

Repair Shop Restroom Remodel

800 Lincoln Way
Ames, Iowa 50010

Project: BG-2A11(008)--80-85

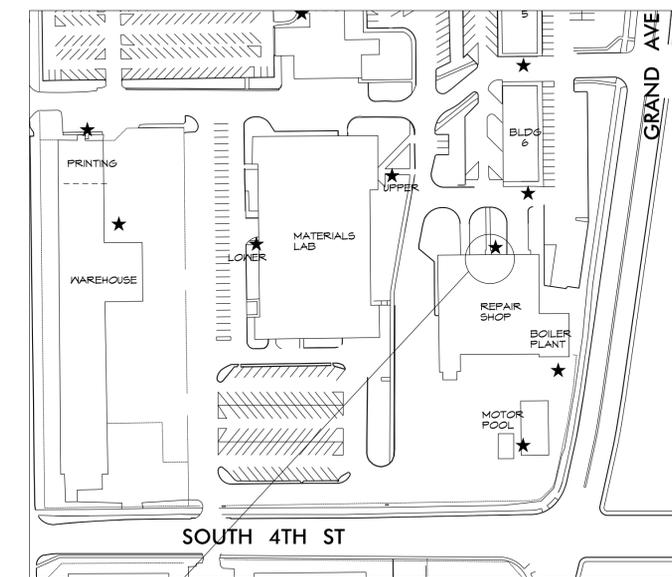
INDEX OF DRAWINGS:

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02	A-1	DEMOLITION PLAN
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OFFICE OF FACILITIES SUPPORT
800 LINCOLN WAY, AMES, IOWA 50010

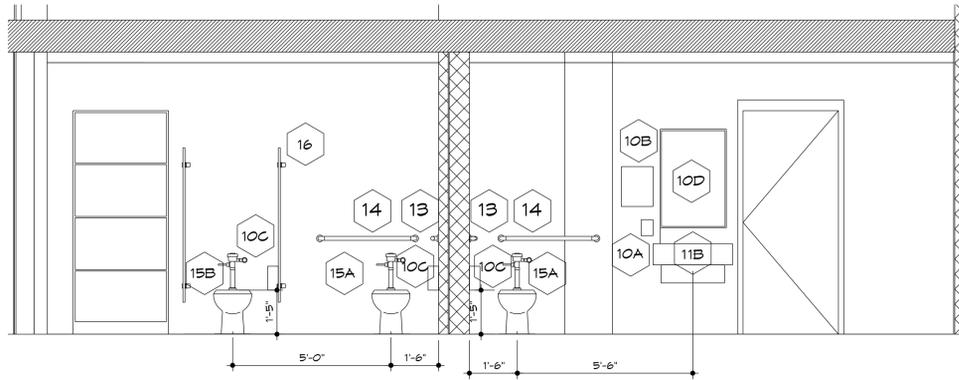


PROJECT LOCATION

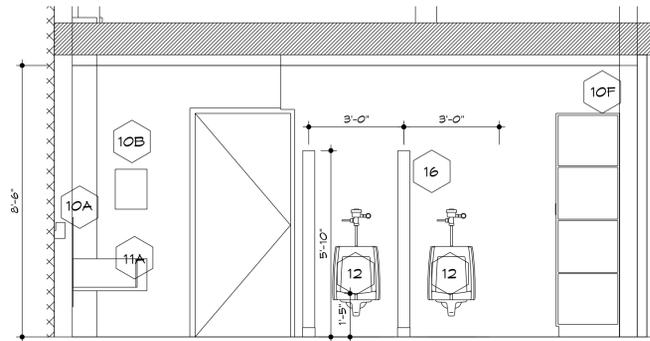
SCALE: 1" = 1 MILE



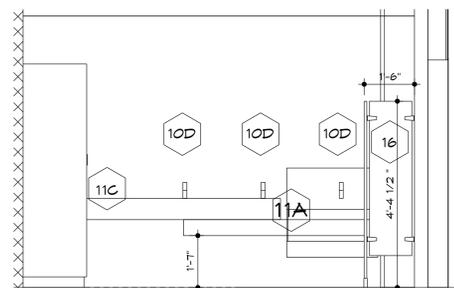
I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered architect under the laws of the state of Iowa.	
Printed or typed name _____	_____
Signature _____	Date _____
Registration expires _____	Date issued _____
Pages or sheets covered by this seal: _____	



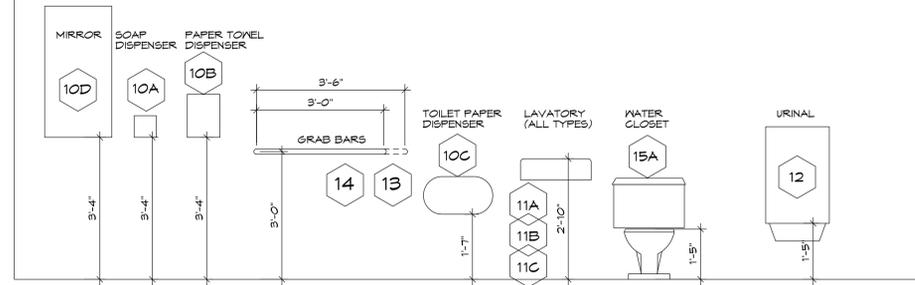
4 WEST ELEVATION
A-3 SCALE: 3/8"=1'-0"



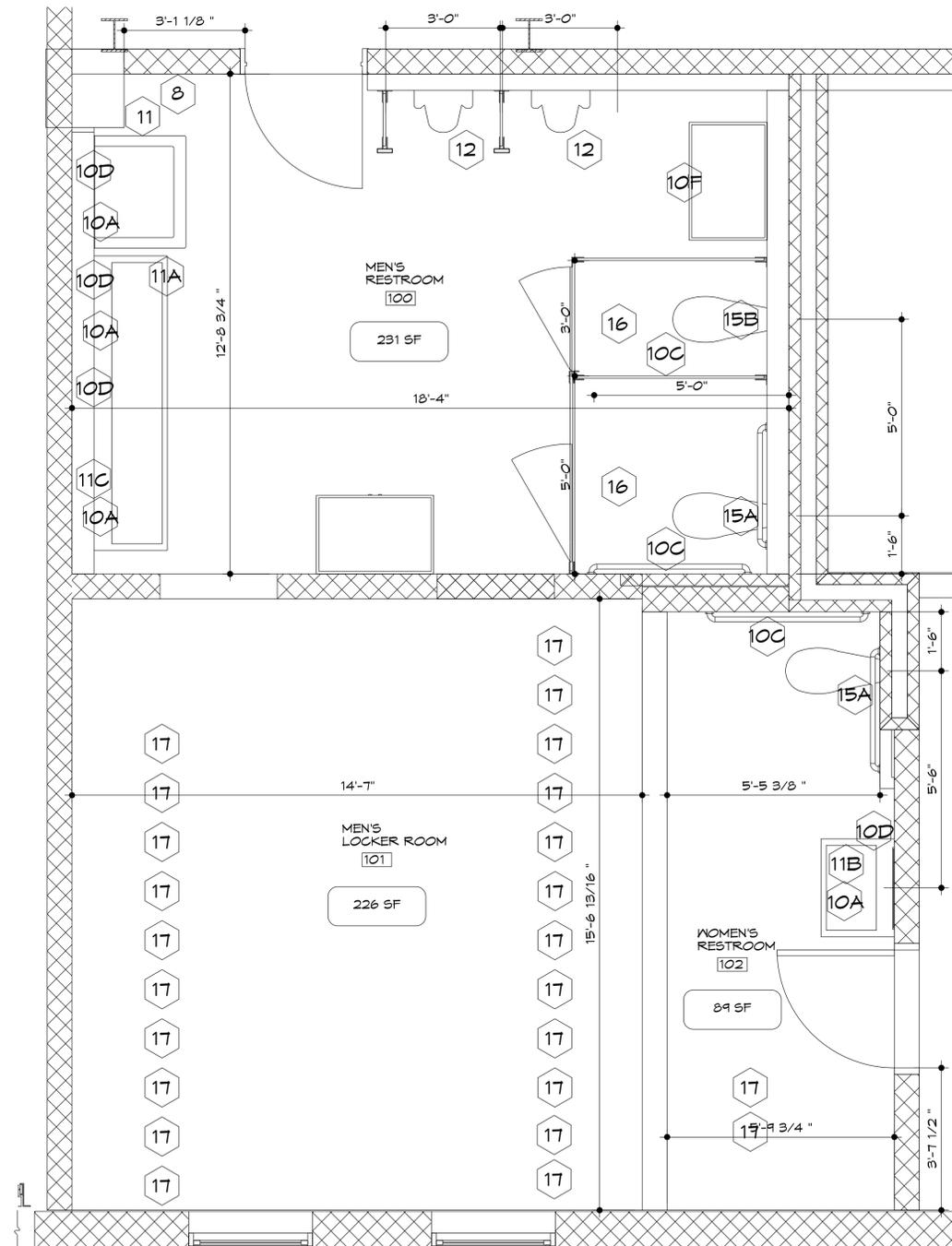
4 EAST ELEVATION
A-3 SCALE: 3/8"=1'-0"



4 NORTH ELEVATION
A-3 SCALE: 3/8"=1'-0"



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



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

KEY:

SF ROOM AREA

BUILDING CONSTRUCTION TYPE I-A
OCCUPANT TYPE
GROUP F-1
GROUP S-1

CONSTRUCTION TYPE
IA

ALLOWABLE AREA AND HEIGHTS
UL/UL

ACTUAL AREA AND HEIGHTS
50425 SF/ 2 STORIES

OCCUPANT LOAD
F-1 5F/200
S-1 25F/200 = 254.6 (255 ROUNDED)

255/2 = 127.5 (128 ROUNDED)
11/2 = 5.5 (6 ROUNDED)
134 PER RESTROOM

2ND FLOOR
OCCUPANCY TYPE
S-1
SF/300
3234/300 = 10.78 (11 ROUNDED)

RESTROOM REQUIREMENTS
WATER CLOSETS REQUIRED
MALE AND FEMALE 1/100
MALE PROVIDED 2 WATER CLOSETS 2 URINALS
FEMALE PROVIDED 1 WATER CLOSET

LAVATORIES REQUIRED
MALE AND FEMALE 1/100

MALE PROVIDED 4
FEMALE PROVIDED 1

FLOOR PLAN NOTES:

- 10A SOAP DISPENSER (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)
- 10B PAPER TOWEL DISPENSER (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)
- 10C TOILET PAPER DISPENSER (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)
- 10D 24 X 36 MIRROR
- 10F TALL CABINET (SEE SHEET A-3 FOR DETAILS)
- 11A 3 STATION VERGE LAVATORY SYSTEM
- 11B SINGLE STATION VERGE LAVATORY SYSTEM
- 11C 22 X 19 STAINLESS STEEL UTILITY SINK
- 12 ADA URINAL
- 13 GRAB BAR 42" 3'-0" AFF
- 14 GRAB BAR 36" 3'-0" AFF
- 15A ADA WATER CLOSET
- 15B STANDARD WATER CLOSET
- 16 SOLID PLASTIC FLOOR MOUNTED PARTITIONS
- 17 15 X 18 X 18 1/2" LOCKERS (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)

DISTRICT: 01

COUNTY: STORY

AMES, IOWA

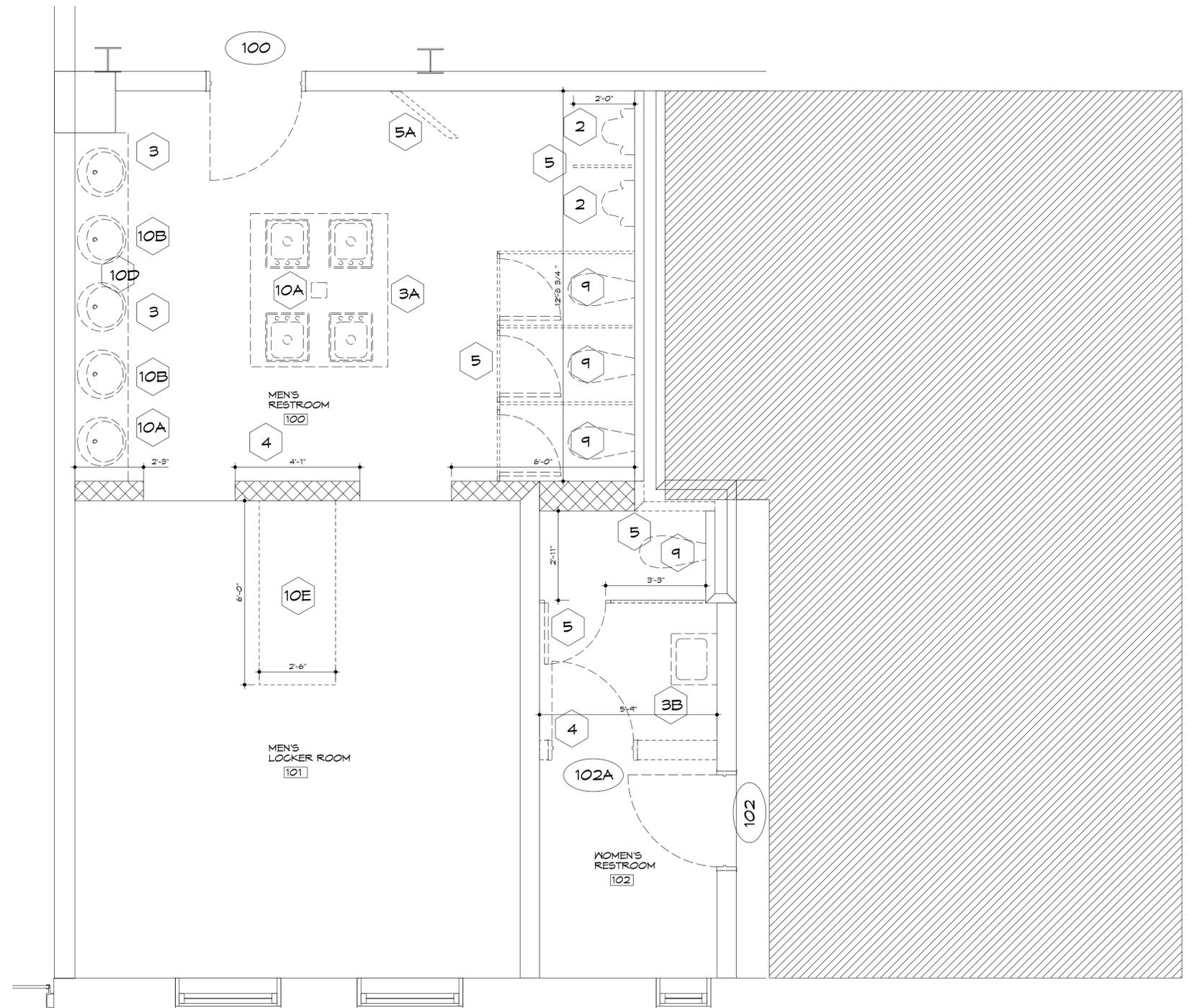
REPAIR SHOP RESTROOM REMODEL
CODE PLAN

IOWADOT
SMARTER SIMPLER CUSTOMER DRIVEN
OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY
AMES, IOWA 50010 (515) 239-1299

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

00 SHEET OF 08

A-0.1




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

NOTES:

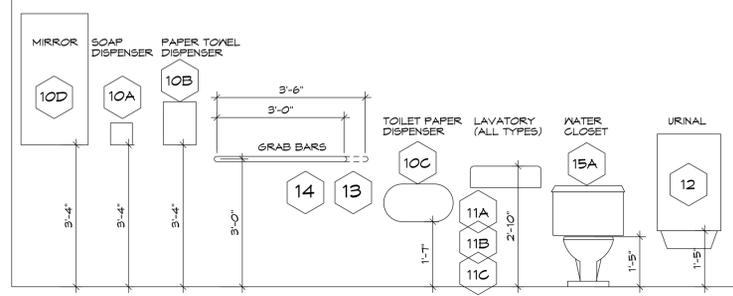
1. PATCH CMU WALLS WHERE NEEDED
2. LIGHTS TO BE REMOVED
3. CEILING GRID AND TILE TO BE REMOVED

KEY:

 NO WORK THIS AREA
 DEMOLITION

- DEMOLITION NOTES:**
-  2 URINALS TO BE REMOVED
 -  3 LAVATORIES AND COUNTER TOP TO BE REMOVED
 -  3A SINKS, BASE CABINET, AND COUNTER TOP TO BE REMOVED
 -  3B WALL HUNG LAVATORY TO BE REMOVED
 -  4 WOOD DOOR AND CMU WALL TO BE REMOVED
 -  5 TOILET PARTITIONS TO BE REMOVED
 -  5A 5'-0" TALL PARTITION WALL TO BE REMOVED
 -  9 TOILETS TO BE REMOVED
 -  10A SOAP DISPENSER TO BE SALVAGED
 -  10B TOILET PAPER DISPENSER TO BE SALVAGED
 -  10C PAPER TOWEL DISPENSER TO BE SALVAGED
 -  10D MIRROR TO BE REMOVED
 -  10E 6'-0" X 4'-0" WOOD CABINET TO BE REMOVED

DGN_LOC



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

ELEVATION KEY:

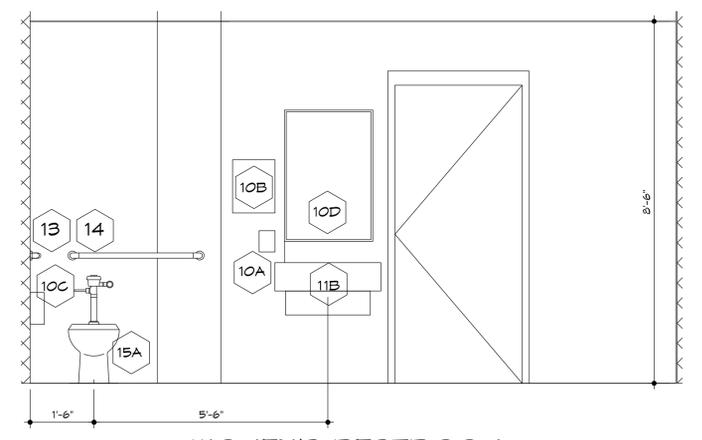
- 10A SOAP DISPENSER (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)
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- 15A ADA WATER CLOSET
- 15B STANDARD WATER CLOSET
- 16 SOLID PLASTIC FLOOR MOUNTED PARTITIONS
- 17 15 X 18 X 78 1/2" LOCKERS (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)

CEILING PLAN KEY:

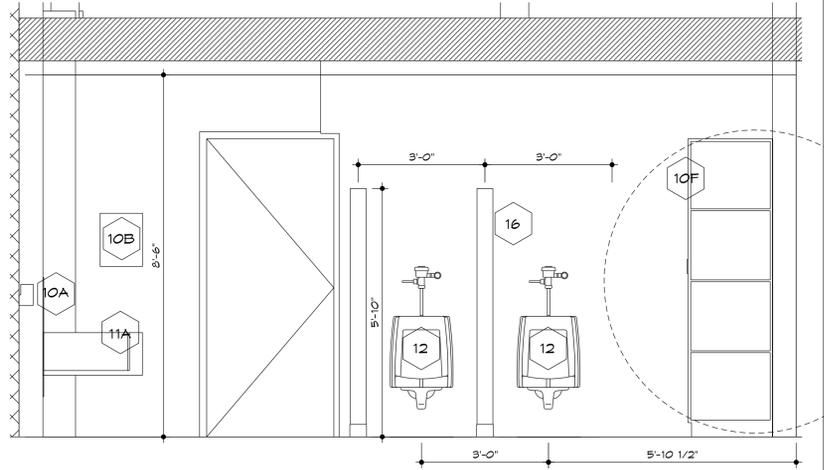
- 2 X 2 USG NO 131 CEILING TILE
- 2 X 4 VTLCD
- 1 X 4 SUSPENDED LED
- SUPPLY DIFFUSER
- RETURN DIFFUSER

NOTES:

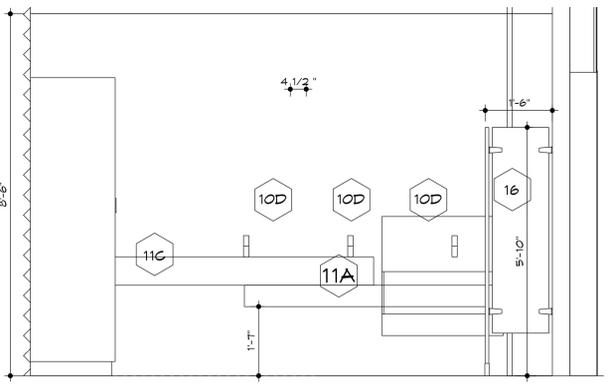
1. LOCKER ROOM CEILING TO BE PAINTED WHITE AND HAVE SUSPENDED FIXTURES
2. WOMEN'S AND MEN'S RESTROOMS TO HAVE ACOUSTICAL CEILING AT 8'-6" AFF APPROX
3. SEE MOUNTING HEIGHTS THIS SHEET FOR SOAP, PAPER TOWEL, AND TOILET PAPER DISPENSERS, OWNER PROVIDED CONTRACTOR INSTALLED



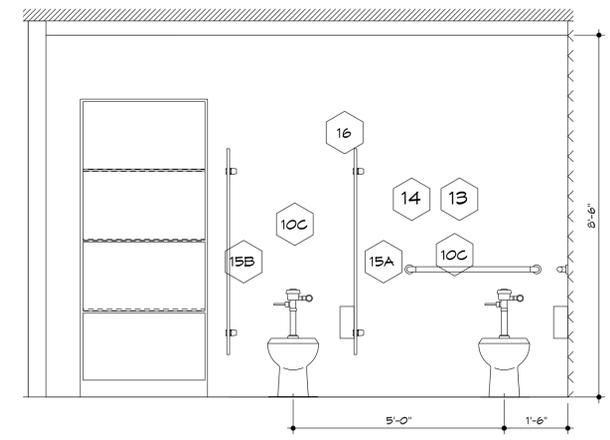
8 WOMEN'S RESTROOM WEST ELEVATION
SCALE: 1/2"=1'-0"



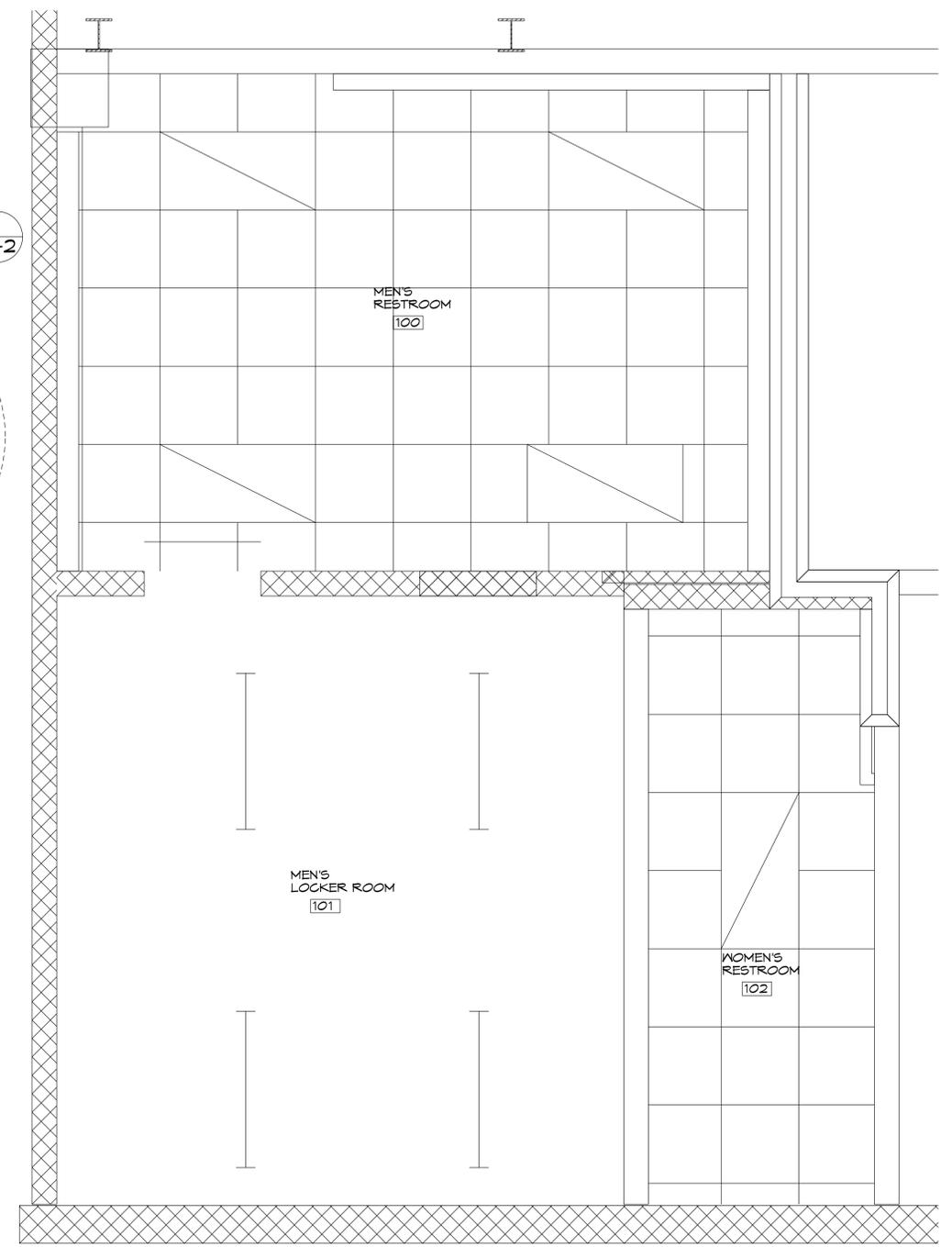
5 MEN'S RESTROOM NORTH ELEVATION
SCALE: 1/2"=1'-0"



7 MEN'S RESTROOM EAST ELEVATION
SCALE: 1/2"=1'-0"



4 MEN'S RESTROOM WEST ELEVATION
SCALE: 1/2"=1'-0"



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

DGN_LOC

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLR	BASE	WALLS				CLG	CLG HGT	REMARKS
				N	E	S	W			
100	MEN'S RESTROOM	FL1	B1	X1	X2	X1	X1	C1	8'-6"	PATCH ANY DAMAGE TO WALLS FROM DEMOLITION
101	LOCKER ROOM	FL1	B1	X1	X1	X1	X1	C2	8'-6"	PATCH ANY DAMAGE TO WALLS FROM DEMOLITION
102	WOMEN'S RESTROOM	FL1	B1	X1	X1	X1	X1	C1	8'-6"	PATCH ANY DAMAGE TO WALLS FROM DEMOLITION

DOOR, FRAME, & WINDOW SCHEDULE

NO.	SIZE	TYPE	DOOR			FRAME						HARDWARE GROUP			
			MATL	THK	GLZ	FINISH	RATING	TYPE	MATL	WIDTH	HEIGHT		FINISH	GLZ	RATING
100	3'-0" x 7'-0"	D2	HM	1-3/4"	---	PT-2	90 M	F1	HM	3'-4"	7'-2"	PT-2	---	90 M	HA-1
102	3'-0" x 7'-0"	D1	HM	1-3/4"	---	PT-2	90 M	F1	HM	3'-4"	7'-2"	PT-2	---	90 M	HA-5

WALLS:
 X1 CMU PAINTED (PATCHED WHERE NEEDED)
 X2 GYP BD PAINTED

CEILING:
 C1 ACOUSTICAL GRID AND TILE
 C2 EXPOSED STRUCTURE PAINTED WHITE

FLOORS:
 FL1 POLISHED CONCRETE FLOOR

BASE:
 B1 6" VINYL
 ROPPE #198 IVORY

HA-1 PUSH/PULL, KICKPLATE, HINGES, SILENCERS
HA-5 LOCKSET (PRIVACY), HINGES, SILENCERS, KICKPLATE
ND - WOOD
HM - METAL
PT - PAINT

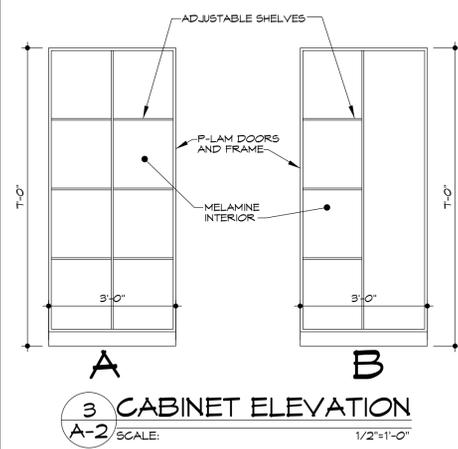
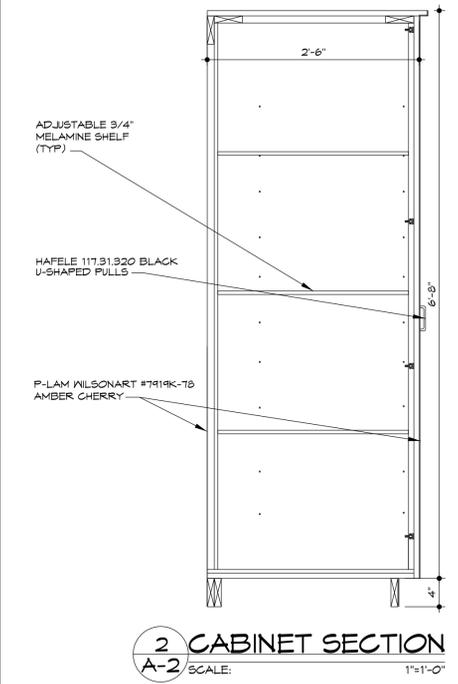
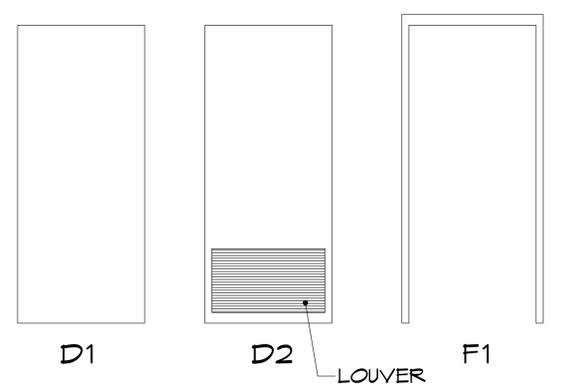
METAL DOOR JAMBS AND DOORS:
 PT-2 SHERWIN WILLIAMS 7513 SANDERLING

GYPSUM WALLS:
 PT-1 SHERWIN WILLIAMS 7512 PAVILION BEIGE

CMU PAINTED:
 PT-1 SHERWIN WILLIAMS 7512 PAVILION BEIGE

EXPOSED STRUCTURE DECK:
 PT-3 SHERWIN WILLIAMS 7001 CEILING BRIGHT WHITE

SOLID PLASTIC FLOOR MOUNTED TOILET PARTITIONS OVERHEAD BRACED:
 GENERAL PARTITIONS #262 LATTE



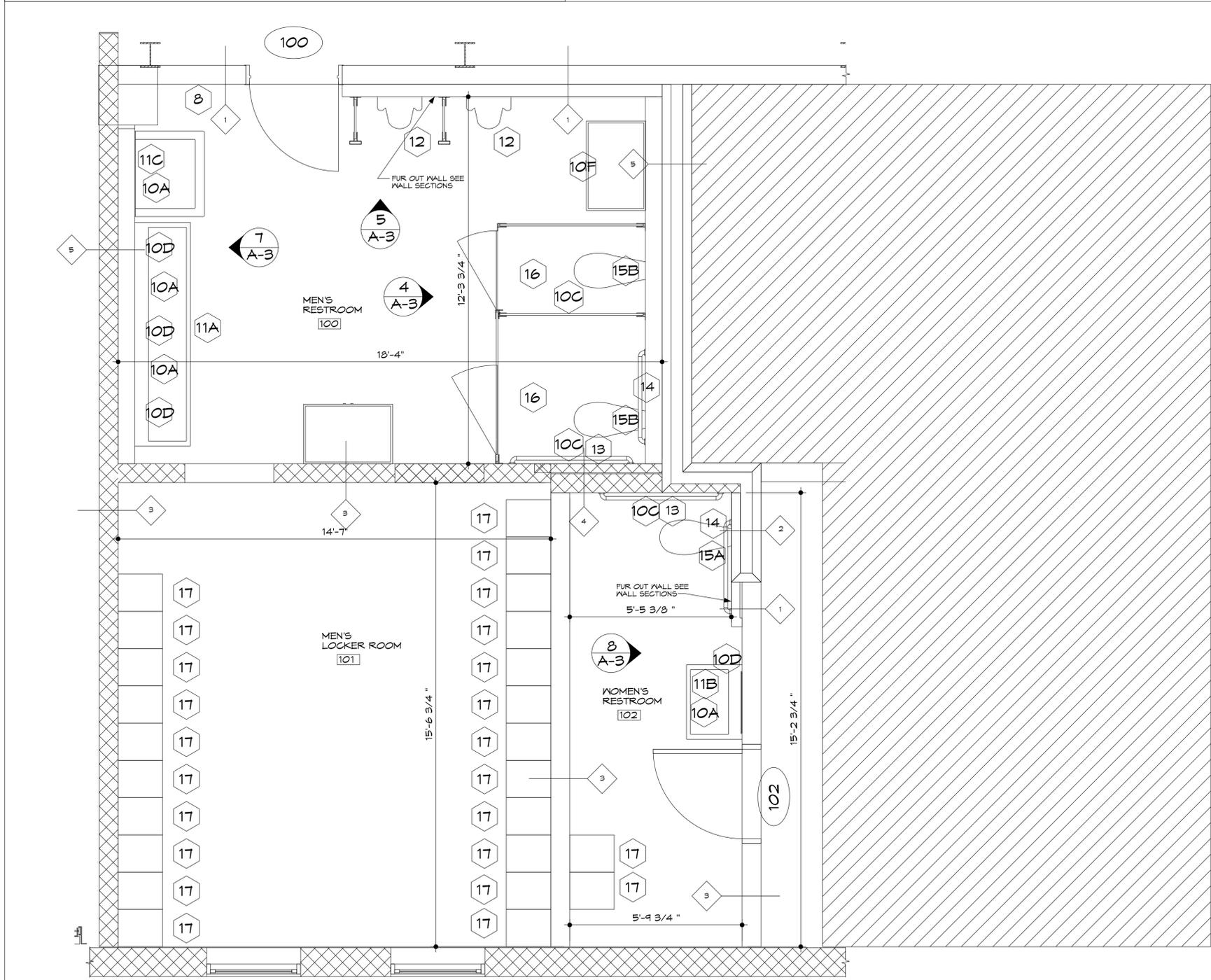
- NOTES:**
- REPAIR CONCRETE FLOOR DAMAGE
 - REPAIR WALLS WHERE NEEDED
 - REPLACE ALL TOILETS AND URINALS WITH NEW ADA COMPLIANT FIXTURES
 - FUR OUT WALLS WHERE NOTED, ADD BLOCKING WHERE NEEDED FOR MOUNTING ACCESSORIES
 - SEE SHEET A-3 FOR MOUNTING HEIGHTS

KEY:

NO WORK THIS AREA

FLOOR PLAN NOTES:

- 10A SOAP DISPENSER (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)
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ENLARGED FLOOR PLAN
 1 A-2 SCALE: 1/2"=1'-0"

DISTRICT: 01
 COUNTY: STORY
 PROJECT NUMBER: BG-2A11(008)-80-85
 AMES, IOWA
 REPAIR SHOP RESTROOM REMODEL
 FLOOR PLAN & SCHEDULES
 IOWADOT
 SMARTER SIMPLER CUSTOMER DRIVEN
 OFFICE OF SUPPORT SERVICES
 800 LINCOLN WAY
 AMES, IOWA 50010 (515) 239-1299
 DATE: MAY 2015
 DRAWN BY: A SMELSER
 APPROVED: J BURNES
 REVISIONS:
 03 SHEET OF 08
A-2

DGN_LOC

NOTES:

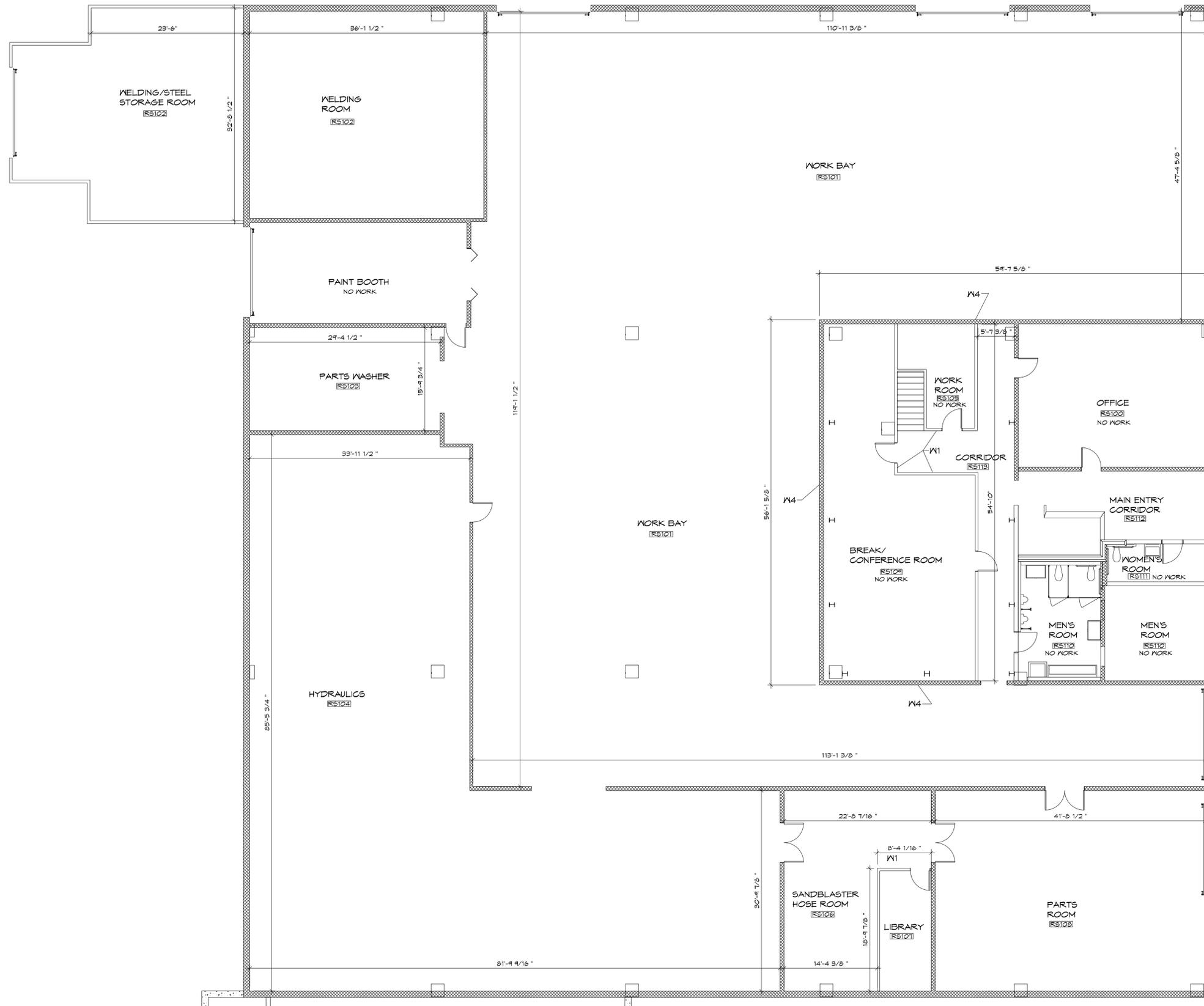
1. WALLS IN NOTED AREAS TO BE PREPPED AND PAINTED SEE KEY THIS SHEET FOR COLORS
2. WALL HEIGHTS ARE APPROXIMATELY 14'-0" FINISHED FLOOR TO DECK
3. ANY PERMANENT SURFACE MOUNTED MATERIALS TO BE PAINTED
4. OWNER WILL REMOVE EQUIPMENT, OBSTRUCTIONS, AND OTHER MATERIALS NOT TO BE PAINTED PRIOR TO WORK. COORDINATE WITH OWNER
5. PAINT ALL COLUMNS IN ROOMS BEING PAINTED

PAINT SCHEDULE

NO.	ROOM NAME	WALLS				CLG HGT
		N	E	S	W	
RS100	REPAIR SHOP OFFICE (NO WORK)	---	---	---	---	---
RS101	WORK BAY	W4	W4	W4	W4	14'-0"
RS102	WELDING, STEEL STORAGE	W2	W2	W2	W2	14'-0"
RS103	PARTS WASHER, PAINT BOOTH	W2	W2	W2	W2	14'-0"
RS104	HYDRAULICS	W2	W2	W2	W2	14'-0"
RS105	WORK ROOM (NO WORK)	---	---	---	---	---
RS106	SANDBLASTER HOSE ROOM	W3	W3	W3	W3	14'-0"
RS107	LIBRARY (NO WORK)	---	---	---	---	---
RS108	PARTS ROOM	W2	W2	W2	W2	14'-0"
RS109	BREAK/CONFERENCE ROOM (NO WORK)	---	---	---	---	---
RS110	MEN'S ROOM (NO WORK)	---	---	---	---	---
RS111	WOMEN'S ROOM (NO WORK)	---	---	---	---	---
RS112	MAIN ENTRY CORRIDOR (NO WORK)	---	---	---	---	---
RS113	CORRIDOR	W2	W2	W1	W2	14'-0"

FINISH KEY:

- WALLS:
W1 FINISHED DRYWALL
W2 CMU
W3 SOUND INSULATION
W4 SOUND INSULATION @ 12'-0" AFF
- PAINT:
PT-1 SHERWIN WILLIAMS
SW 7014 (WALLS BELOW T-0')
PT-2 SHERWIN WILLIAMS
SW 7015 (DOORS AND FRAMES AND WALLS ABOVE T-0')



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

DISTRICT: 01
COUNTY: STORY
PROJECT NUMBER: BG-2A11(008)-80-85
AMES, IOWA
REPAIR SHOP RESTROOM REMODEL
PAINT PLAN
IOWADOT
SMARTER SIMPLER CUSTOMER DRIVEN
OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY
AMES, IOWA 50010 (515) 239-1299
DATE: MAY 2015
DRAWN BY: A SMELSER
APPROVED: J BURNES
REVISIONS:
05 SHEET OF 08
A-4



SANDBLASTER
HOSE ROOM RS106
NORTH WALL



CORRIDOR RS113



HYDRAULICS RS104
SOUTH WALL



PARTS WASHER RS103



HYDRAULICS RS104
NORTH WALL



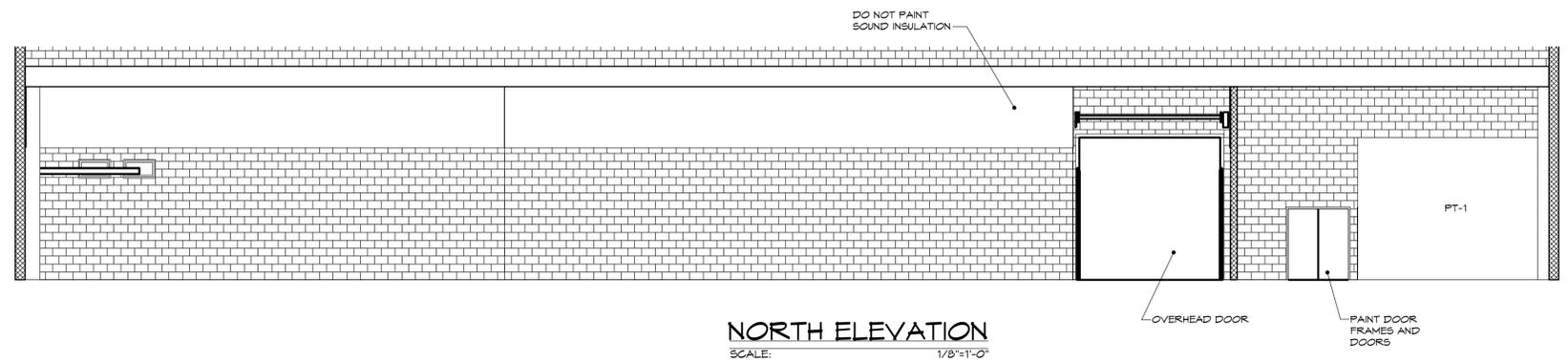
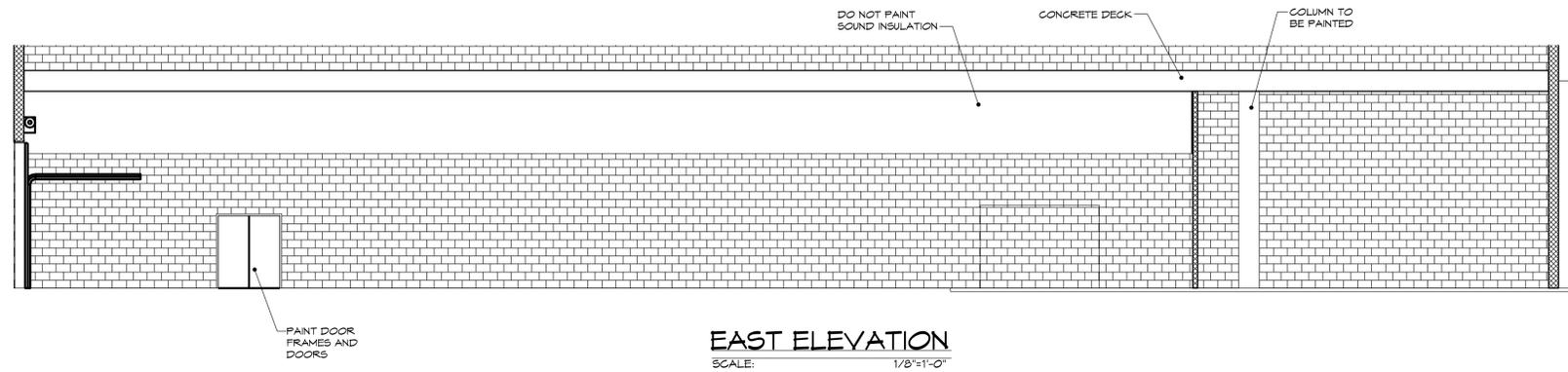
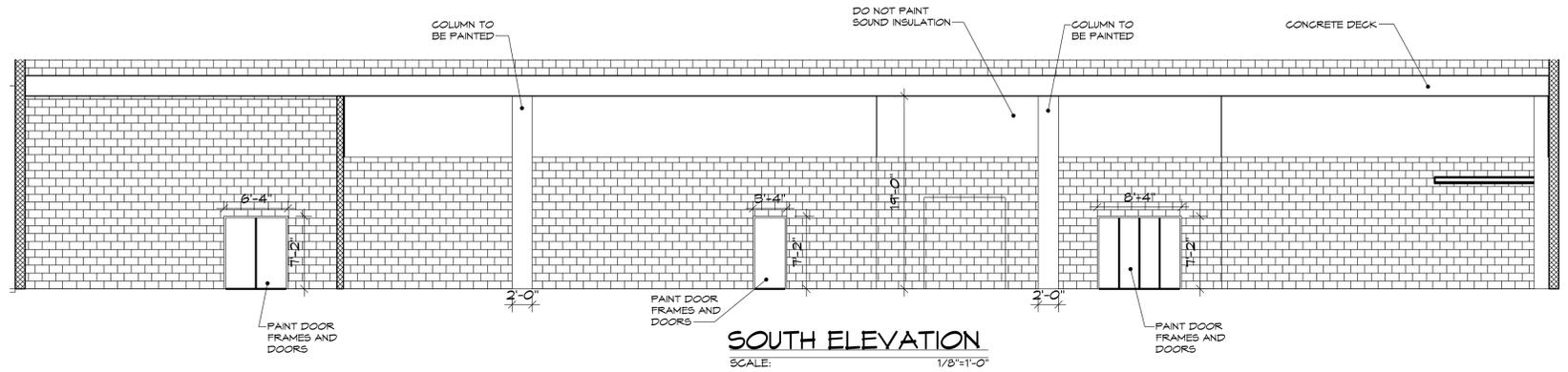
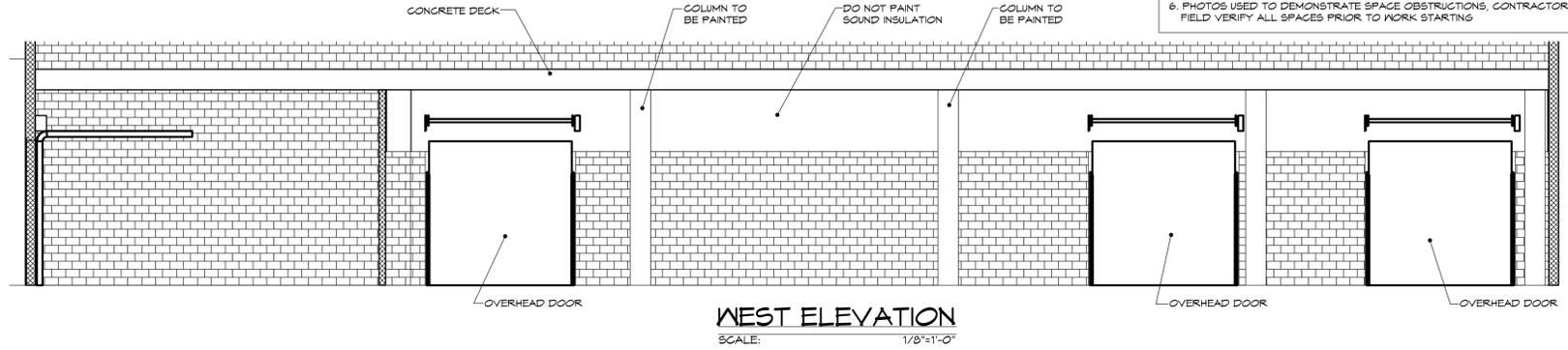
HYDRAULICS RS104
SOUTH EAST CORNER



WORK BAY RS101



WORK BAY RS101



NOTES:

1. WALLS IN NOTED AREAS TO BE PREPPED AND PAINTED
2. WALL HEIGHTS ARE APPROXIMATELY 11'-0" FINISHED FLOOR TO DECK
3. ANY PERMANENT SURFACE MOUNTED MATERIALS TO BE PAINTED
4. OWNER WILL REMOVE EQUIPMENT, OBSTRUCTIONS, AND OTHER MATERIALS NOT TO BE PAINTED PRIOR TO WORK. COORDINATE WITH OWNER
5. PAINT ALL COLUMNS IN ROOMS BEING PAINTED
6. PHOTOS USED TO DEMONSTRATE SPACE OBSTRUCTIONS, CONTRACTOR REQUIRED TO FIELD VERIFY ALL SPACES PRIOR TO WORK STARTING

IOWA DOT REPAIR SHOP RESTROOM REMODEL

IOWA DOT

800 LINCOLN WAY AMES, IA 50010

SHEET INDEX

GENERAL	
ME00	COVER SHEET
MECHANICAL	
MP100	MECHANICAL AND PLUMBING REPAIR SHOP RESTROOMS
MP200	MECHANICAL AND PLUMBING SCHEDULES AND DETAILS
ELECTRICAL	
E101	FIRST FLOOR LIGHTING PLAN

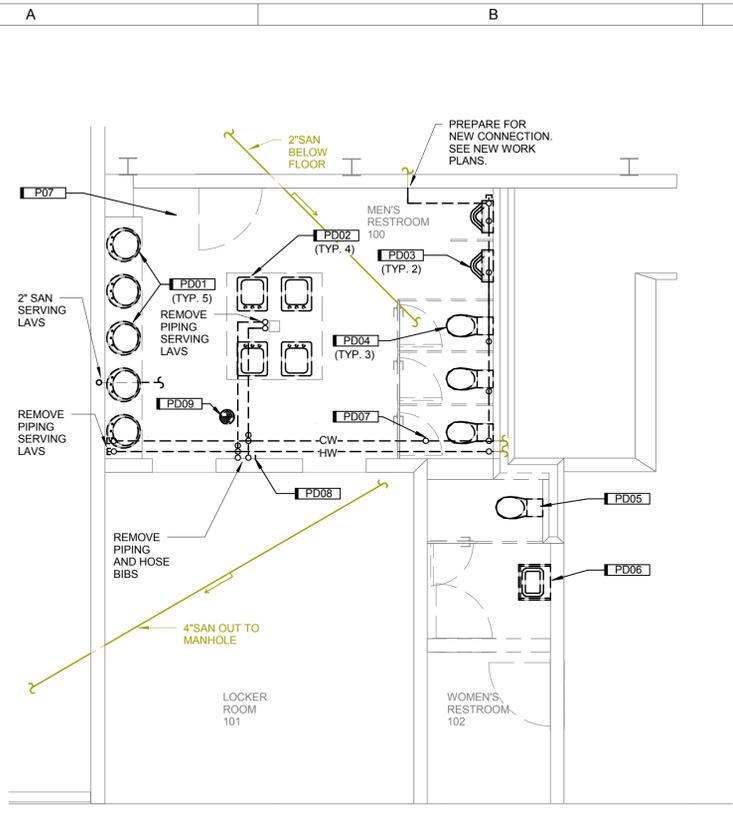
CERTIFICATIONS

MECHANICAL ENGINEER

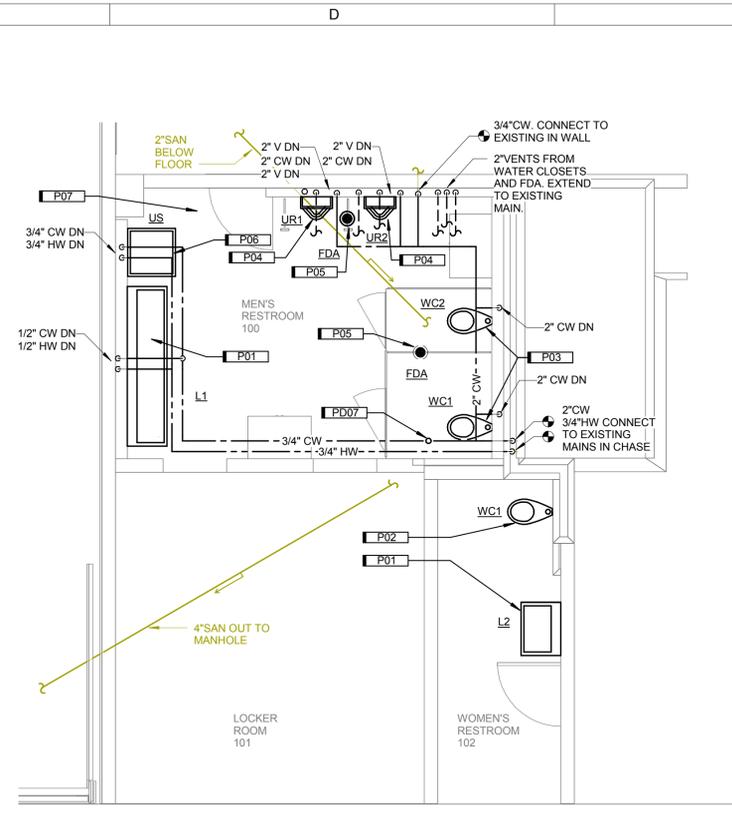
	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	Signature _____ Date _____
	Printed or typed name Brian A. Steffens
	License Number 22014
	My license renewal date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

ELECTRICAL ENGINEER

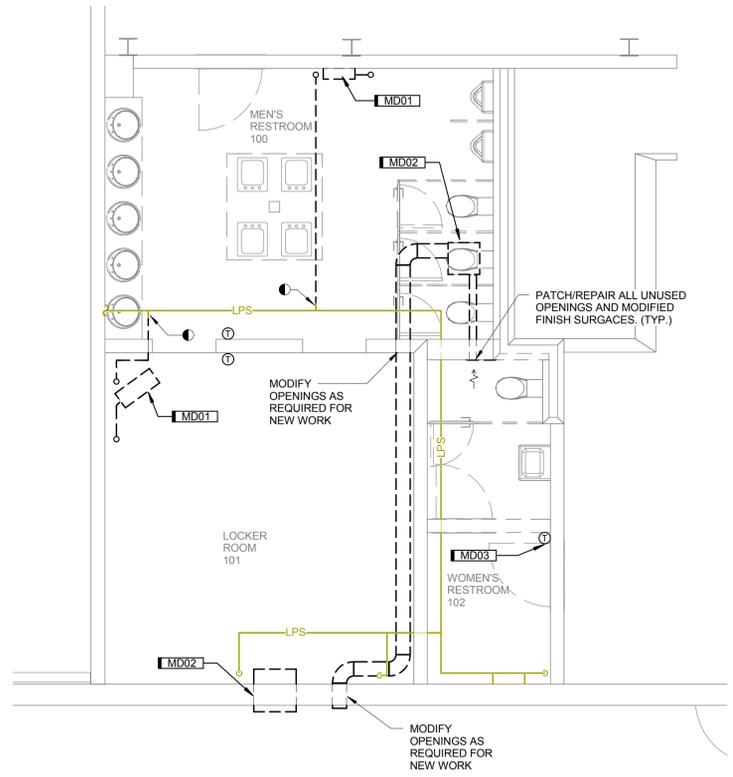
	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	Signature _____ Date _____
	Printed or typed name Edin Smallovic
	License Number 21953
	My license renewal date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



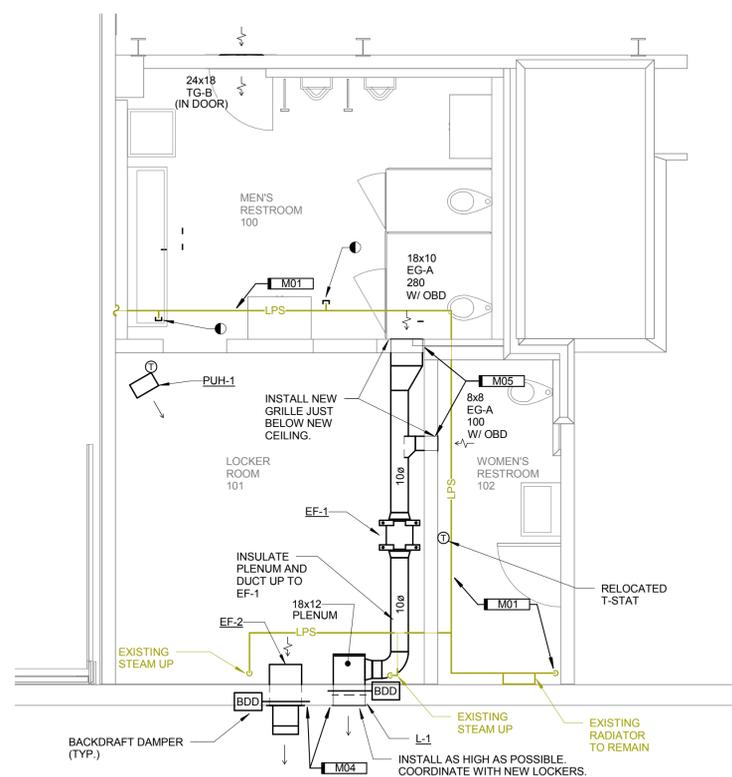
A3 PLUMBING DEMO
1/4" = 1'-0"



C3 PLUMBING NEW
1/4" = 1'-0"



A4 HVAC DEMO
1/4" = 1'-0"



C4 HVAC NEW
1/4" = 1'-0"

GENERAL DEMO NOTES

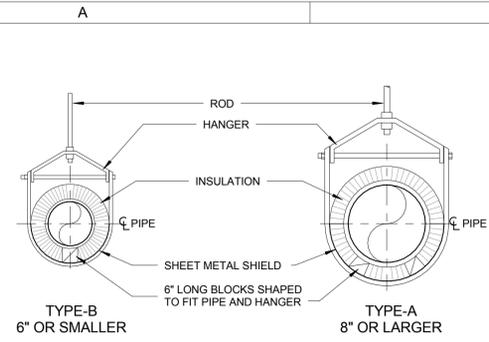
- THIS DRAWING DIAGRAMMATICALLY REPRESENTS THE LAYOUT OF EXISTING CONDITIONS WITH MAJOR MECHANICAL AND ELECTRICAL COMPONENTS. PIPING TO ALL EXISTING PLUMBING FIXTURES IS NOT SHOWN. DRAWINGS NOT INTENDED TO SHOW ACCESSORIES OR INCIDENTALS COMMON TO EQUIPMENT INDICATED, THOUGH THESE ITEMS SHALL BE REMOVED. 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 DASHED 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

- LIGHT LINES INDICATE EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN. BOLD LINES INDICATE PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE INSTALLED THIS CONTRACT UNLESS NOTED OTHERWISE.
- 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.
- BREAK CONNECTIONS ARE REQUIRED AT ALL MAJOR EQUIPMENT AND ALL PIPING ITEMS THAT REQUIRE REMOVAL FOR MAINTENANCE.
- DRAWINGS INDICATE APPROXIMATE ROUTING OF PIPING AND DUCTWORK AND DO NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. VERIFY ROUTING AND CLEARANCES AND COORDINATE WITH OTHER TRADES PRIOR TO FABRICATION.
- PROVIDE NEOPRENE ISOLATORS FOR ALL HANGING MOUNTED EQUIPMENT THAT CONTAINS ROTATING PARTS.
- CONTRACTOR SHALL OPEN EXISTING WALLS AS REQUIRED FOR ACCESS AND INSTALLATION OF NEW PIPING/FIXTURES.
- CONTRACTOR SHALL PATCH/REPAIR ALL UNUSED OPENINGS AND MODIFIED FINISH SURFACES. PATCHING SHALL MATCH MATERIALS, FINISH, AND TEXTURE OF ADJACENT SURFACES.
- 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 FDI STANDARD PDI-WH 201.
- PROVIDE ISOLATION/SERVICE VALVES AT ALL BRANCH CONNECTIONS TO MAINS AND AT BRANCHES SERVING MULTIPLE FIXTURE LOCATIONS.
- ALL NEW PIPING TO BE CONCEALED ABOVE CEILING OR IN WALLS UNLESS NOTED OTHERWISE.
- VERY LIMITED INFORMATION EXISTING ON EXISTING UNDERFLOOR CONDITIONS. WHAT IS SHOWN IS ESTIMATED. CONTRACTOR SHALL SAWCUT FLOORING AS REQUIRED FOR REMOVAL/INSTALL OF SANITARY AND VENT PIPING. CONTRACTOR SHALL VERIFY WHAT IS LOCATED UNDERFLOOR BEFORE BEGINNING SAW CUTTING. CONSULT WITH ALL TRADES CONSULT WITH ALL TRADES. VERIFY EXISTING PIPE SIZES, SERVICE, AND DIRECTION OF FLOW PRIOR TO MAKING NEW CONNECTIONS. REINFORCE WITH #3 REBAR 18" O.C. EACH WAY (DRILL AND GROUT 3" IMBED) COORDINATE DEPTH OF THE SAWCUT AND METHOD OF SLAB REMOVAL. CONCRETE - 4000 PSI, MAXIMUM W/C RATIO = 0.5. DEPTH TO MATCH EXISTING 6".

KEYNOTE LEGEND

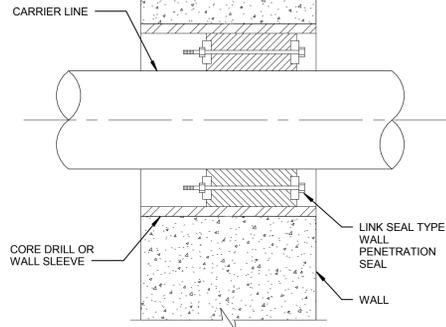
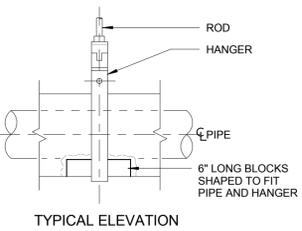
M01	PROVIDE PVC JACKETING TO ALL EXISTING INSULATED STEAM LINES LOCATED BELOW NEW CEILINGS. REPAIR ANY INSULATION DAMAGED CAUSED DURING CONSTRUCTION.
M04	PROVIDE FRAME/SUPPORTS SUFFICIENT FOR WEIGHT AND SERVICE OF DEVICE. SEAL/PATCH TO MATCH EXISTING MATERIALS AND FINISHES. SEAL ALL OPENINGS WATER TIGHT.
M05	INSTALL 7-1/2" WIDE X 3/8" MILD STEEL LINTEL PLATE OVER EACH DUCT PENETRATION THROUGH CMU WALL. PLATE SHALL BEAR A MINIMUM OF 4" EACH SIDE OF OPENING. GROUT AND SEAL TO MATCH ADJACENT.
MD01	REMOVE STEAM HEATER AND ALL ASSOCIATED CONTROLS. REMOVE PNEUMATIC TUBING BACK TO MAIN AND CAP. REMOVE STEAM SUPPLY BACK TO MAIN AND CAP AND PATCH INSULATION. INSULATION TO MATCH EXISTING. REMOVE CONDENSATE BACK TO NEXT ACTIVE BRANCH AND CAP, OR CAP UNDERFLOOR.
MD02	REMOVE EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS. MODIFY EXISTING PENETRATIONS AS REQUIRED FOR NEW WORK. SEE NEW WORK PLANS.
MD03	RELOCATE EXISTING T-STAT. MODIFY/EXTEND PNEUMATIC TUBING AS REQUIRED.
P01	RECONNECT NEW LAVATORY TO DOMESTIC WATER. RECONNECT SANITARY AND VENT TO EXISTING PIPING UNDERFLOOR/IN CHASE WALL. MODIFY EXISTING PIPING AS REQUIRED.
P02	ROUTE 3" SANITARY FROM NEW WATER CLOSET TO EXISTING MAIN UNDERFLOOR. PROVIDE NEW 2" VENT PIPE AND ROUTE UP NEW WATER CLOSET CHASE WALL AND ABOVE CEILING TO CONNECT TO EXISTING VENT MAIN.
P03	ROUTE 3" SANITARY FROM NEW WATER CLOSET TO EXISTING MAIN UNDERFLOOR. PROVIDE NEW 2" VENT PIPE AND ROUTE UP NEW URINAL CHASE WALL AND ABOVE CEILING TO CONNECT TO EXISTING VENT MAIN.
P04	ROUTE 2" SANITARY FROM NEW URINALS TO EXISTING MAIN UNDERFLOOR. ROUTE 2" VENTS ABOVE CEILING TO EXISTING VENT MAIN.
P05	ROUTE 3" WASTE FROM NEW FLOOR DRAIN TO EXISTING SANITARY MAIN UNDERFLOOR. ROUTE 2" VENT UP NEW URINAL CHASE WALL AND ABOVE CEILING TO EXISTING VENT MAIN.
P06	ROUTE 2" WASTE FROM NEW SINK TO EXISTING SANITARY MAIN UNDERFLOOR. ROUTE 2" VENT UP NEW CHASE WALL AND ABOVE CEILING TO CONNECT TO EXISTING VENT MAIN.
P07	CONTRACTOR TO ASSUME ENTIRE MEN'S RESTROOM FLOOR IS SAWCUT, REMOVED AND REPLACED. VERY LIMITED INFORMATION IS KNOWN ABOUT EXISTING UNDERFLOOR CONDITIONS. WHAT IS SHOWN IS ESTIMATED. CONTRACTOR SHALL SAWCUT FLOORING AS REQUIRED FOR REMOVAL/INSTALL OF SANITARY AND VENT PIPING. CONTRACTOR SHALL VERIFY WHAT IS LOCATED UNDERFLOOR BEFORE BEGINNING SAW CUTTING. CONSULT WITH ALL TRADES. VERIFY EXISTING PIPE SIZES, SERVICE, AND DIRECTION OF FLOW PRIOR TO MAKING NEW CONNECTIONS. REINFORCE WITH #3 REBAR 18" O.C. EACH WAY (DRILL AND GROUT 3" IMBED) COORDINATE DEPTH OF THE SAWCUT AND METHOD OF SLAB REMOVAL. CONCRETE - 4000 PSI, MAXIMUM W/C RATIO = 0.5. MATCH EXISTING SLAB ELEVATION AND SURFACE FINISH. DEPTH TO MATCH EXISTING 6".
PD01	REMOVE LAVATORY AND ALL ASSOCIATED DOMESTIC PIPING. REMOVE SANITARY AND VENT BACK TO MAIN AND CAP. 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 AS REQUIRED.
PD03	REMOVE URINAL AND ALL ASSOCIATED DOMESTIC PIPING. REMOVE SANITARY PIPING BACK TO MAIN UNDERFLOOR. SAWCUT FLOOR/OPEN WALL AS REQUIRED.
PD04	REMOVE WATER CLOSET 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. SEE NEW WORK PLANS.
PD05	REMOVE WATER CLOSET. SAWCUT FLOORING AS REQUIRED TO MODIFY SANITARY AND VENTING FOR INSTALLATION OF NEW FIXTURE. MODIFY EXISTING PIPING IN CHASE WALL AS REQUIRED FOR RECONNECTION TO NEW FIXTURE. OPEN WALL AS REQUIRED. SEE NEW WORK PLANS.
PD06	REMOVE LAVATORY. MODIFY EXISTING DOMESTIC, SANITARY AND VENTING IN WALL AS REQUIRED FOR RECONNECTION TO NEW FIXTURE. OPEN WALL/SAWCUT FLOOR AS REQUIRED. SEE NEW WORK PLANS.
PD07	RELOCATE EXISTING FILTER SERVING FIXTURE ABOVE. FILTER TO BE INSTALLED ABOVE NEW CEILING.
PD08	REMOVE CAPPED SANITARY PIPE BACK WITHIN WALL/UNDER FLOOR AND CAP. REMOVE WALL FLOORING AS REQUIRED.
PD09	REMOVE FLOOR DRAIN. REMOVE SANITARY AND VENTING BACK TO MAINS AND CAP. SAWCUT FLOOR AS REQUIRED.



SHIELD SCHEDULE

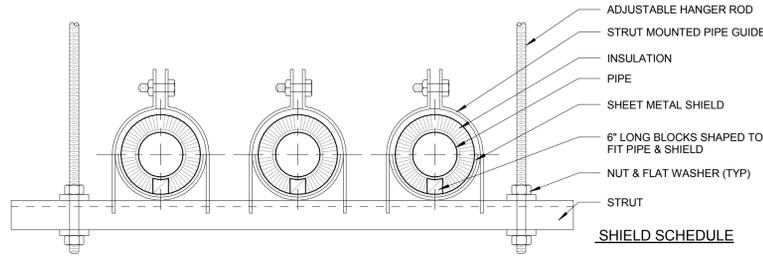
2" AND SMALLER:	16 GAUGE
2 1/2" TO 6":	14 GAUGE
8" AND LARGER:	12 GAUGE

LENGTH OF SHIELD TO BE AT LEAST 6" LONGER THAN THE OUTSIDE DIAMETER OF THE INSULATION



B2 PIPE ROUTED THRU WALL OR FOUNDATION BELOW GRADE
NOT TO SCALE

A2 INSULATED PIPE HANGER DETAIL
NOT TO SCALE



SHIELD SCHEDULE

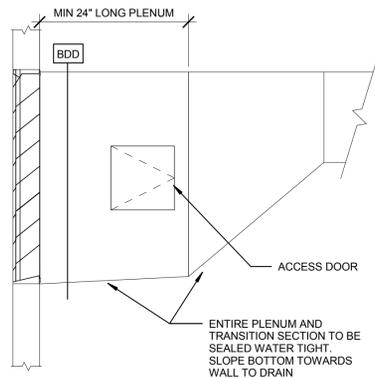
2" AND SMALLER:	16 GAUGE
2 1/2" TO 6":	14 GAUGE
8" AND LARGER:	12 GAUGE

LENGTH OF SHIELD TO BE AT LEAST 6" LONGER THAN THE OUTSIDE DIAMETER OF THE INSULATION

NOTES:

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

A3 TRAPEZE TYPE HANGER DETAIL
NOT TO SCALE



A4 LOUVER DETAIL
NOT TO SCALE

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.

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 TMO 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, BUMPERS, NO COVER

WC2 (WATER CLOSET):

FIXTURE: AMERICAN STANDARD, MADERA FLOWISE SERIES 3451.001, FLOOR MOUNTED, BOTTOM OUTLET, FLUSH VALVE, 1.28 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD, BOLT CAPS. TOP OF RIM NOMINALLY 15" AFF.

FLUSH VALVE: SLOAN, ROYAL OPTIMA 111-1.28 ES-S TMO 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, BUMPERS, 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

UR2 (URINAL):

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 24" 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 (3 STATION LAVATORY - ADA):

FIXTURE: BRADLEY VERGE LAVATORY SYSTEM LVRD SERIES, SERVES 1 TO 3 USERS AT A TIME, LAVATORY SPACING ON 30" CENTERS, BOWL: NOMINALLY 80"x22-1/2". EVERO GEO SERIES, NATURAL QUARTZ SURFACE MADE FROM A BLEND OF BIO-BASED RESIN, NATURAL QUARTZ, GRANITE AND OTHER EXOTIC MINERALS. MADE FROM 25% RECYCLED CONTENT. COLOR TO BE GEO SERIES MOJAVE. PEDESTAL: DECORATIVE 300 SERIES STAINLESS STEEL. SUPPORT FRAME MADE FROM HEAVY GAGE STAINLESS STEEL SUPPORT FRAME MOUNTED TO THE WALL. WATER SUPPLIES, VALVES, WASTE AND FAUCET POWER CONCEALED WITHIN THE PEDESTAL FRAME. NO SOAP DISPENSER, THERMOSTATIC MIXING ASSEMBLY, HOT AND COLD SUPPLIES WITH STOPS AND SUPPLY HOSES.

FAUCET (X3): BRADLEY FAUCET AERADA 1100 SERIES HIGH ARC FAUCET WITH INFRARED CONTROL, SOLENOID VALVE AND SENSOR, ADA COMPLIANT EXTERNAL TEMPERATURE CONTROL, VANDAL RESISTANT CAST BRASS SPOUT WITH CHROME-PLATED FINISH, STAINLESS STEEL SUPPLY HOSES WITH CHECK STOPS, VANDAL RESISTANT 0.5 GPM AERATOR. PROVIDE HARDWIRE TRANSFORMER FOR REMOTE MOUNTING ABOVE CEILING.

WASTE: 17 GAUGE - 1 1/4" CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE-TO-WALL.

L2 (SINGLE STATION LAVATORY - ADA):

FIXTURE: BRADLEY VERGE LAVATORY SYSTEM LVRD SERIES, SERVES 1 AT A TIME, BOWL: NOMINALLY 30"x22-1/2". EVERO GEO SERIES, NATURAL QUARTZ SURFACE MADE FROM A BLEND OF BIO-BASED RESIN, NATURAL QUARTZ, GRANITE AND OTHER EXOTIC MINERALS. MADE FROM 25% RECYCLED CONTENT. COLOR TO BE GEO SERIES MOJAVE. PEDESTAL: DECORATIVE 300 SERIES STAINLESS STEEL. SUPPORT FRAME MADE FROM HEAVY GAGE STAINLESS STEEL SUPPORT FRAME MOUNTED TO THE WALL. WATER SUPPLIES, VALVES, WASTE AND FAUCET POWER CONCEALED WITHIN THE PEDESTAL FRAME. NO SOAP DISPENSER, THERMOSTATIC MIXING ASSEMBLY, HOT AND COLD SUPPLIES WITH STOPS AND SUPPLY HOSES.

FAUCET: BRADLEY FAUCET AERADA 1100 SERIES HIGH ARC FAUCET WITH INFRARED CONTROL, SOLENOID VALVE AND SENSOR, ADA COMPLIANT EXTERNAL TEMPERATURE CONTROL, VANDAL RESISTANT CAST BRASS SPOUT WITH CHROME-PLATED FINISH, STAINLESS STEEL SUPPLY HOSES WITH CHECK STOPS, VANDAL RESISTANT 0.5 GPM AERATOR. PROVIDE HARDWIRE TRANSFORMER FOR REMOTE MOUNTING ABOVE CEILING.

WASTE: 17 GAUGE - 1 1/4" CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE-TO-WALL.

US (UTILITY SINK):

FIXTURE: JUST MANUFACTURING SB-124 SINGLE COMPARTMENT FLOOR MOUNTED UTILITY SINK WITH BACKSPASH, 14 GAUGE TYPE 304, 18-8 STAINLESS STEEL, 27"x27" OVERALL WITH BOWL SIZE OF 24"x24"x12" DEEP, SUPPORTED ON (4) 1 5/8" O.D. STAINLESS STEEL TUBULAR LEGS WITH STAINLESS STEEL ANGLE GUSSETS AND ADJUSTABLE FEET. DRAIN OPENING WITH STRAINER AND STOPPER FURNISHED BY FIXTURE MANUFACTURER.

FAUCET: CHICAGO FAUCETS, 540-LD897SWXFBCP SERIES WALL MOUNTED SINK FAUCET, QUATURN COMPRESSION CARTRIDGES, 2.0 GPM, METAL LEVER HANDLES, 1/2" INLETS ON 8" CENTERS, CONCEALED PIPING, STATIONARY SPOUT WITH VACUUM BREAKER AND 3/4" HOSE THREAD OUTLET, WALL BRACE, CHROME PLATED.

WASTE: STRAINER AND STOPPER FURNISHED WITH FIXTURE, 17 GAUGE - 1 1/2" CHROME PLATED BRASS TAILPIECE, ADJUSTABLE P-TRAP, AND WASTE-TO-WALL

FDA (FLOOR DRAIN):

FIXTURE: 3" ZURN Z-415-B SERIES, CAST IRON, MEMBRANE CLAMP, FLASHING COLLAR, WEEP HOLES, HUB OUTLET WITH GASKETED CONNECTION, 5" DIA ADJUSTABLE NICKEL BRONZE STRAINER, VANDAL-PROOF. SET TOP OF STRAINER FLUSH WITH FINISHED FLOOR. PROVIDE DEEP SEAL P-TRAP

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 O-RING PISTON, CERTIFIED TO FUNCTION IN ACCORDANCE WITH STANDARDS, PDI-WH201 AND ASSE-1010. LOCATIONS NOT SHOWN ON PLANS. REFERENCE SPECIFICATIONS.

FIXTURE PIPING CONNECTION SCHEDULE						
FIXTURE	WASTE	VENT	HW	CW	REMARKS	
WC	3"	2"	--	1"	WATERCLOSET	
UR	2"	2"	--	3/4"	URINAL	
L	1-1/2"	1-1/2"	1/2"	1/2"	LAVATORY	
US	2"	2"	1/2"	1/2"	UTILITY SINK	
FDA	3"	2"	--	--	FLOOR DRAIN	

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

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	STEEL	FIRE RATED DOOR GRILLE	DARK BRONZE	-	NAILOR 61DGD-FR	DOOR TRANSFER GRILLE	

- NOTES: 1. COORDINATE MOUNTING STYLES WITH WALL/CEILING TYPE
2. COORDINATE DOOR LOUVER WITH DOOR MANUFACTURER

LOUVER SCHEDULE										
TYPE MARK	CFM	SERVICE	DIMENSIONS (INCHES)			MAX PD (INCH WC)	FREE AREA VELOCITY (FPM)	MINIMUM % FREE AREA	DESIGN BASIS	REMARKS
L-1	380	EXHAUST	D	W	H	0.10	768	33	RUSKIN ELF6375DX	COLOR BY OWNER/ARCH
NOTES: 1. MAX PRESSURE DROP INCLUDES BIRD SCREEN.										

FAN SCHEDULE													
PLAN MARK	TYPE	CFM	ESP (IN H2O)	NO FLOW ESP (IN H2O)	MOTOR DATA				DAMPER TYPE	INLET SONES	DESIGN BASIS	REMARKS	
					BHP	HP	VOLTS	PHASE					DRIVE
EF-1	INLINE	380	0.50	0.71	0.07	1/6	120	1	DIRECT	1622	BACKDRAFT	8.0	GREENHECK SQ VG RESTROOM EXHAUST
EF-2	SIDEWALL	300	0.20	0.30	0.04	1/4	120	1	DIRECT	950	BACKDRAFT	4.0	GREENHECK SE VG LOCKER ROOM EXHAUST

- NOTES: 1. COORDINATE DAMPERS WITH SHEET METAL CONTRACTOR.
2. PROVIDE EF-1 WITH TWO SPEED EC MOTOR, DIALS ON FAN, LOW SPEED (80 CFM) TO OPERATE DURING UNOCCUPIED, HIGH SPEED (380 CFM) TRIGGERED BY EITHER MENS ROOM OCC SENSOR OR WOMENS ROOM OCC SENSOR. CONTROL WIRING BY ELEC.
3. PROVIDE EF-2 WITH EC MOTOR, DIAL ON MOTOR.
4. EF-1 AND EF-2 TO BE POWERED THROUGH DIGITAL PROGRAMMABLE TIMECLOCK PROVIDED BY ELECTRICAL, SEE ELECTRICAL PLANS.

UNIT HEATER - ELECTRIC SCHEDULE									
PLAN MARK	CFM	MINIMUM AIR TEMP RISE	ELECTRICAL DATA					DESIGN BASIS	REMARKS
			KW	FLA	VOLTS	PHASE			
PUH-1	350	45	5	14	208	3	BERKO HUHAA		

- NOTES: 1. MANUFACTURE TO PROVIDE INTEGRAL TWO STAGE T-STAT AND DISCONNECT

ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION
		RECESSED LIGHT (TYPE DENOTED)
		RECESSED FLUORESCENT LIGHT (TYPE DENOTED)
		EMERGENCY BATTERY LIGHT (TYPE DENOTED)
96"		SINGLE POLE SW.
48"		DUPLEX RECEPT.
18"		DUPLEX RECEPT.
AS NOTED		CONDUIT CONCEALED IN WALL OR OVERHEAD
72"		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".

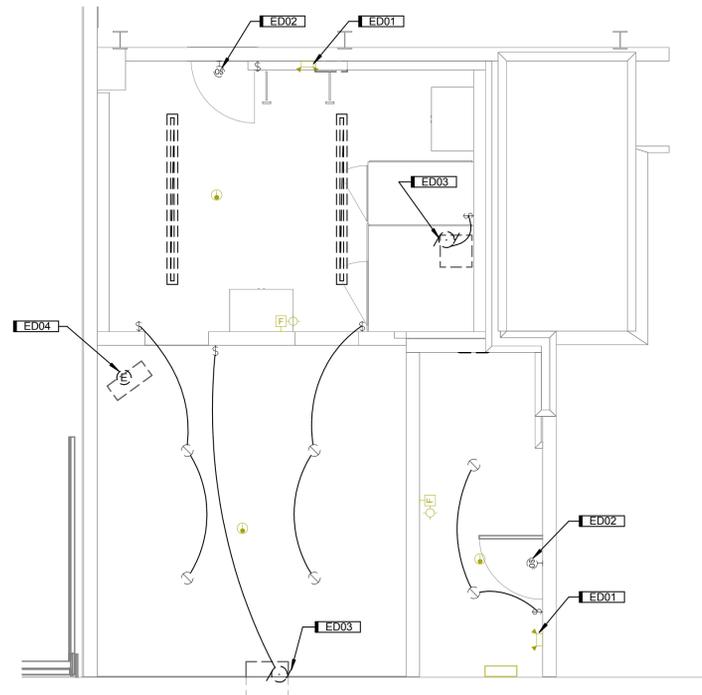
* DISTANCE ABOVE TOP OF DOOR FRAME **** DISTANCE BELOW CEILING
 ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE ***** DISTANCE TO BOTTOM OF DEVICE
 *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT

KEYNOTE LEGEND

E#	DESCRIPTION
E01	PROVIDE NEW CORNER-MOUNT OCCUPANCY SENSOR FOR LOCKER ROOM. LIGHT FIXTURES SHALL BE AUTO-ON/AUTO-OFF.
E02	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.
E03	CONNECT CIRCUIT TO SPARE 20A/1P CIRCUIT BREAKER IN PANEL LP4.
E04	PROVIDE AND INSTALL NEW 20A/3P CIRCUIT PANEL PP4 TO SERVE NEW UNIT HEATER.
E05	RE-USE EXISTING LIGHTING CIRCUITS FOR NEW LIGHT FIXTURES.
ED01	REMOVE EMERGENCY FIXTURE TO ALLOW FURRING OF WALL. RE-INSTALL FIXTURE ONCE WALL IS FINISHED.
ED02	REMOVE OCCUPANCY SENSOR AND TURN OVER TO OWNER.
ED03	REMOVE FAN AND SWITCH. SAVE CIRCUIT FOR RE-USE.
ED04	REMOVE UNIT HEATER ELECTRICAL CONNECTION.

ELECTRICAL GENERAL DEMOLITION NOTES

1. DEMO LIGHTING FIXTURES AND ASSOCIATED SWITCHES UNLESS NOTED OTHERWISE. SAVE CONDUIT AND WIRE FOR RE-USE.
2. EXISTING FIRE-ALARM DEVICES INCLUDING HEAT DETECTORS AND STROBES SHALL REMAIN IN PLACE.



A3 01-Level 1-POWER DEMO
1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

PLAN MARK	DESCRIPTION	LENS-LOUVER	LAMPS	VOLTAGE	BALLAST	INPUT	MOUNTING	BASIS OF DESIGN	APPROVED EQUIVALENT	NOTES
L1	2'x4' VOLUMETRIC LED TROFFER, STEEL HOUSING	ACRYLIC PRISMATIC DIFFUSER	LED, 3500 LUMENS, 4000K	120V	LED DRIVER	33 W	LAY-IN	LITHONIA VLED	OR APPROVED EQUIVALENT	
L2	1'x4' SURFACE VOLUMETRIC LED, STEEL HOUSING	ACRYLIC REFRACTOR	LED, 2000 LUMENS, 4000K	120V	LED DRIVER	20 W	SURFACE	LITHONIA STL4	OR APPROVED EQUIVALENT	

BALLAST TYPES: PS-NBF: PROGRAMMED START NORMAL BALLAST FACTOR (1.88 BF) PS-HBF: PROGRAMMED START HIGH BALLAST FACTOR (1.0 BF) DHD-NBF: DIMMING BALLAST, 0-10 VDC

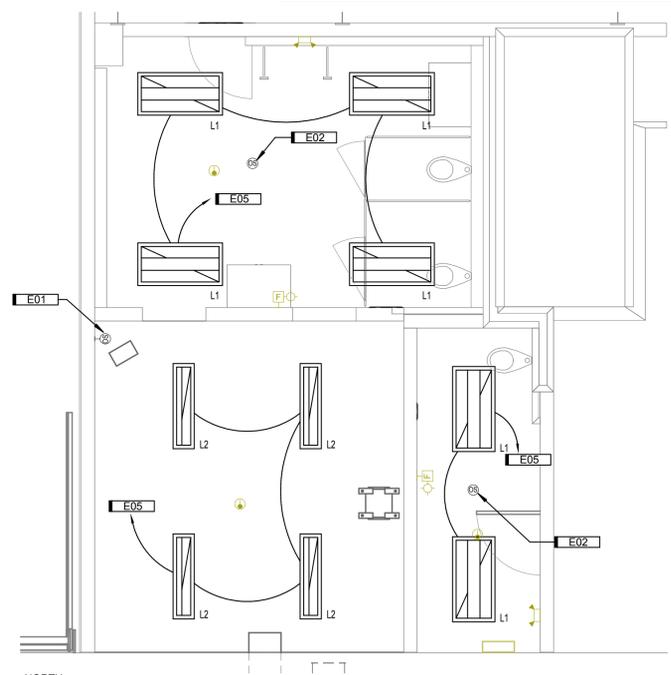
GENERAL NOTES:
 1. LUMENS LISTED FOR LED FIXTURES ARE DELIVERED LUMENS. PROVIDE FIXTURE WITHIN +/- 5% OF LISTED LUMENS.

MECHANICAL EQUIPMENT SCHEDULE

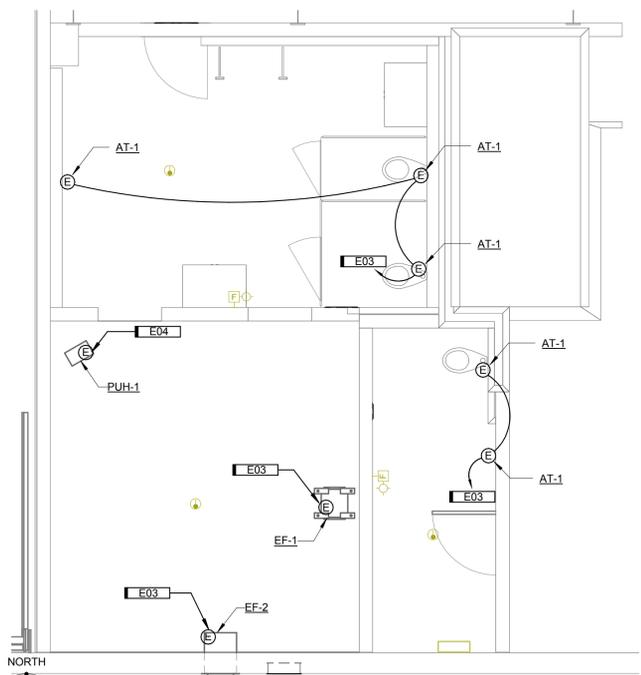
PLAN MARK	DESCRIPTION	HP/KW	VOLT/PH	FLA	C/B	CONDUIT, WIRE SIZE	DISC.	NOTES
AT-1	AUTO-TRANSFORMER FLUSH VALVE		120/1			3/4" C, 2#12, #12 GROUND	PWE	
EF-1	EXHAUST FAN	1/6 HP	120/1	4.4	20/1	3/4" C, 2#12, #12 GROUND	SPSW 1, 2	
EF-2	EXHAUST FAN	1/4 HP	120/1	5.8	20/1	3/4" C, 2#12, #12 GROUND	SPSW 2	
PUH-1	UNIT HEATER	5 kW	208/3	10.0	20/1	3/4" C, 2#12, #12 GROUND	PWE	

KEY:
 FLA = FULL LOAD AMPS MCA = MIN. CIRCUIT AMPS C/B = CIRCUIT BREAKER VFD = VARIABLE FREQUENCY DRIVE
 WP=WEATHERPROOF SPSW = SINGLE POLE SWITCH F = FUSED NF = NON-FUSED REC = RECEPTACLE
 MMS=MANUAL MOTOR STARTER PWE = PROVIDED WITH EQUIPMENT MAG=MAGNETIC STARTER

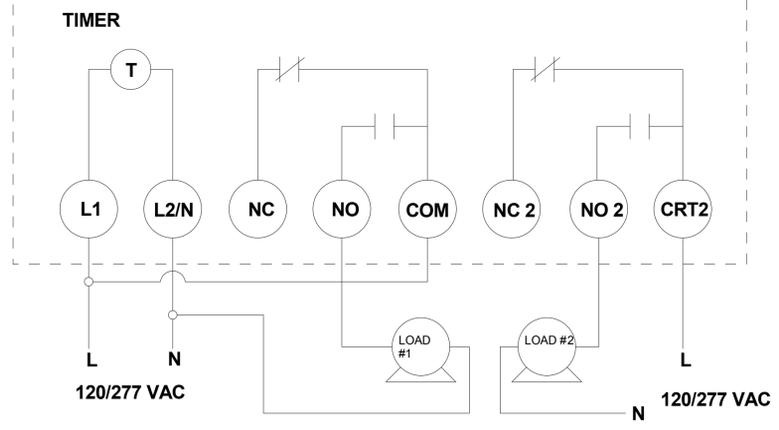
NOTES:
 1. CONNECT EXHAUST FAN TO OCCUPANCY SENSORS IN MENS AND WOMENS RESTROOM. FAN SHALL GO TO HIGH SPEED SETTING ONCE EITHER OCCUPANCY SENSOR GOES INTO OCCUPIED MODE.
 2. CONNECT BOTH FANS TO A 7-DAY PROGRAMMABLE TIMER, SIMILAR TO INTERMATIC GMD4VE. SEE DETAIL FOR MORE INFORMATION.



C3 01-Level 1-LIGHTING NEW
1/4" = 1'-0"



E3 01-Level 1-POWER NEW
1/4" = 1'-0"



1 TIMER DIAGRAM
NOT TO SCALE