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UTAH VALLEY UNIVERSITY INTRAMURAL RESTROOM IMPROVEMENTS

OREM, UTAH
DFCM PROJECT NO. 10004790



State of Utah – Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

March 15th, 2010

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State of Utah

Department of Administrative Services

DFCM Division of Facilities
Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
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architecture | planning | design

CONSULTANT:

PROJECT TITLE:

UTAH VALLEY UNIVERSITY
OREM, UTAH

NEW INTRAMURAL FIELD
RESTROOM BUILDING

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790

CAD PROJECT NO:

CAD DWG FILE:

DRAWN BY: BRIAN AND SCOTT

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SHEET TITLE

COVER SHEET

SHEET NUMBER

A-G1000

UTAH VALLEY UNIVERSITY INTRAMURAL ATHLETIC FIELD RESTROOM IMPROVEMENTS

OREM, UTAH

DFCM PROJECT NO. 10004790

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architecture planning design

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SHEET TITLE

GENERAL
INFORMATION

SHEET NUMBER

A-G1001

ABBREVIATIONS

Reference to materials or methods have been made on the drawings in accordance with the following abbreviations:

#	NUMBER	GWB.	GYPSUM WALL BOARD
'	FEET	GYP. BD.	GYPSUM WALL BOARD
"	INCHES	HC.	HANDICAPPED
&	AND	HDW.	HARDWARE
@	AT	H.M.	HOLLOW METAL
Ø	DIAMETER	HORIZ.	HORIZONTAL
ADJ.	ADJUSTABLE	HR.	HOUR
AFF.	ABOVE FINISH FLOOR	HT.	HEIGHT
ALUM.	ALUMINUM	HVAC	HEATING/VENTILATION/ AIR CONDITIONING
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	HYD.	HYDRANT
ATS	AUTOMATIC TRANSFER SWITCH	I.D.	INSIDE DIAMETER
BD	BOARD	INFO	INFORMATION
BITUM.	BITUMINOUS	INSUL.	INSULATION
BLDG.	BUILDING	LAV.	LAVATORY
B.M.	BENCHMARK	LT.	LIGHT
B.O.	BOTTOM OF	MATL.	MATERIAL
BRG.	BEARING	MAX.	MAXIMUM
BTWN.	BETWEEN	MECH.	MECHANICAL
CER.	CERAMIC	MFR.	MANUFACTURER
CJ	CONSTRUCTION JOINT	MIN.	MINIMUM
CLG.	CEILING	MISC.	MISCELLANEOUS
CLR.	CLEAR	M.O.	MASONRY OPENING
CMU	CONCRETE MASONRY UNIT	MTL.	METAL
COL.	COLUMN	NIC	NOT IN CONTRACT NUMBER
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONT.	CONTINUOUS	O.C.	ON CENTER
CONST.	CONSTRUCTION	O.D.	OUTSIDE DIAMETER
COORD.	COORDINATE	O.H.	OVERHEAD
CTJ	CONSTRUCTION JOINT	OPP.	OPPOSITE
DBL.	DOUBLE	PART.	PARTITION
DPW	DIRECTOR OF PUBLIC WORKS	PERP.	PERPENDICULAR
DIA.	DIAMETER	PL.	PLATE
DPG	DUGWAY PROVING GROUND	PNTD.	PAINTED
DTL.	DETAIL	PSI	POUNDS PER SQUARE INCH
DWGS.	DRAWINGS	R.D.	ROOF DRAIN
EA.	EACH	RAD.	RADIUS
EJ	EXPANSION JOINT	REINF.	REINFORCED
ELEV.	ELEVATION	REQ'D	REQUIRED
EQ.	EQUAL	RET.	RETURN
E.S.	EACH SIDE	REV.	REVERSED
EXIST.	EXISTING	RM.	ROOM
EXPAN.	EXPANSION	R.O.	ROUGH OPENING
EXT.	EXTERIOR	SCHED.	SCHEDULE
E.W.C.	ELECTRIC WATER COOLER	SHR.	SHOWER
F.D.	FLOOR DRAIN	SHT.	SHEET
FDN.	FOUNDATION	SIM.	SIMILAR
F.E.	FIRE EXTINGUISHER	SPEC.	SPECIFICATION
F.E.C.	FIRE EXTINGUISHER CABINET	STD.	STANDARD
F.F.	FINISH FLOOR	STR.	STRUCTURAL
FIN.	FINISH	SUSP.	SUSPENDED
FLR.	FLOOR	THRU	THROUGH
F.L.	FLOW LINE	T.O.	TOP OF
FTG.	FOOTING	T.O.A.	TOP OF ASPHALT
GA.	GAGE	T.O.C.	TOP OF CURB
GALV.	GALVANIZED	T.O.F.	TOP OF FOOTING
GF-CI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	T.O.S.	TOP OF SLAB OR SIDEWALK
GF-GI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	T.O.W.	TOP OF WALL
GF	GOVERNMENT INSTALLED	TYP.	TYPICAL
G.I.	GALVANIZED STEEL	VERT.	VERTICAL
GND.	GROUND	VEST.	VESTIBULE
GOVT.	GOVERNMENT	W/	WITH
		WD	WOOD

DESIGN TEAM

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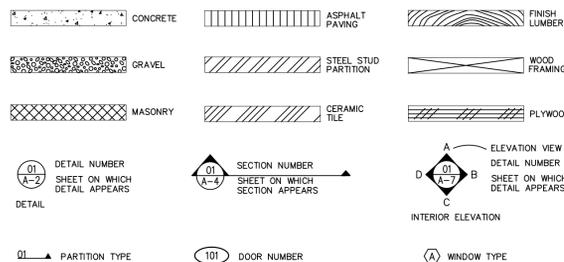
MECHANICAL

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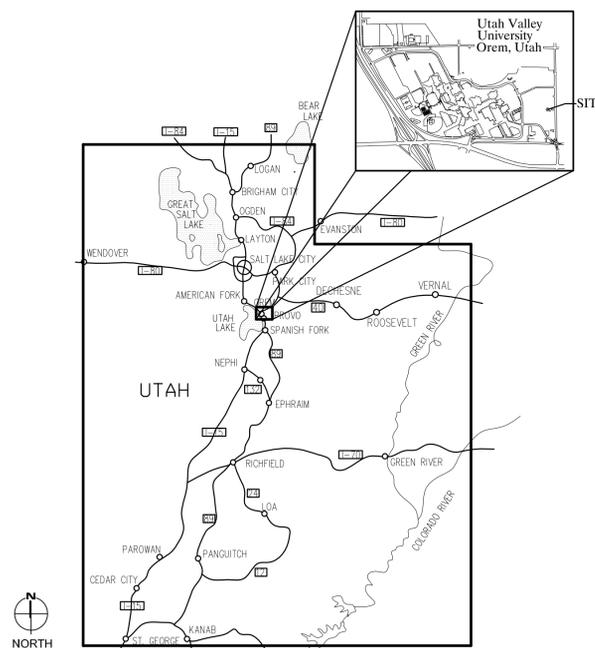
LIST OF DRAWINGS

GENERAL	AG-1000	COVER SHEET
	AG-1001	COVER SHEET AND GENERAL INFORMATION
ARCHITECTURAL DRAWINGS	A-SS100	SITE SURVEY
	A-SP101	SITE PLAN
	A-SP102	SITE PLAN
	A-SP103	SITE DETAILS
	A-FP100	FLOOR PLAN
	A-CP101	CEILING AND ROOF PLAN
	A-BE200	BUILDING ELEVATIONS
	A-BS300	BUILDING SECTIONS, WALL SECTIONS AND BUILDING DETAILS
	A-DT500	FINISH SCHEDULES, DOOR SCHEDULES, DOOR AND WINDOW DETAILS
	A-IE600	INTERIOR ELEVATIONS AND MOUNTING HEIGHT SCHEDULE
STRUCTURAL	S-1	STRUCTURAL GENERAL NOTES
	S-2	FOUNDATION AND ROOF FRAMING PLANS
	SD-1	STRUCTURAL DETAILS
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MECHANICAL	M001	MECHANICAL SYMBOLS AND ABBREVIATIONS
	M100	MECHANICAL FLOOR PLAN, DETAILS AND SCHEDULES
	P100	PLUMBING FLOOR PLAN, DETAILS AND SCHEDULES
ELECTRICAL	E001	ELECTRICAL SCHEDULES AND GENERAL NOTES
	E100	ELECTRICAL SITE PLAN
	E200	ELECTRICAL FLOOR PLAN

GRAPHIC KEY



VICINITY MAP



DFCM DESIGN AND CODE CRITERIA

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	N/A
International Plumbing Code	2006	ADA Accessibility Guidelines	N/A
International Fire Code	2006		
International Energy Conservation Code	N/A		

A. Occupancy and Group: S-2
Change in Use: Yes No Mixed Occupancy: Yes No
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

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

C. Type of Construction (circle one):
I A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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

E. Mixed Occupancies: NO Nonseparated Uses: NO

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

G. Number of Stories: 1 Building Height: 14'-8"

H. Actual Area per Floor (square feet): 950 SQUARE FEET

I. Tabular Area: 5500 SQUARE FEET

J. Area Modifications:
a) $A_n = A_1 + \left[\frac{A_1 I_1}{100} \right] + \left[\frac{A_1 I_2}{100} \right]$ $I_1 = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:
Actual Area ≤ 1
Allowable Area

c) Total Allowable Area for:
1) One Story: —
2) Two Story: $A_n(2)$ —
3) Three Story: $A_n(3)$ —

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

L. Design Occupant Load: STORAGE = 1 PER 300

Exit Width Required: 3'-0" Exit Width Provided: 3'-0"

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) 1per25 (f) 1per25 Provided (m) 1 (f) 3

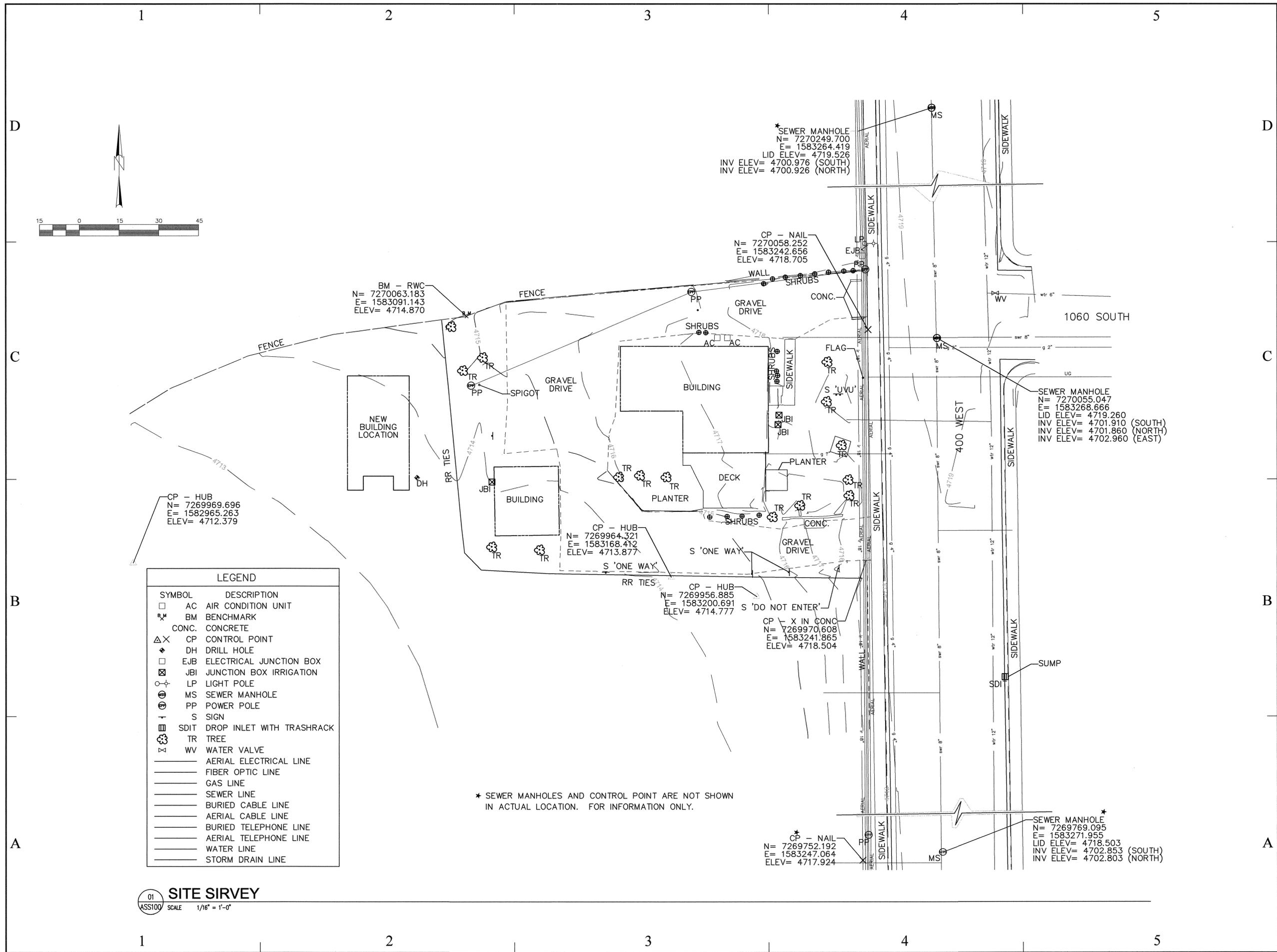
b) Lavatories - Required (m) 1per40 (f) 1per40 Provided (m) 2 (f) 2

c) Bath Tubs or Showers: NONE

d) Drinking Fountains: 2 Provided. Service Sinks: 1 Provided.

FOOTNOTES:

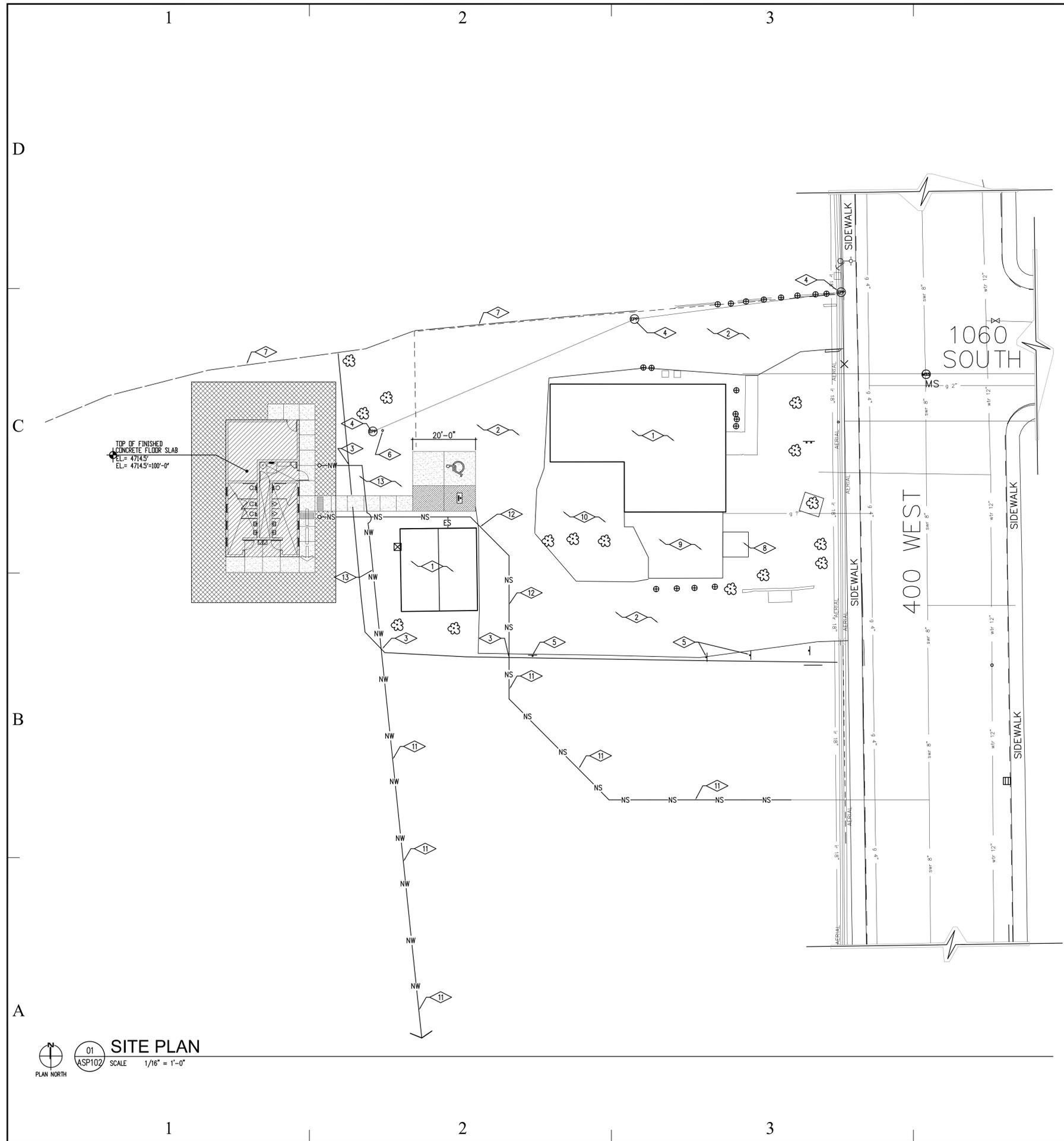
- In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 - High Rise Requirements.
 - Altiums.
 - Performance Based Criteria.
 - Means or Egress Analysis.
 - Fire Assembly Locator Sheet.
 - Exterior and Interior Accessibility Route.
 - Fire Stopping, Including Tested Design Number.
- Every structure, and portion thereof, including nonstructural components that are permanently attached to structures and their supports and attachments, shall be designed and constructed to resist the effects of earthquake motions in accordance with ASCE 7-05 and IBC Section 1613.1.
 - Deferred Submittals As Listed Below To Be Submitted To The Building Official
 - Manufactured Roof Trusses To Be Submitted To Architect & Building Official By June 10th, 2010. Trusses are not to be installed until approval has been given by the Building Official (per IBC 106.3.4.2)



LEGEND	
SYMBOL	DESCRIPTION
□	AC AIR CONDITION UNIT
✱	BM BENCHMARK
CONC.	CONCRETE
△ X	CP CONTROL POINT
◆	DH DRILL HOLE
□	EJB ELECTRICAL JUNCTION BOX
□	JBI JUNCTION BOX IRRIGATION
○	LP LIGHT POLE
⊙	MS SEWER MANHOLE
⊕	PP POWER POLE
+	S SIGN
⊞	SDIT DROP INLET WITH TRASHRACK
⊗	TR TREE
×	WV WATER VALVE
---	AERIAL ELECTRICAL LINE
---	FIBER OPTIC LINE
---	GAS LINE
---	SEWER LINE
---	BURIED CABLE LINE
---	AERIAL CABLE LINE
---	BURIED TELEPHONE LINE
---	AERIAL TELEPHONE LINE
---	WATER LINE
---	STORM DRAIN LINE

* SEWER MANHOLES AND CONTROL POINT ARE NOT SHOWN IN ACTUAL LOCATION. FOR INFORMATION ONLY.

01 **SITE SURVEY**
SCALE 1/16" = 1'-0"



REFERENCE NOTES

- 1 EXISTING STRUCTURE NOT TO BE DISTURBED
- 2 EXISTING GRAVEL DRIVE APPROACH TO REMAIN CLEAR AT ALL TIMES
- 3 EXISTING RAILROAD TIE BARRIER TO BE REMOVED AND REINSTALLED UPON CONSTRUCTION.
- 4 EXISTING POWER POLE
- 5 EXISTING SIGNAGE TO REMAIN UNDISTURBED.
- 6 EXISTING WATER SPIGOT
- 7 EXISTING FENCE TO REMAIN UNDISTURBED.
- 8 EXISTING PLANTER TO REMAIN UNDISTURBED.
- 9 EXISTING DECK TO REMAIN UNDISTURBED.
- 10 EXISTING AREA OF PLANTING TO REMAIN UNDISTURBED.
- 11 GENERAL CONTRACTOR SHALL BACKFILL TRENCH LOCATIONS FOR NEW SEWER AND WATER LINES IN 6" LIFTS. REPLACE SOD SLIGHTLY HIGHER THAN EXISTING SOD.
- 12 GENERAL CONTRACTOR SHALL BACKFILL TRENCH LOCATIONS FOR NEW SEWER AND WATER LINES IN 6" LIFTS. REPLACE GRAVEL DRIVEWAY SLIGHTLY HIGHER THAN EXISTING GRAVEL.
- 13 GENERAL CONTRACTOR SHALL BACKFILL TRENCH LOCATIONS FOR NEW SEWER AND WATER LINES IN 6" LIFTS. REPLACE EXISTING IRRIGATION SYSTEM AND LANDSCAPING WITH SAME MATERIAL.

LEGEND

- HATCH PATTERN INDICATES AREAS WHERE NEW BUILDING WILL SIT ON EXISTING SITE. GENERAL CONTRACTOR SHALL REMOVE EXISTING SOD AND 10" OF TOP SOIL AT THIS LOCATION. GENERAL CONTRACTOR SHALL PROVIDE NEW STRUCTURAL FILL AT THIS LOCATION TO A DEPTH REQUIRED TO ELEVATE NEW STRUCTURE TO NEW FINISHED HEIGHT AS SHOWN ON SHEET A-SP100
- HATCH PATTERN INDICATES AREAS WHERE GENERAL CONTRACTOR SHALL REMOVE EXISTING SOD BEYOND THE PERIMETER OF NEW BUILDING. GENERAL CONTRACTOR SHALL PROVIDE NEW TOP SOIL TO CREATE A MINIMUM 2% SLOPE AWAY FROM THE NEW STRUCTURE AS PER IBC 1803.3. PROVIDE NEW SOD AT THIS LOCATION UPON COMPLETION OF PROJECT. NEW SOD TO MATCH EXISTING SOD SPECIES. GENERAL CONTRACTOR SHALL REPLACE AND RECONFIGURE EXISTING SPRINKLER SYSTEM IN THIS AREA TO MATCH EXISTING. PROVIDE ADEQUATE SPRINKLER COVERAGE TO ALL NEW SOD AREAS.
- EXISTING TREES TO REMAIN UNDISTURBED

GENERAL NOTES

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY SIDEWALK, CURB & GUTTER, ASPHALT, LANDSCAPING ETC. DISTURBED OR DESTROYED DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN EMERGENCY AND UTILITY VEHICLE ACCESS AT ALL TIMES TO ALL EXISTING BUILDINGS AND BUILDING ENTRANCES
3. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE AND PROJECT CONDITIONS PRIOR TO BIDDING.
4. GENERAL CONTRACTOR SHALL PROTECT EXISTING BUILDING FROM DAMAGE DURING CONSTRUCTION.
5. EXISTING DRIVE APPROACHES TO REMAIN CLEAR AT ALL TIMES
6. ALL EXISTING SIDEWALKS TO REMAIN CLEAR AT ALL TIMES
7. ALL EXISTING CONCRETE AND ASPHALT PATHWAYS TO REMAIN OPEN TO PEDESTRIANS AND VEHICLES AT ALL TIMES DURING CONSTRUCTION

General Landscaping Notes

1. The contractor shall verify the exact location of all existing and proposed utilities, and all site conditions prior to beginning construction. The contractor shall coordinate his work with the project manager and all other contractors working on the site.
2. The finish grade of all planting areas shall be smooth, even and consistent, free of any humps, depressions or other grading irregularities. The finish grade of all landscape areas shall be graded consistently 3/4" below the top of all surrounding walks, curbs, etc.
3. The contractor shall provide all materials, labor and equipment required for the proper completion of all landscape work as specified and shown on the drawings.
4. All plant materials shall be approved prior to planting. The Owner/Landscape Architect has the right to reject any and all plant material not conforming to the specifications.
5. The contractor shall keep the premises, storage areas and paving areas neat and orderly at all times. Remove trash, sweep, clean, hose, etc. daily.
6. The contractor shall not impede drainage in any way. The contractor shall always maintain positive drainage away from the building, walls, etc.

Planting Notes

1. All lawn areas shall receive a 4 inch depth of topsoil, all shrub planting areas shall receive a 4 inch depth of topsoil. Topsoil material is not available at the site and must be imported from an approved local source. All topsoil shall be of a sandy loam mix.
2. All lawn areas shall be sodded using high grade material of a water conservative mixture, and shall be freshly cut from an approved local source. Prior to the installation, all areas shall receive a starter fertilizer applied at the rate recommended by the manufacturer.
3. Plant fertilizer shall be "Agriform" brand 21 gram tablets used as per manufacturers recommendations.
4. The project shall be swept clean of dirt and debris prior to completion of the project, and on a daily basis, if required, as determined by the Owner/contractor.
5. The contractor shall comply with all warranties and guarantees set forth by the Owner, and in no case shall that period be less than one year following the date of completion and acceptance.

Sub-Grade Requirements

1. LAWN AREAS : Six (6) inches below finish grade. This will allow for the installation of a four inch depth of topsoil along with the sodding material, leaving it slightly below finish grade and concrete areas.

Sprinkler Notes

1. All main service lines shall be buried 18 inches below finish grade, all lateral circuit lines 12 inches below finish grade. Backfill all lines with sand or lump free soil.

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STATE OF UTAH
 261110
 LICENSED ARCHITECT

architecture | planning | design

CONSULTANT:

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SHEET TITLE
SITE PLAN

SHEET NUMBER

A-SP102

PLAN NORTH

01 ASP102 SCALE 1/16" = 1'-0"



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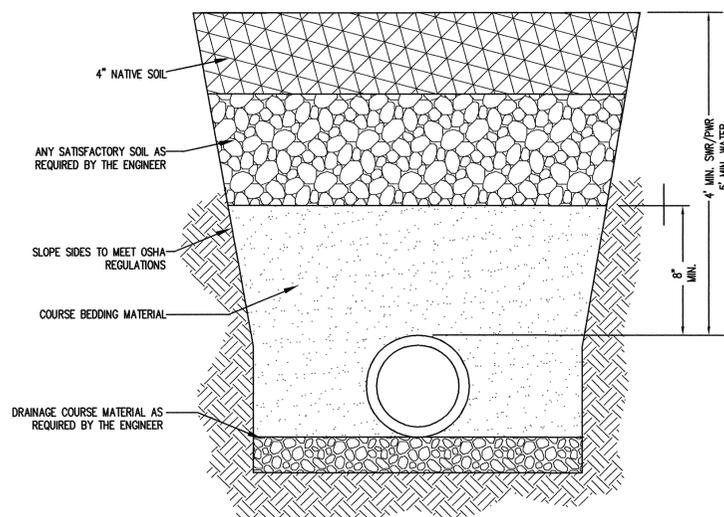
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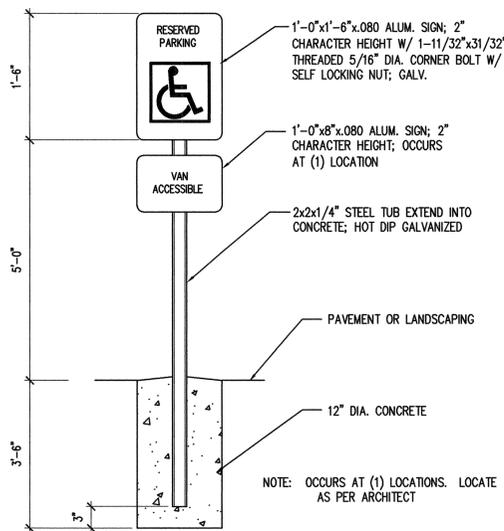
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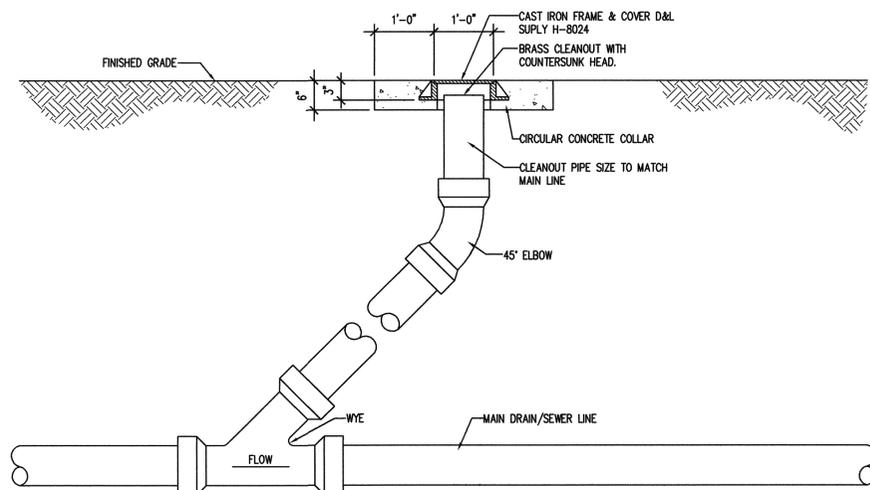
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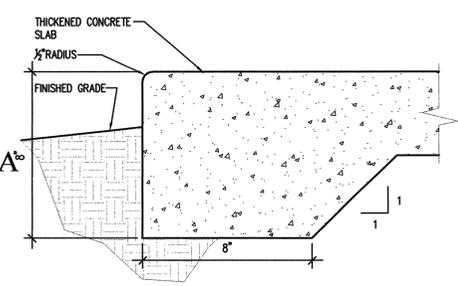
08 TYP. TRENCH SECTION
SCALE N.T.S.



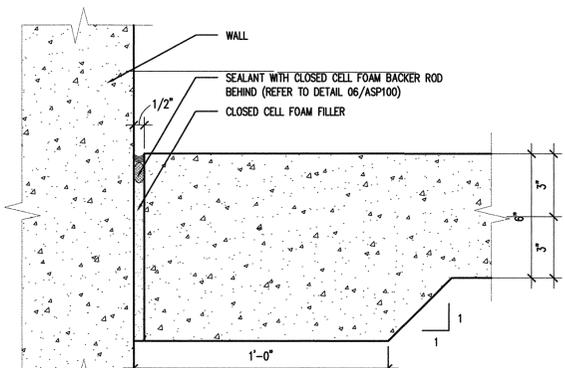
07 ADA PARKING STALL SIGN
SCALE 1\"/>



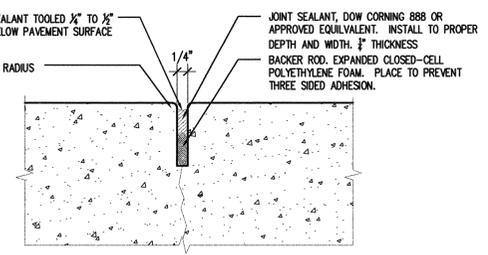
06 SEWER CLEANOUT DETAIL
SCALE N.T.S.



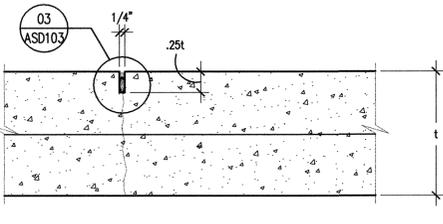
05 SLAB PERIMETER JOINT
SCALE 3\"/>



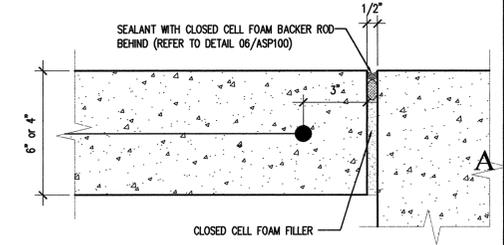
04 SLAB PERIMETER JOINT
SCALE 3\"/>



03 TYP. JOINT SEALANT
SCALE 6\"/>



02 TYP. SLAB CONT. JOINT
SCALE 3\"/>



01 TYP. SLAB EXP. JOINT
SCALE 3\"/>

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DRAWN BY: BRIAN AND SCOTT

CHK'D BY: SCOTT

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SHEET TITLE

FLOOR PLAN

SHEET NUMBER

A-FP100

FLOOR PLAN

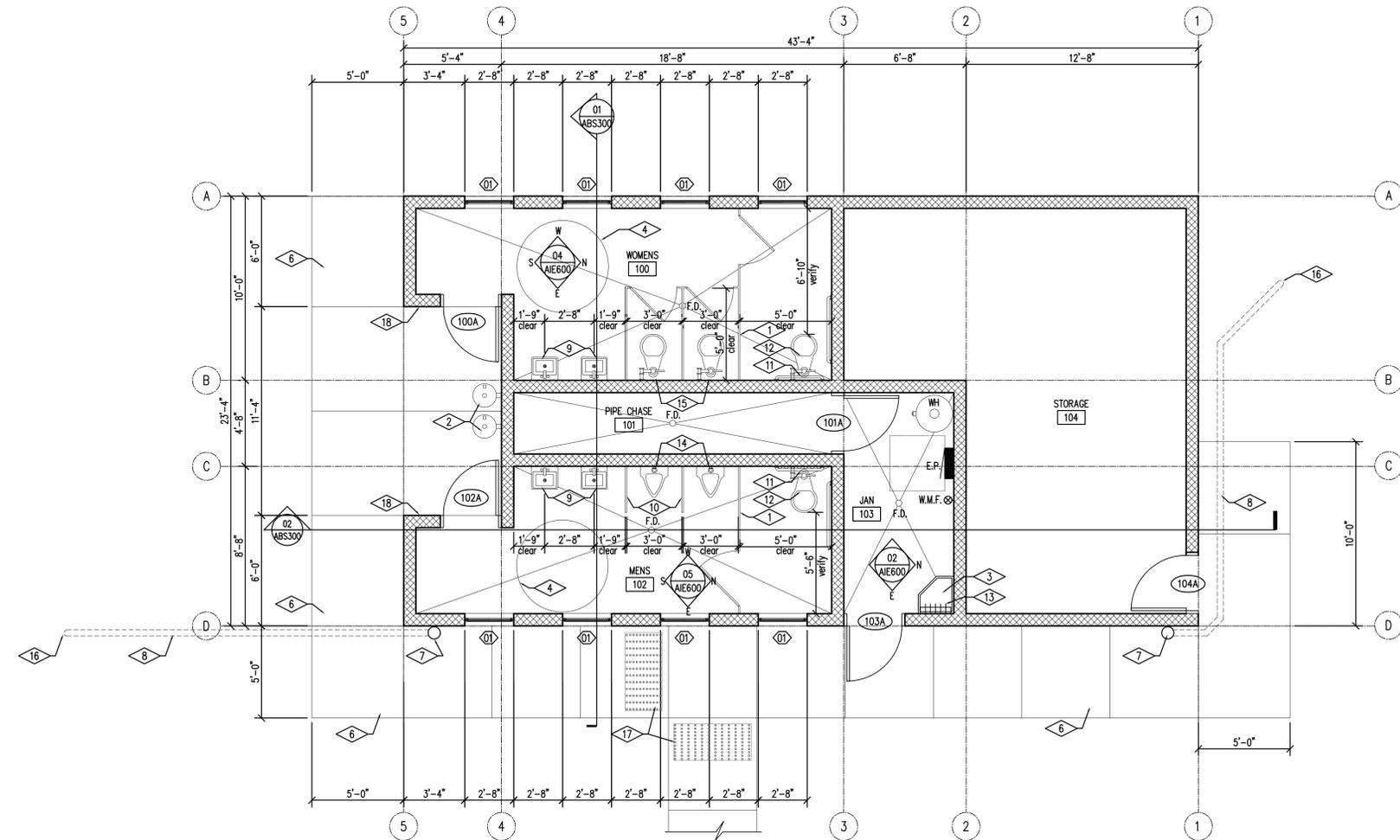
- 1 BAKED ENAMEL, METAL TOILET PARTITIONS, SEE SPECIFICATION SECTION 10155
- 2 DRINKING FOUNTAINS, SEE PLUMBING DRAWINGS
- 3 JANITORS SINK, SEE PLUMBING DRAWINGS
- 4 5'-0" DIA. ADA TURNING
- 5 LAVATORY, SEE PLUMBING DRAWINGS
- 6 4" EXTERIOR CONCRETE SIDE WALK OVER 6" COMPACTED GRAVEL BASE, SLOPE AWAY FROM BUILDING, SEE SITE PLAN.
- 7 PROVIDE 6" DIA PVC ELBOW AT TOP OF CONCRETE SLAB EXTENDED 6" PVC PIPING TO 6" ABOVE TOP OF CONCRETE SLAB, SEE FLOOR PLAN
- 8 6" BURIED PVC PIPE TO RUN UNDER CONCRETE SLAB, GENERAL CONTRACTOR SHALL EXTEND BURIED PIPE TO LOCATION SHOWN ON FLOOR PLAN
- 9 LAVATORY, SEE PLUMBING DRAWINGS
- 10 BAKED ENAMEL URINAL SCREEN, SEE INTERIOR ELEVATIONS & SPECIFICATION SECTION 10155
- 11 WALL MOUNTED GRAB BAR, SEE SPECIFICATION SECTION 09653
- 12 ACCESSIBLE WATER CLOSET, SEE PLUMBING DRAWINGS
- 13 MOP RACK, SEE SPECIFICATION SECTION 09653
- 14 WALL MOUNTED URINALS, SEE PLUMBING DRAWINGS
- 15 WALL MOUNTED WATER CLOSET, SEE PLUMBING DRAWINGS
- 16 PROVIDE CONCRETE SPLASH AT OUTLET LOCATION
- 17 24"x48" CAST-IN PLACE TRUNCATED DOME DETECTABLE WARNING SYSTEM. USE "ADA WALKWAY INC". CAST IN PLACE TRUNCATED DOME WARNING SYSTEM OR EQUAL. CONTACT NUMBER 1-866-838-5638
- 18 PROVIDE MEN'S AND WOMEN'S ADA WITH BRILLE REST ROOM SIGNS AT DOORS 100A AND 102A. SIGNS TO BE PROVIDED BY COMPLIANCE SIGN OR EQUAL, PHONE # 1-800-578-1245. SIGN TYPE TO BE 6"x 9" WHITE ON BLUE, SIGN TYPE RRE-150 PAIRED SET.

GENERAL NOTES

- GENERAL CONTRACTOR SHALL MAINTAIN VEHICLE ACCESS AT ALL TIMES TO ALL EXISTING BUILDINGS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF EXISTING ASPHALT, FENCING, LANDSCAPING, ETC. DISTURBED OR DESTROYED DURING CONSTRUCTION.
- ALL INTERIOR CONCRETE SHALL SLOPE TOWARDS FLOOR DRAINS. ALL EXTERIOR CONCRETE SHALL SLOPE AWAY FROM STRUCTURE
- UPON COMPLETION OF CONSTRUCTION IT IS THE GENERAL CONTRACTOR RESPONSIBILITY TO THOROUGHLY CLEAN ALL AREAS OF CONSTRUCTION.

FLOOR PLAN LEGEND

- W.M.F. ☉ — WALL MOUNTED FIRE EXTINGUISHER, SEE SPECIFICATION
- 100A — DOOR TAG
- RM. NAME 100 — ROOM TAG
- Ⓜ — WINDOW TAG, SEE WINDOW TYPES
- W.H. — WATER HEATER, SEE ELECTRICAL AND PLUMBING DRAWINGS
- F.D. — FLOOR DRAIN, SEE PLUMBING DRAWINGS
- NEW 8" MASONRY WALLS, SEE ELEVATIONS AND WALL SECTIONS
- E.P. — ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS



01 AFP100
 PLAN NORTH
FLOOR PLAN
 SCALE 1/4" = 1'-0"

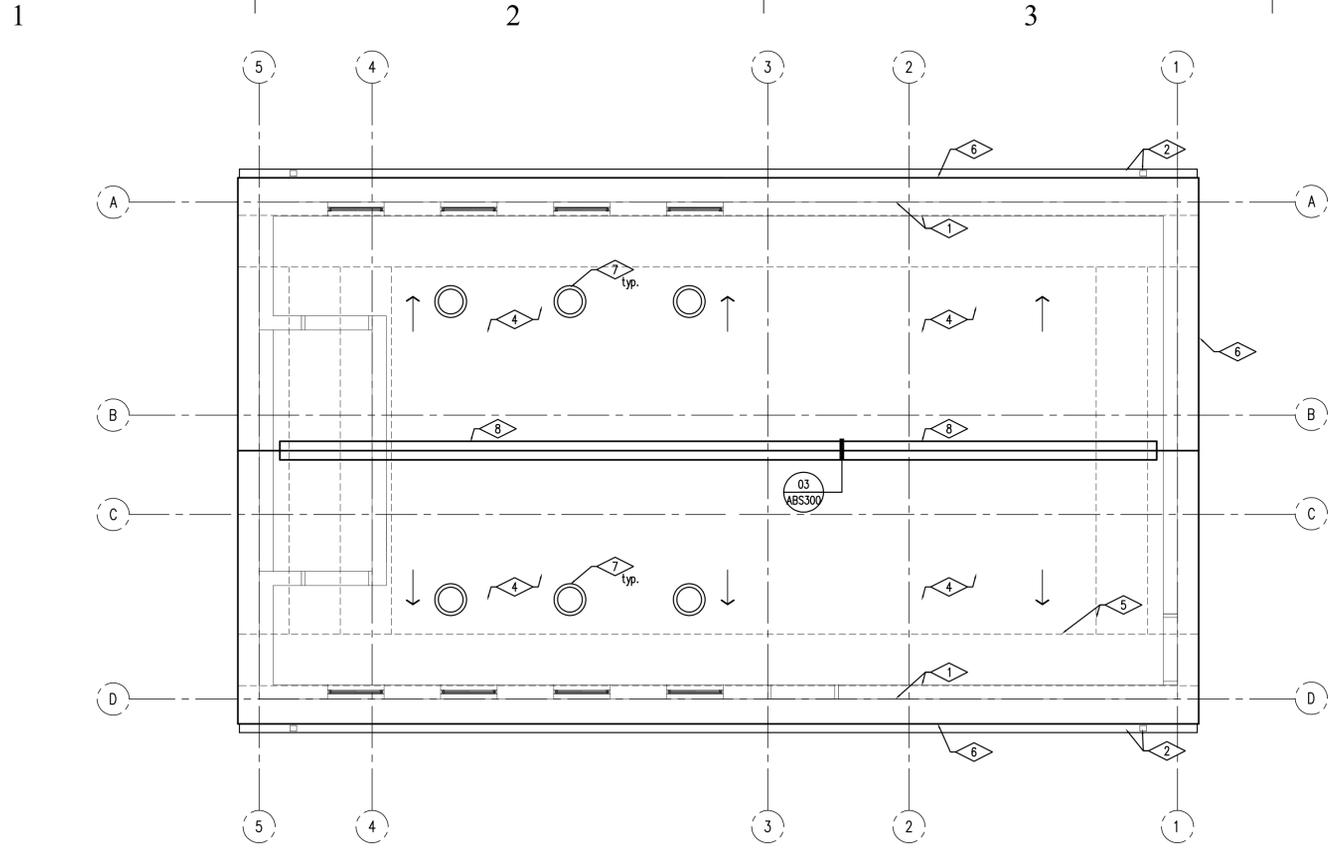
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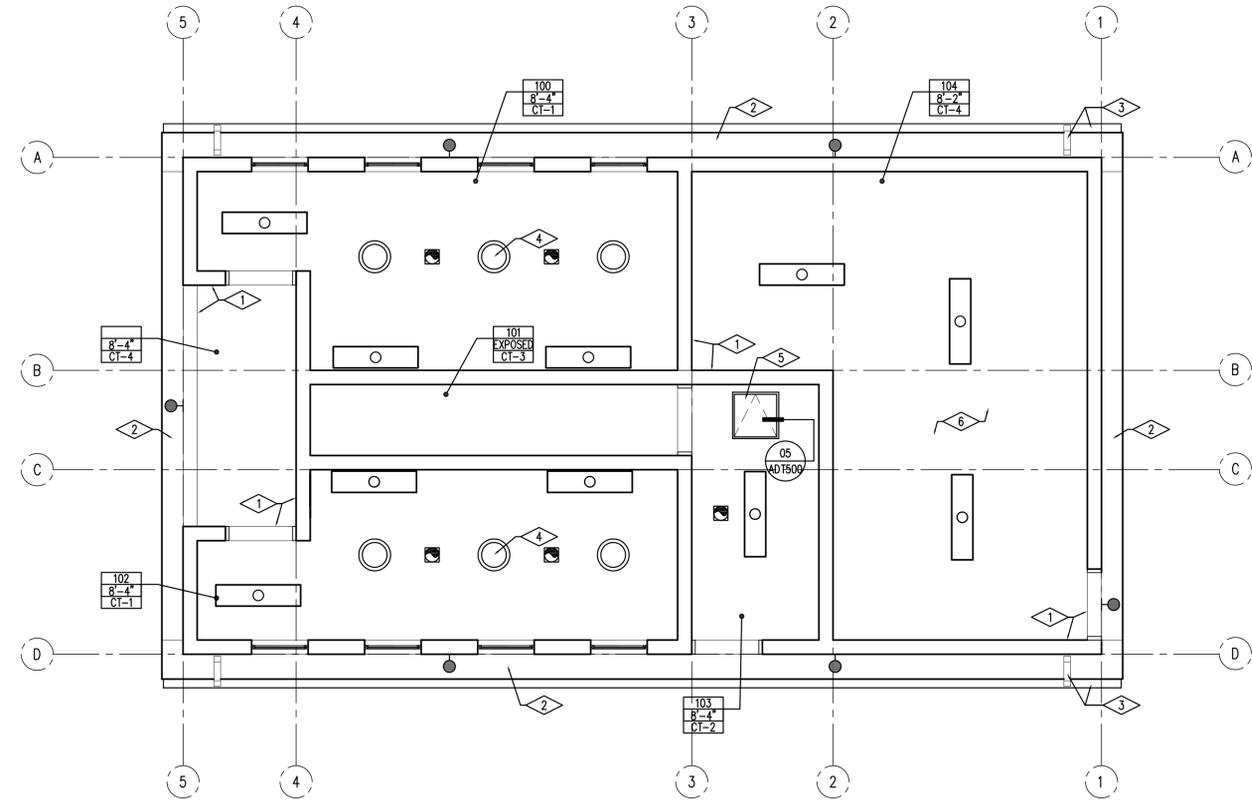
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01 ACP101 SCALE 1/4" = 1'-0" ROOF PLAN



01 ACP101 SCALE 1/4" = 1'-0" REFLECTED CEILING PLAN

REFERENCE NOTES ROOF PLAN

- 1 DASHED LINE INDICATES WALL BELOW
- 2 NEW ANODIZED ALUMINUM RAINGUTTERS WITH DOWN SPOUT LOCATIONS AS SHOWN. GENERAL CONTRACTOR TO EXTEND BASE OF DOWN SPOUT 1'-8" FROM FACE OF BUILDING. GENERAL CONTRACTOR SHALL PROVIDE PRECAST CONCRETE SPLASH AT DOWN SPOUT LOCATIONS
- 3 NEW ASPHALT SHINGLE RIDGE VENTS. NEW RIDGE VENT SHALL PROVIDE REQUIRED ATTIC VENTILATION AS PER I.B.C. 1203.2. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/60 OF THE AREA OF THE SPACE VENTILATED, WITH 50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY RIDGE VENT. GENERAL CONTRACTOR TO VERIFY
BUILDING AREA = 950 SQUARE FEET
NET FREE AREA 1/60 * 950 = 6.5 SQUARE INCHES OF RIDGE VENT SPACE REQUIRED
- 4 NEW 30 YEAR ASPHALT SHINGLES OVER 30 lb. ROOFING FELT SEE SPECIFICATION
- 5 DASHED LINE INDICATES NEW ICE AND WATER SHIELD. ICE AND WATER SHIELD SHALL CONFORM TO ASTM D226 TYPE 1 AND TO HAVE A MINIMUM OF TWO ROWS FROM EDGE OF ROOF
- 6 NEW PREFINISHED METAL DRIP EDGE AT PERIMETER OF ROOF, SEE DETAIL 03/AD7500
- 7 "SOLATUBE" 290 DS WITH PITCHED FLASHING, FLASHING INSULATOR, DOME EDGE PROTECTION BAND AND VISION DIFFUSER WITH WARM SOFTENING EFFECTS LENS. PROVIDE "SPECTRALIGHT INFINITY EXTENSION TUBES AND SPECTRALIGHT INFINITY EXTENSION TUBES AND ELBOWS AS REQUIRED. PROVIDE FLASHING TURRET EXTENSIONS AS NEEDED.
- 8 NEW ASPHALT SHINGLE RIDGE VENT, SEE DETAIL AND SPECIFICATION

GENERAL NOTES ROOF PLAN

1. GENERAL CONTRACTOR MUST VISIT THE SITE SO AS TO BE FAMILIAR WITH ALL EXISTING CONDITIONS. BRING ANY QUESTIONS OR CONCERNS TO THE ATTENTION OF THE PROJECT MANAGER FOR CLARIFICATION, FOR ADDENDUM PRIOR TO BID OPENING. NO ALLOWANCES WILL BE MADE FOR CONDITIONS THAT ARE CLEARLY VISIBLE.
2. ALL SAFETY STANDARD AND REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. BEFORE FABRICATION OF ANY SHEET METAL WORK, SUBMIT SHOP DRAWINGS TO PROJECT ARCHITECT FOR REVIEW AND APPROVAL.
4. COMPLY WITH ALL MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
5. GENERAL CONTRACTOR RESPONSIBLE TO KEEP BUILDING WATERTIGHT AT ALL TIMES. STARTING FROM NOTICE TO PROCEED TO SUBSTANTIAL COMPLETION ANY DAMAGE TO THE BUILDING AND ITS CONTENTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING ANY MATERIALS. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. DO NOT SCALE DRAWINGS FOR QUANTITIES.
7. AT THE END OF CONSTRUCTION, CONTRACTOR IS TO CLEAN OUT AND FLUSH ALL RAIN GUTTERS AND DOWN SPOUTS TO MAKE SURE THEY ARE NOT PLUGGED AND ARE IN WORKING CONDITION.
8. PROVIDE SEALANT AND PAINT ALL ROOF PENETRATIONS. NOTE: DO NOT PAINT ALUMINUM OR STAINLESS STEEL HOODS, VENTS, ETC.
9. USE STAINLESS STEEL OR ALUMINUM FASTENERS AT ALUMINUM METAL FINISH LOCATIONS.

LEGEND ROOF PLAN

← ARROW INDICATES DIRECTION OF SLOPE

REFLECTED CEILING PLAN REFERENCE NOTES

- 1 GENERAL CONTRACTOR SHALL PROVIDE MUDABLE "J" METAL TRIM AT PERIMETER OF GYPSUM BOARD CEILINGS.
- 2 PRE-FINISHED, VENTED ALUMINUM SOFFIT SYSTEM.
- 3 NEW ANODIZED ALUMINUM RAINGUTTERS WITH DOWN SPOUT LOCATIONS AS SHOWN. GENERAL CONTRACTOR TO EXTEND BASE OF DOWN SPOUT 1'-8" FROM FACE OF BUILDING. GENERAL CONTRACTOR SHALL PROVIDE PRECAST CONCRETE SPLASH AT DOWN SPOUT LOCATIONS
- 4 "SOLATUBE" 290 DS WITH PITCHED FLASHING, FLASHING INSULATOR, DOME EDGE PROTECTION BAND AND VISION DIFFUSER WITH WARM SOFTENING EFFECTS LENS. PROVIDE "SPECTRALIGHT INFINITY EXTENSION TUBES AND SPECTRALIGHT INFINITY EXTENSION TUBES AND ELBOWS AS REQUIRED. PROVIDE FLASHING TURRET EXTENSIONS AS NEEDED.
- 5 22"x30" ATTIC ACCESS PANEL, SEE DETAIL AND SPECIFICATION
- 6 PRIMED AND PAINTED U.L. 1 HOUR FIRE RATED CEILING ASSEMBLY AS PER C.A. FILE NO. WP 1311, IN STORAGE ROOM, SEE DETAIL 08/AD7500

REFLECTED CEILING PLAN LEGEND

- SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
- NEW WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 101 ROOM NUMBER
- 9'-0" CEILING HEIGHT
- CI CEILING TYPE
- 22" WIDE x 30" LONG CEILING ACCESS DOOR. GENERAL CONTRACTOR TO COORDINATE ACTUAL LOCATION TO MATCH MECHANICAL, ELECTRICAL AND STRUCTURAL EQUIPMENT LOCATED ABOVE CEILING. SEE MECHANICAL AND ELECTRICAL DRAWINGS.
- ☐ CEILING EXHAUST FAN, SEE MECHANICAL DRAWINGS

GENERAL NOTES

1. NOTE

State of Utah
Department of Administrative Services

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

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STATE OF UTAH
261110
LICENSED ARCHITECT

architecture planning design

CONSULTANT:

PROJECT TITLE:
UTAH VALLEY UNIVERSITY
OREM, UTAH

NEW INTRAMURAL FIELD
RESTROOM BUILDING

MARK	DATE	DESCRIPTION

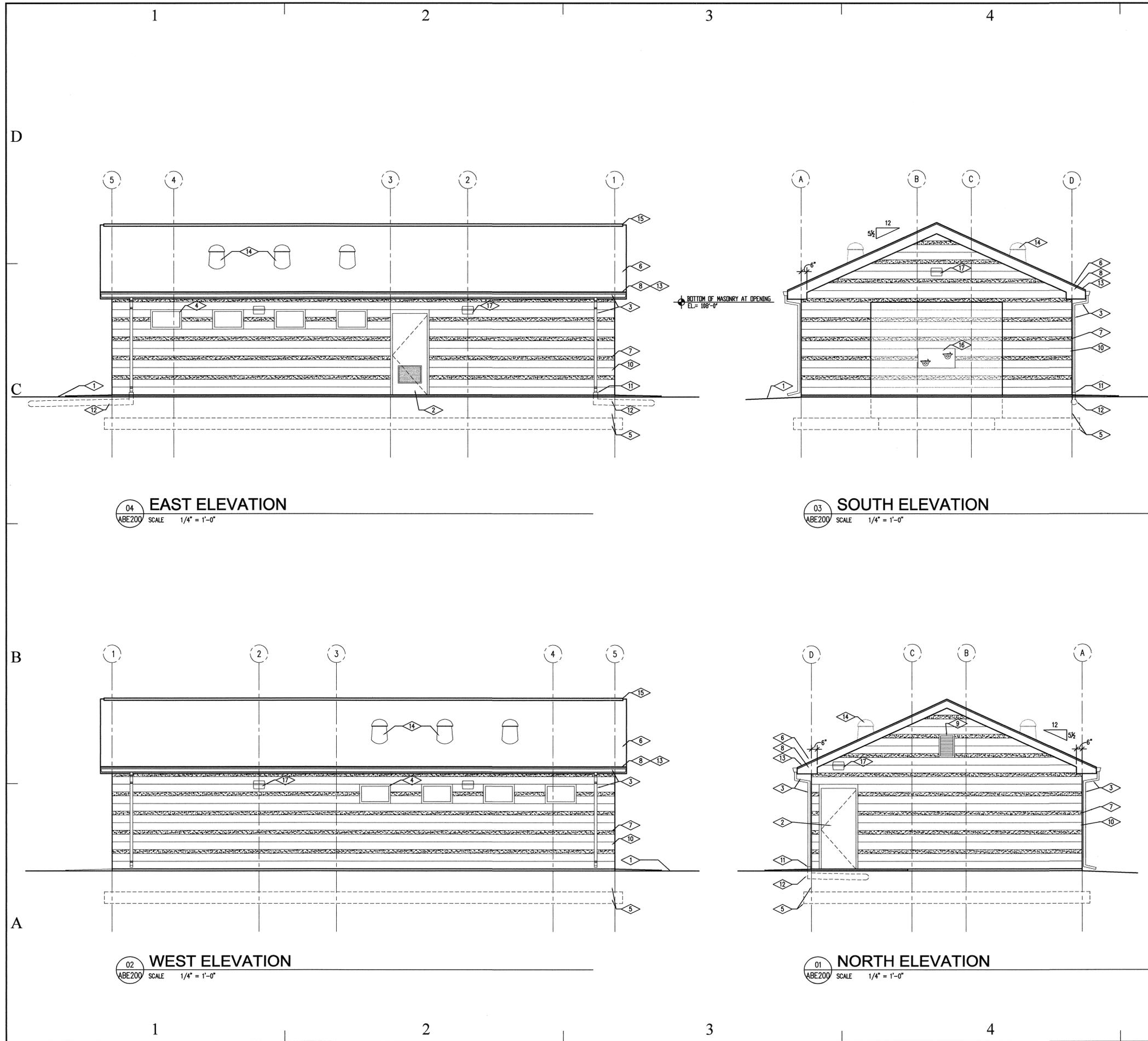
ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790
CAD PROJECT NO:
CAD DWG FILE:
DRAWN BY: BRIAN AND SCOTT
CHK'D BY: SCOTT
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SHEET TITLE
CEILING PLAN AND ROOF PLAN

SHEET NUMBER
A-CP101



5
REFERENCE NOTES

- 1 FINISH GRADE
- 2 HOLLOW METAL DOOR AND FRAME PRIMED AND PAINTED
- 3 PREFINISHED ALUMINUM RAIN GUTTERS AND DOWNSPOUTS
- 4 VINYL WINDOW SYSTEM, SEE WINDOW SCHEDULE AND DETAILS
- 5 FOOTING & FOUNDATION SYSTEM, SEE STRUCTURAL
- 6 30 YEAR ARCHITECTURAL GRADE ASPHALT SHINGLES OVER 15 lb ASPHALT IMPREGNATED ROOFING FELT. SEE ROOF PLAN FOR ICE AND WATER SHIELD LOCATIONS.
- 7 HATCH PATTERN INDICATES LOCATION OF 4" COLORED, HONED MASONRY.
- 8 PREFINISHED METAL FASIA, SEE SPECIFICATION.
- 9 ANODIZED ALUMINUM 16" WIDE X 24" HIGH EXHAUST GRILL.
- 10 8" COLORED, SPLIT FACED MASONRY.
- 11 PROVIDE 6" DIA PVC ELBOW AT TOP OF CONCRETE SLAB EXTENDED 6" PVC PIPING TO 6" ABOVE TOP OF CONCRETE SLAB, SEE FLOOR PLAN
- 12 6" BURRIED PVC PIPE TO RUN UNDER CONCRETE SLAB, GENERAL CONTRACTOR SHALL EXTEND BURRIED PIPE TO LOCATION SHOWN ON FLOOR PLAN
- 13 PREFINISHED METAL DRIP EDGE, SEE ROOF PLAN.
- 14 "SOLATUBE" 290 DS WITH PITCHED FLASHING, FLASHING INSULATOR, DOME EDGE PROTECTION BAND AND VISION DIFFUSER WITH WARM SOFTENING EFFECTS LENS. PROVIDE "SPECTRALIGHT INFINITY EXTENSION TUBES AND SPECTRALIGHT INFINITY EXTENSION TUBES AND ELBOWS AS REQUIRED. PROVIDE FLASHING TURRET EXTENSIONS AS NEEDED.
- 15 ASPHALT SHINGLE RIDGE VENT, SEE ROOF PLAN AND DETAIL.
- 16 DRINKING FOUNTAIN. GENERAL CONTRACTOR TO VERIFY SIZE OF MOUNTING PLATE AND MOUNTING HEIGHT. GENERAL CONTRACTOR SHALL VERIFY LOCATION WITH ARCHITECT PRIOR TO MASONRY WALL CONSTRUCTION. PROVIDE SMOOTH FACED MASONRY BEHIND MOUNTING PLATE. SEE PLUMBING DRAWINGS.
- 17 EXTERIOR LIGHT FIXTURE, SEE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL MAINTAIN VEHICLE ACCESS AT ALL TIMES TO ALL EXISTING BUILDINGS.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF EXISTING ASPHALT, FENCING, LANDSCAPING, ETC. DISTURBED OR DESTROYED DURING CONSTRUCTION.
3. ALL SPLIT FACED AND HONED MASONRY ON EXTERIOR SURFACES ONLY. INTERIOR MASONRY TO BE PLAIN FACED.

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architecture | planning | design

CONSULTANT:

PROJECT TITLE:

UTAH VALLEY UNIVERSITY OREM, UTAH

NEW INTRAMURAL FIELD RESTROOM BUILDING

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790

CAD PROJECT NO:

CAD DWG FILE:

DRAWN BY: BRIAN AND SCOTT

CHK'D BY: SCOTT

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SHEET TITLE

BUILDING ELEVATIONS

SHEET NUMBER

A-BE200



REFERENCE NOTES

- 1 EPOXY PAINT OVER BLOCK FILLER SEE SPECIFICATION
- 2 BAKED ENAMEL, METAL TOILET PARTITIONS, SEE SPECIFICATION SECTION 10155
- 3 ACCESSIBLE WATER CLOSET, SEE PLUMBING DRAWINGS
- 4 WALL MOUNTED GRAB BAR, SEE SPECIFICATION SECTION 09653
- 5 SOAP DISPENSER, SEE SPECIFICATION
- 6 JANITORS FLOOR SINK, SEE PLUMBING DRAWINGS
- 7 WALL MOUNTED A.D.A. URINAL, SEE PLUMBING DRAWINGS
- 8 WALL MOUNTED WATER CLOSET, SEE PLUMBING DRAWINGS
- 9 LAVATORY, SEE PLUMBING DRAWINGS
- 10 PAPER TOWEL DISPENSER, SEE SPECIFICATION
- 11 MOP RACK, SEE SPECIFICATION SECTION 09653
- 12 URINAL SCREEN, SEE INTERIOR ELEVATIONS & SPECIFICATION SECTION 10155
- 13 SANITATION SEAT COVERING DISPENSER, SEE SPECIFICATION
- 14 TOILET PAPER DISPENSER, SEE SPECIFICATION
- 15 MIRROR, SEE SPECIFICATION
- 16 CONTRACTOR SHALL PROVIDE ADA PIPE PROTECTION AT ALL EXPOSED PIPING
- 17 VINYL WINDOW, SEE WINDOW TYPE
- 18 PRIMED AND PAINTED HOLLOW METAL DOOR, SEE DOOR SCHEDULE AND SPECIFICATION
- 19 WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 20 WASTE RECEPTACLE, SEE SPECIFICATIONS
- 21 6" COVED RUBBER BASE, SEE SPECIFICATIONS
- 22 ADA PIPE PROTECTION.
- 23 FIBERGLASS REINFORCED PANELS ADHEARED TO MASONRY WALL, SEE SPECIFICATION.
- 24 WALL MOUNTED URINAL, SEE PLUMBING DRAWINGS
- 25 1"x6" CEMENTICIOUS FIBER BOARD CUT TO FIT, PRIMED AND PAINTED.
- 26 MOP RACK, SEE SPECIFICATION.

GENERAL NOTES

1. REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES
2. CONTRACTOR TO FIELD VERIFY LOCATION AND PLACEMENT OF ALL FIXTURES AND ACCESSORIES AND COORDINATE WITH A.D.A. REQUIREMENTS
3. CONTRACTOR SHALL PROVIDE ADA PIPE PROTECTION AT ALL EXPOSED PIPING
4. GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING AND ADDITIONAL STUDS AS REQUIRED FOR INSTALLATION OF TOILET PARTITIONS, URINAL SCREENS, ALL PLUMBING FIXTURES, APPLIANCES, COUNTER TOPS ETC. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL BACKING REQUIRED TOILET ROOM ACCESSORIES.

CONSULTANT:

PROJECT TITLE:

UTAH VALLEY UNIVERSITY
OREM, UTAH

NEW INTRAMURAL FIELD
RESTROOM BUILDING

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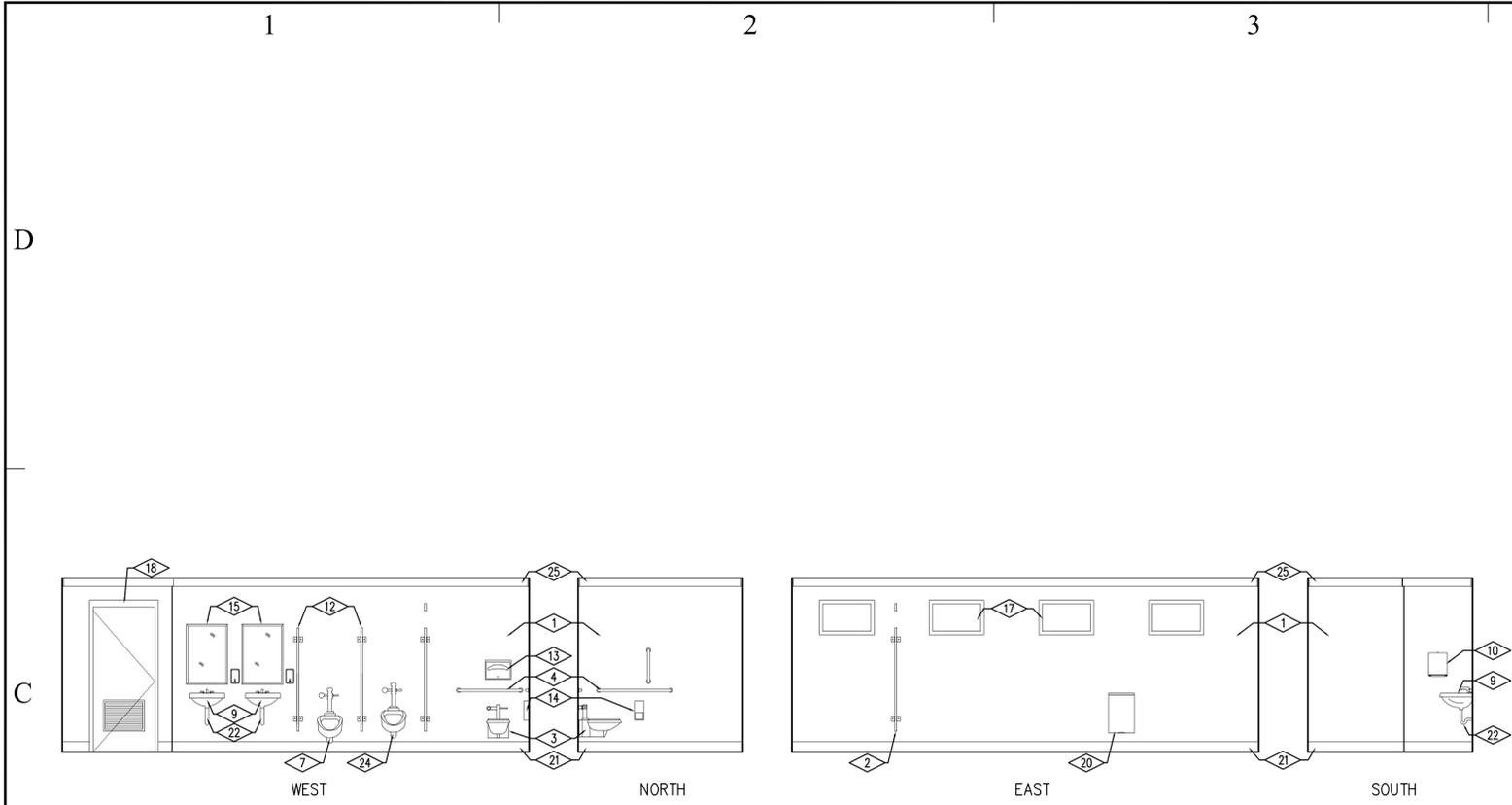
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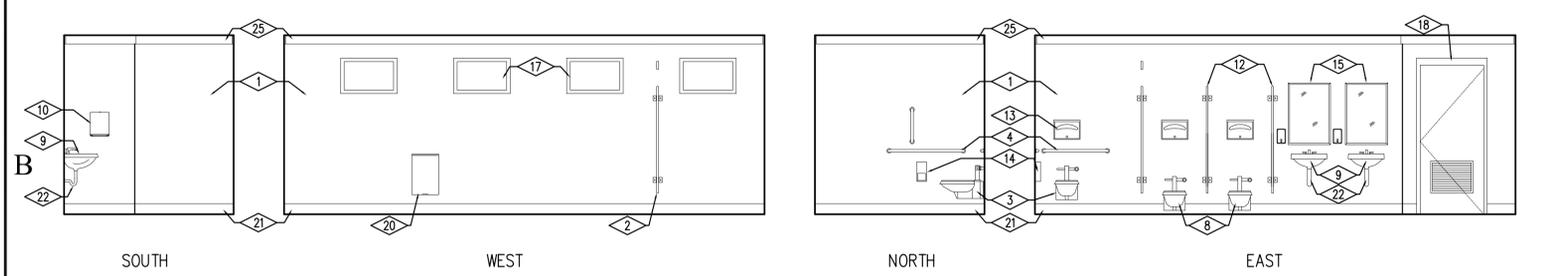
INTERIOR
ELEVATIONS

SHEET NUMBER

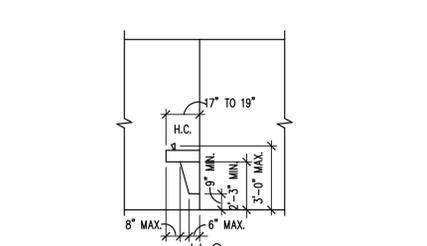
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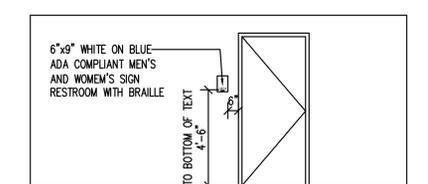
05 INTERIOR ELEVATION MENS 102
SCALE 1/4" = 1'-0"



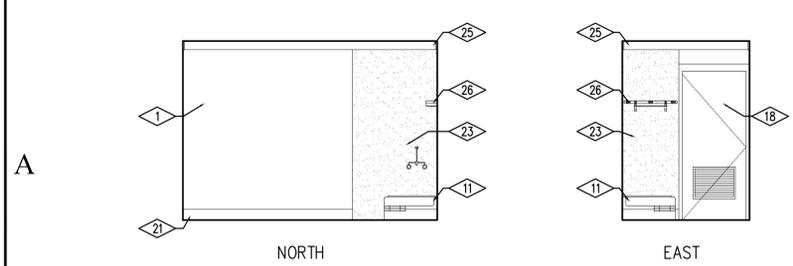
04 INTERIOR ELEVATION WOMENS 100
SCALE 1/4" = 1'-0"



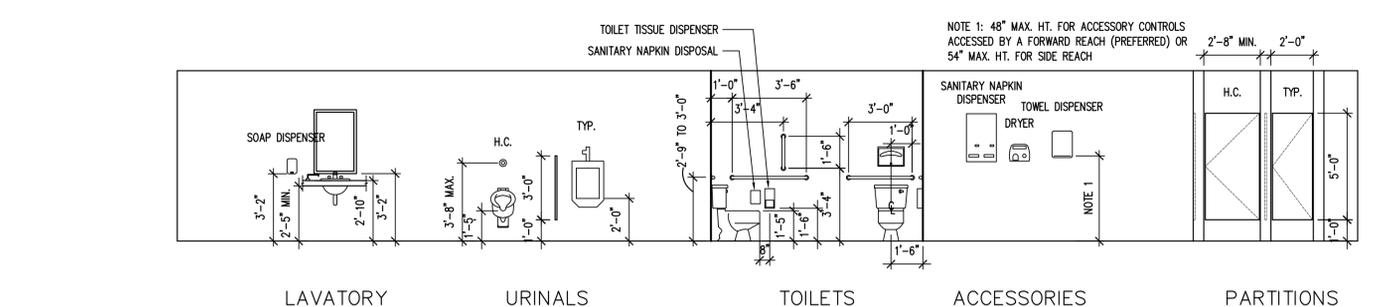
03 H.C. DRINKING FOUNTAIN
MOUNTING HEIGHT
SCALE 1/4" = 1'-0"



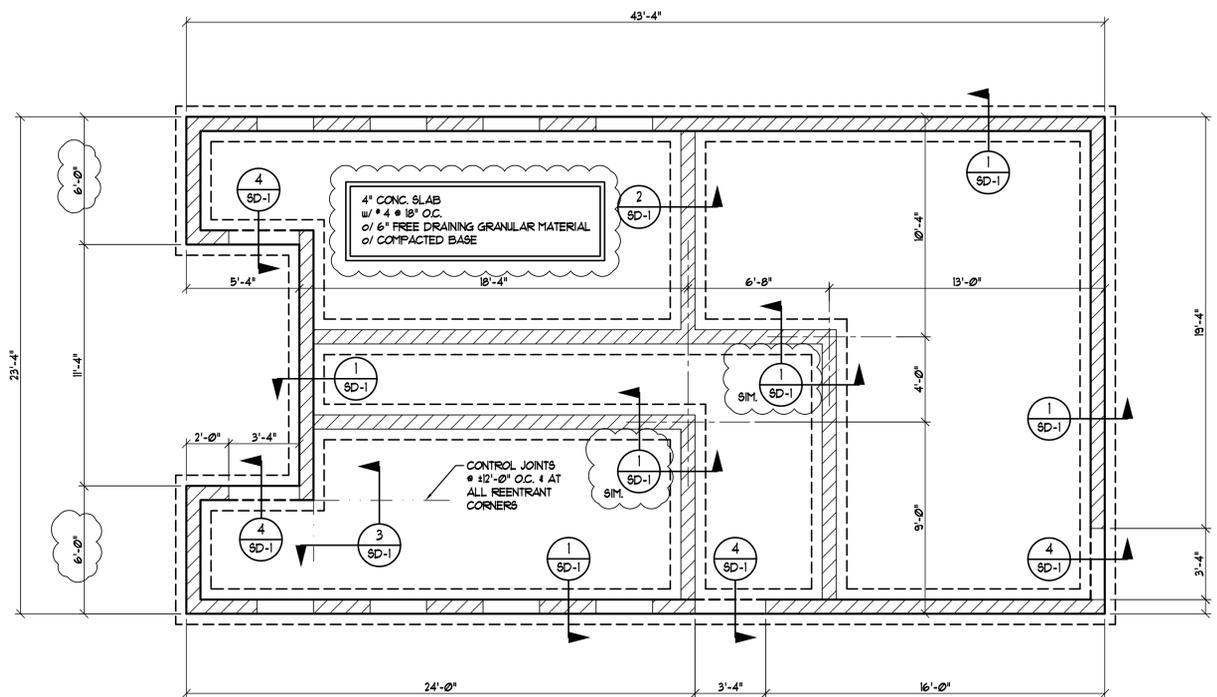
03 BUILDING SIGNAGE
SCALE 1/4" = 1'-0"



02 INTERIOR ELEVATION UTILITY 103
SCALE 1/4" = 1'-0"



01 STANDARD MOUNTING HEIGHTS
SCALE 1/4" = 1'-0"

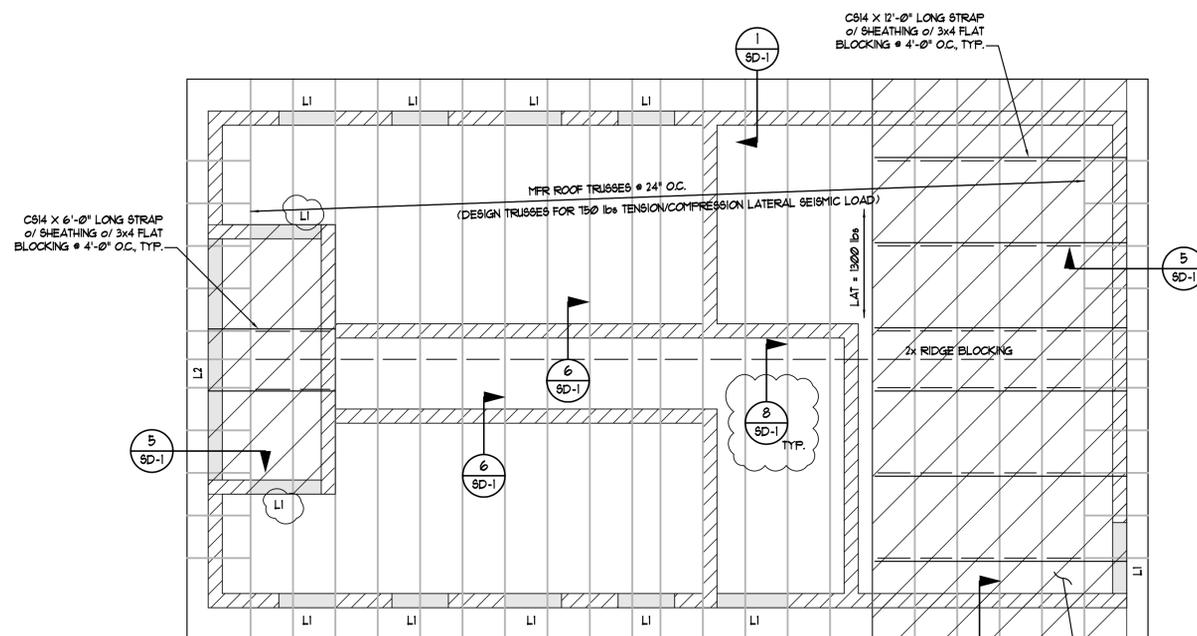


FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION NOTES:

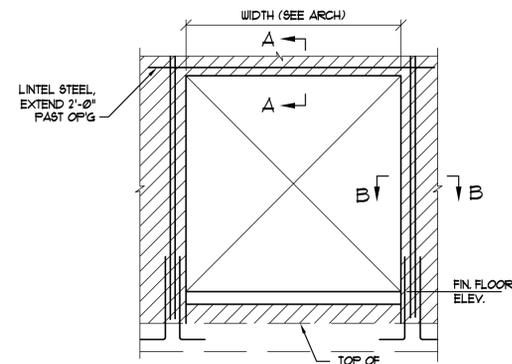
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- ALL CMU WALLS REQUIRE LEVEL 1 SPECIAL INSPECTION PER IBC TABLE 1704.5.1
- SEE SHEET SD-1 FOR TYPICAL CMU DETAILS AND LINTEL AND JAMB REIN. SPECIFICATIONS.
- Lx = CMU LINTEL, SEE DETAIL 1/SD-1



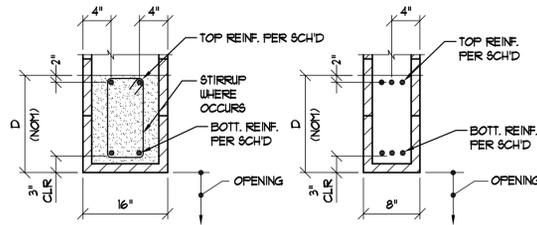
ROOF FRAMING PLAN

1/4" = 1'-0"

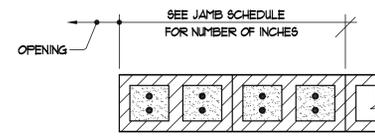
ROOF SHEATHING, TYP.
SEE STRUCTURAL GENERAL NOTES SHEET 81, AREAS OF ROOF SHOWN HATCHED TO BE BLOCKED AT ALL UNSUPPORTED EDGES AND NAILED W/ 8d NAILS @ 4" O.C. ALL EDGES.



TYPICAL LINTEL

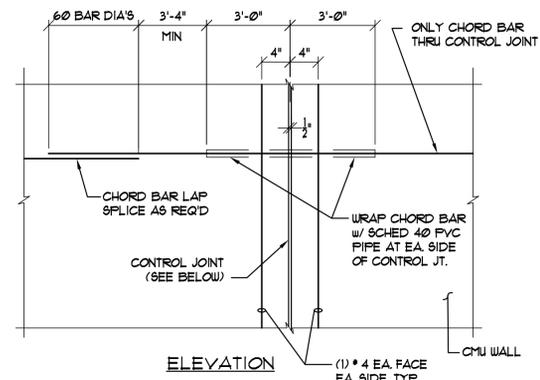


SECTION AA

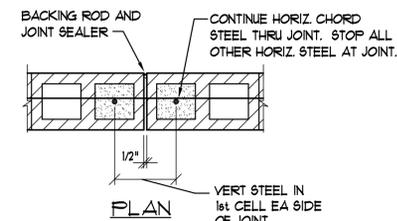


PLAN SECTION BB

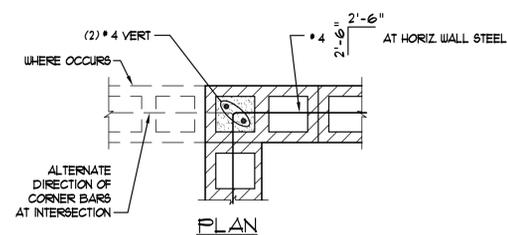
CMU LINTEL SCHEDULE								
MARK	WIDTH	DEPTH 'D'	BOTT REINF	TOP REINF	STIRRUPS	SPECIAL INSPECTION	JAMB STEEL	JAMB SIZE
L1	8'-0"	8"	(2) * 4	(2) * 4	NONE	YES	* 4 EA. FACE, EA CELL	8" x 8"
L2	8'-0"	1'-4"	(2) * 4	(2) * 4	NONE	YES	* 4 EA. FACE, EA CELL	8" x 8"



ELEVATION TYPICAL CHORD SPLICES



PLAN TYPICAL CONTROL JT DETAIL

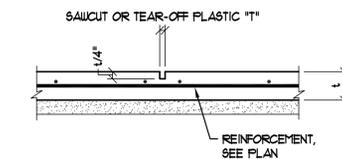


PLAN TYPICAL CORNER / INTERSECTION DETAIL

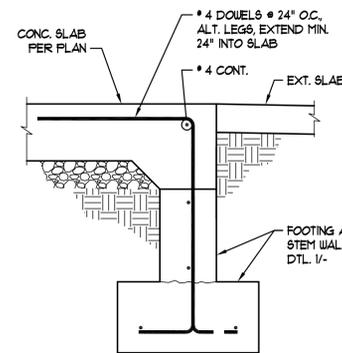
STANDARD CMU DETAILS

N.T.S.

N.T.S.

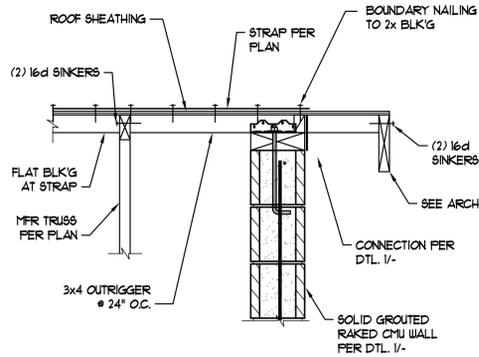


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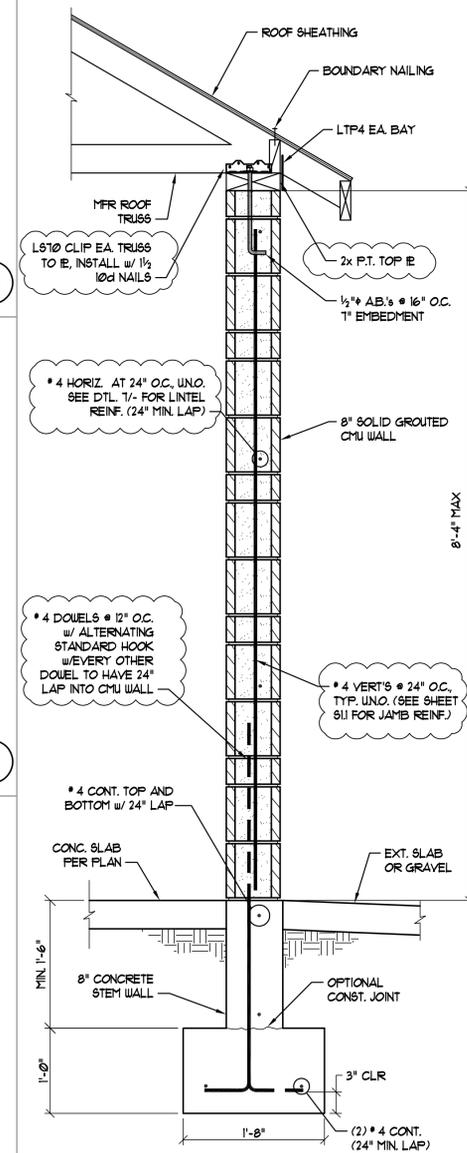
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N.T.S.



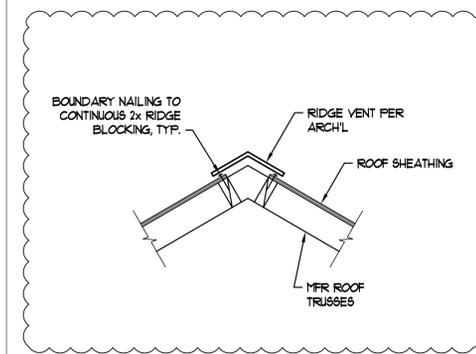
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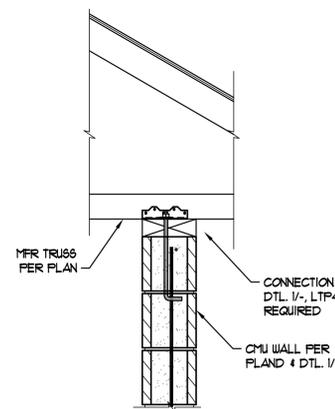
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N.T.S.



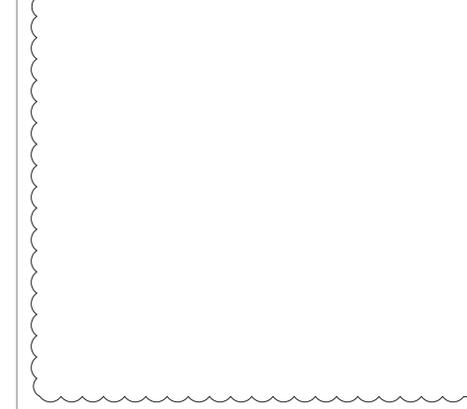
8

N.T.S.



6

N.T.S.



NOT USED

2

N.T.S.

State of Utah

Department of Administrative Services

Division of Facilities Construction & Management
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Fax: (801) 538 - 3267

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



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U1044-016-101

PROJECT TITLE:

UTAH VALLEY UNIVERSITY OREM, UTAH

NEW INTRAMURAL FIELD RESTROOM BUILDING

MARK	DATE	DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS		

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790
CAD PROJECT NO:
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DRAWN BY: BRIAN AND SCOTT
CHK'D BY: SCOTT
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SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

SD-1

SPECIAL INSPECTION AND TESTING (IBC 1704)

Indicate required Special inspections for project by checking the appropriate boxes:

FABRICATORS (IBC1704.2)

Form for fabricator information including name, approval status, and inspection types.

STEEL (IBC1704.3)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes sections for High Strength Bolting, Welding, and Reinforcement Steel.

CONCRETE CONSTRUCTION (IBC1704.4)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes sections for Materials, Steel placement, and Concrete sampling.

MASONRY CONSTRUCTION (IBC1704.5)

Table with columns for Item and Reference/Comments. Includes 'As masonry construction begins'.

Main inspection table with columns for Item, Continuous, and Periodic. Includes sections for Mortar joints, Grout, and Masonry.

WOOD CONSTRUCTION (IBC1704.6)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Prefabricated elements & assembly'.

SOILS CONSTRUCTION (IBC1704.7)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Site preparation'.

Table with columns for Item, Continuous, and Periodic. Includes sections for Structural fill material and Backfill soils materials.

PILE FOUNDATIONS (IBC1704.8)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Observe driving operation and reporting'.

PIER FOUNDATIONS (IBC1704.9)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Observe drilling operation and reporting'.

SPRAYED FIRE-RESISTANT MATERIALS (IBC1704.10)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes sections for Structural member surface and Material application.

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC1704.11)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Material and installation'.

EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC1704.12)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Material and installation'.

ALTERNATIVE CONSTRUCTION METHODS OR MATERIALS (IBC1704.13)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Material and installation'.

EPOXY (IBC1704.13)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Material and installation'.

SMOKE CONTROL (IBC1704.14)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Material'.

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes 'Instillation'.

Special inspection for seismic resistance (IBC1707)

Table with columns for Item, Reference/Comments, Continuous, and Periodic. Includes sections for Structural Steel, Cold-formed steel framing, and Seismic isolation systems.

OTHER

Table with columns for Item, Reference/Comments, Continuous, and Periodic.

Special Inspectors Shall:

- List of requirements for special inspectors, including approval by Building Official and submission of reports.

State of Utah

Department of Administrative Services



Division of Facilities Construction & Management, 4110 State Office Building, Salt Lake City, Utah 84114

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



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P+A architects

821 East Kensington Ave. Salt Lake City, Utah 84105



architecture planning design

CONSULTANT:



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U1044-016-101

PROJECT TITLE:

UTAH VALLEY UNIVERSITY OREM, UTAH

NEW INTRAMURAL FIELD RESTROOM BUILDING

MARK DATE DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790

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DRAWN BY: BRIAN AND SCOTT

CHK'D BY: SCOTT

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SHEET TITLE

SPECIAL INSPECTION

SHEET NUMBER

SD-2

D

C

B

A

D

C

B

A

MECHANICAL

	POSITIVE PRESSURE DUCT - RISE
	POSITIVE PRESSURE DUCT - DROP
	NEGATIVE PRESSURE DUCT - RISE
	NEGATIVE PRESSURE DUCT - DROP
	ROUND DUCT - RISE
	ROUND DUCT - DROP
	UNDER FLOOR DUCT
	TURNING VANES
	FRESH AIR LOUVER
	RELIEF AIR OR EXHAUST AIR LOUVER
	CEILING SUPPLY DIFFUSER
	CEILING RETURN REGISTER
	CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
	SIDEWALL SUPPLY REGISTER
	SIDEWALL EXHAUST OR RETURN REGISTER
	CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
	CEILING AIR GRILLE WITH FLEXIBLE DUCT
	CEILING RETURN AIR GRILLE W/ SOUND BOOT
	LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
	FAN
	FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	INCLINED RISE
	INCLINED DROP
	R/W=1 ROUND DUCT SIMILAR TO RECTANGULAR
	RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
	RECTANGULAR TO ROUND DUCT TRANSFORMATION
	BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
	TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
	HIGH EFFICIENCY FITTING
	MANUAL VOLUME DAMPER
	FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
	SMOKE DAMPER W/ ACCESS PANEL
	BACK DRAFT DAMPER
	ATC DAMPER
	ACCESS PANEL IN DUCT OR PLENUM
	HEATING OR COOLING COIL IN DUCT
	SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
	4-WAY BLOW PATTERN
	3-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	1-WAY BLOW PATTERN
	DUCT SMOKE DETECTOR
	UNIT HEATER

PLUMBING

	FLOOR SINK
	FLOOR DRAIN
	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
	ROOF DRAIN
	DOWNSPOUT NOZZLE
	ARROW INDICATES DIRECTION OF FLOW IN PIPE
	CHECK VALVE
	PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
	PRESSURE REDUCING, SELF CONTAINED VALVE
	ATC VALVE - 2 WAY
	ATC VALVE - 3 WAY
	SOLENOID VALVE
	GATE VALVE
	GATE VALVE - NON RISING STEM
	GLOBE VALVE
	TEMPERATURE AND PRESSURE TEST PORT
	PRESSURE SWITCH
	GAS COCK
	CALIBRATED BALANCING VALVE WITH GPM INDICATED
	REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	RISE OR DROP
	RISE - DOWN (ELBOW)
	RISE - DOWN (ELBOW)
	VENT THRU ROOF
	WATER HAMMER ARRESTOR
	INLINE PUMP
	INLINE PUMP
	CLEAN-OUT
	RELIEF VALVE
	ANGLE VALVE
	FLOW METER
	UNION
	BALANCING COCK
	SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
	FLEXIBLE EXPANSION JOINT
	THERMOMETER - TEMP RANGE AS INDICATED
	PRESSURE GAUGE WITH SHUT-OFF COCK
	PRESSURE GAUGE WITH PIGTAIL
	LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
	BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
	MOTOR OPERATED BUTTERFLY VALVE
	VALVE IN RISE
	AIR VENT-MANUAL
	AIR VENT-AUTO
	FLOW SWITCH
	REDUCER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

PLUMBING CONT.

	THERMOSTATIC MIXING VALVE
	HOSE BIBB
	PIPE CAP
	SWITCH
	SENSOR
	THERMOSTAT
	NIGHT THERMOSTAT
	FILL PORT
	DRAIN PAN AND P-TRAP
	FIXTURE FROM LEVEL ABOVE
	FLOW METER ORIFICE
	FLANGE
	90° ELBOW
	STEAM TRAP, F&T=FLOAT & THERMOSTATIC 45° ELBOW
	B=BUCKET, T=THERMOSTATIC
	LEADER INDICATES DOWNWARD SLOPE
	DEMOLITION
	ALIGNMENT GUIDE
	ANCHOR
	LUBRICATED PLUG COCK

SYMBOLS

	PLUMBING FIXTURES
	POINT OF CONNECTION
	SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
	EQUIPMENT IDENTIFICATION
	KEYED NOTE IDENTIFICATION

FIRE

	HOSE VALVE
	NRS GATE VALVE WITH SUPERVISION
	FLOW SWITCH
	FIRE RISER
	SPRINKLER HEAD
	FIRE SPRINKLER WATER

LINETYPES

	ACID VENT
	REVERSE OSMOSIS WATER SUPPLY
	REVERSE OSMOSIS WATER RETURN
	ROOF DRAIN
	ROOF DRAIN OVERFLOW
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	SEWER (BELOW GRADE)
	SEWER (ABOVE GRADE)
	SOFT DOMESTIC WATER (SW)
	VACUUM
	VENT (SEWER)
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHW-R)
	DEIONIZED WATER SUPPLY
	DEIONIZED WATER RETURN
	EXISTING PIPING
	EXISTING PIPING TO BE REMOVED
	GLYCOL HEAT RECOVERY PIPING
	GLYCOL PIPING SOLUTION
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	FUEL OIL VENT
	NATURAL GAS
	HOT GAS
	HELICOPTER FUEL RETURN
	HELICOPTER FUEL SUPPLY
	HIGH PRESSURE DOMESTIC WATER
	HIGH PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	HEATING HOT WATER RETURN
	HEATING HOT WATER SUPPLY
	INSTRUMENT AIR
	INSTRUMENT AIR AT PRESSURE INDICATED
	LAB AIR
	LAB VACUUM
	LOW PRESSURE CONDENSATE
	LIQUIFIED PETROLEUM GAS
	LOW PRESSURE STEAM
	MEDICAL AIR
	MEDICAL AIR AT PRESSURE INDICATED
	MEDIUM PRESSURE CONDENSATE
	MEDIUM PRESSURE STEAM
	MAKE UP WATER
	MEDICAL VACUUM
	NITROGEN
	NITROUS OXIDE
	MEDICAL OXYGEN
	MEDICAL OXYGEN AT PRESSURE INDICATED
	PUMPED CONDENSATE

MECH. GENERAL NOTES

- ALL CEILING EXHAUST GRILLES SHOWN AS SUCH ARE EG-1, CFM AS NOTED, UNLESS OTHER-WISE NOTED.
- DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
- COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS. ADJUST SHEET METAL DIMENSION FOR LINED DUCT.
- PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
- ALL DUCT AND FLUE PENETRATIONS THRU 1 HOUR ROOF ASSEMBLY TO BE ENCLOSED WITH 2 SHEET ROOF LAYERS FROM SHEET ROCK AT BOTTOM OF ROOF TRUSSES TO ROOF DECK.
- STEEL ROOF DECK SHALL NOT BE USED TO SUPPORT LOADS FROM PIPING, DUCTWORK OR EQUIPMENT, UNLESS NOTED OTHERWISE. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHEN HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED. THE ATTACHMENT METHOD MUST DISTRIBUTE THE LOAD ACROSS THE DECK AS APPROVED BY THE STRUCTURAL ENGINEER.

PLUMB. GENERAL NOTES

- PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- WATER, VENT PIPING SHOWN IS TO BE INSTALLED ABOVE THE CEILING UNLESS NOTED OTHERWISE.
- WASTE PIPING SHOWN IS TO BE INSTALLED BELOW THE FLOOR UNLESS NOTED OTHERWISE.
- INSTALL PIPING IN PLUMBING CHASES TO ALLOW FOR ACCESS TO THE BACK OF THE CHASE FOR SERVICE.
- DO NOT INSTALL PIPING ABOVE ELECTRICAL PANELS, VARIABLE FREQUENCY DRIVES OR MOTOR CONTROL CENTERS.
- INSTALL ALL PIPING SHOWN IN EXTERIOR WALLS ON THE WARM SIDE OF THE BUILDING INSULATION.
- INSTALL DOMESTIC WATER PIPING BELOW DUCTWORK UNLESS NOTED OTHERWISE.
- INSTALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. SHOWN IN THE CEILING SPACE NEAR THE CEILING FOR ACCESS.
- INSTALL DRAINAGE PIPING EXITING THE BUILDING 48" MINIMUM BELOW THE FINISHED GRADE.
- PROVIDE 2" MINIMUM WASTE AND VENT PIPING BELOW GRADE.
- PROVIDE 3" MINIMUM VENT THROUGH THE ROOF. PIPE SIZE TRANSITION SHALL OCCUR 12" BELOW BUILDING INSULATION.
- LOCATE VENTS THROUGH THE ROOF A MINIMUM OF 25' AWAY FROM AIR INTAKES AND OPENINGS INTO THE BUILDING.
- COORDINATE THE EXACT LOCATION OF FIXTURES AND DRAINS WITH THE ARCHITECTURAL DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
- VERIFY CONNECTION SIDE OF ALL ADA ACCESSIBLE FIXTURES AND ADJUST ROUGH-IN LOCATIONS ACCORDINGLY.
- PROVIDE CEILING ACCESS PANELS FOR ACCESS TO ALL PLUMBING EQUIPMENT, ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. LOCATED ABOVE SOLID CEILINGS.
- LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN HAVE BEEN TAKEN FROM A SITE SURVEY AND ARE APPROXIMATE. ONLY FIELD VERIFY EXACT LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO STARTING ANY WORK.

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MARK	DATE	DESCRIPTION
		ISSUE TYPE: CONSTRUCTION DOCUMENTS

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CAD PROJECT NO:	
CAD DWG FILE:	
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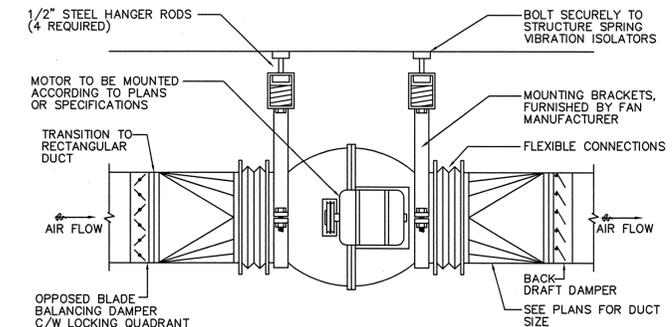
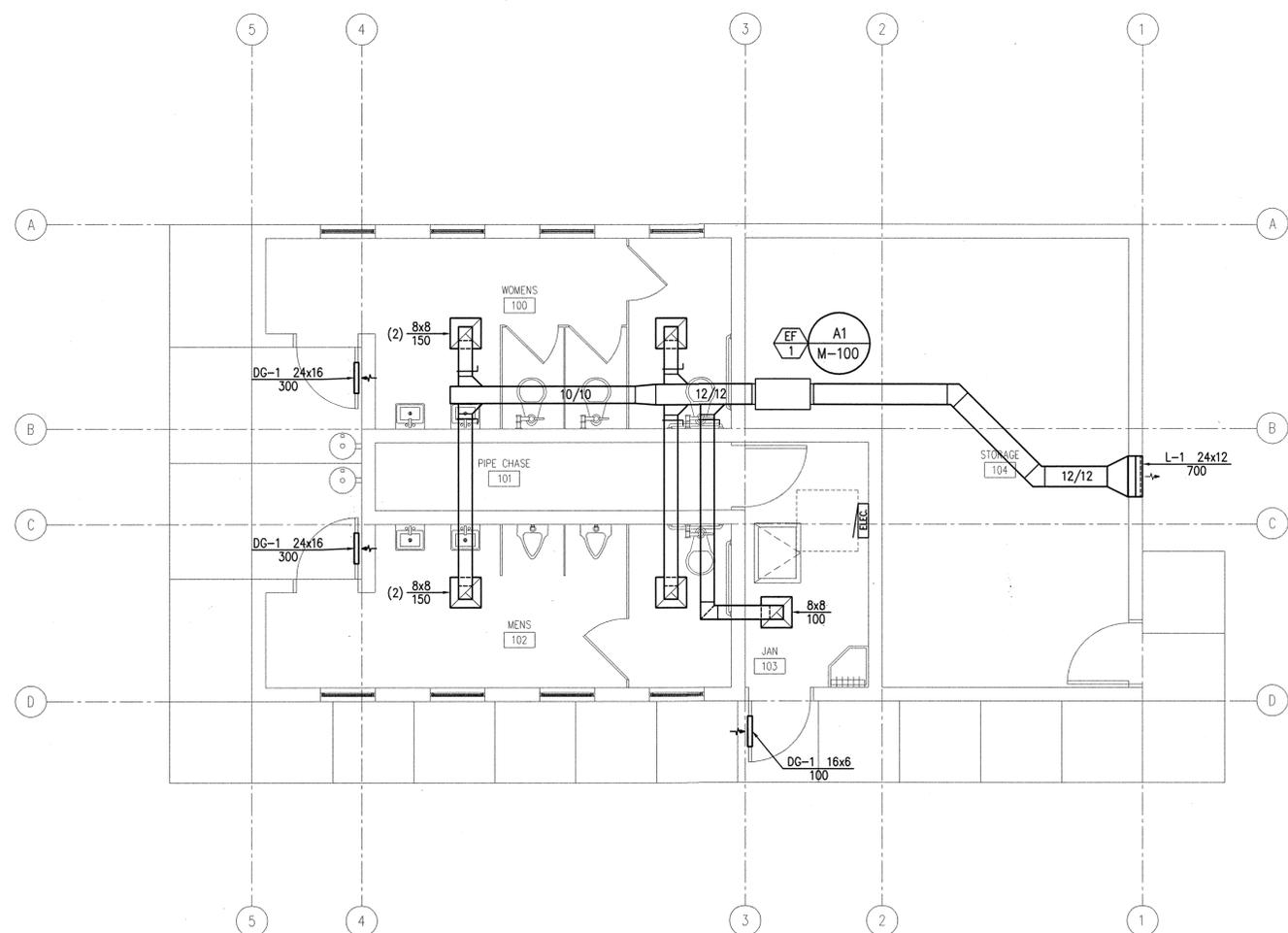
GRILLES, REGISTERS AND DIFFUSERS

ID	MANUFACTURER	MODEL	MAX NC	DESCRIPTION
EG-1	EH PRICE	PDDR	20	PERFORATED FACE EXHAUST AIR UNIT, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES HSLL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE.
DG-1	EH PRICE	STG1 BF B15	NA	DOOR GRILLE, HEAVY DUTY STEEL CONSTRUCTION 1-5/16 INCH FLAT BORDER, BOTH SIDES COUNTERSUNK SCREW/WHOLE FASTENING. ALUMINUM POWDER COAT FINISH. COORDINATE WITH ARCHITECT COLOR AND FINISH.
L-1	AIRLITE	K6776	SEE PLANS	WALL LOUVER, STATIONARY 6 INCH THICK 35 BLADE, 12 GA., EXT. ALUMINUM BLADES, 8 GA. EXT. ALUMINUM JAMBS. CHANNEL FRAME. BIRD SCREEN. COLOR AND FINISH TO BE ANODIZED ALUMINUM.

EXHAUST FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	AIR			FAN			ELECTRICAL			PHYSICAL		CONTROL	NOTES
					MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. WATER)	OUTLET VELOCITY (FPM)	FAN SPEED (RPM)	STATIC EFFICIENCY (%)	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/Hz	LENGTH/ WIDTH/ HEIGHT (IN)			
EF-1	COOK GN-720	STORAGE 104	NOTE 2	EXH	700	0.40	1627	1600	39%	284 W	284 W	1750	115/1/60	17 / 12 / 12	A	1,2,3	

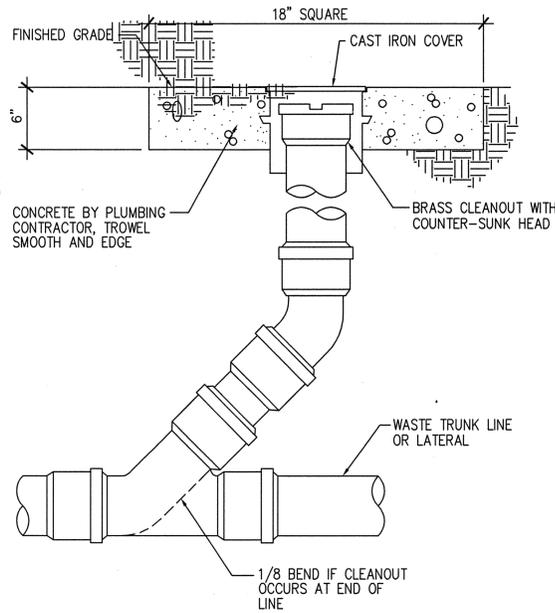
- CAPACITIES BASED ON 4500 FEET ELEVATION
 - INLINE EXHAUST FAN. PROVIDE GRAVITY BACKDRAFT DAMPER, INTEGRAL THERMAL OVERLOAD PROTECTION, STARTER AND DISCONNECT.
 - PROVIDE FAN SPEED CONTROLLER AND MOUNT ON SIDE OF FAN.
- A. CONTROL: RUN CONTINUOUSLY DURING OCCUPIED MODE. INTERLOCK WITH OCCUPANCY SENSOR BY DIV. 26.



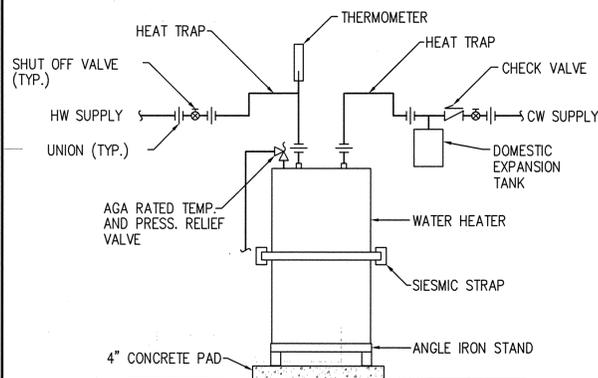
INLINE EXHAUST FAN DETAIL



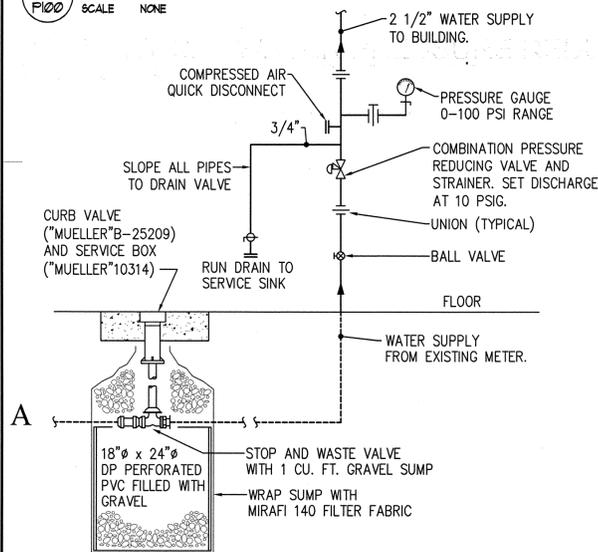
MECHANICAL FLOOR PLAN
SCALE 1/4" = 1'-0"



A CLEANOUT TO GRADE DETAIL
SCALE NONE



B WATER HEATER DETAIL
SCALE NONE



C VERTICAL WATER PRESSURE REDUCING STATION
SCALE NONE

PLUMBING FIXTURE SCHEDULE							
ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES	SPECIFICATION
DF-1	DRINKING FOUNTAIN	1/2	1/2	1 1/2	1 1/2	ADA, TWO-LEVEL FOUNTAIN	DRINKING FOUNTAIN: ELKAY EDPBM11TRAC, WALL MOUNTED, BARRIER-FREE, ADA DRINKING FOUNTAIN WITH FLEXIBLE BUBBLER GUARD, STAINLESS STEEL BOWLS AND WALL PANEL AND CONTROL BUTTON ON FRONT. 1-1/2" CAST BRASS CHROME-PLATED P-TRAPS. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.
FD-1	FLOOR DRAIN	--	--	2	2	RESTROOM	FLOOR DRAIN (RESTROOM): SMITH FIGURE 2005Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE AND TRAP PRIMER CONNECTION.
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG	LAVATORY (WALL HUNG): KOHLER K-2032 GREENWICH 20" X 18", "D" SHAPED BOWL, VITREOUS CHINA, WALL-MOUNT LAVATORY WITH DUAL FRONT OVERFLOW, 4" FAUCET CENTERS; K-7715 OPEN GRID STRAINER; MOEN 8417 FAUCET WITH 1.5 GPM AERATOR. WATTS MMV THERMOSTATIC MIXING VALVE. PROVIDE WATTS NO. 7 DUAL CHECKS IN HOT AND COLD SUPPLIES. PROVIDE VANDAL RESISTANT AERATOR. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED "P" TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HAND-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS.
NFH-1	NON FREEZE WALL HYDRANT	3/4	--	--	--	--	NON-FREEZE HYDRANT: SMITH 5608QT NON-FREEZE WALL HYDRANT FOR WALL THICKNESS SHOWN ON PLAN. BRONZE HYDRANT, 3/4-INCH CONNECTION WITH BRASS CASING, INTEGRAL SELF-DRAINING VACUUM BREAKER, AND LOOSE KEY.
SS-1	SERVICE SINK	3/4	3/4	3	2	--	JANITOR SINK (FLOOR MOUNTED, CORNER): KOHLER K6710, WHITBY, 28 X 28-INCH, ENAMELED CAST IRON FLOOR-MOUNTED CORNER MODEL, K9146-3" DRAIN WITH STRAINER, NO. K8940 REMOVABLE VINYL-COATED RIM GUARD; CHICAGO 897 FAUCET WITH VACUUM BREAKER, SCREWDRIVER STOPS IN SHANKS, 5 FOOT RUBBER HOSE AND WALL HOOK, 853.
TP-1	TRAP PRIMER	1/2	--	--	--	SOLINOID TYPE, 115V, UP TO 8 DRAINS	TRAP PRIMER: PRECISION PLUMBING PRODUCTS, INC. (PPP) PTS-8 PRIME-TIME ELECTRONIC TRAP PRIMING MANIFOLD; FOR UP TO 8 FLOOR DRAINS; 1/2" COPPER TUBE CONNECTION TO EACH FLOOR DRAIN P-TRAP, PRE-SET 24-HOUR CLOCK, MANUAL OVERRIDE SWITCH, SURFACE MOUNTED BOX, INSTALL PER MANUFACTURER'S INSTRUCTIONS.
U-1	URINAL	3/4	--	2	2	WALL HUNG, FLUSH VALVE, ADA	URINAL: KOHLER K-5016-ET VITREOUS CHINA ADA URINAL WITH 7" TOP SPUD; SLOAN REGAL MODEL 186-1.0 EXPOSED, 1.0 GPF FLUSH VALVE. SMITH 0637 URINAL SUPPORT. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. INSTALL ACUTATOR ON WIDE SIDE OF FIXTURE.
WC-1	WATER CLOSET	1	--	4	2	WALL HUNG, SENSOR FLUSH VALVE	WATER CLOSET: KOHLER K-4330 KINGSTON VITREOUS CHINA, WALL MOUNTED, ELONGATED BOWL TOILET WITH K-4670-C LUSTRA OPEN FRONT SEAT; SLOAN REGAL OPTIMA SMO MODEL 111-SMO LOW CONSUMPTION EXPOSED, BATTERY POWERED, SIDE MOUNT SENSOR OPERATED, 1.6 GPF FLUSH VALVE; SMITH 0210 HORIZONTAL (LEFT OR RIGHT HAND AS REQUIRED) OR SMITH 0230 VERTICAL ADJUSTABLE CARRIER WITH FOOT SUPPORT; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE; SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
WC-2	WATER CLOSET	1	--	4	2	WALL HUNG, SENSOR FLUSH VALVE, ADA	WATER CLOSET: KOHLER K-4330 KINGSTON VITREOUS CHINA, WALL MOUNTED, ELONGATED BOWL TOILET WITH K-4670-C LUSTRA OPEN FRONT SEAT; SLOAN REGAL OPTIMA SMO MODEL 111-SMO LOW CONSUMPTION EXPOSED, BATTERY POWERED, SIDE MOUNT SENSOR OPERATED, 1.6 GPF FLUSH VALVE; SMITH 0210 HORIZONTAL (LEFT OR RIGHT HAND AS REQUIRED) OR SMITH 0230 VERTICAL ADJUSTABLE CARRIER WITH FOOT SUPPORT; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE; SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.

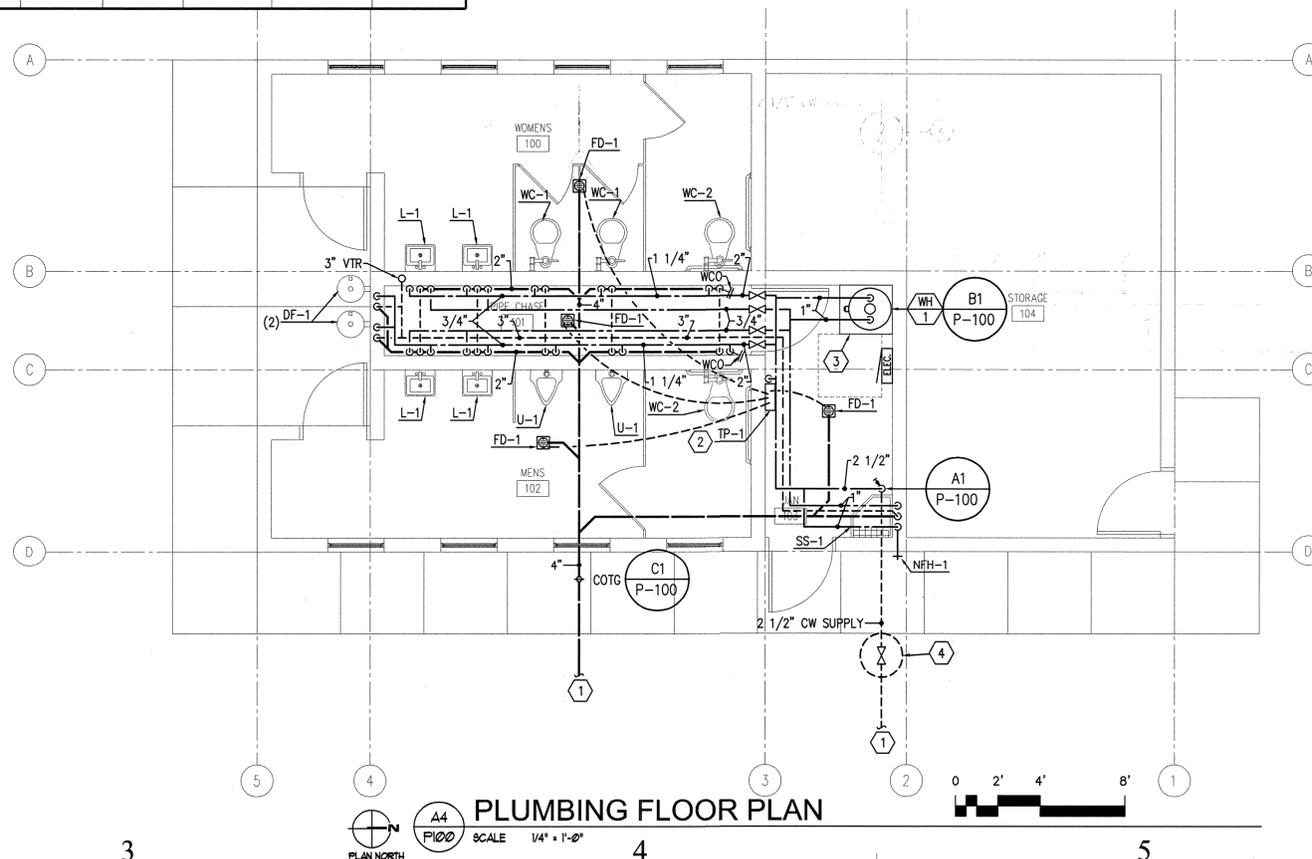
NOTE: ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

ELECTRIC WATER HEATER SCHEDULE									
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	RECOVERY RATE @ 80 F DELTA T	ELECTRICAL (KW)	PHYSICAL V/PH	TANK SIZE (GAL)	HEIGHT/DIA (IN)	NOTES
WH-1	A.O.SMITH DEL-10	JAN 103	ELECTRIC	13	2.5	208/1/60	10	19 / 18	1

1. PROVIDE 10 GAL DOMESTIC WATER EXPANSION TANK

KEYED NOTES

- SEE SITE PLAN FOR CONTINUATION.
- EXTEND 1/2" TRAP PRIMER SUPPLY LINES TO EACH FLOOR DRAIN.
- PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
- STOP AND WASTE VALVE WITH 1 CU. FT. GRAVEL SUMP.



D PLUMBING FLOOR PLAN
SCALE 1/4" = 1'-0"

State of Utah

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PROJECT TITLE:

UTAH VALLEY UNIVERSITY
OREM, UTAH

NEW INTRAMURAL FIELD
RESTROOM BUILDING

MARK DATE DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790

CAD PROJECT NO:

CAD DWG FILE:

DRAWN BY: Ejuarez

CHK'D BY: Jbeck / Sshepherd

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SHEET TITLE

PLUMBING
FLOOR PLAN
DETAILS & SCHEDULES

SHEET NUMBER

P-100



2004 IECC

Section 1: Project Information

Project Type: New Construction
Project Title: UVU Restroom
Construction Site:
Owner/Agent:
Designer/Contractor: Ryan Voast, Van Boerum and Frank Associates

Section 2: General Information

Building Use Description by Activity Type:
Activity Type(s):
Elect Area: 650

Section 3: Requirements Checklist

Interior Lighting:

- 1. Total proposed watts must be less than or equal to total allowed watts. Allowed Watts: 650, Proposed Watts: 650, Complies: YES

Exterior Lighting:

- 2. Efficacy greater than 40 lumens/W. Exception: Specialized lighting highlighting features of historic buildings; signage; safety or security lighting; low-voltage landscape lighting.

Controls, Switching, and Wiring:

- 3. Independent controls for each space (switch/occupancy sensor). Exception: Areas designated as security or emergency areas that must be continuously illuminated. Lighting in stairways or corridors that are elements of the means of egress. 4. Master switch at entry to hotel/motel guest room. 5. Individual dwelling units separately metered. 6. Each space provided with a manual control to provide uniform light reduction by at least 50%. Exception: Only one luminaire in space. An occupant-sensing device controls the area. The area is a corridor, stairroom, restroom, public lobby or guest room. Areas that use less than 0.6 Watts/sq ft. 7. Automatic lighting shutoff control in buildings larger than 6,000 sq ft. Exception: Areas with only one luminaire, corridors, stairrooms, restrooms, or public lobbies. 8. Photoautocorrectional time switch on exterior lights. Exception: Lighting intended for 24 hour use.

Project Title: UVU Restroom
Date Revise: N:\09\04\00\0432 UVU Restroom Building\02 Electrical\3-15-10 electrical.doc
Report date: 03/15/10
Page 1 of 3

- 9. Tandem wired one-lamp and three-lamp ballasted luminaires (no single-lamp ballasts). Exception: Electronic high-frequency ballasts. Luminaires on emergency circuits or with no available ballast.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2004 IECC, Chapter 8, requirements in COMcheck Version 3.6.0 and to comply with the mandatory requirements in the Requirements Checklist.

Stan Johns, Signature, Date: 3-15-10



2004 IECC

Section 1: Allowed Lighting Power Calculation

Table with 4 columns: Area Category, Floor Area (sq ft), Allowed Watts (F x C), Allowed Watts (B x D). Row 1: Corridor, Restroom, Support Area, 650, 65, 650. Total Allowed Watts = 650.

Section 2: Proposed Lighting Power Calculation

Table with 5 columns: Fixture ID, Description / Lamp / Wattage Per Lamp / Ballast, A, B, C, D, E, (C x D). Row 1: Linear Fluorescent 1.48' T5 32W / Electronic, 2, 10, 65, 650. Total Proposed Watts = 650.

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Summary table: Total Allowed Watts = 650, Total Proposed Watts = 650, Project Compliance = 205.

Interior Lighting PASSER: Design 24% below than code.

Project Title: UVU Restroom
Date Revise: N:\09\04\00\0432 UVU Restroom Building\02 Electrical\3-15-10 electrical.doc
Report date: 03/15/10
Page 3 of 3

ELECTRICAL SYMBOL SCHEDULE

Table with 5 columns: SYMBOL, DEVICE/FIXTURE DESCRIPTION, CATALOG NUMBER, MOUNTING, COMMENTS. Includes items like FLUORESCENT LIGHT FIXTURE, WALL LIGHT FIXTURE, SINGLE POLE SWITCH, etc.

WIRING IN CND IN CEILING OR WALL, WIRING IN CND IN GROUND OR FLOOR, CONDUIT TURNED UP, CONDUIT TURNED DOWN

CIRCUIT HOME RUN TO PANEL. 3 CONDUCTORS INCLUDING THE EQUIPMENT GROUND CONDUCTOR. CIRCUIT HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATE NUMBER OF CIRCUITS. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. EX. TWO CIRCUITS, FOUR CONDUCTORS, COMMON NEUTRAL AND THREE CIRCUITS WITH 7 CONDUCTORS (SEPERATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.

INSTALL CONDUITS AS DRAWN ON THE PLANS. THE ONLY EXCEPTIONS ARE THOSE AUTHORIZED IN WRITING BY THE ENGINEER. ALL CONDUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR SIZED PER NEC.

ABBREVIATIONS/NOTES

AFF - ABOVE FINISHED FLOOR, AFG - ABOVE FINISHED GRADE, AIC - AMPS INTERRUPTING CAPACITY, BC - BARE COPPER, BFC - BELOW FINISHED CEILING, BFG - BELOW FINISHED GRADE, CND, OR C - CONDUIT, CLG - INSTALLED IN CEILING, CT - CURRENT TRANSUCER, DFA - DROP FROM ABOVE, EC - ELECTRICAL CONTRACTOR, EV - ELECTRO VOICE, GC - GENERAL CONTRACTOR, GND - GROUND, MC - MECHANICAL CONTRACTOR, MCA - MINIMUM CIRCUIT AMPS, P.C. - PLUMBING CONTRACTOR, POC - POINT OF CONNECTION, POS - POINT OF SALES, RMC - RIGID METAL CONDUIT, SCA - SHORT CIRCUIT AMPERES, TC - TEMP. CONTROL CONTRACTOR, UNO - UNLESS NOTED OTHERWISE, VA - VOLT/AMPS, VF - VERIFY IN FIELD, WP - WEATHER PROOF/NEMA 3R

- 1. SEE LIGHTING FIXTURE SCHEDULE FOR TYPE AND SPECIFICS. 2. SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING OF FIXTURE. 3. PROVIDE AND WIRE FROM ADJACENT J-BOX AS REQUIRED BY THE FIXTURE AND NUMBER OF CONDUITS. 4. PROVIDE UN-SWITCHED CONDUCTOR TO EMERGENCY BALLAST. 5. PROVIDE DIRECTIONAL ARROWS AS SHOWN. 6. ACCEPTABLE EQUALS ARE P&S, LEVITON, COOPER, HUBBELL. 7. ACCEPTABLE EQUALS ARE HUBBELL, WATT STOPPER, SENSOR SWITCH. 8. ACCEPTABLE EQUALS ARE GENERAL ELECTRIC, ALLEN-BRADLEY, SQUARE D. 9. PROVIDE ONE B2432, ONE S3825, ONE S3826, ONE SB3084, AND ONE FCX244W. 10. ACCEPTABLE EQUALS ARE INTERMATIC, PARAGON, EZ-CONTROL. 11. USE A 4" X 4" BOX WITH A MUD RING BOX COVER TO MATCH THE DEVICE AND INSTALLATION. 12. PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED. 13. USE HEAVY DUTY FOR 480 VOLT. 14. SIZE TO THE EQUIPMENT BEING CONTROLLED. 15. PROVIDE A FLOOR BOX HUBBELL SIPFB/SISP, TWO HBL5BK, ONE IM2K1BK, AND FIVE IMB1BK W/FLANGE TO MATCH FLOOR TYPE. 16. PROVIDE A FLOOR BOX HUBBELL SIPFB/SISP WITH ONE IM2K1BK, TWO IMB1BK AND ONE HBL2162BK. 17. ACCEPTABLE EQUALS ARE HUBBELL, ORTRONICS, SIEMON. 18. MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT. 19. MOUNT SWITCH AT DOOR JAM PER MANUFACTURERS INSTRUCTIONS. 20. FEED THE STYLE LINE RECP. FROM THE GFCI OUTLET SO BOTH ARE GFCI PROTECTED. 21. PROVIDE HANDY BOX (RACO 663 OR EQUAL) MOUNT DIRECTLY TO FURNACE FUSE 15 AMP OR AS INDICATED ON PLANS. 22. IF EXHAUST FAN, SWITCH WITH LIGHTS UNLESS INDICATED OTHERWISE. 23. PROVIDE DEVICE UL LISTED TO BE USED WITH THE FIRE ALARM PANEL/SYSTEM. 24. PROVIDE ONE DFOW, TWO DFBM10W. 25. PROVIDE ONE BR20W. 26. FOR TELEPHONE PROVIDE HUBBELL HBLSEW. FOR DATA PROVIDE HUBBELL HBLSEB. FOR BLANKS PROVIDE S1BOWPK10. 27. PROVIDE A FLOOR BOX HUBBELL S2431 WITH (1) SB3083. 28. PROVIDE TIMER INTERVAL AS SHOWN ON DRAWINGS OR LISTED IN SPECIFICATIONS. 29. PROVIDE RACEWAY WITH OUTLETS 12" ON CENTER. UNO.

GENERAL NOTES CON'T

- 12. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR. 13. DO NOT INSTALL CONDUIT IN BOND BEAMS. 14. LENGTHS OF FLEXIBLE CONDUIT GREATER THAN 48 INCHES SHALL NOT BE INSTALLED ON THIS PROJECT, EXCEPT WHIPS ON LIGHT FIXTURES, WHICH MAY BE UP TO ELEVEN (11) FEET IN LENGTH. FLEXIBLE CONDUIT SHALL NOT BE CONCEALED. 15. ALL BATTERY POWERED OR CONTINUOUS BURN LIGHT FIXTURES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA. 16. LIGHT FIXTURES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE. 17. ALL SURFACE MOUNTED FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. 18. UNDERGROUND CONDUIT FOR SITE LIGHTING SHALL BE BURIED 24" B.F.G. AND SHALL HAVE ONE (1) #10 THIN GREEN GROUND CONDUCTOR TO GROUND ALL FIXTURES. 19. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ELECTRICAL CONTINUITY TO REMAINING EQUIPMENT WHEN ANY EXISTING ELECTRICAL EQUIPMENT IS REMOVED. 20. AFTER THE FACILITY IS COMPLETE AND BEEN IN FULL OPERATION FOR TWO WEEKS THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE UTILITY DEMAND, THE SYSTEM VOLTAGE (PHASE TO PHASE AND PHASE TO GROUND) AND AN AMMETER READING (EACH PHASE) ON THE MAIN FEEDERS. THESE READINGS SHALL BE OBTAINED DURING NORMAL OPERATING HOURS FOR THE FACILITY AND SHALL BE RECORDED AND A COPY SENT TO THE ENGINEER.

GENERAL NOTES

- 1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE. 2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS THEY APPLY. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS. 3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK. 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC. 5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE. 6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SERVICE FEEDER TO THE BUILDING WITH THE LOCAL UTILITY. PROVIDE LABOR AND CONDUIT, CONDUCTORS, WIRE WAYS AS NEEDED FOR A COMPLETE ELECTRIC SERVICE TO THIS FACILITY. 7. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. 8. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING. 9. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LIGHT FIXTURE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT. 10. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. 11. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.

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PROJECT TITLE:

UTAH VALLEY UNIVERSITY OREM, UTAH

NEW INTRAMURAL FIELD RESTROOM BUILDING

MARK DATE DESCRIPTION

ISSUE TYPE CONSTRUCTION DOCUMENTS

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790

CAD PROJECT NO:

CAD DWG FILE:

DRAWN BY: Tjohns

CHK'D BY: Ryan voast / Sjohns

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SHEET TITLE

ELECTRICAL SCHEDULES AND GENERAL NOTES

SHEET NUMBER

E-001

1

2

3

4

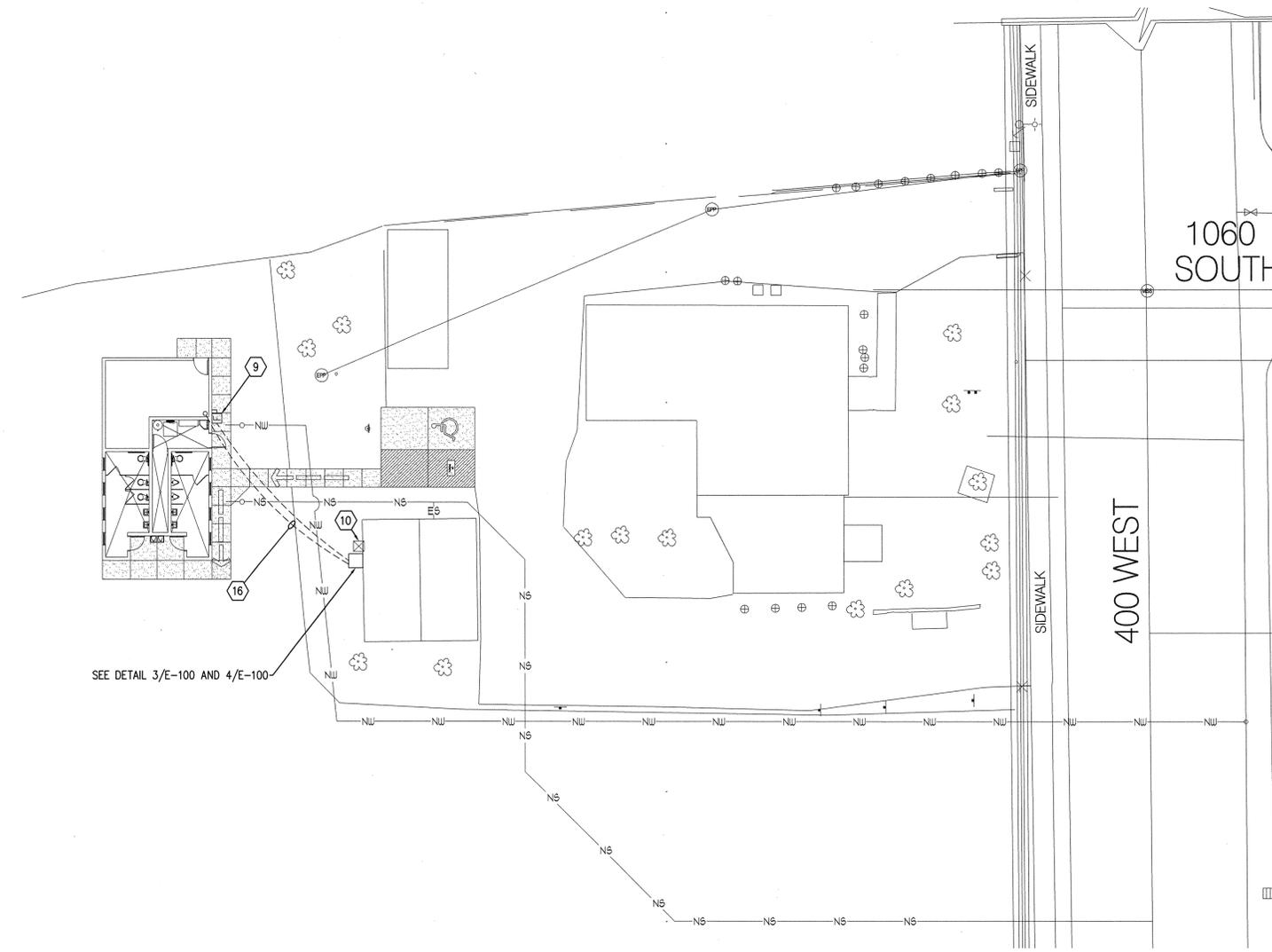
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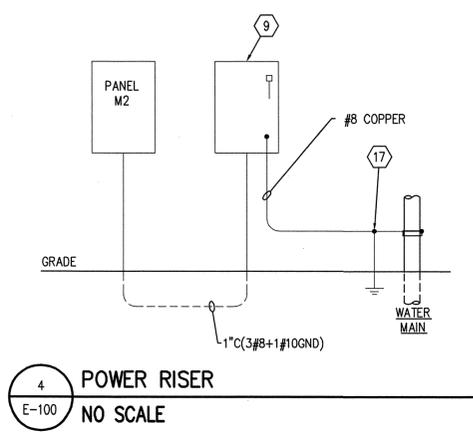
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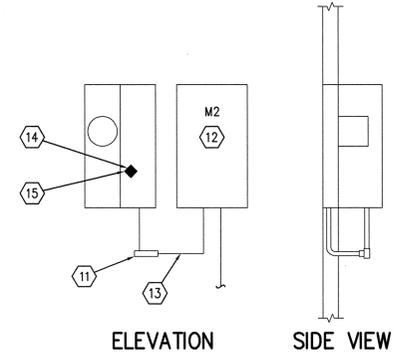


SEE DETAIL 3/E-100 AND 4/E-100

1 ELECTRICAL SITE PLAN
 E-100 SCALE: 1/16" = 1'-0"
 0' 16' 32'



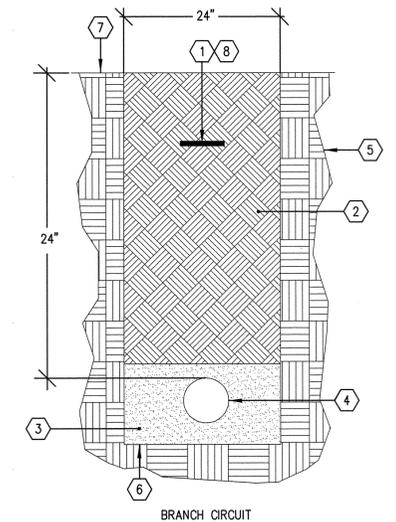
4 POWER RISER
 E-100 NO SCALE



3 PANEL M2 INSTALLATION
 E-100 NO SCALE

KEYED NOTES

1. MARKER TAPE WITH THE WORDS, "CAUTION BURIED ELECTRIC CONDUITS BELOW" DIRECTLY OVER POWER CONDUITS 6" MINIMUM BELOW GRADE.
2. CLEAN BACKFILL CONTAINING NO ROCKS LARGER THAN 4" DIAMETER.
3. BACKFILL MATERIAL WITHIN 4" OF THE CONDUIT SHALL PASS THROUGH A 3/4" SIEVE FRAME AND CONTAIN LESS THAN 30 PERCENT ROCK SOLIDS BY VOLUME.
4. PROVIDE SPECIFIED CONDUIT.
5. UNDISTURBED EARTH.
6. TRENCHES SHALL BE A UNIFORM DEPTH FOR ENTIRE LENGTH OF TRENCH SO CONDUITS CAN SIT FLAT (HORIZONTAL) WITH THE GROUND.
7. FINISHED GRADE.
8. ALL MARKER TAPE SHALL CONTAIN #10 TRACER WIRE.
9. 60 AMP, 2-POLE, FUSED SERVICE RATED MAIN DISCONNECT, FUSED WITH RKS FUSES.
10. EXISTING METER BASE TO REMAIN.
11. PROVIDE A LB CONNECTOR TO GO INTO THE WALL AND THEN CONDUIT FROM THE LB TO THE EXISTING PANEL INSIDE THE WALL. INSTALL THE CONDUIT AND LB ON UNISTRUT TO HOLD IT OUT FROM THE WALL AND TO SECURE IT. KEEP THE PENETRATION THROUGH THE WALL NO LARGER THEN NEEDED TO GET THE CONDUIT FROM THE LB THROUGH THE WALL. SEAL THE PENETRATION WITH SILICONE CAULK TO PREVENT ANY WATER ENTERING THE WALL.
12. PROVIDE PANEL M2 SURFACE MOUNT NEXT TO THE EXISTING SERVICE PANEL. SEE PANEL SCHEDULE FOR DETAILS.
13. PROVIDE A 1" C(3#4+3#12+1#8GND) FROM PANEL M2 TO THE EXISTING MAIN PANEL.
14. REMOVE THE EXISTING TWO POLE 20A BREAKER FROM THE MAIN PANEL AND EXTEND THE CIRCUIT IT WAS FEEDING TO A TWO POLE BREAKER IN PANEL M2.
15. PROVIDE AN 85 AMP, 2 POLE BREAKER IN THE EXISTING PANEL WHERE THE 2 POLE 20 AMP BREAKER WAS REMOVED. FEED PANEL M2 WITH THIS BREAKER USING THE #4 CONDUCTORS.
16. PROVIDE A 1" CONDUIT WITH PULL CORD CAPPED UNDERGROUND AT THE EXISTING BUILDING AND STUBBED UP IN THE NEW BUILDING FOR FUTURE USE.
17. EC SHALL PROVIDE 20' OF #4 BARE COPPER ENCASED BY AT LEAST 2 INCHES OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH PER NEC 250.52(A)(3).



2 TRENCH DETAIL
 E-100 NO SCALE

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 VBFA Project Number: 09432



PROJECT TITLE:

UTAH VALLEY UNIVERSITY OREM, UTAH

NEW INTRAMURAL FIELD RESTROOM BUILDING

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: 15 March, 2010

DFCM PROJECT NO: 10004790
 CAD PROJECT NO:
 CAD DWG FILE:
 DRAWN BY: Tjohns
 CHK'D BY: Ryan voast / Sjohns
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SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

E-100

1										2											
PANEL M2		VOLTAGE 240Y/120		MOUNTING		FEED		MAINS 100 AMP		DIMS. 9" W		SPECIAL EQUIPMENT		CIRCUIT DESCRIPTION		CIRCUIT NO.					
TYPE QO		PHASE 1 WIRES 3		FLUSH		TOP		X LUGS		4.5" D		X GROUND BUS		SUB-FEED BRKR		NEMA 3R					
LOCATION MAINT BLDG		AIC 10,000 AMPS		X SURFACE		X BOTTOM		BREAKER 13" H				SURGE PROTECTOR									
CIR. NO.	CIRCUIT DESCRIPTION	CODELTS	CO	MIS	P	BRKR	WIRE SIZE	CIRCUIT LOAD	COMBINED PHASES	A	C	CIRCUIT LOAD	WIRE BRKR	OUTLETS	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR. NO.	
1	HEATER	2	20				1500	1500				1500							SPACE	2	
3																			SPACE	4	
5	PANEL M	2	40				2400	2400											SPACE	6	
7												3123							SPACE	8	
9	SPACE																		SPACE	10	
11	SPACE																		SPACE	12	
		VA 3900				4623						9 KVA		1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE							
		DIV 3900				4623						AV. AMPS		2 = SHUNT-TRIP BREAKER		5 = GFCl BREAKER					
		AMPS 33				39						36 A		3 = SUBFEED BREAKER		6 = GFEP BREAKER					
														4 = PROVIDE LOCK OFF DEVICE							
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C																					

MECHANICAL EQUIPMENT SCHEDULE									
ELECTRICAL									
MARK	DESCRIPTION	V/PH	LOAD (KW)	FLA	MCA	MCCP	DISCONNECT SIZE/POLE	FUSE SIZE	NOTES
EF-1	EXHAUST FAN	120/1	0.3						3.4
TP-1	TRAP PRIMER	120/1		1					6
WH-1	WATER HEATER	208/1	2.5						5

V/PH/Hz = VOLTAGE / PHASE / HERTZ
MCA = MINIMUM CIRCUIT AMPACITY
MCCP = MAXIMUM OVER CURRENT PROTECTION LISTED BY THE MANUFACTURER

NOTES:
(1) UNIT PROVIDED WITH DISCONNECT.
(2) PROVIDE FUSED DISCONNECT WITH FUSE SIZED TO THE MAX. LISTED BY THE MANUFACTURER.
(3) SEE DRAWINGS FOR SWITCHING.
(4) PROVIDE A ONE HORSE POWER RATED TOGGLE SWITCH AT UNIT FOR DISCONNECT.
(5) PROVIDE SQUARE D NON-FUSED DISCONNECT PART NUMBER DU321N OR APPROVED EQUIVALENT
(6) DIRECT CONNECT.

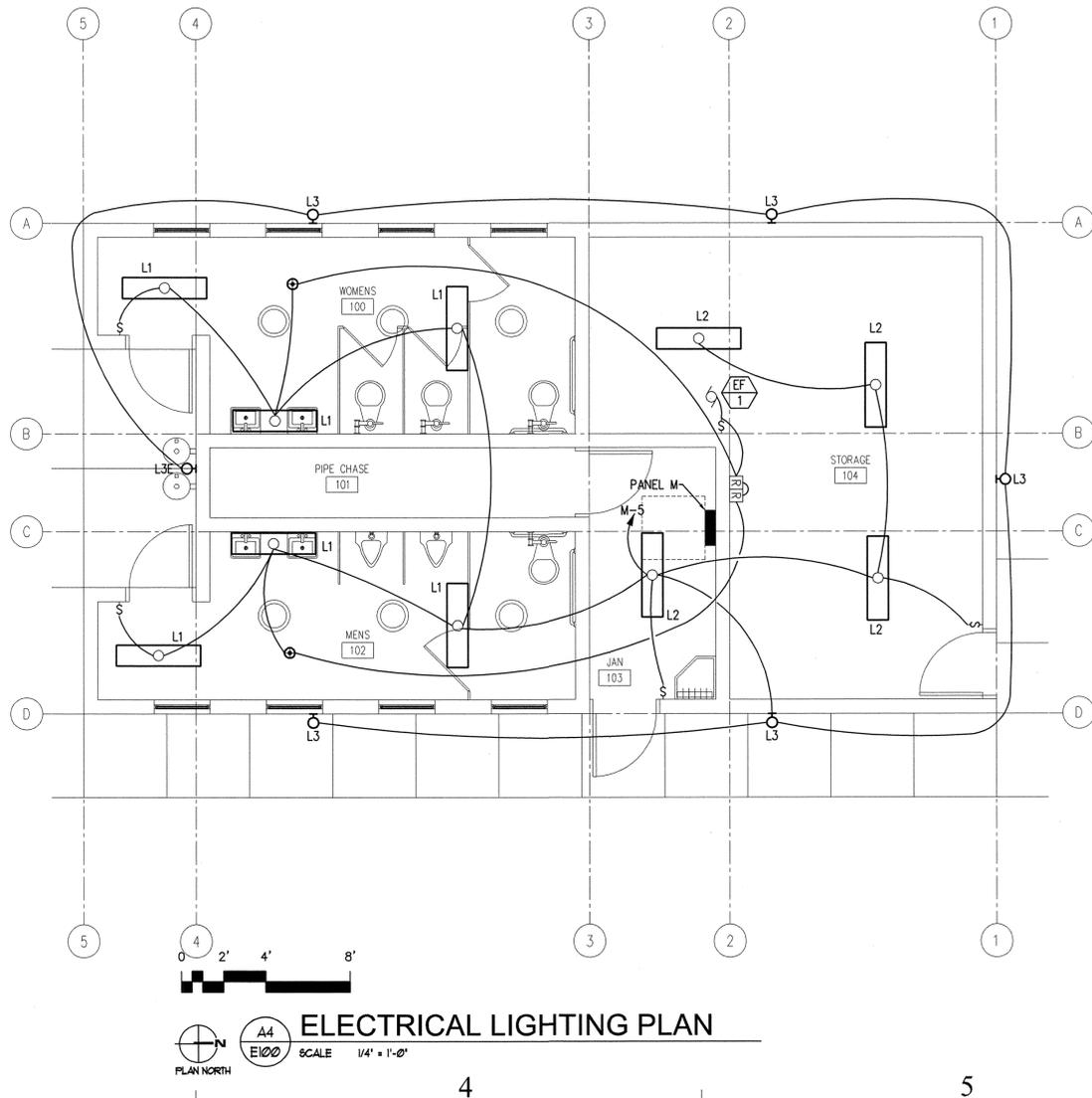
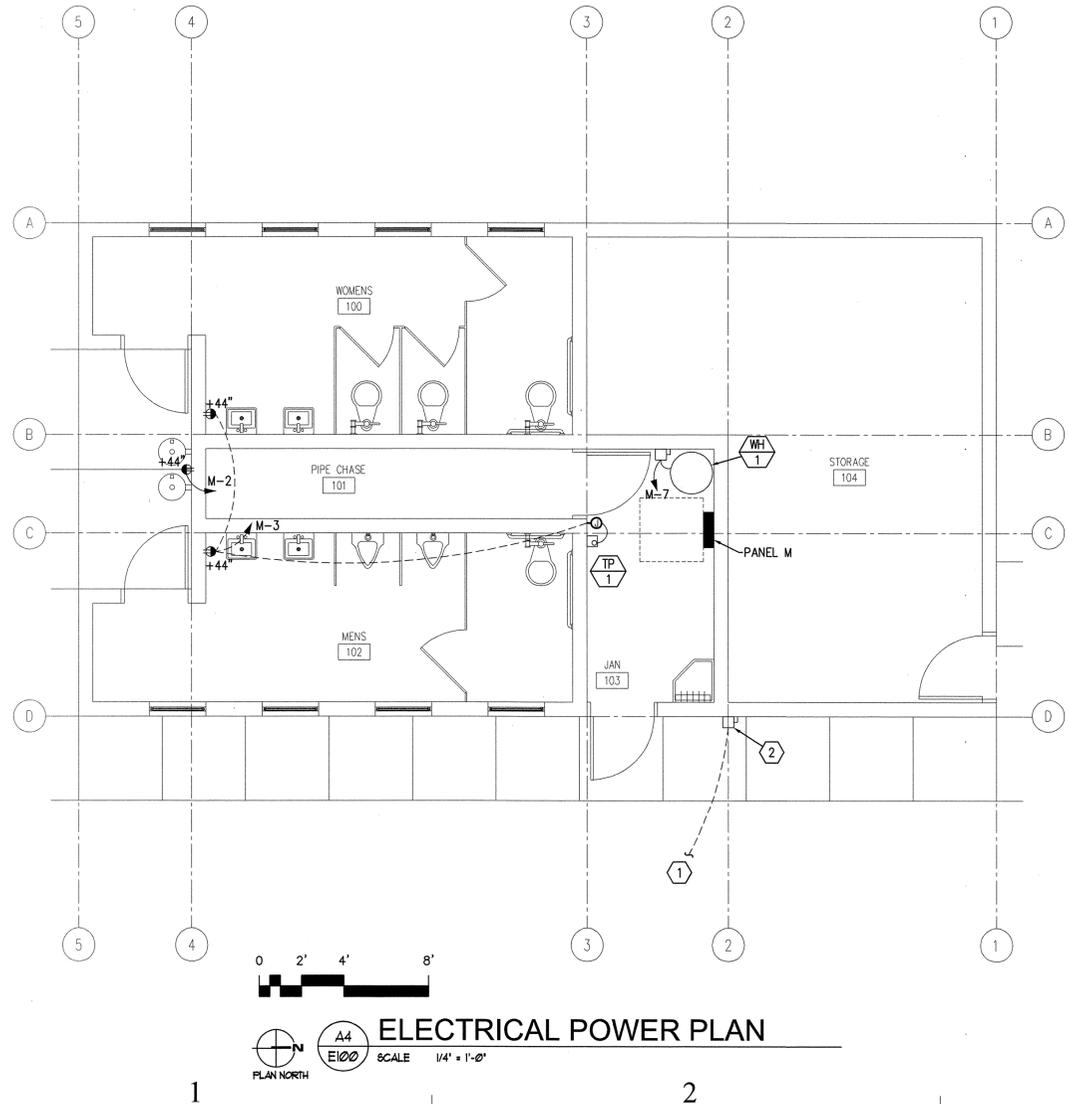
3										4									
LUMINAIRE SCHEDULE																			
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTS	QTY	MODEL	MOUNTING	VA	NOTES										
L1	VANDAL RESISTANT WRAP 11" X 48" 2-LAMP WITH PRISMATIC LENS	COLUMBIA	VRM4-232-E	120	2	F32T8/XL/SPX35/HU/ECO	SURFACE	64VA											
L2	48" - INDUSTRIAL FLOURESCENT - 2 LAMP SURFACE/CHAIN MOUNTED FIXTURE WITH REFLECTOR AND WIRE GUARD	METALUX	SNF-232-UNV-WVG	120	2	F32T8/XL/SPX35/HU/ECO	SURFACE/CHAIN	64 VA											
L3	WALL MOUNTED DARK SKY COMPLIANT FULL CUT, WEDGE SHAPE, WET LOCATION LISTED AREA LIGHT, WITH INTEGRAL PHOTO CELL AND EMERGENCY BATTERY PACK	LITHONIA	WST 32TRT-MD-MVOLT-ELDWC	120	1	32 W CFL	WALL + 8' AFF	32 VA											
L3E	WALL MOUNTED DARK SKY COMPLIANT FULL CUT, WEDGE SHAPE, WET LOCATION LISTED AREA LIGHT, WITH INTEGRAL PHOTO CELL AND EMERGENCY BATTERY PACK	LITHONIA	WST 32TRT-MD-MVOLT-ELDWC-EM	120	1	32 W CFL	WALL	32 VA											

NOTES: THE FIXTURES LISTED IN THIS SCHEDULE REPRESENT THE QUALITY AND TYPE OF FIXTURES DESIRED. EQUALS OF THOSE MANUFACTURERS NOTED IN THE REMARKS ARE ACCEPTED. FOR THOSE FIXTURES WITHOUT A MANUFACTURE DESIGNATION IN THE REMARK COLUMN THE SUPPLIER MAY SUBMIT A FIXTURE THEY BELIEVE TO BE EQUAL TO THE ONE SPECIFIED. TO BE ACCEPTABLE THE FIXTURES SUBMITTED MUST BE OF THE SAME TYPE AND MATERIAL AS THAT SPECIFIED AND MUST RECEIVE APPROVAL FROM THE ENGINEER BY ADDENDUM PRIOR TO BID.

5																					
PANEL M		VOLTAGE 240Y/120		MOUNTING		FEED		MAINS 100 AMP		DIMS. 9" W		SPECIAL EQUIPMENT									
TYPE QO		PHASE 1 WIRES 3		FLUSH		TOP		X LUGS		4.5" D		X GROUND BUS									
LOCATION JAN. 103		AIC 10,000 AMPS		X SURFACE		X BOTTOM		BREAKER 13" H				SURGE PROTECTOR									
CIR. NO.	CIRCUIT DESCRIPTION	CODELTS	CO	MIS	P	BRKR	WIRE SIZE	CIRCUIT LOAD	COMBINED PHASES	A	C	CIRCUIT LOAD	WIRE BRKR	OUTLETS	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR. NO.	
1	SPARE	2	1	20			0					20	11						SPARE	2	
3	RR CO'S	2	1	20			360				1560	1200	12	20	1				DRINKING FTN	4	
5	LIGHTS AND FAN	15	1	1	20		1150					20	1						SPARE	6	
7	WH-1	1	2	20			1250				1250		20	1					SPARE	8	
9												20	1						SPARE	10	
11	SPARE	1	1	20			0					20	1						SPARE	12	
		VA 2400				2810						6 KVA		1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE							
		DIV 2400				3123						AV. AMPS		2 = SHUNT-TRIP BREAKER		5 = GFCl BREAKER					
		AMPS 20				26						23 A		3 = SUBFEED BREAKER		6 = GFEP BREAKER					
														4 = PROVIDE LOCK OFF DEVICE							
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C																					

KEYED NOTES

1. REFER TO SITE PLAN FOR MORE INFORMATION.



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NEW INTRAMURAL FIELD RESTROOM BUILDING

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ISSUE DATE: 15 March, 2010

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CAD PROJECT NO:
CAD DWG FILE:
DRAWN BY: Tjohns
CHK'D BY: Rvan voast / Sjohns
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SHEET TITLE
ELECTRICAL FLOOR PLANS

SHEET NUMBER

E-200