

# NORTH TEXAS STATE HOSPITAL - WICHITA FALLS CAMPUS

## MECHANICAL UPGRADE

### BUILDING 700

M & C PROJECT NO. 22-147-WFH



**TEXAS**  
Health and Human  
Services

Texas Health and Human  
Services Commission  
*Maintenance and Construction*



NORTH TEXAS STATE HOSPITAL - WICHITA FALLS  
CAMPUS MECHANICAL UPGRADE  
M & C PROJECT NO. 22-147-WFH

C:\Users\doug\Documents\22009\_AA\_BUILDING\_700\_ddison.rvt  
Plans are protected by the Federal Copyright Act, title XVII of the United States Code and Chapter 37 of the Federal Regulations.  
All listed square footage is approximate and subject to change without notice.

**CONSULTANTS TO THE OWNER**



6300 Ridglea Pl., Ste. 700 Fort Worth, TX 76116  
mail@bhinc.com • (817)338-1277 • bhinc.com  
TBPELS Firm #44, #10011300, #10011302, #10194146  
BHB PROJECT # 2020.012.000

**ARCHITECT / ENGINEER** PHONE No. \_\_\_\_\_  
LES BROWN, PE, LEED AP (682) 348-0772  
SENIOR MECHANICAL ENGINEER



**CAMPUS MAP**

DATE: 08/01/22  
DRAWN BY: BHB  
CHECKED BY: BHB

Project Status  
100% CD  
SUBMITTAL

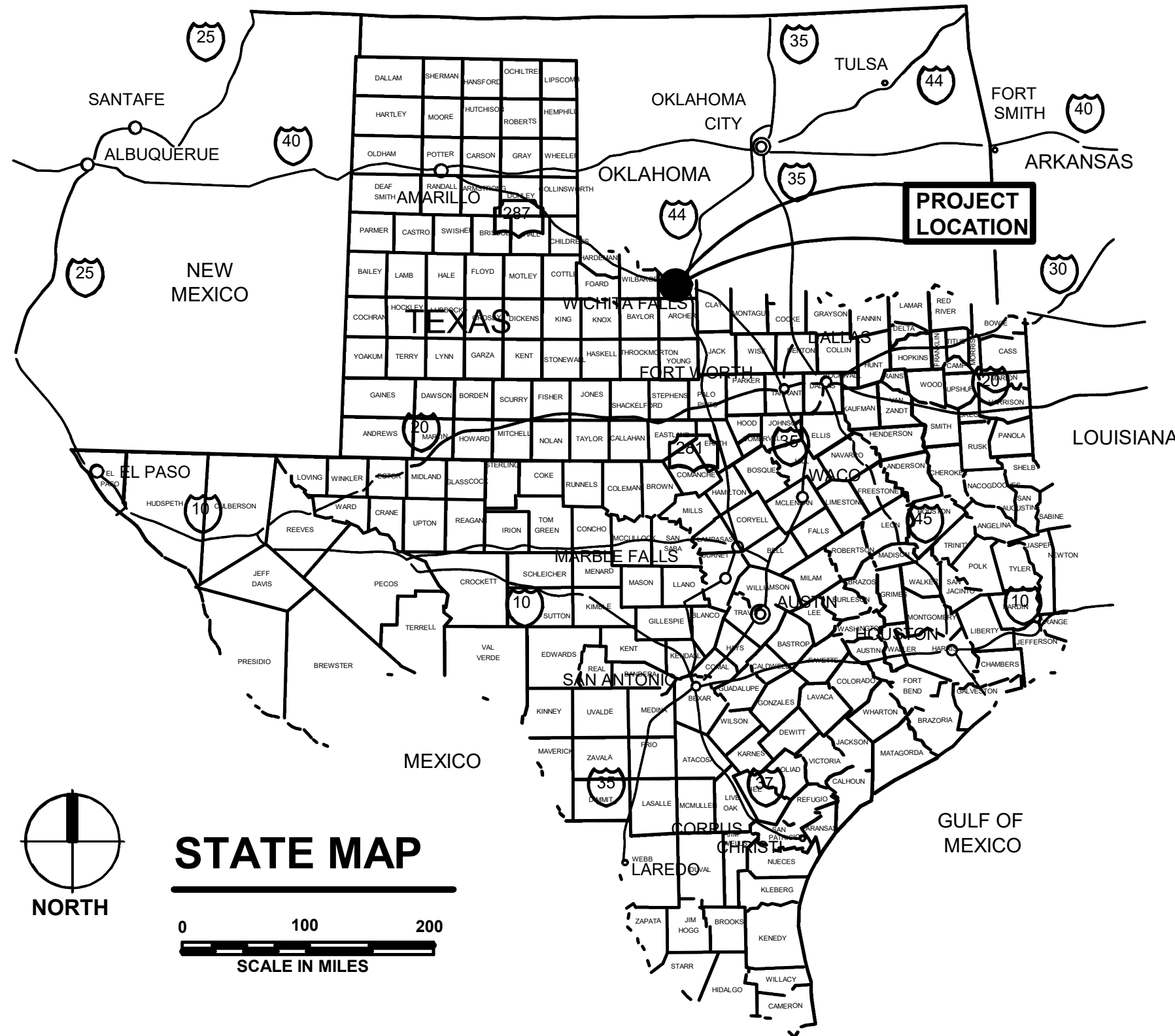
SHEET: \_\_\_\_ OF \_\_\_\_

# PROJECT CONSTRUCTION NOTES

THE PROJECT IS LOCATED IN THE CITY OF WICHITA FALLS, WICHITA COUNTY, STATE OF TEXAS. ALL DESIGN AND CONSTRUCTION WORK SHALL COMPLY WITH APPLICABLE STATUTES, ORDINANCES, REGULATIONS, LAWS AND CODES OF THE ABOVE MENTIONED JURISDICTIONS, AND ALL OTHER APPLICABLE REGULATIONS, REQUIREMENTS CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- |  |                                  |
|--|----------------------------------|
| INTERNATIONAL BUILDING CODE (IBC)  | 2015 EDITION                     |
| NFPA 101, LIFE SAFETY CODE (LSC)   | 2012 EDITION                     |
| NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS                     | 2010 EDITION                     |
| NFPA 72, FIRE ALARM CODE   | 2010 EDITION                     |
| TEXAS ACCESSIBILITY STANDARDS<br>AMERICANS WITH DISABILITIES ACT ACCESSIBILITY | LATEST EDITION<br>LATEST EDITION |

STATE OF TEXAS, AND THE UNITED STATES FEDERAL GOVERNMENT, INCLUDING BUT NOT LIMITED TO OSHA, EPA AND OTHER AUTHORITIES, AGENCIES OR ENTITIES HAVING JURISDICTIONAL AUTHORITY.



## PROJECT LOCATION

6515 KEMP BLVD  
WICHITA FALLS, TEXAS  
WICHITA, COUNTY

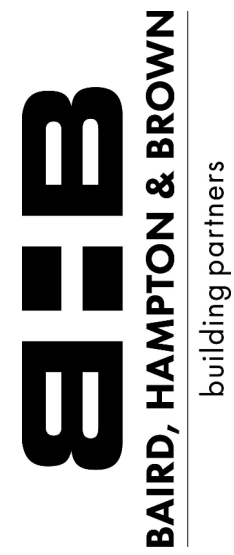
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BHB PROJECT # 2020.02.000

ARCHITECT PROJ NO: 2022.012.000

QC DATE: 08/01/22 BY: CAH



HHSC BUILDING NO:

## INDEX OF DRAWINGS

HHSC PROJ NO: 22-147-WFH

DATE: 08/01/22 REV:

FILE NAME:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPROX SCALE:

DRAWING NUMBER:

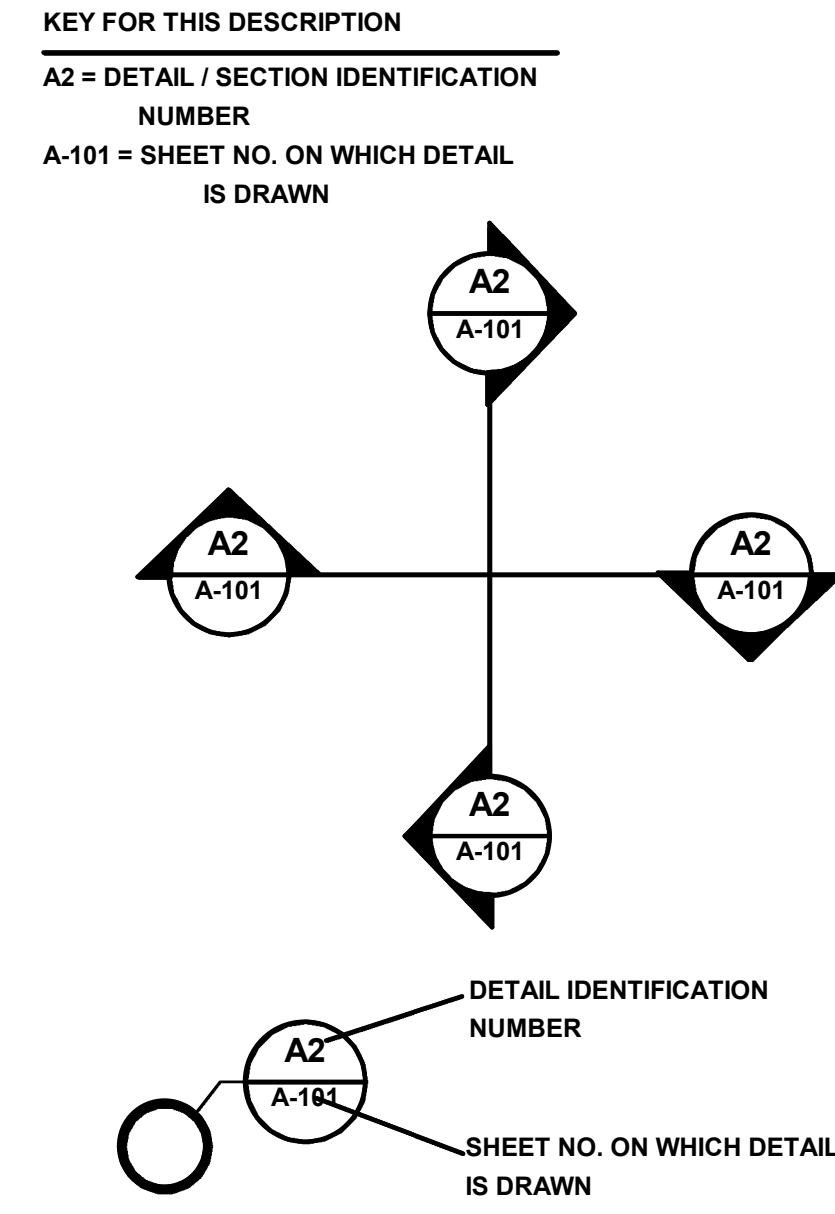
# G-001



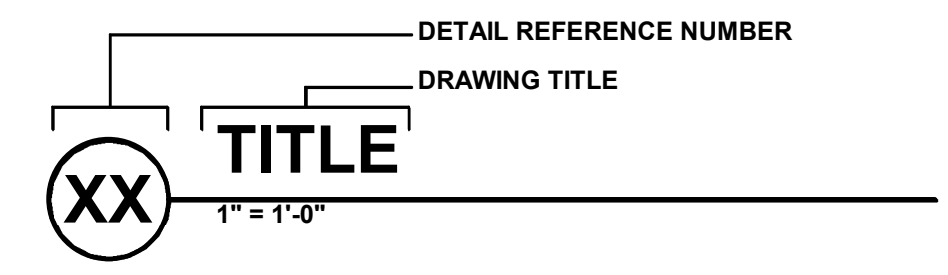
# ABBREVIATIONS LEGEND

A/C - AIR CONDITIONING ACOUST. - ACOUSTICAL ADJ. - ADJUSTABLE A.F.F. - ABOVE FINISH FLOOR ALUM. - ALUMINUM ALT. - ALTERNATE APPROX. - APPROXIMATELY ASB. - ASBESTOS ASPH. - ASPHALT	E. - EAST EA. - EACH E.F. - EACH FACE E.J. - EXPANSION JOINT ELEC. - ELECTRICAL ELEV. - ELEVATION ENCL. - ENCLOSE ETR. - EXISTING TO REMAIN EQ. - EQUAL / EQUIVALENT EQUIP. - EQUIPMENT E.W.C. - ELECTRIC WATER COOLER E.W. - EACH WAY EXH. - EXHAUST EXIST. - EXISTING EXP. - EXPANSION, EXPOSED EXT. - EXTERIOR EXIST. - EXISTING	JAN. - JANITORIAL JT. - JOINT JST. - JOIST	RAD. - RADIUS R.C.P. - REFLECTED CEILING PLAN RECP. - RECEPTACLE REF. - REFERENCE REG. - REGULATOR, REGISTER REINF. - REINFORCED REQ'D. - REQUIRED RESIL. - RESILIENT RESIST. - RESISTANT RET. - RETAINING REV. - REVISION R.H. - RIGHT HAND RM. - ROOM
BB - BASE BID BD. - BOARD BITUM. - BITUMINOUS BLDG. - BUILDING B.N. - BULL NOSE BO - BID OPTION(S) BOTT. - BOTTOM B.O.C. - BACK OF CURB	F.D. - FLOOR DRAIN F.E.B. - FIRE EXTINGUISHER BRACKET F.E.C. - FIRE EXTINGUISHER CABINET F.F. - FINISH FLOOR F.H. - FIRE HYDRANT FIN. - FINISH FIX. - FIXTURE FL. - FLOOR LINE FLR. - FLOOR FLUOR. - FLUORESCENT F.O.B. - FACE OF BRICK F.O.C. - FACE OF CURB FOUND. - FOUNDATION FT. - FOOT, FEET FTG. - FOOTING FUR. - FURNACE FUT. - FUTURE	LAB. - LABORATORY LAV. - LAVATORY L. - LONG, LENGTH L.H. - LEFT HAND L.P. - LIGHT POLE LT. - LIGHT	SAN. - SANITARY SECT. - SECTION S.C. - SOLID CORE SCHED. - SCHEDULED SCR. - SCREEN SEP. - SEPARATE SEQ. - SEQUENCE SERV. - SERVICE SH. - SHEET SIM. - SIMILAR SPEC. - SPECIFICATION SQ. - SQUARE STD. - STANDARD SUP. - SUPPORT SUSP. - SUSPENDED SYM. - SYMBOL SYS. - SYSTEM
Q. - CENTERLINE CAB. - CABINET C.B. - CHALK BOARD C.C. - CENTER TO CENTER CER. - CERAMIC C.F.M. - CUBIC FEET PER MINUTE C.G. - CORNER GUARD CHAM. - CHAMFER C.J. - CONTROL JOINT C.L. - CENTER LINE CLR. - CLEAR CLG. - CEILING CLKG. - CAULKING CLOS. - CLOSURE C.M.U. - CONCRETE MASONRY UNITS COL. - COLUMN COMP. - COMPOSITION CONC. - CONCRETE CONN. - CONNECTION CONST. - CONSTRUCTION CONT. - CONTINUOUS CONTR. - CONTRACTOR CORR. - CORRIDOR C.T. - CERAMIC TILE CTG. - COATING C.W. - COLD WATER	F.D. - FLOOR DRAIN F.E.B. - FIRE EXTINGUISHER BRACKET F.E.C. - FIRE EXTINGUISHER CABINET F.F. - FINISH FLOOR F.H. - FIRE HYDRANT FIN. - FINISH FIX. - FIXTURE FL. - FLOOR LINE FLR. - FLOOR FLUOR. - FLUORESCENT F.O.B. - FACE OF BRICK F.O.C. - FACE OF CURB FOUND. - FOUNDATION FT. - FOOT, FEET FTG. - FOOTING FUR. - FURNACE FUT. - FUTURE	MAINT. - MAINTENANCE MAS. - MASONRY MAT'L - MATERIAL MAX. - MAXIMUM M.E. - MATCH EXISTING MECH. - MECHANICAL MED. - MEDIUM M.E.P. - MECHANICAL/ELECTRICAL/PLUMBING MEZZ. - MEZZANINE MF. - MANIFOLD M.H. - MANHOLE MIN. - MINIMUM, MINUTE MISC. - MISCELLANEOUS MOD. - MODULAR, MODEL MTL. - METAL	T.B.T.&P. - TAPE, BED, TEXTURE & PAINT TEMP. - TEMPERATURE, TEMPORARY THK. - THICK THRSLD. - THRESHOLD T.O.B. - TOP OF BEAM T.O.C. - TOP OF CURB T.W. - TOP OF WALL TYP. - TYPICAL
C. - CENTERLINE CAB. - CABINET C.B. - CHALK BOARD C.C. - CENTER TO CENTER CER. - CERAMIC C.F.M. - CUBIC FEET PER MINUTE C.G. - CORNER GUARD CHAM. - CHAMFER C.J. - CONTROL JOINT C.L. - CENTER LINE CLR. - CLEAR CLG. - CEILING CLKG. - CAULKING CLOS. - CLOSURE C.M.U. - CONCRETE MASONRY UNITS COL. - COLUMN COMP. - COMPOSITION CONC. - CONCRETE CONN. - CONNECTION CONST. - CONSTRUCTION CONT. - CONTINUOUS CONTR. - CONTRACTOR CORR. - CORRIDOR C.T. - CERAMIC TILE CTG. - COATING C.W. - COLD WATER	GA. - GAGE GALV. - GALVANIZED GLAZ. - GLAZED GR. - GRADE GYP. - GYPSUM GWB - GYPSUM WALL BOARD	N. - NORTH N.I.C. - NOT IN THIS CONTRACT NO. - NUMBER N.T.S. - NOT TO SCALE	U.N.O. - UNLESS NOTED OTHERWISE V.E.S. - VINYL EDGE STRIP VEST. - VESTIBULE V.F. - VINYL FABRIC VIN. - VINYL V.S. - VENT STACK V.T.R. - VENT THROUGH ROOF V.W.C. - VINYL WALL COVERING
D.E.B. - DETENTION EASEMENT BOUNDARY DBL. - DOUBLE DEMO - DEMOLITION DTL - DETAIL D.F. - DRINKING FOUNTAIN DIA. - DIAMETER DIAG. - DIAGONAL, DIAGRAM DIM. - DIMENSION DIR. - DIRECT, DIRECTION DISP. - DISPENSER D.L. - DEAD LOAD DN. - DOWN DR. - DOOR D.S. - DOWNSPOUT DWG. - DRAWING	HGT. - HEIGHT H.C. - HOLLOW CORE HCP. - HANDICAPPED HDPE - HIGH-DENSITY POLYETHYLENE HI. - HIGH H.M. - HOLLOW METAL HORIZ. - HORIZONTAL H.P. - HIGH POINT, HORSE POWER HR. - HOUR HTG. - HEATING H.V.A.C. - HEATING/VENTILATION/AIR CONDITIONING H.W. - HOT WATER HWY. - HIGHWAY	PARA. - PARAGRAPH PLAS. LAM. - PLASTIC LAMINATE PH. - PHASE PLYWD. - PLYWOOD POL. - POLISHED P.P. - POLISHED PLATE PR. - PAIR PREC. - PRECAST PRELIM. - PRELIMINARY P.S.F. - POUNDS PER SQUARE FOOT P.S.I. - POUNDS PER SQUARE INCH PT. - POINT P.T.D. - PAPER TOWEL DISPENSER P.V.C. - POLYVINYL CHLORIDE	W/ - WITH W/O - WITHOUT W. - WIDTH W.C. - WATER CLOSET WD. - WOOD WT. - WEIGHT WTR. - WATER W.W.F. - WELDED WIRE FABRIC
	IN. - INCH INCL. - INCLUSIVE, (DES), (DING) INSUL. - INSULATION INT. - INTERIOR INTER. - INTERMEDIATE INV. - INVERT	QTY. - QUANTITY	

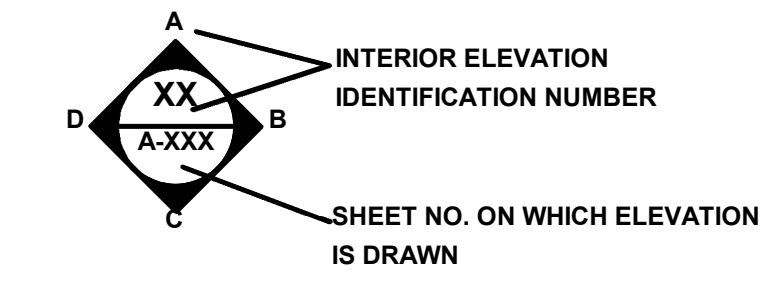
# TYPICAL DTL/SECTION MARKS



# TYPICAL TITLE



# INTERIOR ELEVATION MARK



# REFERENCE SYMBOLS

XXX	ROOM NUMBER
XX	PANEL TYPE
XX XX XX	KEYNOTE - CONDOC SYSTEM
101-101	DOOR NUMBER
7	GRID LINE
XX	PARTITION TYPE
10800.A	TOILET ACCESSORY (REF. SPECIFICATIONS)
FIN. FLR. = 100'-0"	DATUM ELEVATION
xxx.xx	NEW SPOT ELEVATION

# MATERIAL SYMBOLS

	C.M.U. (IN PLAN)
	INSULATION
	CONCRETE PAVING / WALKS
	CONCRETE IN SECTION
	PLYWOOD
	WOOD BLOCKING CONTINUOUS
	WOOD BLOCKING NON-CONTINUOUS



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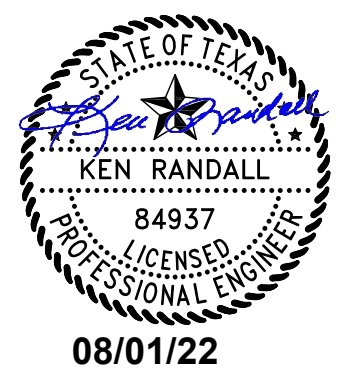
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# GENERAL INFORMATION

HHSC PROJ NO: 22-147-WFH

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FILE NAME:

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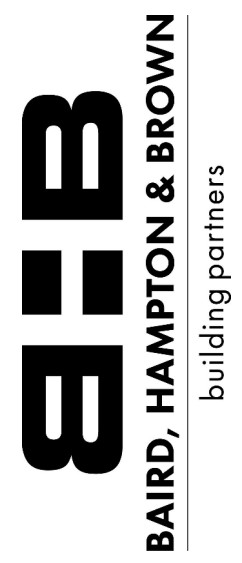
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# G-002

**GENERAL NOTE:**

- COORDINATE WITH FACILITY PERSONNEL (OWNER) FOR SCHEDULING, SEQUENCING, AND LOCATION APPROVAL OF CRANE SET-UP AND OTHER LIFTING OPERATIONS.
- REFER TO AND COMPLY WITH ALL DIVISION 01 SPECIFICATIONS FOR DOCUMENTATION OF EXISTING CONDITIONS, PROJECT COORDINATION, CONSTRUCTION SCHEDULING/SEQUENCING, AND SECURITY/PROTECTION OF EXISTING FACILITIES.

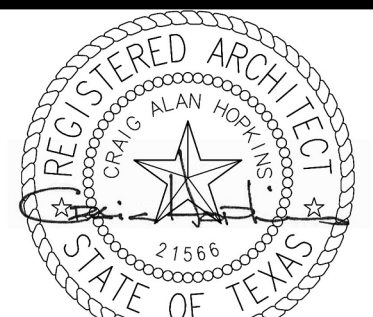
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08/01/22

HHSC BUILDING NO:

**CAMPUS MAP**

HHSC PROJ NO: 22-147-WFH

DATE: 08/01/22 REV:

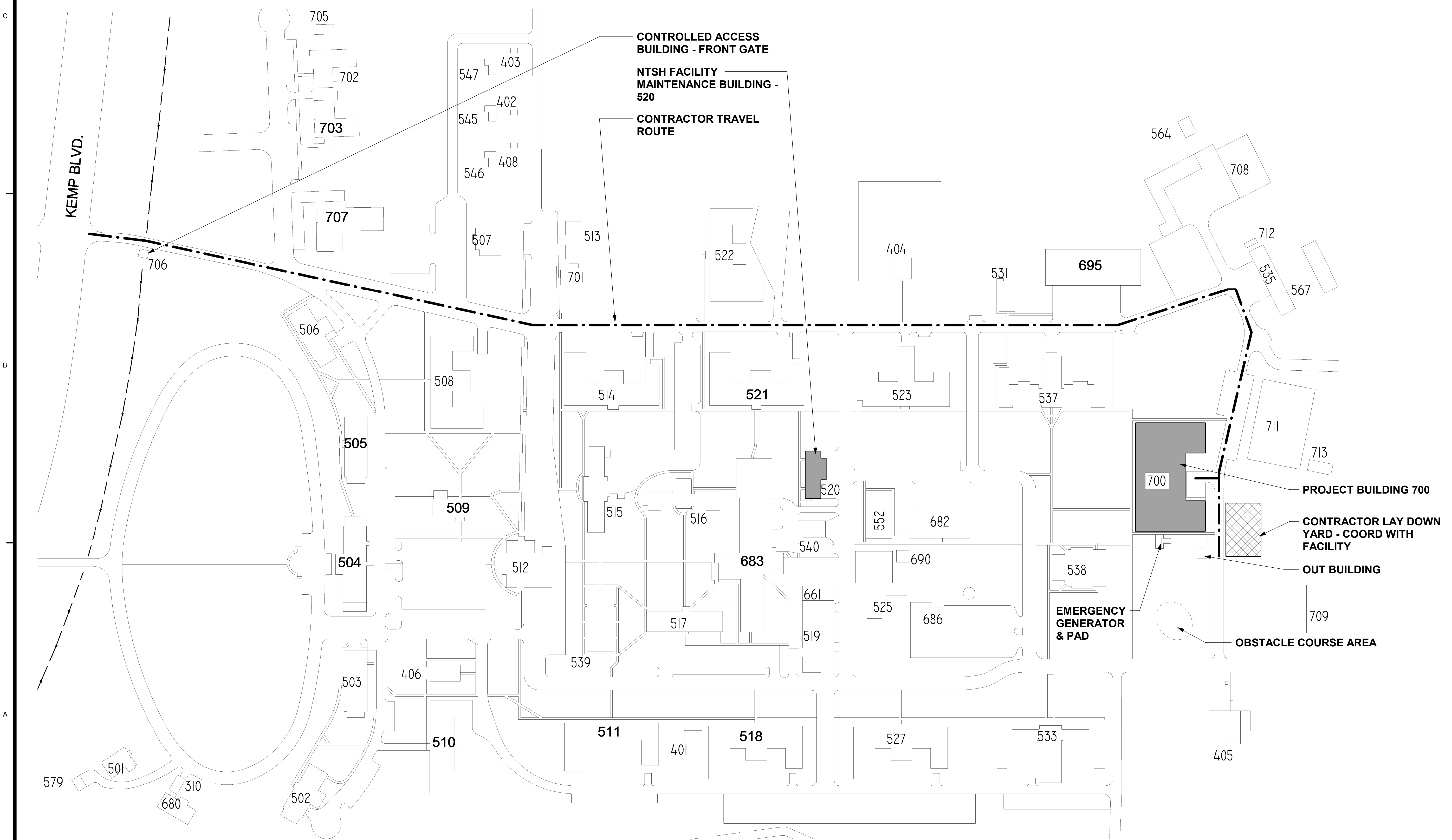
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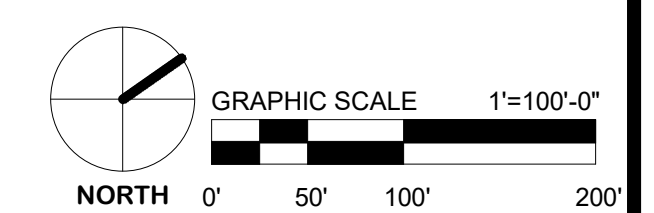
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DRAWING NUMBER:

**G-003**



**A1** CAMPUS MAP  
SCALE: 1" = 100'-0"



**SPECIAL NOTE**

THIS SHEET PROVIDED FOR REFERENCE ONLY. NO FLOOR-LEVEL SCOPE INCLUDED.

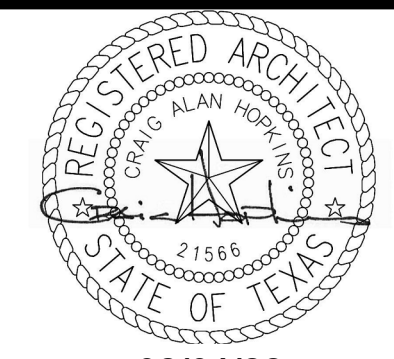
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08/01/22

HHSC BUILDING NO:

**700**

**OVERALL FLOOR PLAN**

HHSC PROJ NO: **22-147-WFH**

DATE: **08/01/22** REV:

FILE NAME:

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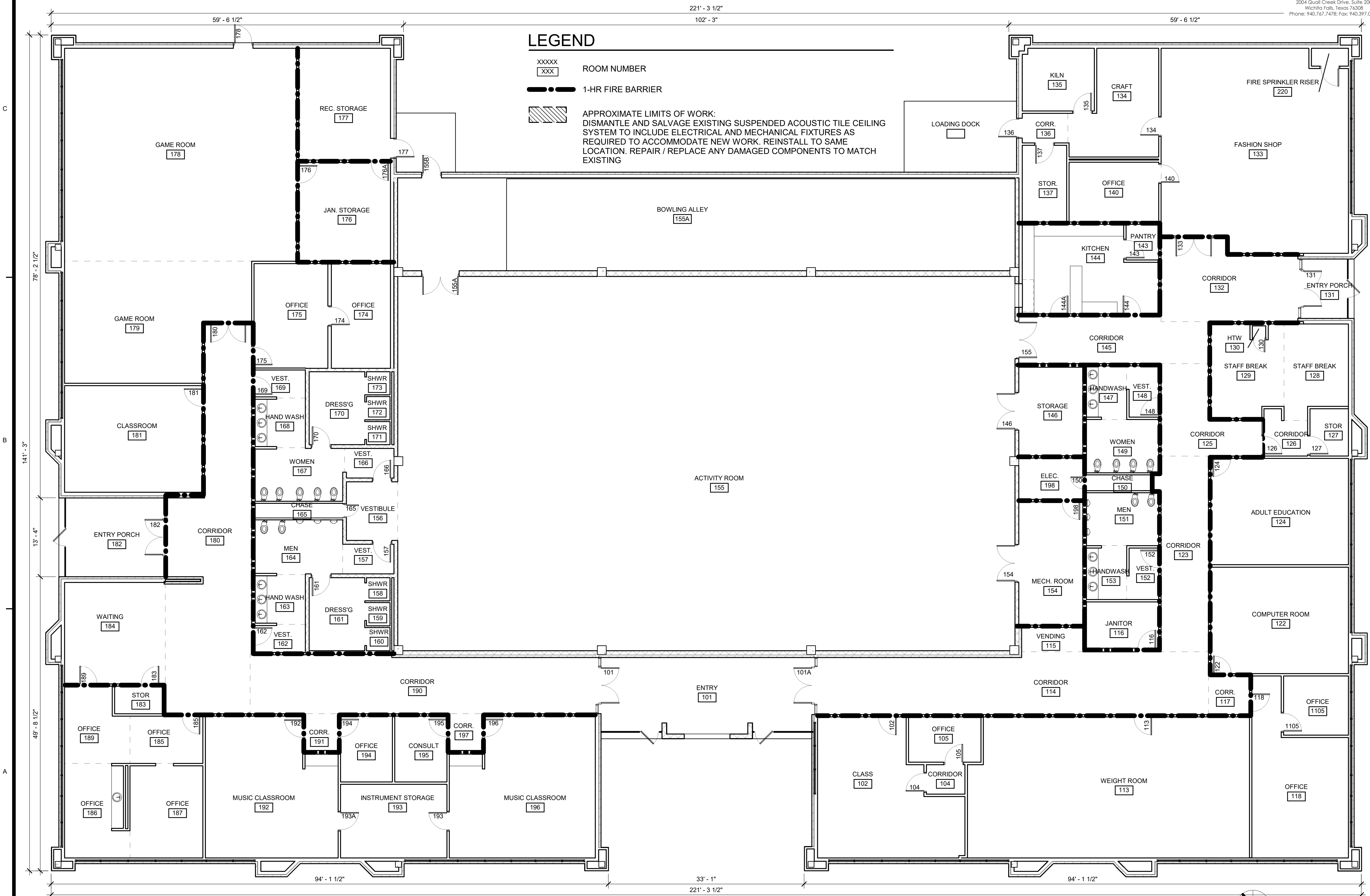
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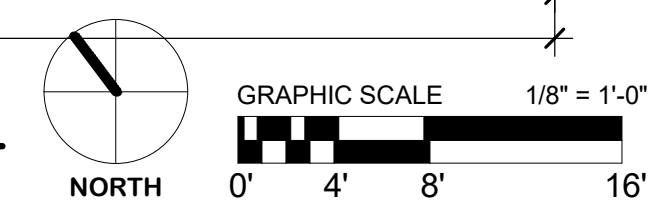
**A-100**

**LEGEND**

- XXXXX ROOM NUMBER
- XXX 1-HR FIRE BARRIER
- APPROXIMATE LIMITS OF WORK: DISMANTLE AND SALVAGE EXISTING SUSPENDED ACOUSTIC TILE CEILING SYSTEM TO INCLUDE ELECTRICAL AND MECHANICAL FIXTURES AS REQUIRED TO ACCOMMODATE NEW WORK. REINSTALL TO SAME LOCATION. REPAIR / REPLACE ANY DAMAGED COMPONENTS TO MATCH EXISTING



**A1 FINISH FLOOR - EXISTING**  
SCALE: 1/8" = 1'-0"





**GENERAL NOTE:**

- HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND ELEMENTS TO BE SELECTIVELY DEMOLISHED. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE WITH THE OWNER FOR REVIEW AND USE.
- CONTRACTOR SHALL EXAMINE REPORT TO BECOME AWARE OF LOCATIONS WHERE HAZARDOUS MATERIALS ARE PRESENT.
- DO NOT DISTURB HAZARDOUS MATERIALS OR ITEMS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS.
- HAZARDOUS MATERIAL REMEDIATION IS NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT AND WILL BE EXECUTED BY OTHERS UNDER SEPARATE CONTRACT.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER AND SEPARATE CONTRACTOR FOR SEQUENCING OF HAZARDOUS MATERIAL REMEDIATION AND ABATEMENT WORK.

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HHSC BUILDING NO:

**700**

**REFLECTED CEILING PLAN - DEMOLITION**

HHSC PROJ NO: 22-147-WFH

DATE: 08/01/22 REV:

FILE NAME:

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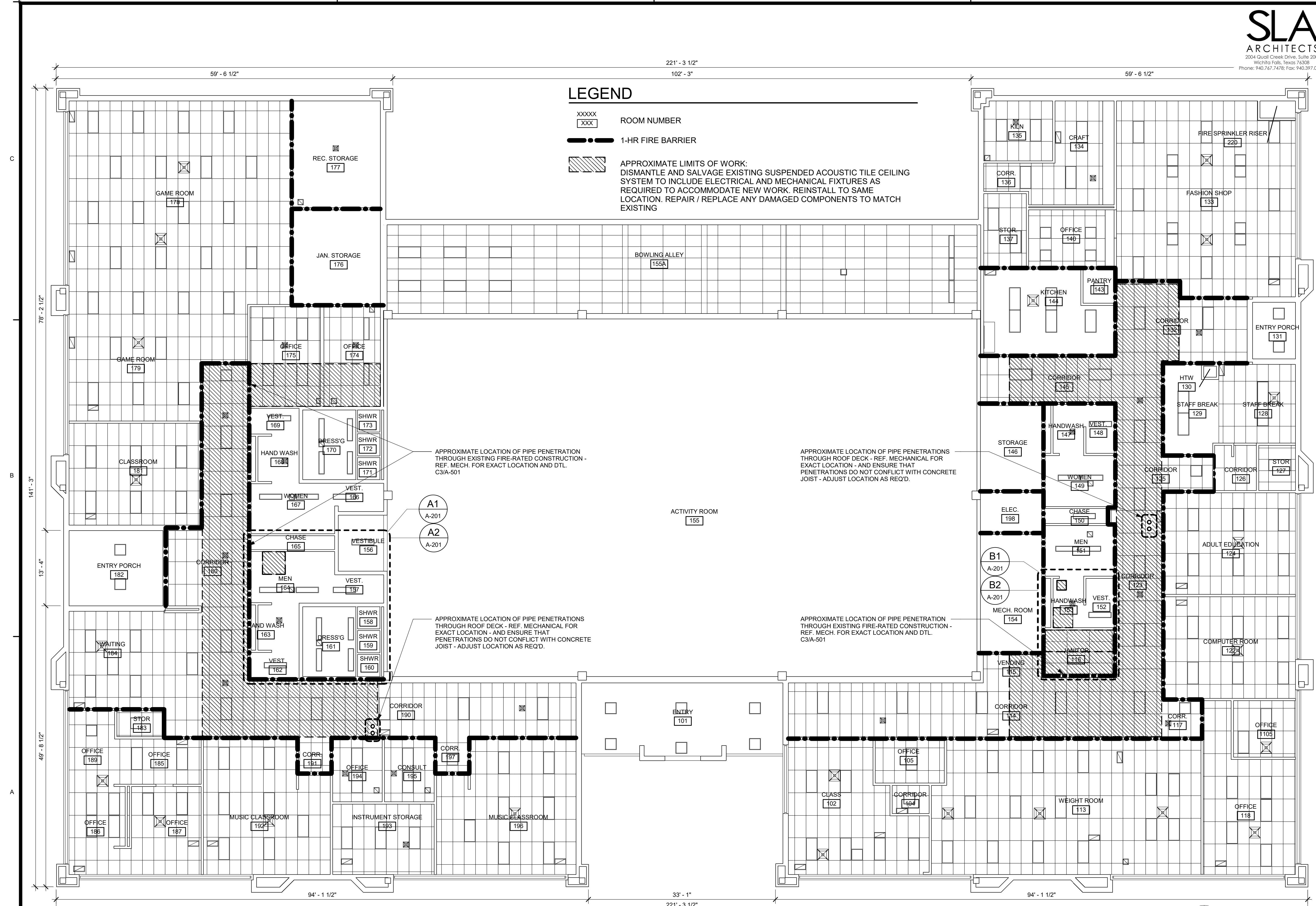
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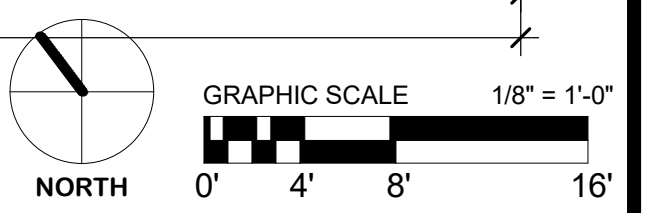
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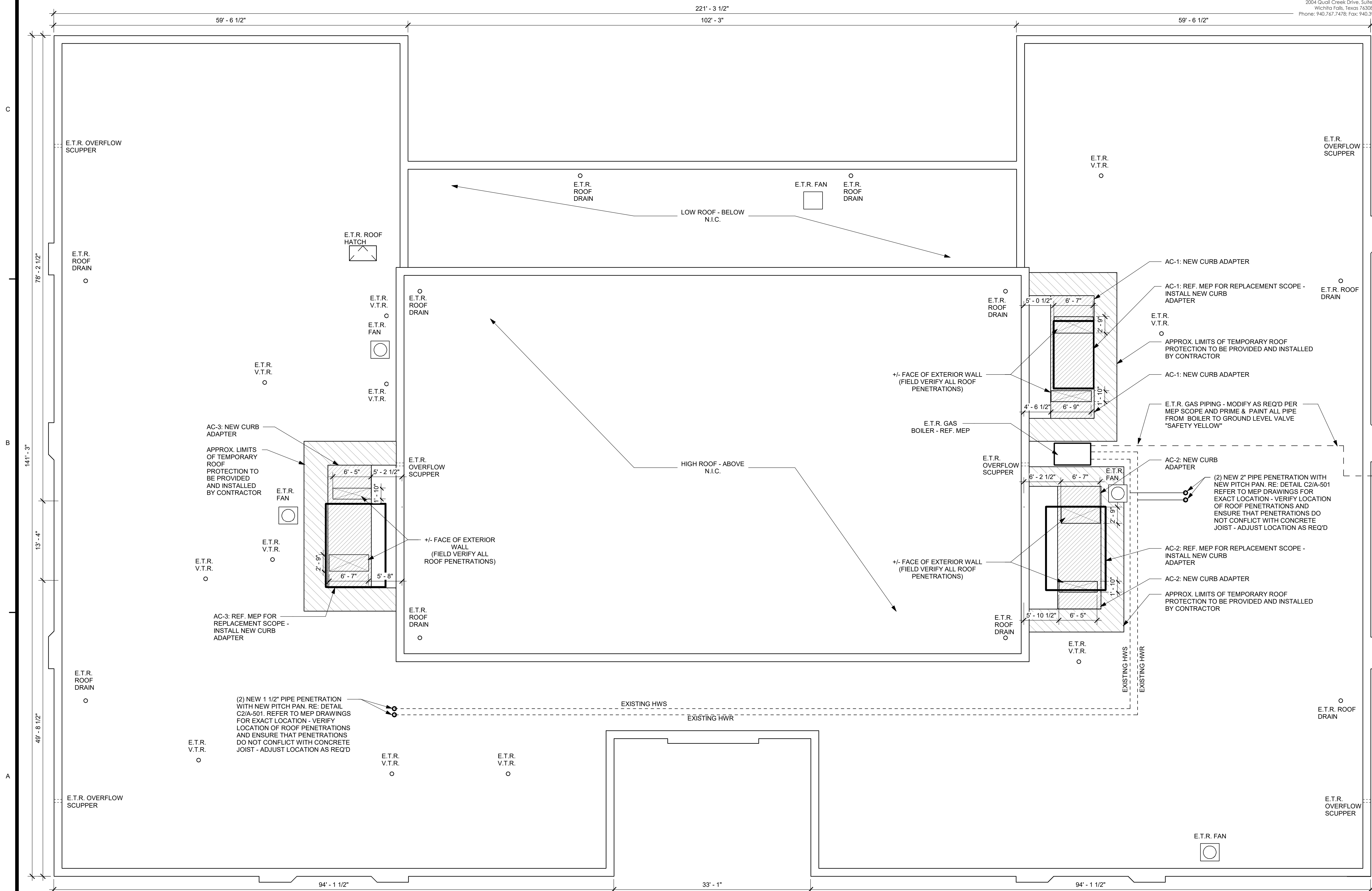
**LEGEND**

- XXXXX ROOM NUMBER
- XXX 1-HR FIRE BARRIER
- APPROXIMATE LIMITS OF WORK: DISMANTLE AND SALVAGE EXISTING SUSPENDED ACOUSTIC TILE CEILING SYSTEM TO INCLUDE ELECTRICAL AND MECHANICAL FIXTURES AS REQUIRED TO ACCOMMODATE NEW WORK. REINSTALL TO SAME LOCATION. REPAIR / REPLACE ANY DAMAGED COMPONENTS TO MATCH EXISTING

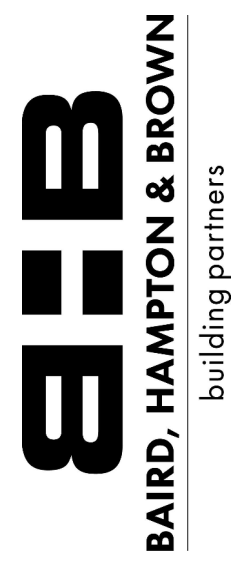


**A1 REFLECTED CEILING PLAN - DEMOLITION**  
SCALE: 1/8" = 1'-0"





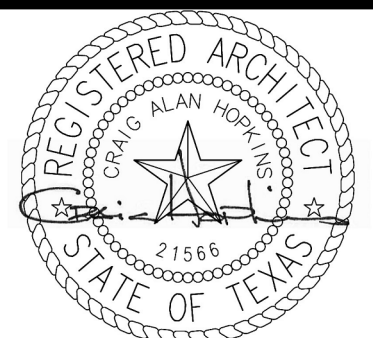
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08/01/22

HHSC BUILDING NO:

**700**  
**ROOF PLAN**

HHSC PROJ NO: 22-147-WFH

DATE: 07/29/22 REV:

FILE NAME:

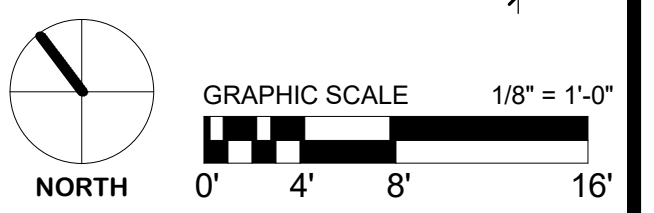
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APPROX SCALE: 1/8" = 1'-0"

DRAWING NUMBER:

**A-102**

**A1** ROOF PLAN  
SCALE: 1/8" = 1'-0"

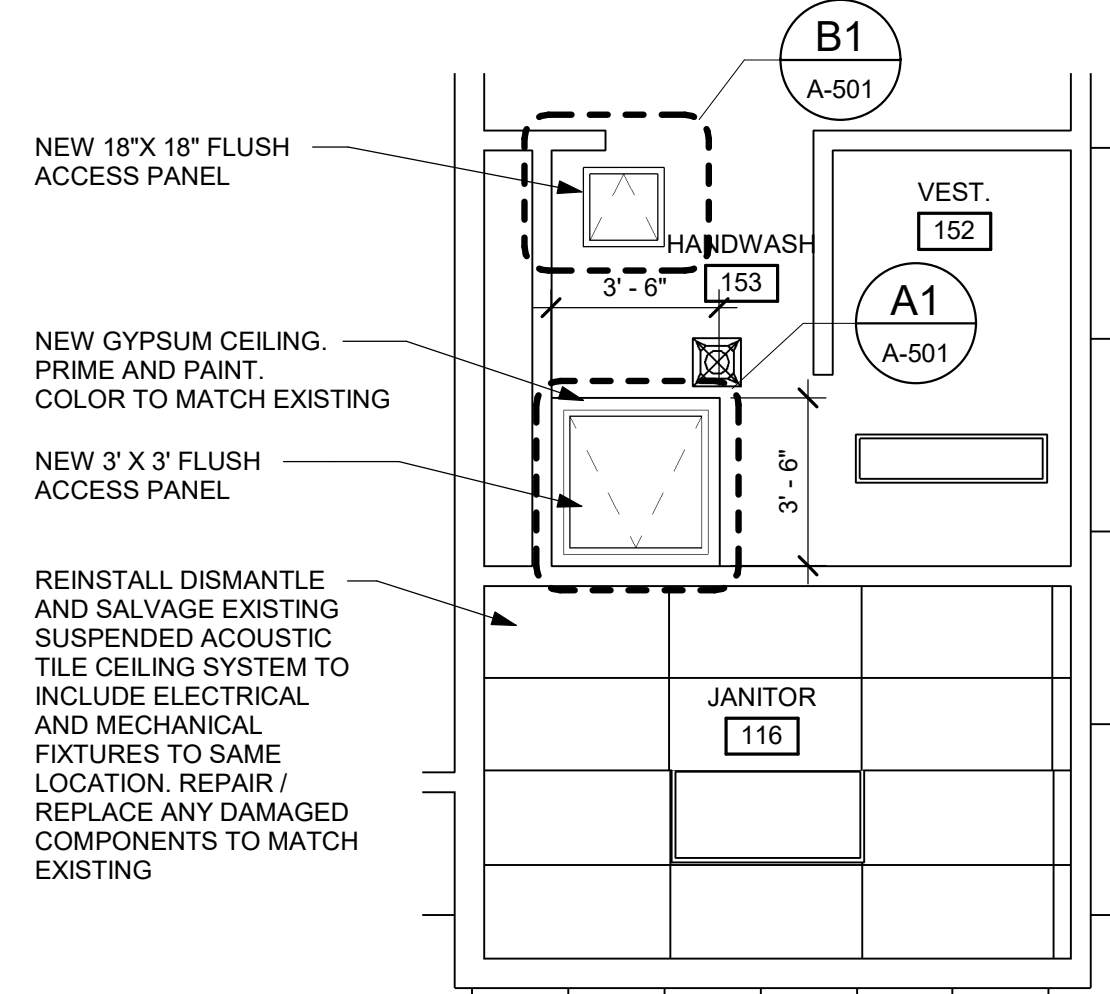
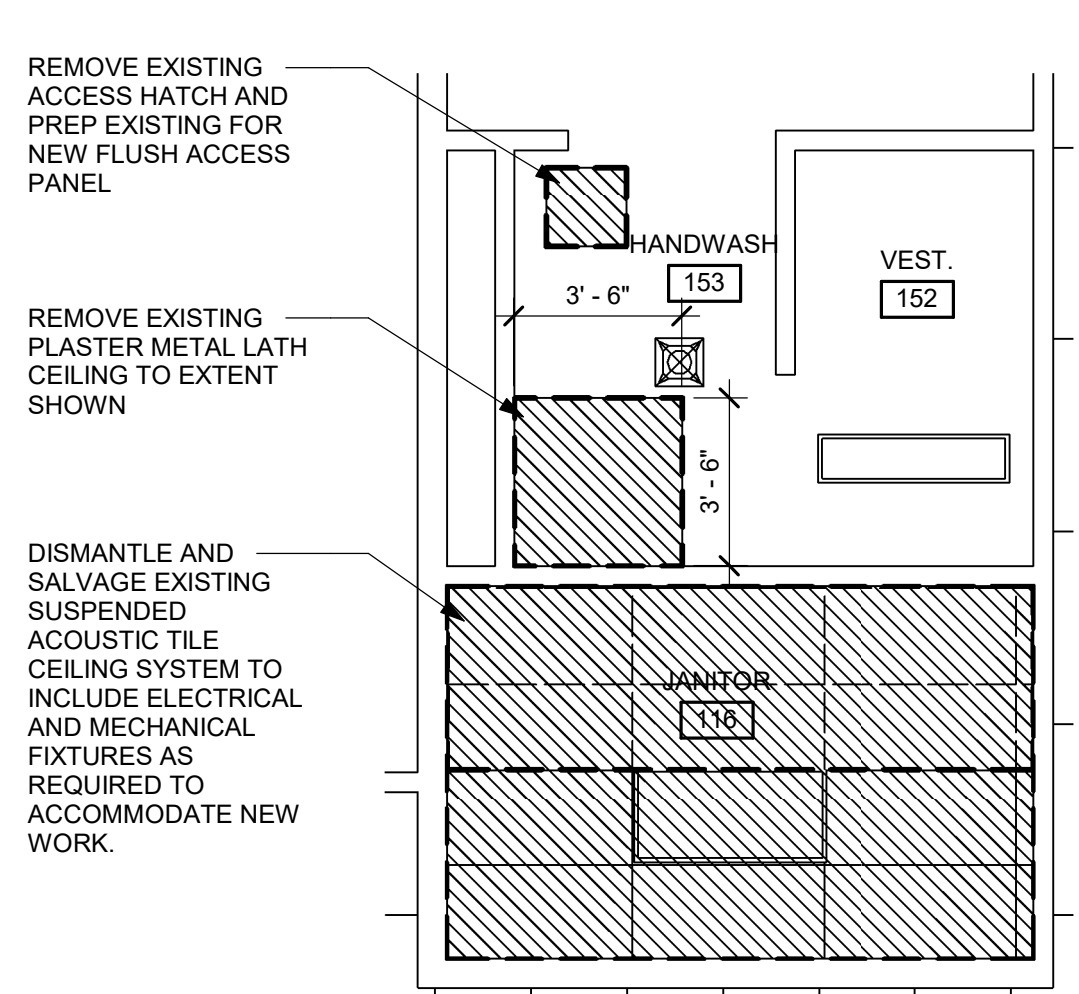


**GENERAL NOTES**

- CONTRACTOR TO VERIFY EXISTING CONSTRUCTION AND COORDINATE WITH THE CONTRACT DOCUMENTS PRIOR TO AND DURING CONSTRUCTION.
  - CONTRACTOR TO NOTIFY THE ARCHITECT & OWNER IMMEDIATELY IN THE EVENT CONDITIONS DIFFER SUBSTANTIALLY FROM THOSE INDICATED IN THE DOCUMENTS.
- DEMOLITION**
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL SUBCONTRACTORS ON DEMOLITION REQUIRED FOR THE VARIOUS DISCIPLINES UNDER THIS CONTRACT.
  - DASHING INDICATES LIMITS OF DEMOLITION. DEMOLITION OF ITEMS INDICATED ON PLANS REFERS TO THE ITEM AND ITS RELATED ASSEMBLIES UNLESS NOTED OTHERWISE.
  - PROVIDE AND INSTALL ADEQUATE SHORING OF ALL EXISTING LOAD BEARING CONSTRUCTION AS REQUIRED FOR THE BUILDING TO REMAIN STRUCTURALLY SOUND UNTIL NEW CONSTRUCTION IS IN PLACE.
  - ALL AREAS WHERE DEMOLITION HAS OCCURRED OR WHERE ITEMS WERE REMOVED SHALL BE REPAIRED, AS INDICATED ON THESE DOCUMENTS OR BY USING MATERIALS SIMILAR TO MATERIALS ADJACENT TO THE DEMOLISHED OR DISTURBED AREA. THE REPAIR SHALL PROVIDE A FINISHED APPEARANCE, SUCH THAT IT IS NOT READILY APPARENT, THAT IT HAS BEEN ALTERED OR DISTURBED.
  - THE OWNER RETAINS FIRST RIGHTS OR REFUSAL OF ALL ITEMS REMOVED DURING DEMOLITION.
- HAZARDOUS MATERIALS**
- HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND ELEMENTS TO BE SELECTIVELY DEMOLISHED. A REPORT ON THE PRESENCE OF HAZARDOUS MATERIALS IS ON FILE WITH THE OWNER FOR REVIEW AND USE.
  - CONTRACTOR SHALL EXAMINE REPORT TO BECOME AWARE OF LOCATIONS WHERE HAZARDOUS MATERIALS ARE PRESENT.
  - DO NOT DISTURB HAZARDOUS MATERIALS OR ITEMS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS.
  - HAZARDOUS MATERIAL REMEDIATION IS NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT AND WILL BE EXECUTED BY OTHERS UNDER SEPARATE CONTRACT.
  - CONTRACTOR SHALL COORDINATE WITH THE OWNER AND SEPARATE CONTRACTOR FOR SEQUENCING OF HAZARDOUS MATERIAL REMEDIATION AND ABATEMENT WORK.
- NEW CONSTRUCTION**
- ALL DIMENSIONS ARE TO FACE OF FINISH, FACE OF MASONRY OR CENTER LINE OF COLUMNS UNLESS OTHERWISE NOTED

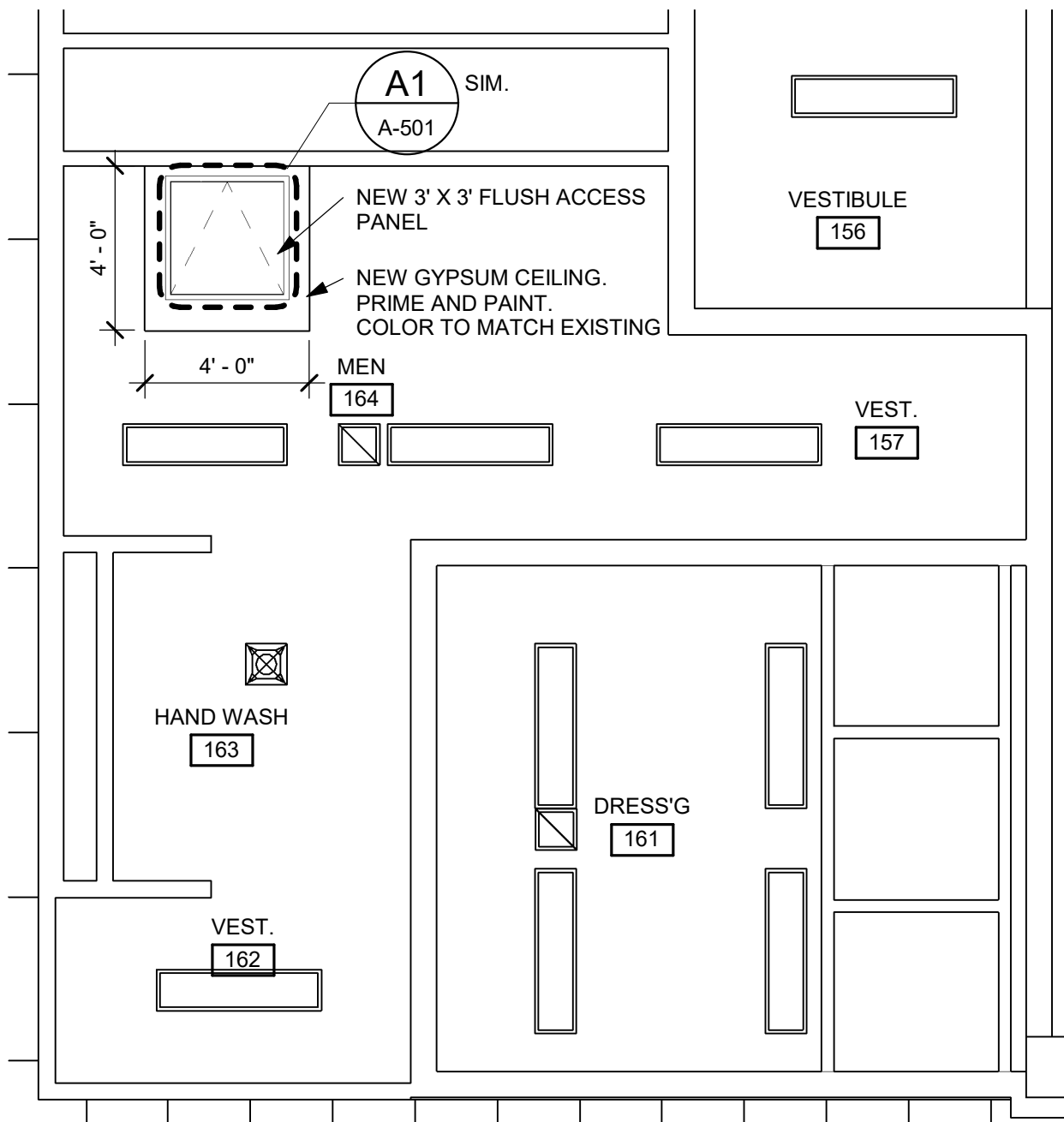
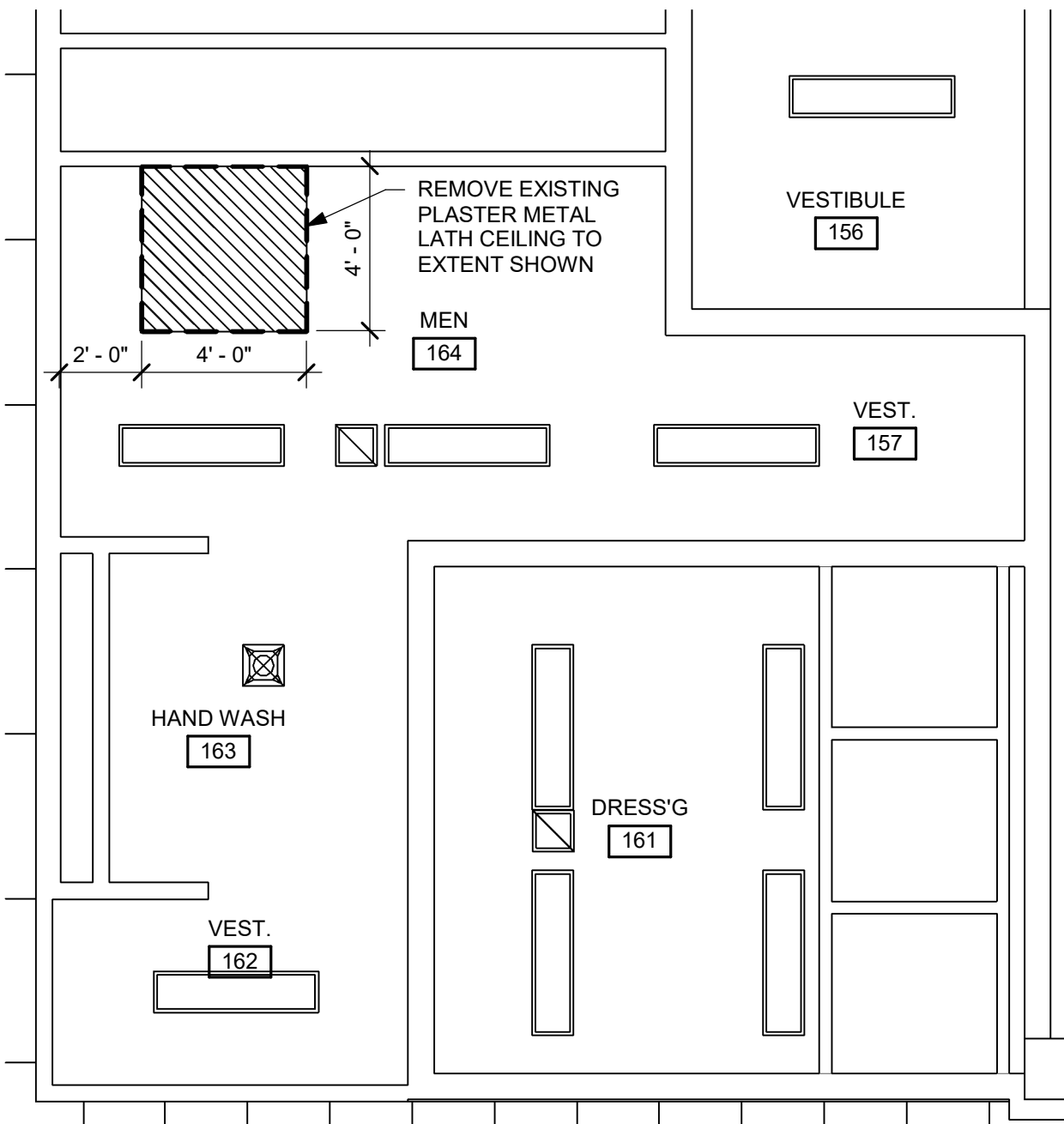
**LEGEND**

- XXXXX ROOM NUMBER
- XXX 1-HR FIRE BARRIER
- [Hatched Box] LIMITS OF DEMOLITION. DISMANTLE AND SALVAGE EXISTING SUSPENDED ACOUSTIC TILE CEILING SYSTEM TO INCLUDE ELECTRICAL AND MECHANICAL FIXTURES



**B1** ROOM 151 - DEMOLITION  
SCALE: 1/4" = 1'-0"

**B2** ROOM 151 - NEW CONSTRUCTION  
SCALE: 1/4" = 1'-0"



**A1** ROOM 164 - DEMOLITION  
SCALE: 1/4" = 1'-0"

**A2** ROOM 164 - NEW CONSTRUCTION  
SCALE: 1/4" = 1'-0"

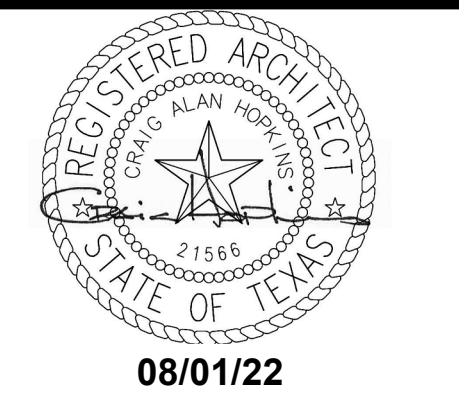
**MANAGING CONSULTANT:**

**BHB**  
BAIRD, HAMPTON & BROWN  
building partners

6300 Ridgela Pl., Ste. 700 Fort Worth, TX 76116  
mh@bhbc.com • (817) 538-1277 • bhbc.com  
TBP/ELS Firm #44, #10013300, #10013302, #10194146  
BHB PROJECT # 2020.02.000

ARCHITECT PROJ NO: 2022.012.000

QC DATE: 08/01/22 BY: CAH



HHSC BUILDING NO:  
**700**  
**ENLARGED FLOOR PLANS**

HHSC PROJ NO: 22-147-WFH

DATE: 08/01/22 REV:

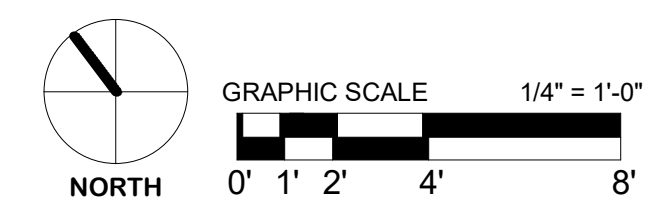
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APPROX SCALE: **As indicated**

DRAWING NUMBER:

**A-201**





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BHB PROJECT # 2020.02.000

ARCHITECT PROJ NO: 2022.012.000

QC DATE: 08/01/22 BY: CAH



08/01/22

HHSC BUILDING NO:

**MISC. DETAILS**

HHSC PROJ NO: 22-147-WFH

DATE: 08/01/22 REV:

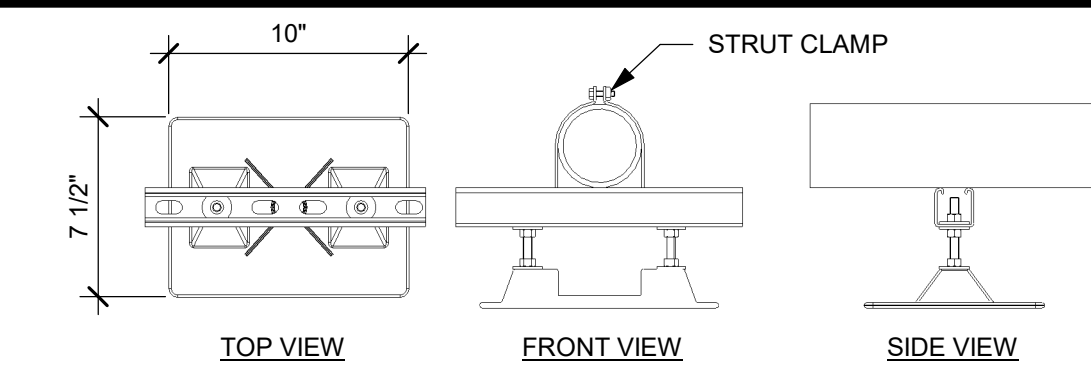
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APPROX SCALE: As indicated

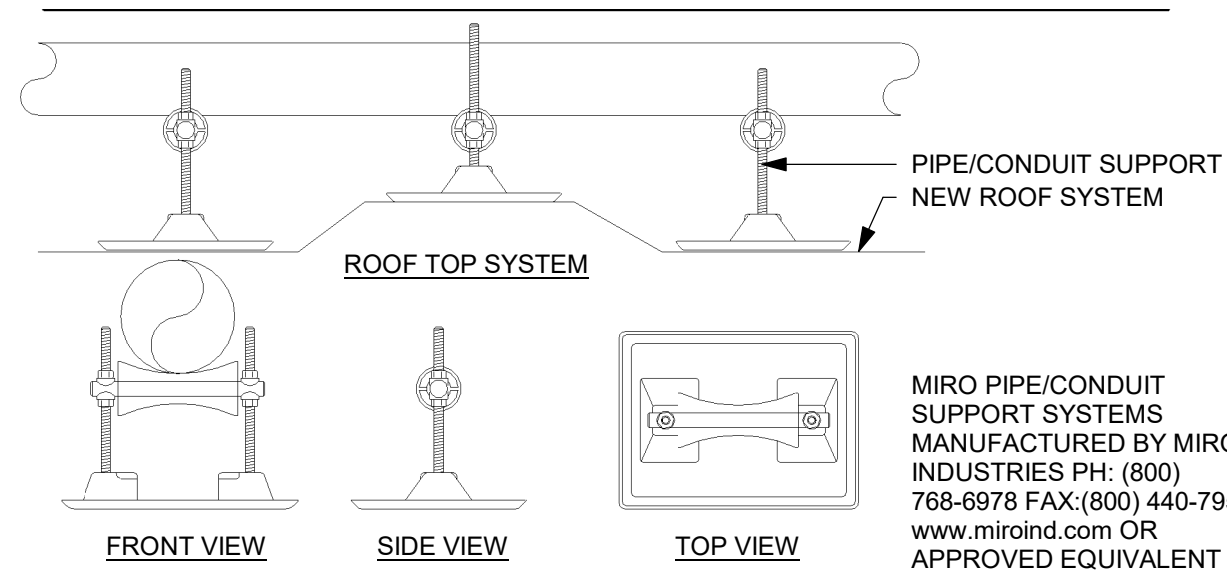
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**A-501**



**MIRO MODEL 2.5-CONDUIT SUPPORT 5, BASE 7.5\"/>**

**ELECTRICAL CONDUIT SUPPORTS**

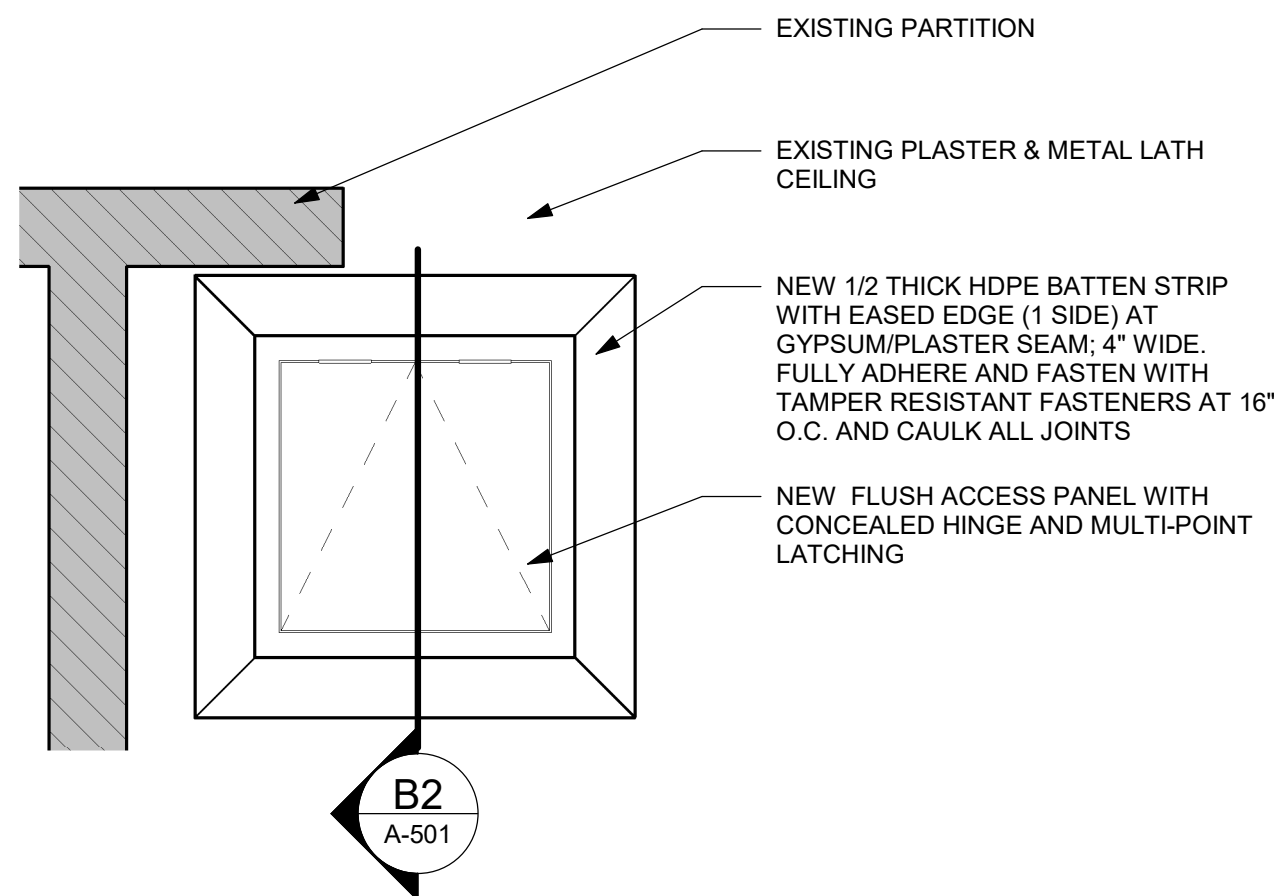


**MIRO MODEL 5-RAH, BASE 9\"/>**

**GAS/HYDRO PIPING SUPPORTS**

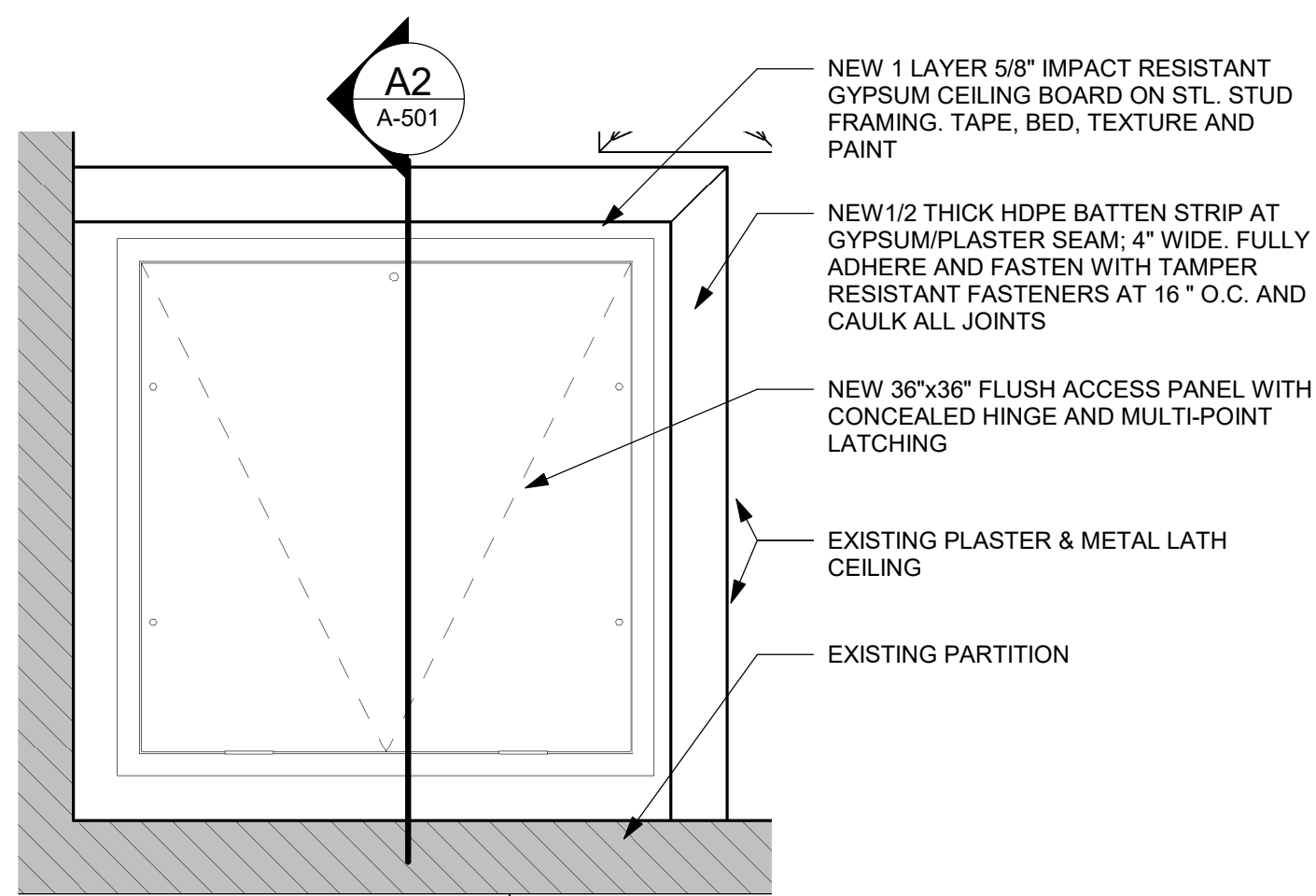
**C1 PIPE SUPPORT DETAILS**

SCALE: 1 1/2\"/>



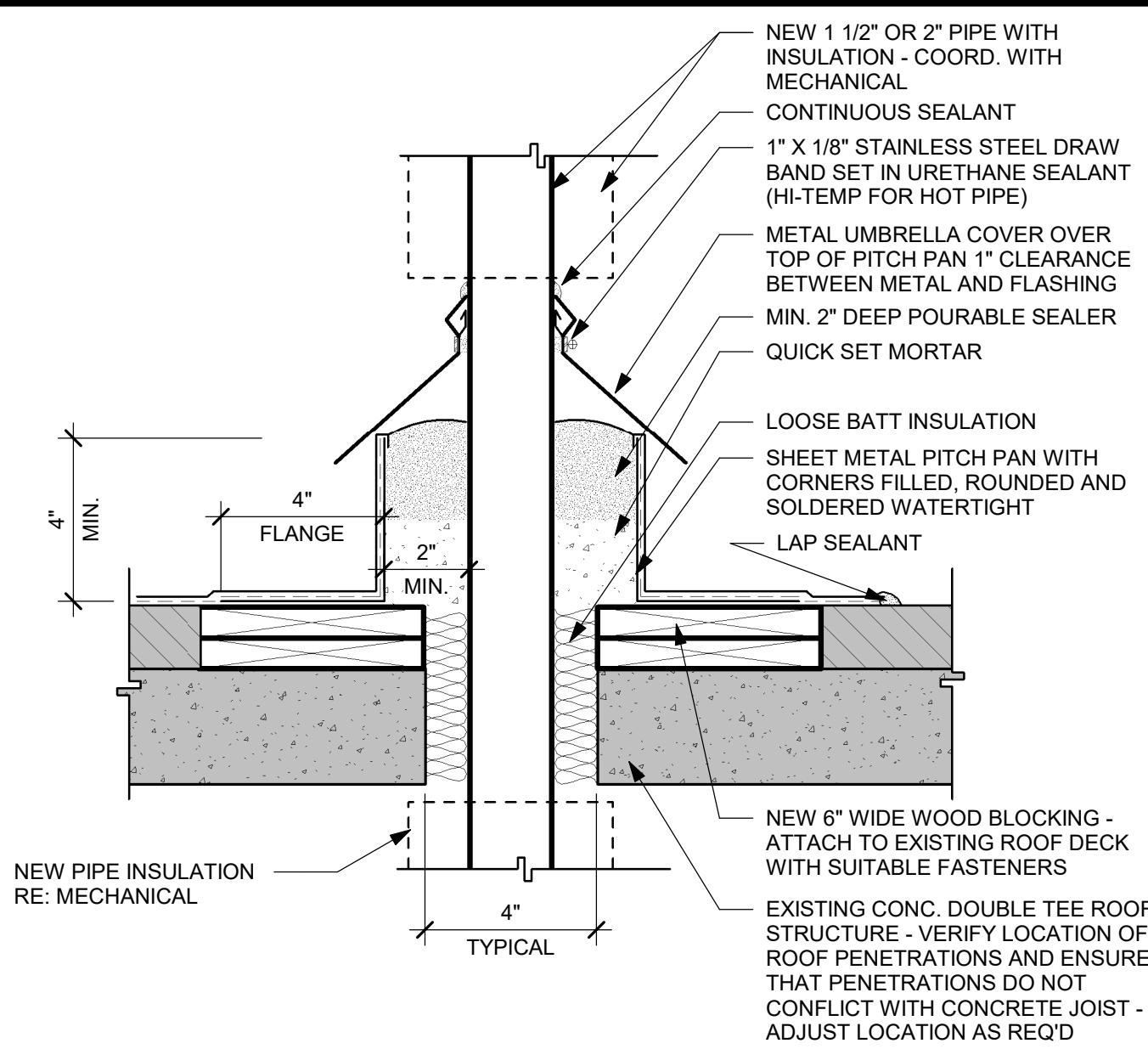
**B1 RCP - CEILING ACCESS PANEL**

SCALE: 1\"/>



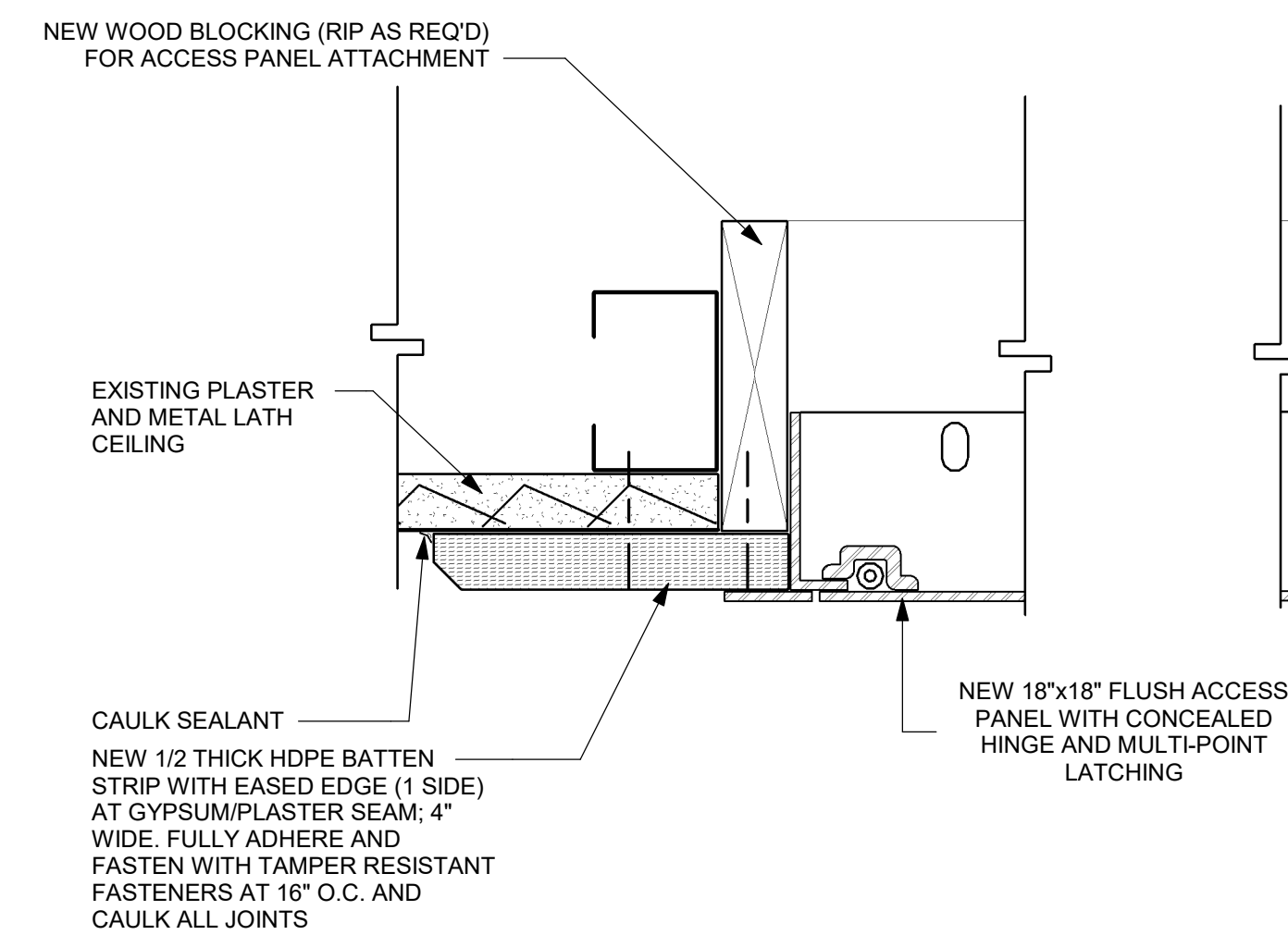
**A1 RCP - CEILING ACCESS PANEL**

SCALE: 1\"/>



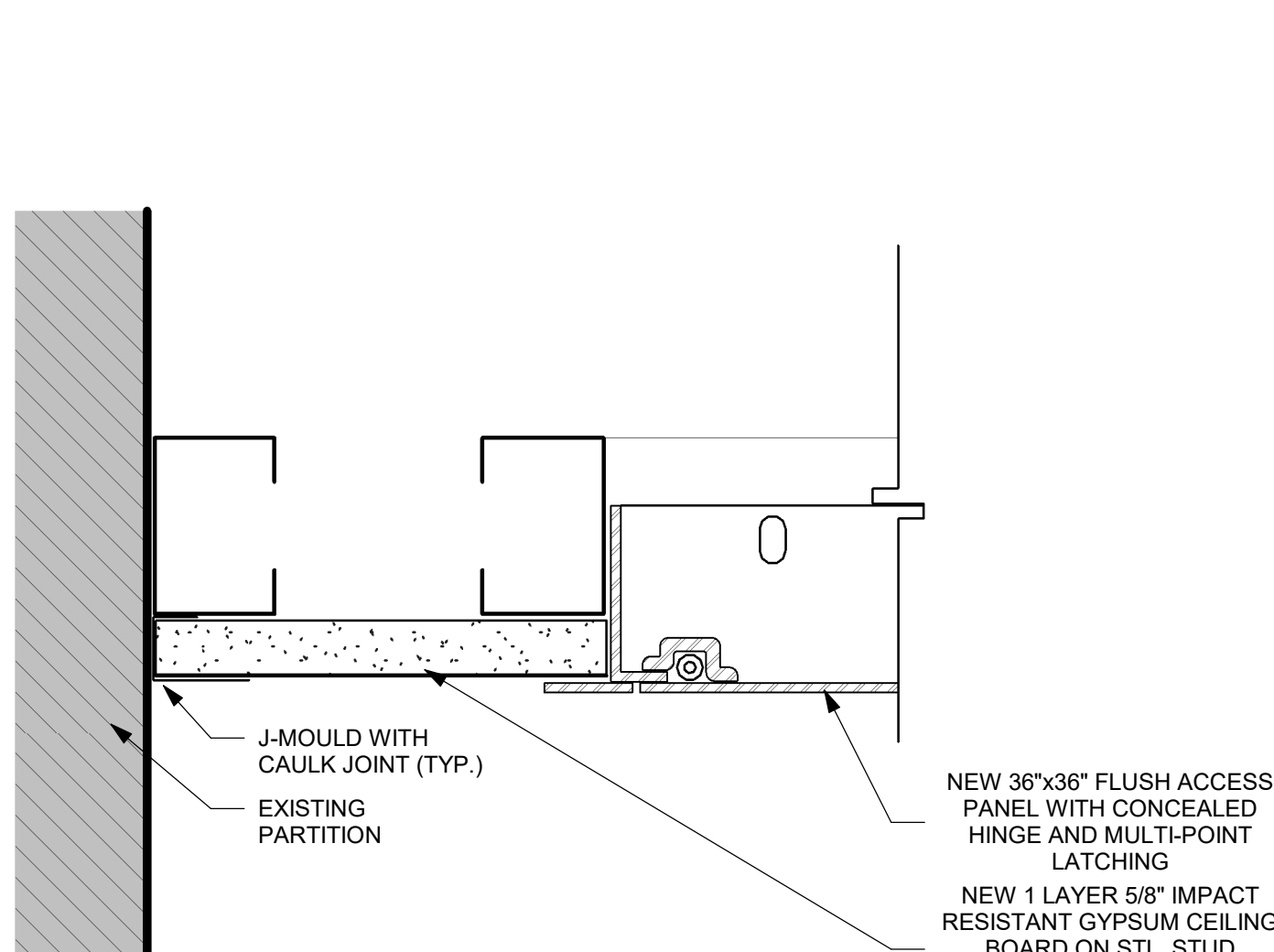
**C2 PITCH PAN AT NEW ROOF PENETRATION**

SCALE: 3\"/>



**B2 NEW CEILING ACCESS PANEL DETAILS**

SCALE: 6\"/>



**A2 NEW CEILING ACCESS PANEL DETAILS**

SCALE: 6\"/>

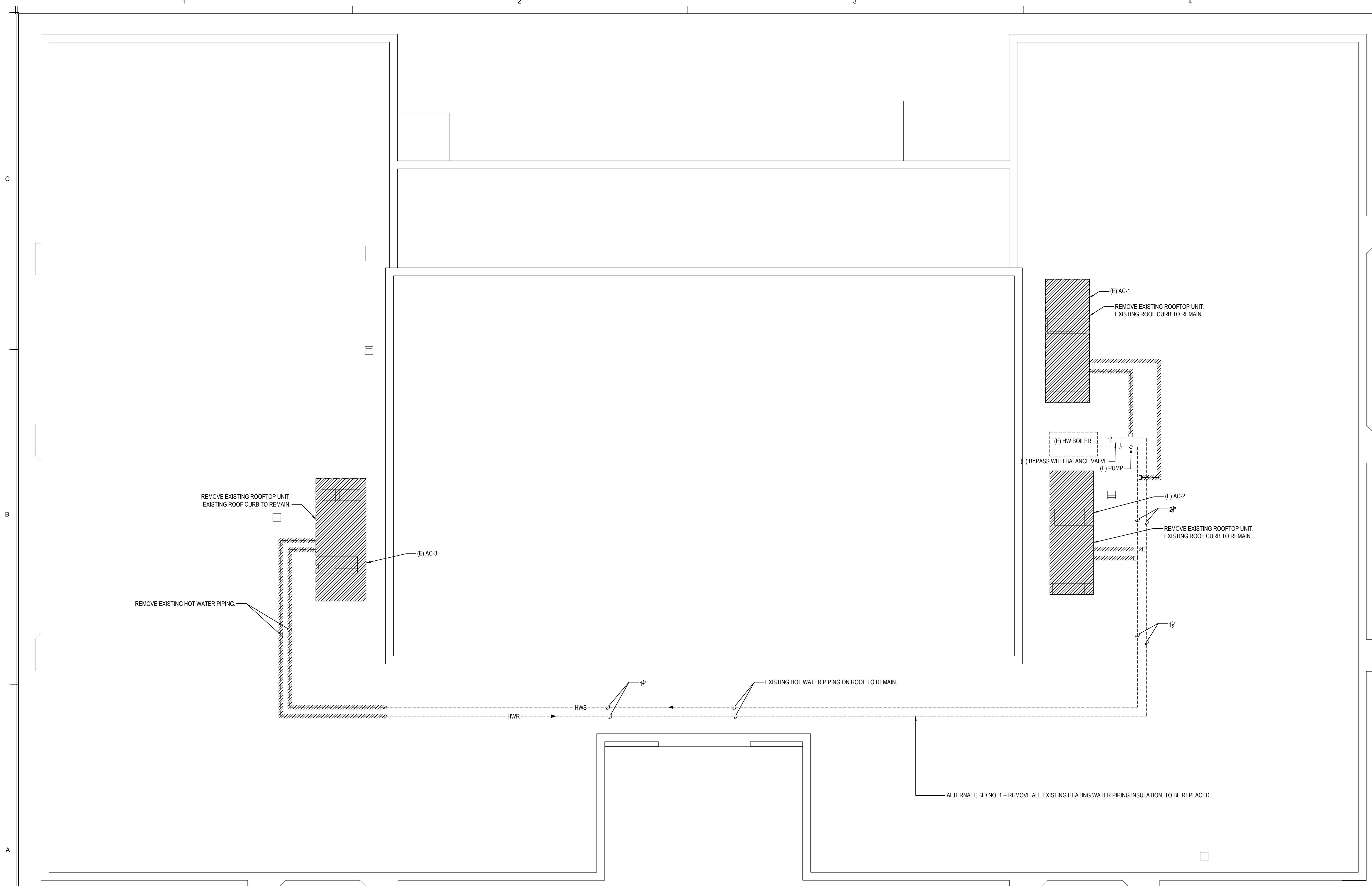
**C3 INSULATED PIPE PENETRATION - 1 & 2 HOUR**

SCALE: 1 1/2\"/>

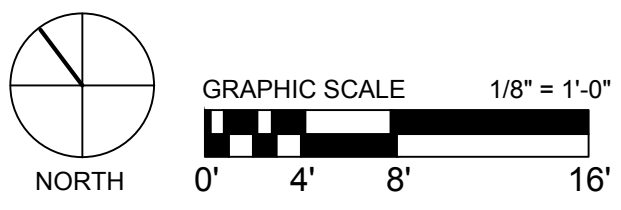


U.L. ASSEMBLY: 1479  
HILTI SYSTEM NO.: W-L-5029

SECTION



**M1** DEMOLITION ROOF PLAN - MECHANICAL  
SCALE: 1/8" = 1'-0"



- GENERAL NOTE:**
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**MANAGING CONSULTANT:**

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TBP/ELS Firm #44, #10011300, #10011302, #10164146  
BHB PROJECT # 2020121000

PROJ NO: 2022.012.000

QC DATE: 08/01/22 BY: LB



HHSC BUILDING NO:  
**700**  
**DEMOLITION - MECHANICAL ROOF PLAN**

HHSC PROJ NO: 22-147-WFH

DATE 08/01/22 REV:

FILE NAME:

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

DRAWING NUMBER:

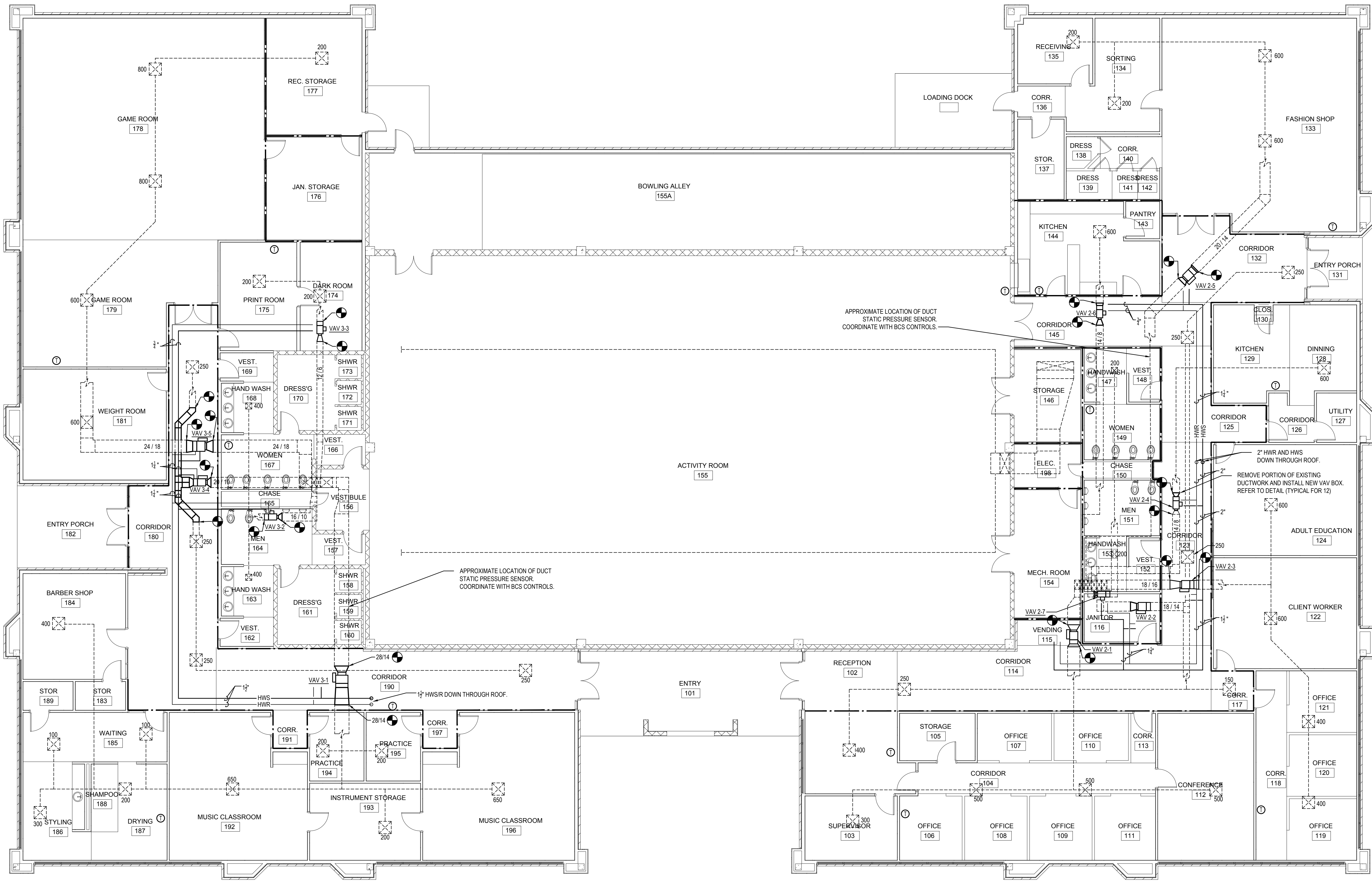
**MD-101**



C

B

A

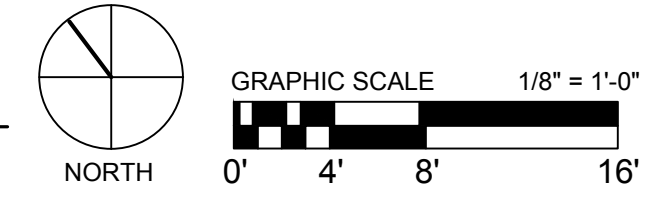


APPROXIMATE LOCATION OF DUCT  
STATIC PRESSURE SENSOR.  
COORDINATE WITH BCS CONTROLS.

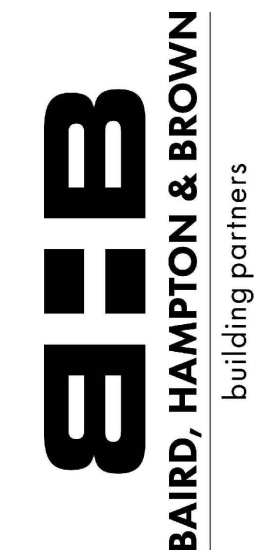
APPROXIMATE LOCATION OF DUCT  
STATIC PRESSURE SENSOR.  
COORDINATE WITH BCS CONTROLS.

2" HWR AND HWS  
DOWN THROUGH ROOF.  
REMOVE PORTION OF EXISTING  
DUCTWORK AND INSTALL NEW VAV BOX.  
REFER TO DETAIL (TYPICAL FOR 12)

**M1 FLOOR PLAN - MECHANICAL**  
SCALE: 1/8" = 1'-0"



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BHB PROJECT # 2020102000

PROJ NO: 2022.012.000

QC DATE: 08/01/22 BY: LB



HHSC BUILDING NO:  
**700**  
**MECHANICAL**  
**FLOOR PLAN**

HHSC PROJ NO: 22-147-WFH

DATE 08/01/22 REV:

FILE NAME:

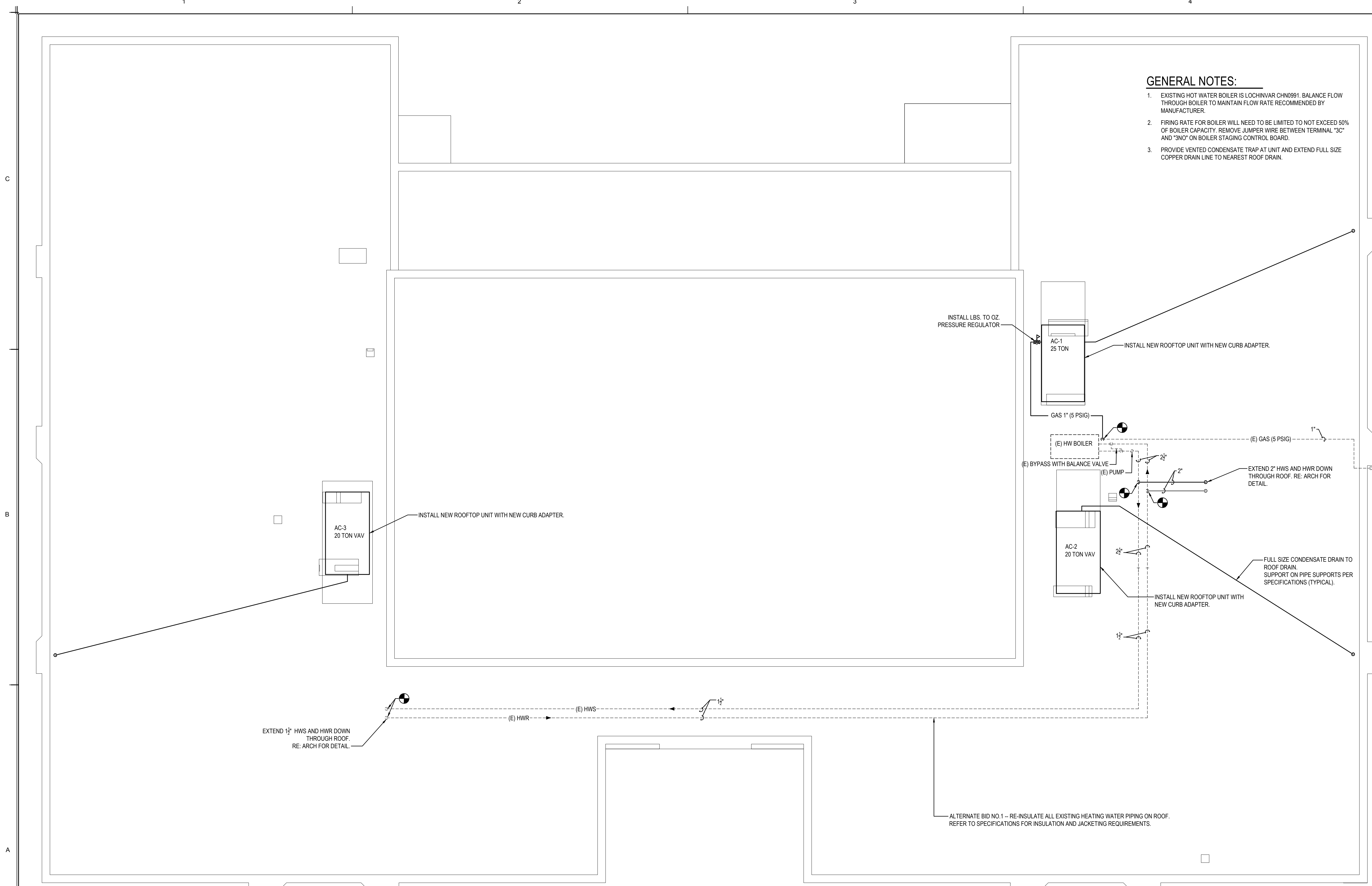
VERIFY SCALE  
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APPROX SCALE: 1/8" = 1'-0"

DRAWING NUMBER:

**M-101**





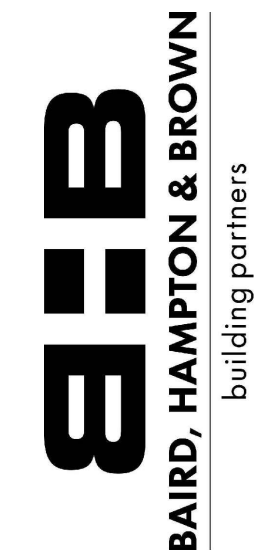
**GENERAL NOTES:**

- EXISTING HOT WATER BOILER IS LOCHINVAR CHN0991. BALANCE FLOW THROUGH BOILER TO MAINTAIN FLOW RATE RECOMMENDED BY MANUFACTURER.
- FIRING RATE FOR BOILER WILL NEED TO BE LIMITED TO NOT EXCEED 50% OF BOILER CAPACITY. REMOVE JUMPER WIRE BETWEEN TERMINAL "3C" AND "3NO" ON BOILER STAGING CONTROL BOARD.
- PROVIDE VENTED CONDENSATE TRAP AT UNIT AND EXTEND FULL SIZE COPPER DRAIN LINE TO NEAREST ROOF DRAIN.



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TBPELS Firm #44, #10011300, #10011302, #10164146  
BHB PROJECT # 2020121000

PROJ NO: **2022.012.000**

QC DATE: **08/01/22** BY: **LB**



HHSC BUILDING NO:

**700**  
**ROOF PLAN**  
**MECHANICAL**

HHSC PROJ NO: **22-147-WFH**

DATE **08/01/22** REV:

FILE NAME:

VERIFY SCALE  
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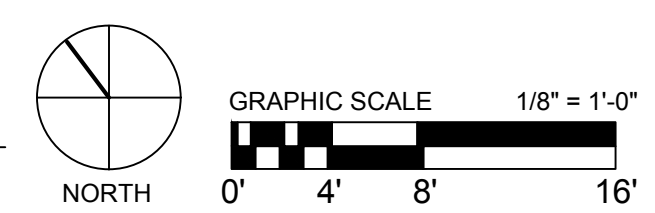
APPROX SCALE: **1/8" = 1'-0"**

DRAWING NUMBER:

**M-102**

**M1** **ROOF PLAN - MECHANICAL**

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



NORTH

GRAPHIC SCALE 1/8" = 1'-0"  
0' 4' 8' 16'



**VARIABLE AIR VOLUME ROOFTOP UNIT SCHEDULE (NOM. 20 TON)**

UNIT NO.	SUPPLY CFM MAXIMUM	SUPPLY CFM MINIMUM	O.A. CFM	EXT. S.P. (IN. OF WTR.)	COOLING				HEATING		ELECTRICAL				MIN. EER	MANUFACTURER & MODEL NUMBER	REMARKS	
					TOTAL BTUH	SEN. BTUH	E.A.T.		INPUT BTUH	OUTPUT BTUH	UNIT MCA	MOCP	VOLTS	PHASE				
							Db (°F)	Wb (°F)										AMBIENT TEMP. (°F)
AC-2	8,000	2,400	1,150	2.0	243,000	180,000	80	67	105	NONE	NONE	51	60	480	3	10.3	CARRIER 50A3-020-LM64AFL	EXISTING UNIT - TRANE 2504 HG 33A24D4FH
AC-3	8,000	2,400	1,150	2.0	243,000	180,000	80	67	105	NONE	NONE	51	60	480	3	10.3	CARRIER 50A3-020-LM64AFL	EXISTING UNIT - TRANE 2504 HG 33A24D4FH

**NOTES:**

- EXT. STATIC PRESSURE (S.P.) INCLUDES DUCTWORK, DAMPERS, GRILLES AND FILTERS.
- UNITS SHALL BE FURNISHED COMPLETE WITH FACTORY FABRICATED INSULATED CURB ADAPTER.
- UNITS SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY OPERATING CONTROLS.
- UNITS SHALL BE A VARIABLE VOLUME COOLING CONTROL.
- UNIT SHALL BE PROVIDED WITH CONVENIENCE OUTLET AND FACTORY MOUNTED RETURN AIR SMOKE DETECTOR.
- PROVIDE FACTORY HAILGUARDS ON ALL UNITS.
- PROVIDE EACH UNIT WITH FULL ECONOMIZER CYCLE DAMPERS AND CONTROLS AND BAROMETRIC RELIEF DAMPER.
- PROVIDE AC-2 WITH MINIMUM SCCR 65 KAIC. PROVIDE AC-3 WITH MINIMUM SCCR 5 KAIC.

**CONSTANT VOLUME ROOFTOP UNIT SCHEDULE (NOM. 25 TON)**

UNIT NO.	SUPPLY CFM	O.A. CFM	EXT. S.P. (IN. OF WTR.)	COOLING				GAS HEATING		ELECTRICAL				MIN. EER	MANUFACTURER & MODEL NUMBER	REMARKS	
				TOTAL BTUH	SEN. BTUH	E.A.T.		INPUT BTUH	OUTPUT BTUH	UNIT MCA	MOCP	VOLTS	PHASE				
						Db (°F)	Wb (°F)										AMBIENT TEMP. (°F)
AC-1	10,000	2,150	0.75	290,000	226,000	80	67	105	400,000	324,000	59.8	70	460	3	9.8	CARRIER 48TCFD28B3M6-2W430	EXISTING UNIT - TRANE SSZB 2004 HF 33A34DF4F

**NOTES:**

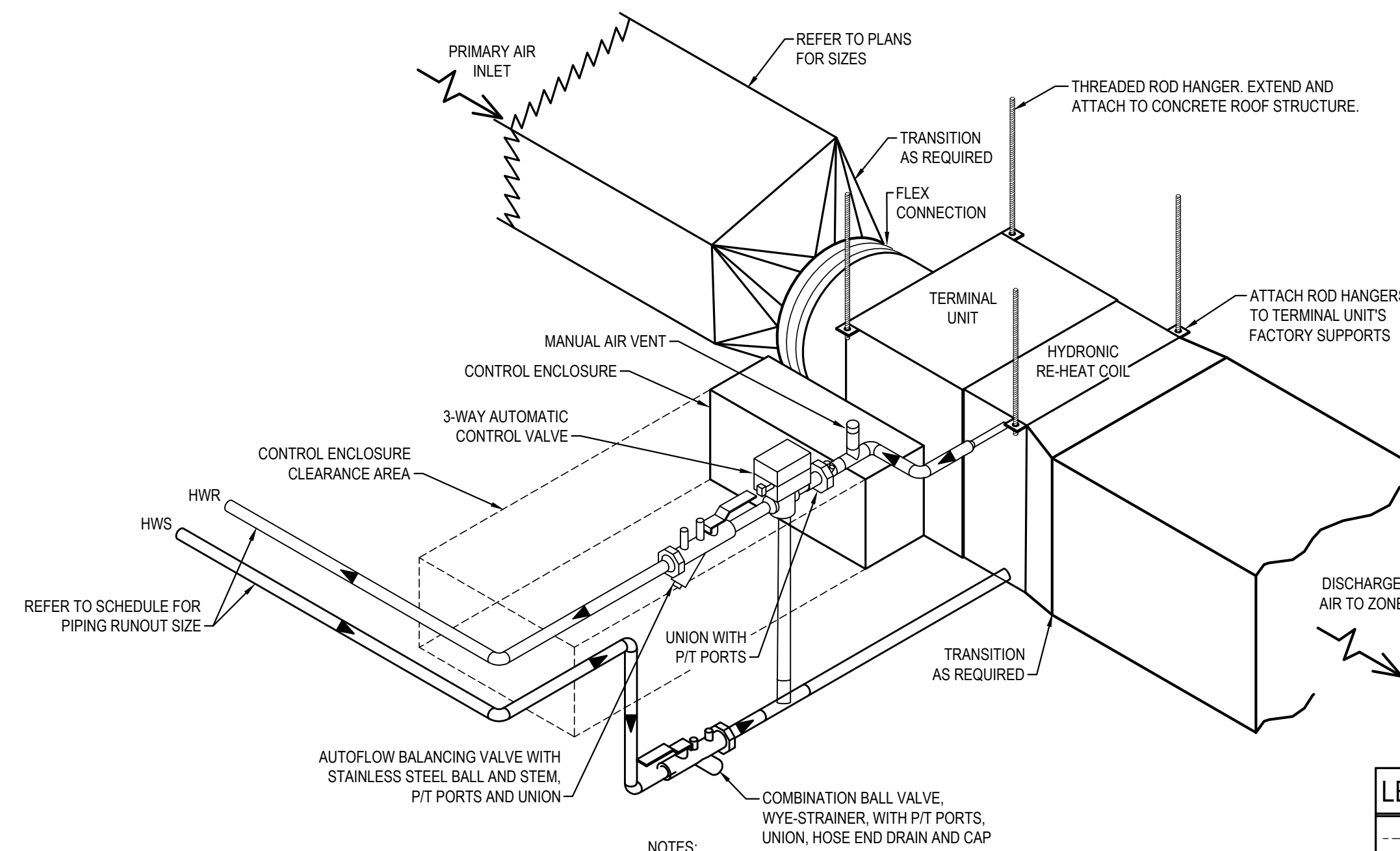
- EXT. STATIC PRESSURE (S.P.) INCLUDES DUCTWORK, DAMPERS, GRILLES AND FILTERS.
- UNITS SHALL BE FURNISHED COMPLETE WITH FACTORY FABRICATED INSULATED CURB ADAPTER.
- UNITS SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY OPERATING CONTROLS.
- UNITS SHALL BE 2 STAGE COOLING CONTROL AND HAVE 2 SPEED INDOOR FAN.
- UNIT SHALL BE PROVIDED WITH CONVENIENCE OUTLET AND FACTORY MOUNTED RETURN AIR SMOKE DETECTOR.
- PROVIDE FACTORY HAILGUARDS ON ALL UNITS.
- PROVIDE EACH UNIT WITH FULL ECONOMIZER CYCLE DAMPERS AND CONTROLS AND BAROMETRIC RELIEF DAMPER.
- PROVIDE MINIMUM SCCR 65 KAIC.

**VARIABLE VOLUME TERMINAL UNITS**

UNIT NO.	CFM		UNIT MAX P.D.	UNIT N.C.	WATER HEATING COIL							REMARKS
	MAX	MIN.			E.A.T. (°F)	CAP BTUH	ROWS	GPM	PIPING RUNOUT SIZE	E.W.T. (°F)	MAX P.D. (FT. OF WTR.)	
VAV-2-1	1,800	540	0.55	35	35	50,300	3	6.0	1"	180	3.0	CARRIER 35E UNIT SIZE 14
VAV-2-2	1,850	495	0.50	35	35	46,100	3	6.0	1"	180	3.0	CARRIER 35E UNIT SIZE 14
VAV-2-3	2,000	600	0.65	35	35	55,900	3	6.0	1"	180	3.0	CARRIER 35E UNIT SIZE 14
VAV-2-4	600	180	0.55	35	35	16,800	3	2.4	3/4"	180	0.6	CARRIER 35E UNIT SIZE 07
VAV-2-5	1,600	480	0.50	35	35	44,700	4	6.0	1"	180	3.0	CARRIER 35E UNIT SIZE 14
VAV-2-6	600	180	0.55	35	35	16,800	3	2.4	3/4"	180	0.6	CARRIER 35E UNIT SIZE 07
VAV-2-7	400	120	0.40	35	35	11,200	3	2.0	3/4"	180	0.7	CARRIER 35E UNIT SIZE 06
VAV-3-1	3,000	900	0.65	35	35	83,900	2	6.0	1"	180	2.1	CARRIER 35E UNIT SIZE 16
VAV-3-2	800	240	0.40	35	35	22,400	2	2.0	3/4"	180	0.7	CARRIER 35E UNIT SIZE 06
VAV-3-3	400	120	0.40	35	35	11,200	3	2.0	3/4"	180	0.7	CARRIER 35E UNIT SIZE 06
VAV-3-4	1,000	300	0.65	35	35	28,000	3	4.0	1"	180	1.5	CARRIER 35E UNIT SIZE 09
VAV-3-5	3,000	900	0.55	35	35	83,900	2	6.0	1"	180	2.1	CARRIER 35E UNIT SIZE 16

**NOTES:**

- MAX P.D. INCLUDES UNIT INTERNAL LOSS ONLY.
- UNIT CONTROLLERS SHALL BE PROVIDED AND INSTALLED BY BCS PROVIDER.



**NOTES:**

- THE TERMINAL UNITS CONTROL ENCLOSURE SHALL HAVE AN UNOBSTRUCTED ACCESSIBLE CLEARANCE OF 2'-6" MINIMUM DIRECTLY IN FRONT OF ENCLOSURE FROM THE BOTTOM OF THE CEILING UP TO THE TOP OF THE ENCLOSURE.
- PRIMARY AIR INLET DUCT SHALL HAVE A MINIMUM OF 3 DUCT DIAMETERS OF STRAIGHT RUN UPSTREAM OF THE TERMINAL UNIT INLET.
- ALL TERMINAL UNITS INSTALLED ABOVE A GYP. CEILING SHALL HAVE AN ACCESS PANEL LOCATED DIRECTLY BENEATH THE CONTROL ENCLOSURE. COORDINATE CEILING TYPE AND ACCESS PANEL WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

**M1** TERMINAL UNIT DETAIL (VAV w/HYDRONIC RE-HEAT)  
NOT TO SCALE

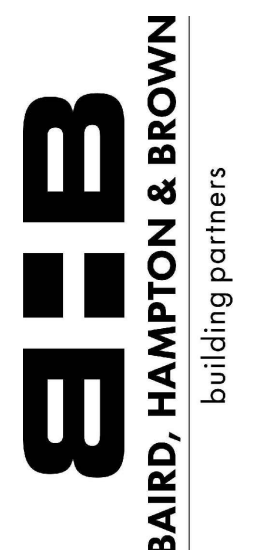
**HVAC GENERAL NOTES:**

- FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY EVEN THOUGH NOT SPECIFICALLY IDENTIFIED.
- ALL WORK AND/OR MATERIALS SHALL BE INSTALLED BY A LICENSED CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL BUILDING AND MECHANICAL CODES.
- ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL DUCTWORK ELBOWS.
- ALL INTERIOR DUCTS SHALL BE CONSTRUCTED WITH G-60 OR BETTER GALVANIZED STEEL (ASTM A 653/A 653M) LFD, CHEM TREAT.
- COORDINATE EXACT ROUTING OF ALL WORK WITH ALL EXISTING CONDITIONS PRIOR TO INSTALLATION OF WORK.
- ALL NEW SUPPLY AIR DUCTWORK AND ALL SUPPLY DUCTWORK WITH ABATED INSULATION IN THE AREA OF NEW VAV BOXES SHALL BE INSULATED WITH 2" THICK, 0.75 LB/CF (MINIMUM) FSK WRAP INSULATION (MINIMUM INSTALLED R-VALUE = R-6).
- ALL DUCT DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS.
- MOUNT ALL TEMPERATURE SENSORS 4'-0" ABOVE FLOOR (TYPICAL).
- THE MECHANICAL CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING AND BALANCING AGENCY CERTIFIED BY THE AABC TO TEST AND BALANCE THE HVAC SYSTEMS. SYSTEMS SHALL BE BALANCED TO PLUS/MINUS 10% OF DESIGN REQUIREMENTS. THE CONTRACTOR SHALL PLACE ALL SYSTEMS AND EQUIPMENT INTO FULL OPERATION FOR TESTING AND BALANCING. PROVIDE FIVE (5) COPIES TO THE OWNER.
- BASE BID, PROVIDE 5 YEAR WARRANTY ON COMPRESSORS, AND 15 YEAR WARRANTY ON HEAT EXCHANGERS.
- ALTERNATE BID NO. 2, PROVIDE FULL 5 YEAR PARTS AND LABOR WARRANTY FOR ALL NEW ROOFTOP UNITS.
- THE WORK WILL NEED TO BE PHASED SO THAT ONLY A PORTION OF THE BUILDING IS WITHOUT HVAC AT ONE TIME. WORK ON AC-3 WILL BE COMPLETED AS ONE PHASE, AND WORK ON AC-1 AND AC-2 WILL BE COMPLETED AS A SEPARATE PHASE OF WORK.
- THERE IS POTENTIAL FOR ANOTHER PROJECT INVOLVING ROOF WORK TO BE ONGOING DURING THIS PROJECT. COORDINATE WITH OWNER.
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909 W 45TH ST, BLDG 3  
AUSTIN, TEXAS 78756

**MANAGING CONSULTANT:**



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TBP/ELS Firm #44, #10011300, #10011302, #10164146  
BHB PROJECT # 2020121000

PROJ NO: 2022.012.000

QC DATE: 08/01/22

BY: LB



8/1/22

HHSC BUILDING NO:

**700**

**MECHANICAL SCHEDULES & DETAILS**

HHSC PROJ NO: 22-147-WFH

DATE 08/01/22

REV:

FILE NAME:

VERIFY SCALE

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

DRAWING NUMBER:

**M-210**



**NOTES BY SYMBOL:** "○"

1. DISCONNECT MECHANICAL UNIT ELECTRICAL CONNECTION.
2. DISCONNECT DETECTOR, SAFE OFF CONDUCTORS FOR CONNECTION TO NEW DEVICE.



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**GENERAL NOTE:**

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**MANAGING CONSULTANT:**

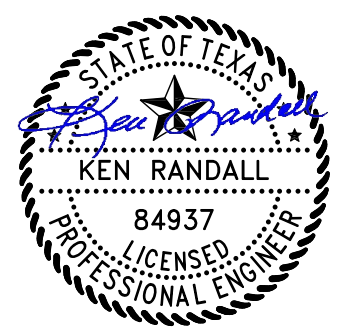


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mhb@bbbhinc.com • (817) 338-1277 • bbbhinc.com  
TBPELS Firm # 010011902, #10194146  
BBB PROJECT # 2020.02.000

PROJ NO: **2022.012.000**

QC DATE: **08/01/22**

BY: **KR**



08/01/2022

HHSC BUILDING NO:

**700  
DEMOLITION  
ELECTRICAL  
PLAN**

HHSC PROJ NO: **22-147-WFH**

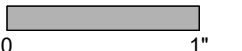
DATE: **05/16/22**

REV:

FILE NAME:

VERIFY SCALE

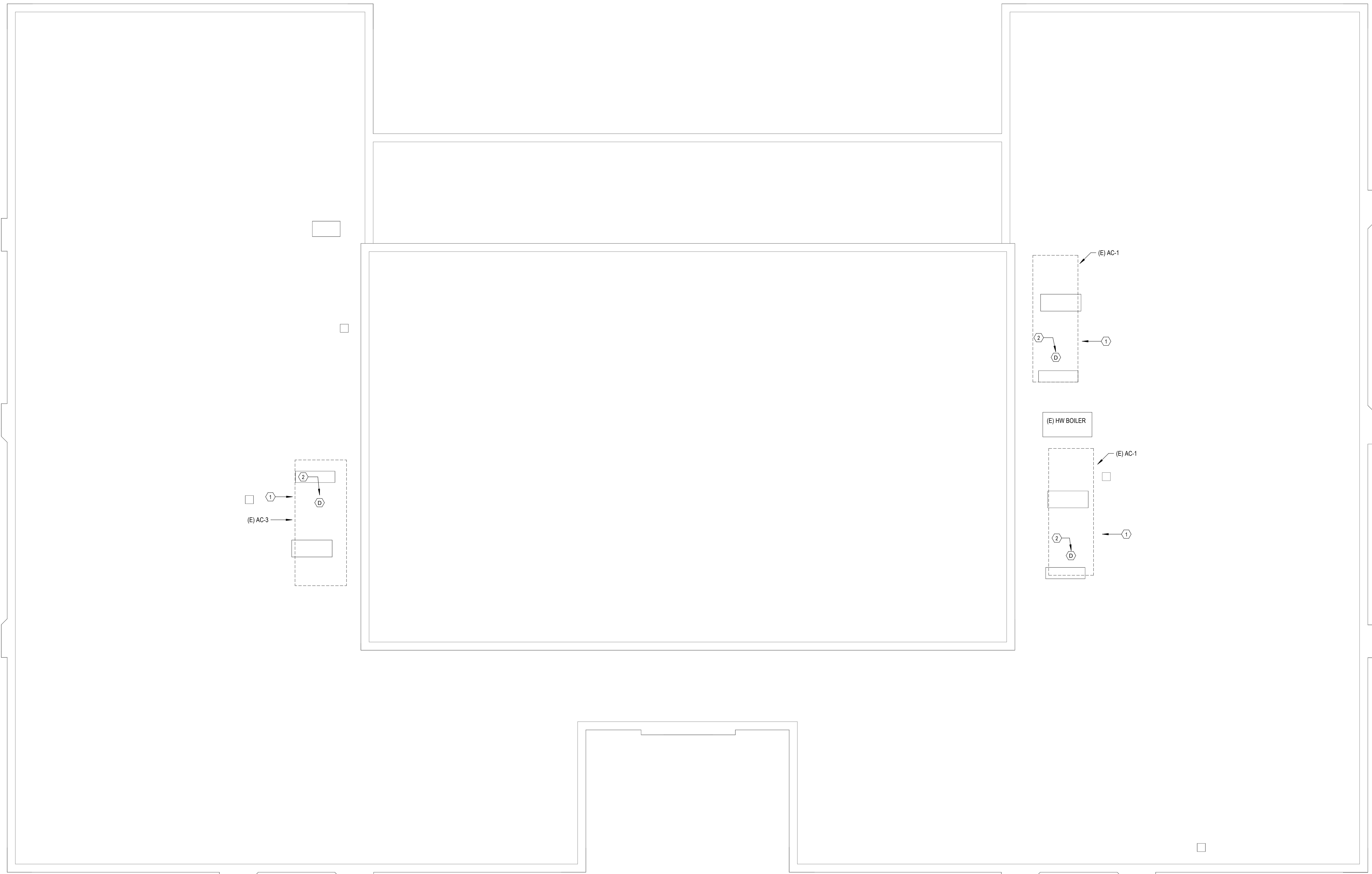
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



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

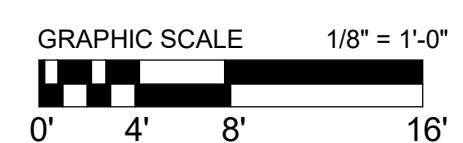
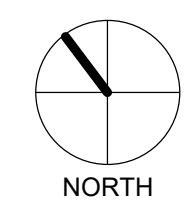
DRAWING NUMBER:

**ED-101**



**E1 DEMOLITION ELECTRICAL PLAN**

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







1

2

3

4

**NOTES BY SYMBOL:** "○"

1. REPLACE EXISTING CONDUCTORS WITH 3#3 - 1#8G IN EXISTING 1-1/4". TO "MDP". EXTEND EXISTING CONDUIT TO NEW DISCONNECT SWITCH. EXISTING CIRCUIT BREAKER IN "MDP" TO BE REUSED.
2. 3#6 & 1#10G, 1".
3. SERVICE RECEPTACLE FURNISHED WITH HVAC UNIT. CONNECT TO CIRCUIT D-30.
4. DUCT DETECTOR FURNISHED WITH HVAC UNIT. CONNECT TO EXISTING FIRE ALARM SYSTEM CABLING AND TEST DEVICE.
5. 3#4 & 1#8G, 1-1/4".



909 W 45TH ST, BLDG 3  
AUSTIN, TEXAS 78756

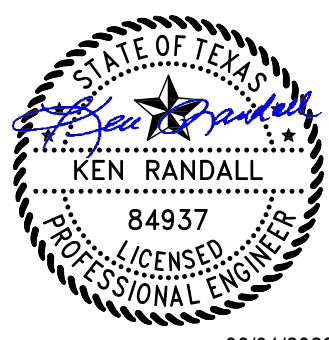
**MANAGING CONSULTANT:**



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BBB PROJECT # 2020.02.000

PROJ NO: 2022.012.000

QC DATE: 08/01/22 BY: KR



08/01/2022

HHSC BUILDING NO:

**700**  
**ELECTRICAL**  
**ROOF PLAN**

HHSC PROJ NO: 22-147-WFH

DATE: 05/16/22 REV:

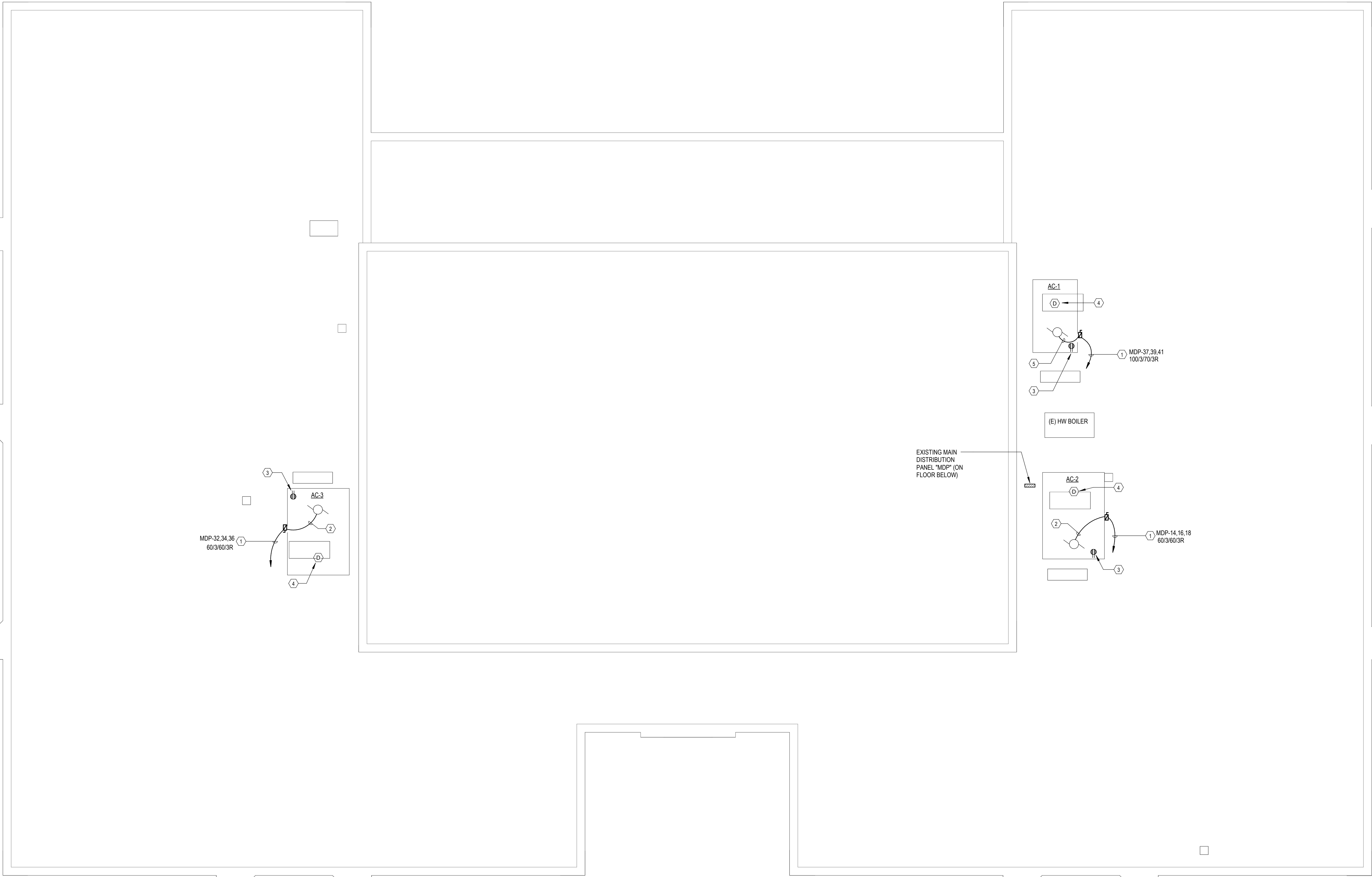
FILE NAME:

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

DRAWING NUMBER:

**E-102**



**E1 ELECTRICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"



ELECTRICAL SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LED LIGHT FIXTURE - REFER TO NOTE 1		SPEAKER (CEILING MTD)
	FIRE ALARM STROBE/HORN UNIT - CEILING MOUNTED		CEILING MTD SMOKE DETECTOR
	FIRE ALARM STROBE ONLY UNIT - CEILING MOUNTED		DUCT MOUNTED SMOKE DETECTOR
	SECURITY CAMERA		FUSED DISCONNECT SWITCH
	CONDUIT AND HOMERUN TO PANEL - NOTE 1		DISCONNECT SIZE / POLES / FUSE SIZE / ENCLOSURE RATING
	EXIT LIGHT FIXTURES		MOTOR
			SINGLE POLE SWITCH

NOTES:  
WHEN NO HASH MARKS ARE SHOWN, PROVIDE ONE PHASE CONDUCTOR, ONE NEUTRAL CONDUCTOR, AND ONE GROUND CONDUCTOR.

**Branch Panel: (E)MDP**

Location: ELEC.-1 198-1      Volts: 480/277 Wye  
Supply From:      Phases: 3  
Mounting: Recessed      Wires: 4  
Type 1

A.I.C. Rating: 14K  
Mains Type: MLO  
Bus Rating: 600A  
SPD Device:  
No. of Sections:

Notes: MANUFACTURER: WESTINGHOUSE / EATON

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
MDP-1	EXISTING LOAD	20 A	3	0 VA			0 VA			1	20 A	EXISTING LOAD	MDP-2
MDP-3	--	--	--		0 VA			0 VA		1	20 A	EXISTING LOAD	MDP-4
MDP-5	--	--	--			0 VA			0 VA	1	20 A	EXISTING LOAD	MDP-6
MDP-7	EXISTING LOAD	20 A	3	0 VA			--			1	--	Space	MDP-8
MDP-9	--	--	--		0 VA		--			1	--	Space	MDP-10
MDP-11	--	--	--			0 VA				1	--	Space	MDP-12
MDP-13	EXISTING LOAD	30 A	3	0 VA			14294 VA			3	90 A	AC-2	MDP-14
MDP-15	--	--	--		0 VA			14294 VA		--	--	--	MDP-16
MDP-17	--	--	--			0 VA			14294 VA	--	--	--	MDP-18
MDP-19	EXISTING LOAD	150 A	3	0 VA			0 VA			3	30 A	EXISTING LOAD	MDP-20
MDP-21	--	--	--		0 VA			0 VA		--	--	--	MDP-22
MDP-23	--	--	--			0 VA			0 VA	--	--	--	MDP-24
MDP-25	EXISTING LOAD	30 A	3	0 VA			0 VA			3	60 A	EXISTING LOAD	MDP-26
MDP-27	--	--	--		0 VA			0 VA		--	--	--	MDP-28
MDP-29	--	--	--			0 VA			0 VA	--	--	--	MDP-30
MDP-31	EXISTING LOAD	60 A	3	0 VA			14294 VA			3	80 A	AC-3	MDP-32
MDP-33	--	--	--		0 VA			14294 VA		--	--	--	MDP-34
MDP-35	--	--	--			0 VA			14294 VA	--	--	--	MDP-36
MDP-37	AC-1	80 A	3	16731 VA			--			1	--	Space	MDP-38
MDP-39	--	--	--		16731 VA					1	--	Space	MDP-40
MDP-41	--	--	--			16731 VA				1	--	Space	MDP-42
				Total Load:	45318 VA	45318 VA	45318 VA					Total Connected Load:	135955 VA
				Total Amps:	164 A	164 A	164 A					Total Connected Amps:	164 A
Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panel Totals									
Power	135955 VA	100.00%	135955 VA	Total Connected Load:	135955 VA								
				Total Demand Load:	135955 VA								
				Total Connected:	164 A								
				Total Demand Load:	164 A								

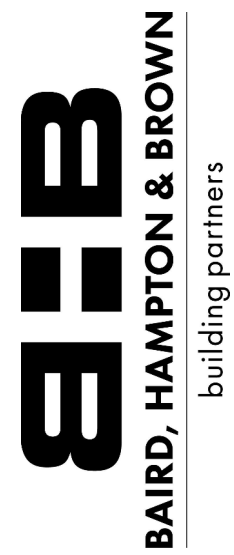
NOTES BY SYMBOL: "○"

1. REUSE EXISTING CIRCUIT BREAKER.



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BBB PROJECT # 2020.02.000

PROJ NO: 2022.012.000

QC DATE: 08/01/22 BY: KR



08/01/2022

HHSC BUILDING NO:

**700**  
**ELECTRICAL SCHEDULES & DETAILS**

HHSC PROJ NO: 22-147-WFH

DATE: 07/13/22 REV:

FILE NAME:

VERIFY SCALE

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APPROX SCALE: 12" = 1'-0"

DRAWING NUMBER:

**E-210**