UNIVERSITY OF RHODE ISLAND

FAYERWEATHER AND GORHAM HALLS

PLUMBING AND HEATING REPLACEMENT

KINGSTON, RI

CAPITAL PROJECTS URI PROJECT #KC.R.MISC.2014.003

CLIENT:

THE UNIVERSITY OF RHODE ISLAND

THINK BIG WE DO

ARCHITECT:

TectonArchitects | pc

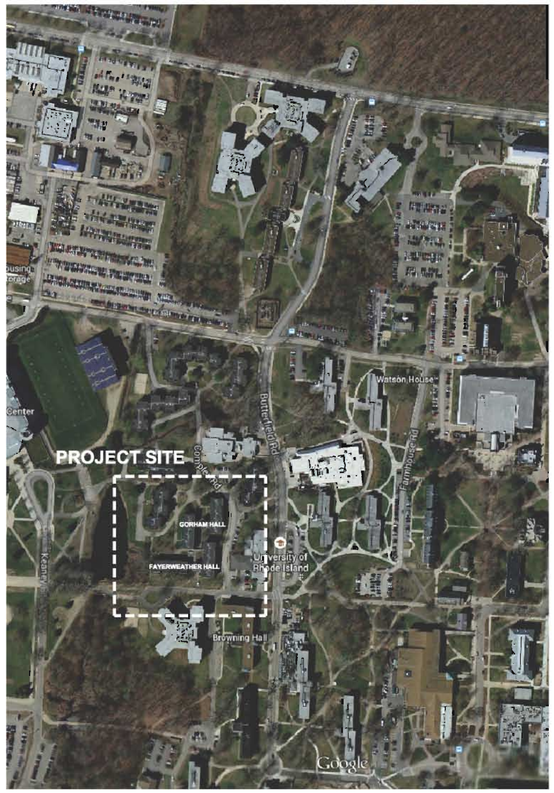
17 RAILROAD AVENUE
WESTERLY RHODE ISLAND
TEL 401.596.7555
FAX 401.596.7227
ONE HARTFORD SQUARE WEST
HARTFORD CONNECTICUT
TEL 860.548.0802
FAX 860.548.0800
www.tectonarchitects.com

CONSULTANTS:

Steere ENGINEERING INC
2350 Post Road, Suite 100
Warwick, RI 02886
Tel 401.773.7880 ext 15
www.steereengineering.com

Creative Environment Corp.
50 OFFICE PARKWAY
EAST PROVIDENCE, RI 02914
P: 401.438.7733
F: 401.438.7620
WWW.CEC-ENGINEERING.COM

PROJECT LOCATION



DRAWING LIST:

GENERAL

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G1.2 GENERAL NOTES AND ABBREVIATIONS

STRUCTURAL

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ARCHITECTURAL

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A2.102 FAYERWEATHER HALL BASEMENT PLAN - DEMOLITION
A2.103 GORHAM HALL FIRST FLOOR PLAN - DEMOLITION
A2.104 FAYERWEATHER HALL FIRST FLOOR PLAN - DEMOLITION
A2.105 GORHAM HALL TYPICAL FLOOR PLAN - DEMOLITION
A2.106 FAYERWEATHER HALL TYPICAL FLOOR PLAN - DEMOLITION
A2.201 GORHAM HALL BASEMENT PLAN - CONSTRUCTION
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A5.100 ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS AND DETAILS

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FA-P2.102 FAYERWEATHER HALL BASEMENT FLOOR PLAN - DEMOLITION
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FA-P2.104 FAYERWEATHER HALL TYPICAL FLOOR PLAN - DEMOLITION
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FA-M2.102 BASEMENT PLAN MECHANICAL CONSTRUCTION FAYERWEATHER HALL
GO-M2.103 TYPICAL FLOOR PLAN MECHANICAL CONSTRUCTION GORHAM HALL
FA-M2.104 TYPICAL FLOOR PLAN MECHANICAL CONSTRUCTION FAYERWEATHER HALL
GO-M2.201 MECHANICAL HEATING PIPE RISER DIAGRAM GORHAM HALL
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ELECTRICAL

E2.101 DEMOLITION AND NEW ELECTRICAL PLANS
E2.102 SPECIFICATIONS AND SYMBOL LEGEND

TectonArchitects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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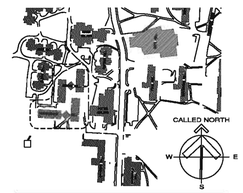
Project

University of Rhode Island
FAYERWEATHER & GORHAM
PLUMBING AND HEATING
REPLACEMENT
KINGSTON, RI

Key Plan



Seals

CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

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Drawing Title

COVER SHEET

Issue Date:	01/30/2015
Project No: URI20IN	Scale: AS NOTED
Project Manager: MT	Production Leader: LT
Project Architect: MT	Peer Reviewer: SM

Drawing Number

C0.0

ABBREVIATIONS

&	AND
<	ANGLE
@	AT
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
AC	ACOUSTICAL
ACPL	AACOUSTICAL PLASTER
ACT	ACOUSTIC TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
ADJT	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACOUSTICAL PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASB	ASBESTOS
ASPH	ASPHALT
ASR	AUTOMATIC SPRINKLER RISER
AUTO	AUTOMATIC
BD	BOARD
BET	BETWEEN
BIT	BITUMINOUS
BJT	BED JOINT
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
BUR	BUILT UP ROOFING
BW	BOTH WAYS
CAB	CABINET
CAR	CARPETING
CB	CATCH BASIN
CBD	CHALK BOARD
CEM	CEMENT
CFL	COUNTERFLASHING
CFT	CUBIC FOOT
CG	CORNER GUARD
CI	CAST IRON
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CLG	CEILING
CLL	CONTRACT LIMIT LINE
CLR	CLEAR
CLS	CLOSURE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESS
COMPO	CONPOSITION
CONC	CONCRETE
CONN	CONNECT(TION)
CONST	CONSTRUCTION
CONT	CONITNUOUS
CONTR	CONTRACTOR
COR	CORRUGATED
CPR	COPPER
CPT	CARPET
CR	COLD ROLLED
CRG	CROSS GRAIN
CRS	COURSE
CS	COUNTERSINK
CSMT	CASEMENT
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSINK
CW	COLD WATER
CYD	CUBIC YARD
D	DRAIN
DEM	DEMOLISH
DEP	DEPRESSED
DET	DETAIL
DF	DRINKING FOUNTAIN
DGM	DIAGRAM
DH	DOUBLE HUNG
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION
DL	DEADLOAD
DMT	DEMOUNTABLE
DP	DAMPROOFING
DPR	DAMPER

DS	DOWNSPOUT
DT	DRAINT TILE
DTL	DETAIL
DW	DUMB WAITER
DWG	DRAWING
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EXHAUST FAN
EJ	EXPANSION JOUNT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENC	ENCLOSE
EP	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQP	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXG	EXISTING
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXPN	EXPANSION
EXS	EXTRA STRONG
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISHED
FJT	FLUSH JOINT
FLG	FLASHING
FLR	FLOOR
FLUR	FLUORESCENT
FND	FOUNDATION
FND	FOUNDATION
FOS	FACE OF STUD
FR	FRAME
FRT	FIRE RETARDANT
FS	FULL SIZE
FTG	FOOTING
FUR	FURRED
FUT	FUTURE
GA	GAUGE
GALV	GALVANISED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GCMU	GLAZED CMU
GD	GRADE
GF	GROUND FACE
GL	GLASS
GLB	GLASS BLOCK
GPBD	GYPSUM BOARD
GR	GRADE
GRD	GROUND
GST	GLAZED STRUCTURAL TILE
GV&B	GATE VALVE AND BOX
GYP	GYPSUM
H	HARDENER
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HTG	HEATING
HVAC	HEAT/ VENT./ AIR COND.
HW	HOT WATER
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDE
INSUL	INSULATE
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
JT	JOINT
KO	KNOCKOUT
KPL	KICKPLATE

LAM	LAMINATE
LAV	LAVATORY
LBL	LABEL
LH	LEFT HAND
LL	LIVE LOAD
LP	LOW POINT
LVR	LOUVER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MINERAL CORE
MECH	MECHANICAL
MED	MEDIUM
MFD	METAL FLOOR DECK
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
MLD	MOLDING
MMB	MEMBRANE
MO	MASONRY OPENING
MOV	MOVABLE
MR	MOP RECEPTOR
MT	MOUNT
MTFR	METAL ROOF DECK
MTHR	METAL THRESHOLD
MTL	METAL
MULL	MULLION
MWK	MILLWORK
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OP	OPAQUE
OPG	OPENING
OPH	OPPOSITE HAND
OPP	OPPOSITE
PA	PUBLIC ADDRESS
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PED	PEDISTAL
PERF	PERFORATE
PERIM	PERIMETER
PFB	PREFABRICATED
PFN	PREFINISHED
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAL FOOT
PNL	PANEL
POL	POLISHED
PORC	PORCELAIN
P.P.	PITCH POCKET
PROP	PROPERTY
PRSC	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
QT	QUARY TILE
R	RISER
RA	RETURN AIR
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESS
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE

REM	REMOVE
RES	RESILIENT
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RFG	ROOFING
RFH	ROOF HATCH
RFL	REFLECT
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWC	RAIN WATER CONDUCTOR
RWL	RAINWATER LEADER
S	SOUTH
SC	SOLID CORE
SCH	SCHEDULE
SCT	STRUCTURAL CLAY TILE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET
SFGL	SAFETY GLASS
SG	SHEET GLASS
SHELV	SHELVING
SHT	SHEET
SIM	SIMILAR
SL	SLEEVE
SML	SMALL
SP	SOUNDPROOF
SPEC	SPECIFICATION
SPK	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STG	SEATING
STOR	STORAGE
STR	STRUCTURAL
SUSP	SUSPENDED
SY	SQUARE YARD
SYM	SYMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T	TREAD
T&G	TOUNG AND GROOVE
TB	TOP OF BAR
TC	TERRA COTTA
TEL	TELEPHONE
THK	THICK
THR	THRESHOLD
TKBD	TACKBOARD
TKS	TACKSTRIP
TPD	TOILET PAPER DISPENSOR
TPTN	TOILET PARTITION
TS	TOP OF STEEL
TSL	TOP OF SLAB
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
TZ	TERRAZZO
UC	UNDERCUT
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
VAT	VINYL ASBESTOS TILE
VB	VINYL BASE
VERT	VERTICAL
VG	VERTICAL GRAIN
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WG	WIRE GLASS
WH	WALL HUNG
WO	WITHOUT
WP	WATERPROOF
WP	WORKING POINT
WR	WATER RESISTANT
WS	WATERSTOP
WSCT	WAINSCOT
WTW	WALL TO WALL
WWF	WELDED WIRE FABRIC

SYMBOLS LEGEND

2 / A-201 (DETAIL / SHEET)	EXTERIOR ELEVATION KEY	OFFICE 101	ROOM NUMBER
D, C, A, B; 2 / A-411 (DETAIL / SHEET)	INTERIOR ELEVATION KEY	101	DOOR NUMBER
4 / A-301 — 4 / A-301 (DETAIL / SHEET)	BUILDING SECTION KEY	A	WINDOW / LOUVER TYPE
		1	DEMOLITION NOTE
		1	CONSTRUCTION NOTE
4 / A-442 (DETAIL / SHEET)	WALL SECTION KEY	P1	WALL TYPE
13 / A-501 (DETAIL / SHEET)	SECTION DETAIL KEY	A	EQUIPMENT TYPE
		FLOOR LEVEL / EL. ABOVE DATUM	ELEVATION
13 / A-501 (DETAIL / SHEET)	PLAN DETAIL KEY		

MATERIALS LEGEND

CONCRETE	PLYWOOD (SMALL SCALE)
CONCRETE MASONRY UNIT	TILE
STONE	WOOD FRAMING
METAL	FINISHED WOOD
COMPACTED GRAVEL	BATT INSULATION
CRUSHED STONE	ACOUSTICAL INSULATION
UNDISTURBED SOIL	RIGID INSULATION

LINE TYPE LEGEND

EXISTING CONSTRUCTION	CENTER LINE
DEMOLITION	BREAK LINE
NEW CONSTRUCTION	HIDDEN LINE

TYPICAL MOUNTING HEIGHTS

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Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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REPLACEMENT
KINGSTON, RI

Key Plan

Seals

CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

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Drawing Title

GENERAL NOTES AND ABBREVIATIONS

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	SM

Drawing Number

G1.2

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GENERAL

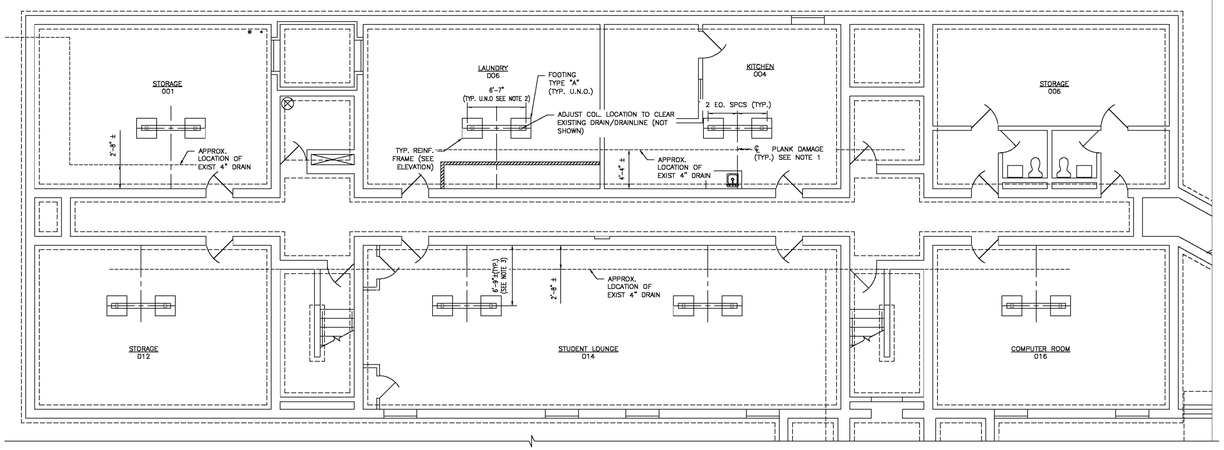
1. STRUCTURAL DRAWINGS TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, AND PLUMBING DRAWINGS.
2. CODES AND STANDARDS:
   a. RHODE ISLAND STATE BUILDING CODE SBC-1-2013
   b. ACI 318-11, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
   c. AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
   d. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. ALL SAFETY REGULATIONS TO BE FOLLOWED STRICTLY. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS IS CONTRACTOR'S RESPONSIBILITY.
4. UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
5. EXISTING DIMENSIONS AND CONDITIONS MUST BE VERIFIED OR DETERMINED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
6. PROVIDE AND DESIGN ANY SHORING OR BRACING REQUIRED FOR SAFE INSTALLATION OF THIS WORK.
7. DIMENSIONS OF THE EXISTING BUILDING PROVIDED ON THIS SHEET ARE APPROXIMATE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKE AND SUBMIT HIS OWN FIELD MEASUREMENTS PRIOR TO PREPARING SHOP DRAWINGS, ORDERING MATERIAL, OR COMPLETING ANY WORK.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO AISC 360-05, AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AWS D1.1 "STRUCTURAL WELDING CODE – STEEL"
2. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH AISC "DETAILING FOR STRUCTURAL STEEL CONSTRUCTION"
3. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
   a. ROLLED BEAM SHAPES----------ASTM A992, Grade 50 (Fy = 50 ksi)
   b. ANGLES AND PLATES----------ASTM A36 (Fy = 36 ksi)
   c. HSS----------ASTM A500, Grade B (Fy = 46 ksi)
   d. HIGH STRENGTH BOLTS----------ASTM A 325
4. BOLTED CONNECTIONS SHALL BE SNUG TIGHT.
5. WELDED CONNECTIONS SHALL BE MADE BY AWS CERTIFIED WELDERS USING FILLER METAL CONFORMING TO E70XX WITH LOW HYDROGEN.
6. NO FIELD CUTTING OR OTHER MODIFICATIONS TO STRUCTURAL STEEL SHALL BE MADE IN THE FIELD WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER FOR EACH SPECIFIC CASE.
7. SUBMIT TO THE ENGINEER FOR APPROVAL: SHOP DRAWINGS SHOWING FABRICATION OF STRUCTURAL STEEL COMPONENTS.
   a. SHOW STEEL IN RELATION TO EXISTING BUILDING INCLUDING FIELD MEASUREMENTS
   b. SHOW WELDS USING STANDARD AWS SYMBOLS.
   c. SHOW TYPE, SIZE AND LENGTH OF BOLTS.

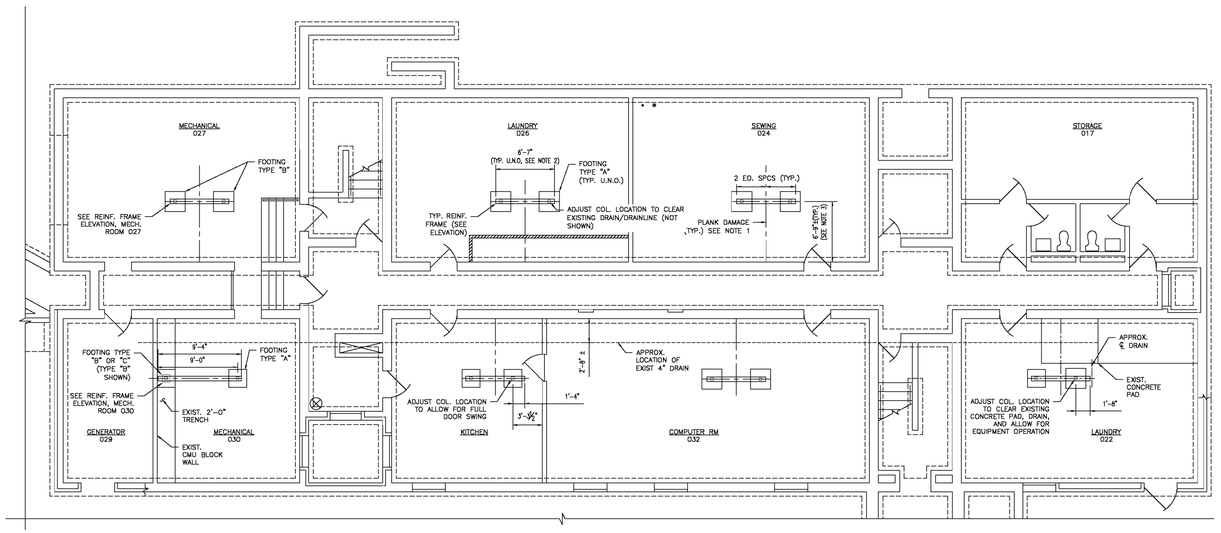
CONCRETE

1. CONCRETE:
   a. NORMAL WEIGHT CONCRETE, CLASS XX IN COMPLIANCE WITH RIDOT STANDARD SPECIFICATIONS
   b. MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
   c. ALL CONCRETE SHALL CONTAIN ENTRAINED AIR OF 6% PLUS OR MINUS 1.5% AT POINT OF DELIVERY, OBTAINED BY THE ADDITION OF AIR ENTRAINMENT ADMIXTURE CONFORMING WITH ASTM C260.
   d. MAXIMUM SLUMP: 4 INCHES
2. REINFORCEMENT: ASTM A 615, GRADE 60.
3. WELDED WIRE FABRIC: ASTM A185, (FLAT SHEETS NOT ROLLS).
4. CONFORM TO ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
5. CONFORM TO CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS"
6. LAP WELDED WIRE FABRIC A MINIMUM OF 2 MESHES AT SIDES AND ENDS.
7. PROVIDE 45 DEGREE CHAMFER ON ALL EXPOSED EDGES OF CONCRETE.
8. FORMED CONCRETE PLACEMENT:
   a. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER
   b. DEPOSIT AS REQUIRED TO AVOID SEGREGATION.
   c. CONSOLIDATE CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT PER ACI 301. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE INSIDE FORMS. INSERT AND WITHDRAW VIBRATORS VERTICALLY AT UNIFORMLY SPACED LOCATIONS TO RAPIDLY PENETRATE PLACED LAYER. LIMIT DURATION OF VIBRATION TO TIME NECESSARY TO CONSOLIDATE CONCRETE AND COMPLETE EMBEDMENT OF REINFORCEMENT WITHOUT CAUSING MATERIAL TO SEGREGATE.
10. SLAB-ON-GRADE PLACEMENT:
    a. DEPOSIT AND CONSOLIDATE CONCRETE FOR FLOORS AND SLABS IN A CONTINUOUS OPERATION.
    b. SCREED SLAB SURFACES WITH A STRAIGHTEDGE AND STRIKE OFF TO CORRECT ELEVATIONS.
    c. BEGIN INITIAL FLOATING BEFORE EXCESS BLEEDWATER APPEARS ON THE SURFACE.
    d. APPLY TROWEL FINISH.
11. CURING AND PROTECTION: CURE CONCRETE BY KEEPING SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAN 7 DAYS WITH WATER, CONTINUOUS WATER-FOG SPRAY OR ABSORPTIVE COVER, WATER SATURATED AND KEPT CONTINUOUSLY WET.
12. FIELD QUALITY CONTROL:
    a. ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM TESTS AND INSPECTIONS AND TO SUBMIT REPORTS.
    b. TESTING AGENCY SHALL BE QUALIFIED ACCORDING TO ASTM C 1077 AND ASTM E 329 FOR TESTING INDICATED
    c. CONCRETE TESTS: TEST FRESH CONCRETE SAMPLES OBTAINED PER ASTM C172, AS FOLLOWS:
    i. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR.
    ii. SLUMP: ASTM C 143 ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
    iii. AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
    iv. CONCRETE TEMPERATURE: ASTM C 1064/C 1064M; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW AND WHEN 80 DEG F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE
    v. COMPRESSION TEST SPECIMENS: ASTM C31. CAST AND LABORATORY CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
    vi. COMPRESSIVE STRENGTH TESTS: ASTM C39. TEST ONE SET OF TWO SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
13. SUBMIT TO THE ENGINEER FOR APPROVAL: PRODUCT DATA & DESIGN MIXTURES.



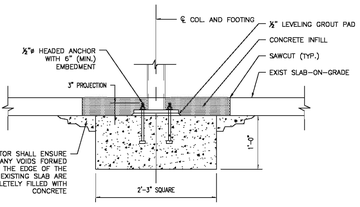
BASEMENT PLAN, BUILDING 1

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



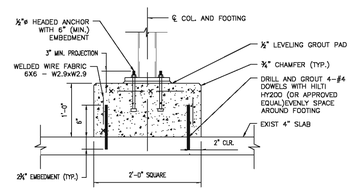
BASEMENT PLAN, BUILDING 4

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



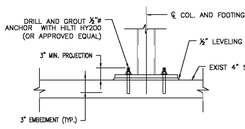
FOOTING TYPE "A" DETAIL

SCALE: 3/4"=1'-0"



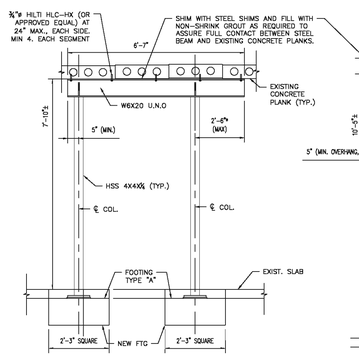
FOOTING TYPE "B" DETAIL

SCALE: 3/4"=1'-0"



FOOTING TYPE "C" DETAIL

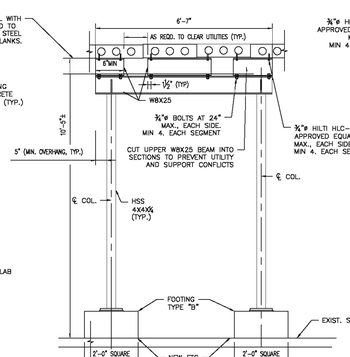
SCALE: 3/4"=1'-0"



TYPICAL REINFORCEMENT FRAME ELEVATION

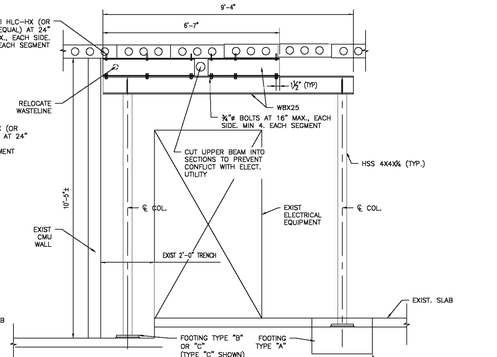
SCALE: 3/8"=1'-0"

NOTES:
1. ELEVATION SHOWN WITH ONE END OFFSET, NON OFFSET END SIMILAR.
2. THIS TYPICAL FRAME APPLIES TO ALL LOCATIONS OTHER THAN MECHANICAL ROOMS 027 AND 030.
3. *THE OVER-HANG SHALL BE THE MINIMUM UNLESS THERE IS AN EXISTING CONFLICT THAT REQUIRES THE COLUMN AND/OR FOOTING TO BE MOVED, IN WHICH CASE THE OVERHANG SHALL BE KEPT TO THE MINIMUM REQUIRED TO AVOID THE CONFLICT.



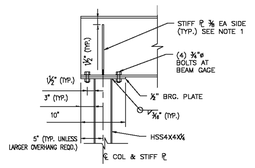
REINFORCEMENT FRAME ELEVATION, MECHANICAL ROOM 027

SCALE: 3/8"=1'-0"



REINFORCEMENT FRAME ELEVATION, MECHANICAL ROOM 030

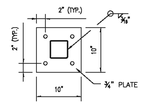
SCALE: 3/8"=1'-0"



BEAM TO HSS COLUMN CONNECTION

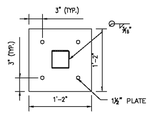
SCALE: 3/4"=1'-0"

NOTES:
1. CHAMFER CORNERS AS REQUIRED AT BEAM "K" REGION.
2. BEAM END SHOWN. OTHER CONNECTIONS SIMILAR.



BASEPLATE DETAIL

SCALE: 3/4"=1'-0"



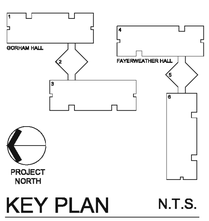
FOOTING TYPE "C" BASEPLATE DETAIL

SCALE: 3/4"=1'-0"

NOTES

1. NEW STEEL BEAMS ARE TO BE CENTERED ON THE DAMAGED WIDTH OF THE FIRST FLOOR HOLLOW CORE CONCRETE PLANKS ALONG THE CORRIDOR BEARING WALL. COLUMN PLACEMENT WILL VARY WHERE LARGER THAN TYP. OVERHANG IS INDICATED.
2. FIELD VERIFY WIDTH OF THE DAMAGED WIDTH OF THE FIRST FLOOR HOLLOW CORE CONCRETE PLANKS ALONG THE CORRIDOR BEARING WALL AND INCREASE LENGTH OF THE REINFORCEMENT BEAM AS REQUIRED TO MATCH DAMAGED WIDTH.
3. ADJUST DIMENSION SHOWN TO AVOID CONFLICT WITH EXISTING SPRINKLER PIPING. SUBMIT FOR ENGINEERS APPROVAL.
4. RELOCATE ALL MISCELLANEOUS ELECTRICAL EQUIPMENT AND WIRING TO AVOID CONFLICTS WITH THE REINFORCEMENT BEAMS WITH APPROVAL AND AS DIRECTED BY THE ENGINEER AND URI FACILITIES.

JONATHAN AZEVEDO
No. 8778
REGISTERED PROFESSIONAL ENGINEER (STRUCTURAL)



KEY PLAN N.T.S.

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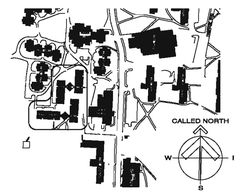
Consultant

Steere ENGINEERING INC
Bridge and Structural Engineers

Owner
THE UNIVERSITY OF RHODE ISLAND
THINK BIG WE DO

Project
University of Rhode Island
FAYERWEATHER & GORHAM BATHROOM RENOVATIONS
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

No.	Date	Description
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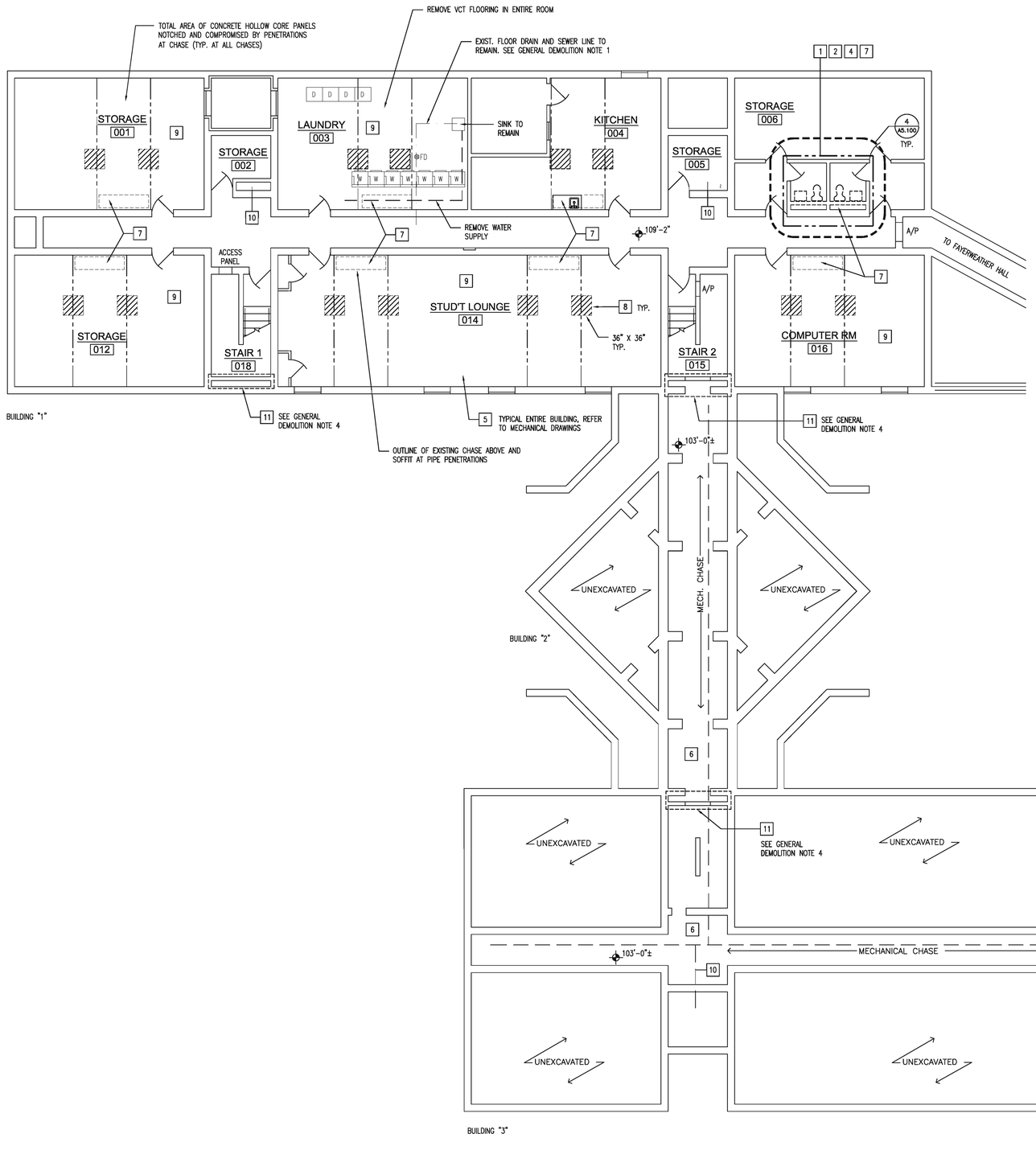
Drawing Title
REINFORCEMENT OF DAMAGED PRECAST PLANKS

Issue Date:	01/30/2015
Project No: URI20IN	Scale: AS NOTED
Project Manager: JA	Production Leader: SPB
Project Architect: MT	Peer Reviewer:

Drawing Number
S1.101



1 BASEMENT FLOOR PLAN - GORHAM HALL
1/8"=1'-0"

GENERAL DEMOLITION NOTES :

1. EXISTING CONDITIONS ARE BASED ON ORIGINAL CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL LOCATE AND VERIFY EXISTING UTILITIES, SERVICES, AND OTHER UNDERGROUND OBSTRUCTIONS VIA X-RAY PRIOR TO CONSTRUCTION. SEE MECHANICAL AS-BUILT DRAWINGS FOR APPROXIMATE LOCATION.
2. TO REPLACE PIPING BURIED UNDER THE STAIR EXCAVATE TRENCH IN SLAB ON GRADE WITHOUT CAUSING DAMAGE TO THE STAIR.
3. COORDINATE LOCATIONS OF SAW CUTTING AND SLAB REMOVAL WITH STRUCTURAL DRAWINGS.
4. REPLACE HORIZONTAL PIPE RUNS UNDER STAIR LANDING AT ENTRANCES FROM UNDERSIDE OF THE STAIR, ACCESSIBLE THROUGH ACCESS PANELS (VERIFY).

DEMOLITION NOTES :

1. REMOVE INTERIOR PARTITION FROM 12" ABOVE FINISHED FLOOR TO UNDERSIDE OF CONCRETE DECK ABOVE AND 6" MIN FROM SIDE WALLS. COORDINATE WITH NEW CONSTRUCTION.
2. SALVAGE TOILET FOR REUSE. TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. (SEE PLUMBING DRAWINGS).
3. SALVAGE SOLID SURFACE COUNTER W/ INTEGRATED SINKS, TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. REMOVE AND SALVAGE MIRROR, SHELF AND LIGHT FIXTURE.
4. REMOVE SINK (BASEMENT BATHROOMS ONLY), SEE PLUMBING DRAWINGS.
5. REMOVE HEATING SYSTEM PIPING AND BASEBOARD HEATERS, SEE PLUMBING DRAWINGS.
6. REMOVE HORIZONTAL PIPES IN MECH. CHASE, REFER TO MECH. DRAWINGS.
7. REMOVE PLUMBING RISERS IN LOCATIONS SHOWN ON FLOOR PLAN. REMOVE AND CAP SEWER LINES DOWN TO BASEMENT FLOOR SLAB. REMOVE SOFFITS AND FIRESTOPPING AT CHASE IN BASEMENT CEILING.
8. PARTIALLY REMOVE SLAB ON GRADE FOR FOOTING INSTALLATION. REFER TO STRUCTURAL DRAWINGS FOR DETAILS. REMOVE VCT FLOORING IN AREA OF WORK ONLY (UNLESS OTHERWISE NOTED),
9. REMOVE CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS IN THE BASEMENT.
10. LOCATE AND VERIFY EXISTING PLUMBING IN TUB ROOMS AND JANITOR ROOMS. ABANDON AND CAP PLUMBING AT EVERY POINT OF TERMINATION AT ALL FLOORS INCLUDING IN MECHANICAL CHASE UNDER THE FIRST FLOOR.
11. PARTIALLY REMOVE SLAB ON GRADE AND MASONRY CHASE WALLS AS REQUIRED FOR THE REPLACEMENT OF THE PIPING. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
12. REMOVE HEATING PIPE CHASES IN STUDENT ROOMS ENTIRELY. DO NOT DAMAGE ADJACENT WALL AND FLOOR FINISHES.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- SLAB ON GRADE TO BE REMOVED
- NOTE 6
- ITEM TO BE REMOVED OR SALVAGED

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Consultants

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Creative Environment Corp. Consulting Engineers

Owner
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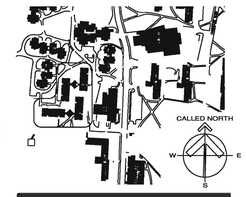
THINK BIG WE DO

Project
University of Rhode Island
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

No.	Date	Description
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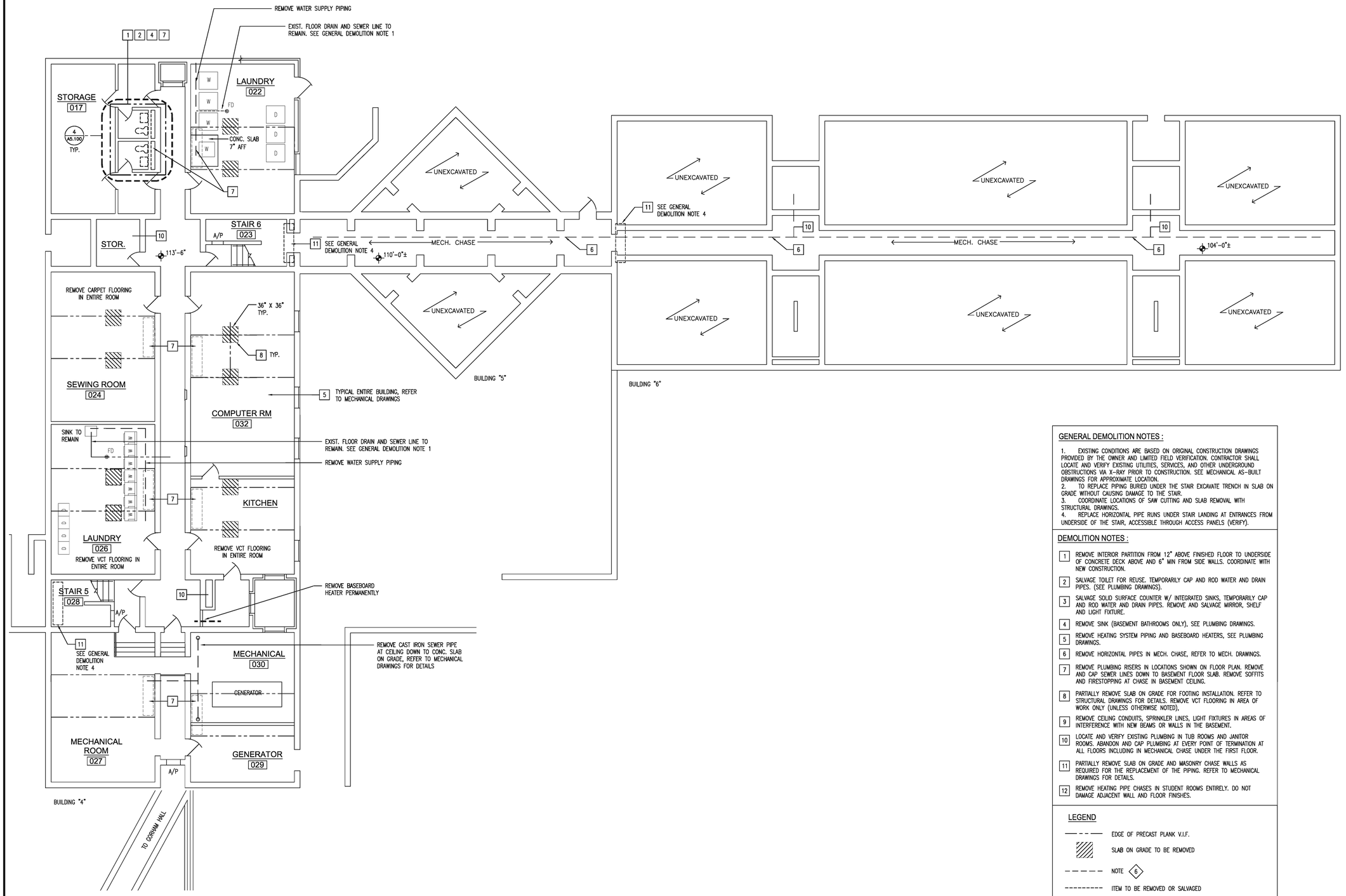
Drawing Title
GORHAM HALL BASEMENT PLAN DEMOLITION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.101



1 BASEMENT FLOOR PLAN - FAYERWEATHER HALL
1/8"=1'-0"

GENERAL DEMOLITION NOTES :

1. EXISTING CONDITIONS ARE BASED ON ORIGINAL CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL LOCATE AND VERIFY EXISTING UTILITIES, SERVICES, AND OTHER UNDERGROUND OBSTRUCTIONS VIA X-RAY PRIOR TO CONSTRUCTION. SEE MECHANICAL AS-BUILT DRAWINGS FOR APPROXIMATE LOCATION.
2. TO REPLACE PIPING BURIED UNDER THE STAIR EXCAVATE TRENCH IN SLAB ON GRADE WITHOUT CAUSING DAMAGE TO THE STAIR.
3. COORDINATE LOCATIONS OF SAW CUTTING AND SLAB REMOVAL WITH STRUCTURAL DRAWINGS.
4. REPLACE HORIZONTAL PIPE RUNS UNDER STAIR LANDING AT ENTRANCES FROM UNDERSIDE OF THE STAIR, ACCESSIBLE THROUGH ACCESS PANELS (VERIFY).

DEMOLITION NOTES :

1. REMOVE INTERIOR PARTITION FROM 12" ABOVE FINISHED FLOOR TO UNDERSIDE OF CONCRETE DECK ABOVE AND 6" MIN FROM SIDE WALLS. COORDINATE WITH NEW CONSTRUCTION.
2. SALVAGE TOILET FOR REUSE. TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. (SEE PLUMBING DRAWINGS).
3. SALVAGE SOLID SURFACE COUNTER W/ INTEGRATED SINKS, TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. REMOVE AND SALVAGE MIRROR, SHELF AND LIGHT FIXTURE.
4. REMOVE SINK (BASEMENT BATHROOMS ONLY), SEE PLUMBING DRAWINGS.
5. REMOVE HEATING SYSTEM PIPING AND BASEBOARD HEATERS, SEE PLUMBING DRAWINGS.
6. REMOVE HORIZONTAL PIPES IN MECH. CHASE, REFER TO MECH. DRAWINGS.
7. REMOVE PLUMBING RISERS IN LOCATIONS SHOWN ON FLOOR PLAN. REMOVE AND CAP SEWER LINES DOWN TO BASEMENT FLOOR SLAB. REMOVE SOFFITS AND FIRESTOPPING AT CHASE IN BASEMENT CEILING.
8. PARTIALLY REMOVE SLAB ON GRADE FOR FOOTING INSTALLATION. REFER TO STRUCTURAL DRAWINGS FOR DETAILS. REMOVE VCT FLOORING IN AREA OF WORK ONLY (UNLESS OTHERWISE NOTED),
9. REMOVE CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS IN THE BASEMENT.
10. LOCATE AND VERIFY EXISTING PLUMBING IN TUB ROOMS AND JANITOR ROOMS. ABANDON AND CAP PLUMBING AT EVERY POINT OF TERMINATION AT ALL FLOORS INCLUDING IN MECHANICAL CHASE UNDER THE FIRST FLOOR.
11. PARTIALLY REMOVE SLAB ON GRADE AND MASONRY CHASE WALLS AS REQUIRED FOR THE REPLACEMENT OF THE PIPING. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
12. REMOVE HEATING PIPE CHASES IN STUDENT ROOMS ENTIRELY. DO NOT DAMAGE ADJACENT WALL AND FLOOR FINISHES.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- SLAB ON GRADE TO BE REMOVED
- NOTE 6
- ITEM TO BE REMOVED OR SALVAGED

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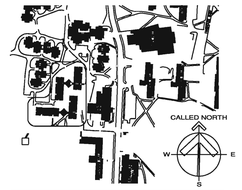
University of Rhode Island
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

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Revisions

No.	Date	Description
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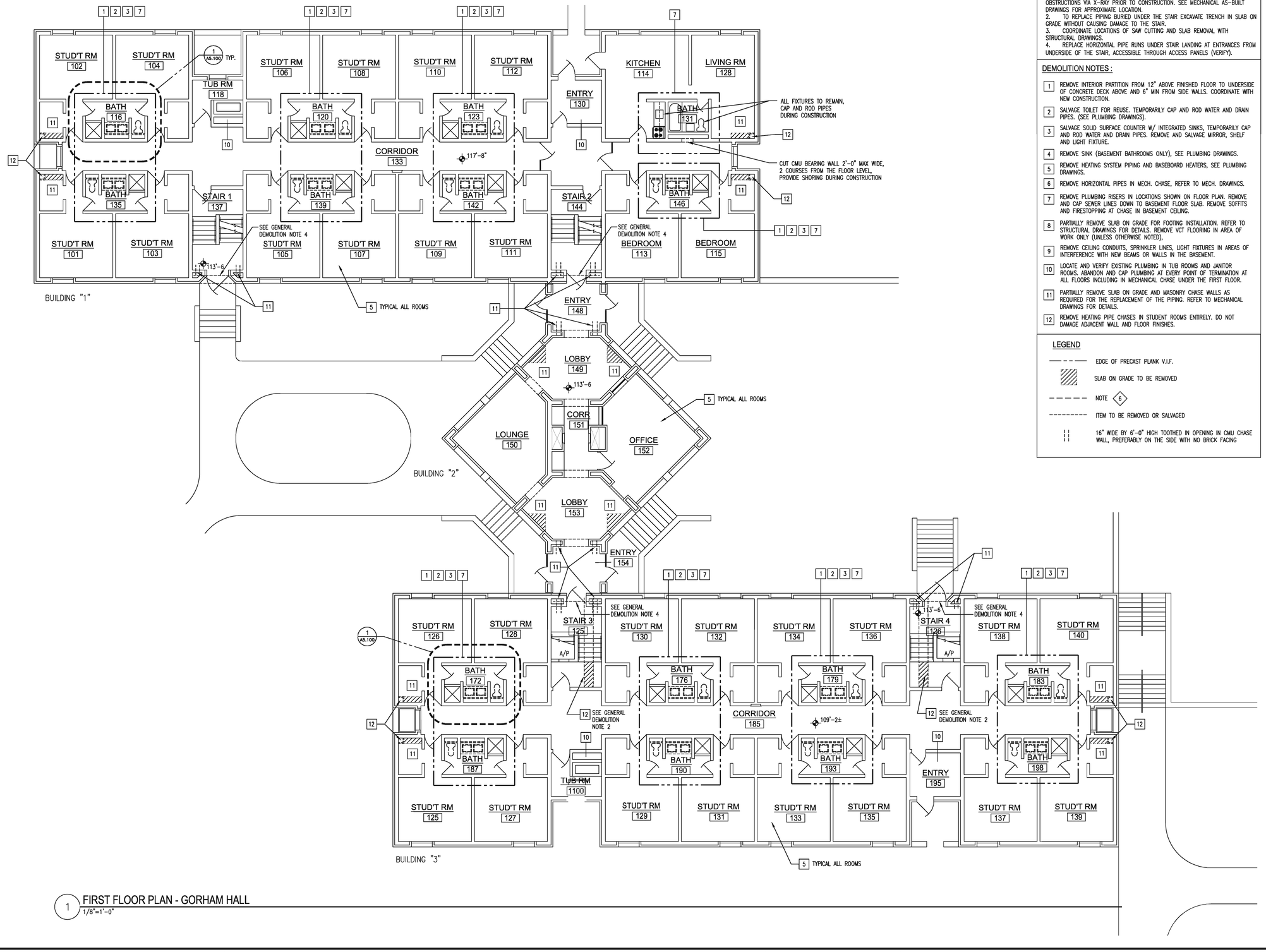
Drawing Title
FAYERWEATHER HALL
BASEMENT PLAN
DEMOLITION

Issue Date:	01/30/2015
Project No: URI20IN	Scale: AS NOTED
Project Manager: MT	Production Leader: LT
Project Architect: MT	Peer Reviewer:

Drawing Number
A2.102



1 FIRST FLOOR PLAN - GORHAM HALL
1/8"=1'-0"

GENERAL DEMOLITION NOTES :

1. EXISTING CONDITIONS ARE BASED ON ORIGINAL CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL LOCATE AND VERIFY EXISTING UTILITIES, SERVICES, AND OTHER UNDERGROUND OBSTRUCTIONS VIA X-RAY PRIOR TO CONSTRUCTION. SEE MECHANICAL AS-BUILT DRAWINGS FOR APPROXIMATE LOCATION.
2. TO REPLACE PIPING BURIED UNDER THE STAIR EXCAVATE TRENCH IN SLAB ON GRADE WITHOUT CAUSING DAMAGE TO THE STAIR.
3. COORDINATE LOCATIONS OF SAW CUTTING AND SLAB REMOVAL WITH STRUCTURAL DRAWINGS.
4. REPLACE HORIZONTAL PIPE RUNS UNDER STAIR LANDING AT ENTRANCES FROM UNDERSIDE OF THE STAIR, ACCESSIBLE THROUGH ACCESS PANELS (VERIFY).

DEMOLITION NOTES :

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4. REMOVE SINK (BASEMENT BATHROOMS ONLY), SEE PLUMBING DRAWINGS.
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12. REMOVE HEATING PIPE CHASES IN STUDENT ROOMS ENTIRELY. DO NOT DAMAGE ADJACENT WALL AND FLOOR FINISHES.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- SLAB ON GRADE TO BE REMOVED
- NOTE 6
- ITEM TO BE REMOVED OR SALVAGED
- 16" WIDE BY 6'-0" HIGH TOOTHED IN OPENING IN CMU CHASE WALL, PREFERABLY ON THE SIDE WITH NO BRICK FACING

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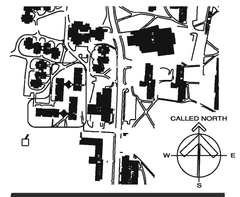
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

No.	Date	Description
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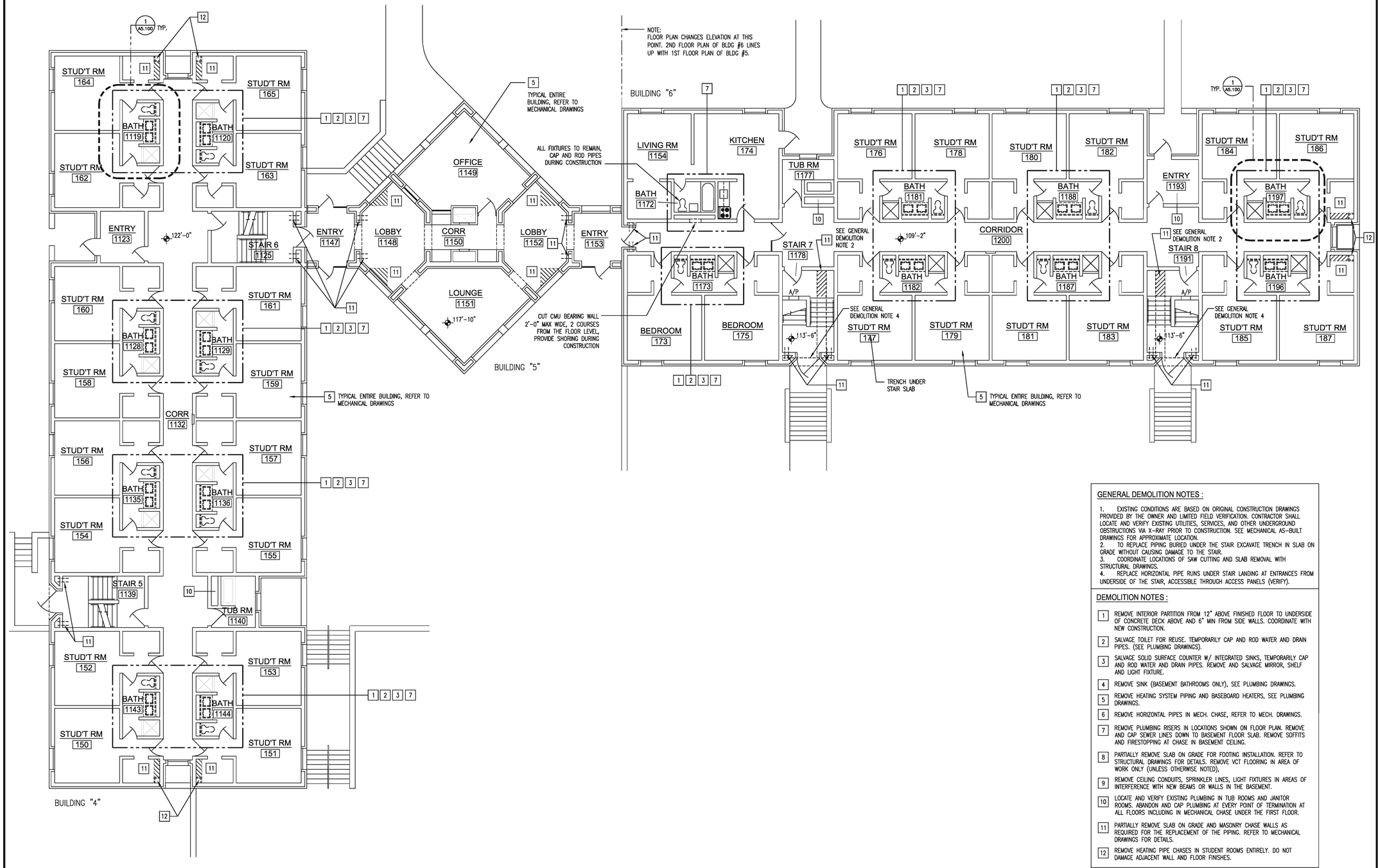
Drawing Title
GORHAM HALL
FIRST FLOOR PLAN
DEMOLITION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.103



GENERAL DEMOLITION NOTES :

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2. TO REPLACE PIPING BURIED UNDER THE STAIR EXCAVATE TRENCH IN SLAB ON GRADE WITHOUT CAUSING DAMAGE TO THE STAIR.
3. COORDINATE LOCATIONS OF SAW CUTTING AND SLAB REMOVAL WITH STRUCTURAL DRAWINGS.
4. REPLACE HORIZONTAL PIPE RUNS UNDER STAIR LANDING AT ENTRANCES FROM UNDERSIDE OF THE STAIR, ACCESSIBLE THROUGH ACCESS PANELS (VERIFY).

DEMOLITION NOTES :

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2. SALVAGE TOILET FOR REUSE. TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. (SEE PLUMBING DRAWINGS).
3. SALVAGE SOLID SURFACE COUNTER W/ INTEGRATED SINKS, TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. REMOVE AND SALVAGE MIRROR, SHELF AND LIGHT FIXTURE.
4. REMOVE SINK (BASEMENT BATHROOMS ONLY), SEE PLUMBING DRAWINGS.
5. REMOVE HEATING SYSTEM PIPING AND BASEBOARD HEATERS, SEE PLUMBING DRAWINGS.
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7. REMOVE PLUMBING RISERS IN LOCATIONS SHOWN ON FLOOR PLAN. REMOVE AND CAP SEWER LINES DOWN TO BASEMENT FLOOR SLAB. REMOVE SOFFITS AND FIRESTOPPING AT CHASE IN BASEMENT CEILING.
8. PARTIALLY REMOVE SLAB ON GRADE FOR FOOTING INSTALLATION. REFER TO STRUCTURAL DRAWINGS FOR DETAILS. REMOVE VCT FLOORING IN AREA OF WORK ONLY (UNLESS OTHERWISE NOTED),
9. REMOVE CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS IN THE BASEMENT.
10. LOCATE AND VERIFY EXISTING PLUMBING IN TUB ROOMS AND JANITOR ROOMS. ABANDON AND CAP PLUMBING AT EVERY POINT OF TERMINATION AT ALL FLOORS INCLUDING IN MECHANICAL CHASE UNDER THE FIRST FLOOR.
11. PARTIALLY REMOVE SLAB ON GRADE AND MASONRY CHASE WALLS AS REQUIRED FOR THE REPLACEMENT OF THE PIPING. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
12. REMOVE HEATING PIPE CHASES IN STUDENT ROOMS ENTIRELY. DO NOT DAMAGE ADJACENT WALL AND FLOOR FINISHES.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- SLAB ON GRADE TO BE REMOVED
- NOTE 6
- ITEM TO BE REMOVED OR SALVAGED
- 16" WIDE BY 6'-0" HIGH TOOTHED IN OPENING IN CMU CHASE WALL, PREFERABLY ON THE SIDE WITH NO BRICK FACING

1 FIRST FLOOR PLAN - FAYERWEATHER HALL
1/8"=1'-0"

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Creative Environment Corp. Consulting Engineers

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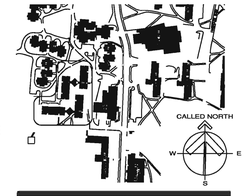
Project
University of Rhode Island
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

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Revisions

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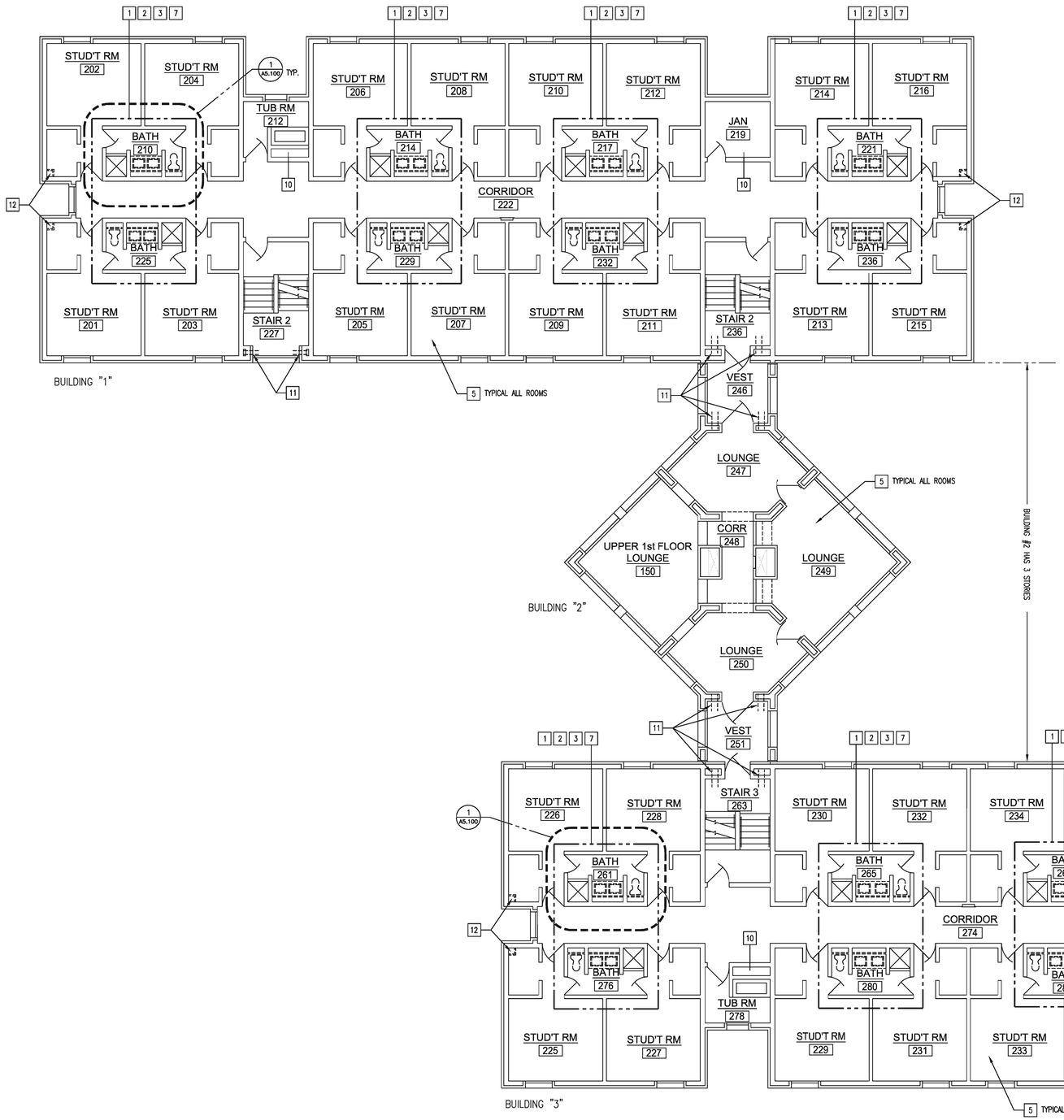
Drawing Title
FAYERWEATHER HALL
FIRST FLOOR PLAN
DEMOLITION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.104



1 SECOND THROUGH FOURTH FLOOR PLAN (TYPICAL) - GORHAM HALL
1/8"=1'-0"

GENERAL DEMOLITION NOTES :

1. EXISTING CONDITIONS ARE BASED ON ORIGINAL CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL LOCATE AND VERIFY EXISTING UTILITIES, SERVICES, AND OTHER UNDERGROUND OBSTRUCTIONS VIA X-RAY PRIOR TO CONSTRUCTION. SEE MECHANICAL AS-BUILT DRAWINGS FOR APPROXIMATE LOCATION.
2. TO REPLACE PIPING BURIED UNDER THE STAIR EXCAVATE TRENCH IN SLAB ON GRADE WITHOUT CAUSING DAMAGE TO THE STAIR.
3. COORDINATE LOCATIONS OF SAW CUTTING AND SLAB REMOVAL WITH STRUCTURAL DRAWINGS.
4. REPLACE HORIZONTAL PIPE RUNS UNDER STAIR LANDING AT ENTRANCES FROM UNDERSIDE OF THE STAIR, ACCESSIBLE THROUGH ACCESS PANELS (VERIFY).

DEMOLITION NOTES :

1. REMOVE INTERIOR PARTITION FROM 12" ABOVE FINISHED FLOOR TO UNDERSIDE OF CONCRETE DECK ABOVE AND 6" MIN FROM SIDE WALLS. COORDINATE WITH NEW CONSTRUCTION.
2. SALVAGE TOILET FOR REUSE. TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. (SEE PLUMBING DRAWINGS).
3. SALVAGE SOLID SURFACE COUNTER W/ INTEGRATED SINKS, TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. REMOVE AND SALVAGE MIRROR, SHELF AND LIGHT FIXTURE.
4. REMOVE SINK (BASEMENT BATHROOMS ONLY), SEE PLUMBING DRAWINGS.
5. REMOVE HEATING SYSTEM PIPING AND BASEBOARD HEATERS, SEE PLUMBING DRAWINGS.
6. REMOVE HORIZONTAL PIPES IN MECH. CHASE, REFER TO MECH. DRAWINGS.
7. REMOVE PLUMBING RISERS IN LOCATIONS SHOWN ON FLOOR PLAN. REMOVE AND CAP SEWER LINES DOWN TO BASEMENT FLOOR SLAB. REMOVE SOFFITS AND FIRESTOPPING AT CHASE IN BASEMENT CEILING.
8. PARTIALLY REMOVE SLAB ON GRADE FOR FOOTING INSTALLATION. REFER TO STRUCTURAL DRAWINGS FOR DETAILS. REMOVE VCT FLOORING IN AREA OF WORK ONLY (UNLESS OTHERWISE NOTED),
9. REMOVE CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS IN THE BASEMENT.
10. LOCATE AND VERIFY EXISTING PLUMBING IN TUB ROOMS AND JANITOR ROOMS. ABANDON AND CAP PLUMBING AT EVERY POINT OF TERMINATION AT ALL FLOORS INCLUDING IN MECHANICAL CHASE UNDER THE FIRST FLOOR.
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12. REMOVE HEATING PIPE CHASES IN STUDENT ROOMS ENTIRELY. DO NOT DAMAGE ADJACENT WALL AND FLOOR FINISHES.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- SLAB ON GRADE TO BE PARTIALLY REMOVED
- NOTE 6
- ITEM TO BE REMOVED OR SALVAGED
- 16" WIDE BY 6'-0" HIGH TOOTHED IN OPENING IN CMU CHASE WALL, PREFERABLY ON THE SIDE WITH NO BRICK FACING

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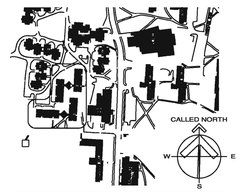
Project
University of Rhode Island
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

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Revisions

No.	Date	Description
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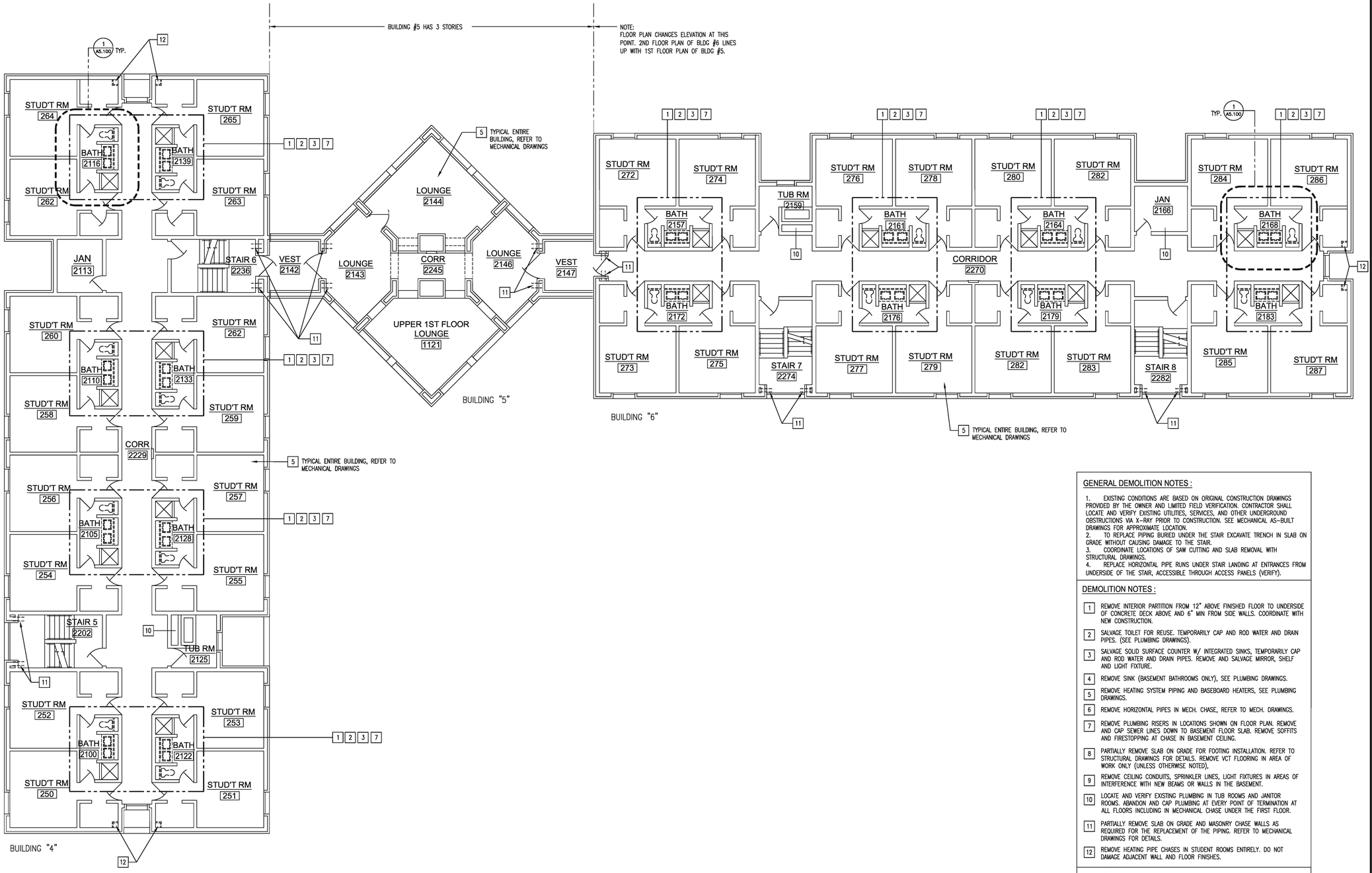
Drawing Title
GORHAM HALL
TYPICAL FLOOR PLAN
DEMOLITION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.105



1 SECOND THROUGH FOURTH FLOOR PLAN (TYPICAL) - FAYERWEATHER HALL
1/8"=1'-0"

GENERAL DEMOLITION NOTES :

1. EXISTING CONDITIONS ARE BASED ON ORIGINAL CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL LOCATE AND VERIFY EXISTING UTILITIES, SERVICES, AND OTHER UNDERGROUND OBSTRUCTIONS VIA X-RAY PRIOR TO CONSTRUCTION. SEE MECHANICAL AS-BUILT DRAWINGS FOR APPROXIMATE LOCATION.
2. TO REPLACE PIPING BURIED UNDER THE STAIR EXCAVATE TRENCH IN SLAB ON GRADE WITHOUT CAUSING DAMAGE TO THE STAIR.
3. COORDINATE LOCATIONS OF SAW CUTTING AND SLAB REMOVAL WITH STRUCTURAL DRAWINGS.
4. REPLACE HORIZONTAL PIPE RUNS UNDER STAIR LANDING AT ENTRANCES FROM UNDERSIDE OF THE STAIR, ACCESSIBLE THROUGH ACCESS PANELS (VERIFY).

DEMOLITION NOTES :

1. REMOVE INTERIOR PARTITION FROM 12" ABOVE FINISHED FLOOR TO UNDERSIDE OF CONCRETE DECK ABOVE AND 6" MIN FROM SIDE WALLS. COORDINATE WITH NEW CONSTRUCTION.
2. SALVAGE TOILET FOR REUSE. TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. (SEE PLUMBING DRAWINGS).
3. SALVAGE SOLID SURFACE COUNTER W/ INTEGRATED SINKS, TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. REMOVE AND SALVAGE MIRROR, SHELF AND LIGHT FIXTURE.
4. REMOVE SINK (BASEMENT BATHROOMS ONLY), SEE PLUMBING DRAWINGS.
5. REMOVE HEATING SYSTEM PIPING AND BASEBOARD HEATERS, SEE PLUMBING DRAWINGS.
6. REMOVE HORIZONTAL PIPES IN MECH. CHASE, REFER TO MECH. DRAWINGS.
7. REMOVE PLUMBING RISERS IN LOCATIONS SHOWN ON FLOOR PLAN. REMOVE AND CAP SEWER LINES DOWN TO BASEMENT FLOOR SLAB. REMOVE SOFFITS AND FIRESTOPPING AT CHASE IN BASEMENT CEILING.
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11. PARTIALLY REMOVE SLAB ON GRADE AND MASONRY CHASE WALLS AS REQUIRED FOR THE REPLACEMENT OF THE PIPING. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
12. REMOVE HEATING PIPE CHASES IN STUDENT ROOMS ENTIRELY. DO NOT DAMAGE ADJACENT WALL AND FLOOR FINISHES.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- SLAB ON GRADE TO BE PARTIALLY REMOVED
- NOTE 6
- ITEM TO BE REMOVED OR SALVAGED
- 16" WIDE BY 6'-0" HIGH TOOTHED IN OPENING IN CMU CHASE WALL, PREFERABLY ON THE SIDE WITH NO BRICK FACING

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Project
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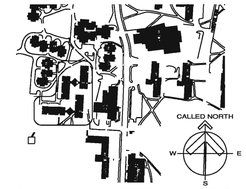
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

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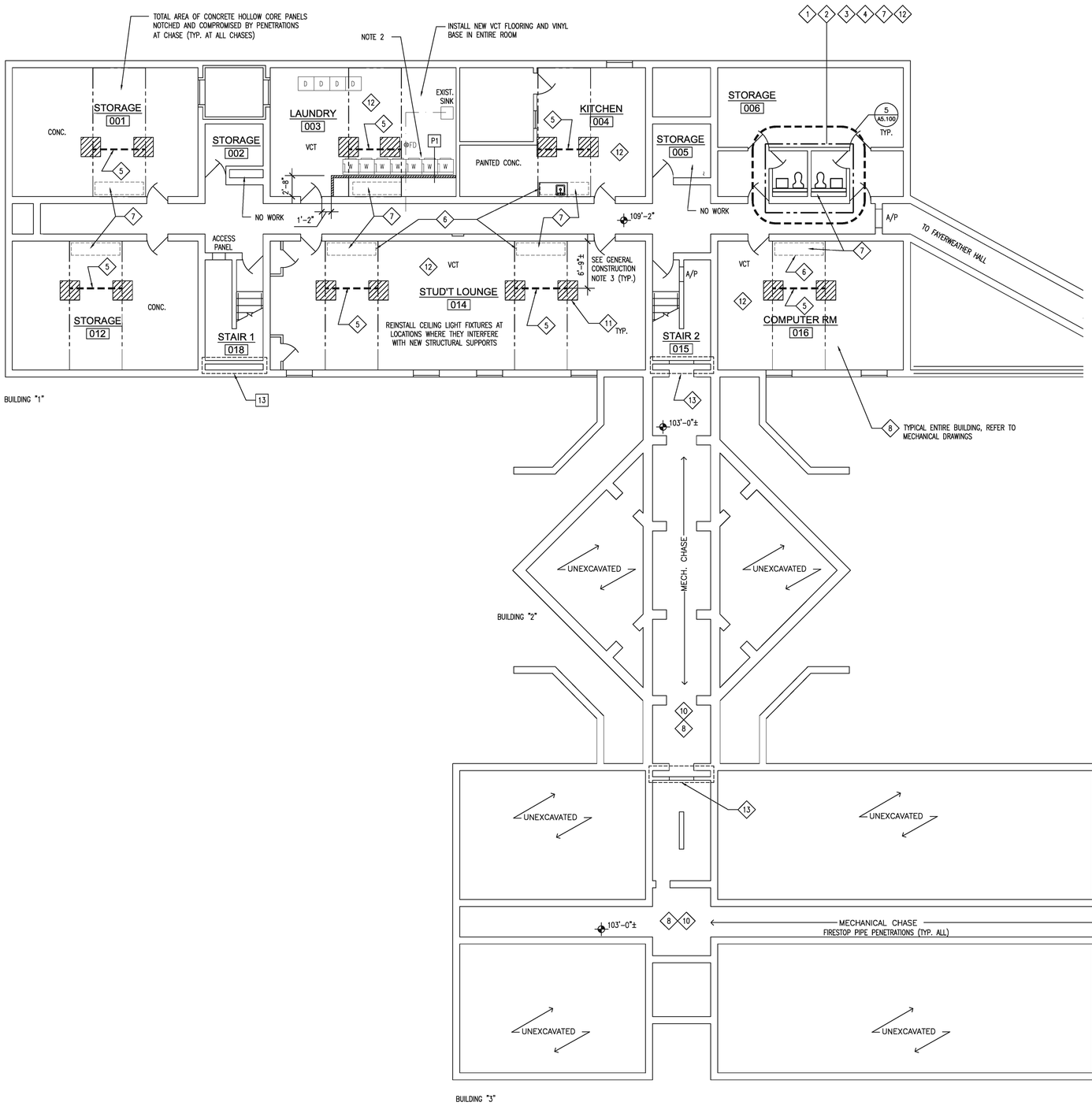
Drawing Title
FAYERWEATHER HALL
TYPICAL FLOOR PLAN DEMOLITION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.106



1 BASEMENT FLOOR PLAN - GORHAM HALL
1/8"=1'-0"

GENERAL CONSTRUCTION NOTES :

1. RELOCATE EXISTING CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS. PROVIDE SPRINKLER COVERAGE EACH SIDE OF NEW BEAMS (TYPICAL ALL ROOMS).
2. RELOCATE EXISTING WASHERS IN LAUNDRY AS REQUIRED FOR ACCESS IN THE AREA OF NEW STRUCTURAL SUPPORT.
3. ALIGN NEW STRUCTURAL REINFORCEMENT FRAMES UNDER EXISTING BEARING WALLS ABOVE. CONTRACTOR TO VERIFY IN FIELD.

CONSTRUCTION NOTES :

1. REPLACE PLUMBING RISERS, (SEE MECHANICAL DRAWINGS). REPLACE VENT PIPES TO UNDERSIDE OF THE ROOF.
2. FILL IN REMOVED CHASE WALL, PROVIDE ACCESS PANELS AT TOILET AND UNDER THE SINK. REFER TO DETAILS ON SHEET A5.100. NEW WALL FINISH TO MATCH EXISTING.
3. RE-MOUNT EXISTING PLUMBING FIXTURES AND ACCESSORIES, PROVIDE CARE TO NOT DISTURB EXISTING FINISHES, SEE SHEET A5.101 FOR DETAILS.
4. INSTALL NEW SINK (BASEMENT BATHROOMS ONLY).
5. REINFORCE DAMAGED HOLLOW CORE CONC. PANELS OF THE FIRST FLOOR: INSTALL CONC. FOOTING AND STEEL FRAMES IN THE BASEMENT, REFER TO STRUCTURAL DWG FOR DETAILS. IN FINISHED ROOMS PAINT ALL STEEL WHITE.
6. INSTALL SOFFITS IN ALL FINISHED ROOMS IN THE BASEMENT, SEE DETAIL 7/A5.100.
7. FIRESTOP PIPE PENETRATIONS (TYPICAL). AT THE BOTTOM OF THE CHASES IN THE BASEMENT CEILING ALL PENETRATIONS HAVE TO BE FILLED WITH FIRE FOAM AND BLOCKED WITH 1/2" CEMENT BOARD.
8. INSTALL NEW HEATING PIPES AND BASEBOARDS, REFER TO MECHANICAL DWGS.
9. REINSTALL CHASES IN STUDENT ROOMS. PRIME AND PAINT WALLS, INSTALL VINYL BASE AND VINYL FLOORING.
10. INSTALL NEW HORIZONTAL PIPES IN MECHANICAL TUNNEL/CHASE, REFER TO MECH. DRAWINGS INSTALL FIRESTOP AT PENETRATIONS.
11. INSTALL VCT FLOORING ABOVE NEW CONC. SLAB IN ALL FINISHED ROOMS IN THE BASEMENT, MATCH EXISTING. REFER TO FLOOR PLANS FOR LOCATIONS.
12. PAINT CEILING AND NEW SOFFITS, COLOR WHITE.
13. REINSTALL SLAB ON GRADE AND MASONRY WALLS AFTER NEW PIPING IS INSTALLED. INSTALL FLOOR AND WALL FINISHES, MATCH EXISTING. FOR FINISHES REFER TO FLOOR PLANS.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- NOTE 5
- NEW SLAB ON GRADE, FINISH AS NOTED

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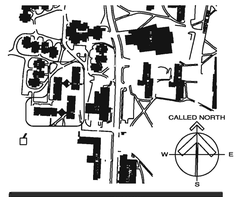
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

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Revisions

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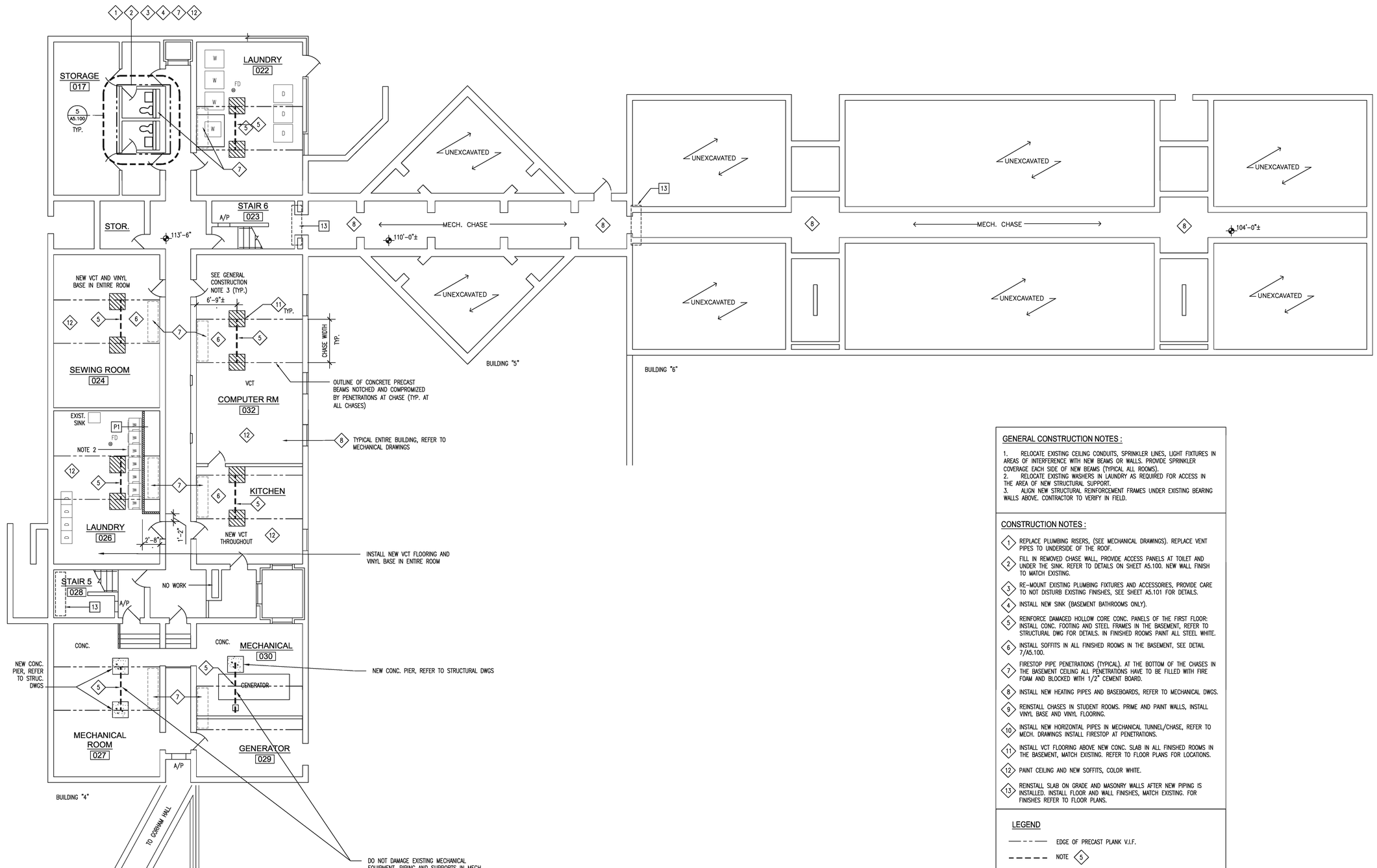
Drawing Title
GORHAM HALL BASEMENT PLAN CONSTRUCTION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.201



1 BASEMENT FLOOR PLAN - FAYERWEATHER HALL
1/8"=1'-0"

GENERAL CONSTRUCTION NOTES :

1. RELOCATE EXISTING CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS. PROVIDE SPRINKLER COVERAGE EACH SIDE OF NEW BEAMS (TYPICAL ALL ROOMS).
2. RELOCATE EXISTING WASHERS IN LAUNDRY AS REQUIRED FOR ACCESS IN THE AREA OF NEW STRUCTURAL SUPPORT.
3. ALIGN NEW STRUCTURAL REINFORCEMENT FRAMES UNDER EXISTING BEARING WALLS ABOVE. CONTRACTOR TO VERIFY IN FIELD.

CONSTRUCTION NOTES :

1. REPLACE PLUMBING RISERS, (SEE MECHANICAL DRAWINGS). REPLACE VENT PIPES TO UNDERSIDE OF THE ROOF.
2. FILL IN REMOVED CHASE WALL, PROVIDE ACCESS PANELS AT TOILET AND UNDER THE SINK. REFER TO DETAILS ON SHEET A5.100. NEW WALL FINISH TO MATCH EXISTING.
3. RE-MOUNT EXISTING PLUMBING FIXTURES AND ACCESSORIES, PROVIDE CARE TO NOT DISTURB EXISTING FINISHES, SEE SHEET A5.101 FOR DETAILS.
4. INSTALL NEW SINK (BASEMENT BATHROOMS ONLY).
5. REINFORCE DAMAGED HOLLOW CORE CONC. PANELS OF THE FIRST FLOOR: INSTALL CONC. FOOTING AND STEEL FRAMES IN THE BASEMENT, REFER TO STRUCTURAL DWG FOR DETAILS. IN FINISHED ROOMS PAINT ALL STEEL WHITE.
6. INSTALL SOFFITS IN ALL FINISHED ROOMS IN THE BASEMENT, SEE DETAIL 7/A5.100.
7. FIRESTOP PIPE PENETRATIONS (TYPICAL). AT THE BOTTOM OF THE CHASES IN THE BASEMENT CEILING ALL PENETRATIONS HAVE TO BE FILLED WITH FIRE FOAM AND BLOCKED WITH 1/2" CEMENT BOARD.
8. INSTALL NEW HEATING PIPES AND BASEBOARDS, REFER TO MECHANICAL DWGS.
9. REINSTALL CHASES IN STUDENT ROOMS. PRIME AND PAINT WALLS, INSTALL VINYL BASE AND VINYL FLOORING.
10. INSTALL NEW HORIZONTAL PIPES IN MECHANICAL TUNNEL/CHASE, REFER TO MECH. DRAWINGS INSTALL FIRESTOP AT PENETRATIONS.
11. INSTALL VCT FLOORING ABOVE NEW CONC. SLAB IN ALL FINISHED ROOMS IN THE BASEMENT, MATCH EXISTING. REFER TO FLOOR PLANS FOR LOCATIONS.
12. PAINT CEILING AND NEW SOFFITS, COLOR WHITE.
13. REINSTALL SLAB ON GRADE AND MASONRY WALLS AFTER NEW PIPING IS INSTALLED. INSTALL FLOOR AND WALL FINISHES, MATCH EXISTING. FOR FINISHES REFER TO FLOOR PLANS.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- NOTE 5
- NEW SLAB ON GRADE, FINISH AS NOTED

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Creative Environment Corp. Consulting Engineers

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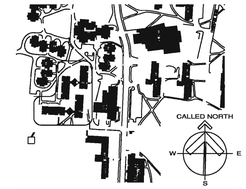

Seals
CONSTRUCTION DOCUMENTS

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Revisions

No.	Date	Description
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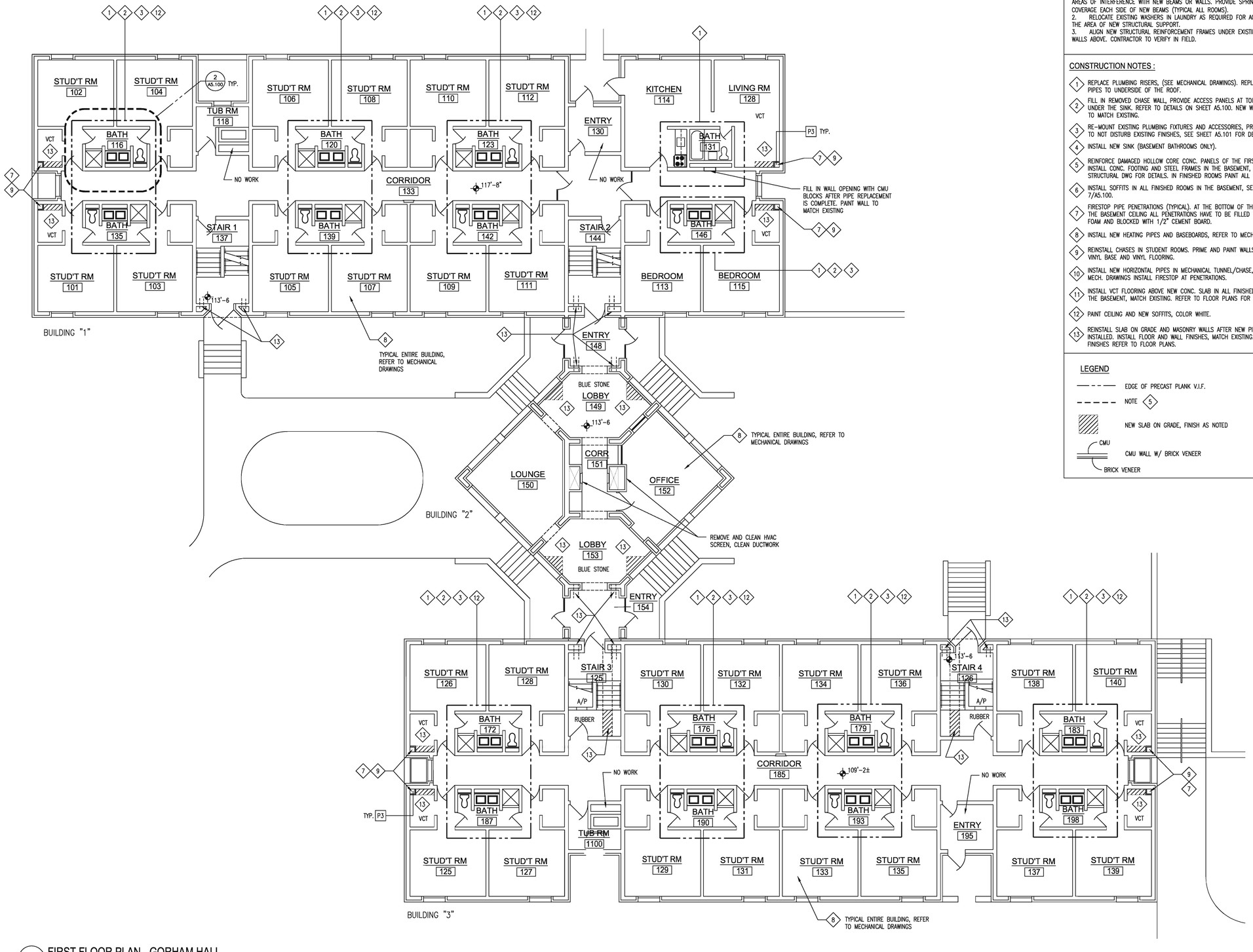
Drawing Title
FAYERWEATHER HALL
BASEMENT PLAN CONSTRUCTION

Issue Date: 01/30/2015

Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.202



1 FIRST FLOOR PLAN - GORHAM HALL
1/8"=1'-0"

GENERAL CONSTRUCTION NOTES :

1. RELOCATE EXISTING CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS. PROVIDE SPRINKLER COVERAGE EACH SIDE OF NEW BEAMS (TYPICAL ALL ROOMS).
2. RELOCATE EXISTING WASHERS IN LAUNDRY AS REQUIRED FOR ACCESS IN THE AREA OF NEW STRUCTURAL SUPPORT.
3. ALIGN NEW STRUCTURAL REINFORCEMENT FRAMES UNDER EXISTING BEARING WALLS ABOVE. CONTRACTOR TO VERIFY IN FIELD.

CONSTRUCTION NOTES :

1. REPLACE PLUMBING RISERS, (SEE MECHANICAL DRAWINGS). REPLACE VENT PIPES TO UNDERSIDE OF THE ROOF.
2. FILL IN REMOVED CHASE WALL, PROVIDE ACCESS PANELS AT TOILET AND UNDER THE SINK. REFER TO DETAILS ON SHEET A5.100. NEW WALL FINISH TO MATCH EXISTING.
3. RE-MOUNT EXISTING PLUMBING FIXTURES AND ACCESSORIES, PROVIDE CARE TO NOT DISTURB EXISTING FINISHES, SEE SHEET A5.101 FOR DETAILS.
4. INSTALL NEW SINK (BASEMENT BATHROOMS ONLY).
5. REINFORCE DAMAGED HOLLOW CORE CONC. PANELS OF THE FIRST FLOOR: INSTALL CONC. FOOTING AND STEEL FRAMES IN THE BASEMENT, REFER TO STRUCTURAL DWG FOR DETAILS. IN FINISHED ROOMS PAINT ALL STEEL WHITE.
6. INSTALL SOFFITS IN ALL FINISHED ROOMS IN THE BASEMENT, SEE DETAIL 7/A5.100.
7. FIRESTOP PIPE PENETRATIONS (TYPICAL). AT THE BOTTOM OF THE CHASES IN THE BASEMENT CEILING ALL PENETRATIONS HAVE TO BE FILLED WITH FIRE FOAM AND BLOCKED WITH 1/2" CEMENT BOARD.
8. INSTALL NEW HEATING PIPES AND BASEBOARDS, REFER TO MECHANICAL DWGS.
9. REINSTALL CHASES IN STUDENT ROOMS. PRIME AND PAINT WALLS, INSTALL VINYL BASE AND VINYL FLOORING.
10. INSTALL NEW HORIZONTAL PIPES IN MECHANICAL TUNNEL/CHASE, REFER TO MECH. DRAWINGS INSTALL FIRESTOP AT PENETRATIONS.
11. INSTALL VCT FLOORING ABOVE NEW CONC. SLAB IN ALL FINISHED ROOMS IN THE BASEMENT, MATCH EXISTING. REFER TO FLOOR PLANS FOR LOCATIONS.
12. PAINT CEILING AND NEW SOFFITS, COLOR WHITE.
13. REINSTALL SLAB ON GRADE AND MASONRY WALLS AFTER NEW PIPING IS INSTALLED. INSTALL FLOOR AND WALL FINISHES, MATCH EXISTING. FOR FINISHES REFER TO FLOOR PLANS.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- NOTE 5
- NEW SLAB ON GRADE, FINISH AS NOTED
- CMU WALL W/ BRICK VENEER (CMU / BRICK VENEER)

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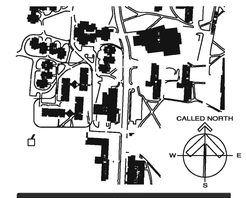
Creative Environment Corp. Consulting Engineers

Owner
THE UNIVERSITY OF RHODE ISLAND
THINK BIG WE DO

Project
University of Rhode Island
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

No.	Date	Description
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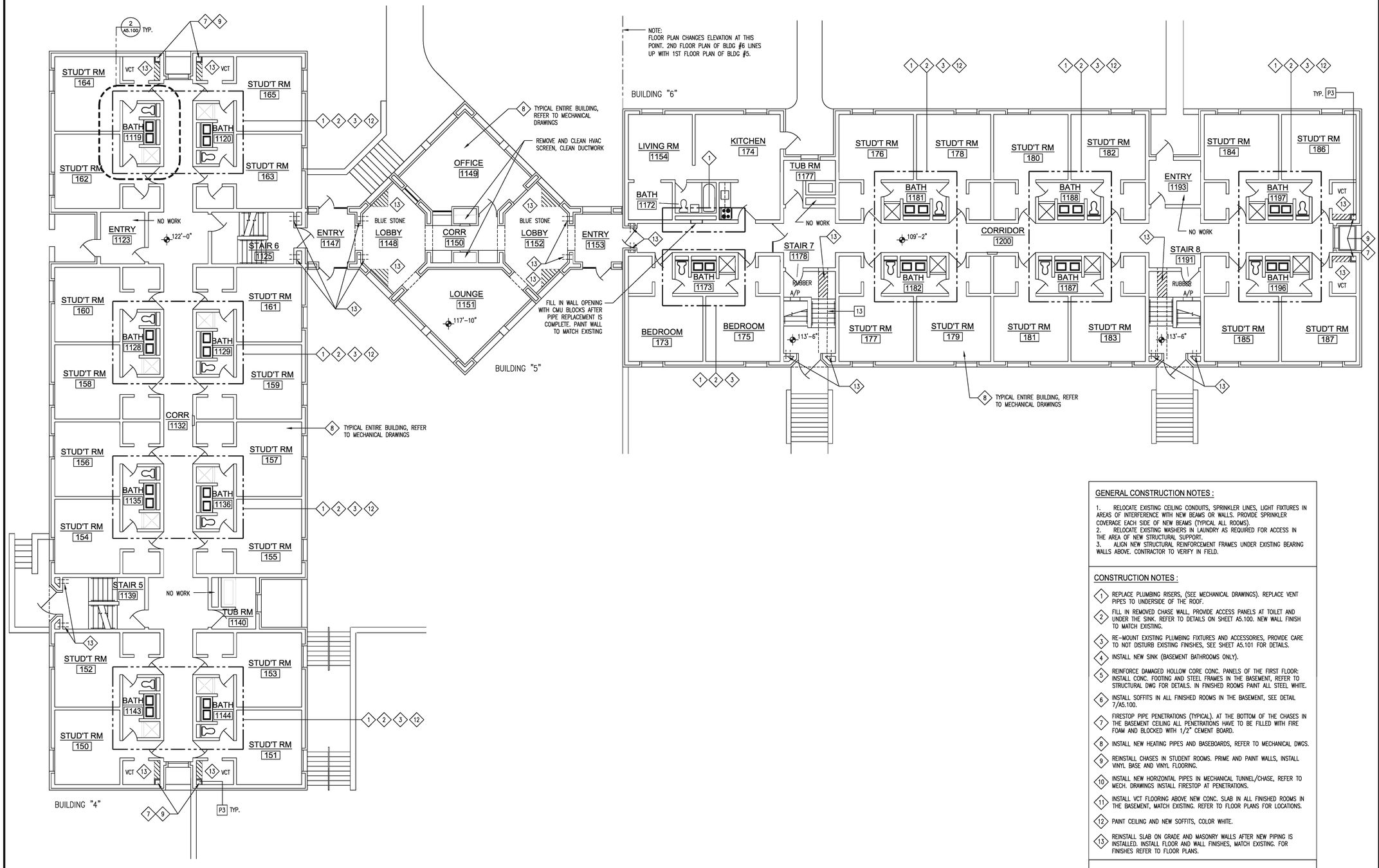
Drawing Title
GORHAM HALL
FIRST FLOOR PLAN
CONSTRUCTION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.203



1 FIRST FLOOR PLAN - FAYERWEATHER HALL
1/8"=1'-0"

GENERAL CONSTRUCTION NOTES :

1. RELOCATE EXISTING CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS. PROVIDE SPRINKLER COVERAGE EACH SIDE OF NEW BEAMS (TYPICAL ALL ROOMS).
2. RELOCATE EXISTING WASHERS IN LAUNDRY AS REQUIRED FOR ACCESS IN THE AREA OF NEW STRUCTURAL SUPPORT.
3. ALIGN NEW STRUCTURAL REINFORCEMENT FRAMES UNDER EXISTING BEARING WALLS ABOVE. CONTRACTOR TO VERIFY IN FIELD.

CONSTRUCTION NOTES :

1. REPLACE PLUMBING RISERS, (SEE MECHANICAL DRAWINGS). REPLACE VENT PIPES TO UNDERSIDE OF THE ROOF.
2. FILL IN REMOVED CHASE WALL, PROVIDE ACCESS PANELS AT TOILET AND UNDER THE SINK. REFER TO DETAILS ON SHEET A5.100. NEW WALL FINISH TO MATCH EXISTING.
3. RE-MOUNT EXISTING PLUMBING FIXTURES AND ACCESSORIES, PROVIDE CARE TO NOT DISTURB EXISTING FINISHES, SEE SHEET A5.101 FOR DETAILS.
4. INSTALL NEW SINK (BASEMENT BATHROOMS ONLY).
5. REINFORCE DAMAGED HOLLOW CORE CONC. PANELS OF THE FIRST FLOOR: INSTALL CONC. FOOTING AND STEEL FRAMES IN THE BASEMENT, REFER TO STRUCTURAL DWG FOR DETAILS. IN FINISHED ROOMS PAINT ALL STEEL WHITE.
6. INSTALL SOFFITS IN ALL FINISHED ROOMS IN THE BASEMENT, SEE DETAIL 7/A5.100.
7. FIRESTOP PIPE PENETRATIONS (TYPICAL). AT THE BOTTOM OF THE CHASES IN THE BASEMENT CEILING ALL PENETRATIONS HAVE TO BE FILLED WITH FIRE FOAM AND BLOCKED WITH 1/2" CEMENT BOARD.
8. INSTALL NEW HEATING PIPES AND BASEBOARDS, REFER TO MECHANICAL DWGS.
9. REINSTALL CHASES IN STUDENT ROOMS. PRIME AND PAINT WALLS, INSTALL VINYL BASE AND VINYL FLOORING.
10. INSTALL NEW HORIZONTAL PIPES IN MECHANICAL TUNNEL/CHASE, REFER TO MECH. DRAWINGS INSTALL FIRESTOP AT PENETRATIONS.
11. INSTALL VCT FLOORING ABOVE NEW CONC. SLAB IN ALL FINISHED ROOMS IN THE BASEMENT, MATCH EXISTING. REFER TO FLOOR PLANS FOR LOCATIONS.
12. PAINT CEILING AND NEW SOFFITS, COLOR WHITE.
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LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- NOTE 5
- NEW SLAB ON GRADE, FINISH AS NOTED
- CMU WALL W/ BRICK VENEER (CMU / BRICK VENEER)

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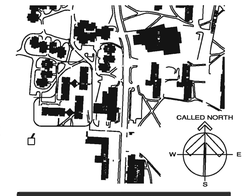
FAYERWEATHER & GORHAM
PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS
JEFFREY J. WYSOCKI REGISTERED ARCHITECT

Issues

Date	Description
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Revisions

No.	Date	Description
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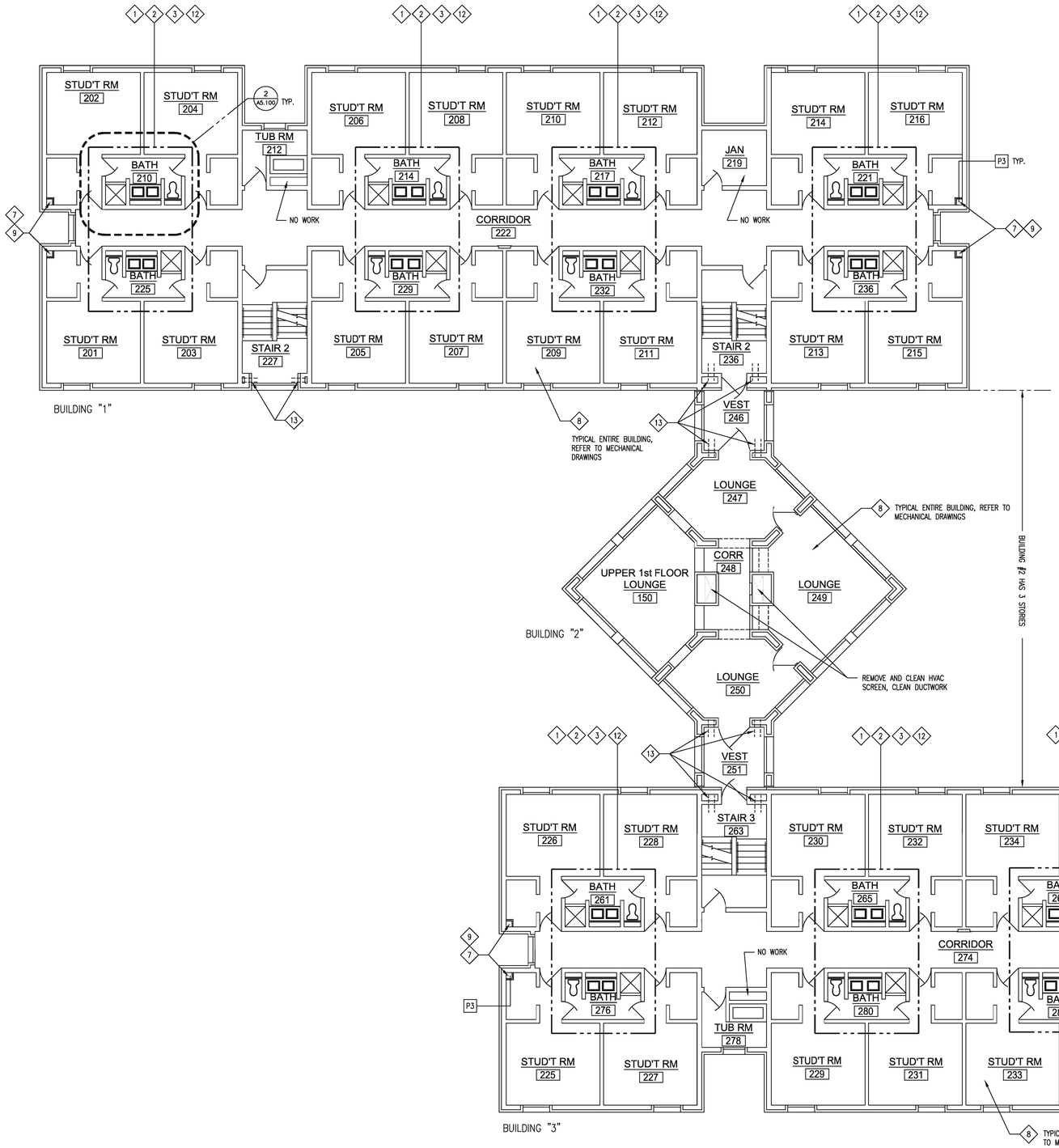
Drawing Title
FAYERWEATHER HALL
FIRST FLOOR PLAN
CONSTRUCTION

Issue Date:	01/30/2015
Project No: URI20IN	Scale: AS NOTED
Project Manager: MT	Production Leader: LT
Project Architect: MT	Peer Reviewer:

Drawing Number
A2.204



1 SECOND THROUGH FOURTH FLOOR PLAN (TYPICAL) - GORHAM HALL
1/8"=1'-0"

GENERAL CONSTRUCTION NOTES :

1. RELOCATE EXISTING CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS. PROVIDE SPRINKLER COVERAGE EACH SIDE OF NEW BEAMS (TYPICAL ALL ROOMS).
2. RELOCATE EXISTING WASHERS IN LAUNDRY AS REQUIRED FOR ACCESS IN THE AREA OF NEW STRUCTURAL SUPPORT.
3. ALIGN NEW STRUCTURAL REINFORCEMENT FRAMES UNDER EXISTING BEARING WALLS ABOVE. CONTRACTOR TO VERIFY IN FIELD.

CONSTRUCTION NOTES :

1. REPLACE PLUMBING RISERS, (SEE MECHANICAL DRAWINGS). REPLACE VENT PIPES TO UNDERSIDE OF THE ROOF.
2. FILL IN REMOVED CHASE WALL, PROVIDE ACCESS PANELS AT TOILET AND UNDER THE SINK. REFER TO DETAILS ON SHEET A5.100. NEW WALL FINISH TO MATCH EXISTING.
3. RE-MOUNT EXISTING PLUMBING FIXTURES AND ACCESSORIES, PROVIDE CARE TO NOT DISTURB EXISTING FINISHES, SEE SHEET A5.101 FOR DETAILS.
4. INSTALL NEW SINK (BASEMENT BATHROOMS ONLY).
5. REINFORCE DAMAGED HOLLOW CORE CONC. PANELS OF THE FIRST FLOOR: INSTALL CONC. FOOTING AND STEEL FRAMES IN THE BASEMENT, REFER TO STRUCTURAL DWG FOR DETAILS. IN FINISHED ROOMS PAINT ALL STEEL WHITE.
6. INSTALL SOFFITS IN ALL FINISHED ROOMS IN THE BASEMENT, SEE DETAIL 7/A5.100.
7. FIRESTOP PIPE PENETRATIONS (TYPICAL), AT THE BOTTOM OF THE CHASES IN THE BASEMENT CEILING ALL PENETRATIONS HAVE TO BE FILLED WITH FIRE FOAM AND BLOCKED WITH 1/2" CEMENT BOARD.
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LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- NOTE 5
- CMU WALL W/ BRICK VENEER (CMU / BRICK VENEER)

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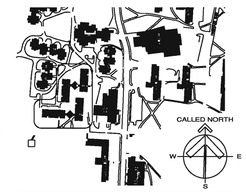
FAYERWEATHER & GORHAM PLUMBING AND HEATING REPLACEMENT
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

No.	Date	Description
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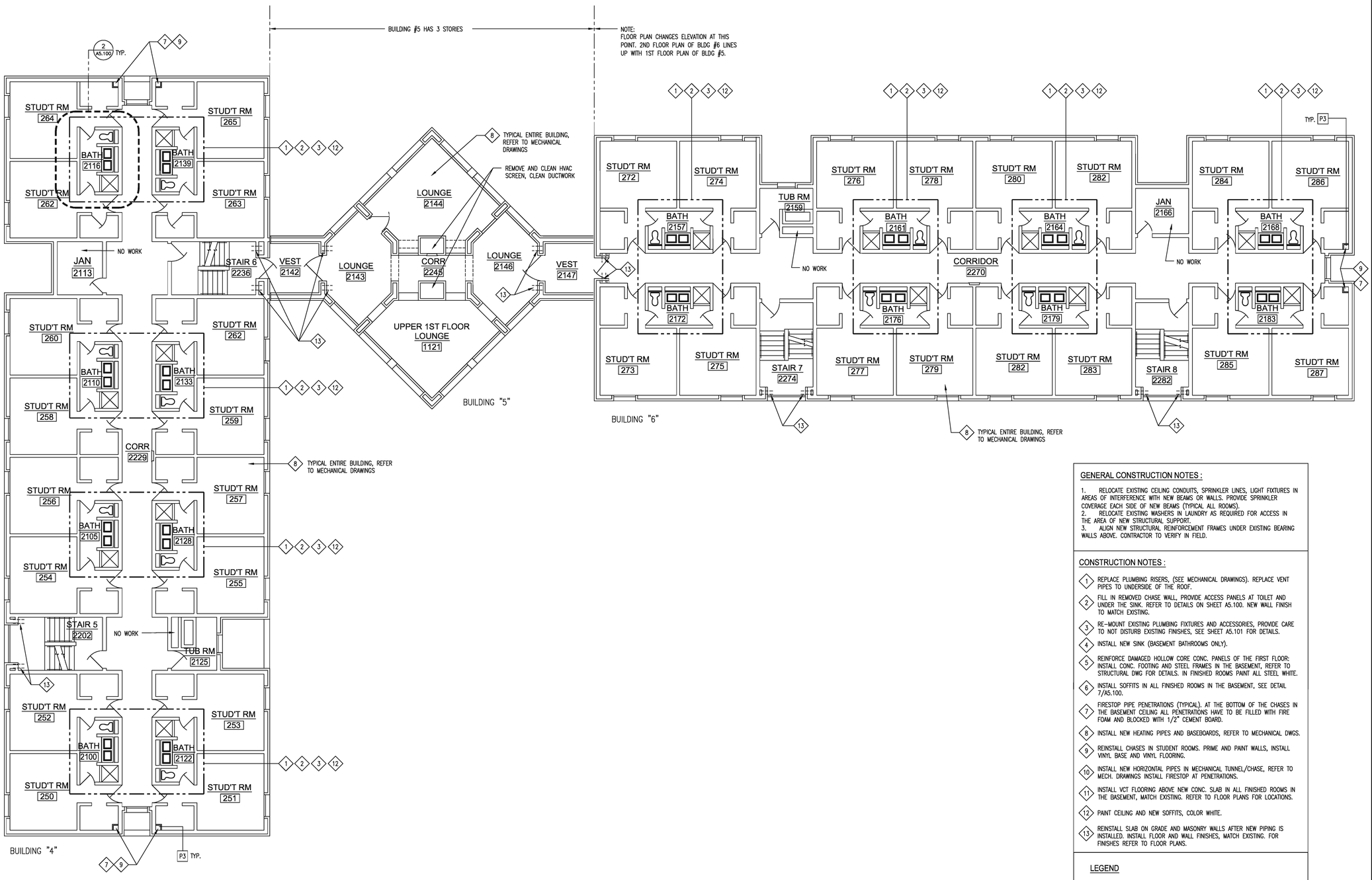
Drawing Title
GORHAM HALL
TYPICAL FLOOR PLAN
CONSTRUCTION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.205



1 SECOND THROUGH FOURTH FLOOR PLAN (TYPICAL) - FAYERWEATHER HALL
1/8"=1'-0"

GENERAL CONSTRUCTION NOTES :

1. RELOCATE EXISTING CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS. PROVIDE SPRINKLER COVERAGE EACH SIDE OF NEW BEAMS (TYPICAL ALL ROOMS).
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3. ALIGN NEW STRUCTURAL REINFORCEMENT FRAMES UNDER EXISTING BEARING WALLS ABOVE. CONTRACTOR TO VERIFY IN FIELD.

CONSTRUCTION NOTES :

1. REPLACE PLUMBING RISERS, (SEE MECHANICAL DRAWINGS). REPLACE VENT PIPES TO UNDERSIDE OF THE ROOF.
2. FILL IN REMOVED CHASE WALL, PROVIDE ACCESS PANELS AT TOILET AND UNDER THE SINK. REFER TO DETAILS ON SHEET A5.100. NEW WALL FINISH TO MATCH EXISTING.
3. RE-MOUNT EXISTING PLUMBING FIXTURES AND ACCESSORIES, PROVIDE CARE TO NOT DISTURB EXISTING FINISHES, SEE SHEET A5.101 FOR DETAILS.
4. INSTALL NEW SINK (BASEMENT BATHROOMS ONLY).
5. REINFORCE DAMAGED HOLLOW CORE CONC. PANELS OF THE FIRST FLOOR; INSTALL CONC. FOOTING AND STEEL FRAMES IN THE BASEMENT, REFER TO STRUCTURAL DWG FOR DETAILS. IN FINISHED ROOMS PAINT ALL STEEL WHITE.
6. INSTALL SOFFITS IN ALL FINISHED ROOMS IN THE BASEMENT, SEE DETAIL 7/A5.100.
7. FIRESTOP PIPE PENETRATIONS (TYPICAL), AT THE BOTTOM OF THE CHASES IN THE BASEMENT CEILING ALL PENETRATIONS HAVE TO BE FILLED WITH FIRE FOAM AND BLOCKED WITH 1/2" CEMENT BOARD.
8. INSTALL NEW HEATING PIPES AND BASEBOARDS, REFER TO MECHANICAL DWGS.
9. REINSTALL CHASES IN STUDENT ROOMS. PRIME AND PAINT WALLS, INSTALL VINYL BASE AND VINYL FLOORING.
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13. REINSTALL SLAB ON GRADE AND MASONRY WALLS AFTER NEW PIPING IS INSTALLED. INSTALL FLOOR AND WALL FINISHES, MATCH EXISTING. FOR FINISHES REFER TO FLOOR PLANS.

LEGEND

- EDGE OF PRECAST PLANK V.I.F.
- NOTE 5
- CMU / BRICK VENEER — CMU WALL W/ BRICK VENEER

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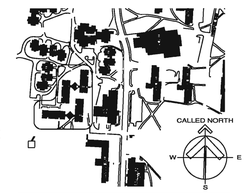
Key Plan



Seals
CONSTRUCTION DOCUMENTS
REGISTERED ARCHITECT

Issues

Date	Description
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Revisions

No.	Date	Description
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Drawing Title
FAYERWEATHER HALL
TYPICAL FLOOR PLAN CONSTRUCTION

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	

Drawing Number
A2.206

1 TYP STUDENT ROOM BATH DEMOLITION PLAN
1/2"=1'-0"

2 TYP STUDENT ROOM BATH PROPOSED PLAN
1/2"=1'-0"

3 ELEVATION @ CHASE WALL - TYPICAL FLOOR
1/2"=1'-0"

4 BASEMENT BATHROOM DEMOLITION PLAN
1/2"=1'-0"

5 BASEMENT BATHROOM PROPOSED PLAN
1/2"=1'-0"

GENERAL DEMOLITION NOTES :

1. EXISTING CONDITIONS ARE BASED ON ORIGINAL CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL LOCATE AND VERIFY EXISTING UTILITIES, SERVICES, AND OTHER UNDERGROUND OBSTRUCTIONS VIA X-RAY PRIOR TO CONSTRUCTION. SEE MECHANICAL AS-BUILT DRAWINGS FOR APPROXIMATE LOCATION.
2. TO REPLACE PIPING BURIED UNDER THE STAIR EXCAVATE TRENCH IN SLAB ON GRADE WITHOUT CAUSING DAMAGE TO THE STAIR.
3. COORDINATE LOCATIONS OF SAW CUTTING AND SLAB REMOVAL WITH STRUCTURAL DRAWINGS.
4. REPLACE HORIZONTAL PIPE RUNS UNDER STAIR LANDING AT ENTRANCES FROM UNDERSIDE OF THE STAIR, ACCESSIBLE THROUGH ACCESS PANELS (VERIFY).

DEMOLITION NOTES :

[1] REMOVE INTERIOR PARTITION FROM 12" ABOVE FINISHED FLOOR TO UNDERSIDE OF CONCRETE DECK ABOVE AND 6" MIN FROM SIDE WALLS. COORDINATE WITH NEW CONSTRUCTION.

[2] SALVAGE TOILET FOR REUSE. TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. (SEE PLUMBING DRAWINGS).

[3] SALVAGE SOLID SURFACE COUNTER W/ INTEGRATED SINKS, TEMPORARILY CAP AND ROD WATER AND DRAIN PIPES. REMOVE AND SALVAGE MIRROR, SHELF AND LIGHT FIXTURE.

[4] REMOVE SINK (BASEMENT BATHROOMS ONLY), SEE PLUMBING DRAWINGS.

[5] REMOVE HEATING SYSTEM PIPING AND BASEBOARD HEATERS, SEE PLUMBING DRAWINGS.

[6] REMOVE HORIZONTAL PIPES IN MECH. CHASE, REFER TO MECH. DRAWINGS.

[7] REMOVE PLUMBING RISERS IN LOCATIONS SHOWN ON FLOOR PLAN. REMOVE AND CAP SEWER LINES DOWN TO BASEMENT FLOOR SLAB. REMOVE SOFFITS AND FIRESTOPPING AT CHASE IN BASEMENT CEILING.

[8] PARTIALLY REMOVE SLAB ON GRADE FOR FOOTING INSTALLATION. REFER TO STRUCTURAL DRAWINGS FOR DETAILS. REMOVE VCT FLOORING IN AREA OF WORK ONLY (UNLESS OTHERWISE NOTED),

[9] REMOVE CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS IN THE BASEMENT.

[10] LOCATE AND VERIFY EXISTING PLUMBING IN TUB ROOMS AND JANITOR ROOMS. ABANDON AND CAP PLUMBING AT EVERY POINT OF TERMINATION AT ALL FLOORS INCLUDING IN MECHANICAL CHASE UNDER THE FIRST FLOOR.

[11] PARTIALLY REMOVE SLAB ON GRADE AND MASONRY CHASE WALLS AS REQUIRED FOR THE REPLACEMENT OF THE PIPING. REFER TO MECHANICAL DRAWINGS FOR DETAILS.

[12] REMOVE HEATING PIPE CHASES IN STUDENT ROOMS ENTIRELY. DO NOT DAMAGE ADJACENT WALL AND FLOOR FINISHES.

GENERAL CONSTRUCTION NOTES :

1. RELOCATE EXISTING CEILING CONDUITS, SPRINKLER LINES, LIGHT FIXTURES IN AREAS OF INTERFERENCE WITH NEW BEAMS OR WALLS. PROVIDE SPRINKLER COVERAGE EACH SIDE OF NEW BEAMS (TYPICAL ALL ROOMS).
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CONSTRUCTION NOTES :

<1> REPLACE PLUMBING RISERS, (SEE MECHANICAL DRAWINGS). REPLACE VENT PIPES TO UNDERSIDE OF THE ROOF.

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<3> RE-MOUNT EXISTING PLUMBING FIXTURES AND ACCESSORIES, PROVIDE CARE TO NOT DISTURB EXISTING FINISHES, SEE SHEET A5.101 FOR DETAILS.

<4> INSTALL NEW SINK (BASEMENT BATHROOMS ONLY).

<5> REINFORCE DAMAGED HOLLOW CORE CONC. PANELS OF THE FIRST FLOOR: INSTALL CONC. FOOTING AND STEEL FRAMES IN THE BASEMENT, REFER TO STRUCTURAL DWG FOR DETAILS. IN FINISHED ROOMS PAINT ALL STEEL WHITE.

<6> INSTALL SOFFITS IN ALL FINISHED ROOMS IN THE BASEMENT, SEE DETAIL 7/A5.100.

<7> FIRESTOP PIPE PENETRATIONS (TYPICAL). AT THE BOTTOM OF THE CHASES IN THE BASEMENT CEILING ALL PENETRATIONS HAVE TO BE FILLED WITH FIRE FOAM AND BLOCKED WITH 1/2" CEMENT BOARD.

<8> INSTALL NEW HEATING PIPES AND BASEBOARDS, REFER TO MECHANICAL DWGS.

<9> REINSTALL CHASES IN STUDENT ROOMS. PRIME AND PAINT WALLS, INSTALL VINYL BASE AND VINYL FLOORING.

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LEGEND

EXISTING CONSTRUCTION

DEMOLITION

NEW CONSTRUCTION

TYPE	RATING	DESIGN	S.T.C.	NOTE
P1	N/A	-	-	

ONE SIDED WALL

TYPE	RATING	DESIGN	S.T.C.	NOTE
P2	N/A	-	-	

ONE SIDED WALL

TYPE	RATING	DESIGN	S.T.C.	NOTE
P3	N/A	-	-	

ONE SIDED WALL

6 WALL TYPES
NTS

NOTE:
PROVIDE ACCESS PANEL AT EACH SOFFIT

7 BASEMENT SOFFIT DETAIL
1-1/2"=1'-0

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PLUMBING AND HEATING
REPLACEMENT
KINGSTON, RI

Key Plan

Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description
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Revisions

No.	Date	Description
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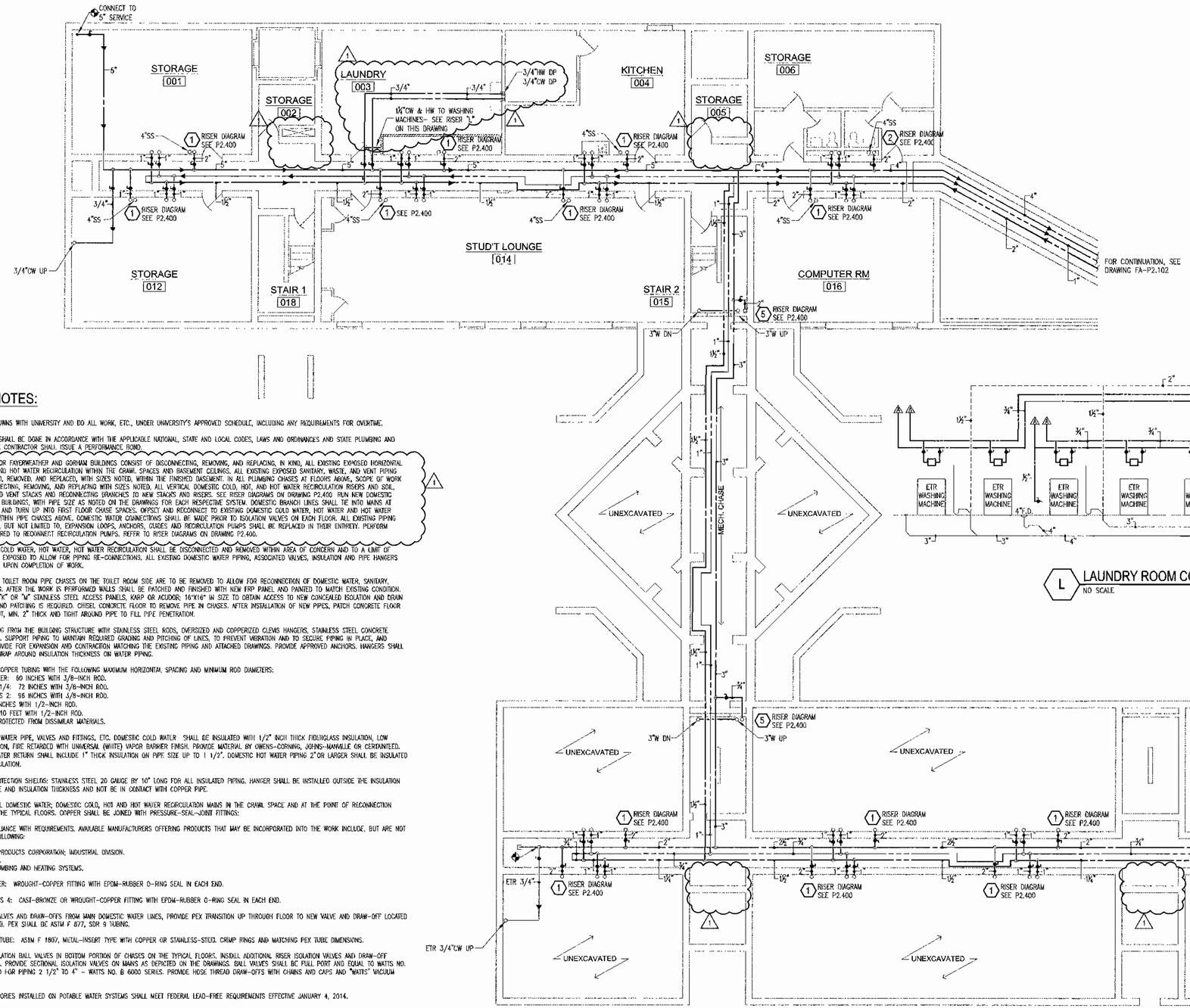
Drawing Title
ENLARGED TYPICAL FLOOR PLANS, INT. ELEVATIONS AND DETAILS

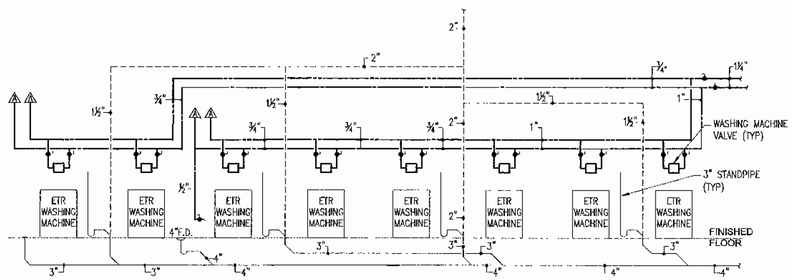
Issue Date: 01/30/2015

Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	MT	Production Leader:	LT
Project Architect:	MT	Peer Reviewer:	SM

Drawing Number
A5.100



1 BASEMENT PLUMBING PLAN - GORHAM
1/8"=1'-0"



L LAUNDRY ROOM CONNECTIONS
NO SCALE

PLUMBING NOTES:

A. COORDINATE ALL SHUTDOWNS WITH UNIVERSITY AND DO ALL WORK, ETC., UNDER UNIVERSITY'S APPROVED SCHEDULE, INCLUDING ANY REQUIREMENTS FOR OVERTIME.

B. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES AND STATE PLUMBING AND MECHANICAL CODES. THE CONTRACTOR SHALL ISSUE A PERFORMANCE BOND.

C. THE SCOPE OF WORK FOR FAYERWEATHER AND GORHAM BUILDINGS CONSIST OF DISCONNECTING, REMOVING, AND REPLACING, IN KIND, ALL EXISTING EXPOSED HORIZONTAL DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATION WITHIN THE CRAWL SPACES AND BASEMENT CEILINGS. ALL EXISTING EXPOSED SANITARY, WASTE, AND VENT PIPING SHALL BE DISCONNECTED, REMOVED, AND REPLACED, WITH SIZES NOTED, WITHIN THE FINISHED BASEMENT. IN ALL PLUMBING CHASES AT FLOORS ABOVE, SCOPE OF WORK SHALL INCLUDE DISCONNECTING, REMOVING, AND REPLACING WITH SIZES NOTED, ALL VERTICAL DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATION RISERS AND SOIL, WASTE, RAIN LEADER AND VENT STACKS AND RECONNECTING BRANCHES TO NEW STACKS AND RISERS. SEE RISER DIAGRAMS ON DRAWING P2.400. RUN NEW DOMESTIC WATER PIPING THROUGH BUILDINGS, WITH PIPE SIZE AS NOTED ON THE DRAWINGS FOR EACH RESPECTIVE SYSTEM. DOMESTIC BRANCH LINES SHALL TIE INTO MAINS AT CRAWL SPACE CEILINGS, AND TURN UP INTO FIRST FLOOR CHASE SPACES. OFFSET AND RECONNECT TO EXISTING DOMESTIC COLD WATER, HOT WATER AND HOT WATER RECIRCULATION PIPING WITHIN PIPE CHASES ABOVE. DOMESTIC WATER CONNECTIONS SHALL BE MADE PRIOR TO ISOLATION VALVES ON EACH FLOOR. ALL EXISTING PIPING ACCESSORIES INCLUDING, BUT NOT LIMITED TO, EXPANSION LOOPS, ANCHORS, GUIDES AND RECIRCULATION PUMPS SHALL BE REPLACED IN THEIR ENTIRETY. PERFORM ELECTRICAL WORK REQUIRED TO RECONNECT RECIRCULATION PUMPS. REFER TO RISER DIAGRAMS ON DRAWING P2.400.

D. ALL EXISTING DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRCULATION SHALL BE DISCONNECTED AND REMOVED WITHIN AREA OF CONCERN AND TO A LIMIT OF AREAS WHERE PIPING IS EXPOSED TO ALLOW FOR PIPING RE-CONNECTIONS. ALL EXISTING DOMESTIC WATER PIPING, ASSOCIATED VALVES, INSULATION AND PIPE HANGERS SHALL BE DISPOSED OF, UPON COMPLETION OF WORK.

E. EXISTING TYPICAL FLOOR TOILET ROOM PIPE CHASES ON THE TOILET ROOM SIDE ARE TO BE REMOVED TO ALLOW FOR RECONNECTION OF DOMESTIC WATER, SANITARY, WASTE, AND VENT PIPING. AFTER THE WORK IS PERFORMED WALLS SHALL BE PATCHED AND FINISHED WITH NEW FRP PANEL AND PAINTED TO MATCH EXISTING CONDITION. PROVIDE MILCOR STYLE "K" OR "M" STAINLESS STEEL ACCESS PANELS, KARP OR ACUDOR, 16"X16" IN SIZE TO OBTAIN ACCESS TO NEW CONCEALED ISOLATION AND DRAIN BALL VALVES. CUTTING AND PATCHING IS REQUIRED. CHISEL CONCRETE FLOOR TO REMOVE PIPE IN CHASES. AFTER INSTALLATION OF NEW PIPES, PATCH CONCRETE FLOOR WITH NON-SHRINK GROUT, MIN. 2" THICK AND TIGHT AROUND PIPE TO FILL PIPE PENETRATION.

F. SUPPORT ALL NEW PIPING FROM THE BUILDING STRUCTURE WITH STAINLESS STEEL RODS, OVERSIZED AND COPPERIZED CLEVIS HANGERS, STAINLESS STEEL CONCRETE INSERTS AND LAG BOLTS. SUPPORT PIPING TO MAINTAIN REQUIRED GRADING AND PITCHING OF LINES, TO PREVENT VIBRATION AND TO SECURE PIPING IN PLACE, AND ARRANGE SO AS TO PROVIDE FOR EXPANSION AND CONTRACTION MATCHING THE EXISTING PIPING AND ATTACHED DRAWINGS. PROVIDE APPROVED ANCHORS. HANGERS SHALL BE LARGE ENOUGH TO WRAP AROUND INSULATION THICKNESS ON WATER PIPING.

G. INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
NPS 3/4 AND SMALLER: 60 INCHES WITH 3/8-INCH ROD.
NPS 1 AND NPS 1-1/4: 72 INCHES WITH 3/8-INCH ROD.
NPS 1-1/2 AND NPS 2: 96 INCHES WITH 3/8-INCH ROD.
NPS 2-1/2: 108 INCHES WITH 1/2-INCH ROD.
NPS 3 TO NPS 5: 10 FEET WITH 1/2-INCH ROD.
ALL PIPING SHALL BE PROTECTED FROM DISSIMILAR MATERIALS.

H. INSULATE ALL DOMESTIC WATER PIPE, VALVES AND FITTINGS, ETC. DOMESTIC COLD WATER SHALL BE INSULATED WITH 1/2" INCH THICK FIBERGLASS INSULATION, LOW PRESSURE PIPE INSULATION, FIRE RETARDED WITH UNIVERSAL (WHITE) VAPOR BARRIER FINISH. PROVIDE MATERIAL BY OWENS-CORNING, JOHNS-MANVILLE OR CERTAINTEED. HOT WATER AND HOT WATER RETURN SHALL INCLUDE 1" THICK INSULATION ON PIPE SIZE UP TO 1 1/2". DOMESTIC HOT WATER PIPING 2"OR LARGER SHALL BE INSULATED WITH 1-1/2" THICK INSULATION.

I. PROVIDE INSULATION PROTECTION SHIELDS: STAINLESS STEEL 20 GAUGE BY 10" LONG FOR ALL INSULATED PIPING. HANGER SHALL BE INSTALLED OUTSIDE THE INSULATION SIZED TO SUIT PIPE SIZE AND INSULATION THICKNESS AND NOT BE IN CONTACT WITH COPPER PIPE.

J. PROVIDE TYPE L FOR ALL DOMESTIC WATER; DOMESTIC COLD, HOT AND HOT WATER RECIRCULATION MAINS IN THE CRAWL SPACE AND AT THE POINT OF RECONNECTION WITHIN THE CHASES IN THE TYPICAL FLOORS. COPPER SHALL BE JOINED WITH PRESSURE-SEAL-JOINT FITTINGS:

1. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   A. ELKHART PRODUCTS CORPORATION; INDUSTRIAL DIVISION.
   B. NIBCO INC.
   C. VIEGA; PLUMBING AND HEATING SYSTEMS.
2. NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM-RUBBER O-RING SEAL IN EACH END.
3. NPS 2-1/2 TO NPS 4: CAST-BRONZE OR WROUGHT-COPPER FITTING WITH EPDM-RUBBER O-RING SEAL IN EACH END.

AFTER NEW ISOLATION VALVES AND DRAW-OFFS FROM MAIN DOMESTIC WATER LINES, PROVIDE PEX TRANSITION UP THROUGH FLOOR TO NEW VALVE AND DRAW-OFF LOCATED ABOVE FIRST FLOOR SLAB. PEX SHALL BE ASTM F 877, SDR 9 TUBING.

1. FITTINGS FOR PEX TUBE: ASTM F 1807, METAL-INSERT TYPE WITH COPPER OR STAINLESS-STEEL CRIMP RINGS AND MATCHING PEX TUBE DIMENSIONS.

K. INSTALL NEW BRASS ISOLATION BALL VALVES IN BOTTOM PORTION OF CHASES ON THE TYPICAL FLOORS. INSTALL ADDITIONAL RISER ISOLATION VALVES AND DRAW-OFF VALVES IN CRAWL SPACE. PROVIDE SECTIONAL ISOLATION VALVES ON MAINS AS DEPICTED ON THE DRAWINGS. BALL VALVES SHALL BE FULL PORT AND EQUAL TO WATTS NO. B 6080 1/2" TO 2" AND FOR PIPING 2 1/2" TO 4" - WATTS NO. B 6000 SERIES. PROVIDE HOSE THREAD DRAW-OFFS WITH CHAINS AND CAPS AND "WATTS" VACUUM BREAKER.

L. ALL VALVES AND ACCESSORIES INSTALLED ON POTABLE WATER SYSTEMS SHALL MEET FEDERAL LEAD-FREE REQUIREMENTS EFFECTIVE JANUARY 4, 2014.

M. CLEAN AND DISINFECT DOMESTIC WATER PIPING AS FOLLOWS:
A. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
B. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR FOLLOW PROCEDURES DESCRIBED BELOW:
C. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
D. FILL AND ISOLATE SYSTEM ACCORDING TO EITHER OF THE FOLLOWING:
E. FILL ENTIRE SYSTEMS OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
F. FILL ENTIRE SYSTEMS OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ISOLATE AND ALLOW TO STAND FOR THREE HOURS.
G. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
H. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.

N. ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN. ALL WORK, MATERIALS, ETC. IS TO BE IN ACCORDANCE WITH STATE ELECTRICAL CODE REQUIREMENTS.

O. SEE SPECIFICATION SECTION 22 22 22 PLUMBING FOR ADDITIONAL INFORMATION.

P. ALL FIRE PROTECTION AND DETECTION DEVICES SHALL BE WRAPPED AND PROTECTED DURING CONSTRUCTION TO PREVENT FALSE ALARMS AND NOTIFICATIONS.

Q. ALL EXISTING PLUMBING FIXTURES SHALL BE DISCONNECTED, REMOVED, PROTECTED AND STORED DURING CONSTRUCTION, AS REQUIRED TO PERFORM REPLACEMENT OF RISERS AND STACKS WITHIN PLUMBING CHASES. UPON COMPLETION OF PIPING, RECONNECT PLUMBING FIXTURES. PROVIDE NEW P-TRAPS, SUPPLIES, STOPS, AND ADA INSULATION AS REQUIRED.

RICHARD C. NEWELL
No. 8486
REGISTERED 2.1.15
PROFESSIONAL ENGINEER
MECHANICAL

TectonArchitects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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HVAC-ELECTRICAL-PLUMBING -FIRE PROTECTION-
50 OFFICE PARKWAY
EAST PROVIDENCE, RI 02914
P 401.438.7733 F 401.438.7630
120 MAPLE STREET SUITE 304
SPRINGFIELD, MA 01103
P 413.858.7540 F 413.700.1294
WWW.CEC-ENGINEERING.COM

Owner
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Project
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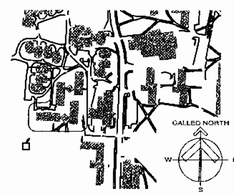
FAYERWEATHER & GORHAM BATHROOM RENOVATIONS
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

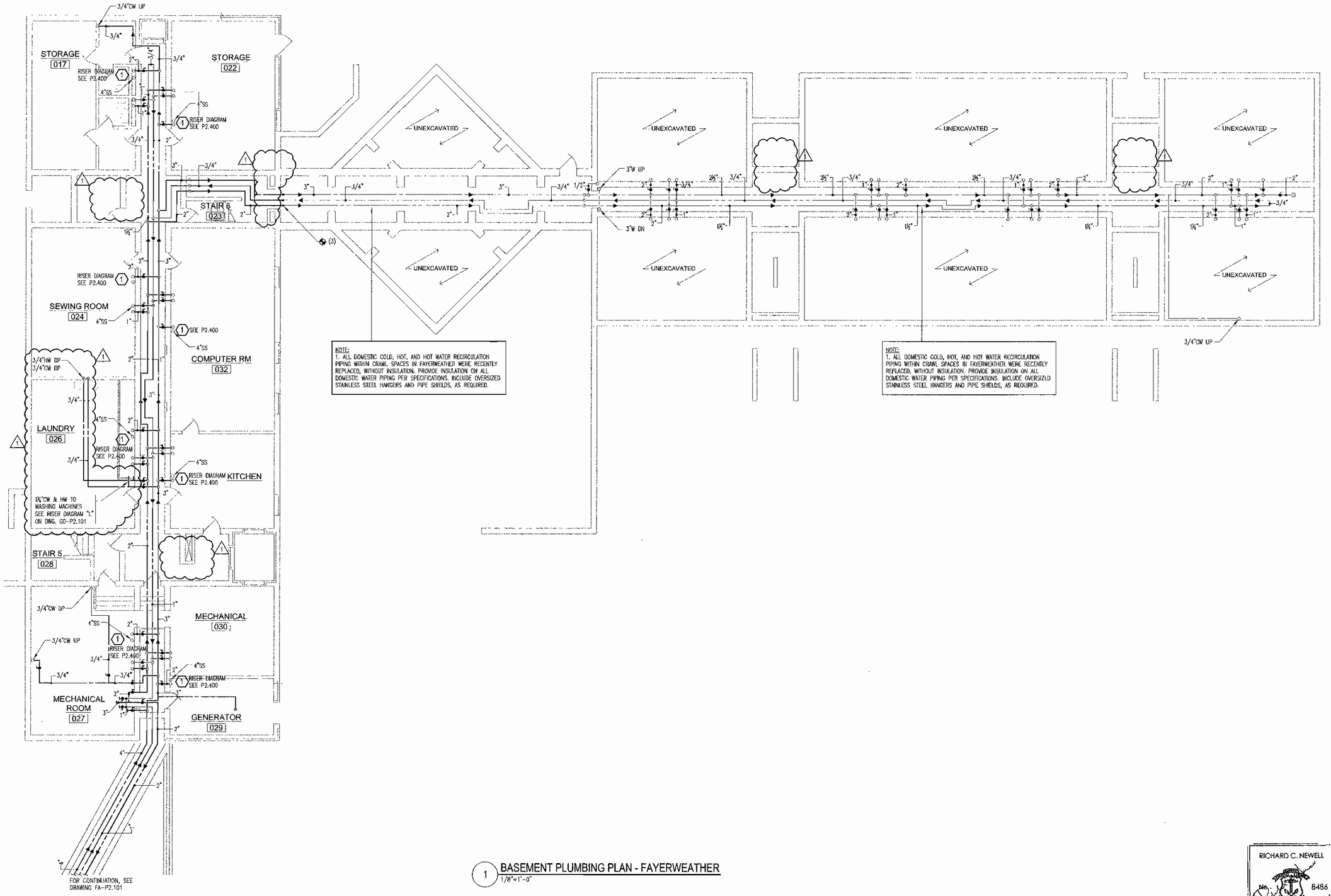
Revisions

No.	Date	Description
1	02/25/15	REVISION

Drawing Title
BASEMENT PLUMBING - GORHAM

Issue Date:	01/30/2015		
Project No.	UR120IN	Scale:	AS NOTED
Project Manager.	WA	Production Loader.	RCN
Project Architect.	MT	Peer Reviewer:	-

Drawing Number
GO-P2.101



1 BASEMENT PLUMBING PLAN - FAYERWEATHER
1/8"=1'-0"

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL
2-27-15

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Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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EAST PROVIDENCE, RI 02914
P: 401.434.7710 F: 401.438.7650
120 MAPLE STREET, SUITE 304
SPRINGFIELD, MA 01103
P: 413.310.042 F: 413.736.1284
WWW.CEC-ENGINEERING.COM

Owner
THE UNIVERSITY OF RHODE ISLAND
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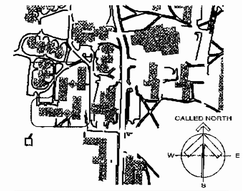

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Issues

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Revisions

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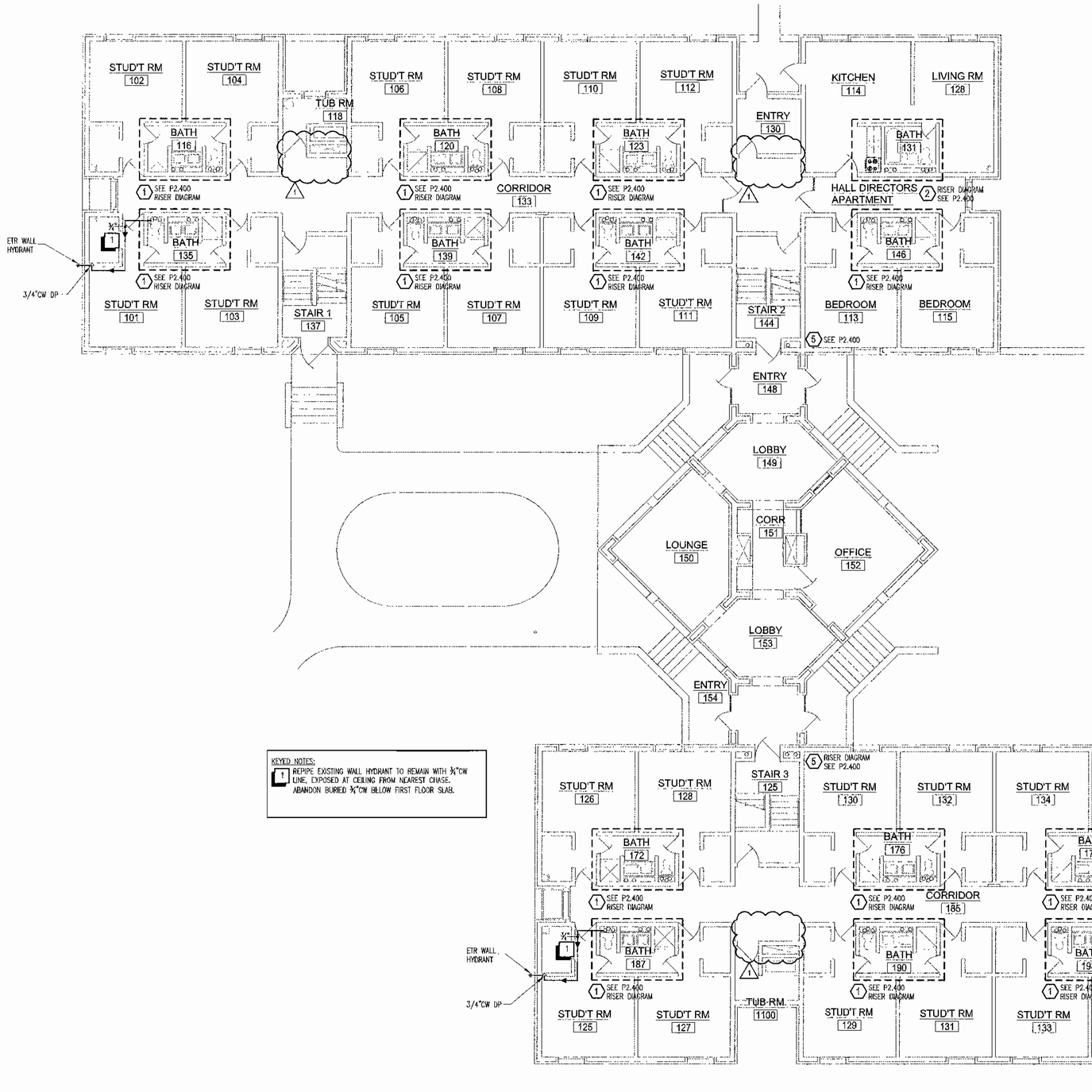
1	02/25/15	REVISON

Drawing Title
BASEMENT PLUMBING- FAYERWEATHER

Issue Date:	01/30/2015		
Project No.	UR120N	Scale:	AS NOTED
Project Manager:	WA	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer	

Drawing Number
FA-P2.102



1 TYPICAL FLOOR PLAN PLUMBING - GORHAM
1/8"=1'-0"

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

TectonArchitects

Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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120 MAPLE STREET, SUITE 204 SPRINGFIELD, MA 01103 P: 413.518.7500 F: 413.788.1994 WWW.CEC-ENGINEERING.COM

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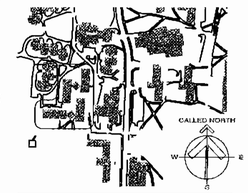

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Issues

Date	Description

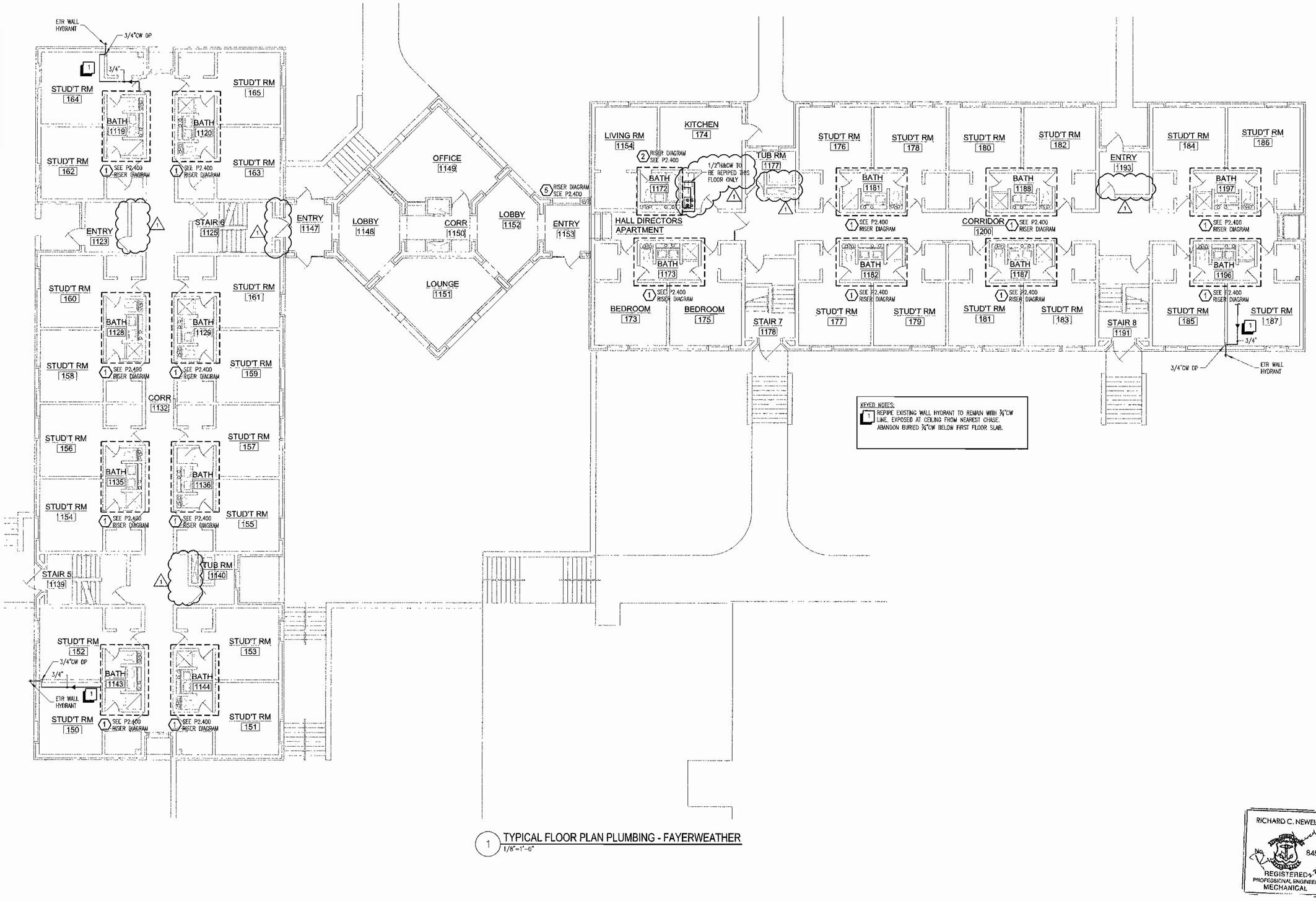
Revisions

No.	Date	Description
1	02/25/15	REVISION

Drawing Title
TYPICALFLOOR PLAN PLUMBING - GORHAM

Issue Date:	01/30/2015		
Project No.	URI20IN	Scale	AS NOTED
Project Manager:	WA	Production Leader:	RGN
Project Architect:	MT	Peer Reviewer:	

Drawing Number
GO-P2.103



KEYED NOTES:

1 REPIPE EXISTING WALL HYDRANT TO REMAIN WITH ¾"CW LINE, EXPOSED AT CEILING FROM NEAREST CHASE. ABANDON BURIED ¾"CW BELOW FIRST FLOOR SLAB.

1 TYPICAL FLOOR PLAN PLUMBING - FAYERWEATHER
1/8"=1'-0"

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

Tecton Architects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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EAST PROVIDENCE, RI 02914
P 401.438.7753 F 401.438.7620
100 MAPLE STREET, SUITE 904
SPRINGFIELD, MA 01103
P 413.619.7642 F 413.735.1294
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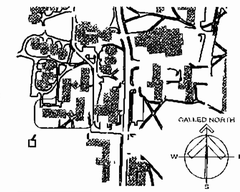


Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

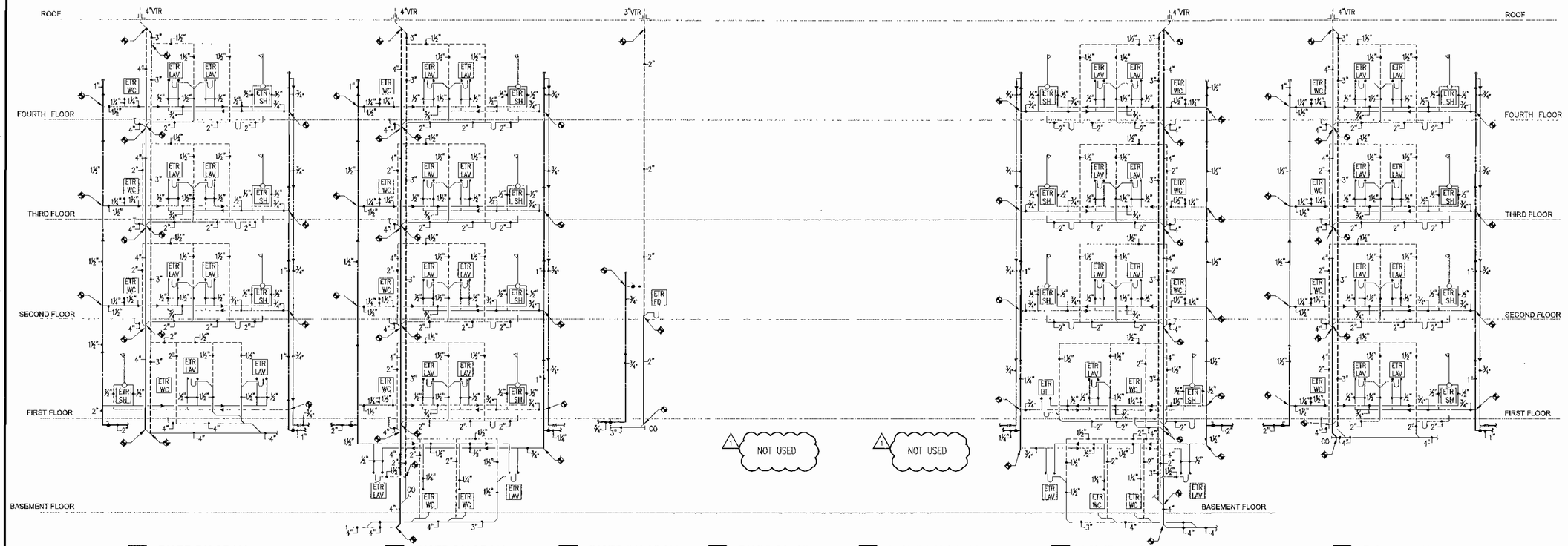
Revisions

No.	Date	Description
1	02/25/15	REVISION

Drawing Title
TYPICAL FLOOR PLAN PLUMBING - FAYERWEATHER

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager	WA	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer:	-

Drawing Number
FA-P2.104



7 RISER DIAGRAM — NO SCALE

6 RISER DIAGRAM — NO SCALE

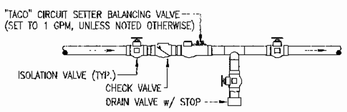
5 RISER DIAGRAM — NO SCALE

4 RISER DIAGRAM — NO SCALE

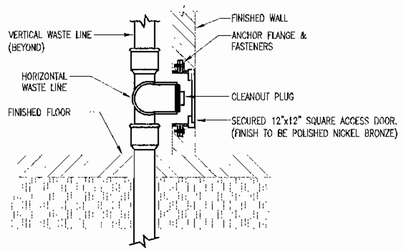
3 RISER DIAGRAM — NO SCALE

2 RISER DIAGRAM — NO SCALE

1 RISER DIAGRAM — NO SCALE



TYPICAL BALANCING VALVE STATION @ BASE OF EACH HWR RISER
NTS



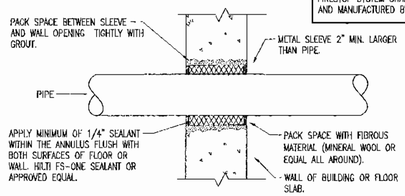
WALL CLEANOUT DETAIL
NTS

SHOCK ABSORBER SCHEDULE

SYMBOL	*J.R. SMITH #	FIXTURE UNITS	PIPE SIZE	REMARKS
A	5005	1-11	3/4"	PROVIDE ACCESS PANEL AS REQUIRED
B	5010	12-32	1"	PROVIDE ACCESS PANEL AS REQUIRED
C	5020	33-60	1"	PROVIDE ACCESS PANEL AS REQUIRED
D	5030	61-113	1"	PROVIDE ACCESS PANEL AS REQUIRED

*OR APPROVED EQUAL BY ZURN OR JOSAM

NOTE: PROVIDE SHOCK ABSORBERS AT ALL FIXTURES OR EQUIPMENT WHICH HAVE QUICK-CLOSING VALVES SUCH AS A FLUSH VALVE OR SOLENOID VALVE. PROVIDE SHOCK ABSORBERS WHERE AIR CHAMBERS ARE BEING REMOVED.



NOTE: FIRESTOP SYSTEM SHALL BE U.L. LISTED AND MANUFACTURED BY HILTI CO.

PIPING INSTALLATION NOTES:

1. FIRESTOP SYSTEMS ARE NOT REQUIRED FOR PENETRATIONS THROUGH WALLS WHICH DO NOT HAVE A FIRE RESISTANCE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS WHICH HAVE A FIRE-RESISTANCE RATING. ALL VOIDS IN AND AROUND PIPE SLEEVES IN NON-RATED WALLS SHALL BE FILLED WITH MINERAL WOOL TO PREVENT THE MOVEMENT OF SMOKE.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEARANCE AROUND ALL PIPING FOR SEISMIC PROTECTION AND PIPE SLEEVES WITH FIRESTOP MATERIALS.
3. PIPE SLEEVES SHALL HAVE A NOMINAL DIAMETER 2" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE FOR PIPE SIZES 1" THROUGH 3".
4. PIPE SLEEVES SHALL HAVE A NOMINAL DIAMETER 4" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE FOR PIPE SIZES 4" AND LARGER.
5. FLEXIBLE COUPLINGS ARE ACCEPTABLE ON EACH SIDE OF WALL. THE NOMINAL DIAMETER OF THE SLEEVE SHALL BE ONE PIPE SIZE LARGER THAN THE DIAMETER OF THE PIPE WHEN FLEXIBLE COUPLINGS ARE USED.
6. REFER TO SPECIFICATIONS FOR FIRESTOP MATERIALS TO BE USED. ALL SYSTEMS SHALL BE U.L. LISTED.
7. SLEEVES THROUGH LOAD BEARING WALLS SHALL BE SCHEDULE 40 BLACK STEEL PIPE. OTHER PIPE SLEEVE MATERIALS ARE ACCEPTABLE PROVIDED THEY HAVE BEEN TESTED AS PART OF THE FIRE RATED ASSEMBLY. ALL PIPE SLEEVES THROUGH EXTERIOR WALLS SHALL BE GALVANIZED STEEL.
8. INSTALL AIR RELEASE VALVES AT ALL HIGH POINTS IN PIPING SYSTEM AND DRAIN VALVES AT ALL LOW POINTS.
9. PLUMBING CONTRACTOR SHALL CONSIDER THE ELECTRICAL, MECHANICAL, STRUCTURAL, ARCHITECTURAL AND CIVIL DRAWINGS AS AN INTEGRAL PART OF HIS BID PACKAGE AND SHALL REVIEW ALL ASSOCIATED DRAWINGS AND DETAILS DURING THE BID PROCESS.

WALL PENETRATION DETAIL
NTS

PLUMBING LEGEND

SYMBOL	ABV.	DESCRIPTION
		LIGHT LINES INDICATE EXISTING PIPING
		HEAVY LINE INDICATE NEW PIPING
	S/W	SOIL/WASTE PIPE ABOVE FLOOR SLAB
	V	VENT PIPE ABOVE FLOOR SLAB
	CW	COLD WATER PIPE
	HW	HOT WATER PIPE
	HWR	HOT WATER RECIRCULATION PIPE
1		KEYED NOTED
1		RISER DESIGNATION
	SV	SHUTOFF VALVE
		BALANCING VALVE - SEE DETAIL
A	SA	SHOCK ABSORBER - SEE SCHEDULE
	AP	ACCESS PANEL
	CTE	CONNECT TO EXISTING
		UNION
		TEE OFF TOP
		TEE OFF BOTTOM
		DROP AND RUN
		DROP AND TURN
		TEE UP
		TEE DOWN
		PIPE CAP/PLUG
	UP	PIPE UP AND / OR RISE
	DP/DN	PIPE DROP / DOWN
	W&T	WASTE & TRAP
		PIPE CONTINUATION
	VTR	VENT THRU ROOF
	NTS	NOT TO SCALE
	VIF	VERIFY LOCATION, SIZE & DIRECTIONAL FLOW IN FIELD
	EC	ELECTRICAL CONTRACTOR
	GC	GENERAL CONTRACTOR
	CO	CLEANOUT
	WCO	WALL CLEANOUT
	TYP	TYPICAL
	ETR	EXISTING TO REMAIN
	RE	REMOVE EXISTING
	AFF	ABOVE FINISHED FLOOR
	WS	WASTE STACK
	SS	SOIL STACK

RICHARD C. NEWELL — No. 8486 — REGISTERED PROFESSIONAL ENGINEER MECHANICAL — 4-27-15

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130 MAPLE STREET, SUITE 304
SPRINGFIELD, MA 01105
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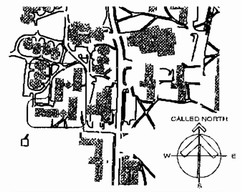
Project
University of Rhode Island
FAYERWEATHER & GORHAM
BATHROOM RENOVATIONS
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

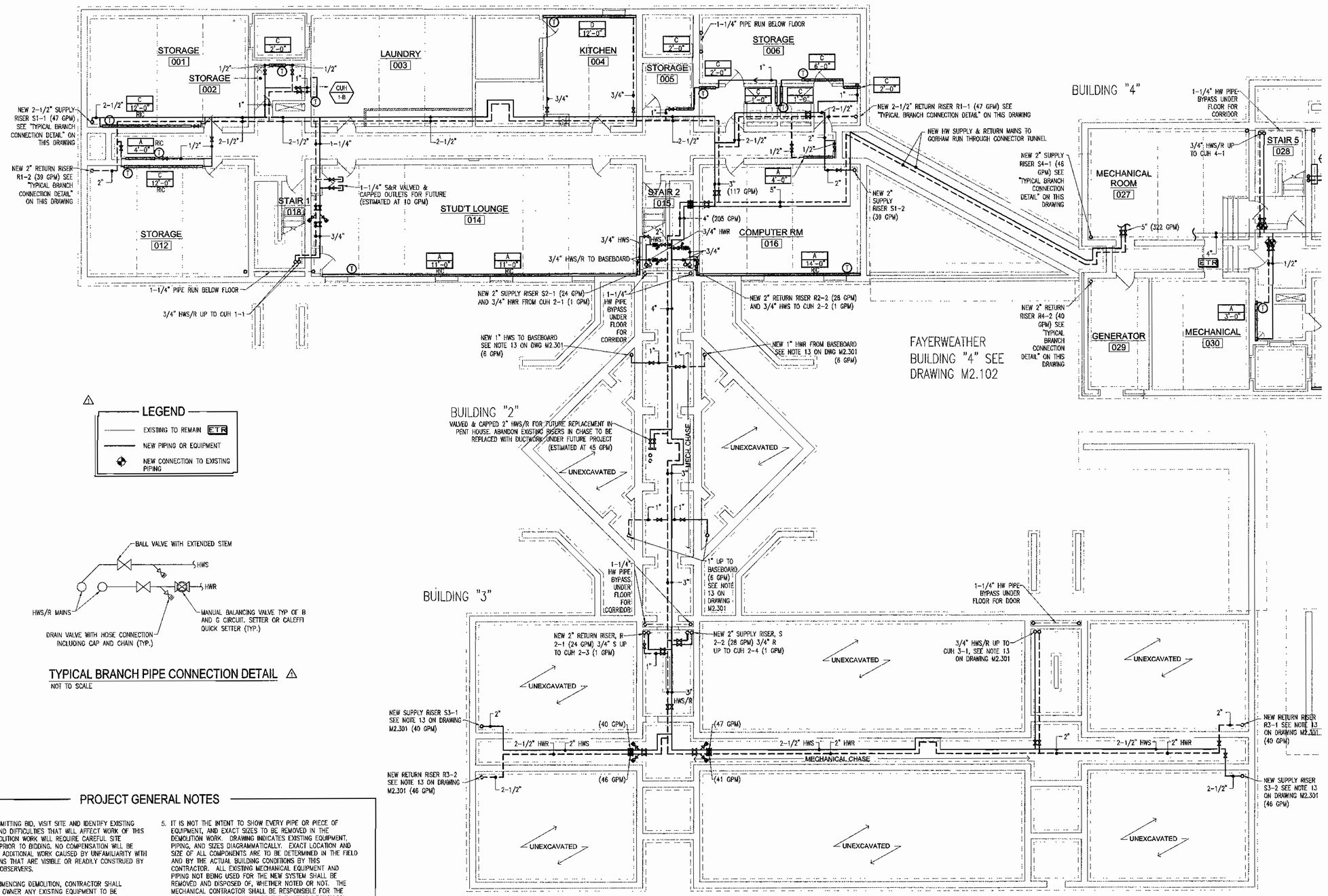
Revisions

No.	Date	Description
1	02/25/15	REVISION

Drawing Title
PLUMBING DETAILS AND RISERS GORHAM & FAYERWEATHER

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	WA	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer:	-

Drawing Number
P2.400



LEGEND

- EXISTING TO REMAIN (ETR)
- NEW PIPING OR EQUIPMENT
- NEW CONNECTION TO EXISTING PIPING

TYPICAL BRANCH PIPE CONNECTION DETAIL ⚠

NOT TO SCALE

PROJECT GENERAL NOTES

1. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. DEMOLITION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS.
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6. REFER TO THE FULL TEXT OF PROJECT NOTES ON DRAWING M2.301.

BASEMENT FLOOR PLAN - GORHAM HALL

1/8"=1'-0"

⚠ ENTIRE PLAN REVISED

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

TectonArchitects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
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130 MAPLE STREET, SUITE 304
SPRINGFIELD, MA 01103
P: 413.319.7542 F: 413.736.1284
WWW.CEC-ENGINEERING.COM

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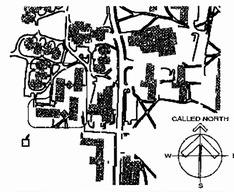
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

Revisions

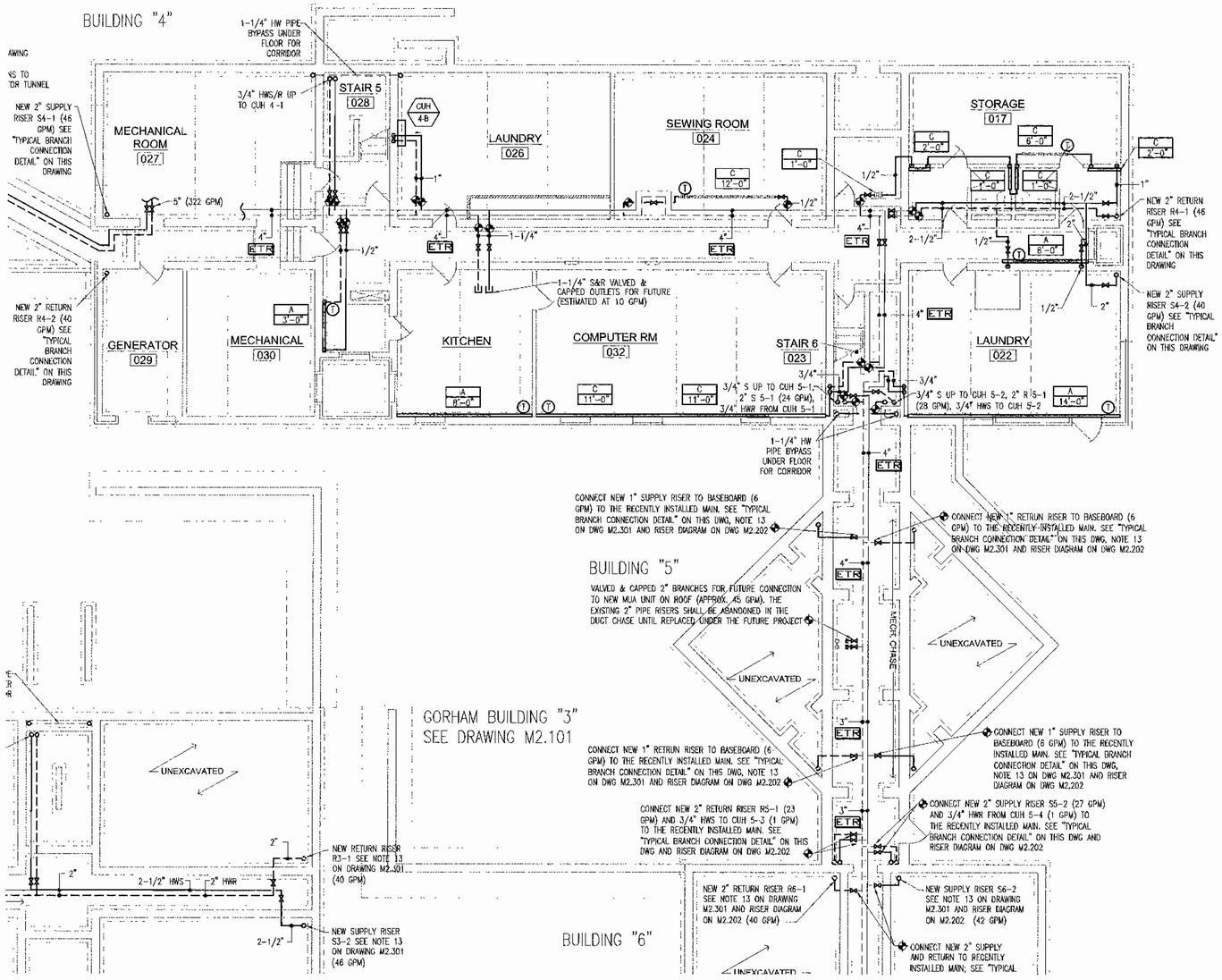
No.	Date	Description
⚠	02/25/15	BASEBOARD REVISION

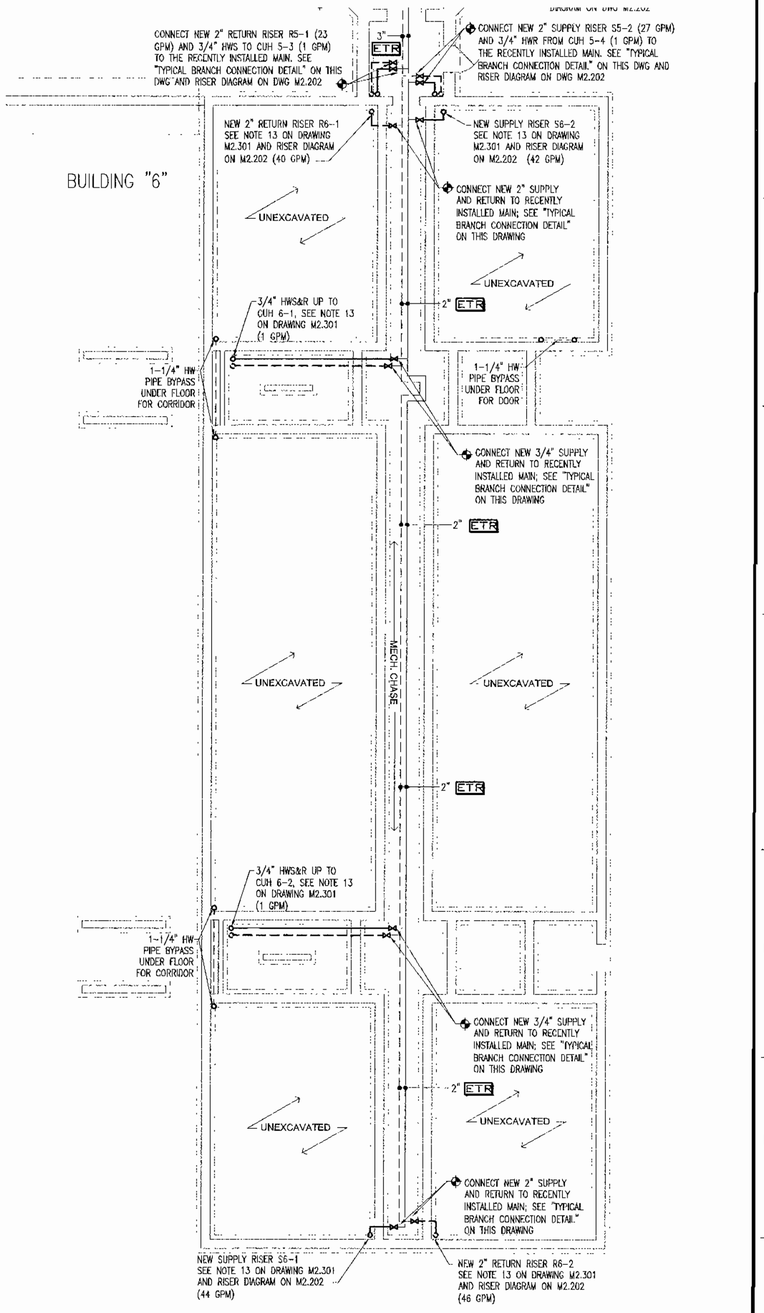
Drawing Title
BASEMENT PLAN MECHANICAL - CONSTRUCTION GORHAM HALL

Issue Date: 01/30/2015

Project No:	UR20IN	Scale:	AS NOTED
Project Manager:	JLR	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer:	

Drawing Number
GO.M2.101





BASEMENT FLOOR PLAN - FAYERWEATHER HALL

1/8"=1'-0"

⚠ ENTIRE PLAN REVISED

PROJECT GENERAL NOTES

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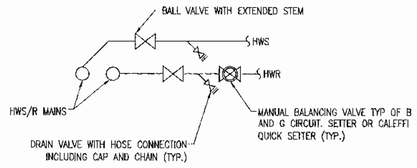
6. REFER TO THE FULL TEXT OF PROJECT NOTES ON DRAWING M2.301.



TYPICAL BRANCH PIPE CONNECTION DETAIL ⚠

NOT TO SCALE

⚠

LEGEND

- EXISTING TO REMAIN — ETR
- NEW PIPING OR EQUIPMENT
- NEW CONNECTION TO EXISTING PIPING

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

TectonArchitects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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160 MAPLE STREET, SUITE 204
SHEFFIELD, MA 01153
P: 413.218.7572 F: 413.238.1294
WWW.CEC-ENGINEERING.COM

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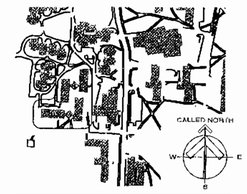
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

Revisions

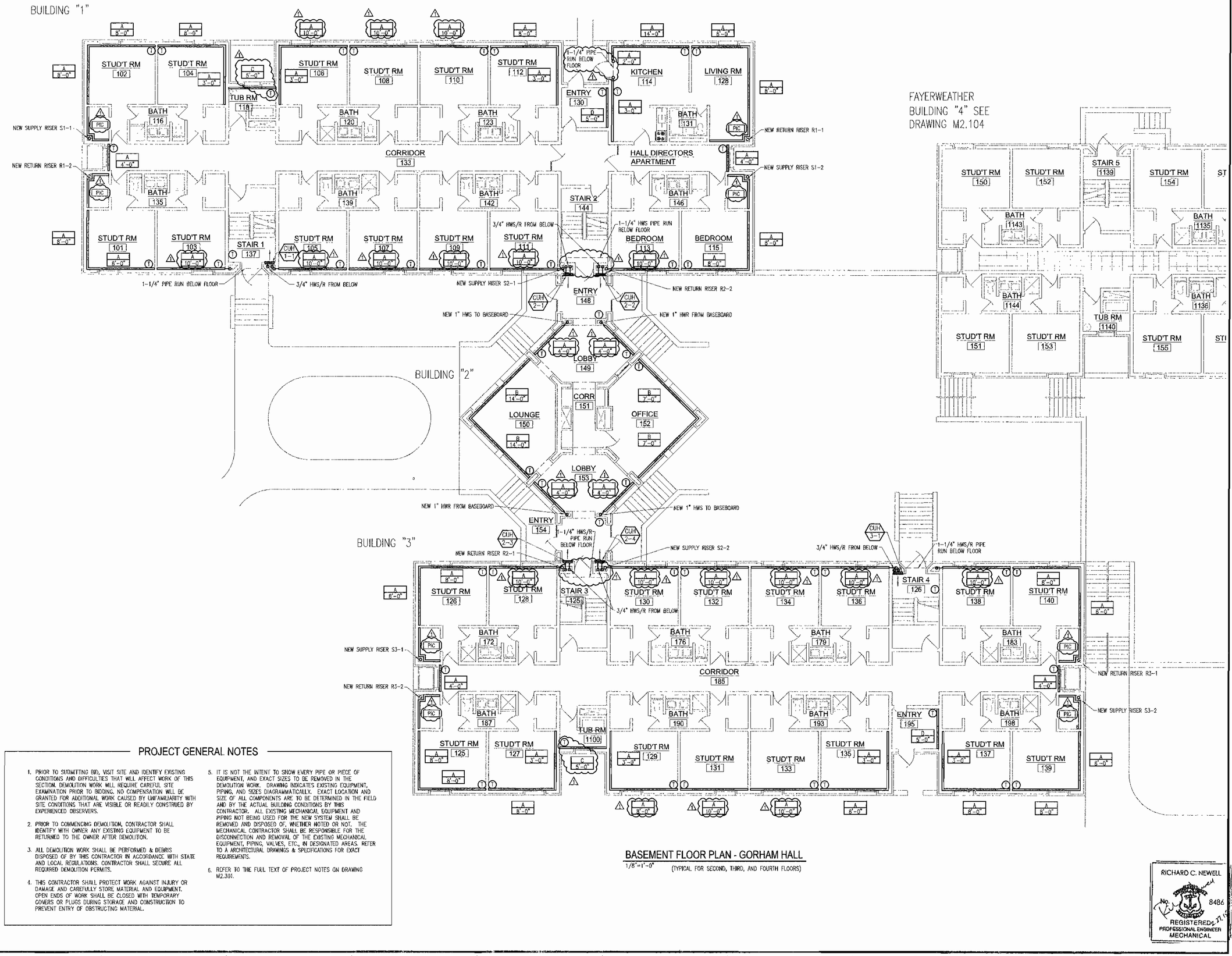
No.	Date	Description
⚠	02/25/15	BASEBOARD REVISON

Drawing Title
BASEMENT PLAN MECHANICAL - CONSTRUCTION FAYERWEATHER HALL

Issue Date: 01/30/2015

Project No.	URIZOIN	Scale:	AS NOTED
Project Manager:	JLR	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer:	

Drawing Number
FA.M2.102



BASEMENT FLOOR PLAN - GORHAM HALL

1/8"=1'-0" (TYPICAL FOR SECOND, THIRD, AND FOURTH FLOORS)

PROJECT GENERAL NOTES

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6. REFER TO THE FULL TEXT OF PROJECT NOTES ON DRAWING M2.301.

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

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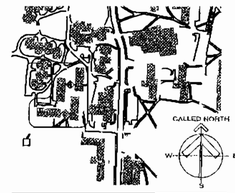
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

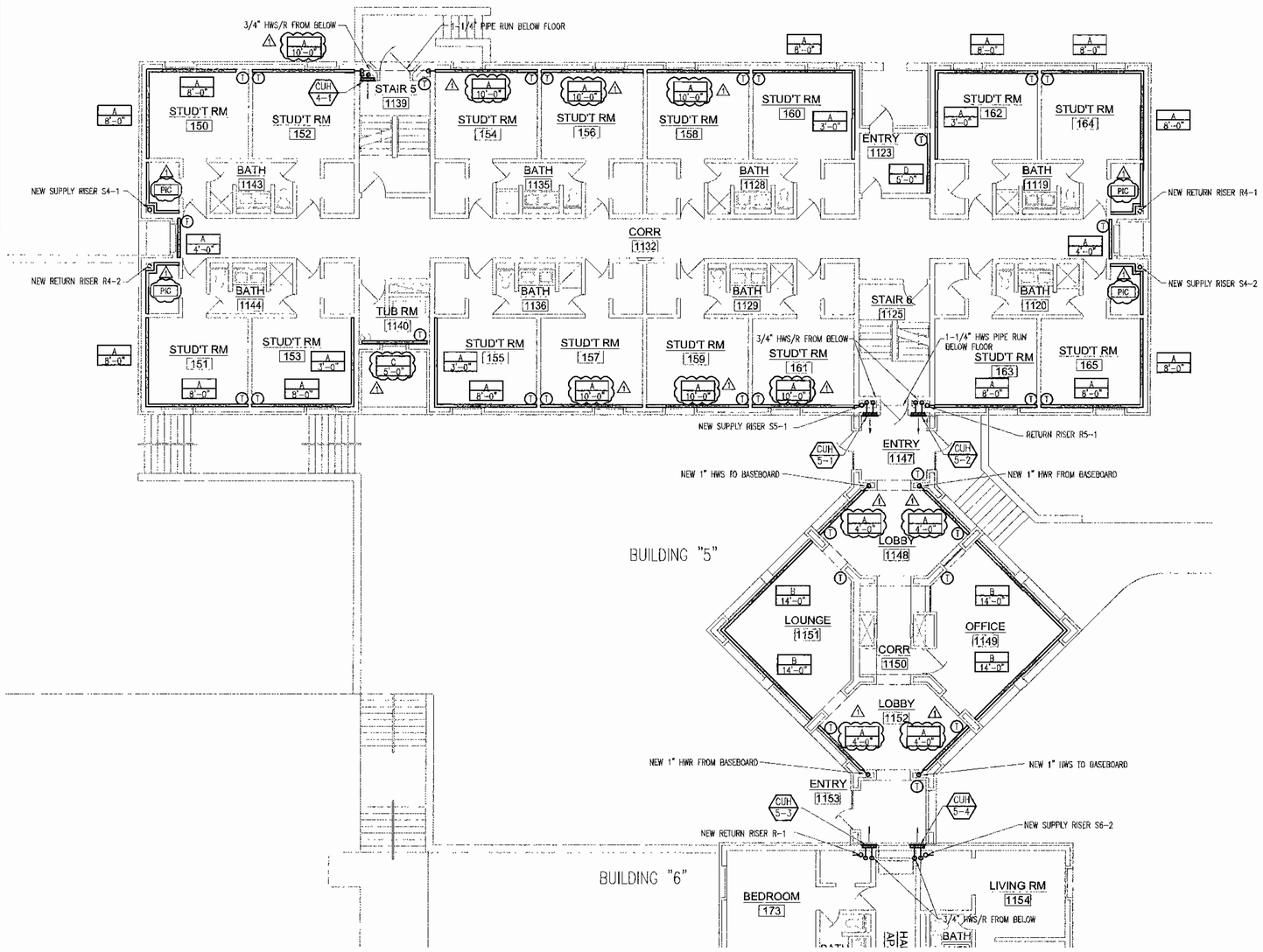
Revisions

No.	Date	Description
1	02/25/15	BASEBOARD REVISON

Drawing Title
TYPICAL FLOOR PLAN - MECHANICAL CONSTRUCTION GORHAM HALL

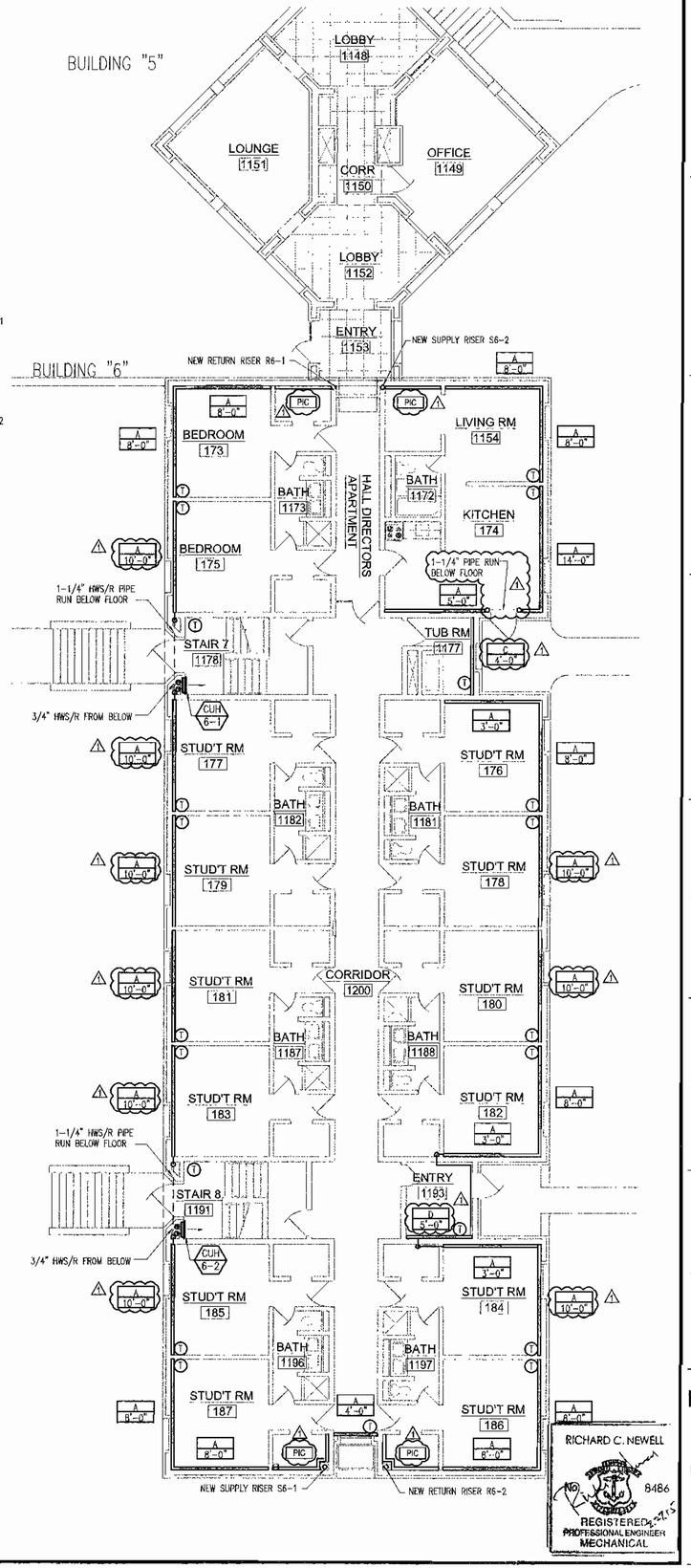
Issue Date:	01/30/2015		
Project No:	UR20IN	Scale:	AS NOTED
Project Manager:	JLR	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer:	

Drawing Number
GO.M2.103



FIRST FLOOR PLAN - FAYERWEATHER HALL

1/8"=1'-0" (TYPICAL FOR SECOND, THIRD, AND FOURTH FLOORS)



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120 MAIN P. STREET, SUITE 304
BRYNOHILL, MA 01420
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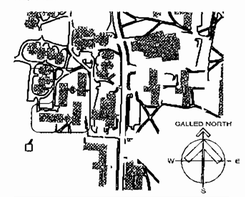
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

Revisions

No	Date	Description
1	06/25/15	BASEBOARD REVISON

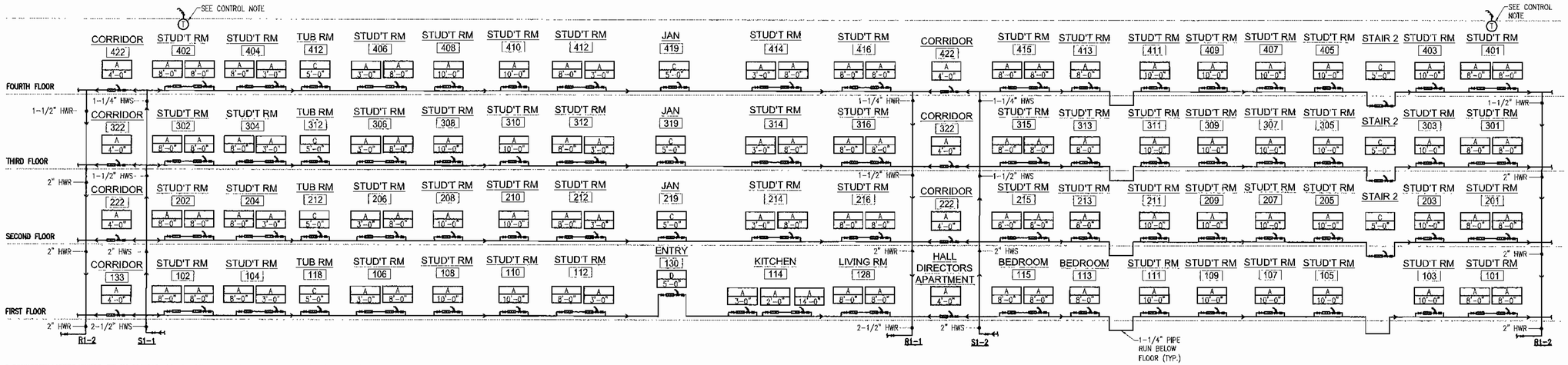
Drawing Title
TYPICAL FLOOR PLAN - MECHANICAL CONSTRUCTION FAYERWEATHER HALL

Issue Date: 01/30/2015

Project No:	UR20BN	Scale:	AS NOTED
Project Manager:	JLR	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer:	

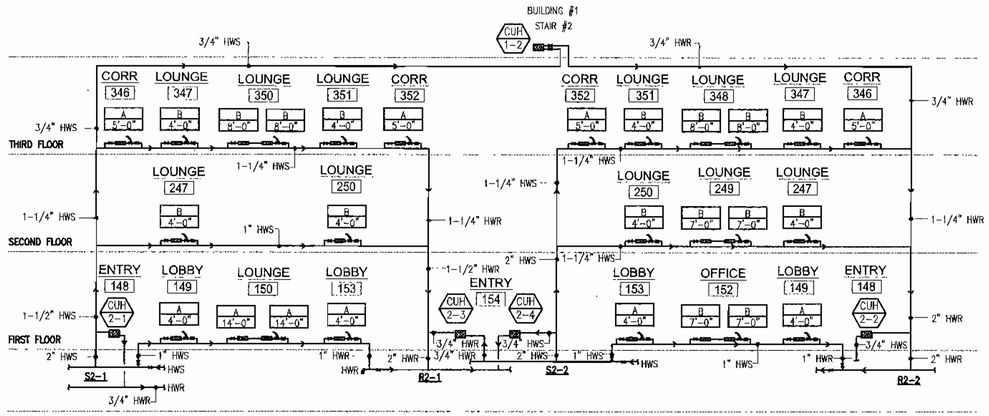
Drawing Number
FA.M2.104

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL



BUILDING #1 HEATING PIPE RISER DIAGRAM

NOT TO SCALE ⚠ ENTIRE PLAN REVISED

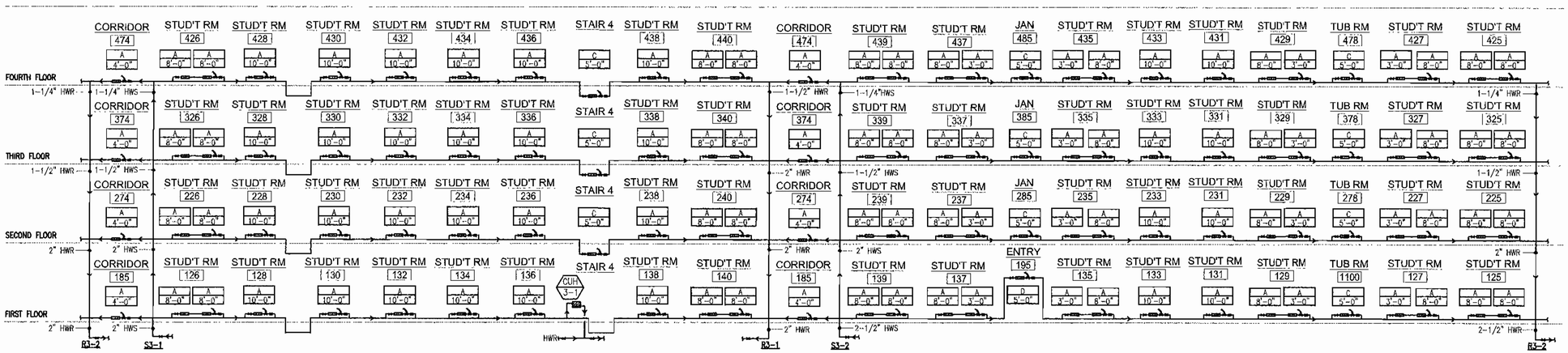


⚠ TEMPERATURE CONTROL NOTES

1. ALL NEW TEMPERATURE CONTROLS SHALL BE AN EXTENSION OF THE EXISTING ANDOVER BMS IN FAYERWEATHER. PROVIDE NEW COMPATIBLE I/O MODULE TO EXTEND SYSTEM IF REQUIRED.
2. THE EXISTING TEMPERATURE SENSORS IN ROOMS 401 & 402 (BLDG 1) AND 464 & 465 (BLDG 4) SHALL REMAIN AND BE REPROGRAMMED. THE SENSORS IN GORHAM BLDG 1 WILL BE AVERAGED, AND THE SENSORS IN FAYERWEATHER BLDG 4 WILL BE AVERAGED TO BE USED IN THE EXISTING PROGRAMMING TO DETERMINE THE HWS RESET TEMPERATURE (180 DEG F HWS @ OAT <25 DEG; 140 DEG F @ OAT <55 DEG).
3. THE PUMPS WILL BE ENABLED AT AN OAT OF 55 OR LESS.
4. PROVIDE TAMPER-PROOF THERMOSTATS FOR ALL OF THE NEW CABINET UNIT HEATERS (CUH) WITH NEW CONTROL VALVE IN EITHER THE HWR OR HWS PIPE (WHICHEVER IS THE DEDICATED CONNECTION OFF OF THE PIPE MAIN). CONTROL VALVE MUST BE ACCESSIBLE, SO IF LOCATED IN A CONCEALED SPACE A NEW ACCESS PANEL WILL BE REQUIRED (PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR).

BUILDING #2 HEATING PIPE RISER DIAGRAM

NOT TO SCALE ⚠ ENTIRE PLAN REVISED



BUILDING #3 HEATING PIPE RISER DIAGRAM

NOT TO SCALE ⚠ ENTIRE PLAN REVISED

RICHARD C. NEWELL
8486
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

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120 MAPLE STREET, SUITE 301
SPRINGFIELD, MA 01103
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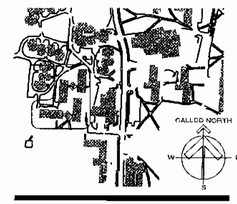
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

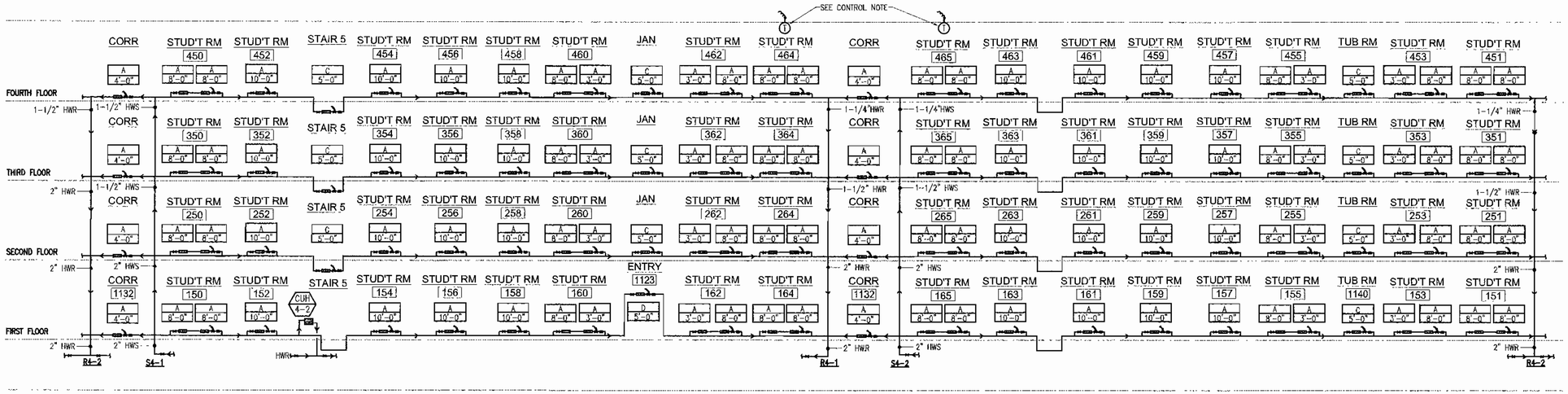
Revisions

No.	Date	Description
⚠	02/25/16	BASEBOARD REVISION

Drawing Title
MECHANICAL HEATING PIPE RISER DIAGRAM GORHAM HALL

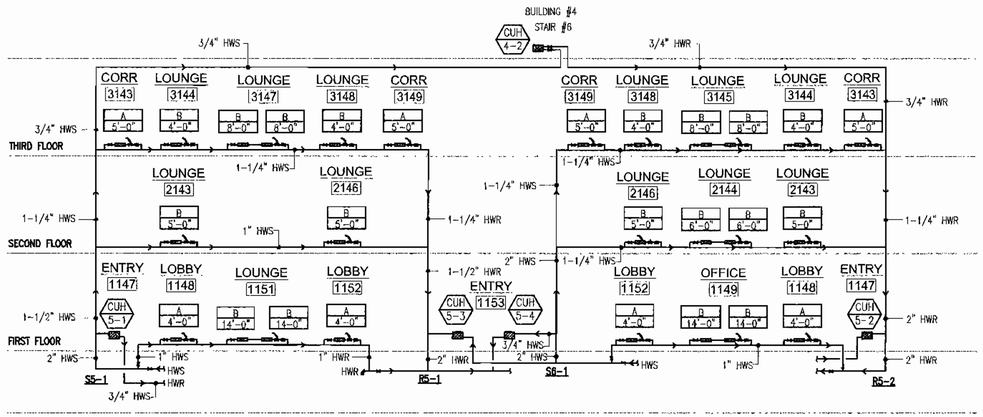
Issue Date:	01/30/2015		
Project No:	UR120IN	Scale	AS NOTED
Project Manager:	JLR	Proofreader Leader:	RCN
Project Architect:	MT	Peer Reviewer:	

Drawing Number
GO.M2.201



BUILDING #4 HEATING PIPE RISER DIAGRAM

NOT TO SCALE ⚠ ENTIRE PLAN REVISED

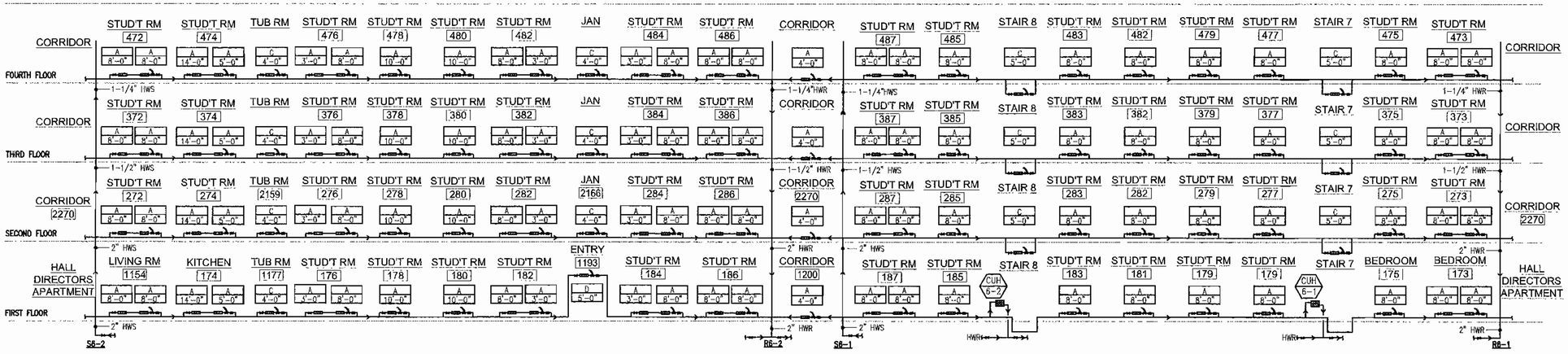


⚠ TEMPERATURE CONTROL NOTES

1. ALL NEW TEMPERATURE CONTROLS SHALL BE AN EXTENSION OF THE EXISTING ANDOVER BMS IN FAYERWEATHER. PROVIDE NEW COMPATIBLE I/O MODULE TO EXTEND SYSTEM IF REQUIRED.
2. THE EXISTING TEMPERATURE SENSORS IN ROOMS 401 & 402 (BLDG 1) AND 464 & 465 (BLDG 4) SHALL REMAIN AND BE REPROGRAMMED. THE SENSORS IN GORHAM BLDG 1 WILL BE AVERAGED, AND THE SENSORS IN FAYERWEATHER BLDG 4 WILL BE AVERAGED TO BE USED IN THE EXISTING PROGRAMMING TO DETERMINE THE HWS RESET TEMPERATURE (180 DEG F HWS @ OAT <25 DEG; 140 DEG F @ OAT <55 DEG).
3. THE PUMPS WILL BE ENABLED AT AN OAT OF 55 OR LESS.
4. PROVIDE TAMPER-PROOF THERMOSTATS FOR ALL OF THE NEW CABINET UNIT HEATERS (CUH) WITH NEW CONTROL VALVE IN EITHER THE HWR OR HWS PIPE (WHICHEVER IS THE DEDICATED CONNECTION OFF OF THE PIPE MAIN). CONTROL VALVE MUST BE ACCESSIBLE, SO IF LOCATED IN A CONCEALED SPACE A NEW ACCESS PANEL WILL BE REQUIRED (PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR).

BUILDING #5 HEATING PIPE RISER DIAGRAM

NOT TO SCALE ⚠ ENTIRE PLAN REVISED



BUILDING #6 HEATING PIPE RISER DIAGRAM

NOT TO SCALE ⚠ ENTIRE PLAN REVISED

RICHARD C. NEWELL — No. 8486 — REGISTERED PROFESSIONAL ENGINEER MECHANICAL — 01/30/15

TectonArchitects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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CREATIVE ENVIRONMENT CONSULTING ENGINEERS CORP
HVAC-ELECTRICAL-PLUMBING
• FIRE PROTECTION •
55 OFFICE PARKWAY
EAST PROVIDENCE, RI 02914
P: 401 438.7733 F: 401.438.7830
125 MAPLE STREET, SUITE 104
SPRINGFIELD, MA 01103
P 413.376.7345 F 413.736.7344
WWW.CEC-ENGINEERING.COM

Owner
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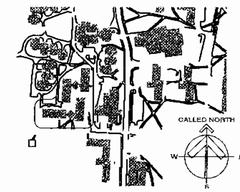
Project
University of Rhode Island
FAYERWEATHER & GORHAM BATHROOM RENOVATIONS
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

Revisions

No.	Date	Description
⚠	02/25/15	BASEBOARD REVISION

Drawing Title
MECHANICAL HEATING PIPE RISER DIAGRAM FAYERWEATHER HALL

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	JLR	Production Leader:	RCN
Project Architect:	MT	Peer Reviewer:	

Drawing Number
FA.M2.202

NOTES:

1. FIRESTOP SYSTEMS ARE NOT REQUIRED FOR PENETRATIONS THROUGH WALLS WHICH DO NOT HAVE A FIRE RESISTANCE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS WHICH HAVE A FIRE-- RESISTANCE RATING.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEARANCE AROUND ALL PIPING FOR SEISMIC PROTECTION AND PIPE SLEEVES WITH FIRESTOP MATERIALS.
3. PIPE SLEEVES SHALL HAVE A NOMINAL DIAMETER 2" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE FOR PIPE SIZES 1" THROUGH 3".
4. PIPE SLEEVES SHALL HAVE A NOMINAL DIAMETER 4" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE FOR PIPE SIZES 4" AND LARGER.
5. FLEXIBLE COUPLINGS ARE ACCEPTABLE ON EACH SIDE OF WALL. THE NOMINAL DIAMETER OF THE SLEEVE SHALL BE ONE PIPE SIZE LARGER THAN THE DIAMETER OF THE PIPE WHEN FLEXIBLE COUPLINGS ARE USED.
6. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRESTOP MATERIALS TO BE USED.

WALL PENETRATION DETAIL
NOT TO SCALE

PROJECT GENERAL NOTES

THE FOLLOWING IS A SUMMARY OF THE WORK TO BE PERFORMED BY THE MECHANICAL CONTRACTOR UNDER THIS CONTRACT.

1. COORDINATE ALL SHUTDOWNS WITH UNIVERSITY AND DO ALL WORK, ETC., UNDER UNIVERSITY'S APPROVED SCHEDULE, INCLUDING ANY REQUIREMENTS FOR OVERTIME.
2. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES AND STATE PLUMBING AND MECHANICAL CODES. THE CONTRACTOR SHALL ISSUE A PERFORMANCE BOND.
3. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. DEMOLITION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS.
4. ALL DEMOLITION WORK SHALL BE PERFORMED & DEBRIS DISPOSED OF BY THIS CONTRACTOR IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED DEMOLITION PERMITS.
5. THE INTENT OF THE PROJECT IS TO REPLACE ALL HEATING HOT WATER SUPPLY AND RETURN PIPING THAT WAS NOT REPLACED IN THE WORK COMPLETED IN AUGUST 2014. CONNECT NEW 5" HEATING HOT WATER SUPPLY AND RETURN SERVING GORHAM BLDGS. 1, 2, & 3 TO THE EXISTING MAINS JUST INSIDE THE MECHANICAL ROOM 027 IN BUILDING 4 OF FAYERWEATHER. CONNECT NEW HEATING HOT WATER SUPPLY AND RETURN MAINS AND BRANCH PIPING SERVING FAYERWEATHER BLDGS. 4, 5, & 6 FROM JUST OUTSIDE THE MECHANICAL ROOM 027 IN BUILDING 4 OF FAYERWEATHER.
6. ALL EXISTING ACCESSIBLE ORIGINAL HEATING SUPPLY AND RETURN PIPING (ANY PIPING THAT WAS NOT REPLACED IN AUGUST 2014), ASSOCIATED VALVES, INSULATION AND PIPE HANGERS SHALL BE DISCONNECTED, REMOVED, AND LEGALLY DISPOSED OF. EXISTING PIPING ENCASED IN CONCRETE OR INSTALLED IN UNEXCAVATED SPACES SHALL BE REMOVED FLUSH WITH WALLS OR FLOORS AND ABANDONED IN PLACE. ALL EXISTING PIPING ACCESSORIES INCLUDING, BUT NOT LIMITED TO, EXPANSION LOOPS, ANCHORS, GUIDES, HANGERS AND VALVES SHALL BE REPLACED IN THEIR ENTIRETY.
7. NEW BRANCH PIPE CONNECTIONS TO ALL NEW MAINS, AND THE RECENTLY INSTALLED MAINS IN FAYERWEATHER, SHALL ALL HAVE ISOLATION BALL VALVES AND DRAIN VALVES WITH HOSE CONNECTION FITTING.
8. SUPPORT ALL NEW PIPING FROM THE BUILDING STRUCTURE WITH STAINLESS STEEL RODS, OVERSIZED AND COPPERIZED CLEVIS HANGERS, STAINLESS STEEL CONCRETE INSERTS AND LAG BOLTS. SUPPORT PIPING TO PREVENT VIBRATION AND TO SECURE PIPING IN PLACE, AND ARRANGE SO AS TO PROVIDE FOR EXPANSION AND CONTRACTION, MATCHING THE EXISTING PIPING. PROVIDE APPROVED ANCHORS. HANGERS SHALL BE LARGE ENOUGH TO INCLUDE INSULATION THICKNESS ON WATER PIPING.
9. INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
   a. NPS 3/4 AND SMALLER: 60 INCHES WITH 3/8-INCH ROD.
   b. NPS 1 AND NPS 1-1/4: 72 INCHES WITH 3/8-INCH ROD.
   c. NPS 1-1/2 AND NPS 2: 96 INCHES WITH 3/8-INCH ROD.
   d. NPS 2-1/2: 108 INCHES WITH 1/2-INCH ROD.
   e. NPS 3 TO NPS 5: 10 FEET WITH 1/2-INCH ROD.
   f. ALL PIPING SHALL BE PROTECTED FROM DISSIMILAR MATERIALS.
10. INSULATE ALL HEATING PIPE, VALVES AND FITTINGS, ETC. HEATING SUPPLY AND RETURN PIPING 1-1/2" AND LESS SHALL BE INSULATED WITH 1-1/2" THICK INSULATION; HEATING PIPING 2" AND LARGER HAVING 2" THICK INSULATION, PER CURRENT ENERGY CODE.
11. PROVIDE INSULATION PROTECTION SHIELDS: STAINLESS STEEL 20 GAUGE BY 10" LONG FOR ALL INSULATED PIPING. HANGER SHALL BE INSTALLED OUTSIDE THE INSULATION SIZED TO SUIT PIPE SIZE AND INSULATION THICKNESS AND NOT BE IN CONTACT WITH COPPER PIPE.
12. PROVIDE TYPE M COPPER HEATING PIPING MAINS IN THE CRAWL SPACE AND AT THE POINT OF RECONNECTION WITHIN THE CHASES IN THE FIRST FLOOR. COPPER SHALL BE JOINED WITH MECHANICAL PRESSURE-SEAL-JOINT FITTINGS.
   a. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
      1.) ELKHART PRODUCTS CORPORATION; INDUSTRIAL DIVISION.
      2.) NIBCO INC.
      3.) VIEGA PRO-PRESS PLUMBING AND HEATING SYSTEMS.
   b. NPS 2" AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM-RUBBER O-RING SEAL IN EACH END.
   c. NPS 2-1/2 TO NPS 4: CAST-BRONZE OR WROUGHT-COPPER FITTING WITH EPDM-RUBBER O-RING SEAL IN EACH END.
13. PROVIDE HEAT PEX WHERE NEW PIPING IS INSTALLED BELOW THE CONCRETE FLOOR SLAB. PEX SHALL BE ASTM F 877, SDR 9 TUBING AND SHALL BE INSTALLED AS ONE CONTINUOUS LENGTH WITH NO FITTINGS. PRESSURE TEST PRIOR TO CONCRETE RESTORATION.
14. ALL PIPING, DUCTS AND EQUIPMENT SHALL BE THOROUGHLY FLUSHED AND CLEANED OF FOREIGN MATTER AFTER BEING PLACED IN OPERATION. SYSTEM SHALL BE DISCONNECTED, CLEANED AND RECONNECTED WHEREVER NECESSARY TO LOCATE AND REMOVE OBSTRUCTIONS. REPLACE STRAINERS AT ALL CIRCULATOR PUMPS. ANY WORK DAMAGED IN COURSE OF REMOVING OBSTRUCTIONS SHALL BE REPAIRED OR REPLACED WHEN SYSTEM IS RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.
15. ESCUTCHEONS FOR PIPES PASSING THROUGH FLOORS SHALL BE SPLIT HINGED, CAST BRASS CHROME-PLATE TYPE SIZED TO FIT PIPE AND INSULATION COVER SLEEVE PROJECTION THROUGH FLOOR AND CEILING. ON OTHER END. RITTER PATTERN, CASTING CO., #3A., BEATON & CORBIN AND/OR CALDWELL PRODUCTS WILL BE ACCEPTABLE.
16. ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN. ALL WORK, MATERIALS, ETC. IS TO BE IN ACCORDANCE WITH STATE ELECTRICAL CODE REQUIREMENTS.
14. FIRE-STOPPING AT PIPE PENETRATIONS IS UNDER THE WORK BY THE G.C.
15. CUTTING AND PATCHING OF THE CONCRETE FLOORS AND WALLS TO ACCESS PIPE LOCATIONS IS BY THE G.C.

⚠1 16. PROJECT CLOSE-OUT: REFILL SYSTEM WATER, TEST AND ADJUST SYSTEM CHEMICALS TO MAINTAIN TREATMENT LEVELS, CLEAN PUMP STRAINERS, BLEED AIR, SET GPM FLOW THROUGH EACH SECTION, VERIFY OPERATION OF ZONE VALVES, PROVIDE WARRANTY INFORMATION TO A/E FOR BASEBOARD AND VALVES. THE EXISTING PUMP SHALL BE REBALANCED TO SUPPLY 576 GPM. ENSURE THAT THERE IS ADEQUATE FLOW AT THE FURTHEST ELEMENTS AND ADJUST AS NECESSARY. THE 576 GPM FLOW DOES NOT INCLUDE FOUR FUTURE CAPPED/VALVED CONNECTIONS (TWO @ 45 GPM AND TWO @ 10 GPM).

17. REMOVE ALL EXHAUST REGISTERS AT BATHROOMS, SECURE THE SERVICES OF A DUCT-CLEANING CONTRACTOR TO CLEAN THE EXHAUST DUCTWORK UP TO AND INCLUDING THE INTERIOR AND BLADES OF THE ROOF EXHAUST FANS. ADJUST DAMPERS TO CONFIRM AIRFLOW AT EACH REGISTER.
   a. CLEAN AND REINSTALL EXHAUST REGISTERS. NOTIFY THE A/E OF REGISTERS FOUND TO BE TOO DAMAGED OR RUSTED TO BE REINSTALLED; APPROVED REPLACEMENTS WILL BE COMPLETED UNDER THE BASE-BID EXHAUST REPAIR ALLOWANCE WITH NEW TYPICAL OF PRICE MODEL 635-DAL ALUMINUM, PAINTED WHITE.
   b. NOTIFY THE A/E OF ANY DUCTWORK FOUND TO BE DISCONNECTED, BROKEN, OR LEAKING. APPROVED REPAIRS WILL BE COMPLETED UNDER THE BASE-BID EXHAUST REPAIR ALLOWANCE.
   c. NOTIFY THE A/E OF ANY EXHAUST FANS NOT OPERATING OR IN NEED OF REPAIR. APPROVED REPAIRS WILL BE COMPLETED UNDER THE BASE-BID EXHAUST REPAIR ALLOWANCE.

CUH CABINET UNIT HEATER SCHEDULE

TAG NO.	ARRANGEMENT	LOCATION	CFM	WATER SIDE DATA: MBH	ROWS	GPM	% GLYCOL	EWT (°F)	LWT (°F)	WPD (FT H20)	ELECTRICAL DATA: FLA	HP	V	PH	HZ	MANUFACTURERS MODEL NUMBER	REMARKS
CUH-1-B	PEDESTAL FLOOR MOUNT SLOPE TOP	BSMT LAUNDRY 003	675	64.0	2	6.0	N/A	180	155	2.3	2.2	0.1/.07	115	1	60	AIRTHERM FS-08	SEE NOTE BELOW
CUH-1-1	RECESSED WALL UNIT	STAIR #1	100	8.9	--	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-1-2	RECESSED WALL UNIT	STAIR #2 ROOF EXIT	100	8.9	--	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-2-1	RECESSED WALL UNIT	VESTIBULE 148	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-2-2	RECESSED WALL UNIT	VESTIBULE 148	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-2-3	RECESSED WALL UNIT	VESTIBULE 154	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-2-4	RECESSED WALL UNIT	VESTIBULE 154	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-3-1	RECESSED WALL UNIT	STAIR #4	100	8.9	--	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-4-B	PEDESTAL FLOOR MOUNT SLOPE TOP	BSMT LAUNDRY 026	675	64.0	2	6.0	N/A	180	155	2.3	2.2	0.1/.07	115	1	60	AIRTHERM FS-08	SEE NOTE BELOW
CUH-4-1	RECESSED WALL UNIT	STAIR #5	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-4-2	RECESSED WALL UNIT	STAIR #6 ROOF EXIT	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-5-1	RECESSED WALL UNIT	VESTIBULE 1147	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-5-2	RECESSED WALL UNIT	VESTIBULE 1147	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-5-3	RECESSED WALL UNIT	VESTIBULE 1152	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-5-4	RECESSED WALL UNIT	VESTIBULE 1152	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-6-1	RECESSED WALL UNIT	STAIR #7	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW
CUH-6-2	RECESSED WALL UNIT	STAIR #8	100	8.9	-	1.0	N/A	180	160	0.11	.5	.034	115	1	60	EMBASSY INDUSTRIES HAV-88-3	SEE NOTE BELOW

REMARKS (TYPICAL FOR EMBASSY UNITS): WITH 18 GA FRONT COVER, ALL EXPOSED SCREWS SHALL BE SS TAMPER RESISTANT, WITH STARTER/DISCONNECT INSIDE COVER
REMARKS (TYPICAL FOR AIRTHERM UNITS): WITH 18 GA CABINET/16 GA FRONT COVER, WASHABLE FILTERS, ALL EXPOSED SCREWS SHALL BE SS TAMPER RESISTANT, WITH STARTER/DISCONNECT INSIDE COVER, AND VALVES INSIDE COVER

TYPICAL WALL FINNED RADIATION PIPING DETAIL
NOT TO SCALE

NOTES

1. VALVES SHALL BE INSTALLED IN A MANNER WERE ALL PORTS, LEVERS, DRAIN CONNECTION, AND ANY COMPONENTS OF VALVES AND FAN COIL UNIT IS EASILY ACCESSIBLE.
2. PROVIDE FULL FLOW TO THE COIL AT <35 DEGREES OAT; CYCLE FAN ON CALL FOR HEAT.
3. CONTRACTOR TO VERIFY COIL CONNECTIONS WITH MANUFACTURER PRIOR TO PIPING COIL.
4. ARRANGE ALL PIPING TO PERMIT COIL REMOVAL BY ONLY REMOVING UNIONS AT COILS.

TYPICAL CABINET UNIT HEATER HOT WATER COIL PIPING DETAIL
NOT TO SCALE

FIN-TUBE RADIATION SCHEDULE

A-B-C DESIGNATION / LENGTH LENGTH OF FIN — RIC = RETURN IN COVER, PIC = PIPE IN COVER

TAG NO.	BTU PER FT	AWT (°F)	GPM	TUBE SIZE (IN)	PIPE MTRL	FIN SIZE	FINS PER FOOT	COVER GA	ROWS	MANUFACTURER MODEL NUMBER	REMARKS
A	775	170°	1	3/4"	CU	AL	50	14	1	STERLING GSBF-12P	1,2,3,4,5,6,8,9
B	880	170°	4	1"	CU	AL	50	14	1	STERLING GSBF-12P	1,2,3,4,5,6,8,9
C	690	170°	1	3/4"	CU	AL	40	14	1	STERLING GSBF-12P	1,2,3,4,5,6,8,9
D	1550	170°	3	3/4"	CU	AL	50	14	2	STERLING JVBS-20	1,2,3,4,6,7,8,9

NOTES:

1. CONTRACTOR SHALL VERIFY FIELD DIMENSIONS PRIOR TO ORDERING EQUIPMENT
2. PROVIDE ALL REQUIRED TRIMS, END CAP, CENTER TRIMS & REQUIRED CUSTOM TRIMS TO FACILITATE A FINISH INSTALLED APPEARANCE.
3. COVER SHALL RUN CONTINUOUS WALL TO WALL WITH A SEPARATE 2'-0" COVER SECTION OVER THE LENGTH OF PIPE WHERE VALVES ARE INSTALLED IN ORDER TO PERMIT ACCESS VIA REMOVAL OF ONLY SECTIONS OF THE COVER.
4. FIELD SUPPLIED LAG BOLTS SHALL BE SUITABLE FOR MOUNTING TO THE INSTALLATION SURFACE (MASONRY, STUD WALL) SPACED AT 16" O.C. STAINLESS STEEL TAMPER-PROOF SCREWS SHALL BE USED TO ATTACH TRIM PIECES.
5. 14 GA CRS COVER, TRIM, AND PARTIAL BACKPLATE. INSTALL 4" ABOVE FINISHED FLOOR.
6. PROVIDE CUSTOM COLOR SELECTED BY ARCHITECT
7. INSTALL IN INVERTED POSITION AS TIGHT TO CEILING AS POSSIBLE.
8. REFER TO MANUFACTURER'S PIPING AND MOUNTING DETAILS PRIOR TO ORDERING UNITS
9. PROVIDE BLANK BASEBOARD COVER ("PIC") TO CONCEAL HORIZONTAL PIPE RUNS IN FINISHED SPACES. ⚠1

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8"	6" - 8"	3/4"
2-1/2" - 3"	1/2"	8" - 10"	7/8"
4" - 5"	5/8"	12" - 14"	1"

PIPE HANGER DETAIL
NTS

RICHARD C. NEWELL
No. 8486
REGISTERED PROFESSIONAL ENGINEER MECHANICAL
2.27.15

Tecton Architects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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Consultant CEC# 20150001
CREATIVE ENVIRONMENT CORP. - CONSULTING ENGINEERS
HVAC·ELECTRICAL·PLUMBING ·FIRE PROTECTION·
50 OFFICE PARKWAY EAST PROVIDENCE, RI 02914 P 401.438.7733 F 401.438.7620
120 MAPLE STREET, SUITE 304 SPRINGFIELD, MA 01103 P. 413.519.7842 F. 413.736.1294
WWW.CEC-ENGINEERING.COM

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THINK BIG WE DO

Project
University of Rhode Island
FAYERWEATHER & GORHAM BATHROOM RENOVATIONS
KINGSTON, RI

Key Plan

Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

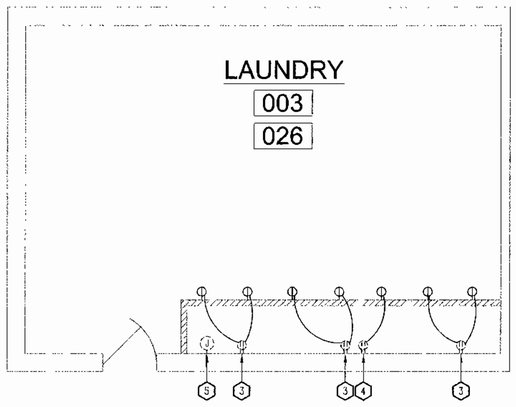
Revisions

No	Date	Description
⚠1	02/25/15	BASEBOARD REVISON

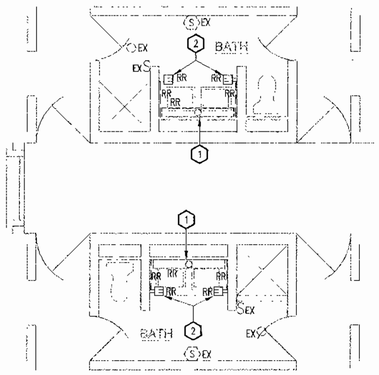
Drawing Title
MECHANICAL DETAILS AND SCHEDULES FAYERWEATHER AND GORHAM HALLS

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	JLR	Production Leader:	RON
Project Architect:	MT	Peer Reviewer:	

Drawing Number
M2.301



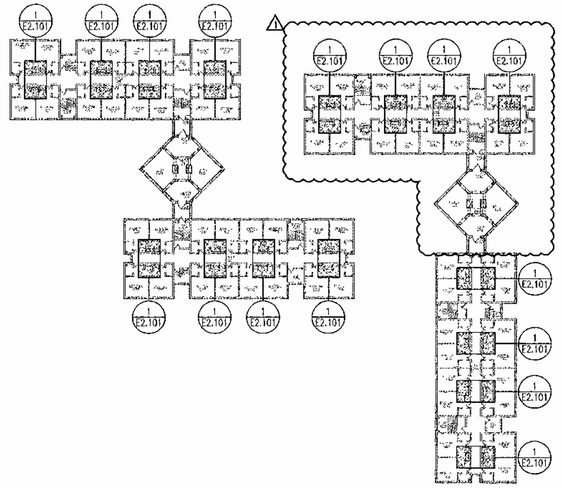
2 E2.101 TYPICAL LAUNDRY ROOM ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



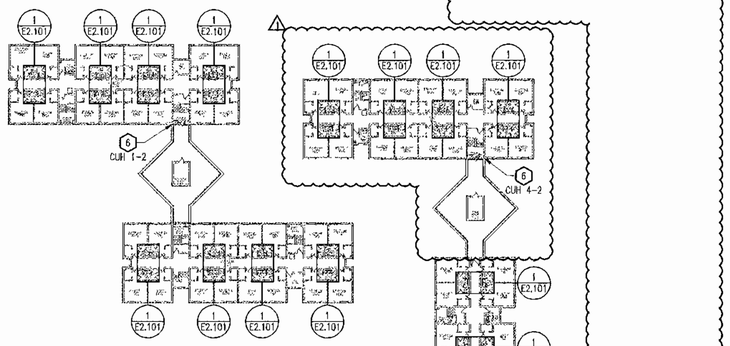
1 E2.101 TYPICAL PARTIAL BATHROOM PLAN
SCALE: 1/4" = 1'-0"

SHEET NOTES:

1. EC SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE OFF OF WALL AND REINSTALL ONCE NEW WALL COVERING IS PROVIDED.
2. EC SHALL REMOVE EXISTING GFI RECEPTACLE, SURFACE MOUNTED WIREMOLD BOX, AND SURFACE MOUNTED 500 SERIES WIREMOLD, AND REINSTALL ONCE NEW WALL COVERING IS PROVIDED.
3. EXISTING (2) 20 AMP, 120 VOLT CIRCUITS, SERVING EXISTING DUPLEX RECEPTACLE. EC SHALL REMOVE EXISTING MULBERRY RECEPTACLE COVERPLATE, DUPLEX RECEPTACLE, AND WIRING OFF OF THE RECEPTACLE. PROVIDE NEW (2)#12 & (1)#12G, IN 1/2"C, FROM EXISTING OUTLET BOX, TO EACH NEW SINGLE RECEPTACLE. TERMINATE NEW WIRING TO EXISTING WIRING IN EXISTING OUTLET BOX, WHERE AS ONE CIRCUIT SERVES ONE NEW SINGLE RECEPTACLE. EC SHALL PROVIDE ONE NEW BLANK COVERPLATE ON EXISTING SURFACE MOUNTED OUTLET BOX. PROVIDE ALL NECESSARY HARDWARE AND ALL FINAL TERMINATIONS.
4. EXISTING 20 AMP, 120 VOLT CIRCUIT, SERVING EXISTING DUPLEX RECEPTACLE. EC SHALL REMOVE EXISTING MULBERRY RECEPTACLE COVERPLATE, DUPLEX RECEPTACLE, AND WIRING OFF OF THE RECEPTACLE. PROVIDE NEW (2)#12 & (1)#12G, IN 1/2"C, FROM EXISTING OUTLET BOX TO NEW SINGLE RECEPTACLE. TERMINATE NEW WIRING TO EXISTING WIRING IN EXISTING OUTLET BOX. EC SHALL PROVIDE ONE NEW BLANK COVERPLATE ON EXISTING SURFACE MOUNTED OUTLET BOX. PROVIDE ALL NECESSARY HARDWARE AND ALL FINAL TERMINATIONS.
5. EC SHALL REMOVE EXISTING 3/8" GREENFIELD WHIP, WITH (1) CAT 5 CABLE, FROM EXISTING WASHING MACHINE TO THE EXISTING JUNCTION BOX. RECONNECT TO THE EXISTING WASHER ONCE EXISTING WASHER IS RELOCATED.
6. EC SHALL DISCONNECT AND MAKE SAFE EXISTING POWER WIRING SERVING MECHANICAL CABINET UNIT HEATER. RECONNECT POWER TO NEW HEATER WITH NEW DISCONNECT (SUPPLIED BY MECHANICAL CONTRACTOR, INSTALL AND WIRED BY EC)



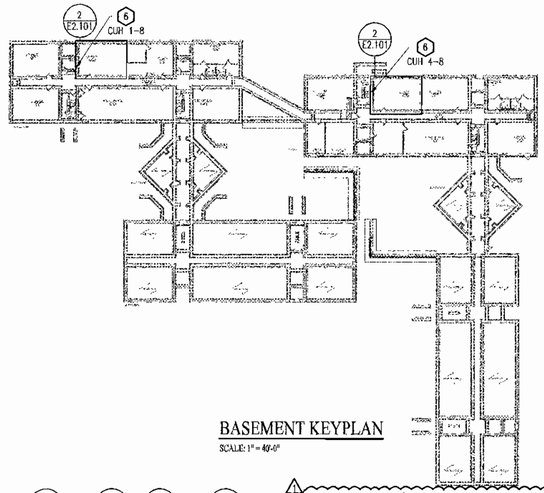
THIRD FLOOR KEYPLAN
SCALE: 1" = 40'-0"



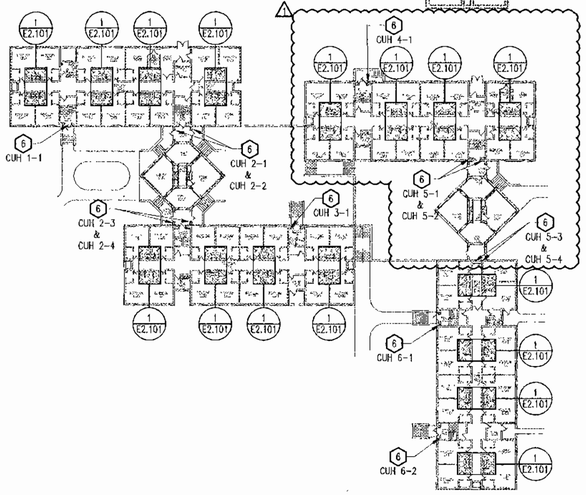
FOURTH FLOOR KEYPLAN
SCALE: 1" = 40'-0"

ELECTRICAL DEMOLITION ABBREVIATIONS:

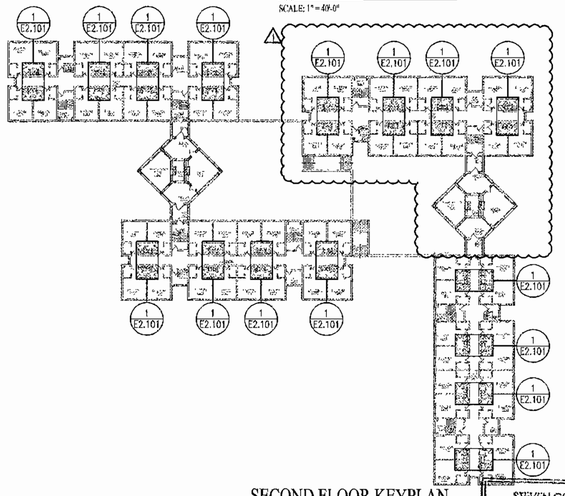
EX EXISTING TO REMAIN.
RR REMOVE AND REINSTALLED ON NEW SURFACE.



BASEMENT KEYPLAN
SCALE: 1" = 40'-0"



FIRST FLOOR KEYPLAN
SCALE: 1" = 40'-0"



SECOND FLOOR KEYPLAN
SCALE: 1" = 40'-0"

STEVEN COSTA
2/27/15
No. 7813
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL

Tecton Architects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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CREATIVE ENVIRONMENTS CORP. CONSULTING ENGINEERS
HVAC-ELECTRICAL-PLUMBING
• FIRE PROTECTION•
50 OFFICE PARKWAY
EAST PROVIDENCE, RI 02914
P: 401.438.7720 F: 401.435.7680
120 MAPLE STREET, SUITE 104
SPRINGFIELD, MA 01103
P: 413.310.7442 F: 413.796.1264
WWW.CES-ENGINEERING.COM

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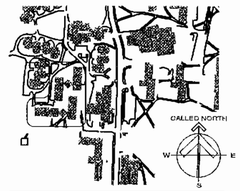
Project
University of Rhode Island
FAYERWEATHER & GORHAM BATHROOM RENOVATIONS
KINGSTON, RI

Key Plan



Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

Revisions

No.	Date	Description
1	02/25/15	CLARIFICATIONS

Drawing Title

DEMOLITION & NEW ELECTRICAL PLAN

Issue Date:	01/30/2015		
Project No:	URI39IN	Scale:	AS NOTED
Project Manager:	WMS	Production Leader:	GC
Project Architect:	MT	Peer Reviewer:	

Drawing Number
E2.101

ELECTRICAL SPECIFICATIONS:

PART 1 – GENERAL

1.1. GENERAL REQUIREMENTS:
ALL WORK SHALL BE IN ACCORDANCE WITH THE ARRANGEMENT, DETAILS AND LOCATION AS INDICATED ON THE CONTRACT DOCUMENTS, REFERENCE DRAWINGS AND ANY SUPPLEMENTAL ADDENDA, BULLETINS OR DRAWINGS ISSUED BY THE ARCHITECT/ENGINEER. LAYOUTS ARE DIAGRAMMATIC AND FINAL ARRANGEMENT OF EQUIPMENT SHALL SUIT FIELD CONDITIONS. REFER TO ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT FOR THE EXACT LOCATION OF ALL EQUIPMENT AND REQUIRED MOUNTING HEIGHTS PRIOR TO THE START OF ANY ROUGHING. THE RIGHT IS RESERVED TO MAKE ANY REASONABLE CHANGE IN LOCATION TO OUTLETS AND EQUIPMENT PRIOR TO ROUGHING AT NO ADDITIONAL EXPENSE TO THE OWNER.

1.2. SCOPE OF WORK:
THE SCOPE OR WORK CONSISTS OF THE INSTALLATION OF ALL MATERIALS TO BE FURNISHED UNDER THIS SECTION, AND WITHOUT LIMITING THE GENERALITY THEREOF, CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, STORAGE, TRANSPORTATION, RIGGING, STAGING, APPURTENANCES AND SERVICES NECESSARY AND/OR INCIDENTAL TO PROPERLY COMPLETE ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, OR AS REASONABLE INFERRED FROM EITHER, IN THE OPINION OF THE ARCHITECT/ENGINEER AS BEING REQUIRED.

1.3. SITE VISIT:
BIDDERS ARE ADVISED TO VISIT THE SITE AND INFORM THEMSELVES AS TO CONDITIONS UNDER THIS WORK WILL BE PERFORMED. FAILURE TO DO SO WILL, IN NO WAY, RELIEVE THE SUCCESSFUL BIDDER FROM THE RESPONSIBILITY OF FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER. FIELD VERIFY MEASUREMENTS AND CIRCUITING ARRANGEMENTS THAT ARE AS SHOWN ON DRAWINGS. ARRANGEMENTS SHALL BE MADE WITH THE OWNER PRIOR TO THE VISIT FOR INSPECTION OF THE EXISTING BUILDINGS.

1.4. RELATED WORK:
1. THE FOLLOWING RELATED WORK IS NOT INCLUDED UNDER THIS SECTION AND SHALL BE PROVIDED UNDER OTHER SECTIONS, COORDINATE WILL ALL WITH ALL DIVISIONS TO ENSURE A COMPLETE INSTALLATION:

A. FIELD PAINTING.

1.5. DEFINITIONS:
A. "CONCEALED" SHALL BE DEFINED AS AREAS WHERE CONDUIT AND WIRING IS LOCATED IN CHASES, WALLS, PARTITIONS, SHAFTS, AND ABOVE FINISHED CEILINGS.
D. "CONDUIT" SHALL MEAN IN ADDITION TO CONDUIT, ALL FITTINGS, HANGERS AND OTHER ACCESSORIES RELATING TO SUCH CONDUIT SYSTEMS.
E. "WIRING" SHALL MEAN WIRE, RACEWAY, BOXES AND FITTINGS.
F. "PROVIDE" SHALL MEAN "PROVIDED COMPLETE IN PLACE" THAT IS, "FURNISHED AND INSTALLED."

1.6. CODES, REGULATIONS, AND PERMITS:
ALL WORK UNDER THIS SECTION SHALL CONFORM TO THE LATEST EDITIONS OF THE LOCAL STATE BUILDING CODE, THE STATE ELECTRICAL CODE, NFPA, ANSI/NECA INSTALLATION STANDARDS, AND ALL OTHER LOCAL GOVERNING CODES. GIVE NOTICES, FILE PLANS, OBTAIN AND PAY FOR PERMITS AND LICENSES AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES HAVING JURISDICTION. PERMITS SHALL BE SECURED THROUGH THE STATE. DELIVER CERTIFICATES OF INSPECTIONS TO ARCHITECT/ENGINEER. NO WORK SHALL BE COVERED BEFORE EXAMINATION AND APPROVAL BY ARCHITECT/ENGINEER AND THE AUTHORITIES HAVING JURISDICTION. IMPERFECT OR CONDEMNED WORK SHALL BE REPLACED WITH WORKING CONFORMING TO REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER, SUBJECT TO APPROVAL OF THE ARCHITECT/ENGINEER. IF WORK IS COVERED BEFORE DUE INSPECTION AND APPROVAL THE ELECTRICAL CONTRACTOR SHALL PAY COSTS OF UNCOVERING THE INSTALLED WORK, WHETHER IT MEETS CONTRACT REQUIREMENTS OR NOT.

1.7. MATERIALS:
ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION SHALL BE NEW AND OF THE BEST GRADE FOR THE SERVICE INTENDED. IT IS NOT INTENDED THAT THESE SPECIFICATIONS OR DRAWINGS SHOW EVERY CONDUIT, FITTING, AND APPURTENANCE. ALL SUCH PARTS NECESSARY FOR THE COMPLETE EXECUTION OF THE WORK, IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE AND TO THE SATISFACTION OF THE ARCHITECT/ENGINEER SHALL BE PROVIDED WHETHER THESE PARTS MAY HAVE SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS.

1.8. SHOP DRAWINGS:
WHERE THE DRAWINGS OR SPECIFICATIONS LIST SPECIFIC BRANDS OR CATALOG NUMBERS, ONLY THESE PRODUCTS MAY BE USED UNLESS THE WORDS: "OR APPROVED EQUAL" OR "BUT ARE NOT LIMITED TO" ARE INCLUDED. THE ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE ELECTRICAL CONTRACTOR FROM COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, NOR DEPARTURES THEREOF. THE ELECTRICAL CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFORMING AND CORRECTNESS OF ALL QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATING PROCESSES, FOR TECHNIQUES OR ASSEMBLY, AND FOR PERFORMING THEIR WORK IN A SAFE MANNER. DEVIATIONS TO SPECIFIED MATERIALS SHALL BE AT THE SOLE RISK OF THE ELECTRICAL CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR ALL ASSOCIATED CHANGES TO THIS AND OTHER TRADES. WITHIN THIRTY (30) DAYS AFTER THE DATE OF NOTICE TO PROCEED, AND BEFORE THE PROCUREMENT OF ANY MATERIALS AND EQUIPMENT, SUBMIT FOR APPROVAL A COMPLETE ITEMIZED LIST OF ALL THE MATERIALS AND EQUIPMENT INCORPORATED UNDER THIS SECTION. ALL SHOP DRAWING SUBMITTALS SHALL BE COMPLETE AND INCLUDE ALL PART 2 PRODUCTS. NO CONSIDERATION WILL BE GIVEN TO PARTIAL SUBMITTALS, EXCEPT WITH PRIOR APPROVAL.

1.9. OPERATIONS AND MAINTENANCE MANUALS:
1. PRIOR TO THE TIME OF TURNING OVER HIS CONTRACT TO THE OWNER FOR USE AND OCCUPANCY OR SUBSTANTIAL COMPLETION, SECURE AND DELIVER TO THE ARCHITECT/ENGINEER THREE (3) COMPLETE INDEXED BOUND FILES CONTAINING APPROVED OPERATING AND MAINTENANCE MANUALS, SHOP DRAWINGS, AND OTHER DATA AS FOLLOWS:
A. OPERATION DESCRIPTION OF ALL SYSTEMS.
B. COMPLETE SHOP DRAWINGS OF ALL EQUIPMENT.
C. PREVENTIVE MAINTENANCE INSTRUCTIONS FOR ALL SYSTEMS.
D. SPARE PARTS LISTS OF ALL SYSTEM COMPONENTS.
E. NAMES ADDRESS AND TELEPHONE NUMBERS OF ALL SUPPLIERS OF THE SYSTEMS.
2. NON-AVAILABILITY OF OPERATING AND MAINTENANCE MANUALS OR INACCURACIES THEREIN MAY BE GROUNDS FOR CANCELLATION AND POSTPONEMENT OF ANY SCHEDULED FINAL INSPECTION BY THE OWNER UNTIL SUCH TIME AS THE DISCREPANCY HAS BEEN CORRECTED AND/OR RETAINAGE OF SUFFICIENT MONIES TO PREPARE SAME.

1.10. RECORD DRAWINGS:
OWNER'S RECORD DRAWINGS SHALL BE UPDATED AS THE PROJECT PROGRESSES. MAINTAIN DOCUMENTS IN SAFE, DRY LOCATION. INDICATE CLEARLY AND ACCURATELY ANY CHANGES NECESSITATED BY FIELD CONDITIONS AND DIMENSIONS ALL CONCEALED RACEWAYS. THE ELECTRICAL CONTRACTOR SHALL DELIVER THE COMPLETED REPRODUCIBLE RECORD DRAWINGS AND CAD DISKS PROPERLY TITLED AND DATED TO ARCHITECT/ENGINEER. THESE RECORD DRAWINGS SHALL BECOME THE PROPERTY OF THE OWNER.

1.11. CHANGE ORDERS/PROPOSAL REQUEST:
A. DURING THE COURSE OF CONSTRUCTION, CHANGES IN THE WORK MAY OCCUR. WHEN A SIGNIFICANT CHANGE IS TO BE MADE, A PROPOSAL REQUEST WILL BE ISSUED.
B. PROVIDE A COMPLETE COST BREAKDOWN WHEN RESPONDING TO EACH PROPOSAL REQUEST.
C. EACH ITEM OF WORK TO BE PRICED SEPARATELY.
D. EACH LINE ITEM TO BE BROKEN DOWN INCLUDING QUANTITIES AND LISTING SEPARATELY LABOR AND MATERIAL.
E. BOTH CREDITS AND EXTRAS SHALL BE SEPARATELY AND CLEARLY QUANTIFIED.
F. ALLOWANCES FOR OVERHEAD AND PROFIT SHALL BE AS LISTED IN THE SUPPLEMENTARY CONDITIONS.
G. IF YOU BECOME AWARE OF A FIELD CONDITION, CODE REQUIREMENT, ERROR, OR OMISSION THAT YOU FEEL SHOULD RESULT IN A CHANGE TO THE WORK, PLEASE CONTACT THE ENGINEER FOR DISCUSSION. THE ENGINEER MAY BE ABLE TO CLARIFY THE SITUATION AND AVOID UNNECESSARY PAPERWORK.
H. IT IS RECOGNIZED THAT THE OWNER BENEFITS WHEN THE CONSTRUCTION PROCESS IS A COOPERATIVE EFFORT INSTEAD OF AN ADVERSARIAL RELATIONSHIP. REASONABLE GIVE-AND-TAKE ALLOWS THE CONSTRUCTION PROCESS TO MOVE SMOOTHLY. YOUR EFFORTS IN THIS REGARD WILL BE APPRECIATED BY ALL PARTIES.

1.12. GUARANTEE AND SERVICE:
THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE PERFORMANCE OF THE INSTALLATION AND ALL EQUIPMENT INCLUDED IN THIS SECTION IN WRITING FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEER. SHOULD ANY DEFECTS IN MATERIALS OR WORKMANSHIP APPEAR DURING THIS PERIOD, THEY SHALL BE CORRECTED OR REPLACED BY THE ELECTRICAL CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

1.13. COORDINATE WITH OTHER TRADES:
CONFER WITH OTHER TRADES AND FURNISH IN WRITING TO THE ARCHITECT/ENGINEER ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY. WORK INSTALLED THAT CREATED INTERFERENCE OR RESTRICTS ACCESS REQUIRED BY CODE OR TO CONDUCT MAINTENANCE AND/OR ADJUSTMENTS SHALL BE MODIFIED AT NO ADDITIONAL COST TO THE OWNER. FURNISH TO OTHER TRADES ANY INFORMATION REQUIRED FOR THE PURPOSE OF COORDINATING ADJACENT WORK.

1.14. SLEEVES, INSERTS, AND SUPPORTS:
THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INSERTS, CONDUIT HANGERS, ANCHORS AND STEEL SUPPORTS NECESSARY FOR THE SUPPORT AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT.

1.15. CUTTING AND PATCHING:
INCLUDE ALL CORING, CUTTING, PATCHING AND FIREPROOFING NECESSARY FOR THE EXECUTION OF THIS SECTION. STRUCTURAL ELEMENTS SHALL NOT BE CUT WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. REPAIR AND PATCH AROUND THE WORK SPECIFIED HEREIN TO MATCH THE EXISTING ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. FILL AND PATCH ALL OPENINGS OR HOLES LEFT IN THE EXISTING STRUCTURES BY THE REMOVAL OF EXISTING EQUIPMENT THAT IS PART OF THIS SECTION OF THE SPECIFICATIONS. APPLY FIRESTOPPING TO CABLE AND RACEWAY SLEEVES AND OTHER PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL UNDISTURBED FIRE-RESISTANCE RATINGS OF ASSEMBLIES.

1.16. SAFETY REQUIREMENTS:
LIFE SAFETY AND ACCIDENT PREVENTION SHALL BE A PRIMARY CONSIDERATION. COMPLY WITH ALL THE SAFETY REQUIREMENTS OF THE OWNER AND OSHA THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. FURNISH, PLACE AND MAINTAIN PROPER GUARDS AND ANY OTHER NECESSARY CONSTRUCTION REQUIRED TO SECURE SAFETY OF LIFE AND PROPERTY.

1.17. ACCESSIBILITY:
ALL WORK PROVIDED UNDER THIS SECTION SHALL BE PROVIDED SO THAT PARTS REQUIRING PERIODIC INSPECTION, MAINTENANCE AND REPAIR ARE READILY ACCESSIBLE, WORK OF THIS TRADE SHALL NOT INFRINGE UPON THE CLEARANCES OF OTHER TRADES.

1.18. PROTECTION OF WORK AND PROPERTY:
THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND THE PROTECTION OF ALL WORK INCLUDED UNDER THIS SECTION UNTIL THE COMPLETION AND FINAL ACCEPTANCE OF THIS PROJECT. PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE FROM ALL CAUSES INCLUDING, BUT NOT LIMITED TO, FIRE, VANDALISM, AND THEFT. ALL MATERIALS AND EQUIPMENT DAMAGED OR STOLEN SHALL BE REPAIRED OR REPLACED WITH EQUAL MATERIAL OR EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. PROTECT ALL EQUIPMENT, OUTLETS AND OPENINGS, AND ROOF PENETRATIONS WITH TEMPORARY PLUGS, CAPS AND COVERS. PROTECT WORK AND MATERIALS OF OTHER TRADES FROM DAMAGE THAT MIGHT BE CAUSED BY WORK OR WORKMEN UNDER THIS SECTION AND MAKE GOOD ON DAMAGE THUS CAUSED. DAMAGED MATERIALS SHALL BE REMOVED FROM THE SITE; NO SITE SYSTEMS AND EQUIPMENT CAUSED BY THE ELECTRICAL CONTRACTOR DURING INSTALLATION SHALL BE REPAIRED AND/OR REPLACED AT THIS CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE BUILDING OWNER.

1.20. PROJECT CLOSEOUT:
A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY THE ELECTRICAL CONTRACTOR INDICATING THAT THE INSTALLATION IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND ALL APPLICABLE LOCAL, STATE AND FEDERAL STATUTES AND CODES. FINAL INSPECTION BY THE ENGINEER SHALL BE CONDUCTED AFTER RECEIPT OF THE CERTIFICATE OF COMPLETION. NO LIFE SAFETY DEFICIENCIES IN THE EGRESS OR EXIT LIGHTING SYSTEMS; FIRE ALARM SYSTEM, OR THE EMERGENCY POWER SYSTEM SHALL BE PRESENT WHEN REQUESTING FINAL INSPECTION. PREMATURE REQUESTS FOR FINAL INSPECTIONS THAT REQUIRE REINSPECTION OF DEFICIENT ITEMS WILL RESULT IN BACK CHARGES OF THE COSTS ASSOCIATED WITH THE REINSPECTION.

1.22. DRAWINGS AND SPECIFICATIONS:
THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER, AND ANY LABOR OR MATERIAL CALLED FOR BY EITHER, WHETHER OR NOT BY BOTH, OR NECESSARY FOR THE SUCCESSFUL OPERATION OF ANY COMPONENTS SHALL BE PROVIDED. BEFORE INSTALLING ANY WORK, VERIFY THAT IT DOES NOT INTERFERE WITH THE CLEARANCES REQUIRED FOR OTHER WORK. INSTALLED WORK WHICH INTERFERES WITH EXISTING NECESSARY SERVICES SHALL BE MODIFIED AS DIRECTED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER. BE FAMILIAR WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES TO PREVENT INTERFERENCES AND ASSURE COMPLETE COORDINATION. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS REQUEST CLARIFICATION FROM THE ENGINEER PRIOR TO START AND OR CONTINUATION OF ANY WORK OR THE PROCUREMENT OF ANY MATERIALS AND EQUIPMENT.

PART 2 – PRODUCTS

2.1. WIRE AND CABLE:
WIRING SHALL BE TYPE THHN/THWN OR XHHN, MINIMUM OF #12 AWG SOLID COPPER WITH CONDUCTIVITY OF NOT LESS THAN 98% OF THE ANSI STANDARD FOR ANNEALED COPPER, UL LISTED FOR BUILDING WIRE 90 DEGREES CELSIUS. WET OR DRY LOCATIONS RATED FOR 600V SERVICE. MC AND FAMC CABLING CAN BE USED WHERE CONCEALED. CONDUCTORS LARGER THAN #10 SHALL BE STRANDED. COLOR CODING SHALL BE CONSISTENT THROUGHOUT.

2.2. CONDUIT:
ELECTRIC METALLIC TUBING SHALL BE ELECTRO-GALVANIZED SHERARDIZED STEEL. WHERE EXPOSED, ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL ROUTING OF CONDUIT SHALL BE RUN PERPENDICULAR TO BUILDING WALLS. ALL ELECTRIC METALLIC TUBING SHALL BE UTILIZED WITH STEEL SET SCREW TYPE FITTINGS. CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE; AND SHALL BE INDEPENDENT OF DUCTS, PIPES, CEILING AND THEIR SUPPORTING MEMBERS. ALL NEW WIRING RELATIVE TO THE NEW WALL IN THE LAUNDRY ROOM SHALL BE CONCEALED IN THE NEW WALL. ALL NEW OUTLET BOXES SHALL BE FLUSH MOUNTED.

2.3. RECEPTACLES:
A. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE GROUNDING TYPE, RATED 20 AMPERES, 125 VOLTS. RECEPTACLES SHALL BE BACK AND SIDE WIRED WITH SCREW TYPE TERMINALS HAVING SUITABLE CONDUCTOR RELEASE ARRANGEMENT. GFCI RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMPERES, 125 VOLTS.
B. COLOR OF RECEPTACLES SHALL BE AS SELECTED BY ARCHITECT.

2.4. OUTLET BOXES:
PROVIDE OUTLET BOXES AS REQUIRED FOR ALL ELECTRICAL DEVICES AND EQUIPMENT. MINIMUM SIZE OF BOXES SHALL BE 4", 1-1/4" DEEP. ALL OUTLET BOXES SHALL BE GALVANIZED STEEL.

2.5. PULL BOXES, JUNCTION BOXES AND WIREWAYS:
A. PULL BOXES SHALL BE OF CODE GAUGE GALVANIZED STEEL WITH SCREW COVERS TO MATCH. PULL BOXES AND WIREWAYS SHALL BE AS SHOWN ON CONTRACT DRAWINGS AND/OR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND/OR JOB CONDITIONS, WITH STEEL BARRIERS SEPARATING SYSTEMS.
B. WIREWAYS SHALL BE OF CODE GAUGE STEEL, BAKED ENAMEL MANUFACTURED STANDARD SECTIONS AND FITTINGS, WITH COMBINATION HINGED AND SCREW COVERS
C. CONDUCTORS PASSING THROUGH PULL BOXES AND WIREWAYS SHALL BE IDENTIFIED TO INDICATE THEIR ORIGIN AND TERMINATION. PROVIDE NAMEPLATES FOR ALL PULL BOXES.

PART 3 – EXECUTION

3.1. GENERAL:
A. ALL INTERRUPTIONS AND SHUTDOWNS OF EXISTING ELECTRICAL SYSTEMS AND SERVICES SHALL BE AS SHORT AS POSSIBLE AND AT TIME AND DURATION APPROVED IN WRITING BY THE OWNER AND THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL PREMIUM TIME ASSOCIATED WITH THE SYSTEM AND SERVICE INTERRUPTIONS AND SHUTDOWNS.

3.2. CLEANING, ADJUSTING, AND TESTING:
A. AT THE COMPLETION OF THE WORK, ALL PARTS OF THE INSTALLATION SHALL BE THOROUGHLY CLEANED. ALL DEVICES, EQUIPMENT, CONDUITS, AND FITTINGS SHALL BE COMPLETELY CLEANED OF GREASE, METAL CUTTINGS, DIRT WHICH MAY HAVE ACCUMULATED DURING CONSTRUCTION, AND PROTECTION COVERS.
B. ANY DISCOLORATION OR DAMAGE TO PARTS OF THE BUILDING, ITS FINISH OR FURNISHINGS DUE TO FAILING TO PROPERLY CLEAN THE ELECTRICAL SYSTEM SHALL BE REPAIRED BY THE ELECTRICAL CONTRACTOR WITHOUT COST TO THE OWNER.
C. THE ELECTRICAL CONTRACTOR SHALL TEST ALL WORK AND EQUIPMENT AS DIRECTED BY THE ARCHITECT AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, FURNISH ALL EQUIPMENT, NECESSARY PERSONNEL AND THE ELECTRICAL POWER.
D. THE ENTIRE INSTALLATION SHALL BE TESTED FOR SHORTS, GROUNDS AND OPEN CIRCUITS AND ALL DEFECTS SHALL BE CORRECTED BEFORE ACCEPTANCE OF HIS WORK.
E. ALL WORK SHALL BE DEMONSTRATED TO BE IN PROPER OPERATING CONDITION TO THE COMPLETE SATISFACTION OF THE ARCHITECT AND OWNER.

3.3. EQUIPMENT CONNECTIONS:
THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL SERVICE, INCLUDING POWER CABLES, BRANCH CIRCUIT EXTENSIONS, FIRE ALARM CABLES, MOTORS, CONTROLLERS, LIGHTING FIXTURES AND ALL OTHER EQUIPMENT AND SYSTEMS SPECIFIED OR SHOWN ON THE DRAWINGS.

3.4. GROUNDING AND BONDING:
PROVIDE GROUNDING AND BONDING METHODS IN ACCORDANCE WITH NEC CODE ARTICLE 250.

3.5. FIRE STOPPING:
1. ELECTRICAL INSTALLATIONS IN HOLLOW SPACES, VERTICAL SHAFTS AND VENTILATION OR AIR HANDLING DUCTS SHALL BE SO MADE THAT THE POSSIBLE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION WILL NOT BE SUBSTANTIALLY INCREASED.
2. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE-RESISTANCE RATING.

ELECTRICAL SYMBOL LEGEND

A, b (fixture symbol)	FLUORESCENT 1'x4' LIGHTING FIXTURE–LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER
O	SURFACE MOUNTED LIGHTING FIXTURE
S	SINGLE POLE SWITCH
(S)	FIRE ALARM STROBE ONLY
⊖	SINGLE RECEPTACLE MTD 18" A.F.F. TO CENTER.
(GFI symbol)	GROUND FAULT INTERRUPTING RECEPTACLE.
(J)	WALL MOUNTED JUNCTION BOX

ABBREVIATIONS

EC	ELECTRICAL CONTRACTOR

STEVEN COSTA
2-20-15
No. 7813
REGISTERED
PROFESSIONAL ENGINEER
ELECTRICAL

TectonArchitects
Tecton Architects | pc
Hartford CT, Westerly RI
860 548 0802
www.tectonarchitects.com

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Consultant CEC# 20150001
CREATIVE ENVIRONMENT CORP. CONSULTING ENGINEERS
HVAC · ELECTRICAL · PLUMBING · FIRE PROTECTION ·
50 OFFICE PARKWAY
EAST PROVIDENCE, RI 02914
P. 401.438.7783 F. 401.438.7620
120 MAPLE STREET, SUITE 304
SPRINGFIELD, MA 01103
P. 413.519.7542 F. 413.755.1294
WWW.CEC-ENGINEERING.COM

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Project
University of Rhode Island
FAYERWEATHER & GORHAM
BATHROOM RENOVATIONS
KINGSTON, RI

Key Plan

Seals
CONSTRUCTION DOCUMENTS

Issues

Date	Description

Revisions

No.	Date	Description

Drawing Title
SPECIFICATIONS AND SYMBOL LEGEND

Issue Date:	01/30/2015		
Project No:	URI20IN	Scale:	AS NOTED
Project Manager:	WMS	Production Leader:	
Project Architect:		Peer Reviewer.	SC

Drawing Number
E2.102