

SHEET NOTES - DEMOLITION

- CONTRACTOR SHALL VISIT THE SITE AND BECOME GENERALLY FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK.
- CONTRACTOR SHALL NOTIFY THE OWNER OF ANY AND ALL DISCREPANCIES BETWEEN THE DEMOLITION DRAWINGS AND SPECIFICATIONS AND ACTUAL CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- REFER TO M/E/P AND FP DEMOLITION AND NEW WORK DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE PROTECTION AGAINST MOISTURE, IMPACT AND OTHER TYPES OF DAMAGE AT ALL OPENINGS CREATED BY SELECTIVE DEMOLITION AND NEW CONSTRUCTION WORK. REPAIR AND REPLACE DAMAGED AREAS AT NO ADDITIONAL COST TO THE OWNER.
- ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED & REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
- EXISTING FLOOR PENETRATIONS, WHERE PIPING, DUCTWORK, CONDUIT OR OTHER ITEMS HAVE BEEN REMOVED DURING DEMOLITION ARE TO BE FILLED WITH CONCRETE TO MATCH THE EXISTING SURROUNDING FLOOR AND REQUIRED FIRE RATINGS.

SHEET NOTES - DEMOLITION

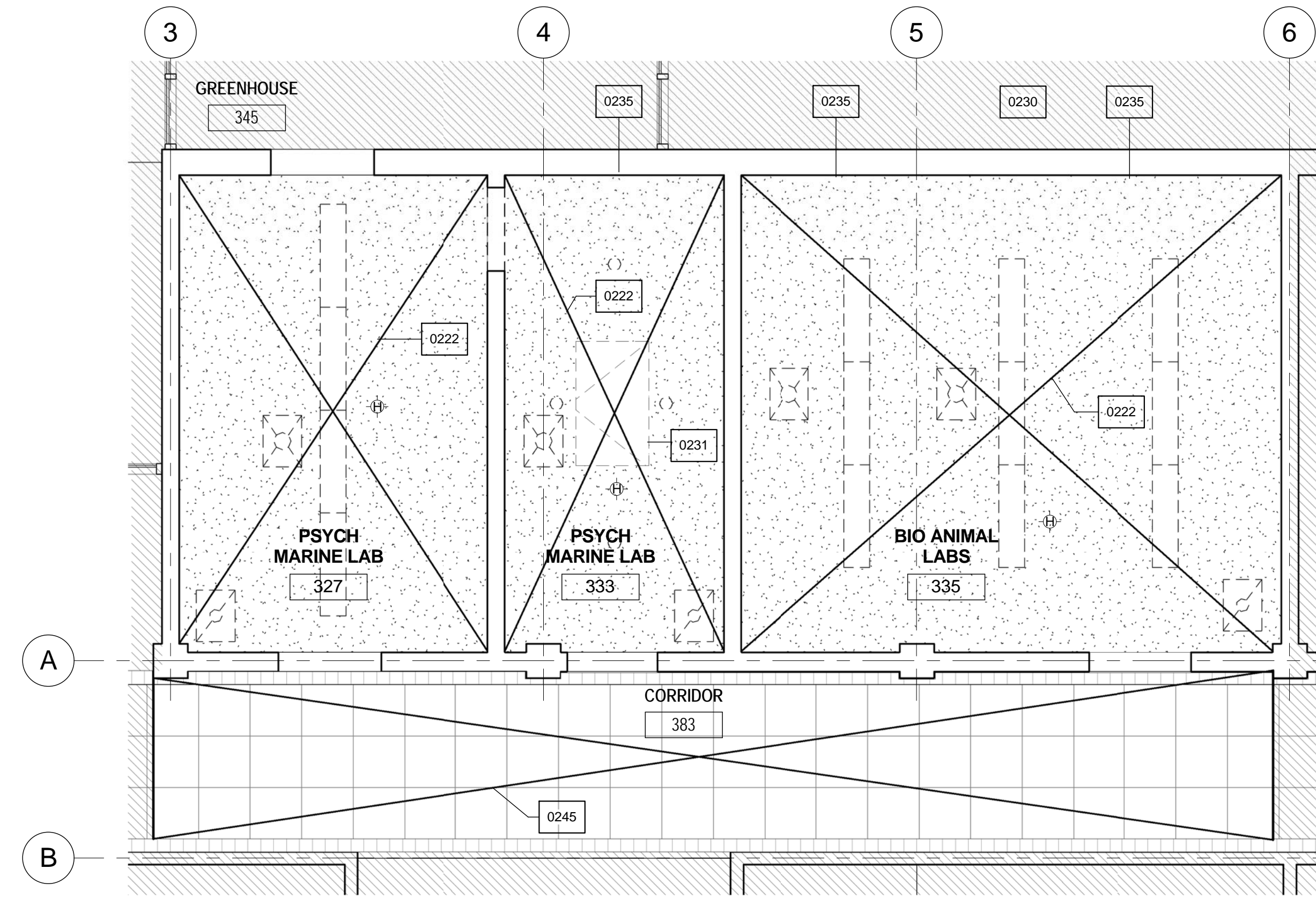
- PROTECT EXISTING INTERIOR WALLS DURING REMOVAL AND CONSTRUCTION. PROVIDE TEMPORARY PROTECTION FROM DUST, NOISE, DAMAGE, ETC. AND CONSTRUCTION BARRIERS AND OTHER SITE PROTECTION REQUIREMENTS CONSISTENT WITH THE SPECIFICATIONS SECTION, AND DIVISION 1, GENERAL REQUIREMENTS.
- PLANS ARE DIAGRAMMATIC AND PROVIDED TO SHOW INTENT ONLY. UNLESS SPECIFICALLY NOTED OTHERWISE ALL PARTITION ASSEMBLIES INDICATED TO BE DEMOLISHED SHALL BE DEMOLISHED COMPLETELY, INCLUDING PLASTER, MASONRY, GWB, STUDS, TRACKS FASTENING DEVICES, AND ALL RELATED PARTS.
- SALVAGED MATERIALS INDICATED ARE PROPERTY OF THE OWNER. TEMPORARILY STORE MATERIALS ON SITE AS DIRECTED BY THE OWNER. PROVIDE ALL NECESSARY PROTECTION AGAINST MOISTURE, IMPACT, AND ANY OTHER TYPE OF POTENTIAL DAMAGE.

SHEET NOTES - DEMOLITION

- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS DAILY. DEMOLITION WORK SHALL REMAIN SAFE & CLEAN FOR THE BUILDING'S OCCUPANTS & CONSTRUCTION WORKERS. OCCUPIED AREAS ADJACENT TO THE PROJECT WORK AREAS SHALL BE KEPT CLEAN AT ALL TIMES DURING THE WORK.
- REMOVE CEILINGS & ASSOCIATED HANGERS AND SUPPORTS IN LOCATIONS TO RECEIVE NEW CEILINGS. SEE THE FINISH SCHEDULE & THE REFLECTED CEILING PLANS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION, SUPPORT, BRACING SEALING AND CAPPING OF EXISTING PARTITIONS, CEILINGS, PIPES, DUCTS, CONDUITS, ETC., SHOWN TO BE PARTIALLY DEMOLISHED. THE TEMPORARY WORK SHALL KEEP THE PARTIALLY DEMOLISHED WORK STABILIZED. WHERE EXISTING CONSTRUCTION IS SHOWN TO BE PARTIALLY DEMOLISHED, EXTEND DEMOLITION A MINIMAL DISTANCE AS REQUIRED TO INSTALL NEW WORK INDICATED.

SHEET KEYNOTES

- 0201 REMOVE EXISTING CIRCADIAN BOX BY NEIU
- 0202 REMOVE EXISTING FAUCET
- 0203 EXISTING FLOOR DRAIN TO REMAIN
- 0204 REMOVE RAISED FLOOR PLATFORM. SCAN THE PLATFORM FOR PIPES AND CONDUITS BEFORE DEMOLITION
- 0205 REMOVE EXISTING SINK - SEE PLUMBING DRAWINGS.
- 0206 REMOVE EXISTING LAB DRYING BOARD
- 0207 REMOVE AND SALVAGE EXISTING STORAGE UNIT BY NEIU
- 0208 SAWCUT AND REMOVE EXISTING STRUCTURAL GLAZED FACING TILE WALL FOR NEW DOOR OPENING.
- 0209 REMOVE AND RE-INSTALL EXISTING MOBILE METAL TABLE BY NEIU
- 0210 REMOVE AND RELOCATE EXISTING 6' X 7' METAL RACK BY NEIU
- 0211 REMOVE AND SALVAGE EXISTING COMPUTER BOX BY NEIU
- 0212 EXISTING GREEN HOUSE ENCLOSURE TO REMAIN.
- 0213 REMOVE AND SALVAGE EXISTING TABLE BY NEIU
- 0214 REMOVE, SALVAGE AND REINSTALL EXISTING WALL-MOUNTED EYEWASH
- 0215 REMOVE AND RE-INSTALL EXISTING CABINET BY NEIU
- 0216 REMOVE EXISTING RACK BY NEIU
- 0217 REMOVE AND RE-INSTALL EXISTING FISH TANK & RACK BY NEIU
- 0218 REMOVE AND RE-INSTALL EXISTING FRIDGE BY NEIU
- 0219 REMOVE PORTION OF WALL FOR NEW DUCT WORK. SEE MECHANICAL DRAWINGS.
- 0220 CUT ROOF TO ACCOMMODATE NEW ROOF THROUGH PLUMBING VENT. SEE PLUMBING.
- 0221 SAW CUT STRUCTURAL GLAZED FACING TILE WALL, TO ACCOMMODATE COLD WATER FEEDER FOR FISH TANKS. SEE PLUMBING.
- 0222 REMOVE EXISTING FINISH CEILING, CEILING SOFFITS, CEILING DEVICES AND FIXTURES
- 0224 REMOVE EXISTING CASEWORK. REMOVE AND SALVAGE EXISTING STAINLESS STEEL COUNTERTOP FOR NEW WORK
- 0225 REMOVE AND RE-INSTALL EXISTING FARADAY BOX BY NEIU
- 0226 REMOVE AND RE-INSTALL EXISTING TABLE BY NEIU
- 0227 REMOVE AND RE-INSTALL EXISTING TOOLBOX BY NEIU
- 0228 REMOVE AND RE-INSTALL EXISTING CRYO BY NEIU
- 0229 REMOVE AND RE-INSTALL EXISTING COMPUTER BY NEIU
- 0230 EXISTING GREEN HOUSE
- 0231 REMOVE COVER ONLY OF EXISTING ROOF HATCH. HATCH FRAME OPENING AND CAP FLASHING TO REMAIN.
- 0233 EXISTING VENTS TO REMAIN
- 0234 REMOVE EXISTING ROOF EXHAUST. SEE MECHANICAL
- 0235 REMOVE EXISTING WALL-MOUNTED HW, CW, A & S TO MAIN AND CAP. SEE PLUMBING DRAWINGS.
- 0242 EXISTING ROOF TO REMAIN, TYPICAL
- 0243 REMOVE EXISTING DOOR, EXISTING FRAME TO REMAIN
- 0244 REMOVE EXISTING FLOOR FINISH AND PREP IT TO TAKE NEW FLOOR FINISH, TYPICAL
- 0245 TEMPORARILY REMOVE AND SALVAGE EXISTING CEILING GRID AND TILES TO ACCOMMODATE MECHANICAL WORK. INSTALL NEW MECHANICAL WORK. PROTECT EXISTING FIXTURES, FINISHES, EQUIPMENT, FURNISHING DURING REMOVAL. RE-INSTALL EXISTING CEILING TILES. PATCH, CLEAN AND REPAIR ANY DAMAGE TO THE EXISTING SPACE. SEE MECHANICAL DRAWINGS.
- 0246 REMOVE EXISTING WALL MOUNTED FIXTURES, EXISTING WIREMOLD AND EXISTING OUTLETS, TYPICAL. - SEE ELECTRICAL AND MECHANICAL DRAWINGS.



DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"
NOTE: SEE 2/G200 CONSTRUCTION COORDINATION PLAN FOR SECOND FLOOR CEILING DEMOLITION PLAN

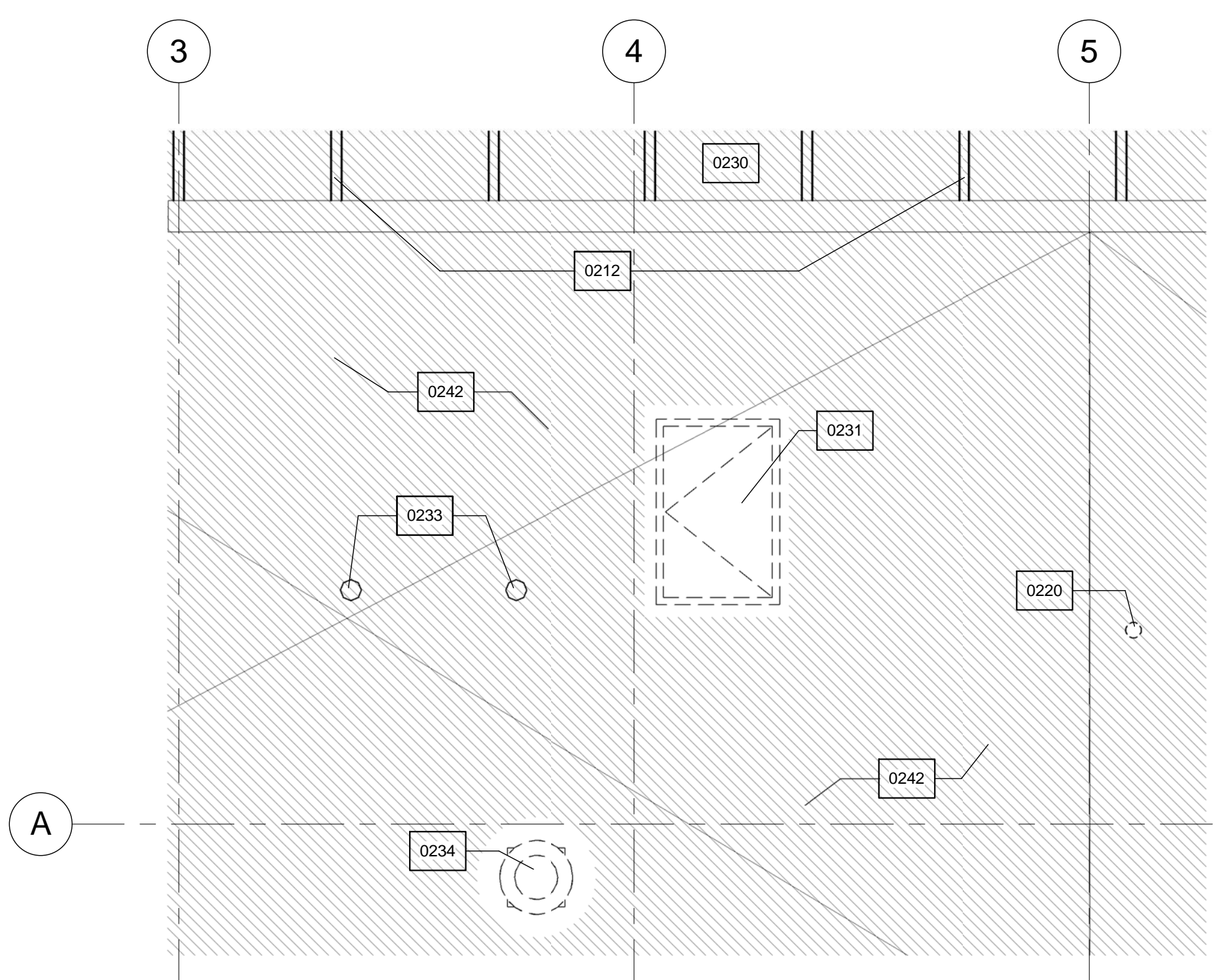
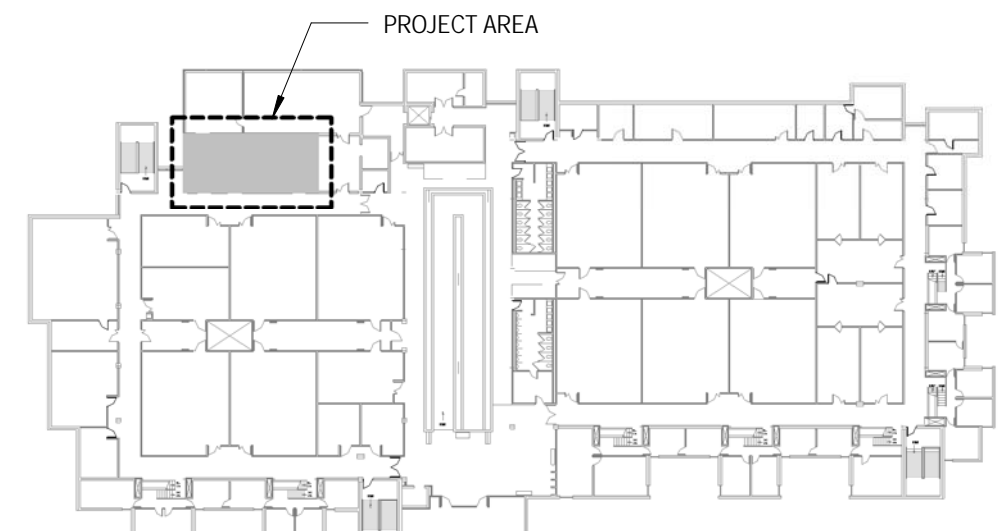
DEMOLITION RCP LEGEND

- EXISTING LIGHT FIXTURE TO BE REMOVED; REF. TO ELECTRICAL PLANS
- EXISTING MECH. SUPPLY DIFFUSER TO BE REMOVED; REF. MECHANICAL PLANS
- EXISTING MECH. RETURN DIFFUSER TO BE REMOVED; REF. MECHANICAL PLANS
- INDICATES EXTENT OF DEMOLITION WORK REQUIRED BY KEYNOTE THROUGHOUT ROOM OR SPACE
- EXISTING HEAT DETECTOR TO BE REMOVED.
- AREA OUTSIDE THE EXTENT OF INTERIOR FINISH WORK

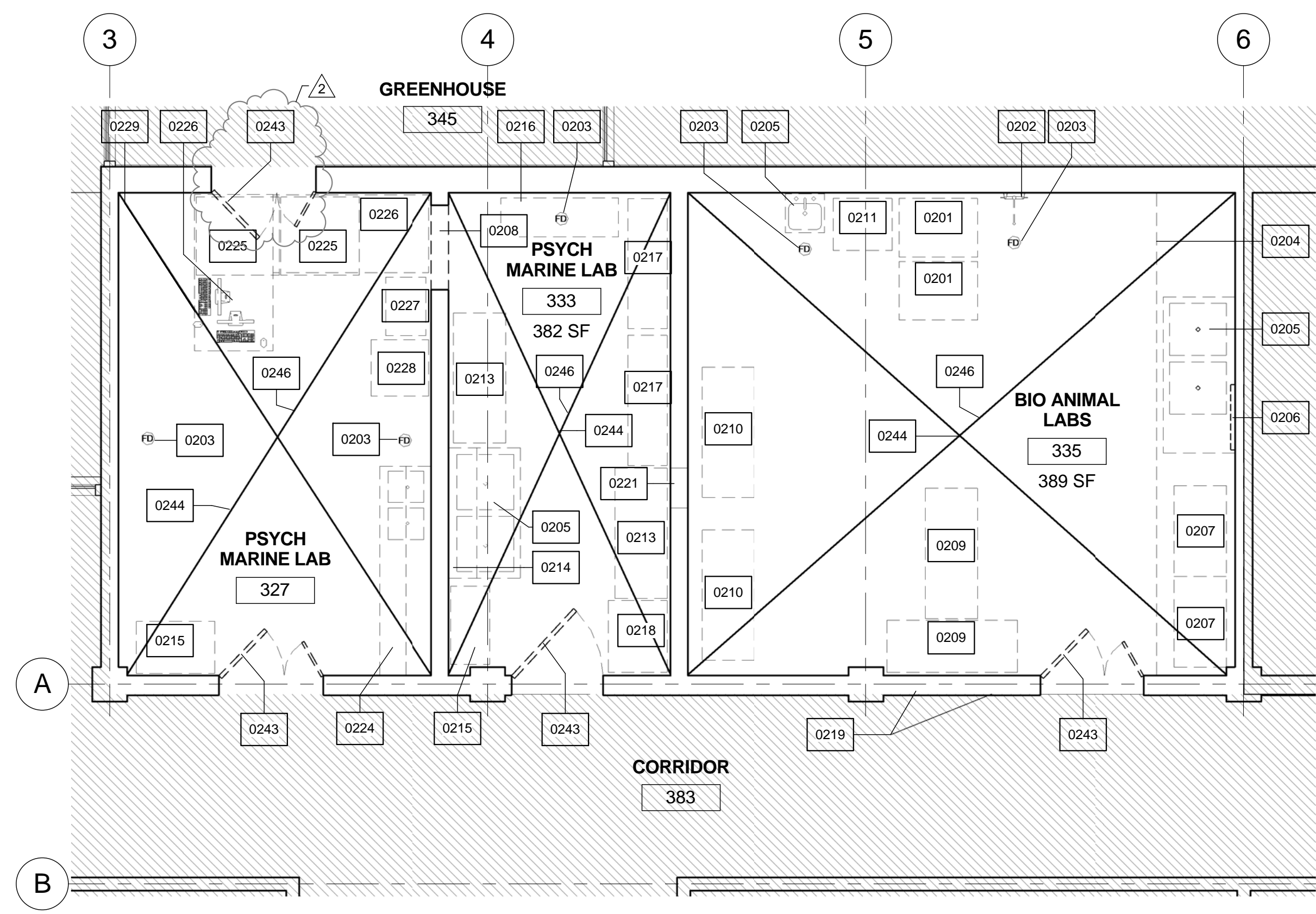
DEMOLITION PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING DOOR AND FRAME TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED
- INDICATES EXTENT OF DEMOLITION WORK REQUIRED BY KEYNOTE THROUGHOUT ROOM OR SPACE
- AREA OUTSIDE THE EXTENT OF INTERIOR FINISH WORK

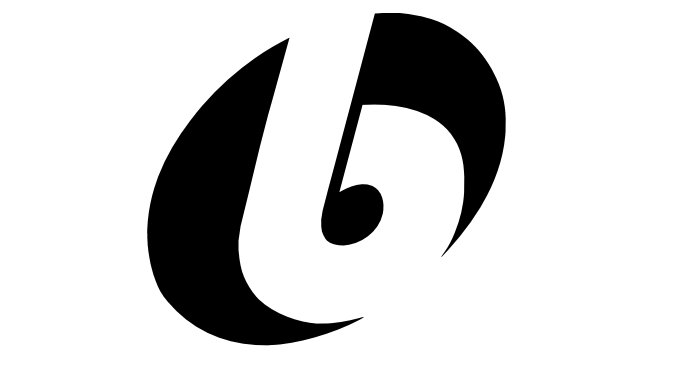
KEY PLAN - THIRD FLOOR



DEMOLITION ROOF PLAN
1/4" = 1'-0"



DEMOLITION PLAN
1/4" = 1'-0"



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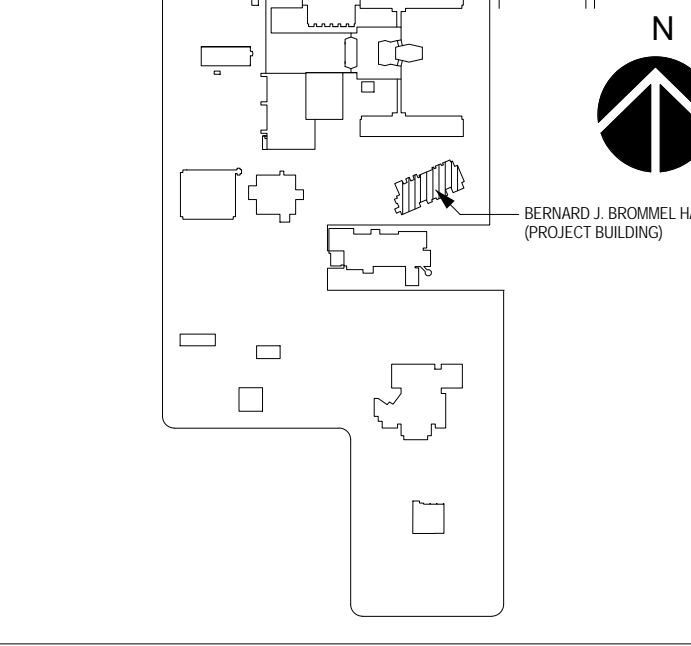
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PROJECT NOTES

Revision Schedule			
No.	Date	Description	
1	4/24/2013	ISSUED FOR BID	
2	5/2/2013	ISSUED AS ADDENDUM #1	

SITE PLAN



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PROJECT: **VIVARIUM & MARINE ORGANISMS RENOVATION**
NEIU # 11-0333-0213 BE # 1302-13-01
BUILDING ID/NAME: BERNARD J. BROMMEL HALL
ARCHITECTURAL DEMOLITION PLANS

DATE	4/24/2013	SCALE	As indicated
DRAWN BY	PG	SHEET No.	D100
CHECKED BY	MP	5 of 23 SHEETS	

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SHEET NOTES - PLAN

- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATION HEIGHTS, CONSTRUCTION AND BUILDING SYSTEMS IN THE FIELD AND PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- ROOM LAYOUTS AND CONFIGURATIONS AND FOR AREAS OUTSIDE OF THE CURRENT WORK ARE SHOWN FOR REFERENCE ONLY. EXISTING CONSTRUCTION IS BASED UPON LIMITED SURVEYS BY THE ARCHITECT AND INFORMATION PROVIDED BY THE OWNER. FIELD VERIFICATION PRIOR TO COMMENCEMENT OF CONSTRUCTION IS REQUIRED.
- IN AREAS OF REMOVAL AND WHERE NEW WORK AND/OR FINISHES ARE NOT SCHEDULED, CONTRACTOR SHALL REPAIR, PATCH AND CLEAN WALLS, FLOORS, WALL BASES, AND CEILING AS REQUIRED TO MATCH EXISTING FINISHES TO BE FLUSH, SMOOTH, AND MATCH ADJACENT MATERIALS IN ALL RESPECTS. RELOCATE LIGHT FIXTURES AND OTHER CEILING AND WALL MOUNTED DEVICES WHERE NEW PARTITIONS ARE SHOWN ADJACENT TO AREAS NOT SCHEDULED FOR NEW FINISHES.
- PREPARE ALL EXISTING SURFACES TO REMAIN PROVIDING CLEAN SMOOTH SURFACES TO RECEIVE SCHEDULED FINISHES. LEVEL FLOOR SLAB SURFACES AS REQUIRED TO PROVIDE A FLAT, LEVEL SURFACE FOR FLOORING INSTALLATIONS. REFERENCE THE FINISH SCHEDULE SHEET AND THE FINISH PLANS SHEETS FOR RELATED REQUIREMENTS.

SHEET NOTES - PLAN

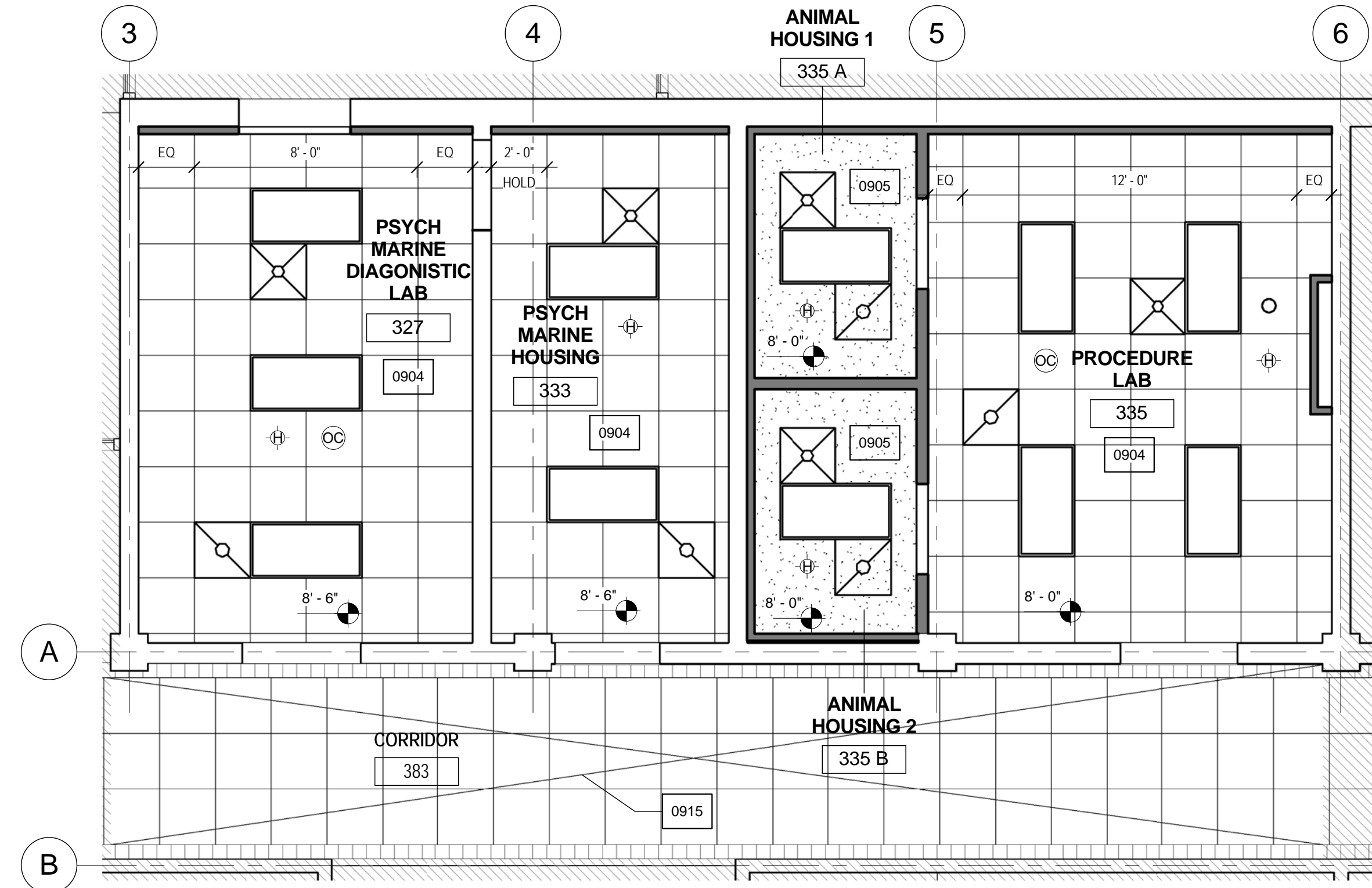
- WHERE EXISTING MASONRY PARTITIONS ARE REMOVED FOR NEW OPENINGS & WHERE EXISTING OPENINGS ARE ENLARGED, PATCH AND FINISH NEW OPENINGS AS REQUIRED BY TOOTHING NEW OPENING TO MATCH EXISTING PARTITIONS. MAINTAIN EXISTING ACOUSTIC PERFORMANCE AND REQUIRED FIRE AND SMOKE RATINGS.
- CLEAN AND PREPARE FOR NEW FINISHES EXISTING SURFACES INDICATED TO REMAIN. COORDINATE WITH THE VA REMOVAL AND DISPOSAL OF UNWANTED SIGNAGE, FIXTURES, HARDWARE, ETC. ON EXISTING SURFACES TO MATCH EXISTING SUBSTRATES AND PROVIDE AN ADDITIONAL PRIME PAINTED COATING ON ALL REPAIRS PRIOR TO REFINISHING AS SCHEDULED. COORDINATE WITH THE REQUIREMENTS OF THE FINISH SCHEDULE.
- LEVEL EXISTING FLOOR SURFACES SCHEDULED WITH NEW FLOOR FINISHES AS REQUIRED TO PROVIDE LEVEL AND FLAT FLOOR SURFACES.
- FURNISH AND INSTALL REINFORCEMENT REQUIRED FOR WALL, FLOOR, OR CEILING MOUNTED ITEMS, INCLUDING OWNER & VENDOR MOUNTED ITEMS.

SHEET NOTES - PLAN

- ALL PENETRATIONS OF FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED & REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING OR SMOKE INFILTRATION INTEGRITY OF THE FLOOR AND WALL ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ARE TO BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
- DO NOT APPLY NEW FINISHES TO EXISTING WALL AND CEILING MOUNTED DEVICES, FIXTURES, COVER PLATES, SIGNAGE, HARDWARE, ITEMS, ETC. LOCATED ON EXISTING SURFACES SCHEDULED TO BE REFINISHED. EXISTING ITEMS THAT ARE NOT REMOVABLE SHALL BE CAREFULLY TAPED, OR OTHERWISE COVERED DURING REFINISHING. WHERE NEW FINISHES ARE APPLIED EXISTING FINISHES NO LONGER VISIBLE SURROUNDING EXISTING ITEMS.
- PROVIDE HEAVY GAUGE METAL STRAPPING OR FIRE RATED BLOCKING WITHIN THE WALL CAVITY FOR ALL WALL MOUNTED EQUIPMENT, GRAB BARS, AND CABINETS.
- INSTALL SEALANT AND BACKER ROD AT ALL HORIZONTAL EDGES WHERE NEW AND/OR EXISTING WALLS MEET THE STRUCTURE ABOVE. ALSO ADD SEALANT AND BACKER ROD TO VERTICAL EDGES WHERE NEW AND/OR EXISTING WALLS MEET AND AT EXISTING DOOR LINTELS.
- PATCH AND REPAIR EXISTING WALLS. THE TOTAL AMOUNT OF PATCHING IS ASSUMED TO BE APPROXIMATELY 21 LINEAL FEET.

SHEET KEYNOTES

0203	EXISTING FLOOR DRAIN TO REMAIN
0212	EXISTING GREEN HOUSE ENCLOSURE. TO REMAIN.
0230	EXISTING GREEN HOUSE
0233	EXISTING VENTS TO REMAIN
0242	EXISTING ROOF TO REMAIN. TYPICAL
0401	PATCH AND SEAL WALL AT AREA OF MECH DUCT REMOVAL. MAINTAIN THE ASSUMED 1-HR FIRE-RATING OF WALL-VIF
0705	NEW INSULATED ROOF HATCH COVER
0802	NEW INSULATED FIBERGLASS DOOR. SEE DOOR SCHEDULE
0901	NEW LAB CASEWORK, UPPER AND BASE CABINET
0902	NEW LAB CASEWORK, UPPER AND BASE CABINET, NEW SOLID SURFACE COUNTERTOP
0903	SOLID SURFACE SPLASH GUARD
0904	NEW ACOUSTIC CEILING TILE
0905	NEW DRYWALL CEILING
0914	SCHEDULED FLOOR FINISH
0915	REINSTALL EXISTING CEILING SYSTEM AND CEILING MOUNTED DEVICES. REFER TO SHEET 0100
1203	2' H X 1'-6" W TACK BOARD
1206	UPPER STORAGE CABINET WITH ADJUSTABLE SHELVES
1207	EXISTING GARBAGE CONTAINER
1211	WALL-HUNG GLASSWARE PEGBOARDS, 18"X24" MODEL NO. 52L80500.
1212	FULL-HEIGHT LAB CASEWORK CABINETS
2201	NEW PLUMBING VENT THROUGH ROOF. SEE PLUMBING.
2202	EYE WASH, COUNTER TOP MOUNTED. SEE PLUMBING.
2203	SINK WITH IR SENSOR AND MANUAL SPRAYER. SEE PLUMBING.
2204	RE-INSTALL EXISTING STAINLESS STEEL COUNTERTOP AND INTEGRAL SINK. INSTALL NEW FAUCETS AND FOOT PEDAL CONTROL. SEE PLUMBING.
2205	NEW FLOOR DRAIN. SEE PLUMBING DRAWING.
2206	RECONNECT AND RE-INSTALL EXISTING WALL-MOUNTED EYEWASH. SEE PLUMBING.
2207	SINK WITH FOOT PEDAL CONTROL AND MANUAL SPRAYER. SEE PLUMBING DRAWING.
2209	WALL MOUNTED WASH-DOWN HOSE. SEE PLUMBING.
2210	PATCH AND FILL EXISTING PLUMBING PIPES. CUT CONCRETE. VERIFY NOT IN OPERATION AND PLUG PIPING.
2302	NEW ROOF EXHAUST OVER PRE MANUFACTURED CURB. SEE MECHANICAL SPEC AND DRAWING.



THIRD FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

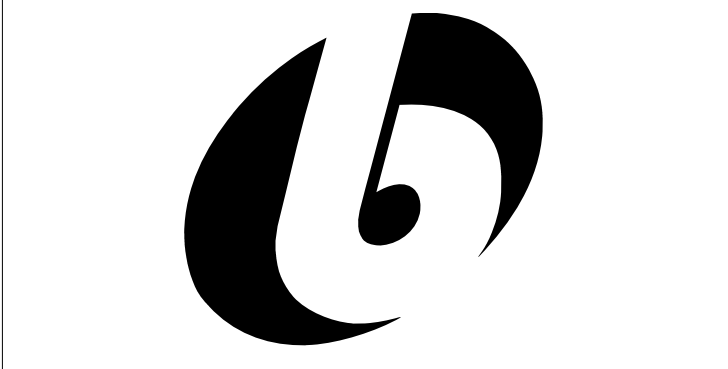
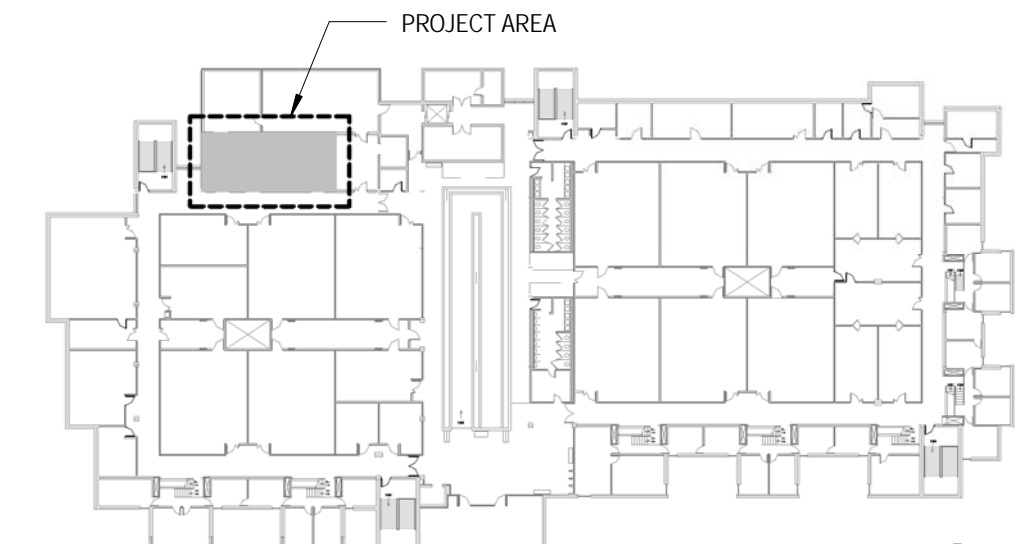
REFLECTED CEILING PLAN LEGEND

- 2x4 LIGHT FIXTURE
- MECH. SUPPLY DIFFUSER
- MECH. RETURN DIFFUSER
- RECESSED CAN LIGHT FIXTURE
- HEAT DETECTOR
- OCCUPANCY SENSOR
- GYPSUM BOARD CEILING
- 2X2 ACOUSTICAL CEILING TILE
- EXISTING CEILING TILE TO REMAIN

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME

KEY PLAN - THIRD FLOOR



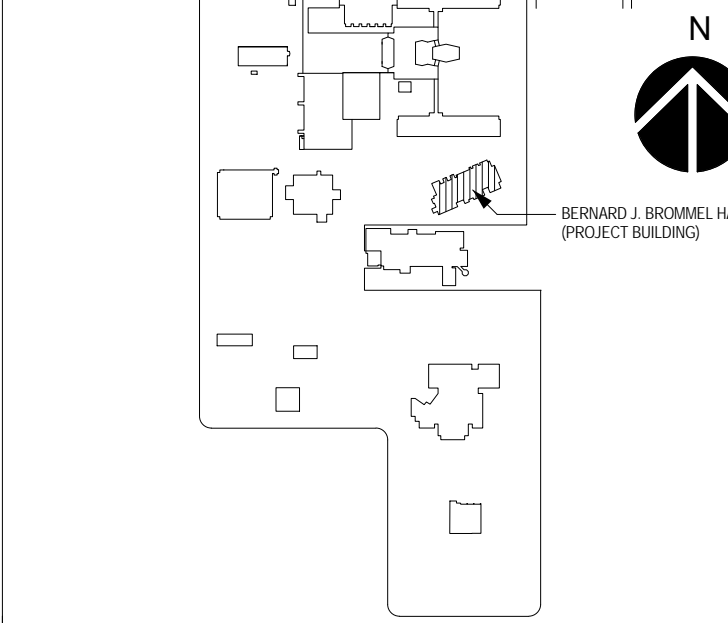
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Northeastern Illinois University
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PROJECT
VIVARIUM & MARINE ORGANISMS RENOVATION
NEIU # 11-0333-0213 BE # 1302-13-01
BUILDING ID/NAME: BERNARD J. BROMMEL HALL
ARCHITECTURAL FLOOR PLANS

DATE	4/24/2013	SCALE	As indicated
DRAWN BY	AJL	SHEET No.	A100
CHECKED BY	MP		6 of 23 SHEETS

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TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	WHEEL DIA. INCHES	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	BACKDRAFT DAMPER TYPE	CURB TYPE (NOTE G)	ELECTRICAL				MANUFACTURER	MODEL	REMARKS				
										BHP	MHP	VOLTAGE	PHASES				DISCONNECT		CONTROLLER/STARTER	
																	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)
EF-1	LAB SPACE	1150	0.50	13.5	1063	DIRECT	7.3	MFR	MFR	0.177	0.25	120	1	MFR	NF	ATC	FV	COOK	ACEB	NOTE 1, 2

- NOTES:
 1. PROVIDE WITH CURB ADAPTOR TO OFFSET W/ THROAT OF NEW FAN.
 2. INTERLOCK FAN OPERATION WITH EXISTING AHU SERVING SPACE.

TAG NAME	MATERIAL	CONFIGURATION	MARGIN (NOTE 1)	INLET SIZE (IN.)	FACE SIZE (IN.)	VOLUME DAMPER REQUIRED	FINISH	MANUFACTURER	MODEL	NOTES
CD-1	STEEL	PANEL FACE	LAY-IN	SEE DWG.	24x24	NO	WHITE	TITUS	OMNI	
EG-1	STEEL	35 DEGREE DEFLECTION	1 1/4"	SEE DWG.	INLET +2	NO	WHITE	TITUS	350R	

- NOTES:
 1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
 2. ALL RUN OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE UNLESS OTHERWISE NOTED.

VENTILATION SYMBOLS LIST	
SYMBOL:	DESCRIPTION:
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	NEW DUCT
	FLEX DUCT CONNECTION
	MANUAL VOLUME DAMPER
	SUPPLY/OUTSIDE AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	TERMINAL AIR BOX W/ REHEAT COIL (REFER TO SCHEDULE)
	EA EXHAUST/RELIEF AIR
	NC NEW CONNECTION

- GENERAL VENTILATION NOTES**
- CONTRACTOR SHALL COORDINATE DUCTWORK AND EQUIPMENT LOCATIONS WITH ALL TRADES AND EXISTING CONDITIONS.
 - CONTRACTOR SHALL COORDINATE EXISTING SYSTEM SHUT DOWNS WITH OWNER.
 - CUT AND PATCH WALLS AS REQUIRED FOR INSTALLATION OF DUCTWORK.
 - DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL DUCTWORK, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. READ ALL SPECIFICATIONS. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS.
 - CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKING REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES THAT ARE REQUIRED TO ELIMINATE CONFLICTS AND RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO THE OWNER.
 - CAULK ALL DUCT PENETRATIONS OF FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, FLOORS AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT DIFFERENT THAN THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.
 - ALIGN LIGHT SWITCHES AND TEMPERATURE SENSORS WHEN IN CLOSE PROXIMITY TO EACH OTHER.
 - PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

- KEYNOTES (#)**
- CAP EXISTING DUCTWORK AND REINSULATE TO MATCH EXISTING.
 - FURNISH AND INSTALL NEW ROOF MOUNTED EXHAUST FAN. CONTRACTOR SHALL PROVIDE CURB ADAPTOR TO EXISTING ROOF CURB TO MATCH THROAT DIMENSIONS OF NEW FAN. VERIFY EXACT SIZE AND OFFSET REQUIREMENTS IN FIELD. COORDINATE SIZES WITH FAN MANUFACTURER.

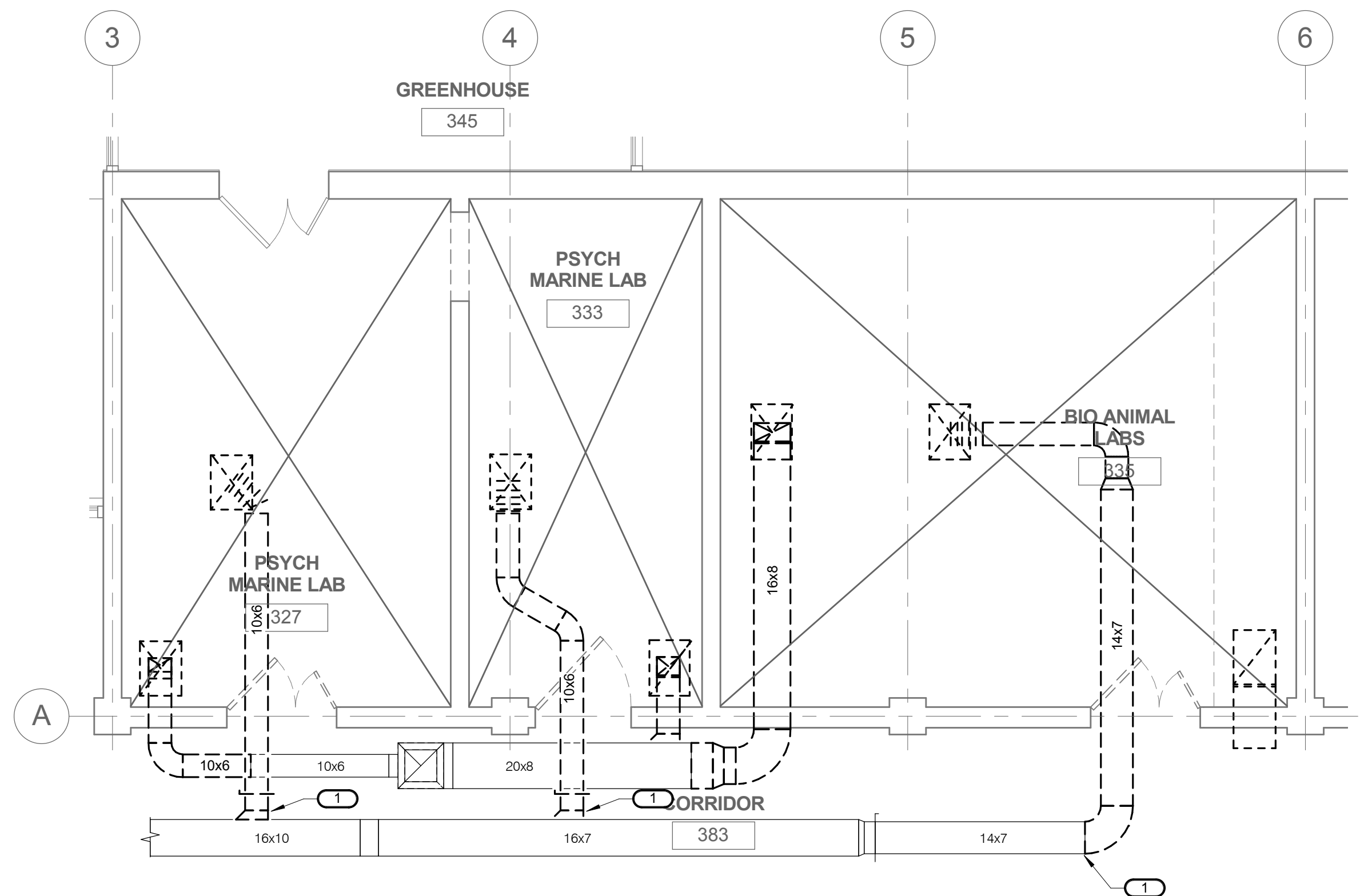
SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
 MFR = MANUFACTURER
 ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR

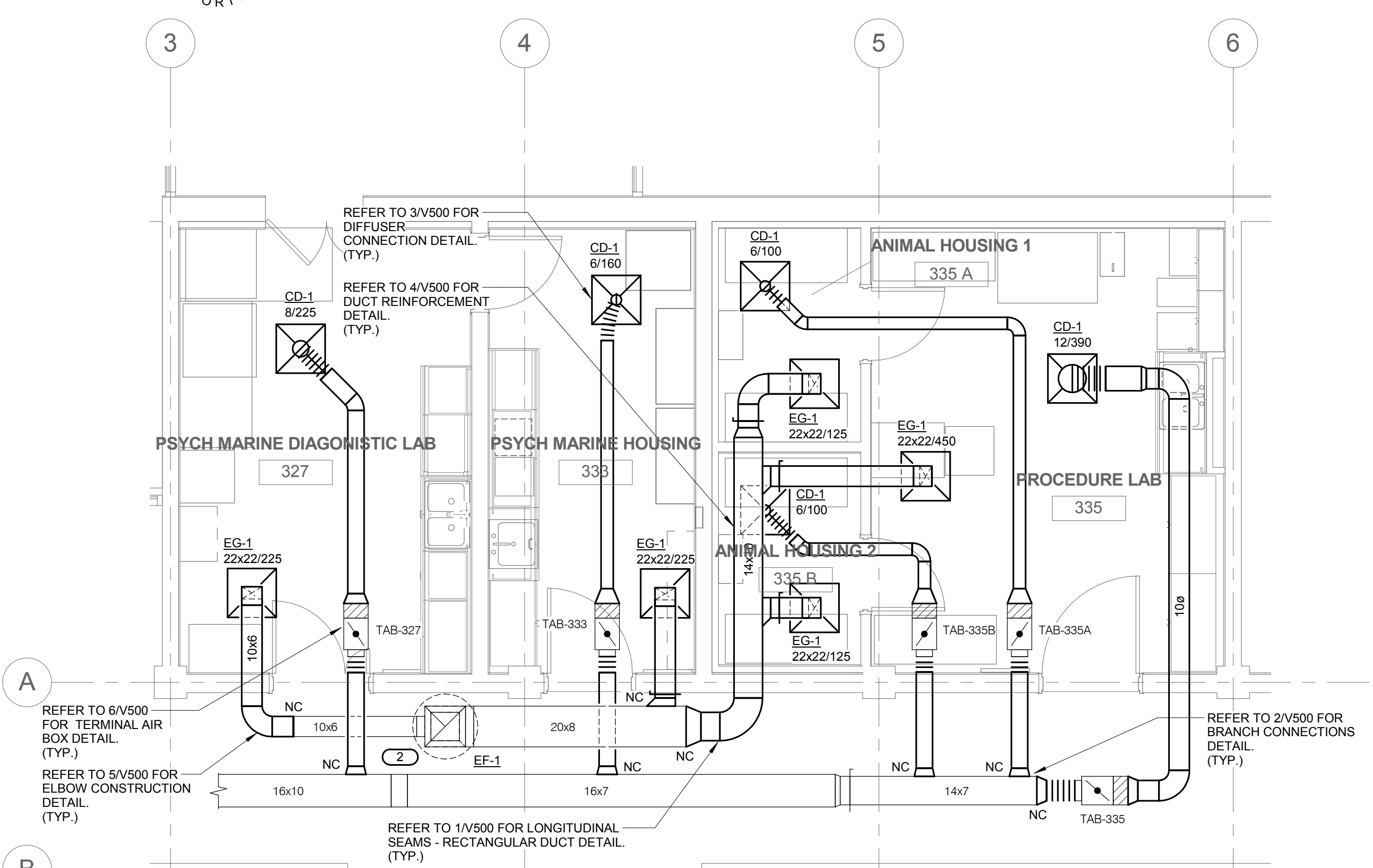
B. DISCONNECT TYPE:
 F = FUSED
 NF = NON-FUSED
 FV = FULL VOLTAGE

C. CONTROLLER STARTER TYPE:

- VENTILATION DEMOLITION NOTES:**
- THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF DEMOLITION WORK REQUIRED AND DO NOT INDICATE EVERY DUCT, OR PIECE OF EQUIPMENT THAT MUST BE REMOVED. ACCESSIBILITY OF EQUIPMENT AND SYSTEMS IS NOT SHOWN NOR SHOULD IT BE INFERRED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING SYSTEM DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.
 - CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PENETRATIONS CREATED BY REMOVAL OF EQUIPMENT, DUCTWORK, ETC. TO MATCH EXISTING. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PATCH TO MATCH ORIGINAL CONSTRUCTION. VERIFY ALTERNATIVE OR SPECIAL REPAIR METHODS WITH ARCHITECT/ENGINEER BEFORE PROCEEDING WITH DEMOLITION.
 - CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING DUCTWORK NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
 - EXTEND EXISTING INSTALLATIONS USING MATERIAL AND METHODS COMPATIBLE WITH EXISTING MECHANICAL INSTALLATIONS, OR AS SPECIFIED FOR INTENDED SERVICE.
 - REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
 - REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC., AND DUCT REMOVAL.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
 - MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.



1 THIRD FLOOR PLAN - VENTILATION DEMOLITION
 1/4" = 1'-0"



2 THIRD FLOOR PLAN - VENTILATION
 1/4" = 1'-0"

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 NAPERVILLE, ILLINOIS 60563
 PROJECT # 13.0146.00
 Illinois Design Firm Registration #184-000973
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PROJECT NOTES

1. CAP EXISTING DUCTWORK AND REINSULATE TO MATCH EXISTING.
2. FURNISH AND INSTALL NEW ROOF MOUNTED EXHAUST FAN. CONTRACTOR SHALL PROVIDE CURB ADAPTOR TO EXISTING ROOF CURB TO MATCH THROAT DIMENSIONS OF NEW FAN. VERIFY EXACT SIZE AND OFFSET REQUIREMENTS IN FIELD. COORDINATE SIZES WITH FAN MANUFACTURER.



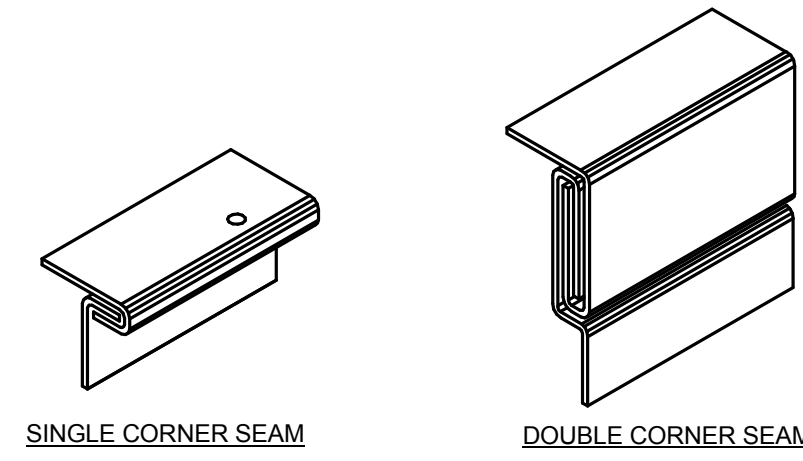
REVISIONS		
NO.	DATE	DESCRIPTION
1	4/24/2013	ISSUED FOR BID
2	5/02/2013	ISSUED FOR ADDENDUM #1

Northwestern Illinois University
 5500 NORTH ST. LOUIS AVENUE
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 FACSIMILE: 773/442-5280

PROJECT
 NEIU - VIVARIUM & MARINE ORGANISMS RENOVATION
 NEIU # 11-0333-0213 BE # 1302-13-01
 BUILDING ID/NAME: BERNARD J. BROMMEL HALL
THIRD FLOOR PLANS - VENTILATION

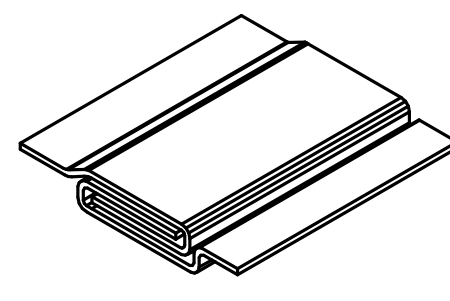
DATE: APRIL 24, 2013 SCALE: As indicated
 DRAWN BY: DAH SHEET No. V100
 CHECKED BY: BMF 13 of 23 SHEETS

K:\JW\13.0146.00 - NEIU - Vivarium & Marine Organisms Renovation - 11.03.13.0146.00\Revit\3\WEDT13_13.0146.00\Revit\3\WEDT13_13.0146.00_NEIU_ScienceLabs_Central.rvt

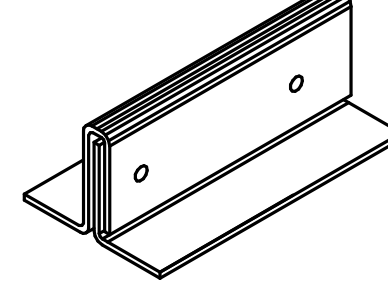


SINGLE CORNER SEAM

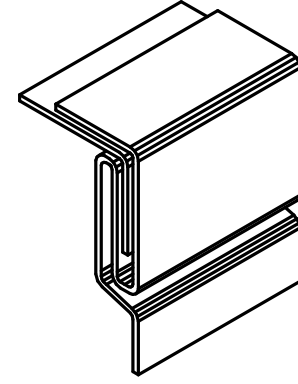
DOUBLE CORNER SEAM



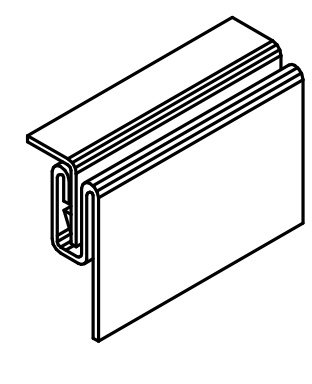
GROOVED SEAM



STANDING SEAM



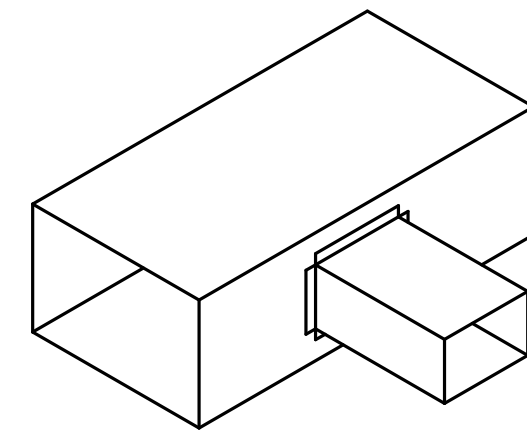
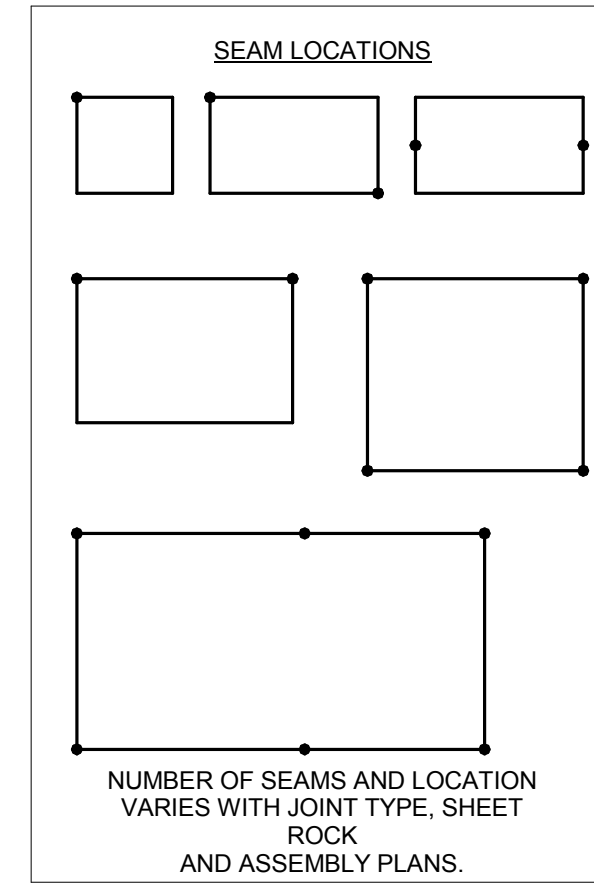
PITTSBURGH LOCK



BUTTON PUNCH SNAP LOCK

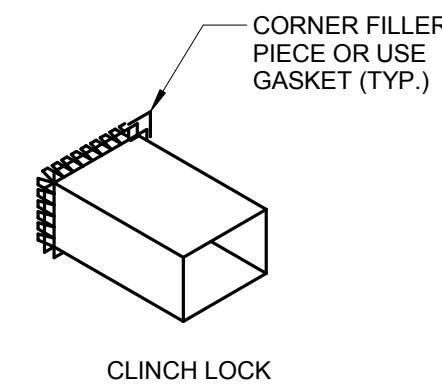
1 LONGITUDINAL SEAMS - RECTANGULAR DUCT

NO SCALE
NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

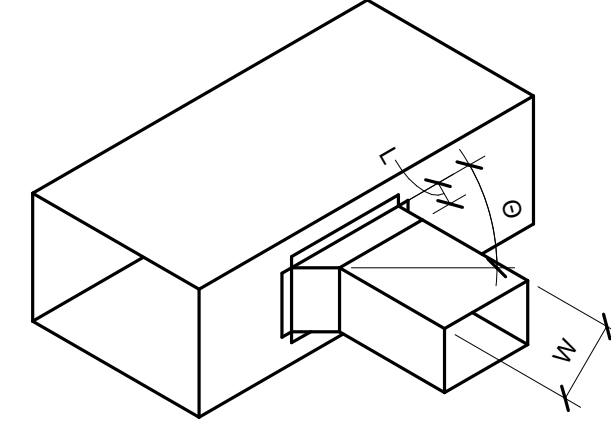


STRAIGHT TAP BUTT FLANGE

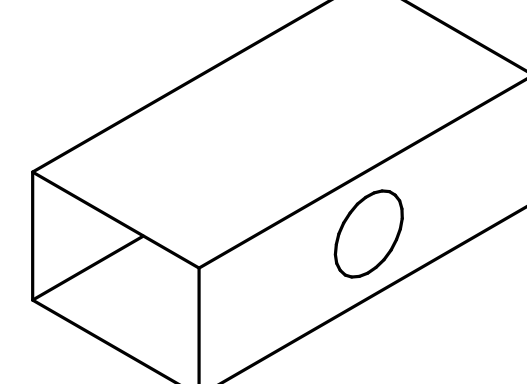
NOTE STRAIGHT TAP WITH BUTT FLANGE FOR BRANCH AND TEE CONNECTION IN RECTANGULAR DUCTS UNDER 1" PRESSURE CLASS ONLY.



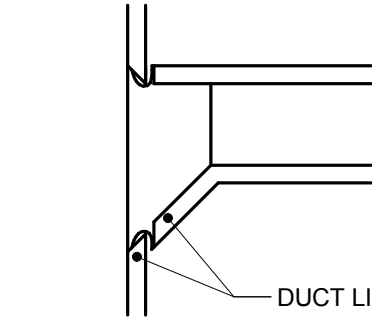
CLINCH LOCK



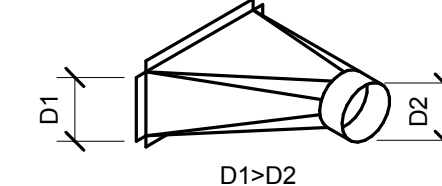
45 DEGREE ENTRY @ 45° (L = 4" OR W/4, WHICHEVER IS LARGER)



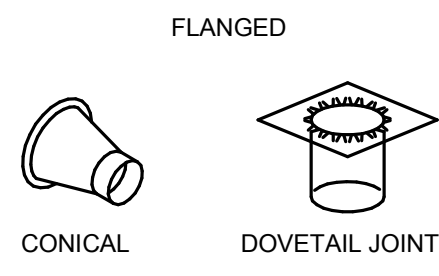
45 DEGREE ENTRY @ 45°



LINED DUCT CONNECTION (NO EXPOSED LINER EDGES)



45 DEGREE LEAD IN

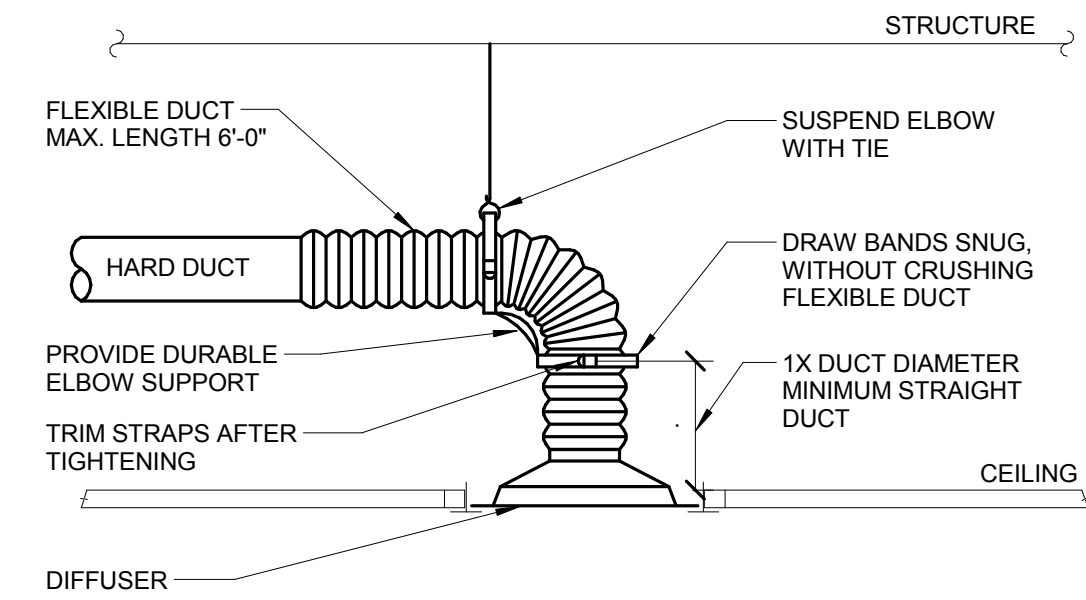


CONICAL

DOVETAIL JOINT

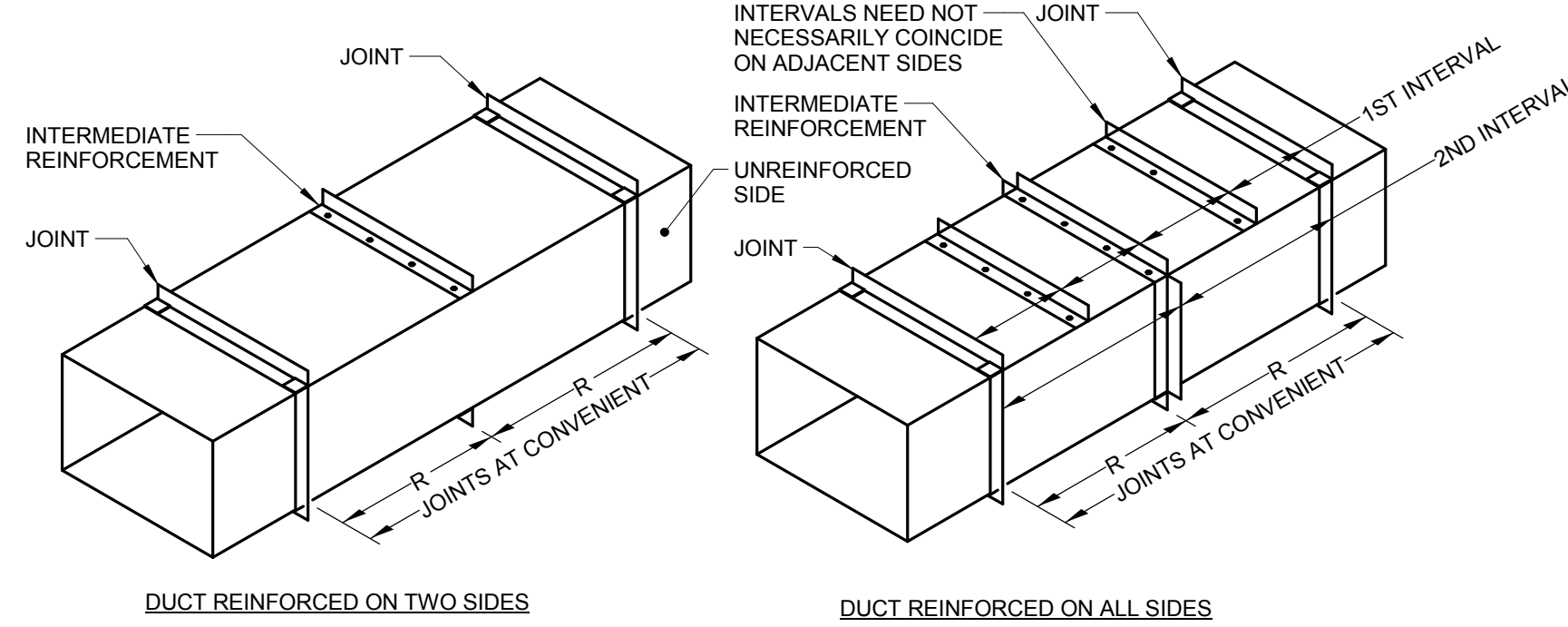
2 BRANCH CONNECTIONS

NO SCALE
NOTES:
1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



3 DIFFUSER CONNECTION DETAIL

NO SCALE
NOTES:
1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS, ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. "SMARTFLOW" ELBOW (WWW.HARTANDCOOLEY.COM), THERMAFLEX "FLEXFLOW" (WWW.THERMAFLEX.BE/FLEXFLOW_ELBOU.PHP?AUD) AND "FLEXRIGHT" (WWW.TITUS-HVAC.COM) ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW SUPPORT.

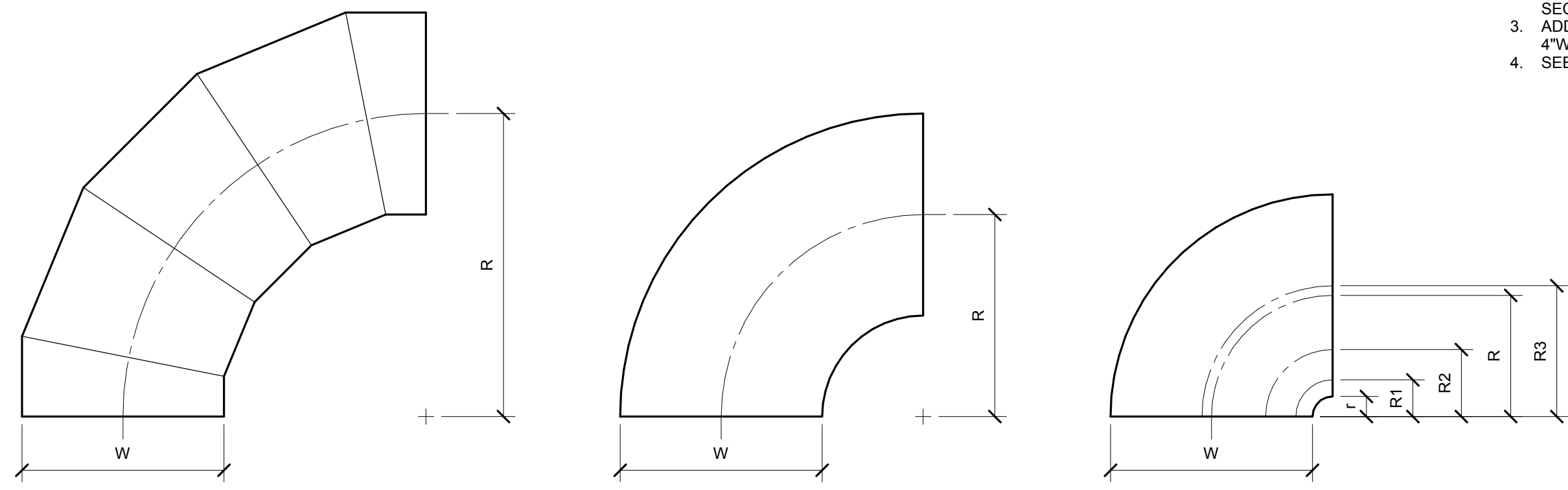


DUCT REINFORCED ON TWO SIDES

DUCT REINFORCED ON ALL SIDES

4 DUCT REINFORCEMENT DETAIL

NO SCALE
NOTES:
1. 'R' IS AN ALLOWABLE REINFORCEMENT INTERVAL.
2. TOP AND BOTTOM JOINTS MUST QUALIFY AS REINFORCEMENT.
3. DUCT SIZES 19" WIDE AND LARGER WHICH HAVE MORE THAN 10 SQ. FT. OF UNBRACED PANEL SHALL BE BEADED OR CROSS BROKEN UNLESS DUCT WILL HAVE INSULATION COVERING OR ACOUSTICAL LINER. THIS REQUIREMENT IS APPLICABLE TO 20 GAUGE OR LESS THICKNESS AND 3" W.G. OR LESS.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

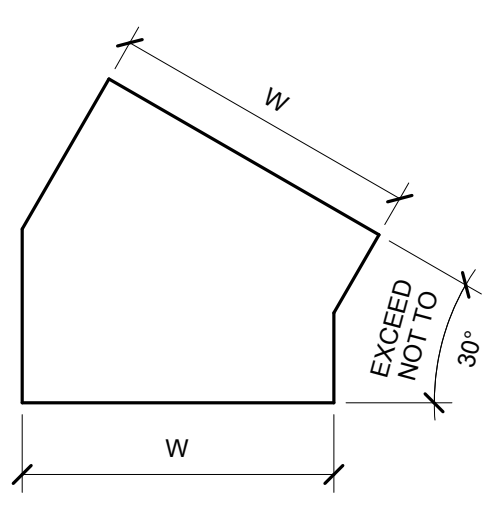


OVAL / ROUND RADIUS ELBOW SMOOTH OR 5 GORE (MINIMUM) RW = 1.5 (MINIMUM)

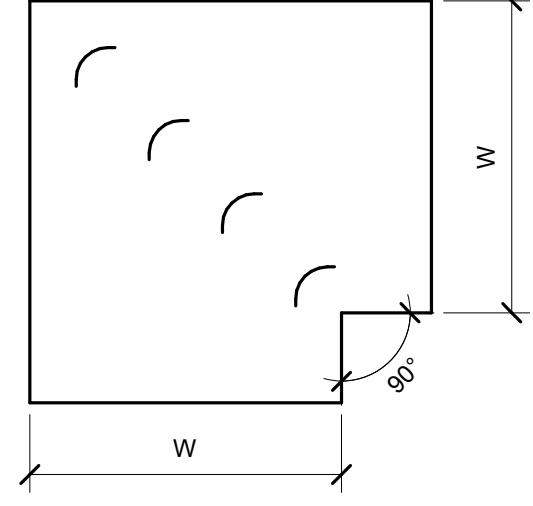
RECTANGULAR RADIUS ELBOW TYPE RE1 RW = 1.0 (MINIMUM) RW < 1.0 SHALL BE TYPE RE3

RECTANGULAR RADIUS ELBOW WITH VANES TYPE RE3

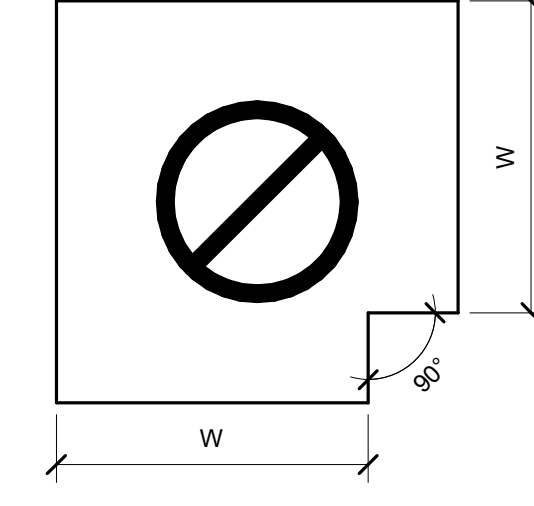
REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND RW = 0.10 (RW = 0.60) UNLESS NOTED OTHERWISE.



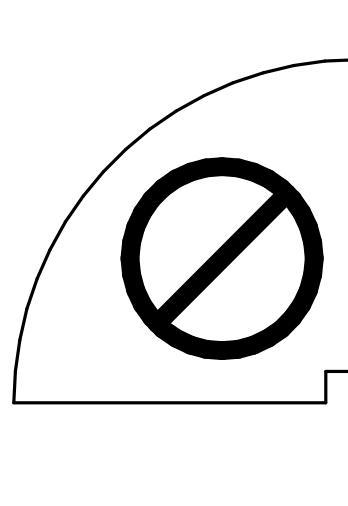
RECTANGULAR MITERED ELBOW WITH VANES TYPE RE2



RECTANGULAR MITERED ELBOW WITHOUT VANES TYPE RE4



RECTANGULAR / OVAL / ROUND MITERED ELBOW WITHOUT VANES TYPE RE4 NOT ALLOWED

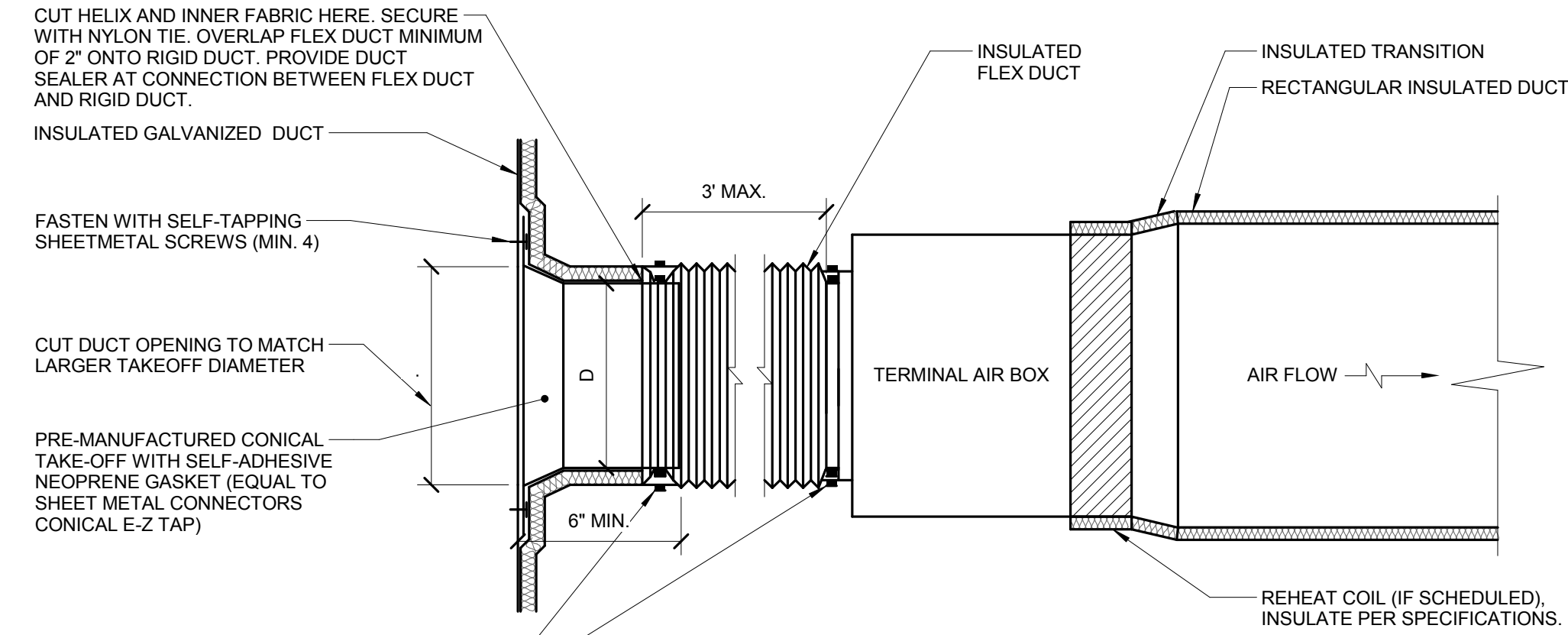


RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT NOT ALLOWED

USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

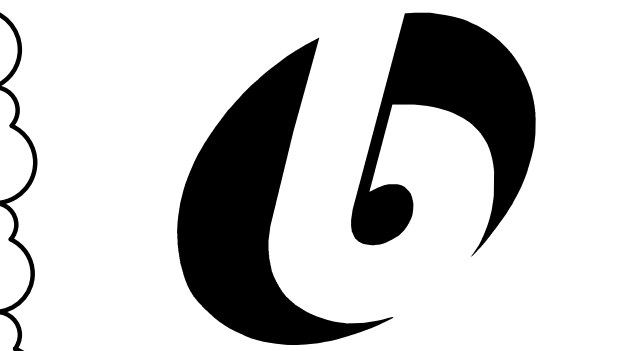
5 ELBOW CONSTRUCTION

NO SCALE
NOTES:
1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.



6 TERMINAL AIR BOX DETAIL (WRAPPED MAIN)

NO SCALE
NOTES:
1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.
2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER UPSTREAM.
4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.



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PROJECT NOTES

REVISIONS		
NO.	DATE	DESCRIPTION
1	4/24/2013	ISSUED FOR BID
2	5/02/2013	ISSUED FOR ADDENDUM #1

SITE PLAN

N Northeastern Illinois University
5500 NORTH ST. LOUIS AVENUE
CHICAGO, IL 60625
TELEPHONE: 773/442-5230
FASCIMILE: 773/442-5280

PROJECT
NEIU - VIVARIUM & MARINE ORGANISMS RENOVATION

NEIU # 11-0333-0213 BE # 1302-13-01

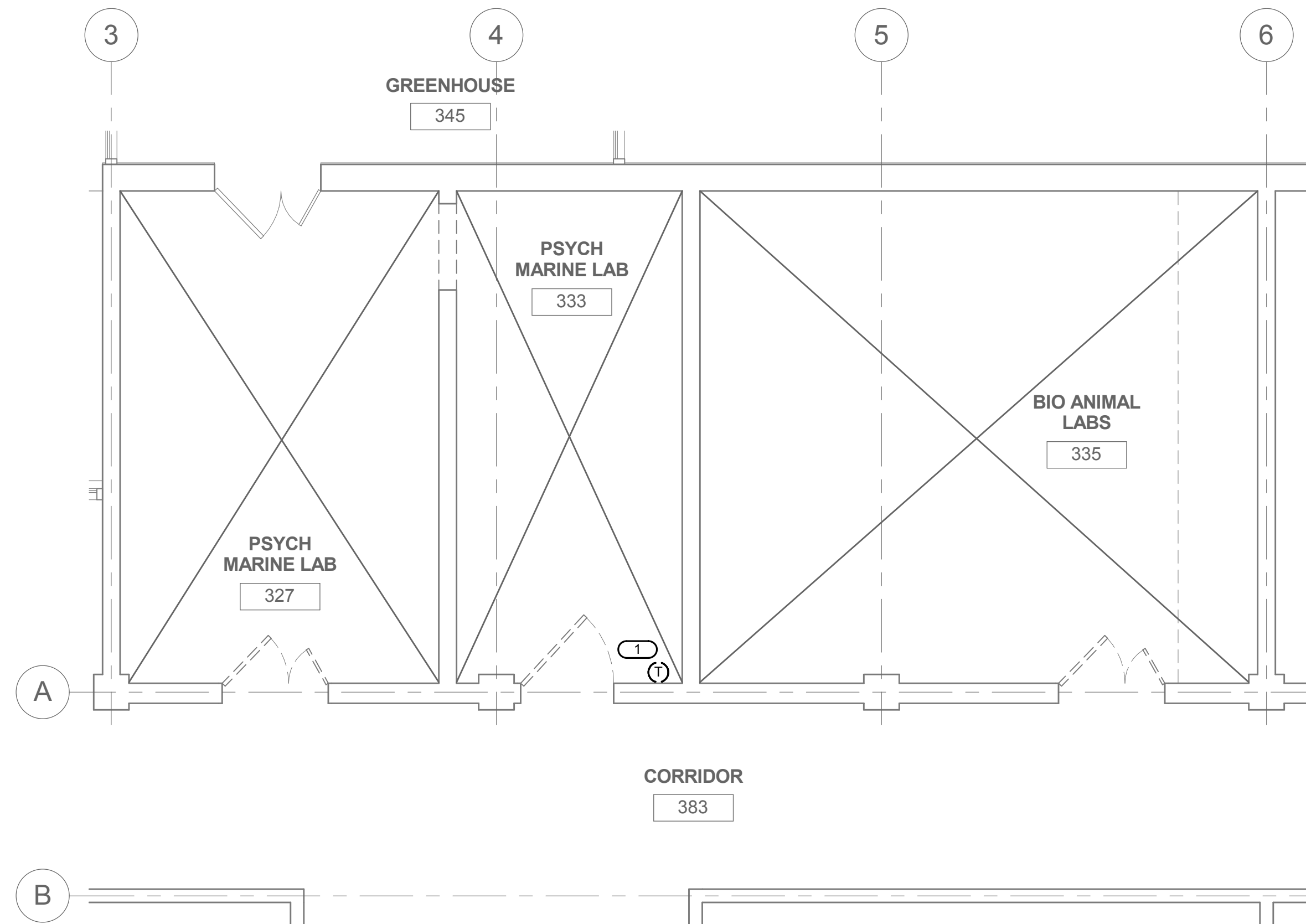
BUILDING ID NAME: BERNARD J. BRONNELL HALL

VENTILATION DETAILS

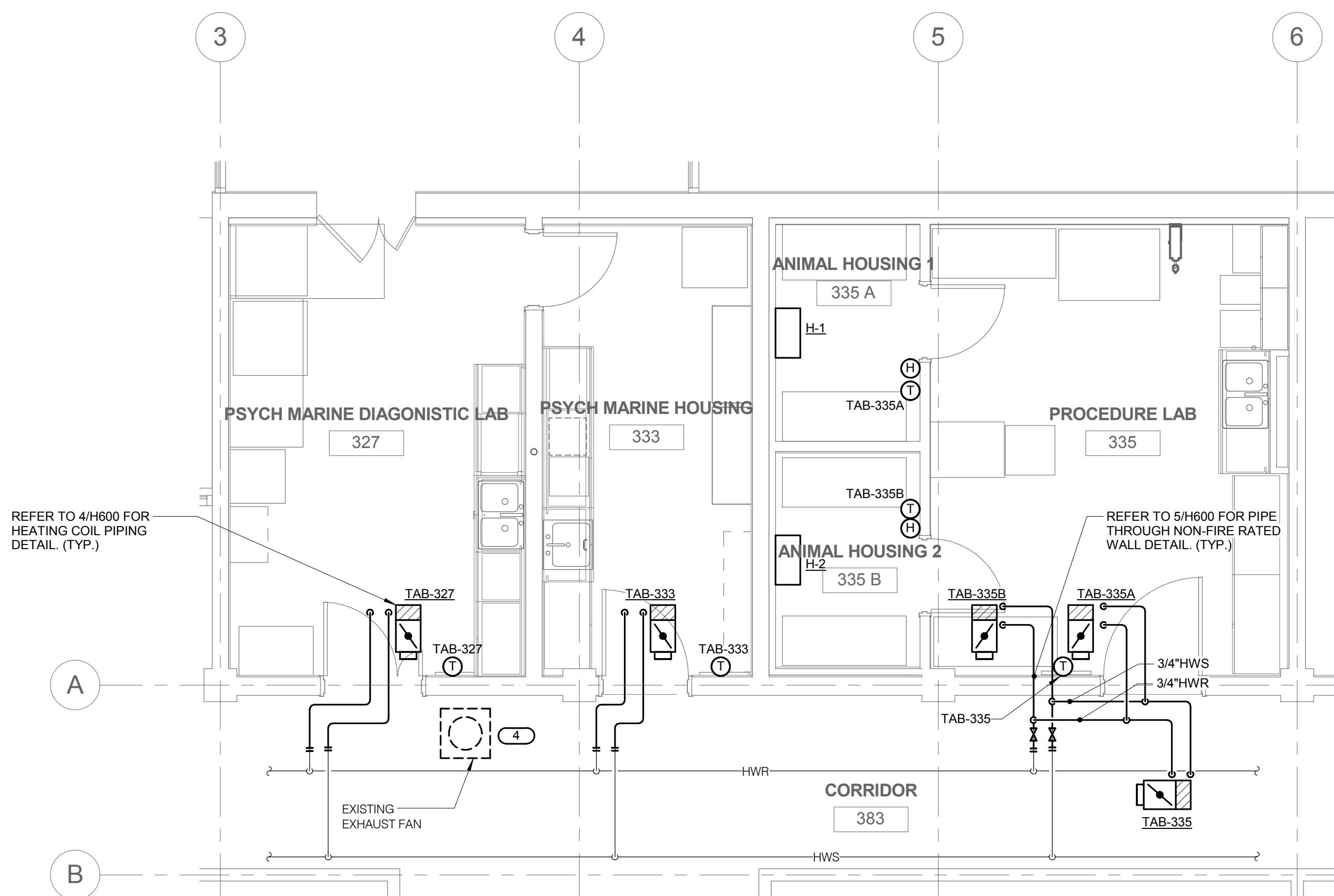
DATE: APRIL 24, 2013 SCALE: 12" = 1'-0"

DRAWN BY: DAH
CHECKED BY: BMF
SHEET No. V500
14 of 23 SHEETS

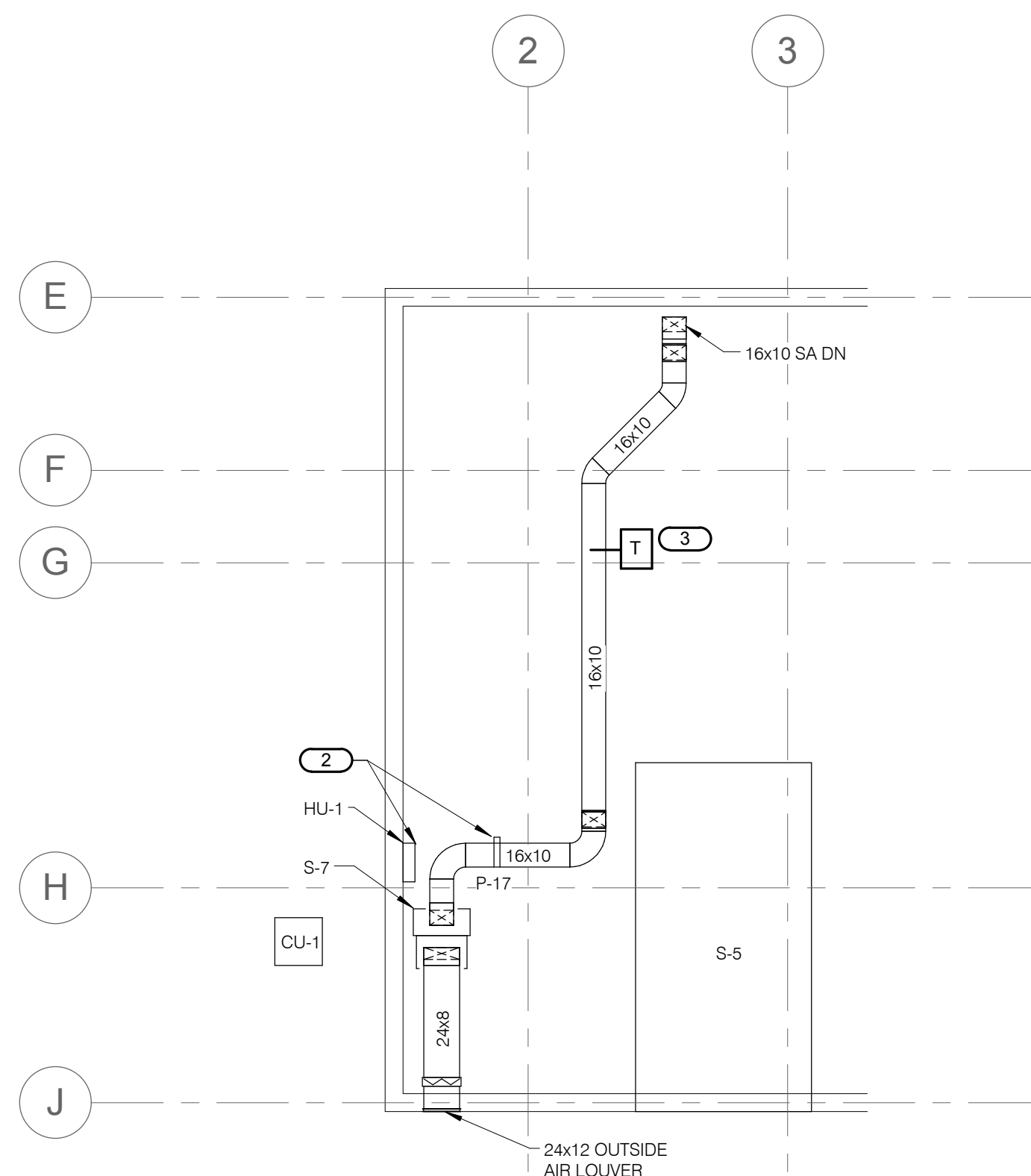
KJW # 13.0146.00 - NEIU - Vivarium & Marine Organisms Renovation, IL, Naperville, IL, 1313.0146.00 Rev 13.0146.00, NEIU Science Labs - Central



1 THIRD FLOOR PLAN - HEATING DEMOLITION
1/4" = 1'-0"



2 THIRD FLOOR PLAN - HEATING
1/4" = 1'-0"



3 PENTHOUSE FLOOR PLAN - HEATING
1/8" = 1'-0"

EXISTING MECHANICAL EQUIPMENT SCHEDULE - FOR REFERENCE ONLY

S-7	EXISTING AIR HANDLING UNIT
FAN CAPACITY:	950 CFM @ 2.2 INCH TSP, 1 HP 208-3-60 MOTOR
COOLING COIL:	6 ROW, 14 FINS/INCH HALF CIRCUIT, DX EAT 95°F DB & 75°F WB, LAT 55°F DB & 54°F WB TOTAL COOLING 67.7 MBH, SENSIBLE COOLING 41.0 MBH APD 0.92 IN W.G.
HEATING COIL:	2 ROW, 8 FINS/INCH FULL CIRCUIT, EWT 200°F, 9.1 GPM FLOW, 0.32 FT. HEAD W.P.D., EAT -10°F, LAT 80°F, 92 MBH CAPACITY, APD 0.93 INCHED W.G.
FILTERS:	2 INCH THICK THROW-AWAY TYPE
CV-1	EXISTING AIR COOLED CONDENSING UNIT
	COOLING CAPACITY 68 MBH, R22 REFRIG., 40F SATURATED SUCTION TEMPERATURE, 7.2 KW COMPRESSOR POWER INPUT, 1/2 HP, 1075 RPM CONDENSER FAN, 208-3-60.
P-17	EXISTING IN-LINE PUMP
	CAPACITY: 10 GPM @ 21 FT HEAD, 1/4" HP, 1750 RPM, 115-1-60 MOTOR.
HU-1	EXISTING ELECTRIC HUMIDIFIER (TO BE REMOVED)
	MINIMUM CAPACITY: 5 LBS STEAM/HR, MAXIMUM CAPACITY: 30 LBS/HR, ELECTRICAL INPUT: 10 KW AT MAXIMUM OUTLET 208-3-60.

HEATING SYMBOLS LIST

SYMBOL:	DESCRIPTION:
—	EXISTING TO REMAIN
- - - - -	EXISTING TO BE REMOVED
---	NEW
[###]	TERMINAL AIR BOX W/REHEAT COIL (REFER TO SCHEDULE)
(H)	HUMIDISTAT SENSOR
(T)	THERMOSTAT/SENSOR
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
—	PIPE CAP
— —	PIPE DOWN
— —	PIPE UP OR UP/DOWN
— — —	NEW CONNECTION
— — —	SHUTOFF VALVE NORMALLY OPEN
— — — —	BALANCING VALVE (NO. INDICATES GPM)
— — — —	CONTROL VALVE (TWO-WAY)
— — — — —	UNION/FLANGE
— — — — —	"WYE" - STRAINER
— — — — — —	DRAIN VALVE WITH HOSE CONNECTION AND CAP
NC	NEW CONNECTION

- KEYNOTES (#)**
- DISCONNECT AND REMOVE EXISTING THERMOSTAT CONTROLLING AIR HANDLING UNIT S-7 LEAVING AIR TEMPERATURE. CONFIRM EXACT OPERATION OF CONTROLS IN FIELD PRIOR TO DEMOLITION. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL DISCONNECT AND REMOVE HUMIDIFIER LOCATED IN PENTHOUSE. CUT BACK DOMESTIC WATER FEED TO MAIN AND CAP. REMOVE ALL ASSOCIATED STEAM RELATED PIPING AND DISPERSION MANIFOLD. REMOVE ALL POWER AND CONTROL RELATED ACCESSORIES.
 - CONTRACTOR SHALL PROVIDE NEW DUCT MOUNTED AIRSTREAM THERMOSTAT WHERE INDICATED. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROLS, HARDWARE AND ACCESSORIES TO INTERLOCK WITH EXISTING AIR HANDLING UNIT S-7. UNIT SHALL MAINTAIN A LEAVING AIR TEMPERATURE OF 55°F. REFER TO CONTROLS SPECIFICATION 23 09 00 FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL INTERLOCK EXHAUST FAN OPERATION WITH EXISTING AIR HANDLER S-7 CURRENTLY SERVING SPACE. FAN SHALL OPERATE WHEN AIR HANDLER OPERATES. PROVIDE ALL NECESSARY WIRING, RELAYS, DEVICES, AND OTHER RELATED CONTROLS FOR APPROPRIATE OPERATION.

- GENERAL HEATING DEMOLITION NOTES**
- FIELD VERIFY ALL EQUIPMENT PRIOR TO DEMOLITION. REPORT ANY DISCREPANCIES FOUND TO THE ARCHITECT OR ENGINEERING TEAM.
 - THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF DEMOLITION WORK REQUIRED AND DO NOT INDICATE EVERY PIPE, OR PIECE OF EQUIPMENT THAT MUST BE REMOVED. ACCESSIBILITY OF EQUIPMENT AND SYSTEMS IS NOT SHOWN NOR SHOULD IT BE INFERRED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING SYSTEM DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.
 - CONTRACTOR TO COORDINATE WITH OWNER FOR ALL MECHANICAL SERVICE OUTAGES. EXISTING WATER SYSTEM IS COMPLETE AND READY FOR SERVICE. DRAIN SYSTEM IS TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MINIMIZE OUTAGE DURING OPERATION.
 - CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PENETRATIONS CREATED BY REMOVAL OF EQUIPMENT, PIPING, ETC. TO MATCH EXISTING. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PATCH TO MATCH ORIGINAL CONSTRUCTION. VERIFY ALTERNATIVE OR SPECIAL REPAIR METHODS WITH ARCHITECT/ENGINEER BEFORE PROCEEDING WITH DEMOLITION.
 - CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING HVAC PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
 - EXTEND EXISTING INSTALLATIONS USING MATERIAL AND METHODS COMPATIBLE WITH EXISTING MECHANICAL INSTALLATIONS, OR AS SPECIFIED FOR INTENDED SERVICE.
 - REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
 - REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
 - MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS WHILE REMAINING ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

- GENERAL HEATING NOTES**
- CONTRACTOR SHALL COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH ALL TRADES AND EXISTING CONDITIONS.
 - CONTRACTOR SHALL COORDINATE EXISTING SYSTEM SHUT DOWNS WITH OWNER.
 - CUT AND PATCH WALLS AS REQUIRED FOR INSTALLATION OF PIPING.
 - ALL HOT WATER SUPPLY AND HOT WATER RETURN PIPING TO BE MINIMUM 3/4" DIAMETER UNLESS INDICATED OTHERWISE.
 - DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. READ ALL SPECIFICATIONS. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS.
 - CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKING REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES THAT ARE REQUIRED TO ELIMINATE CONFLICTS AND RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO THE OWNER.
 - CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, FLOORS AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT DIFFERENT THAN THE BASIS OF DESIGN.
 - TERMINAL AIR BOX (TAB) NUMBER OR REHEAT COIL NUMBER IS SHOWN ADJACENT TO THERMOSTAT ONLY WHEN THE TAB OR COIL WHICH THE THERMOSTAT IS CONTROLLING IS AMBIGUOUS.
 - ALIGN LIGHT SWITCHES AND TEMPERATURE SENSORS WHEN IN CLOSE PROXIMITY TO EACH OTHER.

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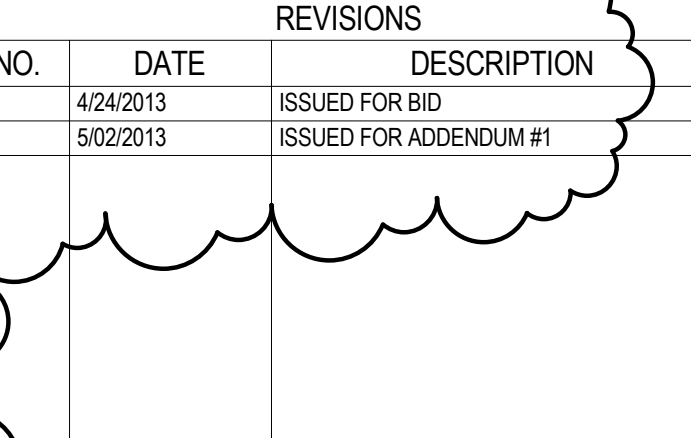
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REFERENCE SCALE IN INCHES

PROJECT NOTES

REVISIONS

NO.	DATE	DESCRIPTION
1	4/24/2013	ISSUED FOR BID
2	5/02/2013	ISSUED FOR ADDENDUM #1



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PROJECT
 NEIU - VIVARIUM & MARINE ORGANISMS RENOVATION
 NEIU # 11-0333-0213 BE # 1302-13-01
BUILDING ID/NAME BERNARD J. BROMMEL HALL
THIRD FLOOR PLANS - HEATING
 DATE APRIL 24, 2013 SCALE As indicated
 DRAWN BY DAH SHEET No. H100
 CHECKED BY BMF 15 of 23 SHEETS

KJW # 13.0146.00 - NEIU - Vivarium & Marine Organisms Renovation - 11-0333-0213-13.0146.00-Revit3-WPEP13 - 13.0146.00-NEIU_Sciences_Labs_Central.plt

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT																
TAG NAME	AREA SERVED	CFM			EAT °F	HEATING COIL (NOTES 3 & 4)			MIN. INLET SIZE (IN.)			CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL	NOTES
		COOLING MAX.	HEATING MAX.	MIN.		LAT °F	EWT °F	MAX. GPM	DIA.	WIDTH	HEIGHT					
TAB-327	ROOM 327	225	225	225	55.0	100.0	180	1.0	8"	NA	NA	1/H600	1	TITUS	DESV	NOTES 1, 2, 5
TAB-333	ROOM 333	160	160	160	55.0	95.0	180	0.7	8"	NA	NA	1/H600	1	TITUS	DESV	NOTES 1, 2, 5
TAB-335	ROOM 335	390	390	390	55.0	95.0	180	1.7	10"	NA	NA	1/H600	1	TITUS	DESV	NOTES 1, 2, 5
TAB-335A	ROOM 335A	100	100	100	55.0	95.0	180	0.5	8"	NA	NA	1/H600	1	TITUS	DESV	NOTES 1, 2, 5
TAB-335B	ROOM 335B	100	100	100	55.0	95.0	180	0.5	8"	NA	NA	1/H600	1	TITUS	DESV	NOTES 1, 2, 5

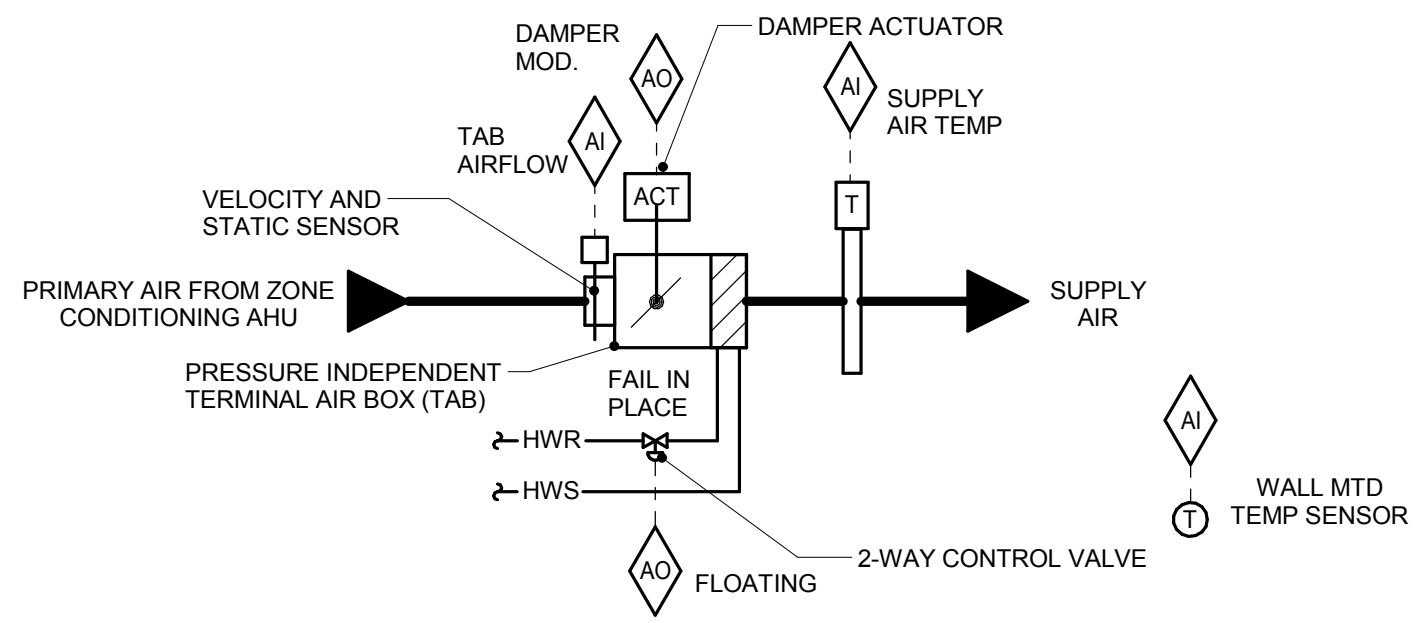
NOTES:
 1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5' INLET STATIC PRESSURE WHEN TESTED PER ARI STANDARD 885-98 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
 2. TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
 3. SENSOR TYPES: 1 - SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.
 4. HEATING COIL IS BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS. WHEN LAT °F, EWT °F, AND GPM VALUES ARE BLANK, HEATING COIL IS NOT REQUIRED FOR TAB.
 5. BOX SHALL NOT COME WITH MANUFACTURER PROVIDED CONTROLS. BOX SHALL BE EQUIPPED WITH LOW VOLTAGE SCHNEIDER ELECTRIC INET CONTROLLERS IN ORDER TO INTEGRATE WITH EXISTING CAMPUS BUILDING CONTROLS SYSTEM. COORDINATE ALL REQUIREMENTS FOR FULL OPERATION WITH STEVE RICKLIFF - (630)-690-3900. CONTROLLER SHALL BE SHIPPED TO AND INSTALLED IN FACTORY.

SCHEDULE GENERAL NOTES:
 A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
 MFR = MANUFACTURER
 ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR
 B. DISCONNECT TYPE:
 F = FUSED
 NF = NON-FUSED
 C. CONTROLLER STARTER TYPE:
 FV = FULL VOLTAGE

CONTROL SYMBOLS LIST	
SYMBOL:	DESCRIPTION:
	ACTUATOR
	TEMPERATURE SENSOR
	THERMOSTAT
	HUMIDISTAT
	TERMINAL AIR BOX W/REHEAT COIL
	ANALOG INPUT
	ANALOG OUTPUT
	DIGITAL INPUT
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	CONTROL VALVE (TWO-WAY)

HUMIDIFIER SCHEDULE - ELECTRIC														
TAG NAME	AREA SERVED	CAPACITY (LBS/HR)	DUCT SIZE	MANIFOLD LENGTH	NUMBER OF CIRCUITS	KW PER CIRCUIT	KW	VOLT-PHASE	DISCONNECT		CONTROLLER/STARTER BY (NOTE A)	MANUFACTURER	MODEL	NOTES
									BY (NOTE A)	TYPE (NOTE B)				
H-1	335A	5	NOTE 1	NOTE 1	1	1.9	1.9	120-1	MFR	F	MFR	NORTEC	NHT	NOTES 1, 2, 3
H-2	335B	5	NOTE 1	NOTE 1	1	1.9	1.9	120-1	MFR	F	MFR	NORTEC	NHT	NOTES 1, 2, 3

NOTES:
 1. PROVIDE WITH BUILT ON UNIT MOUNTED BLOWER PACK. ENTIRE UNIT SHALL HAVE SINGLE POINT POWER CONNECTION.
 2. PROVIDE A DRAIN LINE WITH DRAIN WATER COOLER FOR STEAM GENERATOR DISCHARGE.
 3. REFER TO 3/H600 FOR HUMIDIFIER CONTROLS.



SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER TO MAINTAIN CONSTANT SUPPLY AIRFLOW TO THE ROOM AS SCHEDULED.
- FMCS TAB CONTROLLER SHALL MODULATE TAB HW REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 2°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS.

ALARMS, INTERLOCKS & SAFETIES:

- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 3°F (ADJ.) ABOVE OR BELOW SETPOINT.

1 CONSTANT VOLUME TAB CONTROL
NO SCALE

TERMINAL AIR BOX REPORT & DUCT MOUNTED HOT WATER REHEAT COIL GENERATION:
 DDC FMCS SHALL BE PROGRAMMED TO GENERATE THE FOLLOWING REPORT BASED ON A MANUAL COMMAND FROM THE DDC FMCS WORKSTATION BY CLICKING ON A GRAPHICAL BUTTON. UPON INITIATING COMMAND THE DDC FMCS SHALL COMPILER A REPORT AS FOLLOWS:

TAB/COIL SYMBOL	AIRFLOW (CFM)	DMPR POS (% OPEN)	VALVE POS (DEG. F)	SUP AIR TEMP (DEG. F)	ROOM TEMP (DEG. F)	ROOM SETPOINT (DEG. F)
***	*****	85%	10%	65.2	73.6	72.0
***	*****	80%	60%	75.1	71.1	72.0

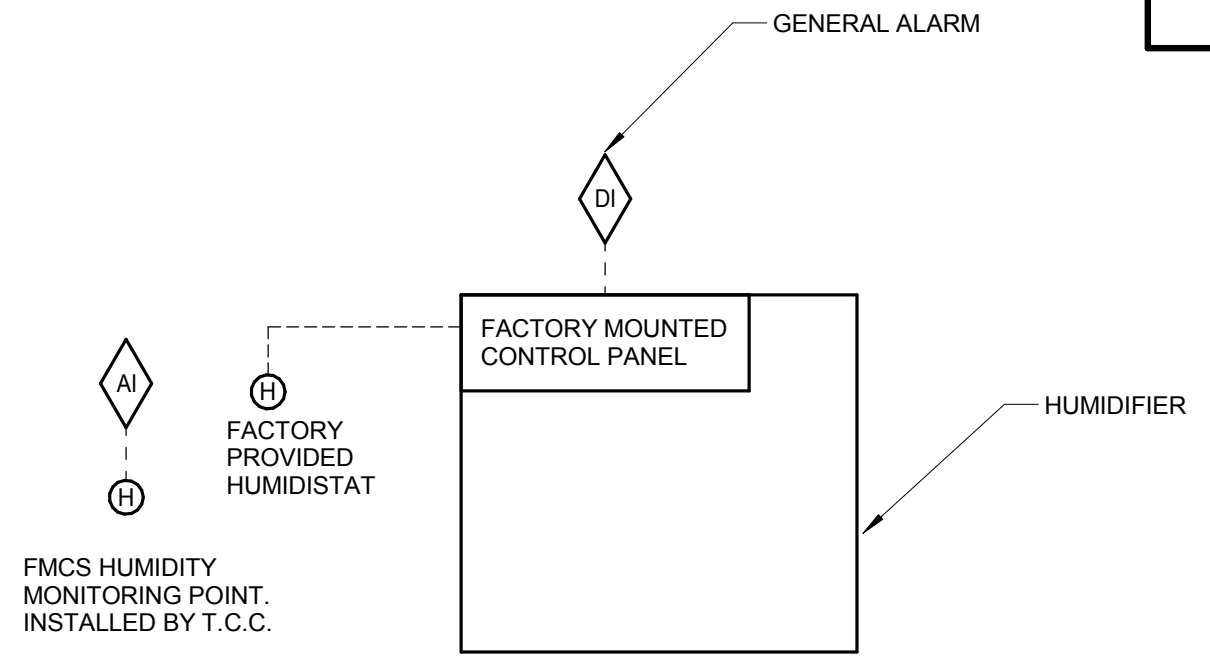
WHEREAS THE SAMPLE REPORT ABOVE SHOWS ONLY A COUPLE TAB/COILS, THE FINAL PROGRAMMED REPORT SHALL LIST ALL TABS/COILS SERVED BY A SINGLE AHU. A SEPARATE REPORT SHALL BE PROGRAMMED FOR EACH AHU AND FOR EACH FLOOR.

AFTER THE REPORT PRINTS OUT ALL TAB/HEATING COIL DATA, THE DDC FMCS SHALL AUTOMATICALLY TOTAL ALL THE INDIVIDUAL TAB AIRFLOW TO A SINGLE VALUE.

AFTER PRINTING THE SUM OF THE TAB/HEATING COIL AIRFLOW CFM, THE DDC FMCS SHALL THEN AUTOMATICALLY PRINT OUT THE AIR HANDLER REPORT FOR THE AHU WHICH SERVES THE TABS/HEATING COILS LISTED IN THE REPORT.

DDC FMCS SHALL ALLOW THE DDC FMCS OPERATOR TO ISSUE A SINGLE COMMAND THAT WILL AUTOMATICALLY CHANGE THE LOCAL SETPOINT FOR EACH TAB SERVED BY A AHU TO A SINGLE VALUE (E.G. A SINGLE COMMAND WILL SET ALL TABS/HEATING COILS SERVED BY AHU-A TO 80°F). A SEPARATE TAB/HEATING COIL SETPOINT OVERRIDE COMMAND SHALL BE PROGRAMMED IN THE FMCS FOR EACH AHU.

2 TERMINAL AIR BOX REPORT GENERATION
NO SCALE

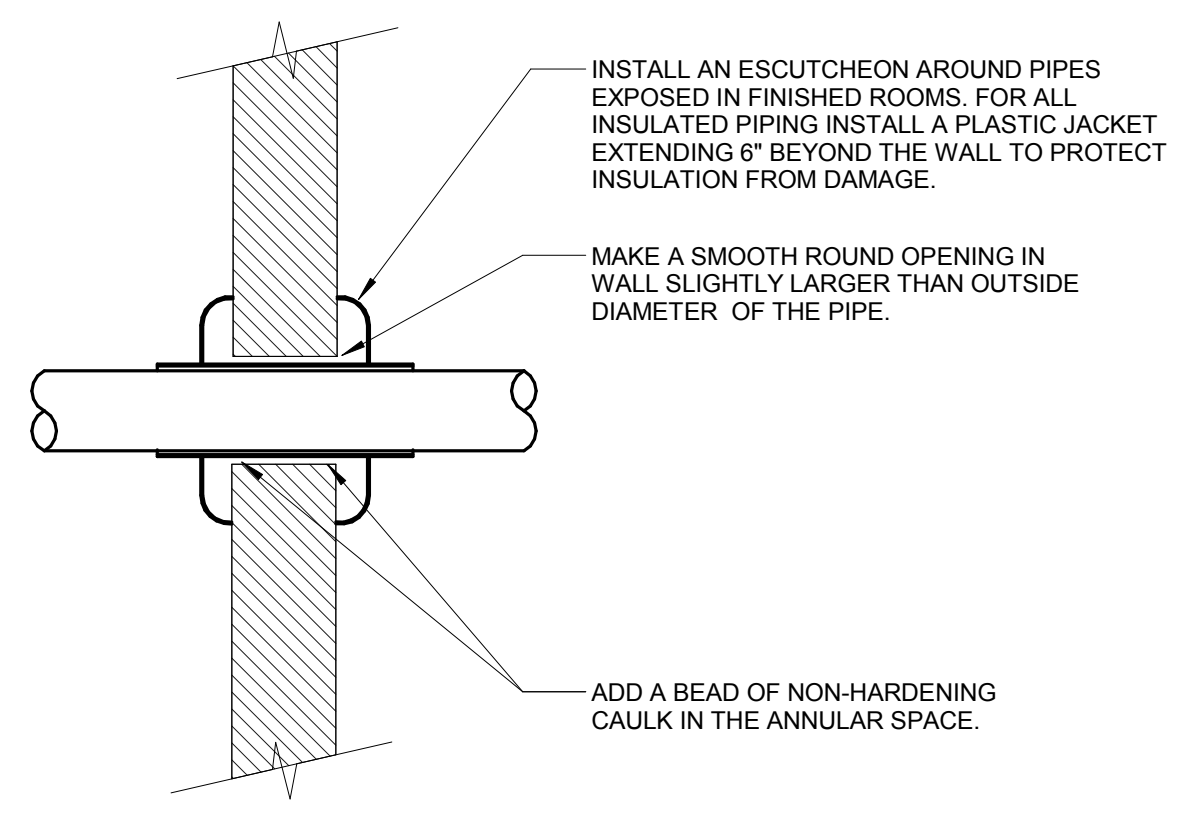


SEQUENCE OF OPERATION:
 CONTROLS PROVIDED BY MFR INTEGRAL WITH UNIT.

ALARMS, INTERLOCKS & SAFETIES:
 SEND AN ALARM TO THE FMCS OPERATOR INTERFACE UPON THE OCCURRENCE OF ANY MICROPROCESSOR CONTROL SYSTEM ALARM CONDITIONS.

3 HUMIDIFIER CONTROL
NO SCALE

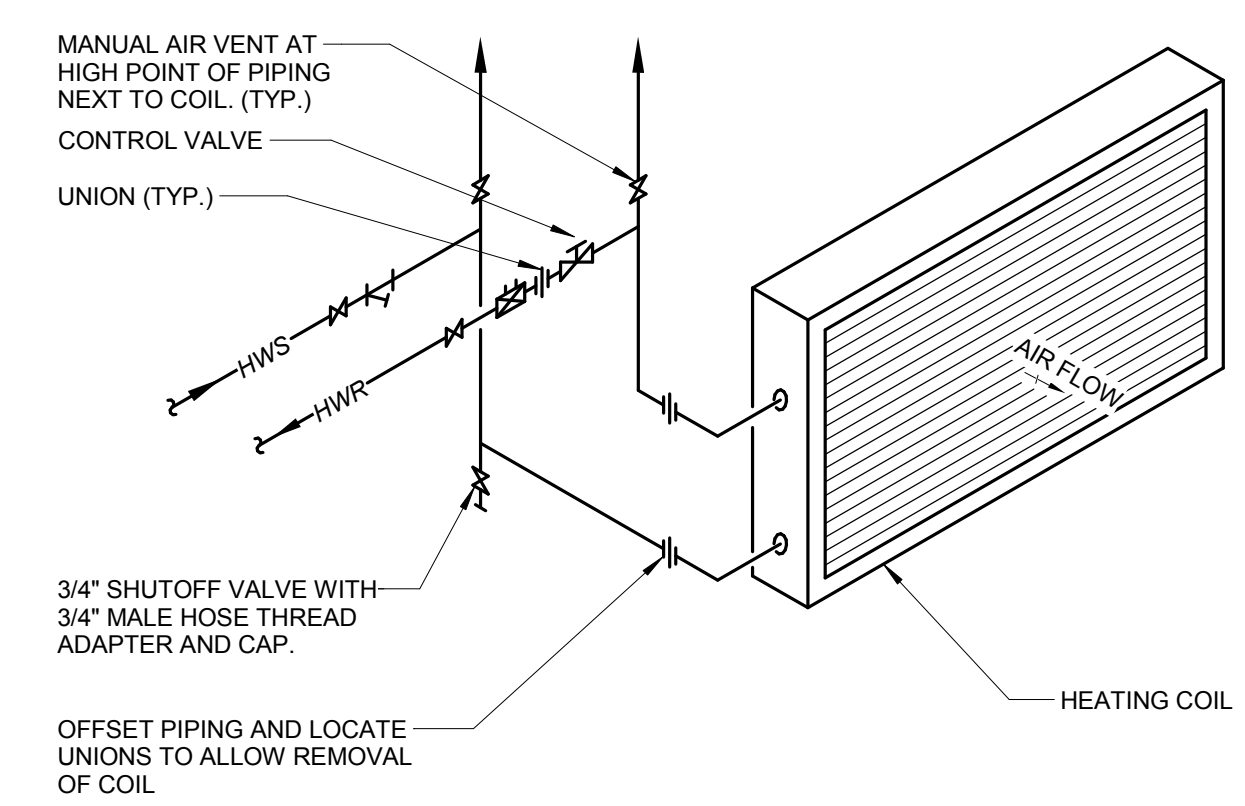
- NOTES:
 1. HUMIDIFIER OUTPUT TO BE LIMITED TO MAINTAIN 40% RH WITHIN THE SPACE.



NOTES:

- THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
- REFER TO SPECIFICATION SECTION 22 05 03 FOR ADDITIONAL INFORMATION.

5 PIPE THROUGH NON-FIRE RATED WALL
NO SCALE



4 HEATING COIL PIPING
NO SCALE

NOTES:
 1. REFER TO SPECIFICATION SECTION 23 21 00 - HYDRONIC PIPING FOR BALANCE VALVE SIZING REQUIREMENTS.

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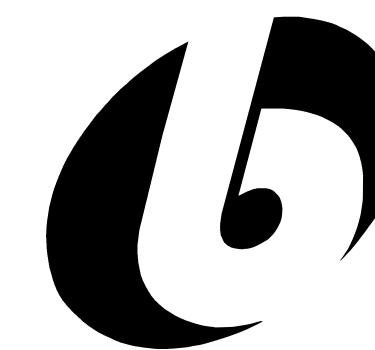
PROJECT
 NEIU - VIVARIUM & MARINE ORGANISMS RENOVATION
 NEIU # 11-0333-0213 BE # 1302-13-01

BUILDING ID/NAME BERNARD J. BROWNE HALL

MECHANICAL SCHEDULES, DETAILS AND CONTROLS

DATE APRIL 24, 2013 SCALE 12" = 1'-0"
 DRAWN BY DAH SHEET No. H600
 CHECKED BY BMF 16 of 23 SHEETS

KJW # 13.0146.00 - NEIU - Vivarium & Marine Organisms Renovation - 11 - Rev: 05/13/13 - 13.0146.00 - NEIU Science Labs - Central - 4



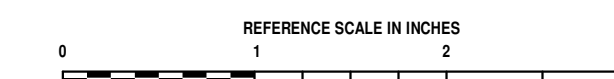
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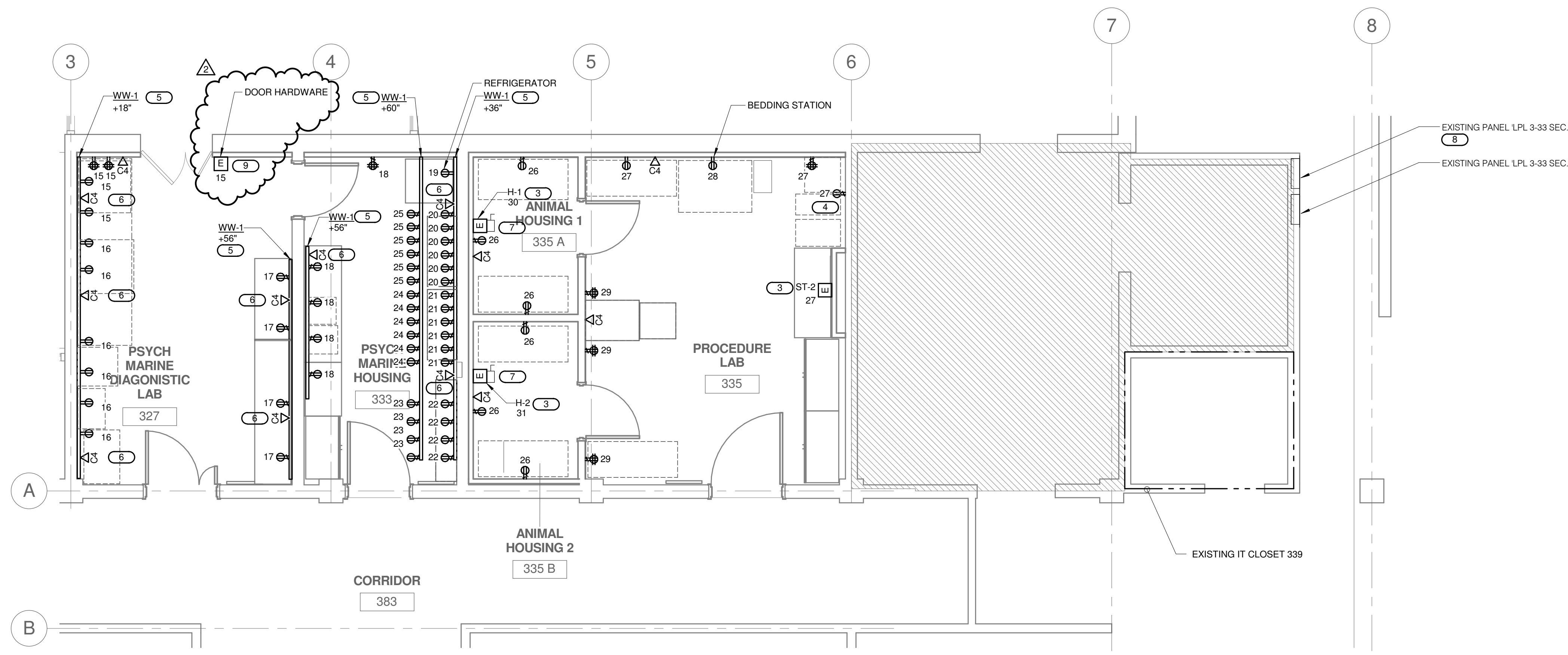
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- GENERAL SHEET NOTES:**
- REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
 - REFER TO SHEET E400 FOR GENERAL ELECTRICAL EQUIPMENT SCHEDULE, PANEL SCHEDULE AND INFORMATION OUTLET SCHEDULE.
 - ALL INFORMATION OUTLETS SHALL BE SERVED FROM EXISTING EQUIPMENT RACK IN EXISTING IT CLOSET 339. COORDINATE LOCATION OF NEW PATCH PANELS ON EXISTING EQUIPMENT RACK.
 - REFER TO 1/E400 FOR CONNECTIVITY RISER DIAGRAM.
 - HATCHED AREAS DENOTE AREAS WITH NO SCOPE OF WORK.
 - REFER TO E301 FOR LOCATION OF EXISTING FIRE ALARM CONTROL PANEL.
 - ALL NEW POWER CIRCUITS SHALL BE FED FROM EXISTING PANEL 'LPL 3-33 SEC.1'.

- KEYNOTES: (#)**
- EXTEND A PORTION OF EXISTING FIRE ALARM INITIATING CIRCUIT TO CONNECT TO HEAT DETECTOR.
 - CONNECT DEVICE TO NEW NOTIFICATION APPLIANCE CIRCUIT FROM CLOSEST NAC EXTENDER PANEL OR CONTROL PANEL, OR CONNECT TO EXISTING NOTIFICATION APPLIANCE CIRCUIT OR PROVIDE NEW NAC EXTENDER PANEL PER SPECIFICATIONS.
 - COORDINATE WITH INSTALLING CONTRACTOR FOR EXACT EQUIPMENT LOCATION.
 - INSTALL DEVICE AND WIRING TO ABOVE CEILING IN SURFACE RACEWAY (WIREFOLD V700 OR APPROVED EQUAL).
 - ROUTE SURFACE RACEWAY TO CEILING. REFER TO 1/E401 FOR ADDITIONAL INFORMATION.
 - INSTALL OUTLETS IN WIREWAY WW-1.
 - DISCONNECT PROVIDED BY MANUFACTURER, WIRED BY ELECTRICAL CONTRACTOR.
 - NEW CIRCUIT BREAKERS IN EXISTING PANEL SHALL MATCH EXISTING RATINGS AND CONSTRUCTION.
 - PROVIDE LOW VOLTAGE TRANSFORMER FOR CONNECTION TO DOOR ALARM. COORDINATE WITH DOOR INSTALLER FOR EXACT LOCATION AND REQUIREMENTS.

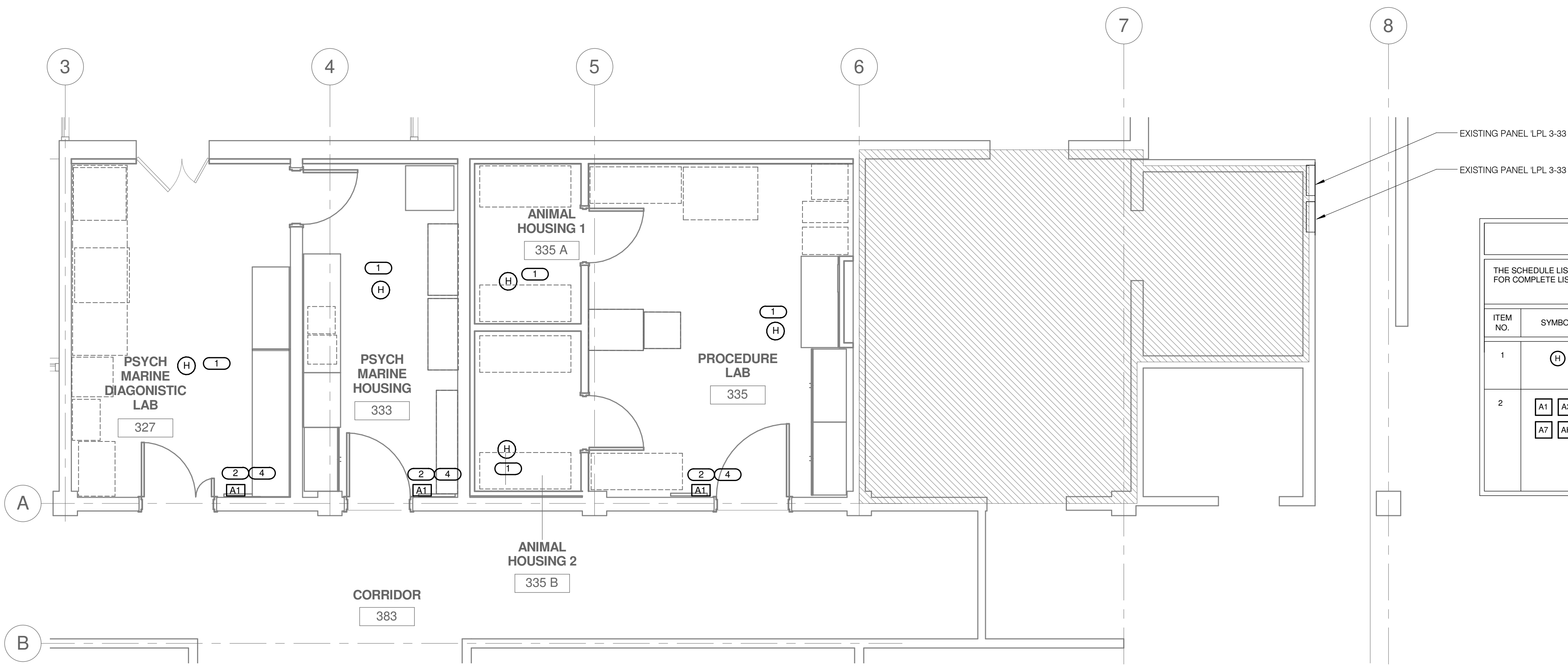


1 THIRD FLOOR PLAN - ELECTRICAL - POWER & TECHNOLOGY
1/4" = 1'-0"
NORTH

DEVICE KEY

DEVICE = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZANTALLY 'A' WILL SEPARATE THIS INFORMATION EX:A/1



FIRE ALARM DEVICE SCHEDULE

THE SCHEDULE LISTED BELOW IS FOR FIRE ALARM DEVICE QUICK REFERENCE ONLY. REFER TO GENERAL ELECTRICAL EQUIPMENT SCHEDULE ON E400 FOR COMPLETE LIST OF EQUIPMENT.

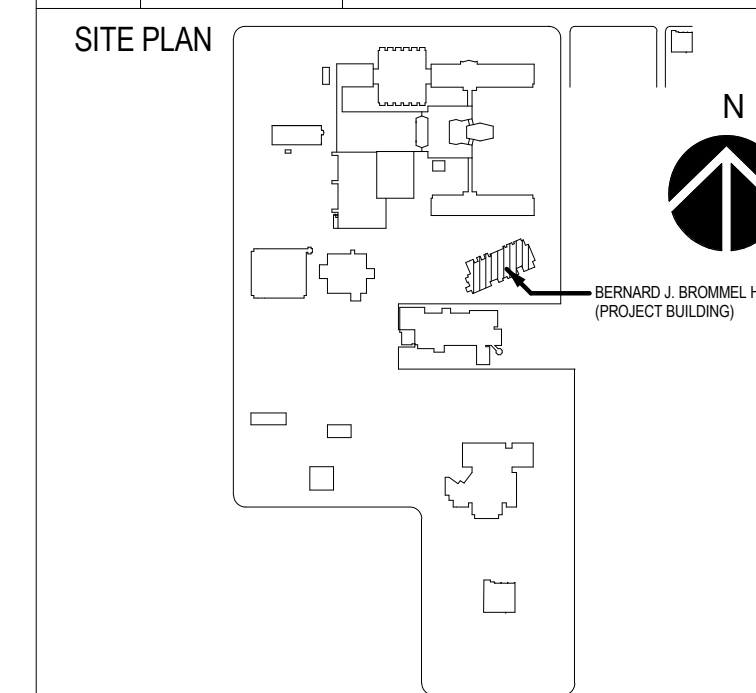
ITEM NO.	SYMBOL	DESCRIPTION	APPROVED MANUFACTURERS
1	(H)	HEAT DETECTOR, COMBINATION RATE OF RISE AND 135 DEGREE FAHRENHEIT FIXED TEMPERATURE, 2-WIRE OPERATION, 2-PIECE DESIGN, LOW-PROFILE DESIGN, COMPLETE WITH MOUNTING HARDWARE AND BACKBOX.	GAMEWELL MATCH EXISTING
2	(A1) (A3) (A7) (AH)	FIRE ALARM AUDIOVISUAL NOTIFICATION APPLIANCE, ELECTRONIC HORN WITH SELECTABLE OR TEMPORAL TONE, SELECTABLE SOUND OUTPUT AND HIGH-INTENSITY STROBE, RED HOUSING WITH WHITE LETTERING OR PICTOGRAM, SEMI-FLUSH WALL MOUNT, 24 VDC. CANDELA RATINGS: A1=15, A3=30, A7=75, AND AH=110. CANDELA RATING SHALL BE VISIBLE FROM THE OUTSIDE OF THE DEVICE.	GAMEWELL MATCH EXISTING

2 THIRD FLOOR PLAN - ELECTRICAL - SYSTEMS
1/4" = 1'-0"
NORTH

PROJECT NOTES

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PROJECT
NEIU - VIVARIUM & MARINE ORGANISMS RENOVATION
NEIU # 11-0333-0213 BE # 1302-13-01

BUILDING ID/NAME: BERNARD J. BROMMEL HALL
THIRD FLOOR PLAN - ELECTRICAL - POWER, TECHNOLOGY & SYSTEMS

DATE: APRIL 24, 2013 SCALE: As indicated
DRAWN BY: DEK SHEET No. E201
CHECKED BY: JML 20 of 23 SHEETS