PHARR - SAN JUAN - ALAMO INDEPENDENT SCHOOL DISTRICT

NORTH ECHS - AND - COLLEGE & UNIVERSITY CAMPUS
STUDENT RESTROOM RENOVATIONS

ABBREVIATIONS

THIS IS A GENERAL LIST. ALL ABBREVIATIONS MAY NOT APPLY.

A

@	AT
A, AMP	AMPERES
AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
ACOU	ACOUSTICAL
ADJ.	ADJUSTABLE
ADMIN	ADMINISTRATIVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
∡	ANGLE
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY
ARCH, ARCHL	ARCHITECTURAL
ASS'Y	ASSEMBLY
AUX	AUXILIARY
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWP	ACOUSTICAL WALL PANEL

B

BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOS	BOTTOM OF STEEL
B, BOTT	BOTTOM
BRZ	BRONZE
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOF

C

C	CENTIGRADE
CAB	CABINET
CFMF	COLD-FORMED METAL FRAMING
CH	COAT HOOK
CHBD	CHALK BOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL, ℄	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONNX	CONNECTION
CONST.	CONSTRUCTION
CONT	CONTINUOUS
CRDR	CORRIDOR
CRS	COURSE
CT	CERAMIC TILE
CTK	CURTAIN TRACK
CU	CUBIC
CUST	CUSTODIAN
CWFP	CEMENTITIOUS WOOD FIBER PLANK

D

DBL	DOUBLE
DEF	DEFORMED
DIA, ø	DIAMETER
DIAG	DIAGRAM
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DP	DAMPPROOFING
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWLS	DOWELS
DWR	DRAWER

E

E, ELEC	ELECTRICAL
EA	EACH
EF	EXHAUST FLUE
EGSB	EXTERIOR GYPSUM SOFFIT BOARD
EIFS	EXTERIOR INSULATED FINISH SYSTEM
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXGR	EXISTING GRADE
EXH	EXHAUST
EXIST, EXG	EXISTING
EXP	EXPANSION
EXPD	EXPOSED
EXT	EXTERIOR

F

F	FAHRENHEIT
FA	FIRE ALARM
FC	FIRE CODE
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FGD	FINISH GRADE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOLD PART	FOLDING PARTITION
FRP	FIBER REINFORCED PLASTIC
FR-WD	FIRE-RETARDANT TREATED WOOD
FS	FOOT SCRAPER
FT	FEET
Fy	YIELD STRESS
FUR	FURRING

G

G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GRADE
GDW, GYP.BD.	GYPSUM DRYWALL
GEN	GENERAL
GL	GLASS
GND	GROUND
GSFT	GLAZED STRUCTURAL FACING TILE
GWP	GYPSUM WALLBOARD
GYP	GYPSUM

H

HB	HOSE BIBB
HC	HANDICAPPED, HOLLOW CORE
HCFV	HOLLOW CORE FINISH VENEER
HD	HEAD, HEADED, HEAVY DUTY
HDG	HOT-DIPPED GALVANIZED
HDWR	HARDWARE
HEWC	HANDICAP ELECTRIC WATER COOLER
HM	HOLLOW METAL
HORIZ, H	HORIZONTAL
HR, HRS	HOUR, HOURS
HT	HEIGHT
HWD	HARD WOOD

I

IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER, DIMENSION
IG	INSULATING GLASS
IN	INCH, INCHES
INC	INCANDESCENT
INCL	INCLUDING
INSUL	INSULATION
INT	INTERIOR

J

JAN	JANITOR
JST	JOIST
JT	JOINT

L

L	ANGLE SHAPE
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LG	LENGTH
LIB	LIBRARY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSD	LIQUID SOAP DISPENSER
LVR	LOUVER
LW	LIGHTWEIGHT

M

MAS	MASONRY
MAINT	MAINTENANCE
MAX	MAXIMUM
MB	MARKER BOARD
MC	MEDICINE CABINET
MECH, MECH'L	MECHANICAL
MFR	MANUFACTURER
MGR	MANAGER
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MM	MILLIMETER
MMB	MEMBRANE
MO	MASONRY OPENING
MPH	MILES PER HOUR
MTCS	MULTI-TONE COLOR SYSTEM
MTL,MET	METAL
MULL	MULLION

N

NA	NOT APPLICABLE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO, #	NUMBER
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMETER/DIMENSION
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN

P

PA	PUBLIC ADDRESS
PAR	PARALLEL
PCP	PORTLAND CEMENT PLASTER
PEN	PENETRATION
PERP	PERPENDICULAR
PG	PLATE GLASS
PL, ℙ	PLATE
PLAS LAM	PLASTIC LAMINATE
PLAS	PLASTER
PLT	PLASTIC
PLYWD	PLYWOOD
PNL	PANEL
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATED
PREFIN, PF	PREFINISHED
PNT	PAINT, PAINTED
PNTGR	PAINT GRADE
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT

Q

QA	QUALITY ASSURANCE
QT	QUARRY TILE

R

R	RADIUS
RA	RETURN AIR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCED, REINFORCEMENT
REF	REFER, REFERENCE
REP	REPRESENTATIVE
REQD	REQUIRED
RO	ROUGH OPENING
RM	ROOM
RV	ROOF VENT

S

SB	SPLASH BLOCK
SC	SOLID CORE
SCFV	SOLID CORE FLUSH VENEER
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SEC	SECONDARY
SF	SQUARE FEET
SGFT	STRUCTURAL GLAZED FACING TILE
SGL	SINGLE
SH, SHT	SHEET
SHR	SHOWER
SIM	SIMILAR
SJ	SAWN CONTROL JOINT
SLD	SEALED
SND	SANITARY NAPKIN DISPOSAL UNIT
SNT	SEALANT
SNV	SANITARY NAPKIN VENDOR
SPA	SPACES
SQ	SQUARE
SR	SHOWER ROD
SS	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT,STRCT	STRUCTURE, STRUCTURAL
SUS	SUSPENDED

T

T, TEL	TELEPHONE
T	TOP
TB	TACKBOARD
TC	TEACHER CABINET
TECH	TECHNICAL
TEMP	TEMPERATURE
TKBD	TACKBOARD
TKS	TACK STRIP
TKSF	TACK SURFACE
TLT	TOILET
TOC	TOP OF CURB
TOD	TOP OF DRAIN
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOILET PARTITION
TTD	TOILET TISSUE DISPENSER
TYP	TYPICAL

U

UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
URS	URINAL SCREEN
UTIL	UTILITY

V

V	VOLTS
V, VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VEND	VENDING
VEST	VESTIBULE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING

W

W	WATTS
W/	WITH
WB	WIND BRACE
WBBP	WIND BRACE BASEPLATE
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WNDW	WINDOW
WO	WITHOUT
WOM	WOMEN
WP	WEATHERPROOF
WPG	WATERPROOFING
WR	WASTE RECEPTICLE
WRGD	WATER RESISTANT GYPSUM DRYWALL
WR-WD	WATER-RESISTIVE TREATED WOOD
WSTRIP	WEATHER-STRIP
WT	WEIGHT
WWF	WELDED-WIRE FABRIC

MATERIAL LEGEND

THIS IS A GENERAL LEGEND. ALL SYMBOLS MAY NOT APPLY.

- EARTH (UNDISTURBED)
- EARTH (COMPACTED)
- POROUS FILL (STONE OR GRAVEL, ETC.)
- ROCK
- STRUCTURAL CONCRETE
- BRICK (COMMON OR FACE)
- CONCRETE MASONRY UNITS (CMU)
- GLAZED STRUCTURAL FACING TILE (GSFT)
- CUT STONE
- METAL (LARGE SCALE)
- METAL (SMALL SCALE)
- ACOUSTICAL CEILING TILE
- PLASTER, SAND, CEMENT, GROUT
- GYPSUM DRYWALL
- GLASS
- RIGID INSULATION
- BATT INSULATION
- ROUGH WOOD (CONTINUOUS)
- ROUGH WOOD (NON-CONTINUOUS)
- FINISH WOOD
- PLYWOOD

SYMBOL LEGEND

THIS IS A GENERAL LEGEND. ALL SYMBOLS MAY NOT APPLY

5/A5	SECTION
3/A2	DETAIL
1	CONSTRUCTION NOTE
3	DEMOLITION NOTE
8/A1.13	DETAIL NUMBER
01	DOOR NUMBER
1	EQUIPMENT NOTE
8	GLAZING TYPE
1/A2.1	INTERIOR ELEVATION
3	REVISION NUMBER
OFFICE 100	ROOM NAME & NUMBER
10	TOILET NOTE
B	PARTITION TYPE
A	WINDOW TYPE
	NEW CONSTRUCTION

INDEX OF DRAWINGS

GENERAL

G-000	INDEX OF DRAWINGS
G-001	ADA GUIDELINES

SITE 1: NORTH ECHS & COLLEGE

STRUCTURAL

S1.1N	GENERAL STRUCTURAL NOTES
S1.2N	GENERAL STRUCTURAL NOTES
SD2.1N	FOUNDATION DEMO PLAN AREA S
S2.1N	FOUNDATION RENOVATION PLAN AREA S
SD2.2N	FOUNDATION DEMO PLAN AREA N
S2.2N	FOUNDATION RENOVATION PLAN AREA N
SD2.3N	FOUNDATION DEMO PLAN AREA P
S2.3N	FOUNDATION RENOVATION PLAN AREA P
SD2.4N	FOUNDATION DEMO PLAN AREA V
S2.4N	FOUNDATION RENOVATION PLAN AREA V
SD2.5N	FOUNDATION DEMO PLAN AREA E
S2.5N	FOUNDATION RENOVATION PLAN AREA E
SD2.6N	FOUNDATION DEMO PLAN AREA A,G,H, AND J
S2.6N	FOUNDATION RENOVATION PLAN AREA A,G,H AND J
SD2.7N	FOUNDATION DEMO PLAN AREA K
S2.7N	FOUNDATION RENOVATION PLAN AREA K
S2.8N	SLAB REPAIR DETAILS

DEMOLITION

D-100-N	BUILDING S & BUILDING N DEMO PLAN
D-101-N	BUILDING P & BUILDING V DEMO PLAN
D-102-N	BUILDING E DEMO PLAN
D-103-N	BUILDING A-G-H-J DEMO PLAN
D-104-N	BUILDING A-G-H-J DEMO PLAN
D-105-N	BUILDING A-G-H-J DEMO PLAN
D-106-N	BUILDING K DEMO PLAN

ARCHITECTURAL

A-110-N	BLDG S FLRPLN & REFL. CLG. PLAN
A-111-N	BLDG S INT. ELEV. & ENLRG. FLRPLN.
A-112-N	BLDG N FLRPLN & REFL. CLG. PLAN
A-113-N	BLDG N INT. ELEV. & ENLRG. FLRPLN.
A-114-N	BLDG P FLRPLN & REFL. CLG. PLAN
A-115-N	BLDG P INT. ELEV. & ENLRG. FLRPLN.
A-116-N	BLDG V FLRPLN & REFL. CLG. PLAN
A-117-N	BLDG V INT. ELEV. & ENLRG. FLRPLN.
A-118-N	BLDG E FLOORPLAN
A-119-N	BLDG E REFL CLG PLAN & ENLRG FLRPLN
A-120-N	BLDG E INTERIOR ELEVATION
A-121-N	BLDG A-G-H-J FLOORPLAN
A-122-N	BLDG A-G-H-J REFL. CLG. PLAN
A-123-N	BLDG A-G-H-J ENLRG. FLRPLN. & REFLECTED CEILING PLAN
A-124-N	BLDG A-G-H-J ENLRG. FLRPLN. & INTERIOR ELEVATION
A-125-N	BLDG A-G-H-J INTERIOR ELEVATION
A-126-N	BLDG K FLRPLN & REFL. CLG. PLAN
A-127-N	BLDG K INT. ELEV. & ENLRG. FLRPLN.
A-150-N	DOOR TYPES & DETAILS

MEP

MECHANICAL

M0.01N	MECHANICAL SYMBOLS AND ABBREVIATIONS
MD2.11N	BUILDING S & BUILDING N MECHANICAL DEMOLITION PLAN
MD2.12N	BUILDING P & BUILDING V MECHANICAL DEMOLITION PLAN
MD2.13N	BUILDING E MECHANICAL DEMOLITION PLAN
MD2.14N	BUILDING A-G-H-J MECHANICAL DEMOLITION PLAN
MD2.15N	BUILDING A-G-H-J MECHANICAL DEMOLITION PLAN
MD2.16N	BUILDING K MECHANICAL DEMOLITION PLAN
M2.11N	BLDG. S & BLDG. N MECHANICAL PLAN
M2.12N	BLDG. P & BLDG. V MECHANICAL PLAN
M2.13N	BUILDING E MECHANICAL PLAN
M2.14N	BUILDING A-G-H-J MECHANICAL PLAN
M2.15N	BUILDING A-G-H-J MECHANICAL PLAN
M2.16N	BUILDING K MECHANICAL PLAN
M4.01N	MECHANICAL DETAILS AND SCHEDULES

ELECTRICAL

E0.01N	ELECTRICAL SYMBOL LEGEND
ED2.11N	BUILDING S & BUILDING N ELECTRICAL DEMOLITION PLAN
ED2.12N	BUILDING P & BUILDING V ELECTRICAL DEMOLITION PLAN
ED2.13N	BUILDING E ELECTRICAL DEMOLITION PLAN
ED2.14N	BUILDING A-G-H-J ELECTRICAL DEMOLITION PLAN
ED2.15N	BUILDING A-G-H-J ELECTRICAL DEMOLITION PLAN
ED2.16N	BUILDING K ELECTRICAL DEMOLITION PLAN
EL2.11N	BLDG. S & BLDG. N ELECT. LIGHTING PLAN
EL2.12N	BLDG. P & BLDG. V ELECT. LIGHTING PLAN
EL2.13N	BUILDING E ELECTRICAL LIGHTING PLAN
EL2.14N	BUILDING A-G-H-J ELECT. LIGHTING PLAN
EL2.15N	BUILDING A-G-H-J ELECT. LIGHTING PLAN
EL2.16N	BUILDING K ELECTRICAL LIGHTING PLAN
EP2.11N	BLDG. S & BLDG. N ELECTRICAL POWER PLAN
EP2.12N	BLDG. P & BLDG. V ELECTRICAL POWER PLAN
EP2.13N	BUILDING E ELECTRICAL POWER PLAN
EP2.14N	BUILDING A-G-H-J ELECTRICAL POWER PLAN
EP2.15N	BUILDING A-G-H-J ELECTRICAL POWER PLAN
EP2.16N	BUILDING K ELECTRICAL POWER PLAN
E5.01N	ELECTRICAL SCHEDULE
E6.01N	ELECTRICAL DETAILS

PLUMBING

P-000N	PLUMBING LEGENDS
PD-105N	PLUMBING PLANS - NORTH CAMPUS BUILDINGS A,G,H,J
P-100N	PLUMBING PLANS - NORTH CAMPUS BUILDING S
P-101N	PLUMBING PLANS - NORTH CAMPUS BUILDING N
P-102N	PLUMBING PLANS - NORTH CAMPUS BUILDING P
P-103N	PLUMBING PLANS - NORTH CAMPUS BUILDING V
P-104N	PLUMBING PLANS - NORTH CAMPUS BUILDING E
P-105N	PLUMBING PLANS - NORTH CAMPUS BUILDING A,G,H,J
P-106N	PLUMBING PLANS - NORTH CAMPUS BUILDING K
P-401N	PLUMBING SCHEDULES
P-402N	PLUMBING DETAILS

SITE 2: UNVERSITY CAMPUS

STRUCTURAL

SD2.1U	FOUNDATION DEMO PLAN AREA R
S2.1U	FOUNDATION RENOVATION PLAN AREA R
SD2.2U	FOUNDATION DEMO PLAN AREA J AND R
S2.2U	FOUNDATION RENOVATION PLAN AREA J AND R
S2.3U	SLAB REPAIR DETAILS

DEMOLITION

D-210-U	OVERALL DEMOLITION PLAN
D-211-U	ENLARGED DEMOLITION PLANS

ARCHITECTURAL

AS-200-U	CAMPUS SITE PLAN
AS-201-U	SITE DETAILS
A-210-U	OVERALL FLOOR PLAN
A-211-U	SCIENCE LAB ENLARGED PLANS, ROOM FINISH & DOOR SCHEDULES
A-212-U	RESTROOM ENLARGED PLANS, FIXTURE LEGEND, ROOM FINISH & DOOR SCHEDULES
A-220-U	INTERIOR ELEVATIONS
A-221-U	INTERIOR ELEVATIONS
A-230-U	WALL TYPES
A-240-U	REFLECTED CEILING PLANS
A-250-U	DOOR / WINDOW TYPES & DETAILS

MEP

MECHANICAL

M0.01U	MECHANICAL SYMBOLS AND ABBREVIATIONS
MD2.11U	COMPOSITE MECHANICAL DEMO PLAN - UNIVERSITY CAMPUS
MD2.12U	COMPOSITE MECHANICAL DEMO PLAN - UNIVERSITY CAMPUS
M2.11U	COMPOSITE MECHANICAL PLAN - UNIVERSITY CAMPUS
M2.12U	COMPOSITE MECHANICAL PLAN - UNIVERSITY CAMPUS
M2.13U	COMPOSITE MECHANICAL PLAN - UNIVERSITY CAMPUS
M4.01U	MECHANICAL DETAILS AND SCHEDULES
M5.01U	MECHANICAL SCHEDULES
M6.01U	MECHANICAL PIPING AND WIRING DIAGRAMS

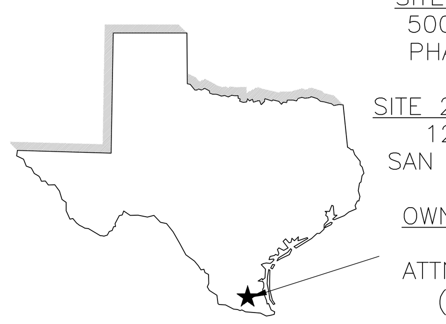
ELECTRICAL

E0.01U	ELECTRICAL SYMBOL LEGEND
ED2.11U	COMPOSITE LIGHTING DEMO PLAN - UNIVERSITY CAMPUS
ED2.12U	COMPOSITE ELECTRICAL DEMO PLAN - UNIVERSITY CAMPUS
EL2.11U	COMPOSITE ELECTRICAL LIGHTING PLAN - UNIVERSITY CAMPUS
EL2.12U	ENLARGED ELECTRICAL LIGHTING PLAN - UNIVERSITY CAMPUS
EL2.13U	ENLARGED ELECTRICAL LIGHTING PLAN - UNIVERSITY CAMPUS
EP2.11U	COMPOSITE ELECTRICAL POWER PLAN - UNIVERSITY CAMPUS
EP2.12U	ENLARGED ELECTRICAL POWER PLAN - UNIVERSITY CAMPUS
EP2.13U	ENLARGED ELECTRICAL POWER PLAN - UNIVERSITY CAMPUS
E4.01U	ELECTRICAL SINGLE LINE DIAGRAM
E5.01U	ELECTRICAL SCHEDULES
E6.01U	ELECTRICAL DETAILS
E6.02U	ELECTRICAL DETAILS

PLUMBING

P-000U	PLUMBING LEGENDS
PD-210U	COMPOSITE PLUMBING DEMO PLAN - UNIVERSITY CAMPUS
P-210U	COMPOSITE PLUMBING PLAN - UNIVERSITY CAMPUS
P-211U	COMPOSITE PLUMBING PLAN - UNIVERSITY CAMPUS
P-212U	COMPOSITE PLUMBING PLAN - UNIVERSITY CAMPUS
P-401U	PLUMBING SCHEDULES
P-402U	PLUMBING DETAILS
P-501U	PLUMBING RISERS - SEWER AND VENT - UNIVERSITY CAMPUS
P-502U	PLUMBING RISERS - DOMESTIC WATER - UNIVERSITY CMAPUS
P-503U	PLUMBING RISERS - UNIVERSITY CAMPUS

LOCATION MAP



SITE 1: PHARR, TEXAS
500 E. NOLANA LOOP
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MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE 11/30/2019

SIGNED: 05/10/2019

COLLEGE³ READY.CONNECTED.COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL / CQ
Checked:	JM
Scale:	N/A
ACAD File:	G-000

Revisions:

Sheet Title:

COVER INDEX OF DRAWINGS

G-000

May 09, 2019 - 11:58am User: cquezada
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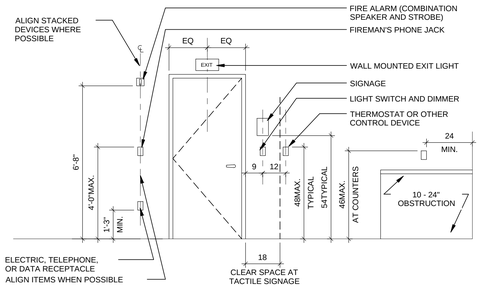
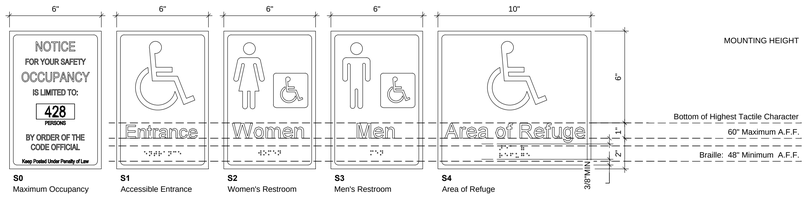


7 MISCELLANEOUS HEIGHTS
SCALE: 3/8" = 1'-0"



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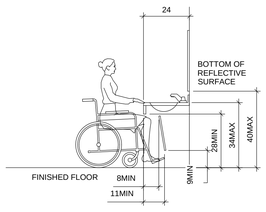
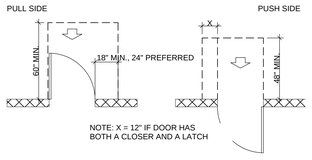
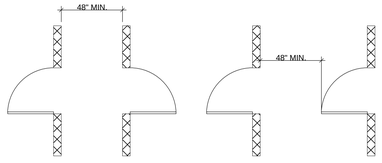


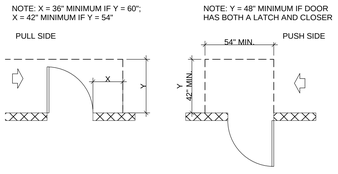
2 LAVATORY CLEARANCES
SCALE: 3/8" = 1'-0"



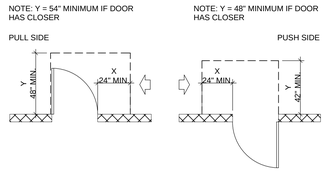
3 FRONT DOOR APPROACH
SCALE: 1/4" = 1'-0"



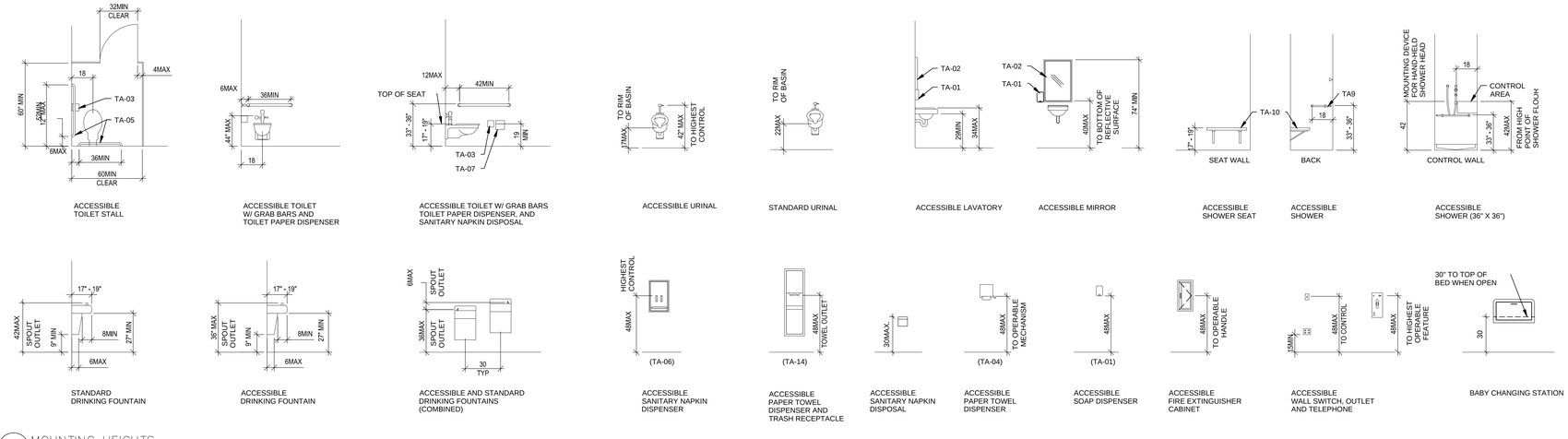
4 TWO HINGED DOORS IN SERIES
SCALE: 1/4" = 1'-0"



5 HINGE SIDE DOOR APPROACH
SCALE: 1/4" = 1'-0"



6 LATCH SIDE DOOR APPROACH
SCALE: 1/4" = 1'-0"



1 MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

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EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

COLLEGE3
READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	VARIOUS
ACAD File:	G-001

Revisions:

Sheet Title:

ADA GUIDELINES

G-001

May 09, 2019 – 9:52am User: cquezada
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GENERAL STRUCTURAL NOTES

THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS OR DETAILS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL COORDINATE ALL STRUCTURAL PLANS AND DETAILS WITH ARCHITECTURAL & MECHANICAL DRAWINGS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS AND METHODS OF CONSTRUCTION OR SITE SAFETY. DESIGN, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE CONTROLLING PROVISIONS OF THE 2012 EDITION OF THE **INTERNATIONAL BUILDING CODE (IBC).**

DESIGN CRITERIA

1. BASIS FOR DESIGN AND CODE COMPLIANCE

    A. GOVERNING BUILDING CODE...IBC 2012 EDITION

CONSTRUCTION NOTES ON THE REPAIR WORKS ON EXISTING STRUCTURE

1. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING. SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS. ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. WELDING TO AND WITHIN AN EXISTING FACILITY PRESENTS POTENTIAL HAZARDS INCLUDING:
    A. FIRE HAZARD – DUE TO THE EXISTING CONSTRUCTION AND BUILDING CONTENTS.
    B. STRUCTURAL LIQUEFACTION – DUE TO WELDING ACROSS THE FULL SECTION OF STRUCTURAL STEEL MEMBERS.

    RECOMMENDATIONS TO PREVENT THESE HAZARDS INCLUDE.

    A. FIRE HAZARD – PROTECT EXISTING COMBUSTIBLES PRIOR TO WELDING. KEEP A SEPARATE WATCHMAN AND SEVERAL FIRE EXTINGUISHERS ON HAND.
    B. STRUCTURAL LIQUEFACTION – WELD IN SMALL INCREMENTS. ALLOW WELDS TO HARDEN BEFORE CONTINUING TO THE NEXT INCREMENT.
    C. DO NOT LEAVE THE SITE UNTIL SATISFIED THAT NO FIRE HAZARD EXISTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING NECESSARY TO SAFEGUARD THE EXISTING STRUCTURE.

EXISTING CONDITIONS

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN ALL FIELD MEASUREMENTS AS NECESSARY TO COORDINATE NEW CONSTRUCTION TO EXISTING CONDITIONS.
2. IF EXISTING CONDITIONS DIFFER FROM THE DRAWINGS, INFORM THE ENGINEER AND ADDITIONAL DETAILS OR INTERPRETATION WILL BE PROVIDED. DO NOT PROCEED WITHOUT VERIFICATION.
3. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS.

DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND SURROUNDING BUILDINGS DURING CONSTRUCTION.
2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATERTIGHTNESS OF THE BUILDING DURING DEMOLITION AND RECONSTRUCTION.
3. GENERAL CONTRACTOR SHALL COORDINATE WITH ENGINEER ITEMS THAT ARE UNCLEAR PRIOR TO ANY DEMOLITION.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE PROJECT SITE TO DETERMINE DEMOLITION REQUIREMENTS AT THIS PROJECT. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL THE DEMOLITION REQUIREMENTS TO COMPLETE THIS PROJECT.
5. GENERAL CONTRACTOR SHALL LOCATE AND LABEL ALL UTILITIES BEFORE COMMENCEMENT OF DEMOLITION & CONSTRUCTION ACTIVITIES. UTILITIES SHALL BE CLEARLY MARKED SO THAT ANY SUBCONTRACTOR VISITING THIS SITE CAN EASILY IDENTIFY UTILITIES. ANY COSTS TO REPAIR DAMAGES IF UTILITIES ARE NOT PROPERLY IDENTIFIED, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING DEBRIS & MATERIAL AWAY FROM SITE ACCORDING TO GOVERNING LOCAL, STATE OR FEDERAL REGULATIONS.
7. ANY AREA DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

PENETRATIONS

1. PENETRATIONS THROUGH EXISTING ELEMENTS SHALL COMPLY WITH THE DRAWINGS AND SPECIFICATIONS.
2. DO NOT CUT JOISTS, BEAMS OR COLUMNS WITHOUT PRIOR APPROVAL.
3. PENETRATIONS THROUGH LOAD-BEARING ELEMENTS SHALL BE TEMPORARILY SHORED TO PREVENT COLLAPSE, AS SPECIFIED BELOW.

TEMPORARY BRACING, FALSEWORK AND FORMWORK

1. CONTRACTOR SHALL PROVIDE ENGINEERED SHORING PLAN PRIOR TO START OF ROOF COLUMN DEMOLITION. SHORING PLAN SHALL BE SIGNED AND SEALED BY A STATE OF TEXAS PROFESSIONAL ENGINEER.
2. THE DESIGN, ENGINEERING, FABRICATION, CONSTRUCTION, ERECTION, REMOVAL AND OVERALL SAFETY OF ALL TEMPORARY SUPPORTS SUCH AS FALSEWORK, FORMWORK, SHORES AND BRACING REQUIRED FOR THE EXECUTION OF THE CONTRACT ARE NOT INCLUDED IN THE DRAWINGS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE ENGINEER'S EFFORTS ARE AIMED AT DESIGNING A PROJECT WHICH WILL BE SAFE AFTER FULL COMPLETION. THE ENGINEER HAS NO EXPERIENCE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. SAFETY IS EXCLUSIVELY THE CONTRACTOR'S RESPONSIBILITY. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO SHORING, CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, MUST NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY ENGINEER OF ANY RESPONSIBILITY FOR THESE SAFETY PROCEDURES.

SAFETY

1. PERFORM ALL WORK IN A SAFE AND CONSCIENTIOUS MANNER TO PREVENT INJURIES.
2. CONTRACTOR SHALL MAINTAIN OSHA STANDARDS FOR JOB SAFETY AND WORKER PROTECTION, INCLUDING, BUT NOT LIMITED TO ADEQUATE PROTECTION, BARRICADES, SIGNS, ETC.
3. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY. THE ENGINEER EXPRESSLY EXCLUDES ANY RESPONSIBILITY FOR CONTRACTOR SAFETY OR SAFETY OF JOBSITE.

HAZARDOUS MATERIALS ABATEMENT/ MANAGEMENT

1. THE ENGINEER HAS NO RESPONSIBILITY OR LIABILITY FOR DESIGN, REMOVAL OF, OR TESTING FOR ASBESTOS/LEAD, OR FOR ABATEMENT /MANAGERIAL TREATMENTS, MONITORING, AND LEGAL DISPOSAL OF MATERIALS. CONTRACTOR SHALL DETERMINE IF ANY HAZARDOUS MATERIAL ABATEMENT/ MANAGEMENT IS REQUIRED AND SHALL INCLUDE COSTS THEREOF IN THE BID.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE SPECIFICATION, A.C.I. #301 AND BUILDING CODE REQUIREMENTS, A.C.I. #318, LATEST EDITION.
2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
4. A MAXIMUM OF 25% FLYASH MAY BE USED AS A CEMENT SUBSTITUTE AND SHALL CONFORM TO ASTM C618, CLASS C. THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.6 AND SLUMPS SHALL BE 5 INCHES (±1 INCH). AGGREGATE SHALL BE WELL-GRADED, 1" MAXIMUM FOR THE SLAB ON GRADE. COARSE AGGREGATE SHALL MEET ASTM C33, GRADATION #57. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO FURNISH MIX DESIGNS FOR ALL CLASSES OF CONCRETE. A SAMPLE OF FOUR CYLINDERS SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 YD3 OF CONCRETE. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO AT 28 DAYS. THE FOURTH CYLINDER MAY BE DISPOSED OF AFTER 45 DAYS IF NOT USED. DO NOT USE AIR ENTRAINED CONCRETE FOR STEEL TROWELED FINISHED CONCRETE.
5. ADMIXTURES CONTAINING WATER SOLUBLE CHLORIDE IONS GREATER THAN 0.06% BY WEIGHT OF CEMENT SHALL NOT BE USED.
6. REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. #3 BARS MAY BE GRADE 40.
7. STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:

    WHERE CAST AGAINST DIRT OR FILL .... 3 IN.
    EXPOSED TO EARTH OR WEATHER .... 2 IN.
    SLABS AND WALLS .... 1 IN.
    OTHER .... 1-1/2 IN.
8. ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.
9. SLAB MAT TO BE SUPPORTED BY MASONRY BATTS OR CHAIRS (MIN OF 1/2 BRICK) SPACED AT 4 FEET ON CENTER EACH WAY (MAX). BEAM CAGES SUPPORTED BY BATTS AT 4 FEET ON CENTER.

CONCRETE CONTINUED:

10. INCLUDE AN ALLOWANCE FOR **2.0 TON** OF REINFORCING BARS TO BE USED AS DIRECTED IN FIELD FOR SPECIAL CONDITIONS AT A COST OF **$2,000.00 PER TON** (LABOR FOR PLACING SAME TO BE INCLUDED).
11. MAINTAIN A MINIMUM OF ONE AND ONE-HALF (1-1/2) TIMES THE MAXIMUM COARSE AGGREGATE SIZE BETWEEN ALL REINFORCING BARS (EXCEPT AT LAPS).
12. BARS SCHEDULED OR DETAILED "CONT" SHALL BE LAPPED 40 BAR DIAMETERS (24 INCHES MINIMUM) UNLESS OTHERWISE NOTED.
13. CONCRETE MAY BE PLACED WITH CHUTES UP TO 25' MAXIMUM. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.
14. CONCRETE PLACED BY PUMPING SHALL MEET THE FOLLOWING REQUIREMENTS:
    A. COARSE AGGREGATE SHALL BE GRADED FROM A MAXIMUM OF 1" DOWN
    B. MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR SHALL BE 1/2 SACK PER CUBIC YARD OVER NORMAL MIX DESIGN.
    C. MAXIMUM WATER CEMENT RATIO SHALL BE 7-1/2 GALLONS PER SACK OF CEMENT.IF MORE WORKABILITY IS REQUIRED, AN ADMIXTURE MAY BE USED.
    D. MAXIMUM WEIGHT RATIO OF FINE AGGREGATES TO COARSE AGGREGATES SHALL NOT EXCEED 2/3.
    E. REFER TO A.C.I. #301, LATEST EDITION, SECTION 800, FOR OTHER PUMPING REQUIREMENTS.
    F. IN NO CASE SHALL CONCRETE BE PUMPED THROUGH AN ALUMINUM TUBE.
    G. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.
15. FLOOR FINISH (TOLERANCES)
    A. STEEL TROWEL FINISH 1/8" IN 10'
    B. FLOAT FINISH 1/4" IN 10'
    C. SCRATCH FINISH 1/2" IN 10'
16. CONCRETE TO BE CURED IN ACCORDANCE WITH ACI RECOMMENDATIONS. PROPOSED METHOD OF CURING TO BE COORDINATED WITH ENGINEER PRIOR TO CONCRETE PLACEMENT.
17. SHOP DRAWINGS SHALL BE PREPARED FOR ALL REINFORCING STEEL AND SUBMITTED FOR REVIEW BY ENGINEER. SUBMITTALS SHALL INCLUDE ELECTRONIC (PDF) COPIES OF EACH DRAWING. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
18. THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWING BEFORE SUBMITTING THEM TO THE ARCHITECT / ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT / ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.
19. ENGINEER TO BE NOTIFIED 48 HOURS PRIOR TO PLACEMENT OF FOUNDATION AND OF STRUCTURAL CONCRETE SCHEDULE REQUIRED OBSERVATIONS.

CONCRETE MASONRY

1. **THE GENERAL CONTRACTOR, PROJECT SUPERINTENDENT, TESTING LABORATORY AND THE MASONRY FOREMAN** SHALL MEET WITH THE STRUCTURAL ENGINEER PRIOR TO THE START OF MASONRY WORK TO REVIEW PROJECT REQUIREMENTS AND PROCEDURES.
2. AN INDEPENDENT TESTING LAB SHALL VERIFY PLACEMENT OF VERTICAL REINFORCING IN WALLS AND HORIZONTAL REINFORCING IN BOND BEAMS AND LINTELS PRIOR TO PLACEMENT OF GROUT. INDEPENDENT TESTING LAB SHALL PROVIDE CONTINUOUS VISUAL OBSERVATIONS OF GROUTING PROCEDURES, REBAR PLACEMENT, SITE MIXING OF MORTAR, INSTALLATION OF EMBEDED STEEL CONNECTORS, AND GENERAL PLACEMENT OF MASONRY UNITS AND MORTAR JOINTS. INSPECTION REPORTS ARE TO BE GENERATED DAILY BY THE TESTING LAB. INSPECTION SUMMARY REPORTS SHALL BE EMAILED TO THE STRUCTURAL ENGINEER IN ELECTRONIC (PDF) FORMAT.
3. ALL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODES AND THE AMERICAN CONCRETE INSTITUTE (ACI 530-02/ ASCE 5-02/ TMS 402-02). DESIGN IS BASED ON MASONRY COMPRESSIVE STRENGTH (f'm) OF 2,150 PSI.
4. HOT AND COLD WEATHER CONSTRUCTION PROCEDURES SHALL BE UTILIZED AS REQUIRED BY THE SPECIFICATIONS AND ACI 530.1.
5. HOLLOW CONCRETE MASONRY UNITS SHALL BE DOMESTIC LIGHTWEIGHT MOISTURE CONTROLLED TYPE I UNITS, CONFORMING TO ASTM C-90-97.
6. MASONRY UNITS SHALL HAVE A MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 1,900 PSI (NET AREA) WHEN TESTED IN ACCORDANCE WITH ASTM C-140, "METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS" .
7. MORTAR PROPORTIONS FOR REINFORCED MASONRY SHALL BE ESTABLISHED PER ASTM C270 PROPORTION SPECIFICATIONS, TYPE S USING MASONRY CEMENT. FIELD TESTS OF MORTAR SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY IN ACCORDANCE WITH ASTM C780 AT A RATE OF ONE TEST PER 2,000 SF OF WALL SURFACE TO DETERMINE BATCH-TO-BATCH UNIFORMITY OF MORTAR. REFERENCE SPECIFICATIONS FOR NON REINFORCED MASONRY.
8. GROUT FOR ALL REINFORCED HOLLOW MASONRY UNIT WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI WITH A MAXIMUM 3/8" AGGREGATE. A MID RANGE WATER REDUCING AGENT SUCH AS "POLYHEED" (MASTER BUILDERS) SHALL BE USED. SLUMP TO BE BETWEEN 8 AND 11 INCHES. **ALL GROUT SHALL BE PUMPED.** PLACING OF GROUT TO FOLLOW AMERICAN CONCRETE INSTITUTE (ACI) RECOMMENDATIONS REGARDING **LOW & HIGH LIFT GROUTING.** MAXIMUM LIFT OF GROUT SHALL NOT EXCEED 5'-0" UNLESS APPROVED BY THE ENGINEER PRIOR TO START OF GROUTING. GROUT TO BE TESTED BY A QUALIFIED TESTING LABORATORY AT A RATE OF ONE TEST PER 25 CY OF GROUT IN ACCORDANCE WITH ASTM C1019.
9. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ALL BAR REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (MIN). BARS SHALL BE PLACED WITHIN 1/2" (CENTERLINE OF BAR TO FACE OF MASONRY) OF LOCATION SHOWN IN STRUCTURAL PLANS. BARS SHALL BE HELD IN POSITION DURING GROUTING WITH BAR POSITIONERS. POSITIONERS SHALL BE LOCATED AT THE BOTTOM AND TOP OF THE WALL AND AT 8 TO 10 FOOT INTERVALS. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP NOR MORE THAN 8 INCHES.
10. VERTICAL BARS SHALL EXTEND TO THE TOP OF THE PARAPET WALL OR BOND BEAM WHEN A 16" DEEP BEAM IS SPECIFIED. HOOKED DOWELS SHALL BE PROVIDED AT ROOF BOND BEAMS (w/o PARAPETS) LESS THAN 16" DEEP. DOWELS SHALL BE 30" LONG WITH 12" HOOKS.
11. ALL EXTERIOR MASONRY WALLS SHALL BE REINFORCED WITH 9 GA. HOT DIPPED GALVANIZED HORIZONTAL WIRE REINFORCEMENT (LADDER TYPE) EMBEDDED IN MORTAR JOINTS AT 16" O.C. NOMINAL WIDTH OF JOINT REINFORCING SHALL EQUAL WALL THICKNESS. (INTERIOR WALLS MAY BE MILL GALVANIZED). WIRE REINFORCEMENT SHALL CONFORM TO ASTM DESIGNATION A-82, AND SHALL BE LAPPED AT LEAST 8" WITH AT LEAST ONE CROSS WIRE WITHIN THE LAP. JOINT REINFORCING SHALL BE INSTALLED IN THE FIRST AND SECOND MORTAR BED JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS. WIRE REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
12. EXTERIOR WALLS SHALL BE BONDED WITH CONCRETE MASONRY UNITS AT BUILDING CORNERS.
13. ONE GROUTED #5 BAR SHALL BE PROVIDED AROUND THE PERIMETER OF ALL WALL OPENINGS AND AT BUILDING CORNERS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS.
14. NEATLY TOOL INTERIOR AND EXTERIOR JOINTS IN MASONRY TO FORM A SLIGHTLY CONCAVE PROFILE WHEN MORTAR IS THUMBPRINT HARD UNLESS SHOWN OTHERWISE. ALL MORTAR JOINTS SHALL BE TOOLED THE ENTIRE HEIGHT OF WALL.
15. BOND BEAMS SHALL BE REINFORCED WITH TWO CONTINUOUS #5 BARS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS. REINFORCING SHALL BE CONTINUOUS AT ALL CORNERS AND INTERSECTING WALLS. (PROVIDE CORNER BARS). WHERE SIDE WALL AND END WALL BOND BEAMS DO NOT COURSE CONTINUE THE LOWER BOND BEAM AROUND THE BUILDING CORNER TO THE FIRST VERTICAL REINFORCED CELL.
16. CONTROL JOINTS SHALL BE CONSTRUCTED WITH SLOTTED MASONRY UNITS AND FACTORY MOLDED JOINT FILLER. JOINTS SHALL BE CAULKED WITH AN APPROVED MATERIAL. JOINTS SHALL BE PROVIDED AT MAXIMUM SPACING OF 22 FT. AND AT ALL LOCATIONS WHERE COLUMNS ARE PLACED IN CMU CELLS. (EXTERIOR AND INTERIOR WALLS). JOINT LOCATIONS, IF NOT SHOWN ON PLANS, SHALL BE COORDINATED WITH ARCHITECT.
17. CONTROL JOINTS **SHALL NOT** EXTEND THROUGH BOND BEAMS UNLESS INDICATED ON THE STRUCTURAL PLANS.
18. CONTROL JOINTS IN CMU WALLS SHALL NOT BE LOCATED CLOSER THAN 2'-0" FROM AN EDGE OF OPENING WITHOUT REVIEW OF STRUCTURAL ENGINEER.
19. COLUMNS WHICH EXTEND THROUGH BOND BEAMS SHALL BE WRAPPED WITH 2 LAYERS OF 30# BUILDING PAPER. REINFORCING SHALL BE CONTINUOUS PAST COLUMNS WHEN ADEQUATE CLEARANCE EXISTS.
20. LINTELS OVER ALL OPENINGS IN INTERIOR MASONRY PARTITIONS, NOT OTHERWISE COVERED, ARE TO BE OF STANDARD CMU LINTEL BLOCK WITH THICKNESS EQUAL TO WALL THICKNESS. DEPTH SHALL BE 8" FOR OPENINGS UP TO 6'-0", REINFORCED WITH TWO #5's, LOCATED 2-1/2" ABOVE THE BOTTOM EXTERIOR FACE OF THE UNIT.
21. INCLUDE IN BID AN ALLOWANCE OF **2.0 TON** OF REINFORCING BARS TO BE USED AS DIRECTED IN FIELD FOR SPECIAL CONDITIONS AT A COST OF **$2,000.00 PER TON** (LABOR AND GROUT FOR PLACING SAME TO BE INCLUDED). ANY UNUSED ALLOWANCE WILL BE CREDITED TO THE OWNER AT THE END OF THE PROJECT.

STRUCTURAL STEEL

1. TOP OF BEAM/PLATE (TOB OR TOP) IS USED INTERCHANGEABLY ON PLANS. REFERENCE APPLICABLE SECTION FOR CLARIFICATION.
2. STRUCTURAL STEEL WIDE FLANGE MEMBERS SHALL CONFORM TO ASTM SPECIFICATION A 572 AND/OR ASTM A 992 (Fy = 50 KSI) UNLESS OTHERWISE SHOWN OR NOTED. PLATE AND ANGLES MAY BE A36 (Fy = 36 KSI).
3. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM SPECIFICATION A-500, GRADE B (Fy=46 KSI). STEEL PIPE SHALL COMPLY WITH ASTM A53 TYPE E OR S (Fy=35 KSI).
4. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
5. ALL BOLTS SHALL BE 3/4 DIAMETER ASTM A325. WASHERS SHALL BE PROVIDED AT OVERSIZED HOLES AND AT SLOTTED CONNECTIONS AT EXPANSION JOINTS. A325 CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. ANCHOR BOLTS MAY BE ASTM A307 UNLESS NOTED OTHERWISE.
6. REFER TO ARCHITECTURAL & MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING ANCHORS, ETC., FOR THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.

STRUCTURAL STEEL CONTINUED:

7. ALL BEAMS AND COLUMNS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS INDICATED ON PLANS OR APPROVED BY THE ENGINEER IN WRITING.
8. ALL SHOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED AND CERTIFIED TO MAKE THE REQUIRED WELDS IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS (A.W.S. D-1.1).
9. WELDS SHALL BE MADE WITH COVERED MILD STEEL ELECTRODES COMPLYING WITH AWS D1-72 CODE AND SERIES E 70XX.
10. ERECTION CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND BE TRUE AND PLUMB WHEN WELDS ARE MADE.
11. ALL COMPLETE PENETRATION WELDS, BOTH SHOP AND FIELD, SHALL BE TESTED BY A QUALIFIED TESTING LABORATORY UTILIZING ULTRA SONIC TESTING PROCEDURES IN ACCORDANCE WITH A.W.S. D-1.1. ANY WELDS FOUND DEFECTIVE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. ALL X-RAYED WELDS SHALL BE GROUND SMOOTH.
12. THE FABRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.
13. ALL STEEL MEMBERS INCLUDING SECONDARY COMPONENTS, FASTENERS AND ASSOCIATED ACCESSORIES, SHALL BE HOT-DIPPED GALVANIZED.
14. WELDED HEADED STUDS (WHS) SHALL BE "NELSON ANCHORS", OR EQUAL, Fs = 60 KSI, DIAMETER AND LENGTH AS SHOWN ON PLANS. STUDS TO BE WELDED& SHOP TESTED IN ACCORDANCE W/ THE MANUFACTURER'S RECOMMENDATIONS.
15. AFTER ERECTION, PRIME WELDS, ABRASIONS AND SURFACES NOT PRIMED. USE PRIMER CONSISTENT WITH SHOP COAT. GALVANIZED SURFACES (HOT DIPPED OR COLD) SHALL BE CLEANED AND PAINTED WITH "ZRC".
16. FIELD WELDS AND BOLTED CONNECTIONS SHALL BE VISUALLY INSPECTED BY A QUALIFIED INDEPENDENT INSPECTOR. THE INSPECTOR SHALL PROVIDE A WRITTEN REPORT TO THE STRUCTURAL ENGINEER.
17. A SINGLE ELECTRONIC FILE (PDF FORMAT) SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL STEEL COMPONENTS AND SUBMITTED FOR REVIEW BY ENGINEER. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
18. THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT/ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.
19. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR A FRAMING OBSERVATION IMMEDIATELY AFTER ROOF PANELS ARE INSTALLED AND BEFORE INSTALLATION OF THE CEILING.
20. INCLUDE IN BID AN ALLOWANCE FOR **1.0 TON** OF FABRICATED AND PRIMED STRUCTURAL STEEL TO BE USED AS DIRECTED IN THE FIELD FOR SPECIAL CONDITIONS AT A COST OF **$4,000.00 PER TON** (LABOR FOR ERECTING SAME TO BE INCLUDED). ANY UNUSED ALLOWANCE WILL BE CREDITED TO THE OWNER AT THE END OF THE PROJECT.

FASTENERS

1. CAST-IN-PLACE AND POST-INSTALLED ANCHORS SHALL BE PER ANCHOR DIAMETER AND EMBEDMENT DEPTH NOTED ON THE DRAWINGS. POST-INSTALLED ANCHORS SHALL BE UTILIZED ONLY WHERE SPECIFIED.
2. ALL ANCHORS NOTED BELOW SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS, AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.
3. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT NOTED BELOW. SPECIAL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT TESTING LABORATORY PERFORMING QA/QC SERVICES ON PROJECT.
4. EXPANSION BOLTS (EB) IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
    A. KWIK BOLT III (ICC-ES ESR-2302) BY HILTI (CONCRETE)
    B. KWIK BOLT III (ICC-ES-ESR-1385) BY HILTI (MASONRY)
    C. STRONG-BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG-TIE (CONCRETE)
    D. WEDGE-ALL ANCHOR (ICC-ES ESR-1396) BY SIMPSON STRONG-TIE (MASONRY)
5. HEAVY DUTY SLEEVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED OR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. EXPANSION BOLTS (EB) SHALL NOT BE SUBSTITUTED FOR SLEEVE ANCHORS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER. ACCEPTABLE PRODUCTS:
    A. HSL-3 (ICC-ES ESR-1545) BY HILTI (CONCRETE)
6. SCREW ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
    A. KWIK HUS-EZ (ICC-ES ESR-3027) BY HILTI (CONCRETE)
    B. KWIK HUS-EZ (ICC-ES ESR-3056) BY HILTI (MASONRY)
    C. TITEN HD (ICC-ES ESR-2713) BY SIMPSON STRONG-TIE (CONCRETE)
    D. TAPCON ANCHORS (ICC-ES ESR-1671) (MASONRY)
    E. POWERS WEDGE BOLT (ICC-ES ESR-1678) (MASONRY)
7. UNDERCUT ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
    A. HDA (ICC-ES ESR-1546) BY HILTI (CONCRETE)
    B. TORQ-CUT (ICC-ES ESR-2705) BY SIMPSON STRONG-TIE (CONCRETE)
8. POWDER ACTUATED FASTENERS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
    A. X-U (ICC-ES ESR-2269) BY HILTI (CONCRETE/MASONRY/STEEL)
    B.POWDER ACTUATED FASTENERS (ICC-ES ESR-2138) BY SIMPSON STRONG TIE (CONCRETE/MASONRY)
9. ADHESIVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ACCEPTABLE PRODUCTS:
    A. HIT-RE 500-V3 (ICC-ES ESR-3814) BY HILTI (CONCRETE)
    B. HIT-HY 270 (ICC-ES ESR-4143) BY HILTI (MASONRY)
    C. SET-XP (ICC-ES ESR-2508) BY SIMPSON STRONG-TIE (CONCRETE)
    D. SET (ICC-ES ESR-1772) BY SIMPSON STRONG-TIE (MASONRY)
10. J-BOLTS SHALL BE FABRICATED FROM ASTM A36/A307 ROD. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. EXPANSION BOLTS/SLEEVE ANCHORS SHALL NOT BE SUBSTITUTED FOR J-BOLTS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER.
11. HEADED ANCHOR RODS SHALL BE FABRICATED FROM ASTM F1554 MATERIAL, FY=36 KSI
12. SUBSTITUTION REQUESTS FOR PRODUCTS LISTED ABOVE SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS. SUBSTITUTED ANCHORS SHALL HAVE A VALID CURRENT EVALUATION (ICC-ES OR IAPMO-ES) REPORT.
13. REFERENCE STRUCTURAL STEEL NOTES FOR BOLTS CONNECTING STRUCTURAL STEEL COMPONENTS.

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GENERAL STRUCTURAL NOTES

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GENERAL STRUCTURAL NOTES

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS INDEPENDENT OF THE CONTRACTOR, THE ARCHITECT, OR THE ENGINEER, SHALL BE PROVIDED BY A SPECIAL INSPECTOR EMPLOYED BY THE OWNER ACCORDING TO CHAPTER 17 OF THE IBC 2012. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SEND WRITTEN REPORTS TO THE OWNER, THE ARCHITECT, THE ENGINEER AND THE CONTRACTOR. THE REPORTS SHALL INDICATE IF WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF THEIR KNOWLEDGE, IN OR NOT IN CONFORMANCE WITH THE DRAWINGS, SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC 2012.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT		X
INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	X	
VERIFY USE OF REQUIRED DESIGN MIX		X
PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE AT THE TIME OF SAMPLING FRESH CONCRETE FOR MAKING SPECIMENS FOR STRENGTH TESTS PER ACI 318	X	
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
INSPECTION OF PRESTRESSED CONCRETE APPLICATION OF PRESTRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS	X	
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X
ERECTION OF PRECAST CONCRETE MEMBERS		X
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X

REQUIRED LEVEL 1 SPECIAL INSPECTION OF MASONRY CONSTRUCTION (OCCUPANCY CATEGORY I, II, III)

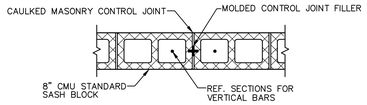
INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
PROPORTIONS OF SITE-PREPARED MORTAR		X
PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		X
LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		X
THE INSPECTION PROGRAM SHALL VERIFY:		
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X
TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION		X
SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT		X
PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
GROUT SPACE IS CLEAN		X
PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		X
CONSTRUCTION OF MORTAR JOINTS		X
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	X	
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	X	
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBITTALS SHALL BE VERIFIED		X

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

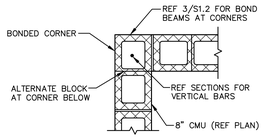
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X
INSPECTION OF HIGH STRENGTH BOLTING		X
INSPECTION OF WELDING:		
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	
MULTIPASS FILLET WELDS	X	
SINGLE-PASS FILLET WELDS		X
FLOOR AND ROOF DECK WELDS		X
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X

REQUIRED VERIFICATION AND INSPECTION OF ANCHORS

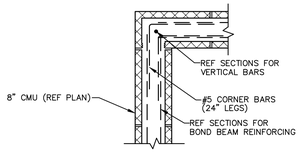
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
CAST-IN-PLACE, POST-INSTALLED, MECHANICAL AND EPOXY SET ANCHORS: AS APPLICABLE, THE INSPECTION PROGRAM SHALL VERIFY THE ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH & DIAMETER AND CLEANOUT, EPOXY MIXING AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE CURRENT ICC-ES EVALUATION REPORT	FREQUENCY OF INSPECTION SHALL BE IN ACCORDANCE WITH THE CURRENT ICC-ES EVALUATION REPORT, OR PER THE SPECIAL INSPECTION REQUIREMENTS OF THE ANCHOR SUBSTRATE, WHICHEVER IS MORE STRINGENT	



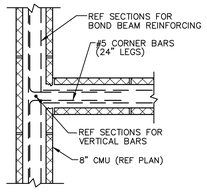
1 TYPICAL CRACK CONTROL JOINT



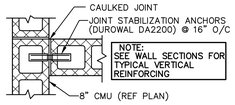
2 BONDED CORNER



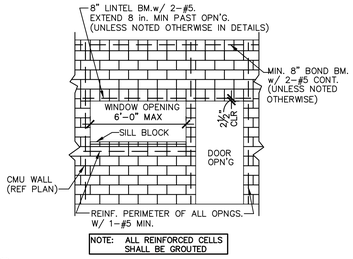
3 BOND BEAM AT EXTERIOR CORNERS



4 TYPICAL BOND BEAM AT INTERSECTING WALL



5 TYPICAL UNBONDED WALL INTERSECTION



6 TYPICAL REINFORCING AT OPENINGS
(NONLOADBEARING INTERIOR WALLS ONLY)

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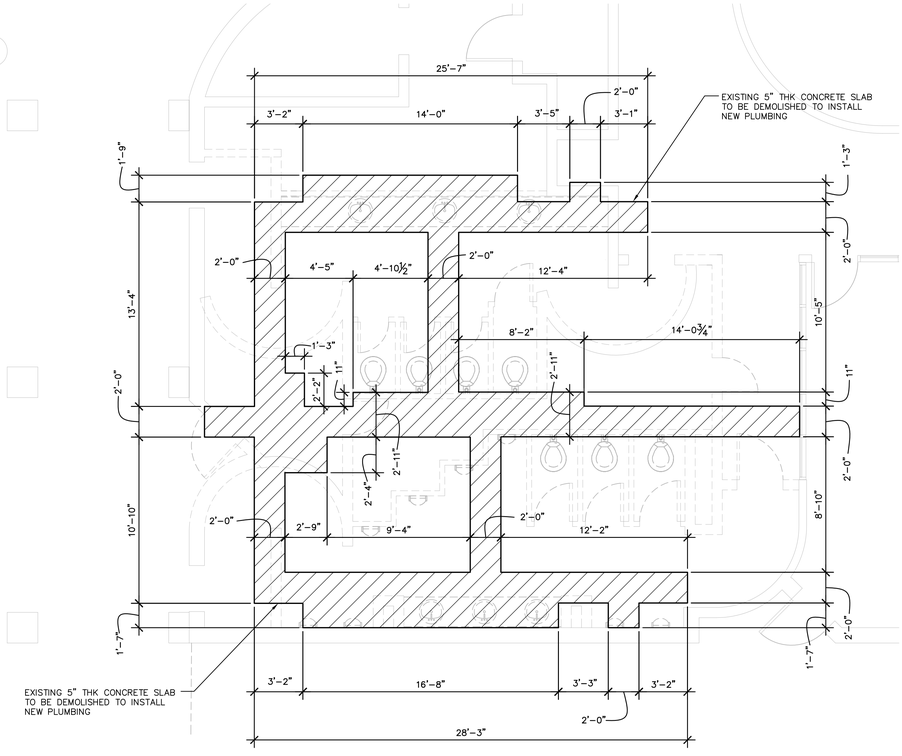

1 FOUNDATION DEMO PLAN

1/4" = 1'-0"

AREA S

N

PLAN NORTH

NOTES:

1. ▨ INDICATES LOCATIONS WHERE EXISTING 5" THICK SLAB (FIELD VERIFY & COORDINATE WITH MEP) WILL BE DEMOLISHED TO INSTALL NEW PLUMBING. CONTRACTOR SHALL COORDINATE ADDITIONAL LOCATIONS OF SLAB OPENINGS WITH UNDER-SLAB UTILITY DRAWINGS. REFERENCE ARCHITECTURAL AND M.E.P. DRAWINGS FOR ADDITIONAL INFORMATION.
2. REFER TO ARCHITECTURAL AND M.E.P. FOR ADDITIONAL DEMOLITION SCOPE.
3. EXISTING SLAB SHALL BE SAW CUT ALONG PERIMETER OF SLAB DEMOLITION AREAS. CONTRACTOR SHALL CUT A MINIMUM OF 1.1/2" DEEP CUT INTO EXISTING SLAB. CONTRACTOR SHALL USE APPROPRIATE SIZE DEMOLITION EQUIPMENT AND TOOLS TO AVOID EXCESSIVE VIBRATIONS IN EXISTING STRUCTURE.
4. CONTRACTOR SHALL INCLUDE ALL NECESSARY LABOR, EQUIPMENT, TOOLS, AND SUPERVISION TO DEMOLISH EXISTING CONCRETE TO EXPOSE UNDER SLAB SUBGRADE. CONCRETE THICKNESS MAY VARY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD. CONTACT ENGINEER IF CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.

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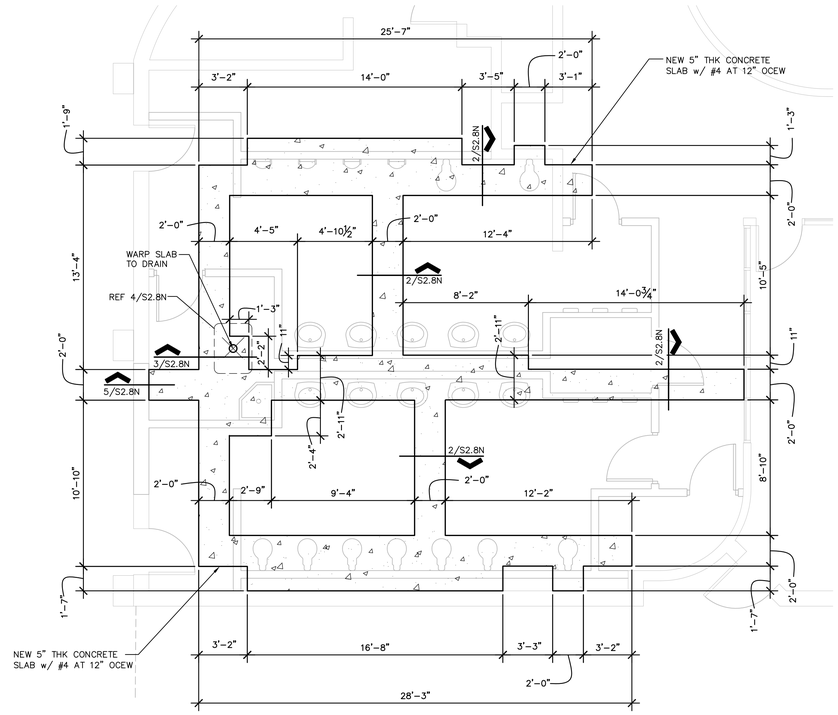

1 FOUNDATION RENOVATION PLAN

1/4" = 1'-0"

AREA S

N

PLAN NORTH

NOTES:

1. 25'-7" INDICATES LIMIT OF NEW 5" THICK SLAB ON GRADE FOUNDATION SLAB.
2. ALL CONDUIT GREATER THAN 1.1/2" IN DIAMETER SHALL BE RECESSED TO PROVIDE 1.1/2" CLEAR DISTANCE BETWEEN SLAB REBAR & CONDUIT.
3. MAINTAIN 2" MINIMUM CLEAR DISTANCE BETWEEN ALL CONDUIT IN SLAB.
4. REFERENCE DETAIL 1/S2.8N AT LOCATIONS WERE NEW CONDUIT & PLUMBING INTERSECT EXISTING INTERIOR GRADE BEAMS.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD. CONTACT ENGINEER IF CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.

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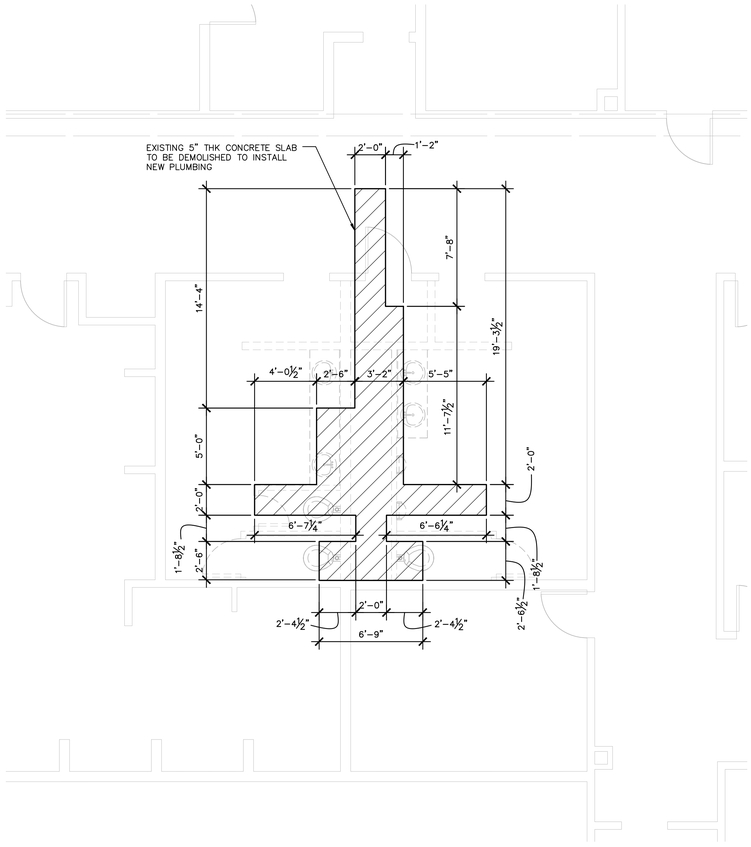

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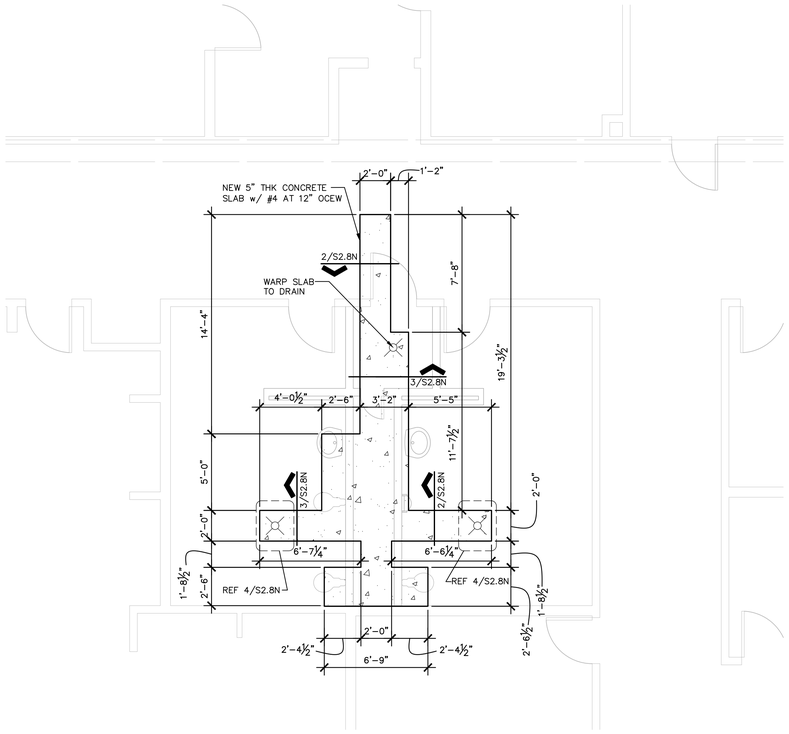

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N

PLAN NORTH

NOTES:

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2. ALL CONDUIT GREATER THAN 1.1/2" IN DIAMETER SHALL BE RECESSED TO PROVIDE 1.1/2" CLEAR DISTANCE BETWEEN SLAB REBAR & CONDUIT.
3. MAINTAIN 2" MINIMUM CLEAR DISTANCE BETWEEN ALL CONDUIT IN SLAB.
4. REFERENCE DETAIL 1/S2.8N AT LOCATIONS WERE NEW CONDUIT & PLUMBING INTERSECT EXISTING INTERIOR GRADE BEAMS.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD. CONTACT ENGINEER IF CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	696-190
Drawing Date:	5-08-19
Drawn:	AV
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Scale:	AS SHOWN

Revisions:

Sheet Title:

FOUNDATION RENOVATION PLAN AREA N

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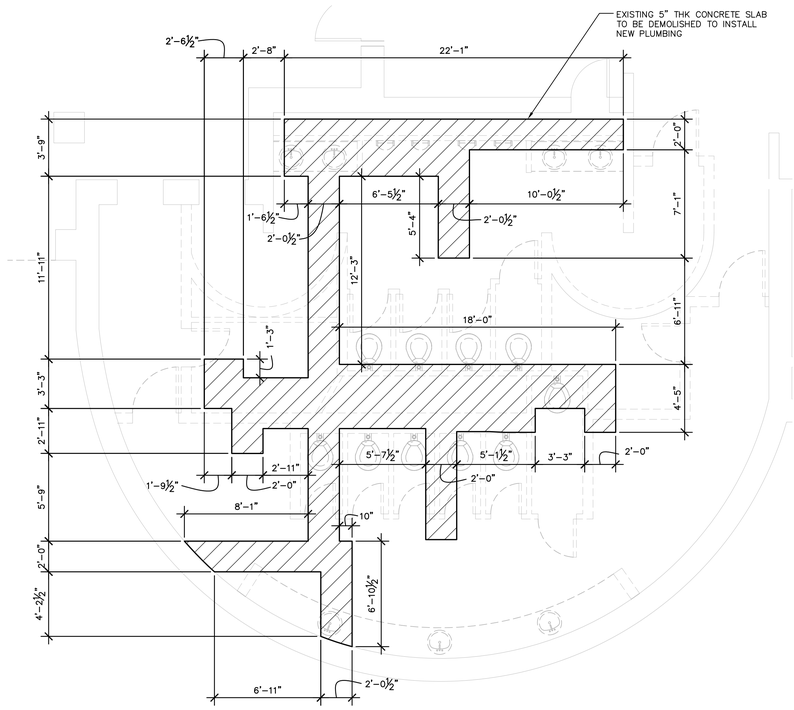

1 FOUNDATION DEMO PLAN

1/4" = 1'-0" AREA P

N
PLAN NORTH

NOTES:

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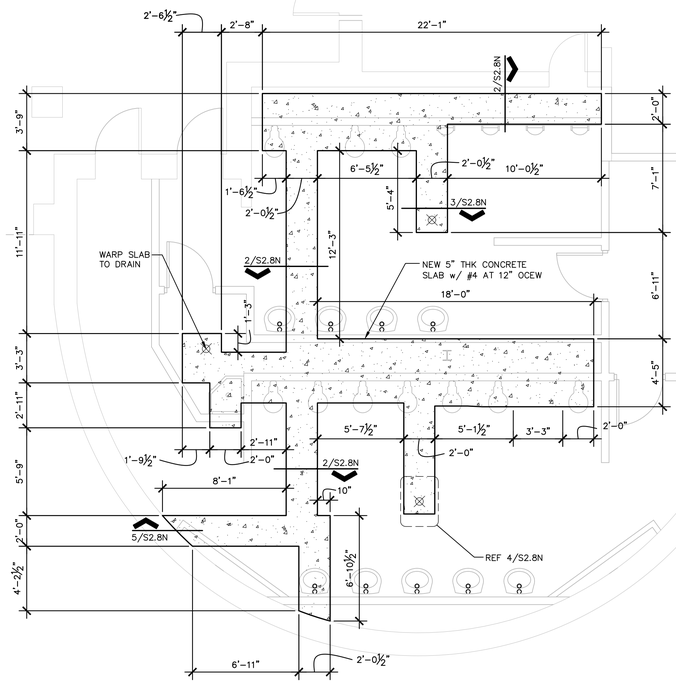

1 FOUNDATION RENOVATION PLAN

1/4" = 1'-0"

AREA P

N

PLAN NORTH

NOTES:

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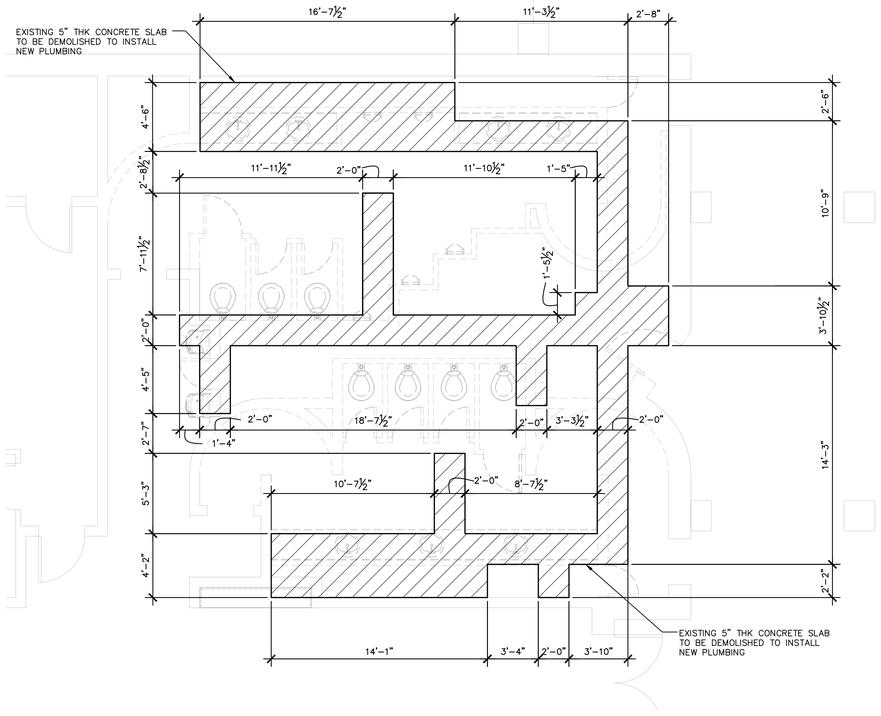

1 FOUNDATION DEMO PLAN

1/4" = 1'-0" AREA V

N
PLAN NORTH

NOTES:

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FOUNDATION DEMO PLAN AREA V

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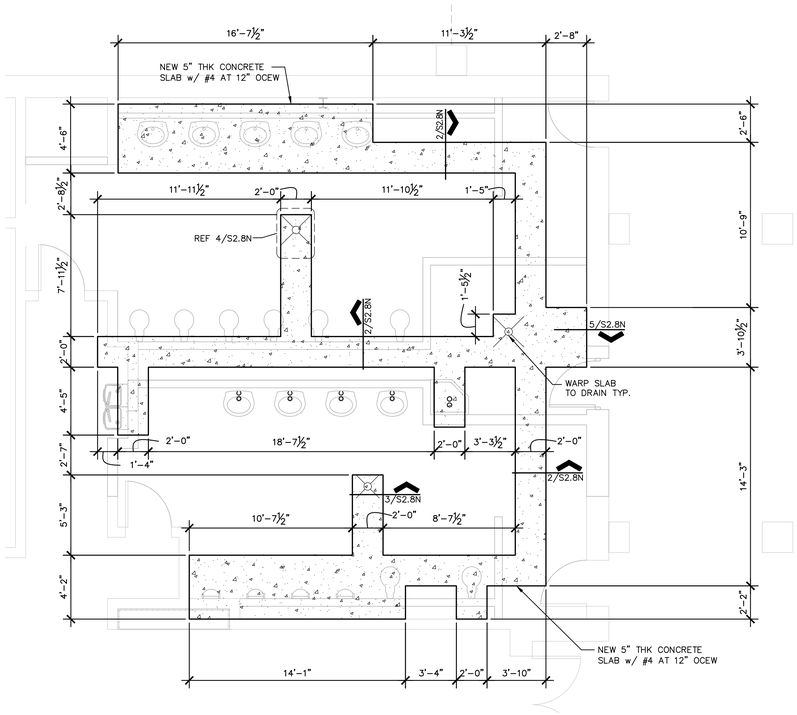

1 FOUNDATION RENOVATION PLAN

1/4" = 1'-0"

AREA V

N

PLAN NORTH

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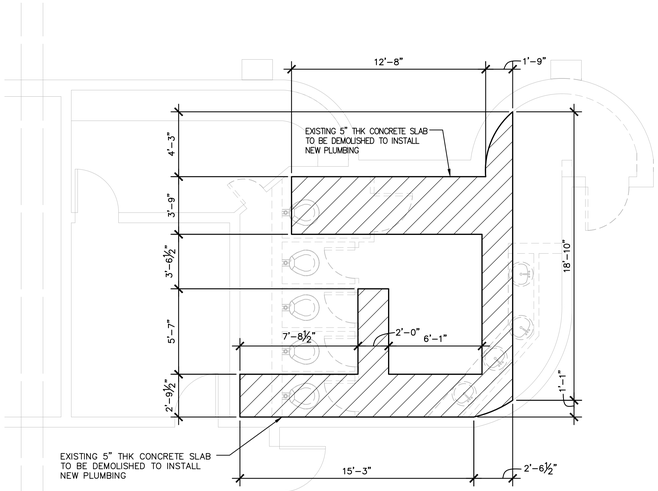

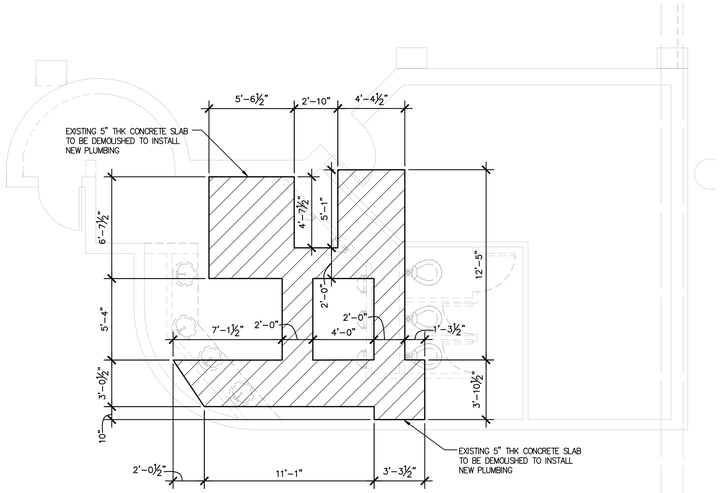

1 FOUNDATION DEMO PLAN

1/4" = 1'-0" AREA E

N
PLAN NORTH

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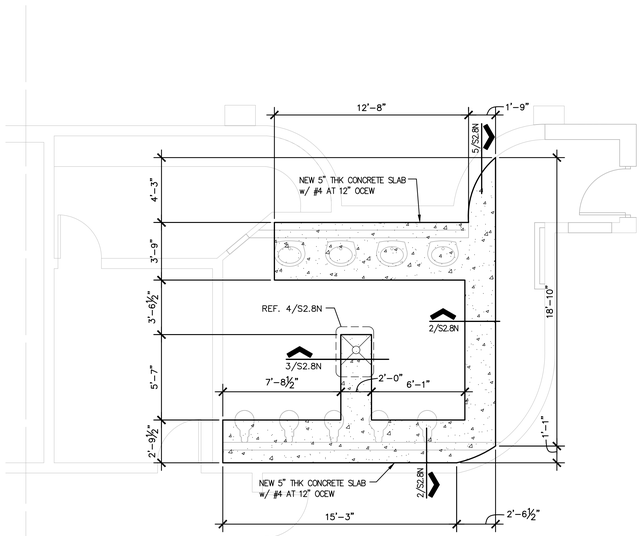

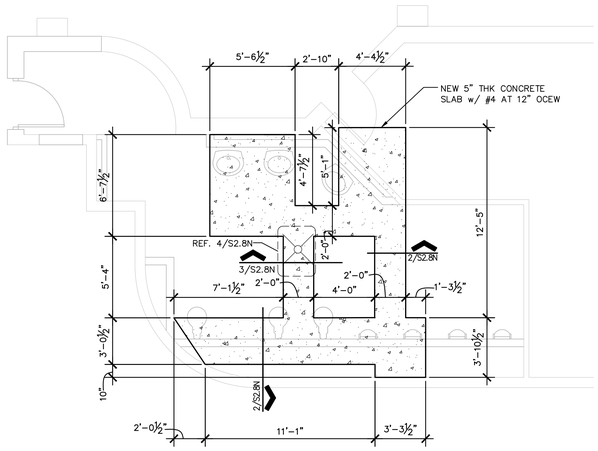

1 FOUNDATION RENOVATION PLAN

1/4" = 1'-0"

AREA E

N

PLAN NORTH

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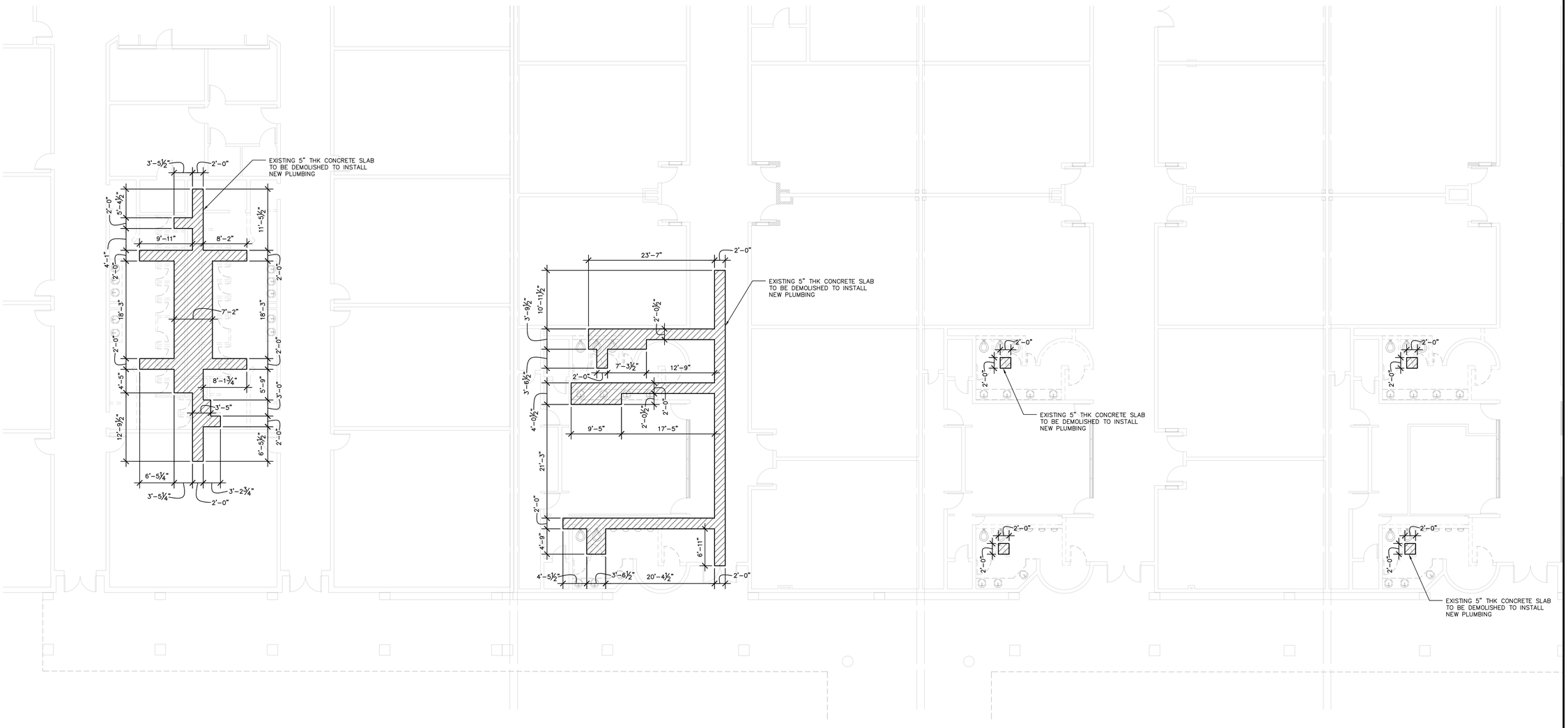

1 FOUNDATION DEMO PLAN

1/8" = 1'-0" AREA A, G, H, J

N
PLAN NORTH

NOTES:

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KEYPLAN

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FOUNDATION DEMO PLAN AREA A, G, H, AND J

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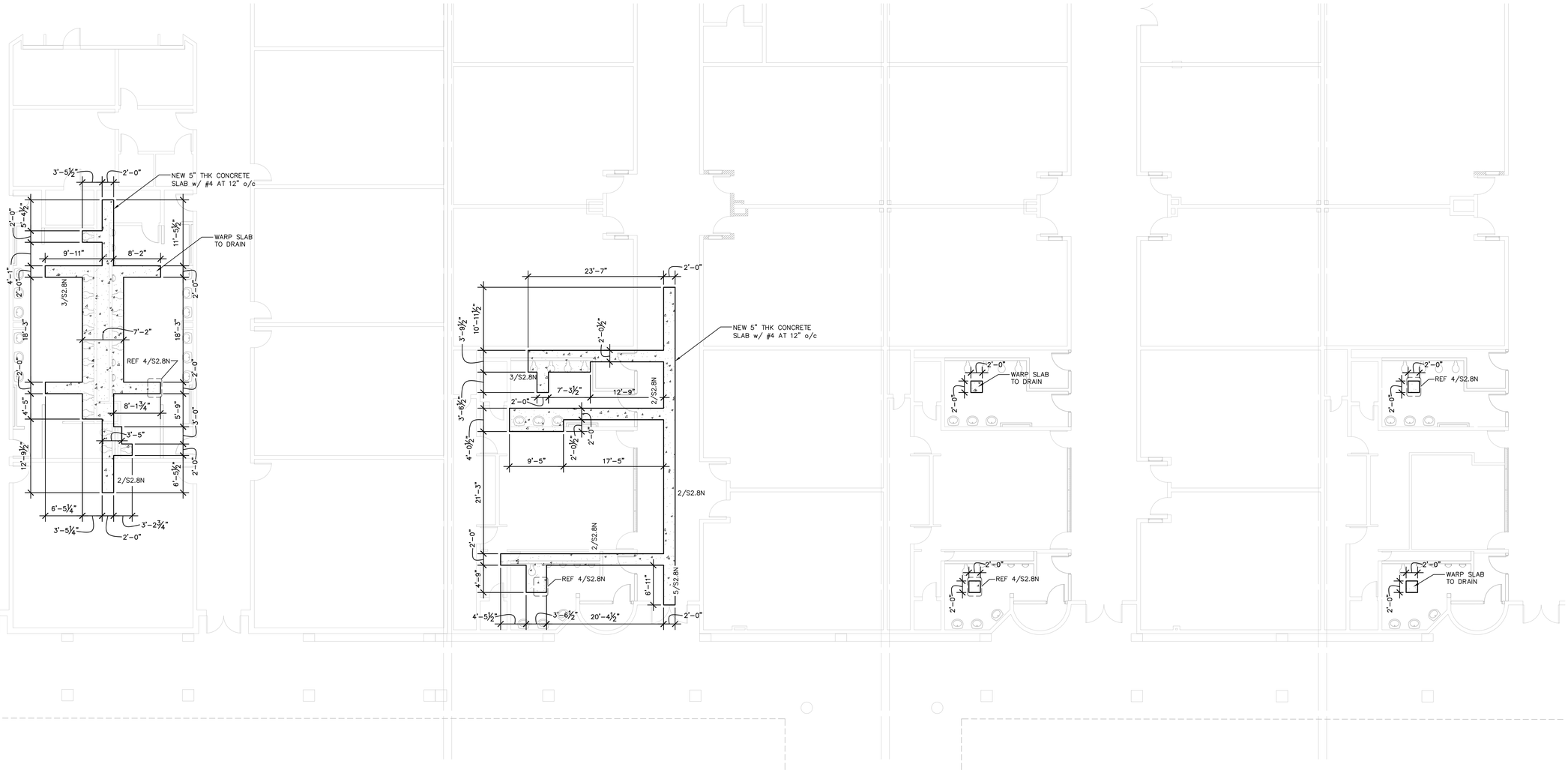

1 FOUNDATION RENOVATION PLAN

1/8" = 1'-0"

AREA A, G, H, J

N

PLAN NORTH

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KEYPLAN

Project Number:	696-190
Drawing Date:	5-08-19
Drawn:	AV
Checked:	BD
Scale:	AS SHOWN

Revisions:

Sheet Title:

FOUNDATION RENOVATION PLAN AREA A, G, H, AND J

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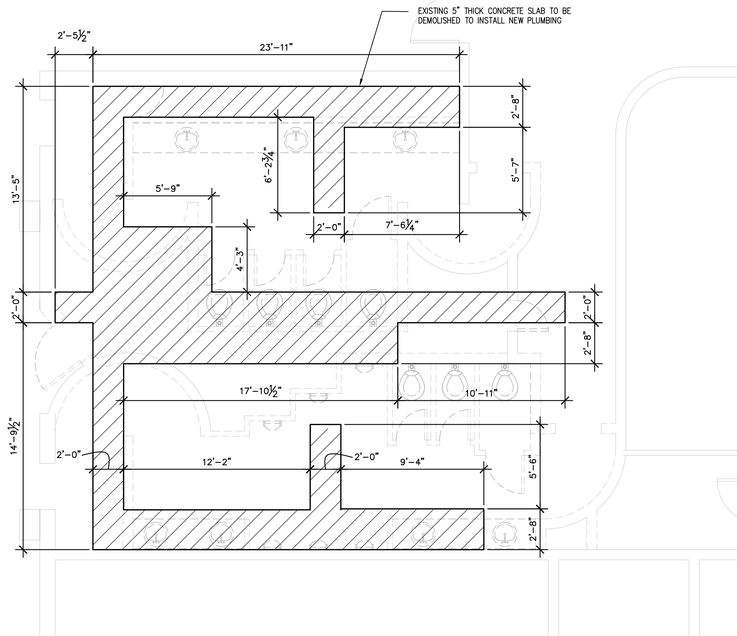

1 FOUNDATION DEMO PLAN

1/4" = 1'-0" AREA K

N
PLAN NORTH

NOTES:

1. ▨ INDICATES LOCATIONS WHERE EXISTING 5" THICK SLAB (FIELD VERIFY & COORDINATE WITH MEP) WILL BE DEMOLISHED TO INSTALL NEW PLUMBING. CONTRACTOR SHALL COORDINATE ADDITIONAL LOCATIONS OF SLAB OPENINGS WITH UNDER-SLAB UTILITY DRAWINGS. REFERENCE ARCHITECTURAL AND M.E.P. DRAWINGS FOR ADDITIONAL INFORMATION.
2. REFER TO ARCHITECTURAL AND M.E.P. FOR ADDITIONAL DEMOLITION SCOPE.
3. EXISTING SLAB SHALL BE SAW CUT ALONG PERIMETER OF SLAB DEMOLITION AREAS. CONTRACTOR SHALL CUT A MINIMUM OF 1.1/2" DEEP CUT INTO EXISTING SLAB. CONTRACTOR SHALL USE APPROPRIATE SIZE DEMOLITION EQUIPMENT AND TOOLS TO AVOID EXCESSIVE VIBRATIONS IN EXISTING STRUCTURE.
4. CONTRACTOR SHALL INCLUDE ALL NECESSARY LABOR, EQUIPMENT, TOOLS, AND SUPERVISION TO DEMOLISH EXISTING CONCRETE TO EXPOSE UNDER SLAB SUBGRADE. CONCRETE THICKNESS MAY VARY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD. CONTACT ENGINEER IF CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.

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5-8-19

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

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FOUNDATION DEMO PLAN AREA K

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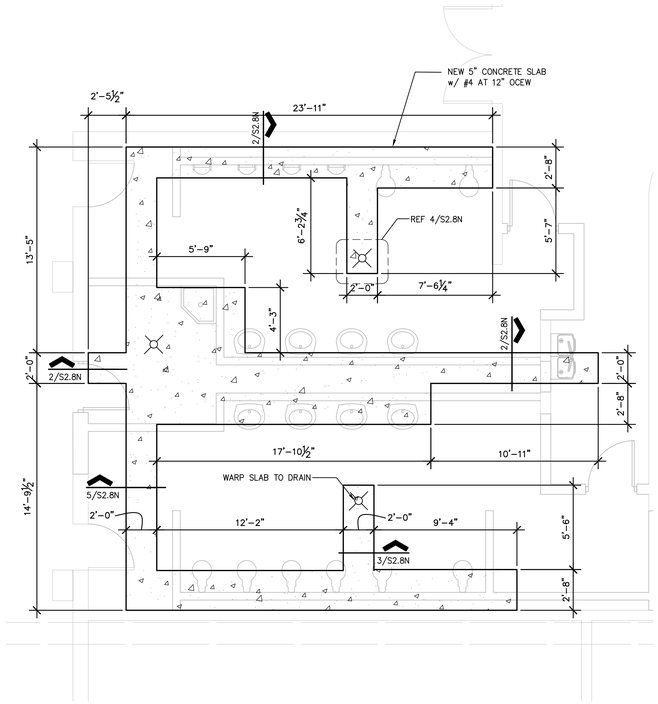

1 FOUNDATION RENOVATION PLAN

1/4" = 1'-0"

AREA K

N

PLAN NORTH

NOTES:

1. INDICATES LIMIT OF NEW 5" THICK SLAB ON GRADE FOUNDATION SLAB.
2. ALL CONDUIT GREATER THAN 1.1/2" IN DIAMETER SHALL BE RECESSED TO PROVIDE 1.1/2" CLEAR DISTANCE BETWEEN SLAB REBAR & CONDUIT.
3. MAINTAIN 2" MINIMUM CLEAR DISTANCE BETWEEN ALL CONDUIT IN SLAB.
4. REFERENCE DETAIL 1/S2.8N AT LOCATIONS WERE NEW CONDUIT & PLUMBING INTERSECT EXISTING INTERIOR GRADE BEAMS.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD. CONTACT ENGINEER IF CONDITIONS VARY FROM THOSE SHOWN ON THE DRAWINGS.

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FOUNDATION RENOVATION PLAN AREA K

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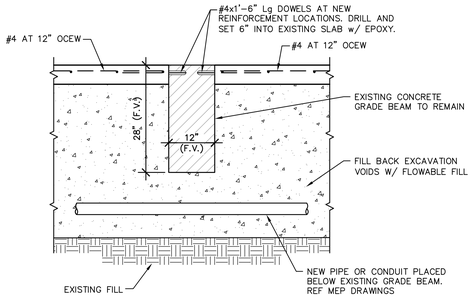
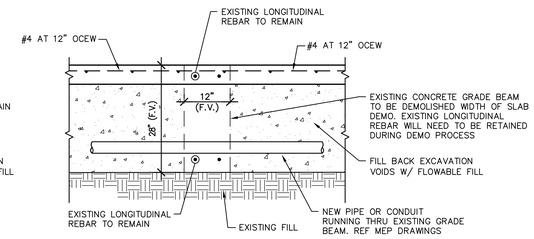


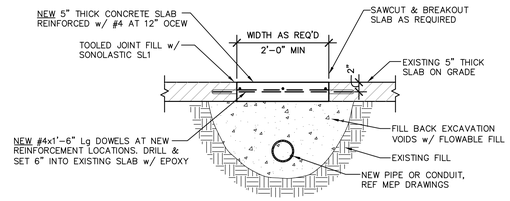
OPTION 1 IF NEW PLUMBING LINES RUN BELOW EXISTING GRADE BEAM



OPTION 2 IF NEW PLUMBING LINES RUN THRU EXISTING GRADE BEAM

1 NOTES:

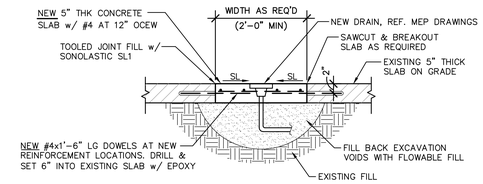
1. CONTRACTOR TO COORDINATE LOCATIONS OF INTERIOR GRADE BEAMS IN THE FIELD.



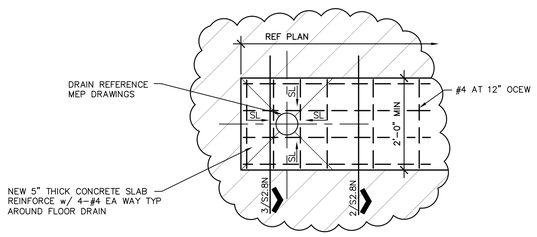
2 TYPICAL UTILITY TRENCH DETAIL

NOTES:

1. COORDINATE UTILITY TRENCH LOCATION WITH MEP DRAWINGS.



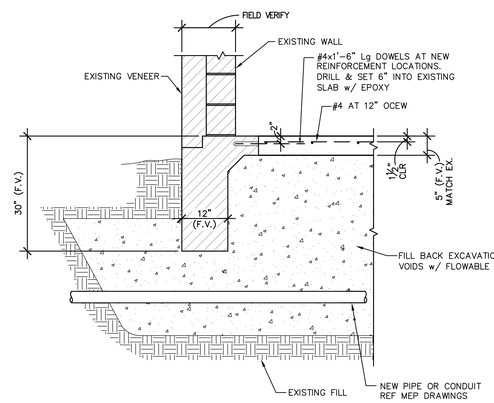
3 TYPICAL DRAIN CROSS SECTION



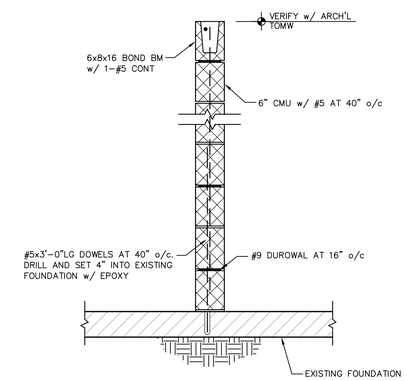
4 TYPICAL DRAIN DETAIL

NOTES:

1. COORDINATE LOCATION w/ MEP DRAWINGS.



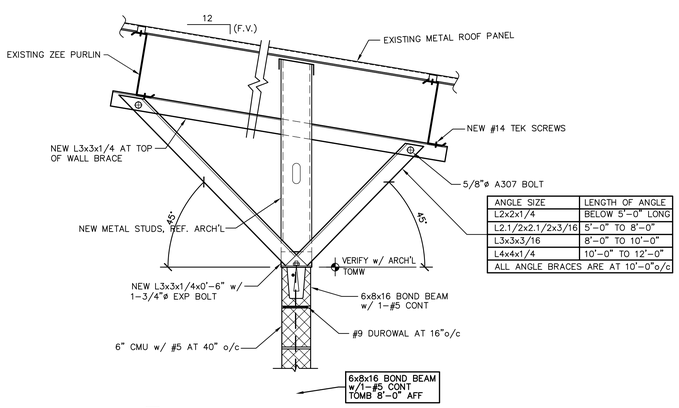
5 TYPICAL UTILITY TRENCH AT EXTERIOR GRADE BEAM



6 NEW TYPICAL INTERIOR 6" CMU WALL

NOTE:

1. IF WALL IS LONGER THAN 20'-0" WITHOUT AN INTERSECTING WALL PROVIDE AN ANGLE BRACE TO EXISTING STRUCTURE. REF DETAIL 7/S2.8N & 8/S2.8.
2. COORDINATE LOCATION AND LIMIT OF NEW INTERIOR MASONRY WALL WITH ARCHITECT.

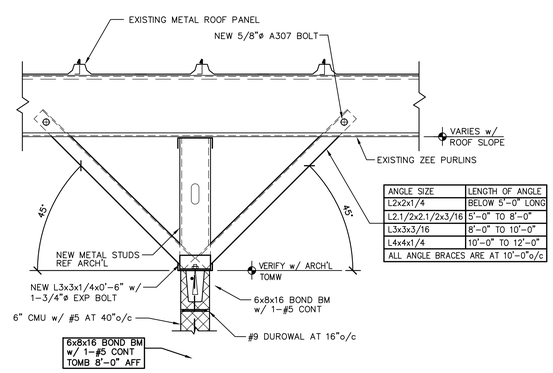


ANGLE SIZE	LENGTH OF ANGLE
L2x2x1/4	BELOW 5'-0" LONG
L2.1/2x2.1/2x3/16	5'-0" TO 8'-0"
L3x3x3/16	8'-0" TO 10'-0"
L4x4x1/4	10'-0" TO 12'-0"
ALL ANGLE BRACES ARE AT 10'-0"o/c	

7 TYPICAL CMU WALL BRACE PERPENDICULAR TO EXISTING PURLINS

PURLINS PARALLEL TO WALL (MAXIMUM SPACING OF BRACE 10'-0" o/c MAX)

ORIENT BRACE TOWARDS AREAS WITH CEILINGS SO THAT THEY ARE CONCEALED FROM VIEW



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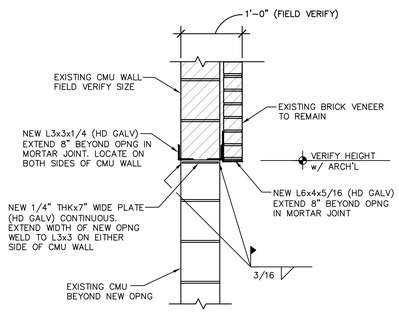
L2.1/2x2.1/2x3/16	5'-0" TO 8'-0"
L3x3x3/16	8'-0" TO 10'-0"
L4x4x1/4	10'-0" TO 12'-0"
ALL ANGLE BRACES ARE AT 10'-0"o/c	

8 TYPICAL CMU WALL BRACE PARALLEL EXISTING PURLINS

PURLINS PERPENDICULAR TO WALL (MAXIMUM SPACING OF BRACE 10'-0" o/c)

ORIENT BRACE TOWARDS AREAS WITH CEILINGS SO THAT THEY ARE CONCEALED FROM VIEW



9 TYPICAL LINTEL SUPPORT FRAMING AT NEW OPENINGS IN EXISTING MASONRY WALLS

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KEYPLAN

Project Number:	696-190
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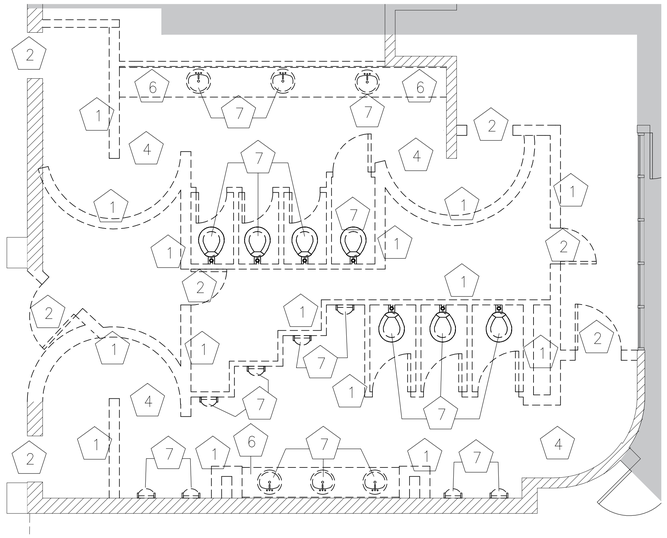
Revisions:

Sheet Title:

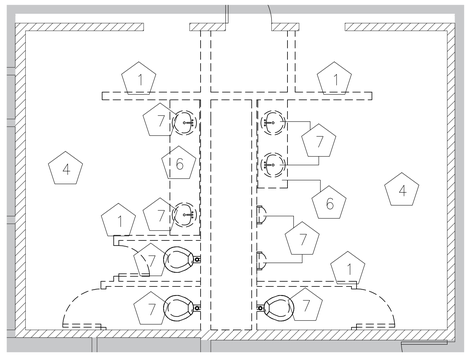
SLAB REPAIR DETAILS

S2.8N



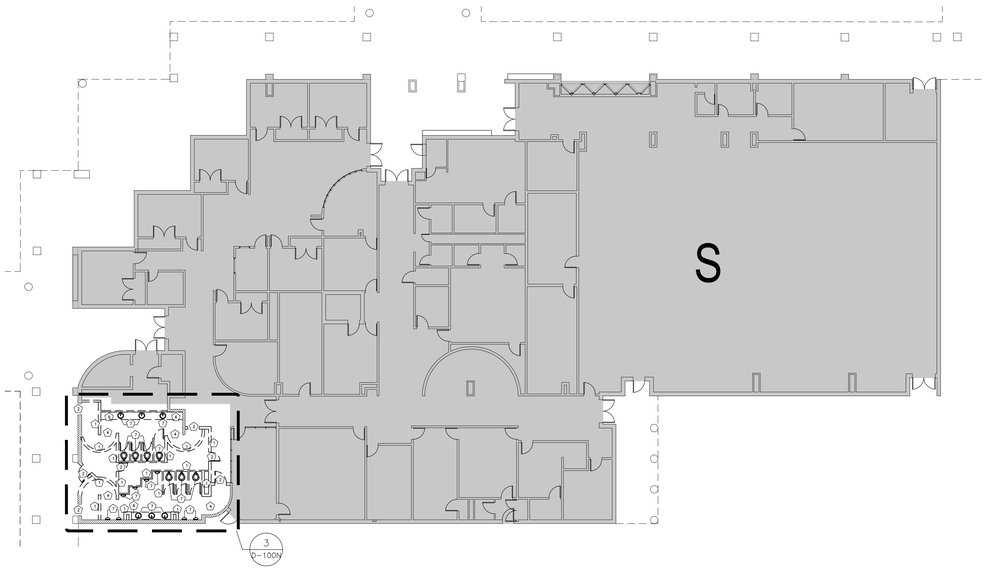
N

3 DEMOLITION PLAN – ENLARGED PLAN
1/4" = 1'-0"



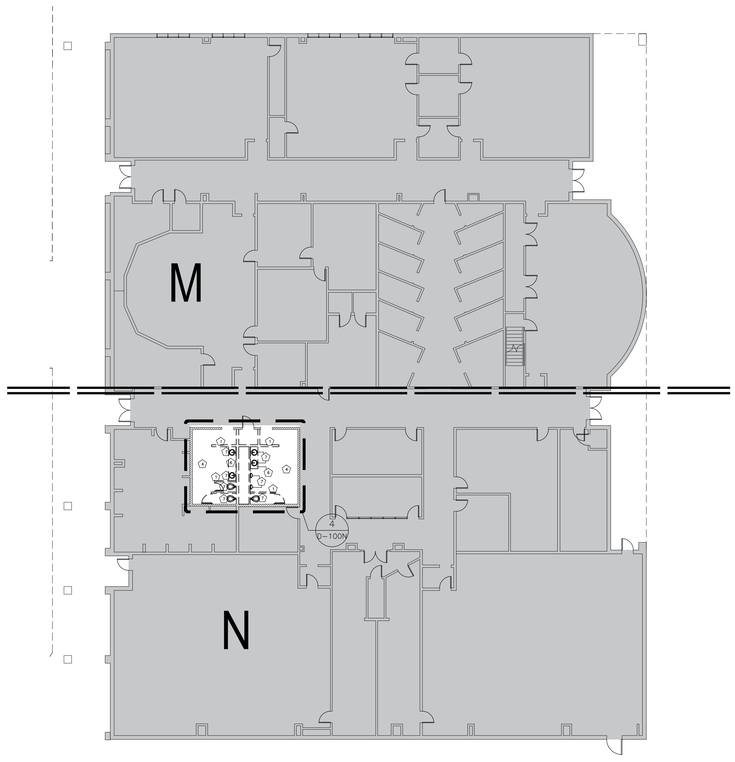
N

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



N

1 DEMOLITION PLAN – BUILDING S
1/16" = 1'-0"



N

2 DEMOLITION PLAN – BUILDING N
1/16" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE EXISTING WALL OR PORTION OF WALL TO CREATE NEW OPENING; REFER TO PROPOSED FLOOR PLAN FOR EXTENTS OF NEW WALLS AND OPENINGS.
2. REMOVE EXISTING DOOR & FRAME. PATCH AND PREPARE AREA TO RECEIVE NEW FRAME AND DOOR.
3. ITEM NOT USED
4. REMOVE EXISTING FLOORING & FLOOR BASE. PREPARE AREA TO RECEIVE NEW FLOORING; REFER TO ROOM FINISH SCHEDULE. (FIELD VERIFICATION REQUIRED).
5. REMOVE EXISTING CEILING. PREPARE AREA TO RECEIVE NEW CEILING, REFER TO ROOM FINISH SCHEDULE. REFER TO MEP DRAWINGS FOR ITEMS SUCH AS LIGHT FIXTURES, HVAC, ETC.
6. REMOVE EXISTING COUNTERS.
7. REMOVE EXISTING PLUMBING FIXTURES, ITEMS & ACCESSORIES.
8. EXISTING DOOR TO REMAIN; PROVIDE NEW HARDWARE.

GENERAL DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. ANY DISCREPANCIES OR AMBIGUOUS ITEMS MUST BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. REFER TO CIVIL, STRUCTURAL, & MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION NOTES.
3. THE OWNER HAS FIRST RIGHT OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THIS CONTRACT SHALL NOT BE REUSED IN THE NEW CONSTRUCTION, UNLESS OTHERWISE NOTED. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH FED., STATE, & LOCAL REGULATIONS.
4. FIELD VERIFY LOCATIONS OF ALL EXISTING EXTERIOR PUBLIC ADDRESS SPEAKERS, INTERCOM SPEAKERS, PLUGS, SWITCHES, HOSE BIBS, LIGHTS AND CONTROLS PRIOR TO DEMOLITION. THESE SYSTEMS MUST BE PUT BACK IN FUNCTIONING ORDER.
5. IF ABATEMENT REQUIRED, ANY NEW OPENINGS IN AN AREA-- COORDINATE WITH THE TESTING LAB.

STRUCTURAL INTEGRITY:

6. PROVIDE SUPPORT FOR THE EXISTING STRUCTURE BEFORE PERFORMING ANY ALTERATION THERETO.
7. UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS: NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, SHALL RECEIVE LOOSE STEEL LINTELS, MINIMUM 8" BEARING.

CUTTING AND PATCHING:

9. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY EXISTING FINISHES, INTERIOR OR EXTERIOR, WHICH ARE DAMAGED DURING REMOVAL OPERATIONS OR WORK PERFORMED UNDER THIS CONTRACT SHALL BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
10. PLUMBING LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY. PATCH WALLS AND FLOORS TO MATCH EXISTING CONDITIONS. REFER TO THE PLUMBING PLANS.
11. WHERE EXISTING FLOOR, CEILING, OR WALL FINISHES ARE TO BE REPLACED WITH NEW FINISHINGS, EXISTING SURFACES SHALL BE STRIPPED CLEAN OF ALL EXISTING COVERINGS & MADE READY TO RECIEVE NEW FINISHINGS.

    IN ACCORDANCE WITH FINISH MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS INCLUDING LEVEL 4 PLUMB TOLERANCES. REFER TO ROOM FINISH SCHEDULE SHEETS FOR TYPES & LOCATIONS OF NEW FINISHES.
12. ALL FLOOR FINISHES BEING REPLACED, SHALL BE COMPLETELY REMOVED & THE FLOOR CLEANED & PROPERLY PREPARED PRIOR TO INSTALLATION OF NEW FINISH MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL FLOORS THAT RECEIVE NEW FINISHES PRIOR TO BID. FLOORS SHALL BE PATCHED, FILLED, & STRIPPED AS REQ'D. TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF ALL BURRS OR ADHESIVE & SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL. ANY UNDER CUTTING OF DOORS REQ'D. TO ACCOMODATE NEW FLOOR FINISHES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. WHERE NEW CONCRETE TOPPING IS TO BE POURED OVER AN EXISTING CONCRETE SLAB: BUSH HAMMER THE EXISTING CONCRETE FINISH FOR BETTER BOND.
14. WHERE EXISTING MASONRY ABUTS NEW MASONRY; EXISTING MASONRY SHALL BE TOOTHED TO RECEIVE NEW MASONRY (U.O.N.). NEW MASONRY SHALL MATCH EXISTING COURSING (TYP.)
15. WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED: PROVIDE A FINISHED EDGE BY TOOTHING IN NEW MASONRY TO MATCH EXISTING.(U.O.N.)
16. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL NOTES.
17. REFER TO ABATEMENT REPORT & PLAN FOR NEW OPENINGS OR WALLS PRIOR TO DEMOLITION.

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MEP:
DBR ENGINEERING

REGISTERED ARCHITECT
RICHARD D. GIGNAC
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5295
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EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

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PSJA ISD

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

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ACAD File:	DEMO PLAN

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Sheet Title:

BUILDING S & BUILDING N DEMO PLAN

D-100N

May 08, 2019 – 5:13pm User: cquezada
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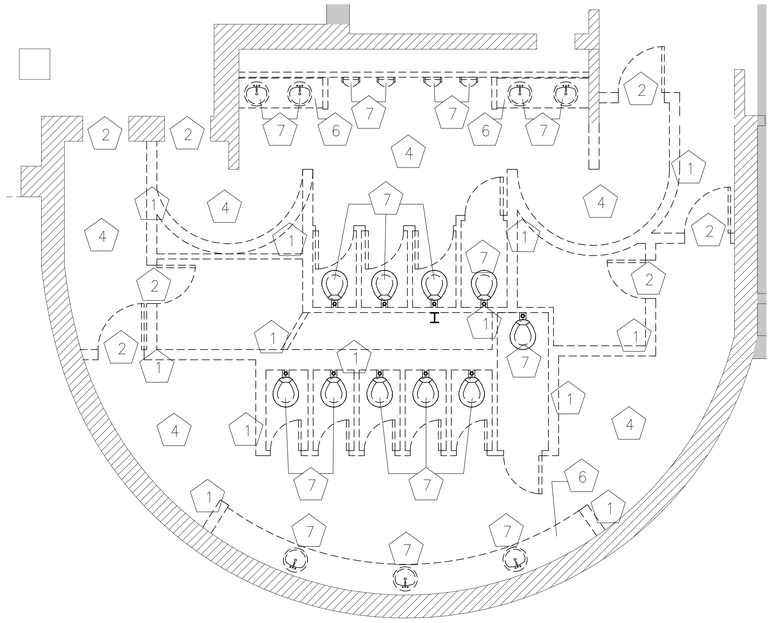
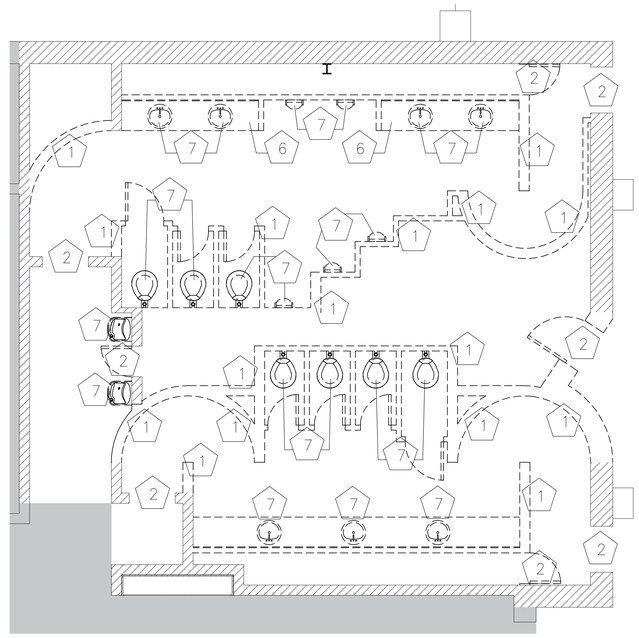
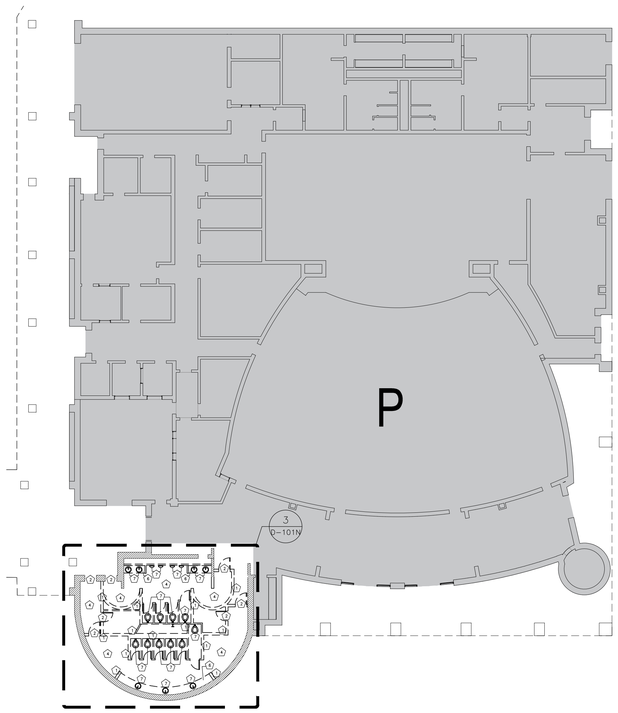


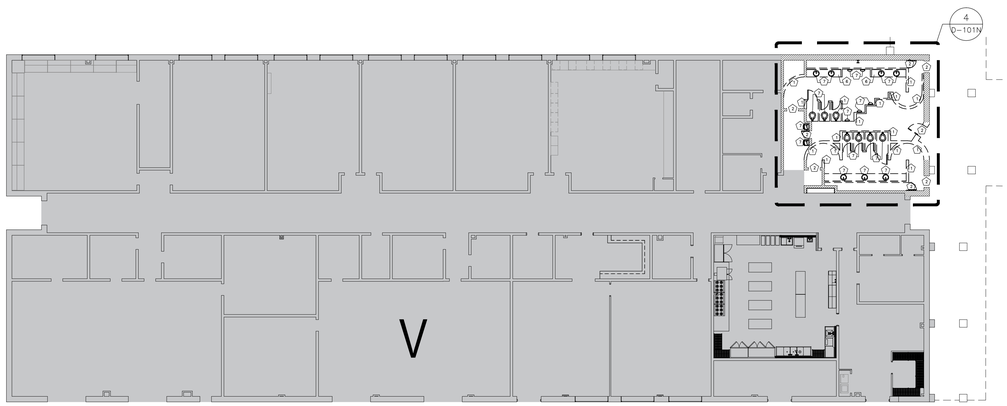
3 DEMOLITION PLAN – ENLARGED PLAN
1/4" = 1'-0"



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



1 DEMOLITION PLAN – BUILDING P
1/16" = 1'-0"



2 DEMOLITION PLAN – BUILDING V
1/16" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE EXISTING WALL OR PORTION OF WALL TO CREATE NEW OPENING; REFER TO PROPOSED FLOOR PLAN FOR EXTENTS OF NEW WALLS AND OPENINGS.
2. REMOVE EXISTING DOOR & FRAME. PATCH AND PREPARE AREA TO RECEIVE NEW FRAME AND DOOR.
3. ITEM NOT USED
4. REMOVE EXISTING FLOORING & FLOOR BASE. PREPARE AREA TO RECEIVE NEW FLOORING; REFER TO ROOM FINISH SCHEDULE. (FIELD VERIFICATION REQUIRED).
5. REMOVE EXISTING CEILING. PREPARE AREA TO RECEIVE NEW CEILING, REFER TO ROOM FINISH SCHEDULE. REFER TO MEP DRAWINGS FOR ITEMS SUCH AS LIGHT FIXTURES, HVAC, ETC.
6. REMOVE EXISTING COUNTERS.
7. REMOVE EXISTING PLUMBING FIXTURES, ITEMS & ACCESSORIES.
8. EXISTING DOOR TO REMAIN; PROVIDE NEW HARDWARE.

GENERAL DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. ANY DISCREPANCIES OR AMBIGUOUS ITEMS MUST BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. REFER TO CIVIL, STRUCTURAL, & MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION NOTES.
3. THE OWNER HAS FIRST RIGHT OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THIS CONTRACT SHALL NOT BE REUSED IN THE NEW CONSTRUCTION, UNLESS OTHERWISE NOTED. REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH FED., STATE, & LOCAL REGULATIONS.
4. FIELD VERIFY LOCATIONS OF ALL EXISTING EXTERIOR PUBLIC ADDRESS SPEAKERS, INTERCOM SPEAKERS, PLUGS, SWITCHES, HOSE BIBS, LIGHTS AND CONTROLS PRIOR TO DEMOLITION. THESE SYSTEMS MUST BE PUT BACK IN FUNCTIONING ORDER.
5. IF ABATEMENT REQUIRED, ANY NEW OPENINGS IN AN AREA-- COORDINATE WITH THE TESTING LAB.

STRUCTURAL INTEGRITY:

6. PROVIDE SUPPORT FOR THE EXISTING STRUCTURE BEFORE PERFORMING ANY ALTERATION THERETO.
7. UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS: NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, SHALL RECEIVE LOOSE STEEL LINTELS, MINIMUM 8" BEARING.

CUTTING AND PATCHING:

9. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY EXISTING PORTION OF THE CONSTRUCTION WORK THAT HAS BEEN DAMAGED OR REMOVED BY THE CONTRACTOR, SHALL BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
8. BUILDING MECHANICAL LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY. PATCH WALLS AND FLOORS TO MATCH EXISTING CONDITIONS. REFER TO THE PLUMBING PLANS.
10. PLUMBING LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY. PATCH WALLS AND FLOORS TO MATCH EXISTING CONDITIONS. REFER TO THE PLUMBING PLANS.
11. WHERE EXISTING FLOOR, CEILING, OR WALL FINISHES ARE TO BE REPLACED WITH NEW FINISHINGS, EXISTING SURFACES SHALL BE STRIPPED CLEAN OF ALL EXISTING COVERINGS & MADE READY TO RECIEVE NEW FINISHINGS.
   IN ACCORDANCE WITH FINISH MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS INCLUDING LEVEL 4 PLUMB TOLERANCES. REFER TO ROOM FINISH SCHEDULE SHEETS FOR TYPES & LOCATIONS OF NEW FINISHES.
12. ALL FLOOR FINISHES BEING REPLACED, SHALL BE COMPLETELY REMOVED & THE FLOOR CLEANED & PROPERLY PREPARED PRIOR TO INSTALLATION OF NEW FINISH MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL FLOORS THAT RECEIVE NEW FINISHES PRIOR TO BID. FLOORS SHALL BE PATCHED, FILLED, & STRIPPED AS REQ'D. TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF ALL BURRS OR ADHESIVE & SUITABLE FOR APPLICATION OF NEW FINISH MATERIAL. ANY UNDER CUTTING OF DOORS REQ'D. TO ACCOMODATE NEW FLOOR FINISHES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. WHERE NEW CONCRETE TOPPING IS TO BE POURED OVER AN EXISTING CONCRETE SLAB: BUSH HAMMER THE EXISTING CONCRETE FINISH FOR BETTER BOND.
14. WHERE EXISTING MASONRY ABUTS NEW MASONRY; EXISTING MASONRY SHALL BE TOOTHED TO RECEIVE NEW MASONRY (U.O.N.). NEW MASONRY SHALL MATCH EXISTING COURSING (TYP.)
15. WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED: PROVIDE A FINISHED EDGE, BY TOOTHING IN NEW MASONRY TO MATCH EXISTING.(U.O.N.)
16. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL NOTES.
17. REFER TO ABATEMENT REPORT & PLAN FOR NEW OPENINGS OR WALLS PRIOR TO DEMOLITION.

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STRUCTURAL:
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MEP:
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REGISTERED ARCHITECT
JAMES D. MARTIN
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STATE OF TEXAS

EXPIRATION DATE
12/30/2019

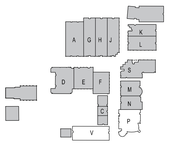
SIGNED: 05/10/2019

PSJA COLLEGE READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING P & BUILDING V DEMO PLAN

D-101N

May 08, 2019 – 5:14pm User: cquezada
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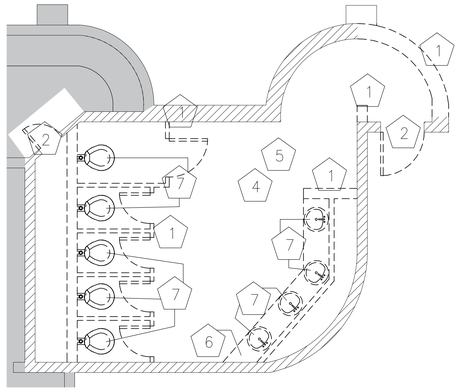

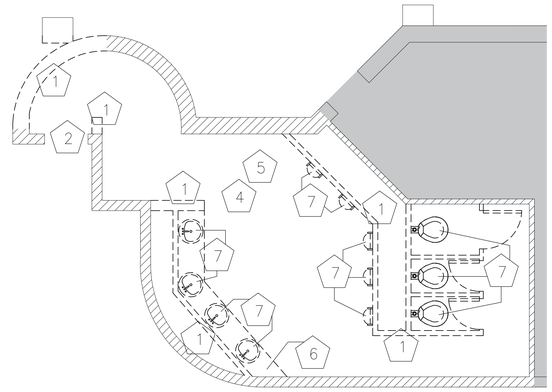

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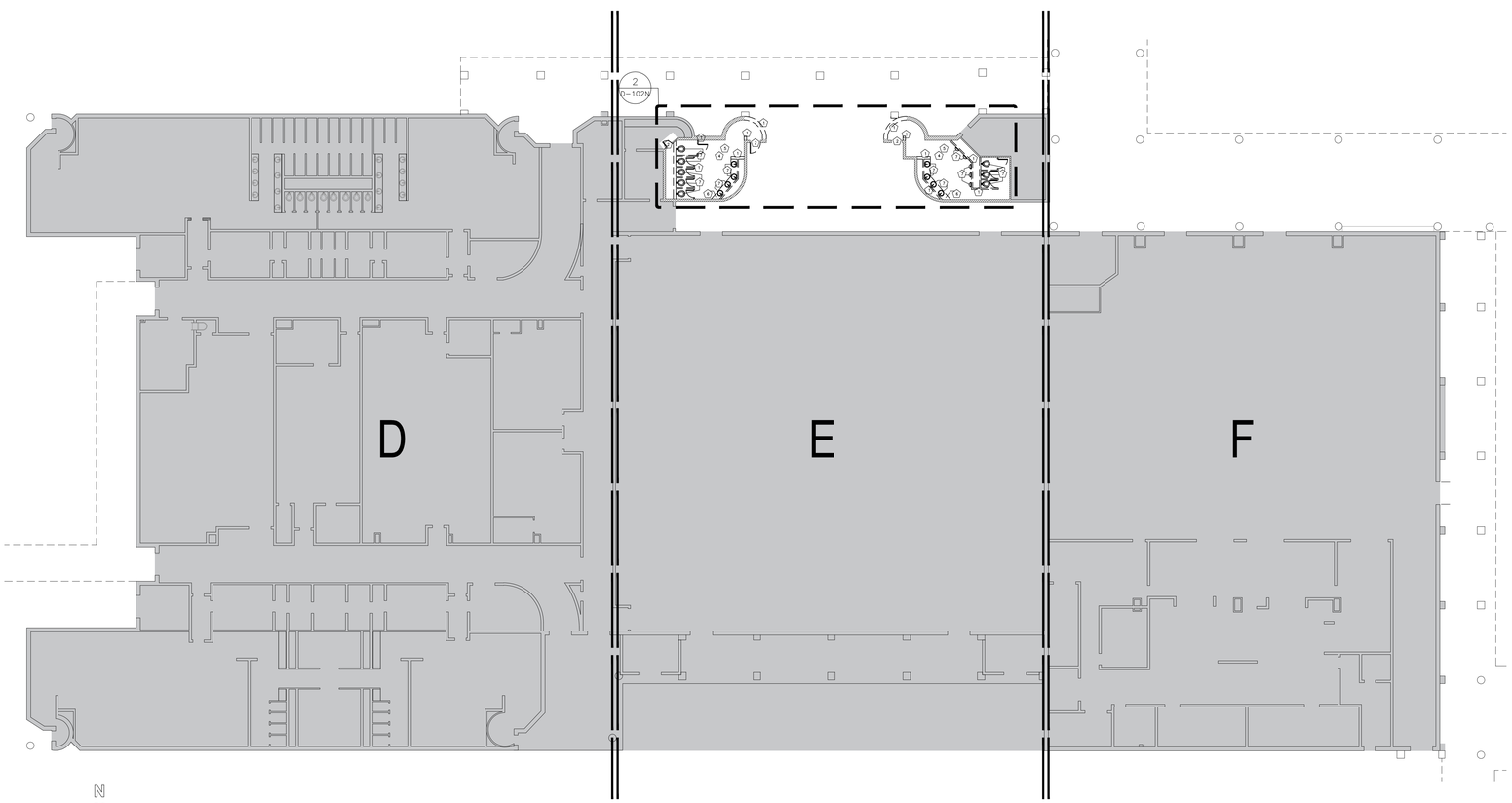
2 DEMOLITION PLAN – ENLARGED PLAN
1/4" = 1'-0"



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1 DEMOLITION PLAN – BUILDING E
1/16" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE EXISTING WALL OR PORTION OF WALL TO CREATE NEW OPENING; REFER TO PROPOSED FLOOR PLAN FOR EXTENTS OF NEW WALLS AND OPENINGS.
2. REMOVE EXISTING DOOR & FRAME. PATCH AND PREPARE AREA TO RECEIVE NEW FRAME AND DOOR.
3. ITEM NOT USED
4. REMOVE EXISTING FLOORING & FLOOR BASE. PREPARE AREA TO RECEIVE NEW FLOORING; REFER TO ROOM FINISH SCHEDULE. (FIELD VERIFICATION REQUIRED).
5. REMOVE EXISTING CEILING. PREPARE AREA TO RECEIVE NEW CEILING, REFER TO ROOM FINISH SCHEDULE. REFER TO MEP DRAWINGS FOR ITEMS SUCH AS LIGHT FIXTURES, HVAC, ETC.
6. REMOVE EXISTING COUNTERS.
7. REMOVE EXISTING PLUMBING FIXTURES, ITEMS & ACCESSORIES.
8. EXISTING DOOR TO REMAIN; PROVIDE NEW HARDWARE.

GENERAL DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. ANY DISCREPANCIES OR AMBIGUOUS ITEMS MUST BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
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CUTTING AND PATCHING:

8. ADJACENT UTILITIES TO BE REMOVED, CAPPED AND PROTECTED AT PERIMETER OF WORK. PROVIDE ACCESS PANELS AT CEILINGS AND WALLS AS REQUIRED.
9. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BE CUT OR DRILLED TO ENSURE NO DAMAGE TO ANY EXISTING PERMANENT WORK TO REMAIN. PATCH AND REPAIR FLOORS, WALLS AND CEILINGS THAT ARE TO BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
10. PLUMBING LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY. PATCH WALLS AND FLOORS TO MATCH EXISTING CONDITIONS. REFER TO THE PLUMBING PLANS.
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RICHARD D. GIGNAC
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EXPIRATION DATE
12/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE READY.CONNECTED.COMPLETE

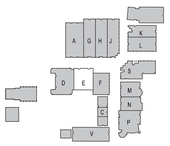
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING E DEMO PLAN

D-102N

May 08, 2019 – 5:17pm User: cquezada
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N

1 DEMOLITION PLAN – BUILDING A–G–H–J
1/16" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE EXISTING WALL OR PORTION OF WALL TO CREATE NEW OPENING; REFER TO PROPOSED FLOOR PLAN FOR EXTENTS OF NEW WALLS AND OPENINGS.
2. REMOVE EXISTING DOOR & FRAME. PATCH AND PREPARE AREA TO RECEIVE NEW FRAME AND DOOR.
3. ITEM NOT USED
4. REMOVE EXISTING FLOORING & FLOOR BASE. PREPARE AREA TO RECEIVE NEW FLOORING; REFER TO ROOM FINISH SCHEDULE. (FIELD VERIFICATION REQUIRED).
5. REMOVE EXISTING CEILING. PREPARE AREA TO RECEIVE NEW CEILING, REFER TO ROOM FINISH SCHEDULE. REFER TO MEP DRAWINGS FOR ITEMS SUCH AS LIGHT FIXTURES, HVAC, ETC.
6. REMOVE EXISTING COUNTERS.
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GENERAL DEMOLITION NOTES

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STRUCTURAL INTEGRITY:

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CUTTING AND PATCHING:

9. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, ANY EXISTING PERMITTED INTERIOR FINISHES, WHICH ARE REMOVED AND BUILDINGS ARE TO BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
10. PLUMBING LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY. PATCH WALLS AND FLOORS TO MATCH EXISTING CONDITIONS. REFER TO THE PLUMBING PLANS.
11. WHERE EXISTING FLOOR, CEILING, OR WALL FINISHES ARE TO BE REPLACED WITH NEW FINISHINGS, EXISTING SURFACES SHALL BE STRIPPED CLEAN OF ALL EXISTING COVERINGS & MADE READY TO RECIEVE NEW FINISHINGS.
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MEP:
DBR ENGINEERING

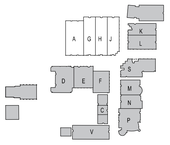
REGISTERED ARCHITECT
RAYMOND D. GIGNAC
STATE OF TEXAS
5295
EXPIRATION DATE
11/30/2019
SIGNED: 05/10/2019

COLLEGE³ READY.CONNECTED.COMPLETE

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING A-G-H-J DEMO PLAN

D-103N

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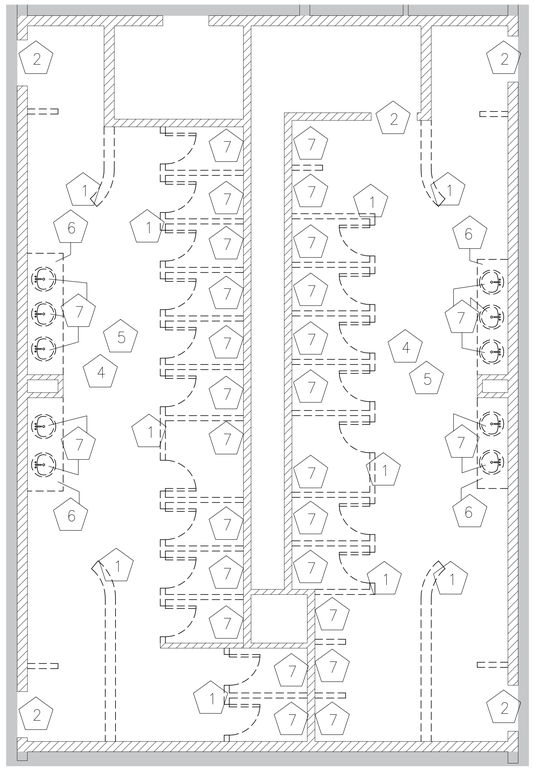

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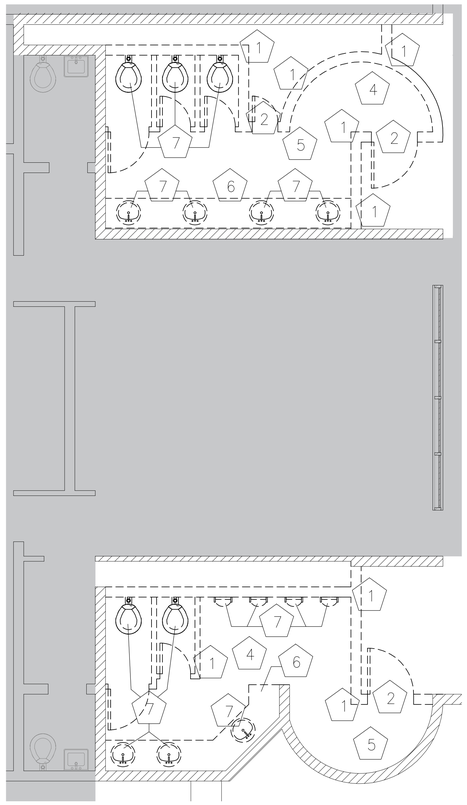
2 DEMOLITION PLAN – ENLARGED PLAN
1/4" = 1'-0"



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

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3. ITEM NOT USED
4. REMOVE EXISTING FLOORING & FLOOR BASE. PREPARE AREA TO RECEIVE NEW FLOORING; REFER TO ROOM FINISH SCHEDULE. (FIELD VERIFICATION REQUIRED).
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CUTTING AND PATCHING:

8. BEFORE COMMENCING ANY SELECTIVE DEMOLITION WORK, PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED TO PROTECT THE REMAINING EXISTING BUILDING.
9. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BE CUT AND REMOVED IN A MANNER THAT WILL NOT DAMAGE ANY EXISTING PORTIONS THAT ARE TO REMAIN UNDAMAGED.
10. ALL EXISTING SURFACES DAMAGED BY REMOVAL OPERATIONS OR BY NEW CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
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16. WHERE A PORTION OF AN EXISTING MASONRY WALL IS TO BE REMOVED: PROVIDE A FINISHED EDGE, BY TOOTHING IN NEW MASONRY TO MATCH EXISTING.(U.O.N.)
17. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL NOTES.
18. REFER TO ABATEMENT REPORT & PLAN FOR NEW OPENINGS OR WALLS PRIOR TO DEMOLITION.

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STATE OF TEXAS
5295
ARCHITECT

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE3 READY.CONNECTED.COMPLETE

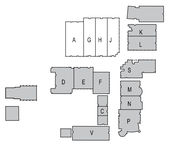
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
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Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING A-G-H-J DEMO PLAN

D-104N

May 08, 2019 – 5:18pm User: cquezada
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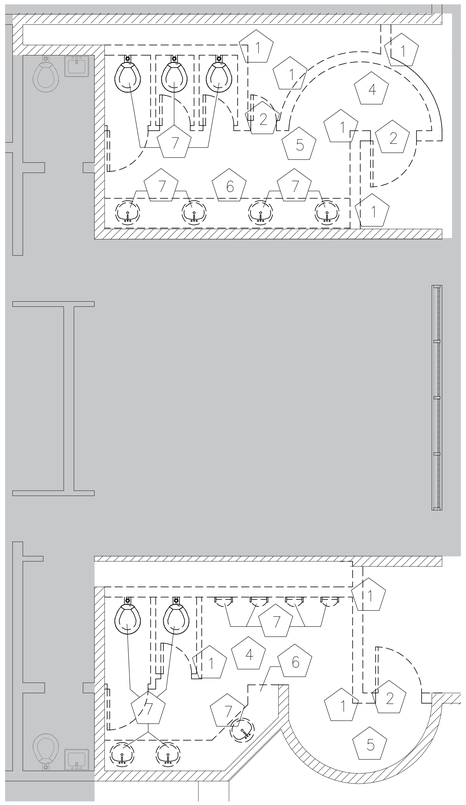

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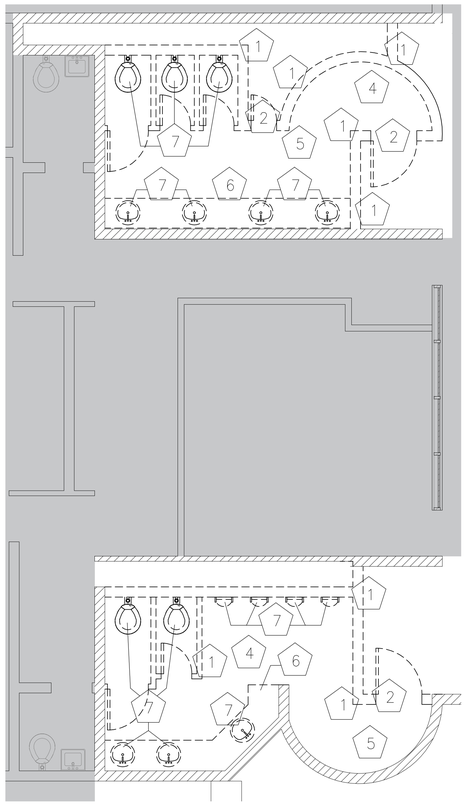
2 DEMOLITION PLAN – ENLARGED PLAN
1/4" = 1'-0"



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3 DEMOLITION PLAN – ENLARGED PLAN
1/4" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE EXISTING WALL OR PORTION OF WALL TO CREATE NEW OPENING; REFER TO PROPOSED FLOOR PLAN FOR EXTENTS OF NEW WALLS AND OPENINGS.
2. REMOVE EXISTING DOOR & FRAME. PATCH AND PREPARE AREA TO RECEIVE NEW FRAME AND DOOR.
3. ITEM NOT USED
4. REMOVE EXISTING FLOORING & FLOOR BASE. PREPARE AREA TO RECEIVE NEW FLOORING; REFER TO ROOM FINISH SCHEDULE. (FIELD VERIFICATION REQUIRED).
5. REMOVE EXISTING CEILING. PREPARE AREA TO RECEIVE NEW CEILING, REFER TO ROOM FINISH SCHEDULE. REFER TO MEP DRAWINGS FOR ITEMS SUCH AS LIGHT FIXTURES, HVAC, ETC.
6. REMOVE EXISTING COUNTERS.
7. REMOVE EXISTING PLUMBING FIXTURES, ITEMS & ACCESSORIES.
8. EXISTING DOOR TO REMAIN; PROVIDE NEW HARDWARE.

GENERAL DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK AND TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. ANY DISCREPANCIES OR AMBIGUOUS ITEMS MUST BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING FOR CLARIFICATION.
2. REFER TO CIVIL, STRUCTURAL, & MEP DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION NOTES.
3. THE OWNER HAS FIRST RIGHT OF SALVAGE OF ALL FIXTURES, EQUIPMENT AND BUILDING MATERIALS REMOVED AS PART OF THIS CONTRACT SHALL NOT BE REUSED IN THE NEW CONSTRUCTION, UNLESS OTHERWISE NOTED.
   REMOVE ALL OTHER DEBRIS AND WASTE FROM THE SITE AND DISPOSE OF PROPERLY, IN ACCORDANCE WITH FED., STATE, & LOCAL REGULATIONS.
4. FIELD VERIFY LOCATIONS OF ALL EXISTING EXTERIOR PUBLIC ADDRESS SPEAKERS, INTERCOM SPEAKERS, PLUGS, SWITCHES, HOSE BIBS, LIGHTS AND CONTROLS PRIOR TO DEMOLITION. THESE SYSTEMS MUST BE PUT BACK IN FUNCTIONING ORDER.
5. IF ABATEMENT REQUIRED, ANY NEW OPENINGS IN AN AREA-- COORDINATE WITH THE TESTING LAB.

STRUCTURAL INTEGRITY:

6. PROVIDE SUPPORT FOR THE EXISTING STRUCTURE BEFORE PERFORMING ANY ALTERATION THERETO.
7. UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS: NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER BEARING OR NON-BEARING, SHALL RECEIVE LOOSE STEEL LINTELS, MINIMUM 8" BEARING.

CUTTING AND PATCHING:

9. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL EXISTING CONSTRUCTION DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
8. REMOVE MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, EQUIPMENT, AND ACCESSORIES AND BRING WALLS TO BE PATCHED TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
10. PLUMBING LINES THAT ARE TO BE REMOVED SHALL BE REMOVED COMPLETELY. PATCH WALLS AND FLOORS TO MATCH EXISTING CONDITIONS. REFER TO THE PLUMBING PLANS.
11. WHERE EXISTING FLOOR, CEILING, OR WALL FINISHES ARE TO BE REPLACED WITH NEW FINISHINGS, EXISTING SURFACES SHALL BE STRIPPED CLEAN OF ALL EXISTING COVERINGS & MADE READY TO RECIEVE NEW FINISHINGS.
    IN ACCORDANCE WITH FINISH MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS INCLUDING LEVEL 4 PLUMB TOLERANCES. REFER TO ROOM FINISH SCHEDULE SHEETS FOR TYPES & LOCATIONS OF NEW FINISHES.
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REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
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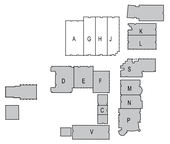

KEYPLAN

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BUILDING A-G-H-J DEMO PLAN

D-105N

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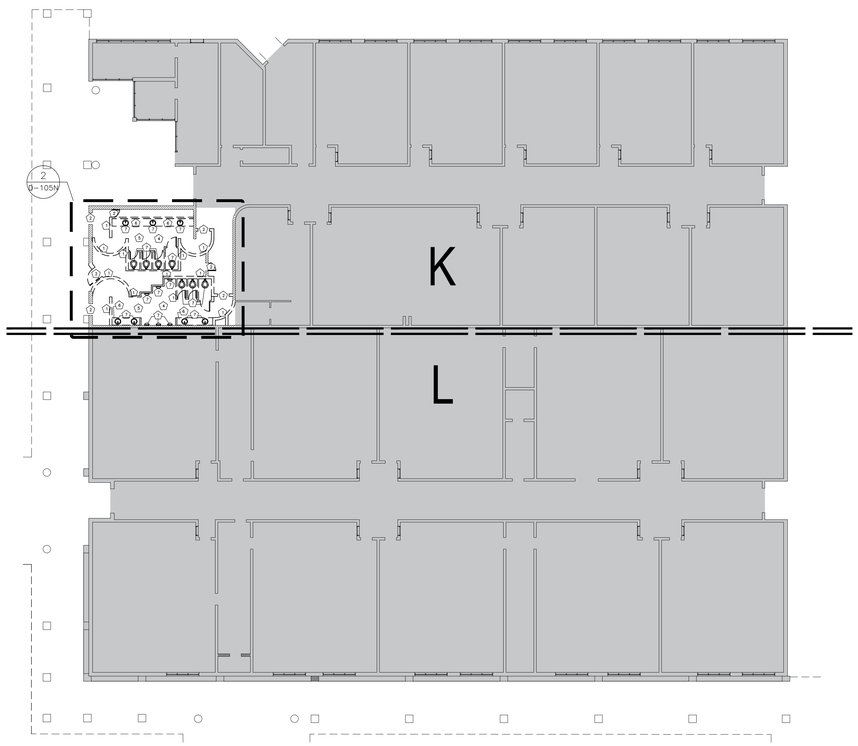

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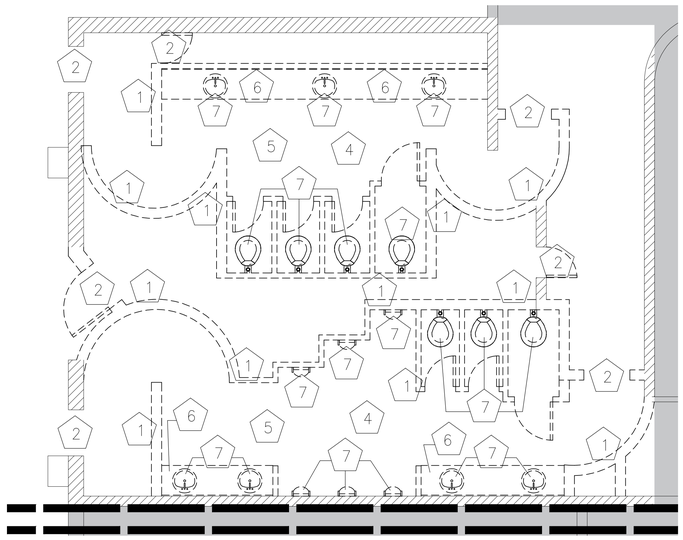
1 DEMOLITION PLAN – BUILDING K
1/16" = 1'-0"



N

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8. ALL CUTTING AND PATCHING SHALL BE DONE WITH MINIMUM DAMAGE TO EXISTING FINISHES.
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MEP:
DBR ENGINEERING

REGISTERED ARCHITECT
RAYMOND D. GIGNAC
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5295
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EXPIRATION DATE
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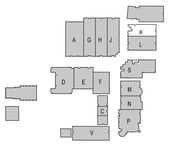

KEYPLAN

Project Number:	19.04
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ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING K DEMO PLAN

D-106N

May 08, 2019 – 5:19pm User: cquezada
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GENERAL CONSTRUCTION NOTES

1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
3. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
S100A	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
S100B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
S101A	3'-0"	7'-0"	FL	WD	A	HM	
S101B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
S102	3'-0"	7'-0"	FL	WD	A	HM	
S103	3'-0"	7'-0"	FL	WD	A	HM	

ROOM FINISH SCHEDULE

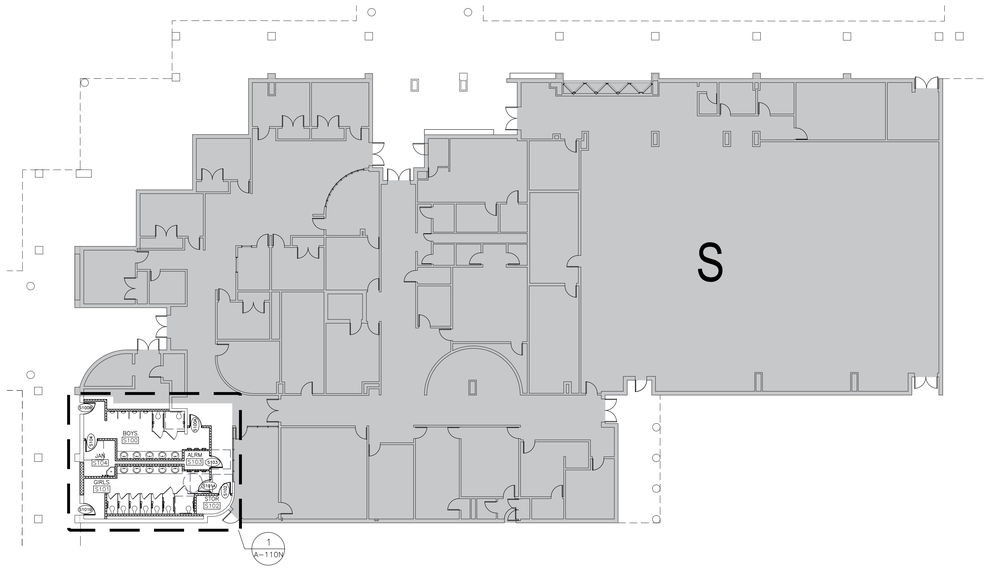
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
S100	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
S101	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
S102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
S103	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK

REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.



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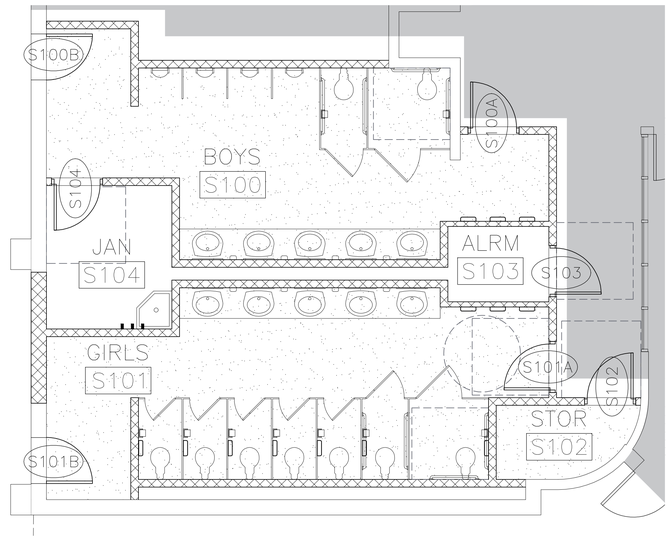
1 FLOORPLAN – BUILDING S
1/16" = 1'-0"



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2 REFLECTED CEILING PLAN – BUILDING S
1/4" = 1'-0"

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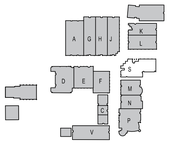

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BUILDING S FLOORPLAN & REFL. CLG. PLN.

A-110-N

May 08, 2019 – 6:52pm User: cquezada
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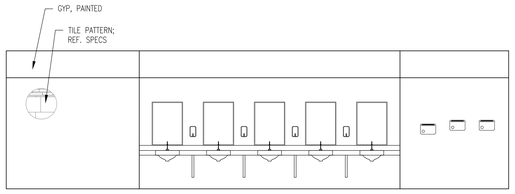
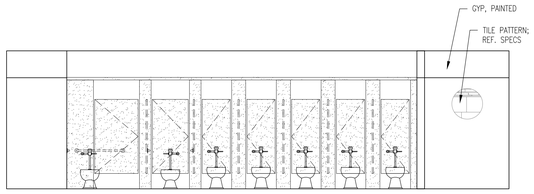
	FIXTURE MOUNTING HEIGHT SCHEDULE * REFER TO ADA GUIDELINES ON SHEET G-102.		ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

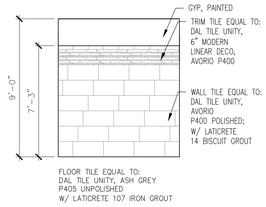


4 INTERIOR ELEVATION – GIRLS S101
1/4" = 1'-0"

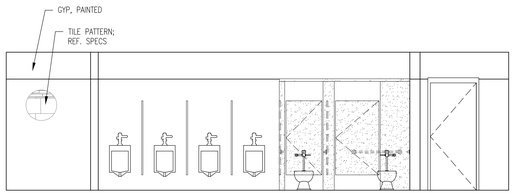


5 INTERIOR ELEVATION – GIRLS S101
1/4" = 1'-0"

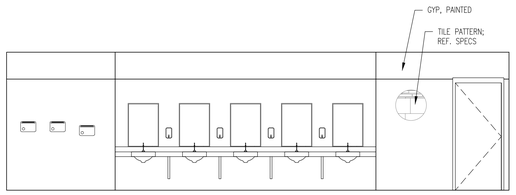
At all Restrooms



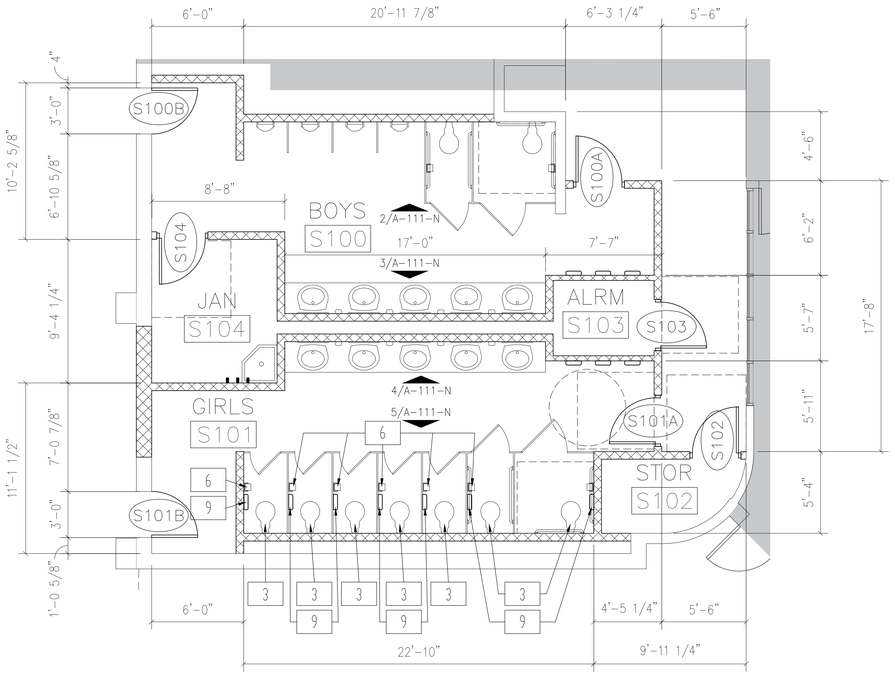
6 TYPICAL WALL FINISHES
1/4" = 1'-0"



2 INTERIOR ELEVATION – BOYS S100
1/4" = 1'-0"



3 INTERIOR ELEVATION – BOYS S100
1/4" = 1'-0"



1 ENLARGED FLOORPLAN – BUILDING S
1/4" = 1'-0"

GIGNAC | ARCHITECTS

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RICHARD D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE 3 READY.CONNECTED.COMPLETE.

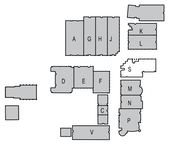
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING S INT ELEV. & ENLRG. FLRPLN.

A-111-N

May 08, 2019 – 6:53pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

GENERAL CONSTRUCTION NOTES

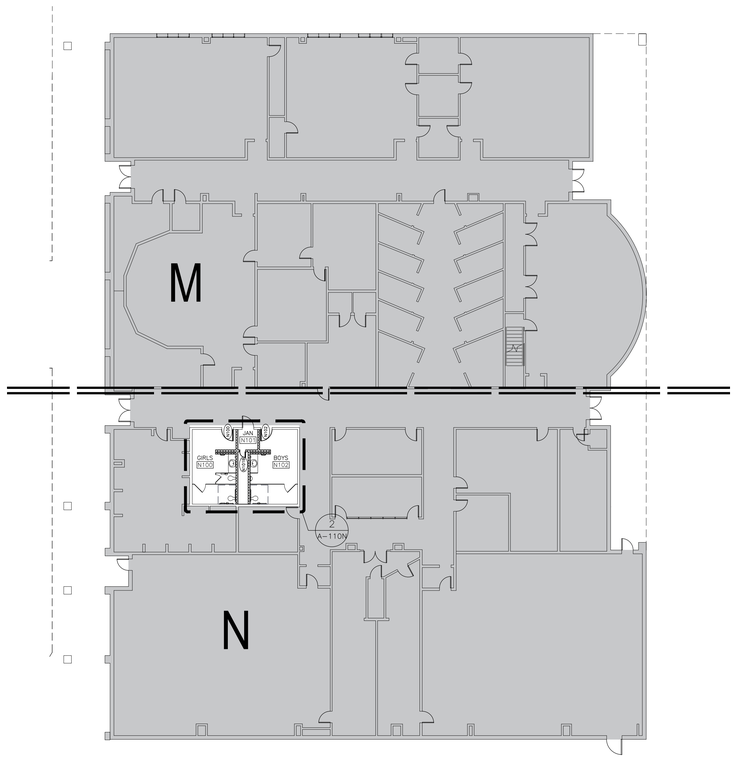
1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
3. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
N100	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
N101B	1'-6"	7'-0"	FL	WD	A	HM	
N102	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
N100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
N101	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
N102	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	



N

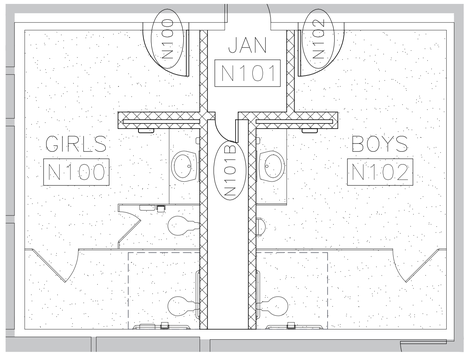
2 FLOOR PLAN – BUILDING N
1/16" = 1'-0"

REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.



N

2 FLOOR PLAN – BUILDING N
1/16" = 1'-0"

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE3 READY.CONNECTED.COMPLETE

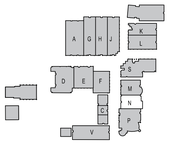
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING N FLOORPLAN & REFL. CLG. PLN.

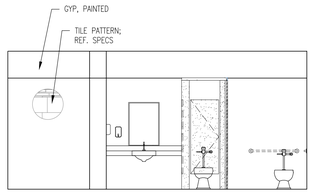
A-112-N

May 08, 2019 – 6:55pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

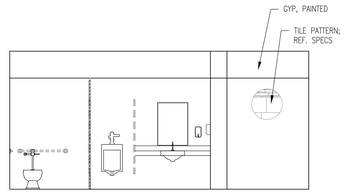
FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

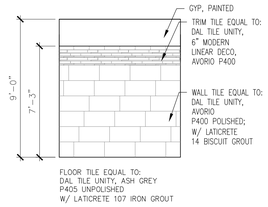


2 INTERIOR ELEVATION – GIRLS N100
1/4" = 1'-0"

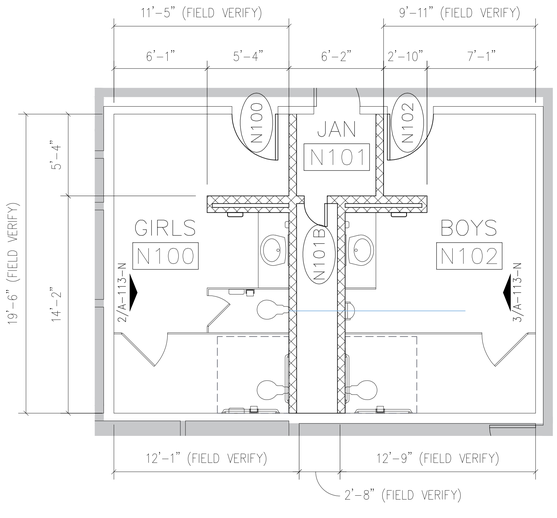


3 INTERIOR ELEVATION – BOYS N102
1/4" = 1'-0"

At all Restrooms



4 TYPICAL WALL FINISHES
1/4" = 1'-0"



N

1 ENLARGED FLOORPLAN – BUILDING N
1/4" = 1'-0"

GIGNAC | ARCHITECTS

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3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE 1/1/30/2019

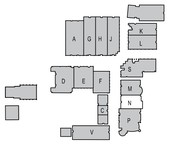
SIGNED: 05/10/2019

PSJA COLLEGE READY.CONNECTED.COMPLETE

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING N INT ELEV. & ENLRG. FLRPLN.

A-113-N

May 08, 2019 – 6:57pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

GENERAL CONSTRUCTION NOTES

1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
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DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
P100	3'-0"	7'-0"	FL	WD	A	HM	
P101A	3'-0"	7'-0"	FL	WD	A	HM	
P101B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
P102A	3'-0"	7'-0"	FL	WD	A	HM	
P102B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
P103	3'-0"	7'-0"	FL	WD	A	HM	

ROOM FINISH SCHEDULE

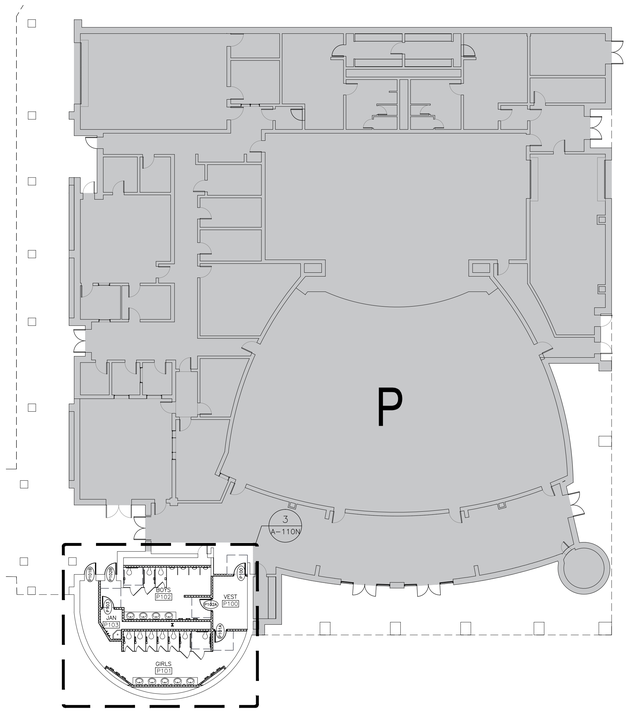
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
P100	VESTIBULE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
P101	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
P102	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
P103	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK

REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

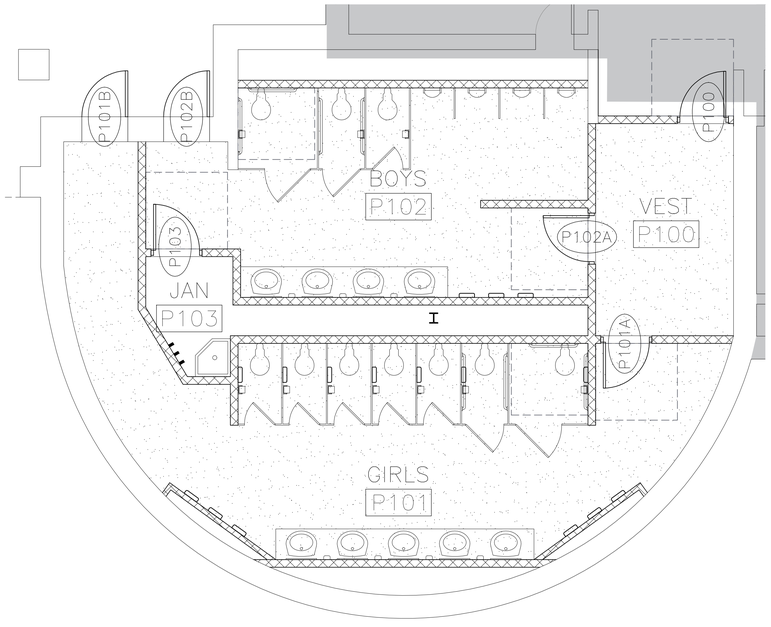
REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.



N

1 FLOORPLAN – BUILDING P
1/16" = 1'-0"



N

2 REFLECTED CEILINGPLAN – BUILDING P
1/16" = 1'-0"

GIGNAC | ARCHITECTS

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT
RAYMOND D. GIGNAC
STATE OF TEXAS
5295
EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

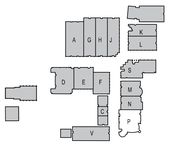
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

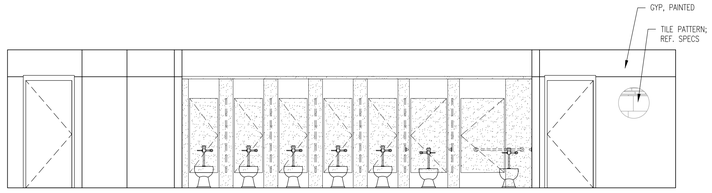
Sheet Title:

BUILDING P FLOORPLAN & REFL. CLG. PLN.

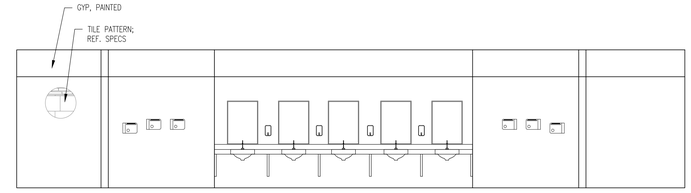
A-114-N

May 08, 2019 – 6:58pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

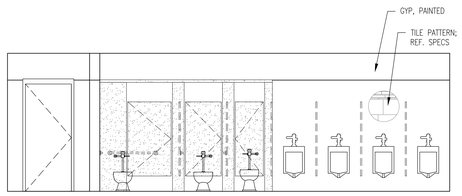
	FIXTURE MOUNTING HEIGHT SCHEDULE * REFER TO ADA GUIDELINES ON SHEET G-102.		ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	



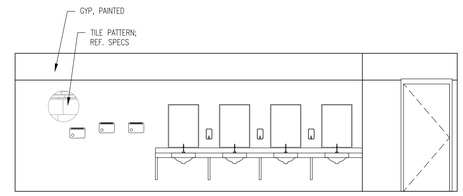
4 INTERIOR ELEVATION – GIRLS P101
1/4" = 1'-0"



5 INTERIOR ELEVATION – GIRLS P101
1/4" = 1'-0"

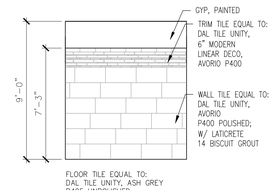


2 INTERIOR ELEVATION – BOYS P102
1/4" = 1'-0"

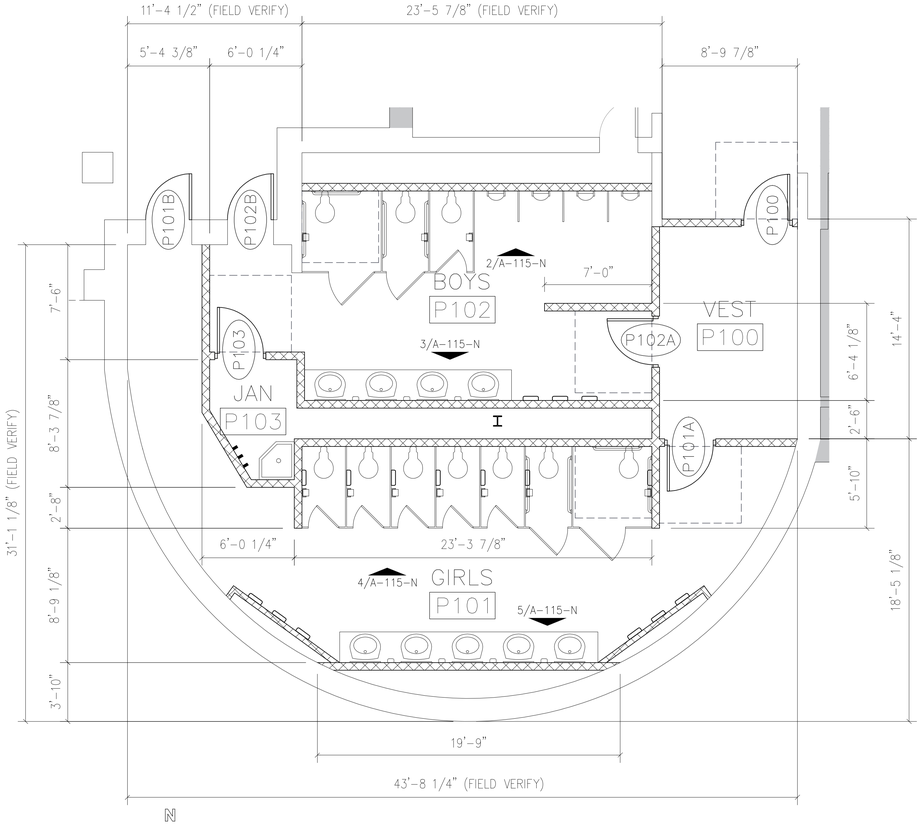


3 INTERIOR ELEVATION – BOYS P102
1/4" = 1'-0"

At all Restrooms



6 TYPICAL WALL FINISHES
1/4" = 1'-0"



1 ENLARGED FLOORPLAN – BUILDING P
1/4" = 1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
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3700 N. 10TH, SUITE 205
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F 956.622.7313

Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

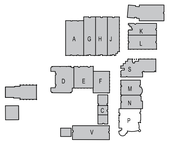
REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295
EXPIRATION DATE 12/30/2019
SIGNED: 05/10/2019

PSJA COLLEGE 3 READY.CONNECTED.COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING P INT ELEV. & ENLRG. FLRPLN.

A-115-N

May 08, 2019 – 6:59pm User: cquezada
P:\CoGA Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

GENERAL CONSTRUCTION NOTES

1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
3. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
V100A	3'-0"	7'-0"	FL	WD	A	HM	
V100B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
V101A	3'-0"	7'-0"	FL	WD	A	HM	
V101B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
V102	3'-0"	7'-0"	FL	HM	A	HM	

ROOM FINISH SCHEDULE

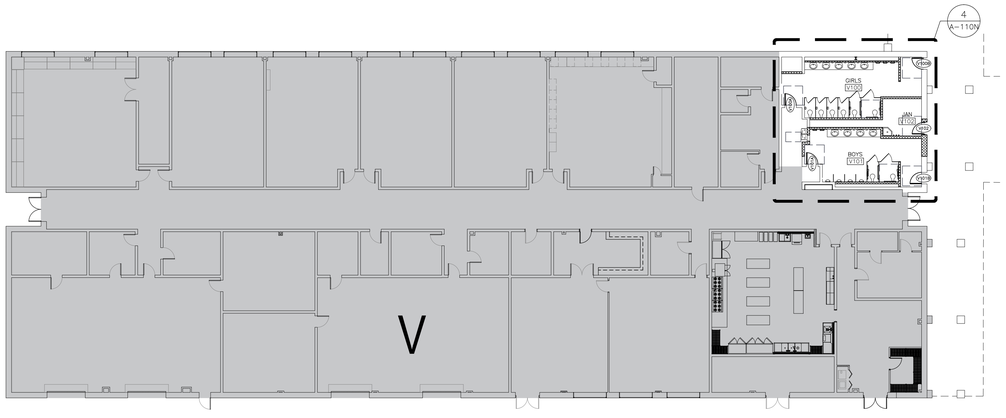
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
V100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
V101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
V102	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP. STRUC		PAINT EXPOSED STRUCTURE & DECK

REFLECTED CEILING LEGEND

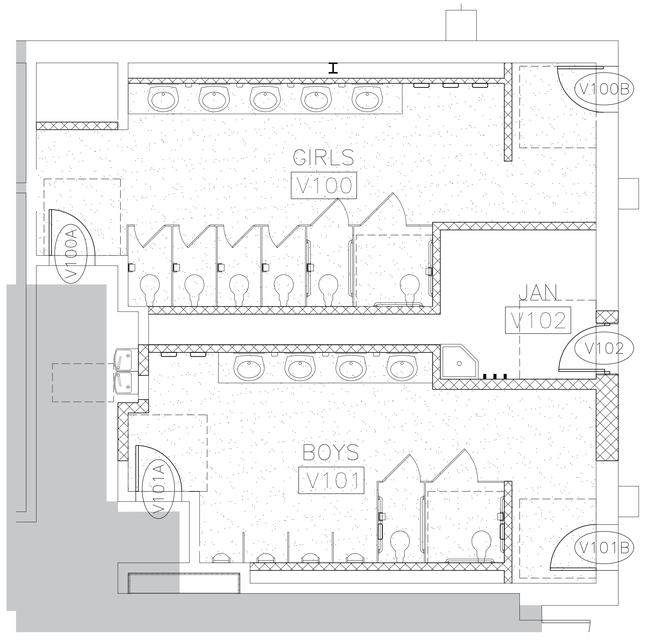
- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.



2 FLOORPLAN – BUILDING V
1/16" = 1'-0"



2 REFLECTED CEILING PLAN – BUILDING V
1/16" = 1'-0"

GIGNAC | ARCHITECTS

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT
RAYMOND D. GIGNAC
8295
STATE OF TEXAS
EXPIRATION DATE
11/30/2019

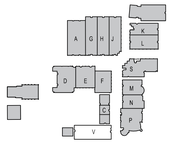
SIGNED: 05/10/2019

COLLEGE3 READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

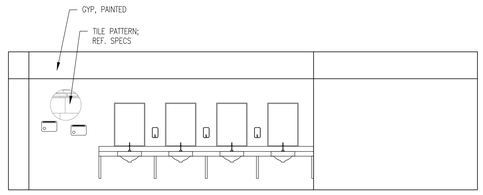
Sheet Title:

BUILDING V FLOORPLAN & REFL. CLG. PLN.

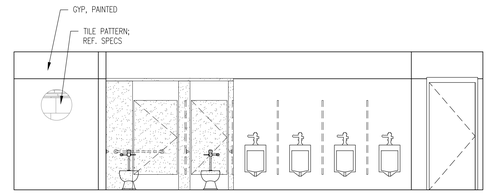
A-116-N

May 08, 2019 – 7:00pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

	FIXTURE MOUNTING HEIGHT SCHEDULE * REFER TO ADA GUIDELINES ON SHEET G-102.		ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

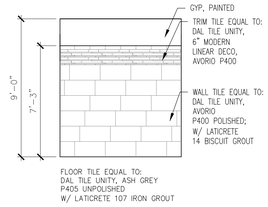


4 INTERIOR ELEVATION – BOYS V101
1/4" = 1'-0"

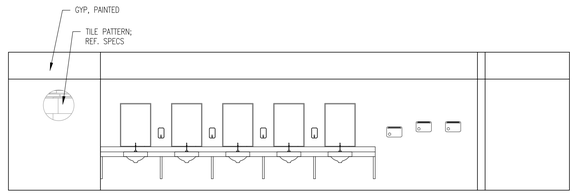


5 INTERIOR ELEVATION – BOYS V101
1/4" = 1'-0"

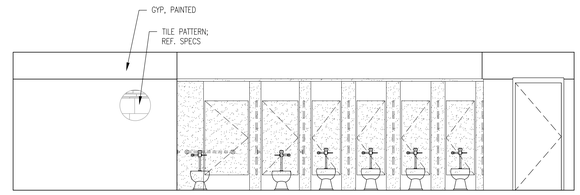
At all Restrooms



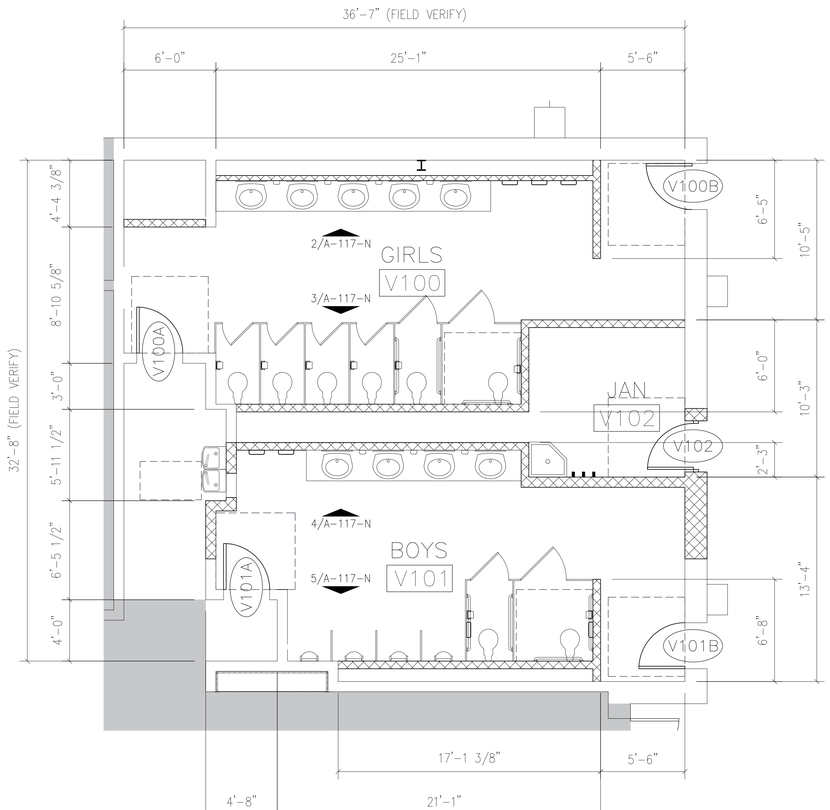
6 TYPICAL WALL FINISHES
1/4" = 1'-0"



2 INTERIOR ELEVATION – GIRLS V100
1/4" = 1'-0"



3 INTERIOR ELEVATION – GIRLS V100
1/4" = 1'-0"



1 ENLARGED FLOORPLAN – BUILDING V
1/4" = 1'-0"

GIGNAC | ARCHITECTS

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

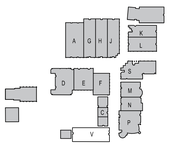
SIGNED: 05/10/2019

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number: 19.04
Drawing Date: MAY 10, 2019
Drawn: CQ
Checked: JM
Scale: VARIES
ACAD File: DEMO PLAN

Revisions:

Sheet Title:

BUILDING V INT ELEV. & ENLRG. FLRPLN.

A-117-N

May 08, 2019 – 7:01pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

GENERAL CONSTRUCTION NOTES

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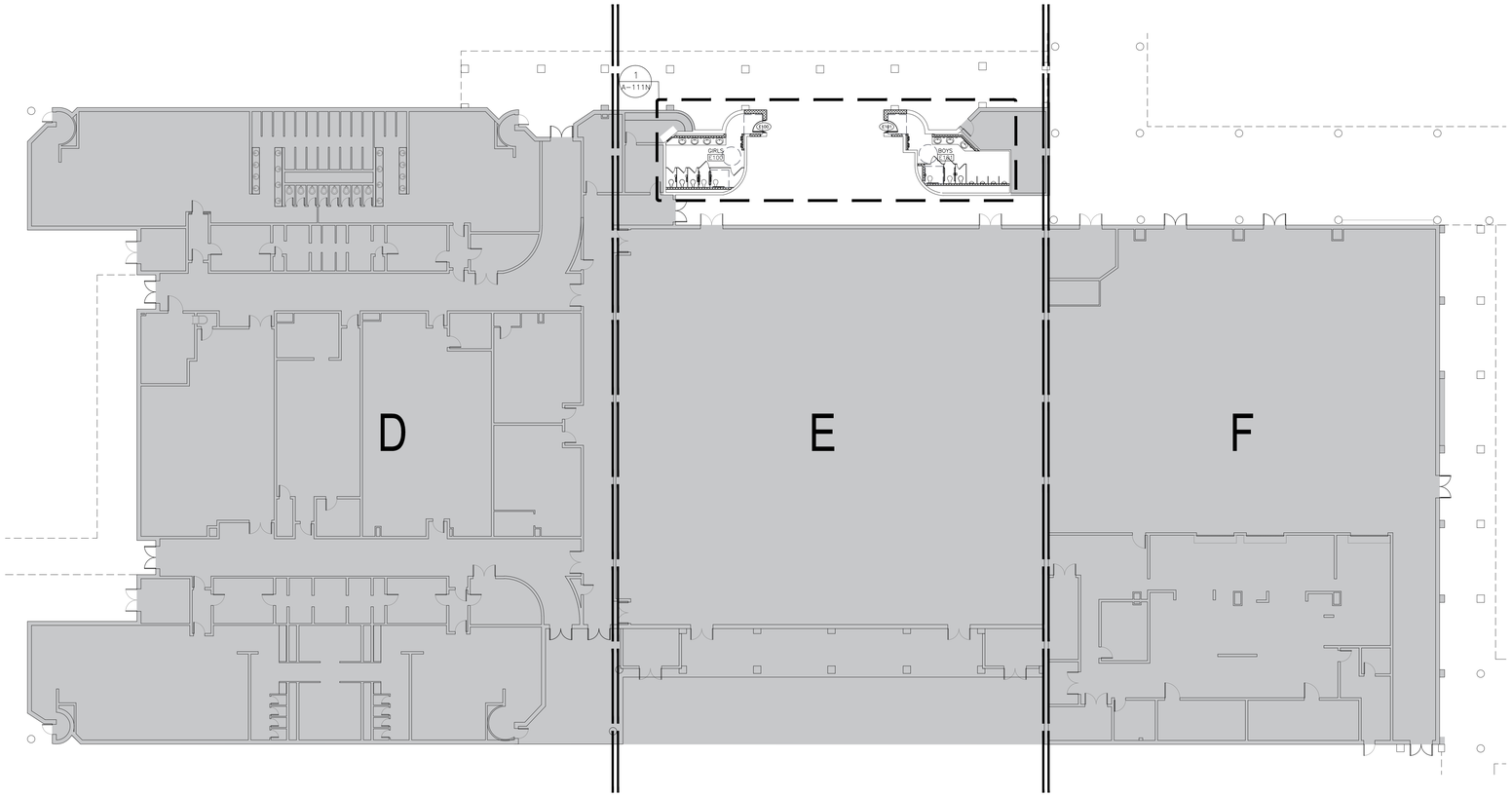
DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
E100	3'-0"	7'-0"	FL	HM	A	HM	
E101	3'-0"	7'-0"	FL	HM	A	HM	

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
E100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
E101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	



N

1 FLOORPLAN – BUILDING E
1/16" = 1'-0"

GIGNAC | ARCHITECTS

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE3 READY.CONNECTED.COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING E FLOORPLAN

A-118-N

May 08, 2019 – 7:02pm User: cquezada
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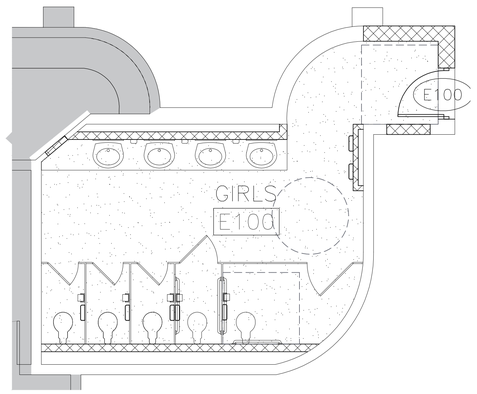
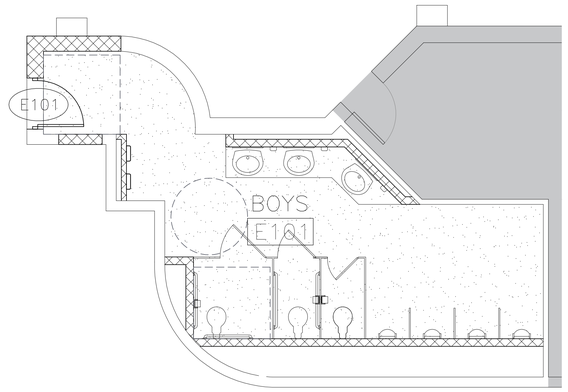




N

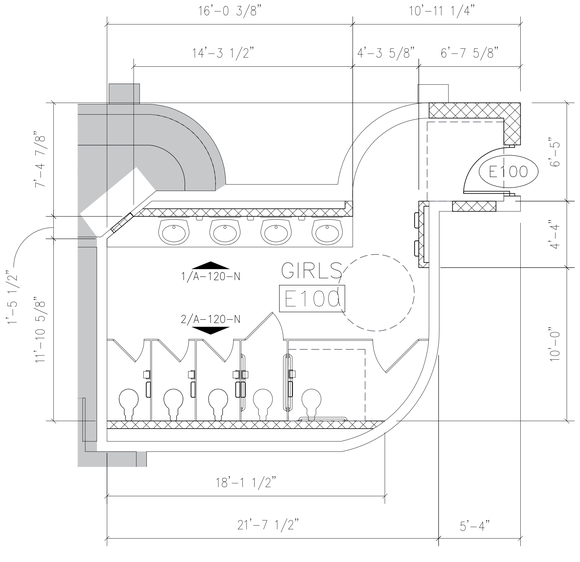
2 REFLECTED CEILING PLAN – BUILDING E
1/4" = 1'-0"

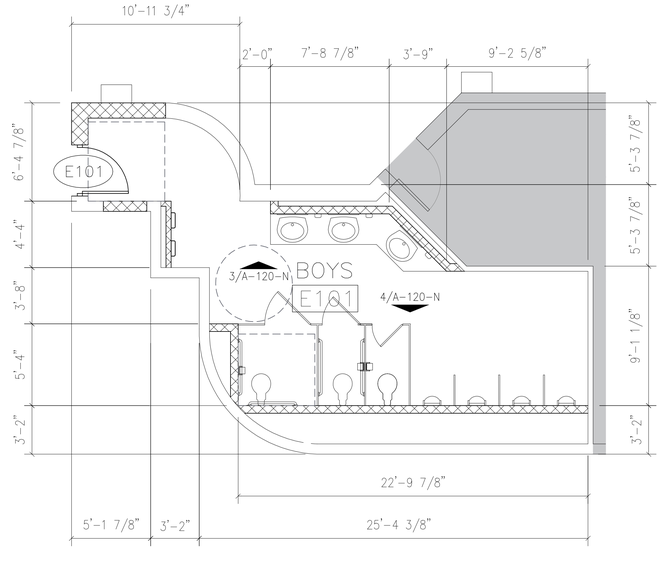
REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.





N

1 ENLARGED FLOORPLAN – BUILDING E
1/4" = 1'-0"

FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

GIGNAC | ARCHITECTS

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE READY. CONNECTED. COMPLETE.

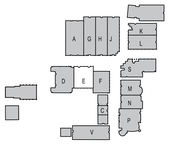
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number: 19.04
Drawing Date: MAY 10, 2019
Drawn: CQ
Checked: JM
Scale: VARIES
ACAD File: DEMO PLAN

Revisions:

Sheet Title:

BUILDING E REFL. CLG. PLN. & ELRG,. FLRPLN.

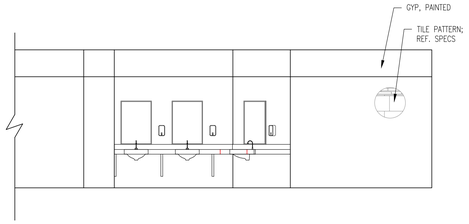
A-119-N

May 08, 2019 – 7:03pm User: cquezada
P:\C&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

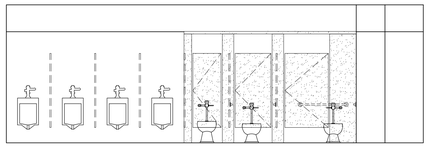
FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

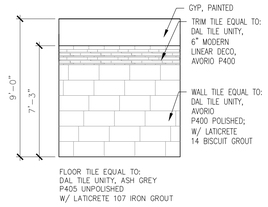


3 INTERIOR ELEVATION – BOYS E101
1/4" = 1'-0"

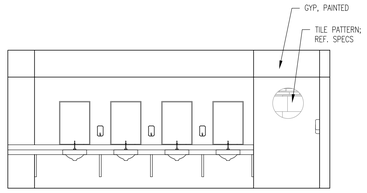


4 INTERIOR ELEVATION – BOYS E101
1/4" = 1'-0"

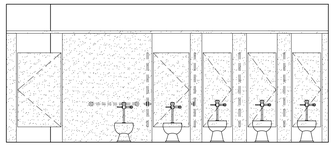
At all Restrooms



5 TYPICAL WALL FINISHES
1/4" = 1'-0"



1 INTERIOR ELEVATION – GIRLS E100
1/4" = 1'-0"



2 INTERIOR ELEVATION – GIRLS E100
1/4" = 1'-0"

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CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT
RICHARD D. GIGNAC
STATE OF TEXAS
5295
ARCHITECT

EXPIRATION DATE
12/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE 3 READY.CONNECTED.COMPLETE.

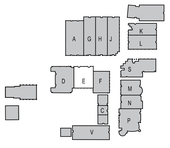
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number: 19.04
Drawing Date: MAY 10, 2019
Drawn: CQ
Checked: JM
Scale: VARIES
ACAD File: DEMO PLAN

Revisions:

Sheet Title:

BUILDING E INTERIOR ELEVATION

A-120-N

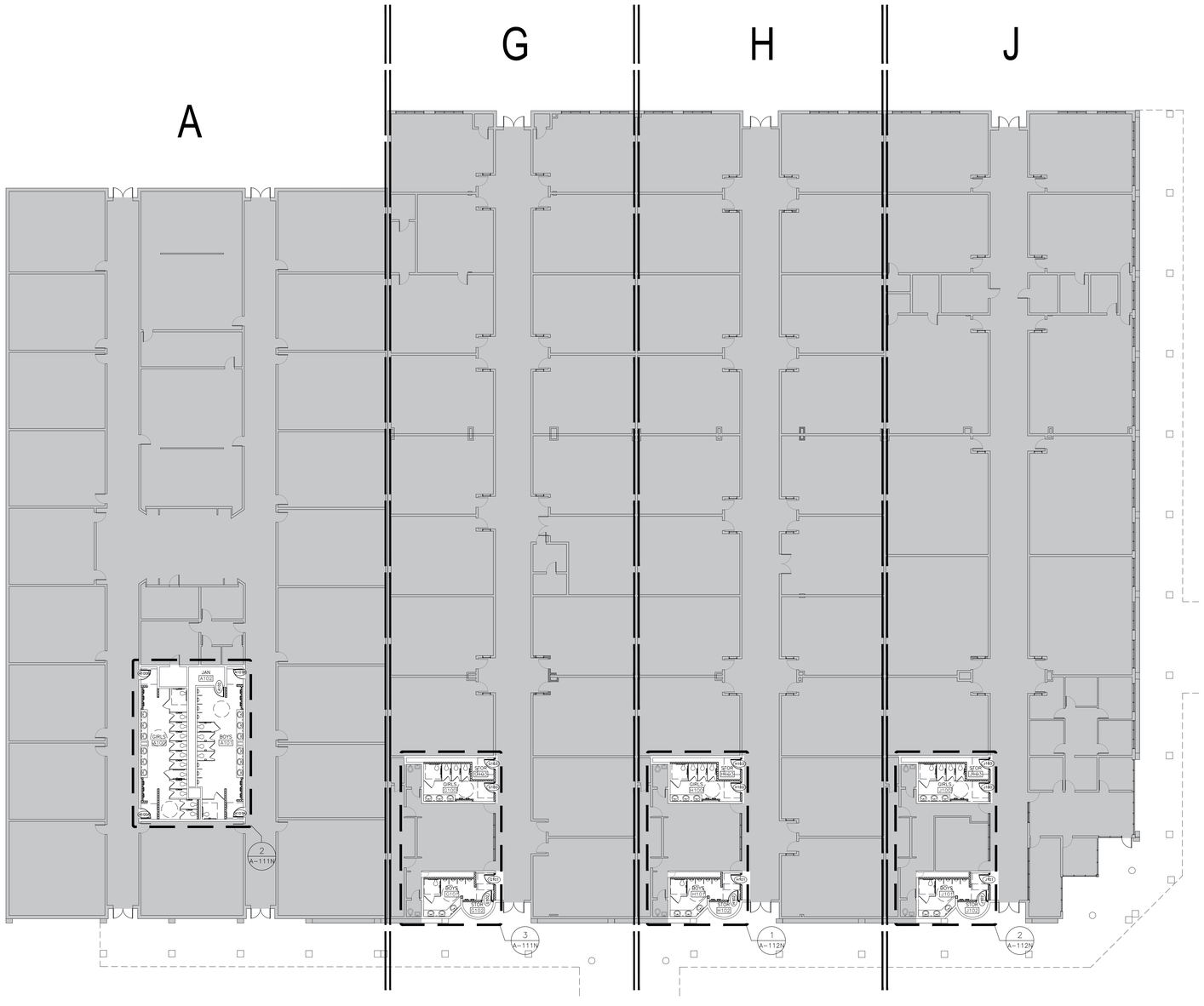
May 08, 2019 – 7:04pm User: cquezada
P:\Gi&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

GENERAL CONSTRUCTION NOTES

1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
3. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
A100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
A101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
A102	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
G100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
G101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
G102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
G103	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
H100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
H101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
H102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
H103	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
J100	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
J101	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
J102	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
J103	STORAGE	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK



1 FLOORPLAN – BUILDING A–G–H–J
1/16" = 1'-0"

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
A100A	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A100B	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A101A	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A101B	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
A102	3'-0"	7'-0"	FL	WD	A	HM	FIELD VERIFY EXISTING OPENING
G100	3'-0"	7'-0"	FL	WD	A	HM	
G101	3'-0"	7'-0"	FL	WD	A	HM	
G102	3'-0"	7'-0"	FL	WD	A	HM	
G103	3'-0"	7'-0"	FL	WD	A	HM	
H100	3'-0"	7'-0"	FL	WD	A	HM	
H101	3'-0"	7'-0"	FL	WD	A	HM	
H102	3'-0"	7'-0"	FL	WD	A	HM	
H103	3'-0"	7'-0"	FL	WD	A	HM	
J100	3'-0"	7'-0"	FL	WD	A	HM	
J101	3'-0"	7'-0"	FL	WD	A	HM	
J102	3'-0"	7'-0"	FL	WD	A	HM	
J103	3'-0"	7'-0"	FL	WD	A	HM	

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

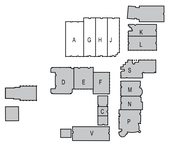
REGISTERED ARCHITECT RAYMOND R. GIGNAC STATE OF TEXAS 5295
EXPIRATION DATE 12/30/2019
SIGNED: 05/10/2019

PSJA COLLEGE READY.CONNECTED.COMPLETE

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number: 19.04
Drawing Date: MAY 10, 2019
Drawn: CQ
Checked: JM
Scale: VARIES
ACAD File: DEMO PLAN

Revisions:

Sheet Title:

BLDG A-G-H-J FLOORPLAN

A-121-N

May 08, 2019 – 7:05pm User: cquezada
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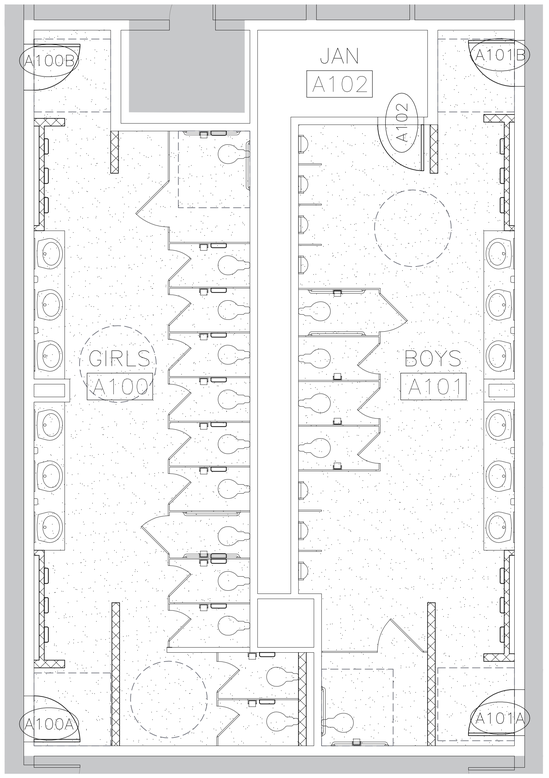
REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

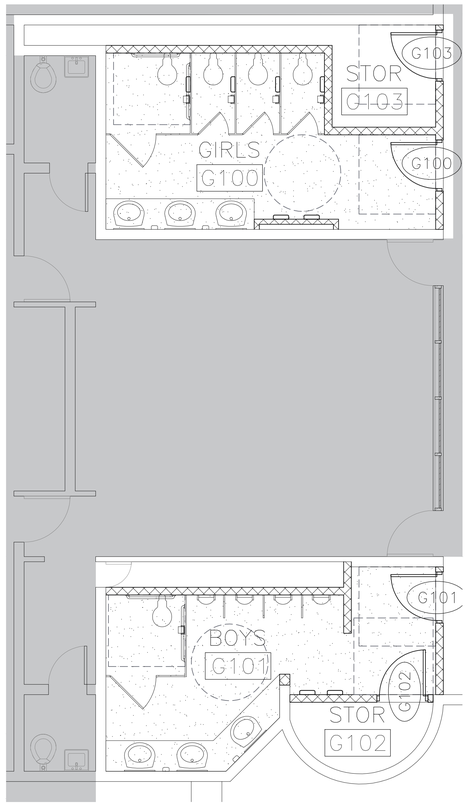
1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.

2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.



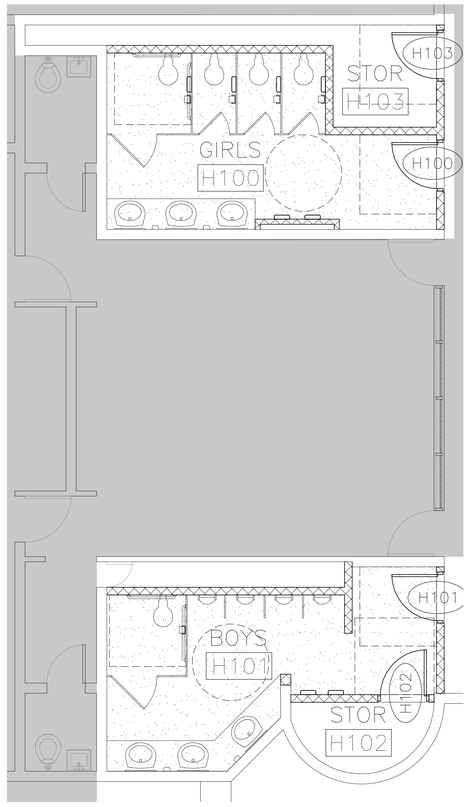
N

1 REFLECTED CEILING PLAN – BUILDING A
1/4" = 1'-0"



N

2 REFLECTED CEILING PLAN – BUILDING G
1/4" = 1'-0"



N

3 REFLECTED CEILING PLAN – BUILDING H
1/4" = 1'-0"

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Consultants:

CIVIL:
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STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT
RAYMOND D. GIGNAC
STATE OF TEXAS
5295
EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE[3] READY.CONNECTED.COMPLETE.

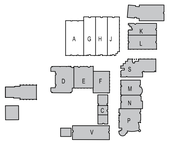
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BLDG. A-G-H-J REFLECTED CEILING PLAN

A-122-N

May 08, 2019 – 7:06pm User: cquezada
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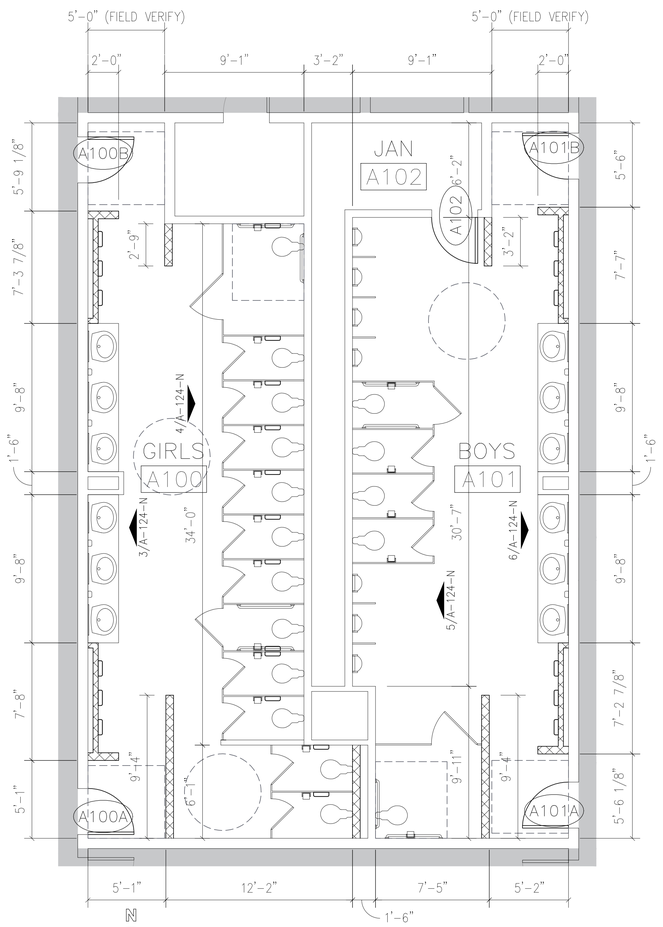
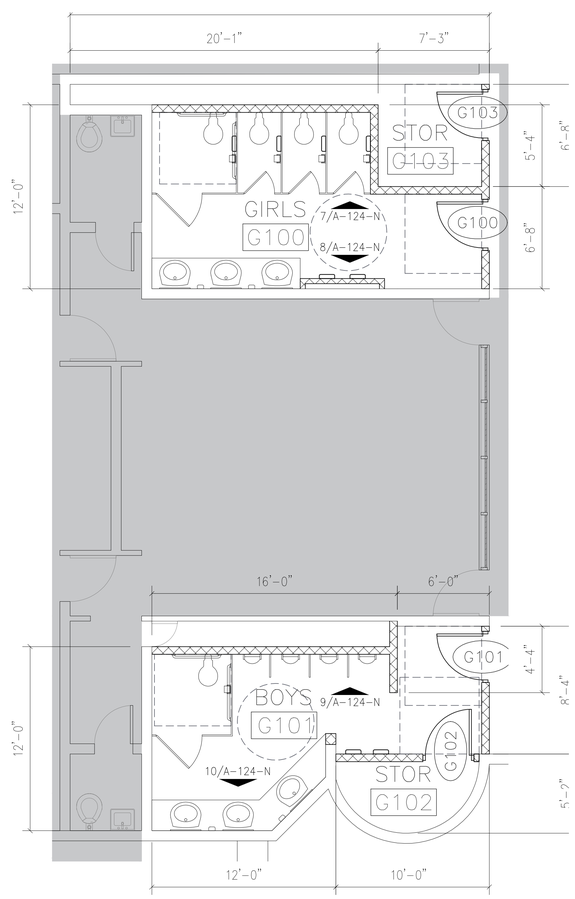
FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

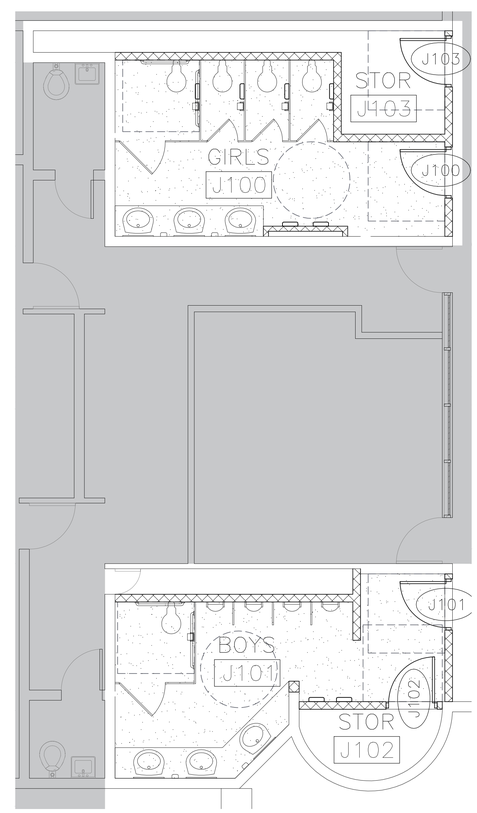
			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	



1 ENLARGED FLOORPLAN – BUILDING A
1/4" = 1'-0"



2 ENLARGED FLOORPLAN – BUILDING G
1/4" = 1'-0"



3 REFLECTED CEILING PLAN – BUILDING J
1/4" = 1'-0"

REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE 11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

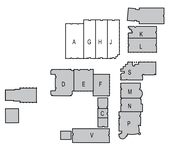
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BLDG. A-G-H-J ENLRG. FLRPLN. & REFL. CLG. PLN.

A-123-N

May 08, 2019 – 7:09pm User: cquezada
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	FIXTURE MOUNTING HEIGHT SCHEDULE * REFER TO ADA GUIDELINES ON SHEET G-102.		ADULTS
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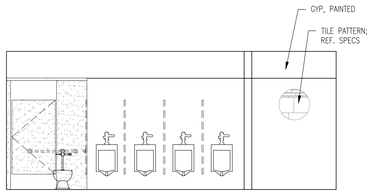
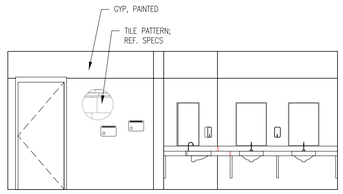
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

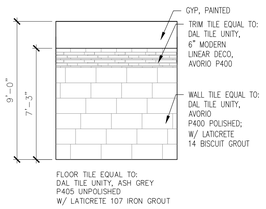


9 INTERIOR ELEVATION – BOYS G101
1/4" = 1'-0"

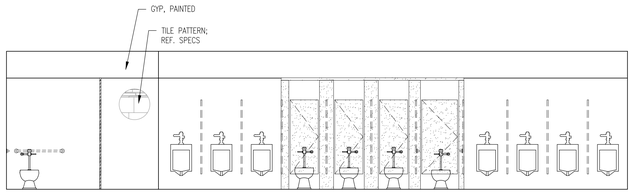


10 INTERIOR ELEVATION – BOYS G101
1/4" = 1'-0"

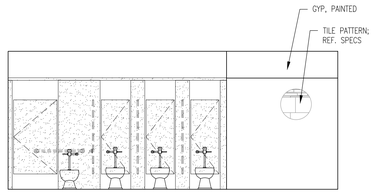
At all Restrooms



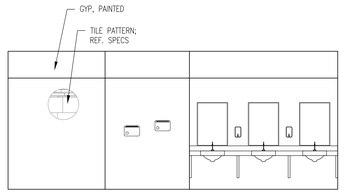
11 TYPICAL WALL FINISHES
1/4" = 1'-0"



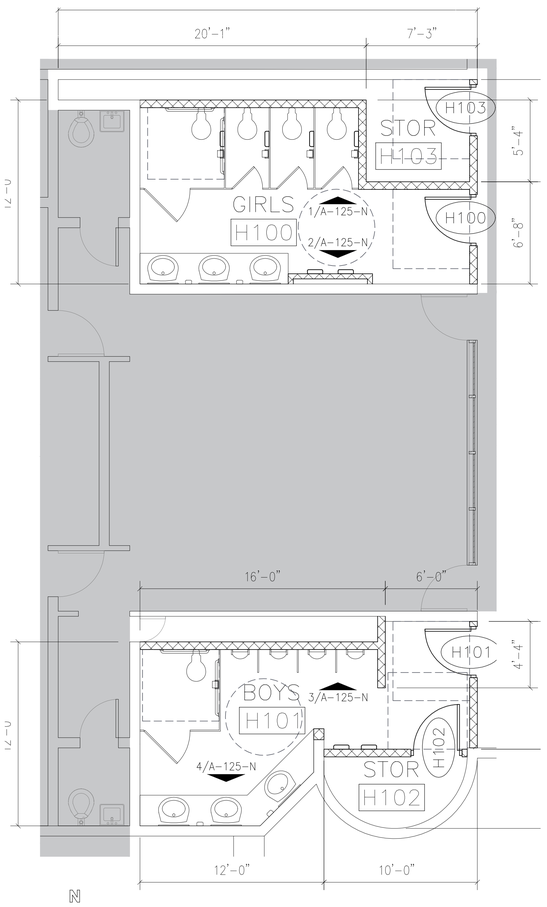
6 INTERIOR ELEVATION – BOYS A101
1/4" = 1'-0"



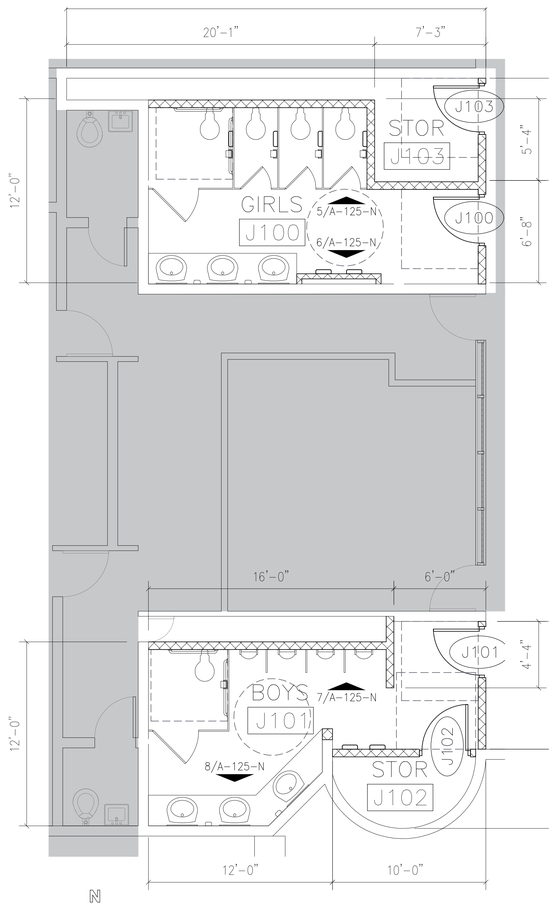
7 INTERIOR ELEVATION – GIRLS G100
1/4" = 1'-0"



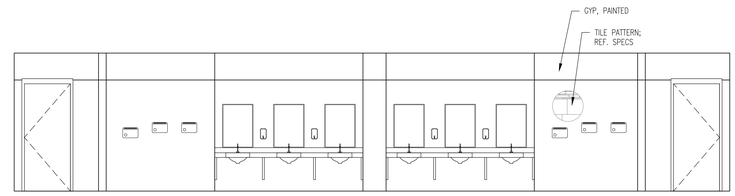
8 INTERIOR ELEVATION – GIRLS G100
1/4" = 1'-0"



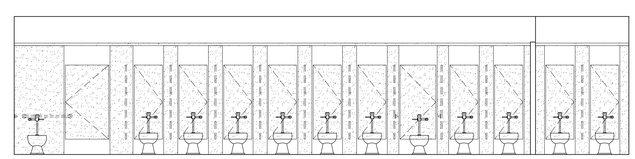
1 ENLARGED FLOORPLAN – BUILDING H
1/4" = 1'-0"



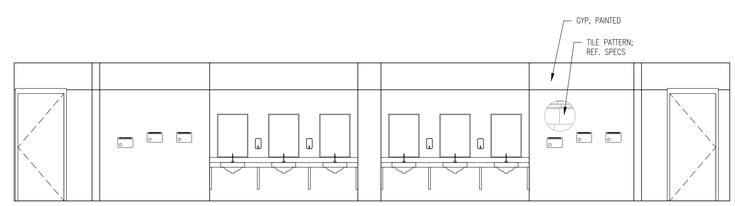
2 ENLARGED FLOORPLAN – BUILDING J
1/4" = 1'-0"



5 INTERIOR ELEVATION – BOYS A101
1/4" = 1'-0"



4 INTERIOR ELEVATION – GIRLS A100
1/4" = 1'-0"



3 INTERIOR ELEVATION – GIRLS A100
1/4" = 1'-0"

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

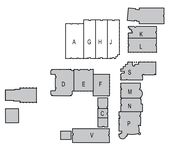
REGISTERED ARCHITECT RICHARD D. GIGNAC STATE OF TEXAS 5295
EXPIRATION DATE 11/30/2019
SIGNED: 05/10/2019

PSJA COLLEGE READY.CONNECTED.COMPLETE

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number: 19.04
Drawing Date: MAY 10, 2019
Drawn: CQ
Checked: JM
Scale: VARIES
ACAD File: DEMO PLAN

Revisions:

Sheet Title:

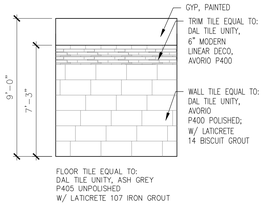
BLDG. A-G-H-J ENLRG. FLRPLN. & INT. ELEV.

A-124-N

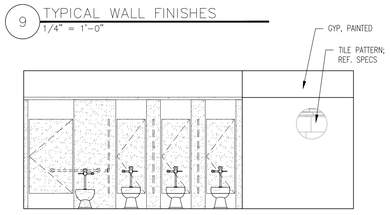
May 08, 2019 – 7:11pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

	FIXTURE MOUNTING HEIGHT SCHEDULE * REFER TO ADA GUIDELINES ON SHEET G-102.		ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	

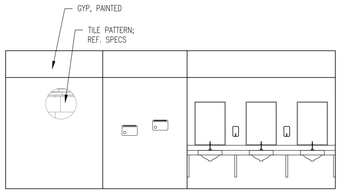
At all Restrooms



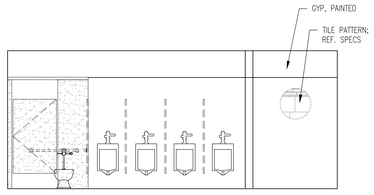
9 TYPICAL WALL FINISHES
1/4" = 1'-0"



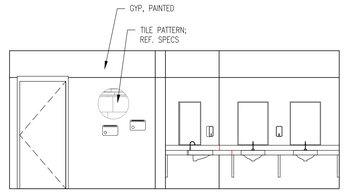
5 INTERIOR ELEVATION – GIRLS J100
1/4" = 1'-0"



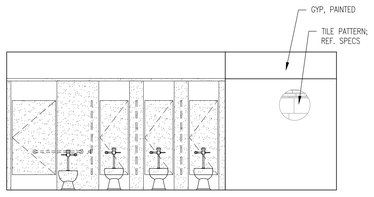
6 INTERIOR ELEVATION – GIRLS J100
1/4" = 1'-0"



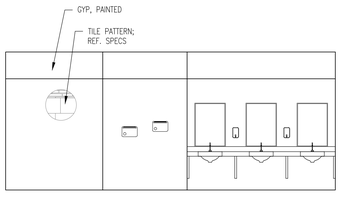
7 INTERIOR ELEVATION – BOYS J101
1/4" = 1'-0"



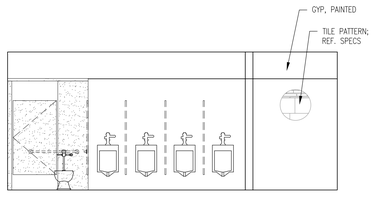
8 INTERIOR ELEVATION – BOYS J101
1/4" = 1'-0"



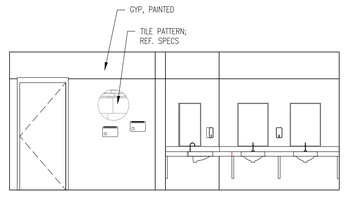
1 INTERIOR ELEVATION – GIRLS H100
1/4" = 1'-0"



2 INTERIOR ELEVATION – GIRLS H100
1/4" = 1'-0"



3 INTERIOR ELEVATION – BOYS H101
1/4" = 1'-0"



4 INTERIOR ELEVATION – BOYS H101
1/4" = 1'-0"

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295
EXPIRATION DATE 11/30/2019
SIGNED: 05/10/2019

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

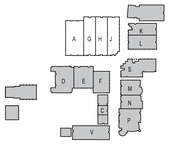
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BLDG. A-G-H-J INT. ELEV.

A-125-N

May 08, 2019 – 7:12pm User: cquezada
P:\C&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

GENERAL CONSTRUCTION NOTES

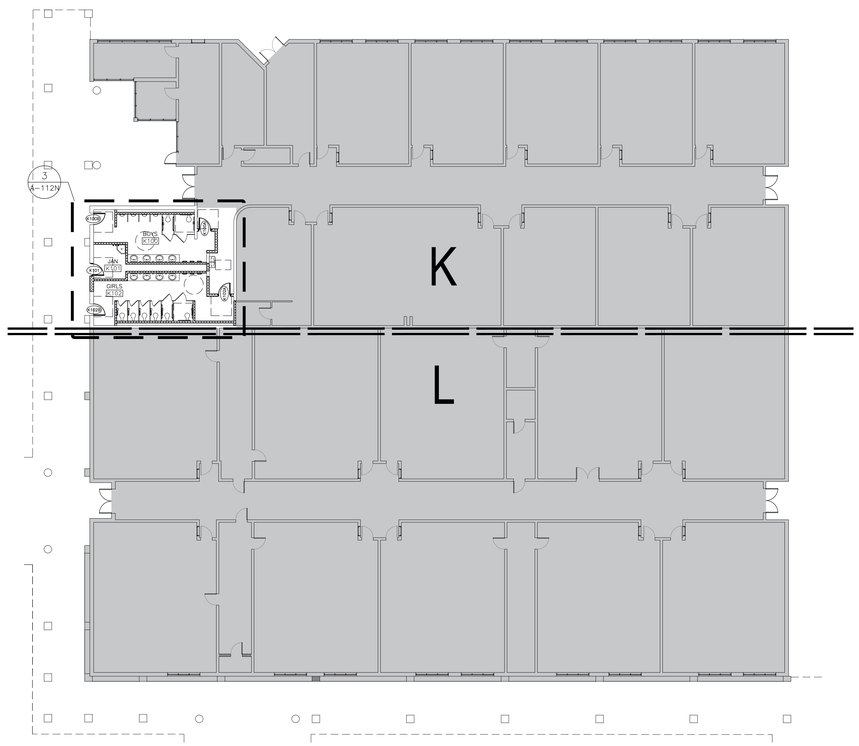
1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
3. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
K100A	3'-0"	7'-0"	FL	WD	A	HM	
K100B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING
K101	3'-0"	7'-0"	FL	HM	A	HM	
K102A	3'-0"	7'-0"	FL	WD	A	HM	
K102B	3'-0"	7'-0"	FL	HM	A	HM	FIELD VERIFY EXISTING OPENING

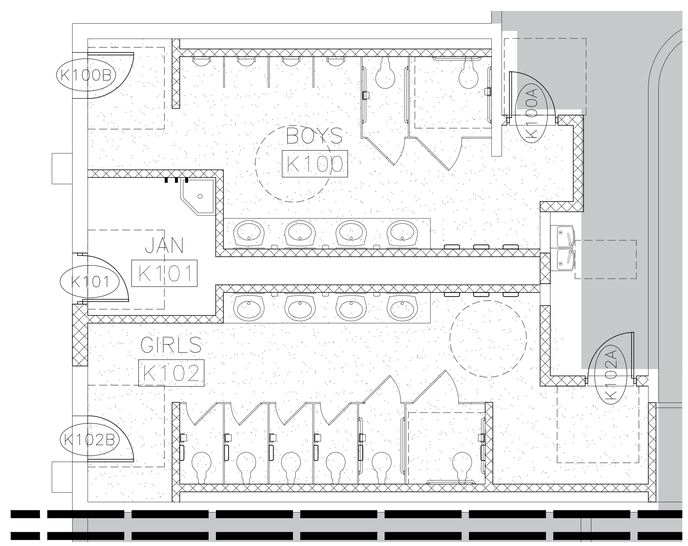
ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
K100	BOYS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	
K101	JANITOR	SEALED CONCRETE	NONE	PT	PT	PT	PT	EXP STRUC		PAINT EXPOSED STRUCTURE & DECK
K102	GIRLS	TILE: UNITY ASH GREY	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	TILE: UNITY AVORIO/PT	GYP. PTD.	9'-0"	



N

1 FLOORPLAN – BUILDING K
1/16" = 1'-0"



N

2 REFLECTED CEILING PLAN – BUILDING K
1/4" = 1'-0"

REFLECTED CEILING LEGEND

- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT DAGOBERTO R. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
12/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

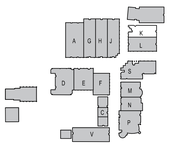
PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
Checked:	JM
Scale:	VARIES
ACAD File:	DEMO PLAN

Revisions:

Sheet Title:

BUILDING K FLOORPLAN & REFL. CLG. PLN.

A-126-N

May 08, 2019 – 7:14pm User: cquezada
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A100 RR floorplan.dwg

FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
8	8. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
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9	9. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
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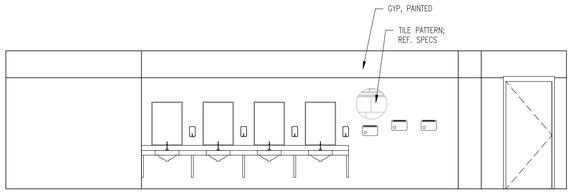
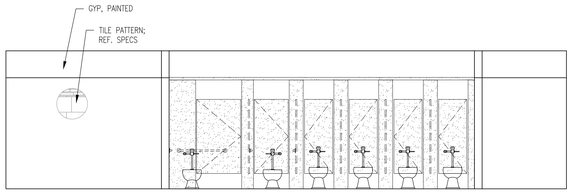
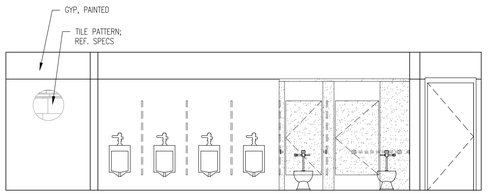
10	10. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
11	11. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
12	12. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
13	13. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	



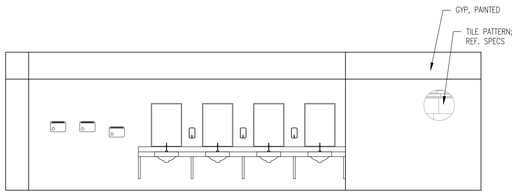
4 INTERIOR ELEVATION – GIRLS K102
1/4" = 1'-0"



5 INTERIOR ELEVATION – GIRLS K102
1/4" = 1'-0"

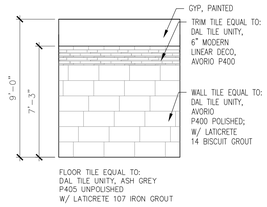


2 INTERIOR ELEVATION – BOYS K100
1/4" = 1'-0"

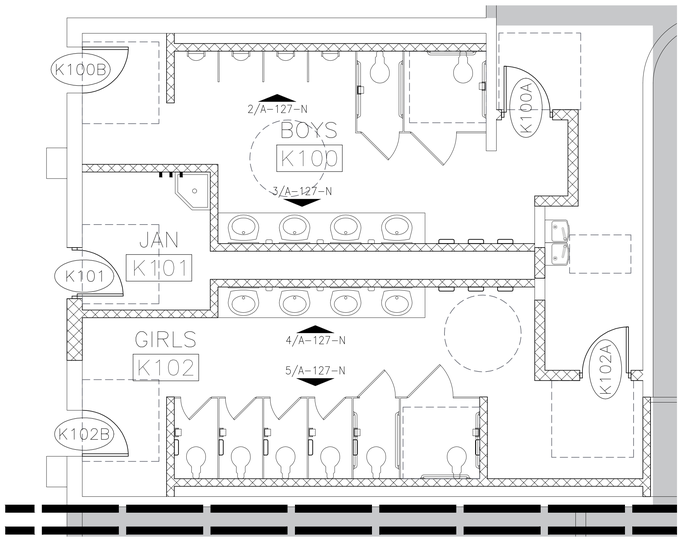


3 INTERIOR ELEVATION – BOYS K100
1/4" = 1'-0"

At all Restrooms



6 TYPICAL WALL FINISHES
1/4" = 1'-0"



N

1 ENLARGED FLOORPLAN – BUILDING K
1/4" = 1'-0"

May 08, 2019 – 7:15pm User: cquezada
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DBR ENGINEERING

REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE 11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE3 READY.CONNECTED.COMPLETE.

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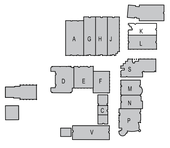
STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	CQ
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ACAD File:	DEMO PLAN

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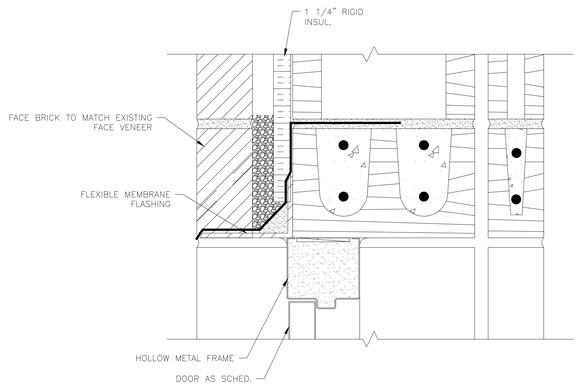
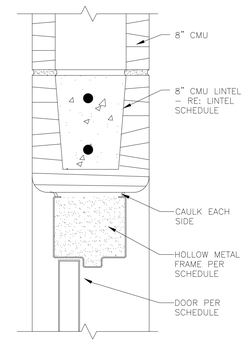
Sheet Title:

BUILDING K INT ELEV. & ENLRG. FLRPLN.

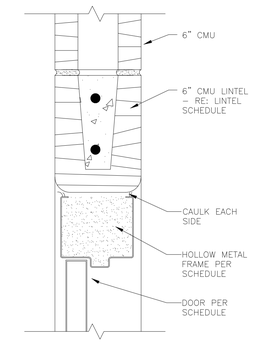
A-127-N



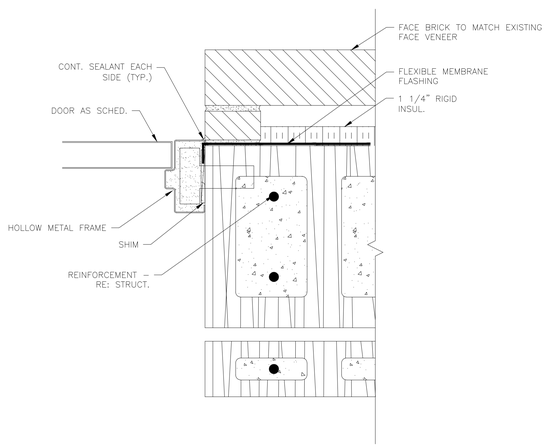
6 EXT. DOOR HEAD – TYP.
3" = 1'-0"



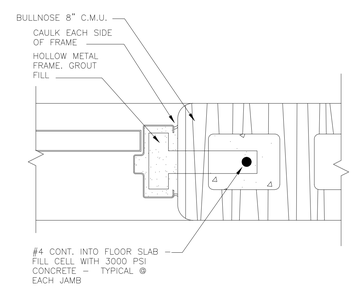
7 INT. DOOR HEAD – TYP.
3" = 1'-0"



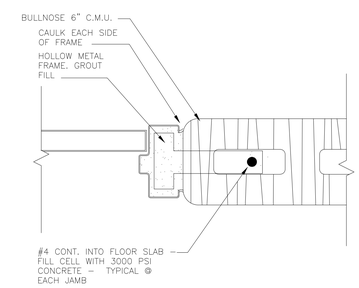
8 INT. DOOR HEAD – TYP.
3" = 1'-0"



3 EXT. DOOR JAMB – TYP.
3" = 1'-0"



4 INT. DOOR JAMB – TYP.
3" = 1'-0"



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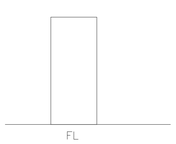
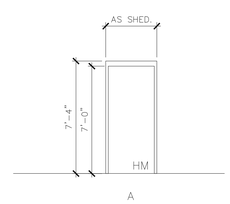
3" = 1'-0"



1 DOOR TYPES
1/4" = 1'-0"



2 DOOR FRAME TYPES
1/4" = 1'-0"

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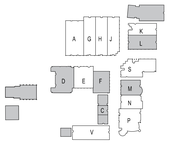

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DOOR TYPES & DETAILS

A-150-N

May, 09, 2019 – 8:59am User: cquezada
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ABBREVIATIONS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AMERICAN REFRIGERANT INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT, AIR VENT
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB, BREAK TANK
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CON	CONVERTER
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINOUS, CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CRAC	COMPUTER ROOM A/C UNIT
CRT	CATHODE RAY TUBE
CT	COOLING TOWER
CTR	CENTER
CU	COPPER
CW	COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DOUBLE DUCT CONSTANT VOLUME, DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DESIG	DESIGNATION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DS	DOWNSPOUT, DOUBLE SUCTION
DV	DOUBLE DUCT VAV
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDF	ELECTRIC DRINKING FOUNTAIN
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR EMERGENCY ENCLOSURE
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ES	END SUCTION, EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE EXPANSION TANK
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION-PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDS	FIRE DEPARTMENT SIAMESE
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FL	FLOW LINES
FLR	FLOOR
FP	FIRE PUMP
FPT	FAN POWERED TERMINAL
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FSK	FLOOR SINK
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSH	GRAND SENSIBLE HEAT
GTH	GRAND TOTAL HEAT
GV	GATE VALVE

H

HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HE	HEAT EXCHANGER
HF	HUMIDIFIER
HORIZ	HORIZONTAL
HP	HORSEPOWER, HALON PANEL
HPU	HEAT PUMP UNIT
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWC	HOT WATER CIRCULATOR
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK

P

P	PUMP, PLUMBING EQUIPMENT
PC	PLUMBING CONTRACTOR
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE, POST HYDRANT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILL
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE, REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RKVA	RUNNING KILOVOLT-AMPS
RKW	RUNNING KILOWATTS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM, REFRIGERATION MACHINE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

S	STEAM
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAN	SANITARY SEWER
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SCR	SILICON CONTROLLED RECTIFIER
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SM	SHEETMETAL
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT

T

TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CONTROL COMPRESSOR
TD	TRENCH DRAIN
TF	TRANSFER FAN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL

U

U	URINAL
UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT, VENT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VR	VARIABLE AIR VOLUME REHEAT
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC
WT	WATERTIGHT, WEIGHT

Y

Y	YARD HYDRANT

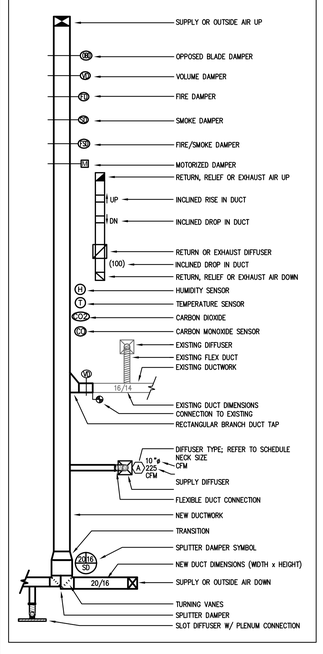
Z

Z	ZONE

MECHANICAL PIPING SYMBOLS

CWS	CONDENSER WATER SUPPLY		STRAINER WITH BLOW DOWN VALVE
CWR	CONDENSER WATER RETURN		GATE VALVE, HVAC BALANCING/STOP VALVE
CHS	CHILLED WATER SUPPLY		GLOBE VALVE
CHR	CHILLED WATER RETURN		BALL VALVE
CD	CONDENSATE DRAIN LINE		BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
	CAP ON END OF PIPE		OS&Y VALVE
	ELBOW UP		CHECK VALVE
	ELBOW DOWN		BUTTERFLY VALVE
	VALVE IN DROP		TWO-WAY MODULATING CONTROL VALVE
	VALVE IN RISE		THREE-WAY MODULATING CONTROL VALVE
	DIRECTION OF FLOW		SOLENOID VALVE
	DIRECTION OF SLOPE DOWN		PRESSURE REDUCING VALVE
	CONCENTRIC REDUCER		GAS REGULATOR
	ECCENTRIC REDUCER		GAS COCK
	TEE OUTLET UP	FCS	SPRINKLER FLOOR CONTROL STATION
	TEE OUTLET DOWN		MANUAL AIR VENT
	UNION		AUTOMATIC AIR VENT
	FLANGE		T&P RELIEF VALVE
	PIPE ANCHOR		PRESSURE GAUGE WITH GAUGE COCK
	EXPANSION JOINT		STEAM TRAP
	PRESSURE AND TEMPERATURE TAP		WATER METER
	FLOW VENTURI		FLEXIBLE CONNECTION
	VACUUM BREAKER		
	VACUUM RELIEF VALVE		
	BACKFLOW PREVENTOR		
	THERMOMETER		
	CIRCULATING PUMP		

DUCTWORK SYMBOLS - NEW



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AND

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MECHANICAL SYMBOLS AND ABBREVIATIONS

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DBR Project Number	198008.000

DM	MG	JCH	TL	–

M0.01N

May 08, 2019 - 2:18pm User: mgarza
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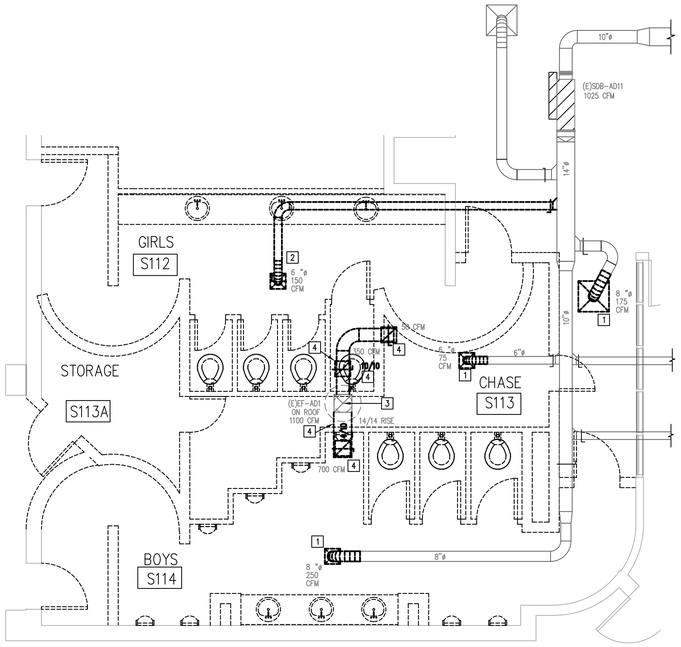
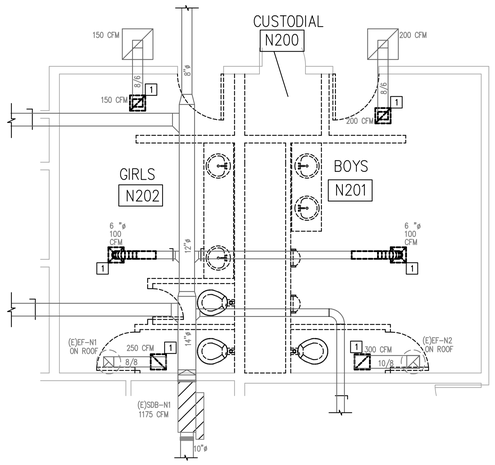


3 MD2.11N **ENLARGED MECHANICAL DEMOLITION PLAN**
1/4"=1'-0"



4 MD2.11N **ENLARGED MECHANICAL DEMOLITION PLAN**
1/4"=1'-0"

MECHANICAL GENERAL DEMO NOTES

A. COORDINATE DEMOLITION WORK WITH ELECTRICAL AND OTHER DISCIPLINES AS REQUIRED.

B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE DISCOVERED THE FULL SCOPE OF WORK INVOLVED WITH THE MODIFICATION OF THIS EXISTING SPACE. THE SCOPE OF THE WORK SHALL INCLUDE ALL MATERIALS FOR A COMPLETE INSTALLATION INCLUDING DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED TO ACCOMMODATE THE INDICATED REMODELING. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON THE DRAWINGS. ALL HVAC SHOWN ARE TAKEN FROM AS-BUILT HARDCOPY AND MUST BE FIELD VERIFIED.

C. WHEN AN EQUIPMENT IS IDENTIFIED TO BE REMOVED, THE OWNER HAS FIRST RIGHT OF REFUSAL BEFORE DISPOSING OF THAT EQUIPMENT. PROVIDE DISTRICT ONE WEEK NOTICE PRIOR TO DEMOLITION.

D. PROVIDE ALL NECESSARY CLEAR PATH TO MOVE DEMOLISHED EQUIPMENT OUT OF THE FACILITY AS WELL TO BRING NEW EQUIPMENT INTO THE BUILDING. MODIFY EXISTING PIPING, DUCTWORK CONDUITS, AS REQUIRED TO COMPLETE THE DEMOLITION.

MECHANICAL DEMO KEYED NOTES

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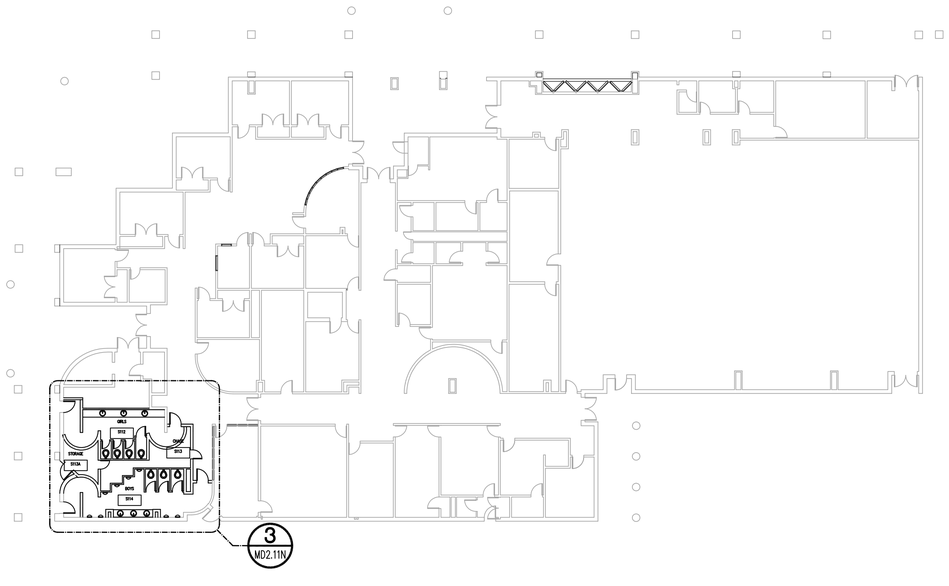
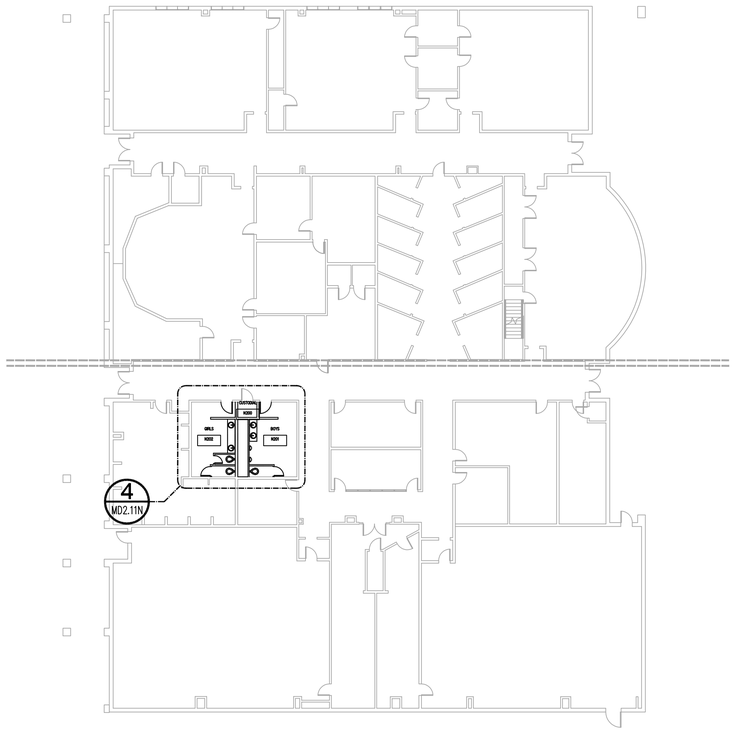
4 REMOVE EXISTING EXHAUST DUCT TAP FROM VERTICAL DUCT RISE AT LOCATION INDICATED ON PLAN. REMOVE ASSOCIATED AIR DEVICES AND DAMPERS. TEMPORARILY SEAL. REFER TO M2.11N FOR NEW WORK.



1 MD2.11N **MECHANICAL DEMOLITION PLAN - BUILDING S**
1/16"=1'-0"



2 MD2.11N **MECHANICAL DEMOLITION PLAN - BUILDING N**
1/16"=1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
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F 956.365.4822

3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
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F 956.622.7313

Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
78295
LICENSED
PROFESSIONAL ENGINEER
05-10-2019

COLLEGE³ READY.CONNECTED.COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING S & BUILDING N MECHANICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

MD2.11N

May 08, 2019 - 1:52pm User: mgarza
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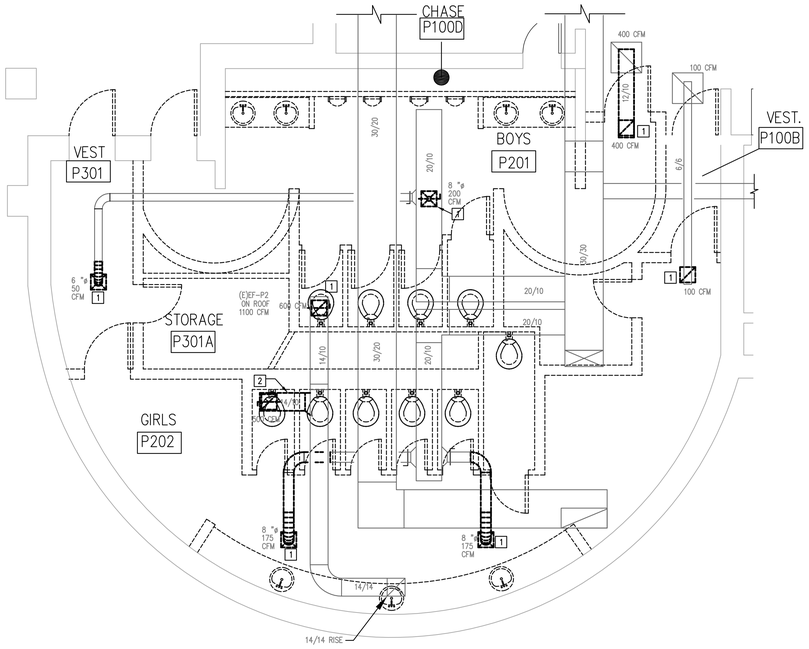
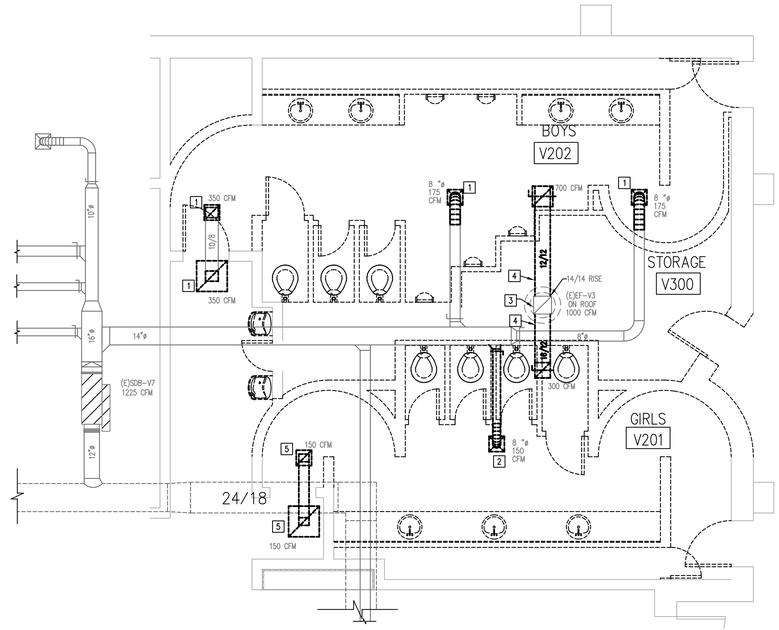


3 ENLARGED MECHANICAL DEMOLITION PLAN
MD2.12N 1/4"=1'-0"



4 ENLARGED MECHANICAL DEMOLITION PLAN
MD2.12N 1/4"=1'-0"

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A. COORDINATE DEMOLITION WORK WITH ELECTRICAL AND OTHER DISCIPLINES AS REQUIRED.

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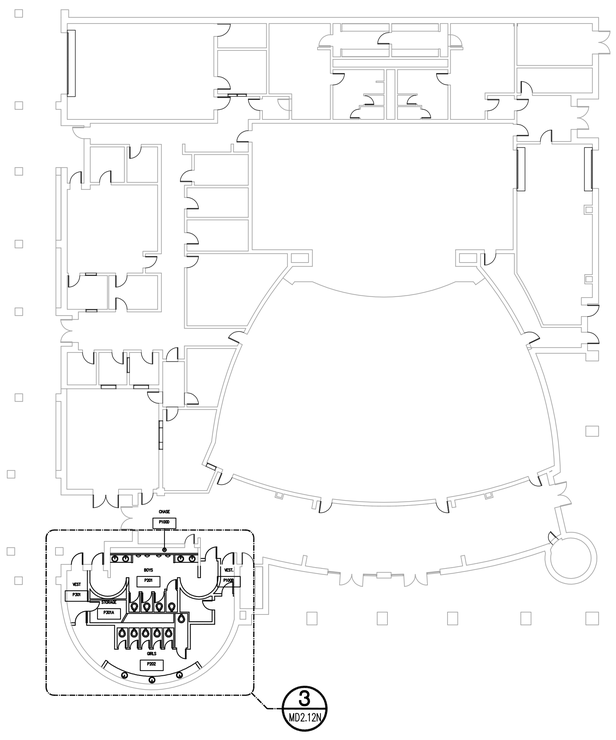
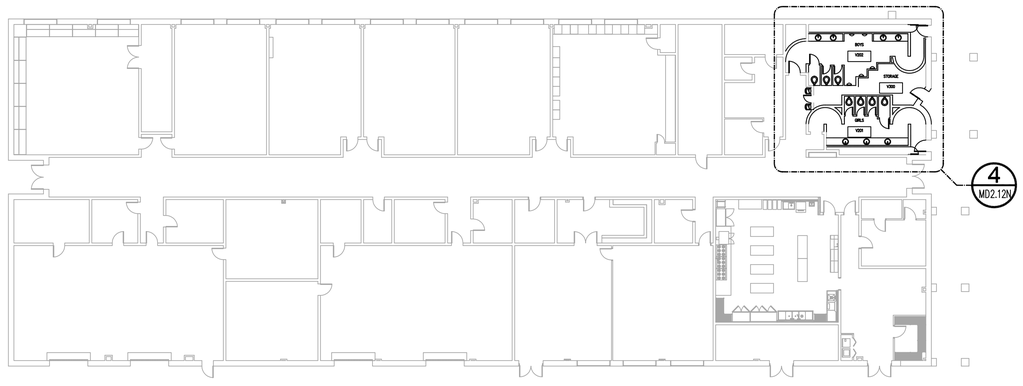
5 REMOVE EXISTING AIR DEVICE AND ASSOCIATED DUCTWORK IN ITS ENTIRETY. REFER TO M2.12N FOR NEW WORK.



1 MECHANICAL DEMOLITION PLAN - BUILDING P
MD2.12N 1/16"=1'-0"



2 MECHANICAL DEMOLITION PLAN - BUILDING V
MD2.12N 1/16"=1'-0"

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000
DM | MG | JCH | TL | –	

GIGNAC | ARCHITECTS
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3700 N. 10TH, SUITE 205
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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
78295
LICENSED
PROFESSIONAL ENGINEER
05-10-19

COLLEGE READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING P & BUILDING V MECHANICAL DEMOLITION PLAN

MD2.12N

May 08, 2019 - 2:08pm User: mgarza
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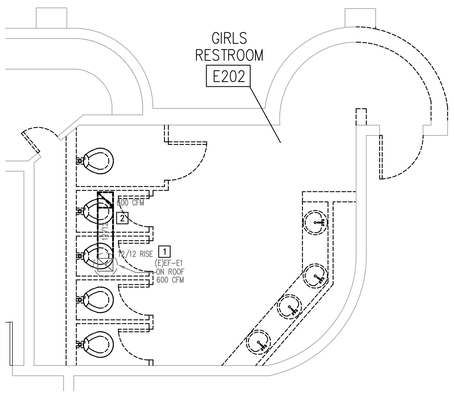
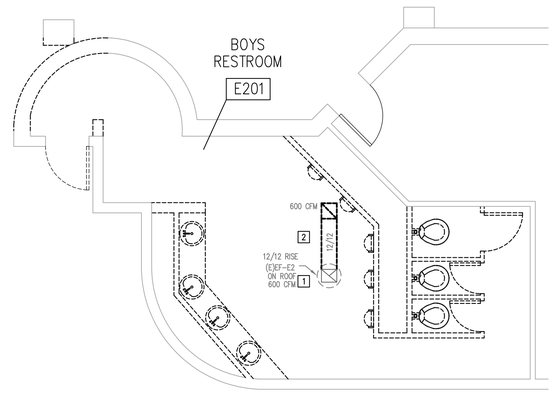
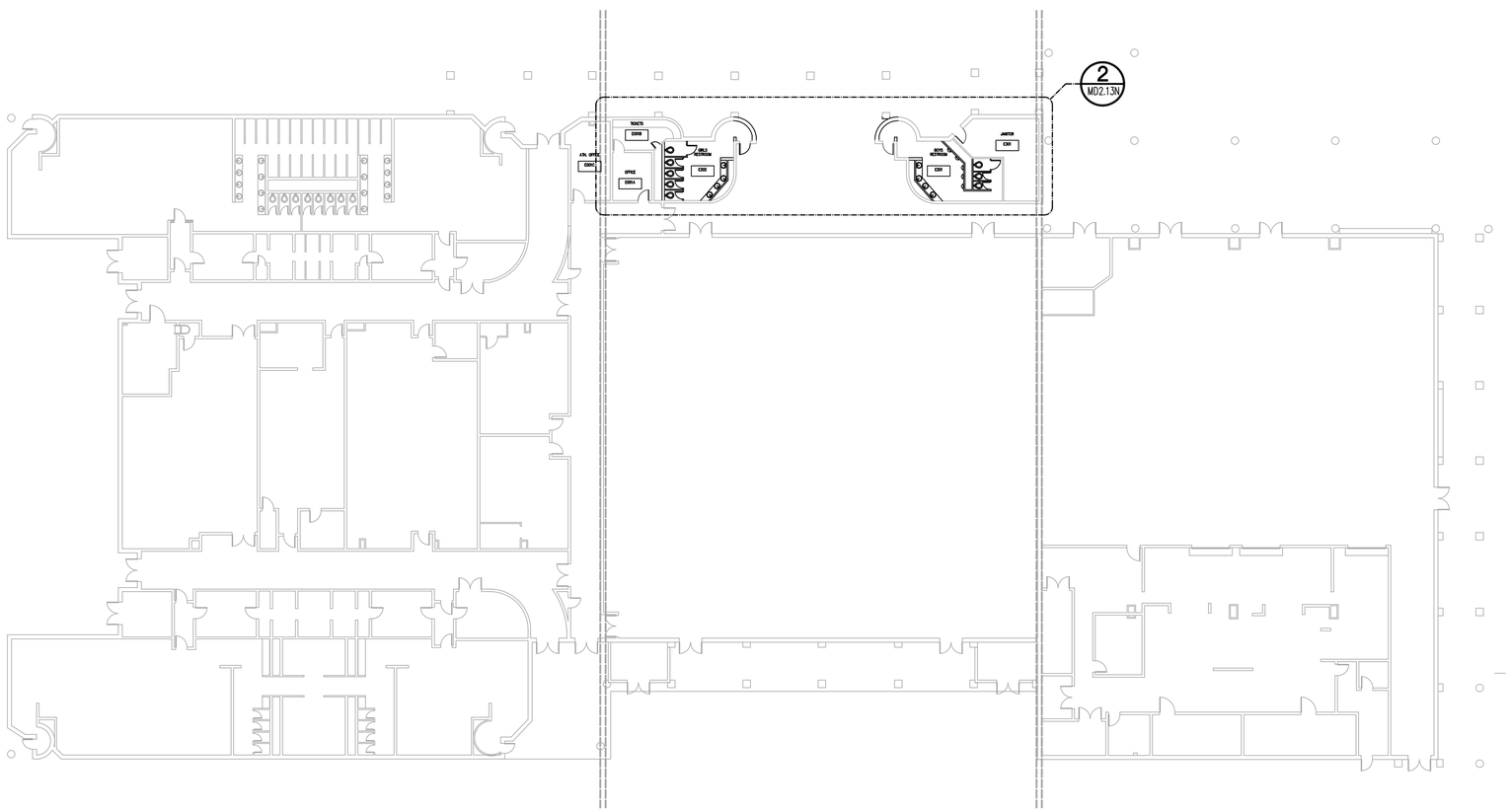




2 MD2.13N ENLARGED MECHANICAL DEMOLITION PLAN

1/4"=1'-0"



1 MD2.13N MECHANICAL DEMOLITION PLAN - BUILDING E

1/16"=1'-0"

MECHANICAL GENERAL DEMO NOTES

A. COORDINATE DEMOLITION WORK WITH ELECTRICAL AND OTHER DISCIPLINES AS REQUIRED.

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GIGNAC | ARCHITECTS

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
76295
LICENSED
PROFESSIONAL ENGINEER
05-10-2019

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING E MECHANICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000

DM	MG	JCH	TL	–

MD2.13N

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MECHANICAL GENERAL DEMO NOTES

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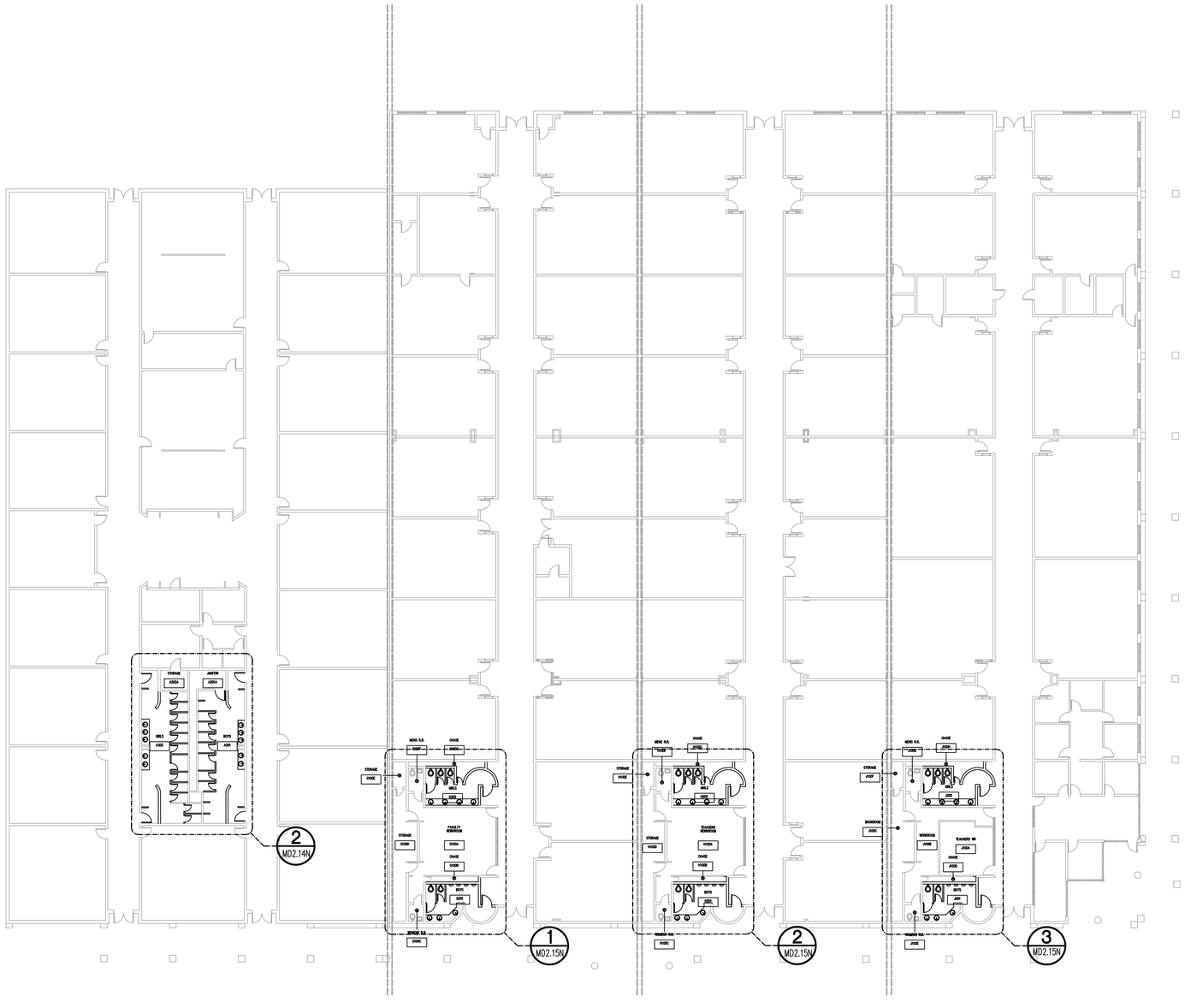
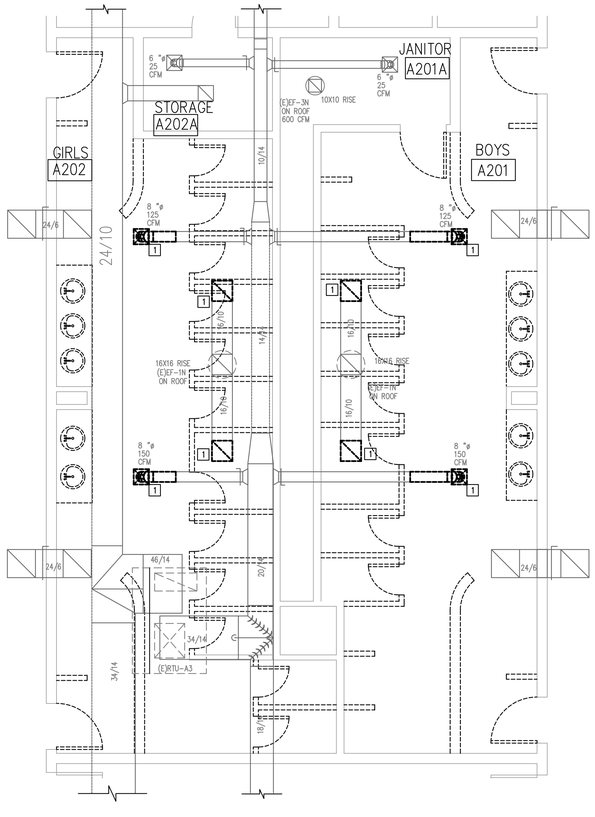


1 MD2.14N MECHANICAL DEMOLITION PLAN - BUILDING A-G-H-J
1/16"=1'-0"



2 MD2.14N ENLARGED MECHANICALDEMOLITION PLAN
1/4"=1'-0"

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416 STARR STREET
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Consultants:

CIVIL:
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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING A-G-H-J MECHANICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

MD2.14N

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MECHANICAL GENERAL DEMO NOTES

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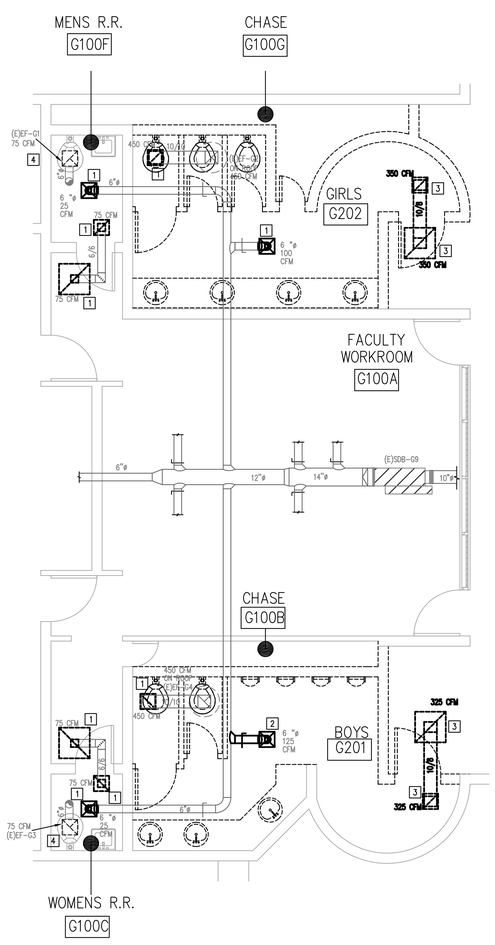
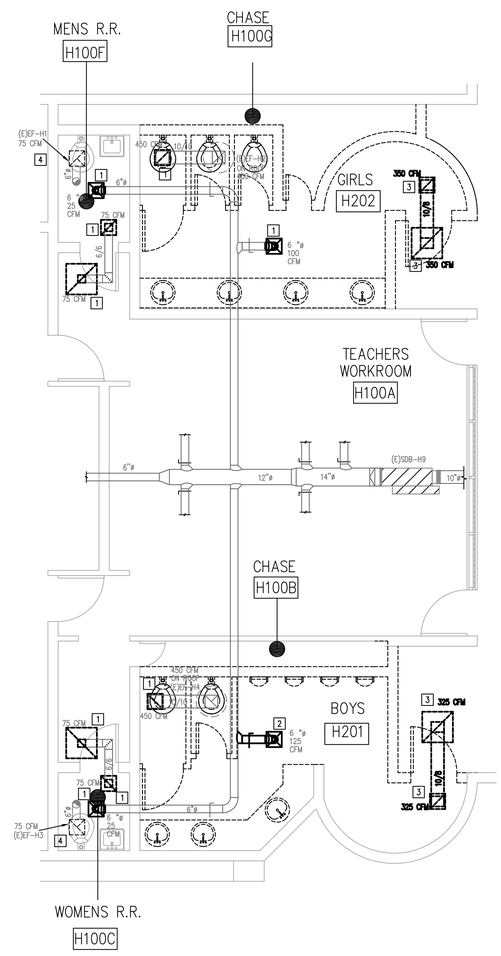
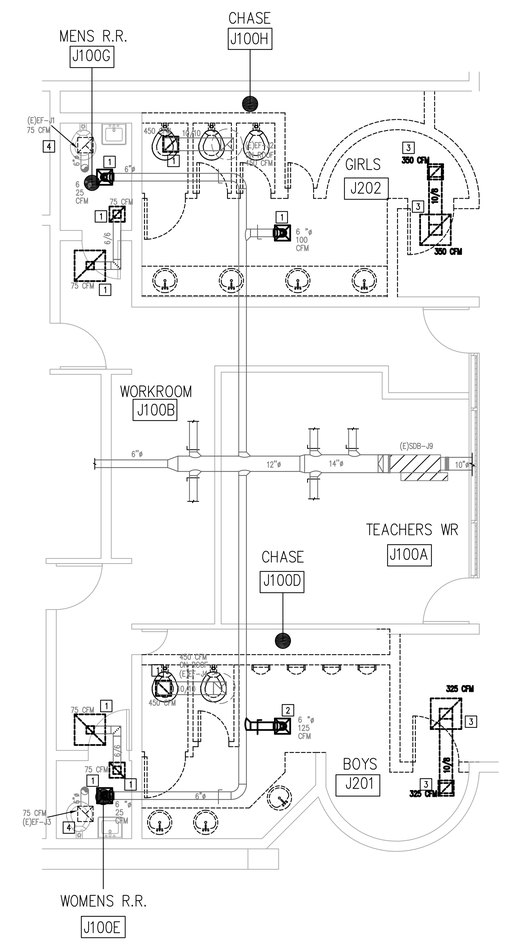


1 MD2.15N ENLARGED MECHANICAL DEMOLITION PLAN
1/4"=1'-0"



2 MD2.15N ENLARGED MECHANICAL DEMOLITION PLAN
1/4"=1'-0"



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1/4"=1'-0"

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING A-G-H-J MECHANICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

MD2.15N

May 08, 2019 - 2:14pm User: mgarza
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MECHANICAL GENERAL DEMO NOTES

A. COORDINATE DEMOLITION WORK WITH ELECTRICAL AND OTHER DISCIPLINES AS REQUIRED.

B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE DISCOVERED THE FULL SCOPE OF WORK INVOLVED WITH THE MODIFICATION OF THIS EXISTING SPACE. THE SCOPE OF THE WORK SHALL INCLUDE ALL MATERIALS FOR A COMPLETE INSTALLATION INCLUDING DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED TO ACCOMMODATE THE INDICATED REMODELING. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON THE DRAWINGS. ALL HVAC SHOWN ARE TAKEN FROM AS-BUILT HARDCOPY AND MUST BE FIELD VERIFIED.

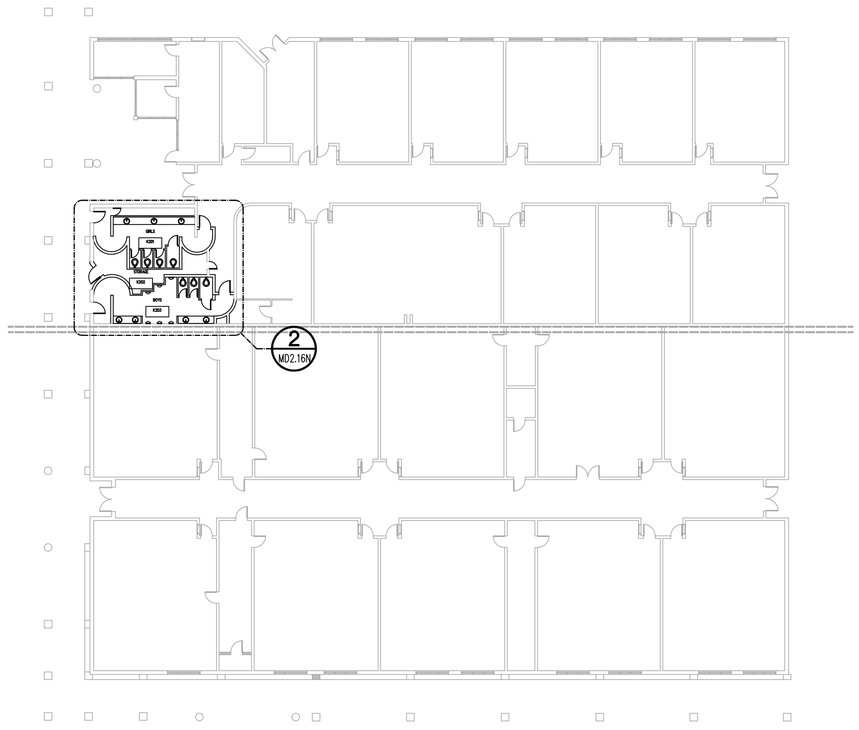
C. WHEN AN EQUIPMENT IS IDENTIFIED TO BE REMOVED, THE OWNER HAS FIRST RIGHT OF REFUSAL BEFORE DISPOSING OF THAT EQUIPMENT. PROVIDE DISTRICT ONE WEEK NOTICE PRIOR TO DEMOLITION.

D. PROVIDE ALL NECESSARY CLEAR PATH TO MOVE DEMOLISHED EQUIPMENT OUT OF THE FACILITY AS WELL TO BRING NEW EQUIPMENT INTO THE BUILDING. MODIFY EXISTING PIPING, DUCTWORK CONDUITS, AS REQUIRED TO COMPLETE THE DEMOLITION.

MECHANICAL DEMO KEYED NOTES

1 EXISTING AIR DEVICE SHALL BE REMOVED. ASSOCIATED BRANCH DUCTWORK SHALL REMAIN AND TEMPORARILY CAPPED AND SEALED FOR NEW WORK RECONNECTION. ALL EXISTING MAIN DUCTWORK SHALL REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT QUANTITIES AND LOCATIONS OF EXISTING AIR DEVICES AND ASSOCIATED DUCTWORK. REFER TO M2.16N FOR NEW WORK.

2 REMOVE EXISTING AIR DEVICE AND ASSOCIATED DUCTWORK IN ITS ENTIRETY. REFER TO M2.16N FOR NEW WORK.



1 M02.16N MECHANICAL DEMOLITION PLAN - BUILDING K
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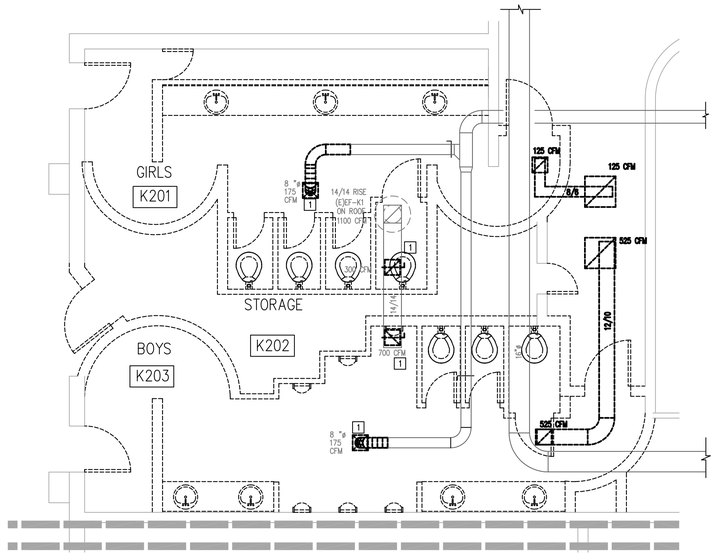

2 M02.16N ENLARGED MECHANICALDEMOLITION PLAN
1/4"=1'-0"

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Consultants:

CIVIL:
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GREEN, RUBIANO & ASSOCIATES INC.

MEP:
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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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MD2.16N

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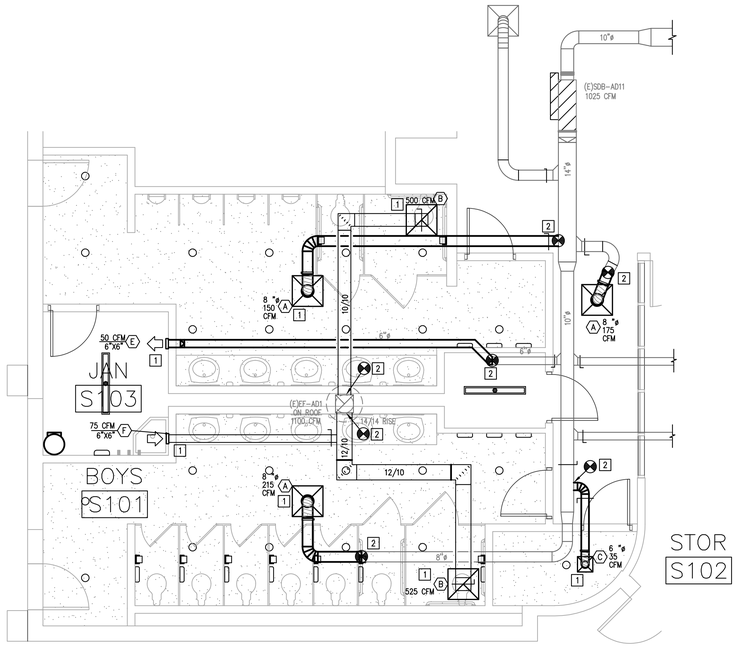
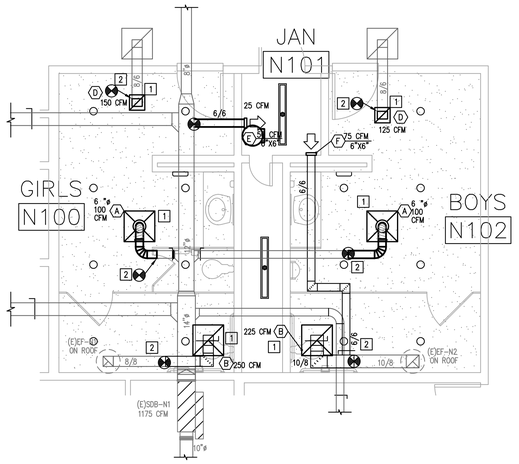


3 ENLARGED MECHANICAL PLAN
M2.11N
1/4"=1'-0"



4 ENLARGED MECHANICAL PLAN
M2.11N
1/4"=1'-0"

GENERAL MECHANICAL NOTES

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT COMPLETE MECHANICAL SYSTEMS BE FURNISHED, INSTALLED, TESTED, AND READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.

B. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER'S DRAWINGS AND CUT SHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF HOUSEKEEPING PADS.

C. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET IN TOTAL LENGTH.

D. ALL DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR LOW PRESSURE DUCTWORK.

E. EXACT LOCATION OF GRILLES AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.

F. DIVISION 23 MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.

G. PROVIDE INSULATION FOR ALL PIPING AND DUCTWORK THAT MEETS THE LATEST EDITION OF IECC.

H. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL NEW 90 DEGREE ELBOWS.

I. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.

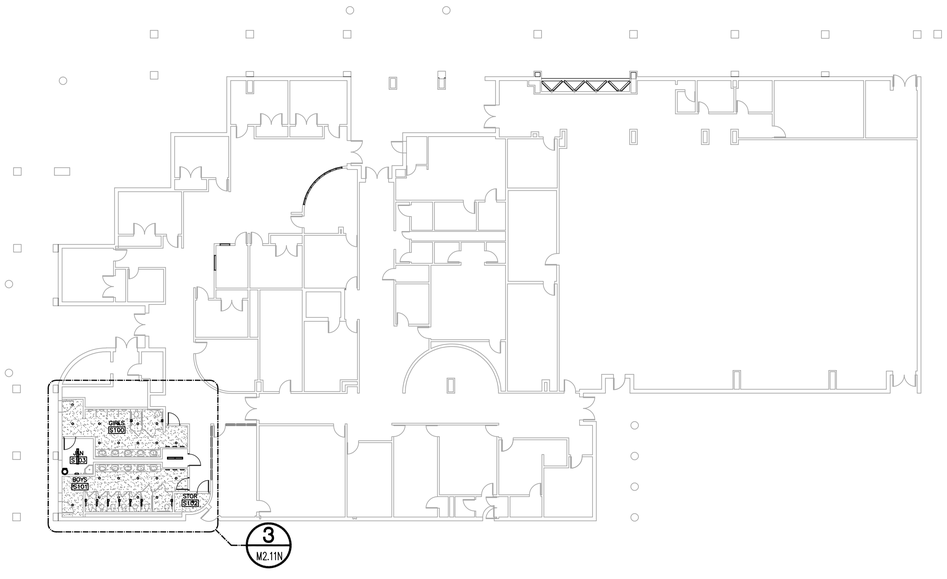
J. ALL SUPPLY AIR TAPS TO DIFFUSERS AND GRILLES SHALL BE SUPPLIED WITH MANUAL VOLUME DAMPERS. PROVIDE YOUNG'S REGULATORS FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.

K. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

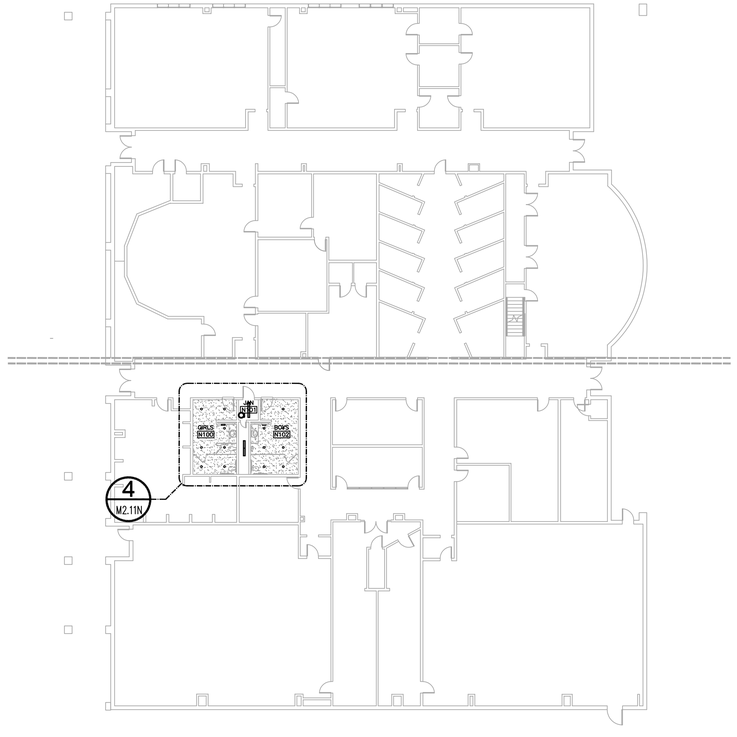
MECHANICAL KEYED NOTES

1 PROVIDE NEW AIR DEVICE AS SCHEDULED. EXTEND WITH NEW DUCTWORK AS REQUIRED AND CONNECT TO EXISTING DUCTWORK. COORDINATE FINAL LOCATION OF AIR DEVICE WITH LIGHTS. BALANCE TO CFM INDICATED ON PLAN.

2 CONNECT NEW DUCTWORK TO EXISTING DUCTWORK. SIZE AS NOTED ON PLAN.



1 MECHANICAL PLAN - BUILDING S
M2.11N
1/16"=1'-0"



2 MECHANICAL PLAN - BUILDING N
M2.11N
1/16"=1'-0"

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MEP:
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956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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M2.11N

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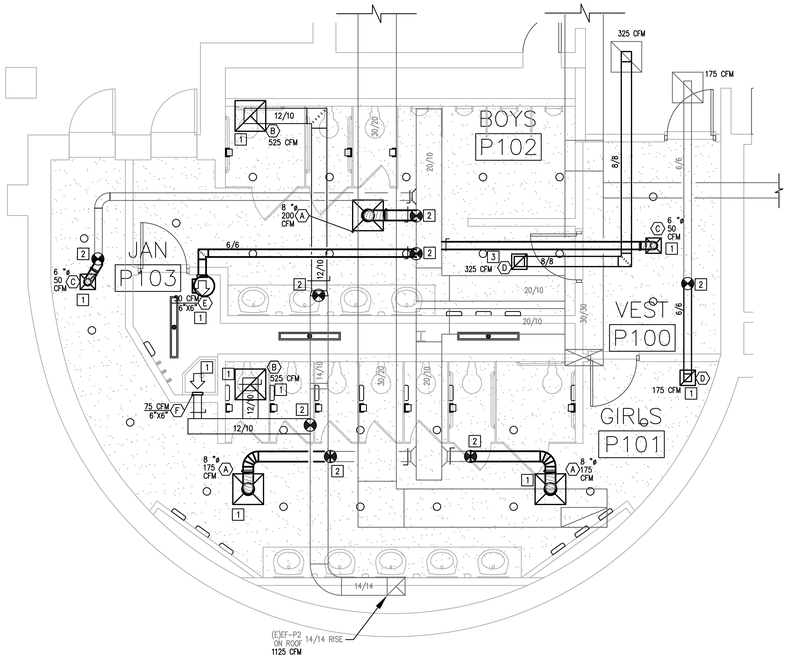
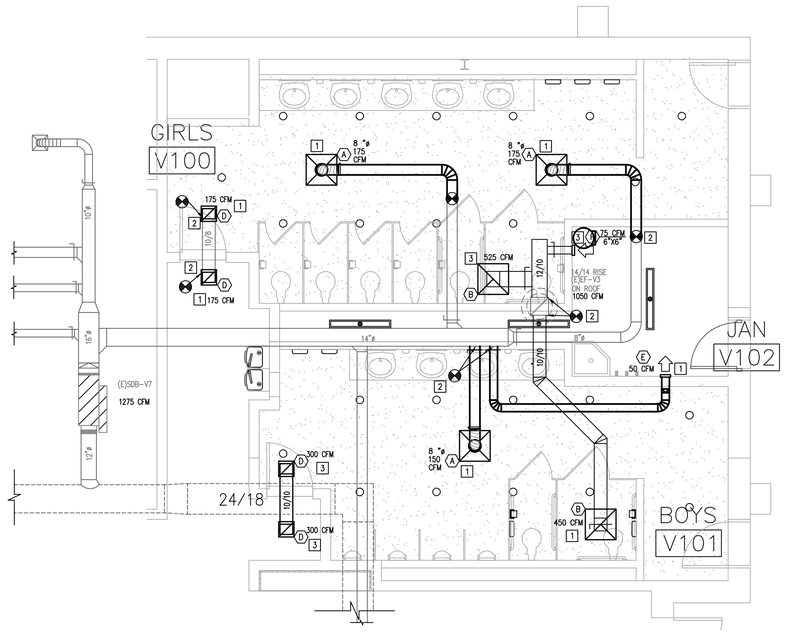


3 M2.12N ENLARGED MECHANICAL PLAN

1/4"=1'-0"



4 M2.12N ENLARGED MECHANICAL PLAN

1/4"=1'-0"

GENERAL MECHANICAL NOTES

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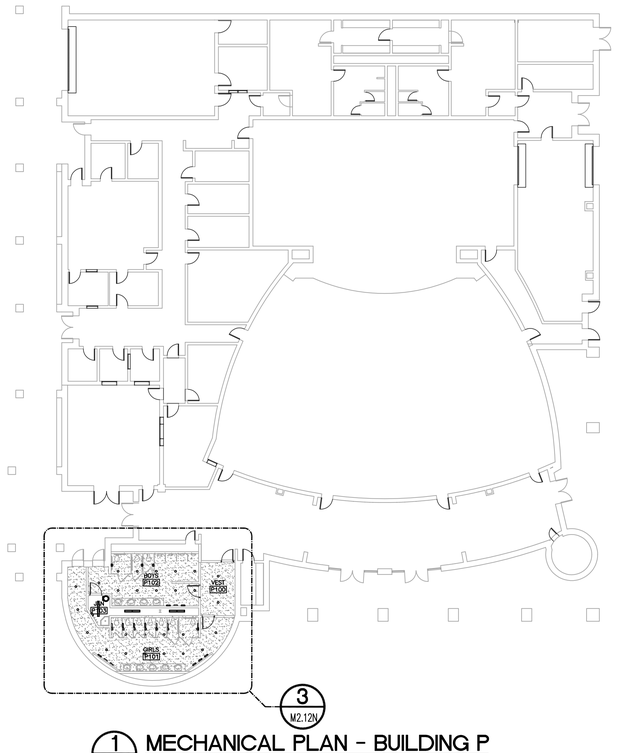
2 CONNECT NEW DUCTWORK TO EXISTING DUCTWORK. SIZE AS NOTED ON PLAN.

3 PROVIDE NEW AIR DEVICE AS SCHEDULED. PROVIDE NEW DUCTWORK. COORDINATE FINAL LOCATION OF AIR DEVICE WITH LIGHTS. BALANCE TO CFM INDICATED ON PLAN. SIZE DUCTWORK AS NOTED ON PLAN.



1 M2.12N MECHANICAL PLAN - BUILDING P

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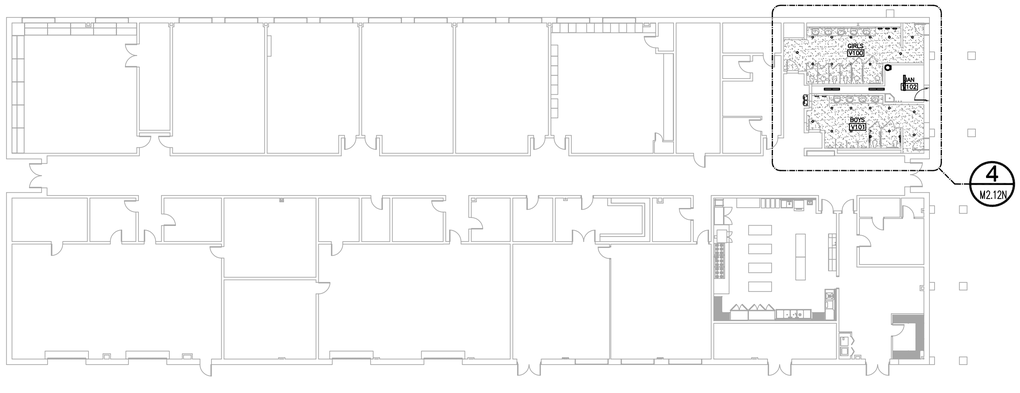

2 M2.12N MECHANICAL PLAN - BUILDING V

1/16"=1'-0"

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200 South 10th Street Suite 901
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Consultants:

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Revisions:

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BUILDING P & BUILDING V ELECTRICAL DEMOLITION PLAN

M2.12N

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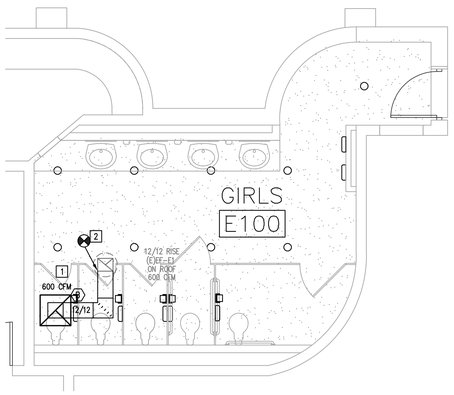

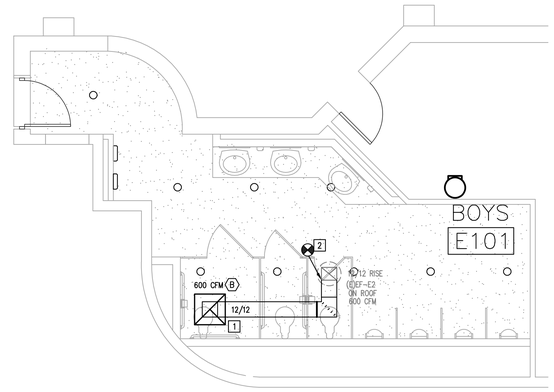

2 M2.13N ENLARGED MECHANICAL PLAN

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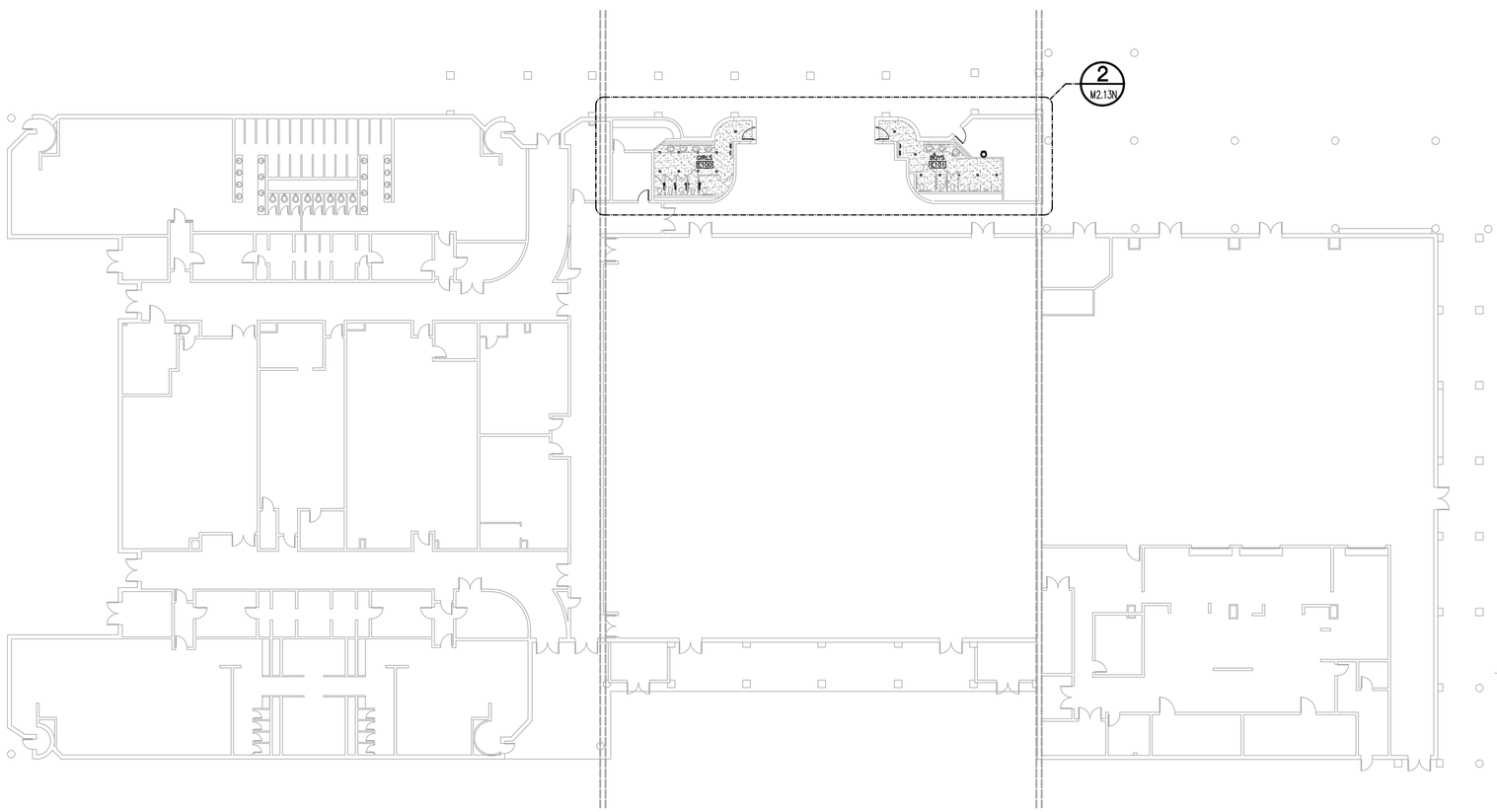

1 M2.13N MECHANICAL PLAN - BUILDING E

1/16"=1'-0"

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J. ALL SUPPLY AIR TAPS TO DIFFUSERS AND GRILLES SHALL BE SUPPLIED WITH MANUAL VOLUME DAMPERS. PROVIDE YOUNG'S REGULATORS FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.

K. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

MECHANICAL KEYED NOTES

1 PROVIDE NEW AIR DEVICE AS SCHEDULED. EXTEND WITH NEW DUCTWORK AS REQUIRED AND CONNECT TO EXISTING DUCTWORK. COORDINATE FINAL LOCATION OF AIR DEVICE WITH LIGHTS. BALANCE TO CFM INDICATED ON PLAN.

2 CONNECT NEW DUCTWORK TO EXISTING DUCTWORK. SIZE AS NOTED ON PLAN.

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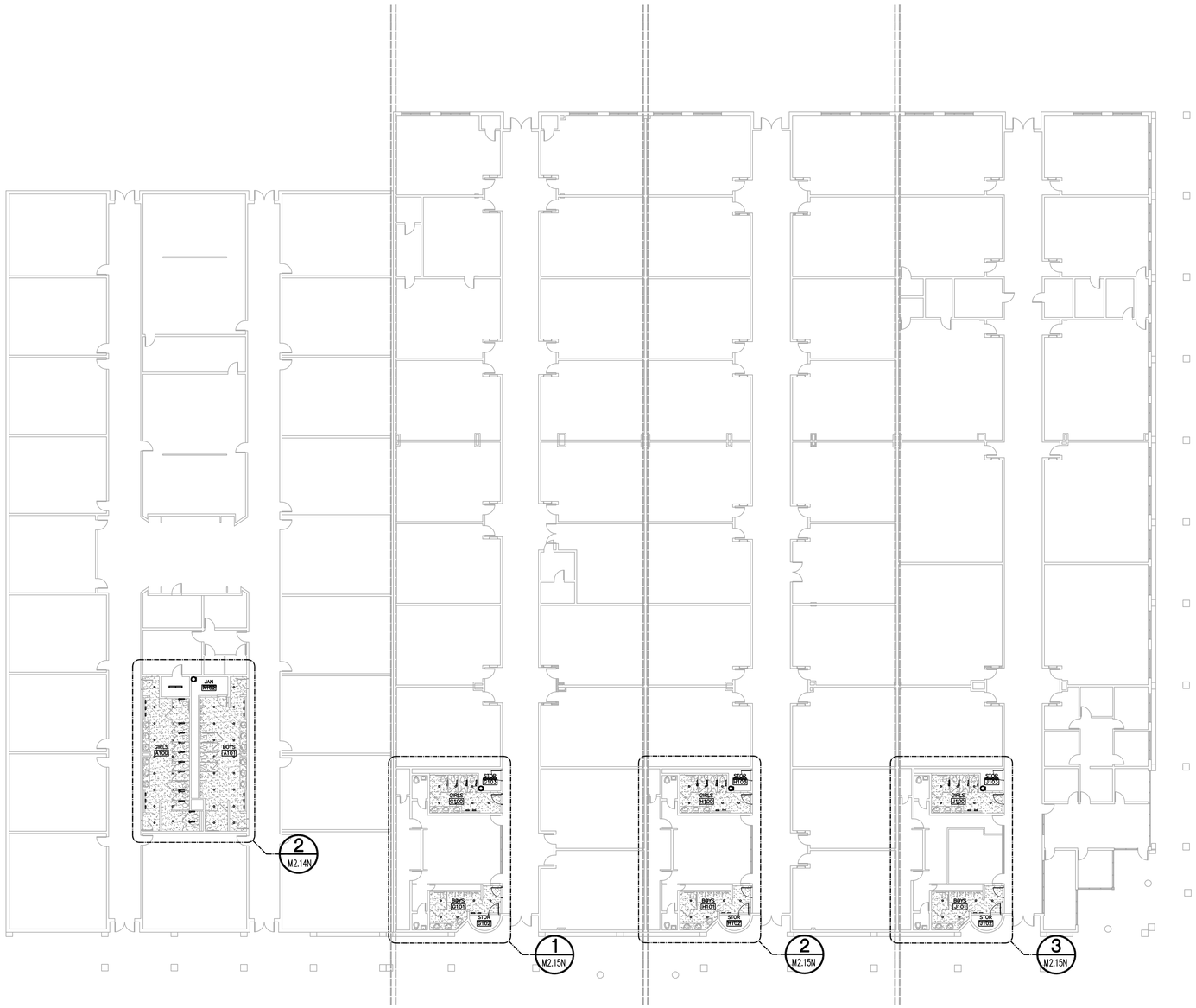
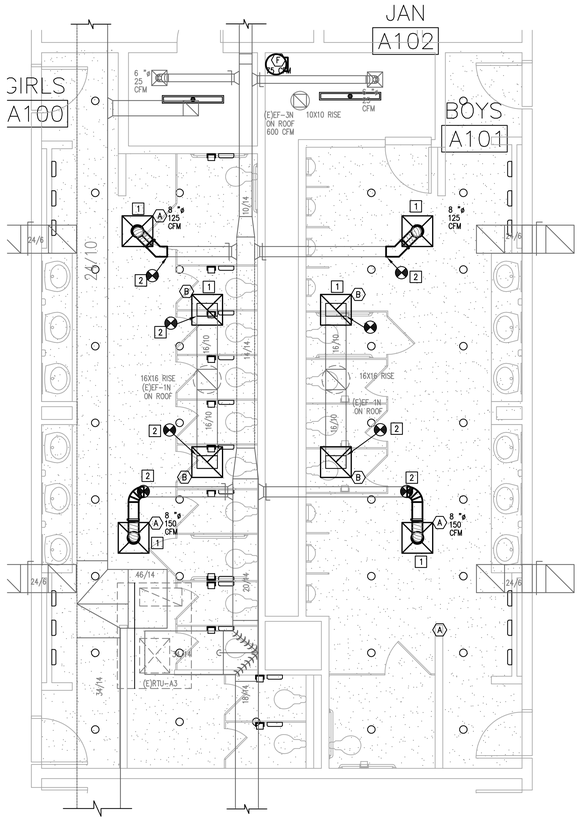


1 M2.14N MECHANICAL PLAN - BUILDING A-G-H-J
1/16"=1'-0"



2 M2.14N ENLARGED MECHANICAL PLAN
1/4"=1'-0"

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
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Revisions:

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BUILDING A-G-H-J MECHANICAL DEMOLITION PLAN

DBR
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Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000

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GENERAL MECHANICAL NOTES

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT COMPLETE MECHANICAL SYSTEMS BE FURNISHED, INSTALLED, TESTED, AND READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.

B. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER'S DRAWINGS AND CUT SHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF HOUSEKEEPING PADS.

C. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET IN TOTAL LENGTH.

D. ALL DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR LOW PRESSURE DUCTWORK.

E. EXACT LOCATION OF GRILLES AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.

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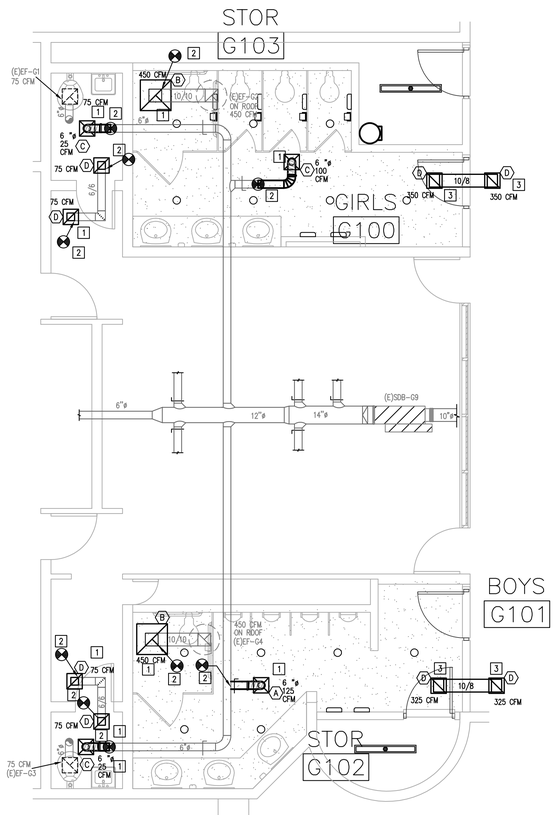

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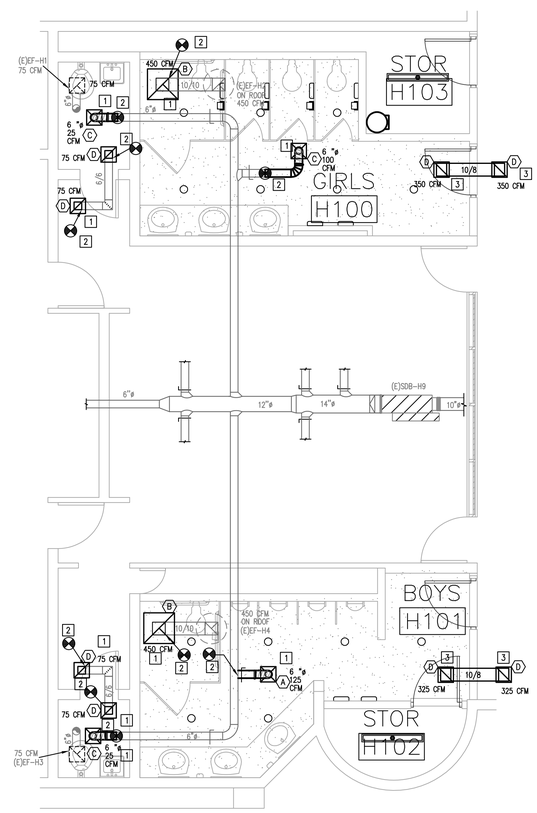
1/4"=1'-0"



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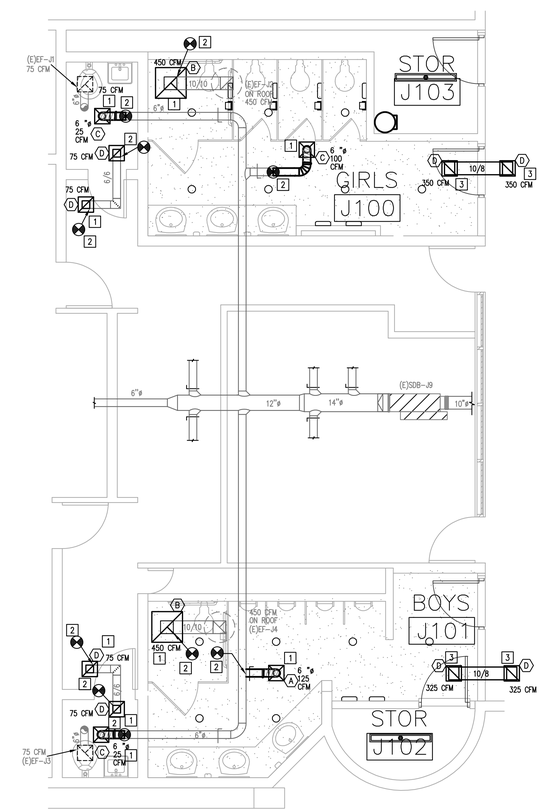

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KEYPLAN

Project Number:	19.04
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BUILDING A-G-H-J MECHANICAL DEMOLITION PLAN

DBR
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TBPE Firm Registration No. 2234

DBR Project Number	198008.000

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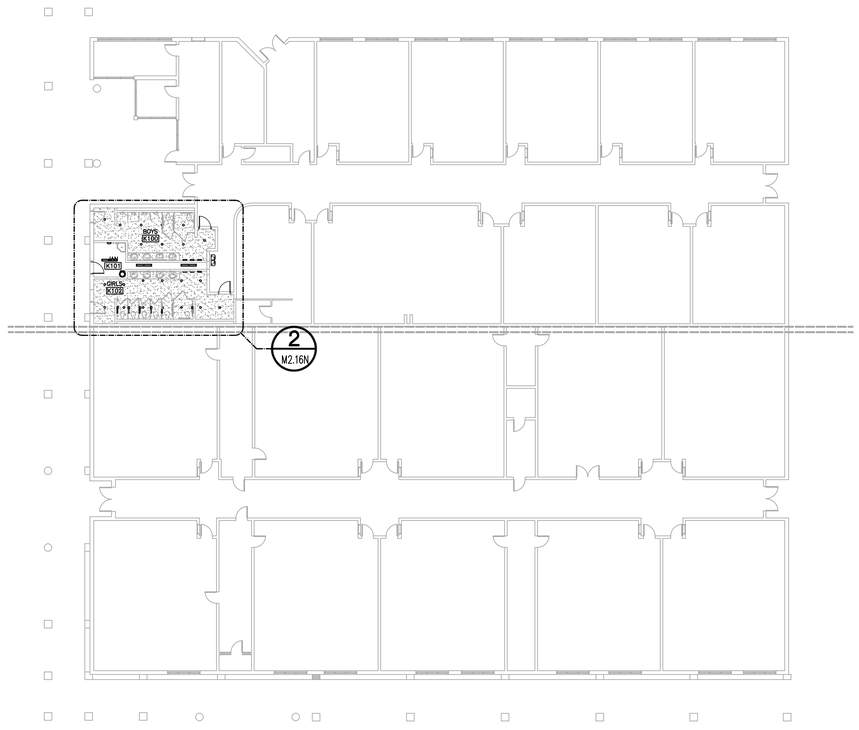

1 M2.16N MECHANICAL PLAN - BUILDING K
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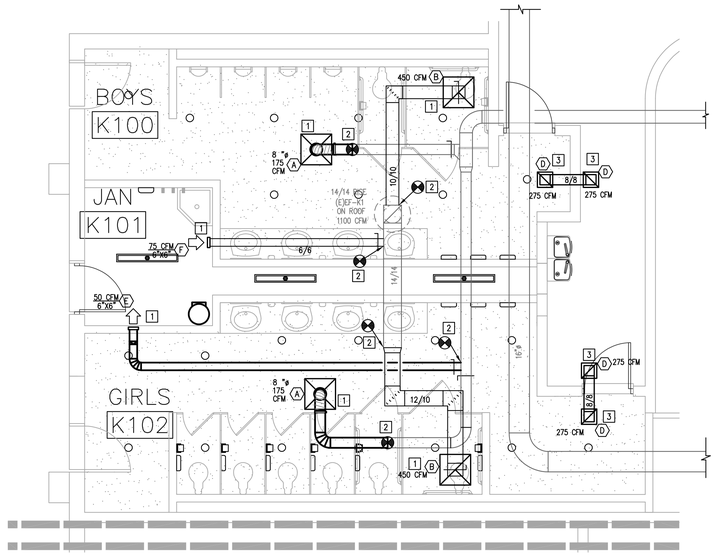

2 M2.16N ENLARGED MECHANICAL PLAN
1/4"=1'-0"

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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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KEYPLAN

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BUILDING K MECHANICAL DEMOLITION PLAN

M2.16N

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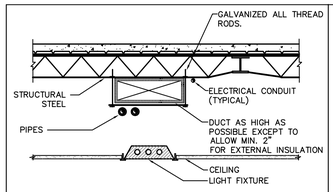
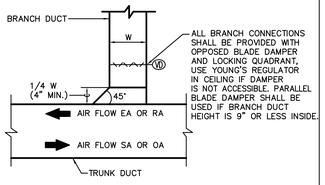


NOTES:

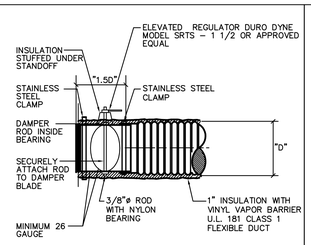
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

1 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



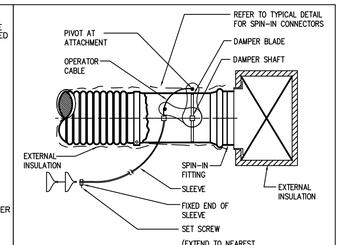
NOTE: THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

2 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE



NOTE: 1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D") MINIMUM 3'–0" AND MAXIMUM 6'–0"
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS
3. ALL JOINTS SHALL BE SEALED WITH MASTIC AND FIBER CLOTH PER SPECIFICATIONS.

4 SPIN-IN DETAIL
NOT TO SCALE



NOTE: MOUNT OPERATOR CRANK AND CABLE PLATFORM ON TOP OF EXTERNAL INSULATION AT DAMPER.

5 REMOTE SPIN-IN DAMPER OPERATOR
NOT TO SCALE

AIR DEVICE SCHEDULE

MARK	MANUFACTURER/MODEL	TYPE	NC	REMARKS
A	TITUS/TMS-AA	24"X24" SUPPLY	25	ALUMINUM CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
B	TITUS/50F	24"X24" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.
C	TITUS/TMS	12"X12" SUPPLY	25	STEEL CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
D	TITUS/50F	12"X12" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.
E	TITUS/300FS	SIDEWALL SUPPLY	25	ALUMINUM CONSTRUCTION. SEE MECHANICAL PLAN FOR SIZE.
F	TITUS/350FL	SIDEWALL RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.SEE MECHANICAL PLAN FOR SIZE.

NOTES:

1. PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN.
2. PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL INCLUDE PIPING, CONDUIT, DUCTWORK, AND STRUCTURAL MEMBERS.
3. PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CEILING UNLESS REFLECTED CEILING PLAN INDICATES HARD CEILING. IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING. PROVIDE REMOTE OPERATOR DAMPER AND CONTROL.
4. UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE. FOR ROUND NECK DIFFUSERS:
5. WHERE THERE IS NO ACCESS ABOVE CEILING, PROVIDE REMOTE OPERATED DAMPERS WITH THROUGH THE AIR DEVICE CONTROL.
   6" DIA: 0-120 CFM
   8" DIA: 125-220 CFM
   10" DIA: 225-380 CFM
   12" DIA: 385-600 CFM

1 / M4.01N MECHANICAL DETAILS AND SCHEDULES
NOT TO SCALE

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MECHANICAL DETAILS AND SCHEDULES

M4.01N

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ABBREVIATIONS

A

A	AMPERES
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR, ABOVE COUNTER
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNICATOR
AP	ACCESS PANEL, ALARM PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AVG.	AVERAGE
AUX.	AUXILIARY
AWG.	AMERICAN WIRE GAUGE

B

BAS	BUILDING AUTOMATION SYSTEM
BC	BELOW COUNTER
BKR	BREAKER
BLDG.	BUILDING

C

C	CONDUIT, CELSIUS
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CWP	CONDENSER WATER PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CIRC	CIRCULATING
CKT	CIRCUIT
CL	CENTERLINE
CLG.	CEILING
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT.	CONTINUOUS,CONTINUATION
CONTR.	CONTROLLER, CONTRACTOR
CP.	CIRCULATING PUMP
CPUC	CPU CHILLER
CR	CARD READER, CORD REEL
CRU	CONDENSATE RETURN UNIT
CT	CURRENT TRANSFORMER, COOLING TOWER
CTR	CENTER
CU	COPPER

D

dB	DECIBEL
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DR	DROPPED RECEPTACLE
DS	DAYLIGHT SENSOR
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DXFC	DX FAN COIL UNIT
DZ	DAYLIGHT ZONE

E

(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
E.C.	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMCS	ENERGY MANAGEMENT AND CONTROLS SYSTEM
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
ENCL.	ENCLOSURE
ENGR.	ENGINEER
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
(ER)	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST

F

F	FAHRENHEIT, FAN, FIRE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FF	FURNITURE FEED
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FP	FIRE PUMP, FAN POWERED
FPTB	FAN POWERED TERMINAL BOX
FRZR	FREEZER
FS	FUSED SWITCH, FLOW SWITCH
FSD	MOTORIZED FIRE SMOKE DAMPER
FT	FOOT, FEET
FTL	FEED-THRU LUGS
FUT	FUTURE
FVNR	FULL-VOLTAGE, NON-REVERSING

G

GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
GUH	GAS UNIT HEATER

H

HACR	HEATING, AIR CONDITIONING RATED CIRCUIT BREAKER
HD	ELECTRIC HAND DRYER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HS	HAND SET
HSC	HAND SCANNER
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVU	HEATING/ VENTILATING UNIT
HWB	HOT WATER BOILER
HWC	HOT WATER CIRCULATOR
HWP	HEATING WATER PUMP
HZ	HERTZ

I

ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCH
INCAND	INCANDESCENT
INT	INTERNAL, INTERIOR

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
kVA	KILOVOLT- AMPS
kW	KILOWATT
kWH	KILOWATT-HOUR

L

LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE TRANSFORMER
LVL	LEVEL

M

M	METER
MAP	MASTER ALARM PANEL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MV	MERCURY VAPOR

N

N3R	NEMA 3R ENCLOSURE
N4X	NEMA 4X ENCLOSURE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRICAL
OPG	OPENING

P

P	POLE, PUMP
PB	PUSHBUTTON
PC	PHOTOCELL
PH	PHASE
PL	PILOT LIGHT
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
POS	POINT OF SALE
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PS	PHOTOSENSOR
PVC	POLYVINYL CHLORIDE
PWR	POWER

Q

QTY	QUANTITY

R

R	EXISTING TO BE REMOVED
RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RC	RECONNECT EXISTING DEVICE TO CIRCUIT INDICATED
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
REC	RECEPTACLE
REFR	REFRIGERATOR
REINF	REINFORCING
REL	EXISTING TO BE RELOCATED
REL/EX	NEW LOCATION OF RELOCATED EQUIPMENT
REQD	REQUIRED
REV	REVISION, REVISE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND REPLACE
RTU	ROOFTOP UNIT

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SCHED	SCHEDULE
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SP	SUMP PUMP
SPEC	SPECIFICATION
SPF	STAIR PRESSURIZATION FAN
SPKR	SPEAKER
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SQ.	SQUARE
SRF	SMOKE REMOVAL FAN
SS	START-STOP PUSH BUTTON
SSSC	SOLID STATE SPEED CONTROL
ST	SHUNT TRIP
STB	STEAM BOILER
STD	STANDARD
STL	STEEL
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD

T

TC	TEMPERATURE CONTROL
TEL	TELEPHONE
TF	TRANSFER FAN
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TP	CHILD TAMPER PROOF DEVICE
TSTAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TU	TERMINAL UNIT
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL

U

UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SYSTEM

V

V	VOLT
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VC	VOLUME CONTROL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VM	VOLT METER

W

W	WATT, WIRE, WIDTH
WG	WIREGUARD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WS	WATER SOFTENER
WT	WATERTIGHT, WEIGHT
WWF	WELDED WIRE FABRIC
W/FT²	WATTS PER SQUARE FOOT

X

XFMR	TRANSFORMER

Z

Z	ZONE

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- (5) — SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/#5" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD — VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO — EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
  - "GFCI" DENOTES GROUND FAULT INTERRUPTER,
  - "WP" DENOTES WEATHERPROOF,
  - "IG" DENOTES ISOLATED GROUND,
  - "TP" DENOTES SAFETY TYPE, (TAMPER PROOF)
  - "DR" DENOTES DROPPED RECEPTACLE,
  - "USB" DENOTES RECEPTACLE WITH UNIVERSAL SERIAL BUS,
  - "AC" DENOTES ABOVE COUNTER MOUNTING, SEE
  - "UC" DENOTES UNDER COUNTER MOUNTING, SEE
  - "H" DENOTES HORIZONTALLY ORIENTED RECEPTACLE, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT.
- R — DUPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- DUPLEX WALL RECEPTACLE ON A CIRCUIT DEDICATED TO DATA PROCESSING, GRAY COLOR. PROVIDE ISOLATED GROUND TYPE RECEPTACLES WHERE NOTED.
- SPLIT WIRED RECEPTACLE. TOP RECEPTACLE SHALL BE SWITCHED ACCORDING TO PLANS, AND BOTTOM SHALL REMAIN UNSWITCHED.
- SP — CONTROLLED DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. "SP" DENOTES SPLIT WIRED
- FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- R — FOURPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- CONTROLLED FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- TWO-GANG FLOOR OUTLET
- THREE-GANG FLOOR OUTLET
- MULTI-OUTLET SURFACE RACEWAY. SEE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- JUNCTION BOX
  - "MD" DENOTES MOTOR DAMPER,
  - "CR" DENOTES CORD REEL,
  - "D" DENOTES DROP CORD RECEPTACLE,
- DUPLEX RECEPTACLE WITH HOMERUN
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- TWO-GANG CEILING OUTLET
- D, R, P — FLUSH ELECTRICAL FLOOR OUTLET, "P" DENOTES POKE-THRU. "D" INDICATES DUPLEX RECEPTACLE, "R" INDICATES RED RECEPTACLE ON EMERGENCY POWER. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- PP — POWER POLE
- DIRECT CONNECTION TO EQUIPMENT
- P — PULL BOX (OVER 4" SQUARE)
- C (2) — CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

- 2' X 4' LIGHTING FIXTURE.
- 2' X 2' LIGHTING FIXTURE.
- 1' X 4' LIGHTING FIXTURE.
- 1' X 2' LIGHTING FIXTURE.
- 1' X 1' LIGHTING FIXTURE.
- STRIP LIGHTING FIXTURES.
- STAGGERED STRIP LIGHTING FIXTURE.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SECURITY WALL PACK
- SITE LIGHTING FIXTURE.
- POST-TOP FIXTURE/ACORN FIXTURE BRACKET ARM INDICATES WALL MOUNT WITH ARM
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
- EM CIRCUIT — LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, CIRCUIT NUMBER ADJACENT TO FIXTURE INDICATES EMERGENCY CIRCUIT CONNECTED TO FIXTURE. PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.
- NL — EMERGENCY "NIGHT LIGHT" LIGHT FIXTURE. LIGHT FIXTURE IS UNSWITCHED AND INTENDED FOR 24 HOUR OPERATION. FEED VIA UNSWITCHED HOT.
- DAYLIGHT ZONE/PRIMARY DAYLIGHT ZONE
- SECONDARY DAYLIGHT ZONE

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT UNDERSLAB OR UNDERGROUND
- EM — EMERGENCY CONDUIT
- EXPOSED CONDUIT
- DB — UNDERGROUND CONDUIT, "DB" DENOTES DUCTBANK ENCASED IN CONCRETE
- OHE — OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT:PHASE/NEUTRAL/SWITCH LEG/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES 2# 12, PLUS GROUND, UNLESS NOTED OTHERWISE.
- LLA-2,4 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 — PARTIAL CIRCUIT HOMERUN TO PANEL.
- T — COMMUNICATIONS CONDUIT OR CABLE:
  - "CC" DENOTES MASTER CLOCK,
  - "CA" DENOTES MASTER CLOCK,
  - "CR" DENOTES CASH REGISTER
  - "D" DENOTES DATA,
  - "FA" DENOTES FIRE ALARM,
  - "I" DENOTES INTERCOM,
  - "OHE" DENOTES OVERHEAD ELECTRICAL LINE.
  - "PA" DENOTES PAGING,
  - "S" DENOTES SECURITY,
  - "T" DENOTES TELEPHONE,
  - "V" DENOTES VIDEO,
- TELECOMMUNICATIONS CABLE TRAY TO BE CONCEALED ABOVE ACCESSABLE CEILING.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB — SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE
- TERMINAL CABINET (FLUSH/SURFACE MOUNT), TYPE AS NOTED, 24" X 48" X 3-1/2" UNLESS NOTED OTHERWISE.
- BAT — BATTERY/INVERTER UNIT
- LV — LOW VOLTAGE TRANSFORMER.

COMMUNICATIONS

ALL OUTLET BOXES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

THE FOLLOWING NOTATIONS REFER TO ALL COMMUNICATIONS OUTLETS:
"FAX" DENOTES OUTLET DEDICATED FOR A FAX,
"W" DENOTES WALL PHONE SHALL BE MOUNTED AT 42" A.F.F.
"PAY" DENOTES PAY PHONE SHALL BE MOUNTED 42" A.F.F.

- HS — SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.
- INDICATES THE LOCATION OF A NEW TECHNOLOGY WALL OUTLET, PROVIDE DUAL GANG BACK BOX. REFERENCE TECHNOLOGY SHEET FOR CONTENT.
- M W — MICROPHONE FLOOR OUTLET, "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- S VC — CEILING MOUNTED SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.
- S L — WALL MOUNTED SPEAKER. "L" INDICATED LOCAL SOUND REINFORCEMENT
- CB — SCHOOL INTERCOMMUNICATION SYSTEM CALL-IN. PUSH BUTTON
- BELL, BUZZER OR CHIME AT 80+ A.F.F.
- VC — VOLUME CONTROL - WALL MOUNTED
- AJ W — AUXILIARY INPUT JACK. "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- AVO — "HIGH" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.
- AV — "LOW" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.
- C (2) LV — LOW VOLTAGE CLOCK SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P — SWITCH, RATING AS SHOWN
- 400A — FUSE, RATING AS SHOWN
- CL — CIRCUIT BREAKER, RATING AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE. "CL" DENOTES CURRENT LIMITING
- DRAWOUT CIRCUIT BREAKER, RATINGS AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE
- ST — SHUNT TRIP
- GFI — GROUND FAULT RELAY
- K — KIRK-KEY INTERLOCK
- M — DIGITAL METER
- A 0-2000 — AMMETER, RANGE AS SHOWN
- AS — AMMETER SWITCH
- V 0-600 — VOLTMETER, RANGE AS SHOWN
- VS — VOLTMETER SWITCH
- WH D-15 — WATT-HOUR METER, "D" DENOTES DEMAND REGISTER "15" DENOTES MINUTES OF DEMAND INTERVAL
- 1200/5 — CURRENT TRANSFORMER, RATED AS SHOWN
- 12.47KV/120V — POTENTIAL TRANSFORMER, RATING AS SHOWN
- GROUND CONNECTION
- LIGHTING ARRESTOR
- G — GENERATOR SET
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- M — ELECTRICAL METER
- SPD — SURGE PROTECTION DEVICE

MISCELLANEOUS

- F — SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 — DRAWING NOTE REFERENCE
- 1 — STARTER/DISCONNECT SCHEDULE REFERENCE
- 1 — FEEDER SCHEDULE REFERENCE
- LC — LIGHTING CONTACTOR
- TS — TIME SWITCH
- PC — PHOTOCELL
- PUSH BUTTON/DOOR BELL
- TC — TIMECLOCK
- R — RELAY
- SOS — AREA OF RESCUE ASSISTANCE
- B — BELL

FIRE ALARM

- W — WATER FLOW SWITCH
- SP — SUPERVISORY SWITCH
- S — SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S — SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H — HEAT DETECTOR
- S BT — BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR — BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S — FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S — FIRE ALARM SPEAKER STROBE / WALL MOUNTED
- S — FIRE ALARM SPEAKER / CEILING MOUNT.
- S — FIRE ALARM SPEAKER / WALL MOUNTED
- DH — MAGNETIC DOOR HOLDER
- R — AUXILIARY CONTROL RELAY
- FH — FIRE FIGHTER HANDSET
- F — FIRE ALARM PULL STATION +42" AFF
- F — FIREMAN'S TELEPHONE JACK +42" AFF
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- H — VISUAL FIRE ALARM (STROBE) WALL MOUNT +80" AFF- 15/75cd U.N.O.
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP — FIRE ALARM CONTROL PANEL
- ANN — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS — REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD — FIRE SMOKE DAMPER
- REMOTE LED INDICATOR LIGHT

SECURITY

- KP — KEYPAD
- GB — GLASS BREAK SENSOR
- HB — HOLD UP BUTTON
- DS — INTERCOM DOOR STATION
- MS — INTERCOM MASTER STATION
- U — LONG RANGE MOTION DETECTOR
- U — WALL MOUNTED MOTION DETECTOR
- U — CEILING MOUNTED MOTION DETECTOR
- IDP — INTRUSION DETECTION PANEL
- DC — DOOR CONTACT
- PB — ADA AUTO DOOR OPEN BUTTON
- DR — DOOR RELEASE BUTTON
- CR — CARD READER
- CR — WALL MOUNTED CARD READER

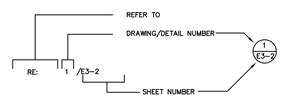
REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES

ALL WALL SWITCHES SHALL BE MOUNTED AT 42" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- $ — SWITCH, SPST, 20A, 120/277V.
- $2 — SWITCH, 20A, 120/277V:
  - "2" DENOTES DPST,
  - "3" DENOTES THREE-WAY,
  - "4" DENOTES FOUR-WAY,
  - "K" DENOTES KEY SWITCH,
  - "P" DENOTES PILOT LIGHT,
  - "T" DENOTES SPRING WOUND TIMER.
  - "R" DENOTES RED
  - "F" DENOTES FAN SPEED CONTROLLER
  - "OC" DENOTES OCCUPANCY SENSOR SWITCH
  - "LVK" DENOTES LOW VOLTAGE KEYED SWITCH
  - "LV" DENOTES LOW VOLTAGE SWITCH
  - "L" DENOTES LOCKING SWITCH
- $MC — SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
- $D — DIMMER CONTROL SWITCH, 600 WATT UNLESS OTHERWISE NOTED.
- $3W — THREE-WAY KEY SWITCH, 20A, 120/277V.
- $SC — WALL MOUNTED SWITCH TO CONTROL MOTORIZED PROJECTION SCREENS.
- $M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- OC — CEILING MOUNTED OCCUPANCY SENSOR
- MP — MASTER OCCUPANCY SENSOR POWER PACK
- DS — DAYLIGHT/PHOTO SENSOR
- PS — PARTITION SENSOR

DRAWING/DETAIL REFERENCE KEY



GENERAL NOTES

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

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COLLEGE³ READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

ELECTRICAL SYMBOL LEGEND

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DM	MG	JCH	TL	-

E0.01N

May 08, 2019 - 7:22pm User: jchavez
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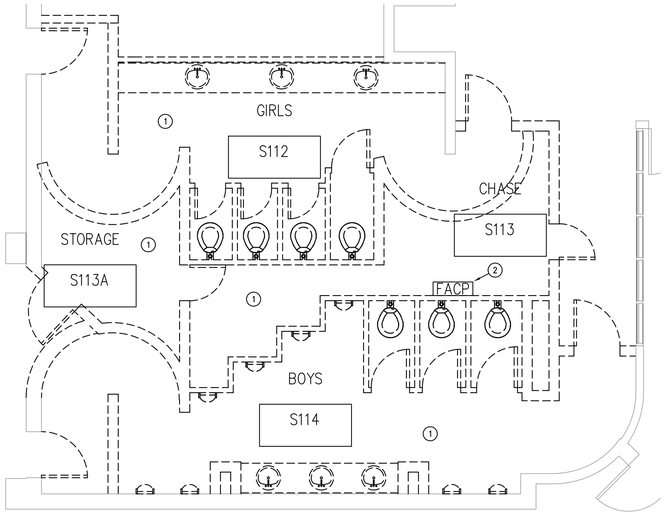
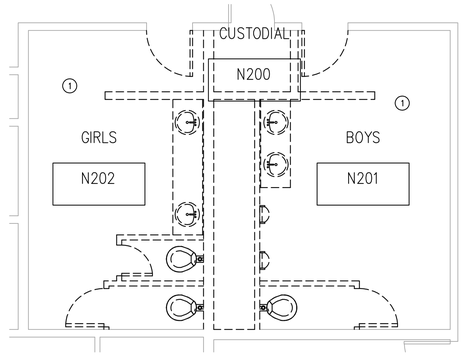


3 ED2.11N ENLARGED ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"



4 ED2.11N ENLARGED ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"

GENERAL NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE FIELD VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE ALL LABOR AND MATERIAL CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, CONDUIT AND WIRING WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED, SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED.

B. ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWSE.

C. CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED BACK TO LAST ACTIVE JUNCTION AND SALVAGED FOR REINSTALLATION.

D. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

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F. CONTRACTOR SHALL REMOVE AND SALVAGE ALL EXISTING FIRE ALARM DEVICES. PROVIDE ADDITIONAL DEVICES AS REQUIRED PER NEW FIRE ALARM DESIGN. EXISTING FIRE ALARM CONTROL PANEL SHALL REMAIN.

G. ANY EXISTING CONDUIT NOT BEING REUSED ROUTED BELOW GRADE SHALL BE ABANDONED.

H. ALL ELECTRICAL LIGHTING AND EQUIPMENT SHALL BE LOCATED PER NEW ELECTRICAL PLANS. EXTEND ALL EXISTING FEEDERS AS REQUIRED FOR RELOCATION.

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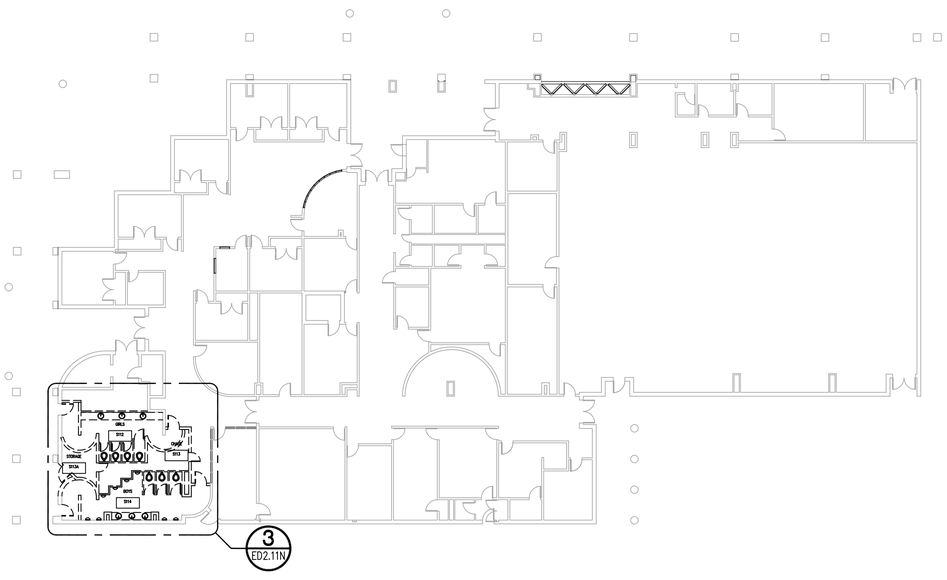
2. EXISTING FIRE ALARM PANEL SHALL REMAIN IN SERVICE DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT STRUCTURE FOR FACP AND ALL ASSOCIATED BATTERY CABINETS, EXTENDER PANELS, WIREWAYS, CONDUIT AND DEVICES. ALL EXISTING FIRE ALARM COMPONENTS SHALL BE REINSTALLED AND PROTECTED FROM DAMAGE.



1 ED2.11N ELECTRICAL DEMOLITION PLAN - BUILDING S
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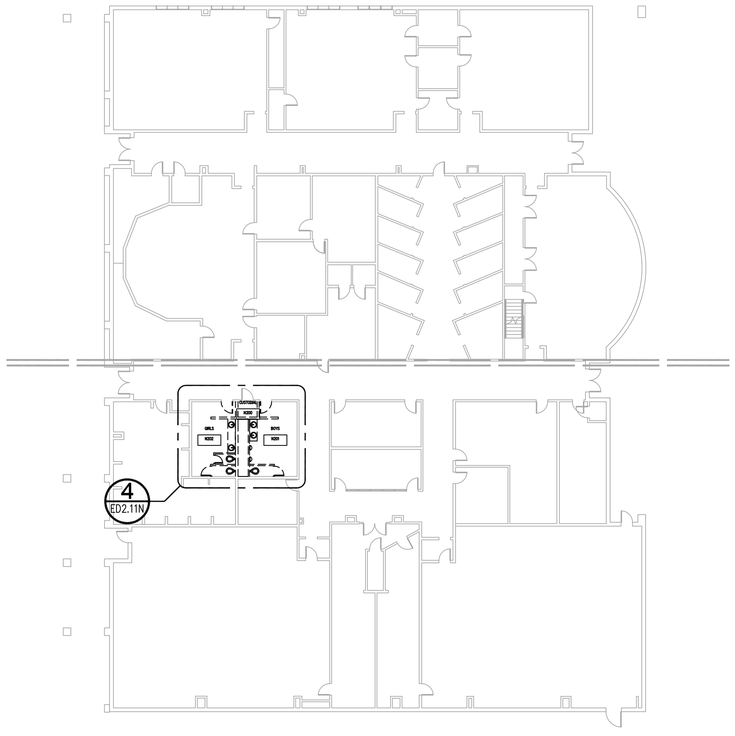

2 ED2.11N ELECTRICAL DEMOLITION PLAN - BUILDING N
1/16"=1'-0"

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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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STRUCTURAL:
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MEP:
DBR ENGINEERING

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KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING S & BUILDING N ELECTRICAL DEMOLITION PLAN

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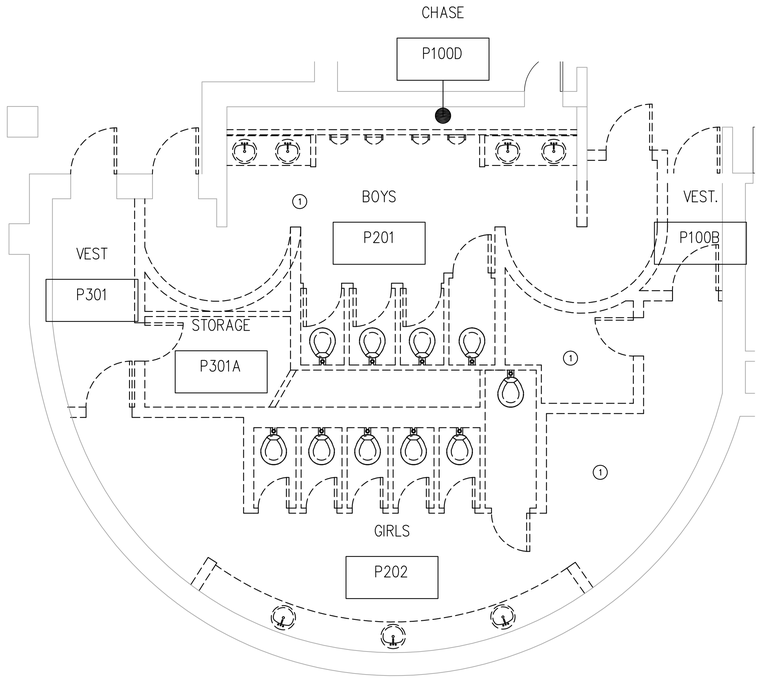
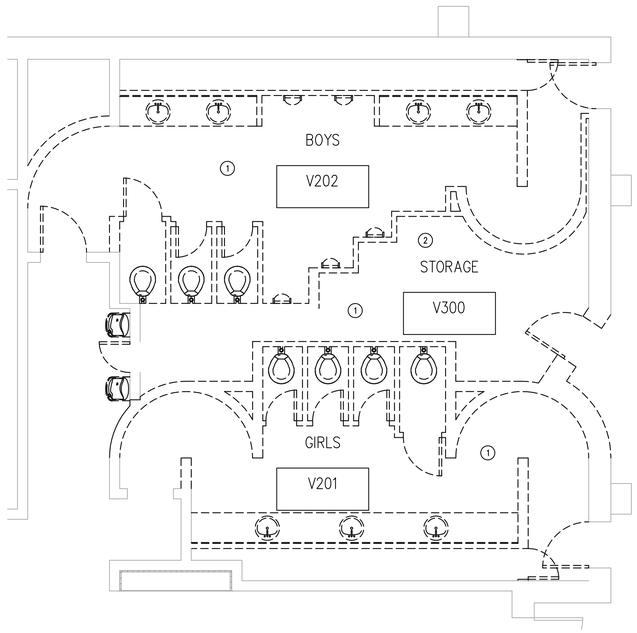


3 ED2.12N ENLARGED ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"



4 ED2.12N ENLARGED ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"

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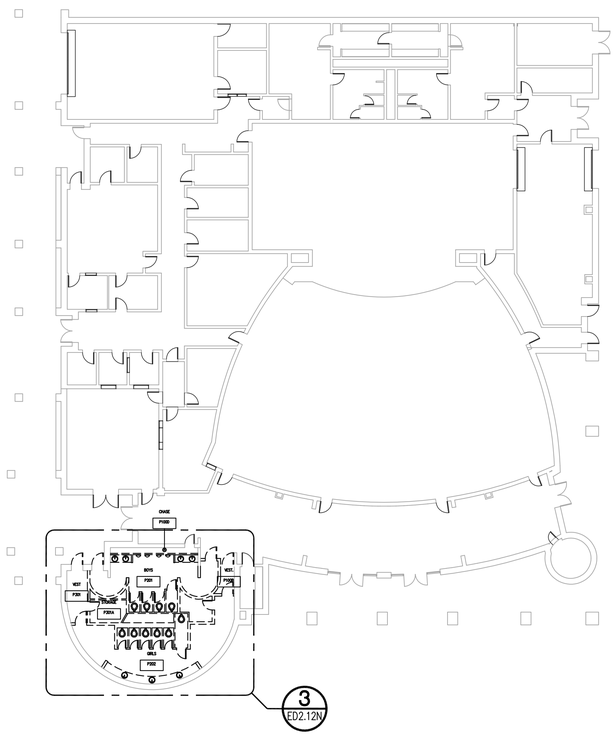
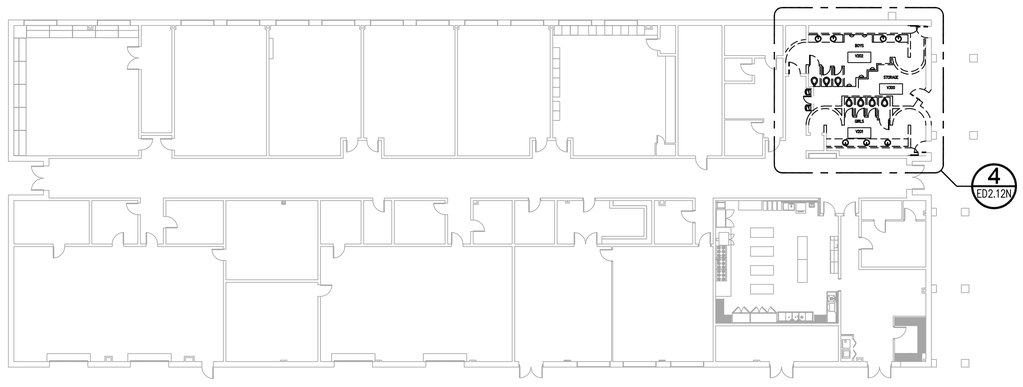
2. VERIFY BOILER EQUIPMENT IGNITER CIRCUIT AND DOCUMENT FOR RELOCATION. REFER TO NEW WORK FOR NEW BOILER LOCATION.



1 ED2.12N ELECTRICAL DEMOLITION PLAN - BUILDING P
1/16"=1'-0"



2 ED2.12N ELECTRICAL DEMOLITION PLAN - BUILDING V
1/16"=1'-0"

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MEP:
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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
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ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING P & BUILDING V ELECTRICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
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956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000
DM | MG | JCH | TL | –	

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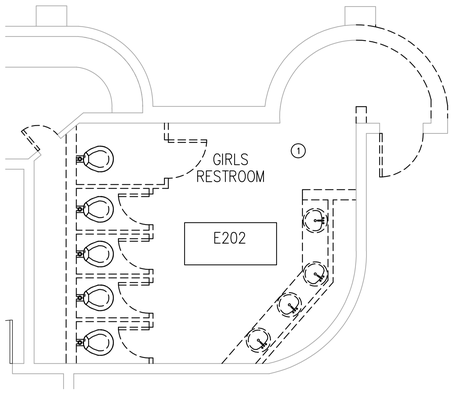

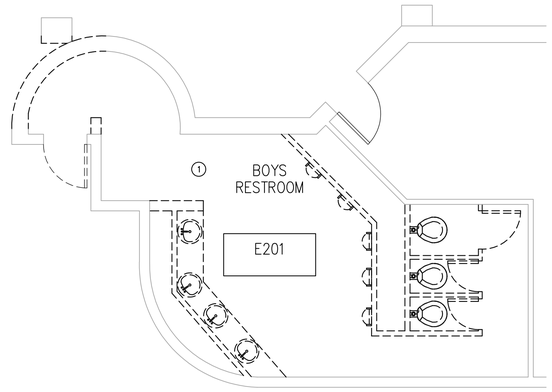

2 ED2.13N ENLARGED ELECTRICAL DEMOLITION PLAN
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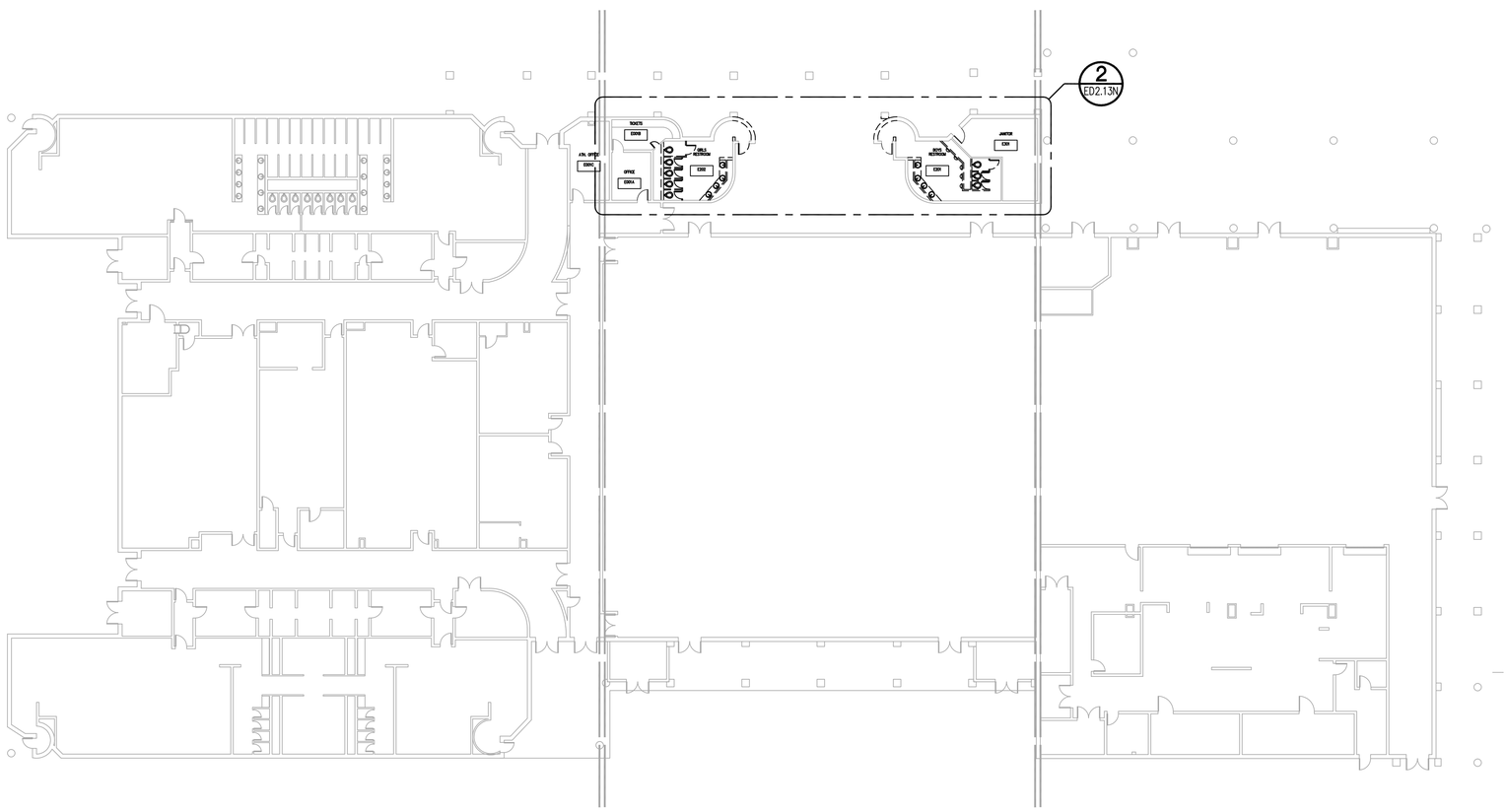

1 ED2.13N ELECTRICAL DEMOLITION PLAN - BUILDING E
1/16"=1'-0"

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STRUCTURAL:
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MEP:
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KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
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Checked:	JM
Scale:	1/4" = 1'-0"
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Revisions:

Sheet Title:

BUILDING E ELECTRICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

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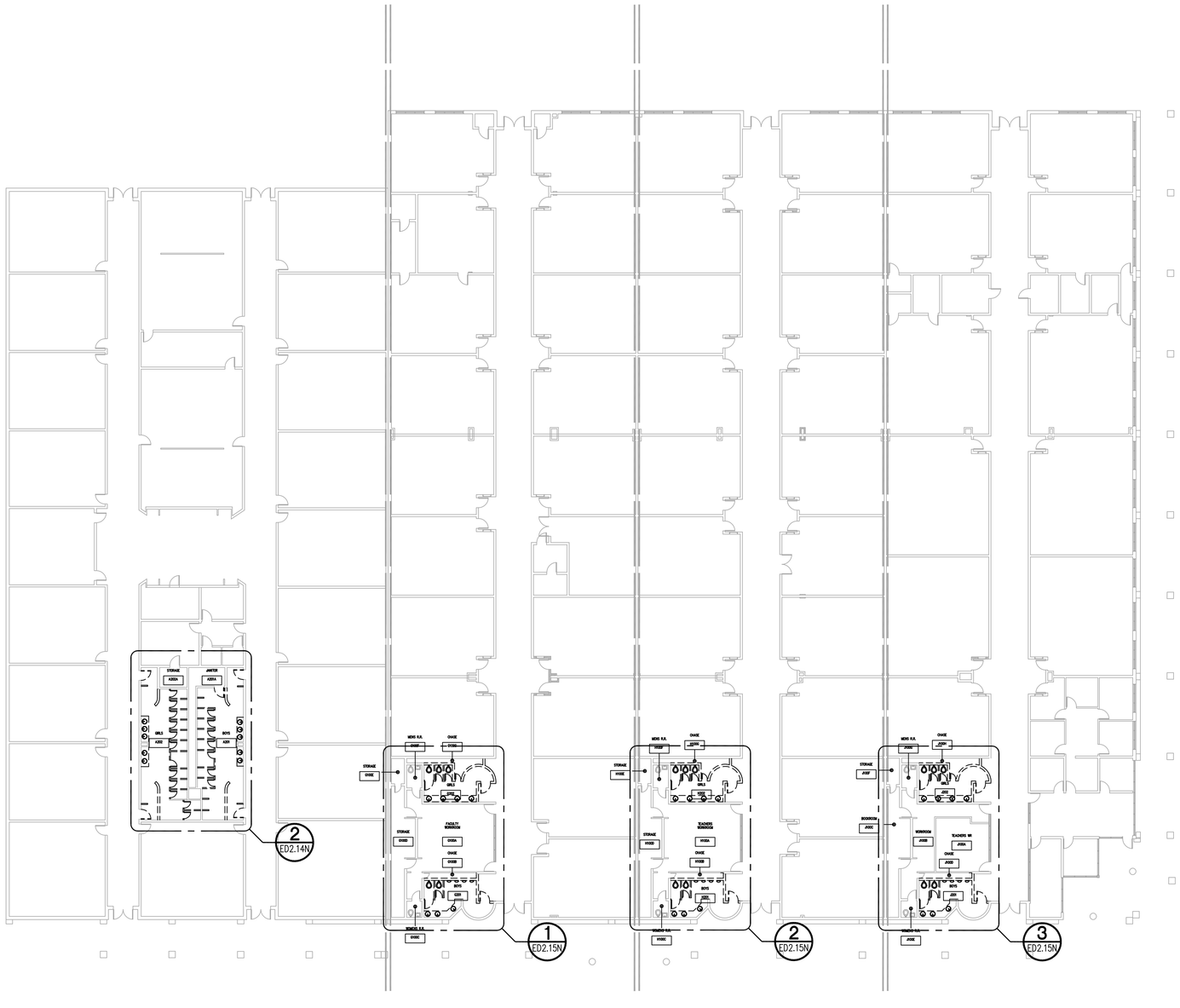
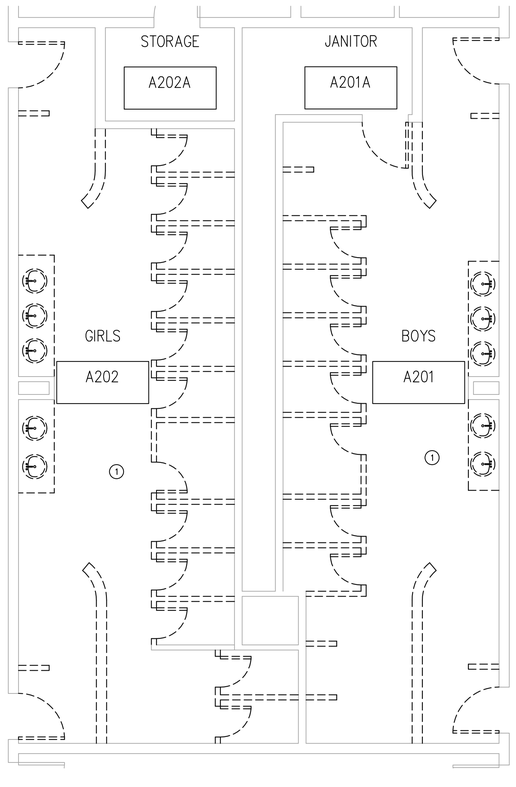


1 ED2.14N ELECTRICAL DEMOLITION PLAN - BUILDING A-G-H-J
1/16"=1'-0"



2 ED2.14N ENLARGED ELECTRICAL DEMOLITION PLAN
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Revisions:

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BUILDING A-G-H-J ELECTRICAL DEMOLITION PLAN

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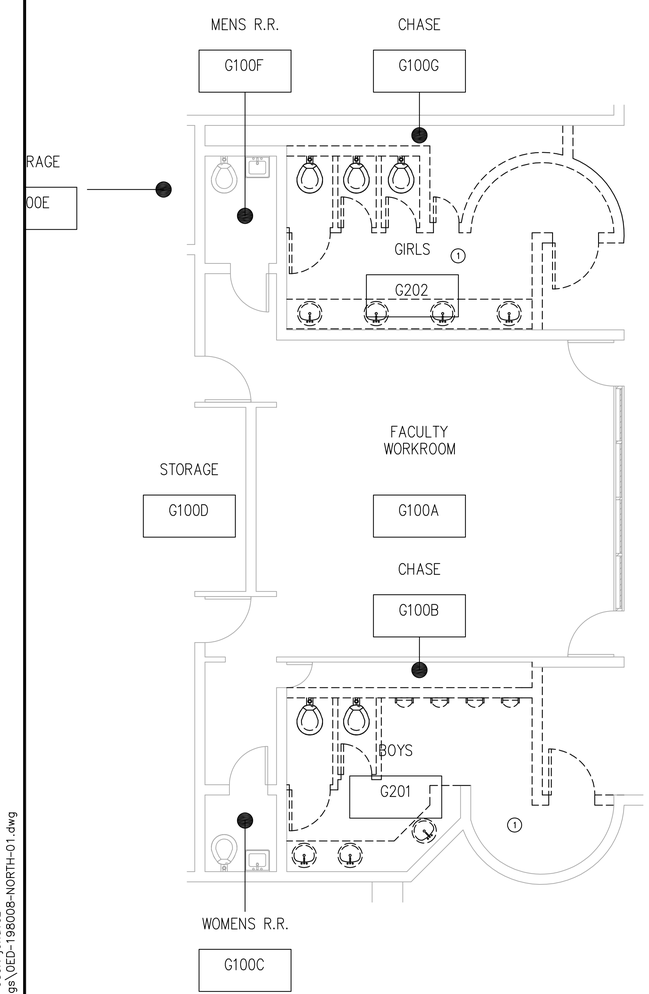

1 ED2.15N ENLARGED ELECTRICAL DEMOLITION PLAN
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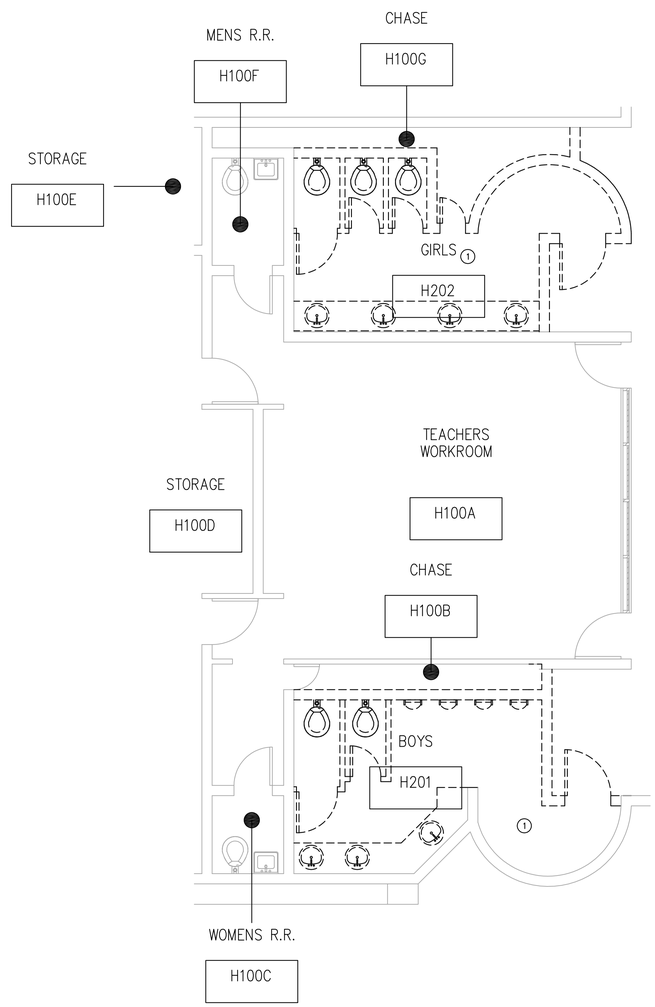
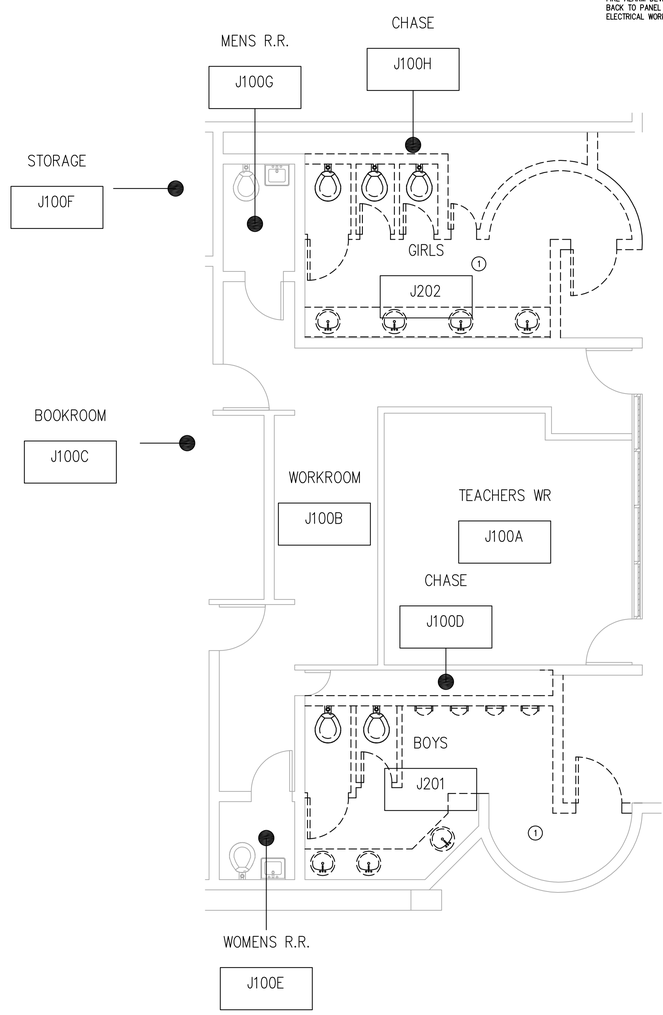


2 ED2.15N ENLARGED ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"



3 ED2.15N ENLARGED ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING A-G-H-J ELECTRICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

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GENERAL NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE FIELD VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE ALL LABOR AND MATERIAL CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, CONDUIT AND WIRING WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED, SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED.

B. ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

C. CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED BACK TO LAST ACTIVE JUNCTION AND SALVAGED FOR REINSTALLATION.

D. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

E. CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, SWITCHES, DATA/TELEPHONE DROPS, FIRE ALARM DEVICES, P/A DEVICES, CONDUIT, AND WIRING. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX. REFER TO ARCHITECTURAL DEMO PLAN. ALL DEVICES SHALL BE STORED AND PROTECTED FROM DAMAGE FOR REINSTALLATION PER NEW ELECTRICAL WORK.

F. CONTRACTOR SHALL REMOVE AND SALVAGE ALL EXISTING FIRE ALARM DEVICES. PROVIDE ADDITIONAL DEVICES AS REQUIRED PER NEW FIRE ALARM DESIGN. EXISTING FIRE ALARM CONTROL PANEL SHALL REMAIN.

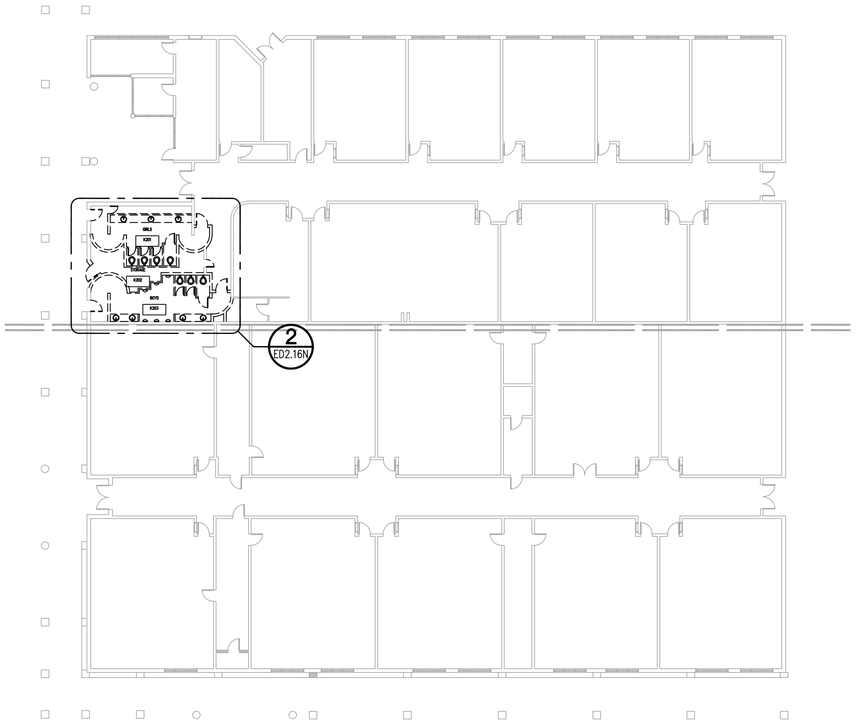
G. ANY EXISTING CONDUIT NOT BEING REUSED ROUTED BELOW GRADE SHALL BE ABANDONED.

H. ALL ELECTRICAL LIGHTING AND EQUIPMENT SHALL BE LOCATED PER NEW ELECTRICAL PLANS. EXTEND ALL EXISTING FEEDERS AS REQUIRED FOR RELOCATION.

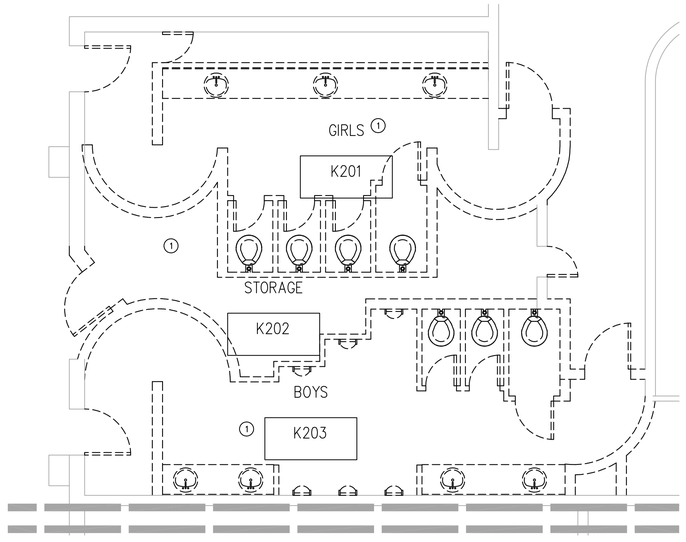
I. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN TO THE OWNER BEFORE STARTING WORK. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT ARE NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.

KEYED NOTES:

1. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING INTERIOR LIGHT FIXTURES THROUGH OUT THE SPACE, CEILING MOUNTED LIGHTING CONTROL DEVICES, CEILING MOUNTED FIRE ALARM DEVICES AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX. REFER TO NEW ELECTRICAL WORK FOR NEW LIGHT FIXTURE LOCATIONS.



1 ED2.16N ELECTRICAL DEMOLITION PLAN - BUILDING K
1/16"=1'-0"



2 ED2.16N ENLARGED ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"

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Consultants:

CIVIL:
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STRUCTURAL:
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MEP:
DBR ENGINEERING

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KEYPLAN

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Drawn:	AL
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ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING K ELECTRICAL DEMOLITION PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000

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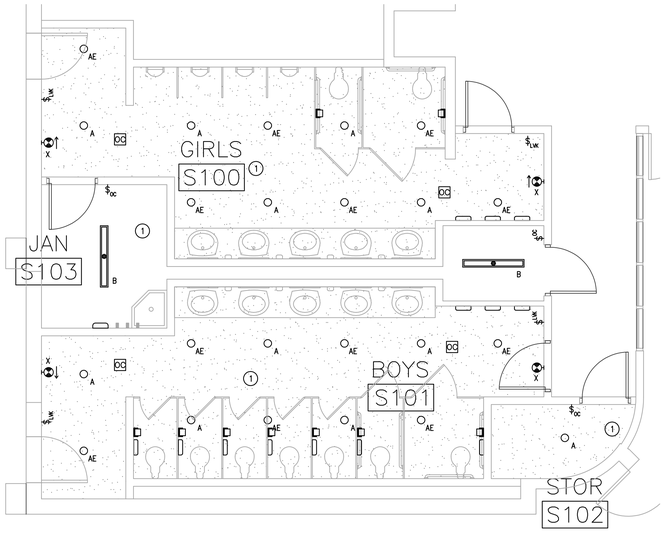
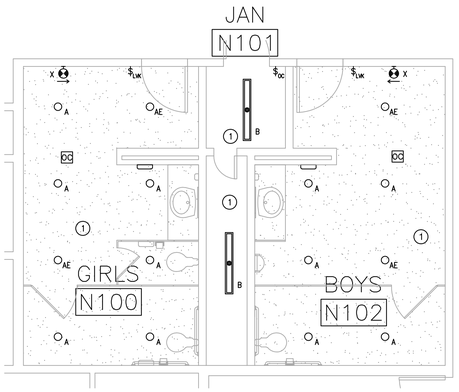


3 EL2.11N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"



4 EL2.11N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

GENERAL NOTES:

A. ALL LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS WITH INSTALLED CEILING GRID, MECHANICAL DUCT WORK, STRUCTURAL MEMBERS AND ALL OTHER TRADES.

B. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED, PENDANT MOUNTED AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT AND/OR ENGINEER. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AT NO ADDITIONAL COST TO OWNER.

C. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH UNIVERSAL VOLTAGE DRIVERS. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE OF EXISTING AND NEW PANELS AND CONNECT ALL LIGHT FIXTURES ACCORDINGLY.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER AND PROVIDE ADEQUATE NUMBER OF POWER PACKS FOR THE INTENDED NUMBER OF LIGHT FIXTURES IN EACH ROOM.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER AND PROVIDE ADEQUATE NUMBER OF OCCUPANCY SENSORS TO PROVIDE FULL COVERAGE FOR EACH ROOM.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WALL MOUNTED LIGHTING CONTROL DEVICES WITH ARCHITECT AND/OR OWNER IN FIELD BEFORE ROUGH-IN.

G. ALL EXIT LIGHTS SHALL BE CONNECTED TO UNSWITCHED CIRCUIT.

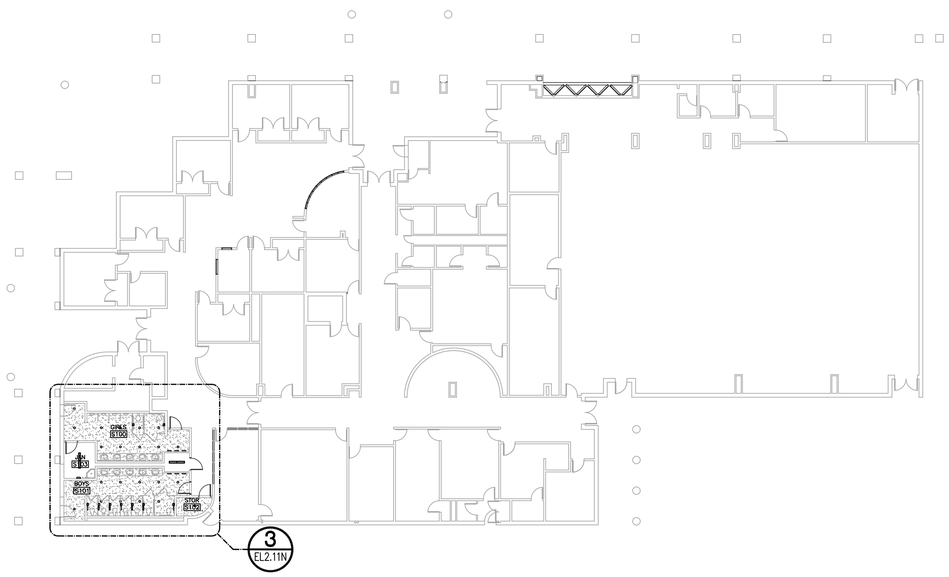
H. ALL LIGHT FIXTURES WITH AN 'E' SUFFIX SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK. FIXTURES SHALL BE WIRED SO THAT FIXTURE REMAINS ON DURING LOSS OF POWER AT PANEL.

I. NEW LIGHTING CONTROL DEVICES SHALL MATCH EXISTING CONTROLS MANUFACTURER. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL DEVICES THAT CAN INTERFACE WITH EXISTING CONTROLS PROTOCOL. COORDINATE MODEL NUMBERS WITH MANUFACTURER PRIOR TO PURCHASE.

J. PROVIDE NEW FIRE ALARM DEVICES COMPATIBLE WITH EXISTING FACP. EXISTING FACP MANUFACTURER IS NOTIFIER, FIELD VERIFY MODEL NUMBER.

KEYED NOTES:

1. INSTALL NEW LIGHT FIXTURES APPROXIMATELY AS SHOWN. CONTRACTOR SHALL CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT WITHIN THE SPACE.



1 EL2.11N ELECTRICAL PLAN - BUILDING S
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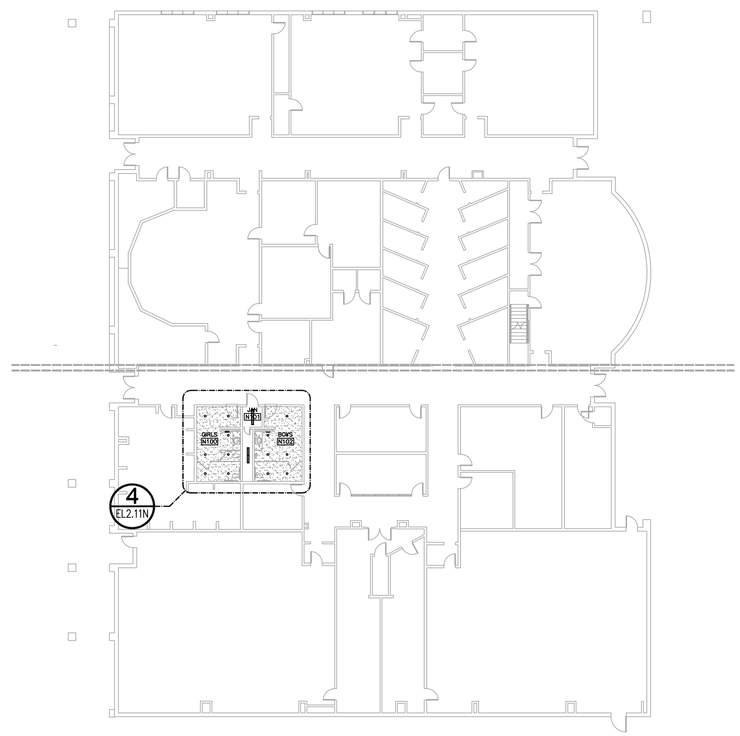

2 EL2.11N ELECTRICAL PLAN - BUILDING N
1/16"=1'-0"

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
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KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING S & BUILDING N ELECTRICAL LIGHTING PLAN

DBR
200 South 10th Street, Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

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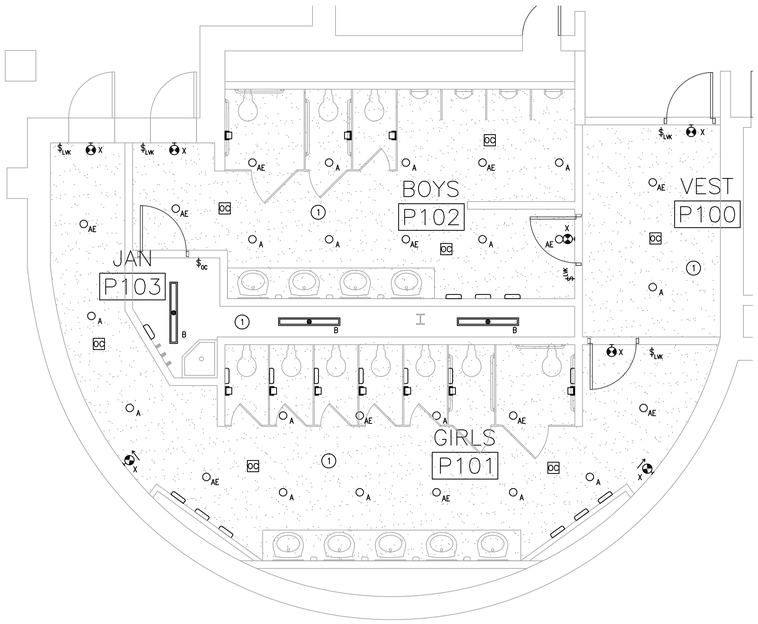

3 EL2.12N ENLARGED ELECTRICAL PLAN
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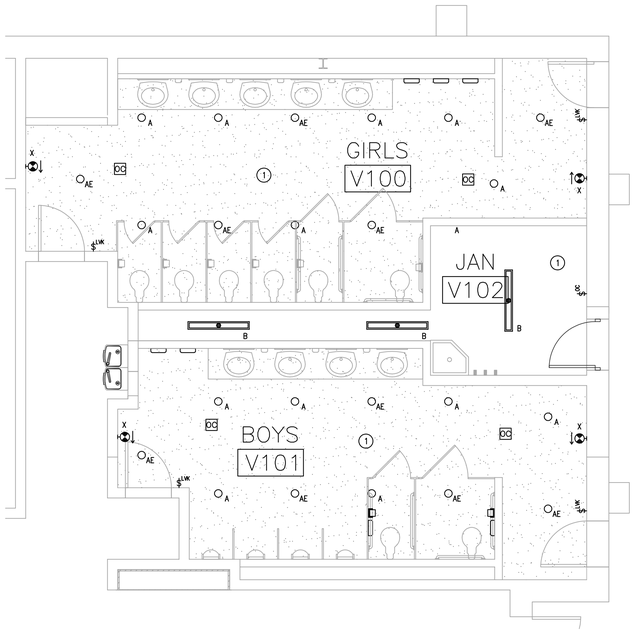


4 EL2.12N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

GENERAL NOTES:

A. ALL LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS WITH INSTALLED CEILING GRID, MECHANICAL DUCT WORK, STRUCTURAL MEMBERS AND ALL OTHER TRADES.

B. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED, PENDANT MOUNTED AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT AND/OR ENGINEER. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AT NO ADDITIONAL COST TO OWNER.

C. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH UNIVERSAL VOLTAGE DRIVERS. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE OF EXISTING AND NEW PANELS AND CONNECT ALL LIGHT FIXTURES ACCORDINGLY.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER AND PROVIDE ADEQUATE NUMBER OF POWER PACKS FOR THE INTENDED NUMBER OF LIGHT FIXTURES IN EACH ROOM.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER AND PROVIDE ADEQUATE NUMBER OF OCCUPANCY SENSORS TO PROVIDE FULL COVERAGE FOR EACH ROOM.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WALL MOUNTED LIGHTING CONTROL DEVICES WITH ARCHITECT AND/OR OWNER IN FIELD BEFORE ROUGH-IN.

G. ALL EXIT LIGHTS SHALL BE CONNECTED TO UNSWITCHED CIRCUIT.

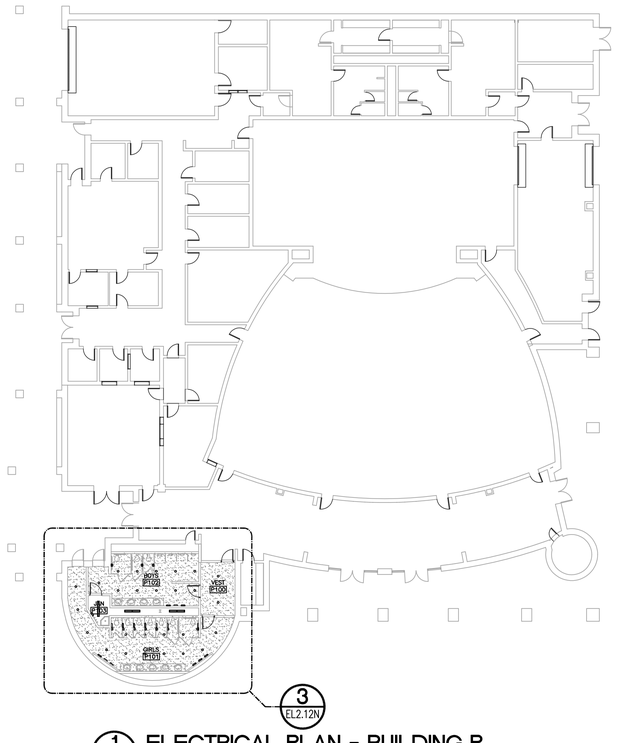
H. ALL LIGHT FIXTURES WITH AN 'E' SUFFIX SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK. FIXTURES SHALL BE WIRED SO THAT FIXTURE REMAINS ON DURING LOSS OF POWER AT PANEL.

I. NEW LIGHTING CONTROL DEVICES SHALL MATCH EXISTING CONTROLS MANUFACTURER. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL DEVICES THAT CAN INTERFACE WITH EXISTING CONTROLS PROTOCOL. COORDINATE MODEL NUMBERS WITH MANUFACTURER PRIOR TO PURCHASE.

J. PROVIDE NEW FIRE ALARM DEVICES COMPATIBLE WITH EXISTING FACP. EXISTING FACP MANUFACTURER IS NOTIFIER, FIELD VERIFY MODEL NUMBER.

KEYED NOTES:

1. INSTALL NEW LIGHT FIXTURES APPROXIMATELY AS SHOWN. CONTRACTOR SHALL CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT WITHIN THE SPACE.



1 EL2.12N ELECTRICAL PLAN - BUILDING P
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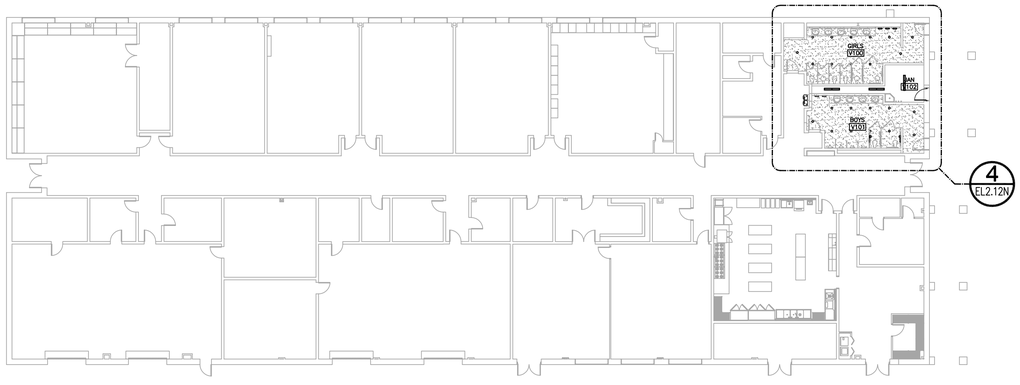

2 EL2.12N ELECTRICAL PLAN - BUILDING V
1/16"=1'-0"

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
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MEP:
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KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
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Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING P & BUILDING V ELECTRICAL LIGHTING PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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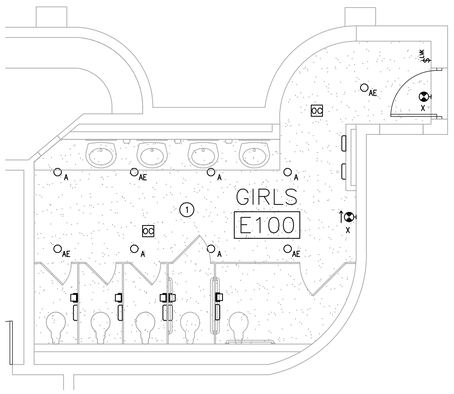

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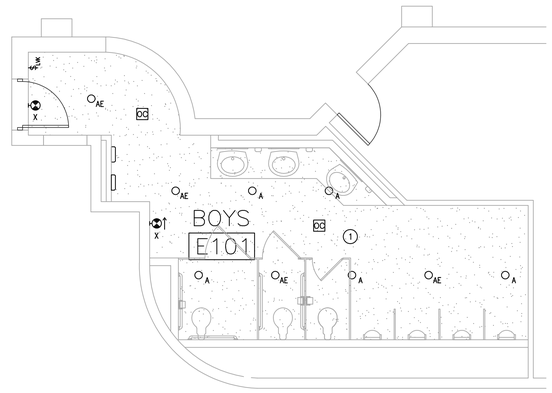
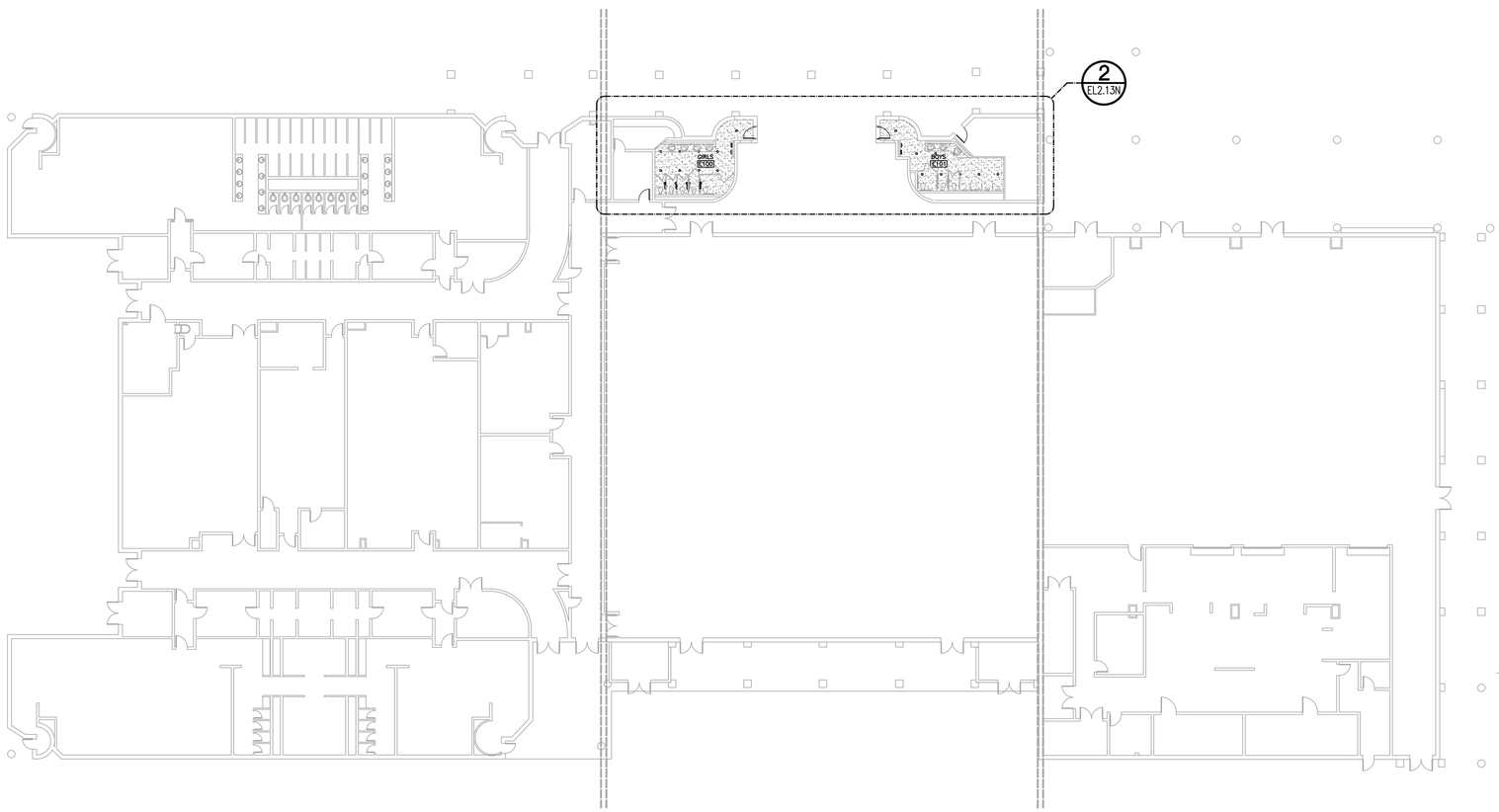
1/4"=1'-0"





1 EL2.13N ELECTRICAL PLAN - BUILDING E
1/16"=1'-0"

GENERAL NOTES:

A. ALL LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS WITH INSTALLED CEILING GRID, MECHANICAL DUCT WORK, STRUCTURAL MEMBERS AND ALL OTHER TRADES.

B. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED, PENDANT MOUNTED AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT AND/OR ENGINEER. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AT NO ADDITIONAL COST TO OWNER.

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KEYED NOTES:

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Consultants:

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
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Revisions:

Sheet Title:

BUILDING E ELECTRICAL LIGHTING PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000

DM	MG	JCH	TL	–

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GENERAL NOTES:

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F. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WALL MOUNTED LIGHTING CONTROL DEVICES WITH ARCHITECT AND/OR OWNER IN FIELD BEFORE ROUGH-IN.

G. ALL EXIT LIGHTS SHALL BE CONNECTED TO UNSWITCHED CIRCUIT.

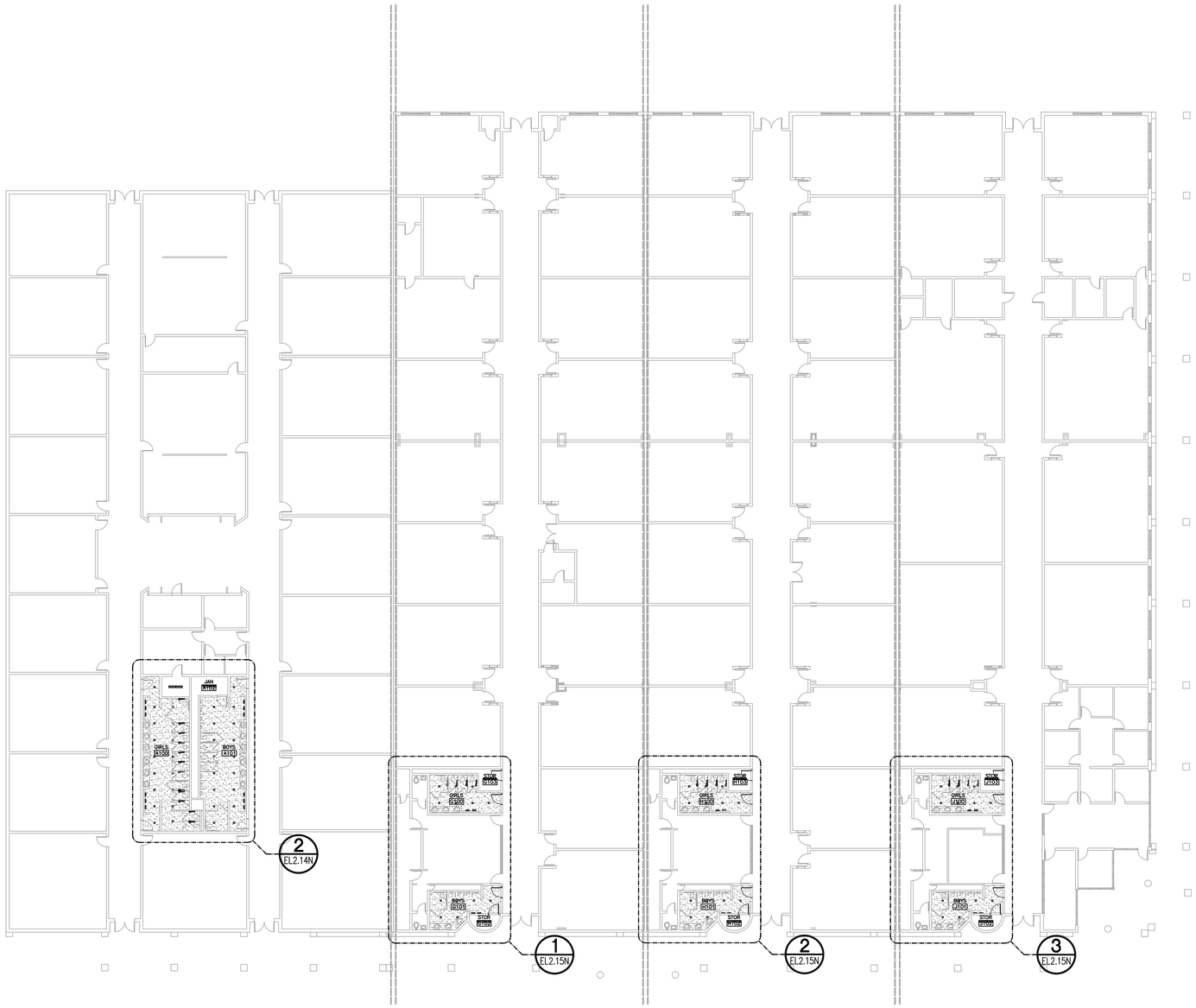
H. ALL LIGHT FIXTURES WITH AN 'E' SUFFIX SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK. FIXTURES SHALL BE WIRED SO THAT FIXTURE REMAINS ON DURING LOSS OF POWER AT PANEL.

I. NEW LIGHTING CONTROL DEVICES SHALL MATCH EXISTING CONTROLS MANUFACTURER. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL DEVICES THAT CAN INTERFACE WITH EXISTING CONTROLS PROTOCOL. COORDINATE MODEL NUMBERS WITH MANUFACTURER PRIOR TO PURCHASE.

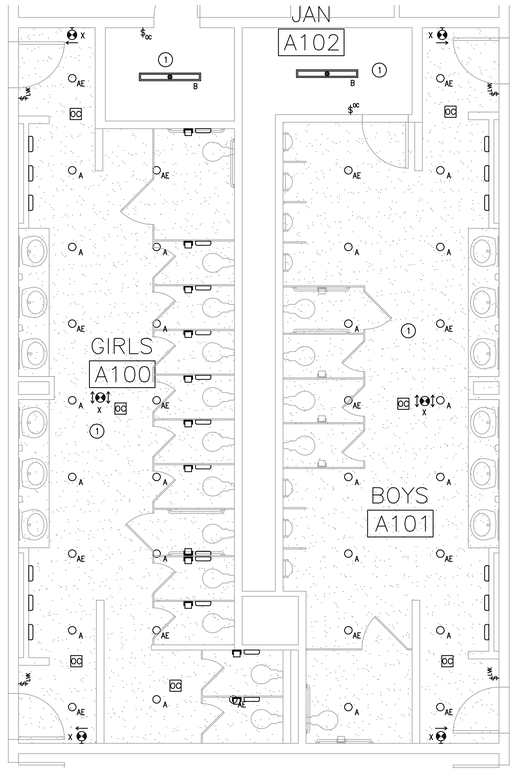
J. PROVIDE NEW FIRE ALARM DEVICES COMPATIBLE WITH EXISTING FACP. EXISTING FACP MANUFACTURER IS NOTIFIER, FIELD VERIFY MODEL NUMBER.

KEYED NOTES:

1. INSTALL NEW LIGHT FIXTURES APPROXIMATELY AS SHOWN. CONTRACTOR SHALL CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT WITHIN THE SPACE.



1 EL2.14N ELECTRICAL PLAN - BUILDING A-G-H-J
1/16"=1'-0"



2 EL2.14N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
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3700 N. 10TH, SUITE 205
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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
76295
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PROFESSIONAL ENGINEER
05-10-2019

COLLEGE 3
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PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING A-G-H-J ELECTRICAL LIGHTING PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

EL2.14N

May 08, 2019 - 7:21pm User: jchavez
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GENERAL NOTES:

A. ALL LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS WITH INSTALLED CEILING GRID, MECHANICAL DUCT WORK, STRUCTURAL MEMBERS AND ALL OTHER TRADES.

B. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED, PENDANT MOUNTED AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT AND/OR ENGINEER. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AT NO ADDITIONAL COST TO OWNER.

C. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH UNIVERSAL VOLTAGE DRIVERS. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE OF EXISTING AND NEW PANELS AND CONNECT ALL LIGHT FIXTURES ACCORDINGLY.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER AND PROVIDE ADEQUATE NUMBER OF POWER PACKS FOR THE INTENDED NUMBER OF LIGHT FIXTURES IN EACH ROOM.

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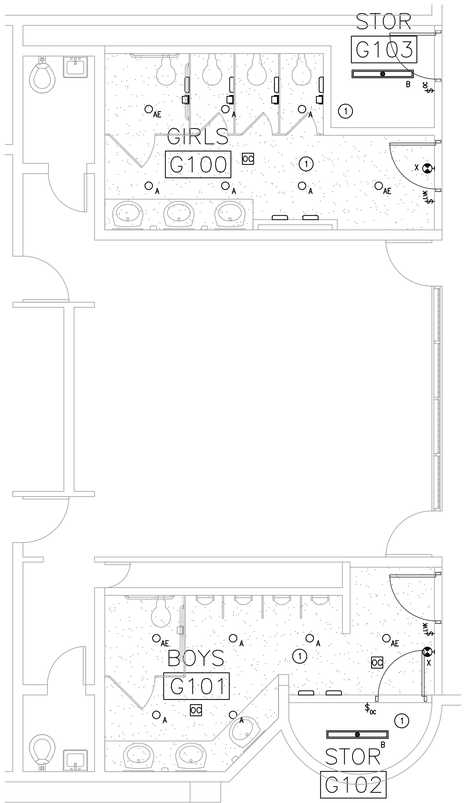
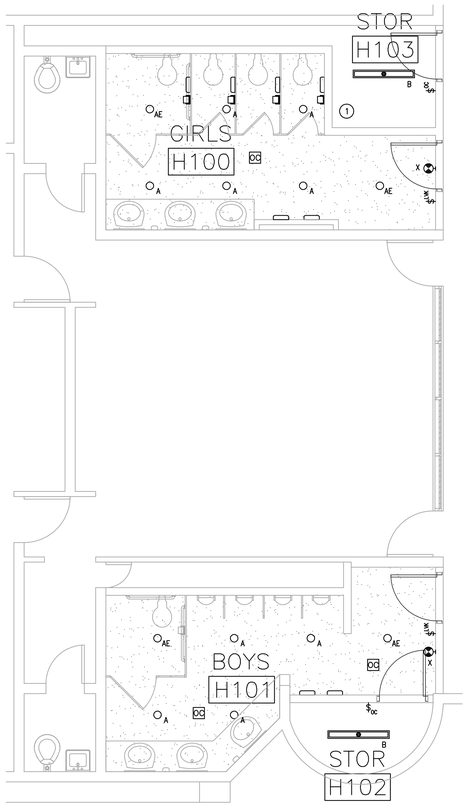
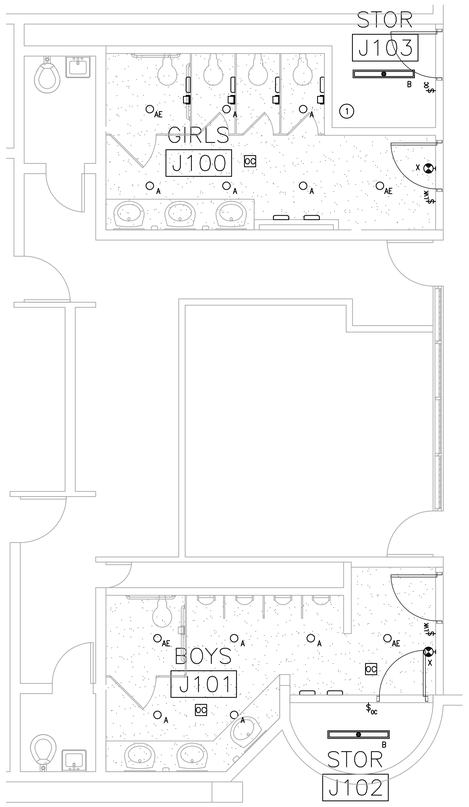


1 EL2.15N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"



2 EL2.15N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"



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MEP:
DBR ENGINEERING

STATE OF TEXAS
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05-10-19

COLLEGE 3
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PSJA ISD

NORTH ECHS & COLLEGE

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING A-G-H-J ELECTRICAL LIGHTING PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

EL2.15N

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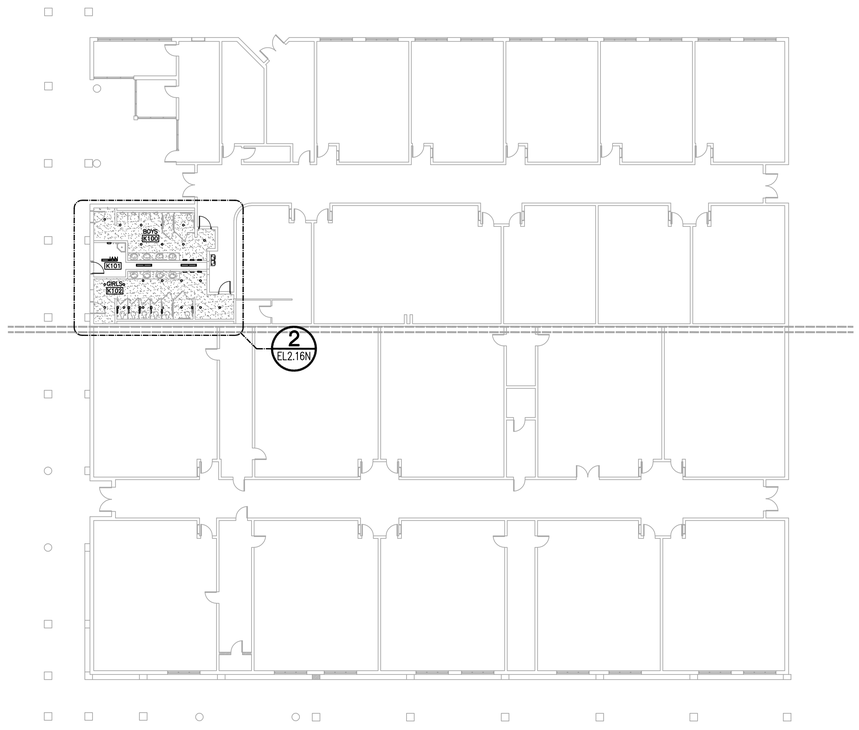
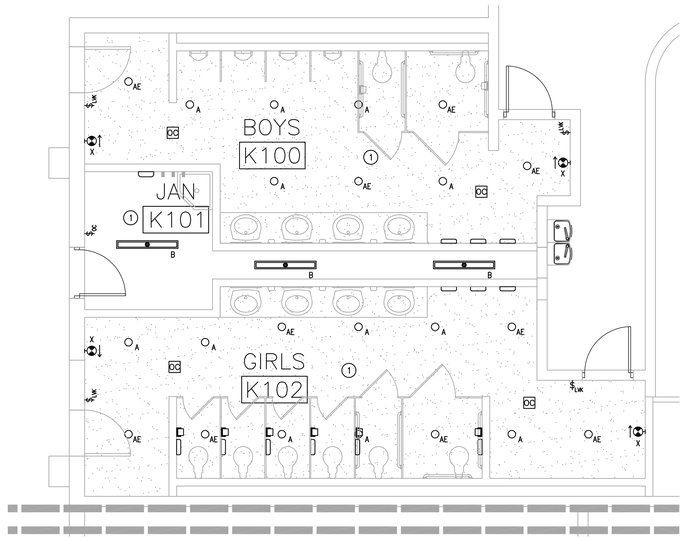


1 EL2.16N ELECTRICAL PLAN - BUILDING K
1/16"=1'-0"



2 EL2.16N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

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3700 N. 10TH, SUITE 205
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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
76295
LICENSED
PROFESSIONAL ENGINEER
05-10-2019

COLLEGE 3
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AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING K ELECTRICAL LIGHTING PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

EL2.16N

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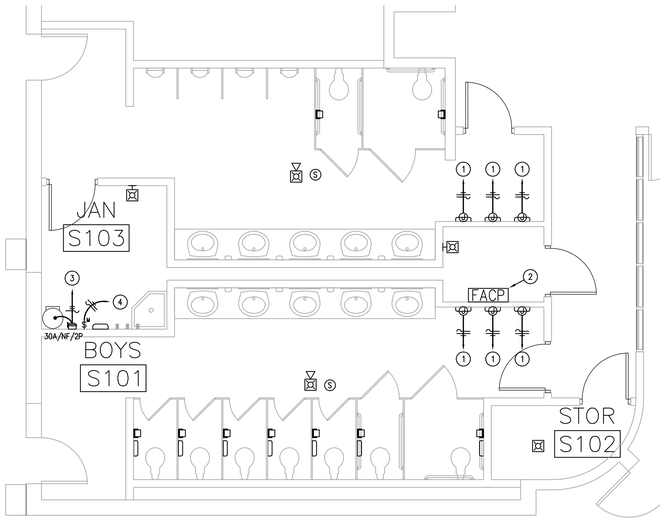
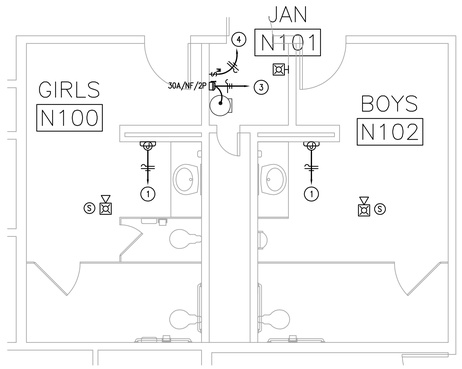


3 EP2.11N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"



4 EP2.11N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT.

B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.

C. ELECTRICAL CONTRACTOR SHALL REFERENCE TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUIT AND BACK BOX REQUIREMENTS. DIVISION 26 SHALL PROVIDE ALL PATHWAYS FOR LOW VOLTAGE SYSTEMS. DIVISION 26 CONTRACTOR SHALL COORDINATE WITH DIVISION 27 AND 28 CONTRACTORS FOR PATHWAY AND ROUGH-IN NEEDS.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.

E. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.

F. ALL RECEPTACLES MOUNTED ABOVE COUNTERS AND WITHIN 6 FEET OF SINKS OR LAVATORIES SHALL BE GFCI TYPE.

G. PROVIDE A DEDICATED HOT, NEUTRAL, AND GROUND FOR ALL COPY MACHINES.

H. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2011 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.

I. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.

J. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

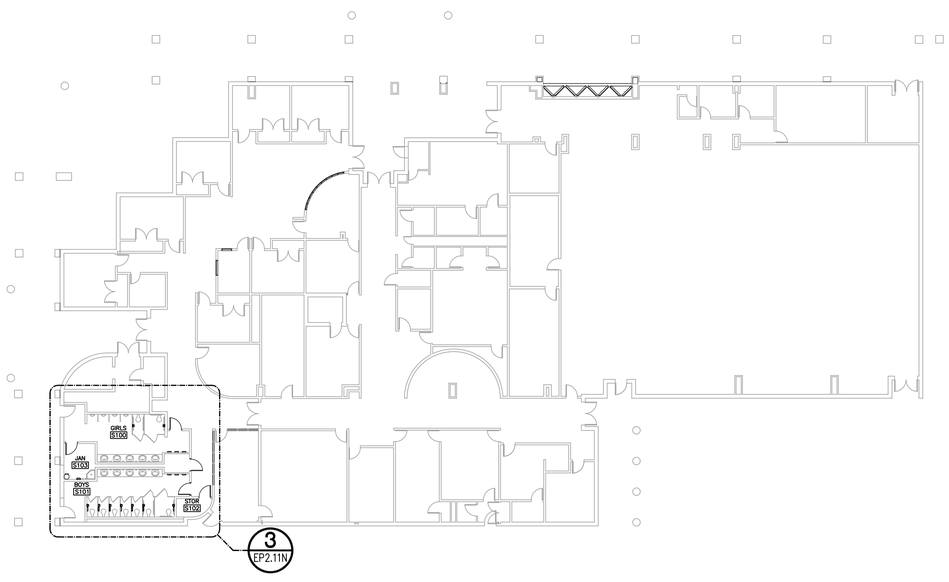
K. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.

L. PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT. TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.

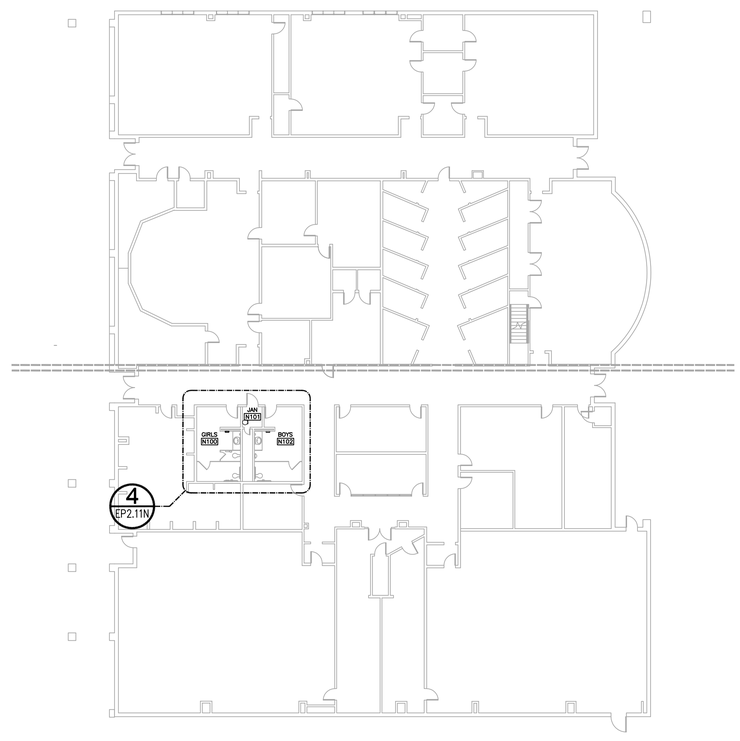
M. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

KEYED NOTES:

1. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED.
2. REMOVE TEMPORARY SUPPORT STRUCTURE AND REINSTALL EXISTING FIRE ALARM PANEL ON NEW WALL ALONG WITH ALL ASSOCIATED BATTERY CABINETS, EXTENDER PANELS, WIREWAYS, CONDUIT AND DEVICES. CONTRACTOR SHALL EXTENT FIRE ALARM CIRCUITS AS REQUIRED DUE TO FACP RELOCATION. CONTRACTOR SHALL KEEP FIRE ALARM SYSTEM DOWNTIME TO A MINIMUM. COORDINATE ANY REQUIRED DOWNTIME WITH OWNER.
3. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/2P BREAKER AS REQUIRED FOR ELECTRICAL CONNECTION TO WATER HEATER.
4. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED FOR ELECTRICAL CONNECTION TO CIRCULATION PUMP. PUMP SHALL BE CONTROLLED VIA TIME SWITCH, REFER TO PLUMBING SCHEDULE FOR TIME SWITCH TYPE. TIME SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.



1 EP2.11N ELECTRICAL PLAN - BUILDING S
1/16"=1'-0"



2 EP2.11N ELECTRICAL PLAN - BUILDING N
1/16"=1'-0"

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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COLLEGE³ READY. CONNECTED. COMPLETE.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
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Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING S & BUILDING N ELECTRICAL POWER PLAN

EP2.11N

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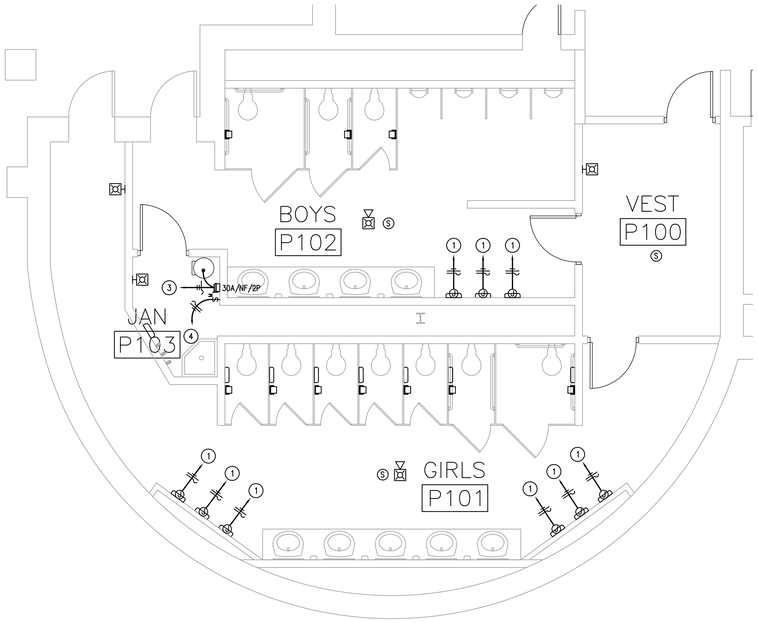
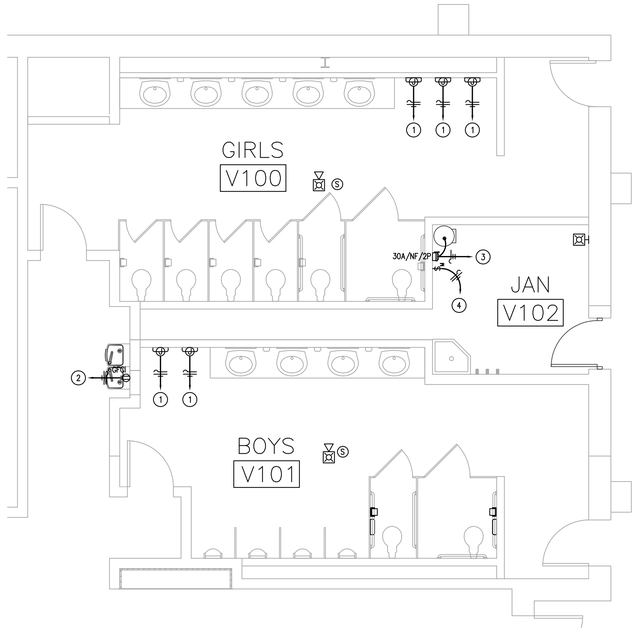
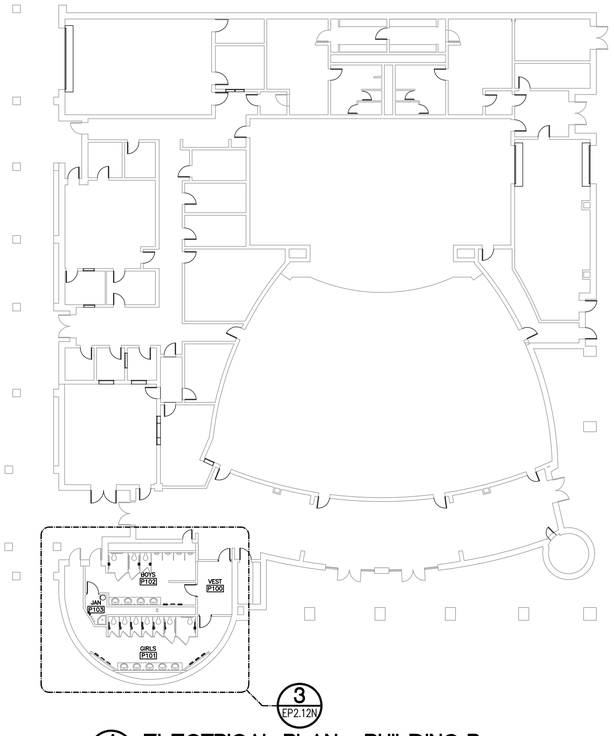
N:\19\198008.000\Drawings\DEP-198008-NORTH-01.dwg



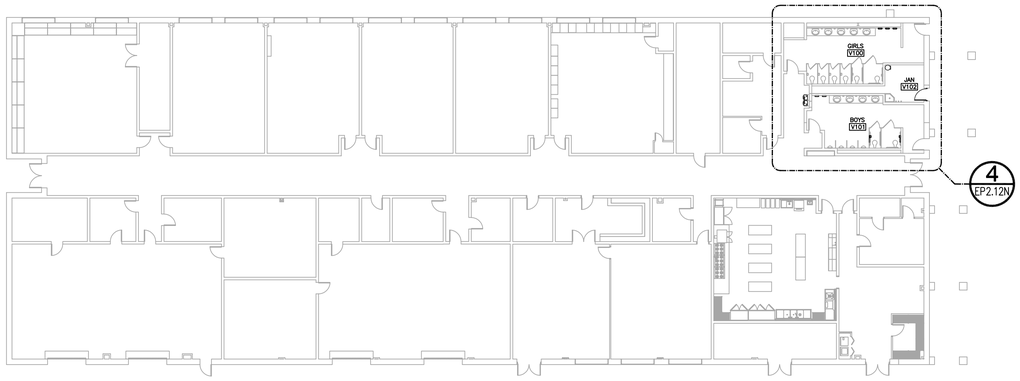
3 EP2.12N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"



4 EP2.12N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"



1 EP2.12N ELECTRICAL PLAN - BUILDING P
1/16"=1'-0"



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M. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

KEYED NOTES:

1. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED.
2. CONNECT TO EXISTING ELECTRICAL WATER COOLER CIRCUIT. FIELD VERIFY.
3. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/2P BREAKER AS REQUIRED FOR ELECTRICAL CONNECTION TO WATER HEATER.
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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
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MEP:
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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING P & BUILDING V ELECTRICAL POWER PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000

DM	MG	JCH	TL	–

EP2.12N

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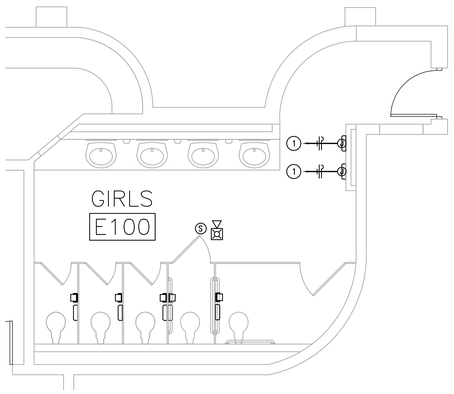
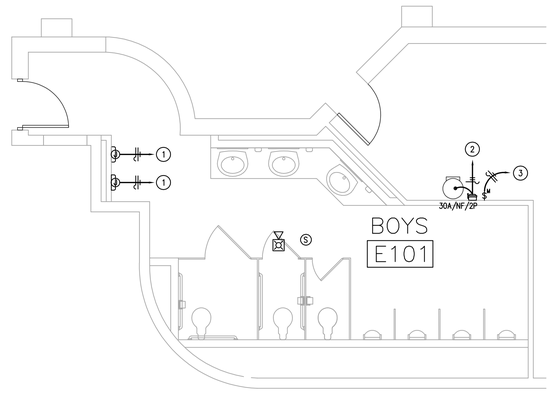
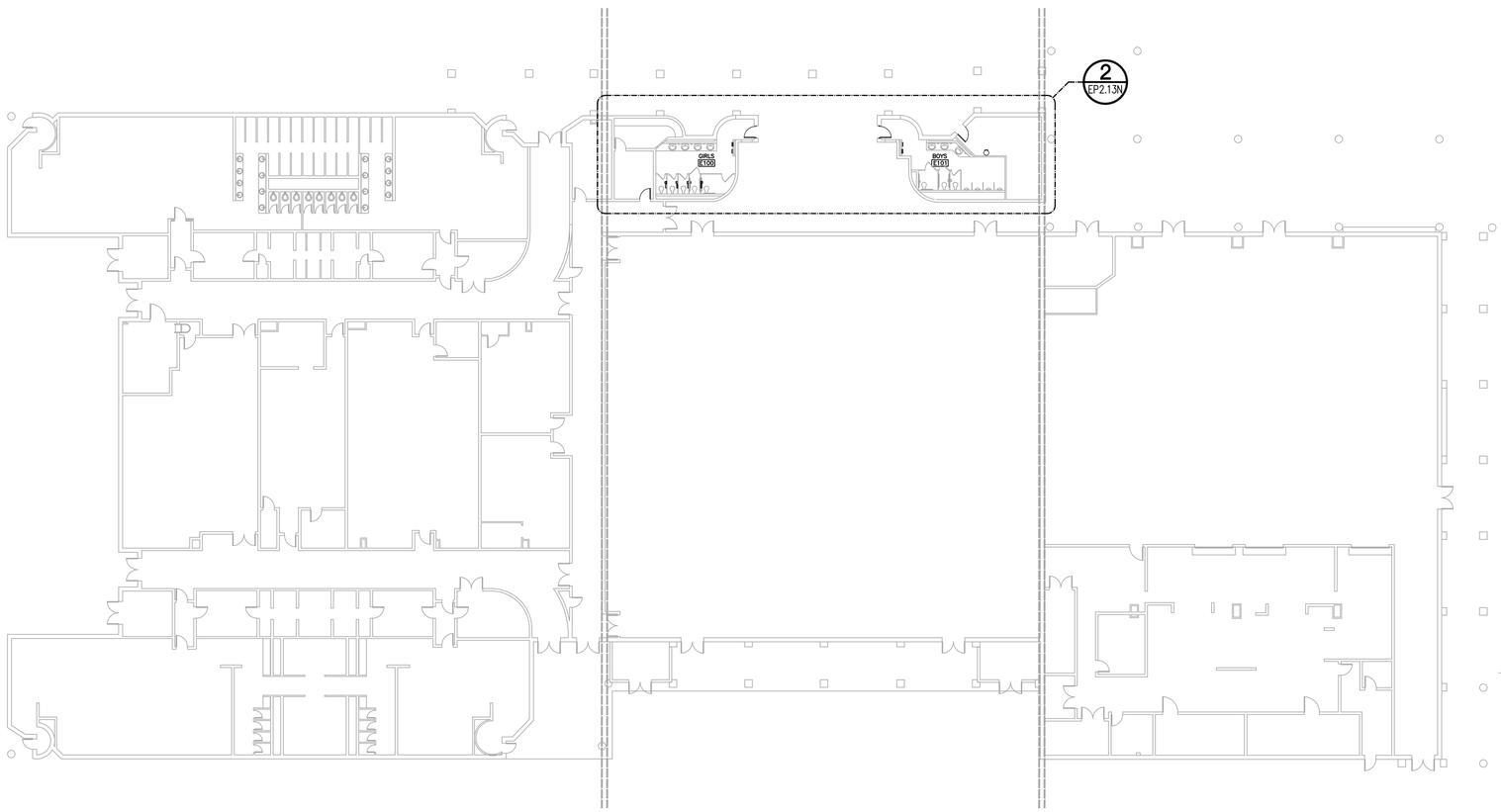


2 EP2.13N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"





1 EP2.13N ELECTRICAL PLAN - BUILDING E
1/16"=1'-0"

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G. PROVIDE A DEDICATED HOT, NEUTRAL, AND GROUND FOR ALL COPY MACHINES.

H. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2011 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING E ELECTRICAL POWER PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

EP2.13N

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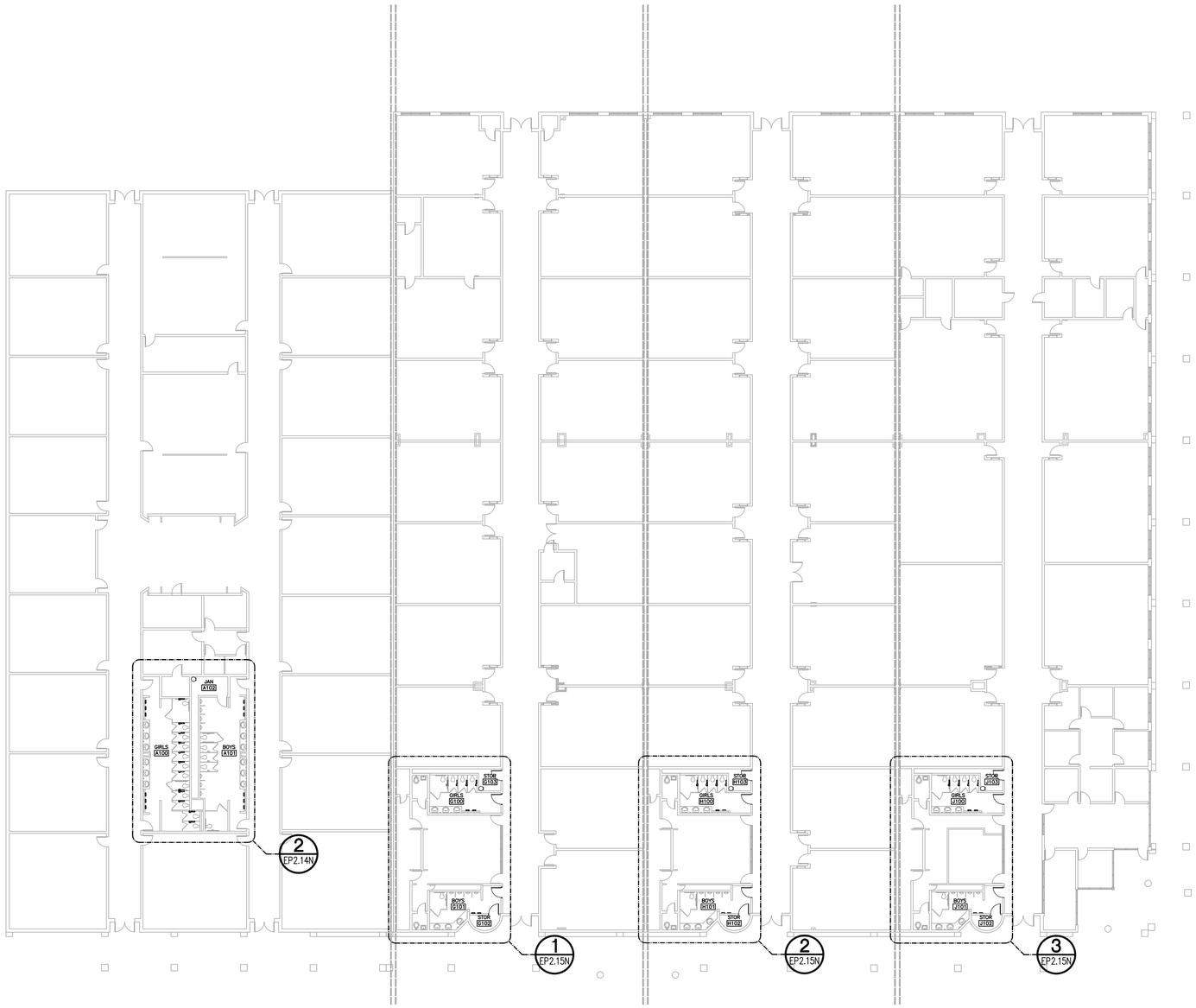
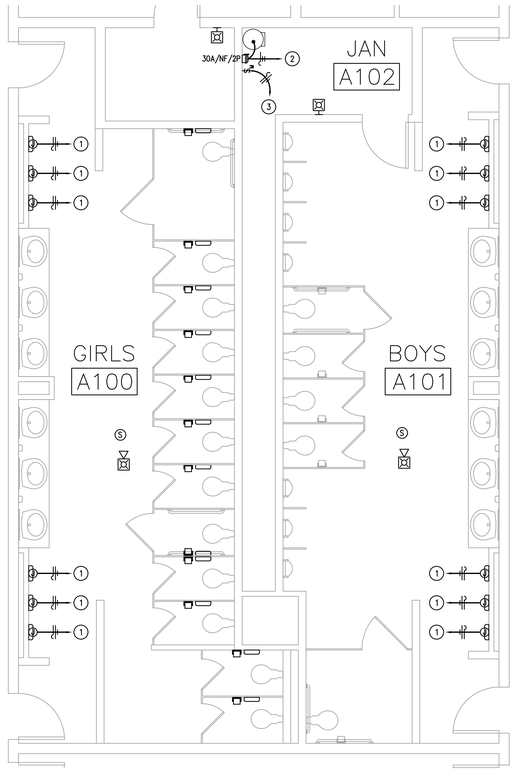


1 EP2.14N ELECTRICAL PLAN - BUILDING A-G-H-J
1/16"=1'-0"



2 EP2.14N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

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05-10-19

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

BUILDING A-G-H-J ELECTRICAL POWER PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

EP2.14N

May 08, 2019 - 7:20pm User: jchavez
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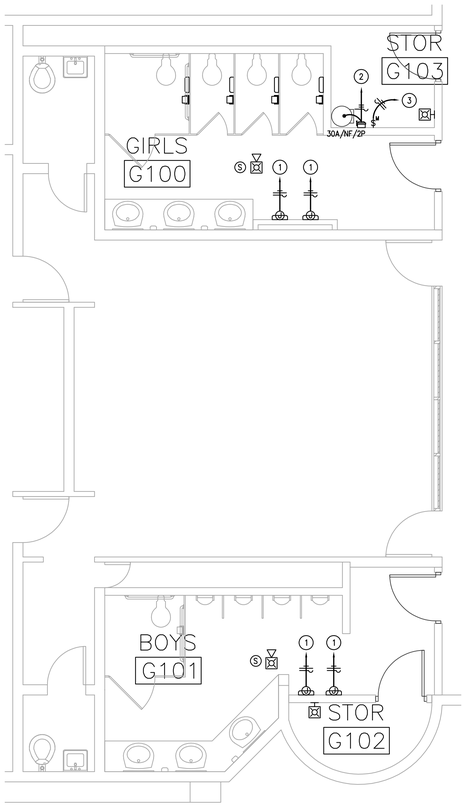

1 EP2.15N ENLARGED ELECTRICAL PLAN
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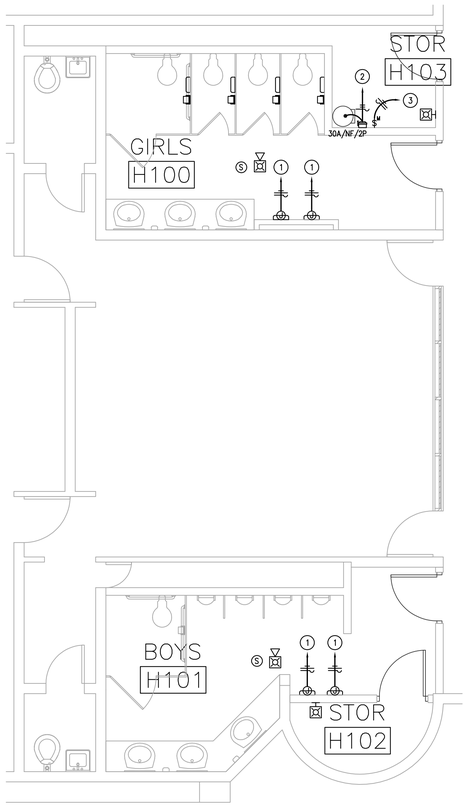

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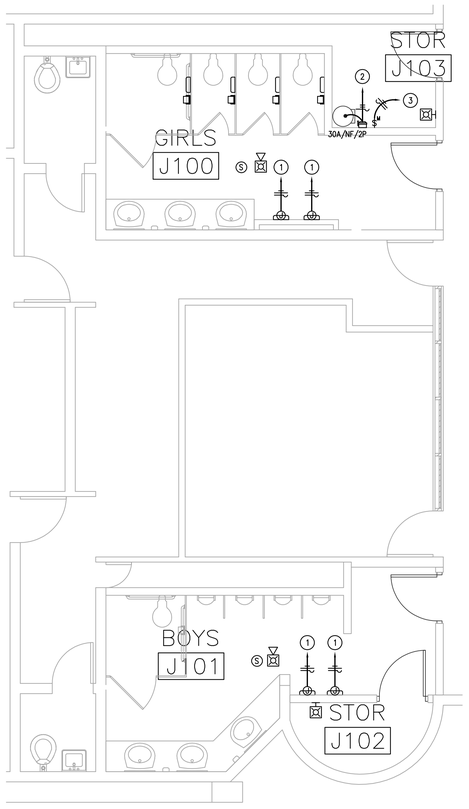

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Project Number:	19.04
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Revisions:

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BUILDING A-G-H-J ELECTRICAL POWER PLAN

DBR
200 South 10th Street Suite 901
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TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
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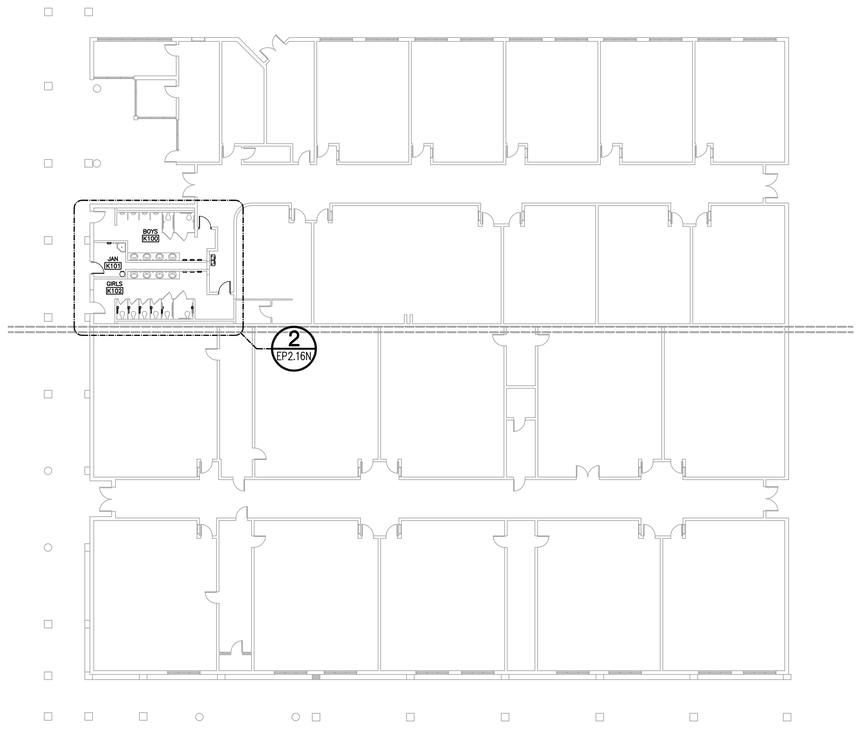
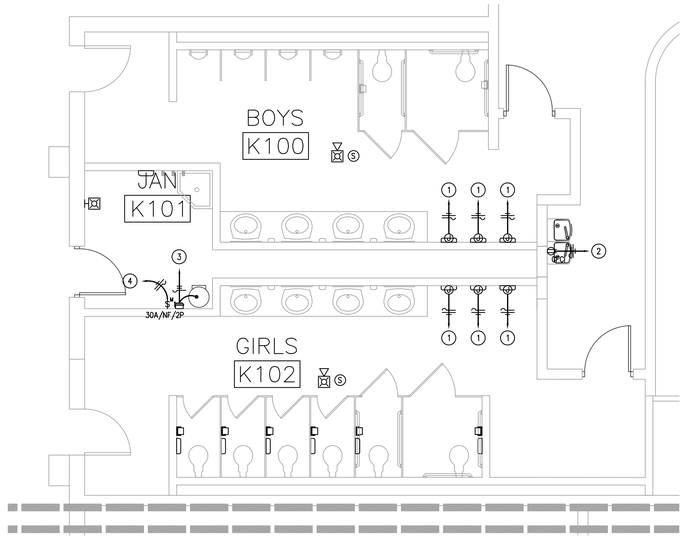
3. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/2P BREAKER AS REQUIRED FOR ELECTRICAL CONNECTION TO WATER HEATER.
4. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED FOR ELECTRICAL CONNECTION TO CIRCULATION PUMP. PUMP SHALL BE CONTROLLED VIA TIME SWITCH, REFER TO PLUMBING SCHEDULE FOR TIME SWITCH TYPE. TIME SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.



1 EP2.16N ELECTRICAL PLAN - BUILDING K
1/16"=1'-0"



2 EP2.16N ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
76295
LICENSED
PROFESSIONAL ENGINEER
05-10-2019

COLLEGE 3
READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
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Checked:	JM
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Revisions:

Sheet Title:

BUILDING K ELECTRICAL POWER PLAN

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

EP2.16N

May 08, 2019 - 7:20pm User: jchavez
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LIGHT FIXTURE SCHEDULE

TYPE	MANUF.	CATALOG No.	MOUNTING	LAMPS #	LAMPS TYPE	LAMPS COLOR	VOLTAGE	INPUT W	MOUNTING HEIGHT *	REMARKS	NOTES:
A	LITHONIA	LDN6-40/10-LO6/AR-LSS-MVOLT-GZ10	RECESSED	-	LED	4000K	MVOLT	13	9'	6" RECESSED LED CAN LIGHT.	
AE	LITHONIA	LDN6-40/10-LO6/AR-LSS-MVOLT-GZ10-ELR	RECESSED	-	LED	4000K	MVOLT	13	9'	6" RECESSED LED CAN LIGHT WITH BATTERY.	
B	LITHONIA	CLX-L48-3000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH-HC36	SUSPENDED	-	LED	4000K	MVOLT	21	9'	4' LED STRIP LIGHT WITH LENS.	
X	LITHONIA	LQM-S-W-3-R-120/277-EL N	SURFACE	-	LED	-	MVOLT	6	-	LED EXIT SIGN WITH RED LETTERING.	

* MOUNTING HEIGHT APPLIES TO ALL FIXTURES NOT SURFACE MOUNTED TO CEILING OR STRUCTURE, OR RECESSED INTO CEILING. MOUNT ALL FIXTURES TO SCHEDULED MOUNTING HEIGHT, MEASURED TO BOTTOM OF FIXTURE, UNLESS NOTED OTHERWISE ON DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT. SEE ARCHITECTURAL ELEVATIONS.

NOTES:

ALL FIXTURES WITH 'E' SUFFIX (A1E) SHALL HAVE [**BODINE GTD -OR- EMERGENCY BATTERY PACK**].

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ELECTRICAL SCHEDULES

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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

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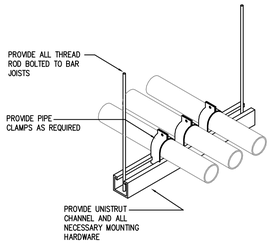
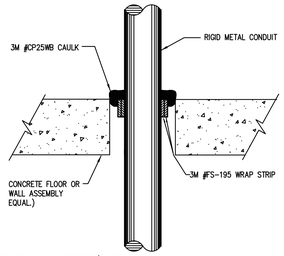
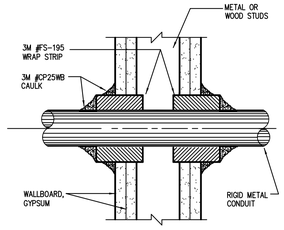


10 UNISTRUT CONDUIT DETAIL
NOT TO SCALE



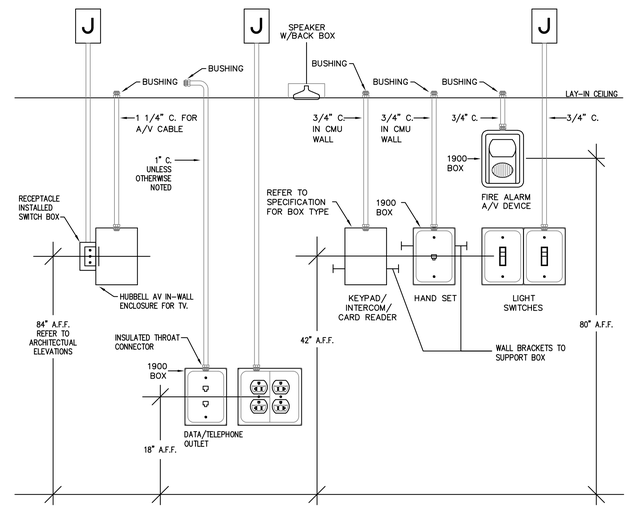
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

7 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE FLOOR AND WALL
NOT TO SCALE



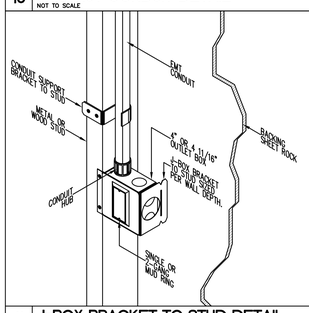
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

4 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION
NOT TO SCALE

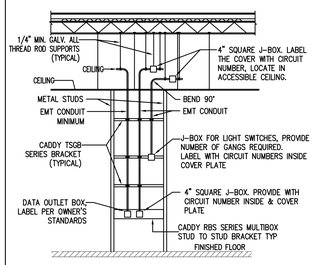


NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

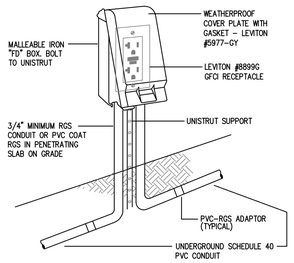
1 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE



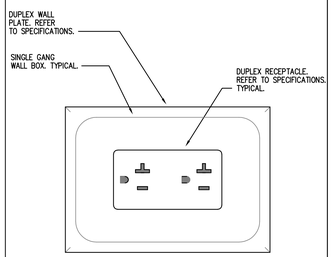
11 J-BOX BRACKET TO STUD DETAIL
NOT TO SCALE



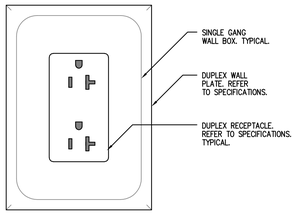
8 CONDUIT ROUGH-IN DETAIL
NOT TO SCALE



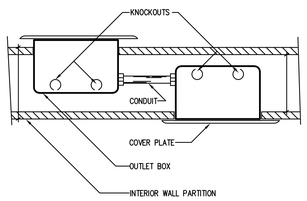
5 RECEPTACLE MOUNTING DETAIL
NOT TO SCALE



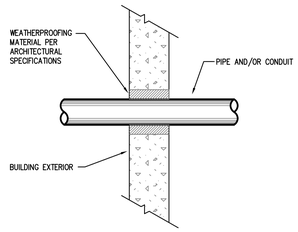
9 HORIZONTAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE



6 TYPICAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE



3 BACK-TO-BACK OUTLETS
NOT TO SCALE



2 PIPE AND/OR CONDUIT PENETRATION
NOT TO SCALE

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

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ELECTRICAL DETAILS

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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PLUMBING SYMBOLS AND ABBREVIATIONS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
AC	ABOVE CEILING
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CP	CIRCULATING PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CONT	CONTINOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CRAC	COMPUTER ROOM A/C UNIT
CTR	CENTER
CU	COPPER
CW	COLD WATER

D

D	DEPTH, DRAIN, DRYER
DESIG	DESIGNATION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT, DOUBLE SUCTON
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP

E

EA	EACH
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPTMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EXT	EXTERNAL
EXTG	EXISTING

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATON
FD	FLOOR DRAIN, FIRE DAMPER
FDSC	FIRE DEPARTMENT SIAMESE CONNECTION
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FIXT	FIXTURE
FLEX	FLEXIBLE
FL	FLOW LINES
FLR	FLOOR
FP	FIRE PUMP
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FSK	FLOOR SINK
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HORIZ	HORIZONTAL
HP	HORSEPOWER
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT– AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWCO	LOW WATER CUT OFF

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE–UP

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK
O	MEDICAL OXYGEN

P

P	PUMP, PLUMBING EQUIPTMENT
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE, POST HYDRANT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI.	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REINF	REININGFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SCHED	SCHEDULED
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER

T

TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TYP	TYPICAL

U

U	URINAL
UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VERT	VERTICAL
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC
WT	WATERTIGHT, WEIGHT

Y

Y	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

	SANITARY DRAIN BELOW FLOOR
	SANITARY DRAIN ABOVE FLOOR
	SANITARY VENT
GW	GREASE WASTE(ABOVE CEILING)
GW	GREASE WASTE(BELOW FLOOR)
SD	STORM DRAIN(ABOVE CEILING)
SD	STORM DRAIN(BELOW FLOOR)
OD	OVERFLOW DRAIN(ABOVE CEILING)
OD	OVERFLOW DRAIN(BELOW FLOOR)
AW	ACID WASTE(ABOVE CEILING)
AW	ACID WASTE(BELOW FLOOR)
AV	ACID VENT(ABOVE CEILING OR BELOW FLOOR)
	COLD WATER
110°	HOT WATER(FINAL DELIVERY TEMPERATURE AS NOTED)
110°	HOT WATER RECIRCULATION (TEMPERATURE AS NOTED)
G	NATURAL GAS
T 110°	TEMPERED WATER(FINAL DELIVERY TEMPERATURE AS NOTED)
CA	COMPRESSED AIR
A	MEDICAL AIR
O	MEDICAL OXYGEN
V	MEDICAL VACUUM
F	FIRE STANDPIPE, FIRE LINE
FS	WET AUTOMATIC FIRE SPRINKLER
TP	TRAP PRIMER
D	DRAIN LINE
SW	SOFT WATER

SYMBOLS

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- PIPE ANCHOR
- EXPANSION JOINT
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO–WAY MODULATING CONTROL VALVE
- THREE–WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- YARD CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- WATER METER
- FLEXIBLE CONNECTION
- PRESSURE AND TEMPERATURE TAP
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- WATER HAMMER ARRESTOR
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING

MISCELLANEOUS

1	PLUMBING DRAWING NOTE REFERENCE
2 / P2.1	DETAIL NUMBER OR PLAN SHEET WHERE DETAIL OR PLAN IS SHOWN
FS	FLOW SWITCH
TS	TAMPER SWITCH
	FIRE HOSE CABINET
	FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
	FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
2 / P7.1	PLUMBING RISER DIAGRAM NUMBER SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

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MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
78295
LICENSED
PROFESSIONAL ENGINEER
05-10-2019

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NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

PLUMBING LEGENDS

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956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

P-000N

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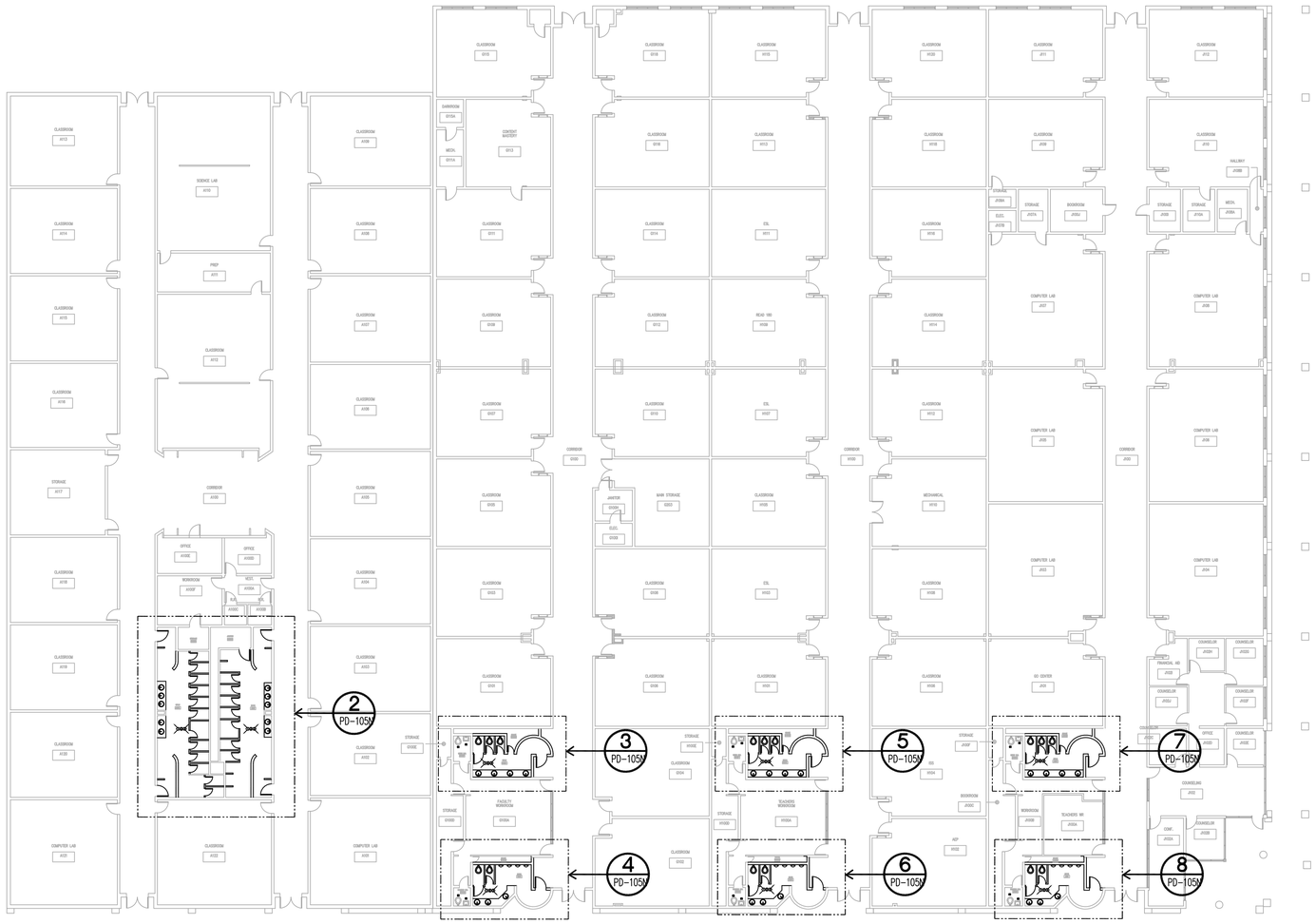
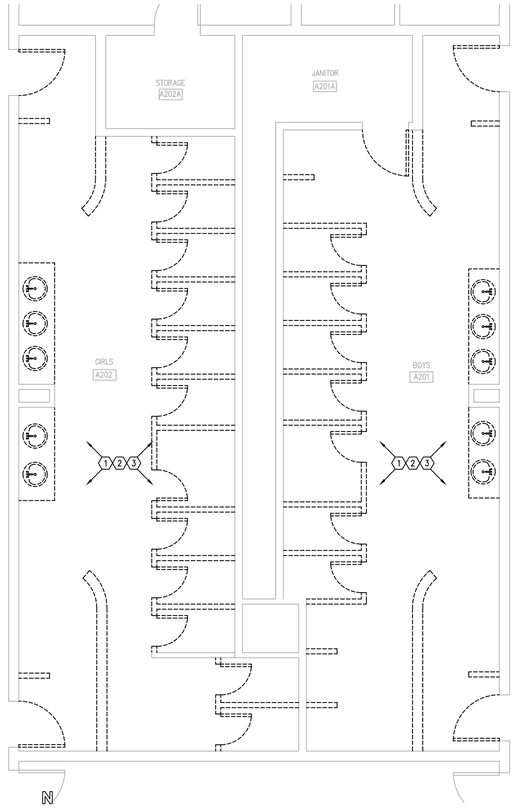
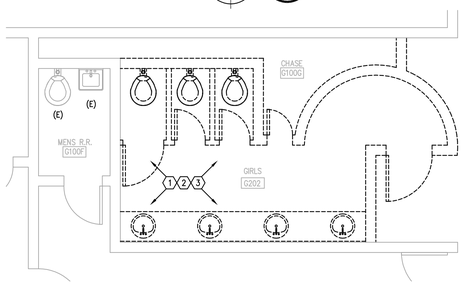


1 PD-105N PLUMBING DEMOLITION PLAN - NORTH CAMPUS BLDGS. A, G, H, J
1/16"=1'-0"



2 PD-105N ENLARGED DEMO PLAN-BUILDING A
1/4"=1'-0"



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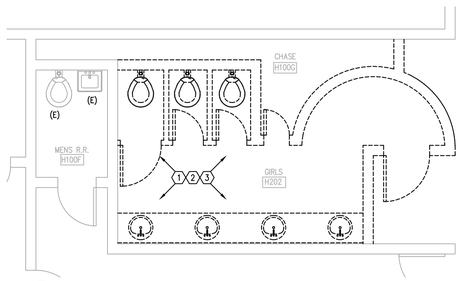

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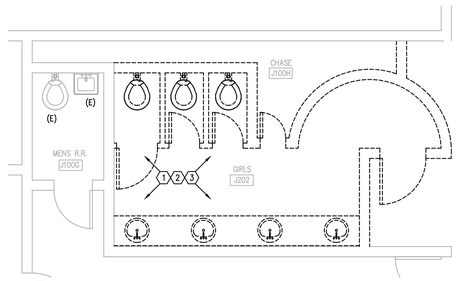
1/4"=1'-0"



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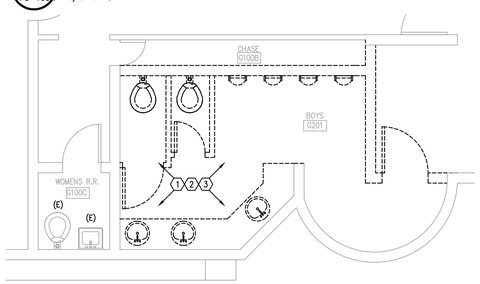
1/4"=1'-0"



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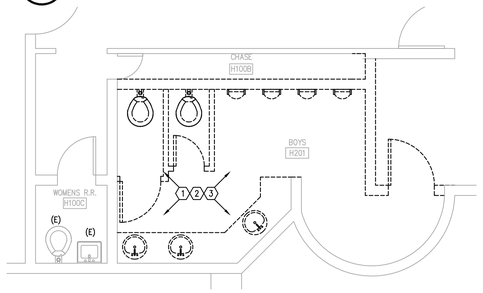
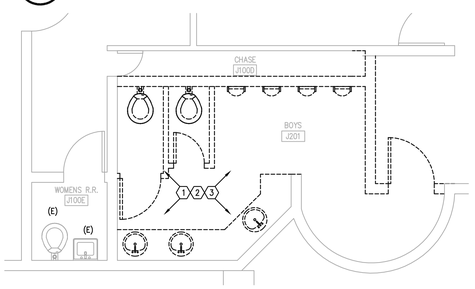
1/4"=1'-0"



6 PD-105N ENLARGED DEMO PLAN-BUILDING H
1/4"=1'-0"



8 PD-105N ENLARGED DEMO PLAN-BUILDING J
1/4"=1'-0"

FIRE PROTECTION NOTES:

A. CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

B. PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

C. PROVIDE AND INSTALL SURFACE MOUNTED FIRE EXTINGUISHERS. TYPE AND QUANTITY AND LOCATIONS SHALL BE PER LOCAL AUTHORITIES.

D. A STATE LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR MUST SUBMIT SHOP DRAWINGS DIRECTLY TO THE CITY FIRE DEPARTMENT FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF THE PROPOSED FIRE SPRINKLER AND ALARM SYSTEM WORK. THESE SHOP DRAWINGS MUST BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO THE CONTRACTOR BEGINNING THE WORK. ALL WORK MUST BE IN COMPLIANCE WITH THE APPLICABLE NFPA STANDARDS AND THE INTERNATIONAL FIRE CODE.

E. PRIOR TO SHUT-DOWN OF ANY EXISTING FIRE PROTECTION SYSTEM, CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S APPONTED REPRESENTATIVE 5 DAYS PRIOR TO SERVICE INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING SYSTEM TO FULL OPERATION.

GENERAL NOTES:

A. NO EXISTING ENGINEERING PLANS WERE PROVIDED FOR THIS BUILDING. PLUMBER TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES. SITE VISIT IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

PLUMBING DEMO KEYED NOTES:

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND PLUMBING EQUIPMENT INCLUDING ALL ROUGH-INS AND APPURTENANCES. ALL NEW DOMESTIC WATER LINES TO BE PROVIDED, NEW DRAIN AND VENT ROUGH-INS TO BE PROVIDED. SANITARY VENTS AND UNDERGROUND WASTE TO REMAIN. REFER TO ARCHITECTURAL PLANS AND PLUMBING PLANS (SHEET P-105N) FOR NEW WORK.

2. REWORK/ADJUST ROUGH-INS AS NECESSARY FOR SERVICE TO NEW FIXTURES.

3. PROVIDE NEW ROUGH-INS FOR ADDED/ADJUSTED FIXTURES. CONNECT TO EXISTING WASTE AND VENT LINES. REFER TO NEW WORK ON SHEET P-105N.

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STUDENT RESTROOM RENOVATIONS

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Revisions:

Sheet Title:

PLUMBING PLANS - NORTH CAMPUS BLDGS. A, G, H, J

PD-105N

May 08, 2019 - 8:09am User: tleochico
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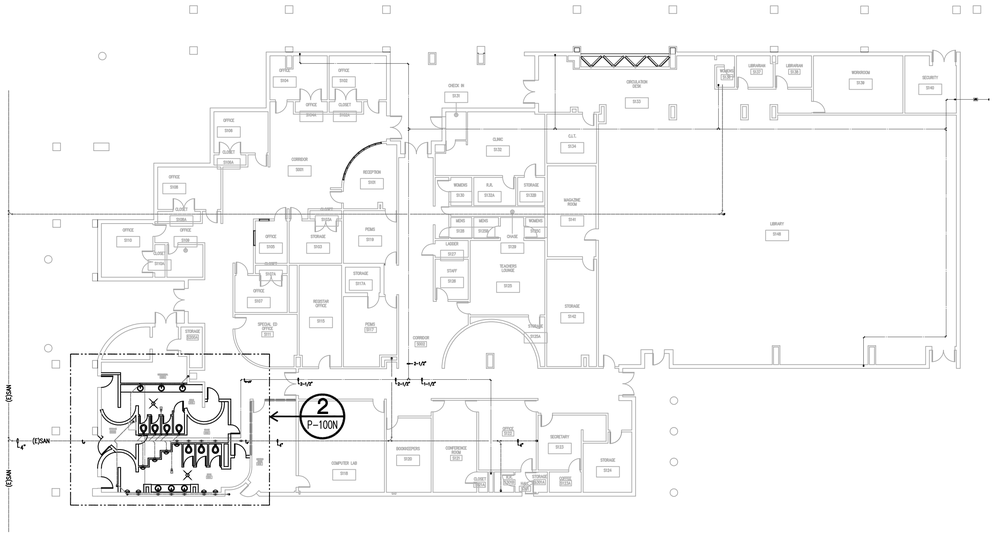
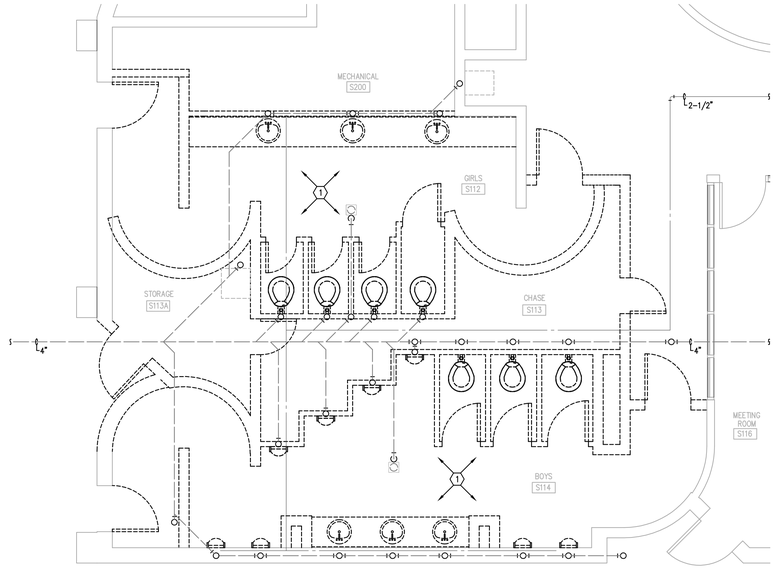


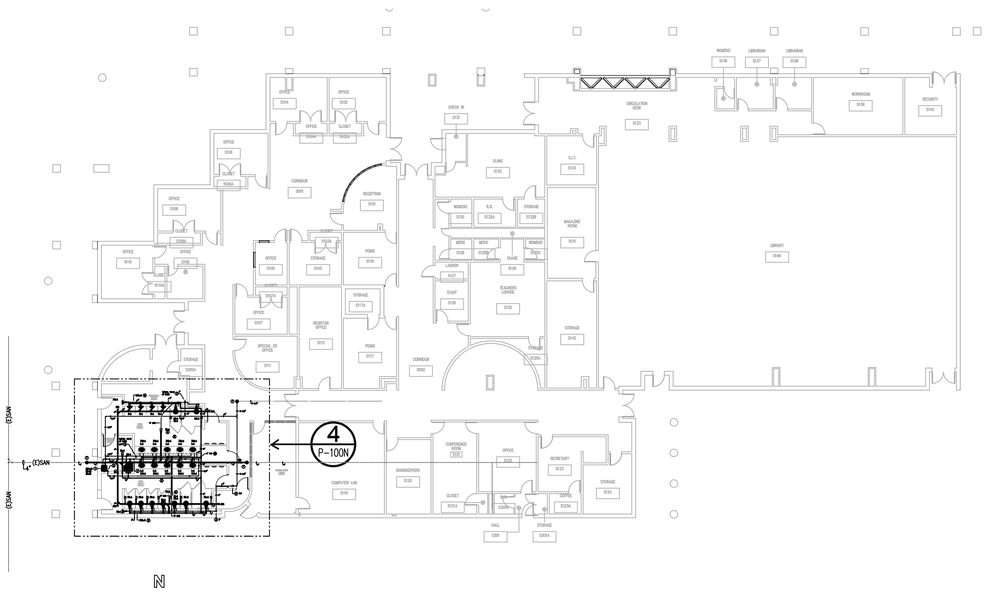
1 P-100N PLUMBING DEMOLITION PLAN - NORTH CAMPUS BLDG. S

3/32"=1'-0"



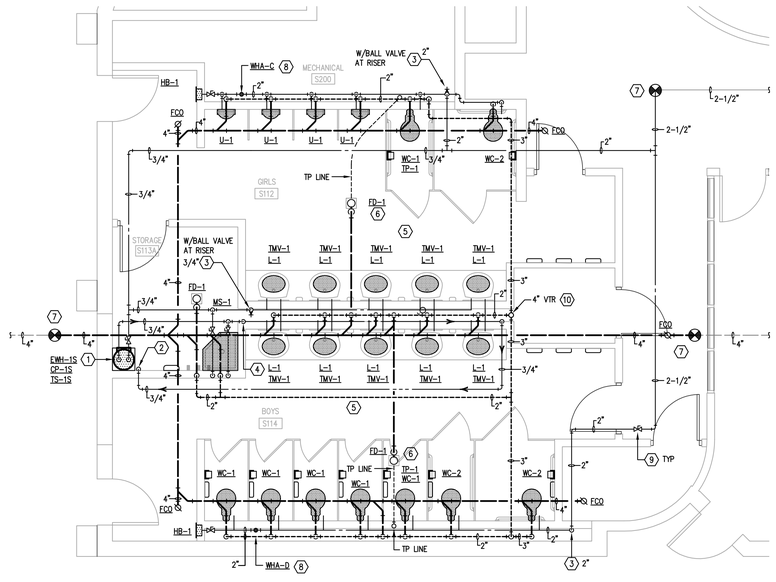
2 P-100N ENLARGED PLUMBING DEMO PLAN - NORTH CAMPUS BLDG. S

1/4"=1'-0"



3 P-100N PLUMBING PLAN - NORTH CAMPUS BLDG. S

3/32"=1'-0"



4 P-100N ENLARGED PLUMBING PLAN - NORTH CAMPUS BLDG. S

1/4"=1'-0"

GENERAL NOTES:

- (A) SIZES AND LOCATION OF EXISTING PIPINGS SHOWN WERE TAKEN FROM ENGINEERING PLANS FROM WHICH EXISTING SYSTEMS WERE INSTALLED. CONTRACTOR NEED TO FIELD VERIFY EXACT SIZES, CONDITIONS AND LOCATIONS OF INDICATED EXISTING UTILITIES.
- (B) ALL FIXTURES, EQUIPMENT AND PLUMBING LINES SHOWN WITH (E) ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- (C) THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING ALL WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES INCLUDING THOSE PUBLISHED BY OSHA AND EPA.
- (D) THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED PRIOR TO BIDDING. CONTRACTOR SHALL IDENTIFY/VERIFY ALL PLUMBING LINES BEFORE STARTING ANY DEMOLITION WORK.
- (E) CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.
- (F) ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- (G) PROVIDE ALL WORK REQUIRED FOR THE REMOVAL OF FIXTURES TO BE DEMOLISHED AND INSTALLATION OF NEW FIXTURES AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- (H) PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCH'L DOCUMENTS IN ADDITION TO THE DIVISION 22, 23 AND 26 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
- (I) COORDINATE DEMOLITION OF DIVISION 22 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- (J) ALL EXISTING EXTERIOR GAS LINES IN THE CAMPUS TO REMAIN, UNLESS NOTED OTHERWISE.
- (K) ALL EXISTING ROOF DRAINS, GUTTERS AND DOWNSPOUTS TO REMAIN. UNLESS NOTED OTHERWISE.

PLUMBING DEMO KEYED NOTES:

- (1) REMOVE ALL EXISTING PLUMBING FIXTURES AND PLUMBING EQUIPMENT INCLUDING ALL ASSOCIATED PLUMBING LINES AND APPURTENANCES. REFER TO ARCHITECTURAL PLANS AND PLUMBING PLAN (4/P-100N) FOR NEW WORK.

GENERAL NOTES:

- (A) NO EXISTING ENGINEERING PLANS WERE PROVIDED FOR THIS BUILDING. PLUMBER TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES. SITE VISIT IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

FIRE PROTECTION NOTES:

- (A) CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.
- (B) PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.
- (C) PROVIDE AND INSTALL SURFACE MOUNTED FIRE EXTINGUISHERS. TYPE AND QUANTITY AND LOCATIONS SHALL BE PER LOCAL AUTHORITIES.
- (D) A STATE LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR MUST SUBMIT SHOP DRAWINGS DIRECTLY TO THE CITY FIRE DEPARTMENT FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF THE PROPOSED FIRE SPRINKLER AND ALARM SYSTEM WORK. THESE SHOP DRAWINGS MUST BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO THE CONTRACTOR BEGINNING THE WORK. ALL WORK MUST BE IN COMPLIANCE WITH THE APPLICABLE NFPA STANDARDS AND THE INTERNATIONAL FIRE CODE.
- (E) PRIOR TO SHUT-DOWN OF ANY EXISTING FIRE PROTECTION SYSTEM, CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S APPOINTED REPRESENTATIVE 5 DAYS PRIOR TO SERVICE INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING SYSTEM TO FULL OPERATION.

NOTE:

DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES. REFER TO RISER DIAGRAMS FOR M ORE PIPE SIZING INFORMATION AND OTHER REQUIREMENTS.

PLUMBING KEYED NOTES

- (1) WALL HUNG ELECTRIC WATER HEATER WITH RECIRCULATION SYSTEM. RE: 15/P-402N.
- (2) 3/4" HOT WATER RETURN DROP TO CIRCULATING PUMP WITH TIMER SWITCH AND AQUASTAT; SEE DETAIL 15/P-402N.
- (3) COLD WATER DROP TO FIXTURE/S; SIZE AS NOTED. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE.
- (4) HW DROP FOR SERVICE TO LAVS, SIZE AS NOTED. RUN RECIRCULATING LINE WITHIN 2 FEET OF HW ROUGH-INS FOR IECC COMPLIANCE.
- (5) PROVIDE TMV-1 (ASSE 1070 LISTED) FOR HOT WATER SUPPLY TO LAVATORY. SET AT MAX. 110°F, INSTALL UNDER FIXTURE AS HIGH AS POSSIBLE FOR CLEAN/NEAT APPEARANCE. RE: 14/P-402N.
- (6) REPLACE EXISTING FLOOR DRAIN IN ITS CURRENT LOCATION. PROVIDE WITH TRAP PRIMER (TP-1) SEWER GAS PROTECTION DEVICE.
- (7) POINT OF CONNECTION TO EXISTING UTILITY. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES.
- (8) WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE WALL/CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH WALL/CEILING. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.
- (9) BALL VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE WALL/CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH WALL/CEILING. PROVIDE MARKING OF VALVE LOCATION ALONG THE CEILING TILE.
- (10) PROVIDE NEW VTR AT LOCATION OF EXISTING, FIELD VERIFY LOCATION OF EXISTING VTR.

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
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Revisions:

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PLUMBING PLANS - NORTH CAMPUS BLDG. S

P-100N

May 08, 2019 - 8:07am User: tleochico
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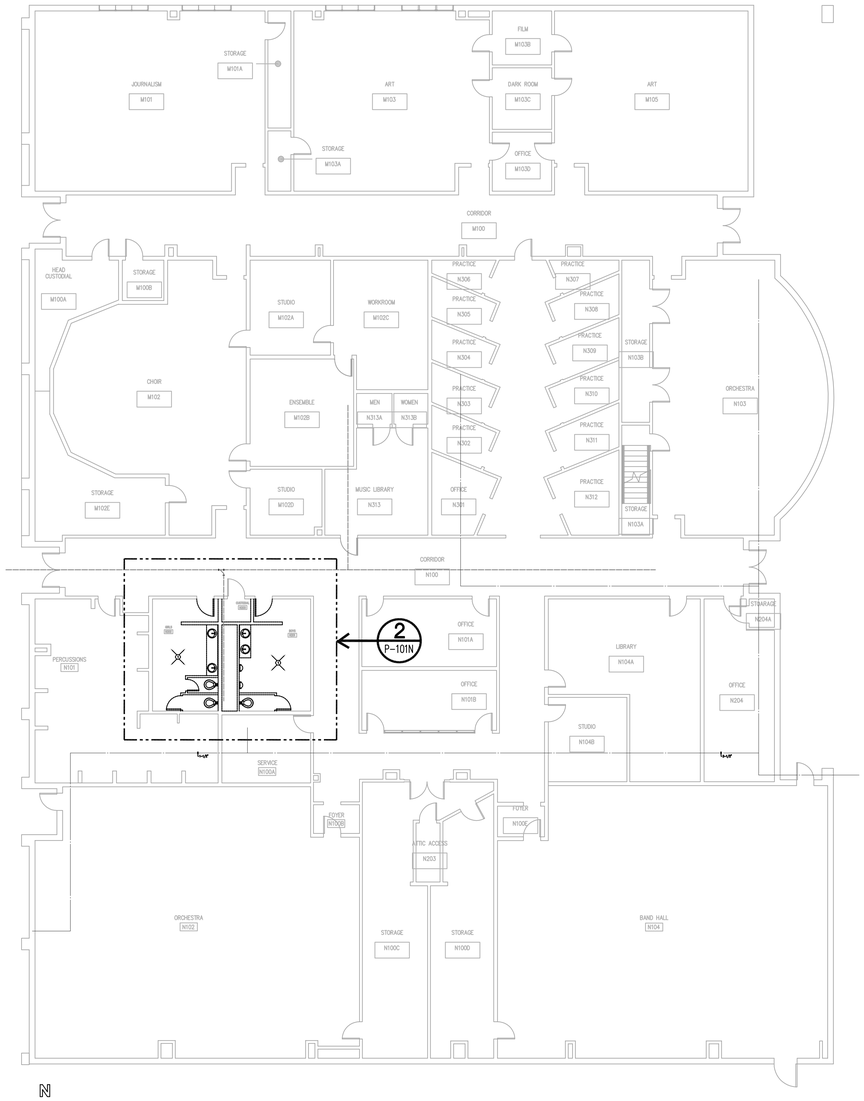

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1 P-101N PLUMBING DEMOLITION PLAN - NORTH CAMPUS BLDG. N

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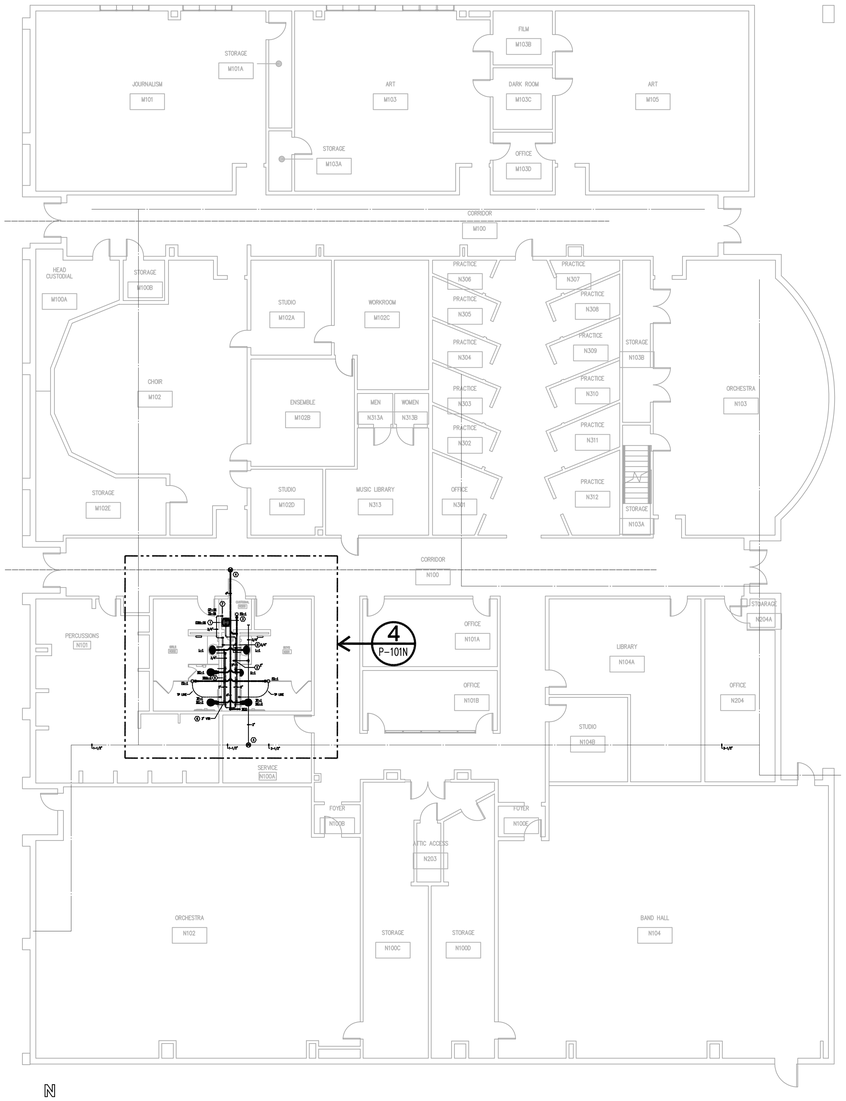

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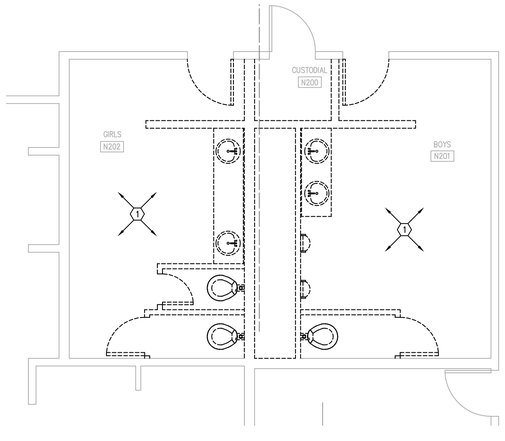
3 P-101N ENLARGED PLUMBING PLAN - NORTH CAMPUS BLDG. N

3/32"=1'-0"



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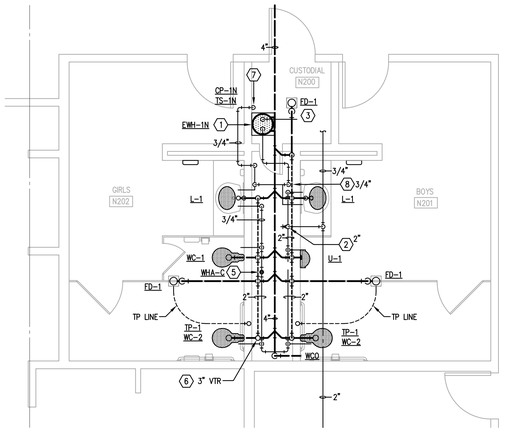
2 P-101N PLUMBING PLAN - NORTH CAMPUS BLDG. N

1/4"=1'-0"



N

4 P-101N PLUMBING PLAN - NORTH CAMPUS BLDG. N

1/4"=1'-0"

GENERAL NOTES:

A. SIZES AND LOCATION OF EXISTING PIPINGS SHOWN WERE TAKEN FROM ENGINEERING PLANS FROM WHICH EXISTING SYSTEMS WERE INSTALLED. CONTRACTOR NEED TO FIELD VERIFY EXACT SIZES, CONDITIONS AND LOCATIONS OF INDICATED EXISTING UTILITIES.

B. ALL FIXTURES, EQUIPMENT AND PLUMBING LINES SHOWN WITH (E) ARE EXISTING TO REMAIN. UNLESS NOTED OTHERWISE.

C. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING ALL WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES INCLUDING THOSE PUBLISHED BY OSHA AND EPA.

D. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED PRIOR TO BIDDING. CONTRACTOR SHALL IDENTIFY/VERIFY ALL PLUMBING LINES BEFORE STARTING ANY DEMOLITION WORK.

E. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.

F. ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.

G. PROVIDE ALL WORK REQUIRED FOR THE REMOVAL OF FIXTURES TO BE DEMOLISHED AND INSTALLATION OF NEW FIXTURES AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.

H. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCH'L DOCUMENTS IN ADDITION TO THE DIVISION 22, 23 AND 26 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.

I. COORDINATE DEMOLITION OF DIVISION 22 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.

J. ALL EXISTING EXTERIOR GAS LINES IN THE CAMPUS TO REMAIN. UNLESS NOTED OTHERWISE.

K. ALL EXISTING ROOF DRAINS, GUTTERS AND DOWNSPOUTS TO REMAIN. UNLESS NOTED OTHERWISE.

PLUMBING DEMO KEYED NOTES:

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND PLUMBING EQUIPMENT INCLUDING ALL ASSOCIATED PLUMBING LINES AND APPURTENANCES. REFER TO ARCHITECTURAL PLANS AND PLUMBING PLAN (4/P-100N) FOR NEW WORK.

GENERAL NOTES:

A. NO EXISTING ENGINEERING PLANS WERE PROVIDED FOR THIS BUILDING, PLUMBER TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES. SITE VISIT IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

FIRE PROTECTION NOTES:

A. CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

B. PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

C. PROVIDE AND INSTALL SURFACE MOUNTED FIRE EXTINGUISHERS. TYPE AND QUANTITY AND LOCATIONS SHALL BE PER LOCAL AUTHORITIES.

D. A STATE LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR MUST SUBMIT SHOP DRAWINGS DIRECTLY TO THE CITY FIRE DEPARTMENT FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF THE PROPOSED FIRE SPRINKLER AND ALARM SYSTEM WORK. THESE SHOP DRAWINGS MUST BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO THE CONTRACTOR BEGINNING THE WORK. ALL WORK MUST BE IN COMPLIANCE WITH THE APPLICABLE NFPA STANDARDS AND THE INTERNATIONAL FIRE CODE.

E. PRIOR TO SHUT-DOWN OF ANY EXISTING FIRE PROTECTION SYSTEM, CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S APPOINTED REPRESENTATIVE 5 DAYS PRIOR TO SERVICE INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING SYSTEM TO FULL OPERATION.

NOTE:

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PLUMBING KEYED NOTES

1. WALL HUNG ELECTRIC WATER HEATER WITH RECIRCULATION SYSTEM. RE: 15/P-402N.
2. COLD WATER DROP TO FIXTURES; SIZE AS NOTED. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE.
3. PROVIDE THIS FLOOR DRAIN WITH TRAPGUARD SEWER GAS PROTECTION DEVICE.
4. CONNECT TO EXISTING UTILITY. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES.
5. WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.
6. PROVIDE NEW VTR AT LOCATION OF EXISTING, FIELD VERIFY LOCATION OF EXISTING VTR.
7. 3/4" HOT WATER RETURN DROP TO CIRCULATING PUMP WITH TIMER SWITCH AND AQUASTAT; SEE DETAIL 15/P-402N.
8. HW DROP FOR SERVICE TO LAVS, SIZE AS NOTED. RUN RECIRCULATING LINE WITHIN 2 FEET OF HW ROUGH-INS FOR IECC COMPLIANCE.

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DBR Project Number	198008.000			
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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

PLUMBING PLANS - NORTH CAMPUS BLDG. N

P-101N

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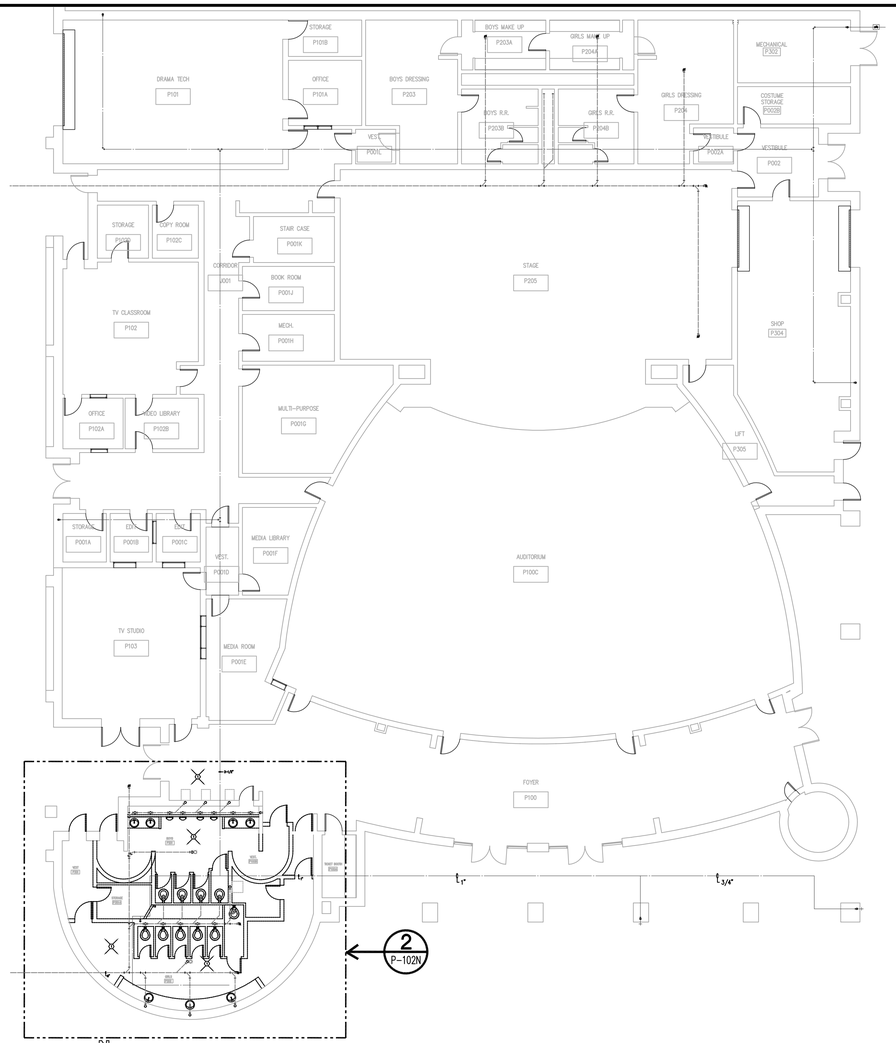
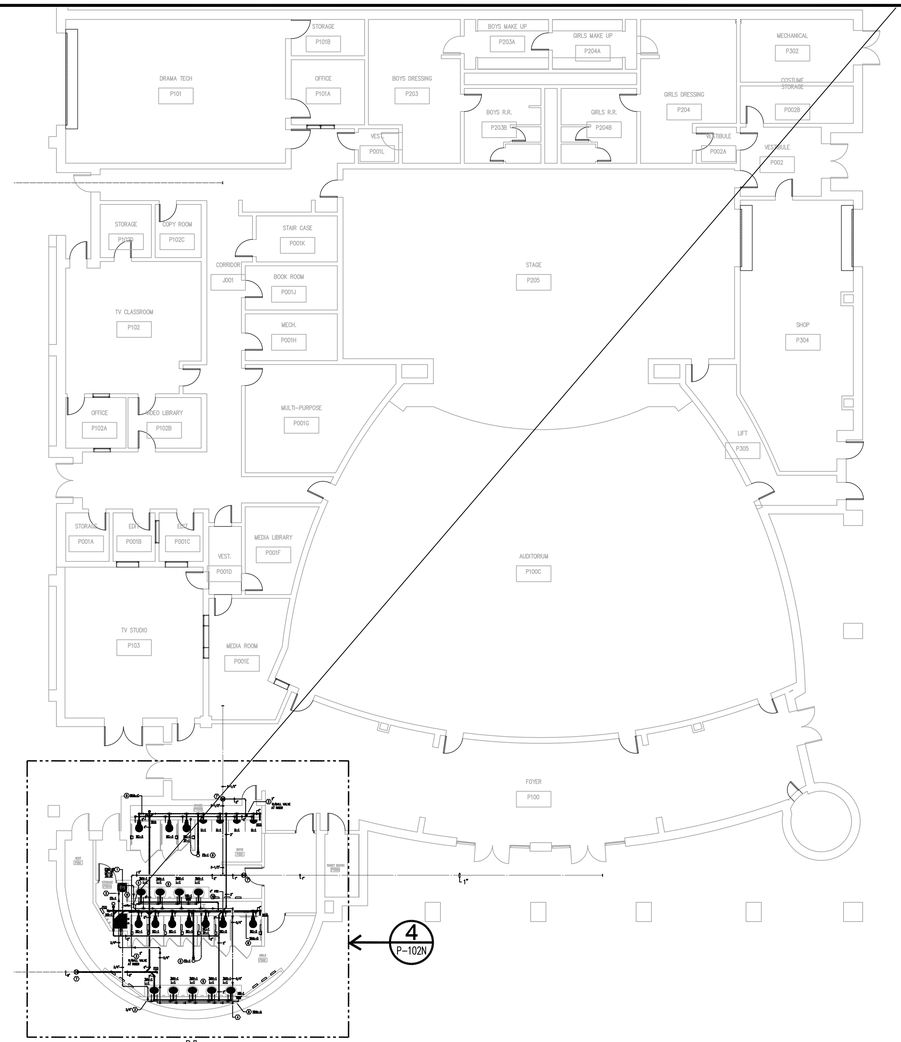


1 PLUMBING DEMOLITION PLAN - NORTH CAMPUS BLDG. P

P-102N 3/32"=1'-0"



3 PLUMBING PLAN - NORTH CAMPUS BLDG. P

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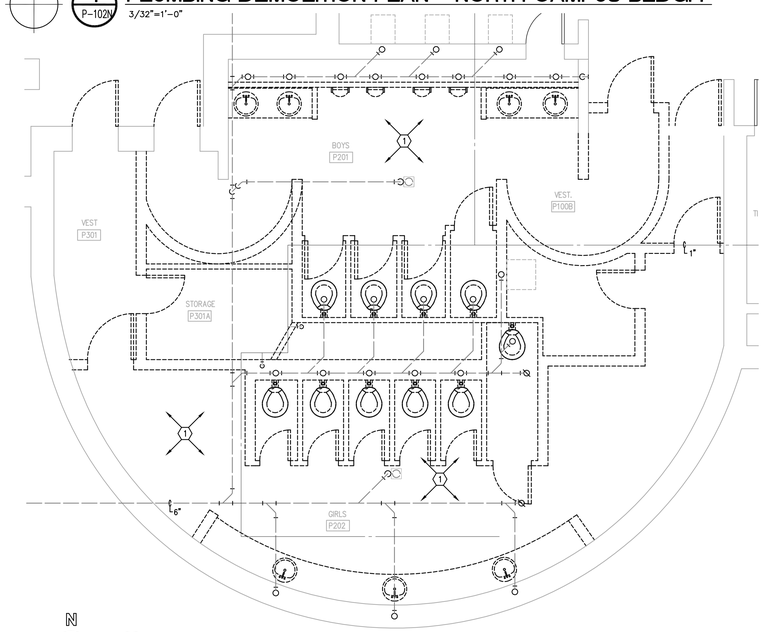
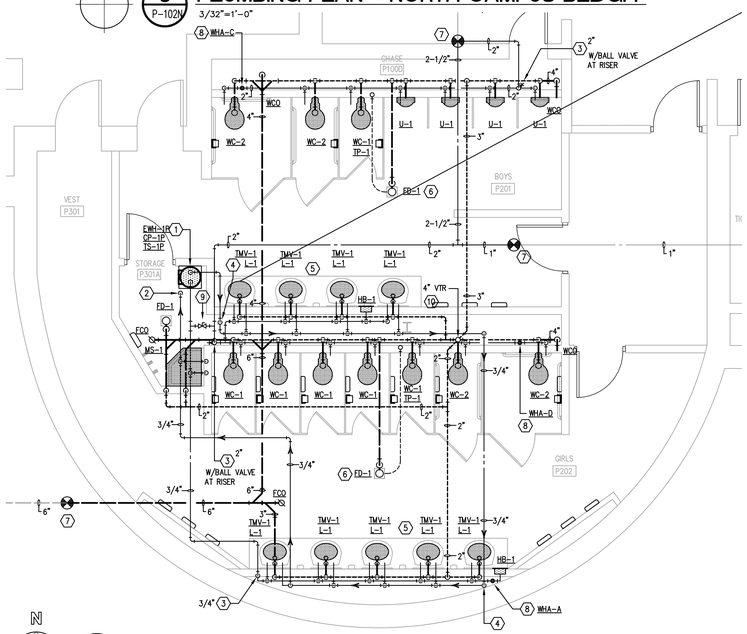


2 ENLARGED DEMO PLAN - NORTH CAMPUS BLDG. P

P-102N 1/4"=1'-0"



4 ENLARGED PLUMBING PLAN - NORTH CAMPUS BLDG. P

P-102N 1/4"=1'-0"

GENERAL NOTES:

A. SIZES AND LOCATION OF EXISTING PIPINGS SHOWN WERE TAKEN FROM ENGINEERING PLANS FROM WHICH EXISTING SYSTEMS WERE INSTALLED. CONTRACTOR NEED TO FIELD VERIFY EXACT SIZES, CONDITIONS AND LOCATIONS OF INDICATED EXISTING UTILITIES.

B. ALL FIXTURES, EQUIPMENT AND PLUMBING LINES SHOWN WITH (E) ARE EXISTING TO REMAIN. UNLESS NOTED OTHERWISE.

C. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING ALL WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES INCLUDING THOSE PUBLISHED BY OSHA AND EPA.

D. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED PRIOR TO BIDDING. CONTRACTOR SHALL IDENTIFY/VERIFY ALL PLUMBING LINES BEFORE STARTING ANY DEMOLITION WORK.

E. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.

F. ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.

G. PROVIDE ALL WORK REQUIRED FOR THE REMOVAL OF FIXTURES TO BE DEMOLISHED AND INSTALLATION OF NEW FIXTURES AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.

H. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCH'L DOCUMENTS IN ADDITION TO THE DIVISION 22, 23 AND 26 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.

I. COORDINATE DEMOLITION OF DIVISION 22 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.

J. ALL EXISTING EXTERIOR GAS LINES IN THE CAMPUS TO REMAIN. UNLESS NOTED OTHERWISE.

K. ALL EXISTING ROOF DRAINS, GUTTERS AND DOWNSPOUTS TO REMAIN. UNLESS NOTED OTHERWISE.

PLUMBING DEMO KEYED NOTES:

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND PLUMBING EQUIPMENT INCLUDING ALL ASSOCIATED PLUMBING LINES AND APPURTENANCES. REFER TO ARCHITECTURAL PLANS AND PLUMBING PLAN (4/P-100N) FOR NEW WORK.

FIRE PROTECTION NOTES:

A. CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

B. PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

C. PROVIDE AND INSTALL SURFACE MOUNTED FIRE EXTINGUISHERS. TYPE AND QUANTITY AND LOCATIONS SHALL BE PER LOCAL AUTHORITIES.

D. A STATE LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR MUST SUBMIT SHOP DRAWINGS DIRECTLY TO THE CITY FIRE DEPARTMENT FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF THE PROPOSED FIRE SPRINKLER AND ALARM SYSTEM WORK. THESE SHOP DRAWINGS MUST BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO THE CONTRACTOR BEGINNING THE WORK. ALL WORK MUST BE IN COMPLIANCE WITH THE APPLICABLE NFPA STANDARDS AND THE INTERNATIONAL FIRE CODE.

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PLUMBING KEYED NOTES

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2. 3/4" HOT WATER RETURN DROP TO CIRCULATING PUMP WITH TIMER SWITCH AND AQUASTAT; SEE DETAIL 16/P-402N.
3. COLD WATER DROP TO FIXTURE/S; SIZE AS NOTED. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE.
4. HW DROP FOR SERVICE TO LAVS, SIZE AS NOTED. RUN RECIRCULATING LINE WITHIN 2 FEET OF HW ROUGH-INS FOR IECC COMPLIANCE.
5. PROVIDE TMV-1 (ASSE 1070 LISTED) FOR HOT WATER SUPPLY TO LAVATORY. SET AT MAX. 110°F, INSTALL UNDER FIXTURE AS HIGH AS POSSIBLE FOR CLEAN/NEAT APPEARANCE. RE: 14/P-402N.
6. REPLACE EXISTING FLOOR DRAIN IN ITS CURRENT LOCATION. PROVIDE WITH TRAP PRIMER (TP-1) SEWER GAS PROTECTION DEVICE.
7. POINT OF CONNECTION TO EXISTING UTILITY. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES.
8. WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE WALL/CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH WALL/CEILING. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.
9. BALL VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE WALL/CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH WALL/CEILING. PROVIDE MARKING OF VALVE LOCATION ALONG THE CEILING TILE.
10. PROVIDE NEW VTR AT LOCATION OF EXISTING, FIELD VERIFY LOCATION OF EXISTING VTR.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

PLUMBING PLANS - NORTH CAMPUS BLDG. P

P-102N

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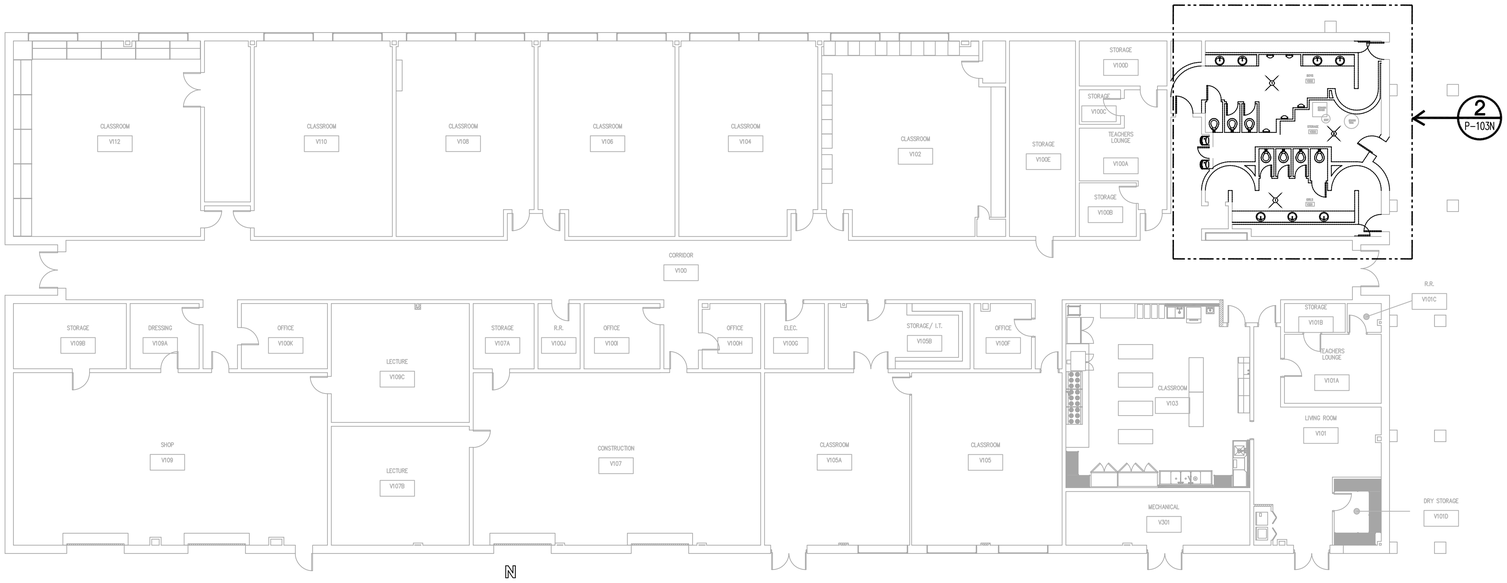

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1 P-103N PLUMBING DEMOLITION PLAN - NORTH CAMPUS BLDG. V
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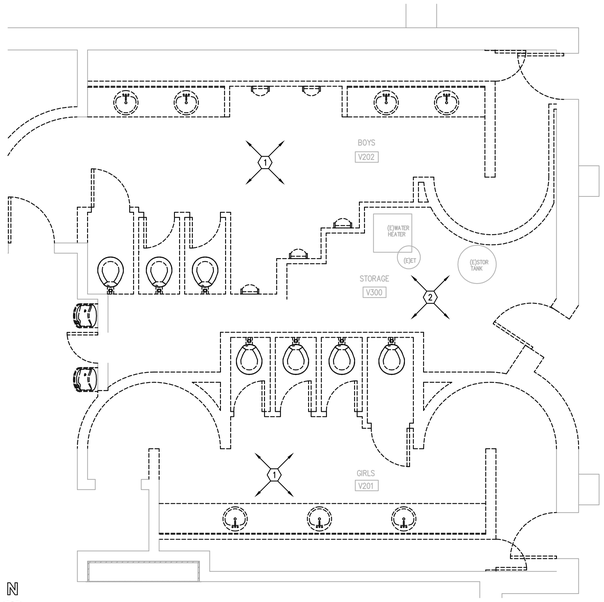

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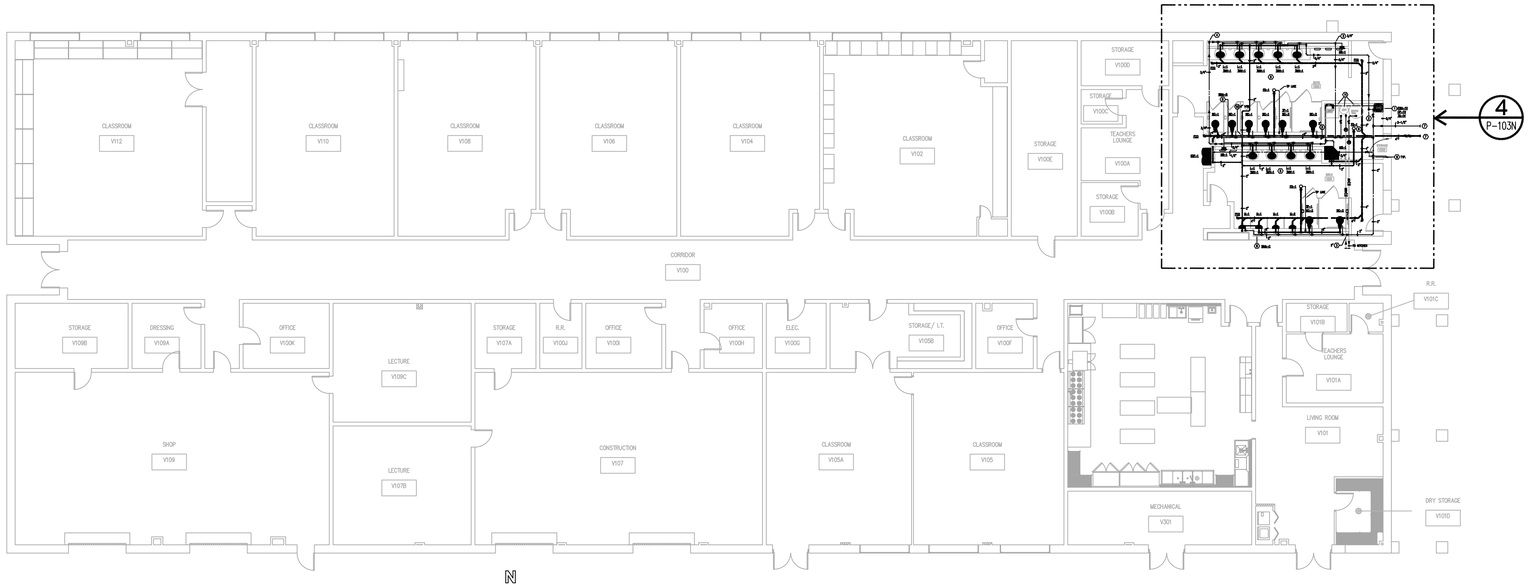
2 P-103N ENLARGED DEMO PLAN - NORTH CAMPUS BLDG. V
1/4"=1'-0"



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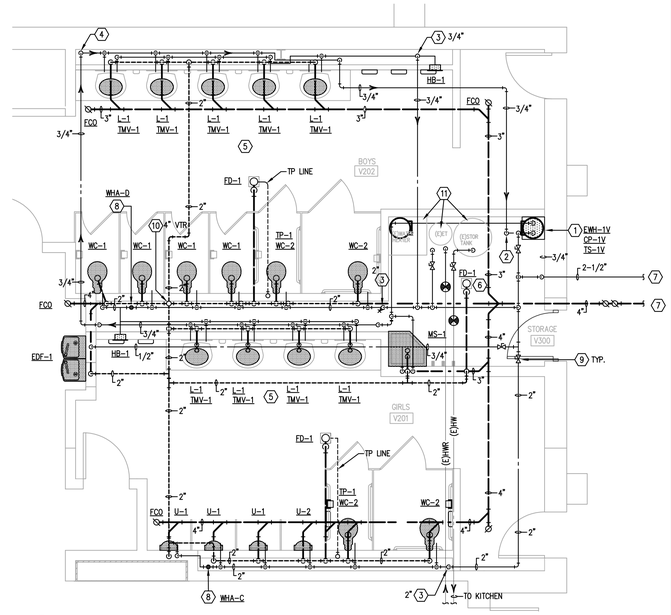
3 P-103N PLUMBING PLAN - NORTH CAMPUS BLDG. V
3/32"=1'-0"



N

4 P-103N ENLARGED PLUMBING PLAN - NORTH CAMPUS BLDG. V
1/4"=1'-0"

PLUMBING DEMO KEYED NOTES:

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND PLUMBING EQUIPMENT INCLUDING ALL ASSOCIATED PLUMBING LINES AND APPURTENANCES. REFER TO ARCHITECTURAL PLANS AND PLUMBING PLAN (4/P-100N) FOR NEW WORK.
2. EXISTING HOT WATER SYSTEM SERVING THE KITCHEN TO REMAIN AND RELOCATED. REFER TO 4/P-103N FOR NEW LAY-OUT.

GENERAL NOTES:

A. NO EXISTING ENGINEERING PLANS WERE PROVIDED FOR THIS BUILDING, PLUMBER TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES. SITE VISIT IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

B. WHERE EXISTING FIXTURE OR EQUIPMENT IS TO BE REMOVED AND REINSTALLED AFTER REPLACEMENT OF PLUMBING LINES, BE CAUTIOUS TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGED OCCURS, THE EQUIPMENT OR FIXTURE SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

FIRE PROTECTION NOTES:

A. CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

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Revisions:

Sheet Title:

PLUMBING PLANS - NORTH CAMPUS BLDG. V

P-103N

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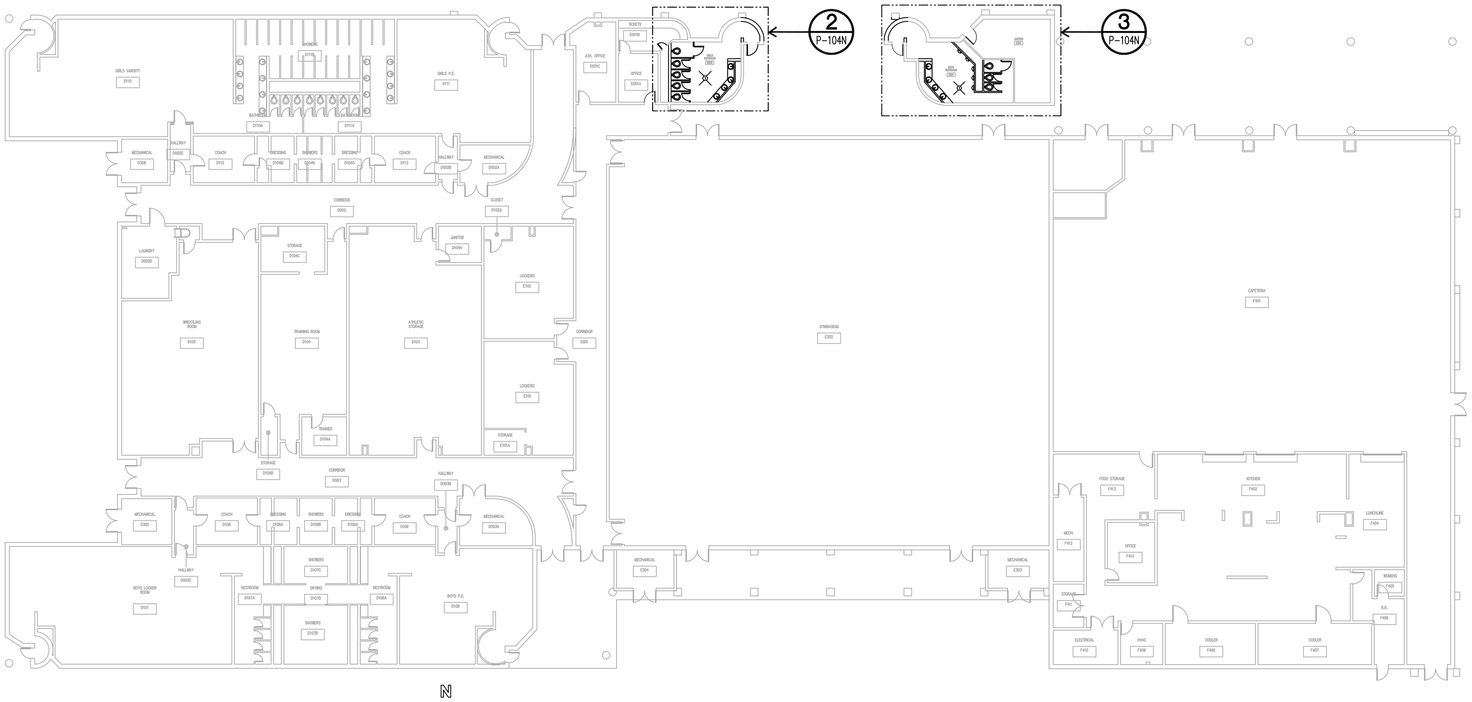

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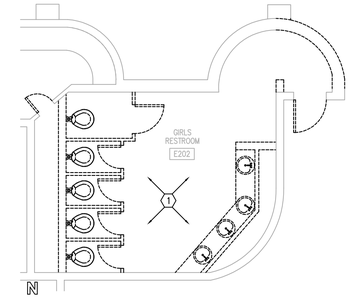
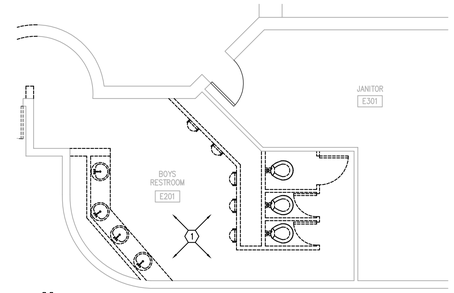


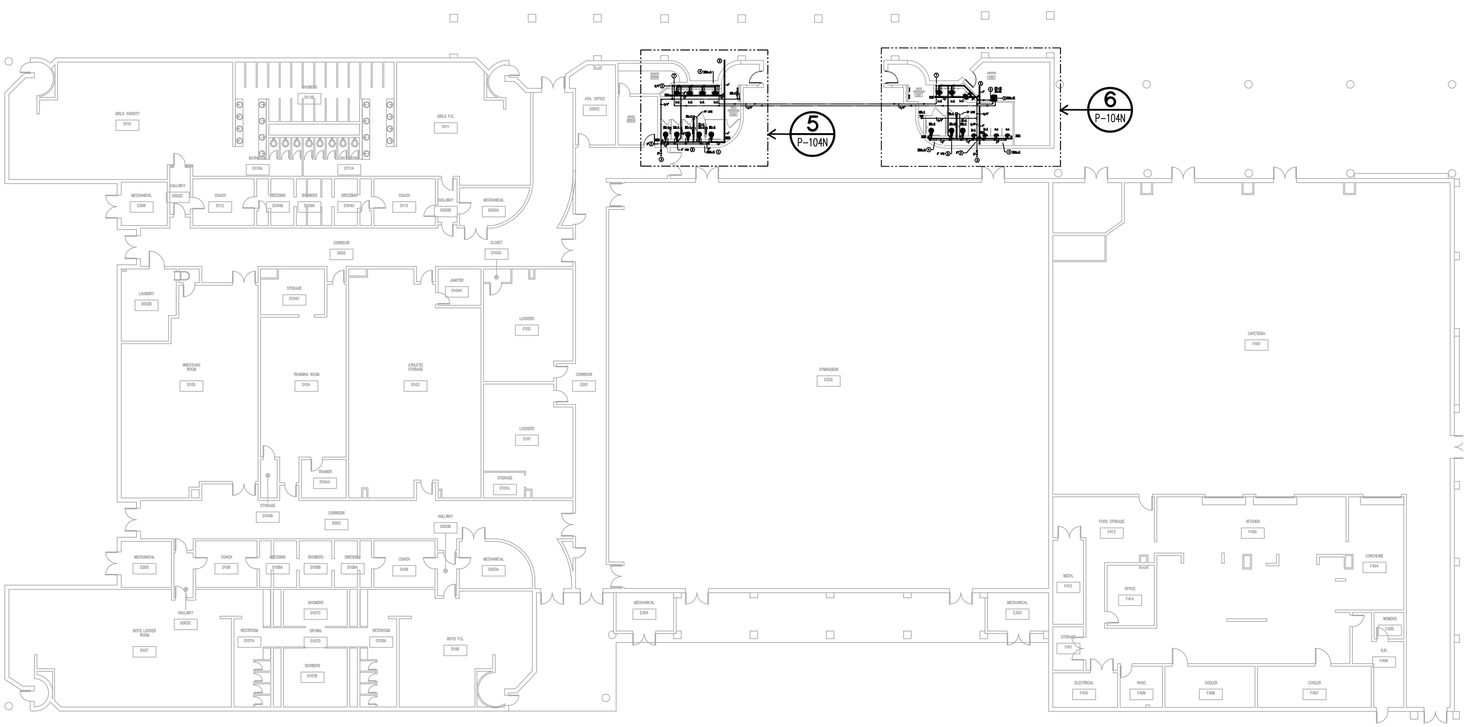
2 P-104N ENLARGED DEMO PLAN

3/16"=1'-0"



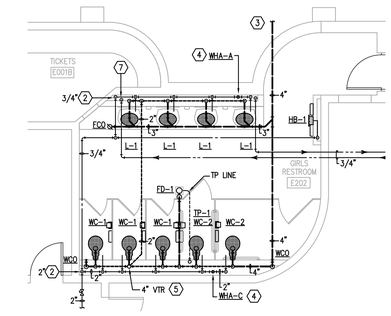
3 P-104N ENLARGED DEMO PLAN

3/16"=1'-0"



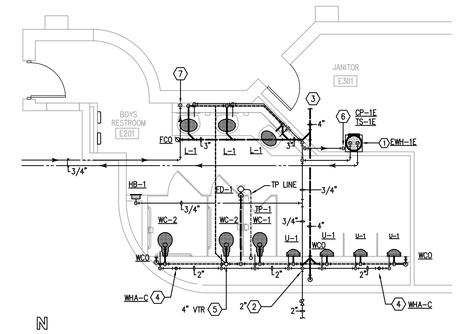
4 P-104N PLUMBING PLAN - NORTH CAMPUS BLDG. E

1/16"=1'-0"



5 P-104N ENLARGED PLUMBING PLAN

3/16"=1'-0"



6 P-104N ENLARGED PLUMBING PLAN

3/16"=1'-0"

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A. CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

B. PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

C. PROVIDE AND INSTALL SURFACE MOUNTED FIRE EXTINGUISHERS. TYPE AND QUANTITY AND LOCATIONS SHALL BE PER LOCAL AUTHORITIES.

D. A STATE LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR MUST SUBMIT SHOP DRAWINGS DIRECTLY TO THE CITY FIRE DEPARTMENT FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF THE PROPOSED FIRE SPRINKLER AND ALARM SYSTEM WORK. THESE SHOP DRAWINGS MUST BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO THE CONTRACTOR BEGINNING THE WORK. ALL WORK MUST BE IN COMPLIANCE WITH THE APPLICABLE NFPA STANDARDS AND THE INTERNATIONAL FIRE CODE.

E. PRIOR TO SHUT-DOWN OF ANY EXISTING FIRE PROTECTION SYSTEM, CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S APPOINTED REPRESENTATIVE 5 DAYS PRIOR TO SERVICE INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING SYSTEM TO FULL OPERATION.

NOTE:

DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES. REFER TO RISER DIAGRAMS FOR M ORE PIPE SIZING INFORMATION AND OTHER REQUIREMENTS.

PLUMBING KEYED NOTES

1. ELECTRIC WATER HEATER WITH HW RECIRCULATING SYSTEM. RE: 16/P-402N.
2. COLD WATER DROP TO FIXTURES; SIZE AS NOTED. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE.
3. CONNECT TO EXISTING UTILITY. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES.
4. WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.
5. PROVIDE NEW VTR AT LOCATION OF EXISTING, FIELD VERIFY LOCATION OF EXISTING VTR.
6. 3/4" HOT WATER RETURN DROP TO CIRCULATING PUMP WITH TIMER SWITCH AND AQUASTAT; SEE DETAIL 16/P-402N.
7. HW DROP FOR SERVICE TO LAVS, SIZE AS NOTED. RUN RECIRCULATING LINE WITHIN 2 FEET OF HW ROUGH-INS FOR IECC COMPLIANCE.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
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Revisions:

Sheet Title:

PLUMBING PLANS - NORTH CAMPUS BLDG. E

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TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

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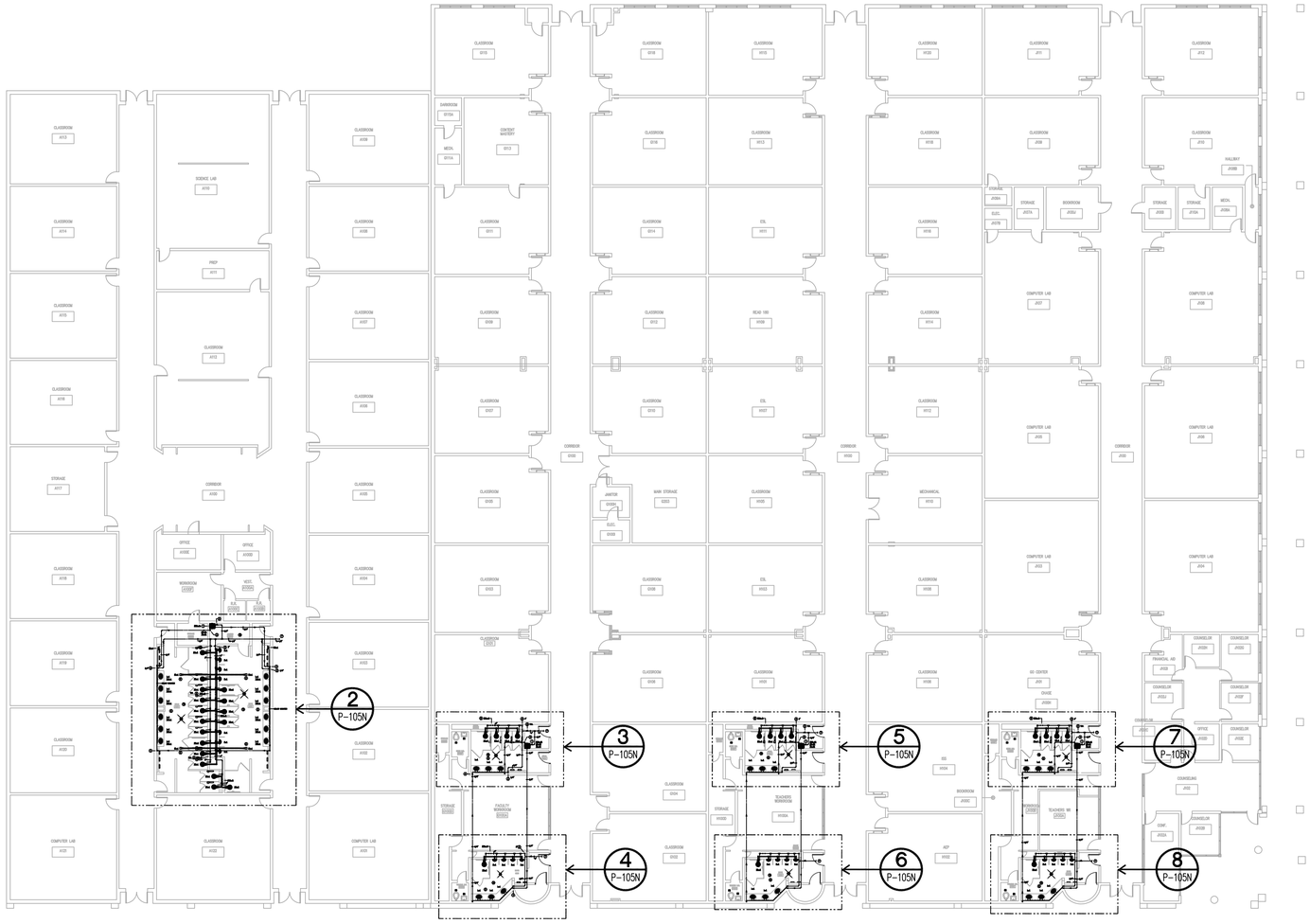

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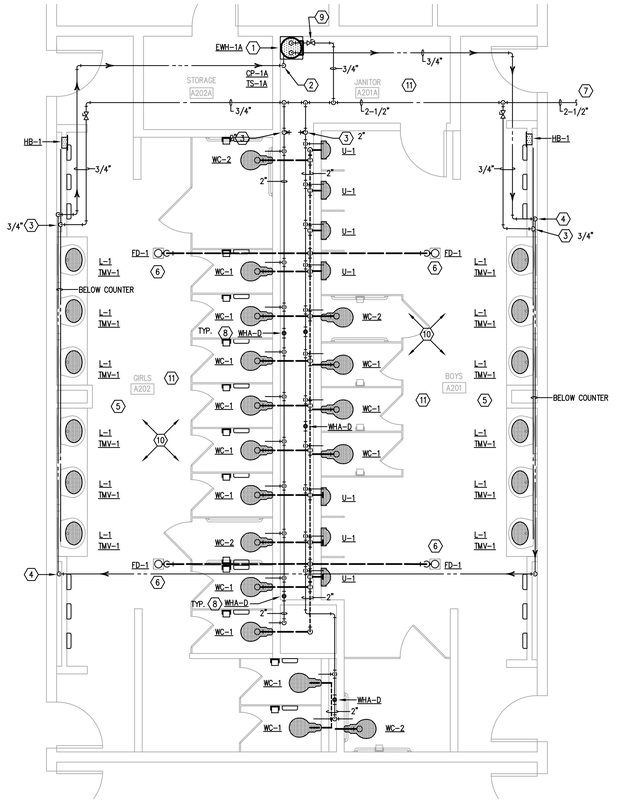
1/16"=1'-0"



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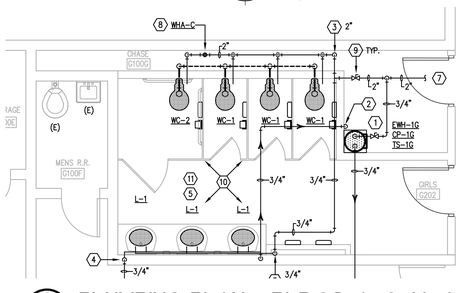
1/4"=1'-0"



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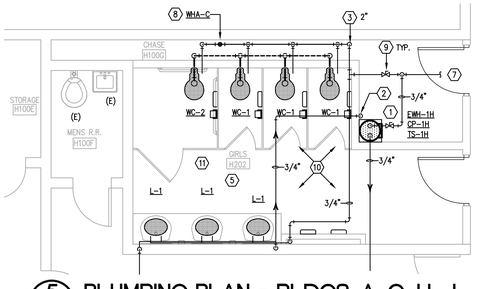
1/4"=1'-0"



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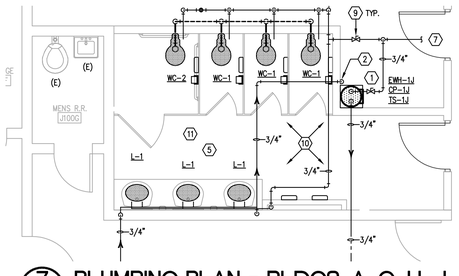

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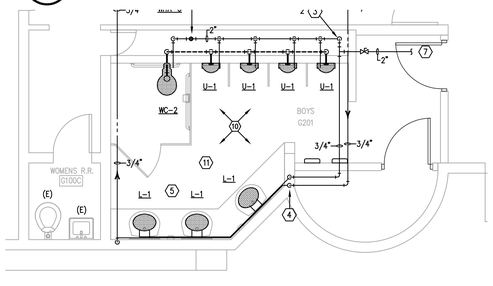
1/4"=1'-0"



4 P-105N PLUMBING PLAN - BLDGS. A, G, H, J
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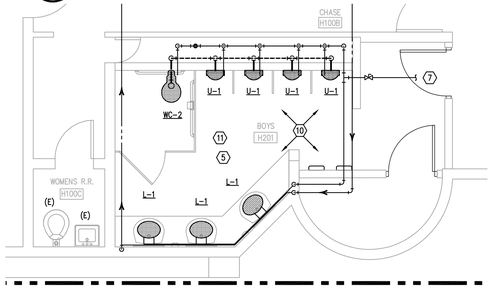
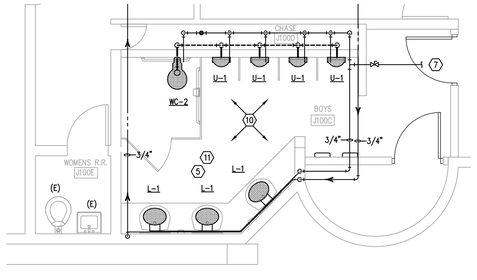


6 P-105N PLUMBING PLAN - BLDGS. A, G, H, J
1/4"=1'-0"



8 P-105N PLUMBING PLAN - BLDGS. A, G, H, J
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PLUMBING KEYED NOTES

1. ELECTRIC WATER HEATER WITH RECIRCULATION SYSTEM. RE: 16/P4.02.
2. 3/4" HOT WATER RETURN DROP TO CIRCULATING PUMP WITH TIMER SWITCH AND AQUASTAT; SEE DETAIL 23/24/P402.
3. COLD WATER DROP TO FIXTURE/S; SIZE AS NOTED. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE.
4. HW DROP FOR SERVICE TO LAVS, SIZE AS NOTED. RUN RECIRCULATING LINE WITHIN 2 FEET OF HW ROUGH-INS FOR 2015 IECC COMPLIANCE.
5. PROVIDE TMV-1 (ASSE 1070 LISTED) FOR HOT WATER SUPPLY TO LAVATORY. SET AT MAX. 110°F, INSTALL UNDER FIXTURE AS HIGH AS POSSIBLE FOR CLEAN/NEAT APPEARANCE. RE: 14/P4.02.
6. PROVIDE THIS FLOOR DRAIN WITH TRAPGUARD SEWER GAS PROTECTION DEVICE.
7. CONNECT TO EXISTING UTILITY. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES.
8. WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.
9. BALL VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING. PROVIDE MARKING OF VALVE LOCATION ALONG THE CEILING TILE.
10. EXISTING VENT LINE AND UNDERGROUND DRAIN LINES TO REMAIN, CONNECT NEW FIXTURES TO EXISTING/ADJUSTED/ NEW DRAIN AND VENT ROUGH-INS.
11. PROVIDE EXISTING FLOOR DRAINS WITH TRAPGUARD.

FIRE PROTECTION NOTES:

A. CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

B. PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
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ACAD File:	A-240-U

Revisions:

Sheet Title:

PLUMBING PLANS - NORTH CAMPUS BLDGS. A, G, H, J

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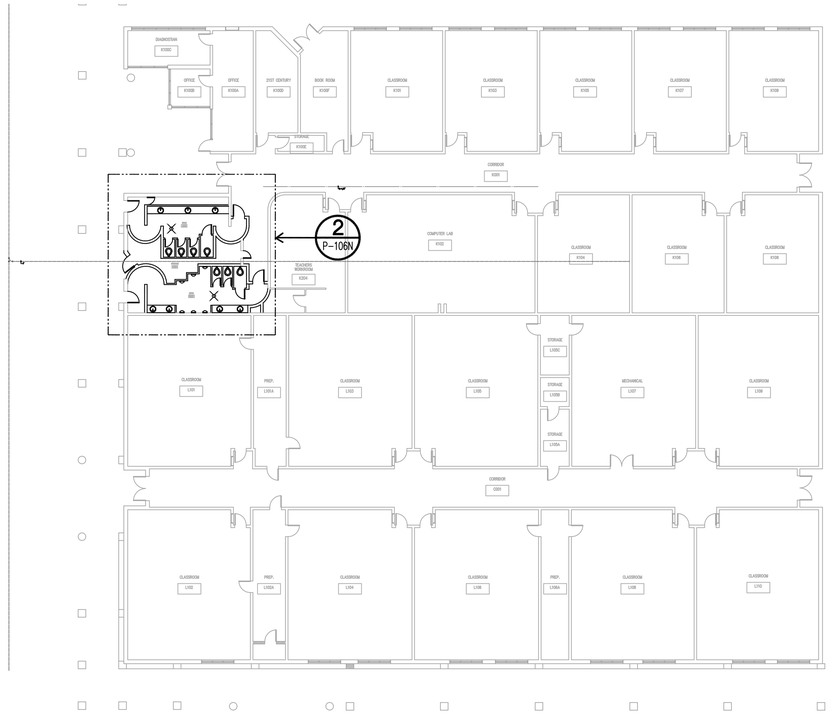

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1 P-106N PLUMBING DEMOLITION PLAN - NORTH CAMPUS BLDG. K
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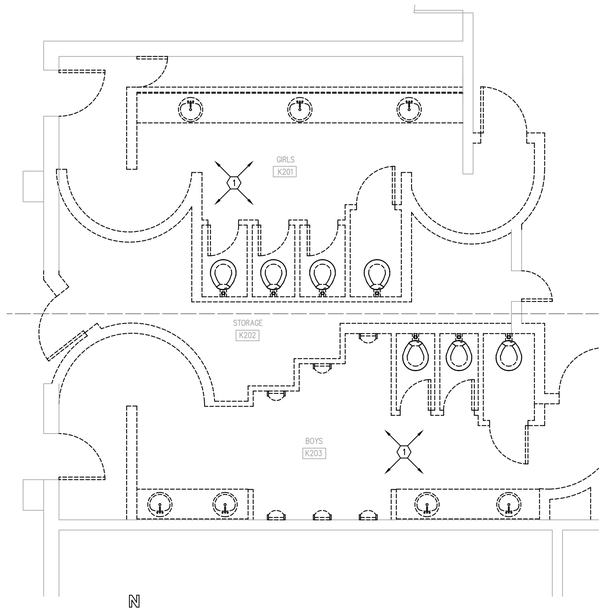

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2 P-106N ENLARGED DEMO PLAN
1/4"=1'-0"

PLUMBING DEMO KEYED NOTES:

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND PLUMBING EQUIPMENT INCLUDING ALL ASSOCIATED PLUMBING LINES AND APPURTENANCES. REFER TO ARCHITECTURAL PLANS AND PLUMBING PLAN (4/P-100N) FOR NEW WORK.

GENERAL NOTES:

A. NO EXISTING ENGINEERING PLANS WERE PROVIDED FOR THIS BUILDING, PLUMBER TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES. SITE VISIT IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

FIRE PROTECTION NOTES:

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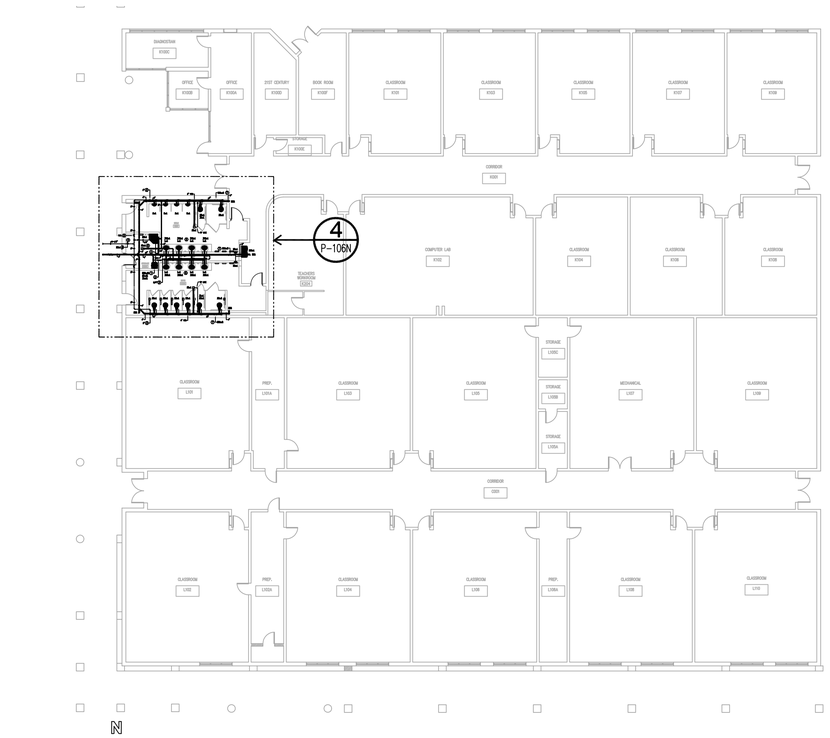

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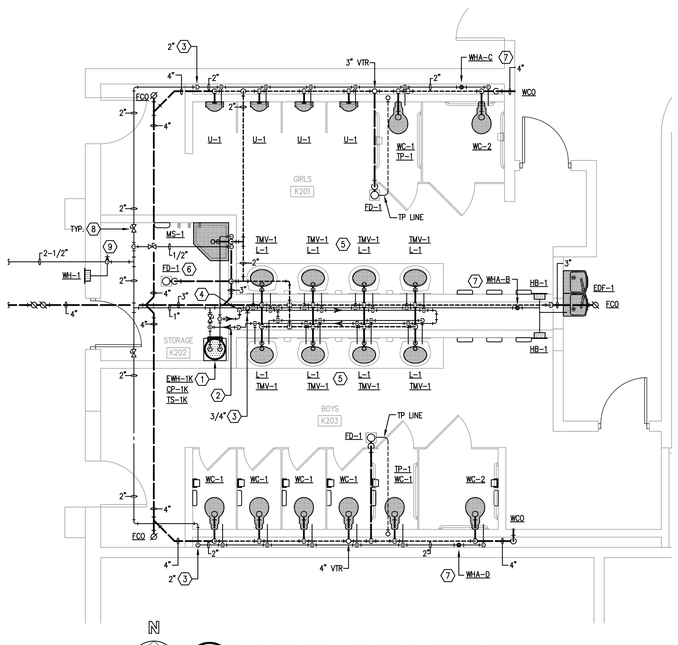
3 P-106N PLUMBING PLAN - NORTH CAMPUS BLDG. K
1/16"=1'-0"



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4 P-106N ENLARGED PLUMBING PLAN
1/4"=1'-0"

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PLUMBING KEYED NOTES

1. WALL HUNG ELECTRIC WATER HEATER WITH RECIRCULATION SYSTEM. RE: 16/P-402N.
2. 3/4" HOT WATER RETURN TO CIRCULATING PUMP WITH TIMER SWITCH AND AQUASTAT; SEE DETAIL 16/P-402N.
3. COLD WATER DROP TO FIXTURE/S; SIZE AS NOTED. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE.
4. HW DROP FOR SERVICE TO LAVS, SIZE AS NOTED. RUN RECIRCULATING LINE WITHIN 2 FEET OF HW ROUGH-INS FOR IECC COMPLIANCE.
5. PROVIDE TMV-1 (ASSE 1070 LISTED) FOR HOT WATER SUPPLY TO LAVATORY. SET AT MAX. 110T; RE: 14/P-402N.
6. PROVIDE THIS FLOOR DRAIN WITH TRAPGUARD SEWER GAS PROTECTION DEVICE.
7. WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.
8. BALL VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING. PROVIDE MARKING OF VALVE LOCATION ALONG THE CEILING TILE.
9. DOMESTIC WATER ENTRY, WITH ISOLATION VALVE ON RISER.

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P-106N

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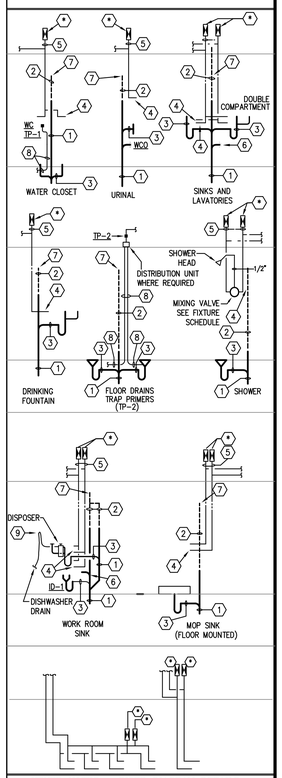
PLUMBING RISER DETAILS



KEYED NOTES - RISER DIAGRAM DETAILS:

(SEE PLUMBING FIXTURE SCHEDULE ON SHEET P3.01)

1. REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
5. SHOCK ARRESTOR INLET; REFER TO SHOCK ARRESTOR SCHEDULE FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR BATTERY LOCATIONS. ARRANGE ALL WATER LINES TO GRAVITY DRAIN.
6. WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
7. SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT MINIMUM 42" ABOVE FINISHED FLOOR.
8. TRAP PRIMER LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.
9. AIR GAP FITTING; PROVIDE WHERE REQUIRED BY CODE.

WATER HAMMER ARRESTOR SCHEDULE

P.D.I. SYMBOL	FIXTURE UNITS	SIZE
A	1-11	1/2" NPT
B	12-32	3/4" NPT
C	33-60	1" NPT
D	61-113	1 1/4" NPT
E	114-154	1 1/2" NPT
F	155-330	2" NPT

PIPING RISER DIAGRAMS/TYPICAL RISER DETAILS ILLUSTRATE WATER HAMMER ARRESTORS FOR FIXTURE WATER PIPE OPENINGS. ALL ARRESTORS SHALL BE SIZED AS INDICATED ON DRAWINGS OR IN ACCORDANCE WITH THIS SCHEDULE, WHICHEVER PLACES THE MOST STRINGENT REQUIREMENT.

PROVIDE ARRESTORS IN ACCORDANCE WITH THE REQUIREMENTS OF PLUMBING DRAINAGE INSTITUTE (PDI) STANDARD PDI-WH-201. THE USE OF AIR CHAMBERS SHALL NOT BE ACCEPTABLE.

GENERAL NOTES - PLUMBING FIXTURES

1. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ROUGH-IN WORK.
2. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES PROVIDED UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
4. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
5. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WHERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE STAINLESS STEEL FLEXIBLE CONNECTORS.
6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE C.P. ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE McGUIRE No. 8872C, 1-1/4" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES PROVIDE McGUIRE No. 8912C, 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES.
7. PROVIDE DEEP SEAL P-TRAP FOR ALL DRAINS OF INFREQUENT USE OR REQUIRING TRAP PRIMER.
8. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
9. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
10. ALL HANDICAPPED ACCESSIBLE FIXTURES INDICATED WITH ♿ SHALL BE PROVIDED OF APPROVED TYPES AND WITH REQUIRED CONTROLS AND INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY AMERICANS WITH DISABILITIES ACT (ADA). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
11. ALL WHEELCHAIR LAVATORY AND SINK PIPING WHERE EXPOSED SHALL BE INSULATED. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES. REFER TO SPECIFICATIONS SECTION 15440.
12. ALL SINKS FOR HANDICAPPED USE SHALL BE STAMPED WITH DRAIN OUTLET AT REAR OF BOWL.
13. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 2.2 GPM FLOW CONTROL.
14. ORIENT ADA WATER CLOSET FLUSH VALVE WITH OPERATOR ON WIDE SIDE OF ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE SLOPED UNIFORMLY ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.

PLUMBING GENERAL PLAN NOTES:

(A) DRAINAGE PIPING INVERT ELEVATIONS NOTED ON FLOOR PLANS AS: INV. EL.= 0.00' BFF ARE BELOW FINISHED FLOOR TAKEN FROM FIRST FLOOR FINISHED ELEVATION OF 0.00' TO INSIDE BOTTOM OF PIPE.

(B) PLUMBER SHALL FIELD VERIFY EXACT BUILDING FINISHED FLOOR ELEVATION AND THE INVERT ELEVATION OF ALL DRAIN LINES AT PROPOSED CONNECTING POINTS WITH SITE CIVIL UTILITIES PRIOR TO INSTALLATION OF BUILDING PIPING.

(C) ALL PIPE PASSING THROUGH FIRE RATED WALLS OR FLOOR SLABS SHALL BE SUPPORTED AT PENETRATION AND OPENINGS SHALL BE SEALED WITH APPROVED, NON-HARDENING, FIRE STOP MATERIALS AS SPECIFIED OR REQUIRED.

(D) CONTRACTOR SHALL COORDINATE WITH THE STRUCTURAL CONDITIONS AT THE SITE AND PROVIDE PROPER ROUGH-IN CONNECTIONS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS ARE NECESSARY, CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.

(E) THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. CORRECTIONS OR RELOCATIONS DUE TO MISALIGNED PIPE SHALL BE PERFORMED IN A TIMELY MANNER AT NO ADDITIONAL COST TO OWNER.

(F) DO NOT SCALE THE PLUMBING DRAWINGS FOR ROUGH-IN WORK. CONTRACTOR SHALL REFER TO THE DIMENSIONED ARCHITECTURAL AND STRUCTURAL DRAWINGS TO FIELD DETERMINE EXACT LOCATIONS OF PLUMBING ROUGH-IN WORK.

(G) SANITARY DRAINAGE PIPING 2" AND SMALLER SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/4 INCH PER FOOT OF RUN. DRAINAGE PIPING OF 3" SIZE AND LARGER SHALL SLOPE MINIMUM 1/8 INCH PER FOOT OF RUN. SLOPE ALL VENT PIPING MINIMUM 6" PER 100 FEET OF RUN BACK TO DRAIN.

(H) STORM DRAINAGE PIPING SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/8 INCH PER FOOT OF RUN. SLOPES OF 1/4 INCH PER FOOT ARE PERMITTED WHERE NOTED ON PLAN OR AS REQUIRED.

(I) PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL STORM DRAINAGE PIPING ABOVE GROUND. PROVIDE RESTRAINTS FOR ALL DRAINAGE PIPING AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER PERMANENT METHODS AS PRESCRIBED BY PIPE AND COUPLING MANUFACTURER SHALL BE ACCEPTABLE.

(J) PROVIDE AND INSTALL CLEANOUTS AT EACH CHANGE OF DIRECTION OF THE BUILDING SANITARY DRAIN, AT MINIMUM 75' INTERVALS ALONG STRAIGHT RUNS OF MAIN DRAIN AND BRANCHES, AT EACH HORIZONTAL CHANGE OF DIRECTION IN SOIL OR WASTE PIPES GREATER THAN 45 DEGREES, AT END OF INDIVIDUAL BRANCH DRAINS LONGER THAN 5'. PROVIDE CLEANOUTS IN ACCORD WITH INTERNATIONAL PLUMBING CODE SECTION 708.

(K) PROVIDE FITTINGS FOR SANITARY DRAIN WASTE AND VENT PIPING SYSTEMS IN COMPLIANCE WITH INTERNATIONAL PLUMBING CODE SECTION 708.

(L) INSTALL EACH WATER HEATER AND ALL PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVALS/REPLACEMENTS.

(M) PROVIDE ISOLATION VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE APPROVED PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT. PROVIDE STAINLESS STEEL ACCESS DOORS FOR SHOWER, LOCKER AND LOCKER TOILET ROOM PANELS. PROVIDE MARKINGS ON CEILING TILES ON LOCATIONS OF ISOLATION VALVES.

(N) THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS OF ALL SANITARY VENTS UP THROUGH ROOF TO MAINTAIN MINIMUM 15' CLEARANCE TO ANY BUILDING OUTDOOR AIR INLET.

PLUMBING PIPE MATERIALS SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
SANITARY DRAINS AND VENTS INSIDE BUILDING AND BELOW GROUND	SCHEDULE 40 PVC DWV
GREASE WASTE DRAINS AND VENTS INSIDE BUILDING AND BELOW GROUND	CAST IRON HUB AND SPIGOT
GREASE WASTE DRAINS AND VENTS INSIDE BUILDING AND ABOVE GROUND	CAST IRON NO-HUB DWV
SANITARY DRAINS AND VENTS INSIDE BUILDING AND ABOVE GROUND	CAST IRON NO-HUB DWV
SANITARY DRAINS AND VENTS INSIDE BUILDING AT PLENUM CEILING	CAST IRON NO-HUB DWV
DOMESTIC HOT & COLD WATER INSIDE BUILDING AND ABOVE GROUND	COPPER, TYPE "L" HARD DRAWN
DOMESTIC HOT & COLD WATER INSIDE BUILDING AND BELOW GROUND	COPPER, TYPE "K" SOFT ANNEALED
DOMESTIC WATER AT ENTRY	COPPER, TYPE "K" HARD DRAWN
FIRE SPRINKLER BELOW GROUND	DUCTILE IRON
FIRE SPRINKLER ABOVE GROUND - 2" AND SMALLER	BLACK STEEL SCHEDULE 40
FIRE SPRINKLER ABOVE GROUND - 2-1/2" AND LARGER	BLACK STEEL SCHEDULE 10
COMPRESSED AIR	TYPE 'L' COPPER
NOTE: REFER TO SPECIFICATIONS FOR COMPLETE PIPING MATERIAL REQUIREMENTS FOR ASSOCIATED PIPING SYSTEMS.	

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WST &	VENT	DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1"	----	AMERICAN STANDARD No.3451.128 "MADERA" WHITE V.C. ELONGATED SIPHON JET FLOOR MTD. (1.28 GPF) BOWL WITH TOP SPUD, BOLT CAPS, BEMIS 1955 SSCT WHITE OPEN FRONT SEAT, LESS COVER AND SLOAN ROYAL 111-1.28 HET FV.
WATER CLOSET WC-2 ADA ♿	4"	2"	4"	1"	----	AMERICAN STANDARD No.3461.128 "MADERA" WHITE V.C. ELONGATED SIPHON JET FLOOR MTD. (1.28 GPF) BOWL WITH TOP SPUD, BOLT CAPS, BEMIS 1955 SSCT WHITE OPEN FRONT SEAT, LESS COVER AND SLOAN ROYAL 111-1.28 HET FV.
URINAL U-1 U-2 ADA ♿	2"	2"	2"	3/4"	----	AMERICAN STANDARD No.6590.125 "WASHBROOK" WHITE V.C. UHE 0.125 GPF, WITH 3/4" TOP SPUD AND WALL HANGERS. WITH SLOAN ROYAL No.MODEL 186-0.13 FLUSH VALVE AND WADE OR EQUAL FLOOR MOUNTED CARRIER WITH MOUNTING RE: ARCH'L PLANS FOR MOUNTING HEIGHT.
LAVATORY-COUNTER TOP L-1 ♿	2"	1-1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD NO.0476.028 WHITE VC 20 X 17 OVAL SELF RIMMING FIXTURE WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS FOR CHICAGO 802-VE2805-665ABCP METERING FAUCET & FIXED GRID DRAIN, CHROME PLATED BRASS P-TRAP, STOPS AND SUPPLIES. PROVIDE TMV-1 WHERE INDICATED.
ELECTRIC DRINKING FOUNTAIN EDF-1 (BI-LEVEL) ♿	2"	1-1/4"	1-1/4"	1/2"	---	ELKAY No. VRCGRNTLBC BI-LEVEL BARRIER-FREE, LEAD FREE WALL MOUNTED COOLER, 8.8 GPH CAPACITY COOLED TO 50° F WITH 80° F AMBIENT TEMP. 1/6 HP 4.0 FLA 115V, 1 AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS. PROVIDE ZURN OR EQUAL FLOOR MOUNTED PLATE TYPE CARRIER AND TRAP AND SUPPLY. PROVIDE WITH ALL STAINLESS STEEL CABINET AND CANE APRON FOR PROJECTING UNITS, REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHT.
MOP SINK MS-1	3"	2"	3"	3/4"	3/4"	FIAT TSB 100 24 X 24 X 12 WITH STAINLESS STEEL CAP AND CAULK OUTLET DRAIN WITH N.B. STRAINER. PROVIDE CHICAGO No.897-RCF WALL MOUNT FAUCET WITH INTEGRAL STOPS, WALL BRACE AND VACUUM BREAKER. PROVIDE T-35 HOSE AND WALL BRACKET AND T-40 STAINLESS STEEL MOP HANGER.
WALL HYDRANT WH-1	----	----	----	3/4"	----	WADE 8600WT RECESSED NON-FREEZE BRONZE WALL BOX, ANTI-SIPHON HYDRANT, WITH LOOSE KEY OPERATOR AND POLISHED NICKEL BRONZE LOCKING COVER. INSTALL WITH FACE FLUSH AND SQUARE TO FINISHED WALL.
HOSE BIBB HB-1 (TOILET ROOMS)	----	----	----	3/4"	----	WADE 8600WT RECESSED STAINLESS STEEL WALL BOX WITH COLD WATER WHEEL HANDLE VALVE, INTEGRAL STOP, VB AND HINGED LOCKING COVER STAMPED 'WATER' INSTALL FLUSH AND RIGID TO FINISHED WALL AND SEAL WATERTIGHT.
WALL BOX WB-1	----	----	----	1/2"	----	GUY GRAY NO. BIM-875 WITH 1/2 X 1/4 O.D. TUBE, CHROME PLATED FIXTURE SUPPLY STOP. INSTALL BOX 54" AFF BEHIND FREE STANDING REFRIGERATOR WITH ICE MAKER.
TRAP PRIMER TP-1	----	----	1/2"	----	----	PROVIDE SLOAN No. VBF-72-A1 FLUSH VALVE VACUUM BREAKER TRAP REFILL SUPPLY. ALL EXPOSED PIPES TO BE CHROME PLATED AND RUN SHORT AS POSSIBLE TO WALL. CONCEALED DRAIN TUBING SHALL BE 1/2" TYPE 'K' SOFT COPPER SLOPING UNIFORMLY TO DRAIN WRAPPED IN CONTINUOUS PLASTIC SLEEVE.
FLOOR DRAIN FD-1	3"	2"	----	----	----	ZURN No.ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE "B" STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. (PLUGGED WHERE NOT REQUIRED)
FLOOR DRAIN FD-2	3"	2"	----	----	----	ZURN Z4151 WITH TYPE "1" CAST IRON DRAIN WITH 7" DIA. DEEP FLANGE GRATE, W/ ACID RESISTANT EPOXY COATED INTERIOR, RECESSED HINGED GRATE. PROVIDE TRAP GUARD.
WALL CLEAN-OUT WCO	----	----	----	----	----	ZURN No. ZN-1443 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEAN-OUT FCO	----	----	----	----	----	ZURN No. ZN-1400 DURO-COATED CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND SUITED FOR THE INSTALLATION REQUIRED. VERIFY TOP FINISHES WITH ARCHITECT.
YARD CLEAN-OUT YCO	----	----	----	----	----	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND SUITED FOR THE INSTALLATION REQUIRED. VERIFY TOP FINISHES WITH ARCHITECT.
ELECTRIC WATER HEATER EWH-1S,1N,1P,1V,1E 1A,1G,1H,1J,1K	----	----	----	SEE PLAN		RHEEM EGSP15, 15 GALLON STORAGE WITH 2 KW ELEMENTS WIRED FOR 208 V, 1 PH. POWER: VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. UNIT SHALL HAVE CAPACITY OF 14 GPH RECOVERY AT 60°F. TEMPERATURE RISE PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE AND THERMOMETER IN HW OUTLET PIPING. W/AMTROL ST-5-C XPN TANK.
CIRCULATING PUMP CP-1S,1N,1P,1V,1E 1A,1G,1H,1J,1K					3/4"	GRUNDFOS MODEL UP15-42SF ALL BRONZE, FLANGED PUMP. 1/25 HP WIRED FOR 120/60/1 POWER AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER AND SHUT-OFF TIMER TS-1.
TIME SWITCH TS-1 (ALL TS)	----	----	----	----	----	TORK ELECTROMECHANICAL 24 HOUR TIME SWITCH POWERED BY A SELF STARTING SYNCHRONOUS MOTOR. INSTALL ON WALL ADJACENT TO CIRCULATING PUMPS. COORDINATE WITH ELECTRICAL AND PROVIDE FOR 120/1/60 POWER REQUIREMENT.
THERMOSTATIC MIXING VALVE TMV-1				1/2"	1/2"	POWERS No. LFx480 ADJUSTABLE POINT-OF-USE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE TO MAXIMUM 105° F AT FAUCET OUTLET. SUPPLY CW TO MIXING VALVE FROM CW RISER TO FAUCET. INSTALL BELOW FIXTURE AND HIGH AS POSSIBLE TO PROVIDE NEAT AND CLEAN APPEARANCE.

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

PLUMBING SCHEDULES

DBR
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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

P-401N

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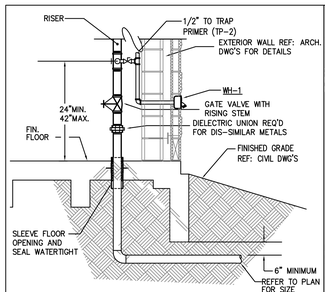

1 DOMESTIC WATER ENTRY DETAIL
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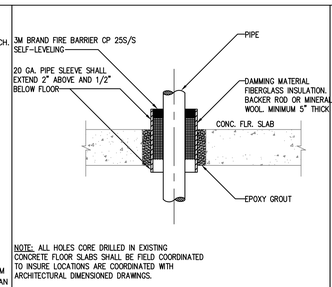

2 PIPE PENETRATION THRU FLOOR
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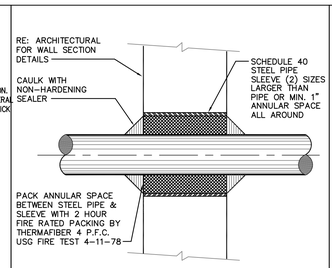

3 FIRE WALL PENETRATION
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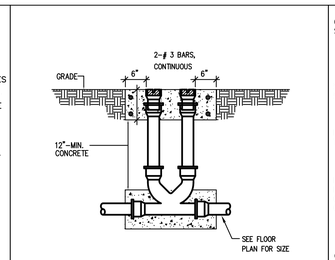

4 TWO-WAY YARD CLEAN-OUT
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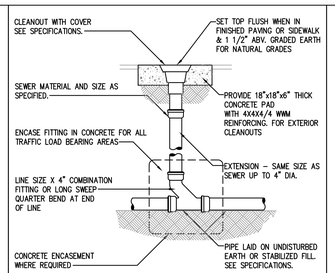

5 CLEAN-OUT DETAIL (FCO, YCO)
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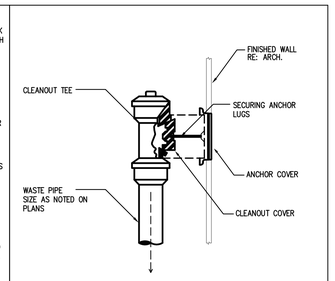

6 WALL CLEAN-OUT DETAIL (WCO)
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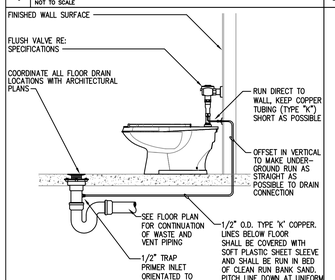

7 TRAP PRIMER DETAIL (TP-1)
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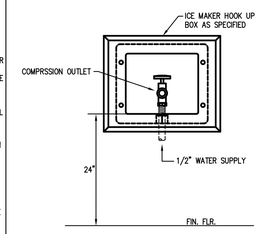

8 ICE MAKER SUPPLY BOX DETAIL (WB-1)
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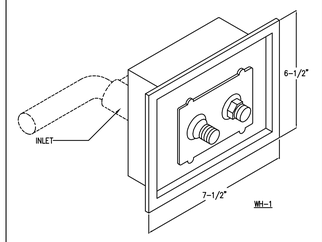
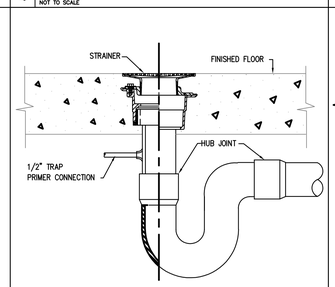


NOTE: WALL HYDRANTS SHOWN WITHOUT LOCKING DOOR FOR CLARITY. UNIT FURNISHED WITH VACUUM BREAKER AND LOCKING T-KEY HANDLE.

9 WALL HYDRANT
NOT TO SCALE



10 FLOOR DRAIN DETAIL (FD-1)
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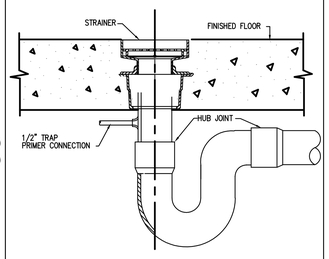

11 FLOOR DRAIN DETAIL (FD-2)
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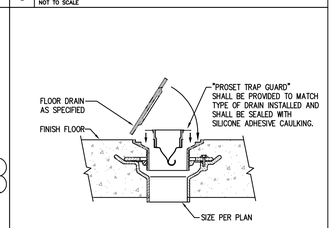
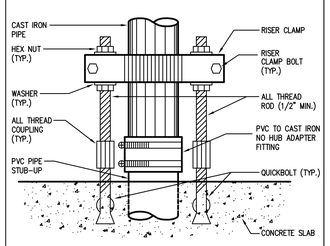


NOTE:
INSTALL PER MANUFACTURE RECOMMENDATION FOR WATERTIGHT SEAL.

12 TRAPGUARD DETAIL
NOT TO SCALE



13 PVC TO CAST IRON SUPPORT
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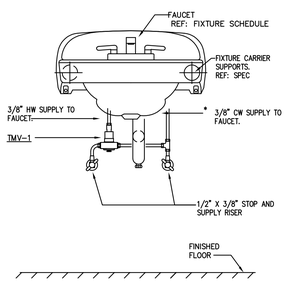
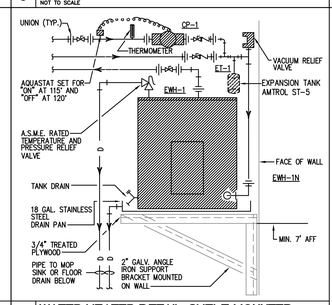


14 TMV-1 DETAIL
NOT TO SCALE



15 WATER HEATER DETAIL-SHELF MOUNTED
NOT TO SCALE

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GENERAL STRUCTURAL NOTES

THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS OR DETAILS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL COORDINATE ALL STRUCTURAL PLANS AND DETAILS WITH ARCHITECTURAL & MECHANICAL DRAWINGS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS AND METHODS OF CONSTRUCTION OR SITE SAFETY. DESIGN, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE CONTROLLING PROVISIONS OF THE 2012 EDITION OF THE **INTERNATIONAL BUILDING CODE (IBC).**

DESIGN CRITERIA

1. BASIS FOR DESIGN AND CODE COMPLIANCE

   A. GOVERNING BUILDING CODE...IBC 2012 EDITION

CONSTRUCTION NOTES ON THE REPAIR WORKS ON EXISTING STRUCTURE

1. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING. SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS. ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. WELDING TO AND WITHIN AN EXISTING FACILITY PRESENTS POTENTIAL HAZARDS INCLUDING:

   A. FIRE HAZARD – DUE TO THE EXISTING CONSTRUCTION AND BUILDING CONTENTS.

   B. STRUCTURAL LIQUEFACTION – DUE TO WELDING ACROSS THE FULL SECTION OF STRUCTURAL STEEL MEMBERS.

   RECOMMENDATIONS TO PREVENT THESE HAZARDS INCLUDE.

   A. FIRE HAZARD – PROTECT EXISTING COMBUSTIBLES PRIOR TO WELDING. KEEP A SEPARATE WATCHMAN AND SEVERAL FIRE EXTINGUISHERS ON HAND.

   B. STRUCTURAL LIQUEFACTION – WELD IN SMALL INCREMENTS. ALLOW WELDS TO HARDEN BEFORE CONTINUING TO THE NEXT INCREMENT.

   C. DO NOT LEAVE THE SITE UNTIL SATISFIED THAT NO FIRE HAZARD EXISTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING NECESSARY TO SAFEGUARD THE EXISTING STRUCTURE.

EXISTING CONDITIONS

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN ALL FIELD MEASUREMENTS AS NECESSARY TO COORDINATE NEW CONSTRUCTION TO EXISTING CONDITIONS.
2. IF EXISTING CONDITIONS DIFFER FROM THE DRAWINGS, INFORM THE ENGINEER AND ADDITIONAL DETAILS OR INTERPRETATION WILL BE PROVIDED. DO NOT PROCEED WITHOUT VERIFICATION.
3. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS.

DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND SURROUNDING BUILDINGS DURING CONSTRUCTION.
2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATERTIGHTNESS OF THE BUILDING DURING DEMOLITION AND RECONSTRUCTION.
3. GENERAL CONTRACTOR SHALL COORDINATE WITH ENGINEER ITEMS THAT ARE UNCLEAR PRIOR TO ANY DEMOLITION.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE PROJECT SITE TO DETERMINE DEMOLITION REQUIREMENTS AT THIS PROJECT. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL THE DEMOLITION REQUIREMENTS TO COMPLETE THIS PROJECT.
5. GENERAL CONTRACTOR SHALL LOCATE AND LABEL ALL UTILITIES BEFORE COMMENCEMENT OF DEMOLITION & CONSTRUCTION ACTIVITIES. UTILITIES SHALL BE CLEARLY MARKED SO THAT ANY SUBCONTRACTOR VISITING THIS SITE CAN EASILY IDENTIFY UTILITIES. ANY COSTS TO REPAIR DAMAGES IF UTILITIES ARE NOT PROPERLY IDENTIFIED, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING DEBRIS & MATERIAL AWAY FROM SITE ACCORDING TO GOVERNING LOCAL, STATE OR FEDERAL REGULATIONS.
7. ANY AREA DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

PENETRATIONS

1. PENETRATIONS THROUGH EXISTING ELEMENTS SHALL COMPLY WITH THE DRAWINGS AND SPECIFICATIONS.
2. DO NOT CUT JOISTS, BEAMS OR COLUMNS WITHOUT PRIOR APPROVAL.
3. PENETRATIONS THROUGH LOAD-BEARING ELEMENTS SHALL BE TEMPORARILY SHORED TO PREVENT COLLAPSE, AS SPECIFIED BELOW.

TEMPORARY BRACING, FALSEWORK AND FORMWORK

1. CONTRACTOR SHALL PROVIDE ENGINEERED SHORING PLAN PRIOR TO START OF ROOF COLUMN DEMOLITION. SHORING PLAN SHALL BE SIGNED AND SEALED BY A STATE OF TEXAS PROFESSIONAL ENGINEER.
2. THE DESIGN, ENGINEERING, FABRICATION, CONSTRUCTION, ERECTION, REMOVAL AND OVERALL SAFETY OF ALL TEMPORARY SUPPORTS SUCH AS FALSEWORK, FORMWORK, SHORES AND BRACING REQUIRED FOR THE EXECUTION OF THE CONTRACT ARE NOT INCLUDED IN THE DRAWINGS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE ENGINEER'S EFFORTS ARE AIMED AT DESIGNING A PROJECT WHICH WILL BE SAFE AFTER FULL COMPLETION. THE ENGINEER HAS NO EXPERIENCE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. SAFETY IS EXCLUSIVELY THE CONTRACTOR'S RESPONSIBILITY. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO SHORING, CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, MUST NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY ENGINEER OF ANY RESPONSIBILITY FOR THESE SAFETY PROCEDURES.

SAFETY

1. PERFORM ALL WORK IN A SAFE AND CONSCIENTIOUS MANNER TO PREVENT INJURIES.
2. CONTRACTOR SHALL MAINTAIN OSHA STANDARDS FOR JOB SAFETY AND WORKER PROTECTION, INCLUDING, BUT NOT LIMITED TO ADEQUATE PROTECTION, BARRICADES, SIGNS, ETC.
3. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY. THE ENGINEER EXPRESSLY EXCLUDES ANY RESPONSIBILITY FOR CONTRACTOR SAFETY OR SAFETY OF JOBSITE.

HAZARDOUS MATERIALS ABATEMENT/ MANAGEMENT

1. THE ENGINEER HAS NO RESPONSIBILITY OR LIABILITY FOR DESIGN, REMOVAL OF, OR TESTING FOR ASBESTOS/LEAD, OR FOR ABATEMENT /MANAGERIAL TREATMENTS, MONITORING, AND LEGAL DISPOSAL OF MATERIALS. CONTRACTOR SHALL DETERMINE IF ANY HAZARDOUS MATERIAL ABATEMENT/ MANAGEMENT IS REQUIRED AND SHALL INCLUDE COSTS THEREOF IN THE BID.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE SPECIFICATION, A.C.I. #301 AND BUILDING CODE REQUIREMENTS, A.C.I. #318, LATEST EDITION.
2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
4. A MAXIMUM OF 25% FLYASH MAY BE USED AS A CEMENT SUBSTITUTE AND SHALL CONFORM TO ASTM C618, CLASS C. THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.6 AND SLUMPS SHALL BE 5 INCHES (±1 INCH). AGGREGATE SHALL BE WELL-GRADED, 1" MAXIMUM FOR THE SLAB ON GRADE. COARSE AGGREGATE SHALL MEET ASTM C33, GRADATION #57. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO FURNISH MIX DESIGNS FOR ALL CLASSES OF CONCRETE. A SAMPLE OF FOUR CYLINDERS SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 YD3 OF CONCRETE. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO AT 28 DAYS. THE FOURTH CYLINDER MAY BE DISPOSED OF AFTER 45 DAYS IF NOT USED. DO NOT USE AIR ENTRAINED CONCRETE FOR STEEL TROWELED FINISHED CONCRETE.
5. ADMIXTURES CONTAINING WATER SOLUBLE CHLORIDE IONS GREATER THAN 0.06% BY WEIGHT OF CEMENT SHALL NOT BE USED.
6. REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. #3 BARS MAY BE GRADE 40.
7. STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:

   WHERE CAST AGAINST DIRT OR FILL .... 3 IN.
   EXPOSED TO EARTH OR WEATHER .... 2 IN.
   SLABS AND WALLS .... 1 IN.
   OTHER .... 1-1/2 IN.
8. ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.
9. SLAB MAT TO BE SUPPORTED BY MASONRY BATTS OR CHAIRS (MIN OF 1/2 BRICK) SPACED AT 4 FEET ON CENTER EACH WAY (MAX). BEAM CAGES SUPPORTED BY BATTS AT 4 FEET ON CENTER.

CONCRETE CONTINUED:

10. INCLUDE AN ALLOWANCE FOR **2.0 TON** OF REINFORCING BARS TO BE USED AS DIRECTED IN FIELD FOR SPECIAL CONDITIONS AT A COST OF **$2,000.00 PER TON** (LABOR FOR PLACING SAME TO BE INCLUDED).
11. MAINTAIN A MINIMUM OF ONE AND ONE-HALF (1-1/2) TIMES THE MAXIMUM COARSE AGGREGATE SIZE BETWEEN ALL REINFORCING BARS (EXCEPT AT LAPS).
12. BARS SCHEDULED OR DETAILED "CONT" SHALL BE LAPPED 40 BAR DIAMETERS (24 INCHES MINIMUM) UNLESS OTHERWISE NOTED.
13. CONCRETE MAY BE PLACED WITH CHUTES UP TO 25' MAXIMUM. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.
14. CONCRETE PLACED BY PUMPING SHALL MEET THE FOLLOWING REQUIREMENTS:

    A. COARSE AGGREGATE SHALL BE GRADED FROM A MAXIMUM OF 1" DOWN

    B. MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR SHALL BE 1/2 SACK PER CUBIC YARD OVER NORMAL MIX DESIGN.

    C. MAXIMUM WATER CEMENT RATIO SHALL BE 7-1/2 GALLONS PER SACK OF CEMENT.IF MORE WORKABILITY IS REQUIRED, AN ADMIXTURE MAY BE USED.

    D. MAXIMUM WEIGHT RATIO OF FINE AGGREGATES TO COARSE AGGREGATES SHALL NOT EXCEED 2/3.

    E. REFER TO A.C.I. #301, LATEST EDITION, SECTION 800, FOR OTHER PUMPING REQUIREMENTS.

    F. IN NO CASE SHALL CONCRETE BE PUMPED THROUGH AN ALUMINUM TUBE.

    G. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.
15. FLOOR FINISH (TOLERANCES)

    A. STEEL TROWEL FINISH 1/8" IN 10'

    B. FLOAT FINISH 1/4" IN 10'

    C. SCRATCH FINISH 1/2" IN 10'
16. CONCRETE TO BE CURED IN ACCORDANCE WITH ACI RECOMMENDATIONS. PROPOSED METHOD OF CURING TO BE COORDINATED WITH ENGINEER PRIOR TO CONCRETE PLACEMENT.
17. SHOP DRAWINGS SHALL BE PREPARED FOR ALL REINFORCING STEEL AND SUBMITTED FOR REVIEW BY ENGINEER. SUBMITTALS SHALL INCLUDE ELECTRONIC (PDF) COPIES OF EACH DRAWING. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
18. THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWING BEFORE SUBMITTING THEM TO THE ARCHITECT / ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT / ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.
19. ENGINEER TO BE NOTIFIED 48 HOURS PRIOR TO PLACEMENT OF FOUNDATION AND OF STRUCTURAL CONCRETE SCHEDULE REQUIRED OBSERVATIONS.

CONCRETE MASONRY

1. **THE GENERAL CONTRACTOR, PROJECT SUPERINTENDENT, TESTING LABORATORY AND THE MASONRY FOREMAN** SHALL MEET WITH THE STRUCTURAL ENGINEER PRIOR TO THE START OF MASONRY WORK TO REVIEW PROJECT REQUIREMENTS AND PROCEDURES.
2. AN INDEPENDENT TESTING LAB SHALL VERIFY PLACEMENT OF VERTICAL REINFORCING IN WALLS AND HORIZONTAL REINFORCING IN BOND BEAMS AND LINTELS PRIOR TO PLACEMENT OF GROUT. INDEPENDENT TESTING LAB SHALL PROVIDE CONTINUOUS VISUAL OBSERVATIONS OF GROUTING PROCEDURES, REBAR PLACEMENT, SITE MIXING OF MORTAR, INSTALLATION OF EMBEDED STEEL CONNECTORS, AND GENERAL PLACEMENT OF MASONRY UNITS AND MORTAR JOINTS. INSPECTION REPORTS ARE TO BE GENERATED DAILY BY THE TESTING LAB. INSPECTION SUMMARY REPORTS SHALL BE EMAILED TO THE STRUCTURAL ENGINEER IN ELECTRONIC (PDF) FORMAT.
3. ALL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODES AND THE AMERICAN CONCRETE INSTITUTE (ACI 530-02/ ASCE 5-02/ TMS 402-02). DESIGN IS BASED ON MASONRY COMPRESSIVE STRENGTH (f'm) OF 2,150 PSI.
4. HOT AND COLD WEATHER CONSTRUCTION PROCEDURES SHALL BE UTILIZED AS REQUIRED BY THE SPECIFICATIONS AND ACI 530.1.
5. HOLLOW CONCRETE MASONRY UNITS SHALL BE DOMESTIC LIGHTWEIGHT MOISTURE CONTROLLED TYPE I UNITS, CONFORMING TO ASTM C-90-97.
6. MASONRY UNITS SHALL HAVE A MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 1,900 PSI (NET AREA) WHEN TESTED IN ACCORDANCE WITH ASTM C-140, "METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS" .
7. MORTAR PROPORTIONS FOR REINFORCED MASONRY SHALL BE ESTABLISHED PER ASTM C270 PROPORTION SPECIFICATIONS, TYPE S USING MASONRY CEMENT. FIELD TESTS OF MORTAR SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY IN ACCORDANCE WITH ASTM C780 AT A RATE OF ONE TEST PER 2,000 SF OF WALL SURFACE TO DETERMINE BATCH-TO-BATCH UNIFORMITY OF MORTAR. REFERENCE SPECIFICATIONS FOR NON REINFORCED MASONRY.
8. GROUT FOR ALL REINFORCED HOLLOW MASONRY UNIT WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI WITH A MAXIMUM 3/8" AGGREGATE. A MID RANGE WATER REDUCING AGENT SUCH AS "POLYHEED" (MASTER BUILDERS) SHALL BE USED. SLUMP TO BE BETWEEN 8 AND 11 INCHES. **ALL GROUT SHALL BE PUMPED**. PLACING OF GROUT TO FOLLOW AMERICAN CONCRETE INSTITUTE (ACI) RECOMMENDATIONS REGARDING **LOW & HIGH LIFT GROUTING**. MAXIMUM LIFT OF GROUT SHALL NOT EXCEED 5'-0" UNLESS APPROVED BY THE ENGINEER PRIOR TO START OF GROUTING. GROUT TO BE TESTED BY A QUALIFIED TESTING LABORATORY AT A RATE OF ONE TEST PER 25 CY OF GROUT IN ACCORDANCE WITH ASTM C1019.
9. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ALL BAR REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (MIN). BARS SHALL BE PLACED WITHIN 1/2" (CENTERLINE OF BAR TO FACE OF MASONRY) OF LOCATION SHOWN IN STRUCTURAL PLANS. BARS SHALL BE HELD IN POSITION DURING GROUTING WITH BAR POSITIONERS. POSITIONERS SHALL BE LOCATED AT THE BOTTOM AND TOP OF THE WALL AND AT 8 TO 10 FOOT INTERVALS. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP NOR MORE THAN 8 INCHES.
10. VERTICAL BARS SHALL EXTEND TO THE TOP OF THE PARAPET WALL OR BOND BEAM WHEN A 16" DEEP BEAM IS SPECIFIED. HOOKED DOWELS SHALL BE PROVIDED AT ROOF BOND BEAMS (w/o PARAPETS) LESS THAN 16" DEEP. DOWELS SHALL BE 30" LONG WITH 12" HOOKS.
11. ALL EXTERIOR MASONRY WALLS SHALL BE REINFORCED WITH 9 GA. HOT DIPPED GALVANIZED HORIZONTAL WIRE REINFORCEMENT (LADDER TYPE) EMBEDDED IN MORTAR JOINTS AT 16" O.C. NOMINAL WIDTH OF JOINT REINFORCING SHALL EQUAL WALL THICKNESS. (INTERIOR WALLS MAY BE MILL GALVANIZED). WIRE REINFORCEMENT SHALL CONFORM TO ASTM DESIGNATION A-82, AND SHALL BE LAPPED AT LEAST 8" WITH AT LEAST ONE CROSS WIRE WITHIN THE LAP. JOINT REINFORCING SHALL BE INSTALLED IN THE FIRST AND SECOND MORTAR BED JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS. WIRE REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
12. EXTERIOR WALLS SHALL BE BONDED WITH CONCRETE MASONRY UNITS AT BUILDING CORNERS.
13. ONE GROUTED #5 BAR SHALL BE PROVIDED AROUND THE PERIMETER OF ALL WALL OPENINGS AND AT BUILDING CORNERS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS.
14. NEATLY TOOL INTERIOR AND EXTERIOR JOINTS IN MASONRY TO FORM A SLIGHTLY CONCAVE PROFILE WHEN MORTAR IS THUMBPRINT HARD UNLESS SHOWN OTHERWISE. ALL MORTAR JOINTS SHALL BE TOOLED THE ENTIRE HEIGHT OF WALL.
15. BOND BEAMS SHALL BE REINFORCED WITH TWO CONTINUOUS #5 BARS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS. REINFORCING SHALL BE CONTINUOUS AT ALL CORNERS AND INTERSECTING WALLS. (PROVIDE CORNER BARS). WHERE SIDE WALL AND END WALL BOND BEAMS DO NOT COURSE CONTINUE THE LOWER BOND BEAM AROUND THE BUILDING CORNER TO THE FIRST VERTICAL REINFORCED CELL.
16. CONTROL JOINTS SHALL BE CONSTRUCTED WITH SLOTTED MASONRY UNITS AND FACTORY MOLDED JOINT FILLER. JOINTS SHALL BE CAULKED WITH AN APPROVED MATERIAL. JOINTS SHALL BE PROVIDED AT MAXIMUM SPACING OF 22 FT. AND AT ALL LOCATIONS WHERE COLUMNS ARE PLACED IN CMU CELLS. (EXTERIOR AND INTERIOR WALLS). JOINT LOCATIONS, IF NOT SHOWN ON PLANS, SHALL BE COORDINATED WITH ARCHITECT.
17. CONTROL JOINTS **SHALL NOT** EXTEND THROUGH BOND BEAMS UNLESS INDICATED ON THE STRUCTURAL PLANS.
18. CONTROL JOINTS IN CMU WALLS SHALL NOT BE LOCATED CLOSER THAN 2'-0" FROM AN EDGE OF OPENING WITHOUT REVIEW OF STRUCTURAL ENGINEER.
19. COLUMNS WHICH EXTEND THROUGH BOND BEAMS SHALL BE WRAPPED WITH 2 LAYERS OF 30# BUILDING PAPER. REINFORCING SHALL BE CONTINUOUS PAST COLUMNS WHEN ADEQUATE CLEARANCE EXISTS.
20. LINTELS OVER ALL OPENINGS IN INTERIOR MASONRY PARTITIONS, NOT OTHERWISE COVERED, ARE TO BE OF STANDARD CMU LINTEL BLOCK WITH THICKNESS EQUAL TO WALL THICKNESS. DEPTH SHALL BE 8" FOR OPENINGS UP TO 6'-0", REINFORCED WITH TWO #5's, LOCATED 2-1/2" ABOVE THE BOTTOM EXTERIOR FACE OF THE UNIT.
21. INCLUDE IN BID AN ALLOWANCE OF **2.0 TON** OF REINFORCING BARS TO BE USED AS DIRECTED IN FIELD FOR SPECIAL CONDITIONS AT A COST OF **$2,000.00 PER TON** (LABOR AND GROUT FOR PLACING SAME TO BE INCLUDED). ANY UNUSED ALLOWANCE WILL BE CREDITED TO THE OWNER AT THE END OF THE PROJECT.

STRUCTURAL STEEL

1. TOP OF BEAM/PLATE (TOB OR TOP) IS USED INTERCHANGEABLY ON PLANS. REFERENCE APPLICABLE SECTION FOR CLARIFICATION.
2. STRUCTURAL STEEL WIDE FLANGE MEMBERS SHALL CONFORM TO ASTM SPECIFICATION A 572 AND/OR ASTM A 992 (Fy = 50 KSI) UNLESS OTHERWISE SHOWN OR NOTED. PLATE AND ANGLES MAY BE A36 (Fy = 36 KSI).
3. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM SPECIFICATION A-500, GRADE B (Fy=46 KSI). STEEL PIPE SHALL COMPLY WITH ASTM A53 TYPE E OR S (Fy=35 KSI).
4. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
5. ALL BOLTS SHALL BE 3/4 DIAMETER ASTM A325. WASHERS SHALL BE PROVIDED AT OVERSIZED HOLES AND AT SLOTTED CONNECTIONS AT EXPANSION JOINTS. A325 CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. ANCHOR BOLTS MAY BE ASTM A307 UNLESS NOTED OTHERWISE.
6. REFER TO ARCHITECTURAL & MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING ANCHORS, ETC., FOR THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.

STRUCTURAL STEEL CONTINUED:

7. ALL BEAMS AND COLUMNS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS INDICATED ON PLANS OR APPROVED BY THE ENGINEER IN WRITING.
8. ALL SHOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED AND CERTIFIED TO MAKE THE REQUIRED WELDS IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS (A.W.S. D-1.1).
9. WELDS SHALL BE MADE WITH COVERED MILD STEEL ELECTRODES COMPLYING WITH AWS D1-72 CODE AND SERIES E 70XX.
10. ERECTION CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND BE TRUE AND PLUMB WHEN WELDS ARE MADE.
11. ALL COMPLETE PENETRATION WELDS, BOTH SHOP AND FIELD, SHALL BE TESTED BY A QUALIFIED TESTING LABORATORY UTILIZING ULTRA SONIC TESTING PROCEDURES IN ACCORDANCE WITH A.W.S. D-1.1. ANY WELDS FOUND DEFECTIVE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. ALL X-RAYED WELDS SHALL BE GROUND SMOOTH.
12. THE FABRICATOR SHALL SUPPLY BACK-UP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION WELDS.
13. ALL STEEL MEMBERS INCLUDING SECONDARY COMPONENTS, FASTENERS AND ASSOCIATED ACCESSORIES, SHALL BE HOT-DIPPED GALVANIZED.
14. WELDED HEADED STUDS (WHS) SHALL BE "NELSON ANCHORS", OR EQUAL, Fs = 60 KSI, DIAMETER AND LENGTH AS SHOWN ON PLANS. STUDS TO BE WELDED& SHOP TESTED IN ACCORDANCE W/ THE MANUFACTURER'S RECOMMENDATIONS.
15. AFTER ERECTION, PRIME WELDS, ABRASIONS AND SURFACES NOT PRIMED. USE PRIMER CONSISTENT WITH SHOP COAT. GALVANIZED SURFACES (HOT DIPPED OR COLD) SHALL BE CLEANED AND PAINTED WITH "ZRC".
16. FIELD WELDS AND BOLTED CONNECTIONS SHALL BE VISUALLY INSPECTED BY A QUALIFIED INDEPENDENT INSPECTOR. THE INSPECTOR SHALL PROVIDE A WRITTEN REPORT TO THE STRUCTURAL ENGINEER.
17. A SINGLE ELECTRONIC FILE (PDF FORMAT) SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL STEEL COMPONENTS AND SUBMITTED FOR REVIEW BY ENGINEER. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
18. THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT/ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.
19. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR A FRAMING OBSERVATION IMMEDIATELY AFTER ROOF PANELS ARE INSTALLED AND BEFORE INSTALLATION OF THE CEILING.
20. INCLUDE IN BID AN ALLOWANCE FOR **1.0 TON** OF FABRICATED AND PRIMED STRUCTURAL STEEL TO BE USED AS DIRECTED IN THE FIELD FOR SPECIAL CONDITIONS AT A COST OF **$4,000.00 PER TON** (LABOR FOR ERECTING SAME TO BE INCLUDED). ANY UNUSED ALLOWANCE WILL BE CREDITED TO THE OWNER AT THE END OF THE PROJECT.

FASTENERS

1. CAST-IN-PLACE AND POST-INSTALLED ANCHORS SHALL BE PER ANCHOR DIAMETER AND EMBEDMENT DEPTH NOTED ON THE DRAWINGS. POST-INSTALLED ANCHORS SHALL BE UTILIZED ONLY WHERE SPECIFIED.
2. ALL ANCHORS NOTED BELOW SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS, AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.
3. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT NOTED BELOW. SPECIAL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT TESTING LABORATORY PERFORMING QA/QC SERVICES ON PROJECT.
4. EXPANSION BOLTS (EB) IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. KWIK BOLT III (ICC-ES ESR-2302) BY HILTI (CONCRETE)

   B. KWIK BOLT III (ICC-ES-ESR-1385) BY HILTI (MASONRY)

   C. STRONG-BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG-TIE (CONCRETE)

   D. WEDGE-ALL ANCHOR (ICC-ES ESR-1396) BY SIMPSON STRONG-TIE (MASONRY)
5. HEAVY DUTY SLEEVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED OR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. EXPANSION BOLTS (EB) SHALL NOT BE SUBSTITUTED FOR SLEEVE ANCHORS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER. ACCEPTABLE PRODUCTS:

   A. HSL-3 (ICC-ES ESR-1545) BY HILTI (CONCRETE)
6. SCREW ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. KWIK HUS-EZ (ICC-ES ESR-3027) BY HILTI (CONCRETE)

   B. KWIK HUS-EZ (ICC-ES ESR-3056) BY HILTI (MASONRY)

   C. TITEN HD (ICC-ES ESR-2713) BY SIMPSON STRONG-TIE (CONCRETE)

   D. TAPCON ANCHORS (ICC-ES ESR-1671) (MASONRY)

   E. POWERS WEDGE BOLT (ICC-ES ESR-1678) (MASONRY)
7. UNDERCUT ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. HDA (ICC-ES ESR-1546) BY HILTI (CONCRETE)

   B. TORQ-CUT (ICC-ES ESR-2705) BY SIMPSON STRONG-TIE (CONCRETE)
8. POWDER ACTUATED FASTENERS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

   A. X-U (ICC-ES ESR-2269) BY HILTI (CONCRETE/MASONRY/STEEL)

   B.POWDER ACTUATED FASTENERS (ICC-ES ESR-2138) BY SIMPSON STRONG TIE (CONCRETE/MASONRY)
9. ADHESIVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ACCEPTABLE PRODUCTS:

   A. HIT-RE 500-V3 (ICC-ES ESR-3814) BY HILTI (CONCRETE)

   B. HIT-HY 270 (ICC-ES ESR-4143) BY HILTI (MASONRY)

   C. SET-XP (ICC-ES ESR-2508) BY SIMPSON STRONG-TIE (CONCRETE)

   D. SET (ICC-ES ESR-1772) BY SIMPSON STRONG-TIE (MASONRY)
10. J-BOLTS SHALL BE FABRICATED FROM ASTM A36/A307 ROD. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. EXPANSION BOLTS/SLEEVE ANCHORS SHALL NOT BE SUBSTITUTED FOR J-BOLTS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER.
11. HEADED ANCHOR RODS SHALL BE FABRICATED FROM ASTM F1554 MATERIAL, FY=36 KSI
12. SUBSTITUTION REQUESTS FOR PRODUCTS LISTED ABOVE SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS. SUBSTITUTED ANCHORS SHALL HAVE A VALID CURRENT EVALUATION (ICC-ES OR IAPMO-ES) REPORT.
13. REFERENCE STRUCTURAL STEEL NOTES FOR BOLTS CONNECTING STRUCTURAL STEEL COMPONENTS.

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GENERAL STRUCTURAL NOTES

S1.1U

GENERAL STRUCTURAL NOTES

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS INDEPENDENT OF THE CONTRACTOR, THE ARCHITECT, OR THE ENGINEER, SHALL BE PROVIDED BY A SPECIAL INSPECTOR EMPLOYED BY THE OWNER ACCORDING TO CHAPTER 17 OF THE IBC 2012. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SEND WRITTEN REPORTS TO THE OWNER, THE ARCHITECT, THE ENGINEER AND THE CONTRACTOR. THE REPORTS SHALL INDICATE IF WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF THEIR KNOWLEDGE, IN OR NOT IN CONFORMANCE WITH THE DRAWINGS, SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC 2012.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT		X
INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	X	
VERIFY USE OF REQUIRED DESIGN MIX		X
PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE AT THE TIME OF SAMPLING FRESH CONCRETE FOR MAKING SPECIMENS FOR STRENGTH TESTS PER ACI 318	X	
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
INSPECTION OF PRESTRESSED CONCRETE APPLICATION OF PRESTRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS	X	
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X
ERECTION OF PRECAST CONCRETE MEMBERS		X
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X

REQUIRED LEVEL 1 SPECIAL INSPECTION OF MASONRY CONSTRUCTION (OCCUPANCY CATEGORY I, II, III)

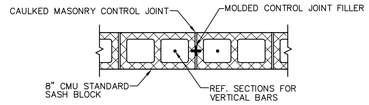
INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
PROPORTIONS OF SITE-PREPARED MORTAR		X
PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		X
LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		X
THE INSPECTION PROGRAM SHALL VERIFY:		
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X
TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION		X
SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT		X
PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
GROUT SPACE IS CLEAN		X
PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES		X
CONSTRUCTION OF MORTAR JOINTS		X
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	X	
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	X	
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBITTALS SHALL BE VERIFIED		X

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

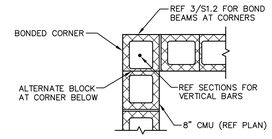
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X
INSPECTION OF HIGH STRENGTH BOLTING		X
INSPECTION OF WELDING:		
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	
MULTIPASS FILLET WELDS	X	
SINGLE-PASS FILLET WELDS		X
FLOOR AND ROOF DECK WELDS		X
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X

REQUIRED VERIFICATION AND INSPECTION OF ANCHORS

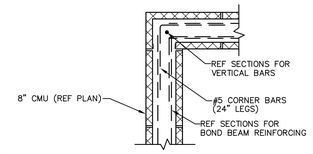
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
CAST-IN-PLACE, POST-INSTALLED, MECHANICAL AND EPOXY SET ANCHORS: AS APPLICABLE, THE INSPECTION PROGRAM SHALL VERIFY THE ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH & DIAMETER AND CLEANOUT, EPOXY MIXING AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE CURRENT ICC-ES EVALUATION REPORT	FREQUENCY OF INSPECTION SHALL BE IN ACCORDANCE WITH THE CURRENT ICC-ES EVALUATION REPORT, OR PER THE SPECIAL INSPECTION REQUIREMENTS OF THE ANCHOR SUBSTRATE, WHICHEVER IS MORE STRINGENT	



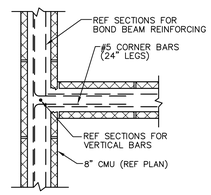
1 TYPICAL CRACK CONTROL JOINT



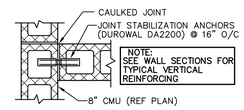
2 BONDED CORNER



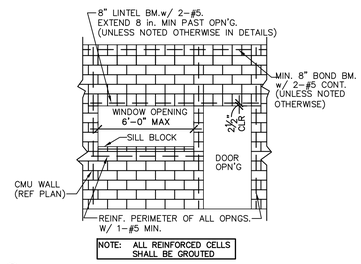
3 BOND BEAM AT EXTERIOR CORNERS



4 TYPICAL BOND BEAM AT INTERSECTING WALL



5 TYPICAL UNBONDED WALL INTERSECTION



6 TYPICAL REINFORCING AT OPENINGS
(NONLOADBEARING INTERIOR WALLS ONLY)

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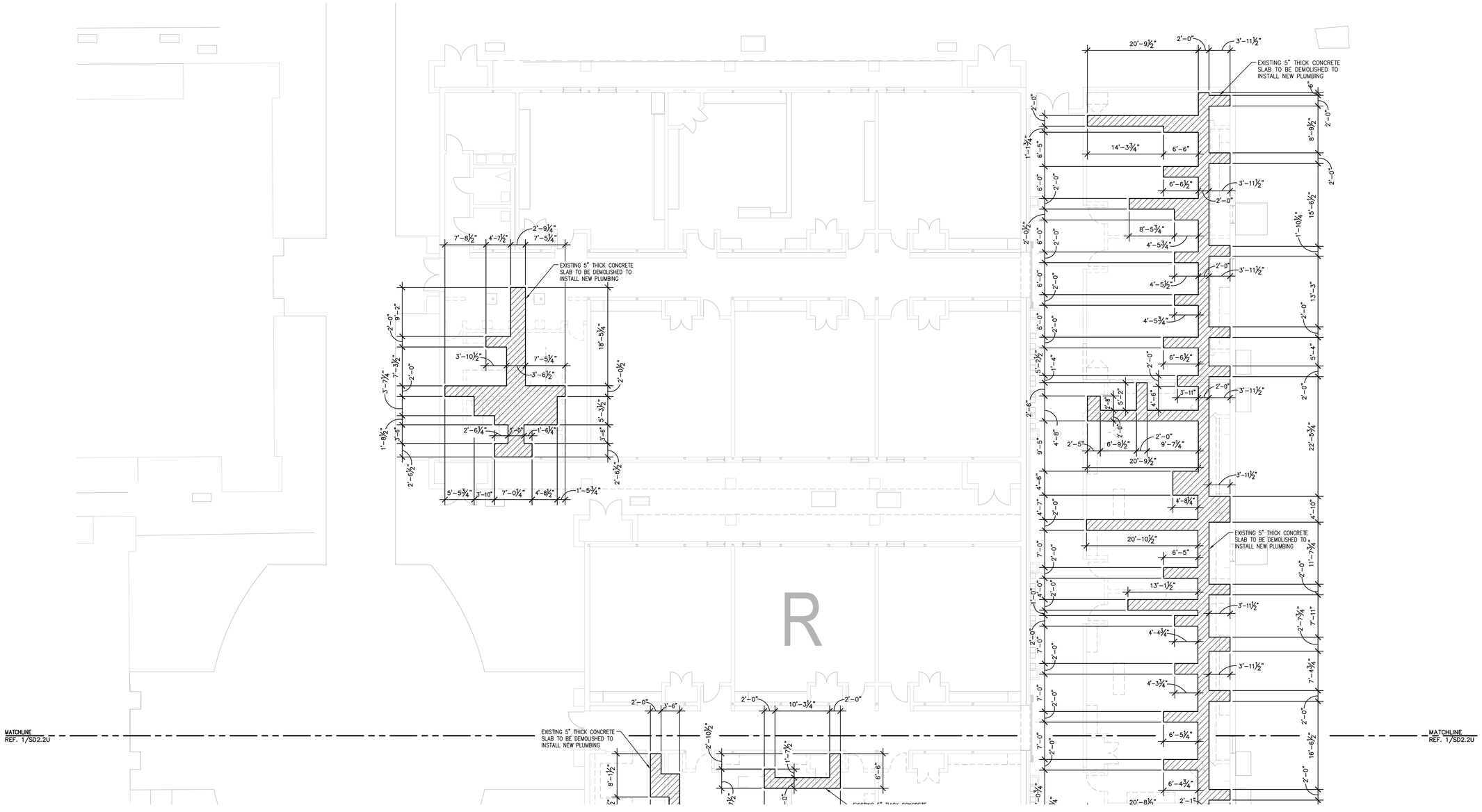

1 FOUNDATION DEMO PLAN

1/8" = 1'-0" AREA R

N
PLAN NORTH

NOTES:

1. INDICATES LOCATIONS WHERE EXISTING 5" THICK SLAB (FIELD VERIFY & COORDINATE WITH MEP) WILL BE DEMOLISHED TO INSTALL NEW PLUMBING. CONTRACTOR SHALL COORDINATE ADDITIONAL LOCATIONS OF SLAB OPENINGS WITH UNDER-SLAB UTILITY DRAWINGS. REFERENCE ARCHITECTURAL AND M.E.P. DRAWINGS FOR ADDITIONAL INFORMATION.
2. REFER TO ARCHITECTURAL AND M.E.P. FOR ADDITIONAL DEMOLITION SCOPE.
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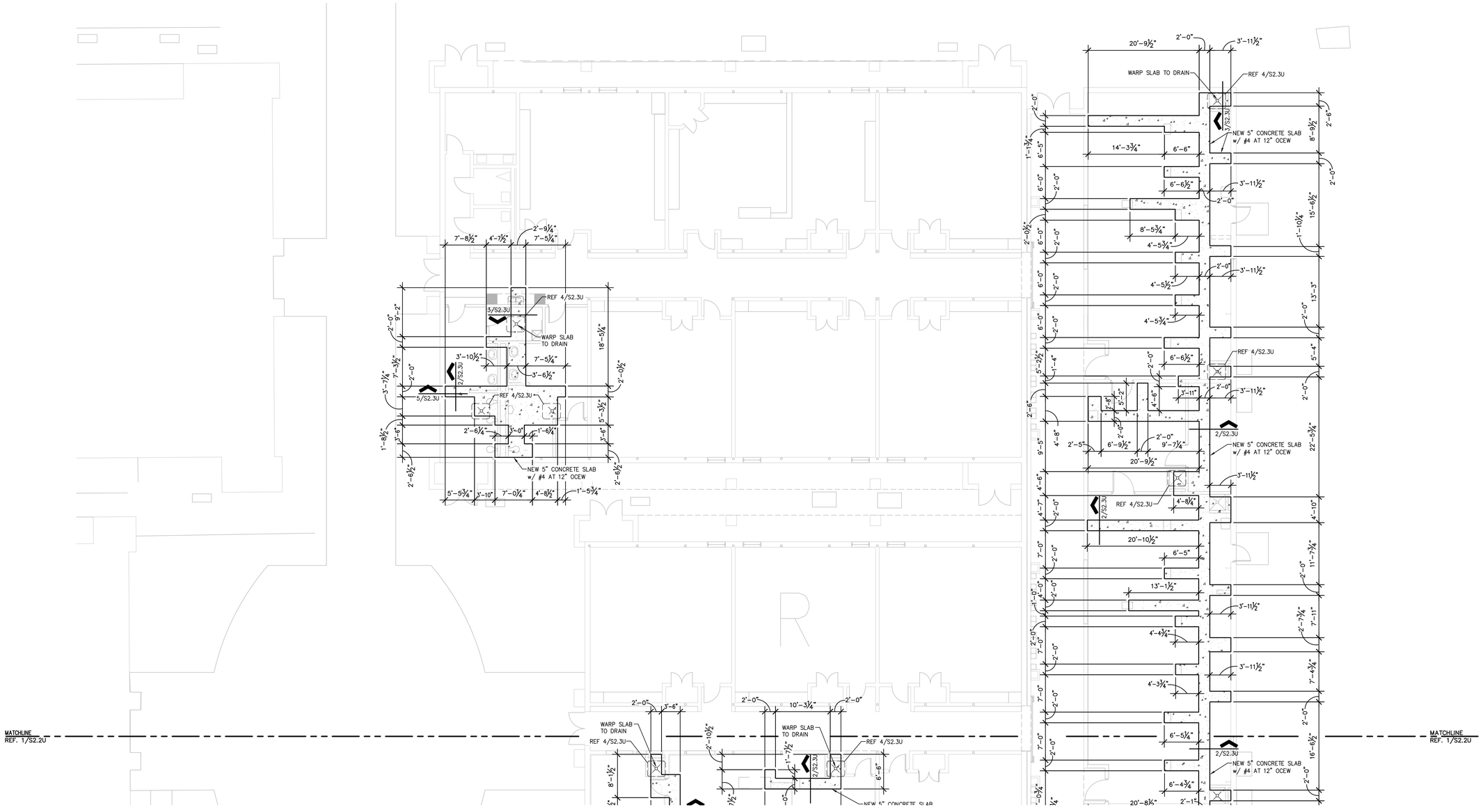

1 FOUNDATION RENOVATION PLAN

1/8" = 1'-0"

AREA R

N

PLAN NORTH

NOTES:

1. INDICATES LIMIT OF NEW 5" THICK SLAB ON GRADE FOUNDATION SLAB.
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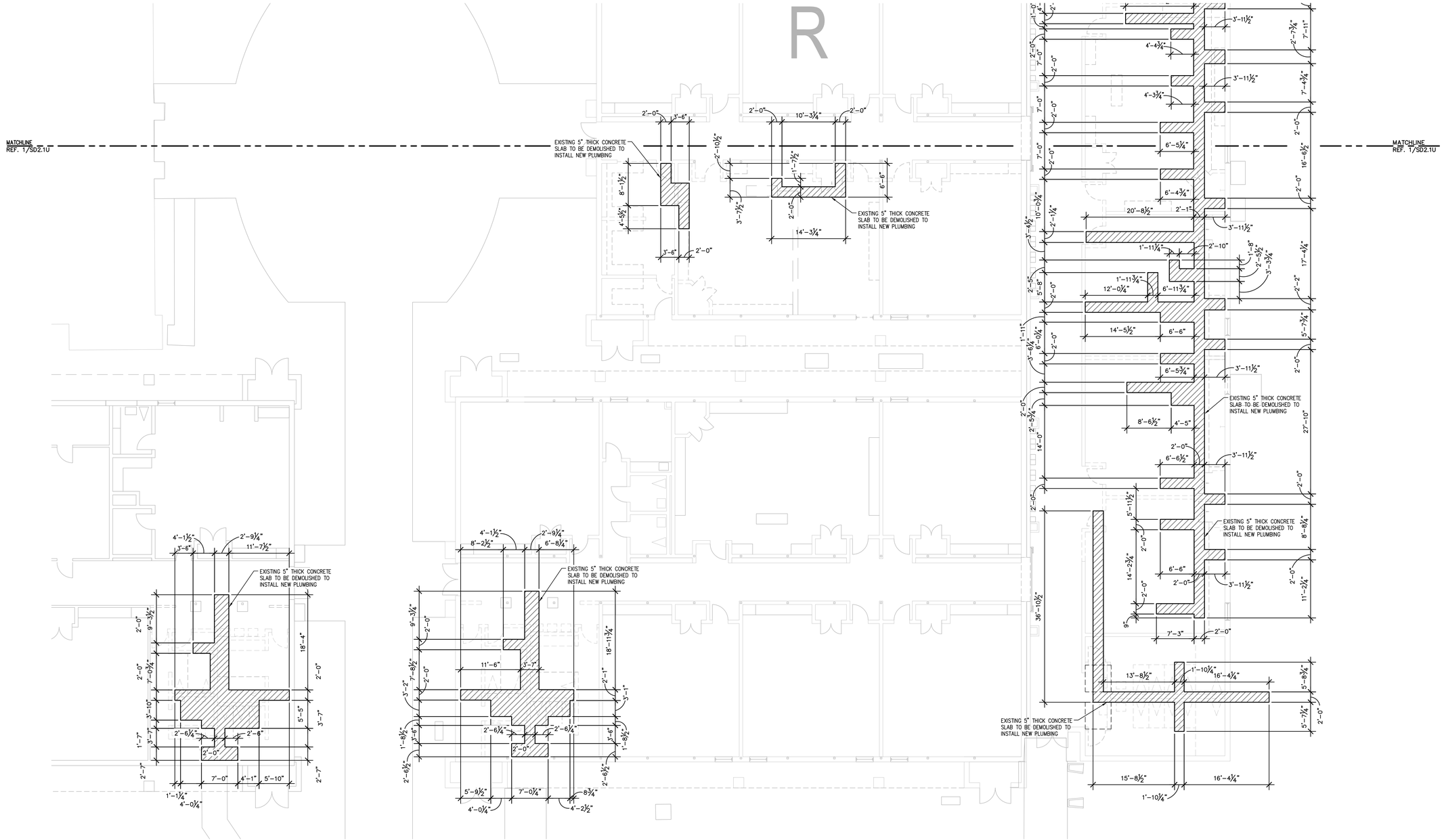

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1/8" = 1'-0" AREA J AND R

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NOTES:

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4. CONTRACTOR SHALL INCLUDE ALL NECESSARY LABOR, EQUIPMENT, TOOLS, AND SUPERVISION TO DEMOLISH EXISTING CONCRETE TO EXPOSE UNDER SLAB SUBGRADE. CONCRETE THICKNESS MAY VARY.

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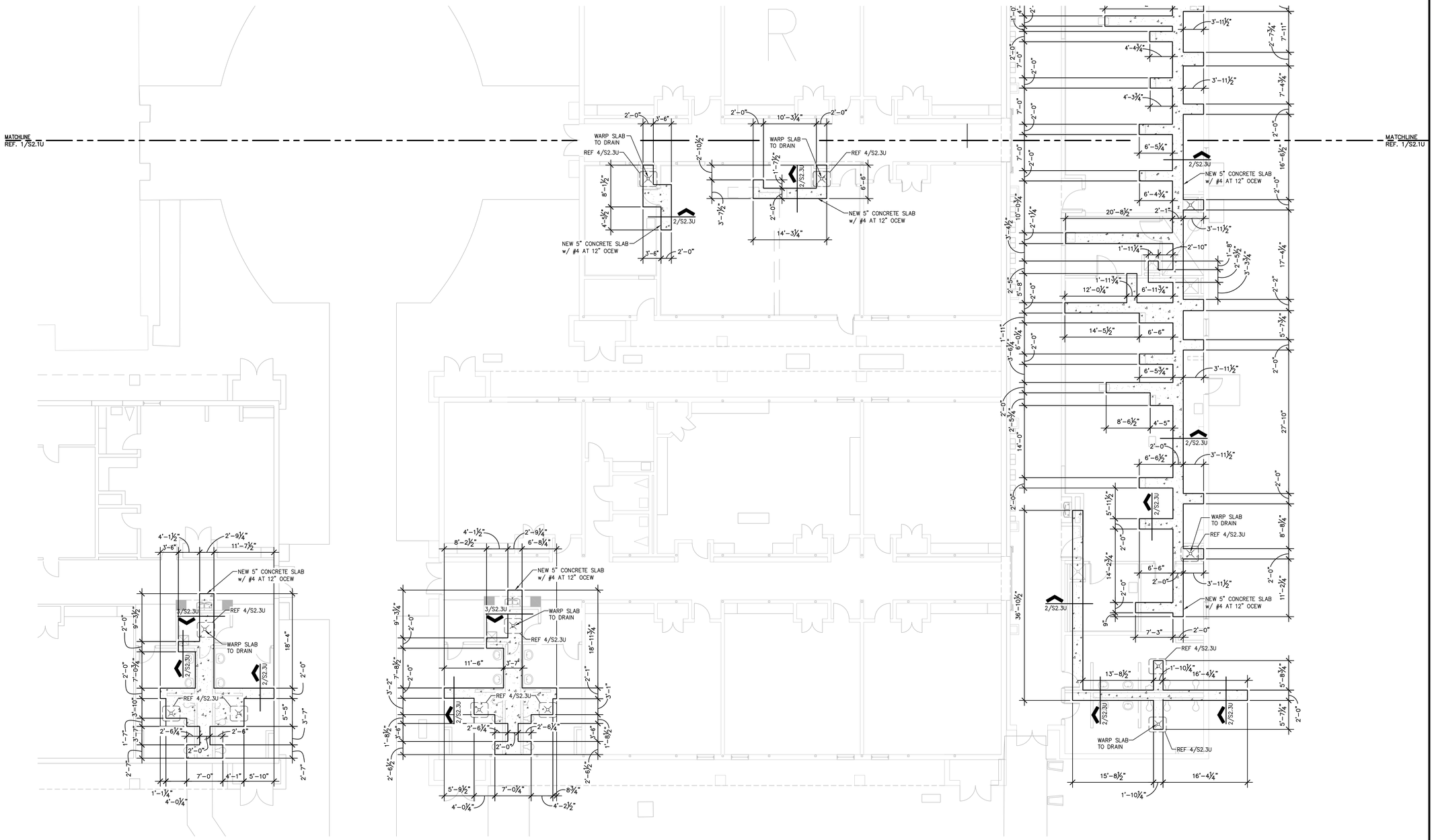

1 FOUNDATION RENOVATION PLAN

1/8" = 1'-0"

AREA J AND R

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PLAN NORTH

NOTES:

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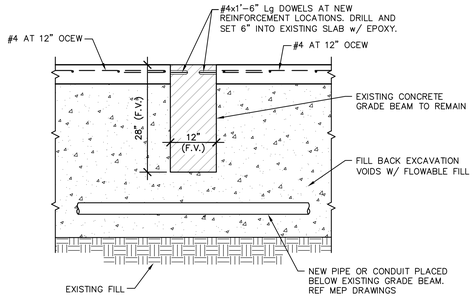
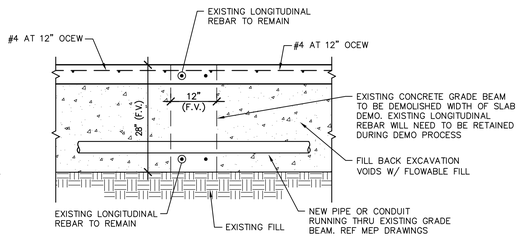


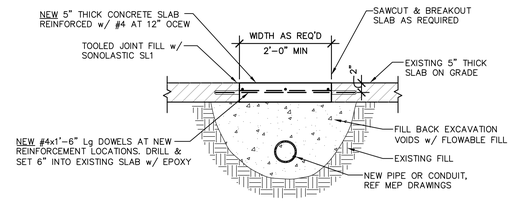
OPTION 1 IF NEW PLUMBING LINES RUN BELOW EXISTING GRADE BEAM



OPTION 2 IF NEW PLUMBING LINES RUN THRU EXISTING GRADE BEAM

1 NOTES:

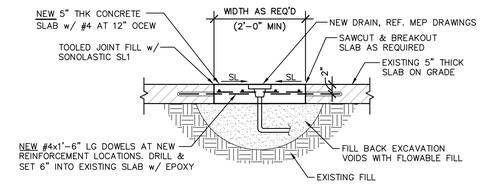
1. CONTRACTOR TO COORDINATE LOCATIONS OF INTERIOR GRADE BEAMS IN THE FIELD.



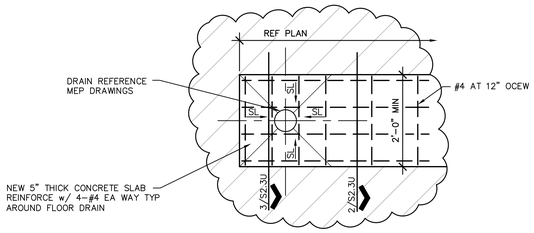
2 TYPICAL UTILITY TRENCH DETAIL

NOTES:

1. COORDINATE UTILITY TRENCH LOCATION WITH MEP DRAWINGS.



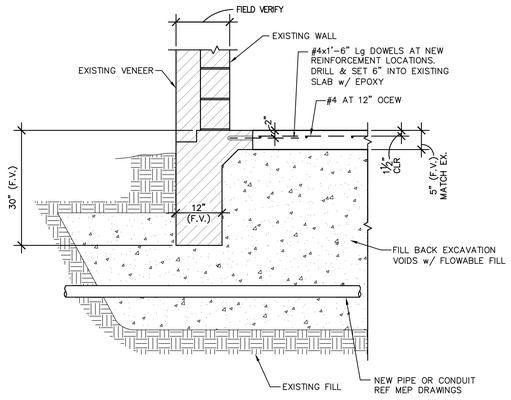
3 TYPICAL DRAIN CROSS SECTION



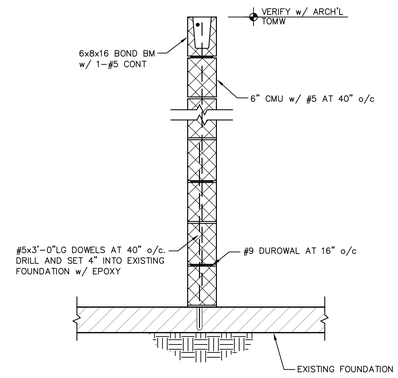
4 TYPICAL DRAIN DETAIL

NOTES:

1. COORDINATE LOCATION w/ MEP DRAWINGS.



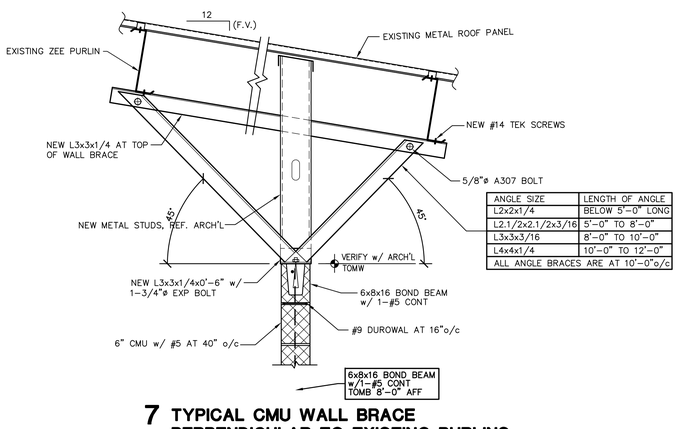
5 TYPICAL UTILITY TRENCH AT EXTERIOR GRADE BEAM



6 NEW TYPICAL INTERIOR 6" CMU WALL

NOTE:

1. IF WALL IS LONGER THAN 20'-0" WITHOUT AN INTERSECTING WALL PROVIDE AN ANGLE BRACE TO EXISTING STRUCTURE. REF DETAILS 7/S2.8N & 8/S2.8.
2. COORDINATE LOCATION AND LIMIT OF NEW INTERIOR MASONRY WALL WITH ARCHITECT.

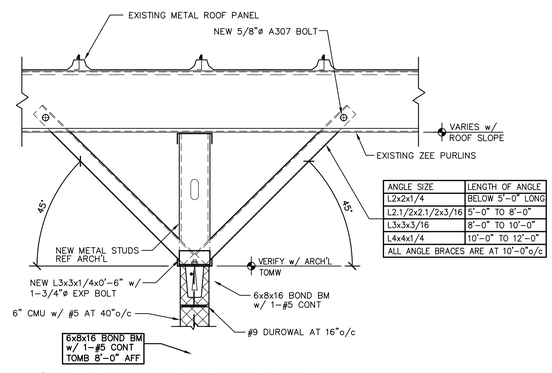


ANGLE SIZE	LENGTH OF ANGLE
L2x2x1/4	BELOW 5'-0" LONG
L2.1/2x2.1/2x3/16	5'-0" TO 8'-0"
L3x3x3/16	8'-0" TO 10'-0"
L4x4x1/4	10'-0" TO 12'-0"
ALL ANGLE BRACES ARE AT 10'-0"o/c	

7 TYPICAL CMU WALL BRACE PERPENDICULAR TO EXISTING PURLINS

PURLINS PARALLEL TO WALL (MAXIMUM SPACING OF BRACE 10'-0" o/c MAX)

ORIENT BRACE TOWARDS AREAS WITH CEILINGS SO THAT THEY ARE CONCEALED FROM VIEW

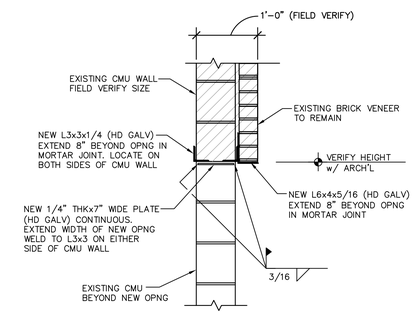


ANGLE SIZE	LENGTH OF ANGLE
L2x2x1/4	BELOW 5'-0" LONG
L2.1/2x2.1/2x3/16	5'-0" TO 8'-0"
L3x3x3/16	8'-0" TO 10'-0"
L4x4x1/4	10'-0" TO 12'-0"
ALL ANGLE BRACES ARE AT 10'-0"o/c	

8 TYPICAL CMU WALL BRACE PARALLEL EXISTING PURLINS

PURLINS PERPENDICULAR TO WALL (MAXIMUM SPACING OF BRACE 10'-0" o/c)

ORIENT BRACE TOWARDS AREAS WITH CEILINGS SO THAT THEY ARE CONCEALED FROM VIEW



9 TYPICAL LINTEL SUPPORT FRAMING AT NEW OPENINGS IN EXISTING MASONRY WALLS

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PROFESSIONAL ENGINEER
5-8-19

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	696-190
Drawing Date:	5-08-19
Drawn:	AV
Checked:	BD
Scale:	AS SHOWN

Revisions:

Sheet Title:

SLAB REPAIR DETAILS

GREEN, RUBIANO & ASSOCIATES
CONSULTING STRUCTURAL ENGINEERS
1520 WEST HARRISON
HARLINGEN, TEXAS 78550
(956)428-4481 (956)428-0287 FAX
FIRM REGISTRATION # F-4145

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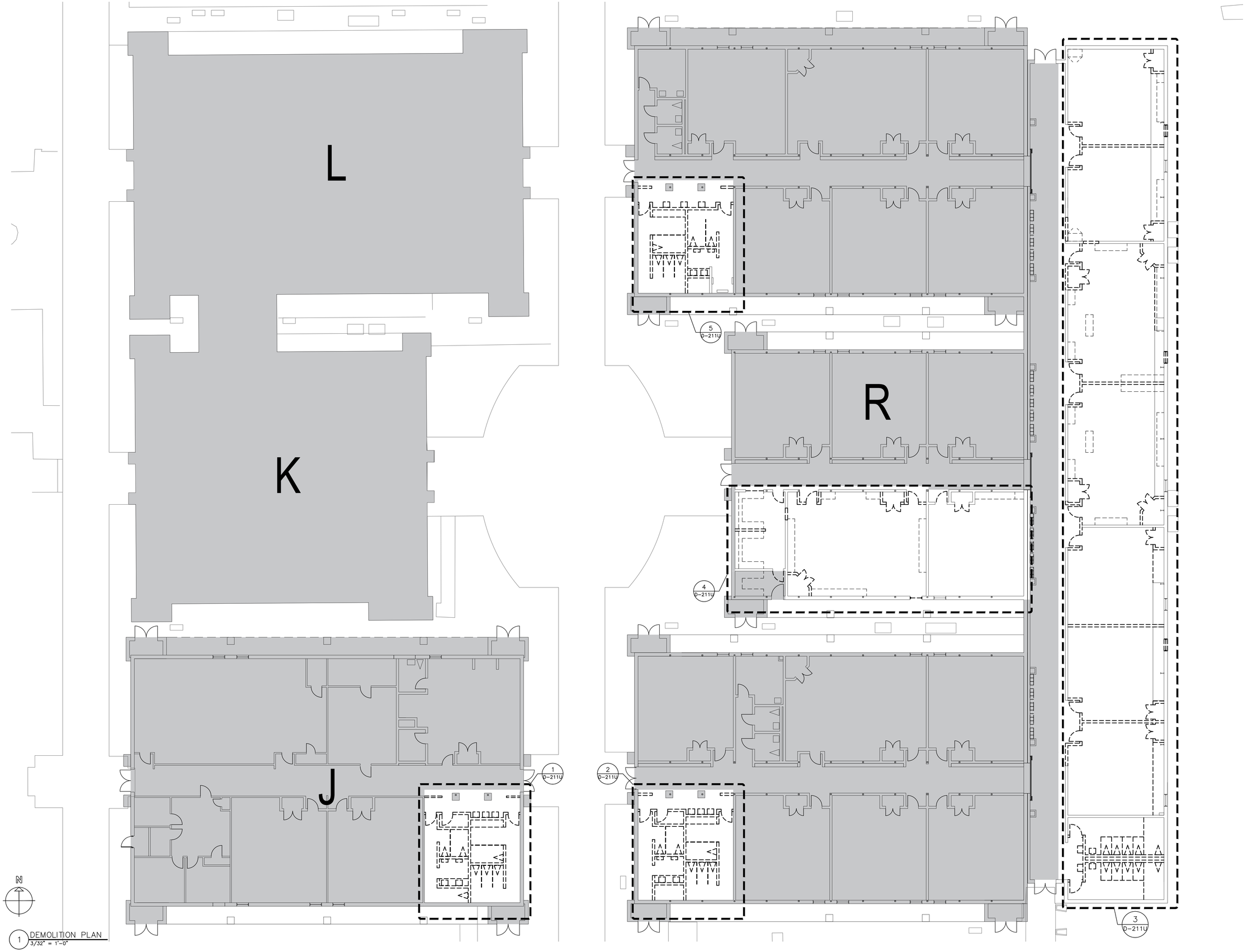
S2.3U



1 DEMOLITION PLAN
3/32" = 1'-0"

May 08, 2019 – 10:22am User: aluksa
P:\GBA Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-D-210U-Science Labs demo plan.dwg

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ARCHITECT

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	3/32"
ACAD File:	D-210-U

Revisions:

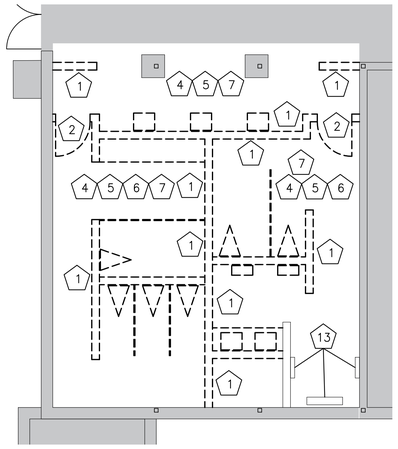
Sheet Title:

UNIV. CAMPUS DEMOLITION PLAN

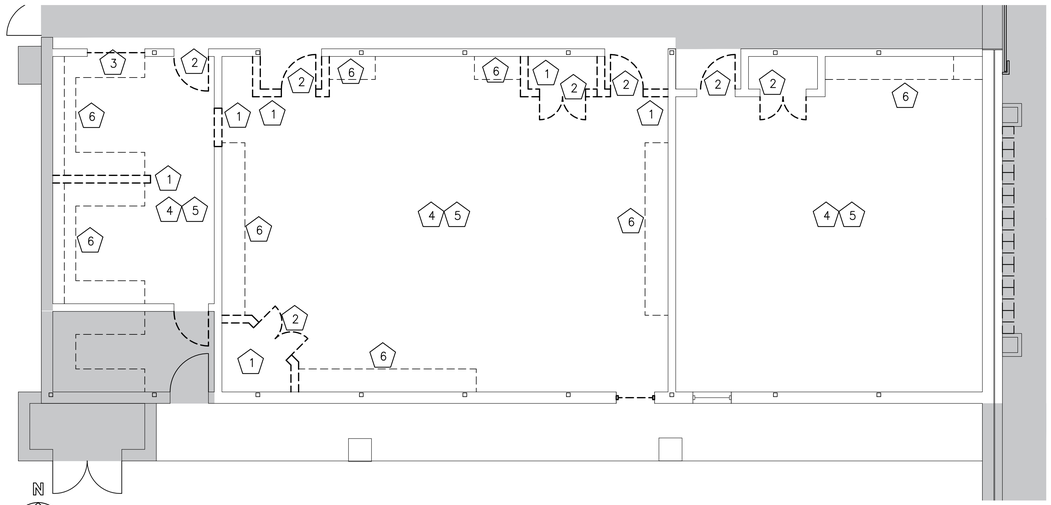
D-210-U

DEMOLITION KEY NOTES

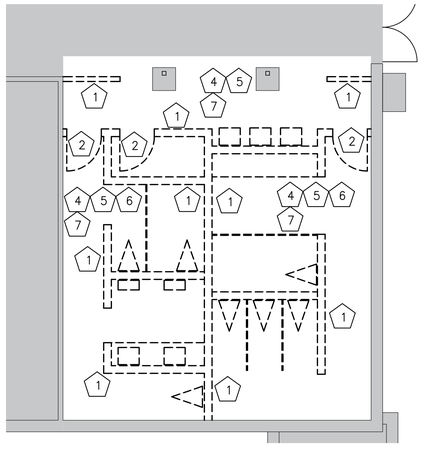
1. REMOVE EXISTING WALL OR PORTION OF WALL TO CREATE NEW OPENING; REFER TO PROPOSED FLOOR PLAN FOR EXTENTS OF NEW WALLS AND OPENINGS.
2. REMOVE EXISTING DOOR & FRAME.
3. REMOVE EXISTING WINDOWS, STOREFRONT FRAMING OR GLAZING.
4. REMOVE EXISTING FLOORING & FLOOR BASE WHERE NEW FLOOR FINISHES ARE PROPOSED; REFER PROPOSED PLANS. (FIELD VERIFICATION REQUIRED).
5. REMOVE EXISTING CEILING. 2X2 CLG TILES TO BE STORED TO MAINTAIN IN GOOD CONDITION AND SHALL BE RE-USED. REFER TO MEP DRAWINGS FOR ITEMS SUCH AS LIGHT FIXTURES, HVAC, ETC.
6. REMOVE EXISTING MILLWORK.
7. REMOVE EXISTING PLUMBING FIXTURES, ITEMS & ACCESSORIES.
8. EXISTING DOOR TO REMAIN; PROVIDE NEW HARDWARE.
9. REMOVE ANY EXISTING WALL-MOUNTED ITEMS SUCH AS BOARDS. RETURN TO OWNER.
10. REMOVE EXISTING CONCRETE SLAB. REFER STRUCTURAL.
11. REMOVE CEILING FURRDOWN.
12. EXISTING FURRDOWN TO REMAIN.
13. ELECTRICAL EQUIPMENT TO REMAIN; REF. MEP DRAWINGS.



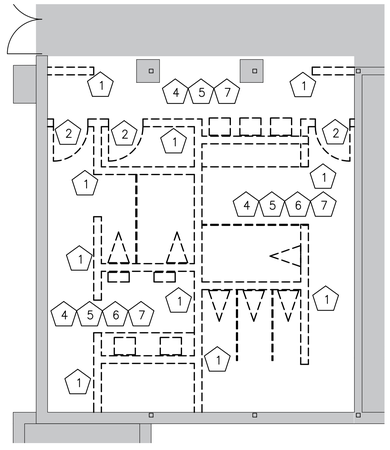
5 DEMOLITION PLAN
3/16" = 1"-0"



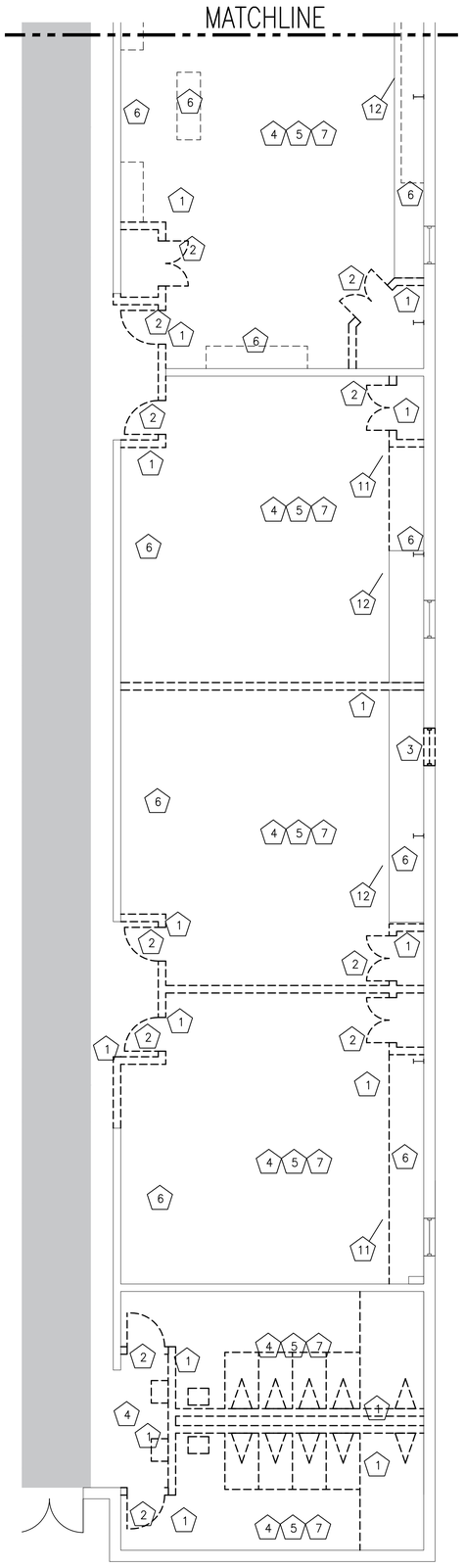
4 DEMOLITION PLAN
3/16" = 1"-0"



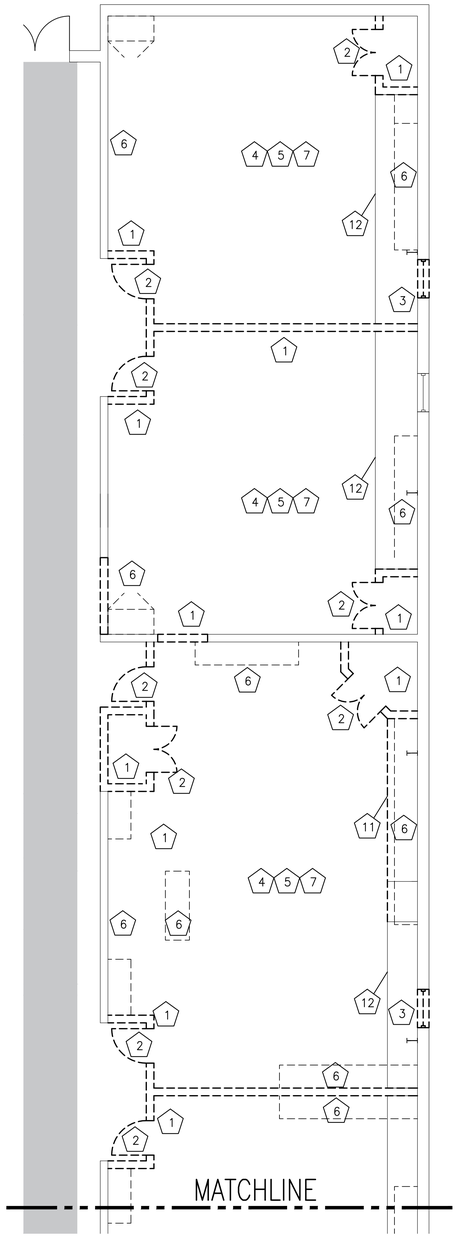
1 DEMOLITION PLAN
3/16" = 1"-0"



2 DEMOLITION PLAN
3/16" = 1"-0"



3 DEMOLITION PLAN
3/16" = 1"-0"



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EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	D-211-U

Revisions:

Sheet Title:

ENLARGED SCIENCE LAB DEMO PLANS

D-211-U

May 08, 2019 - 10:24am User: aluksa
P:\C&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-D-211U-Enl Demo Plans.dwg

1 OVERALL PLAN
3/32" = 1'-0"

May 08, 2019 – 11:00am User: aluksa
P:\C&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A-210U-Sci Labs floor plan.dwg

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REGISTERED ARCHITECT
RICHARD D. GIGNAC
STATE OF TEXAS
5295
EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

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PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	3/32"
ACAD File:	A-210-U

Revisions:

Sheet Title:

UNIV. CAMPUS OVERALL FLOOR PLAN

A-210-U

GENERAL CONSTRUCTION NOTES

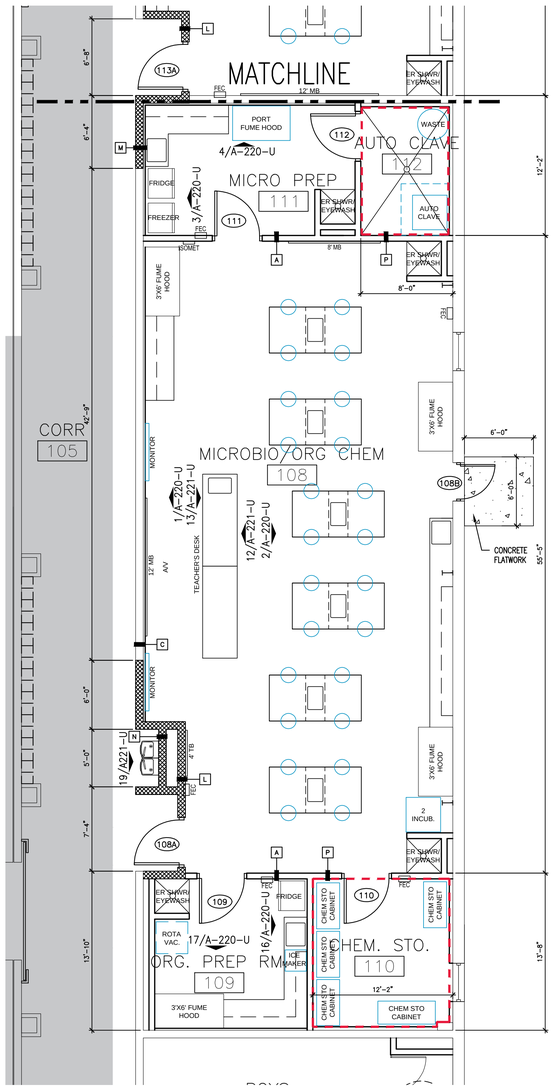
1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. TV MONITORS, MONITOR WALL BRACKETS, CEILING–MOUNTED PROJECTORS, REFRIGERATORS, FURNITURE & OTHER SCIENCE LAB EQUIPMENT ARE SHOWN FOR COORDINATION WITH MEP TRADES. THEY ARE NOT TO BE INCLUDED IN THE CONTRACT; THEY ARE TO BE PROVIDED BY THE OWNER & INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
4. EVERY BUILDING SHALL HAVE UP TO 3 PAINT ACCENTS IN ADDITION TO THE FIELD PAINT COLOR.
5. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

ROOM FINISH SCHEDULE

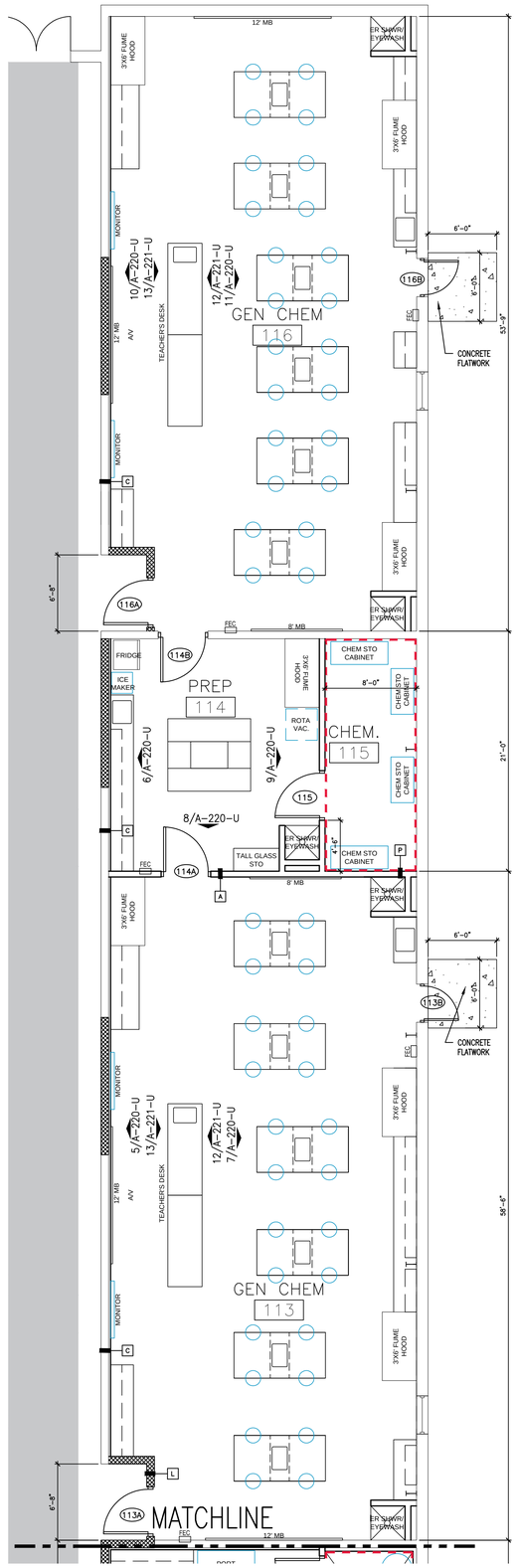
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
105	CORRIDOR	EXIST.	EXIST.	–	–	–	–	EXIST.	EXIST.	FINISHES ONLY REQUIRED WHERE NEW WALLS ARE PROPOSED.
108	MICRO/ORG. CHEM	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
109	ORGANIC PREP RM.	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
110	CHEM. STO.	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
111	MICROBIOLOGY PREP	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
112	AUTO CLAVE	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
113	GEN CHEM.	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
114	PREP ROOM	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
115	CHEM. STO.	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
116	GEN. CHEM.	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
117	PHYS. SCI. GEOLOGY	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
118	PREP RM.	LVT	RUBBER	PT	PT	PT	PT	PT	PT	
122	COMPUTER LAB	LVT	RUBBER	PT	PT	PT	PT	PT	PT	

DOOR SCHEDULE

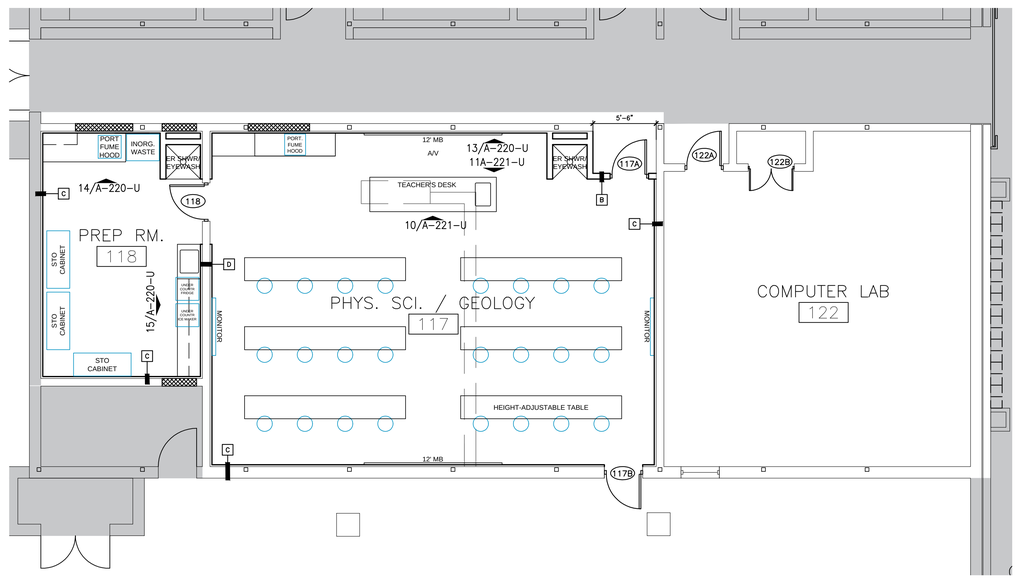
DOOR SCHEDULE	DOOR				FRAME		
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
108A	4'–0"	7'–0"	SNL	WOOD	A	HM	
108B	3'–0"	7'–0"	FL	HM	A	HM	FIELD VERIFICATION OF EXISTING OPENING REQUIRED.
109	4'–0"	7'–0"	SNL	WOOD	B	HM	
110	4'–0"	7'–0"	FL	WOOD	B	HM	1–HR. FIRE RATED.
111	4'–0"	7'–0"	SNL	WOOD	B	HM	
112	4'–0"	7'–0"	FL	WOOD	B	HM	1–HR. FIRE RATED.
113A	4'–0"	7'–0"	SNL	WOOD	A	HM	
113B	3'–0"	7'–0"	FL	WOOD	A	HM	FIELD VERIFICATION OF EXISTING OPENING REQUIRED.
114A	4'–0"	7'–0"	SNL	WOOD	B	HM	
114B	4'–0"	7'–0"	SNL	WOOD	A	HM	
115	4'–0"	7'–0"	FL	WOOD	B	HM	
116A	4'–0"	7'–0"	SNL	WOOD	A	HM	
116B	3'–0"	7'–0"	FL	HM	A	HM	FIELD VERIFICATION OF EXISTING OPENING REQUIRED.
117A	3'–0"	7'–0"	SNL	WOOD	B	HM	
117B	3'–0"	7'–0"	FL	HM	A	HM	FIELD VERIFICATION OF EXISTING OPENING REQUIRED.
118	3'–0"	7'–0"	SNL	WOOD	A	HM	
122A	3'–0"	7'–0"	SNL	WOOD	A	HM	FIELD VERIFICATION OF EXISTING OPENING REQUIRED.
122B	2' PAIR	7'–0"	FL	WOOD	A	HM	FIELD VERIFICATION OF EXISTING OPENING REQUIRED.



1 ENLARGED PLAN – MICROBILOGY/ORG. CHEM.
3/16" = 1'–0"



2 ENLARGED PLAN – GEN. CHEMISTRY
3/16" = 1'–0"



3 ENLARGED PLAN – PHYS. SCIENCE / GEOLOGY & COMPUTER LAB
3/16" = 1'–0"

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EXPIRATION DATE 11/30/2019

SIGNED: 05/10/2019

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-211-U

Revisions:

Sheet Title:

ENLARGED SCIENCE LAB PLANS

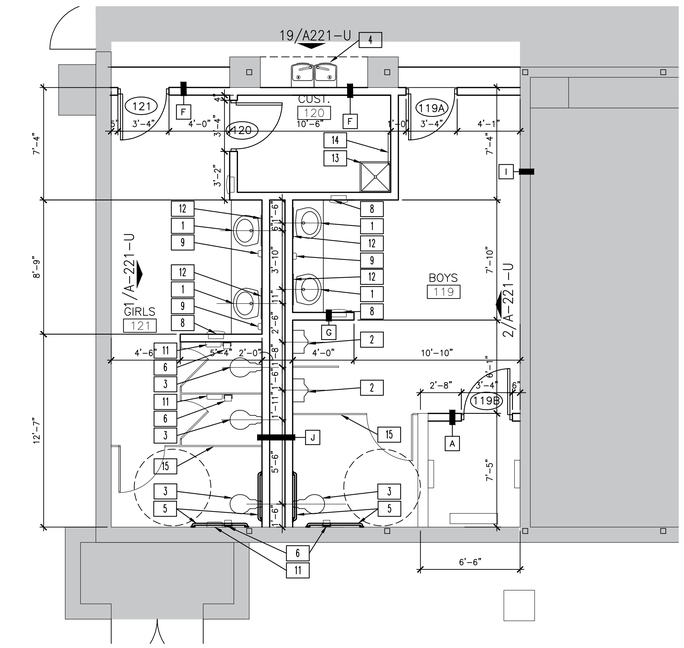
A-211-U

May 08, 2019 – 6:32pm User: aluksa
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A-211U-Enlg Plans.dwg

FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. PAPER TOWEL DISPENSER (FRONT APPROACH) & TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
8	8. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
9	9. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
10	10. SANITARY NAPKIN DISPENSER (MEASURED FROM FLOOR TO COIN SLOT)	STANDARD	
		ACCESSIBLE	45" MAX
11	11. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
12	12. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
13	13. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
14	14. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
15	15. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	
16	16. SHOWER STALL (ADA) TOP OF SEAT	ACCESSIBLE	17" TO 19"
	HAND SHOWER HEAD MOUNTING	ACCESSIBLE	48"
	CONTROL AREA (TOP OF)	ACCESSIBLE	48" MAX
17	17. ADA BENCH AS SPECIFIED. REFER TO MANUFACTURER'S RECOMMENDED HEIGHTS.		



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

GENERAL CONSTRUCTION NOTES

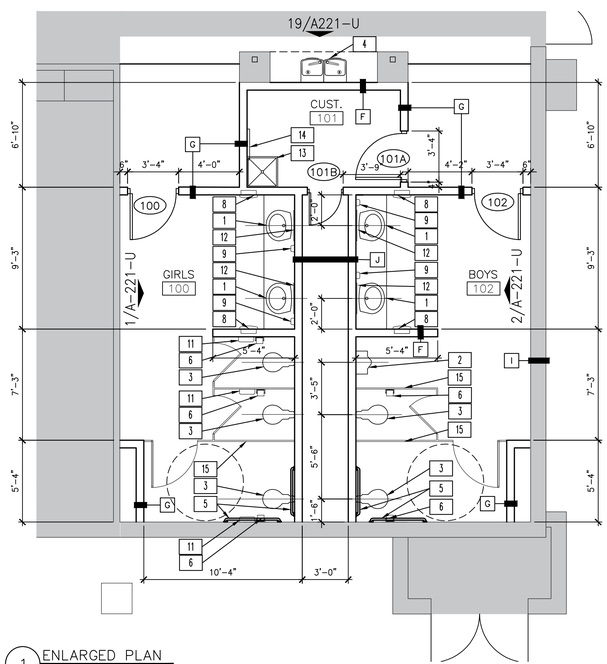
1. DEMOLITION AND PROPOSED WORK WILL HAVE TO BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTIONS TO THE CAMPUS, WHICH MAY BE IN USE.
2. TV MONITORS, MONITOR WALL BRACKETS, CEILING-MOUNTED PROJECTORS, REFRIGERATORS, FURNITURE & OTHER SCIENCE LAB EQUIPMENT ARE SHOWN FOR COORDINATION WITH MEP TRADES. THEY ARE NOT TO BE INCLUDED IN THE CONTRACT; THEY ARE TO BE PROVIDED BY THE OWNER & INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. ANY EXISTING WALLS TO REMAIN THAT REQUIRE REPAIR AFTER DEMOLITION IS COMPLETE, SHALL BE OBSERVED BY THE DESIGN TEAM AND OWNER PRIOR TO REPAIR. COORDINATION WILL BE REQUIRED.
4. EVERY BUILDING SHALL HAVE UP TO 3 PAINT ACCENTS IN ADDITION TO THE FIELD PAINT COLOR.
5. ANY OPENINGS IN EXISTING WALLS SCHEDULED TO BE INFILLED SHALL HAVE THE SAME MATERIAL AND FINISH AS THAT OF THE EXISTING WALL. ALL INFILLED OPENINGS SHALL BE FLUSH WITH EXISTING WALL SURFACES AND PAINTED.

ROOM FINISH SCHEDULE

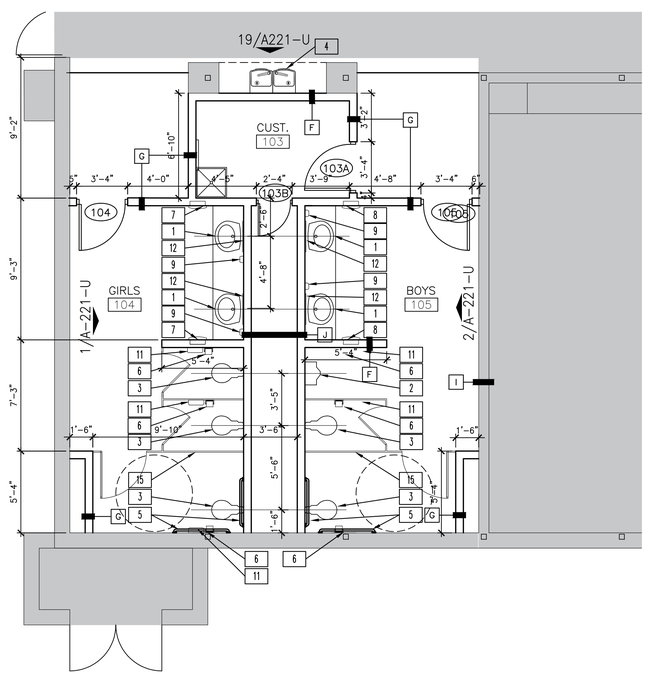
NUMBER	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	CLG HT.	NOTES
100	GIRLS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
101	CUSTODIAN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
102	BOYS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
103	CUSTODIAN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
104	GIRLS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
105	BOYS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
106	GIRLS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
107	BOYS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
119	BOYS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	CLOSET WALLS WITHIN 119 TO BE PAINTED AS WELL.
120	CUSTODIAN	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	
121	GIRLS	TILE	TILE	TILE/PT	TILE/PT	TILE/PT	TILE/PT	PTD GYP	8'-0"	

DOOR SCHEDULE

DOOR SCHEDULE	DOOR				FRAME		
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	
100	3'-0"	7'-0"	FL	WOOD	B	HM	
101A	3'-0"	7'-0"	FL	WOOD	B	HM	
101B	2'-0"	7'-0"	FL	WOOD	B	HM	
102	3'-0"	7'-0"	FL	WOOD	B	HM	
103A	3'-0"	7'-0"	FL	WOOD	B	HM	
103B	2'-0"	7'-0"	FL	WOOD	B	HM	
104	3'-0"	7'-0"	FL	WOOD	B	HM	
105	3'-0"	7'-0"	FL	WOOD	B	HM	
106	3'-0"	7'-0"	FL	WOOD	A	HM	
107	3'-0"	7'-0"	FL	WOOD	A	HM	
119	3'-0"	7'-0"	FL	WOOD	B	HM	
120A	3'-0"	7'-0"	FL	WOOD	B	HM	
120B	2'-0"	7'-0"	FL	WOOD	B	HM	
121	3'-0"	7'-0"	FL	WOOD	B	HM	
113	3'-0"	7'-0"	FL	WOOD	B	HM	



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



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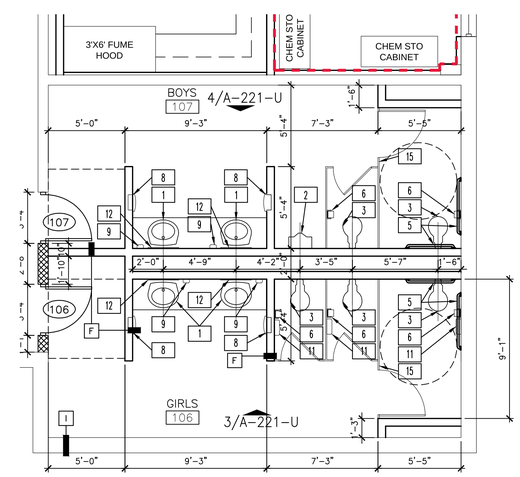
1/4" = 1'-0"



3 ENLARGED PLAN
1/4" = 1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
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222 E. VAN BUREN, SUITE 102
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3700 N. 10TH, SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RICHARD D. GIGNAC STATE OF TEXAS 5295
EXPIRATION DATE 11/30/2019
SIGNED: 05/10/2019

PSJA COLLEGE3 READY.CONNECTED.COMPLETE

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number: 19.04
Drawing Date: MAY 10, 2019
Drawn: AL
Checked: JM
Scale: 1/4" = 1'-0"
ACAD File: A-212-U

Revisions:

Sheet Title:

ENLARGED RESTROOM PLANS

A-212-U

May 08, 2019 – 6:37pm User: dluksa
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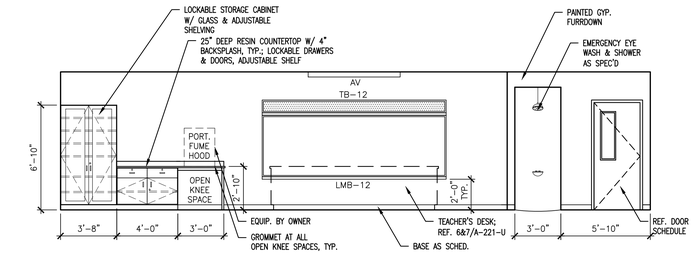

13 INTERIOR ELEVATION – PHY. SCIENCE / GEOLOGY 117
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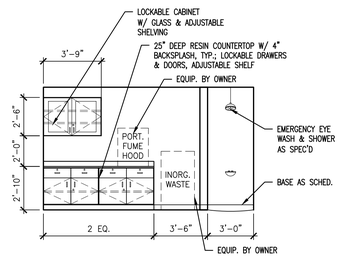

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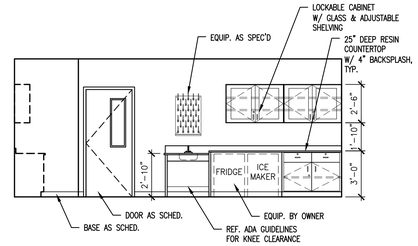

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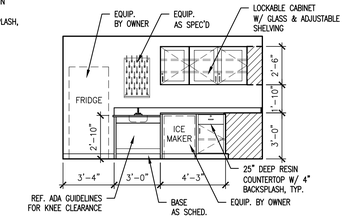

16 INTERIOR ELEVATION – 109
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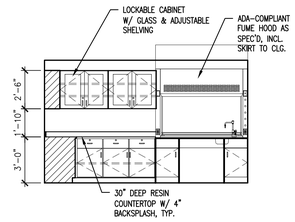
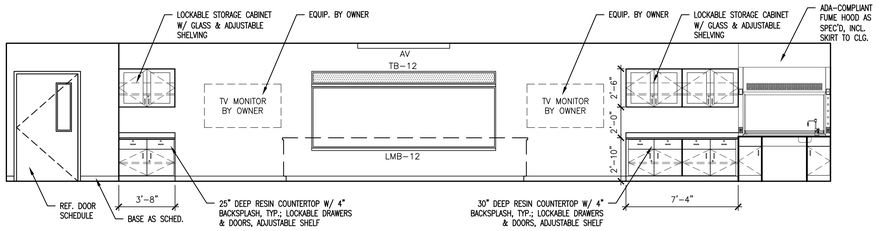


17 INTERIOR ELEVATION – 109
1/4" = 1'-0"



10 INTERIOR ELEVATION – GEN. CHEMISTRY 116
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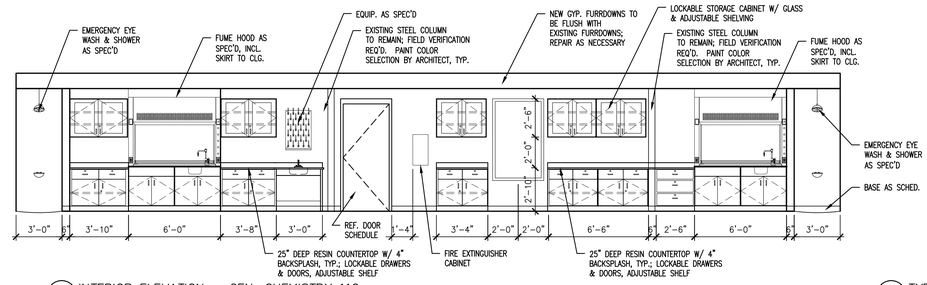

11 INTERIOR ELEVATION – GEN. CHEMISTRY 116
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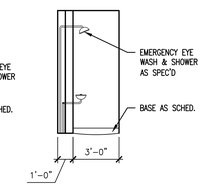
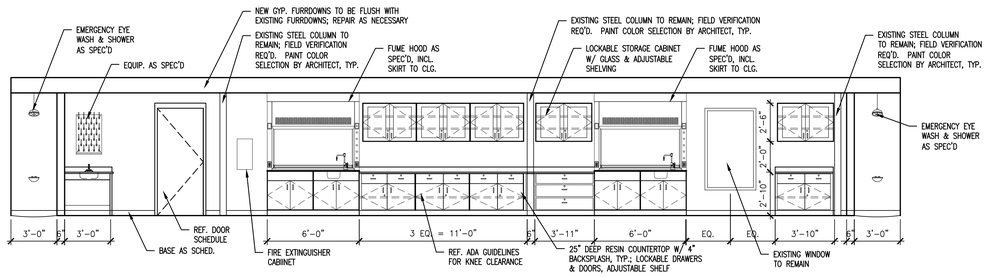


12 TYP. EMER. SHOWER/EYE WASH
1/4" = 1'-0"



7 INTERIOR ELEVATION – GEN. CHEMISTRY 113
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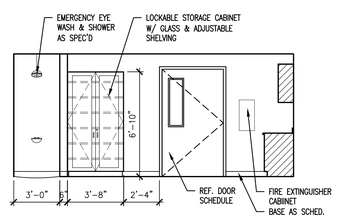
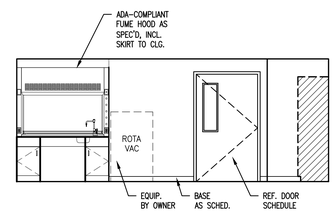
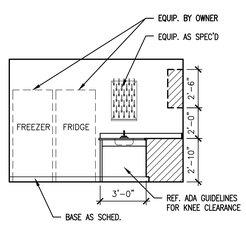


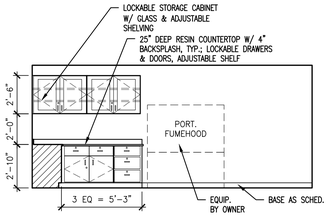
8 INTERIOR ELEVATION – 114
1/4" = 1'-0"



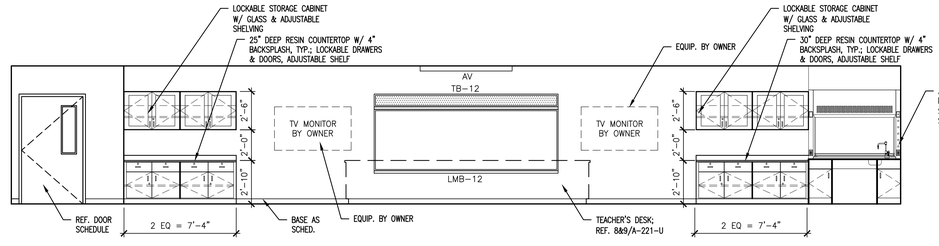
9 INTERIOR ELEVATION – 114
1/4" = 1'-0"



3 INTERIOR ELEVATION – 111
1/4" = 1'-0"



4 INTERIOR ELEVATION – 111
1/4" = 1'-0"



5 INTERIOR ELEVATION – GEN. CHEMISTRY 113
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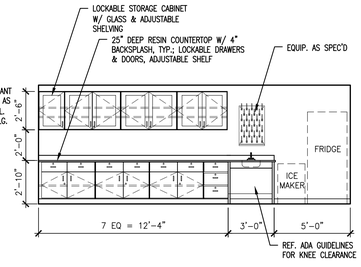
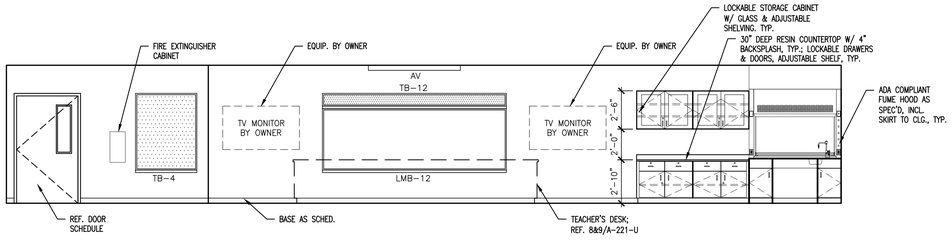
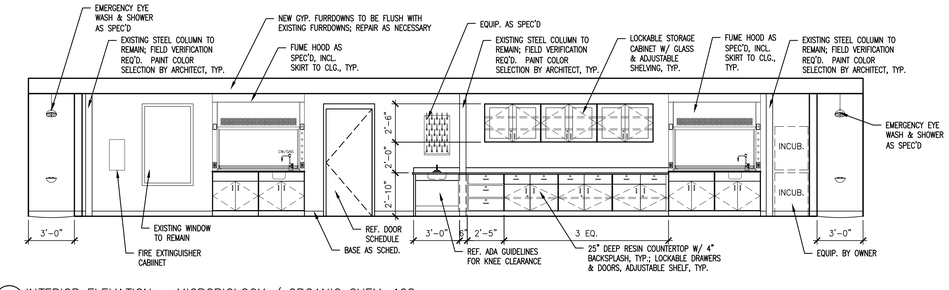


6 INTERIOR ELEVATION – 114
1/4" = 1'-0"



1 INTERIOR ELEVATION – MICROBIOLOGY / ORGANIC CHEM. 108
1/4" = 1'-0"



2 INTERIOR ELEVATION – MICROBIOLOGY / ORGANIC CHEM. 108
1/4" = 1'-0"

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F 956.622.7313

Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

REGISTERED ARCHITECT
RICHARD D. GIGNAC
STATE OF TEXAS
5295
EXPIRATION DATE
11/30/2019

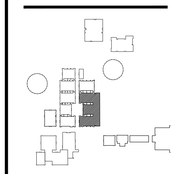
SIGNED: 05/10/2019

PSJA COLLEGE³ READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS



KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-220-U

Revisions:

Sheet Title:

SCIENCE LAB INTERIOR ELEVATIONS

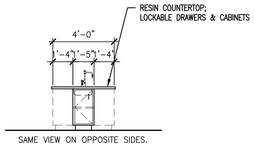
A-220-U

May 08, 2019 – 10:42am User: aluksa
P:\C&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A-220U-int elevs.dwg

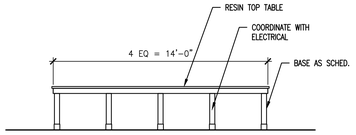
FIXTURE MOUNTING HEIGHT SCHEDULE

* REFER TO ADA GUIDELINES ON SHEET G-102.

			ADULTS
1	1. LAVATORIES/SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
2	2. URINALS (MEASURED FROM FLOOR TO RIM)	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
3	3. WATER CLOSETS (MEASURED FROM FLOOR TO TOP OF SEAT)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
4	4. DRINKING FOUNTAINS AND EWC's FRONTAL APPROACH (MEASURED FROM FLOOR TO SPOUT OUTLET)	STANDARD	42"
		ACCESSIBLE	36" MAX (27" MIN KNEESPACE)
5	5. GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR – 36" LONG @ REAR WALL & 42" LONG @ SIDE WALL OR 90 DEGRESS CONT. GRAB BAR WHERE INDICATED	STANDARD	
		ACCESSIBLE	33" TO 36" TO TOP OF GRAB BAR
6	6. TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
7	7. PAPER TOWEL DISPENSER (FRONT APPROACH) & TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
8	8. ELECTRIC HAND DRYER (MEASURED FROM FLOOR TO CENTER OF CONTROL)	STANDARD	48"
		ACCESSIBLE	45" MAX
9	9. SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
10	10. SANITARY NAPKIN DISPENSER (MEASURED FROM FLOOR TO COIN SLOT)	STANDARD	
		ACCESSIBLE	45" MAX
11	11. SANITARY NAPKIN DISPOSAL UNIT (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN & GIRLS)	STANDARD	40"
		ACCESSIBLE	
12	12. MIRRORS 1 MIRROR PER LAVATORY (NOT NOTED FOR CLARITY). MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE.	STANDARD	
		ACCESSIBLE	40" MAX
13	13. MOP BASIN / SERVICE SINK (ONE PER ROOM LABELED CUSTODIAN)		
14	14. MOP HOLDER (ONE PER ROOM LABELED CUSTODIAN)		48" MAX
15	15. TOILET PARTITION / URINAL SCREEN	NOT NOTED FOR CLARITY	
16	16. SHOWER STALL (ADA) TOP OF SEAT	ACCESSIBLE	17" TO 19"
	HAND SHOWER HEAD MOUNTING	ACCESSIBLE	48"
	CONTROL AREA (TOP OF)	ACCESSIBLE	48" MAX
17	17. ADA BENCH AS SPECIFIED. REFER TO MANUFACTURER'S RECOMMENDED HEIGHTS.		



17 STUDENT'S DESK AT 108, 113 & 116
1/4" = 1'-0"



18 STUDENT'S TABLE AT 117
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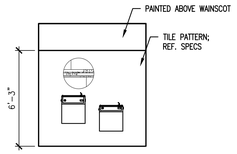

19 TYP. AT WATER COOLERS
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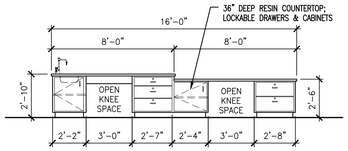

13 TEACHER'S DESK AT 108, 113 & 116
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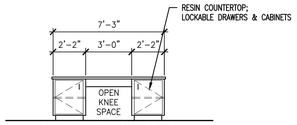

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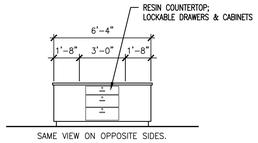
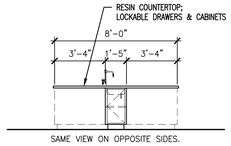
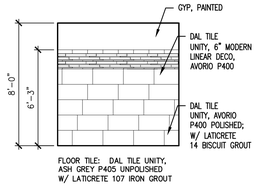


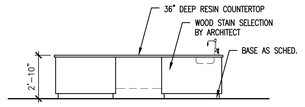
15 PREP TABLE AT 114
1/4" = 1'-0"



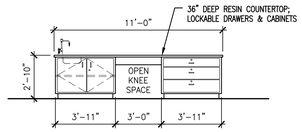
16 STUDENT'S DESK AT 108, 113 & 116
1/4" = 1'-0"



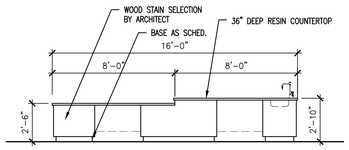
9 TYPICAL TILE PATTERN
1/4" = 1'-0"



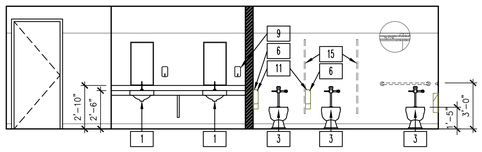
10 TEACHER'S DESK AT 117
1/4" = 1'-0"



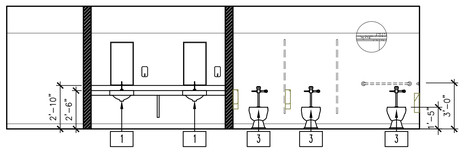
11 TEACHER'S DESK AT 117
1/4" = 1'-0"



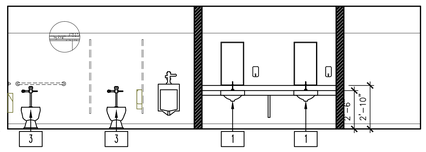
12 TEACHER'S DESK AT 108, 113 & 116
1/4" = 1'-0"



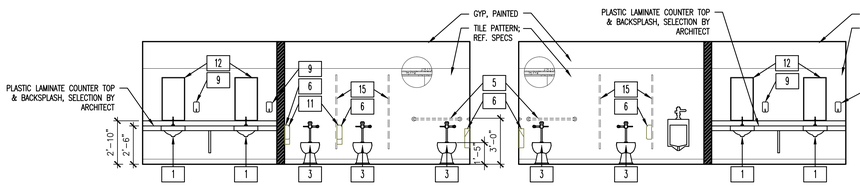
6 INTERIOR ELEVATION – GIRLS 121
1/4" = 1'-0"



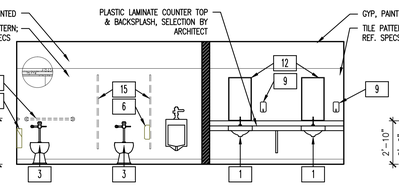
7 INTERIOR ELEVATION – GIRLS 106
1/4" = 1'-0"



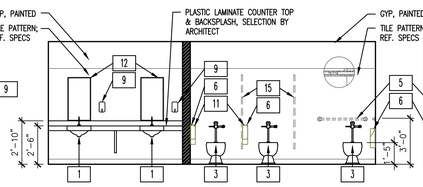
8 INTERIOR ELEVATION – BOYS 107
1/4" = 1'-0"



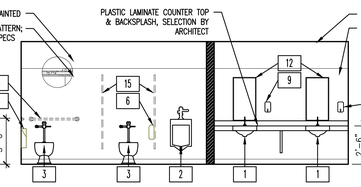
1 INTERIOR ELEVATION – GIRLS 100
1/4" = 1'-0"



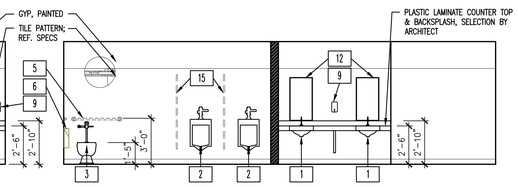
2 INTERIOR ELEVATION – BOYS 102
1/4" = 1'-0"



3 INTERIOR ELEVATION – GIRLS 104
1/4" = 1'-0"



4 INTERIOR ELEVATION – BOYS 105
1/4" = 1'-0"



5 INTERIOR ELEVATION – BOYS 119
1/4" = 1'-0"

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REGISTERED ARCHITECT RICHARD D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-221-U

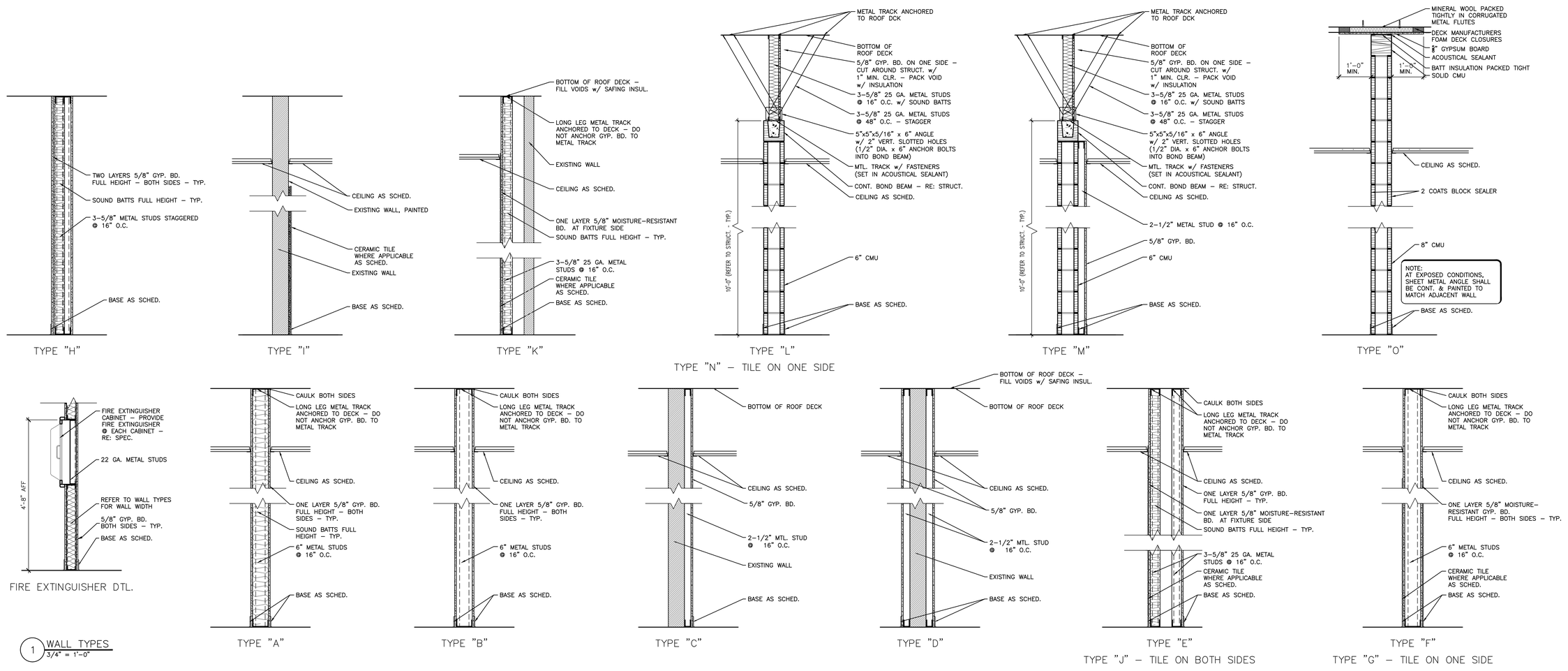
Revisions:

Sheet Title:

RESTROOM INTERIOR ELEVATIONS

A-221-U

May 08, 2019 – 5:41pm User: aluksa
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A-221U-RR int elevs.dwg



1 WALL TYPES
3/4" = 1'-0"

May 08, 2019 – 10:49am User: aluksa
P:\C&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A-230U-wall types.dwg

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MEP:
DBR ENGINEERING

REGISTERED ARCHITECT RICHARD D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

COLLEGE READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
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Scale:	VARIOUS
ACAD File:	A-230-U

Revisions:

Sheet Title:

DOORS/FRAME TYPES & WALL TYPES

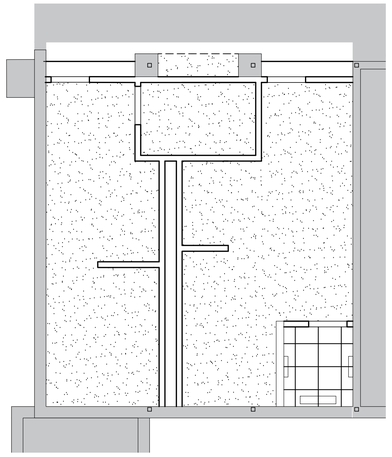
A-230-U

REFLECTED CEILING LEGEND

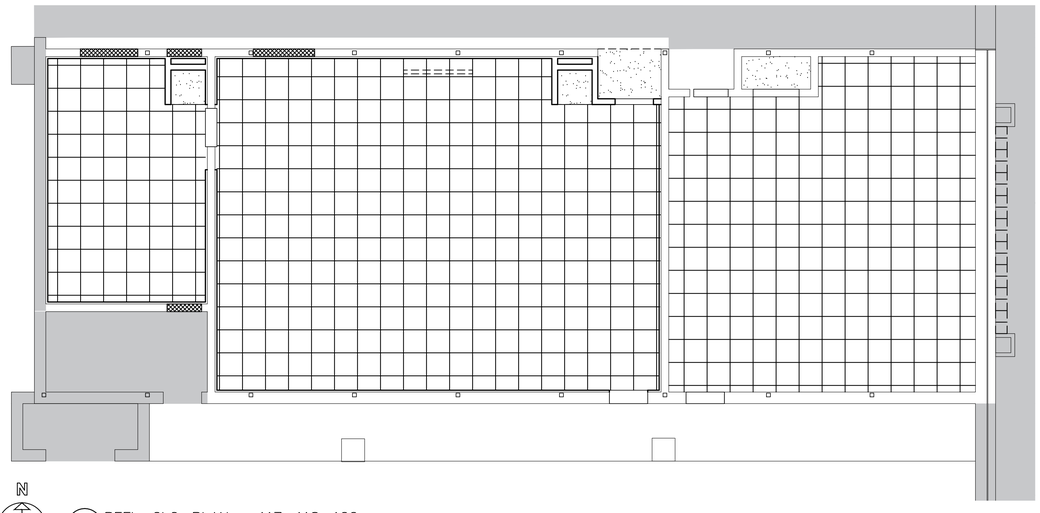
- 2 X 2 SUSPENDED ACOUSTICAL CEILING GRID
- PAINTED GYP. BOARD
- EXPOSED STRUCTURE, PAINTED
- PLASTER, LOCATE 1 - 36"x36" ACCESS PANEL @ ALL PLASTER CLGS.
- PLYWOOD AS SPEC. (PAINT)
- THIS AREA NOT IN SCOPE

REFLECTED CEILING NOTES:

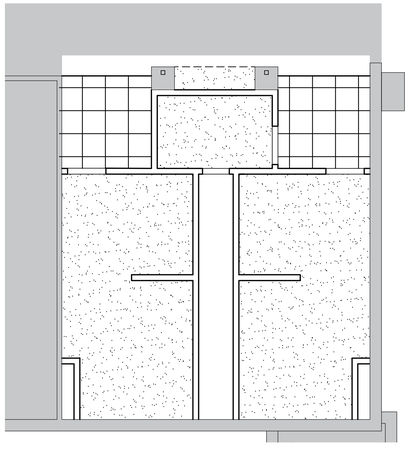
1. REFER TO MEP DRAWINGS FOR CEILING MOUNTED ITEMS.
2. ALL EXTERIOR SOFFITS TO BE REPAIR IF DAMAGED DURING THE DEMOLITION STAGE.
3. FIELD VERIFICATION OF EXISTING STRUCTURE AND COORDINATION WITH MEP DURING SUBMITTAL PROCESS SHALL BE REQUIRED IN ORDER TO ACHIEVE MAXIMUM CEILING HEIGHTS.
4. GYPSUM BOARD FURRDOWNS MAY BE 6" - 12" BELOW THE ACOUSTICAL SUSPENDED CEILING, BUT MUST BE AT LEAST 8'-0" AFF.
5. ALL 2X2 CEILING TILES TO BE RE-USED SHALL BE STORED TO REMAIN IN GOOD CONDITION FOR INSTALLATION.



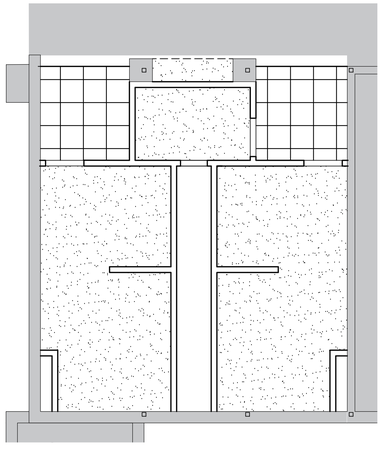
5 REFL. CLG. PLAN – 119, 120, 121
3/16" = 1"-0"



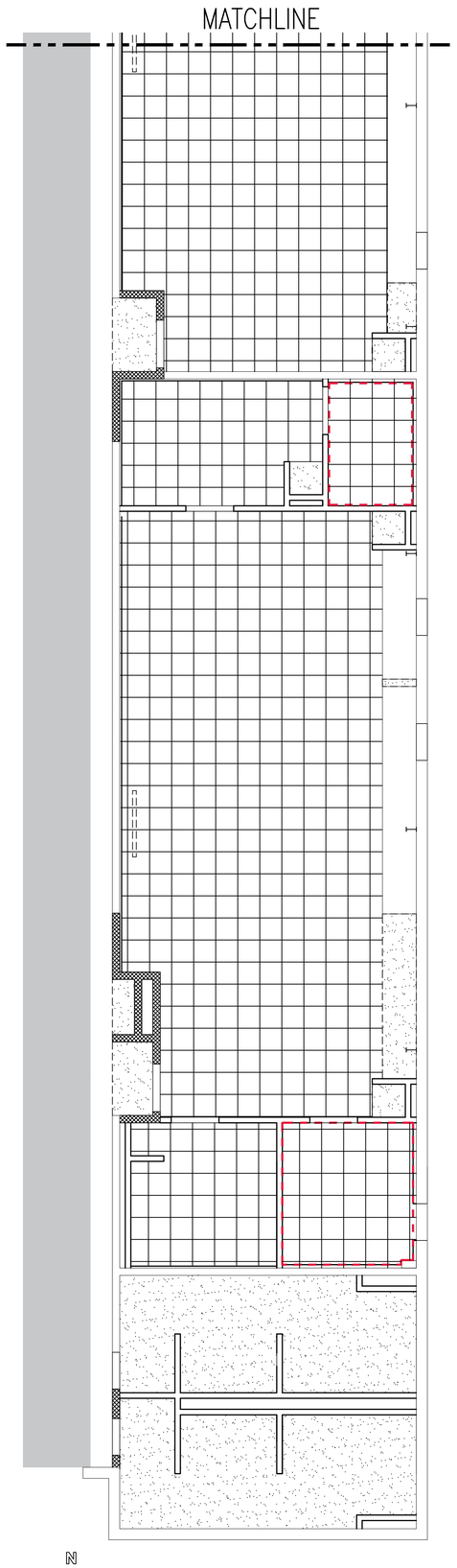
4 REFL. CLG. PLAN – 117, 118, 122
3/16" = 1"-0"



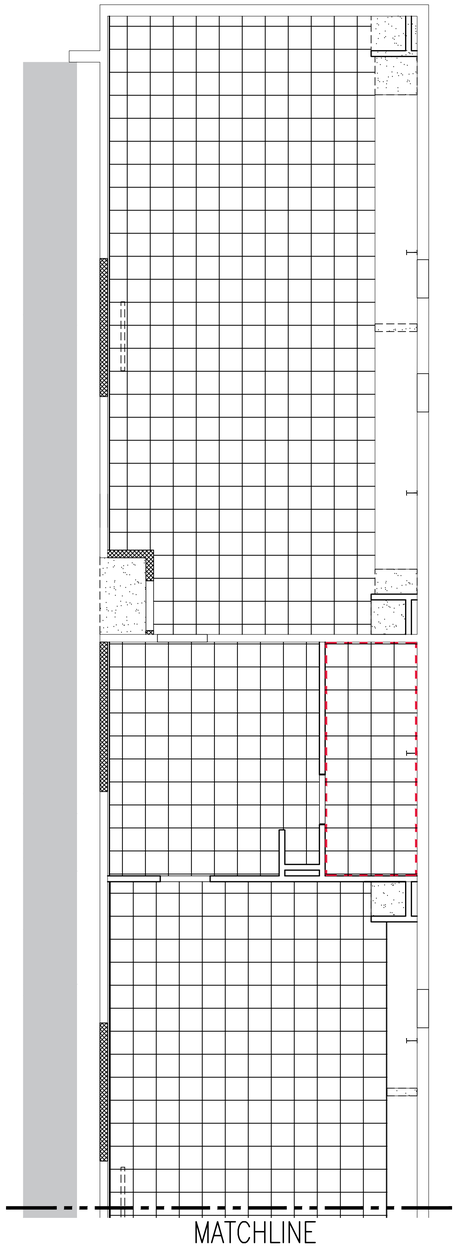
1 REFL. CLG. PLAN – 100, 101, 102
3/16" = 1"-0"



2 REFL. CLG. PLAN – 103, 104, 105
3/16" = 1"-0"



3 REFL. CLG. PLAN – EAST WING
3/16" = 1"-0"



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REGISTERED ARCHITECT RAYMOND D. GIGNAC STATE OF TEXAS 5295

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

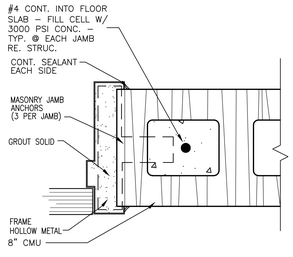
Revisions:

Sheet Title:

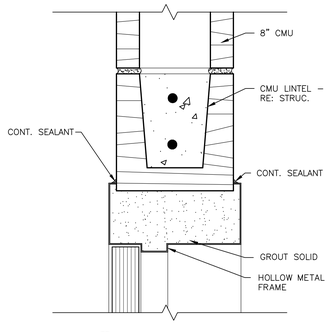
UNIV. CAMPUS RFELCTED CLG PLANS

A-240-U

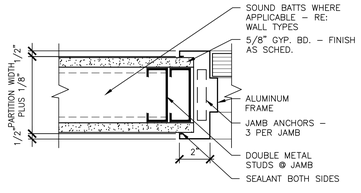
May 08, 2019 – 10:59am User: aluksa
P:\G&A Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A-240U-rcp.dwg



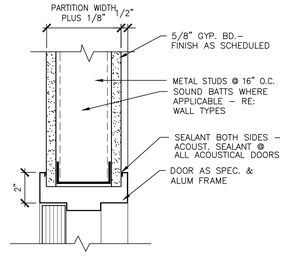
3 EXT. DOOR AT EXIST. HEADER
3" = 1'-0"



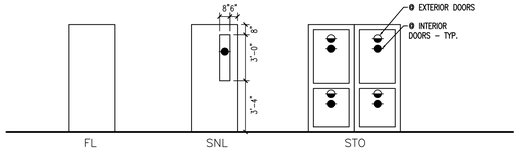
4 INT. DOOR AT CMU HEADER
3" = 1'-0"



5 INT. DOOR AT MTL STUD JAMB
3" = 1'-0"



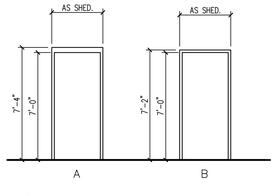
6 INT. DOOR AT MTL STUD HEADER
3" = 1'-0"



1 DOOR TYPES
1/4" = 1'-0"

GLAZING SCHEDULE

- GL-1: 1/4" CLEAR PLATE GLASS
- GL-2: 1/4" CLEAR TEMPERED GLASS
  1/4" FROSTED TEMPERED GLASS
- GL-3: 1-5/16" TINTED PLATE INSULATED LAMINATED GLASS



2 FRAME TYPES
1/4" = 1'-0"

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REGISTERED ARCHITECT RICHARD D. GIGNAC 5295 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

SIGNED: 05/10/2019

PSJA COLLEGE READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	MAY 10, 2019
Drawn:	AL
Checked:	JM
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ACAD File:	A-250-U

Revisions:

Sheet Title:

DOOR & WINDOW TYPES & DTLS.

A-250-U

May 08, 2019 – 10:56am User: aluksa
P:\GBA Projects\19.04 PSJA ECHS Restroom Renov\19.04 CAD\19.04-A-250U-door and window dtls.dwg

ABBREVIATIONS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AMERICAN REFRIGERANT INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT, AIR VENT
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB, BREAK TANK
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CON	CONVERTER
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINOUS, CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CRAC	COMPUTER ROOM A/C UNIT
CRT	CATHODE RAY TUBE
CT	COOLING TOWER
CTR	CENTER
CU	COPPER
CW	COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DOUBLE DUCT CONSTANT VOLUME, DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DESIG	DESIGNATION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DS	DOWNSPOUT, DOUBLE SUCTION
DV	DOUBLE DUCT VAV
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDF	ELECTRIC DRINKING FOUNTAIN
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR EMERGENCY ENCLOSURE
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ES	END SUCTION, EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE EXPANSION TANK
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION-PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDS	FIRE DEPARTMENT SIAMESE
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FL	FLOW LINES
FLR	FLOOR
FP	FIRE PUMP
FPT	FAN POWERED TERMINAL
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FSK	FLOOR SINK
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSH	GRAND SENSIBLE HEAT
GTH	GRAND TOTAL HEAT
GV	GATE VALVE

H

HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HE	HEAT EXCHANGER
HF	HUMIDIFIER
HORIZ	HORIZONTAL
HP	HORSEPOWER, HALON PANEL
HPU	HEAT PUMP UNIT
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWC	HOT WATER CIRCULATOR
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK

P

P	PUMP, PLUMBING EQUIPMENT
PC	PLUMBING CONTRACTOR
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE, POST HYDRANT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILL
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE, REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RKVA	RUNNING KILOVOLT-AMPS
RKW	RUNNING KILOWATTS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM, REFRIGERATION MACHINE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

S	STEAM
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAN	SANITARY SEWER
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SCR	SILICON CONTROLLED RECTIFIER
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SM	SHEETMETAL
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT

T

TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CONTROL COMPRESSOR
TD	TRENCH DRAIN
TF	TRANSFER FAN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL

U

U	URINAL
UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT, VENT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VR	VARIABLE AIR VOLUME REHEAT
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC
WT	WATERTIGHT, WEIGHT

Y

Y	YARD HYDRANT

Z

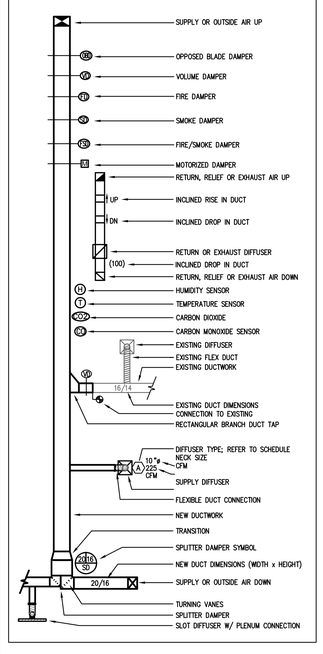
Z	ZONE

MECHANICAL PIPING SYMBOLS

CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CD	CONDENSATE DRAIN LINE
	CAP ON END OF PIPE
	ELBOW UP
	ELBOW DOWN
	VALVE IN DROP
	VALVE IN RISE
	DIRECTION OF FLOW
	DIRECTION OF SLOPE DOWN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TEE OUTLET UP
	TEE OUTLET DOWN
	UNION
	FLANGE
	PIPE ANCHOR
	EXPANSION JOINT
	PRESSURE AND TEMPERATURE TAP
	FLOW VENTURI
	VACUUM BREAKER
	VACUUM RELIEF VALVE
	BACKFLOW PREVENTOR
	THERMOMETER
	CIRCULATING PUMP

	STRAINER WITH BLOW DOWN VALVE
	GATE VALVE, HVAC BALANCING/STOP VALVE
	GLOBE VALVE
	BALL VALVE
	BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
	OS&Y VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	TWO-WAY MODULATING CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	GAS REGULATOR
	GAS COCK
FCS	SPRINKLER FLOOR CONTROL STATION
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	T&P RELIEF VALVE
	PRESSURE GAUGE WITH GAUGE COCK
	STEAM TRAP
	WATER METER
	FLEXIBLE CONNECTION

DUCTWORK SYMBOLS - NEW



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STUDENT RESTROOM RENOVATIONS

KEYPLAN

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MECHANICAL SYMBOLS AND ABBREVIATIONS

DBR
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TBPE Firm Registration No. 2234

DBR Project Number	198008.000

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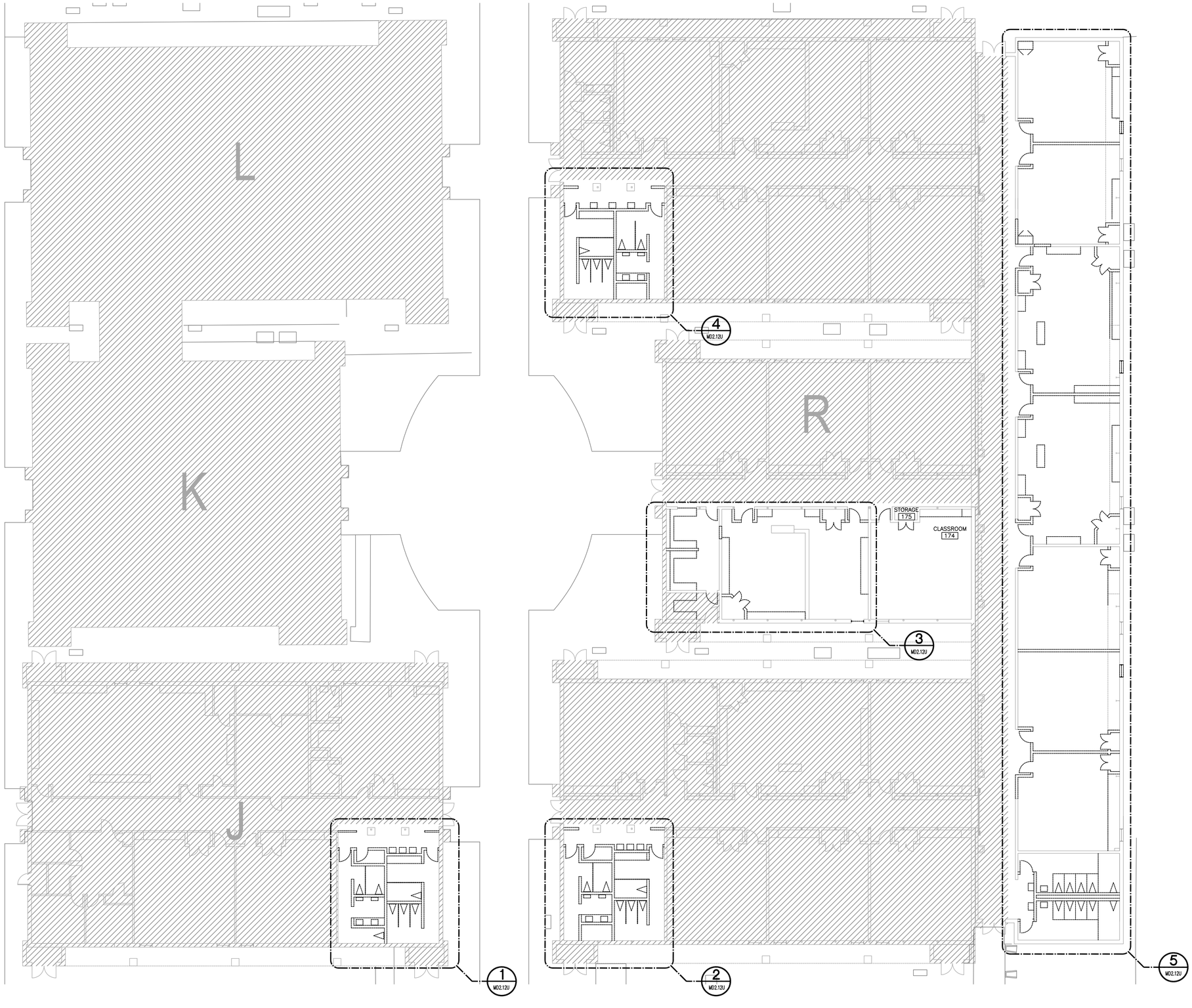

1 MD2.11U **MECHANICAL DEMOLITION PLAN - UNIVERSITY CAMPUS**

3/32"=1'-0"

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TBPE Firm Registration No. 2234

DBR Project Number	198008.000

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MD2.11U

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MECHANICAL GENERAL DEMO NOTES

A. COORDINATE DEMOLITION WORK WITH ELECTRICAL AND OTHER DISCIPLINES AS REQUIRED.

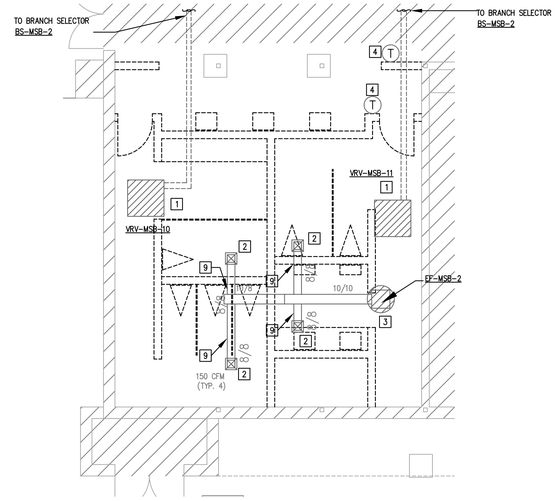
B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE DISCOVERED THE FULL SCOPE OF WORK INVOLVED WITH THE MODIFICATION OF THIS EXISTING SPACE. THE SCOPE OF THE WORK SHALL INCLUDE ALL MATERIALS FOR A COMPLETE INSTALLATION INCLUDING DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED TO ACCOMMODATE THE INDICATED REMODELING. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON THE DRAWINGS. ALL HVAC SHOWN ARE TAKEN FROM AS-BUILT HARDCOPY AND MUST BE FIELD VERIFIED.

C. WHEN AN EQUIPMENT IS IDENTIFIED TO BE REMOVED, THE OWNER HAS FIRST RIGHT OF REFUSAL BEFORE DISPOSING OF THAT EQUIPMENT. PROVIDE DISTRICT ONE WEEK NOTICE PRIOR TO DEMOLITION.

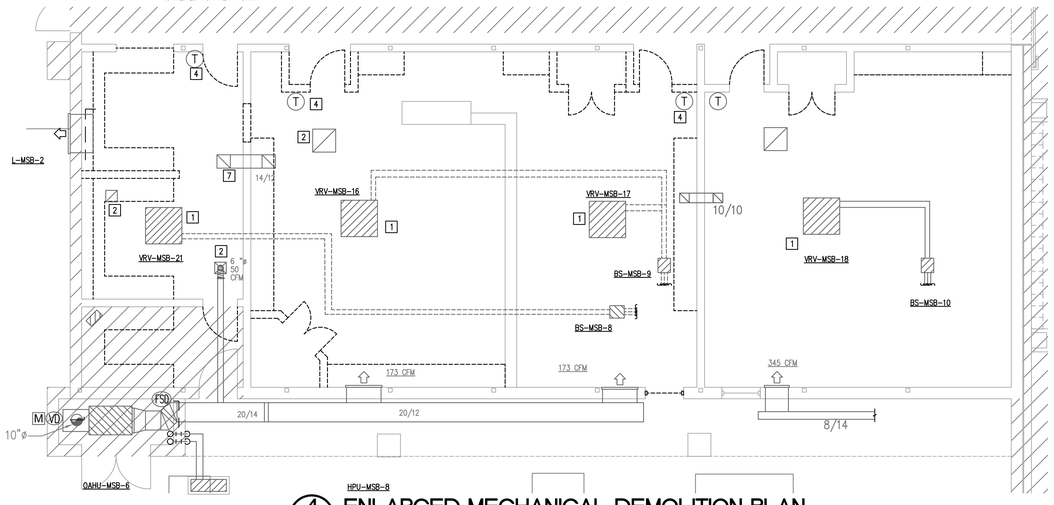
D. PROVIDE ALL NECESSARY CLEAR PATH TO MOVE DEMOLISHED EQUIPMENT OUT OF THE FACILITY AS WELL TO BRING NEW EQUIPMENT INTO THE BUILDING. MODIFY EXISTING PIPING, DUCTWORK CONDUITS, AS REQUIRED TO COMPLETE THE DEMOLITION.

MECHANICAL DEMO KEYED NOTES

1. EXISTING VRV UNIT SHALL BE RELOCATED TO NEW LOCATION. EXISTING ASSOCIATED REFRIGERANT PIPING, BRANCH SELECTOR, AND CONDENSATE PIPING SHALL REMAIN. CONTRACTOR SHALL DISCONNECT AND PUMP DOWN REFRIGERANT IN THE ASSOCIATED SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO M2.12U AND M2.13U FOR NEW WORK.
2. EXISTING AIR DEVICE SHALL BE REMOVED AND SALVAGED TO BE REUSED. TEMPORARILY SEAL DUCTWORK. REFER TO M2.12U AND M2.13U FOR NEW WORK.
3. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK SHALL REMAIN. REFER TO M2.12U AND M2.13U FOR NEW WORK TO EXISTING DUCTWORK.
4. EXISTING THERMOSTAT SHALL BE RELOCATED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF THERMOSTAT. REFER TO M2.12U AND M2.13U FOR NEW LOCATION.
5. EXISTING OAHU-MSB VRF UNIT SHALL BE REMOVED. REMOVE ASSOCIATED EQUIPMENT, DUCTWORK, CONTROLS, AND AIR DEVICES.
6. EXISTING VRF SYSTEM AND AIR DEVICES SHALL BE RELOCATED. DUCTWORK SHALL BE RELOCATED AND MODIFIED. EXISTING ASSOCIATED REFRIGERANT PIPING, BRANCH SELECTOR, AND CONDENSATE PIPING SHALL REMAIN. CONTRACTOR SHALL DISCONNECT AND PUMP DOWN REFRIGERANT IN THE ASSOCIATED SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO M2.12U FOR NEW SYSTEM LAYOUT AND NEW DUCTWORK MODIFICATIONS.
7. EXISTING TRANSFER DUCT SHALL BE REMOVED AND SALVAGED TO BE RELOCATED. REFER TO M2.12U FOR NEW WORK.
8. EXISTING TRANSFER DUCT SHALL BE REMOVED.
9. EXISTING BRANCH DUCTWORK SHALL BE REMOVED AND SALVAGED TO BE REUSED. CONTRACTOR SHALL SEAL AND INSULATE MAIN DUCTWORK. REFER TO M2.13U FOR NEW WORK AND NEW LOCATION ON MAIN DUCTWORK.
10. EXISTING VRV CASSETTE SHALL BE REMOVED. EXISTING ASSOCIATED REFRIGERANT PIPING, BRANCH SELECTOR, AND CONDENSATE PIPING SHALL REMAIN. CONTRACTOR SHALL DISCONNECT AND PUMP DOWN REFRIGERANT IN THE ASSOCIATED SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO M2.12U FOR NEW WORK.



5 MD2.12U ENLARGED MECHANICAL DEMOLITION PLAN
3/16"=1'-0"



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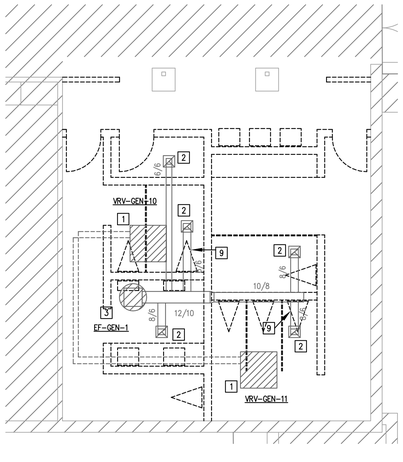

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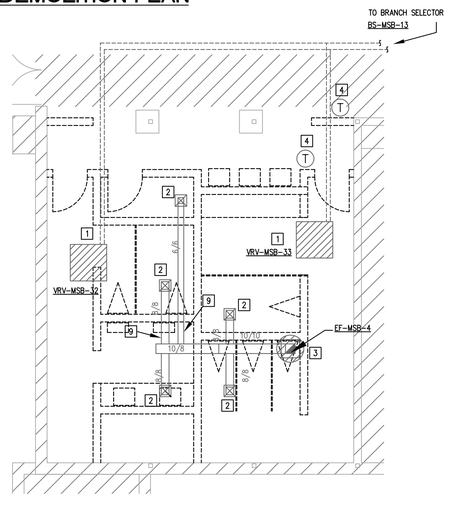

2 MD2.12U ENLARGED MECHANICAL DEMOLITION PLAN
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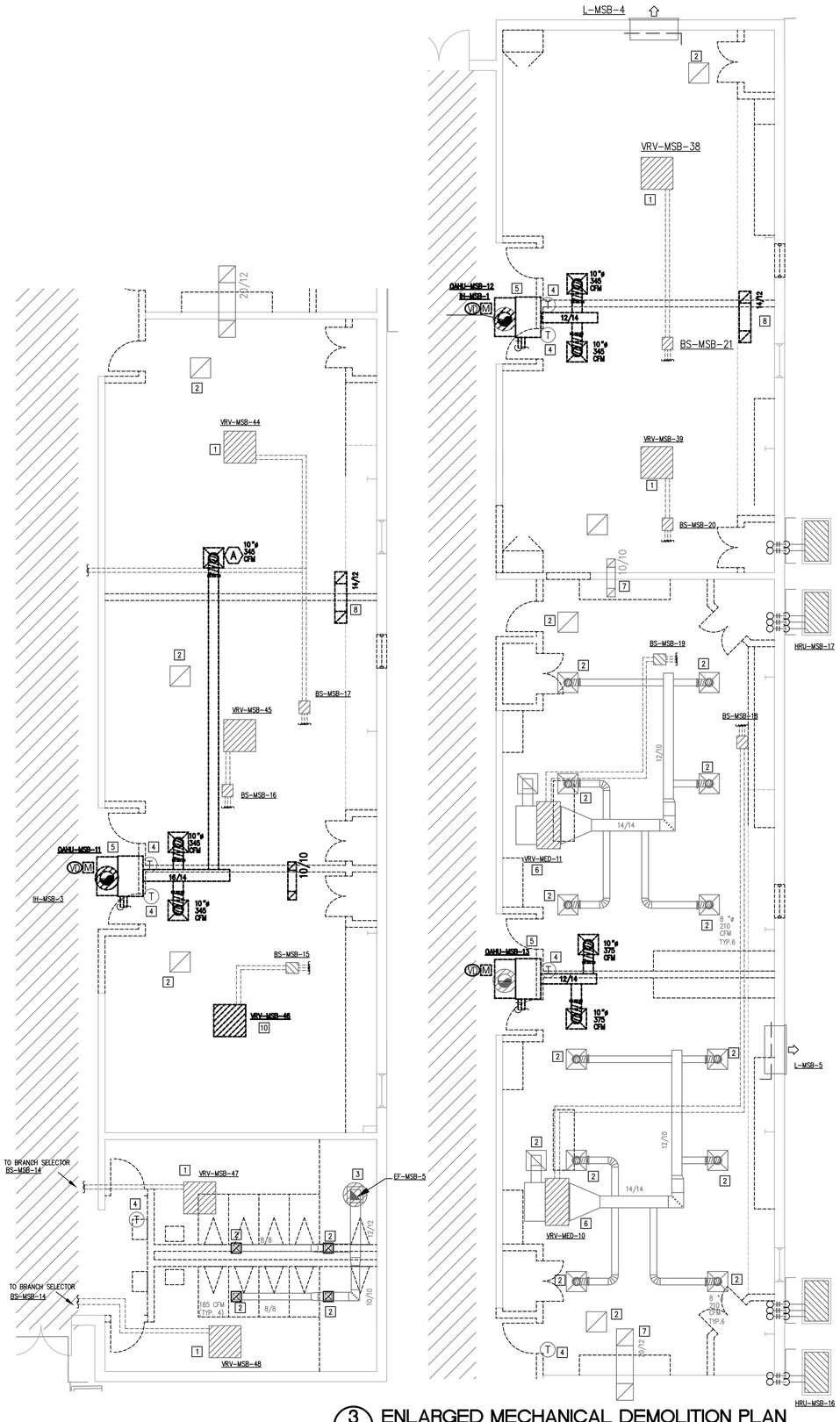

3 MD2.12U ENLARGED MECHANICAL DEMOLITION PLAN
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KEYPLAN

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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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1 M2.11U **MECHANICAL PLAN - UNIVERSITY CAMPUS**
3/32"=1'-0"

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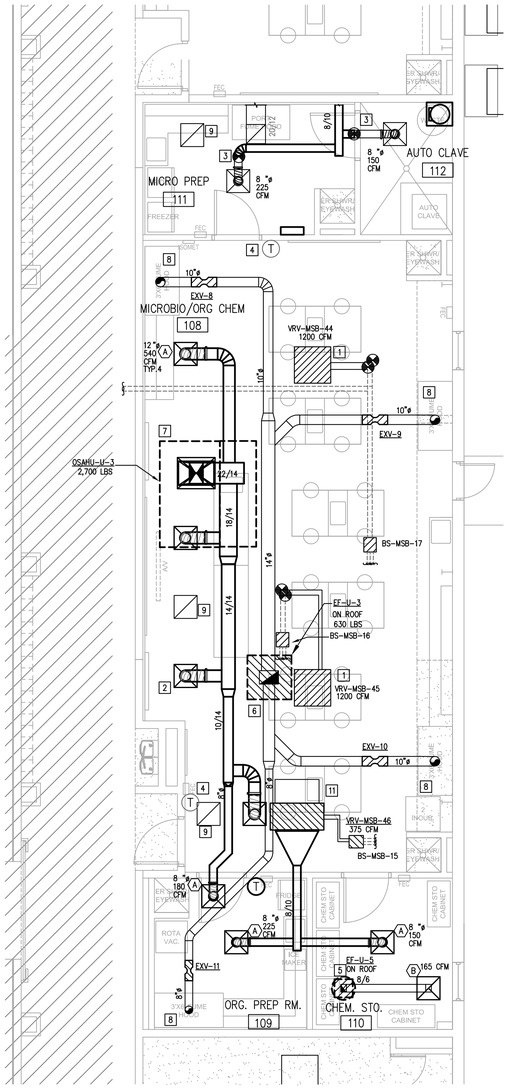

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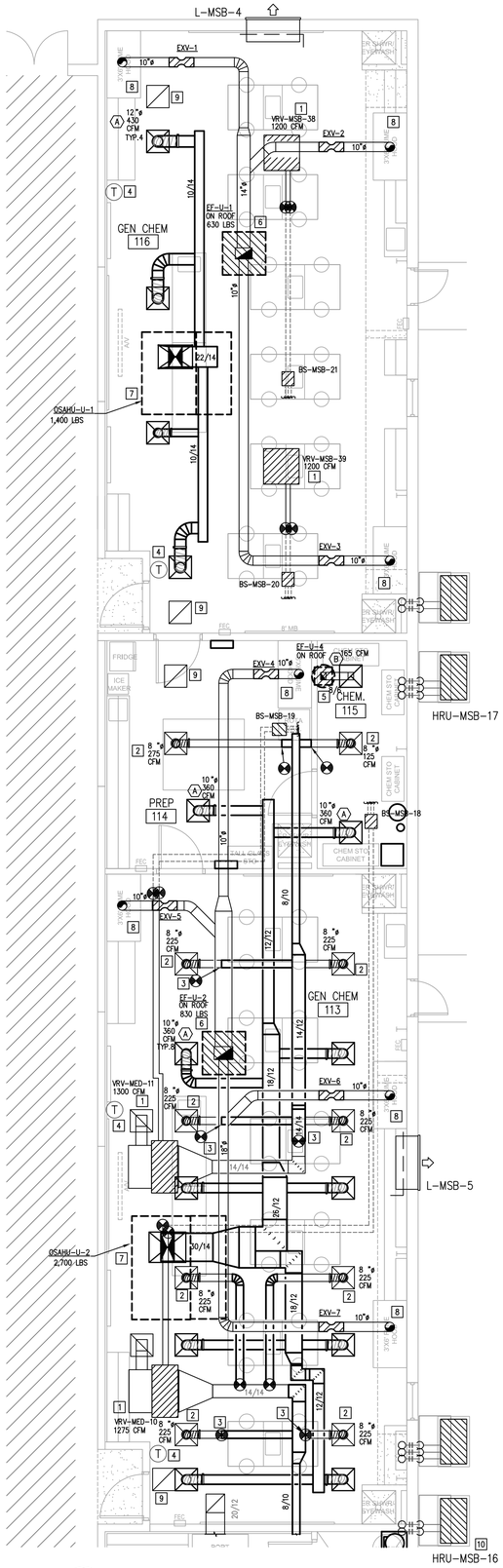

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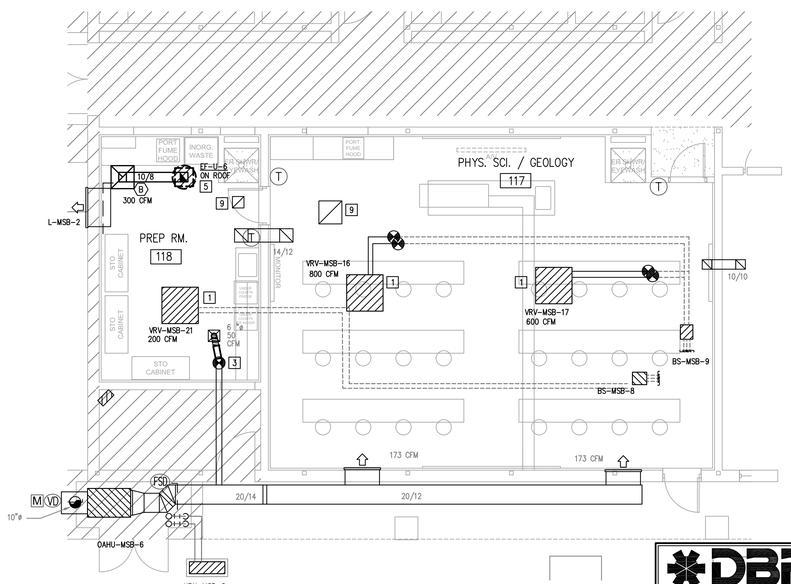

3 M2.12U ENLARGED MECHANICAL PLAN
3/16"=1'-0"

GENERAL MECHANICAL NOTES

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT COMPLETE MECHANICAL SYSTEMS BE FURNISHED, INSTALLED, TESTED, AND READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.

B. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER'S DRAWINGS AND CUT SHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF HOUSEKEEPING PADS.

C. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET IN TOTAL LENGTH.

D. ALL DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR LOW PRESSURE DUCTWORK.

E. EXACT LOCATION OF GRILLES AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.

F. DIVISION 23 MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.

G. PROVIDE INSULATION FOR ALL PIPING AND DUCTWORK THAT MEETS THE LATEST EDITION OF IECC.

H. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL NEW 90 DEGREE ELBOWS.

I. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.

J. ALL SUPPLY AIR TAPS TO DIFFUSERS AND GRILLES SHALL BE SUPPLIED WITH MANUAL VOLUME DAMPERS. PROVIDE YOUNG'S REGULATORS FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.

K. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

MECHANICAL KEYED NOTES

1 NEW LOCATION OF RELOCATED VRV UNIT. CONTRACTOR SHALL EXTEND WITH NEW REFRIGERANT AND CONNECT TO CORRESPONDING REFRIGERANT PIPING. EXTEND WITH NEW CONDENSATE PIPING TO EXISTING CONDENSATE PIPING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF CONDENSATE PIPING. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ALL CEILING DEVICES. SUPPORT FROM STRUCTURE ABOVE.

2 NEW LOCATION OF SALVAGED AIR DEVICE. EXTEND WITH NEW DUCTWORK AS REQUIRED TO NEW LOCATION. BALANCE TO CFM AS NOTED ON PLAN.

3 CONNECT NEW DUCTWORK TO RELOCATED DUCTWORK. SIZE AS NOTED ON PLAN.

4 NEW LOCATION OF THERMOSTAT. MOUNT 48" A.F.F. COORDINATE EXACT HEIGHT AND LOCATIONS WITH OWNER AND ARCHITECT.

5 PROVIDE EXHAUST FAN ON ROOF AS SCHEDULED WITH PREFABRICATED ROOF CURB. ROUTE DUCTWORK UP AND TRANSITION AS REQUIRED. COORDINATE ROUTING WITH ALL DISCIPLINES AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. RE: DETAIL 7/M4.01U.

6 PROVIDE FUME HOOD EXHAUST FAN ON ROOF AS SCHEDULED. ROUTE EXHAUST DUCT UP THROUGH ROOF. COORDINATE ROUTING WITH ALL DISCIPLINES AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. RE: DETAIL 6/M4.01U.

7 PROVIDE PACKAGED 100% OUTSIDE AIR UNIT ON ROOF. ROUTE DUCTWORK UP THROUGH ROOF. COORDINATE ROUTING WITH ALL DISCIPLINES AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. RE: DETAIL 12/M4.01U.

8 ROUTE FUME HOOD EXHAUST DUCT TO FUME HOOD COLLAR. TRANSITION AS REQUIRED. SIZE AS NOTED ON PLAN.

9 NEW LOCATION OF SALVAGED AIR DEVICE.

10 REFER TO M6.01U FOR NEW REFRIGERANT PIPE CHARGE.

11 PROVIDE NEW VRV FAN COIL UNIT AS SCHEDULED ON M6.01U TAG VRV-MSB-46. CONNECT AND ROUTE REFRIGERANT PIPING TO EXISTING BRANCH SELECTOR. ROUTE CONDENSATE TO EXISTING CONDENSATE PIPING. SUSPEND FROM STRUCTURAL ABOVE.

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
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Drawn:	AL
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ACAD File:	A-240-U

Revisions:

Sheet Title:

COMPOSITE MECHANICAL PLAN - UNIV. CAMPUS

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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

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M2.12U

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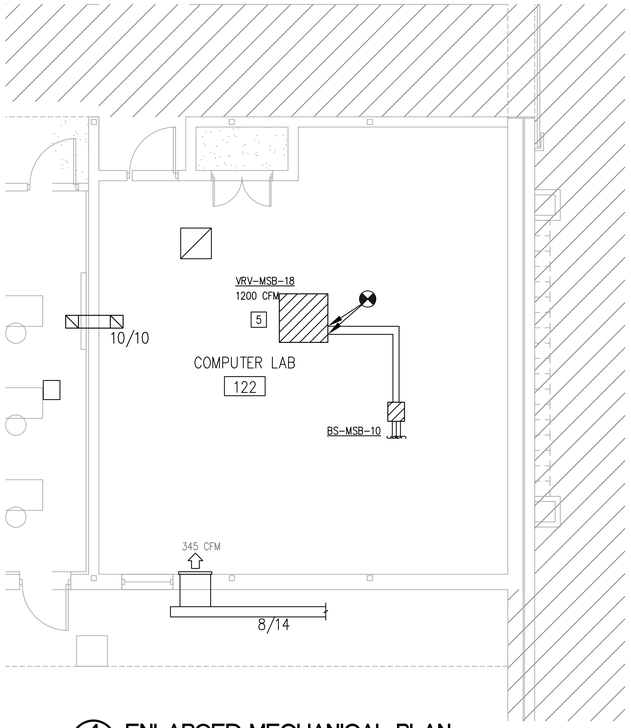
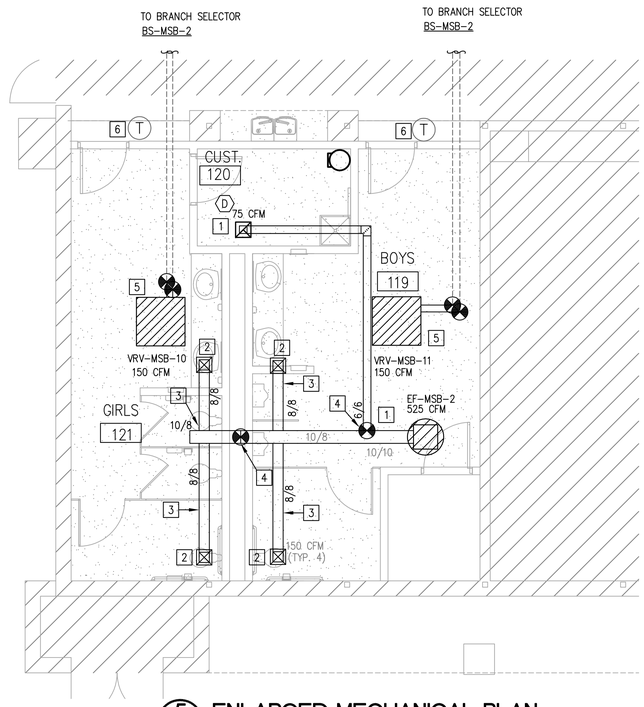


4 M2.13U **ENLARGED MECHANICAL PLAN**
1/4"=1'-0"



5 M2.13U **ENLARGED MECHANICAL PLAN**
1/4"=1'-0"

GENERAL MECHANICAL NOTES

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT COMPLETE MECHANICAL SYSTEMS BE FURNISHED, INSTALLED, TESTED, AND READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.

B. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER'S DRAWINGS AND CUT SHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF HOUSEKEEPING PADS.

C. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET IN TOTAL LENGTH.

D. ALL DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR LOW PRESSURE DUCTWORK.

E. EXACT LOCATION OF GRILLES AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.

F. DIVISION 23 MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.

G. PROVIDE INSULATION FOR ALL PIPING AND DUCTWORK THAT MEETS THE LATEST EDITION OF IECC.

H. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL NEW 90 DEGREE ELBOWS.

I. ALL CEILING MOUNTED AND WALL MOUNTED AIR DEVICES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.

J. ALL SUPPLY AIR TAPS TO DIFFUSERS AND GRILLES SHALL BE SUPPLIED WITH MANUAL VOLUME DAMPERS. PROVIDE YOUNG'S REGULATORS FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.

K. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

MECHANICAL KEYED NOTES

1 PROVIDE NEW AIR DEVICE AS SCHEDULED. EXTEND WITH NEW DUCTWORK AS REQUIRED AND CONNECT TO EXISTING DUCTWORK. COORDINATE FINAL LOCATION OF AIR DEVICE WITH LIGHTS. BALANCE TO CFM INDICATED ON PLAN.

2 NEW LOCATION OF SALVAGED AIR DEVICE. CONNECT TO DUCTWORK. BALANCE TO CFM INDICATED ON PLAN.

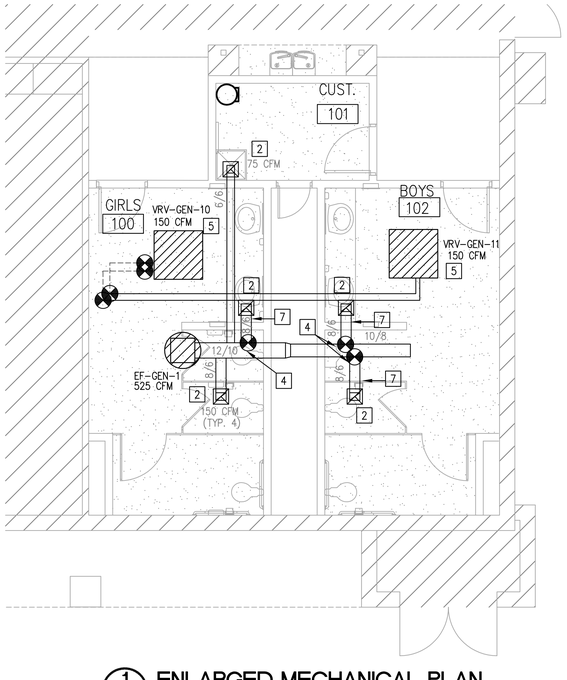
3 REINSTALL SALVAGED DUCTWORK AND EXTEND WITH NEW DUCTWORK AS REQUIRED TO NEW LOCATION OF RELOCATED AIR DEVICE AND DUCTWORK. SIZE AS NOTED ON PLAN.

4 CONNECT TO EXISTING DUCTWORK.

5 NEW LOCATION OF RELOCATED VRV UNIT. CONTRACTOR SHALL EXTEND WITH NEW REFRIGERANT AND CONNECT TO CORRESPONDING REFRIGERANT PIPING. COORDINATE EXACT LOCATION WITH ALL CEILING DEVICES. SUPPORT FROM STRUCTURE ABOVE.

6 NEW LOCATION OF THERMOSTAT. MOUNT 48" A.F.F. COORDINATE EXACT HEIGHT AND LOCATIONS WITH OWNER AND ARCHITECT.

7 SHORTEN AND REINSTALL SALVAGED DUCTWORK AS REQUIRED TO NEW LOCATION OF RELOCATED AIR DEVICE. SIZE AS NOTED ON PLAN.



1 M2.13U **ENLARGED MECHANICAL PLAN**
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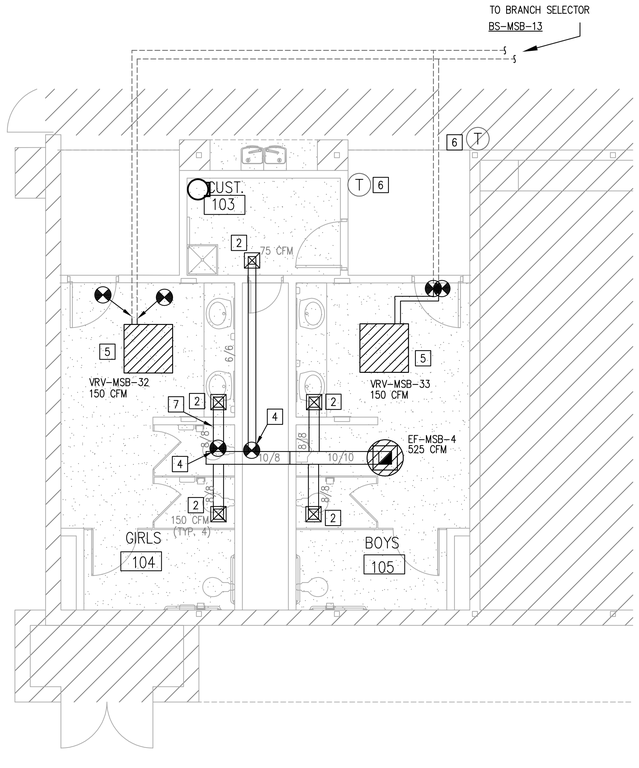
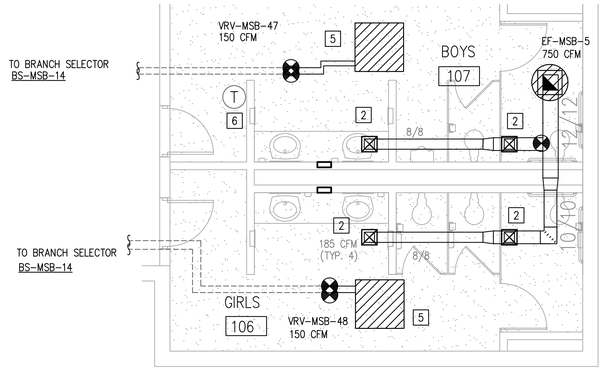


2 M2.13U **ENLARGED MECHANICAL PLAN**
1/4"=1'-0"



3 M2.13U **ENLARGED MECHANICAL PLAN**
1/4"=1'-0"

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COMPOSITE MECHANICAL DEMO PLAN - UNIV. CAMPUS

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TBPE Firm Registration No. 2234

DBR Project Number	198008.000
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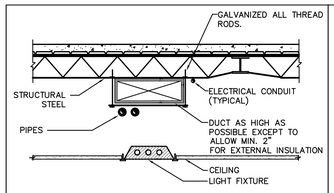
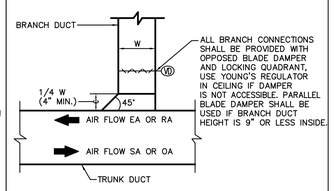


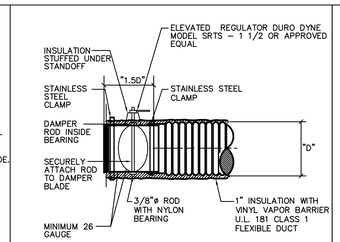
NOTES:
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

1 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



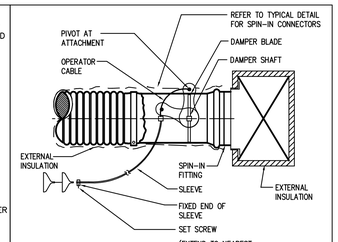
NOTE: THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

2 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE



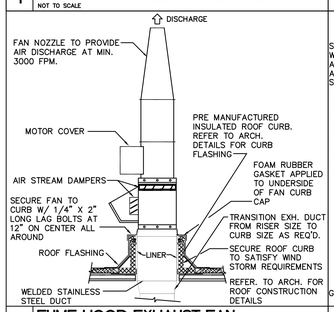
NOTE: 1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5 X ("D") MINIMUM 3'–0" AND MAXIMUM 6'–0"
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS
3. ALL JOINTS SHALL BE SEALED WITH MASTIC AND FIBER CLOTH PER SPECIFICATIONS.

4 SPIN-IN DETAIL
NOT TO SCALE

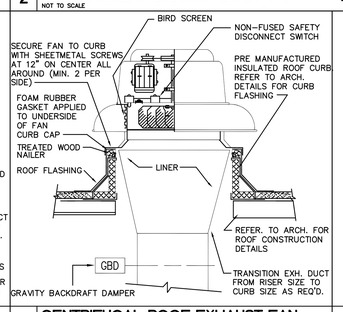


NOTE: MOUNT OPERATOR CRANK AND CABLE PLATFORM ON TOP OF EXTERNAL INSULATION AT DAMPER.

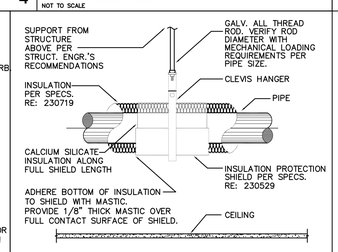
5 REMOTE SPIN-IN DAMPER OPERATOR
NOT TO SCALE



6 FUME HOOD EXHAUST FAN
NOT TO SCALE

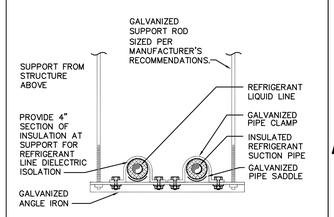


7 CENTRIFUGAL ROOF EXHAUST FAN
NOT TO SCALE MEFA100.DWG



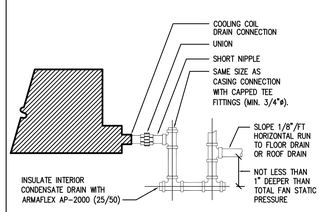
NOTE:
CONTRACTOR SHALL SECURE STRUCT. ENGR. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS TO CONCRETE OR STEEL STRUCTURE. CONTRACTOR SHALL CONFORM TO ALL MAXIMUM SPAN DISTANCES PER SPECIFICATIONS FOR HANGER SPACING. RE: 230529

8 PIPE HANGER DETAIL (1-PIPE)
NOT TO SCALE MPHS102.DWG



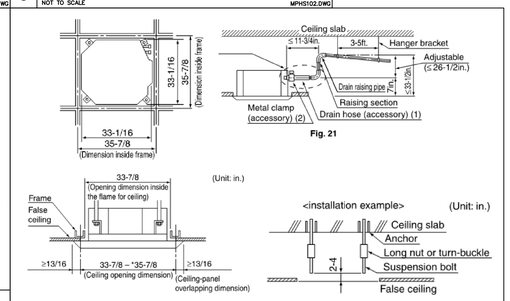
NOTE: PROVIDE SUPPORTS AT 3'–0" ON CENTER MAX. AND WITHIN 1'–0" OF ALL CHANGES IN PIPE DIRECTION.

9 REFRIGERANT PIPE HANGER
NOT TO SCALE MPRE201.DWG

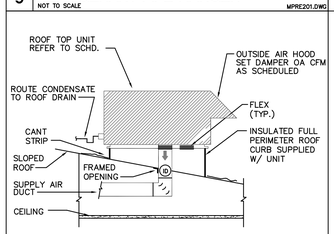


NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR DRAIN OR ROOF DRAIN.
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

10 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE MPCE300.DWG



11 CEILING MOUNTED FAN COIL UNIT (VRV CASSETTE)



NOTES:
1. REFER TO ARCH. FOR ROOF & FLASHING DETAILS
2. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE IRON SCREWED FITTINGS.

12 ROOF TOP UNIT MOUNTED ON SLOPED ROOF
NOT TO SCALE MERT102.DWG

1 / M4.01U MECHANICAL DETAILS AND SCHEDULES
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MECHANICAL DETAILS AND SCHEDULES

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FAN SCHEDULE

MARK	EF-U-1	EF-U-2	EF-U-3	EF-U-4	EF-U-5	EF-U-6
SERVES	FUME HOODS	FUME HOODS	FUME HOODS	CHEM STO.115	CHEM STO.110	PREP RM 118
CFM	2,400	3,200	2,400	165	165	300
E.S.P. (IN W.G.)	2.5	2.5	2.5	0.375	0.375	0.375
TYPE	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
DIRECT/BELT DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
FAN RPM	2,087	1,783	2,087	1,725	1,725	1,725
MOTOR HORSEPOWER	2	5	2	1/6	1/6	1/6
VOLTS/PHASE/HERTZ	460/3/60	460/3/60	460/3/60	120/1/60	120/1/60	120/1/60
WEIGHT (LBS)	630	830	630	30	30	30
SONES	65 DBA	70 DBA	70 DBA	3.9	3.9	5.1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	COOK	COOK	COOK
MODEL NO.	VEKTOR-MD-15-4-85-LV-HPW	VEKTOR-MD-18-4-85-MV-HPW	VEKTOR-MD-15-4-85-LV-HPW	90C17DEC	90C17DEC	90C17DEC
NOTES	4	4	4	1, 2, 3	1, 2, 3	1, 2, 3

NOTES:

1. PROVIDE WITH PRE-FABRICATED ROOF CURB (MINIMUM OF 12"), WEATHERPROOF DISCONNECT SWITCH, BACKDRAFT DAMPER, AND BIRD SCREEN. PROVIDE WITH ECM.
2. INTERLOCK WITH ASSOCIATED AIR HANDLING UNIT.
3. ALL ROOF CURBS MUST MEET THE WIND LOAD REQUIREMENTS BASED ON A MINIMUL OF 130 MPH OR GREATER IN OUR REGION. TYPICAL FOR ALL ROOF MOUNTED EQUIPMENT.
4. PROVIDE WITH INSULATED ROOF CURB, DISCONNECT SWITCH, VFD.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER/MODEL	TYPE	NC	REMARKS
A	TITUS/TMS-AA	24"X24" SUPPLY	25	ALUMINUM CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
B	TITUS/50F	24"X24" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.
C	TITUS/TMS	12"X12" SUPPLY	25	STEEL CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
D	TITUS/50F	12"X12" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.
E	TITUS/300FS	SIDEWALL SUPPLY	25	ALUMINUM CONSTRUCTION. SEE MECHANICAL PLAN FOR SIZE.
F	TITUS/350FL	SIDEWALL RETURN	20	ALUMINUM CONSTRUCTION. PROVIDE DAMPER FOR EXHAUST.SEE MECHANICAL PLAN FOR SIZE.

NOTES:

1. PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN.
2. PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL INCLUDE PIPING, CONDUIT, DUCTWORK, AND STRUCTURAL MEMBERS.
3. PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CEILING UNLESS REFLECTED CEILING PLAN INDICATES HARD CEILING. IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING. PROVIDE REMOTE OPERATOR DAMPER AND CONTROL.
4. UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE. FOR ROUND NECK DIFFUSERS:
5. WHERE THERE IS NO ACCESS ABOVE CEILING, PROVIDE REMOTE OPERATED DAMPERS WITH THROUGH THE AIR DEVICE CONTROL.

6" DIA: 0-120 CFM
8" DIA: 125-220 CFM
10" DIA: 225-380 CFM
12" DIA: 385-600 CFM

VENTURI VALVE SCHEDULE

MARK	EXV-1	EXV-2	EXV-3	EXV-4	EXV-5	EXV-6	EXV-7	EXV-8	EXV-9	EXV-10	EXV-11
SERVES	GEN. CHEM 116	GEN. CHEM 116	GEN. CHEM 116	PREP 114	GEN. CHEM 113	GEN. CHEM 113	GEN. CHEM 113	MICROBIO/ORG	MICROBIO/ORG	MICROBIO/ORG	ORG PREP RM
VALVE SIZE	10	10	10	10	10	10	10	10	10	10	8
CONTROL TYPE	VAV	VAV	VAV	VAV	VAV	VAV	VAV	VAV	VAV	VAV	VAV
MANUFACTURER	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS	PHEONIX CONTROLS
MODEL NO.	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV	ACCEL II - EXV
NOTES	1	1	1	1	1	1	1	1	1	1	1

NOTES:

1. AIRFLOW CONTROL VALVES BY PHEONIX CONTROLS OR APPROVED EQUAL.

100% OUTSIDE AIR HANDLING UNIT SCHEDULE (ELECTRIC HEAT)

FAN AND MOTOR DATA	MARK	OSAHU-U-1	OSAHU-U-2	OSAHU-U-3
	SERVES	GEN CHEM 116	GEN CHEM 113	MICROBIO/ORG CHEM 108
	SUPPLY AIR (CFM)	2,150	3,600	2,340
	OUTSIDE AIR (CFM)	2,150	3,600	2,340
	EXT. SP. (IN W.G.)	1	1	1
COOLING	TOTAL COOLING (MBH)	186.9	309.4	205.8
	SENSIBLE COOLING (MBH)	64.2	106.4	71.0
	ENTERING AIR TEMP. DB/WB (F)	83.0/80.0	83.0/80.0	83.0/80.0
	LEAVING AIR TEMP. DB/WB (F)	54.5/54.41	55.0/56.1	54.1/54.0
	AMBIENT TEMP. (F)	100	100	100
HEATING	TOTAL HEATING (KW) / STAGES	37.6/5	60.1/8	40.0/4
	ENTERING AIR TEMP.(F)	35	35	35
	LEAVING AIR TEMP. (F)	90	90	95
REHEAT	CAPCITY (MBH)	47.0	58.0	40.0
	LEAVING AIR TEMP. DB/WB (F)	75.0/62.1	70.0/60.5	70.0/60.1
ELECTRIC	VOLTS/PHASE/HERTZ	460/3/60	460/3/60	460/3/60
	MCA	64	76	64
	MOCP	70	80	70
GENERAL	MANUFACTURER	AAON	AAON	AAON
	MODEL	RN015	RN025	RN018
	NOMINAL TONS	15	25	18
	EER (AHRI)	10.8	11.5	11.6
	WEIGHT (LBS)	1,400	2,700	2,500
	NOTES	ALL	ALL	ALL

NOTES:

1. PROVIDE 2" DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION.
2. PROVIDE FACTORY MOUNTED CONDENSER COIL HAIL GUARD AND FACTORY APPLIED E-COATING.
3. PROVIDE MODULATING HOT GAS REHEAT.
4. PROVIDE VARIABLE CAPACITY COMPRESSOR CAPABLE OF MODULATING FROM 10 TO 100% OF CAPACITY ON FIRST CIRCUIT.
5. PROVIDE WITH VARIABLE SPEED FAN.
6. PROVIDE WITH SINGLE POINT CONNECTION.
7. PROVIDE CONTROLS CONTRACTOR CONTROLLER AS PER EXISTING BAS INSTALLED BY FACTORY. VENDOR SHALL COORDINATE WITH LOCAL CONTROLS INSTALL TEAM FOR CORRECT CONTROLLER. FACTORY UNITARY CONTROLLERS SHALL NOT BE ALLOWED. BACNET INTERFACE SHALL NOT BE ALLOWED.

1 M5.01U MECHANICAL SCHEDULES
NOT TO SCALE

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STRUCTURAL:
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MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
76295
LICENSED
PROFESSIONAL ENGINEER
05-10-2019

COLLEGE 3
READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

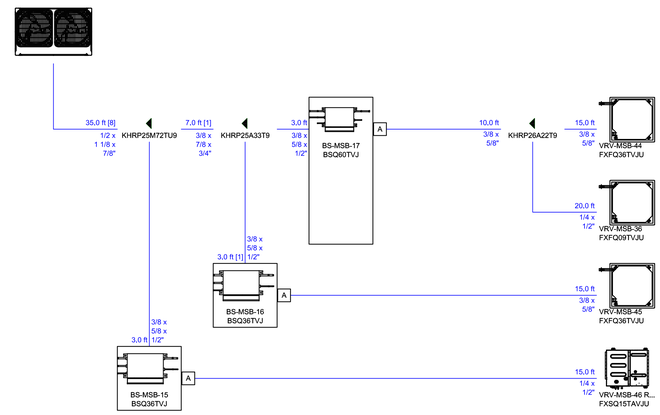
Sheet Title:

MECHANICAL SCHEDULES

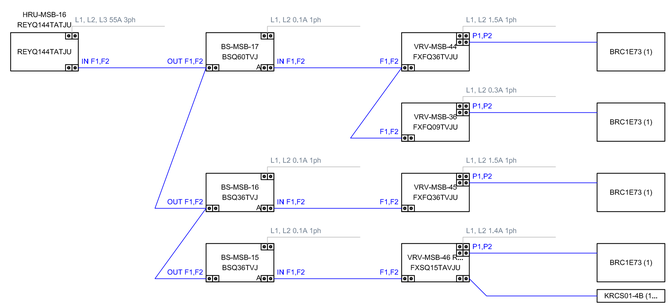
M5.01U

May 08, 2019 - 3:15pm User: mgarza
N:\19\198008.000\Drawings\0M-198008-DETAILS AND SCHEDULES.dwg

Client	USA
Project	HRU-MSB-16
Title	Piping schematics HRU-MSB-16 Air cooled heat recovery VRV-IV TA REYQ144TATJU
Date	5/6/2019
Drawing No	



Client	USA
Project	HRU-MSB-16
Title	Wiring schematics HRU-MSB-16 Air cooled heat recovery VRV-iV TA REYQ144TATJU
Date	5/6/2019
Drawing No	



VARIABLE REFRIGERANT VOLUME - AIR-COOLED CONDENSING UNIT SCHEDULE

TAG: ROOM	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		REFRIGERANT CHARGE		CONNECTION RATIO (%)	ELECTRICAL			DIMENSIONS		EFFICIENCY (NonDucted/Ducted)					NOMINAL TONNAGE	BASIS OF DESIGN (DAIKIN)
		Btu/hr	AMBIENT DESIGN (°F DB)	Btu/hr	AMBIENT DESIGN (°F DB / WB)	Factory Charge (lbs)	Add'l Refrigerant (lbs)		VOLTAGE-PHASE	MIN CIRCUIT AMPS (MCA)	MAX OVERCURRENT PROTECTION (MOP)	(WxHxD) (inch)	WEIGHT (lbs)	EER	IEER	COP 47	COP17	SCHE		
Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	Column13	Column14	Column15	Column16	Column17	Column18	Column19	Column20	Column21
HPU-GEN-1	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-GEN-2	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-GEN-3	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-GEN-4	HP-AC	32,000	105	35,700	32.0 / 27.0	6.4	2	83	230V 1ph	16.5	25 A	37.0x39.0x12.6	172	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		3	RXTQ36TAVJU
HPU-GEN-6	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-MSB-1	HP-AC	59,500	105	52,400	32.0 / 27.0	7.9	0.8	80	230V 1ph	29.1	35 A	35.4x53.0x12.6	225	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		5	RXTQ60TAVJU
HPU-MSB-11	HP-AC	95,000	105	89,000	32.0 / 27.0	22.7	1.2	75	208-230V 3ph	36.3	45A	48.9x66.7x30.2	525	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		8	RXYQ96TTJU
HPU-MSB-12	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-MSB-13	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-MSB-14	HP-AC	59,500	105	52,400	32.0 / 27.0	7.9	0.8	80	230V 1ph	29.1	35 A	35.4x53.0x12.6	225	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		5	RXTQ60TAVJU
HPU-MSB-18	HP-AC	116,000	105	106,000	32.0 / 27.0	22.9	5.6	80	208-230V 3ph	36.3	45A	48.9x66.7x30.2	527	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		10	RXYQ120TTJU
HPU-MSB-3	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-MSB-4	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	0.8	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HPU-MSB-6	HP-AC	95,000	105	89,000	32.0 / 27.0	22.7	1.4	75	208-230V 3ph	36.3	45A	48.9x66.7x30.2	525	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		8	RXYQ96TTJU
HPU-MSB-7	HP-AC	59,500	105	52,400	32.0 / 27.0	7.9	1.2	80	230V 1ph	29.1	35 A	35.4x53.0x12.6	225	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		5	RXTQ60TAVJU
HPU-MSB-8	HP-AC	48,300	105	44,400	32.0 / 27.0	7.5	1.2	100	230V 1ph	29.1	35 A	37.0x39.0x12.6	176	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		4	RXTQ48TAVJU
HRU-GEN-5	HR-AC	163,000	105	136,000	32.0 / 27.0	25.8	32.2	117	208-230V 3ph	61.9	70A	48.9x66.7x30.2	780	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	14	REYQ168TTJU
HRU-MED-1	HR-AC(2)	280,000	105	266,000	32.0 / 27.0	51.6	98.4	123	460V 3ph	31.9 / 31.9	40A / 40A	48.9x66.7x30.2 / 48.9x66.7x30.2	794 / 794	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	24	REYQ288TYDN
HRU-MED-2	HR-AC(2)	327,000	105	276,000	32.0 / 27.0	51.6	88	134	460V 3ph	36.1 / 36.1	40A / 40A	48.9x66.7x30.2 / 48.9x66.7x30.2	794 / 794	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	28	REYQ336TYDN
HRU-MSB-10	HR-AC	141,000	105	129,000	32.0 / 27.0	25.8	24.9	122	208-230V 3ph	55	70A	48.9x66.7x30.2	780	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	12	REYQ144TTJU
HPU-MSB-15	HP-AC	95,000	105	89,000	32.0 / 27.0	22.7	2	100	208-230V 3ph	36.3	45A	48.9x66.7x30.2	525	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15		8	RXYQ96TTJU
HRU-MSB-16	HR-AC	116,000	105	106,000	32.0 / 27.0	25.8	9.5	78	208-230V 3ph	43	50A	48.9x66.7x30.2	703	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	10	REYQ120TTJU
HRU-MSB-17	HR-AC	165,000	105	136,000	32.0 / 27.0	25.8	27.1	100	208-230V 3ph	61.9	70A	48.9x66.7x30.2	780	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	14	REYQ168TTJU
HRU-MSB-2	HR-AC	165,000	105	136,000	32.0 / 27.0	25.8	29.7	115	208-230V 3ph	61.9	70A	48.9x66.7x30.2	780	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	14	REYQ168TTJU
HRU-MSB-5	HR-AC	165,000	105	136,000	32.0 / 27.0	25.8	31.8	127	208-230V 3ph	61.9	70A	48.9x66.7x30.2	780	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	14	REYQ168TTJU
HRU-MSB-9	HR-AC	163,000	105	136,000	32.0 / 27.0	25.8	34.6	117	208-230V 3ph	61.9	70A	48.9x66.7x30.2	780	11.7/11.3	22/19.5	3.77/3.33	2.32/2.15	26.6/22.8	14	REYQ168TTJU

Definitions: -

HR-AC	Heat Recovery, Air-Cooled
HR-AC(2)	Heat Recovery, Air-Cooled, 2 Modules
HP-AC	Heat Pump, Air-Cooled
HP-AC(2)	Heat Pump, Air-Cooled, 2 Modules
HP-AC(3)	Heat Pump, Air-Cooled, 3 Modules

Schedule Notes: -

1. PROVIDE FIELD INSTALLED METAL CONSTRUCTION CONDENSER COIL HAIL GUARDS.
2. CONDENSING UNITS MUST HAVE FULLY MODULATING INVERTER COMPRESSORS.
3. EQUIPMENT MANUFACTURER SHALL SUPPLY ALL BRANCH PIPING FITTINGS REQUIRED FOR THE PROJECT.
4. ALL CONTROLS TO BE PROVIDED WITH VRF EQUIPMENT. WIRING TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
5. SYSTEMS USING SOLENOID CONTROL VALVES MUST INCLUDE FULL PORT ISOLATION VALVES BEFORE AND AFTER REFRIGERANT CONTROL BOX AND ACOUSTIC TREATMENT TO PROVIDE NO GREATER THAN NC20 IN THE OCCUPIED MODE.
6. CONDENSING UNITS MUST BE FURNISHED WITH PROTECTIVE COIL COATING TO WITHSTAND ASTM B117 SALT SPRAY TEST FOR A MINIMUM OF 2500 HOURS. PERFORMANCE OF SYSTEM MUST BE DE-RATED FOR COIL COATING.
7. SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR VRF CONTROLS. ALL OAHUS, IDF ROOMS AND VRF SYSTEMS ARE TO BE CONTROLLED VIA THIS SYSTEM. CONTROL SYSTEM SHALL HAVE THE CAPABILITY OF IMPORTING A FLOOR PLAN AND GRAPHICALLY DISPLAYING EQUIPMENT LOCATIONS PER THE CONTRACT DOCUMENT LOCATIONS ON THE FLOOR PLAN WITH ACTIVE LINKS TO THE EQUIPMENT BEING SERVED.
8. MANUFACTURERS SUBMITTAL SHALL INCLUDE REFRIGERANT PIPING DIAGRAMS WITH PIPE DIAMETERS, LENGTHS AND REFRIGERANT VOLUME. SUBSTITUE MANUFACTURERS SHALL BE RESPONSIBLE FOR ANY ADDITIONAL PIPING OR REFRIGERANT REQUIRED AND VERIFYING COMPLIANCE WITH LOCAL CODES.
9. PIPE LENGTHS ON DRAWINGS ARE APPROXIMATE. CONTRACTOR TO PROVIDE ACTUAL REFRIGERANT LINE LENGTHS TO EQUIPMENT SUPPLIER PRIOR TO ORDERING PIPE SO PIPE SIZES CAN BE ADJUSTED IF NECESSARY TO MATCH ACTUAL PIPE LENGTHS. ANY ADDITIONAL PIPE OR REFRIGERANT REQUIRED IS THE RESPONSIBILTY OF THE INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURERS CERTIFIED INSTALLATION, COMMISSIONING AND SERVICE TRAINING CLASS WITHIN THE PAST 24 MONTHS.
11. CONDENSING UNIT SHALL PROVIDE AUTO CHARGING AND INDOOR UNIT AUTO ADDRESSING CAPABILITY.
12. MANUFACTURER MUST PROVIDE A 10-YEAR PARTS WARRANTY ON ALL FCUS, CONDENSING UNITS, MODE CHANGEOVER DEVICES, OUTSIDE AIR UNITS AND ZONE CONTROLLERS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE.

MSB BLDG #4-FAN COIL UNIT SCHEDULE (HEAT RECOVERY)

	MARK	VRV-MSB-34	VRV-MSB-35	VRV-MSB-36	VRV-MSB-37	VRV-MSB-38	VRV-MSB-39	VRV-MSB-40	VRV-MSB-41	VRV-MSB-42	VRV-MSB-43	VRV-MSB-44	VRV-MSB-45	**VRV-MSB-46**	VRV-MSB-47	VRV-MSB-48
FAN AND MOTOR DATA	SERVES															
	SUPPLY AIR (CFM)	250	250	250	250	1200	1200	700	700	700	700	1200	1200	**375**	150	150
	SUPPLY AIR (CFM) (H / L)	441 / 353	441 / 353	441 / 353	441 / 353	1165 / 671	1165 / 671	777 / 477	777 / 477	777 / 477	777 / 477	1165 / 671	1165 / 671	**530/371**	420 / 353	420 / 353
	OUTSIDE AIR (CFM) - (PRETREATED)	0	0	0	0	345	345	173	173	173	173	345	345		0	0
	EXT. SP. (IN. W.G.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**N/A**	N/A	N/A
	FAN MOTOR WATTS	48	48	48	48	106	106	48	48	48	48	106	106	**162**	48	48
	MCA	0.8	0.8	0.8	0.8	1.5	1.5	0.7	0.7	0.7	0.7	1.5	1.5	**1.4**	0.8	0.8
	VOLTS/PHASE/HERTZ	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	**208/1/60**	208/1/60	208/1/60
	BELT/DIRECT DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	**DIRECT**	DIRECT	DIRECT
COOLING	TOTAL COOLING (MBH)	8.5	8.5	8.5	8.5	29.4	29.4	20	20	20	20	29.4	29.4	**14.3**	7	7
	SENSIBLE COOLING (MBH)	7.2	7.2	7.2	7.2	21.4	21.4	15	15	15	15	21.4	21.4	**10.8**	6.1	6.1
	LEAVING AIR TEMP. DB/WB (F)	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	**55/54**	55/54	55/54
	ENTERING AIR TEMP. DB/WB (F)	78/65	78/65	78/65	78/65	71.4/61.8	71.4/61.8	72.3/62.3	72.3/62.3	72.3/62.3	72.3/62.3	71.4/61.8	71.4/61.8	**78.8/65.5**	78/65	78/65
	LIQUID PIPE (IN. DIAM)	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	**1/4**	1/4	1/4
	GAS PIPE (IN. DIAM)	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	**1/2**	1/2	1/2
HEATING	TOTAL HEATING (MBH)	9	9	9	9	36	36	24	24	24	24	36	36	**18.4**	9	9
	ENTERING AIR TEMP. DB (F)	65	65	65	65	65	65	65	65	65	65	65	65	**65**	65	65
	LEAVING AIR TEMP. DB (F)	83	83	83	83	93	93	93	93	93	93	93	93	**93**	84	84
GENERAL	MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	**DAIKIN**	DAIKIN	DAIKIN
	MODEL	FXFQ09TVJU	FXFQ09TVJU	FXFQ09TVJU	FXFQ09TVJU	FXFQ36TVJU	FXFQ36TVJU	FXFQ24TVJU	FXFQ24TVJU	FXFQ24TVJU	FXFQ24TVJU	FXFQ36TVJU	FXFQ36TVJU	**FXSQ15TAVJU**	FXFQ07TVJU	FXFQ07TVJU
	WEIGHT (LBS)	42	42	42	42	58	58	51	51	51	51	58	58	**60**	42	42
	ASSOCIATED CU	REFER TO PIPING DIAGRAMS														
	NOTES	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	**ALL**	ALL	ALL

NOTES:

1. PROVIDE WALL MOUNTED REMOTE SENSOR FOR MOUNTING IN SPACE. PROVIDE SEPARATE PROGRAMMABLE BACKLIT THERMOSTAT WITH 2 DEG F AUTO-CHANGEOVER DEADBAND, OCCUPIED AND UNOCCUPIED SETPOINTS AND ABILITY TO DIAGNOSE ERRORS FOR MOUNTING ABOVE CEILING.
2. ALL CONTROLS TO BE PROVIDED BY VRF MANUFACTURER. NO THIRD PARTY OR BACNET INTERFACES ARE ALLOWED. OAUs ARE TO BE TIED INTO THE VRF CONTROLS.
3. VRF MANUFACTURER TO PROVIDE FIELD INSTALLED FILTER RACK AND FILTERS AT THE INLET TO THE DUCTED FCUS. MIXING BOX BY INSTALLING CONTRACTOR. FXFQ CASSETTE UNITS TO BE PROVIDED WITH FIELD INSTALLED SELF CLEANING FILTER DECORATION PANEL EQUAL TO DAIKIN P
4. EQUIPMENT MANUFACTURER TO PROVIDE ALL BRANCH FITTINGS REQUIRED FOR THE PROJECT.
5. INSTALL PER MANUFACTURER'S INSTRUCTIONS. ONLY CERTIFIED COMPANIES ARE ALLOWED TO INSTALL. CERTIFICATION INFORMATION IS AVAILABLE FROM PERRY MECHANICAL SYSTEMS.
6. COORDINATE NEW PIPING AND WIRING DIAGRAM WITH MANUFACTURE PRIOR TO ORDERING AND PRICING.
7. PROVIDE 10-YEAR MANUFACTURER PARTS WARRANTY ON ALL VRF EQUIPMENT.

1 M6.01U MECHANICAL PIPING AND WIRING DIAGRAMS
NOT TO SCALE

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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
76295
LICENSED
PROFESSIONAL ENGINEER
05-10-19

PSJA COLLEGE READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

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MECHANICAL PIPING AND WIRING DIAGRAMS

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ABBREVIATIONS

A

A	AMPERES
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR, ABOVE COUNTER
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNICATOR
AP	ACCESS PANEL, ALARM PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AVG.	AVERAGE
AUX.	AUXILIARY
AWG.	AMERICAN WIRE GAUGE

B

BAS	BUILDING AUTOMATION SYSTEM
BC	BELOW COUNTER
BKR	BREAKER
BLDG.	BUILDING

C

C	CONDUIT, CELSIUS
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CWP	CONDENSER WATER PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CIRC	CIRCULATING
CKT	CIRCUIT
CL	CENTERLINE
CLG.	CEILING
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT.	CONTINUOUS,CONTINUATION
CONTR.	CONTROLLER, CONTRACTOR
CP.	CIRCULATING PUMP
CPUC	CPU CHILLER
CR	CARD READER, CORD REEL
CRU	CONDENSATE RETURN UNIT
CT	CURRENT TRANSFORMER, COOLING TOWER
CTR	CENTER
CU	COPPER

D

dB	DECIBEL
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DR	DROPPED RECEPTACLE
DS	DAYLIGHT SENSOR
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DXFC	DX FAN COIL UNIT
DZ	DAYLIGHT ZONE

E

(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
E.C.	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMCS	ENERGY MANAGEMENT AND CONTROLS SYSTEM
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
ENCL.	ENCLOSURE
ENGR.	ENGINEER
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
(ER)	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST

F

F	FAHRENHEIT, FAN, FIRE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FF	FURNITURE FEED
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FP	FIRE PUMP, FAN POWERED
FPTB	FAN POWERED TERMINAL BOX
FRZR	FREEZER
FS	FUSED SWITCH, FLOW SWITCH
FSD	MOTORIZED FIRE SMOKE DAMPER
FT	FOOT, FEET
FTL	FEED-THRU LUGS
FUT	FUTURE
FVNR	FULL-VOLTAGE, NON-REVERSING

G

GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
GUH	GAS UNIT HEATER

H

HACR	HEATING, AIR CONDITIONING RATED CIRCUIT BREAKER
HD	ELECTRIC HAND DRYER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HS	HAND SET
HSC	HAND SCANNER
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVU	HEATING/ VENTILATING UNIT
HWB	HOT WATER BOILER
HWC	HOT WATER CIRCULATOR
HWP	HEATING WATER PUMP
HZ	HERTZ

I

ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCH
INCAND	INCANDESCENT
INT	INTERNAL, INTERIOR

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
kVA	KILOVOLT- AMPS
kW	KILOWATT
kWH	KILOWATT-HOUR

L

LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE TRANSFORMER
LVL	LEVEL

M

M	METER
MAP	MASTER ALARM PANEL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MV	MERCURY VAPOR

N

N3R	NEMA 3R ENCLOSURE
N4X	NEMA 4X ENCLOSURE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRICAL
OPG	OPENING

P

P	POLE, PUMP
PB	PUSHBUTTON
PC	PHOTOCELL
PH	PHASE
PL	PILOT LIGHT
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
POS	POINT OF SALE
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PS	PHOTOSENSOR
PVC	POLYVINYL CHLORIDE
PWR	POWER

Q

QTY	QUANTITY

R

R	EXISTING TO BE REMOVED
RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RC	RECONNECT EXISTING DEVICE TO CIRCUIT INDICATED
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
REC	RECEPTACLE
REFR	REFRIGERATOR
REINF	REINFORCING
REL	EXISTING TO BE RELOCATED
REL/EX	NEW LOCATION OF RELOCATED EQUIPMENT
REQD	REQUIRED
REV	REVISION, REVISE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND REPLACE
RTU	ROOFTOP UNIT

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SCHED	SCHEDULE
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SP	SUMP PUMP
SPEC	SPECIFICATION
SPF	STAIR PRESSURIZATION FAN
SPKR	SPEAKER
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SQ.	SQUARE
SRF	SMOKE REMOVAL FAN
SS	START-STOP PUSH BUTTON
SSSC	SOLID STATE SPEED CONTROL
ST	SHUNT TRIP
STB	STEAM BOILER
STD	STANDARD
STL	STEEL
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD

T

TC	TEMPERATURE CONTROL
TEL	TELEPHONE
TF	TRANSFER FAN
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TP	CHILD TAMPER PROOF DEVICE
TSTAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TU	TERMINAL UNIT
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL

U

UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SYSTEM

V

V	VOLT
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VC	VOLUME CONTROL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VM	VOLT METER

W

W	WATT, WIRE, WIDTH
WG	WIREGUARD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WS	WATER SOFTENER
WT	WATERTIGHT, WEIGHT
WWF	WELDED WIRE FABRIC
W/FT²	WATTS PER SQUARE FOOT

X

XFMR	TRANSFORMER

Z

Z	ZONE

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- (5) — SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/#5" DENOTES: AMPERES/POLES/FUSE/ STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD — VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO — EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
  - "GFCI" DENOTES GROUND FAULT INTERRUPTER,
  - "WP" DENOTES WEATHERPROOF,
  - "IG" DENOTES ISOLATED GROUND,
  - "TP" DENOTES SAFETY TYPE, (TAMPER PROOF)
  - "DR" DENOTES DROPPED RECEPTACLE,
  - "USB" DENOTES RECEPTACLE WITH UNIVERSAL SERIAL BUS,
  - "AC" DENOTES ABOVE COUNTER MOUNTING, SEE
  - "UC" DENOTES UNDER COUNTER MOUNTING, SEE
  - "H" DENOTES HORIZONTALLY ORIENTED RECEPTACLE, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT.
- R — DUPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- DUPLEX WALL RECEPTACLE ON A CIRCUIT DEDICATED TO DATA PROCESSING, GRAY COLOR. PROVIDE ISOLATED GROUND TYPE RECEPTACLES WHERE NOTED.
- SPLIT WIRED RECEPTACLE. TOP RECEPTACLE SHALL BE SWITCHED ACCORDING TO PLANS, AND BOTTOM SHALL REMAIN UNSWITCHED.
- SP — CONTROLLED DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. "SP" DENOTES SPLIT WIRED
- FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- R — FOURPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
- CONTROLLED FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- TWO-GANG FLOOR OUTLET
- THREE-GANG FLOOR OUTLET
- MULTI-OUTLET SURFACE RACEWAY. SEE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- J — JUNCTION BOX
  - "MD" DENOTES MOTOR DAMPER,
  - "CR" DENOTES CORD REEL,
  - "D" DENOTES DROP CORD RECEPTACLE,
- DUPLEX RECEPTACLE WITH HOMERUN
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- TWO-GANG CEILING OUTLET
- D, R, P — FLUSH ELECTRICAL FLOOR OUTLET, "P" DENOTES POKE-THRU. "D" INDICATES DUPLEX RECEPTACLE, "R" INDICATES RED RECEPTACLE ON EMERGENCY POWER. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- PP — POWER POLE
- DIRECT CONNECTION TO EQUIPMENT
- P — PULL BOX (OVER 4" SQUARE)
- C (2) — CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

- 2' X 4' LIGHTING FIXTURE.
- 2' X 2' LIGHTING FIXTURE.
- 1' X 4' LIGHTING FIXTURE.
- 1' X 2' LIGHTING FIXTURE.
- 1' X 1' LIGHTING FIXTURE.
- STRIP LIGHTING FIXTURES.
- STAGGERED STRIP LIGHTING FIXTURE.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SECURITY WALL PACK
- SITE LIGHTING FIXTURE.
- POST-TOP FIXTURE/ACORN FIXTURE BRACKET ARM INDICATES WALL MOUNT WITH ARM
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
- EM CIRCUIT — LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, CIRCUIT NUMBER ADJACENT TO FIXTURE INDICATES EMERGENCY CIRCUIT CONNECTED TO FIXTURE. PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.
- NL — EMERGENCY "NIGHT LIGHT" LIGHT FIXTURE. LIGHT FIXTURE IS UNSWITCHED AND INTENDED FOR 24 HOUR OPERATION. FEED VIA UNSWITCHED HOT.
- DAYLIGHT ZONE/PRIMARY DAYLIGHT ZONE
- SECONDARY DAYLIGHT ZONE

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT UNDERSLAB OR UNDERGROUND
- EM — EMERGENCY CONDUIT
- EXPOSED CONDUIT
- DB — UNDERGROUND CONDUIT, "DB" DENOTES DUCTBANK ENCASED IN CONCRETE
- OHE — OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/SWITCH LEG/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES 2 # 12, PLUS GROUND, UNLESS NOTED OTHERWISE.
- LLA-2,4 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 — PARTIAL CIRCUIT HOMERUN TO PANEL.
- T — COMMUNICATIONS CONDUIT OR CABLE:
  - "CC" DENOTES MASTER CLOCK,
  - "CA" DENOTES MASTER CLOCK,
  - "CR" DENOTES CASH REGISTER
  - "D" DENOTES DATA,
  - "FA" DENOTES FIRE ALARM,
  - "I" DENOTES INTERCOM,
  - "OHE" DENOTES OVERHEAD ELECTRICAL LINE.
  - "PA" DENOTES PAGING,
  - "S" DENOTES SECURITY,
  - "T" DENOTES TELEPHONE,
  - "V" DENOTES VIDEO,
- TELECOMMUNICATIONS CABLE TRAY TO BE CONCEALED ABOVE ACCESSABLE CEILING.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB — SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE
- TERMINAL CABINET (FLUSH/SURFACE MOUNT), TYPE AS NOTED, 24" X 48" X 3-1/2" UNLESS NOTED OTHERWISE.
- BAT — BATTERY/INVERTER UNIT
- LV — LOW VOLTAGE TRANSFORMER.

COMMUNICATIONS

ALL OUTLET BOXES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

THE FOLLOWING NOTATIONS REFER TO ALL COMMUNICATIONS OUTLETS:
"FAX" DENOTES OUTLET DEDICATED FOR A FAX,
"W" DENOTES WALL PHONE SHALL BE MOUNTED AT 42" A.F.F.
"PAY" DENOTES PAY PHONE SHALL BE MOUNTED 42" A.F.F.

- HS — SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.
- INDICATES THE LOCATION OF A NEW TECHNOLOGY WALL OUTLET, PROVIDE DUAL GANG BACK BOX. REFERENCE TECHNOLOGY SHEET FOR CONTENT.
- M W — MICROPHONE FLOOR OUTLET, "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- S VC — CEILING MOUNTED SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.
- S L — WALL MOUNTED SPEAKER. "L" INDICATED LOCAL SOUND REINFORCEMENT
- CB — SCHOOL INTERCOMMUNICATION SYSTEM CALL-IN. PUSH BUTTON
- BELL, BUZZER OR CHIME AT 80+ A.F.F.
- VC — VOLUME CONTROL - WALL MOUNTED
- AJ W — AUXILIARY INPUT JACK. "W" INDICATES WALL MOUNTED "F" INDICATES FLOOR MOUNTED "H" INDICATES HANGING MOUNTED
- AVO — "HIGH" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.
- AV — "LOW" PORTION OF "HIGH/LOW" OUTLETS, REFER TO OUTLET DETAIL.
- C (2) LV — LOW VOLTAGE CLOCK SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P — SWITCH, RATING AS SHOWN
- 400A — FUSE, RATING AS SHOWN
- CL — CIRCUIT BREAKER, RATING AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE. "CL" DENOTES CURRENT LIMITING
- DRAWOUT CIRCUIT BREAKER, RATINGS AS SHOWN, 3 POLE UNLESS NOTED OTHERWISE
- ST — SHUNT TRIP
- GF — GROUND FAULT RELAY
- K — KIRK-KEY INTERLOCK
- M — DIGITAL METER
- A 0-2000 — AMMETER, RANGE AS SHOWN
- AS — AMMETER SWITCH
- V 0-600 — VOLTMETER, RANGE AS SHOWN
- VS — VOLTMETER SWITCH
- WH D-15 — WATT-HOUR METER, "D" DENOTES DEMAND REGISTER "15" DENOTES MINUTES OF DEMAND INTERVAL
- 1200/5 — CURRENT TRANSFORMER, RATED AS SHOWN
- 12.47KV/120V — POTENTIAL TRANSFORMER, RATING AS SHOWN
- GROUND CONNECTION
- LIGHTING ARRESTOR
- G — GENERATOR SET
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- M — ELECTRICAL METER
- SPD — SURGE PROTECTION DEVICE

MISCELLANEOUS

- F — SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 — DRAWING NOTE REFERENCE
- 1 — STARTER/DISCONNECT SCHEDULE REFERENCE
- 1 — FEEDER SCHEDULE REFERENCE
- LC — LIGHTING CONTACTOR
- TS — TIME SWITCH
- PC — PHOTOCELL
- PUSH BUTTON/DOOR BELL
- TC — TIMECLOCK
- R — RELAY
- SOS — AREA OF RESCUE ASSISTANCE
- B — BELL

FIRE ALARM

- W — WATER FLOW SWITCH
- SP — SUPERVISORY SWITCH
- S — SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S — SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H — HEAT DETECTOR
- S BT — BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR — BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S — FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S — FIRE ALARM SPEAKER STROBE / WALL MOUNTED
- S — FIRE ALARM SPEAKER / CEILING MOUNT.
- S — FIRE ALARM SPEAKER / WALL MOUNTED
- DH — MAGNETIC DOOR HOLDER
- R — AUXILIARY CONTROL RELAY
- FH — FIRE FIGHTER HANDSET
- F — FIRE ALARM PULL STATION +42" AFF
- F — FIREMAN'S TELEPHONE JACK +42" AFF
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- H — VISUAL FIRE ALARM (STROBE) WALL MOUNT +80" AFF- 15/75cd U.N.O.
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP — FIRE ALARM CONTROL PANEL
- ANN — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS — REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD — FIRE SMOKE DAMPER
- REMOTE LED INDICATOR LIGHT

SECURITY

- KP — KEYPAD
- GB — GLASS BREAK SENSOR
- HB — HOLD UP BUTTON
- DS — INTERCOM DOOR STATION
- MS — INTERCOM MASTER STATION
- U — LONG RANGE MOTION DETECTOR
- U — WALL MOUNTED MOTION DETECTOR
- U — CEILING MOUNTED MOTION DETECTOR
- IDP — INTRUSION DETECTION PANEL
- DC — DOOR CONTACT
- PB — ADA AUTO DOOR OPEN BUTTON
- DR — DOOR RELEASE BUTTON
- CR — CARD READER
- CR — WALL MOUNTED CARD READER

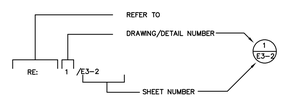
REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES

ALL WALL SWITCHES SHALL BE MOUNTED AT 42" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- $ — SWITCH, SPST, 20A, 120/277V.
- $2 — SWITCH, 20A, 120/277V:
  - "2" DENOTES DPST,
  - "3" DENOTES THREE-WAY,
  - "4" DENOTES FOUR-WAY,
  - "K" DENOTES KEY SWITCH,
  - "P" DENOTES PILOT LIGHT,
  - "T" DENOTES SPRING WOUND TIMER.
  - "R" DENOTES RED
  - "F" DENOTES FAN SPEED CONTROLLER
  - "OC" DENOTES OCCUPANCY SENSOR SWITCH
  - "LVK" DENOTES LOW VOLTAGE KEYED SWITCH
  - "LV" DENOTES LOW VOLTAGE SWITCH
  - "L" DENOTES LOCKING SWITCH
- $MC — SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
- $D — DIMMER CONTROL SWITCH, 600 WATT UNLESS OTHERWISE NOTED.
- $3K — THREE-WAY KEY SWITCH, 20A, 120/277V.
- $SC — WALL MOUNTED SWITCH TO CONTROL MOTORIZED PROJECTION SCREENS.
- $M — MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- OC — CEILING MOUNTED OCCUPANCY SENSOR
- MP — MASTER OCCUPANCY SENSOR POWER PACK
- DS — DAYLIGHT/PHOTO SENSOR
- PS — PARTITION SENSOR

DRAWING/DETAIL REFERENCE KEY



GENERAL NOTES

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

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MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS — KEVIN DAN MILGRIM — 78295 — LICENSED PROFESSIONAL ENGINEER — 05-10-2019

COLLEGE³ READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

ELECTRICAL SYMBOL LEGEND

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1933 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	-

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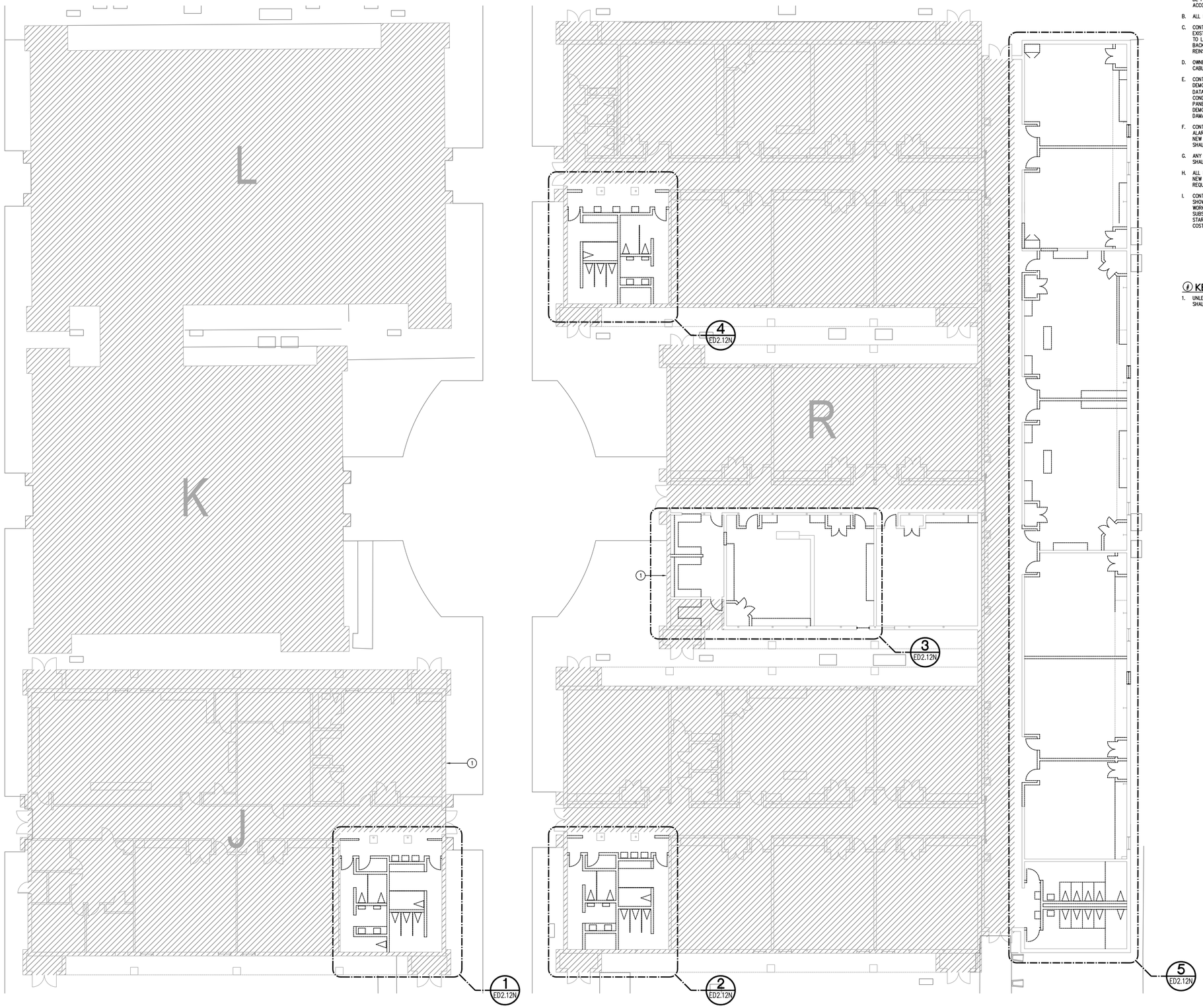

1 ED2.11U ELECTRICAL DEMOLITION PLAN - UNIVERSITY CAMPUS

3/32"=1'-0"

GENERAL NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE FIELD VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE ALL LABOR AND MATERIAL CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, CONDUIT AND WIRING WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED, SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED.

B. ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

C. CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED BACK TO LAST ACTIVE JUNCTION AND SALVAGED FOR REINSTALLATION.

D. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

E. CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, SWITCHES, DATA/TELEPHONE DROPS, FIRE ALARM DEVICES, P/A DEVICES, CONDUIT, AND WIRING. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX. REFER TO ARCHITECTURAL DEMO PLAN. ALL DEVICES SHALL BE STORED AND PROTECTED FROM DAMAGE FOR REINSTALLATION PER NEW ELECTRICAL WORK.

F. CONTRACTOR SHALL REMOVE AND SALVAGE ALL EXISTING FIRE ALARM DEVICES. PROVIDE ADDITIONAL DEVICES AS REQUIRED PER NEW FIRE ALARM DESIGN. EXISTING FIRE ALARM CONTROL PANEL SHALL REMAIN.

G. ANY EXISTING CONDUIT NOT BEING REUSED ROUTED BELOW GRADE SHALL BE ABANDONED.

H. ALL ELECTRICAL LIGHTING AND EQUIPMENT SHALL BE LOCATED PER NEW ELECTRICAL PLANS. EXTEND ALL EXISTING FEEDERS AS REQUIRED FOR RELOCATION.

I. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN TO THE OWNER BEFORE STARTING WORK. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT ARE NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.

KEYED NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXISTING PANELS IN THIS BUILDING SHALL REMAIN AND SHALL BE IN SERVICE AT END OF PROJECT.

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STATE OF TEXAS
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05-10-2019

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

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COMPOSITE LIGHTING PLAN - UNIV. CAMPUS

DBR
200 South 10th Street, Suite 901
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TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

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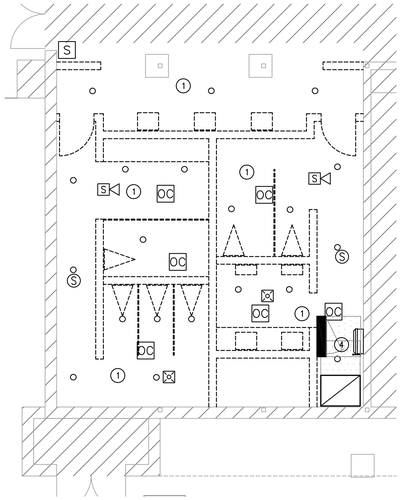
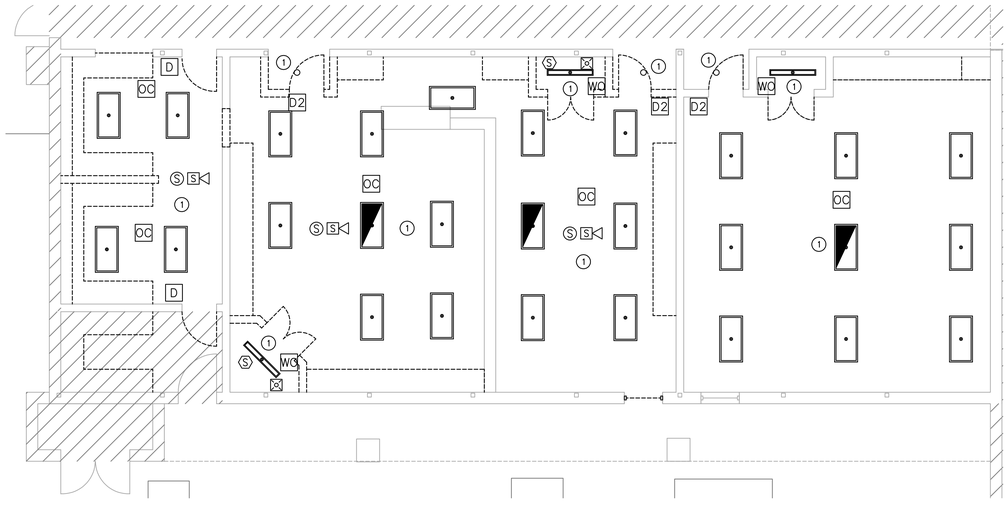


5 ED2.12U ENLARGED ELECTRICAL DEMOLITION PLAN
3/16"=1'-0"



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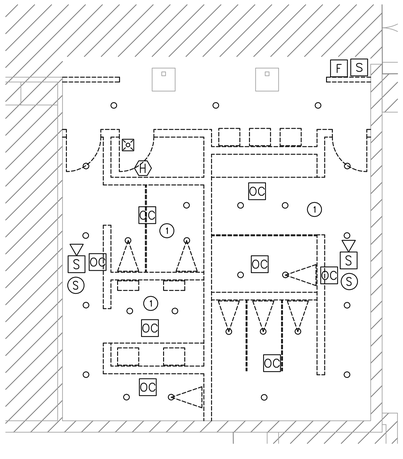

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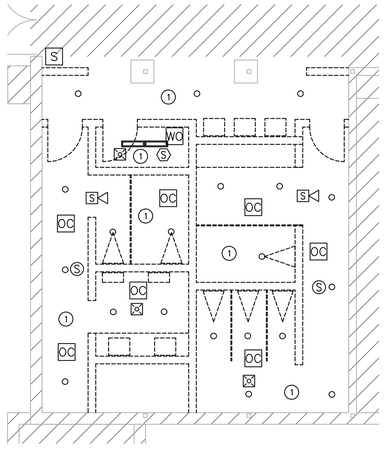

2 ED2.12U ENLARGED ELECTRICAL DEMOLITION PLAN
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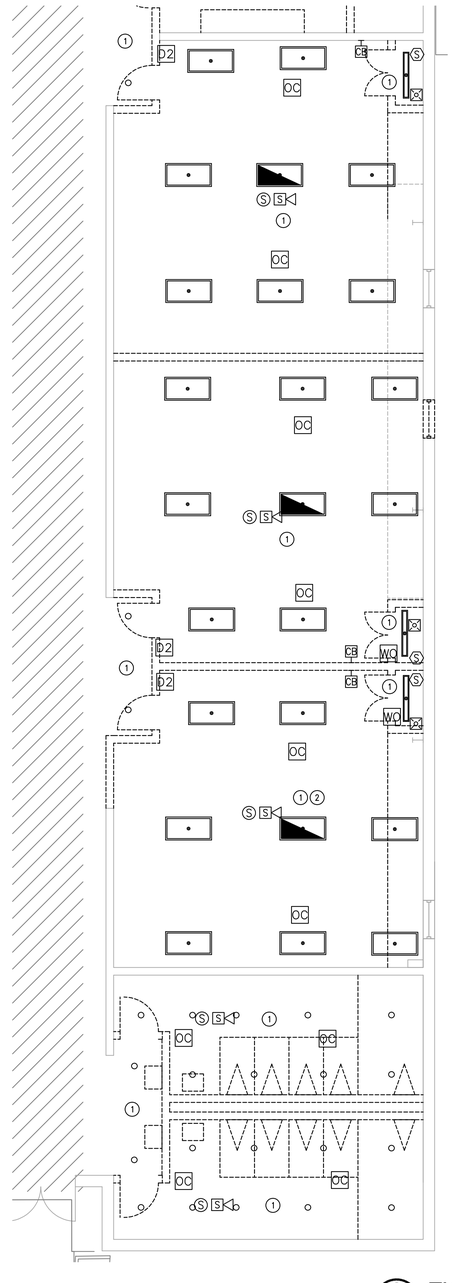

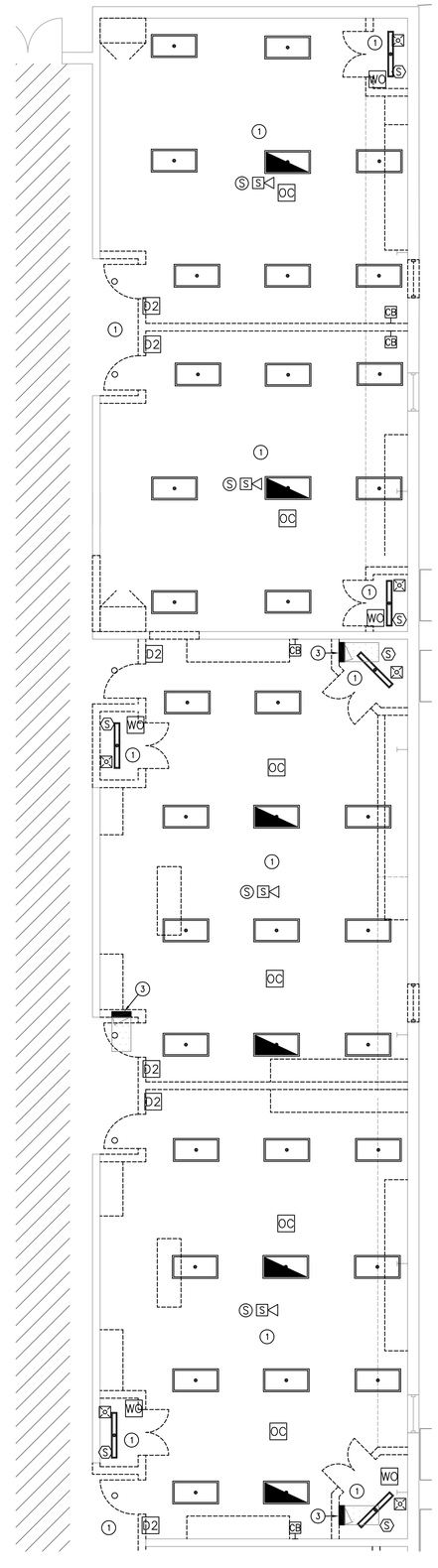

3 ED2.12U ENLARGED ELECTRICAL DEMOLITION PLAN
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B. ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

C. CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED BACK TO LAST ACTIVE JUNCTION AND SALVAGED FOR REINSTALLATION.

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G. ANY EXISTING CONDUIT NOT BEING REUSED ROUTED BELOW GRADE SHALL BE ABANDONED.

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KEYED NOTES:

1. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING INTERIOR LIGHT FIXTURES THROUGH OUT THE SPACE, CEILING MOUNTED LIGHTING CONTROL DEVICES, CEILING MOUNTED FIRE ALARM DEVICES AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX. REFER TO NEW ELECTRICAL WORK FOR NEW LIGHT FIXTURE LOCATIONS.
2. REMOVE A TOTAL OF 25 COMPUTER DATA DROPS. ALL COMPUTER EQUIPMENT TO BE RELOCATED TO NEW CLASSROOM. CONTRACTOR SHALL DOCUMENT ELECTRICAL CIRCUITS SERVING COMPUTER LAB AND REINSTALL AT NEW LOCATION.
3. DEMOLISH EXISTING PANEL. REMOVE ALL ASSOCIATED CONDUIT AND CIRCUIT WIRING. CONTRACTOR SHALL DEMOLISH INCOMING FEEDER BACK TO DISTRIBUTION PANEL BOARD.
4. EXISTING ELECTRICAL EQUIPMENT TO REMAIN. CONTRACTOR SHALL COORDINATE WITH DEMOLITION WORK AND PROVIDE TEMPORARY SUPPORT STRUCTURE FOR EQUIPMENT AS REQUIRED. KEEP AS MUCH OF THE EQUIPMENT INTACT AS POSSIBLE.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
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ACAD File:	A-240-U

Revisions:

Sheet Title:

COMPOSITE ELECTRICAL DEMO PLAN - UNIV. CAMPUS

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

ED2.12U

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1 EL2.11U ELECTRICAL LIGHTING PLAN - UNIVERSITY CAMPUS

3/32"=1'-0"

GENERAL NOTES:

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G. ANY EXISTING CONDUIT NOT BEING REUSED ROUTED BELOW GRADE SHALL BE ABANDONED.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

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COMPOSITE ELECTRICAL LIGHTING PLAN - UNIV. CAMPUS

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

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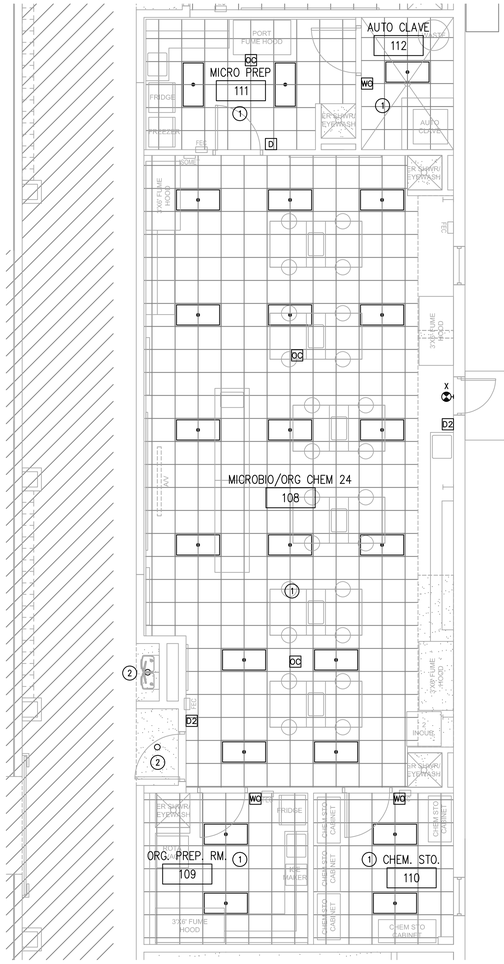
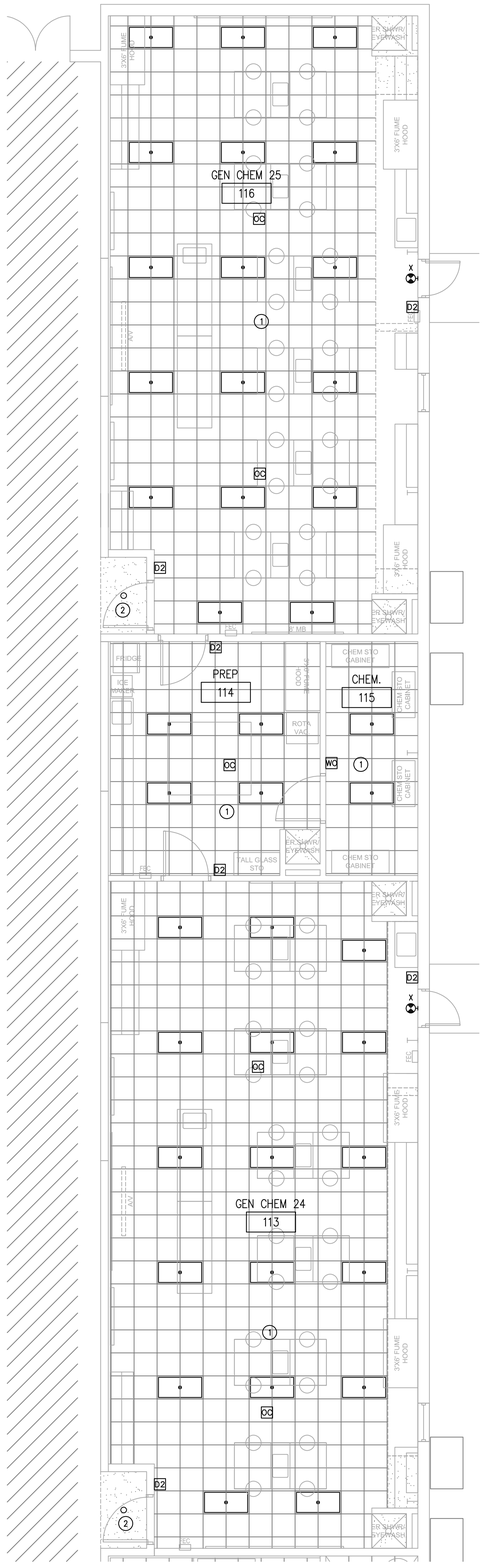


1 EL2.12U ENLARGED ELECTRICAL PLAN
3/16"=1'-0"



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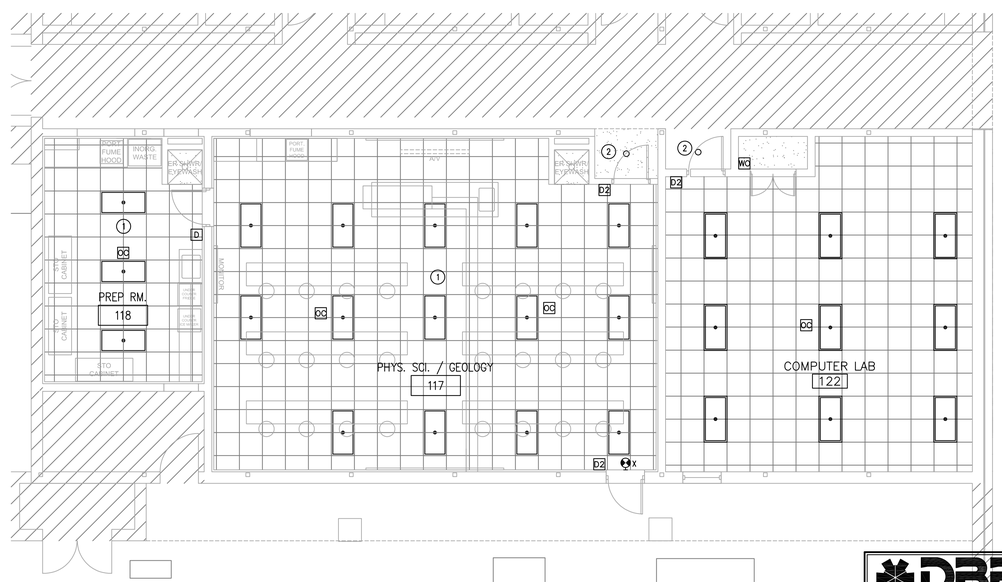

3 EL2.12U ENLARGED ELECTRICAL PLAN
3/16"=1'-0"

GENERAL NOTES:

A. ALL LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS WITH INSTALLED CEILING GRID, MECHANICAL DUCT WORK, STRUCTURAL MEMBERS AND ALL OTHER TRADES.

B. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED, PENDANT MOUNTED AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT AND/OR ENGINEER. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AT NO ADDITIONAL COST TO OWNER.

C. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH UNIVERSAL VOLTAGE DRIVERS. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE OF EXISTING AND NEW PANELS AND CONNECT ALL LIGHT FIXTURES ACCORDINGLY.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER AND PROVIDE ADEQUATE NUMBER OF POWER PACKS FOR THE INTENDED NUMBER OF LIGHT FIXTURES IN EACH ROOM.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER AND PROVIDE ADEQUATE NUMBER OF OCCUPANCY SENSORS TO PROVIDE FULL COVERAGE FOR EACH ROOM.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WALL MOUNTED LIGHTING CONTROL DEVICES WITH ARCHITECT AND/OR OWNER IN FIELD BEFORE ROUGH-IN.

G. ALL EXIT LIGHTS SHALL BE CONNECTED TO UNSWITCHED CIRCUIT.

H. ALL LIGHT FIXTURES WITH AN 'E' SUFFIX SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK. FIXTURES SHALL BE WIRED SO THAT FIXTURE REMAINS ON DURING LOSS OF POWER AT PANEL.

I. NEW LIGHTING CONTROL DEVICES SHALL MATCH EXISTING CONTROLS MANUFACTURER. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL DEVICES THAT CAN INTERFACE WITH EXISTING CONTROLS PROTOCOL. COORDINATE MODEL NUMBERS WITH MANUFACTURER PRIOR TO PURCHASE.

KEYED NOTES:

1. REINSTALL EXISTING LIGHT FIXTURES APPROXIMATELY AS SHOWN. CONTRACTOR SHALL CONNECT LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT WITHIN THE SPACE.
2. LIGHT FIXTURES TO BE CONTROLLED WITH HALLWAY LIGHTING. PROVIDE REQUIRED POWER PACKS AND CONTROL WIRING COMPATIBLE WITH EXISTING LIGHTING CONTROL SYSTEM.

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PSJA COLLEGE3 READY. CONNECTED. COMPLETE.

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NORTH ECHS & COLLEGE

AND

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STUDENT RESTROOM RENOVATIONS

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ENLARGED ELECTRICAL LIGHTING PLANS - UNIV. CAMPUS

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Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

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GENERAL NOTES:

A. ALL LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS WITH INSTALLED CEILING GRID, MECHANICAL DUCT WORK, STRUCTURAL MEMBERS AND ALL OTHER TRADES.

B. ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED, PENDANT MOUNTED AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT AND/OR ENGINEER. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AT NO ADDITIONAL COST TO OWNER.

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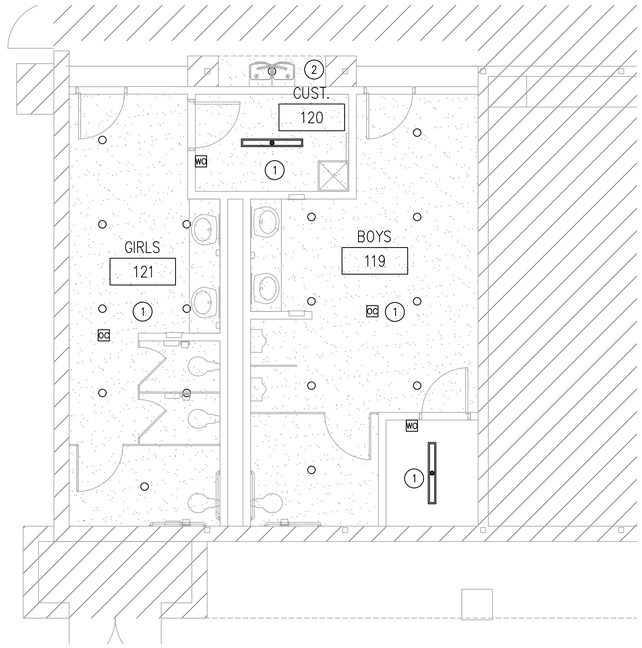
G. ALL EXIT LIGHTS SHALL BE CONNECTED TO UNSWITCHED CIRCUIT.

H. ALL LIGHT FIXTURES WITH AN 'E' SUFFIX SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK. FIXTURES SHALL BE WIRED SO THAT FIXTURE REMAINS ON DURING LOSS OF POWER AT PANEL.

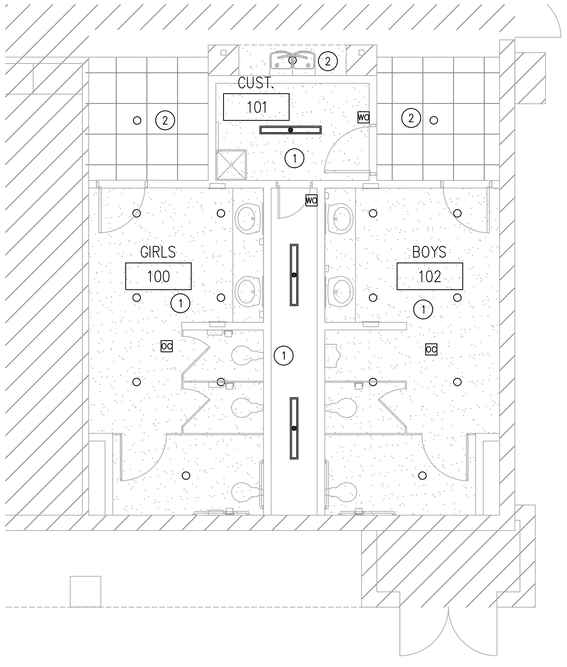
I. NEW LIGHTING CONTROL DEVICES SHALL MATCH EXISTING CONTROLS MANUFACTURER. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL DEVICES THAT CAN INTERFACE WITH EXISTING CONTROLS PROTOCOL. COORDINATE MODEL NUMBERS WITH MANUFACTURER PRIOR TO PURCHASE.

KEYED NOTES:

1. REINSTALL EXISTING LIGHT FIXTURES APPROXIMATELY AS SHOWN. CONTRACTOR SHALL CONNECT LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT WITHIN THE SPACE.
2. LIGHT FIXTURES TO BE CONTROLLED WITH HALLWAY LIGHTING. PROVIDE REQUIRED POWER PACKS AND CONTROL WIRING COMPATIBLE WITH EXISTING LIGHTING CONTROL SYSTEM.



4 EL2.13U ENLARGED ELECTRICAL PLAN
1/4"=1'-0"



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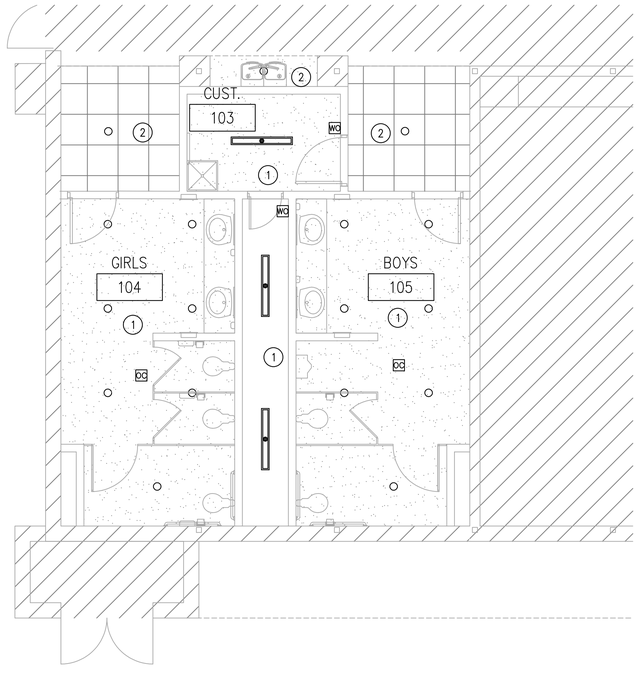

2 EL2.13U ENLARGED ELECTRICAL PLAN
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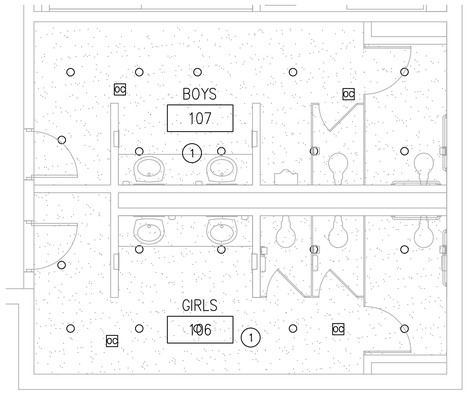

3 EL2.13U ENLARGED ELECTRICAL PLAN
1/4"=1'-0"

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05-10-19

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AND

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

ENLARGED ELECTRICAL LIGHTING PLANS - UNIV. CAMPUS

DBR
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TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

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1 EP2.11U ELECTRICAL LIGHTING PLAN - UNIVERSITY CAMPUS

3/32"=1'-0"

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT.

B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.

C. ELECTRICAL CONTRACTOR SHALL REFERENCE TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUIT AND BACK BOX REQUIREMENTS. DIVISION 26 SHALL PROVIDE ALL PATHWAYS FOR LOW VOLTAGE SYSTEMS. DIVISION 26 CONTRACTOR SHALL COORDINATE WITH DIVISION 27 AND 28 CONTRACTORS FOR PATHWAY AND ROUGH-IN NEEDS.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.

E. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.

F. ALL RECEPTACLES MOUNTED ABOVE COUNTERS AND WITHIN 6 FEET OF SINKS OR LAVATORIES SHALL BE GFCI TYPE.

G. PROVIDE A DEDICATED HOT, NEUTRAL, AND GROUND FOR ALL COPY MACHINES.

H. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2011 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.

I. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.

J. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

K. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.

L. PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.

M. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

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COMPOSITE ELECTRICAL POWER PLAN - UNIV. CAMPUS

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DBR Project Number	198008.000			
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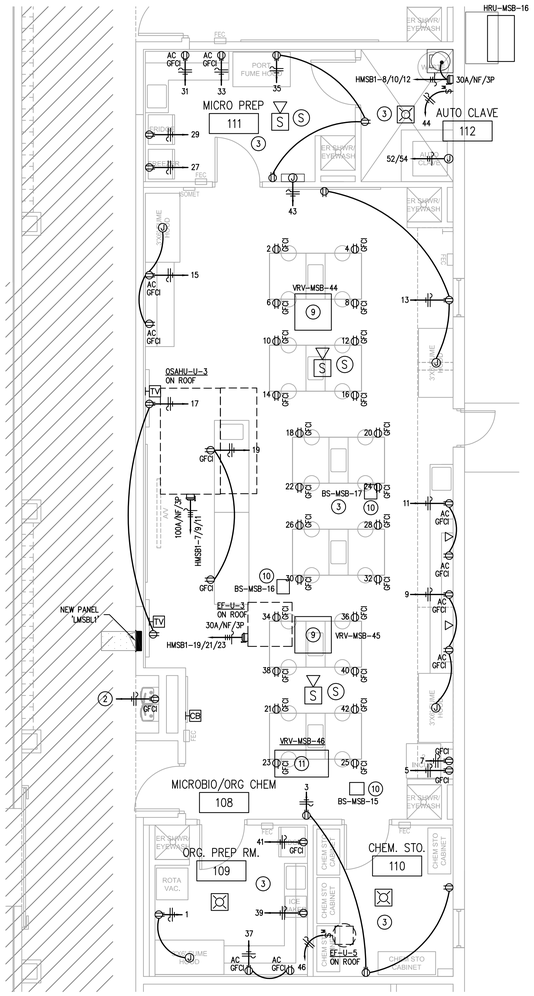

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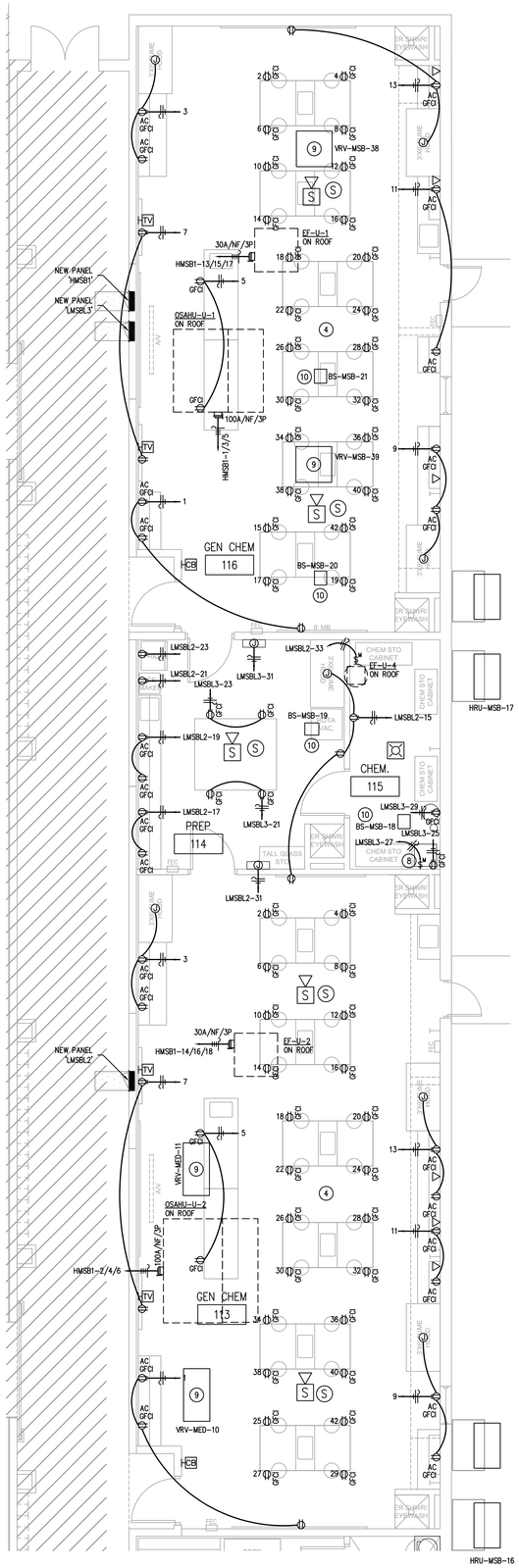
3/16"=1'-0"



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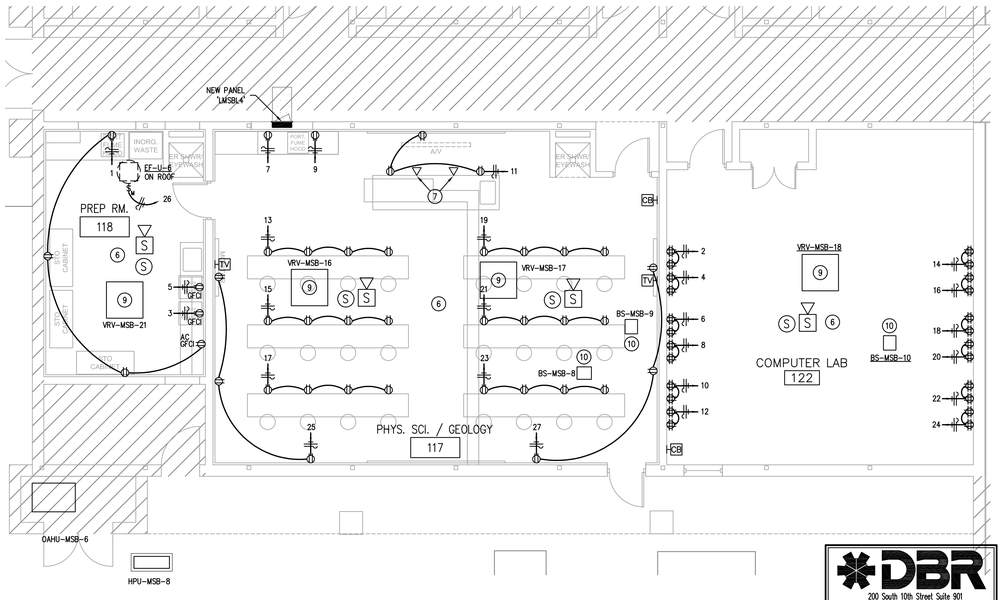

3 EP2.12U ENLARGED ELECTRICAL PLAN
3/16"=1'-0"

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL GROUP HOMERUNS WITH THREE HOTS (A,B, AND C PHASE), AND #10 NEUTRAL TO PROVIDE MULTI-WIRE BRANCH CIRCUITS. NO MORE THAN 2 MULTI-WIRE HOMERUNS PER CONDUIT.

B. CONTRACTOR SHALL VERIFY DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL CASEWORK AND MILLWORK ELEVATIONS.

C. ELECTRICAL CONTRACTOR SHALL REFERENCE TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUIT AND BACK BOX REQUIREMENTS. DIVISION 26 SHALL PROVIDE ALL PATHWAYS FOR LOW VOLTAGE SYSTEMS. DIVISION 26 CONTRACTOR SHALL COORDINATE WITH DIVISION 27 AND 28 CONTRACTORS FOR PATHWAY AND ROUGH-IN NEEDS.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL. ALL EXHAUST FANS SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH.

E. HVAC AND PLUMBING EQUIPMENT MAY DIFFER FROM LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTOR.

F. ALL RECEPTACLES MOUNTED ABOVE COUNTERS AND WITHIN 6 FEET OF SINKS OR LAVATORIES SHALL BE GFCI TYPE.

G. PROVIDE A DEDICATED HOT, NEUTRAL, AND GROUND FOR ALL COPY MACHINES.

H. CONTRACTOR SHALL PROVIDE HANDLE TIES MANUFACTURED BY THE SWITCH GEAR SUPPLIER ON ALL MULTI-WIRE CIRCUITS TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B) OF THE 2011 NEC. AT THE CONTRACTOR'S OPTION, TWO AND THREE POLE BREAKERS MAY BE USED.

I. CONTRACTOR SHALL INDICATE CIRCUIT SERVING EACH RECEPTACLE BY PROVIDING TYPE WRITTEN LABELING LOCATED ON INSIDE FACE OF EACH RECEPTACLE COVER PLATE.

J. ELECTRICAL CONTRACTOR SHALL ROUTE ELECTRICAL CONDUIT AND WIRING TO ALL ROOF HVAC EQUIPMENT THROUGH ROOF CURBS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

K. MECHANICAL CONTRACTOR SHALL FURNISH INTEGRAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26.

L. PROVIDE JUNCTION BOX AND POWER FOR ALL HARD WIRED PLUMBING FLUSH VALVES AND SENSOR EQUIPMENT TRANSFORMERS FROM NEAREST 120V/20A CIRCUIT. COORDINATE WITH PLUMBER PRIOR TO ROUGH-IN FOR EXACT LOCATION.

M. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. EACH GFCI PROTECTED RECEPTACLE SHARING THE SAME CIRCUIT SHALL HAVE ITS OWN RE-SET AND TEST BUTTON.

N. POWER TO RECEPTACLE DEVICES AT STUDENT STATIONS SHALL COME FROM BELOW SLAB. ROUTE CONDUIT IN SAME TRENCH AS PLUMBING UTILITIES AND STUB INTO FURNITURE STORAGE SPACE. REFER TO ARCHITECTURAL MILLWORK DETAILS FOR STUB UP LOCATION.

KEYED NOTES:

1. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED.
2. CONNECT TO EXISTING ELECTRICAL WATER COOLER CIRCUIT. FIELD VERIFY.
3. ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL1'.
4. ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL2'.
5. ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL3'.
6. ALL CIRCUIT IN THIS SPACE ARE FED FROM PANEL 'LMSBL4'.
7. PROVIDE SINGLE GANG BOX, 1" CONDUIT WITH PULL STRING FOR INSTALLATION OF DATA DEVICES. DEVICES AND CABLING INSTALLED BY SCHOOL DISTRICT. CONDUIT SHALL BE ROUTED BELOW SLAB. COORDINATE ROUTING WITH OTHER TRADES.
8. PROVIDE FLEXIBLE, LIQUID TIGHT CONNECTION TO PUMP.
9. EXTEND CONDUIT AND CIRCUIT WIRING TO RELOCATE VRV CASSETTE.
10. EXISTING BRANCH SELECTORS TO REMAIN.
11. CONNECT NEW VRV-MSB-46 EQUIPMENT TO EXISTING DISCONNECT AND CIRCUIT. EXTEND CONDUIT AND CIRCUIT WIRING AS REQUIRED.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

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Revisions:

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ENLARGED ELECTRICAL POWER PLANS - UNIV. CAMPUS

DBR
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TBPE Firm Registration No. 2234

DBR Project Number	198008.000			
DM	MG	JCH	TL	–

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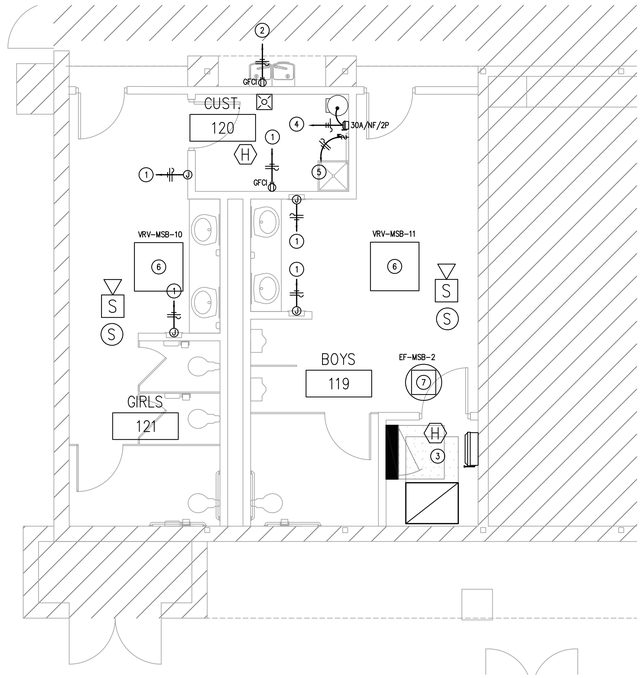

4 EP2.13U ENLARGED ELECTRICAL PLAN
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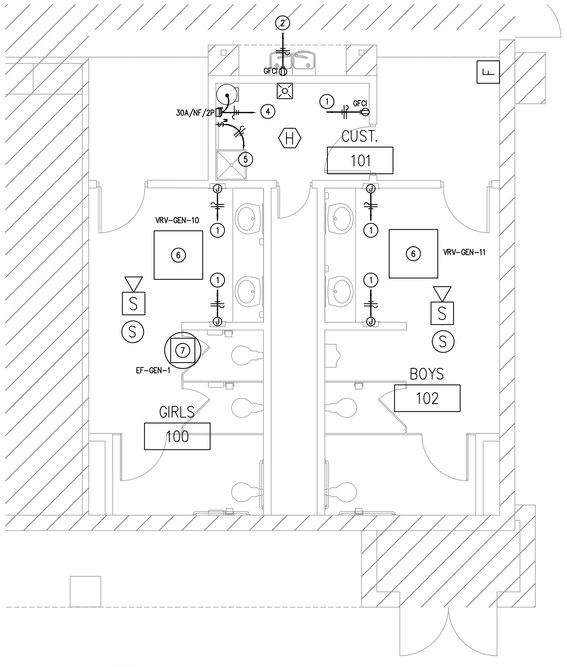

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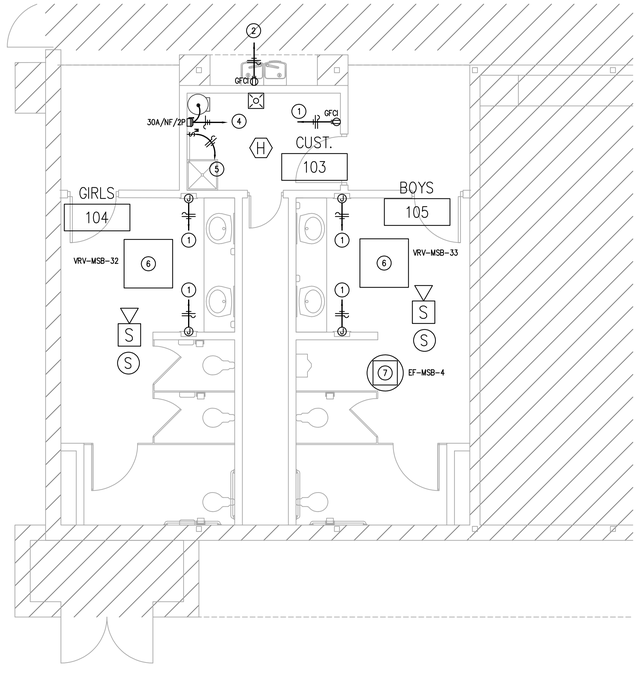

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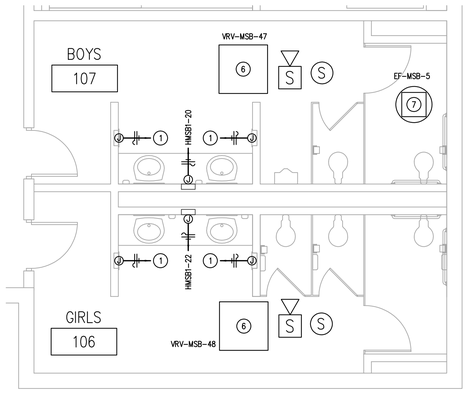

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GENERAL NOTES:

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KEYED NOTES:

1. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED.
2. CONNECT TO EXISTING ELECTRICAL WATER COOLER CIRCUIT. FIELD VERIFY.
3. RELOCATE EXISTING ELECTRICAL EQUIPMENT AS REQUIRED TO INSTALL WITHIN NEW ELECTRICAL CLOSET. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, FITTING, J-BOXES AND WIRING REQUIRED TO EXTEND ALL CIRCUITS.
4. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/2P BREAKER AS REQUIRED FOR ELECTRICAL CONNECTION TO WATER HEATER.
5. #12 WIRE, 3/4"C TO NEAREST PANEL. PROVIDE NEW 20A/1P BREAKER AS REQUIRED FOR ELECTRICAL CONNECTION TO CIRCULATION PUMP. PUMP SHALL BE CONTROLLED VIA TIME SWITCH, REFER TO PLUMBING SCHEDULE FOR TIME SWITCH TYPE. TIME SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
6. EXTEND CONDUIT AND CIRCUIT WIRING TO RELOCATE VRV CASSETTE.
7. EXISTING EXHAUST FAN TO REMAIN.

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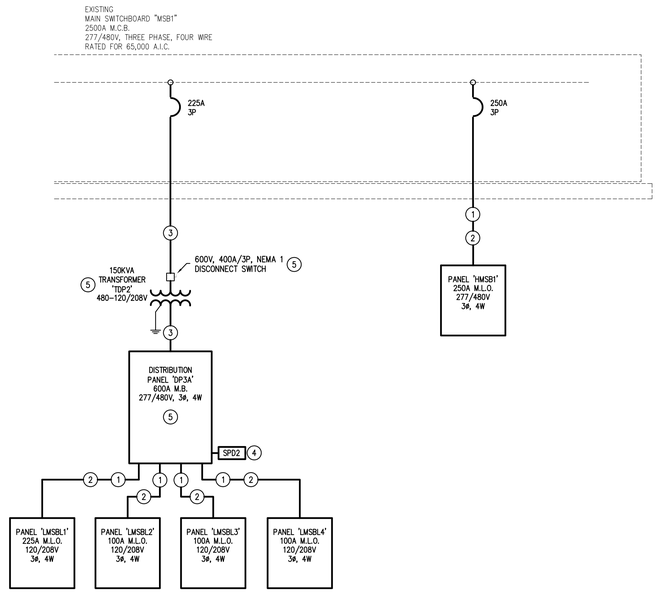

ONE-LINE KEYED NOTES:

1. ROUTE CONDUIT AND WIRE IN (OR ON TOP OF) NEW SIDEWALK CANOPY.
2. REFER TO FEEDER SCHEDULE FOR FEEDER SIZE REQUIREMENTS. (REFER TO E5.01U)
3. REFER TO DRY TYPE 3-PHASE TRANSFORMER FEEDER SCHEDULE FOR FEEDER SIZE REQUIREMENTS (REFER TO E5.01U)
4. REFER TO SPD SCHEDULE E5.01U. (TYPICAL)
5. LOCATED EQUIPMENT AT EXISTING CENTRAL PLANT FACILITY. FIELD VERIFY EXACT LOCATION OF BUILDING. CONTRACTOR SHALL LOCATE DISCONNECT, TRANSFORMER AND DISTRIBUTION PANEL AT AVAILABLE WALL SPACE.

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STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
76295
LICENSED
PROFESSIONAL ENGINEER
05-10-19

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NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
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Scale:	1/4" = 1'-0"
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Revisions:

Sheet Title:

ELECTRICAL SINGLE LINE DIAGRAM

E4.01U

May 08, 2019 - 6:50pm User: jchavez
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DRY TYPE 3-PHASE TRANSFORMER FEEDER SCHEDULE

PRIMARY VOLTAGE				SECONDARY VOLTAGE			
480V, THREE PHASE				120/208V, THREE PHASE, FOUR WIRE			
KVA	FEEDER	CONDUIT	BREAKER	FEEDER	CONDUIT	BREAKER	GND. ELEC. SIZE
9	3 #12, 1 #12 GND.	3/4" C.	15A/3P	4 #10, 1 #10 GND.	3/4"	30A/3P	#8
15	3 #10, 1 #10 GND.	3/4" C.	25A/3	4 #6, 1 #10 GND.	1"	60A/3P	#8
30	3 #8, 1 #10 GND.	1" C.	45A/3P	4 #3, 1 #8 GND.	1 1/4"	100A/3P	#8
45	3 #4, 1 #8 GND.	1 1/4" C.	70A/3P	4 #1/0, 1 #6 GND.	1 1/2"	150A/3P	#6
75	3 #1, 1 #6 GND.	1 1/4" C.	125A/3P	4 #250KCMIL, 1 #6 GND.	3"	250A/3P	#2
112.5	3 #2/0, 1 #6 GND.	1 1/2" C.	175A/3P	4 #600KCMIL, 1 #3 GND.	4"	400A/3P	#1/0
150	3 #4/0, 1 #4 GND.	2" C.	225A/3P	(2) SETS OF 4 #250KCMIL, 1 #2 GND.	(2) 2 1/2"	500A/3P	#1/0
225	3 #500KCMIL, 1 #3 GND.	3" C.	350A/3P	(2) SETS OF 4 #500KCMIL, 1 #1/0 GND.	(2) 3 1/2"	800A/3P	#3/0
300	(2) SETS OF 3 #4/0, 1 #2 GND.	(2) 2 1/2" C.	450A/3P	(3) SETS OF 4 #500KCMIL, 1 #2/0 GND.	(3) 3 1/2"	1000A/3P	#3/0
400	(2) SETS OF 3 #350 KCMIL, 1 #1 GND.	(2) 2 1/2" C.	600A/3P	(4) SETS OF 4 #500KCMIL, 1 #4/0 GND.	(4) 4"	1600AF/1400AT/3P	#3/0
500	(2) SETS OF 3 #500 KCMIL, 1 #1/0 GND.	(2) 3" C.	800A/3P	(5) SETS OF 4 #500KCMIL, 1 #250KCMIL GND.	(5) 4"	2000A/1800AT/3P	#3/0
750	(4) SETS OF 3 #350 KCMIL, 1 #3/0 GND.	(4) 2 1/2" C.	1200A/3P	(7) SETS OF 4 #500CMIL, 1 #350KCMIL GND.	(7) 4"	2500A/3P	#3/0

SPD SCHEDULE

MARK	MANUFACTURER	MODEL	RATING PHASE TO PHASE	LIEBERT ACCUGUIDE CABLE SIZE
SPD 1	LIEBERT	560YC12ANCG1S	250 kA	5 #6, 1 1/2" C
SPD 2	LIEBERT	510YA08ANAJ2S	160 kA	5 #10, 1 1/2" C
SPD 3	LIEBERT	510YC08ANAJ2S	160 kA	5 #6, 1 1/2" C

FEEDER SCHEDULE

	COPPER CONDUCTORS			ALUMINUM CONDUCTORS		
AMPERAGE	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)
30A	1	4#10, 1#10 G.	3/4"C	1	N/A	N/A
40A	1	4#8, 1#10 G.	1"C	1	N/A	N/A
50A	1	4#8, 1#10 G.	1"C	1	N/A	N/A
60A	1	4#6, 1#10 G.	1"C	1	N/A	N/A
70A	1	4#4, 1#8 G.	1 1/4"C	1	N/A	N/A
80A	1	4#4, 1#8 G.	1 1/4"C	1	N/A	N/A
90A	1	4#3, 1#8 G.	1 1/4"C	1	N/A	N/A
100A	1	4#3, 1#8 G.	1 1/4"C	1	N/A	N/A
125A	1	4#1, 1#6 G.	1 1/2"C	1	N/A	N/A
150A	1	4#1/0, 1#6 G.	1 1/2"C	1	N/A	N/A
175A	1	4#2/0, 1#6 G.	2"C	1	N/A	N/A
200A	1	4#3/0, 1#6 G.	2"C	1	4#250KCMIL, 1#4G.	2 1/2"C
225A	1	4#4/0, 1#4 G.	2 1/2"C	1	4#300KCMIL, 1#2G.	3"C
250A	1	4#250KCMIL, 1#4 G.	2 1/2"C	1	4#350KCMIL, 1#2G.	3"C
300A	1	4#350KCMIL, 1#4 G.	3"C	1	4#500KCMIL, 1#2G.	4"C
350A	1	4#500KCMIL, 1#3 G.	3 1/2"C	2	4#4/0, 1#1G.	2 1/2"C
400A	1	4#500KCMIL, 1#3 G.	4"C	2	4#250KCMIL, 1#1G.	2 1/2"C
450A	2	4#4/0, 1#2 G.	2 1/2"C	2	4#300KCMIL, 1#1/0G.	3"C
500A	2	4#250KCMIL, 1#2G.	2 1/2"C	2	4#350KCMIL, 1#1/0G.	3"C
600A	2	4#350KCMIL, 1#1G.	3"C	2	4#500KCMIL, 1#2/0G.	3"C
700A	2	4#500KCMIL, 1#1/0G.	4"C	3	4#350KCMIL, 1#3/0G.	3"C
800A	2	4#600KCMIL, 1#1/0G.	4"C	3	4#400KCMIL, 1#3/0G.	3"C
1000A	3	4#500KCMIL, 1#2/0G.	4"C	4	4#350KCMIL, 1#4/0G.	4"C
1200A	4	4#350KCMIL, 1#3/0G.	3"C	4	4#500KCMIL, 1#250KCMIL G.	4"C
1600A	4(600) OR 5(500)	4#600KCMIL, 1#4/0G. OR 4#500KCMIL, 1#4/0G.	4"C	5	4#750KCMIL, 1#350KCMIL G.	4"C
2000A	5(600) OR 6(500)	4#600KCMIL, 1#250KCMIL G. OR 4#500KCMIL, 1#250KCMIL G.	4"C	6	4#750KCMIL, 1#400KCMIL G.	4"C
2500A	6(600) OR 7(500)	4#600KCMIL, 1#350KCMIL G. OR 4#500KCMIL, 1#350KCMIL G.	4"C	7	4#750KCMIL, 1#600KCMIL G.	4"C
3000A	8(500)	4#500KCMIL, 1#400KCMIL G.	4"C	8	4#750KCMIL, 1#600KCMIL G.	4"C
3500A	9(600) OR 10(500)	4#600KCMIL, 1#500KCMIL G. OR 4#500KCMIL, 1#500KCMIL G.	4"C	10	4#750KCMIL, 1#750KCMIL G.	4"C
4000A	10(600) OR 11(500)	4#600KCMIL, 1#500KCMIL G. OR 4#500KCMIL, 1#500KCMIL G.	4"C	11	4#750KCMIL, 1#750KCMIL G.	4"C
5000A	12(600) OR 14(500)	4#600KCMIL, 1#700KCMIL G. OR 4#500KCMIL, 1#700KCMIL G.	4"C	13	4#750KCMIL, 2#600KCMIL G.	5"C

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
2. ALUMINUM FEEDERS ARE NOT APPROVED FOR USE ON THE FOLLOWING:
   - CHILLERS
   - TRANSFORMER SECONDARY
   - ELEVATORS
   - VARIABLE FREQUENCY DRIVE
3. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
4. GROUND NOT REQUIRED AT SERVICE LATERAL.
5. ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS RATED FOR GREATER THAN 200 AMPS EXCEPT FOR EQUIPMENT LOADS. ALL MOTORS, CHILLERS, ETC. SHALL REQUIRE THE USE OF COPPER CONDUCTORS ONLY.

Panelboard DP3A

42,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire; 1 Section; 1 -Nema Rating | X MCB 500 AMP MCB; MLO 600 AMP BUS (Copper) | X Single; Double; Feed - Thru | Mounting; X Surface; Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	12310		SP			1	A	2			SP		10800	
	17238	PANEL 'LMSBL1'	SP	3/0	200/3	3	B	4	100/3	3	SP	PANEL 'LMSBL2'	11328	
	16530		SP			5	C	6			SP		10800	
	10400		SP			7	A	8			SP		6108	
	9860	PANEL 'LMSBL3'	SP	3	100/3	9	B	10	100/3	3	SP	PANEL 'LMSBL4'	5760	
	9860		SP			11	C	12			SP		5580	
		SPACE				13	A	14				SPACE		
		SPACE				15	B	16				SPACE		
		SPACE				17	C	18				SPACE		
	76,198	Subtotal										Subtotal	50,376	

N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0	220.12	(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	0	125%	0
630.11	(W) Welders	0		0		(SP) Sub Panel	126,574	100%	126,574
	(M) Misc.	0	100%	0					

Total Connected Load = 126,574 VA = 351.6 AMPS
Total Load (Diversified)= 126,574 VA = 351.6 AMPS
Location of Panel:

Panelboard HMSB1

65,000 AIC Rating
Existing
X New

277/480 Volt,3-Phase,4-Wire; 1 Section; 1 -Nema Rating | MCB 0 AMP MCB; X MLO 225 AMP BUS (Copper) | X Single; Double; Feed - Thru | Mounting; Surface; X Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	14189		C			1	A	2			C		16849	
	14189	OSAHU-1	C	4	70/3	3	B	4	80/3	4	C	OSAHU-2	16849	
	14189		C			5	C	6			C		16849	
	14189		C			7	A	8			WH		5000	
	14189	OSAHU-3	C	4	70/3	9	B	10	25/3	10	WH	EWH-4	5000	
	14189		C			11	C	12			WH		5000	
	942		MT			13	A	14			MT		2106	
	942	EF-U-1	MT	12	15/3	15	B	16	15/3	12	MT	EF-U-2	2106	
	942		MT			17	C	18			MT		2106	
	942		MT			19	A	20	40/1	8	WH	IWH-1	8320	
	942	EF-U-3	MT	12	15/3	21	B	22	40/1	8	WH	IWH-2	8320	
	942		MT			23	C	24				SPACE		
		SPACE				25	A	26				SPACE		
		SPACE				27	B	28				SPACE		
		SPACE				29	C	30				SPACE		
	90,786	Subtotal										Subtotal	88,505	

N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	0		0	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0	220.12	(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	135,681	100%	135,681	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	31,640	100%	31,640
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	11,970	125%	14,963
630.11	(W) Welders	0		0		(SP) Sub Panel	0	100%	0
	(M) Misc.	0	100%	0					

Total Connected Load = 179,291 VA = 215.8 AMPS
Total Load (Diversified)= 182,284 VA = 219.4 AMPS
Location of Panel:

Panelboard LMSBL3

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire; 1 Section; 1 -Nema Rating | MCB 0 AMP MCB; X MLO 100 AMP BUS (Copper) | X Single; Double; Feed - Thru | Mounting; Surface; X Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	900	RM116-FRONT COUNT.	R	12	20/1	1	A	2	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-FRONT COUNT.	R	12	20/1	3	B	4	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-TEACHERS STA.	R	12	20/1	5	C	6	20/1	12	R	RM116-STUDENT STA.	900	
	720	RM116-TV'S	R	12	20/1	7	A	8	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-REAR COUNT.	R	12	20/1	9	B	10	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-REAR COUNT.	R	12	20/1	11	C	12	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-REAR COUNT.	R	12	20/1	13	A	14	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-STUDENT STA.	R	12	20/1	15	B	16	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-STUDENT STA.	R	12	20/1	17	C	18	20/1	12	R	RM116-STUDENT STA.	900	
	900	RM116-STUDENT STA.	R	12	20/1	19	A	20	20/1	12	R	RM116-STUDENT STA.	900	
	360	PREP114	R	12	20/1	21	B	22	20/1	12	R	RM116-STUDENT STA.	900	
	360	PREP114	R	12	20/1	23	C	24	20/1	12	R	RM116-STUDENT STA.	900	
	500	DI-1	R	12	20/1	25	A	26	20/1	12	R	RM116-STUDENT STA.	900	
	500	DP-1	MT	12	20/1	27	B	28	20/1	12	R	RM116-STUDENT STA.	900	
	500	WSU-1	R	12	20/1	29	C	30	20/1	12	R	RM116-STUDENT STA.	900	
	180	LAB UTILITY CONTROL	M	12	20/1	31	A	32	20/1	12	R	RM116-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	33	B	34	20/1	12	R	RM116-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	35	C	36	20/1	12	R	RM116-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	37	A	38	20/1	12	R	RM116-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	39	B	40	20/1	12	R	RM116-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	41	C	42	20/1	12	R	RM116-STUDENT STA.	900	
	11,220	Subtotal										Subtotal	18,900	

N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	29,440		19,720	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0	220.12	(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	500	125%	625
630.11	(W) Welders	0		0		(SP) Sub Panel	0	100%	0
	(M) Misc.	180	100%	180					

Total Connected Load = 30,120 VA = 83.7 AMPS
Total Load (Diversified)= 20,525 VA = 57.0 AMPS
Location of Panel:

Panelboard LMSBL1

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire; 1 Section; 1 -Nema Rating | MCB 0 AMP MCB; X MLO 225 AMP BUS (Copper) | X Single; Double; Feed - Thru | Mounting; Surface; X Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	900	RM109	R	12	20/1	1	A	2	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM110	R	12	20/1	3	B	4	20/1	12	R	RM108-STUDENT STA.	900	
	720	RM108-INCUBATOR	M	12	20/1	5	C	6	20/1	12	R	RM108-STUDENT STA.	900	
	720	RM108-INCUBATOR	M	12	20/1	7	A	8	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-REAR COUNT.	R	12	20/1	9	B	10	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-REAR COUNT.	R	12	20/1	11	C	12	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-REAR COUNT.	R	12	20/1	13	A	14	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-FRONT COUNT.	R	12	20/1	15	B	16	20/1	12	R	RM108-STUDENT STA.	900	
	720	RM108-TV'S	R	12	20/1	17	C	18	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-TEACHERS STA.	R	12	20/1	19	A	20	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-STUDENT STA.	R	12	20/1	21	B	22	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-STUDENT STA.	R	12	20/1	23	C	24	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM108-STUDENT STA.	R	12	20/1	25	A	26	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM111	R	12	20/1	27	B	28	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM111	R	12	20/1	29	C	30	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM111	R	12	20/1	31	A	32	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM111	R	12	20/1	33	B	34	20/1	12	R	RM108-STUDENT STA.	900	
	900	RM111	R	12	20/1	35	C	36	20/1	12	R	RM108-STUDENT STA.	900	
	360	RM109-COUNTER	R	12	20/1	37	A	38	20/1	12	R	RM108-STUDENT STA.	900	
	360	RM109-ICE MAKER	R	12	20/1	39	B	40	20/1	12	R	RM108-STUDENT STA.	900	
	540	RM109-REFRIGERATOR	R	12	20/1	41	C	42	20/1	12	R	RM108-STUDENT STA.	900	
	180	LAB UTILITY CONTROL	M	12	20/1	43	A	44	20/1	12	MT	CIRCULATION PUMP CP-4	250	
		SPARE BREAKER		12	20/1	45	B	46	20/1	12	MT	EF-U-5	528	
		SPARE BREAKER		12	20/1	47	C	48	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	49	A	50	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	51	B	52	60/2	6	M	AUTOCLAVE	4650	
		SPARE BREAKER		12	20/1	53	C	54			M		4650	
	17,100	Subtotal										Subtotal	28,978	

N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	34,380		22,190	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0	220.12	(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	778	125%	973
630.11	(W) Welders	0		0		(SP) Sub Panel	0	100%	0
	(M) Misc.	10,920	100%	10,920					

Total Connected Load = 46,078 VA = 128.0 AMPS
Total Load (Diversified)= 34,083 VA = 94.7 AMPS
Location of Panel:

Panelboard LMSBL4

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire; 1 Section; 1 -Nema Rating | MCB 0 AMP MCB; X MLO 100 AMP BUS (Copper) | X Single; Double; Feed - Thru | Mounting; Surface; X Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	720	RM118	R	12	20/1	1	A	2	20/1	12	R	RM122-COMPUTERS	720	
	900	RM118-ICEMAKER	R	12	20/1	3	B	4	20/1	12	R	RM122-COMPUTERS	720	
	900	RM118-REFRIGERATOR	R	12	20/1	5	C	6	20/1	12	R	RM122-COMPUTERS	720	
	180	RM117-FRONT COUNT.	R	12	20/1	7	A	8	20/1	12	R	RM122-COMPUTERS	720	
	180	RM117-FRONT COUNT.	R	12	20/1	9	B	10	20/1	12	R	RM122-COMPUTERS	720	
	360	RM117-TEACHERS STA.	R	12	20/1	11	C	12	20/1	12	R	RM122-COMPUTERS	720	
	720	RM117-STUDENT STA.	R	12	20/1	13	A	14	20/1	12	R	RM122-COMPUTERS	720	
	720	RM117-STUDENT STA.	R	12	20/1	15	B	16	20/1	12	R	RM122-COMPUTERS	720	
	720	RM117-STUDENT STA.	R	12	20/1	17	C	18	20/1	12	R	RM122-COMPUTERS	720	
	720	RM117-STUDENT STA.	R	12	20/1	19	A	20	20/1	12	R	RM122-COMPUTERS	720	
	720	RM117-STUDENT STA.	R	12	20/1	21	B	22	20/1	12	R	RM122-COMPUTERS	720	
	720	RM117-STUDENT STA.	R	12	20/1	23	C	24	20/1	12	R	RM122-COMPUTERS	720	
	360	RM117	R	12	20/1	25	A	26	20/1	12	MT	EF-U-6	528	
	360	RM117	R	12	20/1	27	B	28	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	29	C	30	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	31	A	32	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	33	B	34	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	35	C	36	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	37	A	38	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	39	B	40	20/1	12		SPARE BREAKER		
		SPARE BREAKER		12	20/1	41	C	42	20/1	12		SPARE BREAKER		
	8,280	Subtotal										Subtotal	9,168	

N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	16,920		13,460	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0	220.12	(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	528	125%	660
630.11	(W) Welders	0		0		(SP) Sub Panel	0	100%	0
	(M) Misc.	0	100%	0					

Total Connected Load = 17,448 VA = 48.5 AMPS
Total Load (Diversified)= 14,120 VA = 39.2 AMPS
Location of Panel:

Panelboard LMSBL2

10,000 AIC Rating
Existing
X New

120/208 Volt,3-Phase,4-Wire; 1 Section; 1 -Nema Rating | MCB 0 AMP MCB; X MLO 100 AMP BUS (Copper) | X Single; Double; Feed - Thru | Mounting; Surface; X Flush

Notes	Load (VA)	Description	Type	Wire	CB	CKT #	PH	CKT #	CB	Wire	Type	Description	Load (VA)	Notes
	900	RM113-FRONT COUNT.	R	12	20/1	1	A	2	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-FRONT COUNT.	R	12	20/1	3	B	4	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-TEACHERS STA.	R	12	20/1	5	C	6	20/1	12	R	RM113-STUDENT STA.	900	
	720	RM113-TV'S	R	12	20/1	7	A	8	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-REAR COUNT.	R	12	20/1	9	B	10	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-REAR COUNT.	R	12	20/1	11	C	12	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-REAR COUNT.	R	12	20/1	13	A	14	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM114, RM115	R	12	20/1	15	B	16	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM114-COUNTER	R	12	20/1	17	C	18	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM114-COUNTER	R	12	20/1	19	A	20	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM114-ICE MAKER	R	12	20/1	21	B	22	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM114-REFRIGERATOR	R	12	20/1	23	C	24	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-STUDENT STA.	R	12	20/1	25	A	26	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-STUDENT STA.	R	12	20/1	27	B	28	20/1	12	R	RM113-STUDENT STA.	900	
	900	RM113-STUDENT STA.	R	12	20/1	29	C	30	20/1	12	R	RM113-STUDENT STA.	900	
	180	LAB UTILITY CONTROL	M	12	20/1	31	A	32	20/1	12	R	RM113-STUDENT STA.	900	
	528	EF-U-4	MT	12	20/1	33	B	34	20/1	12	R	RM113-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	35	C	36	20/1	12	R	RM113-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	37	A	38	20/1	12	R	RM113-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	39	B	40	20/1	12	R	RM113-STUDENT STA.	900	
		SPARE BREAKER		12	20/1	41	C	42	20/1	12	R	RM113-STUDENT STA.	900	
	14,028	Subtotal										Subtotal	18,900	

N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity	N.E.C. (2011)	Load Type	Conn.	Fct.	Diversity
220.44	(R) Recept.	32,220		21,110	220.12	(L) Lighting	0	125%	0
220.56	(K) Kitchen	0	100%	0	220.12	(EL) Ext. Ltg.	0	125%	0
220.60	(C) Cooling	0	0%	0	620.14	(E) Elevators	0	100%	0
220.60	(H) Heating	0	0%	0		(WH) Water Ht.	0	100%	0
220.60	(F) Fans	0	100%	0	220.5	(MT) Lrg. Mot.	528	125%	660
630.11	(W) Welders	0		0		(SP) Sub Panel	0	100%	0
	(M) Misc.	180	100%	180					

Total Connected Load = 32,928 VA = 91.5 AMPS
Total Load (Diversified)= 21,950 VA = 61.0 AMPS
Location of Panel:

LIGHT FIXTURE SCHEDULE

TYPE	MANUF.	CATALOG No.	MOUNTING	LAMPS #	LAMPS TYPE	LAMPS COLOR	VOLTAGE	INPUT W	MOUNTING HEIGHT *	REMARKS	NOTES:
X	LITHONIA	LQM-S-W-3-R-120/277-EL N	SURFACE	-	LED	-	MVOLT	6	-	LED EXIT SIGN WITH RED LETTERING.	

* MOUNTING HEIGHT APPLIES TO ALL FIXTURES NOT SURFACE MOUNTED TO CEILING OR STRUCTURE, OR RECESSED INTO CEILING. MOUNT ALL FIXTURES TO SCHEDULED MOUNTING HEIGHT, MEASURED TO BOTTOM OF FIXTURE, UNLESS NOTED OTHERWISE ON DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT. SEE ARCHITECTURAL ELEVATIONS.

NOTES:

ALL FIXTURES WITH 'E' SUFFIX (A1E) SHALL HAVE [**BODINE GTD -OR- EMERGENCY BATTERY PACK**].

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Consultants:

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DBR ENGINEERING

STATE OF TEXAS
KEVIN DAN MILGRIM
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05-10-2019

COLLEGE[3]
READY. CONNECTED. COMPLETE.

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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
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Revisions:

Sheet Title:

ELECTRICAL SCHEDULES

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM | MG | JCH | TL | –

E5.01U

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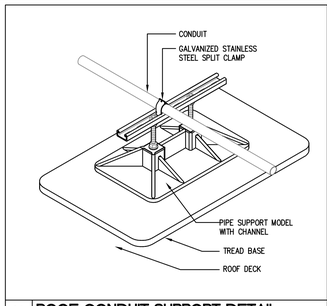

16 ROOF CONDUIT SUPPORT DETAIL
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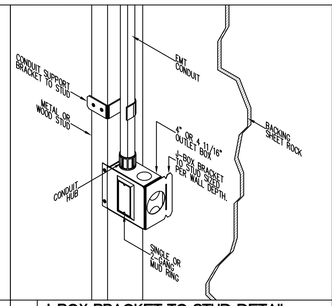
EPC017.DWG



12 J-BOX BRACKET TO STUD DETAIL
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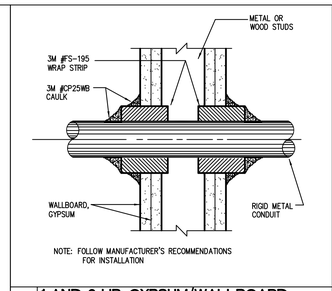
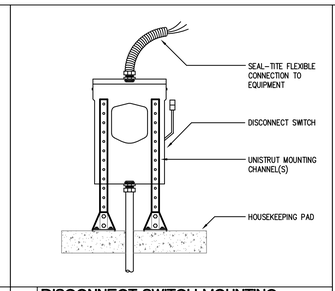


8 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION
NOT TO SCALE



4 DISCONNECT SWITCH MOUNTING AT CONCRETE PAD
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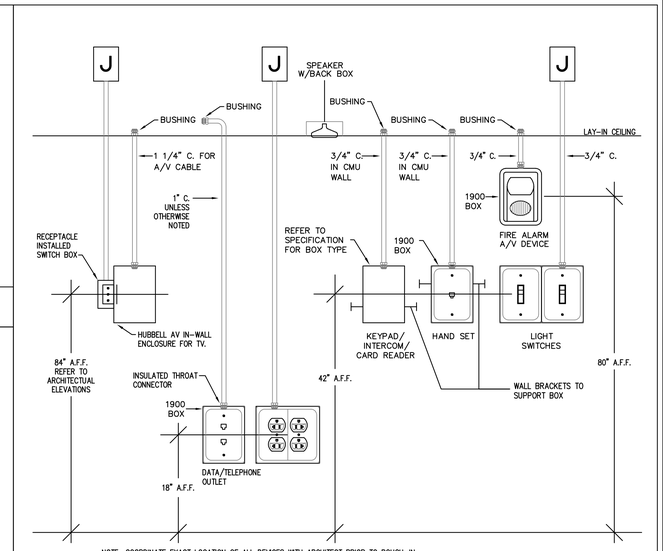

1 TYPICAL DEVICE ELEVATIONS
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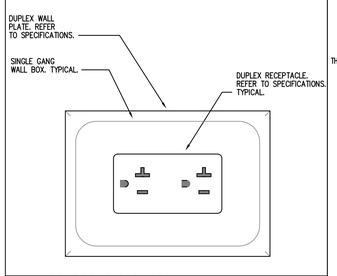

13 HORIZONTAL RECEPTACLE MOUNTING DETAIL
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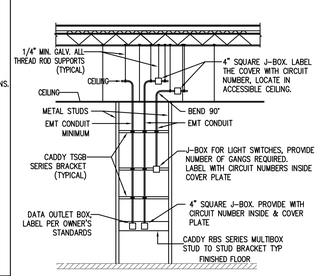

9 CONDUIT ROUGH-IN DETAIL
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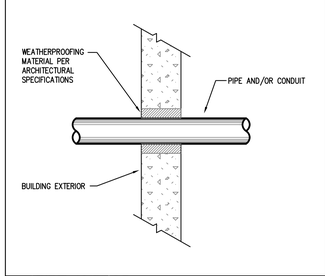

5 PIPE AND/OR CONDUIT PENETRATION
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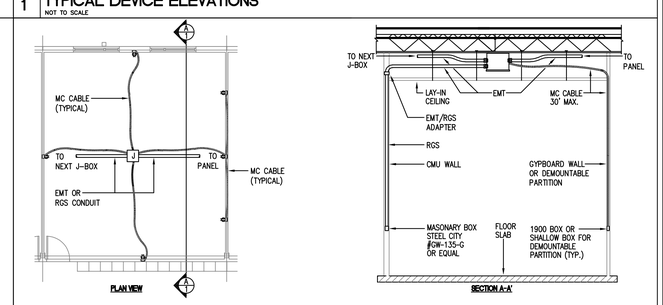
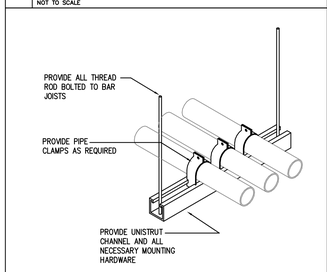


2 TYP. RACEWAY CONFIGURATION USING METAL CLAD (MC) CABLE
NOT TO SCALE



14 UNISTRUT CONDUIT DETAIL
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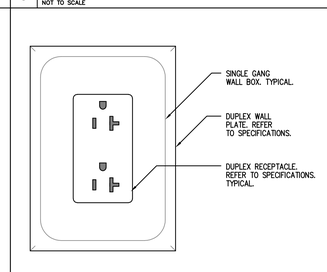

10 TYPICAL RECEPTACLE MOUNTING DETAIL
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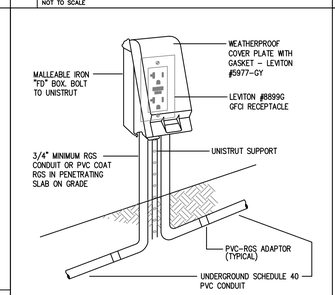
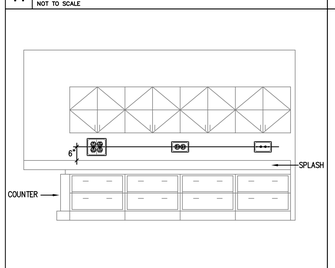


6 RECEPTACLE MOUNTING DETAIL
NOT TO SCALE



15 TYPICAL COUNTERTOP DEVICE ELEVATION
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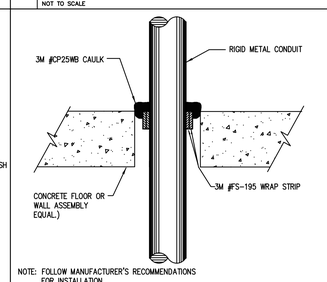
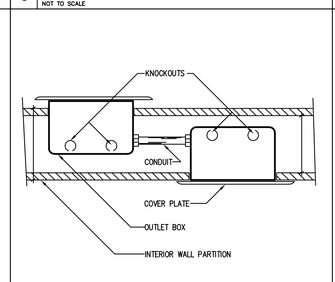


11 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE FLOOR AND WALL
NOT TO SCALE



7 BACK-TO-BACK OUTLETS
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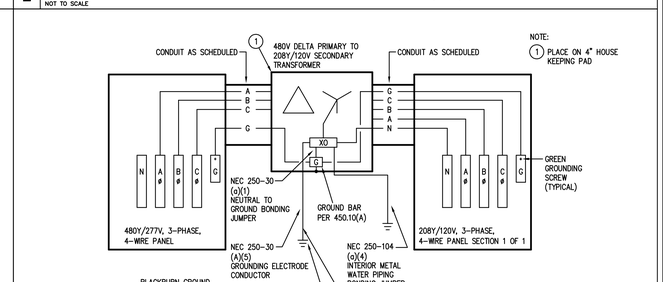

3 TRANSFORMER WIRING SCHEMATIC
NOT TO SCALE

GIGNAC | ARCHITECTS
416 STARR STREET
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KEVIN DAN MILGRIM
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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
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Checked:	JM
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ACAD File:	A-240-U

Revisions:

Sheet Title:

ELECTRICAL DETAILS

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number	198008.000

DM	MG	JCH	TL	–

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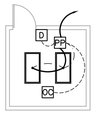
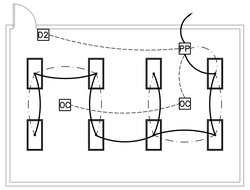


CONTROL LEGEND

- D — GREENGATE #RC-3 WALL SWITCH 1 CHANNEL ON/OFF WITH DIMMING
- PP — GREENGATE #RC3DE-PL POWER/RELAY PACK (ABOVE CEILING)
- OC — GREENGATE #OAC-DT-2000-R STANDARD RANGE OCCUPANCY SENSOR
- LINE VOLTAGE WIRING
- 0-10V DIMMING WIRING
- CAT5 CABLE

1 / E6.02U TYPICAL OFFICE LIGHTING CONTROL DETAIL

N.T.S.

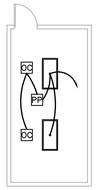


CONTROL LEGEND

- D2 — GREENGATE #RC-6 ROOM CONTROLLER SWITCH 2 CHANNEL ON/OFF WITH DIMMING
- PP — GREENGATE #RC3DE-PL POWER/RELAY PACK (ABOVE CEILING)
- OC — ACUITY nCM PDT 9 STANDARD RANGE OCCUPANCY SENSOR
- LINE VOLTAGE WIRING
- 0-10V DIMMING WIRING
- CAT5 CABLE

2 / E6.02U TYPICAL CLASSROOM/LARGE ROOM LIGHTING CONTROL DETAIL

N.T.S.

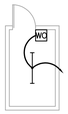


CONTROL LEGEND

- OC — GREENGATE #OAC-DT-2000-R CEILING MOUNTED OCCUPANCY SENSOR
- PP — GREENGATE #SP20-MV POWER/RELAY PACK (ABOVE CEILING)

3 / E6.02U TYPICAL RESTROOM LIGHTING CONTROL DETAIL

N.T.S.

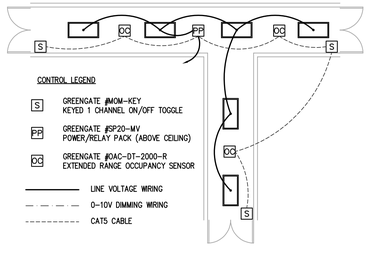


CONTROL LEGEND

- WC — GREENGATE #ONW-D-1001-MV-N-X WALL MOUNTED OCCUPANCY SENSOR

4 / E6.02U TYPICAL UTILITY ROOM LIGHTING CONTROL DETAIL

N.T.S.



CONTROL LEGEND

- S — GREENGATE #MOM-KEY KEYED 1 CHANNEL ON/OFF TOGGLE
- PP — GREENGATE #SP20-MV POWER/RELAY PACK (ABOVE CEILING)
- OC — GREENGATE #OAC-DT-2000-R EXTENDED RANGE OCCUPANCY SENSOR
- LINE VOLTAGE WIRING
- 0-10V DIMMING WIRING
- CAT5 CABLE

5 / E6.02U TYPICAL CORRIDOR LIGHTING CONTROL DETAIL

N.T.S.

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AND

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TBPE Firm Registration No. 2234

DBR Project Number	198008.000

DM	MG	JCH	TL	–

E6.02U

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PLUMBING SYMBOLS AND ABBREVIATIONS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
AC	ABOVE CEILING
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CP	CIRCULATING PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CONT	CONTINOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CRAC	COMPUTER ROOM A/C UNIT
CTR	CENTER
CU	COPPER
CW	COLD WATER

D

D	DEPTH, DRAIN, DRYER
DESIG	DESIGNATION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT, DOUBLE SUCTON
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP

E

EA	EACH
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPTMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EXT	EXTERNAL
EXTG	EXISTING

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATON
FD	FLOOR DRAIN, FIRE DAMPER
FDSC	FIRE DEPARTMENT SIAMESE CONNECTION
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FIXT	FIXTURE
FLEX	FLEXIBLE
FL	FLOW LINES
FLR	FLOOR
FP	FIRE PUMP
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FSK	FLOOR SINK
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HORIZ	HORIZONTAL
HP	HORSEPOWER
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT– AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWCO	LOW WATER CUT OFF

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE–UP

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK
O	MEDICAL OXYGEN

P

P	PUMP, PLUMBING EQUIPTMENT
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE, POST HYDRANT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI.	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REINF	REININGFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SCHED	SCHEDULED
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER

T

TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TYP	TYPICAL

U

U	URINAL
UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VERT	VERTICAL
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWF	WELDED WIRE FABRIC
WT	WATERTIGHT, WEIGHT

Y

Y	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

	SANITARY DRAIN BELOW FLOOR
	SANITARY DRAIN ABOVE FLOOR
	SANITARY VENT
GW	GREASE WASTE(ABOVE CEILING)
GW	GREASE WASTE(BELOW FLOOR)
SD	STORM DRAIN(ABOVE CEILING)
SD	STORM DRAIN(BELOW FLOOR)
OD	OVERFLOW DRAIN(ABOVE CEILING)
OD	OVERFLOW DRAIN(BELOW FLOOR)
AW	ACID WASTE(ABOVE CEILING)
AW	ACID WASTE(BELOW FLOOR)
AV	ACID VENT(ABOVE CEILING OR BELOW FLOOR)
	COLD WATER
110°	HOT WATER(FINAL DELIVERY TEMPERATURE AS NOTED)
110°	HOT WATER RECIRCULATION (TEMPERATURE AS NOTED)
G	NATURAL GAS
T 110°	TEMPERED WATER(FINAL DELIVERY TEMPERATURE AS NOTED)
CA	COMPRESSED AIR
A	MEDICAL AIR
O	MEDICAL OXYGEN
V	MEDICAL VACUUM
F	FIRE STANDPIPE, FIRE LINE
FS	WET AUTOMATIC FIRE SPRINKLER
TP	TRAP PRIMER
D	DRAIN LINE
SW	SOFT WATER

SYMBOLS

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- PIPE ANCHOR
- EXPANSION JOINT
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO–WAY MODULATING CONTROL VALVE
- THREE–WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- YARD CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- WATER METER
- FLEXIBLE CONNECTION
- PRESSURE AND TEMPERATURE TAP
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- WATER HAMMER ARRESTOR
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING

MISCELLANEOUS

1	PLUMBING DRAWING NOTE REFERENCE
2 / P2.1	DETAIL NUMBER OR PLAN SHEET WHERE DETAIL OR PLAN IS SHOWN
FS	FLOW SWITCH
TS	TAMPER SWITCH
	FIRE HOSE CABINET
	FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
	FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
2 / P7.1	PLUMBING RISER DIAGRAM NUMBER SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

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05-10-2019

PSJA COLLEGE³ READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE

AND

UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

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Sheet Title:

PLUMBING LEGENDS

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DBR Project Number	198008.000

DM	MG	JCH	TL	–

P-000U

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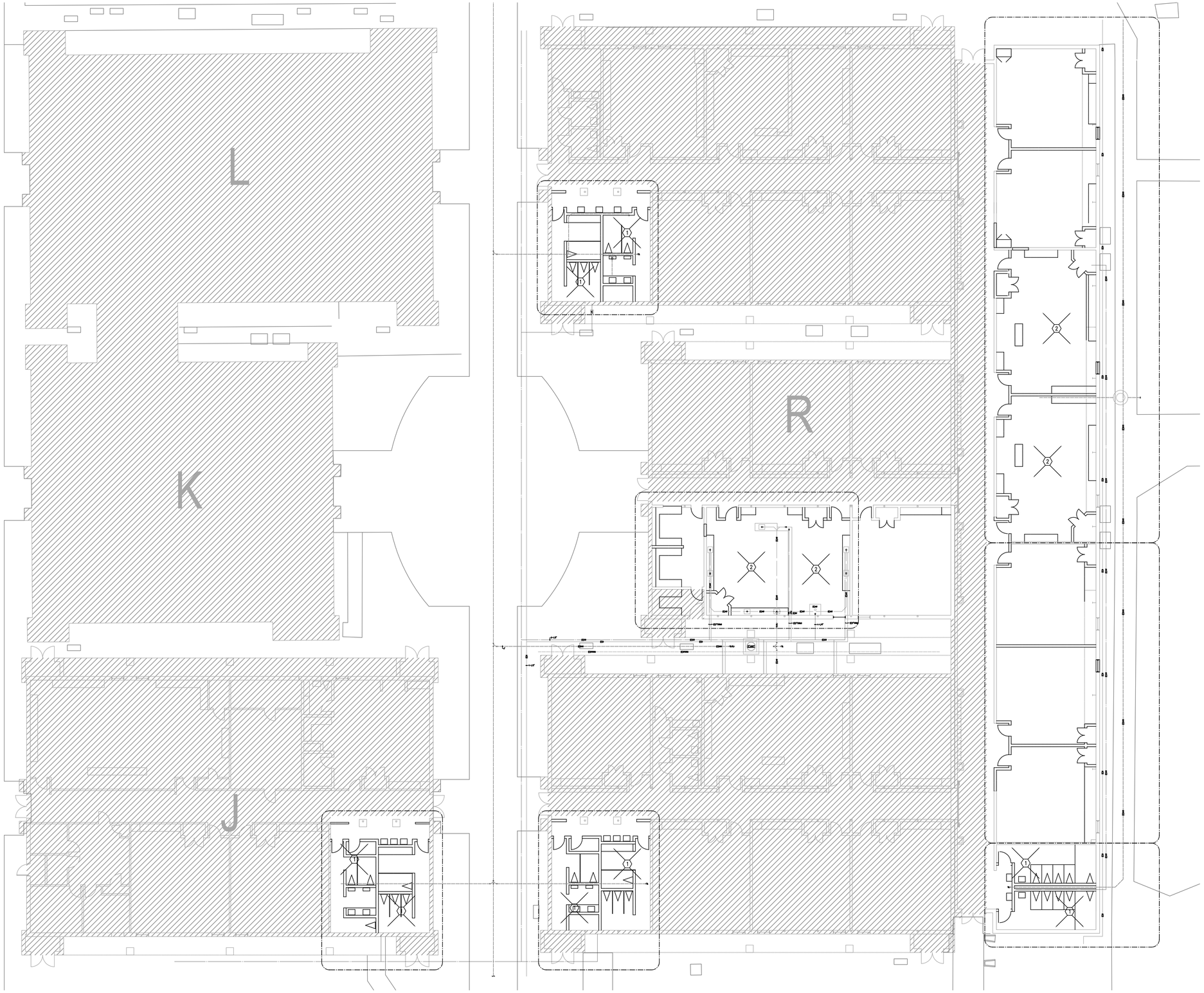

1 PD-210U COMPOSITE PLUMBING DEMOLITION PLAN - UNIVERSITY CAMPUS
3/32"=1'-0"

GENERAL NOTES:

A. SIZES AND LOCATION OF EXISTING PIPINGS SHOWN WERE TAKEN FROM ENGINEERING PLANS FROM WHICH EXISTING SYSTEMS WERE INSTALLED. CONTRACTOR NEED TO FIELD VERIFY EXACT SIZES, CONDITIONS AND LOCATIONS OF INDICATED EXISTING UTILITIES.

B. ALL FIXTURES, EQUIPMENT AND PLUMBING LINES SHOWN WITH (E) ARE EXISTING TO REMAIN. UNLESS NOTED OTHERWISE.

C. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING ALL WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES INCLUDING THOSE PUBLISHED BY OSHA AND EPA.

D. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED PRIOR TO BIDDING. CONTRACTOR SHALL IDENTIFY/VERIFY ALL PLUMBING LINES BEFORE STARTING ANY DEMOLITION WORK.

E. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.

F. ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.

G. PROVIDE ALL WORK REQUIRED FOR THE REMOVAL OF FIXTURES TO BE DEMOLISHED AND INSTALLATION OF NEW FIXTURES AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.

H. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCH'L DOCUMENTS IN ADDITION TO THE DIVISION 22, 23 AND 26 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.

I. COORDINATE DEMOLITION OF DIVISION 22 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.

J. ALL EXISTING EXTERIOR GAS LINES IN THE CAMPUS TO REMAIN. UNLESS NOTED OTHERWISE.

K. ALL EXISTING ROOF DRAINS, GUTTERS AND DOWNSPOUTS TO REMAIN. UNLESS NOTED OTHERWISE.

PLUMBING DEMO KEYED NOTES:

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND PLUMBING EQUIPMENT INCLUDING ALL ASSOCIATED PLUMBING LINES AND APPURTENANCES. REFER TO ARCHITECTURAL PLANS AND ENLARGED PLUMBING PLANS (SHEETS P-2.11-U AND P-2.12-U) FOR NEW WORK.

2. REMOVE ALL LAB FIXTURES AND EQUIPMENTS INCLUDING ALL ASSOCIATED PLUMBING LINES AND APPURTENANCES. REFER TO ARCHITECTURAL PLANS AND ENLARGED PLUMBING PLANS (SHEETS P-2.11-U AND P-2.11-U) FOR NEW WORK.

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05-10-2019

COLLEGE³ READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

COMPOSITE PLUMBING DEMO PLAN - UNIV. CAMPUS

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DBR Project Number	198008.000			
DM	MG	JCH	TL	–

PD-210U

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1 P-210U COMPOSITE PLUMBING PLAN - UNIVERSITY CAMPUS
3/32"=1'-0"

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05-10-2019

COLLEGE 3
READY. CONNECTED. COMPLETE.

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NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

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TBPE Firm Registration No. 2234

DBR Project Number	198008.000

DM	MG	JCH	TL	–

P-210U

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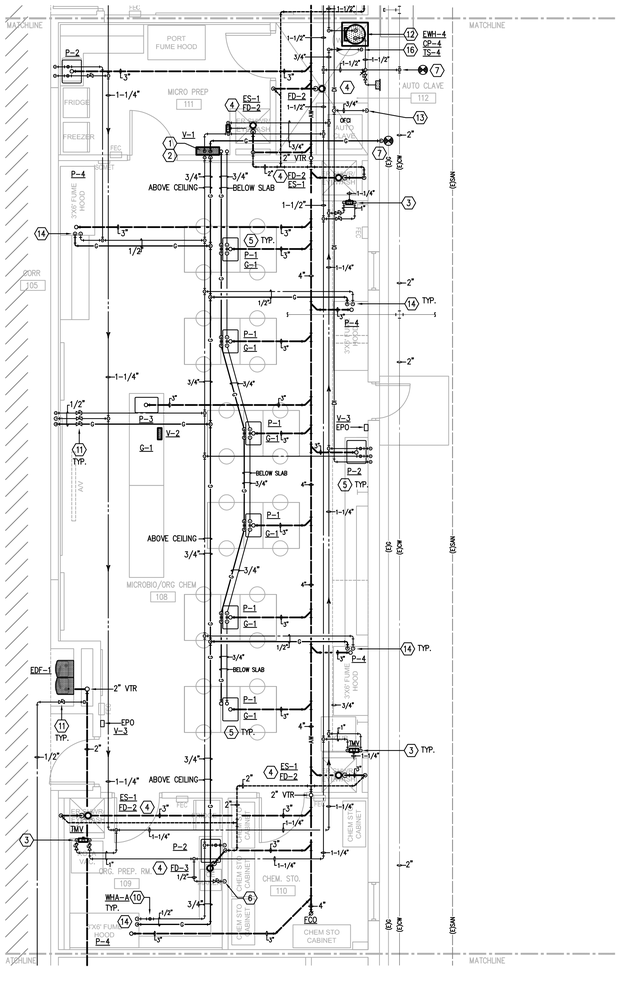
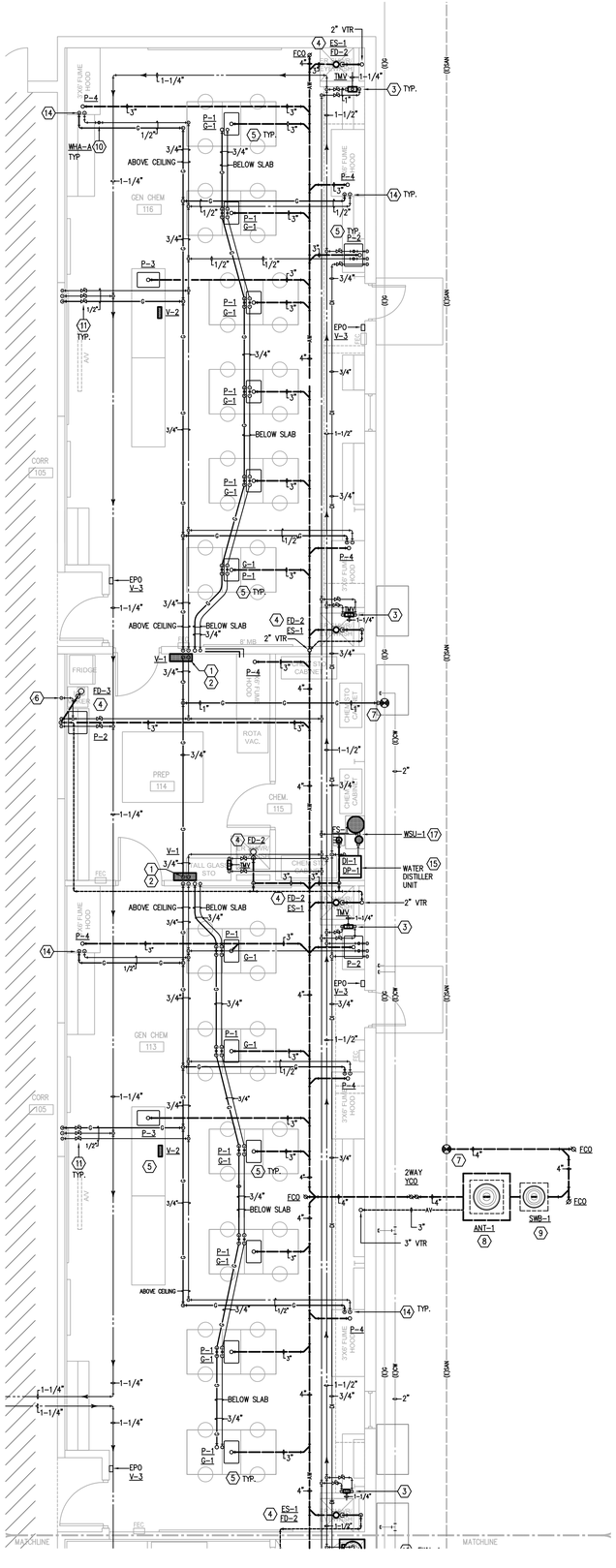


1 P-211U ENLARGED PLUMBING PLAN - MICROBIOLOGY/ORG. CHEM.
3/16"=1'-0"



2 P-211U ENLARGED PLUMBING PLAN - GEN. CHEMISTRY
3/16"=1'-0"

FIRE PROTECTION NOTES:

(A) CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

(B) PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

(C) PROVIDE AND INSTALL SURFACE MOUNTED FIRE EXTINGUISHERS. TYPE AND QUANTITY AND LOCATIONS SHALL BE PER LOCAL AUTHORITIES.

(D) A STATE LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR MUST SUBMIT SHOP DRAWINGS DIRECTLY TO THE CITY FIRE DEPARTMENT FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF THE PROPOSED FIRE SPRINKLER AND ALARM SYSTEM WORK. THESE SHOP DRAWINGS MUST BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO THE CONTRACTOR BEGINNING THE WORK. ALL WORK MUST BE IN COMPLIANCE WITH THE APPLICABLE NFPA STANDARDS AND THE INTERNATIONAL FIRE CODE.

(E) PRIOR TO SHUT-DOWN OF ANY EXISTING FIRE PROTECTION SYSTEM, CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S APPOINTED REPRESENTATIVE 5 DAYS PRIOR TO SERVICE INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING SYSTEM TO FULL OPERATION.

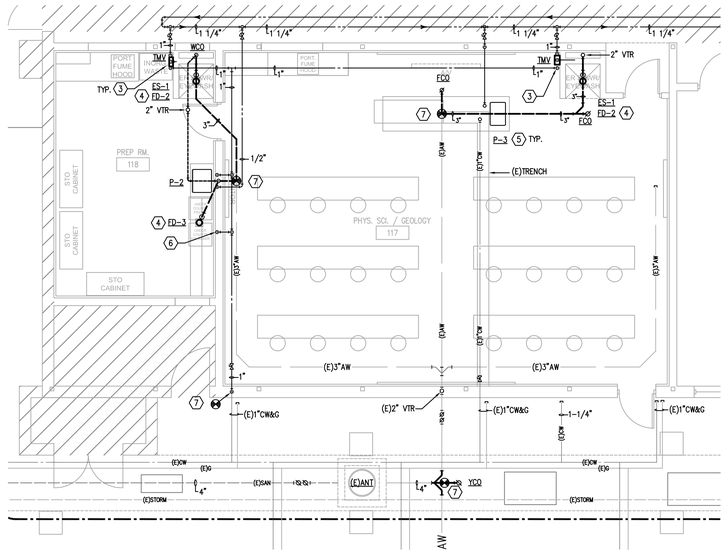
NOTE:

(A) DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

(B) PROVIDE ROUGH-IN AS REQUIRED FOR ALL FIXTURES AND EQUIPMENT PROVIDED BY SEPARATE DIVISION AND/OR OWNER. PROVIDE ALL MATERIALS AND LABOR TO INSTALL AND MAKE FINAL CONNECTIONS TO ALL EQUIPMENT. ALL CONNECTIONS FOR EQUIPMENT TO BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF HEALTH DEPARTMENT AND PLUMBING CODES.

PLUMBING KEYED NOTES

1. 3/4" CW AND GAS DROPS TO SOLENOID ENCLOSURE V-1, RE: 22/P-402U.
2. 3/4" GAS AND 3/4" CW UP TO CEILING AND 3/4" GAS & CW DROP TO BELOW FLOOR. ROUTE LINES BELOW SLAB FOR SERVICE TO ISLAND SINKS AND LINES ABOVE CEILING FOR SINKS AND FUME HOOD ALONG THE PERIMETER. RE: 22/P-402U.
3. 1" H & CW DROPS TO MIXING VALVE FOR SERVICE TO RECESSED EMERGENCY SHOWER WITH EYEWASH UNIT (ES-1). EXTEND 1 1/4" TEPID WATER TO EQUIPMENT.
4. PROVIDE TRAP GUARD SEWER GAS EMISSION PROTECTION IN THIS FLOOR DRAIN.
5. REFER TO ISLAND SINK PLUMBING DETAIL 18/P-402U.
6. 1/2" CW DROP FOR ICE MAKER, PROVIDE RPZ BACKFLOW PREVENTER EQUAL TO WATTS LF009. RE: 15/P-402U.
7. POINT OF CONNECTION TO EXISTING UTILITY. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITY.
8. ACID NEUTRALIZING TANK EQUAL TO PARK ANT250. RE: 19/P-402U.
9. SAMPLE WELL BASIN EQUAL TO PARK SWB-1. RE: 20/P-402U.
10. WATER HAMMER ARRESTOR, SIZE AS INDICATED. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
11. BALL VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING. PROVIDE MARKING ON LOCATION OF ALL ISOLATION VALVES ALONG THE CEILING TILE.
12. ELECTRIC WATER HEATER WITH RECIRCULATION SYSTEM, RE:17/P-402U.
13. 3/4" DISTILLED WATER DROP TO AUTOCLAVE. PROVIDE RPZA BFP EQUAL TO WATTS LF009. ALL INSTALLATION TO COMPLY WITH MANUFACTURE'S DETAILS AND RECOMMENDATIONS. AUTOCLAVE IS OWNER PROVIDED CONTRACTOR INSTALLED.
14. 1/2" CW AND GAS DROPS TO FUME HOOD. ALL CONNECTIONS AS PER MANUFACTURER'S DETAILS AND RECOMMENDATIONS.
15. WATER DISTILLER UNIT, INSTALLATION TO COMPLY WITH MANUFACTURER'S DETAILS AND RECOMMENDATIONS. COORDINATE ROUGH-INS WITH OWNER/ARCHITECT. INSTALL PUMP BELOW THE UNIT.
16. 3/4" HWR DROP TO CIRCULATING PUMP, RE: 17/P-402U.
17. PROVIDE WATER SOFTENER UNIT TO FEED THE WATER DISTILLER, PROVIDE RPZA BACKFLOW PREVENTER EQUAL TO WATTS LF009. RE: 24/P-402U.



3 P-211U ENLARGED PLUMBING PLAN - PHYSICS/GEOLOGY
3/16"=1'-0"

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05-10-19

PSJA COLLEGE 3 READY. CONNECTED. COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
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COMPOSITE PLUMBING PLAN - UNIV. CAMPUS

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DBR Project Number	198008.000			
DM	MG	JCH	TL	–

P-211U

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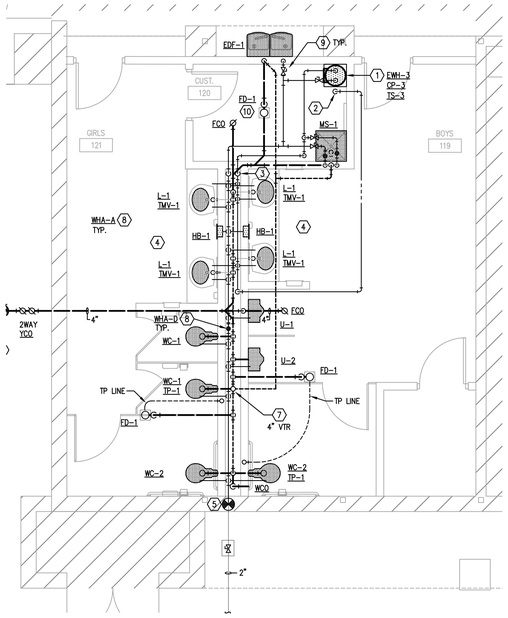

3 P-212U PLUMBING PLAN - UNIVERSITY CAMPUS
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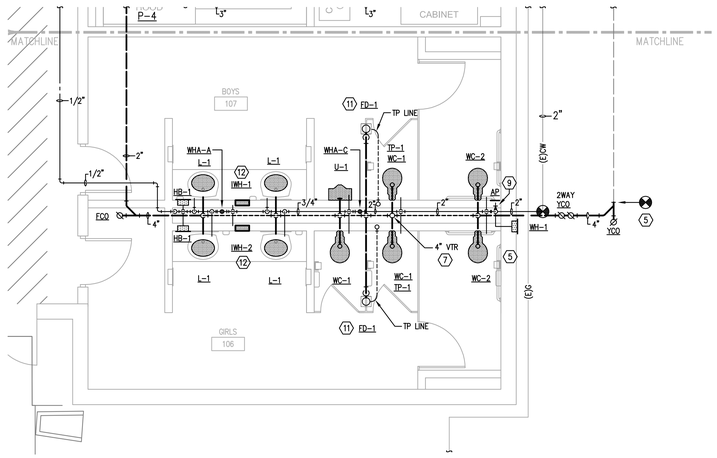

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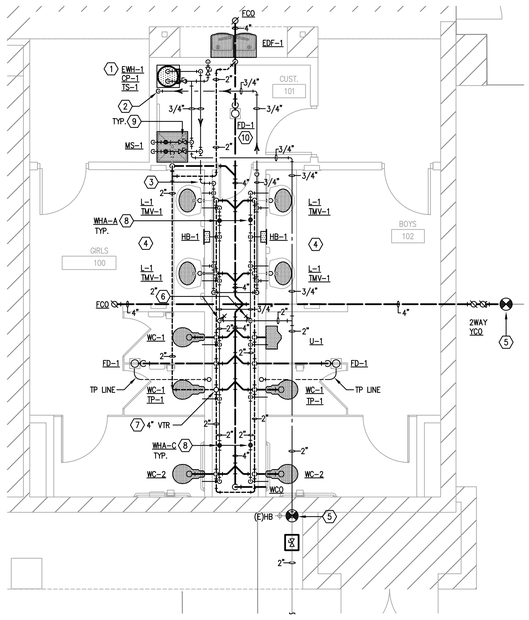
1/4"=1'-0"



1 P-212U PLUMBING PLAN - UNIVERSITY CAMPUS
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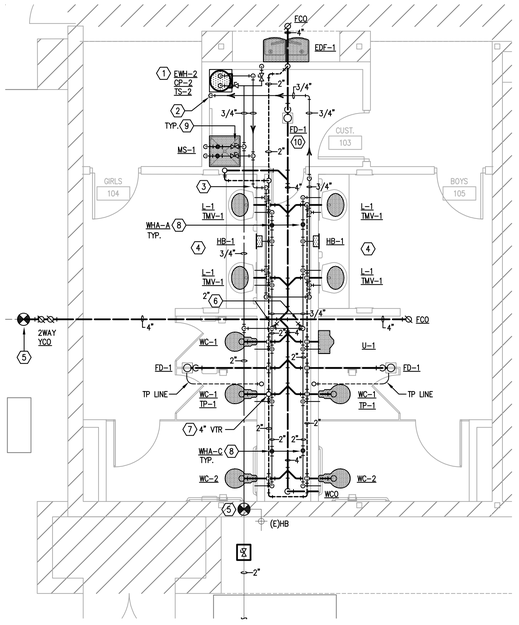

2 P-212U PLUMBING PLAN - UNIVERSITY CAMPUS
1/4"=1'-0"

FIRE PROTECTION NOTES:

A. CONTRACTOR TO ADJUST/REWORKED LOCATIONS OF ALL AFFECTED SPRINKLER HEADS AND FIRELINES IN AREAS OF RENOVATIONS. CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTING EXISTING SYSTEM AND INSURE THAT ALL COMPONENTS ARE FULLY FUNCTIONING. A VISIT TO THE SITE IS REQUIRED PRIOR TO BIDDING TO DETERMINE FULL SCOPE OF WORK.

B. PROVIDE/MODIFY FIRE ALARM SYSTEM AS REQUIRED BY LOCAL, STATE OR FEDERAL CODES TO RECEIVE CERTIFICATE OF OCCUPANCY FOR THE PROJECT.

C. PROVIDE AND INSTALL SURFACE MOUNTED FIRE EXTINGUISHERS. TYPE AND QUANTITY AND LOCATIONS SHALL BE PER LOCAL AUTHORITIES.

D. A STATE LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR MUST SUBMIT SHOP DRAWINGS DIRECTLY TO THE CITY FIRE DEPARTMENT FIRE MARSHAL'S OFFICE FOR REVIEW AND APPROVAL OF THE PROPOSED FIRE SPRINKLER AND ALARM SYSTEM WORK. THESE SHOP DRAWINGS MUST BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO THE CONTRACTOR BEGINNING THE WORK. ALL WORK MUST BE IN COMPLIANCE WITH THE APPLICABLE NFPA STANDARDS AND THE INTERNATIONAL FIRE CODE.

E. PRIOR TO SHUT-DOWN OF ANY EXISTING FIRE PROTECTION SYSTEM, CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S APPOINTED REPRESENTATIVE 5 DAYS PRIOR TO SERVICE INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING SYSTEM TO FULL OPERATION.

NOTE:

DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES. REFER TO RISER DIAGRAMS FOR M ORE PIPE SIZING INFORMATION AND OTHER REQUIREMENTS.

PLUMBING KEYED NOTES

1. WALL HUNG ELECTRIC WATER HEATER WITH RECIRCULATION SYSTEM. RE: 16/P4.02U.
2. 3/4" HOT WATER RETURN DROP TO CIRCULATING PUMP WITH TIMER SWITCH AND AQUASTAT; SEE DETAIL 16/P4.02U.
3. 3/4" HW DROP FOR SERVICE TO LAVS, SIZE AS NOTED. RUN RECIRCULATING LINE WITHIN 2 FEET OF HW ROUGH-INS FOR 2015 IECC COMPLIANCE.
4. PROVIDE TMV-1 (ASSE 1070 LISTED) FOR HOT WATER SUPPLY TO LAVATORY. SET AT MAX. 110°T, INSTALL UNDER FIXTURE AS HIGH AS POSSIBLE FOR CLEAN/NEAT APPEARANCE. RE: 14/P4.02U.
5. POINT OF CONNECTION TO EXISTING UTILITY. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES.
6. COLD WATER DROP TO FIXTURES; SIZE AS NOTED. PROVIDE ISOLATION BALL VALVE ON THE RISER. SEE PLUMBING RISER DIAGRAMS FOR CONTINUATION IN WALL OR CHASE.
7. PROVIDE NEW VTR AT LOCATION OF EXISTING, FIELD VERIFY LOCATION OF EXISTING VTR.
8. WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE WALL/CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH WALL/CEILING. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR FOR EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS.
9. BALL VALVE AT CEILING/WALL SPACE. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE WALL/CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH WALL/CEILING. PROVIDE MARKING OF VALVE LOCATION ALONG THE CEILING TILE.
10. PROVIDE TRAP GUARD SEWER GAS EMISSION PROTECTION IN THIS FLOOR DRAIN.
11. REPLACE FLOOR DRAIN IN ITS EXISTING LOCATION. PROVIDE WITH TRAP PRIMER (TP-1) SEWER GAS PROTECTION DEVICE.
12. PROVIDE POINT OF USE INSTANTANEOUS WATER HEATER FOR SERVICE TO LAVS. RE: 21/P-4.02U.

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TBPE Firm Registration No. 2234

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DM	MG	JCH	TL	–

P-212U

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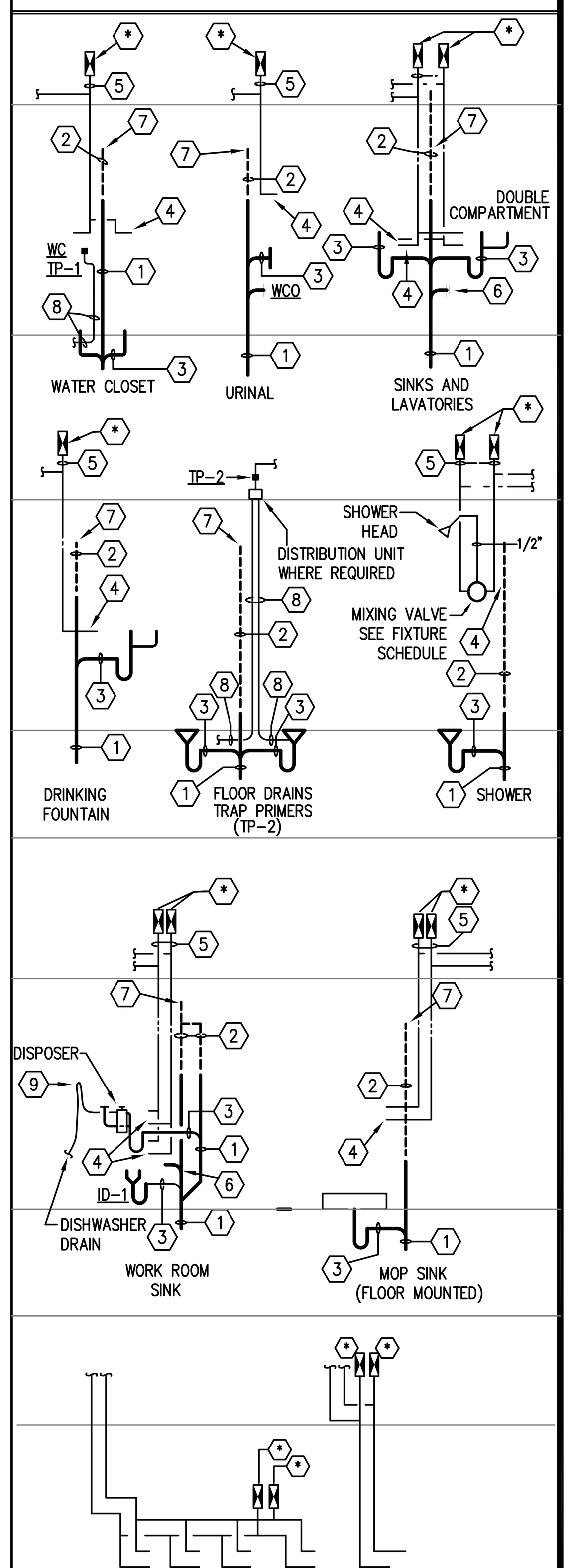
PLUMBING RISER DETAILS



KEYED NOTES – RISER DIAGRAM DETAILS:

(SEE PLUMBING FIXTURE SCHEDULE ON SHEET P3.01)

1. REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
5. / * SHOCK ARRESTOR INLET; REFER TO SHOCK ARRESTOR SCHEDULE FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR BATTERY LOCATIONS. ARRANGE ALL WATER LINES TO GRAVITY DRAIN.
6. WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
7. SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT MINIMUM 42" ABOVE FINISHED FLOOR.
8. TRAP PRIMER LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.
9. AIR GAP FITTING; PROVIDE WHERE REQUIRED BY CODE.

WATER HAMMER ARRESTOR SCHEDULE

* P.D.I. SYMBOL	FIXTURE UNITS	SIZE
A	1–11	1/2" NPT
B	12–32	3/4" NPT
C	33–60	1" NPT
D	61–113	1 1/4" NPT
E	114–154	1 1/2" NPT
F	155–330	2" NPT

PIPING RISER DIAGRAMS/TYPICAL RISER DETAILS ILLUSTRATE WATER HAMMER ARRESTORS FOR FIXTURE WATER PIPE OPENINGS. ALL ARRESTORS SHALL BE SIZED AS INDICATED ON DRAWINGS OR IN ACCORDANCE WITH THIS SCHEDULE, WHICHEVER PLACES THE MOST STRINGENT REQUIREMENT.

PROVIDE ARRESTORS IN ACCORDANCE WITH THE REQUIREMENTS OF PLUMBING DRAINAGE INSTITUTE (PDI) STANDARD PDI-WH-201. THE USE OF AIR CHAMBERS SHALL NOT BE ACCEPTABLE.

WATER HAMMER ARRESTORS SHALL HAVE LIFETIME WARRANTY AND SHALL BE CERTIFIED BY THE MANUFACTURER AS SUITABLE FOR INSTALLATION WITHOUT A REQUIREMENT FOR ACCESS PANELS. NONETHELESS, ACCESS PANELS SHALL BE PROVIDED IF AND AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).

GENERAL NOTES – PLUMBING FIXTURES

1. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ROUGH-IN WORK.
2. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES PROVIDED UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
4. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
5. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WHERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE STAINLESS STEEL FLEXIBLE CONNECTORS.
6. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE C.P. ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE McGUIRE No. 8872C, 1-1/4" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES PROVIDE McGUIRE No. 8912C, 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES.
7. PROVIDE DEEP SEAL P-TRAP FOR ALL DRAINS OF INFREQUENT USE OR REQUIRING TRAP PRIMER.
8. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
9. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
10. ALL HANDICAPPED ACCESSIBLE FIXTURES INDICATED WITH ♿ SHALL BE PROVIDED OF APPROVED TYPES AND WITH REQUIRED CONTROLS AND INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY AMERICANS WITH DISABILITIES ACT (ADA). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
11. ALL WHEELCHAIR LAVATORY AND SINK PIPING WHERE EXPOSED SHALL BE INSULATED. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES. REFER TO SPECIFICATIONS SECTION 15440.
12. ALL SINKS FOR HANDICAPPED USE SHALL BE STAMPED WITH DRAIN OUTLET AT REAR OF BOWL.
13. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 2.2 GPM FLOW CONTROL.
14. ORIENT ADA WATER CLOSET FLUSH VALVE WITH OPERATOR ON WIDE SIDE OF ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE SLOPED UNIFORMLY ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.

PLUMBING GENERAL PLAN NOTES:

A. DRAINAGE PIPING INVERT ELEVATIONS NOTED ON FLOOR PLANS AS: INV. EL.= 0.00' BFF ARE BELOW FINISHED FLOOR TAKEN FROM FIRST FLOOR FINISHED ELEVATION OF 0.00' TO INSIDE BOTTOM OF PIPE.

B. PLUMBER SHALL FIELD VERIFY EXACT BUILDING FINISHED FLOOR ELEVATION AND THE INVERT ELEVATION OF ALL DRAIN LINES AT PROPOSED CONNECTING POINTS WITH SITE CIVIL UTILITIES PRIOR TO INSTALLATION OF BUILDING PIPING.

C. ALL PIPE PASSING THROUGH FIRE RATED WALLS OR FLOOR SLABS SHALL BE SUPPORTED AT PENETRATION AND OPENINGS SHALL BE SEALED WITH APPROVED, NON-HARDENING, FIRE STOP MATERIALS AS SPECIFIED OR REQUIRED.

D. CONTRACTOR SHALL COORDINATE WITH THE STRUCTURAL CONDITIONS AT THE SITE AND PROVIDE PROPER ROUGH-IN CONNECTIONS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS ARE NECESSARY, CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.

E. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. CORRECTIONS OR RELOCATIONS DUE TO MISALIGNED PIPE SHALL BE PERFORMED IN A TIMELY MANNER AT NO ADDITIONAL COST TO OWNER.

F. DO NOT SCALE THE PLUMBING DRAWINGS FOR ROUGH-IN WORK. CONTRACTOR SHALL REFER TO THE DIMENSIONED ARCHITECTURAL AND STRUCTURAL DRAWINGS TO FIELD DETERMINE EXACT LOCATIONS OF PLUMBING ROUGH-IN WORK.

G. SANITARY DRAINAGE PIPING 2" AND SMALLER SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/4 INCH PER FOOT OF RUN. DRAINAGE PIPING OF 3" SIZE AND LARGER SHALL SLOPE MINIMUM 1/8 INCH PER FOOT OF RUN. SLOPE ALL VENT PIPING MINIMUM 6" PER 100 FEET OF RUN BACK TO DRAIN.

H. STORM DRAINAGE PIPING SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/8 INCH PER FOOT OF RUN. SLOPES OF 1/4 INCH PER FOOT ARE PERMITTED WHERE NOTED ON PLAN OR AS REQUIRED.

I. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL STORM DRAINAGE PIPING ABOVE GROUND. PROVIDE RESTRAINTS FOR ALL DRAINAGE PIPING AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER PERMANENT METHODS AS PRESCRIBED BY PIPE AND COUPLING MANUFACTURER SHALL BE ACCEPTABLE.

J. PROVIDE AND INSTALL CLEANOUTS AT EACH CHANGE OF DIRECTION OF THE BUILDING SANITARY DRAIN, AT MINIMUM 75' INTERVALS ALONG STRAIGHT RUNS OF MAIN DRAIN AND BRANCHES, AT EACH HORIZONTAL CHANGE OF DIRECTION IN SOIL OR WASTE PIPES GREATER THAN 45 DEGREES, AT END OF INDIVIDUAL BRANCH DRAINS LONGER THAN 5'. PROVIDE CLEANOUTS IN ACCORD WITH INTERNATIONAL PLUMBING CODE SECTION 708.

K. PROVIDE FITTINGS FOR SANITARY DRAIN WASTE AND VENT PIPING SYSTEMS IN COMPLIANCE WITH INTERNATIONAL PLUMBING CODE SECTION 708.

L. INSTALL EACH WATER HEATER AND ALL PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVALS/REPLACEMENTS.

M. PROVIDE ISOLATION VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE APPROVED PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT. PROVIDE STAINLESS STEEL ACCESS DOORS FOR SHOWER, LOCKER AND LOCKER TOILET ROOM PANELS. PROVIDE MARKINGS ON CEILING TILES ON LOCATIONS OF ISOLATION VALVES.

N. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS OF ALL SANITARY VENTS UP THROUGH ROOF TO MAINTAIN MINIMUM 15' CLEARANCE TO ANY BUILDING OUTDOOR AIR INLET.

PLUMBING PIPE MATERIALS SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
SANITARY DRAINS AND VENTS INSIDE BUILDING AND BELOW GROUND	SCHEDULE 40 PVC DWV
SANITARY DRAINS AND VENTS INSIDE BUILDING AND ABOVE GROUND	CAST IRON NO-HUB DWV
SANITARY DRAINS AND VENTS INSIDE BUILDING AT PLENUM CEILING	CAST IRON NO-HUB DWV
DOMESTIC HOT & COLD WATER INSIDE BUILDING AND ABOVE GROUND	COPPER, TYPE "L" HARD DRAWN
DOMESTIC HOT & COLD WATER INSIDE BUILDING AND BELOW GROUND	COPPER, TYPE "K" SOFT ANNEALED
DOMESTIC WATER AT ENTRY	COPPER, TYPE "K" HARD DRAWN
NATURAL GAS	BLACK STEEL SCHEDULE 40
DISTILLED WATER	STAINLESS STEEL 304-L
ACID WASTE PIPING	SCHEDULE 40 PVDF FUSION JOINT
ACID VENT IN PLENUM CEILING	FR-PVDF
FIRE SPRINKLER BELOW GROUND	DUCTILE IRON
FIRE SPRINKLER ABOVE GROUND – 2" AND SMALLER	BLACK STEEL SCHEDULE 40
FIRE SPRINKLER ABOVE GROUND – 2-1/2" AND LARGER	BLACK STEEL SCHEDULE 10

NOTE: REFER TO SPECIFICATIONS FOR COMPLETE PIPING MATERIAL REQUIREMENTS FOR ASSOCIATED PIPING SYSTEMS.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES WST & VENT		DRAIN	CW	HW	DESCRIPTION
WATER CLOSET WC-1	4"	2"	4"	1"	----	AMERICAN STANDARD No.3451.128 "MADERA" WHITE V.C. ELONGATED SIPHON JET FLOOR MTD. (1.28 GPF) BOWL WITH TOP SPUD, BOLT CAPS, BEMIS 1955 SSCT WHITE OPEN FRONT SEAT, LESS COVER AND SLOAN ROYAL 111-1.28 HET FV.
WATER CLOSET WC-2 ADA ♿	4"	2"	4"	1"	----	AMERICAN STANDARD No.3461.128 "MADERA" WHITE V.C. ELONGATED SIPHON JET FLOOR MTD. (1.28 GPF) BOWL WITH TOP SPUD, BOLT CAPS, BEMIS 1955 SSCT WHITE OPEN FRONT SEAT, LESS COVER AND SLOAN ROYAL 111-1.28 HET FV.
URINAL U-1 ♿	2"	2"	2"	3/4"	----	AMERICAN STANDARD No.6590.125 "WASHBROOK" WHITE V.C. UHE 0.125 GPF, WITH 3/4" TOP SPUD AND WALL HANGERS. WITH SLOAN ROYAL No.MODEL 186-0.13 FLUSH VALVE AND WADE OR EQUAL FLOOR MOUNTED CARRIER WITH MOUNTING RE: ARCH'L PLANS FOR MOUNTING HEIGHT.
LAVATORY-COUNTER TOP L-1 ♿	2"	1-1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD NO.0476.028 WHITE VC 20 X 17 OVAL SELF RIMMING FIXTURE WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS FOR CHICAGO 802-VE2805-665ABCP METERING FAUCET & FIXED GRID DRAIN, CHROME PLATED BRASS P-TRAP, STOPS AND SUPPLIES. PROVIDE TMV-1 WHERE INDICATED.
ELECTRIC DRINKING FOUNTAIN EDF-1 (BI-LEVEL) ♿	2"	1-1/4"	1-1/4"	1/2"	---	ELKAY No. VRCGRNTL8C BI-LEVEL BARRIER-FREE, LEAD FREE WALL MOUNTED COOLER, 8.8 GPH CAPACITY COOLED TO 50° F WITH 80° F AMBIENT TEMP. 1/5 HP 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS. PROVIDE ZURN OR EQUAL FLOOR MOUNTED PLATE TYPE CARRIER AND TRAP AND SUPPLY. PROVIDE WITH ALL STAINLESS STEEL CABINET AND CANE APRON FOR PROJECTING UNITS, REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHT.
MOP SINK MS-1	3"	2"	3"	3/4"	3/4"	FIAT TSB 100 24 X 24 X 12 WITH STAINLESS STEEL CAP AND CAULK OUTLET DRAIN WITH N.B. STRAINER. PROVIDE CHICAGO No.897-RCF WALL MOUNT FAUCET WITH INTEGRAL STOPS, WALL BRACE AND VACUUM BREAKER. PROVIDE T-35 HOSE AND WALL BRACKET AND T-40 STAINLESS STEEL MOP HANGER.
WALL HYDRANT WH-1	----	----	----	3/4"	----	WADE 8600MT RECESSED NON-FREEZE BRONZE WALL BOX, ANTI-SIPHON HYDRANT, WITH LOOSE KEY OPERATOR AND POLISHED NICKEL BRONZE LOCKING COVER. INSTALL WITH FACE FLUSH AND SQUARE TO FINISHED WALL.
HOSE BIBB HB-1 (TOILET ROOMS)	----	----	----	3/4"	----	WADE 8600MT RECESSED STAINLESS STEEL WALL BOX WITH COLD WATER WHEEL HANDLE VALVE, INTEGRAL STOP, VB AND HINGED LOCKING COVER STAMPED 'WATER' INSTALL FLUSH AND RIGID TO FINISHED WALL AND SEAL WATERTIGHT.
WALL BOX WB-1	----	----	----	1/2"	----	GUY GRAY NO. BIM-875 WITH 1/2 X 1/4 O.D. TUBE, CHROME PLATED FIXTURE SUPPLY STOP. INSTALL BOX 54" AFF BEHIND FREE STANDING REFRIGERATOR WITH ICE MAKER.
TRAP PRIMER TP-1	----	----	1/2"	----	----	PROVIDE SLOAN No. VBF-72-A1 FLUSH VALVE VACUUM BREAKER TRAP REFILL SUPPLY. ALL EXPOSED PIPES TO BE CHROME PLATED AND RUN SHORT AS POSSIBLE TO WALL. CONCEALED DRAIN TUBING SHALL BE 1/2" TYPE 'K' SOFT COPPER SLOPING UNIFORMLY TO DRAIN WRAPPED IN CONTINUOUS PLASTIC SLEEVE.
FLOOR DRAIN FD-1	3"	2"	----	----	----	ZURN No.ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE 'B' STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. (PLUGGED WHERE NOT REQUIRED)
FLOOR DRAIN FD-3	3"	2"	----	----	----	ZURN Z415I WITH TYPE "I" CAST IRON DRAIN WITH 7" DIA. DEEP FLANGE GRATE, W/ ACID RESISTANT EPOXY COATED INTERIOR, RECESSED HINGED GRATE. WITH ACID RESISTANT EPOXY COATING. PROVIDE TRAP GUARD.
WALL CLEAN-OUT WCO	----	----	----	----	----	ZURN No. ZN-1443 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEAN-OUT FCO	----	----	----	----	----	ZURN No. ZN-1400 DURO-COATED CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND SUITED FOR THE INSTALLATION REQUIRED. VERIFY TOP FINISHES WITH ARCHITECT.
YARD CLEAN-OUT YCO	----	----	----	----	----	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND SUITED FOR THE INSTALLATION REQUIRED. VERIFY TOP FINISHES WITH ARCHITECT.
FLOOR SINK FS-1	3"	2"	----	----	----	ZURN No.ZN-1901-2-25-K, 12" SQUARE, 8" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR, SEDIMENT BUCKET STRAINER AND SECURED HALF NICKEL BRONZE GRATE. WITH 1/2" IPS TRAP PRIMER CONNECTION.(PLUGGED WHERE NOT REQUIRED).
ELECTRIC WATER HEATER EWH-4 SCIENCE LABS	----	----	----	SEE PLAN		RHEEM ES85, 85 GALLON STORAGE WITH 15 KW (3-5 KW ELEMENTS) WIRED FOR 480 V, 3 PH. POWER AND SIMULTANEOUS OPERATION; VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. UNIT SHALL HAVE CAPACITY OF 78 GPH RECOVERY AT 80° F.TEMPERATURE RISE PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE, AND THERMOMETER IN HW OUTLET PIPING. PROVIDE EXPANSION TANK AMTROL ST-5-C.
ELECTRIC WATER HEATER EWH-1,2,3	----	----	----	SEE PLAN		RHEEM EGSP15, 15 GALLON STORAGE WITH 2 KW ELEMENTS WIRED FOR 208 V, 1 PH. POWER; VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. UNIT SHALL HAVE CAPACITY OF 14 GPH RECOVERY AT 60°F. TEMPERATURE RISE PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE AND THERMOMETER IN HW OUTLET PIPING. W/AMTROL ST-5-C XPN TANK.
CIRCULATING PUMP CP-1,2,3					3/4"	GRUNDFOS MODEL UP15-42SF ALL BRONZE, FLANGED PUMP. 1/25 HP WIRED FOR 120/60/1 POWER AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER AND SHUT-OFF TIMER TS-1.
CIRCULATING PUMP CP-4	----	----	----	----	3/4"	BELL & GOSSET SERIES 100, ALL BRONZE FLANGED PUMP. 1/12 HP WIRED FOR 120/60/1 POWER AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER AND SHUT-OFF TIMER TS-1.
TIME SWITCH TS-1 (ALL TS)	----	----	----	----	----	TORK ELECTROMECHANICAL 24 HOUR TIME SWITCH POWERED BY A SELF STARTING SYNCHRONOUS MOTOR. INSTALL ON WALL ADJACENT TO CIRCULATING PUMPS. COORDINATE WITH ELECTRICAL AND PROVIDE FOR 120/1/60 POWER REQUIREMENT.
INSTANTANEOUS WATER HEATER IWH-1,2	----	----	----	1/2"	1/2"	INSTANT-FLOW MICRO MIX WATER HEATER EQUAL TO CHRONOMITE M-30L/277-MM, 277V/1PH, 8.32 KW, 30 AMPS. 71°F RISE AT 0.8 GPM. WITH ASSE1070 MIXING VALVE SET AT 110°F.
THERMOSTATIC MIXING VALVE TMV-1				1/2"	1/2"	POWERS No. LFe480 ADJUSTABLE POINT-OF-USE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE TO MAXIMUM 105° F AT FAUCET OUTLET. SUPPLY CW TO MIXING VALVE FROM CW RISER TO FAUCET. INSTALL BELOW FIXTURE AND HIGH AS POSSIBLE TO PROVIDE NEAT AND CLEAN APPEARANCE.
WATER SOFTENER WSU-1	----	----	----	----	----	EQUAL TO KINETICO POWERLINE MODEL PS 840X WATER SOFTENER FOR SERVICE FLOW OF 7 GPM AT 15 PSI PRESSURE DROP. POWER: 120V/24V, 1Ø.

NOTE:
- FLOOR DRAINS FOR SCIENCE LABS EQUAL TO ZURN ZN-415B-AR CAST IRON, 6" DIA, WITH ACID RESISTANT EPOXY COATING (FD-2). W/TRAPGUARD.
- ALL FLOOR CLEANOUTS ASSOCIATED WITH THE ACID WASTE SYSTEM SHALL BE EQUAL TO ZURN Z9A-C01-F POLYPROPYLENE WITH STAINLESS STEEL COVERS. (FCO-2).
- ALL WALL CLEANOUTS SHALL BE OF SIMILAR ACID RESISTANT MATERIAL AS ABOVE. (WCO-2)
- ALL ACCESS PANELS SHALL HAVE A "SCREWDRIVER OPERATED CAM LATCH" LOCK.

SCIENCE LAB FIXTURES ROUGH-IN SCHEDULE

PROVIDED UNDER SEPARATE DIVISION, FINAL CONNECTIONS BY PLUMBER

PLAN MARK	MINIMUM ROUGH-IN SIZES WST & VENT		DRAIN	CW	HW	DESCRIPTION
EMERGENCY SHOWER EMERGENCY EYEWASH FLOOR DRAIN COMBINATION ES-1 TEPID WATER SUPPLY ES-1 AND APPURTENANCES SUPPLIED BY PLUMBER ♿	---- ---- 3"	---- ---- 2"	---- 1-1/2" 3"	1" ----	1" ---- ----	RECESSED SAFETY STATION WITH DRAIN PAN, EXPOSED SHOWER HEAD EQUAL TO GUARDIAN GBF2340. PROVIDE AND INSTALL ALL ASSOCIATED PIPING, TO INCLUDE STAY OPEN VALVES. PROVIDE FLOOR DRAIN FD-3 CENTERED DIRECTLY BELOW SHOWER HEAD, WITH TRAP GUARD. PROVIDE THERMOSTATIC MIXING VALVE EQUAL TO GUARDIAN G3802LF WITH SURFACE MOUNTED CABINET SET AT MIN. 60°F, MAX. 90°F. INSTALLATION TO COMPLY WITH ANSI/ISEA Z345.1-2014 AND MANUFACTURER'S DETAILS AND RECOMMENDATIONS. EQUAL TO GURDIANGBF1909-BC.
LAB SINK STUDENT TABLE P-1	2"	2"	1-1/2"	1/2"	----	FIXTURE WITH DRAIN OUTLET AND FAUCET ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ASSOCIATED PIPING, TRAP, VALVES AND TRIM AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
LAB SINK STUDENT TABLE P-1A (ADA ♿	2"	2"	1-1/2"	1/2"	----	FIXTURE WITH DRAIN OUTLET AND FAUCET ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ASSOCIATED PIPING, TRAP, VALVES AND TRIM AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
LAB SINK INSTRUCTOR TABLE P-3 ♿	2"	2"	1-1/2"	1/2"	1/2"	FIXTURE WITH DRAIN OUTLET AND FAUCET ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ASSOCIATED PIPING, TRAP, VALVES AND TRIM AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
LAB SINK PREP. ROOMS P-2 ♿	2"	2"	1-1/2"	1/2"	1/2"	FIXTURE WITH DRAIN OUTLET AND FAUCET ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ASSOCIATED PIPING, TRAP, VALVES AND TRIM AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
CUP SINK FUME HOOD P-4	2"	2"	1-1/2"	1/2"	1/2"	FIXTURE WITH DRAIN OUTLET AND FAUCET ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ASSOCIATED PIPING, TRAP, VALVES AND TRIM AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
SCIENCE GAS OUTLETS G-1	----	----	----	----	----	SINGLE GAS OUTLET (5 CFH) GAS OUTLETS ARE PROVIDED UNDER SEPARATE DIVISIONS. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ASSOCIATED PIPING VALVES AND TRIM AS REQUIRED TO CONNECT ALL GAS OUTLETS PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
ISIMET SYSTEM – PROVIDED BY PLUMBER – V-1 INSTALLATION BY PLUMBER ELECTRICAL COMPONENTS INSTALLATION AND CONNECTIONS BY ELECTRICAL DIVISION ALL INSTALLATION AS PER MANUFATURER'S DETAILS AND RECOMMENDATIONS						
SOLENOID VALVE BOX V-1 RE: DETAIL 24/P402	----	----	----	----	----	THIS UTILITY SOLENOID VALVE CONTROL ENCLOSURE, LOCATED ADJACENT TO SCIENCE CLASSROOM. FULLY FACTORY ASSEMBLED AND PRE-TESTED PANEL. MINIMUM 16 GAUGE NEMA-1 SURFACE MOUNTED ENCLOSURE WITH WHITE POWDER COATED FINISH AND KEYED LOCKING LOUVERED DOOR. U/L LISTED COMPONENTS. EXTERIOR SHALL HAVE AN ENGRAVED BLACK NAMEPLATE WITH WHITE LETTERING: "LABORATORY SOLENOID VALVE BOX". FOR EACH PIPED UTILITY PROVIDE: A SUITED, LINE-SIZED, FULL PORT BALL TYPE WITH STAINLESS STEEL BALL AND STEM, MANUAL ISOLATION VALVE (LEAD FREE FOR WATER), STRAINER; NORMALLY CLOSED, ENERGIZED TO STAY-OPEN TYPE, 120 VAC ASCO SOLENOID VALVE; AND PIPE UNIONS TO FACILITATE SOLENOID VALVE MAINTENANCE (LOCATE ADJACENT TO SOLENOID VALVE ON BOTH SIDES). PROVIDE CONFIGURED FOR USE IN CONJUNCTION WITH ASSOCIATED UTILITY CONTROLLER UC-1, SPECIFIED BELOW. ISIMET S-1-1-1-2-2-X-K-L OR APPROVED EQUAL. REFER TO FLOOR PLANS FOR INTENDED LOCATION AND TO CONFIRM LINE/VALVE SIZES. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER AND ARCHITECT PRIOR TO ANY ROUGH-INS. SOLENOID ENCLOSURE TO BE SURFACE MOUNTED. COORDINATE IN ADVANCE WITH ELECTRICAL CONTRACTOR TO PROVIDE ALL POWER AND CONTROL WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REFER TO WIRING SCHEMATICS PROVIDED WITH ENCLOSURE.
UTILITY CONTROLLER V-2	----	----	----	----	----	UTILITY CONTROLLER, LOCATED ADJACENT TO INSTRUCTOR'S SPACE. FULLY FACTORY ASSEMBLED AND PRE-TESTED PANEL. MINIMUM 18 GAUGE NEMA-1 FULLY RECESSED ENCLOSURE WITH STAINLESS STEEL FINISH AND KEYED LOCKING DOOR. U/L LISTED COMPONENTS. EXTERIOR SHALL BE CLEARLY LABELED "UTILITY CONTROLLER" AND ALSO INCLUDE A CLEARLY LABELED SWITCH FOR EACH SERVICE (GAS, WATER, AND ELECTRIC) WITH A CORRESPONDING GREEN LIGHT TO ILLUMINATE WHEN THAT SERVICE IS ACTIVE. PROVIDE A RED, MUSHROOM STYLE, TWO POSITION, PANIC PUSHBUTTON GOVERNED BY KEY CONTROL, WHICH IS REQUIRED FOR ROUTINE ON-OFF. ON-OFF KEY REQUIRED TO ACTIVATE CONTROLLER SHALL BE KEYED SEPARATELY FROM KEY FOR ENCLOSURE LOCKING DOOR. NO KEY SHALL BE REQUIRED TO DEACTIVATE UTILITIES VIA THE EMERGENCY PUSHBUTTON STOP. PROVIDE CONFIGURED FOR SINGLE POINT OF CONNECTION 120VAC POWER SUPPLY. PROVIDE CONFIGURED TO CONTROL ASSOCIATED REMOTE GAS AND WATER SOLENOID VALVES AND ALSO SUITED TO INTERFACE WITH REMOTE ELECTRICAL CONTACTOR TO CONTROL LAB RECEPTACLES AS INDICATED ON ELECTRIC DRAWINGS. ISIMET UTC-2-2-0-3 OR APPROVED EQUAL. PROVIDE RELAY FOR GENERAL/PURGE EXHAUST FAN IN LABS. REFER TO FLOOR PLANS FOR INTENDED LOCATION. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER AND ARCHITECT PRIOR TO ANY ROUGH-INS. POWER SUPPLY/WIRING TO/FROM PANEL AND ASSOCIATED V-1 SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
REMOTE PANIC BUTTON V-3 EPO	REMOTE	PANIC BUTTON				IP-O-C, REMOTE PANIC BUTTON ASSEMBLY WITH CLEAR COVER.
ELECTRICAL ENCLOSURE						E-31 (NO. OF CONTACTS)-S-L GRAY POWDER COAT, SURFACE MOUNT, SCREWED PANEL COVER.

PLUMBING EQUIPMENT SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION
DISTILLED WATER SYSTEM DI-1	H2OLABS MODEL 4696 DURASTILL WATER DISTILLER, 25 GALLON, 110 VOLT, 50 HZ. 12 GALLONS PER DAY, AUTOMATIC WATER DISTILLER WITH 25 GALLON RESERVE TANK. AUTOMATICALLY TURNS ON AND OFF TO REPLENISH RESERVE TANK AS NECESSARY.	PROVIDE DOUBLE CHECK VALVE BACK-FLOW PREVENTION (DCVA) AT THE FEED WATER INPUT TO SYSTEM EQUAL TO WATTS 007. ROUTE ALL DISTILLED WATER LINES TIGHT TO STRUCTURE. PIPE, VALVES AND FITTINGS SHALL BE STAINLESS STEEL 304-L. ALL INSTALLATION TO COMPLY WITH MANUFACTURER'S PRINTED RECOMMENDATIONS. AFTER INSTALLATION THE CONTRACTOR SHALL FLUSH THE ENTIRE PIPING SYSTEM WITH DISTILLED WATER TO THE SATISFACTION OF THE OWNER.
DI PUMP DP-1	GRUNDFOS CRN-3-3 A-FGJ-G-E-HQQE, 0.5 HP, 60HZ, 115V.	
WATER SOFTENER WSU-1	KINETICO POWERLINE MODEL PS-840X	

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Consultants:
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STRUCTURAL: GREEN, RUBIANO & ASSOCIATES INC.
MEP: DBR ENGINEERING

STATE OF TEXAS — KEVIN DAN MILGRIM — 76295 — LICENSED PROFESSIONAL ENGINEER — 05-10-2019

PSJA COLLEGE³ READY.CONNECTED.COMPLETE.

PSJA ISD

NORTH ECHS & COLLEGE AND UNIVERSITY CAMPUS

STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

PLUMBING SCHEDULES

DBR
200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM | MG | JCH | TL | –

P-401U

May 08, 2019 - 4:53pm User: tleochico
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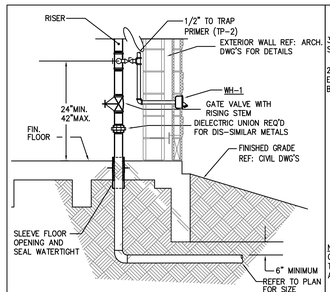

1 DOMESTIC WATER ENTRY DETAIL
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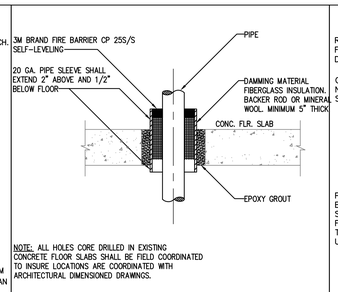

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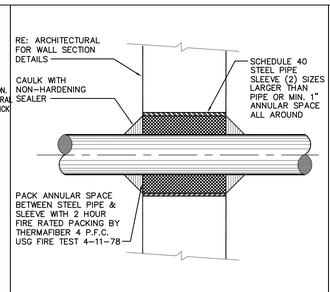

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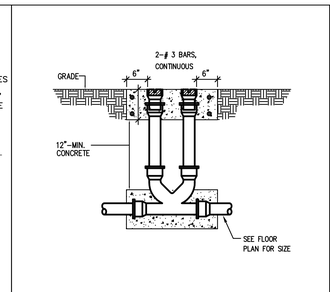

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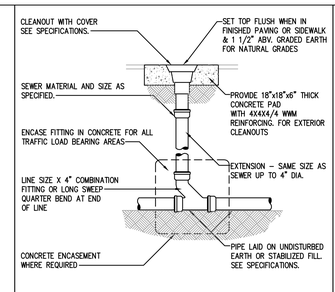

5 CLEAN-OUT DETAIL (FCO, YCO)
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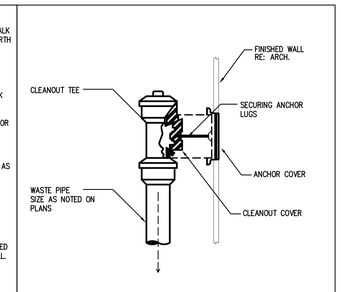

6 WALL CLEAN-OUT DETAIL (WCO)
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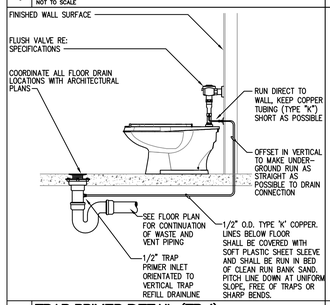

7 TRAP PRIMER DETAIL (TP-1)
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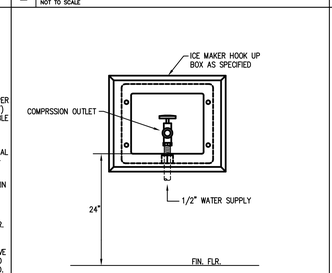

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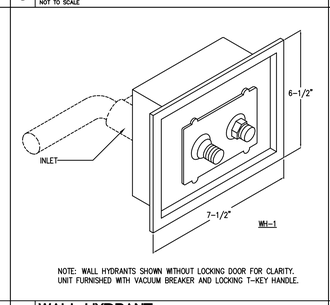

9 WALL HYDRANT
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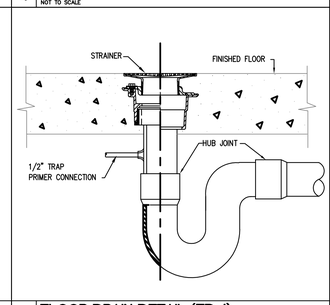

10 FLOOR DRAIN DETAIL (FD-1)
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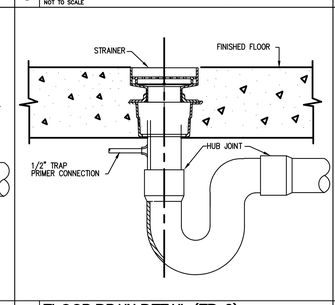

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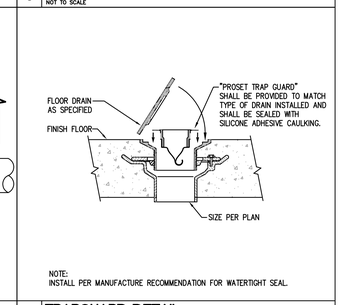

12 TRAPGUARD DETAIL
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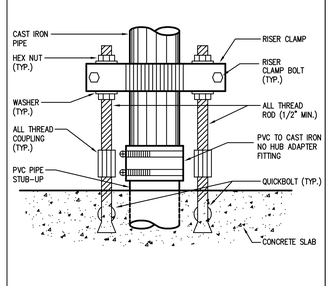

13 PVC TO CAST IRON SUPPORT
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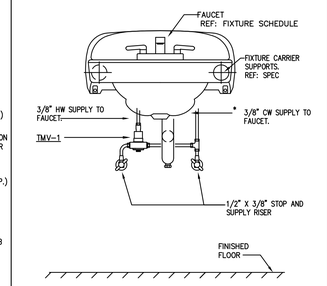

14 TMV-1 DETAIL
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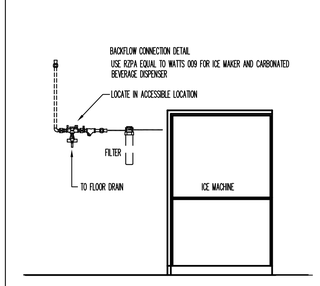

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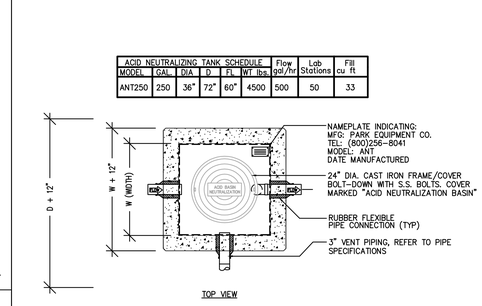

19 ACID NEUTRALIZING TANK DETAIL
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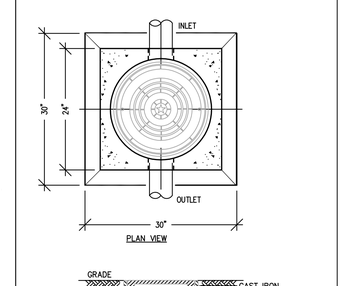

20 SAMPLE WELL BASIN DETAIL
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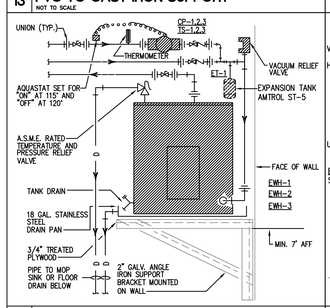
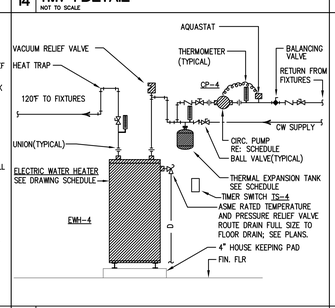
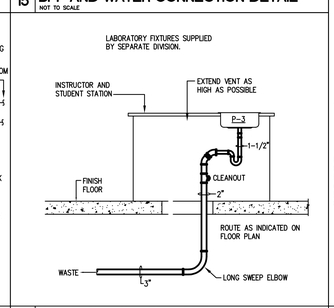


16 WATER HEATER DETAIL-SHELF MOUNTED
NOT TO SCALE



17 WATER HEATER DETAIL-FLOOR MOUNTED
NOT TO SCALE



18 ISLAND SINK PLUMBING DETAIL
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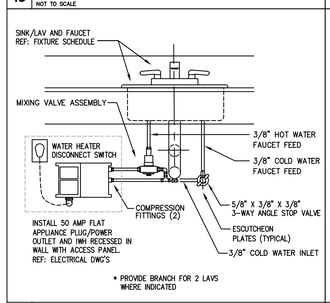
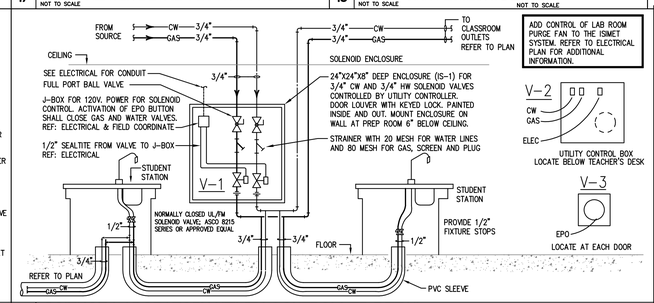
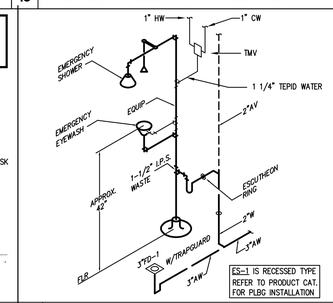


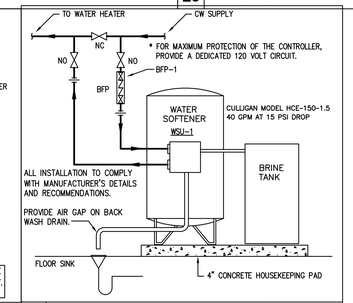
21 TANKLESS WATER HEATER DETAIL
NOT TO SCALE



22 SCIENCE LABORATORY UTILITY CONTROLLER DETAIL.
NOT TO SCALE



23 TYP. PLUMBING - SAFETY SHOWER
NOT TO SCALE



24 WATER SOFTENER UNIT (WSU-1)
NOT TO SCALE

GIGNAC | ARCHITECTS
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Consultants:

CIVIL:
MELDEN & HUNT

STRUCTURAL:
GREEN, RUBIANO & ASSOCIATES INC.

MEP:
DBR ENGINEERING

STATE OF TEXAS
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STUDENT RESTROOM RENOVATIONS

KEYPLAN

Project Number:	19.04
Drawing Date:	5-10-2019
Drawn:	AL
Checked:	JM
Scale:	1/4" = 1'-0"
ACAD File:	A-240-U

Revisions:

Sheet Title:

PLUMBING DETAILS

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200 South 10th Street Suite 901
Mc Allen, Texas 78501
956.683.1640 p 956.683.1903 f
TBPE Firm Registration No. 2234

DBR Project Number 198008.000

DM	MG	JCH	TL	–

P-402U

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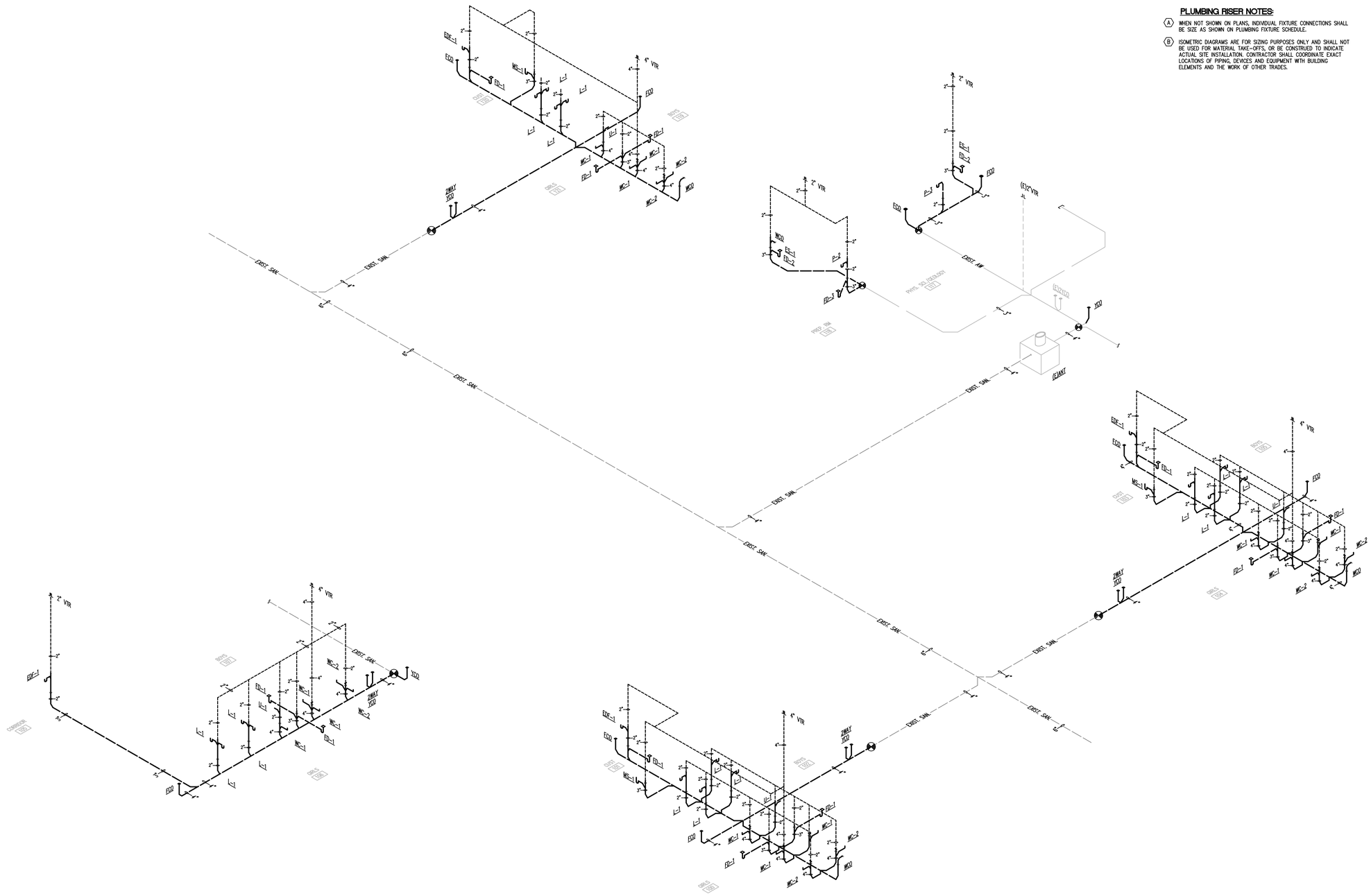

PLUMBING RISER NOTES:

(A) WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.

(B) ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

1 / P-501U PLUMBING RISERS - SEWER AND VENT - UNIVERSITY CAMPUS

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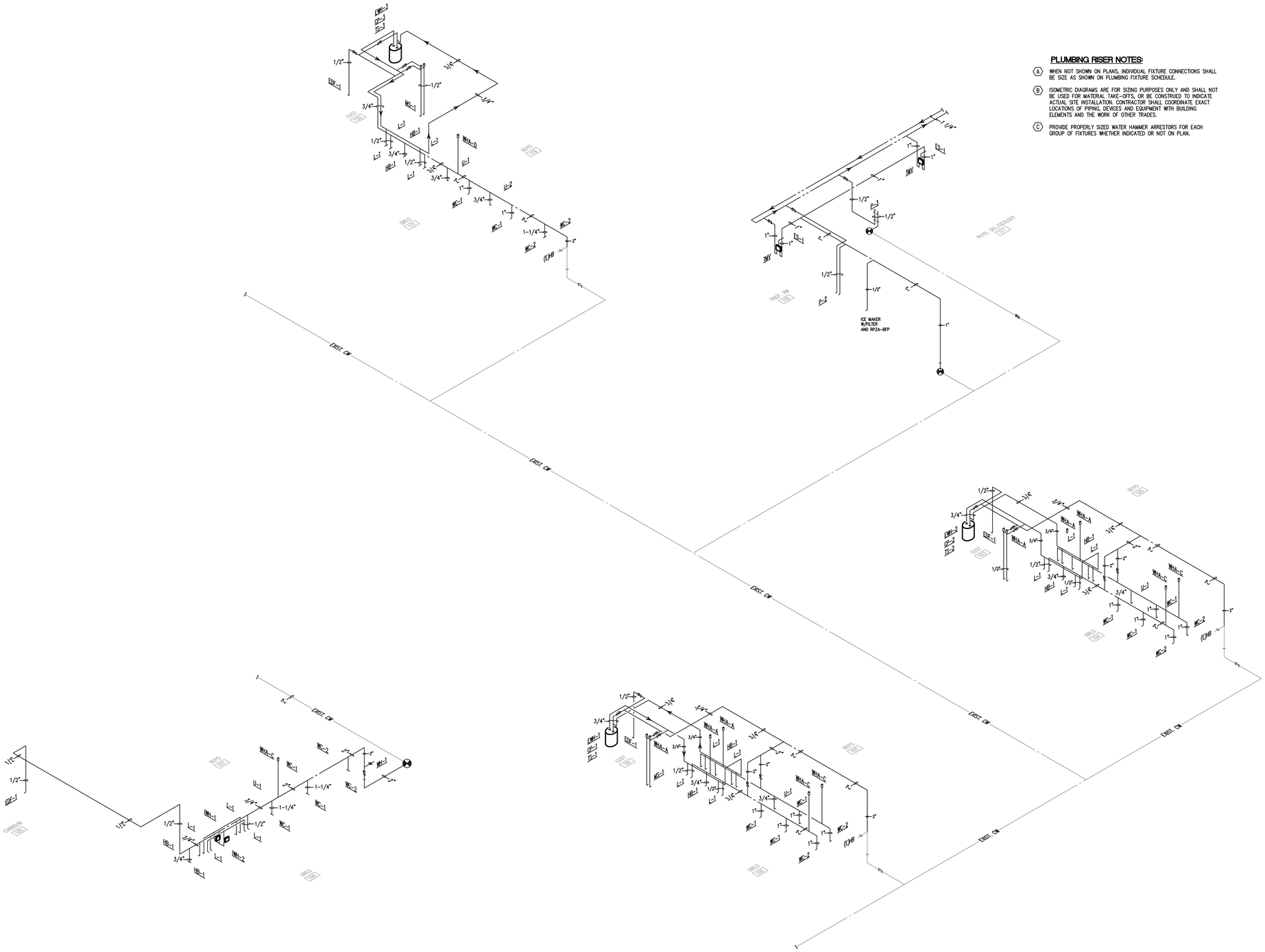

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C. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTORS FOR EACH GROUP OF FIXTURES WHETHER INDICATED OR NOT ON PLAN.

1 / P-502U PLUMBING RISERS - DOMESTIC WATER - UNIVERSITY CAMPUS

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PLUMBING RISERS - DOM. WATER - UNIV. CAMPUS

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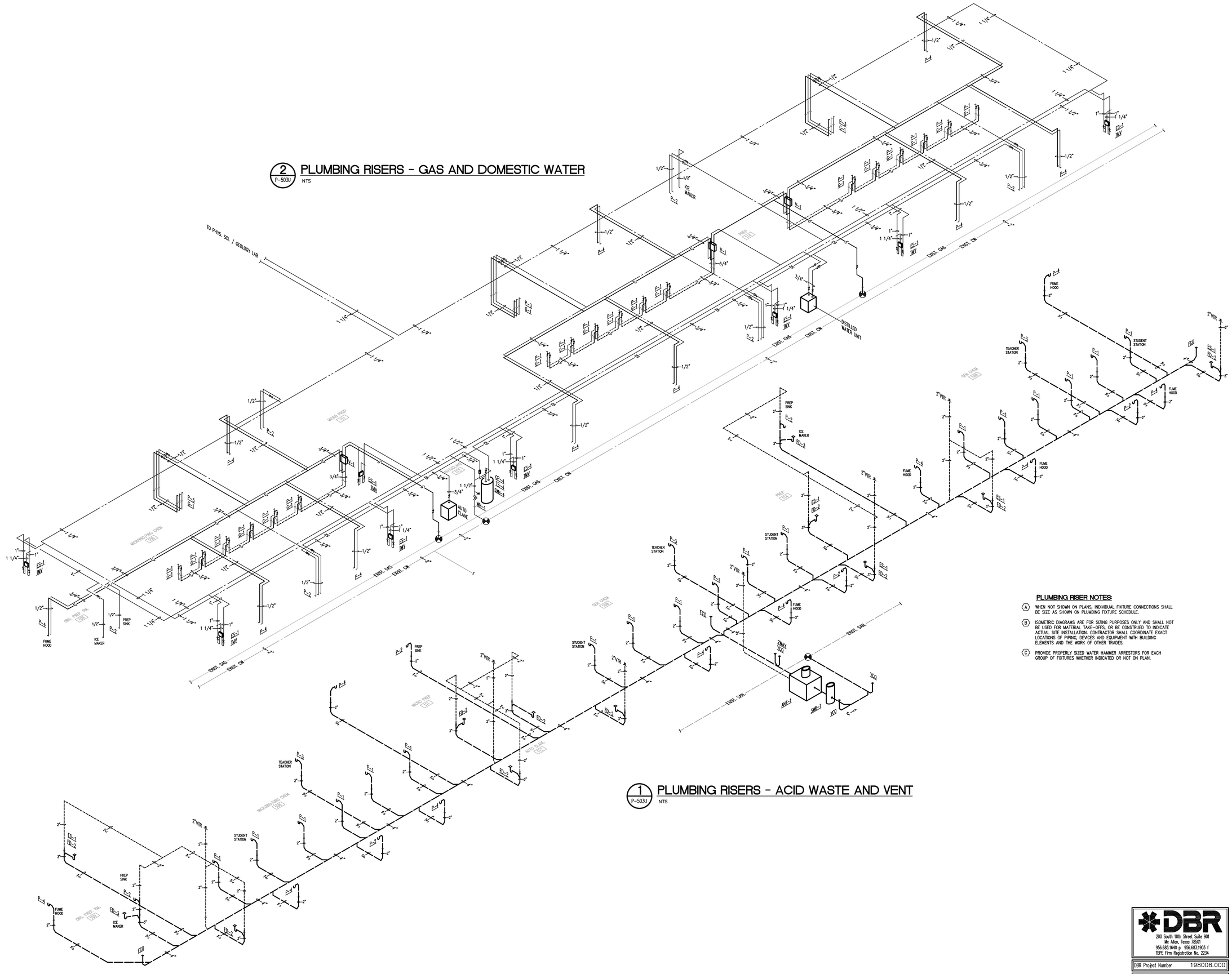

2 P-503U PLUMBING RISERS - GAS AND DOMESTIC WATER
NTS

1 P-503U PLUMBING RISERS - ACID WASTE AND VENT
NTS

PLUMBING RISER NOTES:

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