

A

three inches = one foot

B

one and one half inch = one foot

C

one inch = one foot

D

three quarters inch = one foot

E

one half inch = one foot

F

one quarter inch = one foot

one eighth inch = one foot

GENERAL PLUMBING NOTES	
1.	THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
2.	CONTRACTOR SHALL VERIFY ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS
3.	ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED, 2" SANITARY OR SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
4.	VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
5.	CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
6.	CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
7.	ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
8.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
9.	ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
10.	CONTRACTOR SHALL GIVE 10 DAYS NOTICE IN WRITING TO, AND RECEIVE WRITTEN APPROVAL, FROM THE BUILDING ADMINISTRATOR (OR HIS REPRESENTATIVE) PRIOR TO SHUT DOWN OF ANY SYSTEM OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE THE EXACT LOCATION AND TIMING OF SYSTEM(S) SHUTDOWN POINTS WITH THE OWNER REPRESENTATIVE (I.E.: ENGINEERING DEPARTMENT) CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DURATION OF ANY DOWNTIME OR DISRUPTION PERIOD.
11.	ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
12.	PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
13.	CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
14.	CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
15.	CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
16.	ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
17.	COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
18.	CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING ATC CEILING AS REQUIRED FOR DEMOLITION AND NEW WORK. CONTRACTOR TO REPLACE ANY DAMAGED CEILING TILES TO MATCH EXISTING.
19.	WORK IN CORRIDORS SHALL BE PERFORMED AFTER NORMAL BUSINESS HOURS.
20.	REFER TO ARCHITECTURAL PHASING PLAN FOR PROJECT PHASING. COORDINATE REQUIRED WORK WITH ALL OTHER TRADES FOR EACH PHASE. CONTRACTOR SHALL MAINTAIN PROJECT DEADLINES FOR EACH PHASE AND COORDINATE AREA OF WORK AND SHUTDOWNS WITH OWNER AND ARCHITECT.

PLUMBING RENOVATION NOTES	
1.	WHERE EXISTING PIPING IS DESIGNATED TO BE REMOVED AND CAPPED, ALL PIPING SERVING THE DESIGNATED FIXTURE SHALL BE REMOVED FROM WITHIN WALLS TO THE POINT DESIGNATED ON THE DRAWINGS OR TO A CLEARLY VISIBLE POINT BELOW THE FLOOR IN THE CRAWL SPACE OR ABOVE THE CEILING. PIPING SHALL BE CAPPED BY APPROVED CAPPING METHODS UTILIZING PIPE CAPS INTENDED FOR SUCH USE. ALL CAPS SHALL BE AIRTIGHT AND WATERTIGHT. WATER PIPING SHALL NOT BE LEFT STUBBED FROM MAIN. REMOVE AND COUPLE SECTION OF MAIN AT CONNECTION.
2.	WHERE EXISTING SURFACES ARE DISRUPTED DUE TO THE REMOVAL OF EXISTING EQUIPMENT OR PIPING, THIS CONTRACTOR SHALL BE RESPONSIBLE OR THE REPAIR OF DISRUPTED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
3.	PLUMBING FIXTURES DESIGNATED TO BE REUSED SHALL BE CLEANED AND MAINTENANCE SERVICED TO OPERATE AS INTENDED.
4.	EXISTING CONDITIONS AS SHOWN ON THE DRAWINGS ARE TAKEN FROM ORIGINAL AND AS-BUILT DRAWINGS OF THE BUILDING AND IN PART ARE UNVERIFIED. FIELD CONDITIONS SHALL GOVERN. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO INITIATION OF WORK.
5.	ALL EXISTING SANITARY AND DOMESTIC WATER PIPING SHALL BE RELOCATED TO CREATE REQUIRED SPACE FOR INSTALLATION OF ALL NEW SERVICES FOR NEW CONSTRUCTION, INCLUDING BUT NOT LIMITED TO H.V.A.C., ELECTRICAL, PLUMBING, AND FIRE PROTECTION TRADES. CONTRACTOR SHALL INCLUDE ALL NEW PIPING AND FITTINGS REQUIRED AND RELOCATE ANY AND ALL EXISTING SERVICES.
6.	ALL EXISTING PIPING, NOT REMAINING IN SERVICE AFTER NEW CONSTRUCTION, SHALL BE REMOVED.
7.	PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXISTING PLUMBING FIXTURES AND TRIM, PIPING, VALVES, ETC. IN AREAS TO BE DEMOLISHED.
8.	ALL EXISTING PLUMBING FIXTURES TO BE REMOVED AND ARE NOT TO BE REUSED SHALL REMAIN THE PROPERTY OF THE OWNER. DISCARD UNWANTED FIXTURES AT AT THE DISCRETION OF THE OWNER.
9.	PIPING WHICH IS TO REMAIN IN SERVICE SHALL NOT BE DISTURBED. EXISTING PIPING BROKEN DURING CONSTRUCTION SHALL BE REPLACED WITH NEW PIPING OF THE SAME SIZE AND MATERIAL.
10.	ALL EXISTING SANITARY AND DOMESTIC WATER PIPING THAT ARE LOCATED IN EXISTING WALLS TO BE DEMOLISHED AND REMAINING IN SERVICE AFTER CONSTRUCTION SHALL BE RELOCATED TO NEW WALLS, CHASES, ETC.
11.	COORDINATE WITH GENERAL CONTRACTOR TO PATCH ALL EXISTING WALLS, FLOORS, CEILINGS, ETC., AS REQUIRED BY NEW WORK.

PLUMBING RENOVATION NOTES	
LINE TYPE	DESCRIPTION
	GAS
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	VENT ABOVE GRADE
	VENT BELOW GRADE
	COLD WATER
	COLD WATER BELOW GRADE
	HOT WATER
	RECIRC WATER
	BELOW GRADE STORM
	ABOVE GRADE STORM
	DEMOLITION

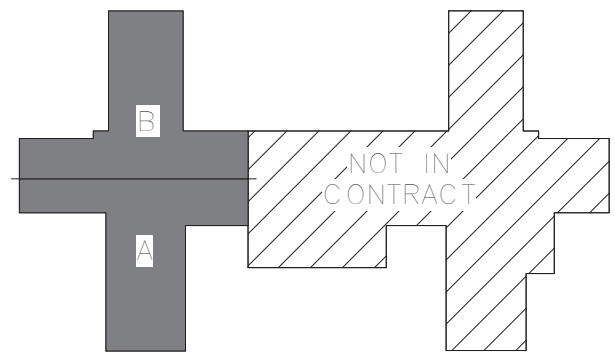
PLUMBING PIPING LEGEND	
	CIRCUIT SETTER
	BALL VALVE OR SHUT-OFF VALVE
	SPRING CHECK VALVE
	END CAP
	NEW TO EXISTING PIPE CONNECTION
	FLOW DIRECTION ARROW
	NEW TO EXISTING POINT OF CONNECTION SYMBOL
	PIPE CONNECTION
	HAMMER ARRESTOR (ISOMETRIC VIEW)
	HAMMER ARRESTOR (TOP VIEW)
	REGULATOR
	MEDICAL VACUUM OUTLET
	OXYGEN OUTLET
	MEDICAL AIR OUTLET
	AREA ALARM PANEL (MEDICAL GAS)
	ZONE VALVE BOX (MEDICAL GAS)
	PIPING LINWEIGHT: NEW/DEMOLITION
	PIPING LINWEIGHT: EXISTING

PLUMBING ABBREVIATIONS	
AA	AREA ALARM PANEL (MEDICAL GAS)
AG	ABOVE GRADE
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ALT	ALTERNATE
BG	BELOW GRADE
CA	COMPRESSED AIR
CO	CLEANOUT
COL	COLUMN
CW	COLD WATER (DOMESTIC)
DN	DOWN
DS	DOWNSPOUT/STORM LEADER
EC	ELECTRICAL CONTRACTOR
EQ	EQUAL
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FOV	FUEL OIL VENT
FS	FLOOR SINK
FT	FOOT (FEET)
FV	FLUSH VALVE
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HA	HAMMER ARRESTOR
HW	HOT WATER (DOMESTIC)
HWR	HOT WATER RETURN (DOMESTIC)
LA	LABORATORY AIR
MA	MEDICAL AIR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MED	MEDICAL
MIN	MINIMUM
MV	MEDICAL VACUUM
NTS	NOT TO SCALE
NPCW	NON POTABLE COLD WATER
O2	OXYGEN
OS	OPEN SITE DRAIN
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
SAN	SANITARY
SCH	SCHEDULE
SPEC	SPECIFICATIONS
SS	SANITARY STACK
TEMP	TEMPERATURE
TW	TEPID WATER (DOMESTIC)
TYP	TYPICAL
VS	VENT STACK
VTR	VENT THRU ROOF
WA	WASTE ANESTHESIA
W/	WITH
WCO	WALL CLEANOUT
WC	WATER CLOSET
ZB	ZONE VALVE BOX (MEDICAL GAS)

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUF.	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS & REMARKS
					COLD	HOT	WASTE	VENT	
S-1	SINGLE COMPARTMENT SINK	ELKAY	LRAD1918-3 6 1/2" DEPTH	COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE CHICAGO #786-E29VPXKCP FAUCET, MCGUIRE 8912 P-TRAP, 151ALT STRAINER W/ 17 GA TAILPIECE, H2165CCLK STOPS, WATTS LFUSG-B MIXING VALVE SET TO 115°F, AND WATTS LF600 CHECK VALVES ON SUPPLIES. SEE DETAIL SHEET.
S-2	DUAL COMPARTMENT SINK	ELKAY	LRAD2918-4 6 1/2" DEPTH	COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE CHICAGO #200-A317ABCP FAUCET W/ SPRAY WAND, MCGUIRE 8912 P-TRAP, 151ALT STRAINER W/ 17 GA TAILPIECE, H2165CCLK STOPS, WATTS LFUSG-B MIXING VALVE SET TO 115°F, WATTS LF600 CHECK VALVES ON SUPPLIES. SEE DETAIL SHEET.
EW-1	ELECTRIC WATER COOLER SYSTEM	ELKAY	LZSTL8WSLK	WALL	1/2"	-	1 1/2"	1 1/2"	PROVIDE 1 1/2" PLASTIC P-TRAP AND WASTE ARM PER MANUFACTURER'S RECOMMENDATIONS. ADA INSTALL.
BT-1	BATHTUB	KOHLER	K-837-0	FLOOR	-	-	-	-	BATH TUB SHALL NOT BE CONNECT TO WATER SUPPLY AND DRAINAGE SYSTEM. SERVES AS PROP ONLY. CAP BATH DRAIN BELOW FLOOR.
MS-1	MOP SINK	FIAT	TSB-3010	FLOOR	1/2"	1/2"	3"	-	PROVIDE AND INSTALL CHICAGO 911-ISCP FAUCET, FIAT 832-AA HOSE & HOSE HOLDER, FIAT 889-CC MOP HANGER, FIAT E-77-AA BUMPER GUARDS, FIAT MSG-2424 WALL GUARDS, FIAT 1453-BB FLAT STAINLESS STEEL STRAINER & FIAT QDC'S.
L-1	WALL HUNG LAVATORY	KOHLER	K-2030-0	WALL	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE CHICAGO #786-E29VPXKCP FAUCET, MCGUIRE 8902 P-TRAP, 155A STRAINER, & H2165CC STOPS, TRUEBRO LAV GUARD & WADE 520 CARRIER. PROVIDE WATTS LFUSG-B MIXING VALVE SET TO 115°F, AND WATTS LF600 CHECK VALVES ON SUPPLIES. SEE DETAIL SHEET.
L-2	WALL HUNG LAVATORY	KOHLER	K-2030-0	WALL	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE CHICAGO #786-E29VPXKCP FAUCET, MCGUIRE 8902 P-TRAP, 155A STRAINER, & H2165CC STOPS, TRUEBRO LAV GUARD & WADE 520 CARRIER. PROVIDE WATTS LFUSG-B MIXING VALVE SET TO 115°F, AND WATTS LF600 CHECK VALVES ON SUPPLIES. SEE DETAIL SHEET.
UR-1	URINAL ADA HEIGHT	KOHLER	K-4960-ET	WALL	3/4"	-	2"	1 1/2"	PROVIDE SLOAN ROYAL 186-1.0 FLUSH VALVE AND ZURN Z-1222 CARRIER. ADA INSTALLATION.
WC-1	ADA WATER CLOSET	KOHLER	K-4325-0	WALL	1 1/4"	-	4"	2"	PROVIDE BEMIS 1655C SEAT COVER, SLOAN ROYAL 111 FLUSH VALVE AND ZURN Z1203-ND4 CARRIER FOR BACK TO BACK INSTALLATION AND Z1203-N4 FOR SINGLE APPLICATION. ADA INSTALLATION.
WC-2	ADA WATER CLOSET	KOHLER	K-3658-0	FLOOR	1/2"	-	4"	-	PROVIDE KOHLER K-4731-0 SEAT COVER (WHITE) AND KOHLER K-7637-CP SUPPLY W/ STOP. ADA INSTALLATION.
FD-1	FLOOR DRAIN	SIoux CHIEF	833-23NR	FLOOR	-	-	3"	-	INSTALL FLUSH WITH FINISHED FLOOR. OR EQUAL.
HA-1	HAMMER ARRESTOR	WATTS	15M2-B	PIPE	3/4"	-	-	-	OR APPROVED EQUAL.

MEDICAL GAS ZONE VALVE BOX SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	N2O	N	CO2	WADG	O2	MED VAC	MED AIR	NOTES
ZB-1	DOUBLE VALVE ZONE BOX ASSEMBLY	CHEMETRON	#77-82-0022	-	-	-	-	X	-	X	1,2
NOTE: 1. PRIOR TO INSTALLATION FIELD VERIFY FINAL LOCATION OF VALVE WITH ARCHITECT AND GENERAL CONTRACTOR. 2. CONTRACTOR SHALL PROVIDE CHEMETRON PRESSURE GAUGE #77-90-0571 FOR OXYGEN AND MEDICAL AIR.											

PLUMBING SHEET INDEX	
PL001	PLUMBING & MEDICAL GAS LEAD SHEET
PD100	3RD FLOOR PLUMBING DEMOLITION PLAN - OVERALL FOR REFERENCE ONLY
PD101	3RD FLOOR PLUMBING DEMOLITION PLAN - PART A
PD102	3RD FLOOR PLUMBING DEMOLITION PLAN - PART B
PD200	4TH FLOOR WASTE PLUMBING DEMOLITION PLAN - OVERALL FOR REFERENCE ONLY
PD201	4TH FLOOR WASTE PLUMBING DEMOLITION PLAN - PART A
PD202	4TH FLOOR WASTE PLUMBING DEMOLITION PLAN - PART B
PD300	4TH FLOOR WATER PLUMBING DEMOLITION PLAN - OVERALL FOR REFERENCE ONLY
PD301	4TH FLOOR WATER PLUMBING DEMOLITION PLAN - PART A
PD302	4TH FLOOR WATER PLUMBING DEMOLITION PLAN - PART B
MGD100	4TH FLOOR MEDICAL GAS DEMOLITION PLAN - OVERALL FOR REFERENCE ONLY
MGD101	4TH FLOOR MEDICAL GAS DEMOLITION PLAN - PART A
MGD102	4TH FLOOR MEDICAL GAS DEMOLITION PLAN - PART B
PL100	3RD FLOOR PLUMBING PLAN - OVERALL FOR REFERENCE ONLY
PL101	3RD FLOOR PLUMBING PLAN - PART A
PL102	3RD FLOOR PLUMBING PLAN - PART B
PL200	4TH FLOOR WASTE PLUMBING PLAN - OVERALL FOR REFERENCE ONLY
PL201	4TH FLOOR WASTE PLUMBING PLAN - PART A
PL202	4TH FLOOR WASTE PLUMBING PLAN - PART B
PL300	4TH FLOOR WATER PLUMBING PLAN - OVERALL FOR REFERENCE ONLY
PL301	4TH FLOOR WATER PLUMBING PLAN - PART A
PL302	4TH FLOOR WATER PLUMBING PLAN - PART B
MG100	4TH FLOOR MEDICAL GAS PLAN - OVERALL FOR REFERENCE ONLY
MG101	4TH FLOOR MEDICAL GAS PLAN - PART A
MG102	4TH FLOOR MEDICAL GAS PLAN - PART B
PL401	PLUMBING WASTE ISOMETRIC
PL402	PLUMBING WATER ISOMETRIC
PL501	PLUMBING & MEDICAL GAS DETAILS



KEY PLAN
NOT TO SCALE

100% CONSTRUCTION DOCUMENTS - REVISED	01/22/2014
Revisions:	Date

CONSULTANTS:	
engineers consultants commissioning	
MEP Associates, LLC 2750 Arbor Court Eau Claire, WI 54601	
Phone: 715.832.5580 Fax: 715.832.5548 www.mepassociates.com	
MEP PROJECT NO.: N06.13.01	



ARCHITECT/ENGINEERS:	
420 RAIL STREET NEGAUNEE, MI 49866 PHONE: 906-475-6616 FAX: 906-475-6954 NDW PROJECT NUMBER: 1214	

Drawing Title PLUMBING & MEDICAL GAS LEAD SHEET	Project Title Renovate Four West	Project Number 585-12-132	Office of Construction and Facilities Management
Approved: Project Director	Location IRON MOUNTAIN, MICHIGAN	Building Number 1	
	Date 11/04/2013	Checked TCC	
	Drawn NCF	PL001 Dwg. 33 of 100	



1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
2. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
2. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

NORTH

A circle with a vertical line through the center, indicating North is towards the top of the page.

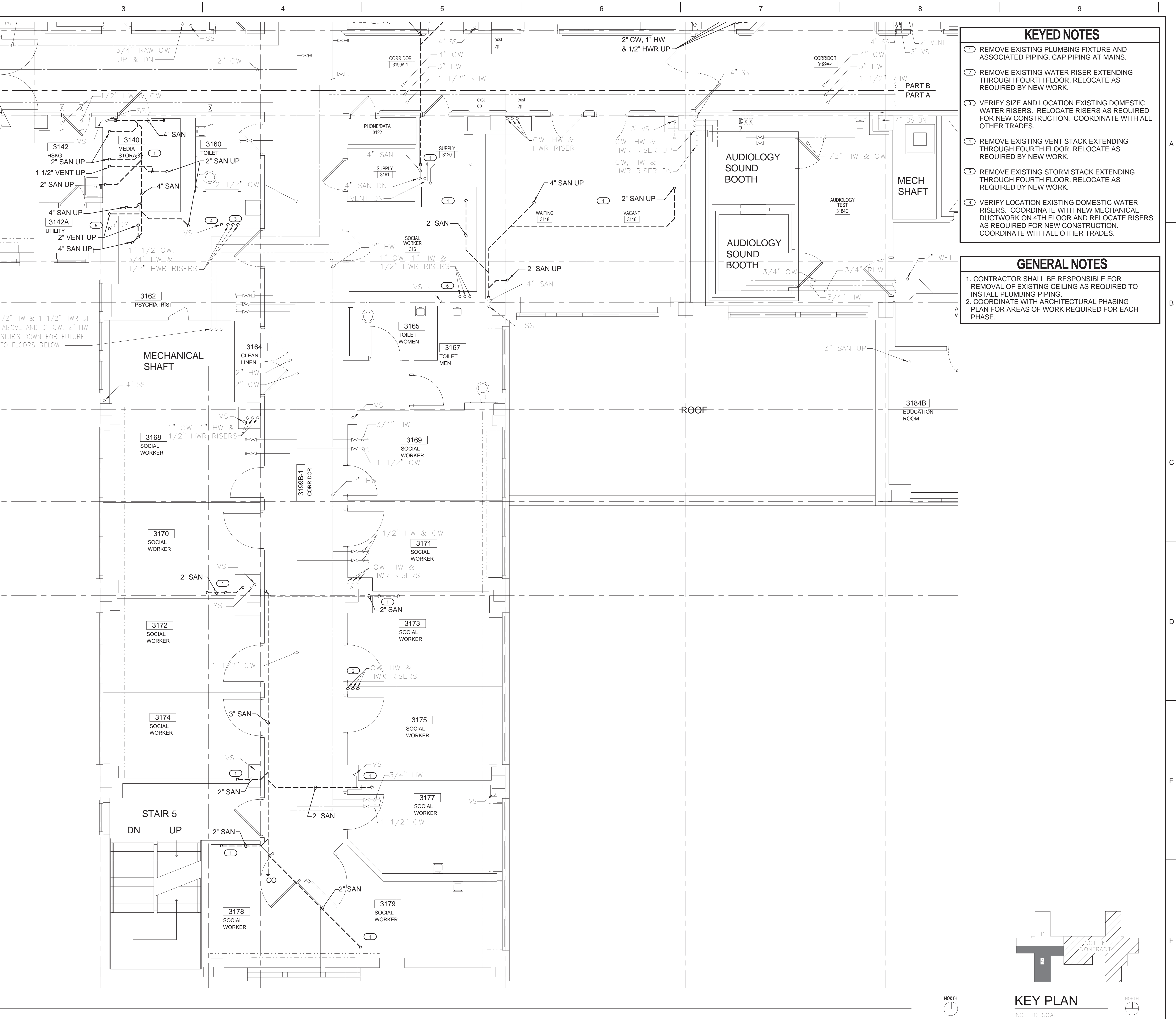
420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Approved: Project Director

Drawn
NCF

PD100

 Department of
Veterans Affairs



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
3RD FLOOR PLUMBING DEMOLITION
PLAN - PART A

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132
Building Number
1

Drawing Number
PD101
Dwg. 35 of 100

Office of
Construction
and Facilities
Management





- ① REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP PIPING AT MAINS.
- ② REMOVE EXISTING WATER RISER EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.
- ③ REMOVE EXISTING VENT STACK EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.
- ④ REMOVE EXISTING SANITARY STACK EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
2. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.



NORTH

A circular compass rose with a vertical line and a horizontal line intersecting at the center. The top of the vertical line is labeled 'NORTH', the bottom is labeled 'SOUTH', the right side of the horizontal line is labeled 'EAST', and the left side is labeled 'WEST'.

420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

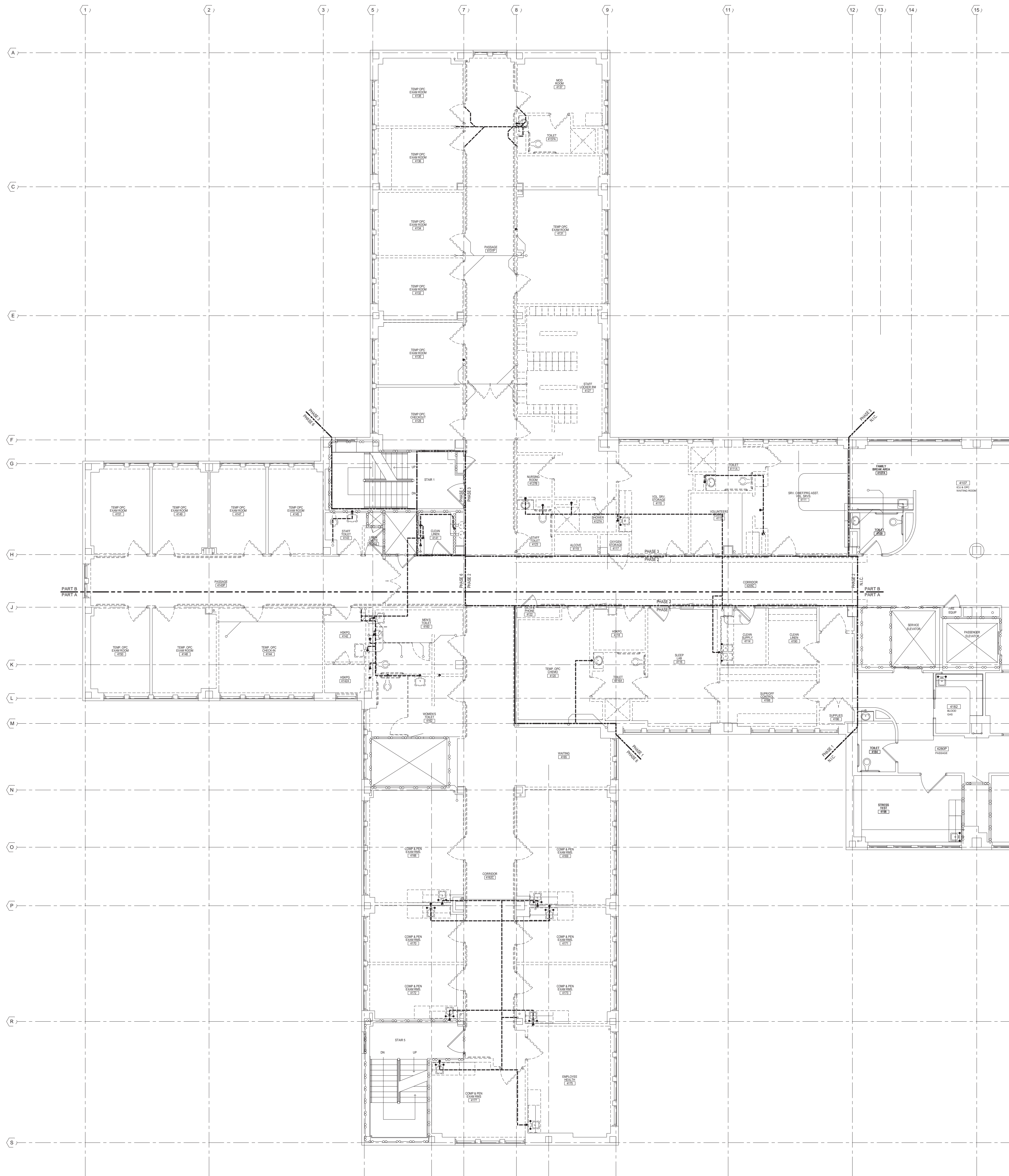
Approved: Project Director

Location	IRON MOUNTAIN, MICHIGAN
----------	-------------------------

Drawn	
NCF	

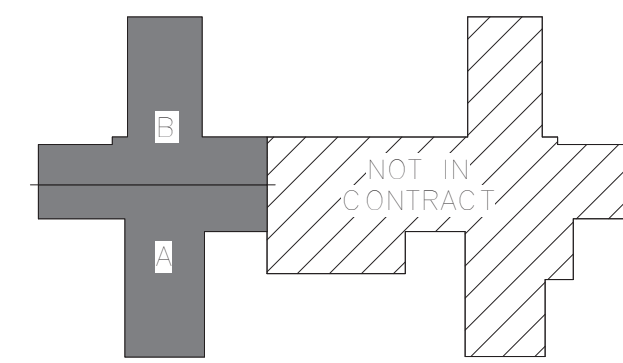
PD102

Department of
Veterans Affairs



- GENERAL NOTES**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
 2. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

1 4TH FLOOR WASTE PLUMBING DEMOLITION PLAN - OVERALL
1/8" = 1'-0"



KEY PLAN
NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR WASTE PLUMBING
DEMOLITION PLAN - OVERALL FOR
REFERENCE ONLY

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

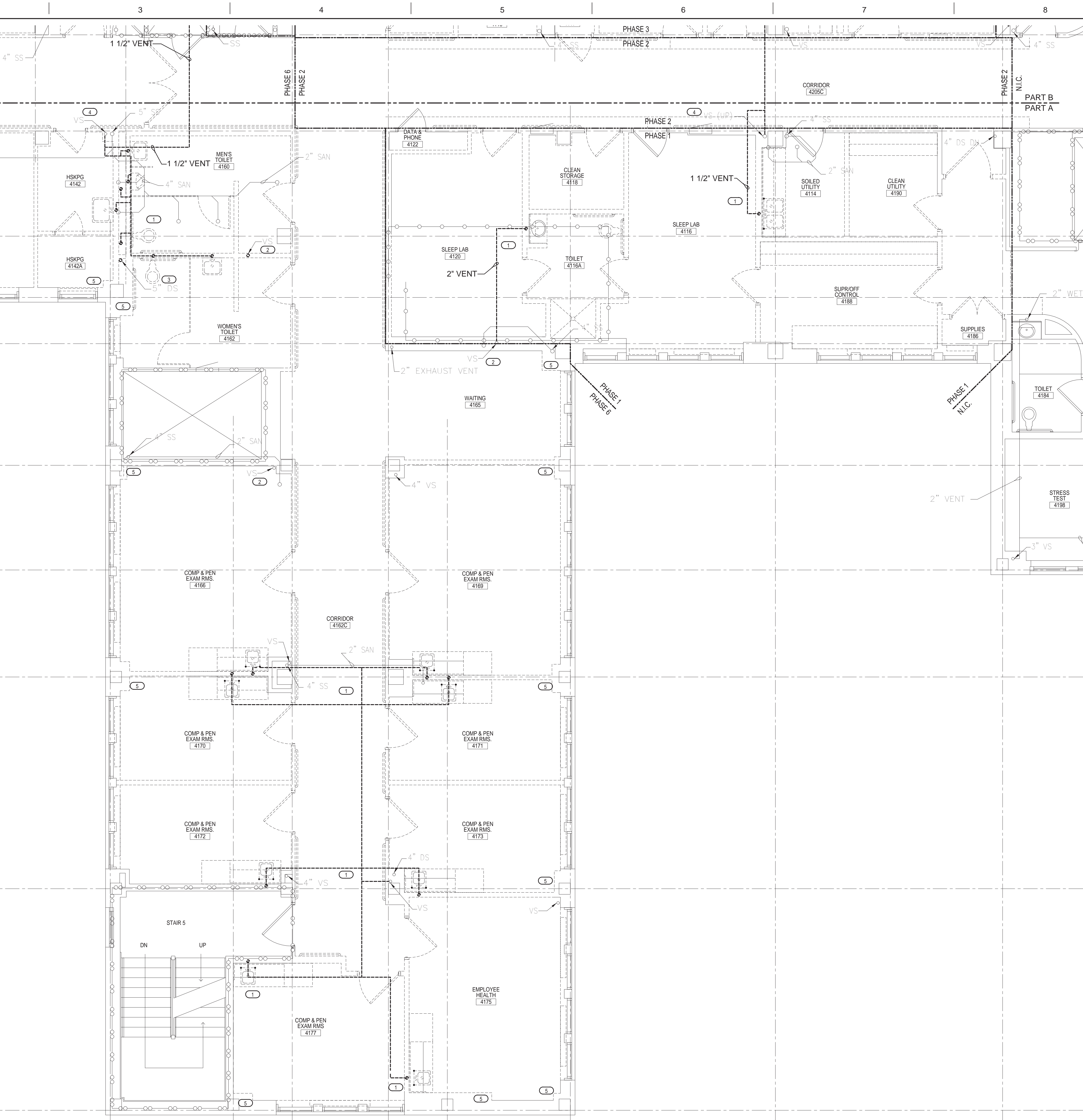
Drawn
NCF

Project Number
585-12-132
Building Number
1

Drawing Number
PD200
Dwg. 37 of 100

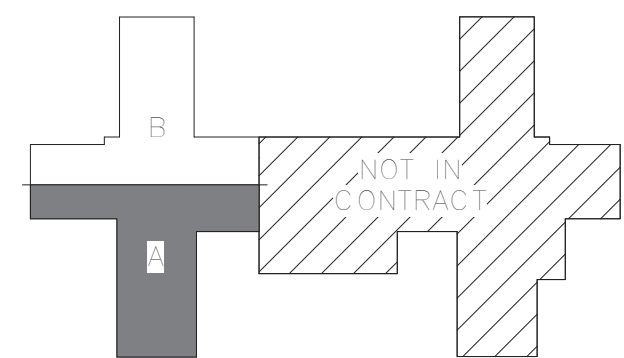
Office of
Construction
and Facilities
Management





- KEYED NOTES**
- 1 REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP PIPING AT MAINS.
 - 2 REMOVE EXISTING VENT STACK EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.
 - 3 REMOVE EXISTING STORM STACK EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.
 - 4 CAP VENT PIPING AT VENT STACK.
 - 5 VERIFY EXISTING PLUMBING PIPING IN EXTERIOR COLUMNS. EXISTING PIPING SHALL BE INSULATED FROM FLOOR TO DECK PER SECTION 22 07 11.

- GENERAL NOTES**
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
 - 2. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.



KEY PLAN
NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
**4TH FLOOR WASTE PLUMBING
DEMOLITION PLAN – PART A**

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

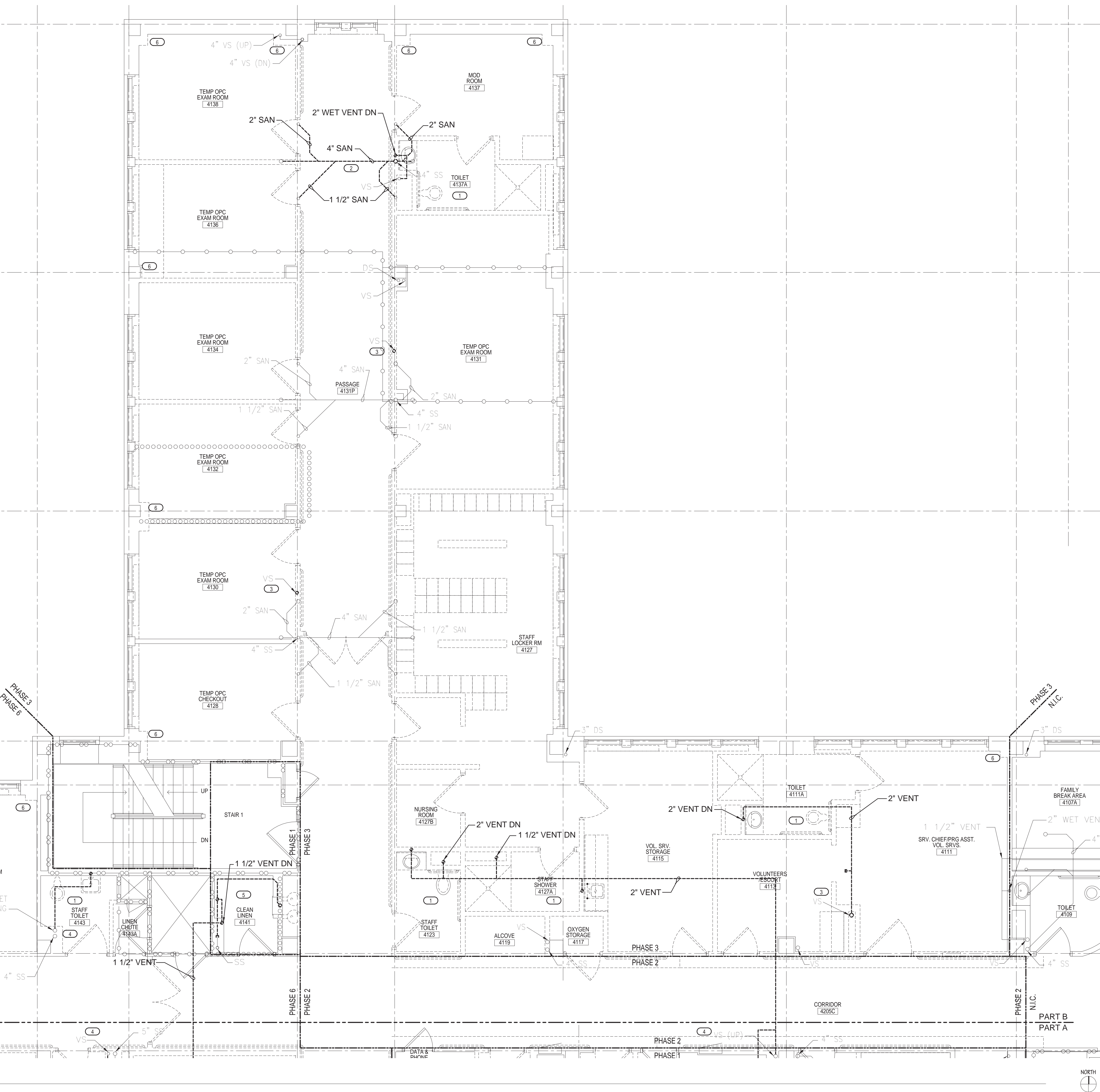
Drawn
NCF

Project Number
585-12-132
Building Number
1

Drawing Number
PD201
Dwg. 38 of 100

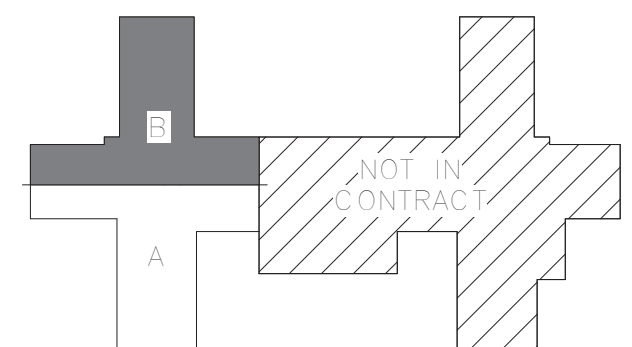
Office of
Construction
and Facilities
Management





- ### KEYED NOTES
- 1. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP PIPING AT MAINS.
 - 2. REMOVE SANITARY PIPING SERVING 5TH FLOOR AND RELOCATE TO NEW WALLS FOR ROUTING TO RELOCATED STACKS.
 - 3. REMOVE EXISTING VENT STACK EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.
 - 4. CAP VENT PIPING AT VENT STACK.
 - 5. VERIFY AND REMOVE ALL EXPOSED PIPING AND ACCESS PANEL SERVING DRINKING FOUNTAIN TO BE REMOVED.
 - 6. VERIFY EXISTING PLUMBING PIPING IN EXTERIOR COLUMNS. EXISTING PIPING SHALL BE INSULATED FROM FLOOR TO DECK PER SECTION 22 07 11.

- ### GENERAL NOTES
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
 - 2. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.



KEY PLAN
NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR WASTE PLUMBING
DEMOLITION PLAN – PART B

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

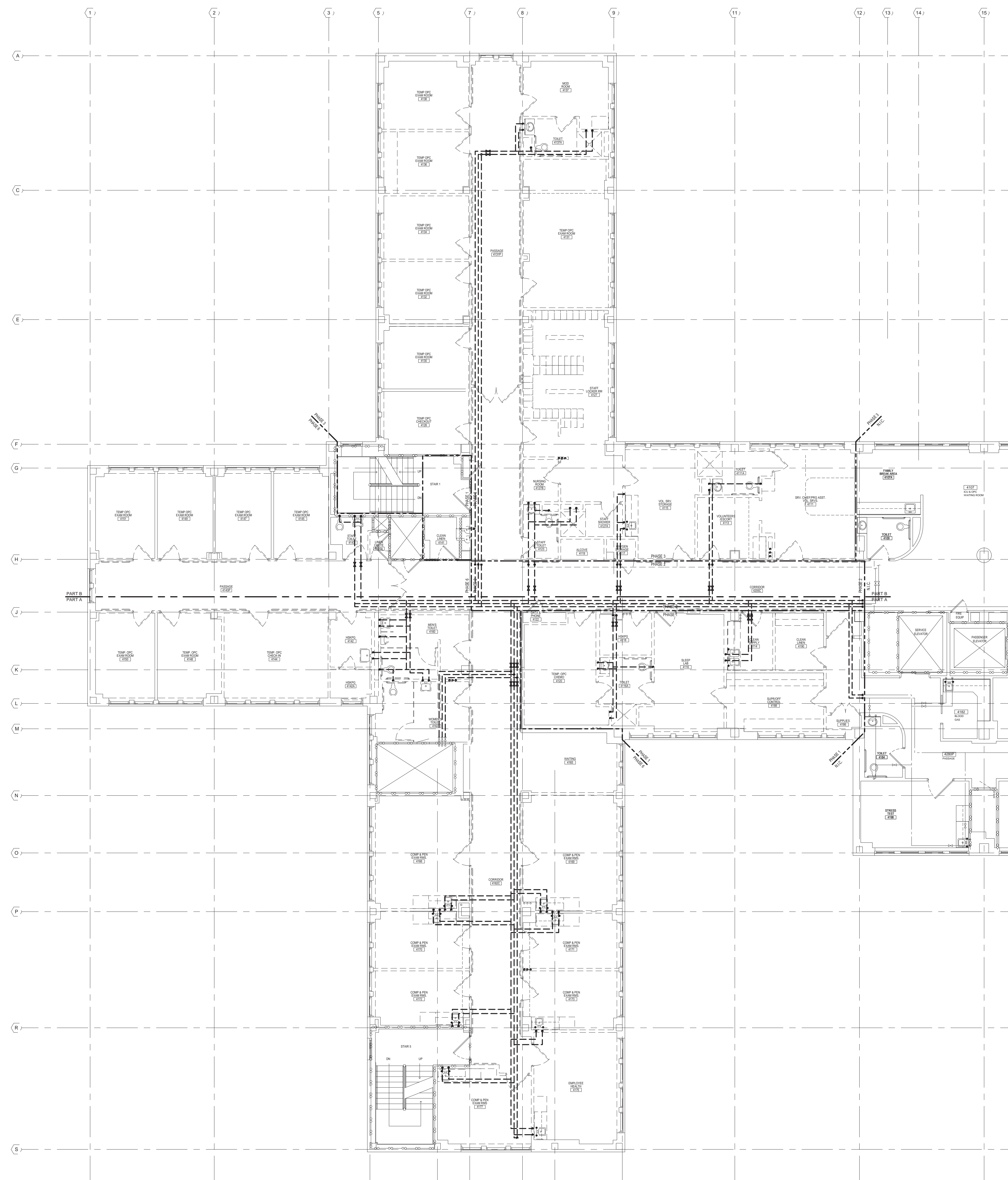
Drawn
NCF

Project Number
585-12-132
Building Number
1

Drawing Number
PD202
Dwg. 39 of 100

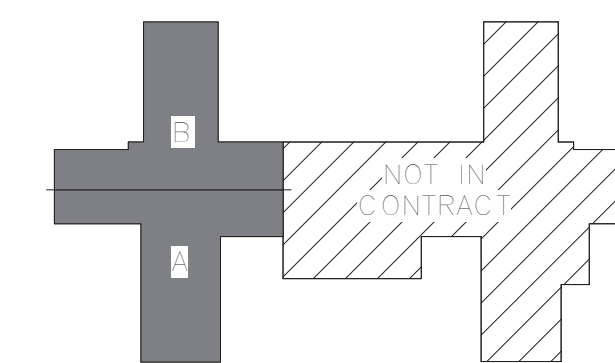
Office of
Construction
and Facilities
Management





GENERAL NOTES

1. DOMESTIC WATER SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
3. COORDINATE WITH ARCHITECTURAL PHASING PLAN.



KEY PLAN

NOT TO SCALE

1 4TH FLOOR WATER PLUMBING DEMOLITION PLAN - OVERALL



ARCHITECT/ENGINEERS:

NORTHERN
DESIGN
WORKS

420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title	4TH FLOOR WATER PLUMBING DEMOLITION PLAN – OVERALL FOR REFERENCE ONLY
---------------	-----------------------------------------------------------------------------

Approved: Project Director

Project Title	Renovate Four West
---------------	--------------------

Location	IRON MOUNTAIN, MICHIGAN

Date 11/04/2013

Checked
TCC

Drawn	NCF
-------	-----

Project Number	585-12-132
Building Number	1

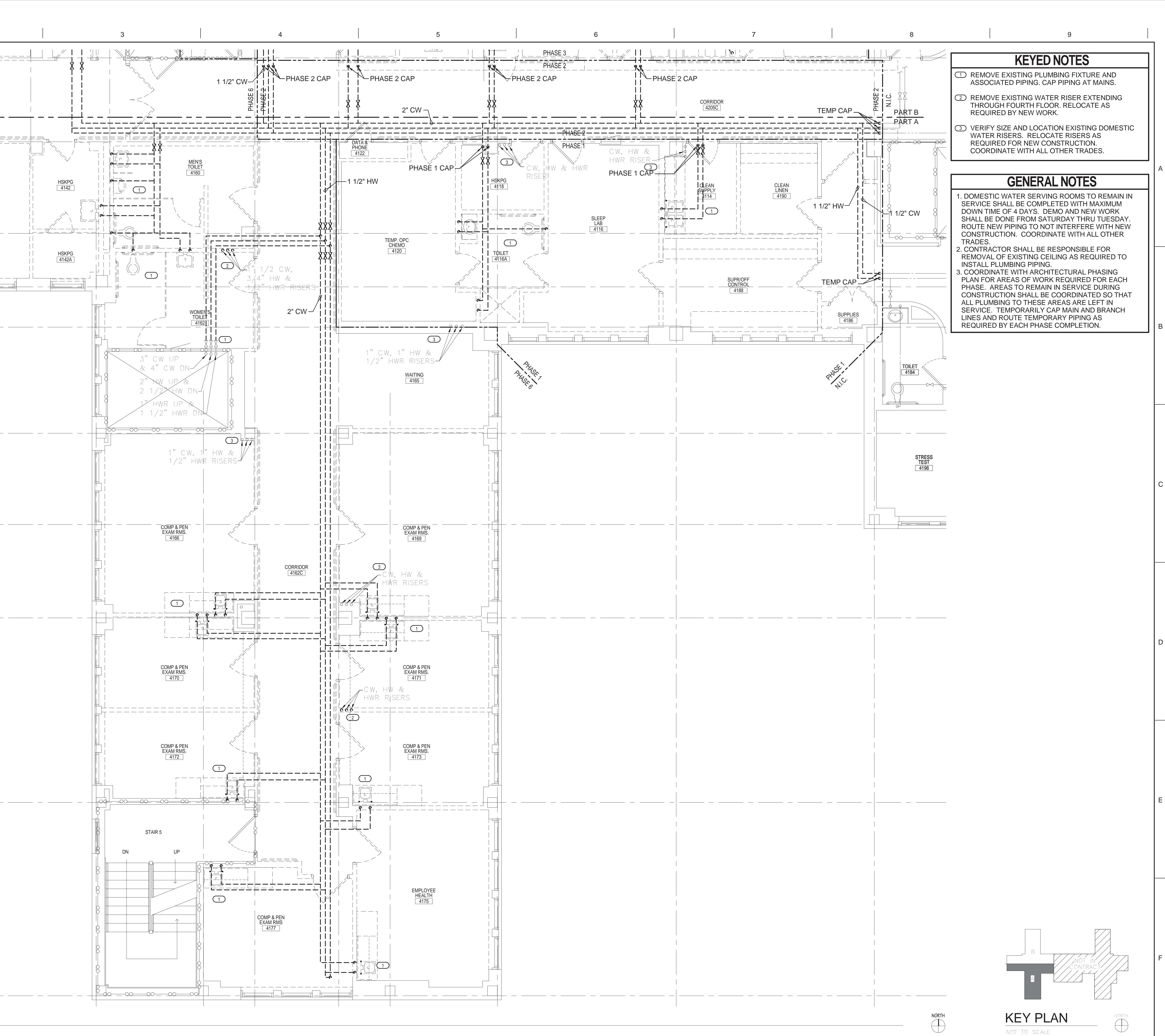
Drawing Number

PD300

Dwg 40 of 100

Office of
Construction
and Facilities
Management



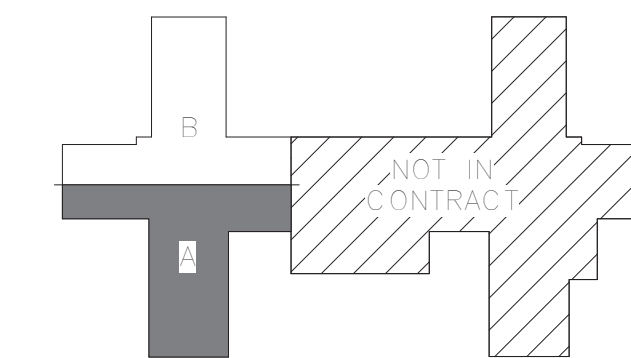


KEYED NOTES

- 1 REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP PIPING AT MAINS.
- 2 REMOVE EXISTING WATER RISER EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.
- 3 VERIFY SIZE AND LOCATION EXISTING DOMESTIC WATER RISERS. RELOCATE RISERS AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.

GENERAL NOTES

1. DOMESTIC WATER SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
3. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE. AREAS TO REMAIN IN SERVICE DURING CONSTRUCTION SHALL BE COORDINATED SO THAT ALL PLUMBING TO THESE AREAS ARE LEFT IN SERVICE. TEMPORARILY CAP MAIN AND BRANCH LINES AND ROUTE TEMPORARY PIPING AS REQUIRED BY EACH PHASE COMPLETION.



KEY PLAN

NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
**4TH FLOOR WATER PLUMBING
DEMOLITION PLAN – PART A**

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

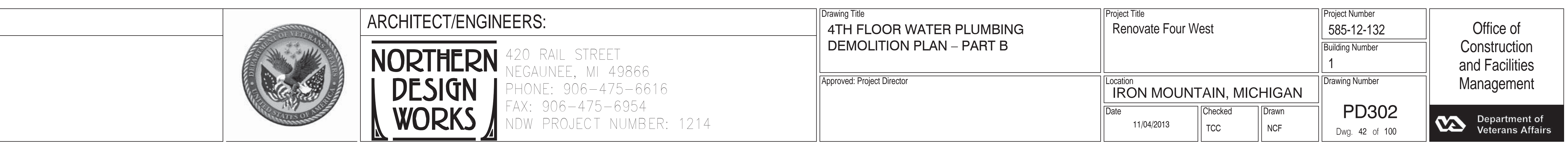
Building Number
1

Drawing Number
PD301

Dwg. 41 of 100

Office of
Construction
and Facilities
Management

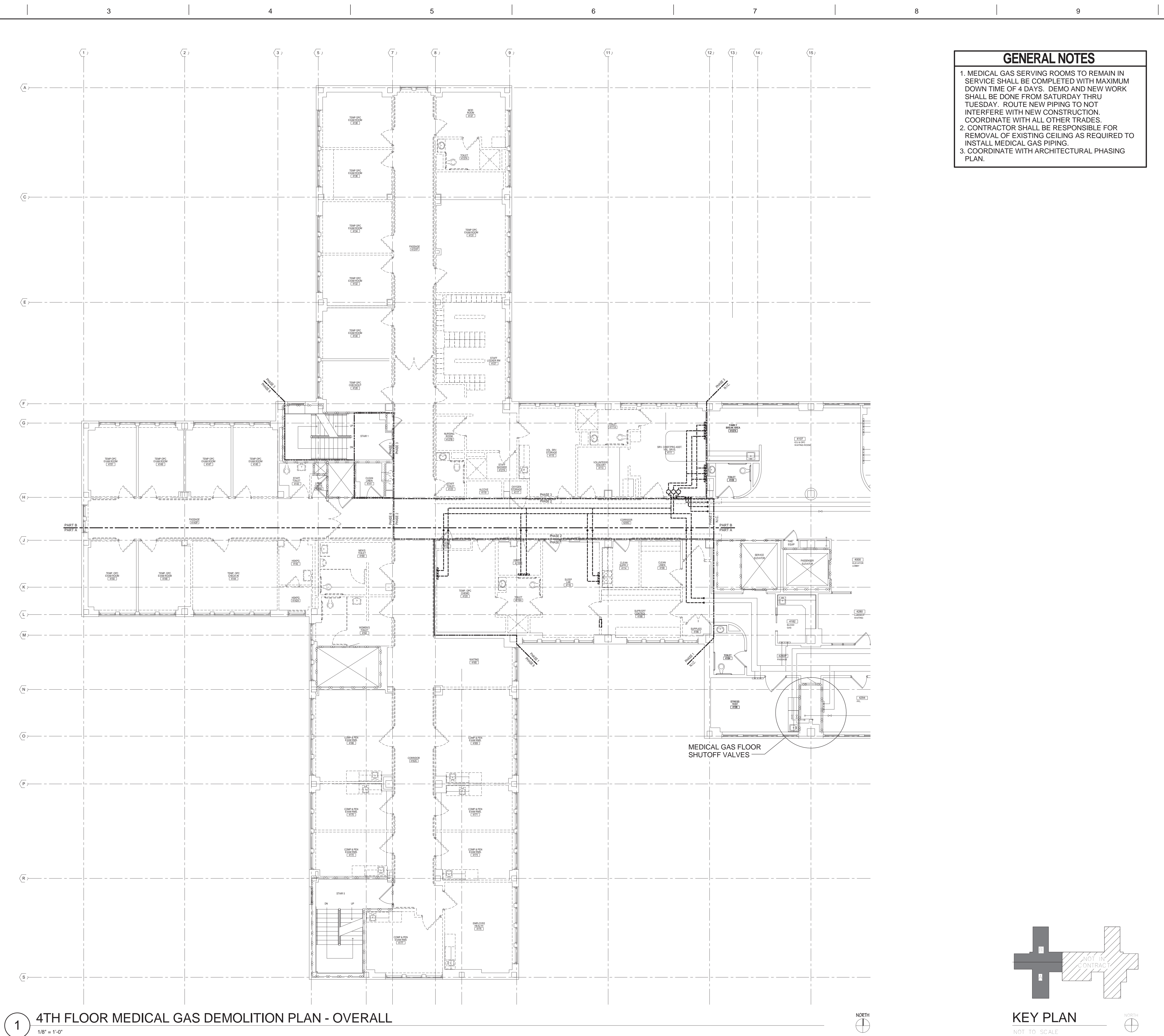






- ① REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP PIPING AT MAINS.
- ② REMOVE EXISTING WATER RISER EXTENDING THROUGH FOURTH FLOOR. RELOCATE AS REQUIRED BY NEW WORK.
- ③ VERIFY SIZE AND LOCATION EXISTING DOMESTIC WATER RISERS. RELOCATE RISERS AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.

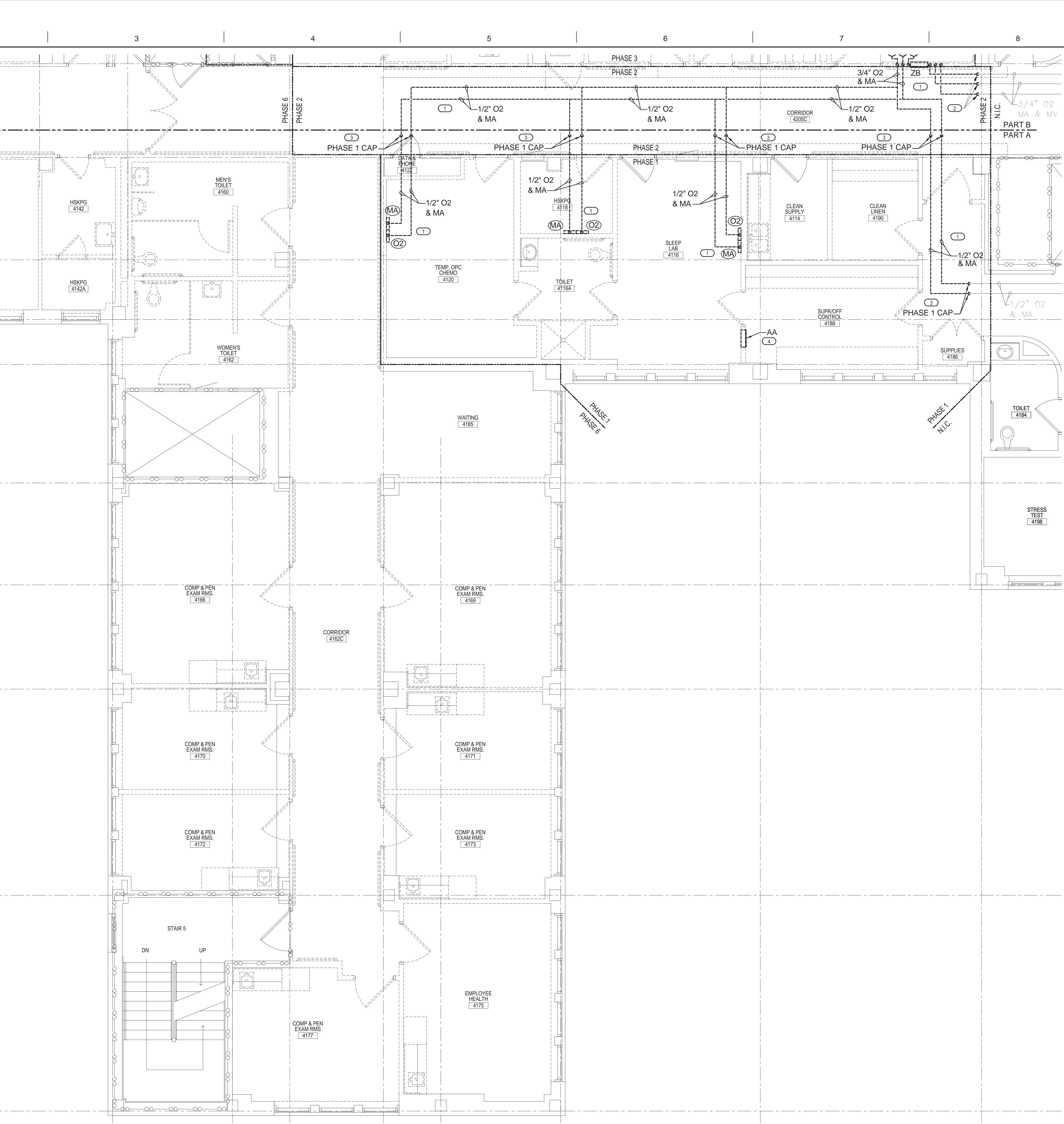
1. DOMESTIC WATER SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
3. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE. AREAS TO REMAIN IN SERVICE DURING CONSTRUCTION SHALL BE COORDINATED SO THAT ALL AREAS TO REMAIN IN SERVICE ARE IN SERVICE. TEMPORARILY CAP MAIN AND BRANCH LINES AND ROUTE TEMPORARY PIPING AS REQUIRED BY EACH PHASE COMPLETION.





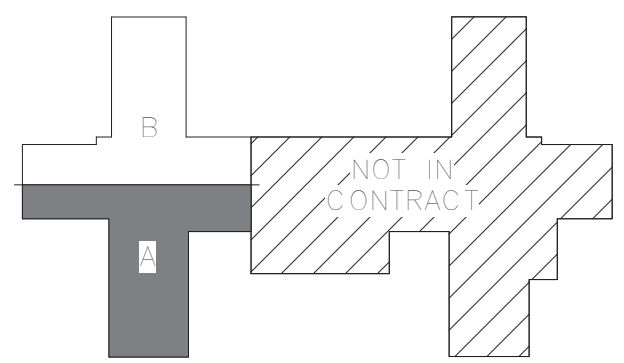
1 4TH FLOOR MEDICAL GAS DEMOLITION PLAN - OVERALL
1/8" = 1'-0"

	ARCHITECT/ENGINEERS: NORTHERN DESIGN WORKS 420 RAIL STREET NEGAUNEE, MI 49866 PHONE: 906-475-6616 FAX: 906-475-6954 NDW PROJECT NUMBER: 1214	Drawing Title 4TH FLOOR MEDICAL GAS DEMOLITION PLAN - OVERALL FOR REFERENCE ONLY Approved: Project Director	Project Title Renovate Four West Location IRON MOUNTAIN, MICHIGAN Date 11/04/2013 Checked TCC Drawn NCF	Project Number 585-12-132 Building Number 1 Drawing Number MGD100 Dwg. 43 of 100	Office of Construction and Facilities Management  Department of Veterans Affairs
-------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



- KEYED NOTES**
- 1 REMOVE EXISTING MEDICAL GAS PIPING, OUTLETS AND EQUIPMENT AS SHOWN DASHED AND BOLD.
 - 2 TEMPORARILY CAP O2 AND MA PIPING FOR CONNECTION DURING NEW CONSTRUCTION. PERMANLY CAP MV PIPING.
 - 3 CAP PIPING AS SHOWN DURING PHASE 1. REST OF PIPING SHALL BE REMOVED AS SHOWN DURING PHASE 2 AND 3.
 - 4 REMOVE AREA ALARM PANEL AND ASSOCIATED COMPONENTS.

- GENERAL NOTES**
- 1. MEDICAL GAS SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
 - 2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL MEDICAL GAS PIPING.
 - 3. COORDINATE WITH ARCHITECTURAL PHASING PLAN.



KEY PLAN
NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
**4TH FLOOR MEDICAL GAS
DEMOLITION PLAN - PART A**

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

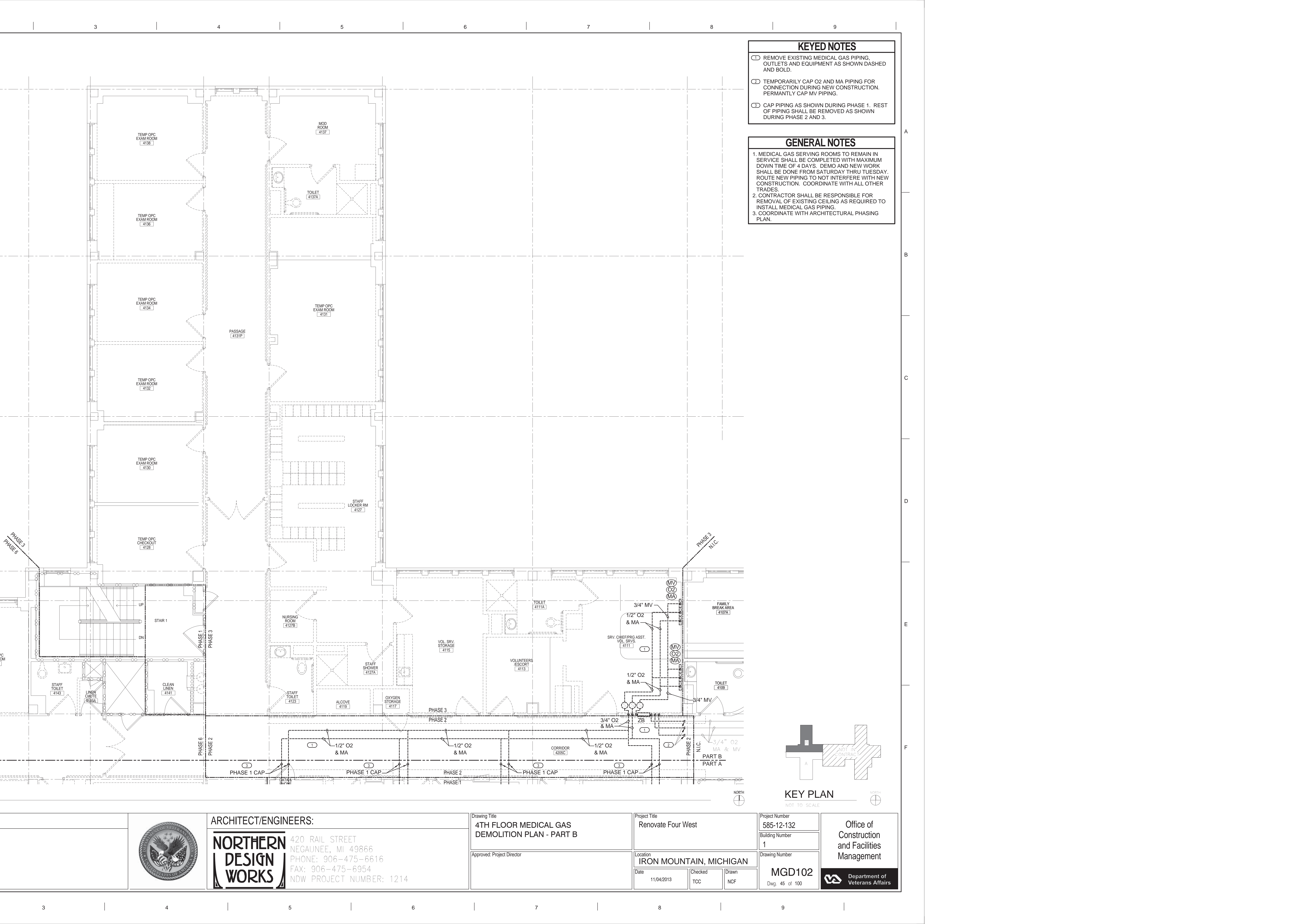
Building Number
1

Drawing Number
MGD101

Dwg. 44 of 100

Office of
Construction
and Facilities
Management





KEYED NOTES

- 1 REMOVE EXISTING MEDICAL GAS PIPING, OUTLETS AND EQUIPMENT AS SHOWN DASHED AND BOLD.
- 2 TEMPORARILY CAP O2 AND MA PIPING FOR CONNECTION DURING NEW CONSTRUCTION. PERMANTLY CAP MV PIPING.
- 3 CAP PIPING AS SHOWN DURING PHASE 1. REST OF PIPING SHALL BE REMOVED AS SHOWN DURING PHASE 2 AND 3.

GENERAL NOTES

1. MEDICAL GAS SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL MEDICAL GAS PIPING.
3. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

KEY PLAN

NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR MEDICAL GAS
DEMOLITION PLAN - PART B

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

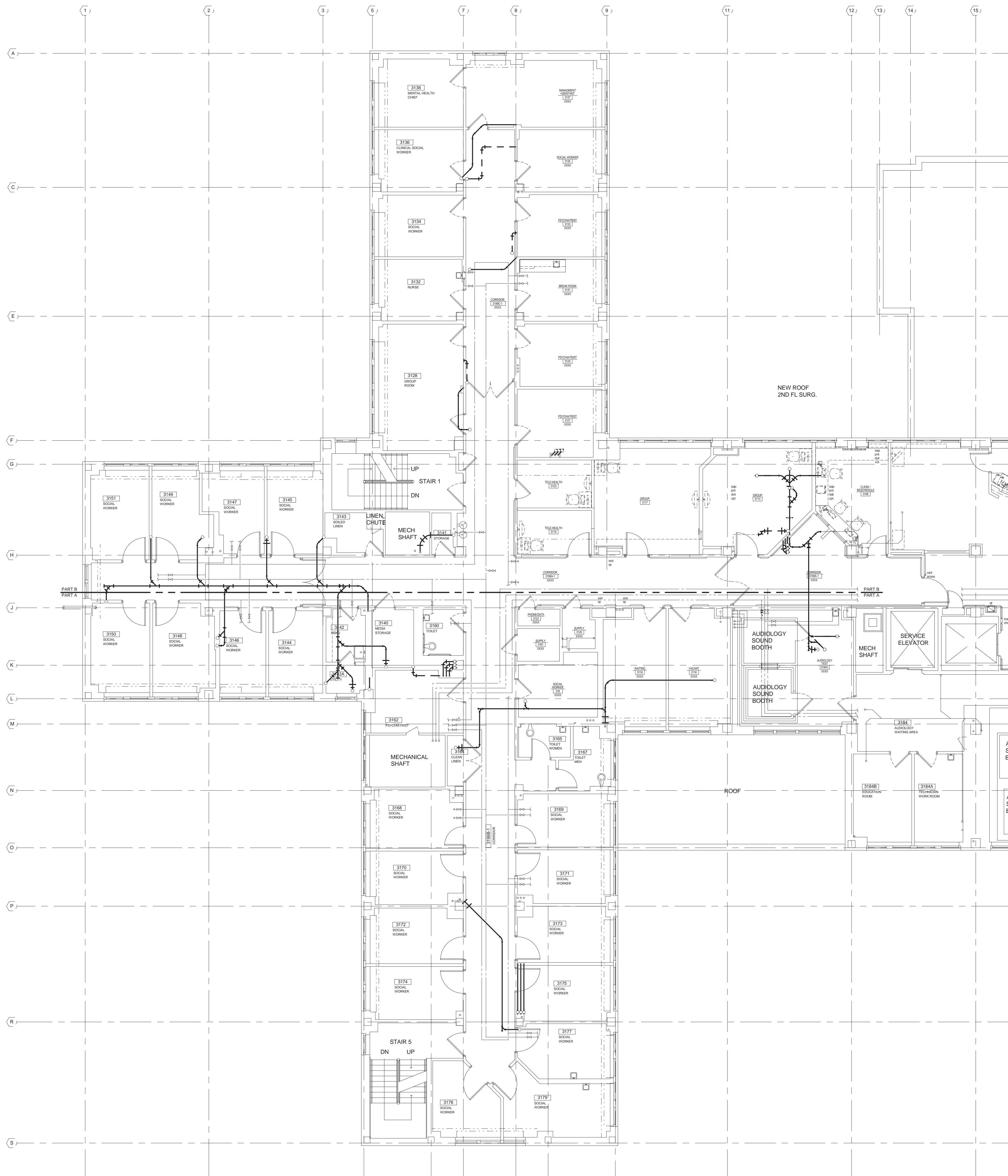
Building Number
1

Drawing Number
MGD102

Dwg. 45 of 100

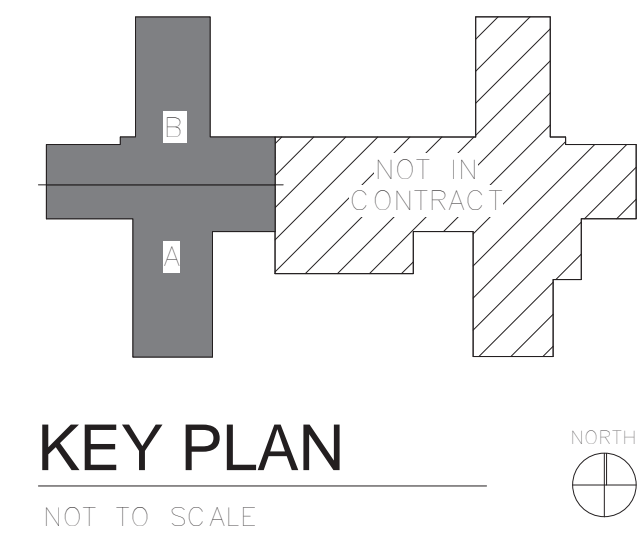
Office of
Construction
and Facilities
Management





- GENERAL NOTES**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
 2. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

1 3RD FLOOR PLUMBING PLAN - OVERALL
1/8" = 1'-0"



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
3RD FLOOR PLUMBING PLAN -
OVERALL FOR REFERENCE ONLY

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

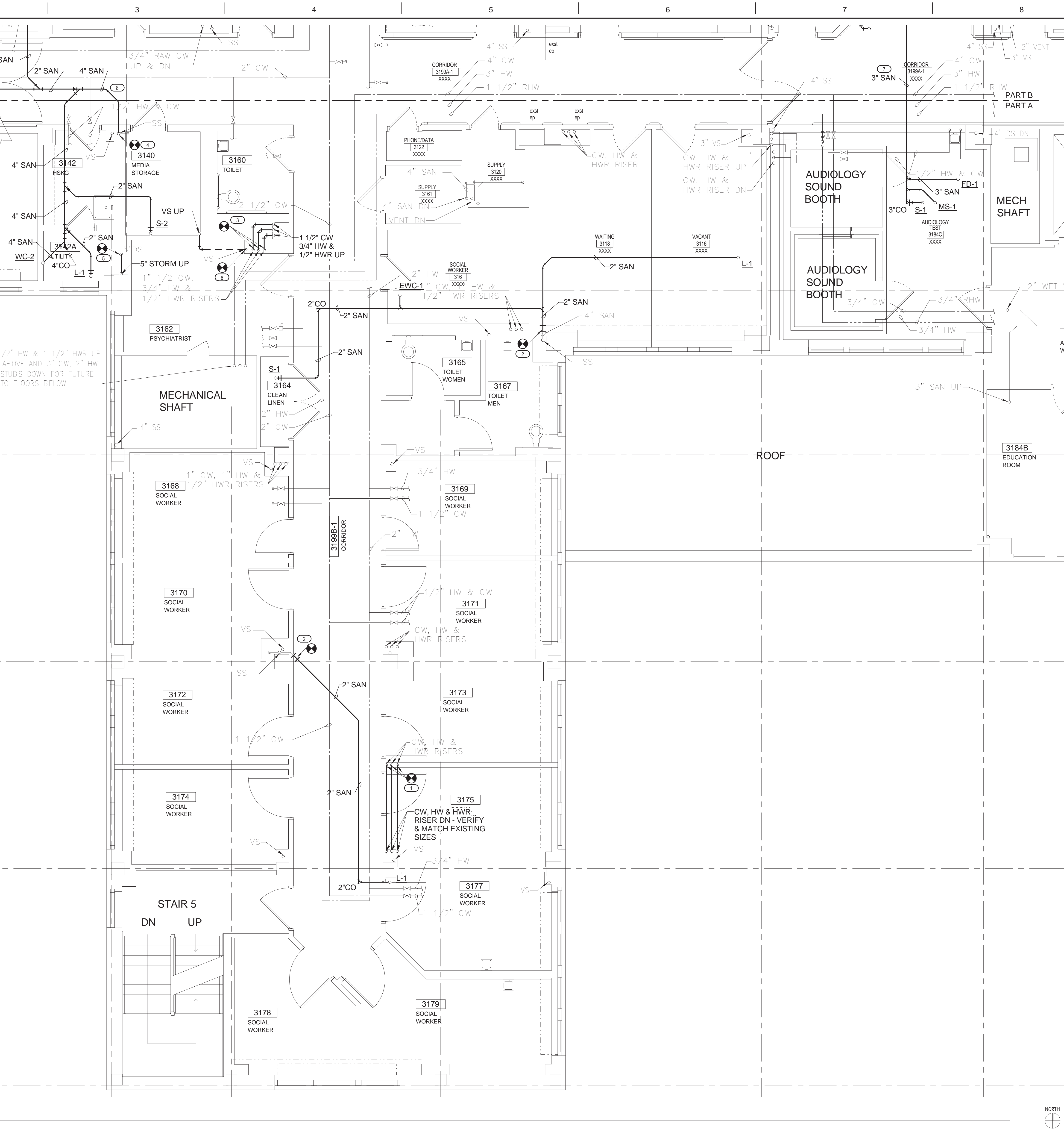
Drawn
NCF

Project Number
585-12-132
Building Number
1

Drawing Number
PL100
Dwg. 46 of 100

Office of
Construction
and Facilities
Management





- KEYED NOTES**
- 1

CONNECT NEW CW, HW AND HWR PIPING TO EXISTING RISERS DOWN. VERIFY SIZE AND LOCATION OF EXISTING RISERS.
- 2

CONNECT NEW 2" SAN TO EXISTING 4" SAN AT STACK.
- 3

CONNECT NEW 1 1/2" CW, 3/4" HW AND 1/2" HWR PIPING TO EXISTING RISERS DOWN.
- 4

CONNECT NEW 4" SAN TO EXISTING 4" SANITARY STACK.
- 5

CONNECT RELOCATED 5" STORM PIPING TO EXISTING 5" STORM PIPING DOWN.
- 6

CONNECT RELOCATED VENT STACK TO EXISTING VENT STACK DOWN. VERIFY SIZE AND LOCATION OF EXISTING VENT STACK.
- 7

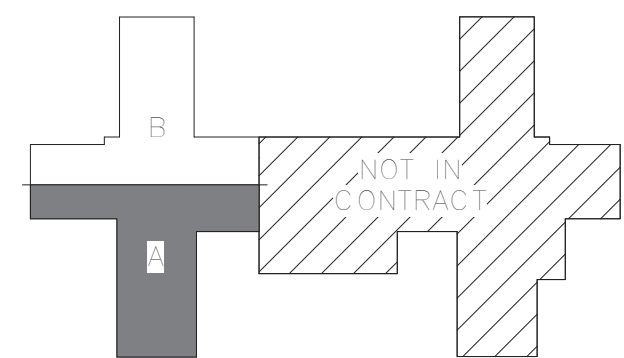
COORDINATE ROUTING OF NEW 3" SANITARY MAIN WITH ALL OTHER TRADES.
- 8

ROUTE ALL PIPING IN CORRIDORS TO NOT INTERFERE WITH OTHER TRADES. VERIFY EXISTING CONDITIONS.

- GENERAL NOTES**
- 1

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
- 2

COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.



KEY PLAN
NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
3RD FLOOR PLUMBING PLAN - PART A

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

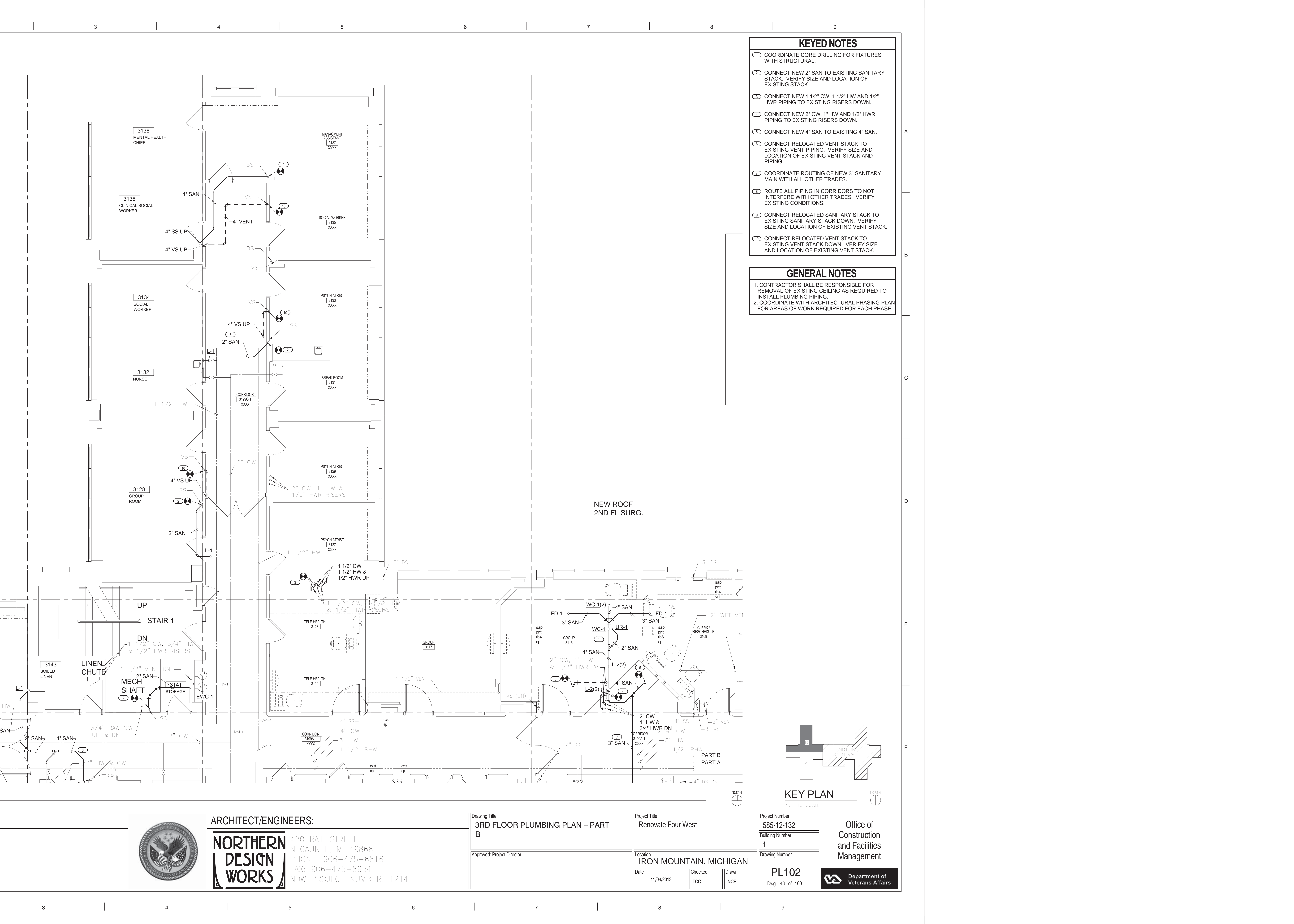
Drawn
NCF

Project Number
585-12-132
Building Number
1

Drawing Number
PL101
Dwg. 47 of 100

Office of
Construction
and Facilities
Management





KEYED NOTES

- 1. COORDINATE CORE DRILLING FOR FIXTURES WITH STRUCTURAL.
- 2. CONNECT NEW 2" SAN TO EXISTING SANITARY STACK. VERIFY SIZE AND LOCATION OF EXISTING STACK.
- 3. CONNECT NEW 1 1/2" CW, 1 1/2" HW AND 1/2" HWR PIPING TO EXISTING RISERS DOWN.
- 4. CONNECT NEW 2" CW, 1" HW AND 1/2" HWR PIPING TO EXISTING RISERS DOWN.
- 5. CONNECT NEW 4" SAN TO EXISTING 4" SAN.
- 6. CONNECT RELOCATED VENT STACK TO EXISTING VENT PIPING. VERIFY SIZE AND LOCATION OF EXISTING VENT STACK AND PIPING.
- 7. COORDINATE ROUTING OF NEW 3" SANITARY MAIN WITH ALL OTHER TRADES.
- 8. ROUTE ALL PIPING IN CORRIDORS TO NOT INTERFERE WITH OTHER TRADES. VERIFY EXISTING CONDITIONS.
- 9. CONNECT RELOCATED SANITARY STACK TO EXISTING SANITARY STACK DOWN. VERIFY SIZE AND LOCATION OF EXISTING VENT STACK.
- 10. CONNECT RELOCATED VENT STACK TO EXISTING VENT STACK DOWN. VERIFY SIZE AND LOCATION OF EXISTING VENT STACK.

GENERAL NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
- 2. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.

KEY PLAN

NOT TO SCALE

ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
3RD FLOOR PLUMBING PLAN - PART B

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

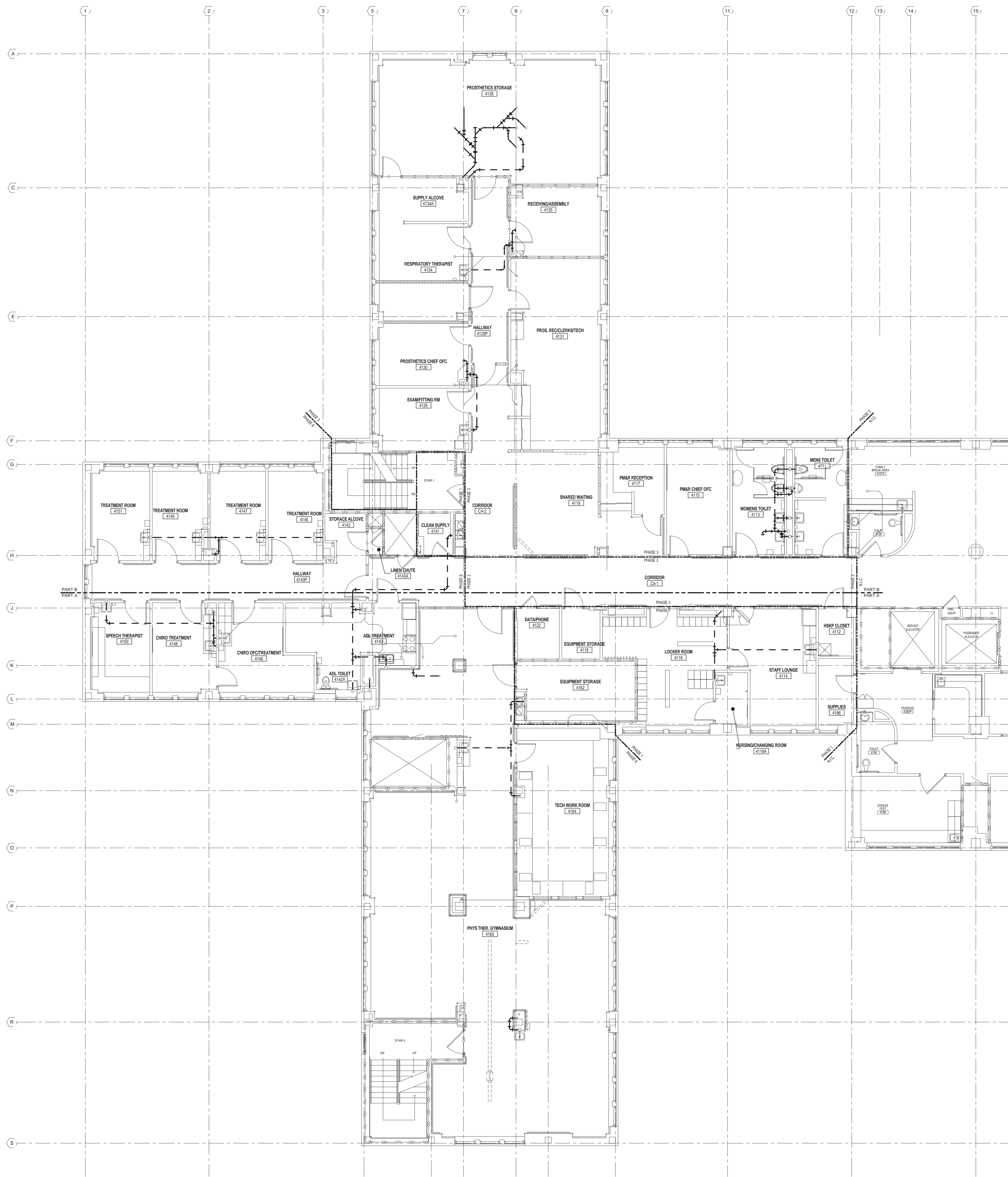
Building Number
1

Drawing Number
PL102

Dwg. 48 of 100

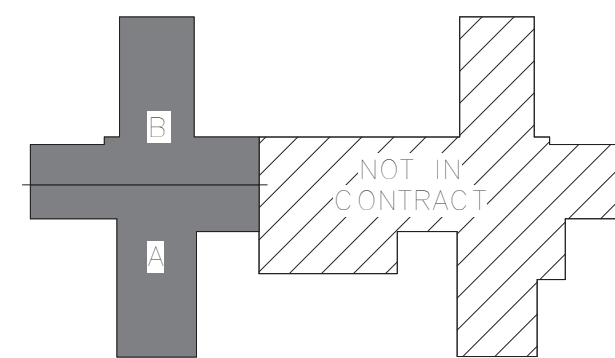
Office of
Construction
and Facilities
Management





- GENERAL NOTES**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
 2. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

1 4TH FLOOR WASTE PLUMBING PLAN - OVERALL



KEY PLAN



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR WASTE PLUMBING PLAN
- OVERALL FOR REFERENCE ONLY

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

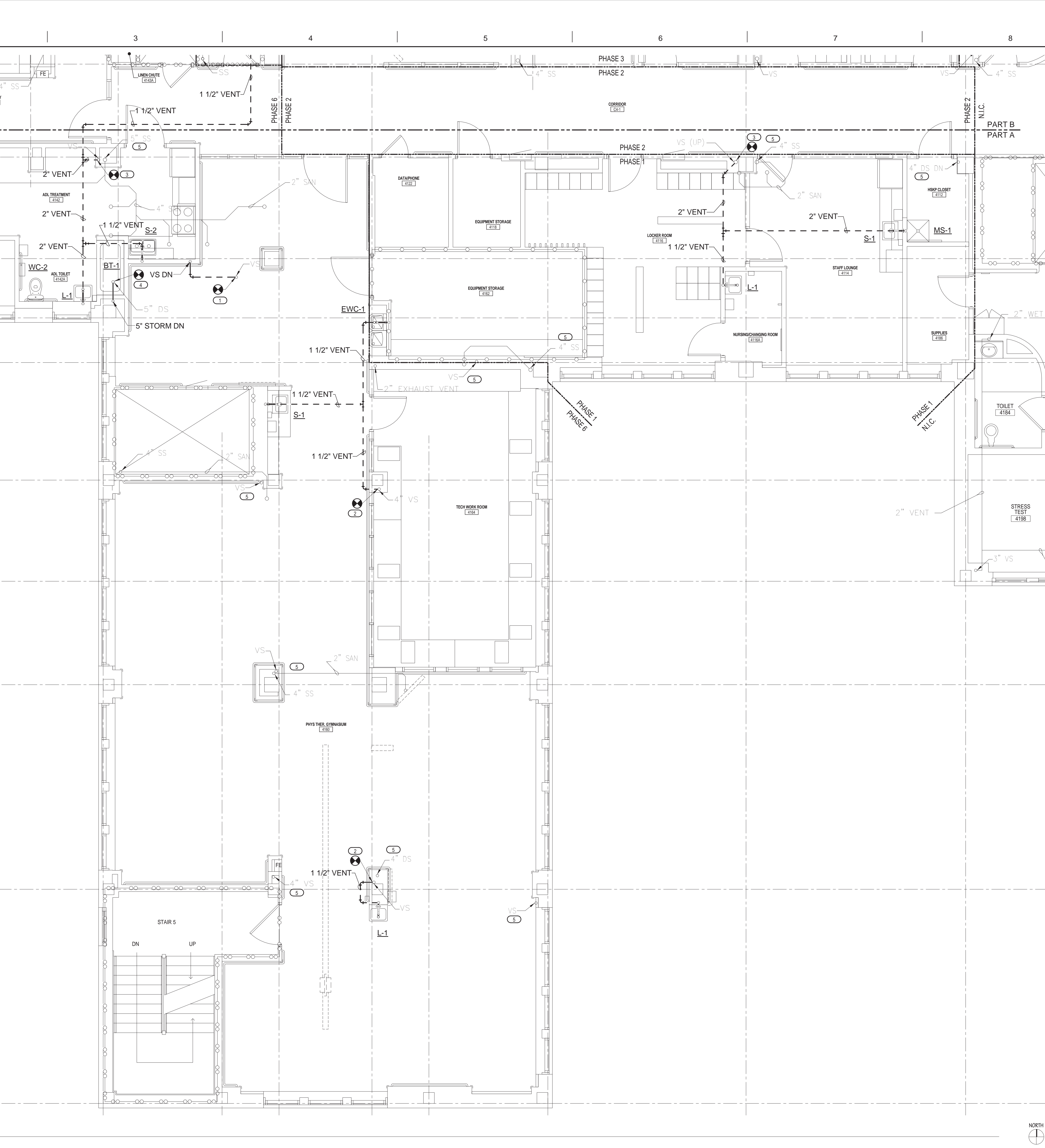
Drawn
NCF

Project Number
585-12-132
Building Number
1

Drawing Number
PL200
Dwg. 49 of 100

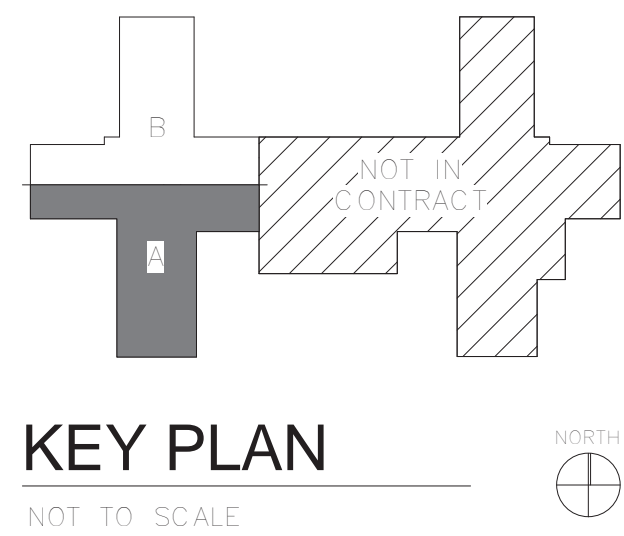
Office of
Construction
and Facilities
Management





- KEYED NOTES**
- 1. CONNECT RELOCATED VENT STACK TO EXISTING VENT STACK UP. VERIFY SIZE AND LOCATION OF EXISTING VENT STACK.
 - 2. CONNECT NEW 1 1/2" VENT TO EXISTING VENT STACK.
 - 3. CONNECT NEW 2" VENT TO EXISTING VENT STACK.
 - 4. CONNECT RELOCATED 5" STORM PIPING TO EXISTING 5" STORM PIPING UP.
 - 5. VERIFY SIZE AND LOCATION EXISTING STORM, SANITARY AND VENT STACKS. RELOCATE STACKS AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.

- GENERAL NOTES**
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
**4TH FLOOR WASTE PLUMBING PLAN
- PART A**

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

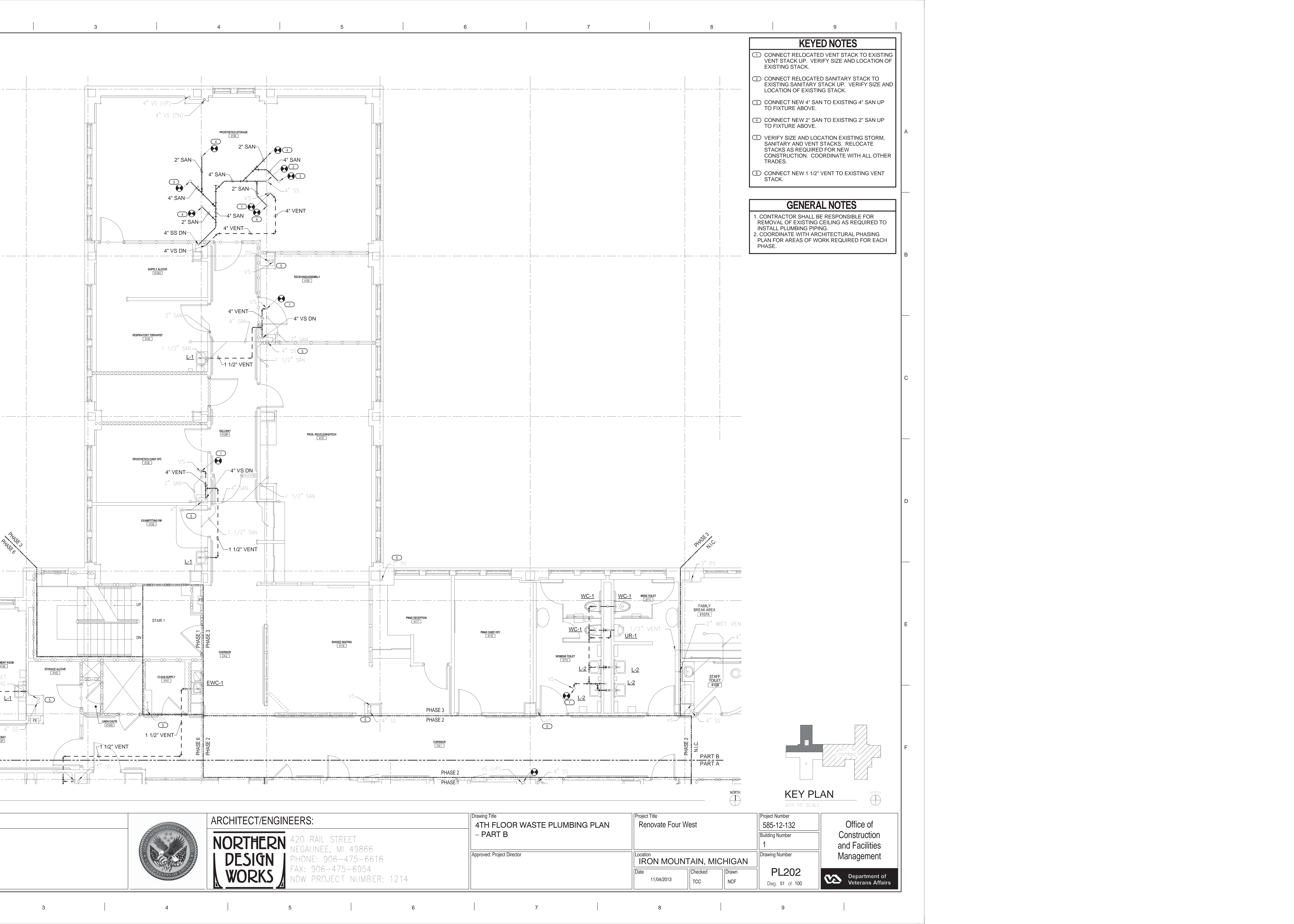
Building Number
1

Drawing Number
PL201

Dwg. 50 of 100

Office of
Construction
and Facilities
Management





KEYED NOTES

- 1. CONNECT RELOCATED VENT STACK TO EXISTING VENT STACK UP. VERIFY SIZE AND LOCATION OF EXISTING STACK.
- 2. CONNECT RELOCATED SANITARY STACK TO EXISTING SANITARY STACK UP. VERIFY SIZE AND LOCATION OF EXISTING STACK.
- 3. CONNECT NEW 4" SAN TO EXISTING 4" SAN UP TO FIXTURE ABOVE.
- 4. CONNECT NEW 2" SAN TO EXISTING 2" SAN UP TO FIXTURE ABOVE.
- 5. VERIFY SIZE AND LOCATION EXISTING STORM, SANITARY AND VENT STACKS. RELOCATE STACKS AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
- 6. CONNECT NEW 1 1/2" VENT TO EXISTING VENT STACK.

GENERAL NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
- 2. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.

KEY PLAN

NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR WASTE PLUMBING PLAN
- PART B

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

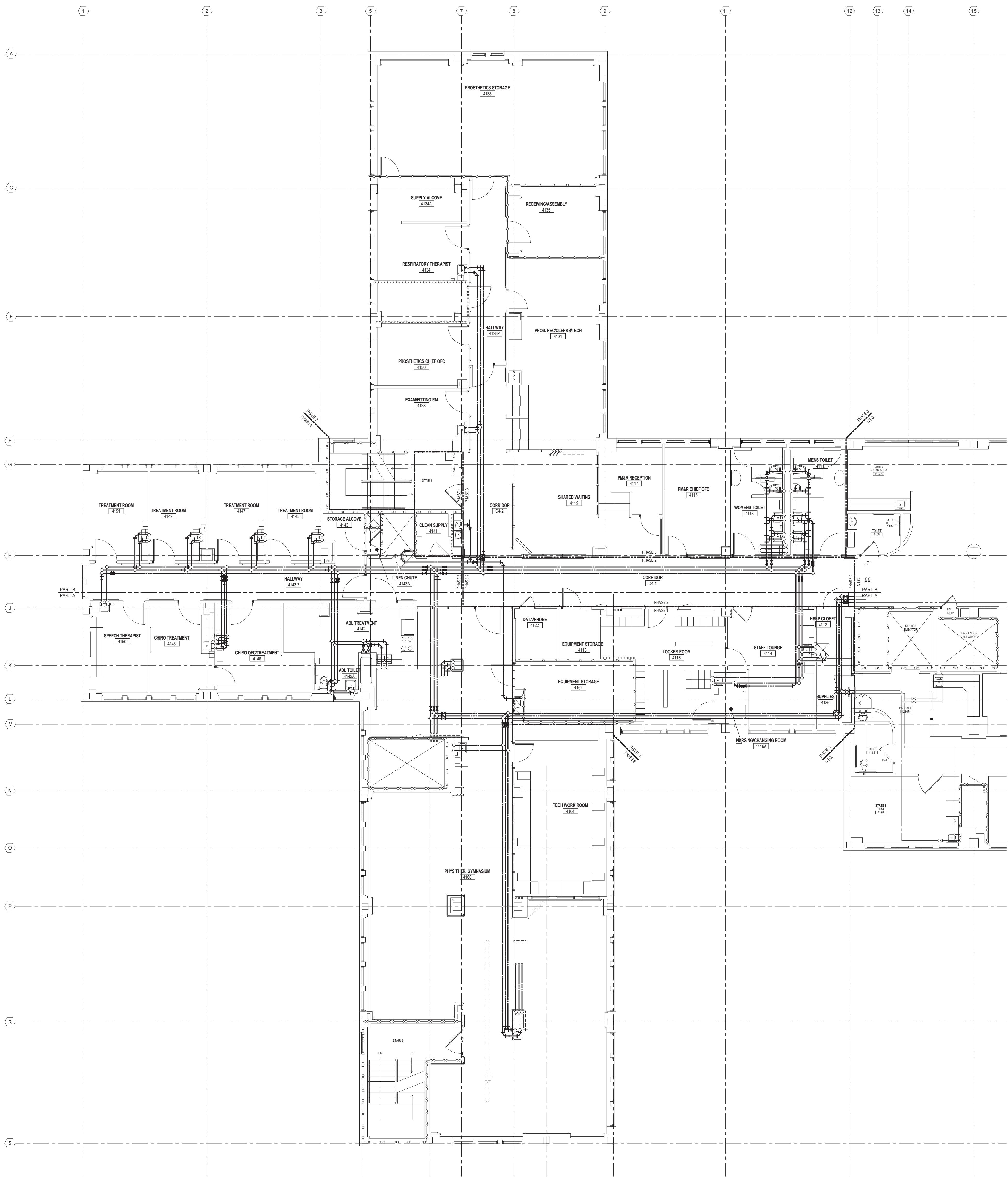
Building Number
1

Drawing Number
PL202

Dwg. 51 of 100

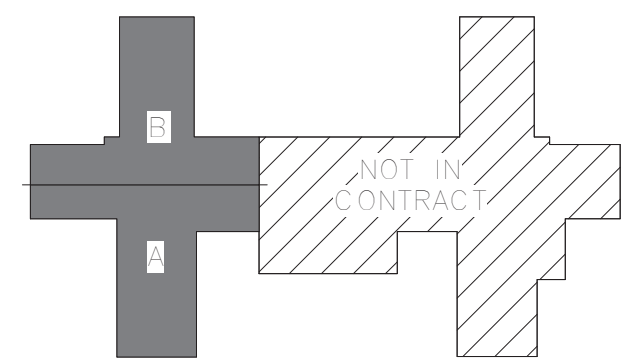
Office of
Construction
and Facilities
Management





- GENERAL NOTES**
1. DOMESTIC WATER SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
 2. SET ALL CIRCUIT SETTERS TO 0.5 GPM.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
 4. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

1 4TH FLOOR WATER PLUMBING PLAN - OVERALL
1/8" = 1'-0"



KEY PLAN
NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR WATER PLUMBING PLAN
- OVERALL FOR REFERENCE ONLY

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

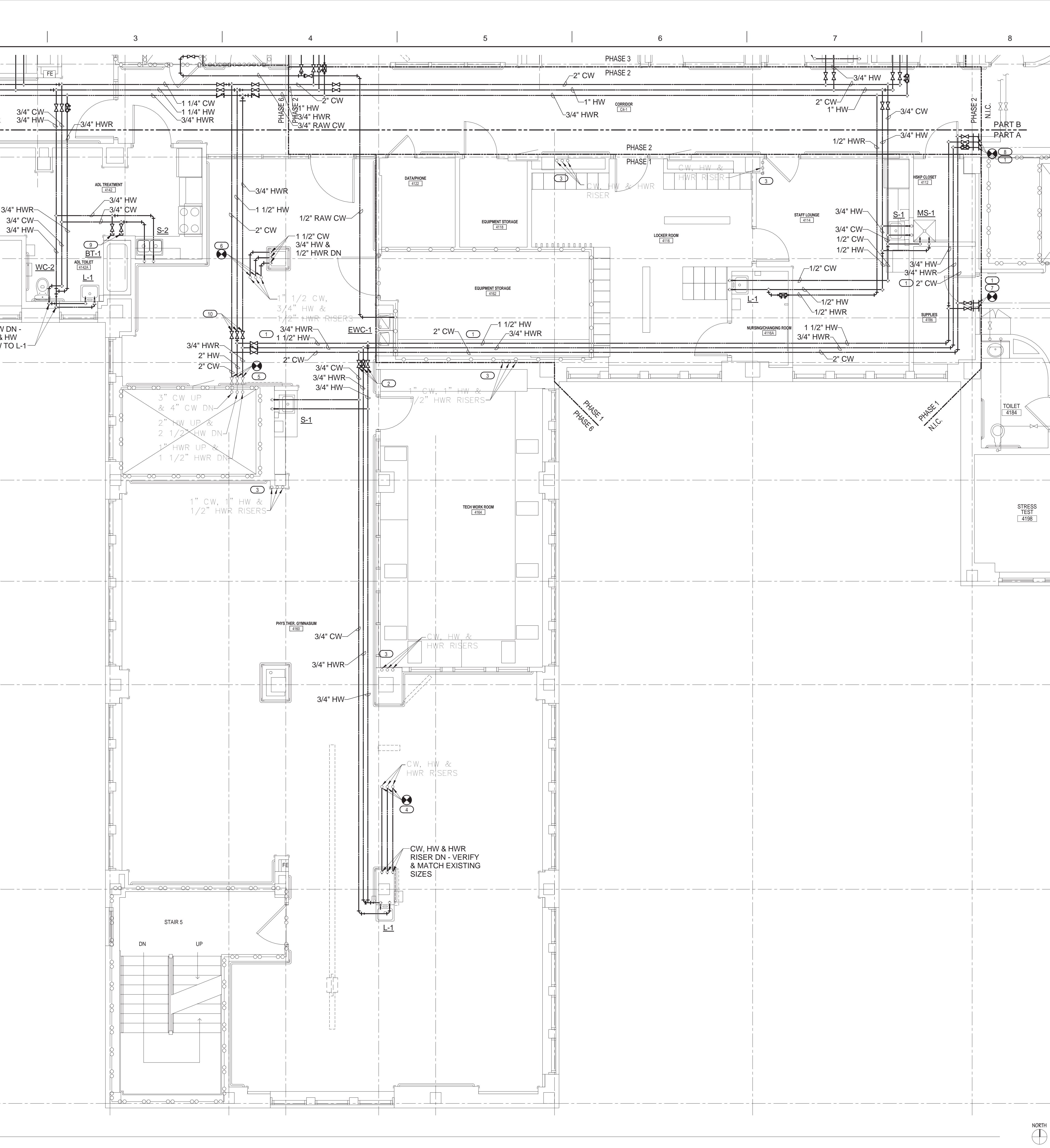
Building Number
1

Drawing Number
PL300

Dwg. 52 of 100

Office of
Construction
and Facilities
Management





KEYED NOTES

- 1. DOMESTIC WATER SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
- 2. PROVIDE 3/4" HW, CW AND HWR WITH CIRCUIT SETTER, SHUTOFF VALVES AND CAPS DURING WORK DONE TO CONNECT NEW WATER TO EXISTING ROOMS TO REMAIN IN SERVICE. CONNECT NEW PIPING TO SERVE SINKS IN GYM DURING NEW CONSTRUCTION.
- 3. VERIFY SIZE AND LOCATION EXISTING DOMESTIC WATER RISERS. RELOCATE RISERS AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
- 4. RELOCATE DOMESTIC WATER RISERS AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW HWR, CW, AND HW TO EXISTING RISERS UP. VERIFY SIZE OF EXISTING RISERS.
- 5. CONNECT NEW 2" CW, 2" HW, AND 3/4" HWR SERVICE TO EXISTING WATER SERVICE STUBBED AND CAPPED AT CHASE.
- 6. RELOCATE DOMESTIC WATER RISERS AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW 1/2" HWR, 1 1/2" CW, AND 3/4" HW TO EXISTING RISERS UP.
- 7. CONNECT NEW 1 1/2" HW & CW TO EXISTING 1 1/2" HW & CW.
- 8. CONNECT NEW 2" CW, 3/4" HW AND 3/4" HWR TO EXISTING WATER MAINS IN CORRIDOR.
- 9. PROVIDE 1/2" HW & CW WITH SHUTOFF VALVE AND CAP FOR FUTURE CONNECTION TO BATH TUB. BATH TUB SHALL NOT BE CONNECTED TO DOMESTIC WATER AND SANITARY WASTE, AND IS USED AS PROP ONLY.
- 10. PROVIDE 2" HW, 2" CW AND 3/4" HWR WITH SHUTOFF VALVES AND CAPS DURING WORK DONE TO CONNECT NEW WATER TO EXISTING ROOMS TO REMAIN IN SERVICE. CONNECT NEW PIPING TO SERVE 4 WEST DURING NEW CONSTRUCTION.

GENERAL NOTES

- 1. SET ALL CIRCUIT SETTERS TO 0.5 GPM.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
- 3. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.

KEY PLAN

NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR WATER PLUMBING PLAN
- PART A

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

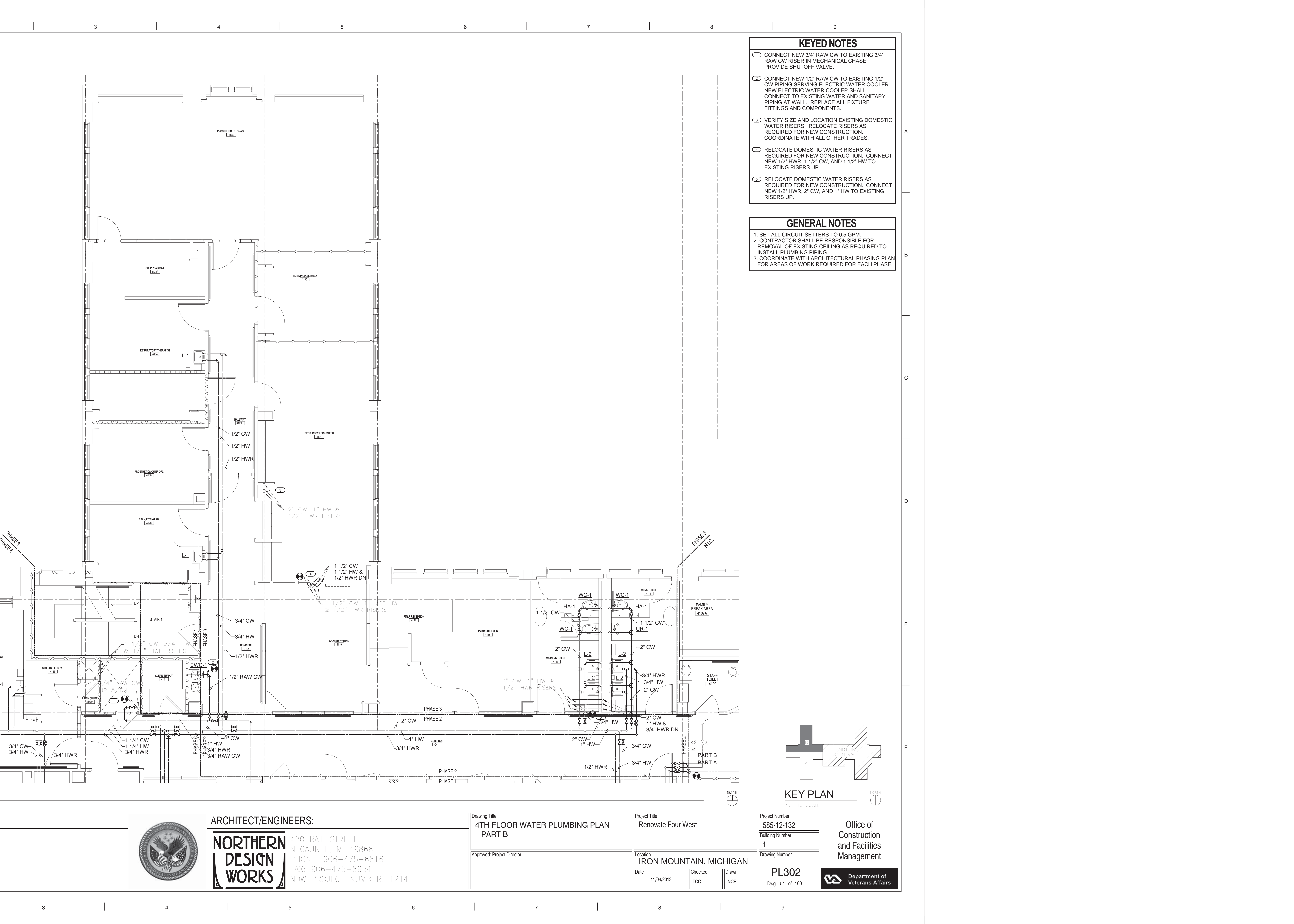
Building Number
1

Drawing Number
PL301

Dwg. 53 of 100

Office of
Construction
and Facilities
Management





KEYED NOTES

- 1. CONNECT NEW 3/4" RAW CW TO EXISTING 3/4" RAW CW RISER IN MECHANICAL CHASE. PROVIDE SHUTOFF VALVE.
- 2. CONNECT NEW 1/2" RAW CW TO EXISTING 1/2" CW PIPING SERVING ELECTRIC WATER COOLER. NEW ELECTRIC WATER COOLER SHALL CONNECT TO EXISTING WATER AND SANITARY PIPING AT WALL. REPLACE ALL FIXTURE FITTINGS AND COMPONENTS.
- 3. VERIFY SIZE AND LOCATION EXISTING DOMESTIC WATER RISERS. RELOCATE RISERS AS REQUIRED FOR NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
- 4. RELOCATE DOMESTIC WATER RISERS AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW 1/2" HWR, 1 1/2" CW, AND 1 1/2" HW TO EXISTING RISERS UP.
- 5. RELOCATE DOMESTIC WATER RISERS AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW 1/2" HWR, 2" CW, AND 1" HW TO EXISTING RISERS UP.

GENERAL NOTES

- 1. SET ALL CIRCUIT SETTERS TO 0.5 GPM.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL PLUMBING PIPING.
- 3. COORDINATE WITH ARCHITECTURAL PHASING PLAN FOR AREAS OF WORK REQUIRED FOR EACH PHASE.

KEY PLAN

NOT TO SCALE



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
4TH FLOOR WATER PLUMBING PLAN
- PART B

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

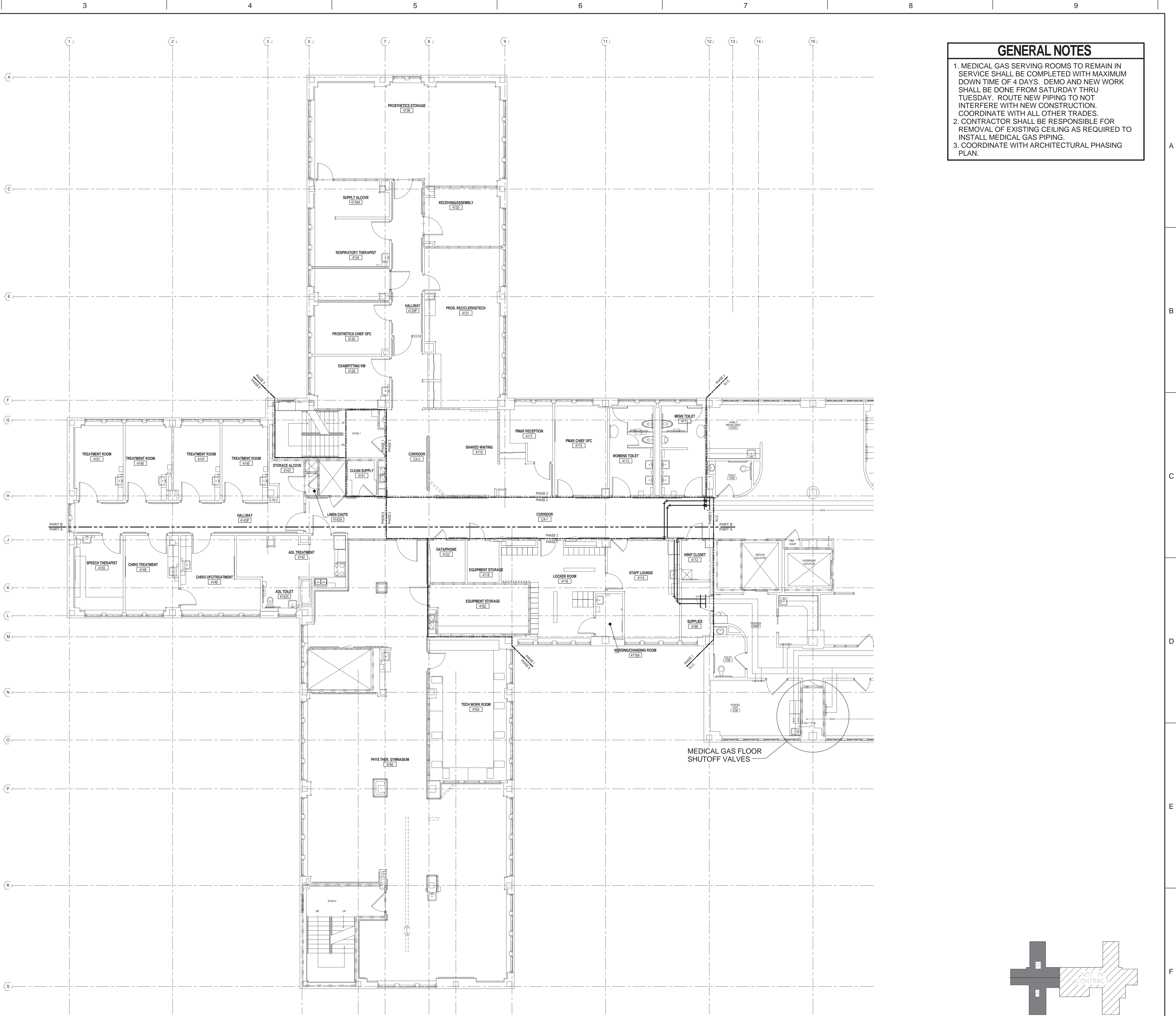
Building Number
1

Drawing Number
PL302

Dwg. 54 of 100

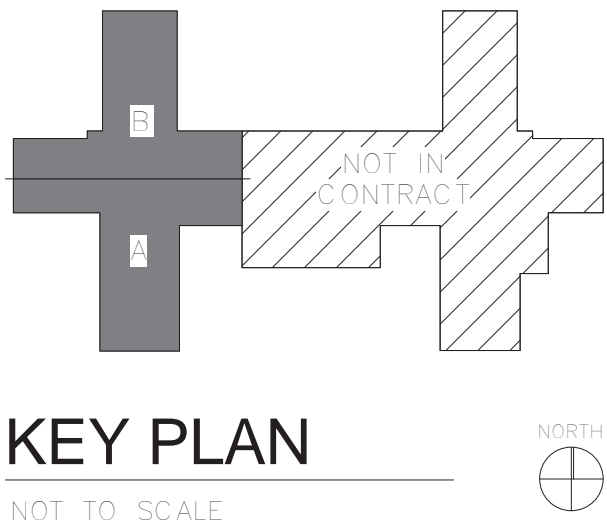
Office of
Construction
and Facilities
Management





- GENERAL NOTES**
1. MEDICAL GAS SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL MEDICAL GAS PIPING.
 3. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

1 4TH FLOOR MEDICAL GAS PLAN - OVERALL
1/8" = 1'-0"



ARCHITECT/ENGINEERS:



420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
**4TH FLOOR MEDICAL GAS PLAN -
OVERALL FOR REFERENCE ONLY**

Approved: Project Director

Project Title
Renovate Four West

Location
IRON MOUNTAIN, MICHIGAN

Date
11/04/2013

Checked
TCC

Drawn
NCF

Project Number
585-12-132

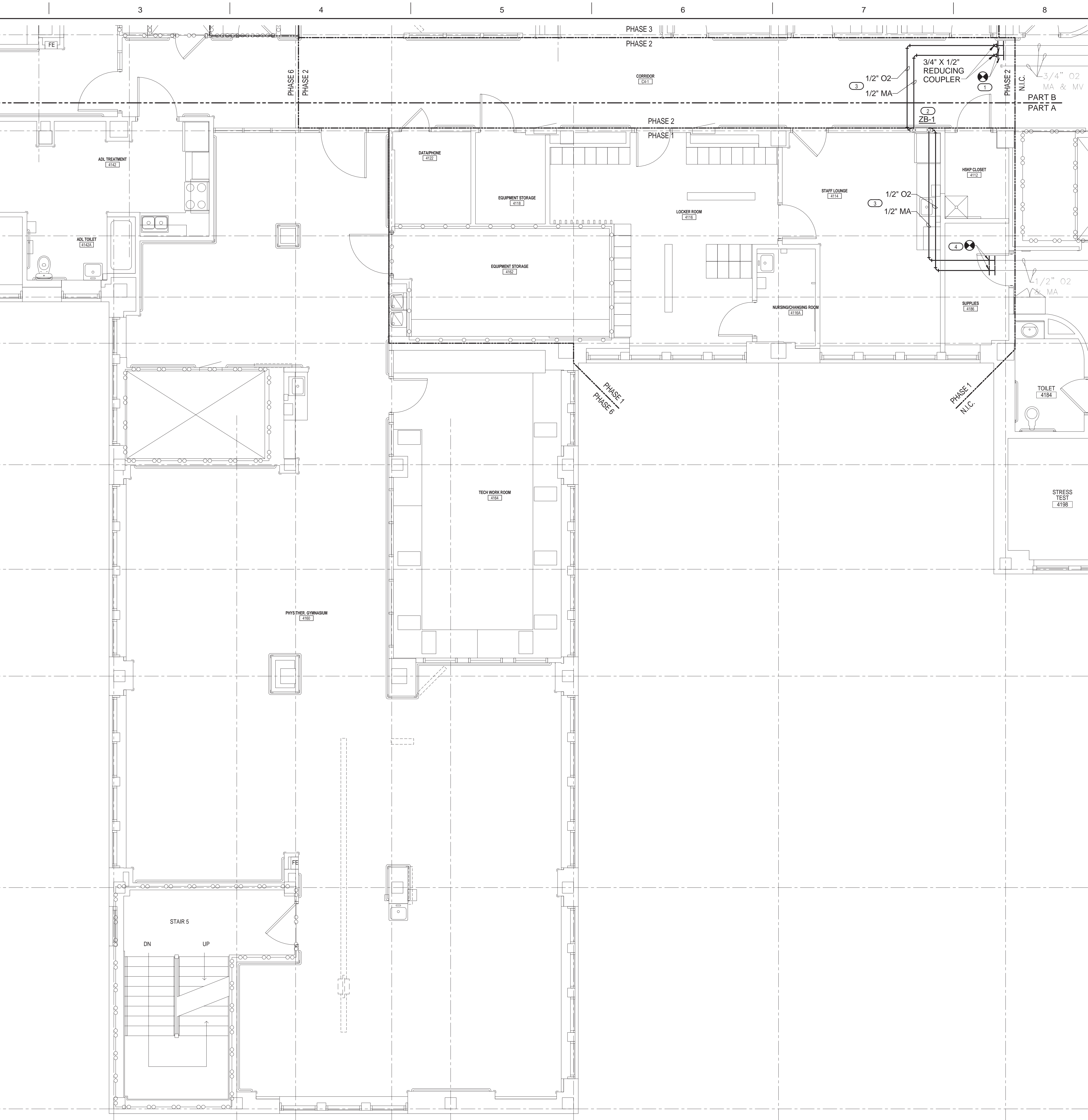
Building Number
1

Drawing Number
MG100

Dwg. 55 of 100

Office of
Construction
and Facilities
Management





KEYED NOTES



- 1. CONNECT NEW 3/4" O2 AND 3/4" MA TO EXISTING 3/4" O2 AND 3/4" MA.
- 2. PROVIDE NEW ZONE VALVE BOX IN EXISTING WALL. COORDINATE LOCATION AND PATCHING AND REPAIRING OF EXISTING WALL WITH ARCHITECT. SEE SCHEDULE ON PL001.
- 3. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
- 4. CONNECT NEW 1/2" O2 AND 1/2" MA TO EXISTING 1/2" O2 AND 1/2" MA.

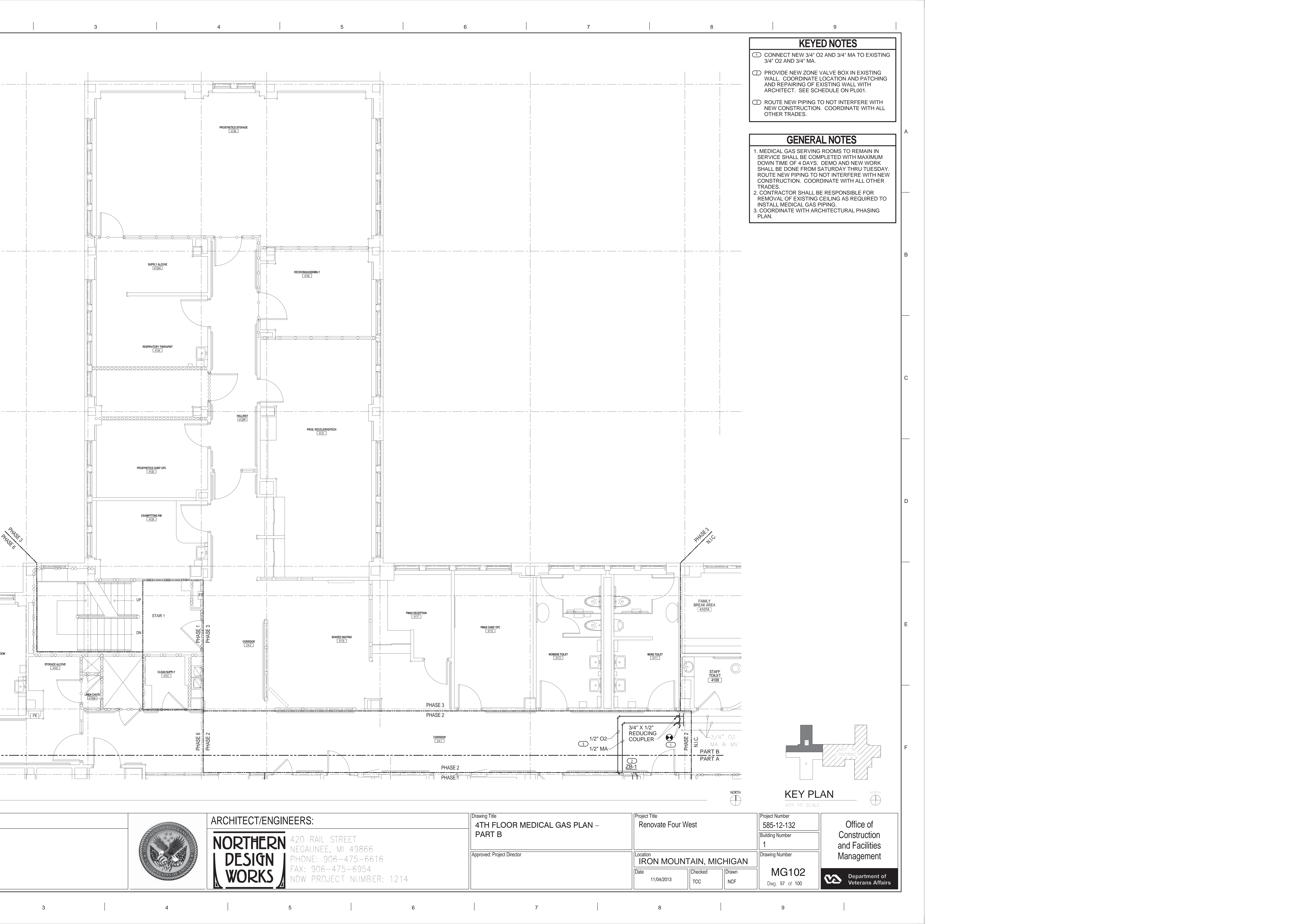
GENERAL NOTES

- 1. MEDICAL GAS SERVING ROOMS TO REMAIN IN SERVICE SHALL BE COMPLETED WITH MAXIMUM DOWN TIME OF 4 DAYS. DEMO AND NEW WORK SHALL BE DONE FROM SATURDAY THRU TUESDAY. ROUTE NEW PIPING TO NOT INTERFERE WITH NEW CONSTRUCTION. COORDINATE WITH ALL OTHER TRADES.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING CEILING AS REQUIRED TO INSTALL MEDICAL GAS PIPING.
- 3. COORDINATE WITH ARCHITECTURAL PHASING PLAN.

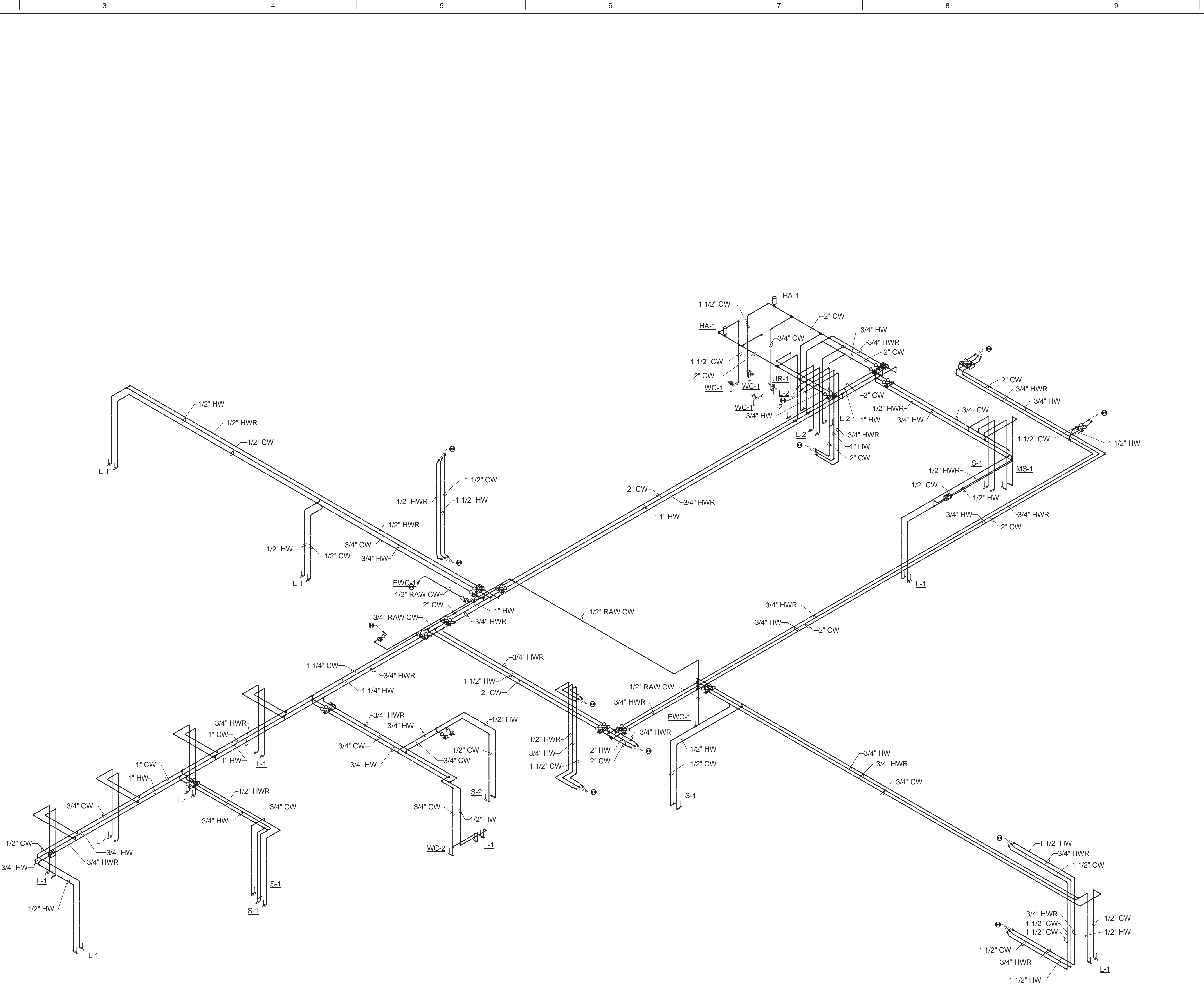
KEY PLAN

NOT TO SCALE



	ARCHITECT/ENGINEERS: NORTHERN DESIGN WORKS 420 RAIL STREET NEGAUNEE, MI 49866 PHONE: 906-475-6616 FAX: 906-475-6954 NDW PROJECT NUMBER: 1214	Drawing Title 4TH FLOOR MEDICAL GAS PLAN – PART A		Project Title Renovate Four West		Project Number 585-12-132		<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>	
		Approved: Project Director		Location IRON MOUNTAIN, MICHIGAN		Building Number 1			
				Date 11/04/2013	Checked TCC	Drawn NCF	Drawing Number MG101 Dwg. 56 of 100		

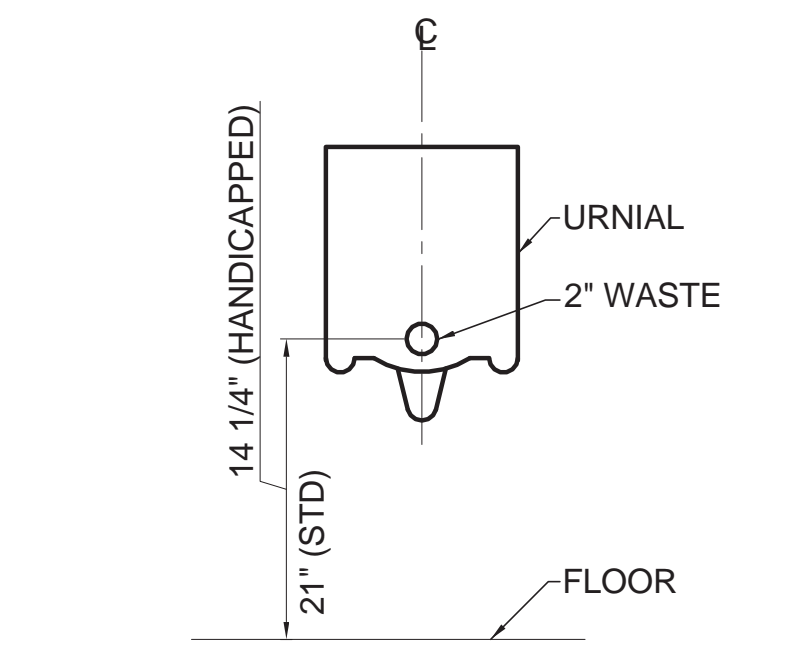




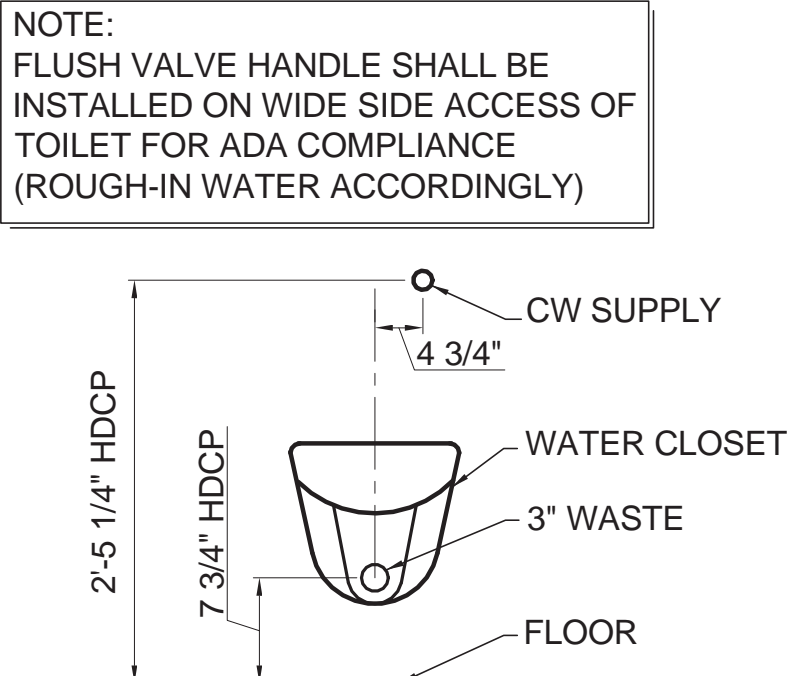


1 PLUMBING WATER ISOMETRIC

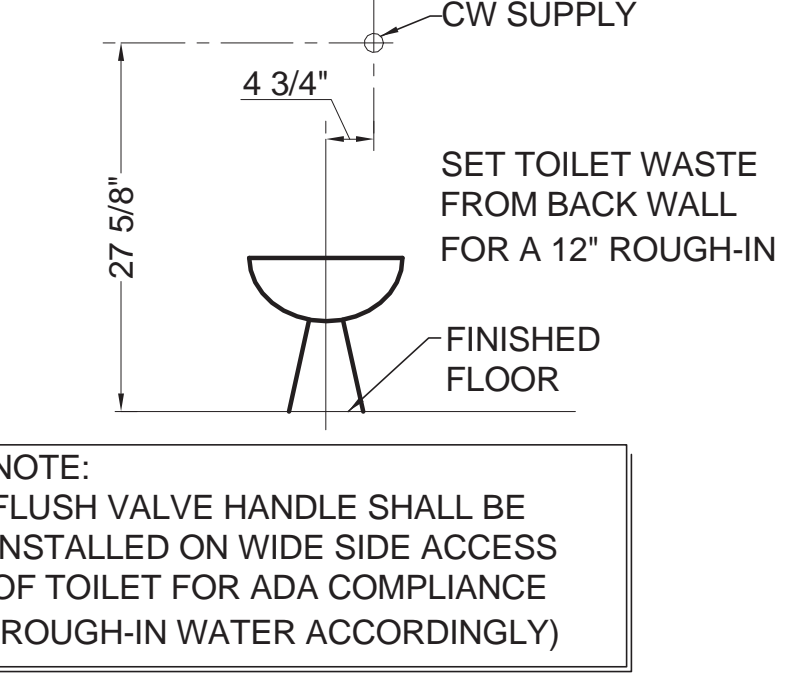
	ARCHITECT/ENGINEERS: NORTHERN DESIGN WORKS 420 RAIL STREET NEGAUNEE, MI 49866 PHONE: 906-475-6616 FAX: 906-475-6954 NDW PROJECT NUMBER: 1214	Drawing Title PLUMBING WATER ISOMETRIC	Project Title Renovate Four West		Project Number 585-12-132	Office of Construction and Facilities Management  Department of Veterans Affairs
		Approved: Project Director	Location IRON MOUNTAIN, MICHIGAN		Building Number 1	
			Date 11/04/2013	Checked TCC	Drawn NCF	Drawing Number PL402 Dwg. 59 of 100



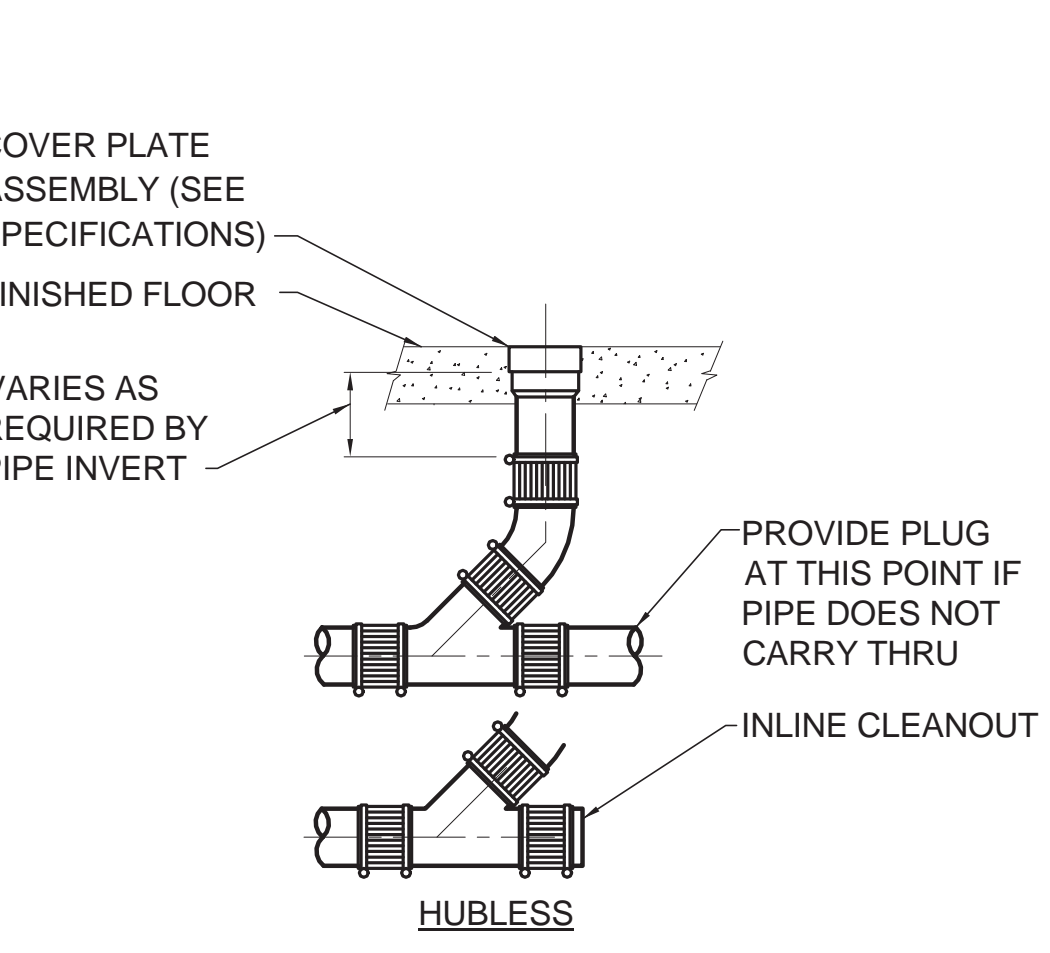
3 URINAL ROUGH-IN DETAIL
NOT TO SCALE



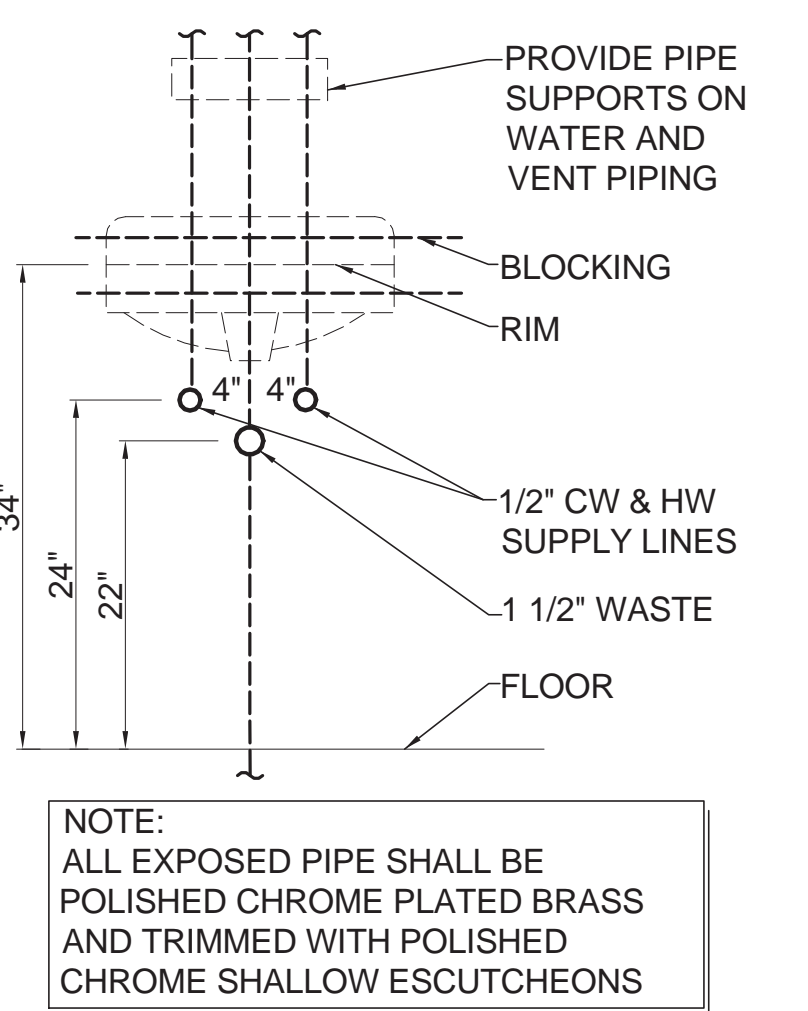
2 WATER CLOSET ROUGH-IN DETAIL
NOT TO SCALE



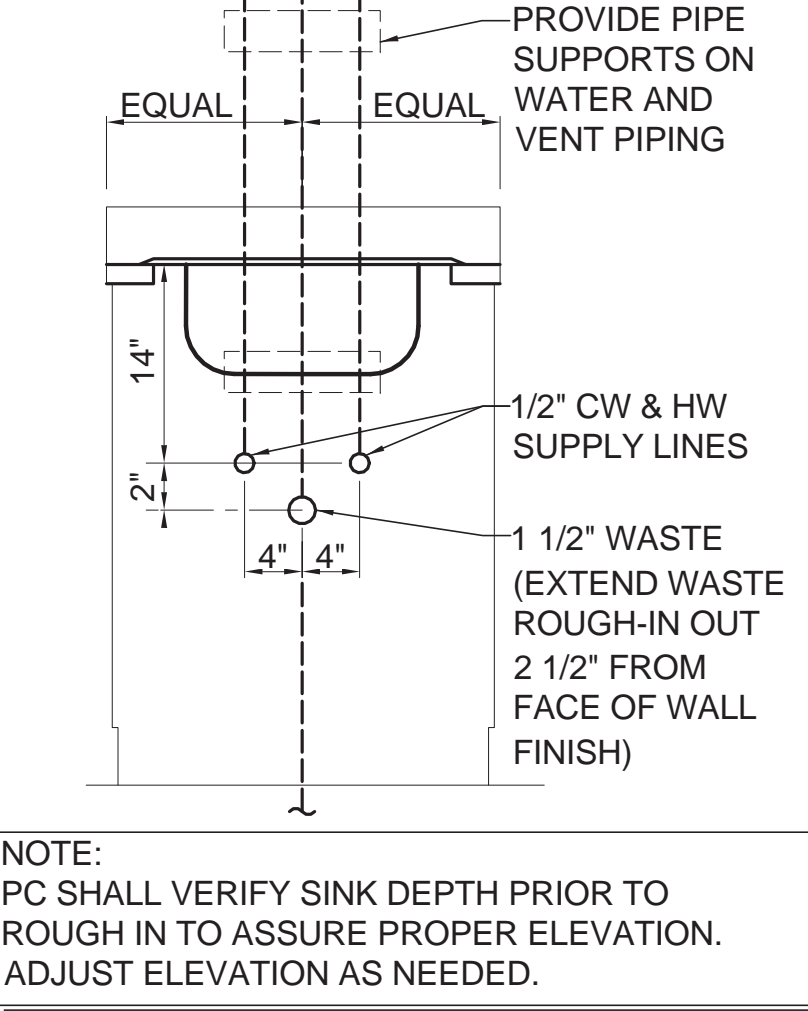
1 WATER CLOSET ROUGH-IN DETAIL
NOT TO SCALE



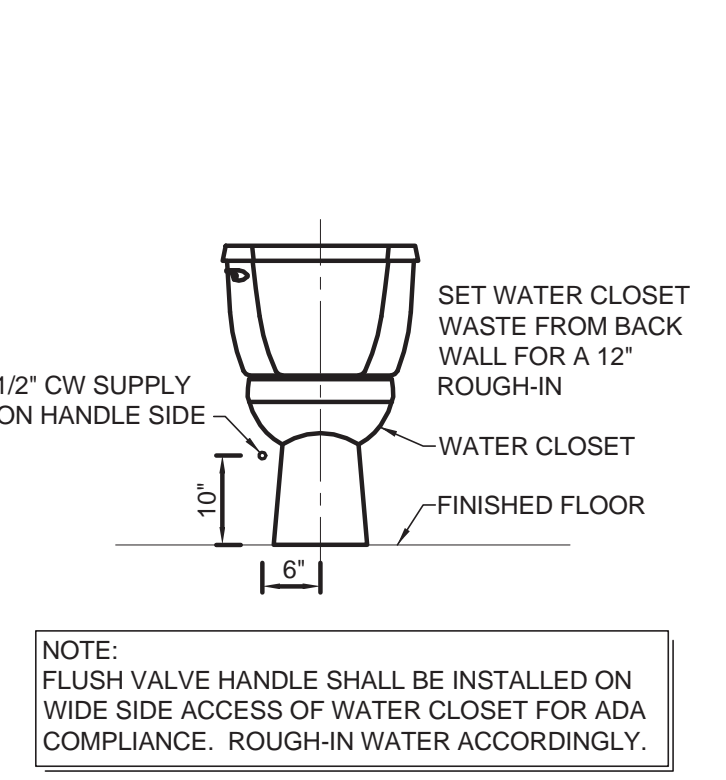
7 FLOOR AND INLINE CLEANOUT DETAIL
NOT TO SCALE



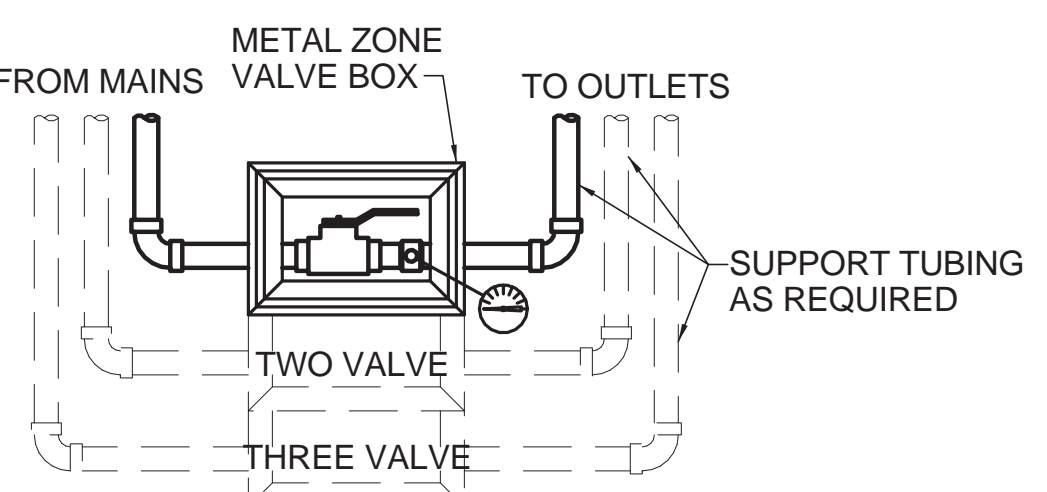
6 LAVATORY DETAIL
NOT TO SCALE



5 SINK ROUGH-IN DETAIL
NOT TO SCALE

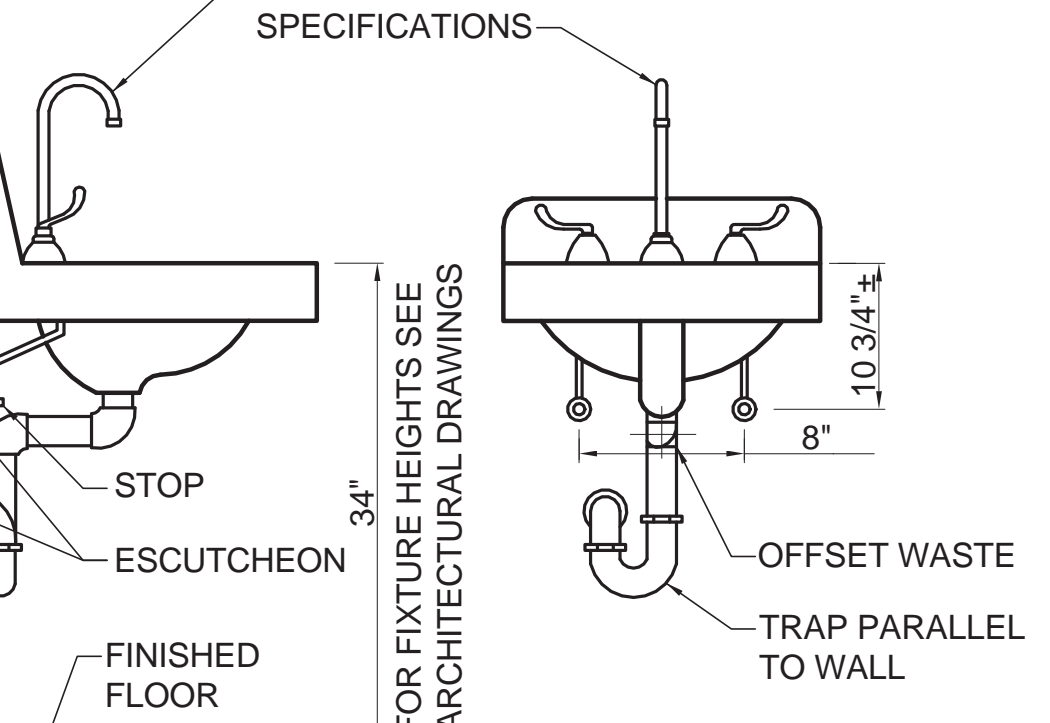


11 ADA TANK WATER CLOSET ROUGH-IN DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE TAGS ABOVE EACH ZONE VALVE BOX INDICATING THE AREAS SERVED BY EACH ZONE VALVE BOX.
2. ZONE VALVE BOX SHALL BE INSTALLED 52\"/>

10 ZONE VALVE BOX DETAIL
NOT TO SCALE



9 TYPICAL WHEELCHAIR LAVATORY DETAIL
NOT TO SCALE



ARCHITECT/ENGINEERS:
NORTHERN DESIGN WORKS
420 RAIL STREET
NEGAUNEE, MI 49866
PHONE: 906-475-6616
FAX: 906-475-6954
NDW PROJECT NUMBER: 1214

Drawing Title
PLUMBING & MEDICAL GAS DETAILS
Approved: Project Director

Project Title
Renovate Four West
Location
IRON MOUNTAIN, MICHIGAN
Date
11/04/2013
Checked
TCC
Drawn
NCF

Project Number
585-12-132
Building Number
1
Drawing Number
PL501
Dwg. 80 of 100

Office of
Construction
and Facilities
Management
Department of
Veterans Affairs