

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for Building Conservation	N/A
International Plumbing Code	2006	ADA Accessibility Guidelines	2003
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: U (UTILITY + MISCELLANEOUS)

Change in Use: Yes No Mixed Occupancy: Yes No
 Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

$\frac{I}{A}$ $\frac{I}{B}$ $\frac{II}{A}$ $\frac{II}{B}$ $\frac{III}{A}$ $\frac{III}{B}$ $\frac{IV}{HT}$ $\frac{V}{A}$ $\frac{V}{B}$

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: N/A Nonseparated Uses: N/A

F. Sprinklers:
 Required: NO Provided: N/A Type of Sprinkler System: N/A

G. Number of Stories: 1 Building Height: 15'-9"

H. Actual Area per Floor (square feet): 919 SF.

I. Tabular Area: 5500 SQ. FT.

J. Area Modifications: N/A

$$A_a = A_t \left[\frac{A_t I_f}{100} + \frac{A_t I_s}{100} \right] \quad I_f = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:

- One Story:
- Two Story: A_a(2)
- Three Story: A_a(3)

d) Unlimited Area Building: Yes No Code Section: N/A

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	N/A	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	N/A	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	N/A	
Partitions - Permanent	0		Fire Walls	N/A	
Fire Barriers	N/A		Fire Partitions	N/A	
			Smoke Partitions	N/A	

L. Design Occupant Load: 0

Exit Width Required: 36 Exit Width Provided: 36

M. Minimum Number of Required Plumbing Facilities:

- Water Closets - Required (m) 0 (f) 0 Provided (m) 2 (f) 3
- Lavatories - Required (m) 0 (f) 0 Provided (m) 2 (f) 2
- Bath Tubs or Showers: 0 PROVIDED 5
- Drinking Fountains: 0 Service Sinks: 0 PROVIDED 1

FOOTNOTES:

- In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 - High Rise Requirements.
 - Atriums.
 - Performance Based Criteria.
 - Means or Egress Analysis.
 - Fire Assembly Locator Sheet.
 - Exterior and Interior Accessibility Route.
 - Fire Stopping, Including Tested Design Number.

INDEX OF DRAWINGS

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- ASSP00 SITE PLAN

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- SDDT05 STRUCTURAL DETAILS

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- INSC35 SECTION & DETAILS
- AESH06 SCHEDULES DOOR & WINDOWS

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- PPFP01 PLUMBING FLOOR PLAN
- PPDT05 PLUMBING DETAILS

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- MHSH06 MECHANICAL SYMBOLS & NOTES
- MSFP01 MECHANICAL FLOOR PLAN
- MPFP01 MECHANICAL RADIANT HEATER PLAN
- MSQP06 MECHANICAL FLOOR PIPING SCHEMATIC
- MHDT05 DETAILS

ELECTRICAL

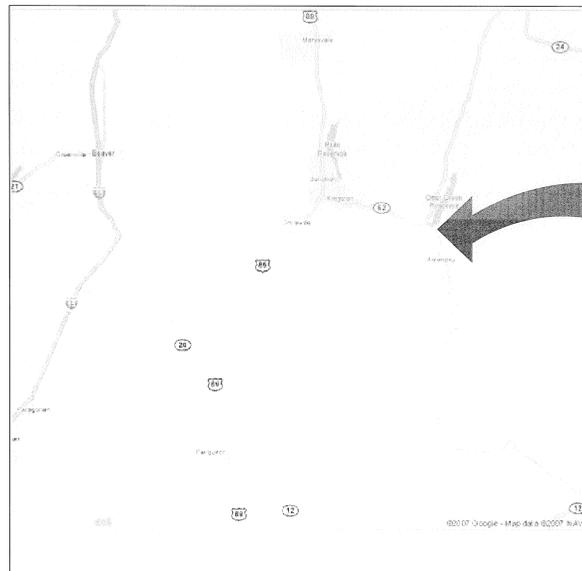
- ESFO01 ELECTRICAL FLOOR PLAN
- ESSH06 ELECTRICAL DETAILS & SCHEDULES

APPROVALS

UTAH PARKS & RECREATIONS PROJECT MANAGER _____ DATE _____

DEPUTY STATE FIRE MARSHALL - TODD HOUBEN _____ DATE _____

DIVISION OF FACILITIES CONSTRUCTION & MANAGEMENT _____ DATE _____



VICINITY MAP



OTTER CREEK STATE PARK

OTTER CREEK - DAY USE RESTROOM

State of Utah
Department of Administrative Services

Division of Facilities
Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267

Internet: <http://www.dfc.state.ut.us>

CREATED BY:

CAMPBELL & ASSOCIATES
ARCHITECTS
40 NORTH 200 EAST STREET, ST. GEORGE, UTAH 84770
PHONE: (801) 628-5969 FAX: (801) 628-5972 E-MAIL: info@campbell-associates.com



BUILDING NAME:

DAY USE RESTROOM
OTTER CREEK
HWY 22, 84712

PROJECT TITLE:

NEW OTTER CREEK
RESTROOMS
PIUTE COUNTY
UTAH

MARK DATE DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: 05/15/2008

DFCM PROJECT NO: 07172510

CAD PROJECT NO: 08006

CAD DWG FILE:

DRAWN BY: INMA

CHK'D BY:

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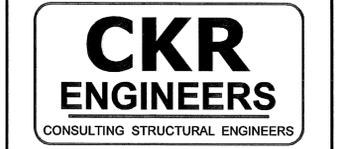
SHEET TITLE

COVER SHEET
SHEET INDEX

SHEET NUMBER

G-100

CREATED BY:



1283 NORTH STATE STREET
 OREM, UTAH 84057
 PHONE: (801) 222-0922
 SLC PHONE: (801) 984-1301
 FAX: (801) 222-0902

BUILDING NAME:

**DAY USE RESTROOM
 OTTER CREEK
 HWY 22 84712**

PROJECT TITLE:

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 RESTROOMS
 PIUTE COUNTY
 UTAH**

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: 05/15/2008

DFCM PROJECT NO: 07172510

CAD PROJECT NO: 08006

CAD DWG FILE:

DRAWN BY: JLR

CHK'D BY: CK

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SHEET TITLE

SHEET NUMBER

72510 SDFP01



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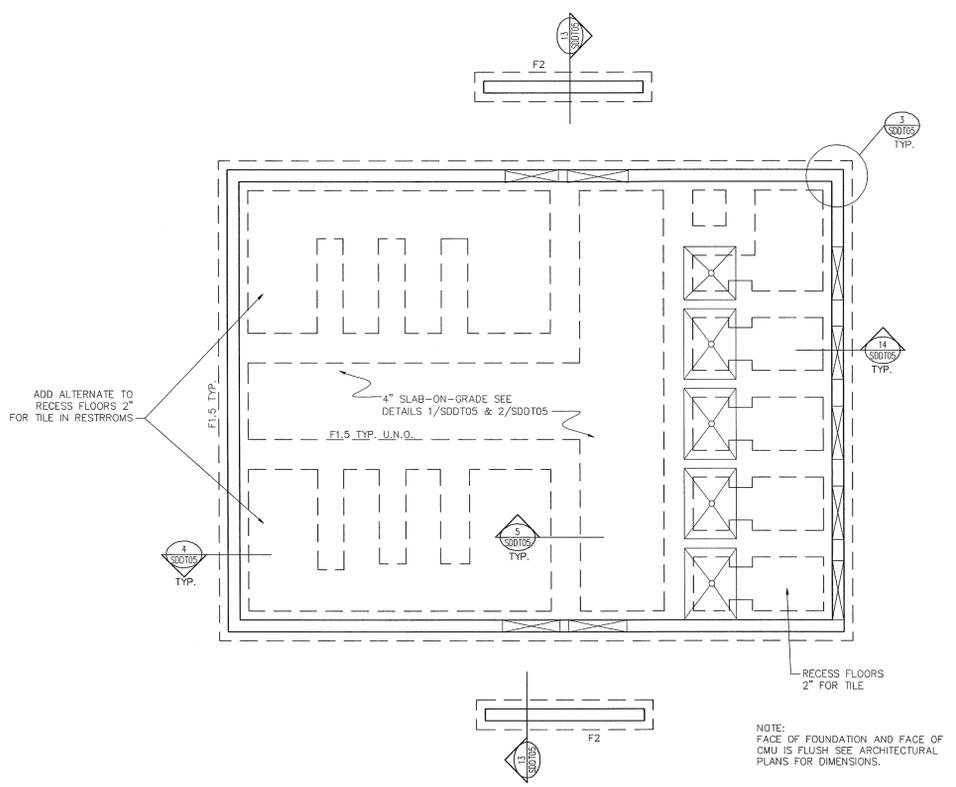
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C

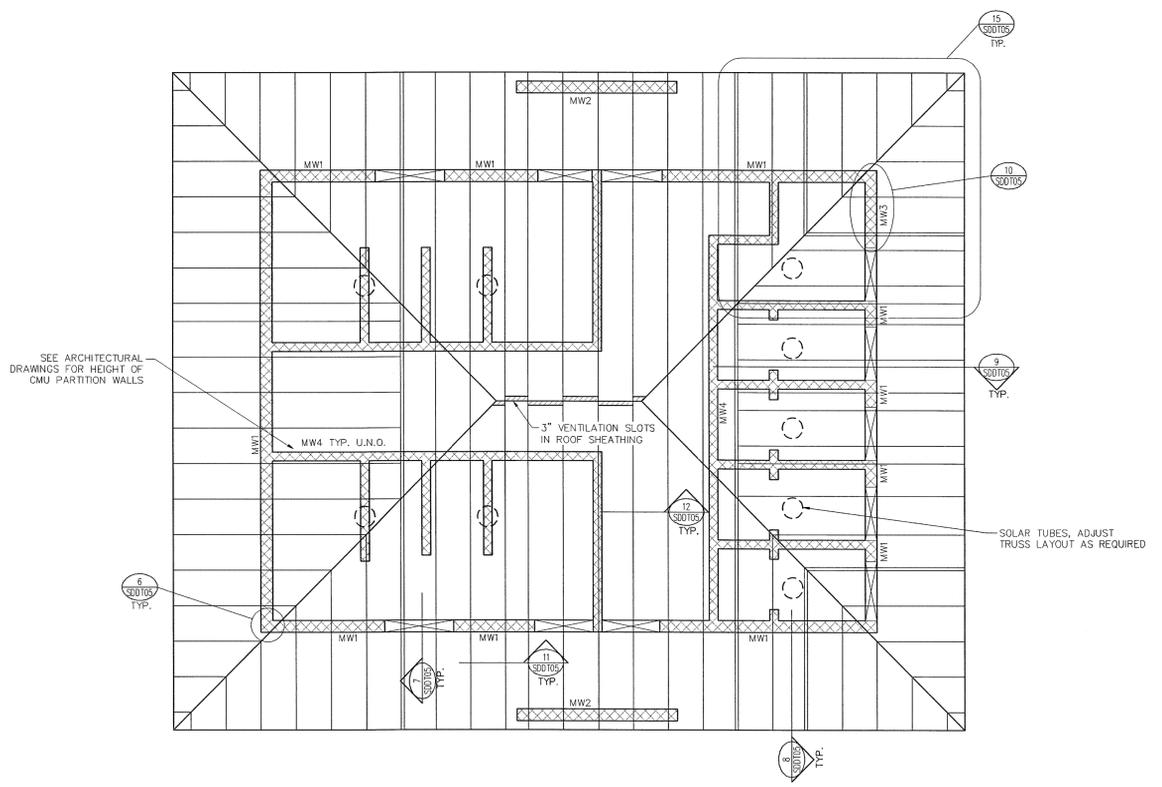
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A

1 2 3 4 5



FOUNDATION PLAN ① — 1/4"=1'-0"
 NAME



ROOF FRAMING PLAN ② — 1/4"=1'-0"
 NAME

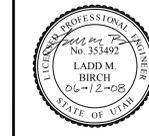
FOOTING SCHEDULE															
MARK	WIDTH	LENGTH	THICK.	CROSSWISE REINFORCEMENT						LENGTHWISE REINFORCEMENT					
				NO.	SIZE	LENGTH	TYPE	SPACE (IN. O.C.)	NOTES	NO.	SIZE	LENGTH	TYPE	SPACE (IN. O.C.)	NOTES
F1.5	1'-6"	CONT	12	---	---	---	---	---	---	2	4	CONT	60	12	1
F2	2'-0"	CONT	12	---	---	---	---	---	---	3	4	CONT	60	9	1

NOTES: 1. PROVIDE 36" MINIMUM FROST DEPTH.

MASONRY REINFORCING SCHEDULE					
WALL LOCATION	WALL SIZE	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	JAMB STEEL	NOTES
MW1	8" CMU	#5 @ 32" O.C.	(2) #4 @ 48" O.C.	(1) #5	
MW2	8" CMU	#5 @ 32" O.C.	(2) #4 @ 48" O.C.	(1) #5	
MW3	8" CMU	(2) #5 @ 8" O.C.	(2) #4 @ 24" O.C.	(4) #5	
MW4	6" CMU	#5 @ 32" O.C.	#5 @ 48" O.C.	----	

NAILING SCHEDULE										
LOCATION	NOTES	APA RATED ICB0 APPROVED SHEATHING	MINIMUM NOMINAL SHEATHING THICKNESS (INCHES)	MINIMUM WIDTH OF FRAMING MEMBERS (INCHES)	BLOCKED PANEL EDGES REQUIRED	COMMON NAIL SIZE	NAIL SPACING AT PERIMETER PANEL EDGES AND DIAPHRAGM BOUNDARIES (IN O.C.)	NAIL SPACING AT OTHER PANEL EDGES (IN O.C.)	NAIL SPACING AT INTERMEDIATE FRAMING MEMBERS (IN O.C.)	MINIMUM SPAN RATING
ROOF	1	CDX OR OSB	5/8	1.5	NO	10d	6	6	12	40/20

NOTES: 1. NAILS SHALL NOT BREAK THE SURFACE OF THE SHEATHING.



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MARK	DATE	DESCRIPTION
ISSUE TYPE: BID SET		
ISSUE DATE: 06/12/2008		
DFCM PROJECT NO: 07172510		
CAD PROJECT NO: VBFA-08228		
CAD DWG FILE:		
DRAWN BY: PF		
CHK'D BY: LB		
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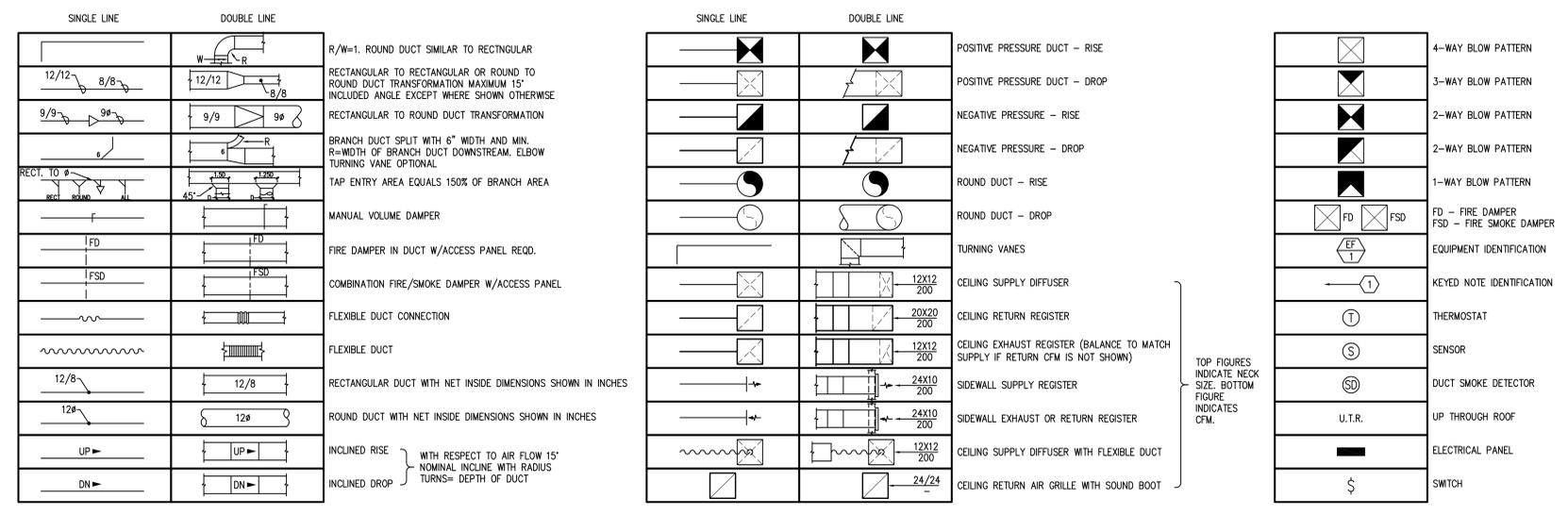
SHEET TITLE

**MECHANICAL
 LEGEND**

SHEET NUMBER

M0.0

MECHANICAL SYMBOL LEGEND



BOILER SCHEDULE

SYMBOL	MANUF. AND MODEL NO.	SERVICE	RATED INPUT CAPACITY (MBH)	RATED OUTPUT CAPACITY (MBH)	FLUID			MAXIMUM WATER PRESSURE DROP (FT)	ELECTRICAL		CONTROL CIRCUIT VOLTPH	INTAKE /EXHAUST DIA. (IN)	REMARKS
					TOTAL FLUID FLOW (GPM)	ENTER/ LEAVING FLUID TEMP (DEG. F)	WORKING FLUID		AMPS	VOLTPH			
B-1	LOCHINVAR KNIGHT KB-80	RADIANT FLOOR	80,000	73,000	5.9	100/130	WATER	15	0.5	120/1	24 V	3/8"	1

1. PROPANE

EXHAUST FAN SCHEDULE

SYMBOL	MANUF. AND MODEL NO.	FAN			MOTOR				WEIGHT (LBS)	REMARKS		
		TOTAL AIR FLOW RATE (CFM)	TOT. STATIC PRESSURE DROP (IN H2O)	OUTLET VELOCITY (FPM)	FAN SPEED (RPM)	FAN WHEEL DIAMETER (IN)	BHP	AMPS			MOTOR SPEED (RPM)	VOLTPH
EF-1	COOK ACEB-135	1,150	0.45	963	1063	13.5	1/8	-	1750	120/1	65	1.2

1. TIMER IN UTILITY CLOSET.
 2. DISCONNECT BY ELECTRICAL.

AIR SEPARATOR SCHEDULE

SYMBOL	MANUF. AND MODEL NO.	SYSTEM SERVED	FLUID		SIZE		REMARKS
			MAXIMUM FLUID FLOW RATE (GAL)	WORKING FLUID	MAXIMUM FLUID PRESSURE DROP (FT)	HEIGHT/ DIA. (IN)	
AS-1	BELL & GOSSETT IAS-1-14	RADIANT FLOOR	25	WATER	5	6.125/2.875	

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER & MODEL	TANK SIZE (GAL)	ACCEPTANCE VOLUME (GAL)	RELIEF VALVE (PSI)	DIA. HEIGHT (IN)	NPTM FITTING (IN)	REMARKS
ET-1	BELL & GOSSETT HFT-30	4.4	2.5	35	11/15.5	1/2	

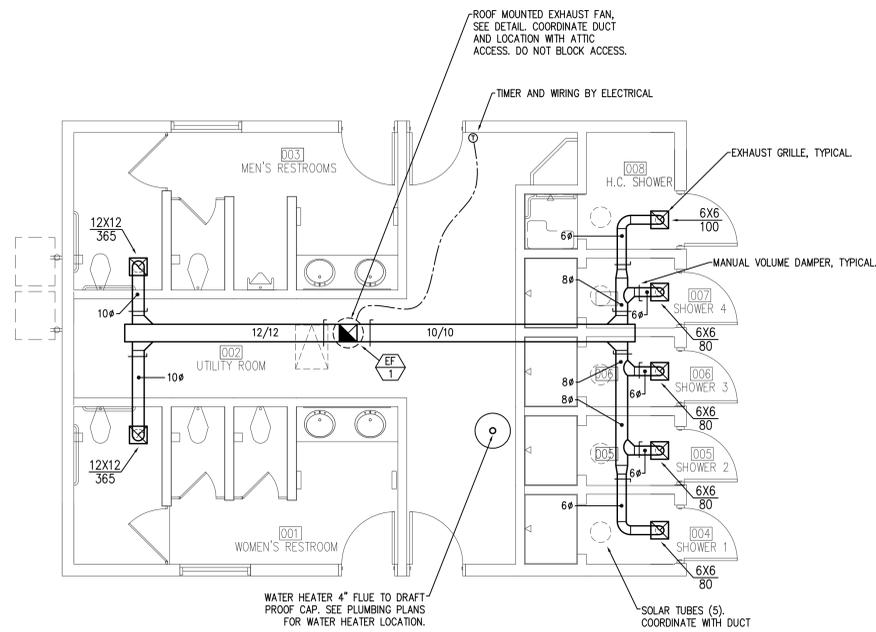


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UTAH**



MECHANICAL PLAN
SCALE: 1/4" = 1'-0"
MAIN LEVEL

MARK	DATE	DESCRIPTION
ISSUE TYPE: BID SET		
ISSUE DATE: 06/12/2008		
DFCM PROJECT NO: 07172510		
CAD PROJECT NO: VBFA-08228		
CAD DWG FILE:		
DRAWN BY: PF		
CHK'D BY: LB		
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SHEET TITLE		
MECHANICAL FLOOR PLAN		
SHEET NUMBER		
M1.1		



- KEYED NOTES**
- ① CONNECT TO EXISTING WATER SYSTEM. SEE SITE PLAN FOR CONTINUATION.
 - ② SEE SITE PLAN FOR CONTINUATION.
 - ③ DROP FROM CEILING, ANCHOR TO WALL WHERE ACCESSIBLE TO FIXTURES AND MAINTENANCE.
 - ④ DROP TO SANITARY SEWER LINE BELOW GRADE.
 - ⑤ SEE SITE PLAN FOR CONTINUATION.
 - ⑥ 1" WATER TO BOILER. SEE SHEET M2.1 FOR BOILER LOCATION.
 - ⑦ CONTRACTOR TO SEISMICALLY BRACE WATER HEATER TO STRUCTURE.
 - ⑧ NOT USED.
 - ⑨ CONTRACTOR TO INSTALL A SHUT-OFF VALVE FOR WINTER DRAIN DOWN, SEE DETAIL 4/PO.1, TYPICAL.
 - ⑩ INSTALL A SHUT-OFF VALVE AS WATER MAIN ENTERS THE BUILDING.
 - ⑪ COORDINATE PIPING WITH ELECTRICAL. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL.
 - ⑫ NOT USED.
 - ⑬ NOT USED.
 - ⑭ PROPANE TO BOILER. CONNECTION PER MANUFACTURER.
 - ⑮ PROPANE TO WATER HEATER. CONNECTION PER MANUFACTURER.

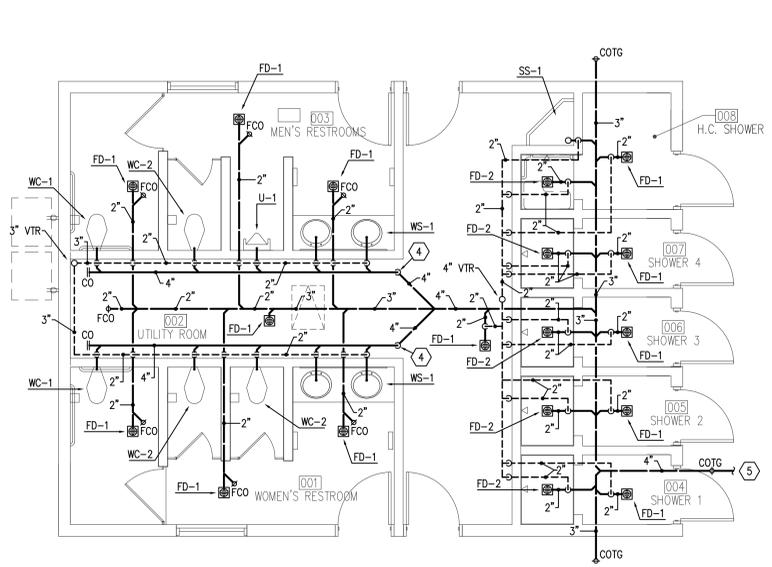
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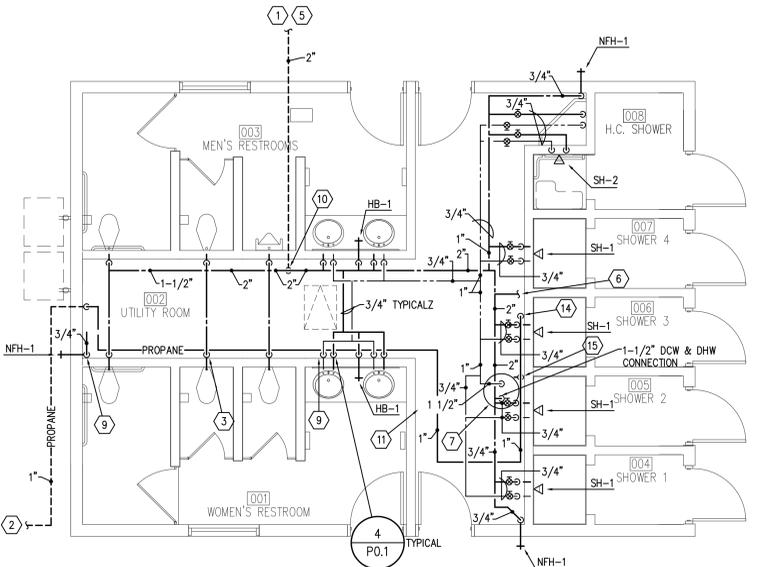
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SHEET TITLE
**PLUMBING
FLOOR PLAN**

SHEET NUMBER
P1.1



SEWER AND VENT PIPING PLAN
SCALE: 1/4" = 1'-0"
DAY USE RESTROOMS



WATER AND PROPANE PIPING PLAN
SCALE: 1/4" = 1'-0"
DAY USE RESTROOMS

