

# BUILDING 5 & 6 RESTROOM REMODELS

800 Lincoln Way  
Ames, IA 50010

Project: BG-3A17(008)-80-85

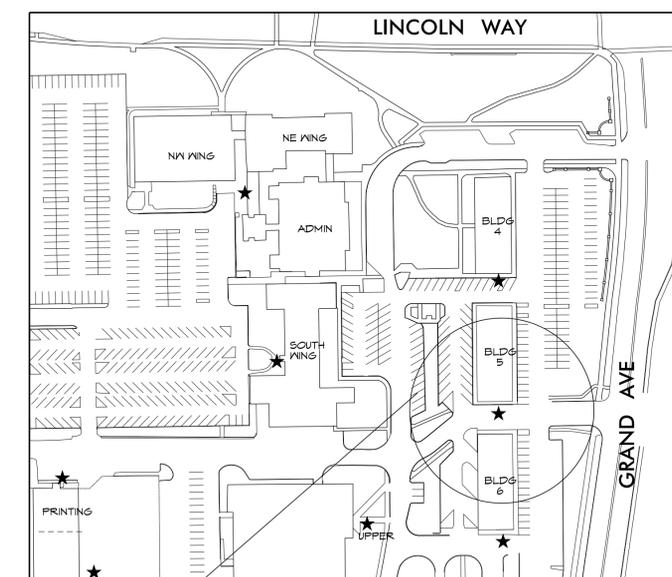


OFFICE OF FACILITIES SUPPORT

800 LINCOLN WAY, AMES, IOWA 50010

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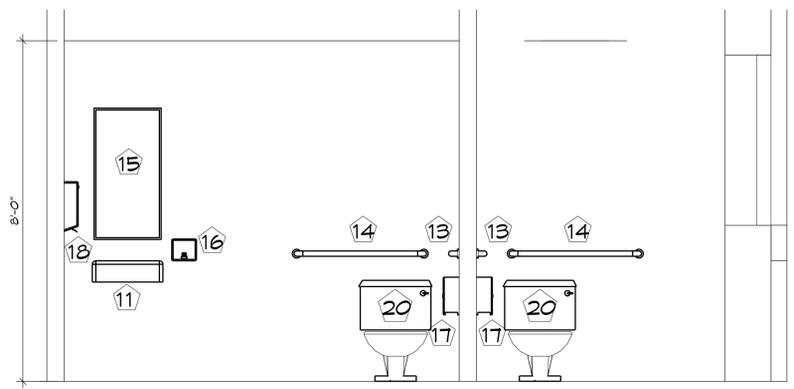


PROJECT LOCATION

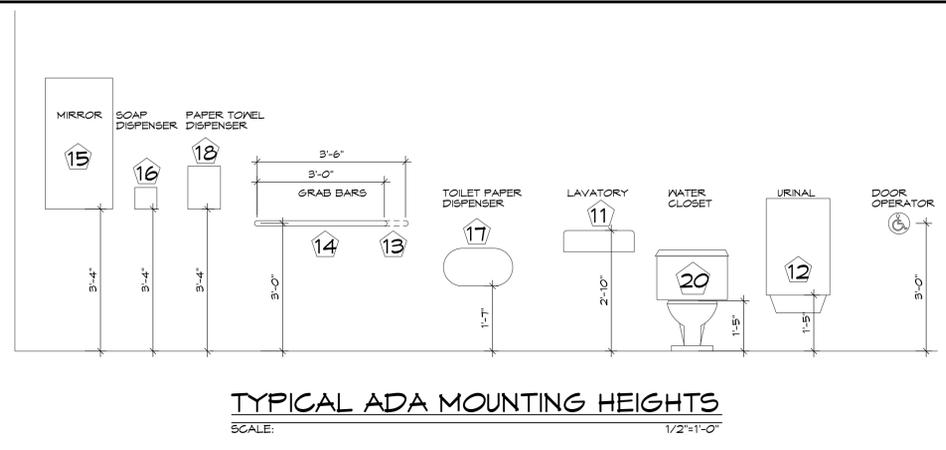
SCALE: 1"=1 MILE



W:\Operations\Finances\Facilities\Projects\District 1\Ames buildings\852A17 - Building 5\0099 - Restroom Remodel\2015\DWGS\00\_A01\_code\_plm.dgn by csmelse on 30-OCT-2015 at 09:53



**BUILDING 6**  
4 NORTH ELEVATION  
A-3 SCALE: 1/2"=1'-0"



**TYPICAL ADA MOUNTING HEIGHTS**  
SCALE: 1/2"=1'-0"

**BUILDING 5 KEY:** ■ SF ROOM AREA

OCCUPANT TYPE  
GROUP B

CONSTRUCTION TYPE  
III-A

ALLOWABLE AREA AND HEIGHTS  
UL/UL

ACTUAL AREA AND HEIGHTS  
7526 SF/ 1 STORY

OCCUPANT LOAD  
B SF/100  
7526/100 = 75.26 (75 ROUNDED)

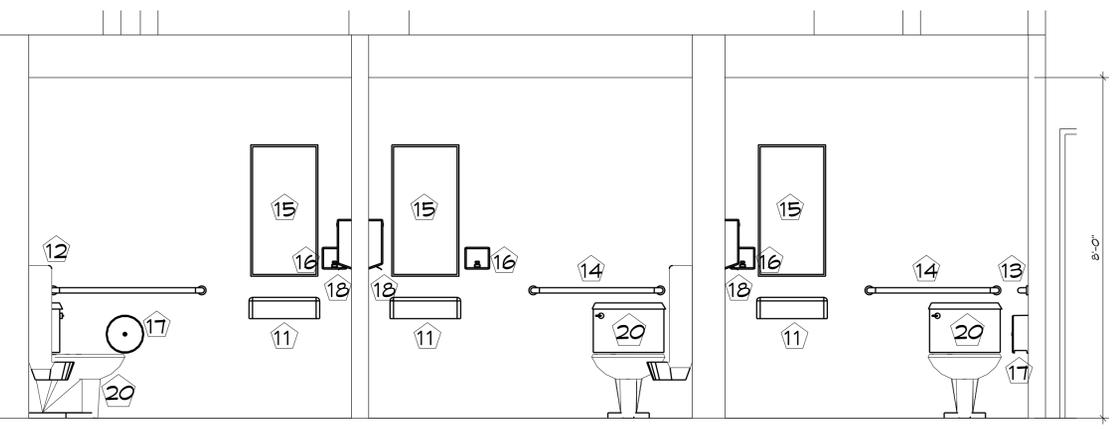
RESTROOM OCCUPANCY  
OCCUPANT LOAD/2  
75/2 = 37.5 (38 ROUNDED)

WATER CLOSETS REQUIRED  
MALE AND FEMALE 1/25 FIRST 50, 1/50

MALE PROVIDED 1 WC AND 1 URINAL  
FEMALE PROVIDED 1 WC

LAVATORIES REQUIRED  
MALE AND FEMALE 1/40 FIRST 80, 1/80

MALE PROVIDED 1 LAVATORY  
FEMALE PROVIDED 1 LAVATORY



**BUILDING 5**  
3 EAST ELEVATION  
A-3 SCALE: 1/2"=1'-0"

**BUILDING 6 KEY:** ■ SF ROOM AREA

OCCUPANT TYPE  
GROUP B

CONSTRUCTION TYPE  
III-A

ALLOWABLE AREA AND HEIGHTS  
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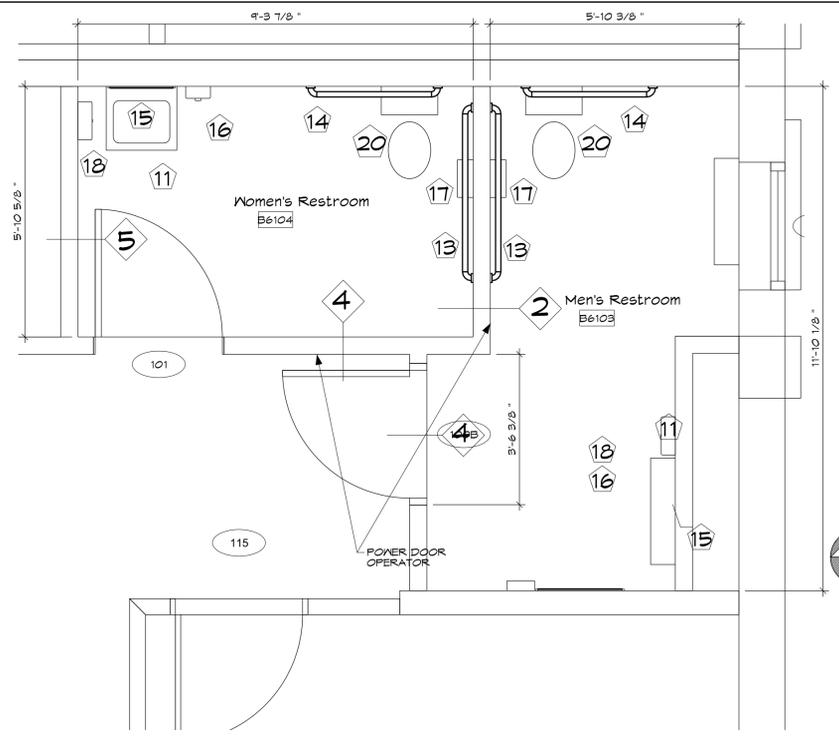
RESTROOM OCCUPANCY  
OCCUPANT LOAD/2  
75/2 = 37.5 (38 ROUNDED)

WATER CLOSETS REQUIRED  
MALE AND FEMALE 1/25 FIRST 50, 1/50

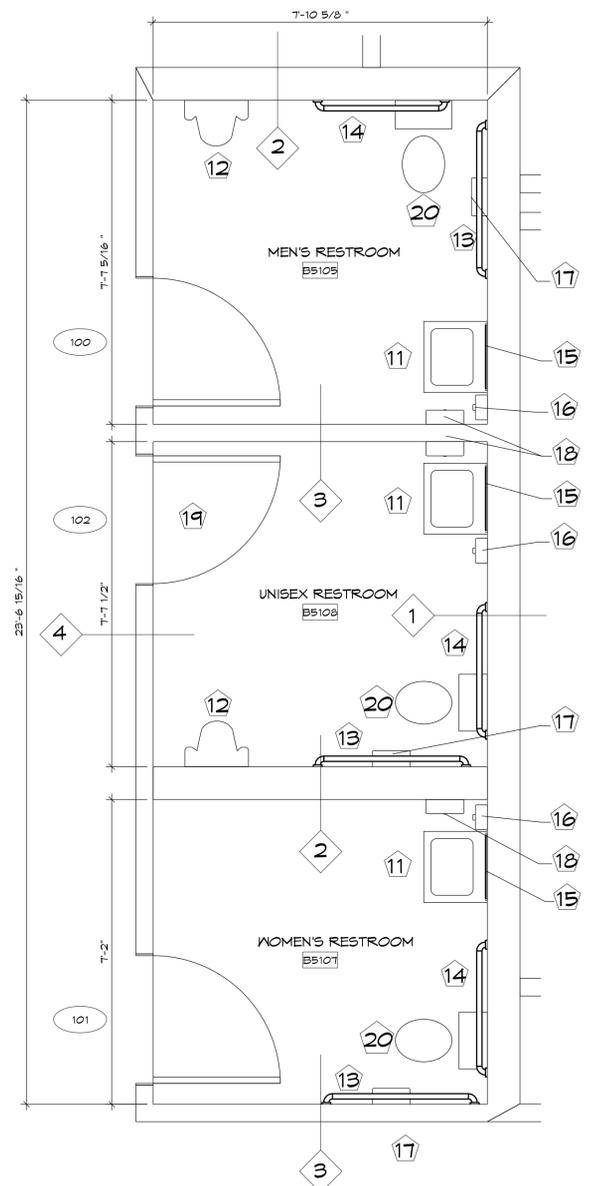
MALE PROVIDED 1 WC  
FEMALE PROVIDED 1 WC

LAVATORIES REQUIRED  
MALE AND FEMALE 1/40 FIRST 80, 1/80

MALE PROVIDED 1 LAVATORY  
FEMALE PROVIDED 1 LAVATORY



**BUILDING 6 FLOOR PLAN**  
SCALE: 1/2"=1'-0"



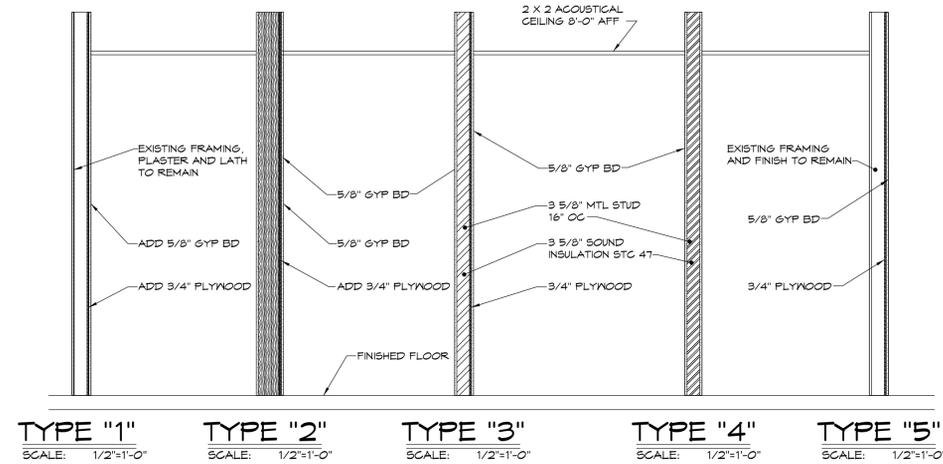
**BUILDING 5 FLOOR PLAN**  
SCALE: 1/2"=1'-0"

**FLOOR PLAN NOTES:**

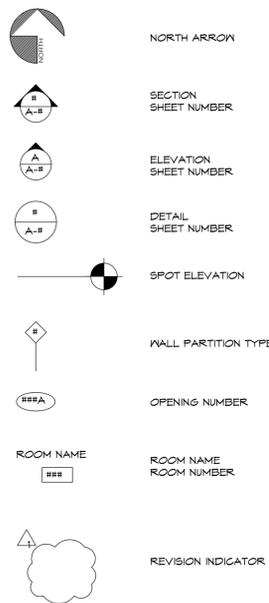
- 11 WALL MOUNTED LAVATORY AT ADA HEIGHT
- 12 WALL MOUNTED URINAL AT ADA HEIGHT
- 13 42" GRAB BAR
- 14 36" GRAB BAR
- 15 24 X 36 MIRROR
- 16 SOAP DISPENSER (DOT PROVIDED CONTRACTOR TO INSTALL)
- 17 TOILET PAPER DISPENSER (DOT PROVIDED CONTRACTOR TO INSTALL)
- 18 PAPER TOWEL DISPENSER (DOT PROVIDED CONTRACTOR TO INSTALL)
- 19 NEW DOOR TO MATCH EXISTING WOOD DOORS (BUILDING 5)
- 20 FLOOR MOUNTED WATER CLOSET

DISTRICT: 01	COUNTY: STORY	PROJECT NUMBER: BG-3A17(009)-80-85
AMES, IOWA	BUILDING 5 AND 6 RESTROOM REMODELS	BUILDINGS 5 & 6 CODE PLANS
<p>SMARTER. SIMPLER. CUSTOMER DRIVEN</p> <p>OFFICE OF SUPPORT SERVICES 800 COLLEGE AMES, IOWA 50010-1515/239-1299</p>		
DATE: NOV 2015		
DRAWN BY: A SMELSER		
APPROVED: J BURNES		
REVISIONS:		
02 SHEET OF 11		
<b>A-0.1</b>		

**WALL TYPES:**



**SYMBOLS LEGEND:**



**ABBREVIATIONS:**

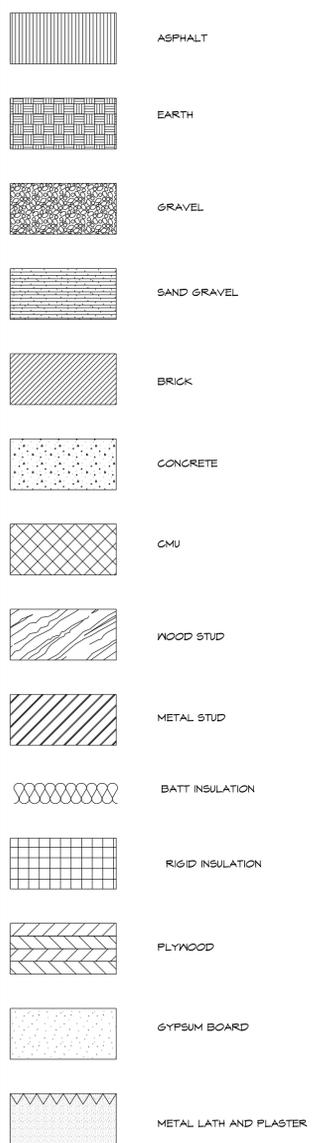
A	ASTRALGAL	O	OVERALL
A ADJ	ADJUSTABLE	OA	ON CENTER
AFF	ABOVE FINISH FLOOR	OD	OUTSIDE DIAMETER
AHU	AIR HANDLING UNIT	OFF	OFFICE
ALUM	ALUMINUM	OH	OPPOSITE HAND
A	AND	OPG	OPENING
APPROX	APPROXIMATE	OPF	OPPOSITE
ARCH	ARCHITECT	P	PANT, PANEL MOLDING
B	BASE	PL	PLASTIC LAMINATE
BLDG	BUILDING	PLYND	PLYWOOD
BLKS	BLOCKING	PNL	PANEL
BO	BY OTHERS	PR	PAIR
BOT	BOTTOM	PT	POINT
BRD	BOARD	PTD	PAINTED
BRK	BRICK	PTN	PARTITION
BSTMT	BASEMENT	PVC	POLYVINYL CHLORIDE
BUR	BUILT-UP ROOFING	Q	QUARRY TILE
C	CARPET, GORNICE	QT	QUARRY TILE
CB	CATCH BASIN	R	RISER, CHAIR RAIL, RADIUS
CFMF	COLD FORMED METAL FRAMING	RD	ROOF DRAIN
CH	CEILING HEIGHT	RE	REFER TO
CI	CAST IRON	REF	REFERENCE, REFRIGERATOR
CJ	CONTROL JOINT	REINF	REINFORCED
CL	CENTER LINE, CLOSET	RESIL	RESILIENT
CLS	CEILING	RO	ROUGH OPENING
CLO	CLOSET	REQ	REQUIRED
CLR	CLEAR	REV	REVISION
CMU	CONCRETE MASONRY UNIT	RM	ROOM
CP	COLUMN	S	SOLID GORE, SKIM COAT
CONC	CONCRETE	SC	SECTION
CONT	CONTINUOUS	SECT	SECTION
CORR	CORRIDOR	SF	SQUARE FEET
CP	CEILING PAINT	SH	SHELVES
CT	CERAMIC TILE	SHR	SHOWER
CVB	COVERED VINYL BASE	SIM	SIMILAR
D	DOOR, DRYER	SLR	SEALER
DBL	DOUBLE	SPEC	SPECIFICATION
DEPT	DEPARTMENT	SQ	SQUARE
DF	DRINKING FOUNTAIN	SS	STAINLESS STEEL, SERVICE SINK
DH	DOUBLE HUNG	ST	STONE
DIAG	DIAGONAL	STL	STEEL
DIAM	DIAMETER	STN	STAINED
DM	DIMENSION	STOR	STORAGE
DISP	DISPOSAL	STRUC	STRUCTURAL
DTL	DETAIL	T	TREAD, DOOR OPENING, OR WINDOW TRIM
DW	DISHWASHER	TEL	TELEPHONE
DWG	DRAWING	TEMP	TEMPERED
E	EACH	TF	TRANSPARENT FINISH
EA	EXTERIOR INSULATION FINISH SYSTEM	THK	THICKNESS
EJ	EXPANSION JOINT	TOC	TOP OF CONCRETE
EL	ELEVATION	TOX	TOP OF WALL
ELEG	ELECTRICAL	- X	TYPE X
ELEV	ELEVATOR	TYP	TYPICAL
EMER	EMERGENCY	U	UNLESS OTHERWISE NOTED
EQ	EQUAL	UR	URNAL
EQUIP	EQUIPMENT	V	VINYL COMPOSITION TILE
EXIST	EXISTING	VERT	VERTICAL
EXT	EXTERIOR	VEST	VESTIBULE
F	FLOOR DRAIN	VIF	VERIFY IN FIELD
FD	FIRE EXTINGUISHER	VT	VINYL TILE
FE	FINISHED FLOOR, FACTORY FINISH	W	WASHER
FF	FINISH	W	WITH
FL	FLOOR	WC	WATER CLOSET, WALL COVERING
FOAM	FOAM OF WALL	WD	WOOD
FT	FOOTING	WF	WOOD FLOORING
FTG	FOOTING	WO	WITHOUT
G	GAUZE	WP	WATERPROOF
GA	GALVANIZED	WR	WATER RESISTANT
GALV	GENERAL CONTRACTOR	WT	WEIGHT
GC	GLASS/GLAZING		
GL	GYP		
GYP	GYP BOARD		
H	HOSE BIB		
HB	HARDWARE		
HDP	HARDWOOD		
HDWD	HOLLOW METAL		
HM	HORIZONTAL		
HOR	HEIGHT		
HR	HEATING, VENTILATION, AIR CONDITIONING		
HT			
HVAC			
I	INSIDE DIAMETER		
ID	INSULATE (D)		
INS	INTERIOR		
INT			
J	JANITOR		
JAN	JOINT		
JT			
K	KITCHEN		
KIT			
L	LABORATORY		
LAB	LAMINATE		
LAM	LAVATORY		
LAV	LIGHT		
LT	LIGHT GAUGE		
LT GA	LOUVER		
LVR			
M	MIRROR		
M	MANUF		
MANUF	MAXIMUM		
MAX	MARBLE		
MB	MECHANICAL CONTRACTOR		
MC	MEDIUM DENSITY OVERLAY		
MCO	MECH		
MEDH	MEMBRANE		
MEMB	MANUFACTURER		
MFR	MINIMUM		
MIN	MISCELLANEOUS		
MISC	MOLDING		
MLDG	MASONRY OPENING		
MO	MOUNTED		
MTD	METAL		
MTL			
N	NATURAL FINISH		
NATF	NOT IN CONTRACT		
NIC	NOMINAL		
NOM	NO SILL		
NS	NET SQUARE FOOTAGE		
NSF	NOT TO SCALE		
NTS	NUMBER		
NUM			

**GENERAL NOTES:**

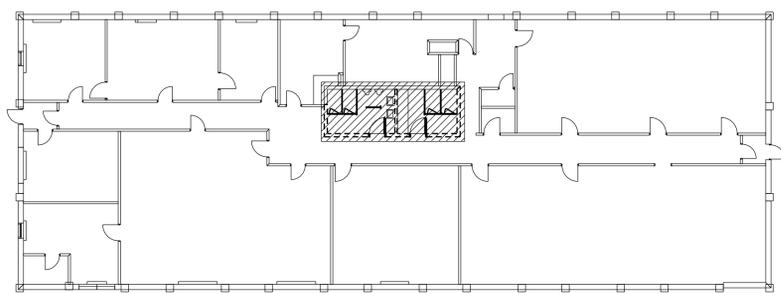
1. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (AIA DOCUMENT A201 LATEST EDITION) WILL APPLY TO THIS CONTRACT
2. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONAL INFORMATION
3. THE CONTRACTOR SHALL REVIEW PLANS AND THE AREA OF CONSTRUCTION CAREFULLY TO ENSURE FULL UNDERSTANDING OF EXACT SCOPE OF WORK
4. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD AND NOTIFY THE DESIGNER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK. NO CHANGES SHALL BE MADE TO ANY PLAN WITHOUT PRIOR COMMENT OF THE DESIGNER
5. THE CONTRACTOR SHALL FURNISH A SYSTEM OF TEMPORARY LIGHTS AND WATER THROUGHOUT THE SPACE UNDER CONSTRUCTION, IF REQUIRED
6. THE CONTRACTOR SHALL REMOVE FROM THE BUILDING ALL RUBBISH AND WASTE MATERIALS FOR WORK
7. ALL DRAWINGS AND CONSTRUCTION NOTES ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ONE WILL BE AS BINDING AS IF CALLED BY ALL
8. THE CONTRACTOR SHALL OBTAIN FULL KNOWLEDGE BY PERSONAL AND CAREFUL EXAMINATION OF ALL EXISTING CONDITIONS AT THE SITE AND OF ALL REQUIREMENTS OF THE SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR HEREBY ACCEPTS ALL SUCH CONDITIONS AND REQUIREMENTS AND HEREBY ASSUMES ALL RESPONSIBILITY AND COSTS RESULTING FROM HIM/HER FAILURE TO OBTAIN KNOWLEDGE OF THEM
9. WHERE THE TERM "OR EQUAL" IS USED IN SPECIFICATIONS, IT SHALL BE UNDERSTOOD THAT THE REFERENCE IS MADE TO THE RULING AND JUDGEMENT OF THE DESIGNER AND SHALL BE SUBMITTED TO THE DESIGNER FOR REVIEW PRIOR TO SUBSTITUTION CUT OFF DATE

DISTRICT: 01  
 COUNTY: STORY  
 PROJECT NUMBER: BG-3A17(009)-80-85  
**AMES, IOWA**  
**BUILDING 5 AND 6 RESTROOM REMODELS**  
 GENERAL NOTES, ABBREVIATIONS, & LEGENDS  
**IOWADOT**  
 SMARTER SIMPLER CUSTOMER DRIVEN  
 OFFICE OF SUPPORT SERVICES  
 800 LINCOLN WAY  
 AMES, IOWA 50010 (515) 239-1299  
 DATE: NOV 2015  
 DRAWN BY: A SMELSER  
 APPROVED: J BURNES  
 REVISIONS:  
 01 SHEET OF 05  
**A-0**

**MATERIALS LEGEND:**

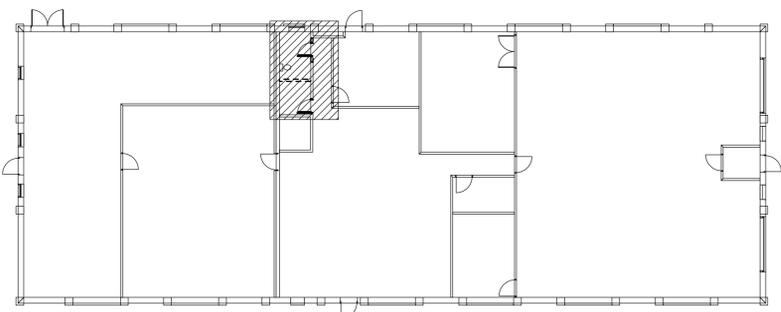


AREA OF WORK

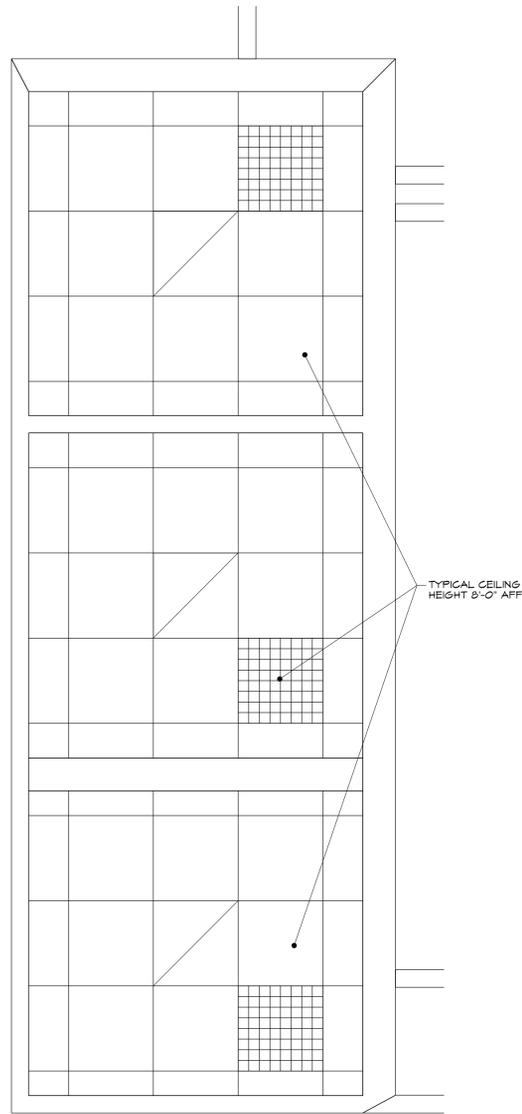


**BUILDING 5 KEY PLAN**  
 SCALE: 1/16"=1'-0"

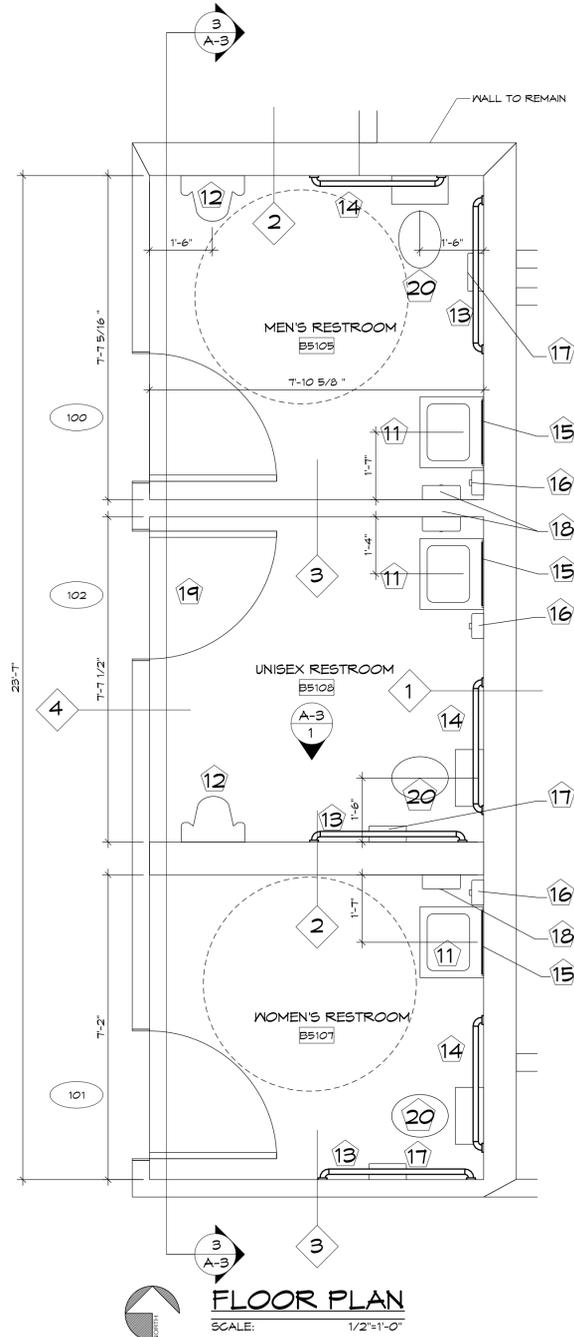
AREA OF WORK



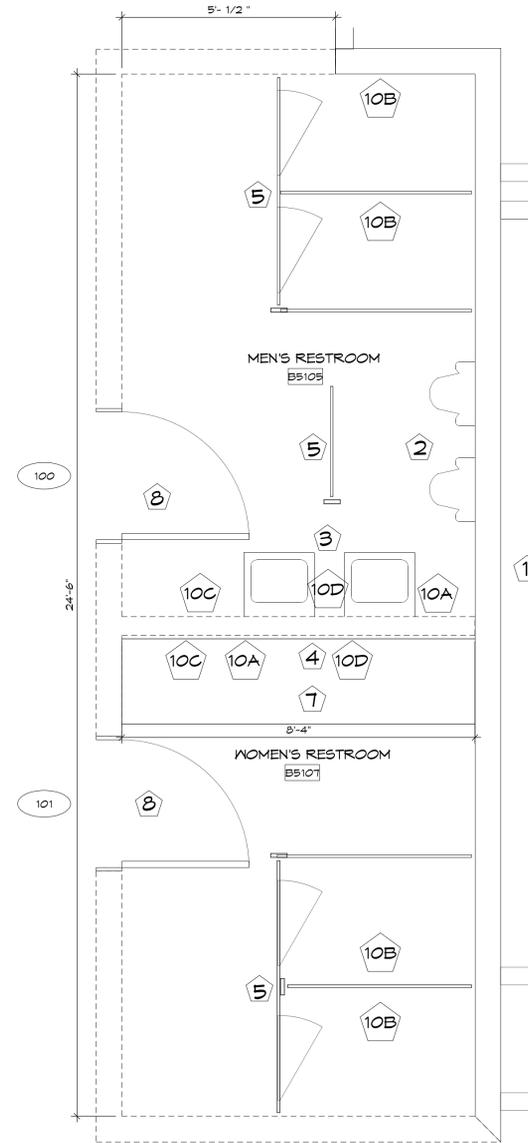
**BUILDING 6 KEY PLAN**  
 SCALE: 1/16"=1'-0"



**REFLECTED CEILING PLAN**  
SCALE: 1/2"=1'-0"



**FLOOR PLAN**  
SCALE: 1/2"=1'-0"



**DEMOLITION PLAN**  
SCALE: 1/2"=1'-0"

**NOTES:**

- EXISTING EAST WALL FRAMING TO REMAIN; REMOVE THE RESTROOM SIDE FINISH MATERIAL
- SEE SHEET A-3 FOR ELEVATIONS WITH MOUNTING HEIGHTS

**DEMO PLAN KEY:**

- WALLS TO BE REMOVED

**DEMOLITION NOTES:**

- EXISTING WALL TO REMAIN, REMOVE RESTROOM SIDE FINISH LEAVE FRAMING
- URNIALS TO BE REMOVED
- WALL HUNG LAVATORIES TO BE REMOVED
- INTERIOR WALL TO BE REMOVED
- REMOVE METAL TOILET PARTITIONS
- DOOR TO BE REMOVED (BUILDING 6)
- WALL HUNG SOLID SURFACE COUNTER TO BE REMOVED
- DOORS TO BE REUSED, FRAMES TO BE REMOVED
- FLOOR MOUNTED WATER CLOSETS TO BE REMOVED
- RESTROOM ACCESSORIES
- SOAP DISPENSER TO BE SALVAGED
- TOILET PAPER DISPENSER TO BE SALVAGED
- PAPER TOWEL DISPENSER TO BE SALVAGED
- MIRROR TO BE REMOVED

**FLOOR PLAN NOTES:**

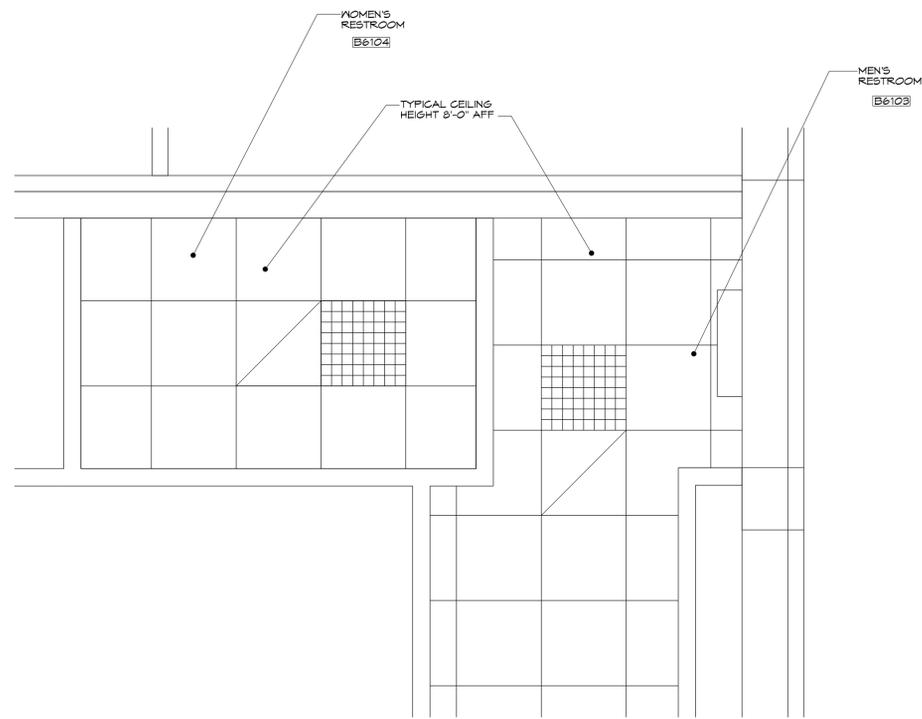
- WALL MOUNTED LAVATORY AT ADA HEIGHT
- WALL MOUNTED URNIAL AT ADA HEIGHT
- 42" GRAB BAR
- 36" GRAB BAR
- 24 X 36 MIRROR
- SOAP DISPENSER (DOT PROVIDED CONTRACTOR TO INSTALL)
- TOILET PAPER DISPENSER (DOT PROVIDED CONTRACTOR TO INSTALL)
- PAPER TOWEL DISPENSER (DOT PROVIDED CONTRACTOR TO INSTALL)
- NEW DOOR TO MATCH EXISTING WOOD DOORS (BUILDING 5)
- FLOOR MOUNTED WATER CLOSET

**CEILING PLAN KEY:**

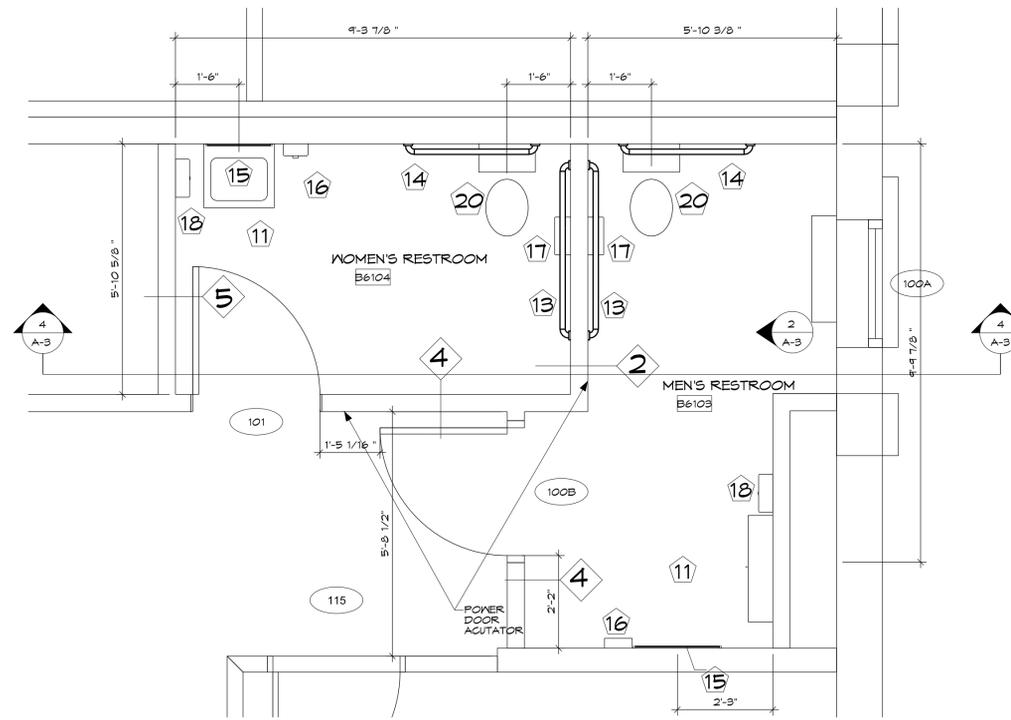
- 2 X 2 LITHONIA VTLED RECESSED FIXTURE
- 2 X 2 USG NO. 131, SQUARE EDGE, FIGURED WHITE CEILING TILE ARMSTRONG PRELUDE GRID WHITE
- EXHAUST GRILLE

DISTRICT:	01
COUNTY:	STORY
PROJECT NUMBER:	BG-3A17(009)-80-85
<b>BUILDING 5 AND 6 RESTROOM REMODELS</b>	
<b>BUILDING 5 DEMOLITION AND PROPOSED FLOOR PLANS</b>	
<b>AMES, IOWA</b>	
 <small>SMARTER SIMPLER CUSTOMER DRIVEN</small> <small>OFFICE OF SUPPORT SERVICES</small> <small>800 LUCKOLY</small> <small>AMES, IOWA 50010-1515/239-1299</small>	
DATE:	NOV 2015
DRAWN BY:	A SMELSER
APPROVED:	J BURNES
REVISIONS:	
<b>02</b> SHEET OF <b>11</b> <b>A-1</b>	

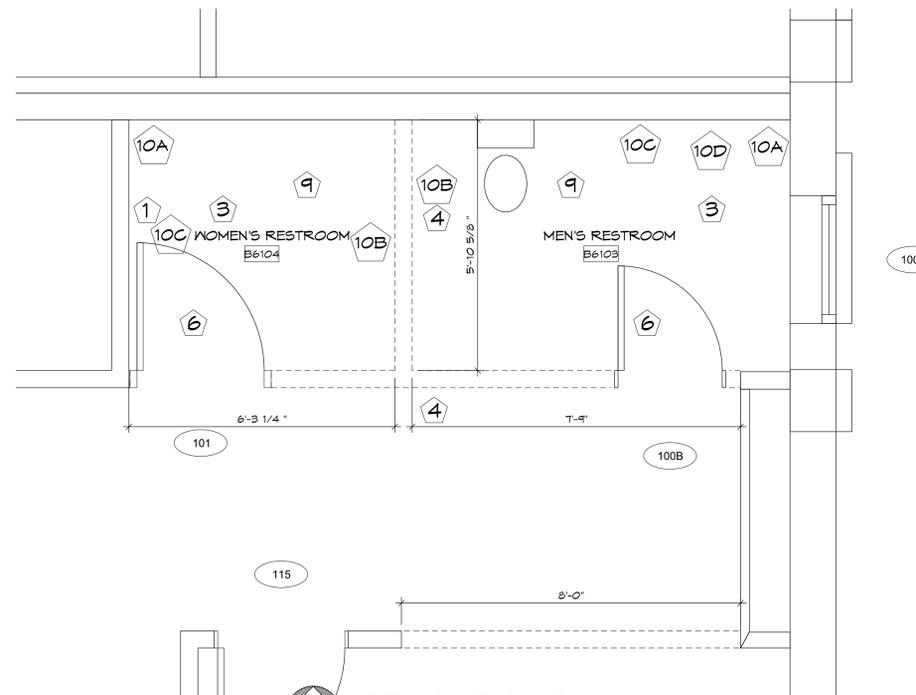
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**REFLECTED CEILING PLAN**  
SCALE: 1/2"=1'-0"



**FLOOR PLAN**  
SCALE: 1/2"=1'-0"



**DEMOLITION PLAN**  
SCALE: 1/2"=1'-0"

**NOTES:**

- EXISTING WEST WALL FRAMING TO REMAIN; REMOVE THE RESTROOM SIDE FINISH MATERIAL.
- SEE SHEET A-3 FOR ELEVATIONS WITH MOUNTING HEIGHTS
- OPENING 100B TO HAVE ELECTRIC DOOR OPERATOR

**DEMO PLAN KEY:**

--- WALLS TO BE REMOVED

**DEMOLITION NOTES:**

- EXISTING WALL TO REMAIN, REMOVE RESTROOM SIDE FINISH LEAVE FRAMING
- URNIALS TO BE REMOVED
- WALL HUNG LAVATORIES TO BE REMOVED
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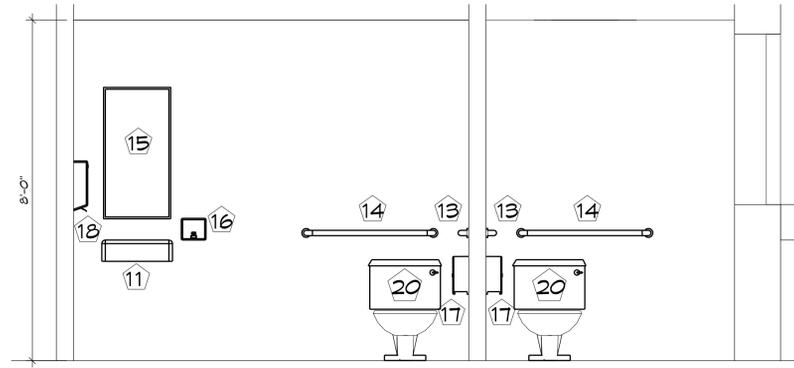
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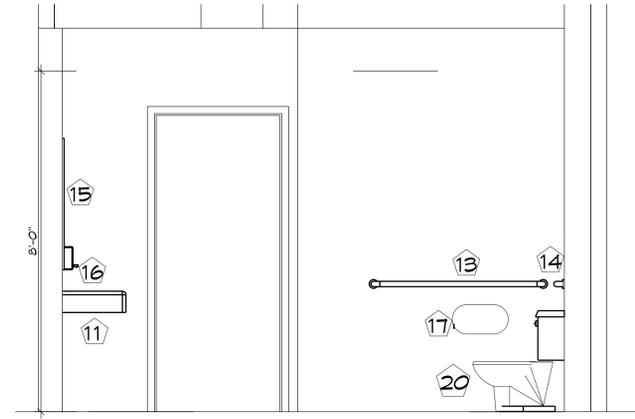
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REVISIONS:	
03 SHEET OF 11	
<b>A-2</b>	

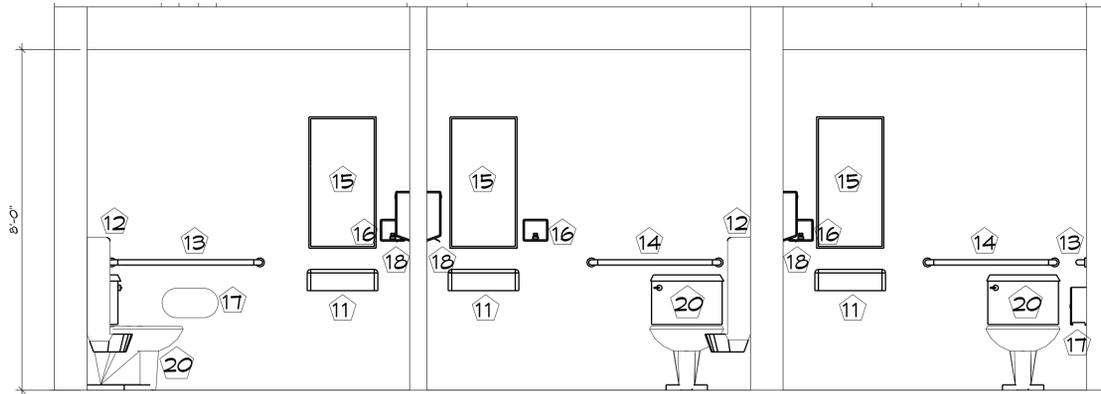
W:\Operations\Finances\Facilities\Projects\District 1\Ames buildings\852A17 - Building 5\009 - Restroom Remodel\2015\DWGS\04\_A3.dgn by smelsel on 30-OCT-2015 at 10:14



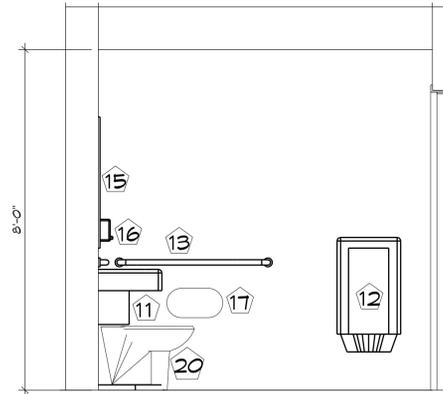
**BUILDING 6**  
4 NORTH SECTION  
A-3 SCALE: 1/2"=1'-0"



**BUILDING 6 MEN'S**  
2 WEST ELEVATION  
A-3 SCALE: 1/2"=1'-0"



**BUILDING 5**  
3 EAST SECTION  
A-3 SCALE: 1/2"=1'-0"



**BUILDING 5**  
1 UNISEX RESTROOM  
SOUTH ELEVATION  
A-3 SCALE: 1/2"=1'-0"

**ELEVATION KEY:**

- 11 WALL MOUNTED LAVATORY AT ADA HEIGHT
- 12 WALL MOUNTED URINAL AT ADA HEIGHT
- 13 42" GRAB BAR
- 14 36" GRAB BAR
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- 19 NEW DOOR TO MATCH EXISTING WOOD DOORS (BUILDING 5)
- 20 FLOOR MOUNTED WATER CLOSET

**ROOM FINISH SCHEDULE**

NO.	ROOM NAME	FLR	BASE	WALLS				CLG	CLG HGT	REMARKS
				N	E	S	W			
B5105	MEN'S RESTROOM	LT - 1	B1	M1	M1	M1	M1	C1	8'-0"	
B5107	WOMEN'S RESTROOM	LT - 1	B1	M1	M1	M1	M1	C1	8'-0"	
B5108	UNISEX RESTROOM	LT - 1	B1	M1	M1	M1	M1	C1	8'-0"	
B6103	MEN'S RESTROOM	LT - 1	B1	M1	M1	M1	M1	C1	8'-0"	
B6104	WOMEN'S RESTROOM	LT - 1	B1	M1	M1	M1	M1	C1	8'-0"	

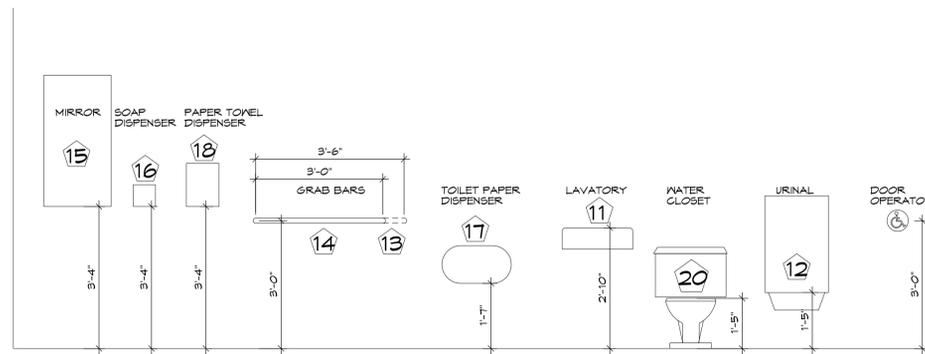
FLOORS:  
LT LINOLEUM TILE  
GYPSUM WALLS:  
PT-1 SN  
BASE:  
B1 4" VINYL  
JOHNSONITE  
PT-2 SN  
CEILING:  
C1 ACOUSTIC TILE  
WALLS:  
M1 GYPSUM WALLBOARD PAINTED

**DOOR & FRAME SCHEDULE**

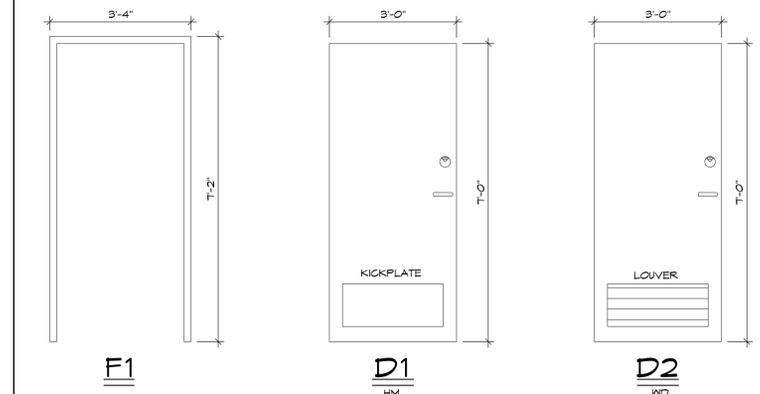
NO.	SIZE	TYPE	DOOR				FRAME				HARDWARE GROUP	REMARKS				
			MATL	THK	GLZ	FINISH	TYPE	MATL	WIDTH	HEIGHT			FINISH	GLZ		
B5105	3-0	T-O	EXIST	ND	1-3/4	----	----	F1	HM	3-4	T-2	PT - 3	----	HX-11	EXISTING DOORS TO BE REUSED	
B5107	3-0	T-O	EXIST	ND	1-3/4	----	----	F1	HM	3-4	T-2	PT - 3	----	HX-11	EXISTING DOORS TO BE REUSED	
B5108	3-0	T-O	D2	ND	1-3/4	----	----	TF	F1	HM	3-4	T-2	PT - 3	----	HX-11	MATCH EXISTING WOOD DOOR FINISH
B6103	3-0	T-O	D1	HM	1-3/4	----	PT - 3	F1	HM	3-4	T-2	PT - 3	----	HX-11	AUTOMATIC OPENER	
B6104	3-0	T-O	D1	HM	1-3/4	----	PT - 3	F1	HM	3-4	T-2	PT - 3	----	HX-11		

HX-11 LOCKSET (OFFICE/ENTRY), HINGES, WALL STOP, SILENCERS, VACANT/OCCUPIED BOLT  
METAL DOOR JAMBS AND DOORS:  
PT-3 SN

ND - WOOD  
AL - ALUMINUM  
HM - METAL  
PT - PAINT  
OPF - OPAQUE FINISH



**TYPICAL ADA MOUNTING HEIGHTS**  
SCALE: 1/2"=1'-0"



DISTRICT: 01  
 COUNTY: STORY  
 AMES, IOWA  
 BUILDING 5 AND 6 RESTROOM REMODELS  
 SCHEDULES AND ELEVATIONS  
 PROJECT NUMBER: BG-3A17(009)-80-85

**IOWADOT**  
 SMARTER SIMPLER CUSTOMER DRIVEN  
 OFFICE OF SUPPORT SERVICES  
 800 COLLEGE  
 AMES, IOWA 50010-1515/239-1299

DATE: NOV 2015  
 DRAWN BY: A SMELSER  
 APPROVED: J BURNES  
 REVISIONS:

# IDOT BUILDING 5 AND 6 RESTROOM REMODELS

## IOWA DOT

800 LINCOLN WAY AMES, IA 50010

### SHEET INDEX

GENERAL ME00	COVER SHEET
MECHANICAL MP100 MP200 MP300	MECHANICAL & PLUMBING PLANS - BLDG 5 MECHANICAL & PLUMBING PLANS - BLDG 6 MECHANICAL AND PLUMBING SCHEDULES AND DETAILS
ELECTRICAL E101 E201 E300 E600	FIRST FLOOR LIGHTING PLAN FIRST FLOOR POWER PLAN FIRST FLOOR SYSTEMS PLAN ELECTRICAL SCHEDULES

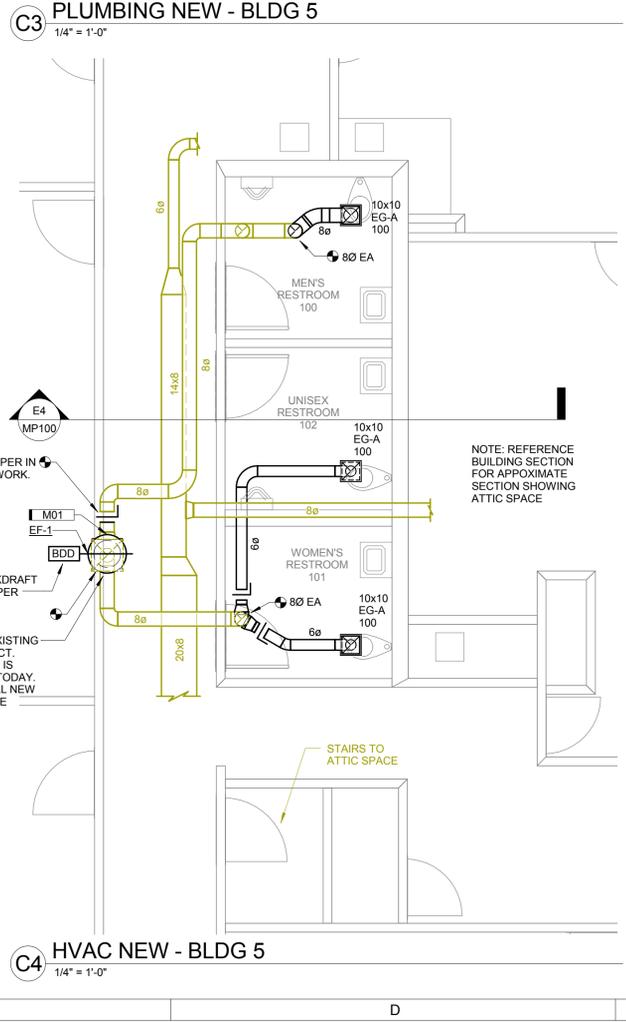
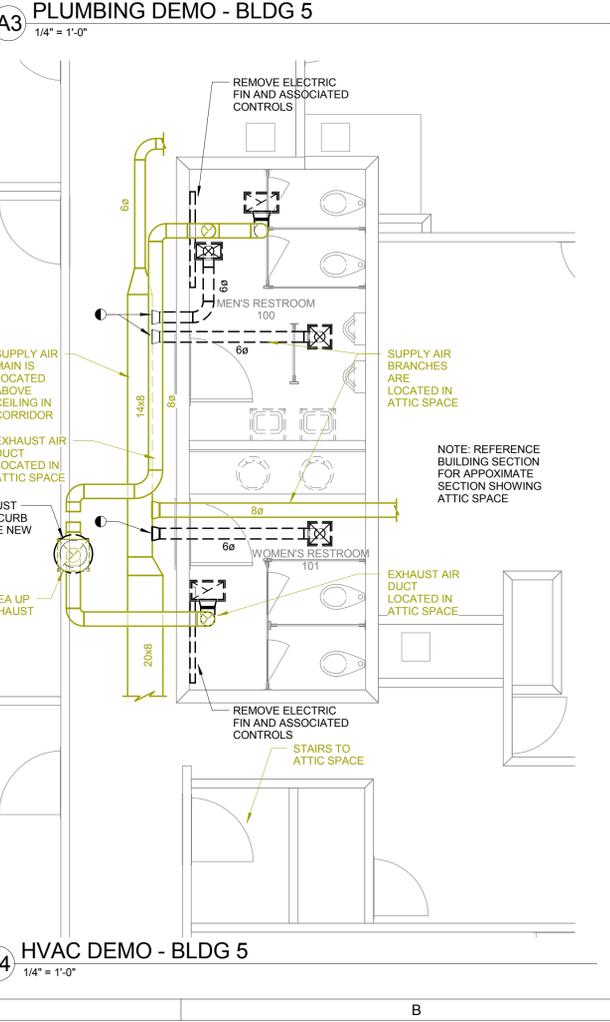
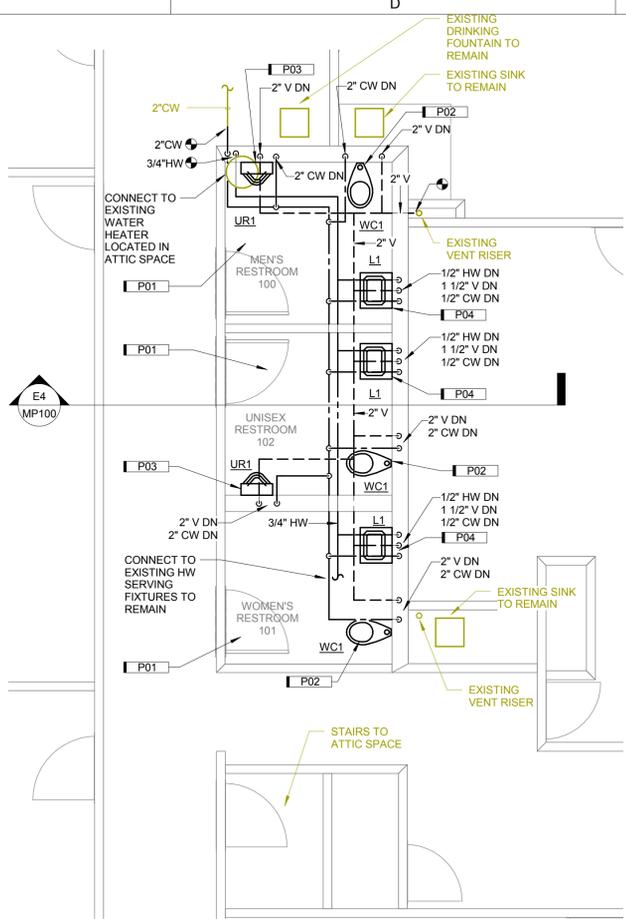
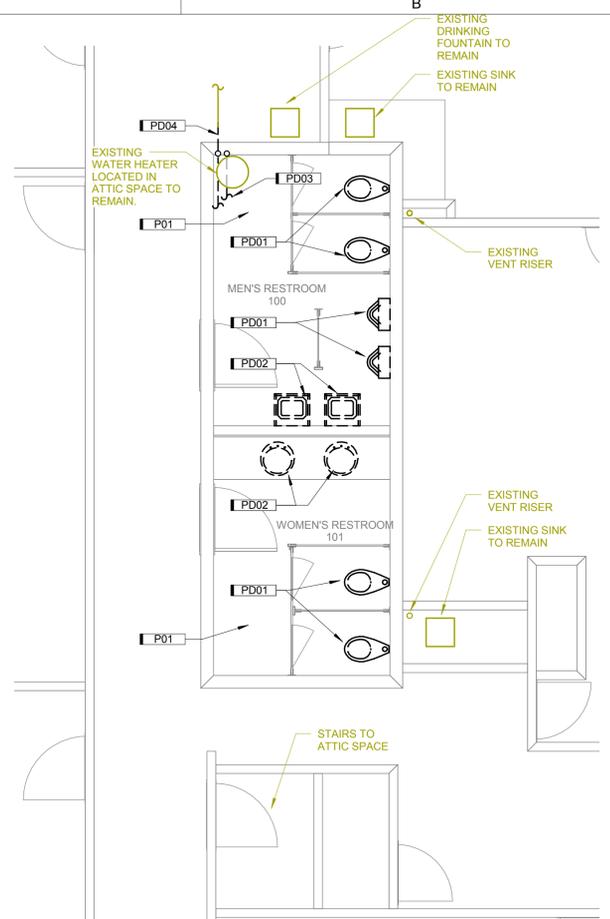
### CERTIFICATIONS

#### MECHANICAL ENGINEER

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	Signature _____ Date _____
	Printed or typed name <b>Brian A. Steffens</b>
	License Number <b>22014</b>
	My license renewal date is <b>12/31/2015</b>
PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: <b>ME00, MP SHEETS</b>	

#### ELECTRICAL ENGINEER

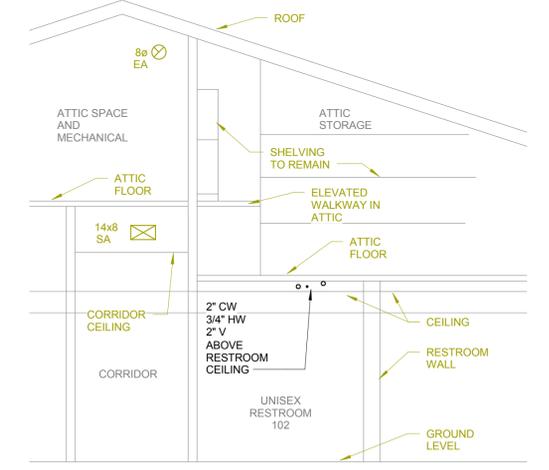
	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	Signature _____ Date _____
	Printed or typed name <b>Edin Smallovic</b>
	License Number <b>21953</b>
	My license renewal date is <b>12/31/2016</b>
PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: <b>E SHEETS</b>	



- GENERAL DEMO NOTES**
- THIS DRAWING DIAGRAMMATICALLY REPRESENTS THE LAYOUT OF EXISTING CONDITIONS WITH MAJOR MECHANICAL AND ELECTRICAL COMPONENTS. PIPING TO ALL EXISTING PLUMBING FITURES IS NOT SHOWN. DRAWINGS NOT INTENDED TO SHOW ACCESSORIES OR INCIDENTALS COMMON TO EQUIPMENT INDICATED, THOUGH THESE ITEMS SHALL BE REMOVED. ACCESSIBILITY TO DEMOLITION ITEMS SHALL NOT BE INFERRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF BUILDING AND EXISTING CONDITIONS, PRIOR TO BID SUBMISSION.
  - DEMOLITION OF PIPING SHALL INCLUDE ALL HANGERS, FITTINGS, VALVES, ETC.
  - LIGHT LINES INDICATE EXISTING PIPING, EQUIPMENT, PLUMBING FIXTURES, ETC. TO REMAIN. BOLD LINES INDICATE DEMOLITION WORK THIS PROJECT.
  - CONTRACTOR SHALL PATCH/REPAIR ALL UNUSED OPENINGS AND MODIFIED FINISH SURFACES. PATCHING SHALL MATCH MATERIALS, FINISH, AND TEXTURE OF ADJACENT SURFACES.

- GENERAL NOTES**
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  - COORDINATE ROUGH-IN AND FINAL LOCATION OF DUCTWORK AND PIPING WITH LIGHTING, STRUCTURE, SPRINKLER, ETC. PROVIDE OFFSETS AND/OR EASEMENTS, OR RELOCATE AS REQUIRED TO AVOID CONFLICTS WITH WORK OF OTHER TRADES. DUCT DROPPRIES SHALL BE RADIUS ELBOWS AND BE AT A MAXIMUM ANGLE OF 45 DEGREES.
  - INSTALL MANUAL VOLUME DAMPERS IN ALL SUPPLY, RETURN, AND EXHAUST DUCT SYSTEMS AS REQUIRED FOR CONTROLLING AIR VOLUMES TO TRUNK DUCTS, BRANCH DUCTS, OUTLETS AND INLETS. CONTRACTOR SHALL INSTALL A COMPLETE SYSTEM OF DAMPERS AS REQUIRED FOR BALANCING AIR SYSTEMS.
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  - PROVIDE WATER HAMMER ARRESTORS FOR EACH NEW PLUMBING FIXTURE OR GROUP OF FIXTURES AND FOR ALL FIXTURES RECEIVING NEW DOMESTIC WATER CONNECTIONS. SIZE AND LOCATION REQUIREMENTS SHALL BE AS PER PDI STANDARD PDI-WH 201.
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KEYNOTE LEGEND	
M01	CONNECT TO EXISTING DUCTWORK. INSTALL NEW FAN ON EXISTING CURB WITH CUSTOM CURB ADAPTOR. CONTRACTOR SHALL FIELD MEASURE EXISTING CURB DIMENSIONS. PROVIDE ACCESS DOOR IN EXISTING DUCTWORK IF DAMPER CANNOT BE ACCESSED BELOW FAN ON ROOF.
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P02	ROUTE 3" SANITARY FROM NEW WATER CLOSET TO EXISTING MAIN UNDERFLOOR. PROVIDE NEW 2" VENT PIPE AND ROUTE UP WALL AND ABOVE CEILING TO CONNECT TO EXISTING VENT MAIN RISER. SAWCUT FLOOR AND OPEN WALL AS REQUIRED. COORDINATE ALL PATCHWORK FINISHES PER ARCH PLANS.
P03	ROUTE 2" SANITARY FROM NEW URINAL TO EXISTING MAIN UNDERFLOOR. 2" VENT PIPE TO ROUTE UP WALL AND ROUTE ABOVE CEILING AS SHOWN. SAWCUT FLOOR AND OPEN WALL AS REQUIRED. COORDINATE ALL PATCHWORK FINISHES PER ARCH PLANS.
P04	ROUTE 2" SANITARY FROM NEW LAVATORY TO EXISTING MAIN UNDERFLOOR. 1-1/2" VENT PIPE TO ROUTE UP WALL AND ROUTE ABOVE CEILING AS SHOWN. SAWCUT FLOOR AND OPEN WALL AS REQUIRED. COORDINATE ALL PATCHWORK FINISHES PER ARCH PLANS.
PD01	REMOVE FIXTURE AND ALL ASSOCIATED DOMESTIC PIPING. REMOVE SANITARY PIPING BACK TO MAIN UNDERFLOOR. REMOVE VENTING AS REQUIRED IN CHASE WALL FOR INSTALLATION OF NEW PIPING AND FIXTURES. SAWCUT FLOOR/OPEN WALL AS REQUIRED.
PD02	REMOVE LAVATORY AND ALL ASSOCIATED DOMESTIC PIPING. REMOVE SANITARY AND VENT PIPING BACK TO MAIN UNDERFLOOR. SAWCUT FLOOR/OPEN WALL AS REQUIRED.
PD03	REMOVE DOMESTIC HOT WATER PIPING BACK TO WATER HEATER AND PREPARE FOR NEW CONNECTION. REMOVE ALL PIPING SERVING LAVATORIES BEING REMOVED. HOT WATER SERVING SINKS TO REMAIN SHALL BE MAINTAINED. RECONNECT AS REQUIRED.
PD04	REMOVE DOMESTIC COLD WATER PIPING AND PREPARE FOR NEW CONNECTION.



Printed

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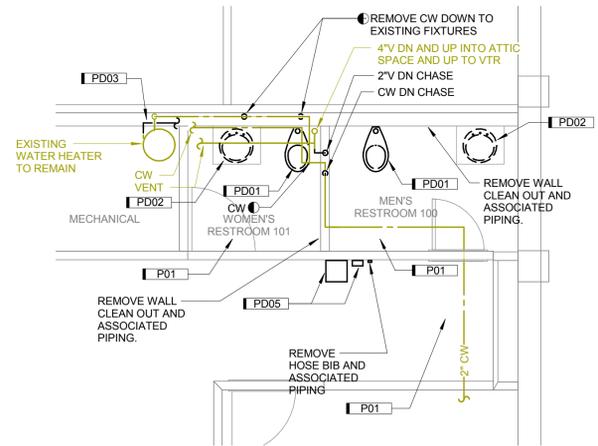
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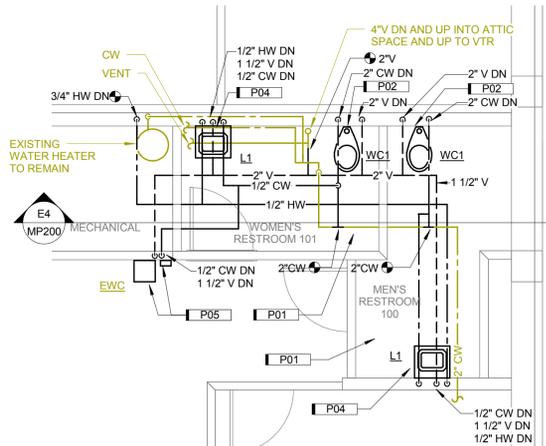
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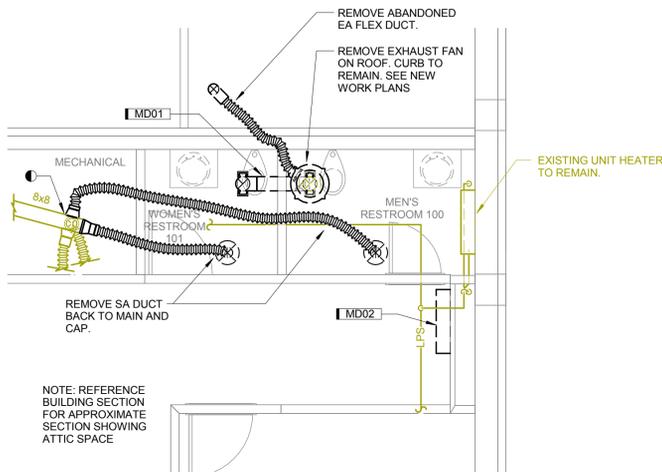
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MD01	REMOVE EA GRILLES AND DUCT. 80 EA DUCT RISER TO REMAIN. PREPARE FOR NEW CONNECTIONS.
MD02	REMOVE STEAM HEATER AND ALL ASSOCIATED CONTROLS. REMOVE PNEUMATIC TUBING BACK TO MAIN AND CAP. REMOVE STEAM SUPPLY BACK TO MAIN AND PATCH INSULATION TO MATCH EXISTING. REMOVE CONDENSATE BACK TO MAIN AND CAP.
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P05	RELOCATED ELECTRIC WATER COOLER AND FILTER. ROUTE 2" SANITARY FROM RELOCATED WATER COOLER TO EXISTING MAIN UNDERFLOOR. ROUTE 1-1/2" V UP WALL AND ROUTE ABOVE CEILING AS SHOWN. OPEN WALL/SAW CUT FLOOR AS REQUIRED. COORDINATE ALL PATCHWORK FINISHES PER ARCH PLANS.
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PD05	RELOCATE EXISTING ELECTRIC WATER COOLER AND FILTER. SEE NEW WORK PLANS FOR LOCATION. REMOVE DOMESTIC, SANITARY, AND VENT PIPING CONNECTIONS TO WATER COOLER. OPEN WALLS/SAWCUT FLOOR AS REQUIRED.



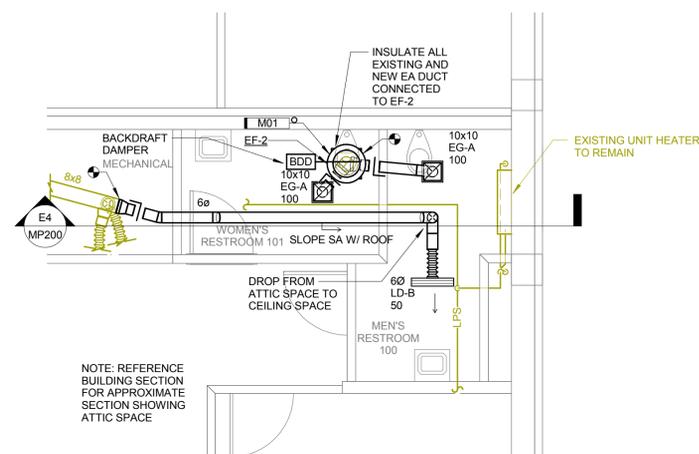
**A2 PLUMBING DEMO - BLDG 6**  
 1/4" = 1'-0"



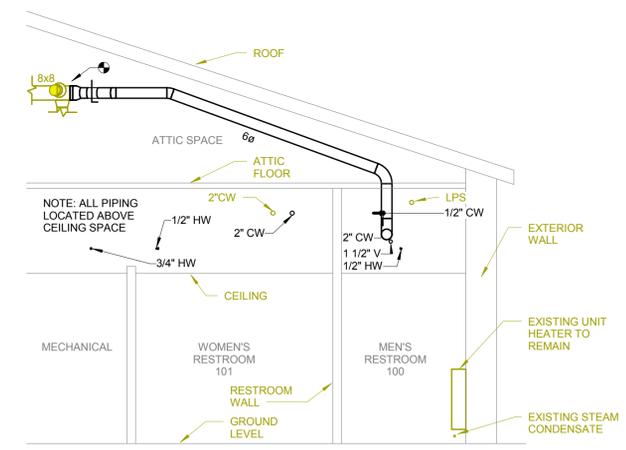
**C2 PLUMBING NEW - BLDG 6**  
 1/4" = 1'-0"



**A4 HVAC DEMO - BLDG 6**  
 1/4" = 1'-0"



**C4 HVAC NEW - BLDG 6**  
 1/4" = 1'-0"



**E4 BUILDING 6 SECTION**  
 NOT TO SCALE



PLUMBING FIXTURE SCHEDULE

WC1 (WATER CLOSET - ADA COMPLIANT):

FIXTURE: AMERICAN STANDARD, MADERA FLOWISE SERIES 3461.001, FLOOR MOUNTED, BOTTOM OUTLET, FLUSH VALVE, 1.28 GPF, WHITE VITREOUS CHINA WITH EVERCLEAN SURFACE, ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD, BOLT CAPS, 10" ROUGH-IN. TOP OF RIM NOMINALLY 17" AFF.

FLUSH VALVE: SLOAN, ROYAL OPTIMA 111-1.28 ES-S TWO SERIES, EXPOSED, 1 1/2" TOP SPUD, 11 1/2" ROUGH IN ABOVE RIM, SOLENOID OPERATOR AND SENSOR, TAMPERPROOF WALL COVER, BACK-CHECK ANGLE STOP, VACUUM BREAKER, WALL AND SPUD FLANGES. SLOAN EL154 TRANSFORMER (120V TO 24VAC, 48 VA) WITH MOUNTING PLATE (SERVES 10 URINAL/CLOSET UNITS)

SEAT: OLSONITE 10SSCT, ELONGATED, SOLID PLASTIC, OPEN FRONT, WHITE, HEAVY DUTY SELF SUSTAINING CHECK HINGE, BUMPS, NO COVER

UR1 (URINAL ADA COMPLIANT):

FIXTURE: AMERICAN STANDARD, WASHBROOK FLOWISE 6590.00EC SERIES, WALL HUNG, BACK OUTLET, FLUSH VALVE, 0.5 GPF, WHITE VITREOUS CHINA WITH EVERCLEAN SURFACE, WASHOUT TYPE, PRIVACY SHIELDS, 3/4" TOP SPUD, INTEGRAL TRAP. TOP OF RIM TO BE 17" AFF

FLUSH VALVE: SLOAN ROYAL OPTIMA 186 ES-S SERIES, 0.5 GPF, EXPOSED, TOP SPUD, 11 1/2" ROUGH IN ABOVE FIXTURE, SOLENOID OPERATOR AND SENSOR, TAMPERPROOF WALL COVER, BACK-CHECK ANGLE STOP, VACUUM BREAKER, WALL AND SPUD FLANGES. SLOAN EL154 TRANSFORMER (120V TO 24VAC, 48 VA) WITH MOUNTING PLATE (SERVES 10 URINAL/CLOSET UNITS)

CARRIER: ZURN, ADJUSTABLE HEIGHT PLATE TYPE SYSTEM WITH BEARING PLATE FOR APPLICABLE FIXTURE CONSTRUCTION AND PLUMBING ARRANGEMENT. ALL PORTIONS OF CARRIER TO BE CONCEALED IN CONSTRUCTION

L1 (LAVATORY - ADA):

FIXTURE: AMERICAN STANDARD LUCERNE 0356.073 SERIES WALL HUNG LAVATORY, WHITE VITREOUS CHINA, FAUCET LEDGE, FRONT OVERFLOW, 3 FAUCET HOLES ON 4" CENTERS, NOMINAL 20"x18", CONCEALED ARM SUPPORT. MOUNT TOP OF BASIN AT 34" AFF

FAUCET: SLOAN OPTIMA ETF-80 SERIES SENSOR OPERATED FAUCET WITH 0.5 GPM SPRAY HEAD ADJUSTABLE RANGE, CONTROL MODULE, DECK PLATE FOR THREE FAUCET HOLES ON 2" CENTERS, CHROME PLATED FAUCET SET TO DELIVER 0.5 GAL/CYCLE OF 105 DEG F. MAX. WATER, 1/2" INLETS AND OUTLET, ANGLE STOP INLETS WITH BACK-CHECK, CHROME PLATED FLEXIBLE RISER TO TEMPERED WATER SOLENOID VALVE. COORDINATE INSTALLATION FOR WHEELCHAIR ACCESS. PROVIDE BOX MOUNTED TRANSFORMER FOR REMOTE INSTALLATION

MIXING VALVE: POWERS, HYDROGUARD LFLM495 SERIES LEAD FREE THERMOSTATIC MIXING VALVE. MOUNT UNDER THE FIXTURE, 1/2" INLETS AND OUTLET. SET VALVE TO DELIVER 105 DEG WATER TO SOLENOID VALVE FOR ELECTRONIC FAUCET OR HOT WATER SIDE OF MANUAL FAUCET.

WASTE: CHROME PLATED WHEELCHAIR LAVATORY GRID DRAIN FOR 1 1/2" HOLE SIZE, 17 GAUGE - 1 1/4" CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE-TO-WALL. OFFSET DRAIN PIPING ASSEMBLY FOR WHEELCHAIR ACCESS

NOTE: INSTALL STOPS CLOSE TO WALL TO AVOID KNEES OF USERS IN WHEELCHAIRS AND PROVIDE WHITE PREFABRICATED VINYL COVER FOR WATER SUPPLY LINES AND WASTE (TRUEBOR OR EQUIVALENT)

CARRIER: ZURN CONCEALED ARM / THIN PLATE SYSTEM, CAST IRON.

EW1 (EXISTING RELOCATED WATER COOLER):

FIXTURE: EXISTING FIXTURE, RELOCATE WATER COOLER AND FILTER.

MOUNTING: UNITS SHALL BE INSTALLED AT MOUNTING HEIGHTS REQUIRED TO ADA COMPLIANCE. REFERENCE MANUFACTURERS WRITTEN REQUIREMENTS.

SUPPLIES: 1/2" COLD WATER WITH CONCEALED BALL VALVE

WASTE: 1 1/4" PVC P-TRAP CONCEALED INSIDE UNIT

WIRING: BY ELECTRICAL CONTRACTOR - COORDINATE ROUGH-IN LOCATION AND REQUIREMENTS

WATER HAMMER ARRESTERS:

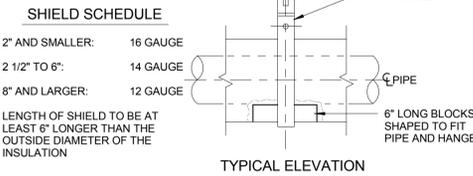
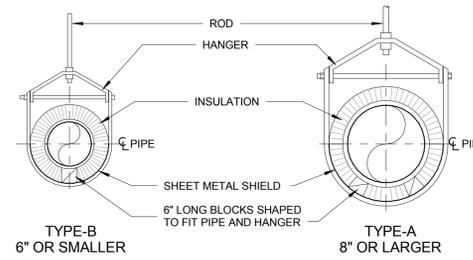
FIXTURE: SIOUX CHIEF MANUFACTURING COMPANY, HYDRA-RESTER, PISTON TYPE ARRESTER, TYPE L COPPER CHAMBER WITH PERMANENT 60 PSI AIR CHARGE ABOVE A TWO OR RING PISTON, CERTIFIED TO FUNCTION IN ACCORDANCE WITH STANDARDS, PDI-WH201 AND ASSE-1010. LOCATIONS NOT SHOWN ON PLANS. REFERENCE SPECIFICATIONS. CARRIER: ZURN CONCEALED ARM / THIN PLATE SYSTEM, CAST IRON.

FAN SCHEDULE														
PLAN MARK	TYPE	CFM	ESP (IN H2O)	NO FLOW ESP (IN H2O)	MOTOR DATA						INLET SONES	DESIGN BASIS	REMARKS	
					BHP	HP	VOLTS	PHASE	DRIVE	RPM				DAMPER TYPE
EF-1	DOWNBLAST CENT.	300	0.50	0.65	0.06	1/8	120	1	DIRECT	1557	BACKDRAFT	7.6	GREENHECK G-85-VG	BUILDING 5 RESTROOMS
EF-2	DOWNBLAST CENT.	200	0.50	0.61	0.05	1/8	120	1	DIRECT	1521	BACKDRAFT	7.5	GREENHECK G-80-VG	BUILDING 6 RESTROOMS

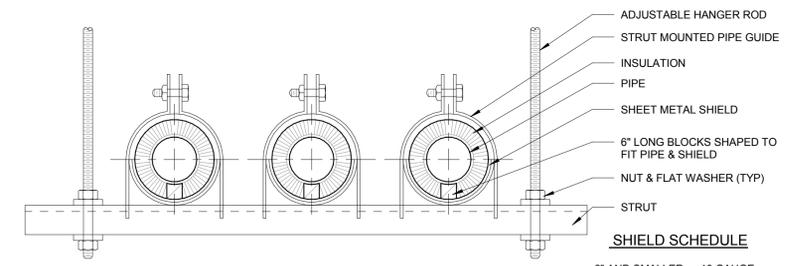
- NOTES: 1. COORDINATE DAMPERS WITH SHEET METAL CONTRACTOR.  
 2. EF-1 SHALL HAVE TWO SPEED EC MOTOR, DIALS ON FAN. LOW SPEED (60 CFM) TO OPERATE DURING UNOCCUPIED, HIGH SPEED (300 CFM) TRIGGERED BY EITHER RESTROOM OCC SENSOR IN THREE RESTROOMS. CONTROL WIRING BY ELEC.  
 3. EF-2 SHALL HAVE TWO SPEED EC MOTOR, DIALS ON FAN. LOW SPEED (40 CFM) TO OPERATE DURING UNOCCUPIED, HIGH SPEED (200 CFM) TRIGGERED BY EITHER RESTROOM OCC SENSOR IN TWO RESTROOMS. CONTROL WIRING BY ELEC.  
 4. EF-1 AND EF-2 TO BE POWERED THROUGH SEPARATE DIGITAL PROGRAMMABLE TIMECLOCKS PROVIDED BY ELECTRICAL, SEE ELECTRICAL PLANS.

DIFFUSERS, REGISTERS & GRILLES SCHEDULE						
IDENT NO.	MATERIAL OF CONSTRUCTION	DESCRIPTION	FACTORY FINISH	BLOW PATTERN	DESIGN BASIS	REMARKS
A	ALUM	1/2" SPACING, 45° SINGLE DEFLECTION	WHITE	ADJ.	TITUS 4FL	CEILING/SIDEWALL EXHAUST/RETURN
B	ALUM	(2) 3/4" SLOTS x 24" LONG	WHITE	ADJ.	TITUS ML-38	RESTROOM SUPPLY

- NOTES: 1. COORDINATE MOUNTING STYLES WITH CEILING TYPE.



C3 INSULATED PIPE HANGER DETAIL  
NOT TO SCALE



- NOTES:  
 1. SIZE STRUT AND CLAMP TO ADEQUATELY SUPPORT LOAD  
 2. STRUT SHALL BE EPOXY PAINTED

E3 TRAPEZE TYPE HANGER DETAIL  
NOT TO SCALE

FIXTURE PIPING CONNECTION SCHEDULE					
FIXTURE	WASTE	VENT	HW	CW	REMARKS
WC	3"	2"	---	1"	WATERCLOSET, FLOOR-MOUNT
UR	2"	2"	---	3/4"	URINAL
L	1-1/2"	1-1/2"	1/2"	1/2"	LAVATORY
EW1	1-1/2"	1-1/2"	---	1/2"	ELECTRIC WATER COOLER

NOTE:  
 1. CONNECTION SIZES INDICATED ARE MINIMUM SIZES UNLESS OTHERWISE NOTED ON PLANS. MINIMUM UNDERFLOOR PIPE SIZE SHALL BE 2"

**LINE WEIGHTS**

**DEMOLITION**

--- BOLD DASHED LINES INDICATE EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. TO BE REMOVED THIS CONTRACT UNLESS NOTED OTHERWISE.

— LIGHT SOLID LINES INDICATE EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. TO REMAIN UNLESS NOTED OTHERWISE.

**NEW WORK**

— BOLD LINES INDICATE NEW EQUIPMENT, DUCTWORK, PIPING, ETC. THIS CONTRACT UNLESS NOTED OTHERWISE.

— LIGHT SOLID LINES INDICATE EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. TO REMAIN UNLESS NOTED OTHERWISE.

A

B

C

D

E

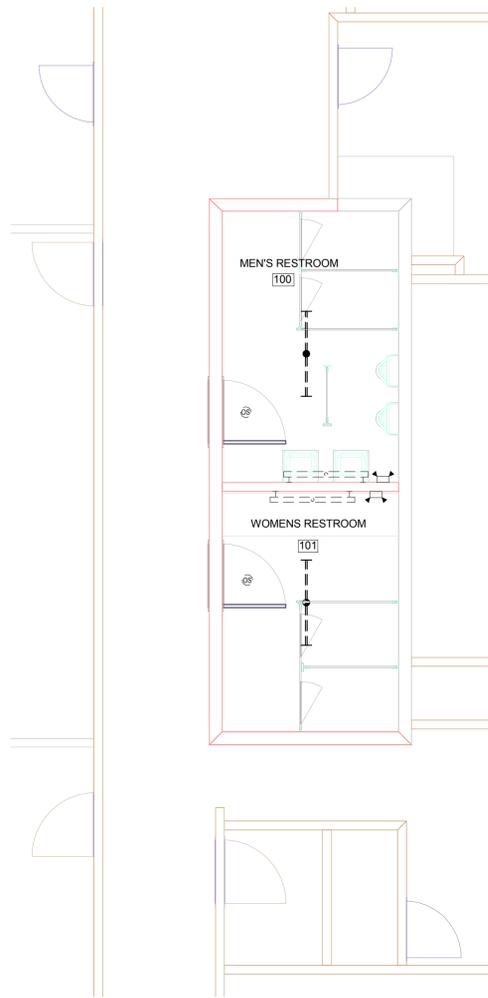
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1

2

3

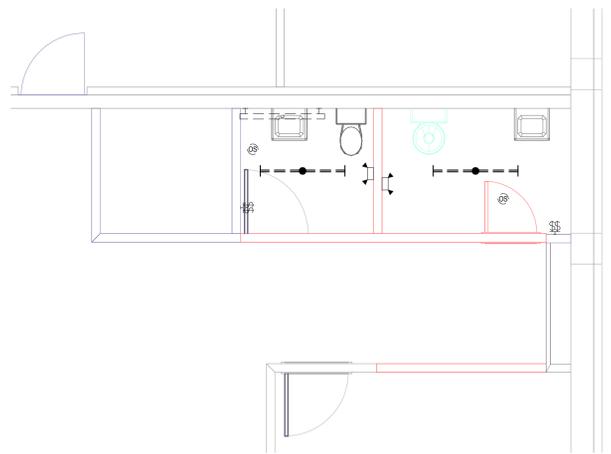
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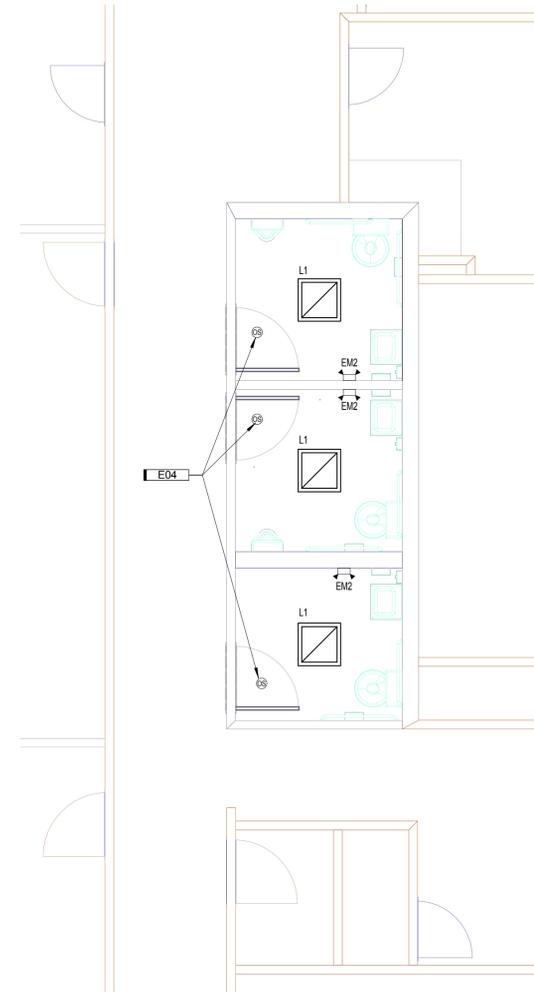
**LIGHTING DEMO NOTES**

1. REMOVE EXISTING LIGHTING FIXTURES AND ASSOCIATED SWITCHES UNLESS NOTED OTHERWISE. SAVE EXISTING CIRCUITS FOR REUSE.
2. TURN EXISTING OCCUPANCY SENSORS OVER TO OWNER.

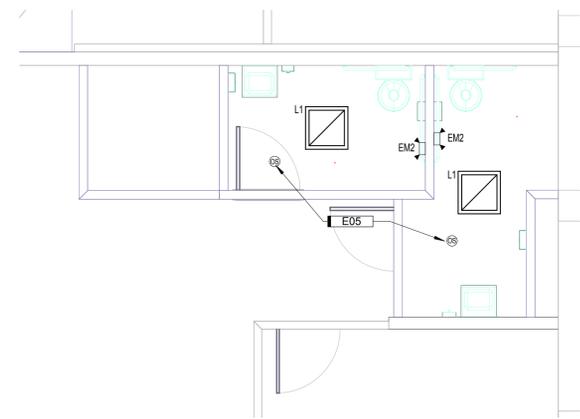
**B3** BLDG 5 - LIGHTING DEMOLITION  
1/4" = 1'-0"



**A4** BLDG 6 - LIGHTING DEMOLITION  
1/4" = 1'-0"



**E3** BLDG 5 - LIGHTING NEW  
1/4" = 1'-0"



**E4** BLDG 6 - LIGHTING NEW  
1/4" = 1'-0"

**GENERAL LIGHTING NOTES**

1. REUSE EXISTING LIGHTING CIRCUIT IN SPACE FOR NEW LIGHT FIXTURES.

**KEYNOTE LEGEND**

E04	PROVIDE NEW CEILING OCCUPANCY SENSOR WITH ISOLATED RELAY INTERFACE. OCCUPANCY SENSOR SHALL CONTROL LIGHTS IN SPACE ON AUTO-ON/AUTO-OFF BASIS. ISOLATED RELAY SHALL TIE INTO EXHAUST FAN EF-1.
E05	PROVIDE NEW CEILING OCCUPANCY SENSOR WITH ISOLATED RELAY INTERFACE. OCCUPANCY SENSOR SHALL CONTROL LIGHTS IN SPACE ON AUTO-ON/AUTO-OFF BASIS. ISOLATED RELAY SHALL TIE INTO EXHAUST FAN EF-2.

A

B

C

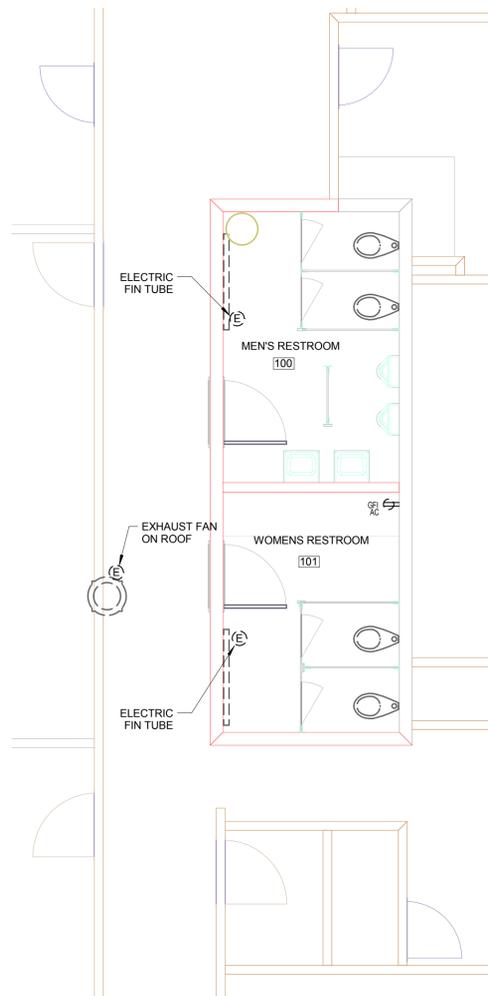
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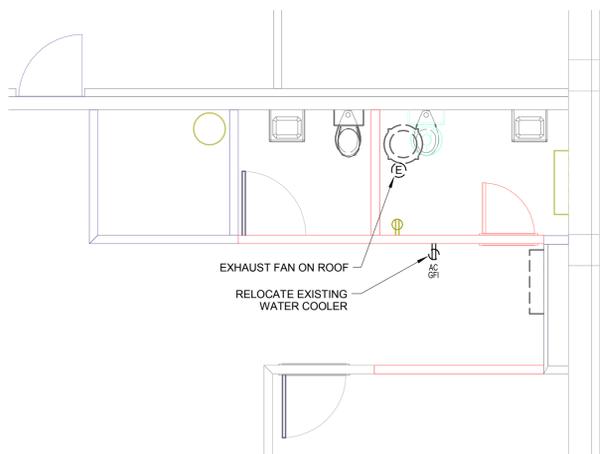
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**POWER DEMO NOTES**

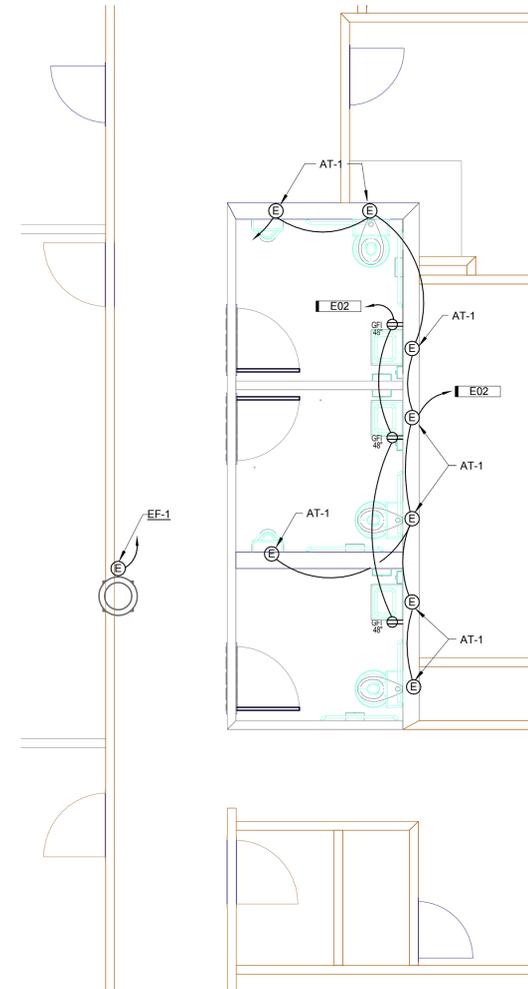
- 1. SAVE EXISTING EXHAUST FAN CIRCUITS.



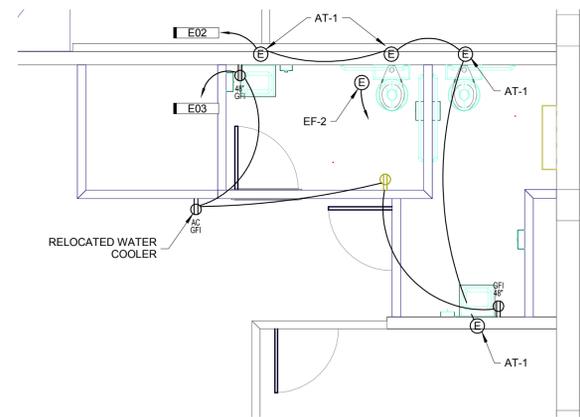
**A3 BLDG 5 - POWER DEMOLITION**  
1/4" = 1'-0"



**A4 BLDG 6 - POWER DEMOLITION**  
1/4" = 1'-0"



**D3 BLDG 5 - POWER NEW**  
1/4" = 1'-0"



**D4 BLDG 6 - POWER NEW**  
1/4" = 1'-0"

**GENERAL POWER NOTES**

- 1. REUSE EXISTING EXHAUST FAN CIRCUITS FOR NEW EXHAUST FAN CONNECTION.

**KEYNOTE LEGEND**

E02	CONNECT CIRCUIT TO NEARBY PANEL. USE 20A/1P SPARE BREAKER.
E03	CONNECT THREE (3) NEW RECEPTACLES TO EXISTING RECEPTACLE CIRCUIT IN AREA.

A

B

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E

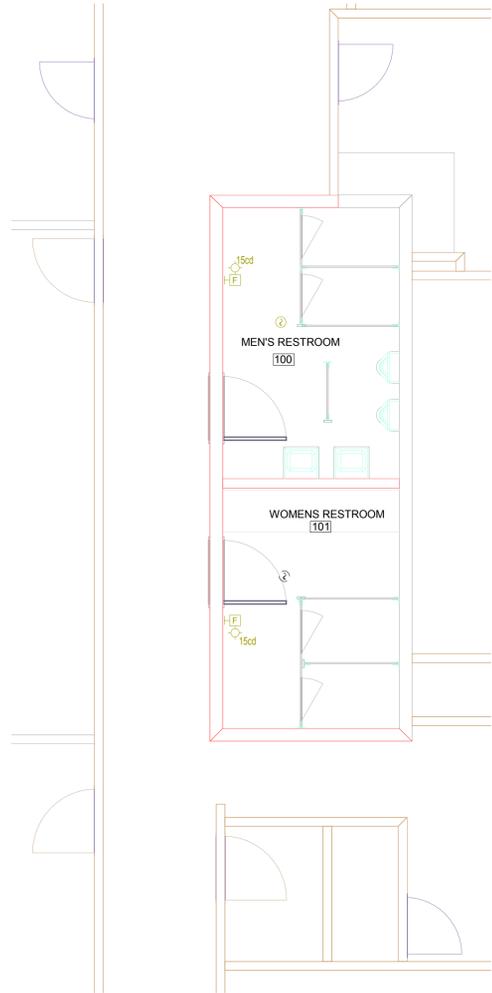
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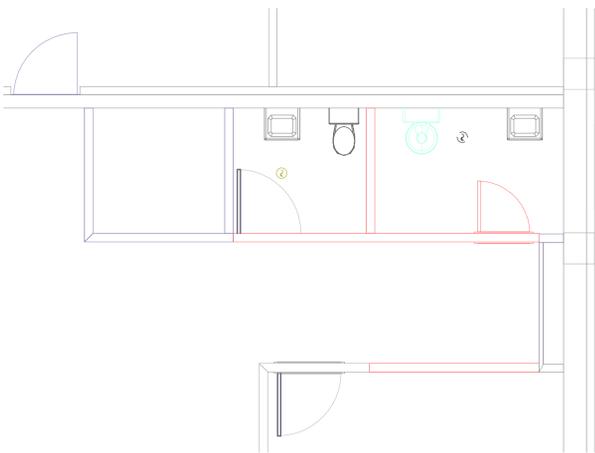
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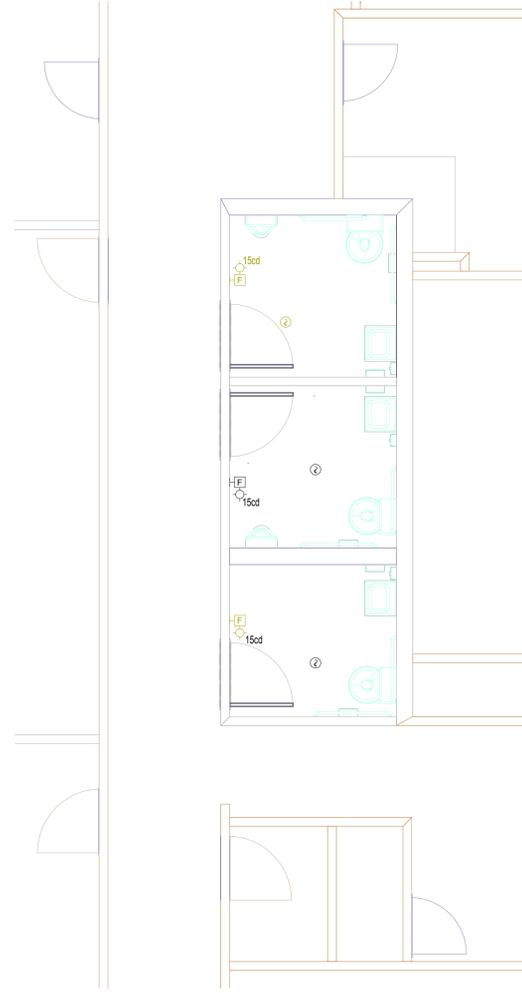
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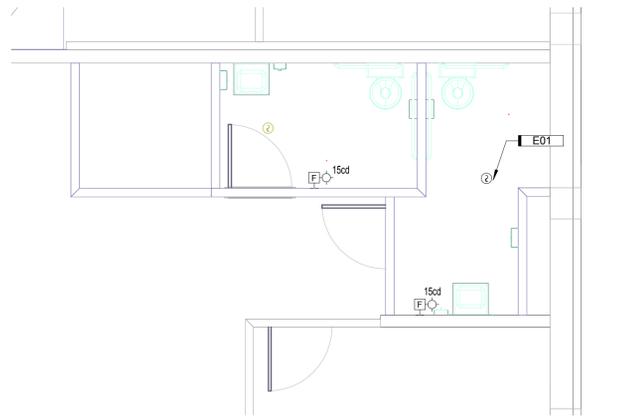
**A3** BLDG 5 - SYSTEMS DEMOLITION  
1/4" = 1'-0"



**A4** BLDG 6 - SYSTEMS DEMOLITION  
1/4" = 1'-0"



**D3** BLDG 5 - SYSTEMS NEW  
1/4" = 1'-0"



**D4** BLDG 6 - SYSTEMS NEW  
1/4" = 1'-0"

KEYNOTE LEGEND	
E01	RELOCATE EXISTING FIRE ALARM DEVICE TO THIS LOCATION.

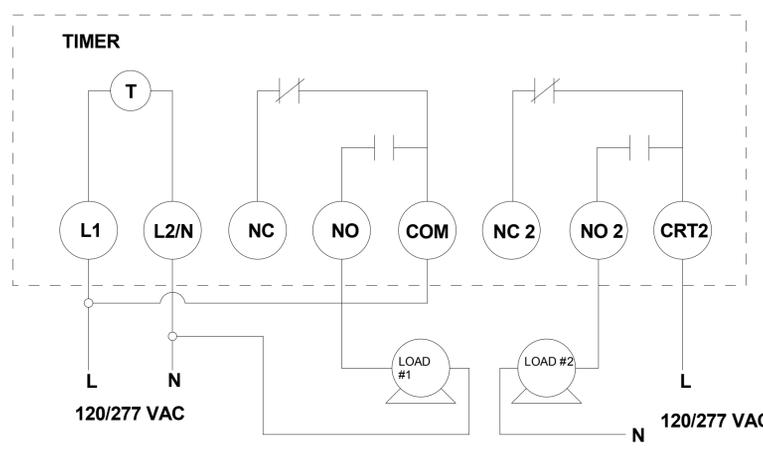
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APPROVED:	ES
ISSUED FOR:	CONSTRUCTION
DATE:	NOVEMBER 2015
PROJECT NO.:	4154090
FIELD BOOK:	

### ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION
		RECESSED LIGHT (TYPE DENOTED)
		RECESSED FLUORESCENT LIGHT (TYPE DENOTED)
96"		EMERGENCY BATTERY LIGHT (TYPE DENOTED)
48"		SINGLE POLE SW.
18"		DUPLEX RECEPT.
		CONDUIT CONCEALED IN WALL OR OVERHEAD
AS NOTED		ELECTRICAL CONNECTION (SEE SCHEDULE)
72"		CIRCUIT BREAKER PANEL
72"		POWER OR DISTRIBUTION PANEL
72"		SPECIAL CABINET (TYPE DENOTED)
		TRANSFORMER (TYPE DENOTED)
		MOTOR (SEE SCHEDULE)
		OCCUPANCY SENSOR - TYPE DENOTED
		KEYED NOTE (SEE SCHEDULE)
86"		FIRE ALARM STROBE (CANDELAS)
		HEAT DETECTOR (TYPE & TEMP DENOTED)

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

\* DISTANCE ABOVE TOP OF DOOR FRAME      \*\*\*\* DISTANCE BELOW CEILING  
 \*\* DISTANCE TO TOP OF EQUIPMENT OR DEVICE      \*\*\*\*\* DISTANCE TO BOTTOM OF DEVICE  
 \*\*\* DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT



1 **TIMER DIAGRAM**  
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE										
<b>BALLAST TYPES:</b>										
PS-NBF: PROGRAMMED START NORMAL BALLAST FACTOR (.88 BF)      PS-HBF: PROGRAMMED START HIGH BALLAST FACTOR (1.0 BF)      DHD-NBF: DIMMING BALLAST, 0-10 VDC										
<b>GENERAL NOTES:</b>										
A. WHERE "APPROVED EQUAL" IS LISTED IN THE MANUFACTURER COLUMN, FIXTURES MUST BE SUBMITTED AS A SUBSTITUTION FOR APPROVAL PRIOR TO BID SUBMISSION.										
B. LUMENS LISTED FOR LED FIXTURES ARE DELIVERED LUMENS. PROVIDE FIXTURE WITHIN +/- 5% OF LISTED LUMENS.										
<b>SCHEDULE NOTES:</b>										
1. LIGHTING NOTES.										
TYPE	Description	LENS-LOUVER	MOUNTING	LAMP	BALLAST	VOLT	WATT	BASIS OF DESIGN	APPROVED EQUIVALENT	NOTE
EM2	ARCHITECTURAL EMERGENCY LIGHT, FLAME-RATED, UV STABLE THERMOPLASTIC HOUSING, WHITE FINISH, INTEGRAL ADJUSTABLE LED LAMP HEADS	ACRYLIC	WALL	LED	---	120 V	5 W	DUAL LITE EV SERIES		
L1	2X2 VOLUMETRIC LED TROFFER, STEEL HOUSING	ACRYLIC PRISMATIC DIFFUSER	RECESSED	LED, 2000 LUMENS, 4000K	LED BALLAST	120 V	20 W	LITHONIA VTLLED	-	

MECHANICAL EQUIPMENT SCHEDULE												
PLAN MARK	DESCRIPTION	HP/KW	VOLT	PH	FLA	CIB	CONDUIT & WIRE SIZE		DISC.	STARTER	VFD	NOTES
AT-1	AUTO-TRANSFORMER FLUSH VALVE		120 V	1		20	(2) #12 & (1) #12 GND IN 3/4" C.			PWE		
EF-1	EXHAUST FAN BLDG 5	1/6 HP	120 V	1	4.4	20	(2) #12 & (1) #12 GND IN 3/4" C.			SFSW		1,2
EF-2	EXHAUST FAN BLDG 6	1/6 HP	120 V	1	4.4	20	(2) #12 & (1) #12 GND IN 3/4" C.			SFSW		1,2
<b>STARTER TYPES:</b>												
FVNR	FULL VOLTAGE NON-REVERSING	FS	FUSED SWITCH	SFSW	SINGLE POLE SWITCH	<b>ABBREVIATIONS:</b>						
VFD	VARIABLE FREQUENCY DRIVE	NFS	NON-FUSED SWITCH	REC	RECEPTACLE	EC	ELECTRICAL CONTRACTOR					
RVS	REDUCED VOLTAGE	CB	CIRCUIT BREAKER	CMS	COMBINATION MOTOR STARTER/DISCONNECT	GC	GENERAL CONTRACTOR					
PWE	PROVIDED WITH EQUIPMENT	PWE	PROVIDED WITH EQUIPMENT			OWN	OWNER					
						WP	WEATHERPROOF					
<b>NOTES:</b>												
1. CONNECT EXHAUST FAN TO OCCUPANCY SENSORS IN MENS AND WOMENS RESTROOM. FAN SHALL GO TO HIGH SPEED SETTING ONCE EITHER OCCUPANCY SENSOR GOES INTO OCCUPIED MODE.												
2. CONNECT BOTH FANS TO A 7-DAY PROGRAMMABLE TIMER, SIMILAR TO INTERMATIC GM40AVE. SEE DETAIL FOR MORE INFORMATION.												

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DRAWN: SKL	APPROVED: ES	ISSUED FOR: CONSTRUCTION	DATE: NOVEMBER 2015	PROJECT NO: 4154090	FIELD BOOK:
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