State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

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

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
NEW SPRINGVILLE, UTAH LIQUOR STORE

1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

DFCM PROJECT NO. 08226030

MARCH 2010

CONSTRUCTION DRAWINGS

SYMBOLS AND MATERIAL LEGEND

PLAN AND SECTION INDICATIONS

EARTH
ASPHALT
BATT INSULATION
GRAVEL FILL
METAL STUD
RIGID INSULATION
CONCRETE SECTION
ALUMINUM
PLASTIC LAMINATE
C.M.U.
GYPSUM BOARD
CERAMIC TILE
BRICK
FINISH LUMBER
ACOUSTIC TILE
CONCRETE PLAN
WOOD FRAMING
CARPET & PAD
MARBLE
PLYWOOD
GLASS
PARTICLE BOARD
PLYWOOD LARGE SCALE
GLASS SMALL SCALE
FENCE
4812.0' EXISTING CONTOUR
4812.0' FINISH CONTOUR

SHEET TAGS

ROOM NAME 000
WINDOW NUMBER
DOOR NUMBER
ELEVATION MARKER
FINISH SPOT ELEV.
WALL TYPE
KEYED NOTE
GLASS TYPE

DETAIL NUMBER / SHEET ON WHICH DETAIL APPEARS — DETAIL
INTERIOR DIRECTION; ELEVATION NUMBER / SHEET ON WHICH ELEVATION APPEARS — INTERIOR ELEVATION
SECTION NUMBER / SHEET ON WHICH SECTION APPEARS — SECTION
ELEVATION NUMBER / SHEET ON WHICH ELEVATION APPEARS — EXTERIOR ELEVATION

DFCM STANDARDS

DFCM STANDARDS: TO THE BEST OF OUR KNOWLEDGE, THE ARCHITECTURAL DOCUMENTS COMPLY WITH DFCM STANDARDS EXCEPT AS LISTED BELOW WHICH HAVE BEEN WAIVED:
1. AUTOMATIC DOOR OPENERS HAVE NOT BEEN PROVIDED AT THE REST ROOM DOORS.
2. A BUILDING PLAQUE HAS NOT BEEN PROVIDED.

ABBREVIATIONS

@	AT	JAN	JANITOR
ADJ.	ADJUSTABLE	JT.	JOINT
ADJ.	ADJACENT	LAM	LAMINATE
A.B.	ANCHOR BOLT	MAS.	MASONRY
A.F.F.	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
ALT.	ALTERNATE	MECH.	MECHANICAL
ALUM./AL.	ALUMINUM	MFR.	MANUFACTURER
BRD./BD.	BOARD	MANUF.	MANUFACTURER
BLDG.	BUILDING	MIN.	MINIMUM
BLK.	BLOCK (BLOCKING)	M.O.	MASONRY OPENING
B.M.	BENCH MARK	MTL.	METAL
BOT./BTTM.	BOTTOM	N.I.C.	NOT IN CONTRACT
CAB.	CABINET	NO.	NUMBER
C.O.	CLEAN OUT	O.C.	ON CENTER
C.J.	CONTROL JOINT	O.D.	OUTSIDE DIAMETER
CL	CENTER LINE	O.H.	OVER HEAD
CLG.	CEILING	OPNG.	OPENING
C.M.U.	CONCRETE MASONRY UNIT	OPP.	OPPOSITE
COL.	COLUMN	OV.	OVER
CONC.	CONCRETE	P.LAM	PLASTIC LAMINATE
CONTD.	CONTINUED	P.L.	PROPERTY LINE
CONST.	CONSTRUCTION	PL.	PLATE
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
CONTR.	CONTRACTOR	PLY.	PLYWOOD
COTG	CLEAN OUT TO GRADE	PNTD.	PAINTED
Ø/DIA.	DIAMETER	PTD.	PAINTED
DET.	DETAIL	PVMT.	PAVEMENT
D.F.	DRINKING FOUNTAIN	Q.T.	QUARRY TILE
DN.	DOWN	R./R	RADIUS
DWGS.	DRAWINGS	REINFORCED	
DRAWGS	DRAWINGS	CONCRETE PIPE	
EA.	EACH	R.D.	ROOF DRAIN
E.J.	EXPANSION JOINT	REINF.	REINFORCEMENT
ELEV./EL.	ELEVATION	REQ.	REQUIRED
ELEV.	ELEVATOR	RM.	ROOM
E.J.	EXPANSION JOINT	R.O.	ROUGH OPENING
ENL.	ENLARGED	SECT.	SECTION
EQ.	EQUAL	SEC.	SECTION
EQUIP.	EQUIPMENT	SHT.	SHEET
EWC.	ELECTRIC WATER COOLER	SIM.	SIMILAR
EXIST.	EXISTING	SQ./SQ	SQUARE
EXTG.	EXISTING	SPEC.	SPECIFICATION
EXP.	EXPANSION	S.S.	STAINLESS STEEL
EXT.	EXTERIOR	S.T.D.	STANDARD
F.D.	FLOOR DRAIN	STL.	STEEL
F.E.C.	FIRE EXTINGUISHER CABINET	STOR.	STORAGE
		STRUCT.	STRUCTURAL
F.E.	FIRE EXTINGUISHER	STRUC.	STRUCTURAL
FIN.	FINISH	SUSP.	SUSPENDED
F.F.	FINISH FLOOR	T.B.	TACK BOARD
F.H.	FIRE HYDRANT	T.O.	TOP OF
FL.	FLOOR	T.O.A.	TOP OF ASPHALT
FT.	FOOT	T.O.B.	TOP OF BEAM
F.V.	FIELD VERIFY	T.O.C.	TOP OF CONCRETE
GA.	GAUGE	T.O.C.	TOP OF CURB
GALV.	GALVANIZED	T.O.M.	TOP OF MASONRY
G.I./GALV.	GALVANIZED IRON	T.O.S.	TOP OF SLAB
G.B.	GYPSUM BOARD	T.O.W.	TOP OF WALL
GYP. BRD.	GYPSUM BOARD	TYP.	TYPICAL
H.B.	HOSE BIBB	U.N.O.	UNLESS NOTED OTHERWISE
H.C.	HANDICAPPED		
HD.	HEAD	V.C.T.	VINYL COMPOSITION TILE
H.M.	HOLLOW METAL	V.T.	VINYL TILE
HOL.MTL.	HOLLOW METAL	W/	WITH
HR.	HOUR	W.W.M.	WELDED WIRE MESH
HT.	HEIGHT	W.W.F.	WELDED WIRE FABRIC
I.D.	INSIDE DIAMETER	WD.	WOOD
IN.	INCH	WIN.	WINDOW
INCMG	INCOMING	VEST.	VESTIBULE
INFO.	INFORMATION	VDT.	VIDEO DISPLAY TERMINAL
INSUL.	INSULATION		
INT.	INTERIOR		
INV.	INVERT		

CODE CRITERIA

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	2006
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code	2006	Guidelines	CURRENT

A. Occupancy and Group: M S-1
Change in Use: Yes ___ No X Mixed Occupancy: Yes X No ___
Special Use and Occupancy (e.g. High Rise, Covered Mall):

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

C. Type of Construction (circle one):
I A I B II A II B III A III B IV HT V A V B

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

E. Mixed Occupancies: ___ Nonseparated Uses: X

F: Sprinklers:
Required: ___ Provided: X Type of Sprinkler System: AUTOMATIC
INSTALLED PER/ NFPA 13: Standard for the Installation of Sprinkler Systems

G: Number of Stories: 1 Building Height: 1

H: Actual Area per Floor (square feet): 12,253 SQ FT

I: Tabular Area: 9000 SQ FT

J: Area Modifications:

$$\times A_a = A_t + \left[\frac{A_1 I_1}{100}\right] + \left[\frac{A_2 I_2}{100}\right] \qquad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$$

$$\times 40140 = 9000 + \left[\frac{9000 \times .46}{100}\right]\left[\frac{9000 \times 3}{100}\right] \qquad .46 = 100\left[\frac{365}{510} - 0.25\right]\frac{30}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies:
$\frac{\text{Actual Area}}{\text{Allowable Area}} \le 1$ $\frac{6225 \text{ (GROUP M)}}{40140} \le 1$ $\frac{6186 \text{ (GROUP S-1)}}{40140} \le 1$

c) Total Allowable Area for:
1) One Story: >40140
2) Two Story: $A_a(2)$ ___
3) Three Story: $A_a(3)$ ___

d) Unlimited Area Building: Yes ___ No ___ Code Section: ___

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

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

L. Design Occupant Load: 124
Exit Width Required: 2 DOORS @ 36 = 72 Exit Width Provided: 180

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
c) Bath Tubs or Showers: 0
d) Drinking Fountains: 2 Service Sinks: 1

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

DEFERRED SUBMITTALS

1. CONCRETE MIX DESIGN	DUE WITHIN 30 DAYS OF CONTRACT AWARD
2. OPEN WEB STEEL JOIST, GIRDERS, AND DECK	DUE WITHIN 45 DAYS OF CONTRACT AWARD
3. AUTOMATIC FIRE SPRINKLING SYSTEM PER NFPA 13	DUE WITHIN 45 DAYS OF CONTRACT AWARD
4. PRECAST CONCRETE	DUE WITHIN 45 DAYS OF CONTRACT AWARD
5. LANDSCAPE SPRINKLING	DUE WITHIN 60 DAYS OF CONTRACT AWARD
6. SYNTHETIC STUCCO	DUE WITHIN 60 DAYS OF CONTRACT AWARD
7. SYNTHETIC STONE	DUE WITHIN 60 DAYS OF CONTRACT AWARD

SCHEDULE OF DRAWINGS

COVER SHEETS
G001 COVER SHEET
G002 SCHEDULE OF DRAWINGS, MOUNTING STANDARDS, CODE REVIEW
G003 SPECIAL INSPECTION REQUIREMENTS

SURVEY
ALTA SURVEY

SITE DEVELOPMENT
AS101 SITE PLAN AND GRADING PLAN
AS102 SITE GRADING PLAN
AS103 SITE UTILITY PLAN
AS501 SITE DETAILS
LS101 LANDSCAPING PLAN
LS102 LANDSCAPE PLAN – ENLARGED LANDSCAPE AREAS

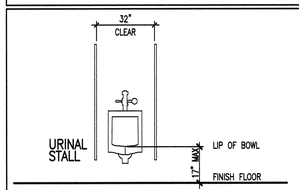
ARCHITECTURAL
A101 FLOOR PLANS
A102 REFLECTED CEILING PLAN
A103 ROOF PLAN, SECTIONS AND DETAILS
A104 INTERIOR ELEVATIONS AND MISCELLANEOUS INTERIOR DETAILS
A105 INTERIOR ELEVATIONS AND MISCELLANEOUS DETAILS
A106 ENLARGED FLOOR PLANS AND MISCELLANEOUS DETAILS
A201 EXTERIOR ELEVATIONS
A301 WALL SECTIONS
A302 WALL SECTIONS
A303 WALL SECTIONS
A304 WALL SECTIONS
A305 WALL SECTIONS
A306 WALL SECTIONS
A307 WALL SECTIONS
A308 WALL SECTIONS
A309 WALL SECTIONS
A501 MISCELLANEOUS DETAILS
A502 MISCELLANEOUS DETAILS
A601 DOOR, WINDOW AND FINISH SCHEDULES

STRUCTURAL
S001 STRUCTURAL NOTES
S101 FOOTING & FOUNDATION PLAN
S102 ROOF FRAMING PLAN
S201 STRUCTURAL DETAILS
S202 STRUCTURAL DETAILS

MECHANICAL
M0.1 MECHANICAL SCHEDULE & GENERAL NOTES
M1.1 ROOF PLAN
M2.1 HVAC FLOOR PLAN
M2.2 PLUMBING FLOOR PLAN
M6.1 MECHANICAL DETAILS
M6.2 MECHANICAL DETAILS
M6.3 MECHANICAL DETAILS
M6.4 MECHANICAL DETAILS

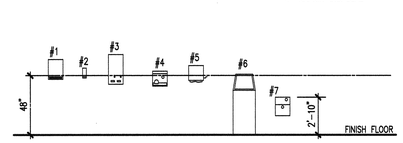
ELECTRICAL
E100 ELECTRICAL SYMBOLS, NOTES & LEGEND
E101 SITE PLAN – ELECTRICAL
E102 SITE PLAN – LIGHTING CALCULATIONS
E201 FLOOR PLAN – POWER & SYSTEMS
E202 ROOF PLAN – POWER
E301 FLOOR PLAN – LIGHTING
E401 ELECTRICAL RISER DIAGRAMS
E501 ELECTRICAL SCHEDULES
E601 ELECTRICAL DETAILS

TYPICAL HANDICAP TOILET ROOM MOUNTING STANDARDS

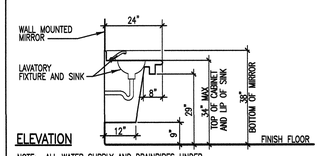


TYPICAL HANDICAP URINAL CLEARANCES

1. PAPER TOWELS
2. SOAP DISPENSER
3. SANITARY NAPKIN DISPENSER
4. HAND DRYER
5. ROLL TOWEL
6. TRASH RECEPTACLE
7. NAPKIN DISPOSAL

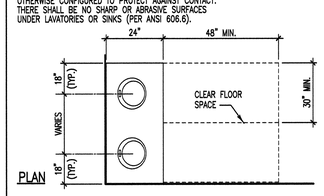


MISCELLANEOUS MOUNTING HEIGHTS



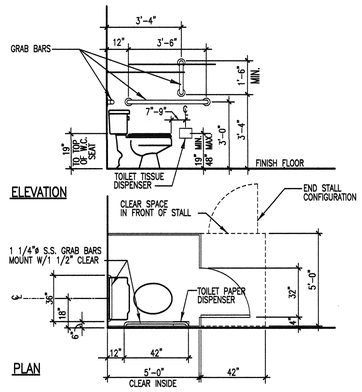
ELEVATION

NOTE: ALL WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS (PER ANSI 606.6).



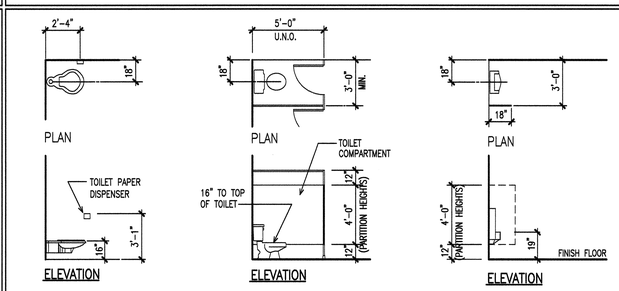
PLAN

TYPICAL HANDICAP LAVATORY CLEARANCES

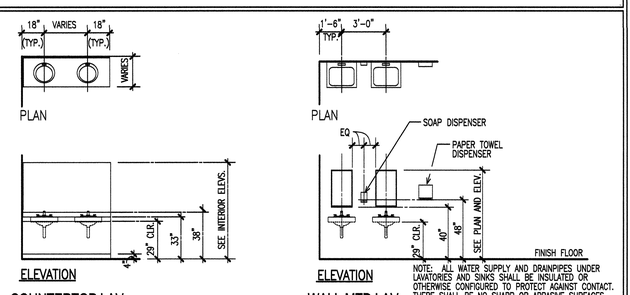


TYPICAL HANDICAP TOILET ROOM CLEARANCES

TYPICAL (NON-HANDICAPPED) TOILET ROOM MOUNTING STANDARDS



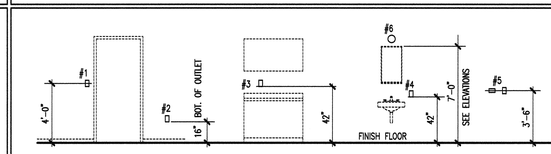
WALL MOUNTED W.C. — FLOOR MOUNTED WITH COMPARTMENT — URINAL STALL



COUNTERTOP LAV — WALL MTD LAV

NOTE: ALL WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS (PER ANSI 606.6)

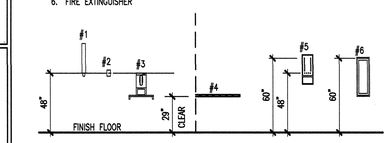
TYPICAL MISCELLANEOUS MOUNTING STANDARDS



ELECTRICAL OUTLETS AND SWITCHES

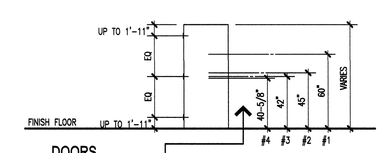
ITEM DESIGNATION
1. TYPICAL SWITCH HEIGHT
2. TYPICAL OUTLET HEIGHT
3. TYPICAL OUTLET HEIGHT AT COUNTERTOP
4. TYPICAL G.F.I. OUTLET HEIGHT AT LAVATORY
5. TYPICAL OUTLET HEIGHT FOR LAUNDRY ROOM AND UTILITY ROOM
6. TYPICAL BATH LIGHT FIXTURE HEIGHT

ITEM DESIGNATION
1. PAPER CUP DISPENSER
2. ELECTRIC SWITCH/THERMOSTAT/FIRE ALARM
3. TELEPHONE
4. COUNTER TOP/DESK
5. ELEVATOR CONTROLS
6. FIRE EXTINGUISHER

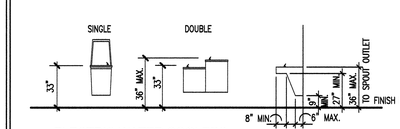


MISCELLANEOUS MOUNTING HEIGHTS

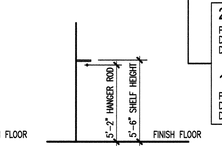
ITEM DESIGNATION
1. DEADLOCK AND STRIKE
2. PUSH AND PULL LATCHES, ARM PULL, (LOWER BASE), PULL PLATE CENTER LINE
3. BAR AND PULL CENTER LINE
4. CENTER LINE STRIKE, KNOB, LOCKS, HANDLE SETS, ROLLER LATCHES, EXIT BOLTS LOCKS



DOORS



ELECTRIC WATER COOLERS



CLOSETS

24" CLEARANCE
PROVIDE 24" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PULLS TOWARDS YOU.

18" CLEARANCE
PROVIDE 18" MINIMUM CLEARANCE FROM EDGE OF DOOR (@ LATCH SIDE) TO ADJACENT WALL WHEN DOOR PUSHES AWAY FROM YOU.

NEW SPRINGVILLE LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

SCHEDULE OF DRAWINGS, MOUNTING STANDARDS, CODE REVIEW

STATE OF UTAH — FRANK N. MURDOCK — 224498 — REGISTERED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONSTR. DOC.
FILE NAME: ABCSV-G002
PLOT SCALE: 1:1
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

G 002

SPECIAL INSPECTION AND TESTING (IBC 1704)

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

FABRICATORS (IBC1704.2)

☒ Approved Fabricator	Fabricator's Name: To be selected from DFCM Approved Fabricator List for 2009
☐ Unapproved Fabricator	Fabricator's Name:

In-plant inspections

☐ Steel Construction ☐ Welding ☐ Details

STEEL (IBC1704.3)

Item			Reference/Comments
High Strength Bolting(1704.3.3)	☐ Continuous	☒ Periodic	Verify prior to concealment by other systems/finishes
WELDING (1704.3.1)			
Details (1704.3.2)			
Complete & partial penetration groove welds	☒ Continuous	☐ Periodic	
Multipass fillet welds	☒ Continuous	☐ Periodic	
Single-pass fillet welds > 5/16"	☒ Continuous	☐ Periodic	
Single-pass fillet welds ≤ 5/16"	☐ Continuous	☒ Periodic	Verify prior to concealment by other systems/finishes
Floor & roof deck welds	☐ Continuous	☒ Periodic	Verify prior to concealment by other systems/finishes
REINFORCEMENT STEEL	☐ Continuous		
Verification of weldability	☐ Continuous	☐ Periodic	
Shear wall and shear reinforcement	☐ Continuous	☐ Periodic	
Other reinforcement	☐ Continuous	☐ Periodic	
Steel frame joint details	☐ Continuous	☐ Periodic	

CONCRETE CONSTRUCTION (IBC1704.4)

Item			Reference/Comments
Materials (1704.4.1)	☐ Continuous	☒ Periodic	Verify prior to each concrete pour
Steel placement	☐ Continuous	☒ Periodic	Verify prior to each concrete pour
Steel welding	☐ Continuous	☐ Periodic	
Bolts prior & during placement	☒ Continuous	☐ Periodic	
Use of required design mix	☐ Continuous	☒ Periodic	Verify prior to each concrete pour
Concrete sampling for strength test, slump, air content, and temperature of concrete	☒ Continuous	☐ Periodic	
Concrete & shotcrete placement	☒ Continuous	☐ Periodic	
Curing temperature and techniques	☐ Continuous	☒ Periodic	Verify prior to each concrete pour
Pre-stressed concrete	☐ Continuous	☐ Periodic	
Pre-cast concrete	☐ Continuous	☐ Periodic	
Posttensioned concrete	☐ Continuous	☐ Periodic	
Form work	☐ Continuous	☒ Periodic	Verify prior to each concrete pour

MASONRY CONSTRUCTION (IBC1704.5)

Item			Reference/Comments
As masonry construction begins:			
Site prepared mortar	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Construction of mortar joints	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Location of reinforcement, connectors, pre-stressing tendons and anchorages	☐ Continuous	☐ Periodic	
Pre-stressing technique	☐ Continuous	☐ Periodic	
Grade and size of pre-stressing tendons and anchorages	☐ Continuous	☐ Periodic	
Inspection program verify:			
Size and location of structural elements	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Type, size and location of anchors	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Size, grade and type of reinforcement	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Welding of reinforcement	☐ Continuous	☐ Periodic	
Cold and hot weather protection	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Application and measurement of pre-stressing force	☐ Continuous	☐ Periodic	
Prior to grouting verify			
Clean grout space	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Placement of reinforcement	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Grout mix	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Mortar joints	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Grout placement	☒ Continuous	☐ Periodic	
Grout and mortar specimens and prisms	☒ Continuous	☐ Periodic	
Construction and submittal compliance verification	☐ Continuous	☒ Periodic	Verify prior to each grout pour
Empirical masonry – Cat. I-III (1708.1.1)	☐ Continuous	☐ Periodic	
Empirical masonry – Cat. IV (1708.1.1)	☐ Continuous	☐ Periodic	
Engineered masonry – Cat. I-III 1708.1.1	☐ Continuous	☐ Periodic	
Engineered masonry – Cat. IV (1708.1.1)	☐ Continuous	☐ Periodic	
Engineering & pre-stressing steel (1708.3)	☐ Continuous	☐ Periodic	
Structural steel (1708.4)	☐ Continuous	☐ Periodic	
Qualification of mechanical & electrical equipment (1708.5)	☐ Continuous	☐ Periodic	
Seismically isolated structures (1708.6)	☐ Continuous	☐ Periodic	
Testing for seismic resistance is	☐ Continuous	☐ Periodic	

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	WHY REQUIRED	ON CONST. DOCUMENTS	DEFERRED SUBMITTAL	COMMENTS
Architectural Components:				
Interior Nonstructural Walls & Partitions		X		See sheet A002
Cantilever Elements(i.e. parapets, etc.)		X		See sheet A004
Exterior Nonstructural Wall Elements			X	Precast cladding system / curtain wall system
Veneer		X		See sheet A003
Penthouses	X			
Ceilings (i.e. suspended grid or hard-lid)		X		See sheet A002 & specifications
Cabinets (i.e. storage cabinets, equip. etc.)		X		See sheet A004
Access Floors	X			
Storage Racks	X			
Appendages & Ornamentations	X			
Signs & Billboards	X			
Other: Suspended ceiling closure		X		See sheet A002 & specifications
Other:				
MEP Components:				
Fire Sprinklers			X	
Mechanical Equipment (i.e. HVAC fans, air handlers, boilers, furnaces, heat chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MRI equipment, etc.)			X	Mechanical submittal
Electrical Equipment (i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)			X	Electrical submittal
Elevator & Escalator Components			X	Elevator submittal
Communication Equipment, Computers, Instrumentation, and Controls	X			
Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers	X			
Lighting Fixtures		X		See sheet A002 & specifications
Vibration Isolated Components	X			
Piping & Conduit Systems			X	Mechanical & Electrical submittals
Ductwork (including in-line components)			X	Mechanical submittal
Connectors	X			
Cable Trays			X	Electrical submittal
Other: Refrigeration Equipment			X	Mechanical submittal
Other:				

NOTES:

1. Deferred submittals for seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.
2. When seismic restraint of non-structural components is installed prior to receiving DFCM approval it shall not be covered or concealed until receiving both plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.
3. The requirements for seismic restraint of nonstructural components cannot be satisfied by a general reference to Design Manuals. The design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of ASCE 7-05, Chapter 13.
4. Submittals must include details of the proposed seismic restraint of nonstructural components. These details must show specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and location of transverse and longitudinal cross bracing and roll stiffeners. Submittals may also require structural calculations, engineering reports, test data, and/or specifications to ensure code compliance.

WOOD CONSTRUCTION (IBC1704.6)

Item			Reference/Comments
Prefabricated elements & assembly	☐ Continuous	☐ Periodic	

SOILS CONSTRUCTION (IBC1704.7)

Item			Reference/Comments
Site preparation	☐ Continuous	☒ Periodic	Verify prior to covering
Structural fill material	☐ Continuous	☒ Periodic	Verify prior to covering
Structural fill lift thickness	☐ Continuous	☒ Periodic	Verify prior to covering
Structural fill soil densities	☒ Continuous	☐ Periodic	
Backfill soils materials	☒ Continuous	☐ Periodic	
Backfill soil densities	☒ Continuous	☐ Periodic	
Fill material under side walks and parking	☒ Continuous	☐ Periodic	
Fill soil densities under side walks and parking	☒ Continuous	☐ Periodic	

PILE FOUNDATIONS (IBC1704.8)

Item			Reference/Comments
Observe driving operation and reporting	☐ Continuous	☐ Periodic	
Verify placement & installation data	☐ Continuous	☐ Periodic	

PIER FOUNDATIONS (IBC1704.9)

Item			Reference/Comments
Observe drilling operation and reporting	☐ Continuous	☐ Periodic	
Verify placement & installation data	☐ Continuous	☐ Periodic	

SPRAYED FIRE-RESISTANT MATERIALS (IBC1704.10)

Item			Reference/Comments
Structural member surface conditions	☐ Continuous	☐ Periodic	
Material application	☐ Continuous	☐ Periodic	
Material thickness	☐ Continuous	☐ Periodic	
Material density	☐ Continuous	☐ Periodic	
Bonding strength	☐ Continuous	☐ Periodic	

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

Item			Reference/Comments
Material and installation	☐ Continuous	☐ Periodic	

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

Item			Reference/Comments
Material and installation	☐ Continuous	☒ Periodic	Verify prior to covering

ALTERNATIVE CONSTRUCTION METHODS OR MATERIALS (IBC1704.13)

Item			Reference/Comments
Material and installation	☐ Continuous	☐ Periodic	

EPOXY (IBC1704.13)

Item			Reference/Comments
Material and installation	☐ Continuous	☒ Periodic	Verify prior to covering

SMOKE CONTROL (IBC1704.14)

Item			Reference/Comments
Material	☐ Continuous	☐ Periodic	
Installation	☐ Continuous	☐ Periodic	

Special inspection for seismic resistance (IBC1707)

Item			Reference/Comments
Structural Steel (1707.2)	☐ Continuous	☐ Periodic	
Structural Wood (1707.3)	☐ Continuous	☐ Periodic	
Cold-formed steel framing (1707.4)	☐ Continuous	☐ Periodic	
Pier foundations (1707.5)	☐ Continuous	☐ Periodic	
Storage racks & access floors (1707.6)	☐ Continuous	☐ Periodic	
Architectural components (1707.7)	☐ Continuous	☐ Periodic	
Mechanical & electrical items (1707.8)	☐ Continuous	☐ Periodic	
Designated systems verification (1707.9)	☐ Continuous	☐ Periodic	
Seismic isolation systems (1707.10)	☐ Continuous	☐ Periodic	

Inspection of seismic resistance is not required per IBC 1705.3 ☐

OTHER

Item			Reference/Comments
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	

Special Inspectors shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a Special Inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.1.2 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hrs. of inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the drawings, specifications and applicable codes. IBC 1704.1.2

NEW SPRINGVILLE LIQUOR STORE
DEPT. OF ALCHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UT

FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220

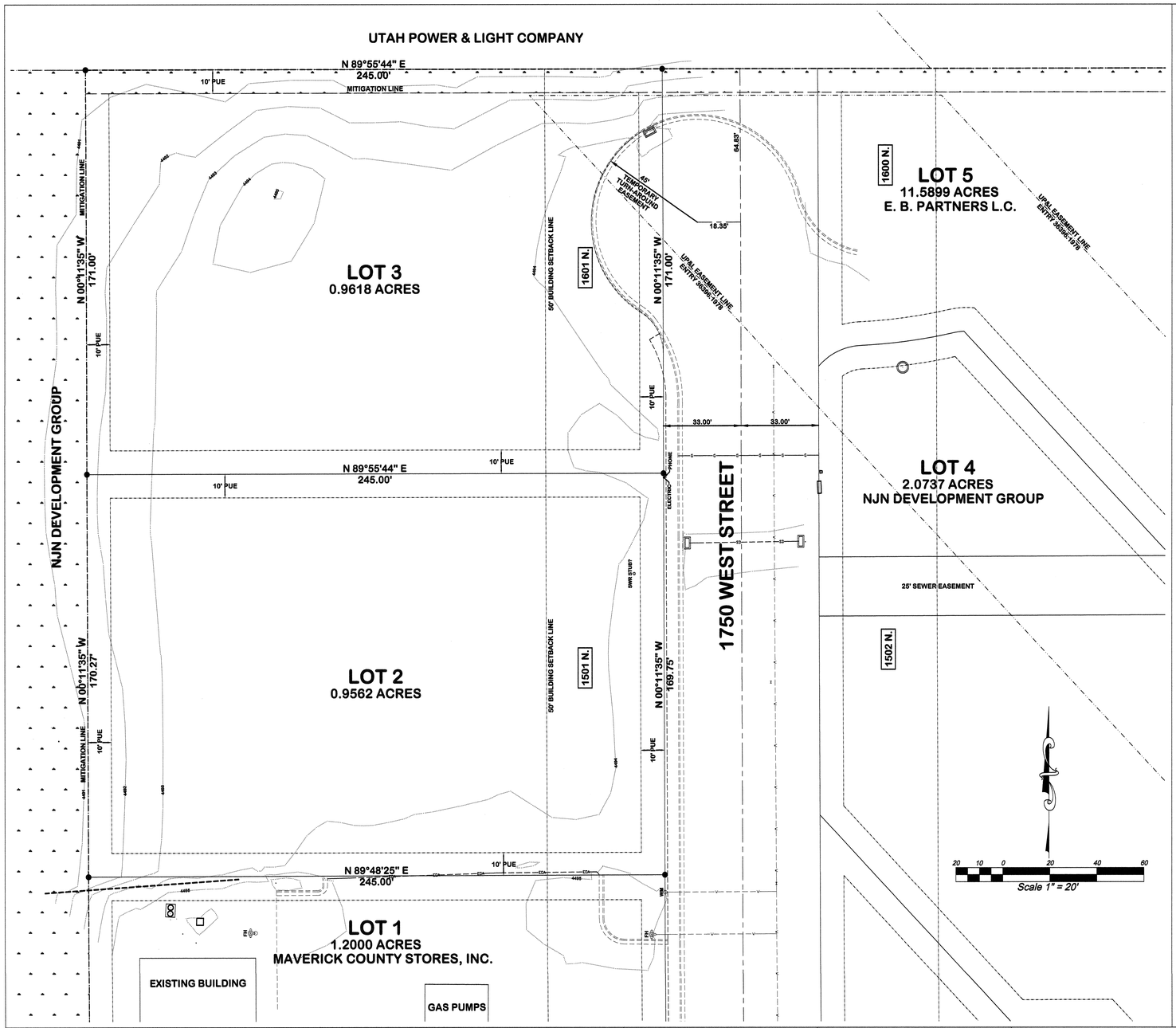
SPECIAL INSPECTION REQUIREMENTS

STATE OF UTAH
FRANK N. MURDOCK
124493
LICENSED ARCHITECT

REVISION #	DATE:
1 PERMIT RESPONSE	04-22-10

DFCM PROJECT NO.:
08226030
CONSTRUCTION DOCS
FILE NAME: G003.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 15, 2010

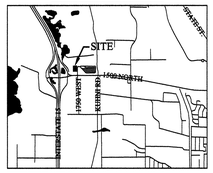
G003



PLAT LEGEND

- REBAR & CAP
- CATCH BASIN
- MANHOLE
- FIRE HYDRANT
- WATER VALVE
- BOUNDARY LINE
- LOT LINE
- TITLE LINE
- CENTERLINE ROAD
- PUE / SETBACK LINE
- BUILDING LINE
- CURB/WALK LINE
- MITIGATION LINE
- CONTOUR LINE
- WATER LINE
- STORM DRAIN LINE
- GAS LINE
- EDGE OF ASPHALT

VICINITY MAP



COMMITMENT FOR TITLE INSURANCE

A COMMITMENT OF TITLE INSURANCE # 7-017473 (FIFTH AMENDED), ISSUED BY BACKMAN TITLE SERVICES, DATED AUGUST 28, 2008.

SCHEDULE A:

ITEMS 1 THROUGH 4	SURVEYOR MAKES NO COMMENT.
ITEM 5	SEE PLAT DESCRIPTION.

SCHEDULE B-1:

ALL ITEMS	SURVEYOR MAKES NO COMMENT.

SCHEDULE B-2:

ITEM 1	SURVEYOR MAKES NO COMMENT.
ITEMS 2 THROUGH 4	SEE PLAT.
ITEMS 5 AND 6	SURVEYOR MAKES NO COMMENT.
ITEM 7	SEE FOLLOWING NOTE.
ITEMS 8 THROUGH 10	SURVEYOR MAKES NO COMMENT.
ITEMS 11 THROUGH 13	SEE PLAT.
ITEM 14	SEE FOLLOWING NOTE.
ITEM 15	SEE PLAT FOR EASEMENT LOCATION.
ITEM 16	BLANKET EASEMENT FOR SUBDIVISION.
ITEM 17 AND 18	SEE FOLLOWING NOTES.
ITEM 19	SURVEYOR MAKES NO COMMENT.
ITEM 20	SEE FOLLOWING NOTE.
ITEM 21	SEE PLAT.

* NOTES
- ITEMS 7, 14, 17, AND 20 - NOTE ON PLAT STATES THAT WETLAND AREAS WITHIN PLAT MAY BE REMOVED. EXCEPTION TO SAID NOTE IS THE NORTHERLY 10 FEET OF THE PLAT AS WELL AS THE PROPERTY WEST OF THE PLAT WHICH IS DEFINED IN AN AGREEMENT RECORDED AS ENTRY #73077:1997 IN THE UTAH COUNTY RECORDER'S OFFICE AND CORRECTED BY PEPG ENGINEERING ON SEPT 4, 2008. SAID DOCUMENT LIMITS CONSTRUCTION, GRAZING OR ALTERATION OF SAID AREA NOTED AS MITIGATION SITE ON THIS DRAWING UNLESS APROVAL IS OBTAINED FROM THE U.S. ARMY CORPS OF ENGINEERS.
- ITEM 18 - NO GASOLINE SALES ARE ALLOWED ON SUBJECT PROPERTY TIL AFTER JANUARY 2018 AS PER AN AGREEMENT WITH MAVERICK COUNTRY STORES, INC.

ALTA / ASCM TABLE "A"

1.	MONUMENTS PLACED	SEE PLAT.
2.	VICINITY MAP	SEE PLAT.
3.	FLOOD ZONE DESIGNATION	ZONE A4 (ELEV. 4495).
4.	LAND AREA	SEE PLAT.
5.	CONTOURS	SEE PLAT.
6.	APPLICABLE ZONING OR BUILDING CODES	RC - REGIONAL COMMERCIAL.
7.	EXTERIOR DIMENSION OF ALL BUILDINGS	NOT REQUIRED.
8.	SUBSTANTIAL VISIBLE IMPROVEMENTS	SEE PLAT.
9.	PARKING AREAS	NOT REQUIRED.
10.	INDICATION OF ACCESS TO PUBLIC WAY	SEE PLAT.
11.	LOCATION OF UTILITIES SERVING OR EXISTING	SEE PLAT.
12.	GOVERNMENTAL AGENCY REQUIREMENTS	NOT REQUIRED.
13.	NAMES OF ADJOINING OWNERS	SEE PLAT.
14.	DISTANCE TO NEAREST INTERSECTING STREET	NOT REQUIRED.
15.	ORTHO OR PHOTOGRAMMETRIC MAPPING	NOT USED.
16.	OBSERVED EVIDENCE OF RECENT CONSTRUCTION	NONE FOUND.
17.	STREET CONSTRUCTION/CHANGES IN ALIGNMENT	NONE FOUND.
18.	OBSERVED EVIDENCE OF LANDFILL	NONE FOUND.

PROPERTY DESCRIPTION

Lot 2 & 3, Plat "A", N J N Subdivision, Springville, Utah, according to the official plat thereof on file and of record in the office of the Utah County Recorder.
Basis of Bearing = Utah State Plane Coordinates, Central Zone

SURVEYOR'S CERTIFICATION

To State of Utah Division of Facilities Construction and Management; NJN Development Group, LC; and Backman Title Services:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA and NSPS in 2005, and includes Items 1, 2, 3, 4, 5, 6, 8, 10, 11, 13, 16, 17, and 18 of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of Utah, the Relative Positional Accuracy of this survey does not exceed that which is specified therein.

DATE DAVID V. THOMAS - RLS NO. 163947

REVISIONS	DATE	PROJECT NAME	LOTS 2 & 3, N J N SUBDIVISION PLAT "A"	PREPARED BY:	PREPARED FOR:	SHEET TITLE	DATE:	SEPT. 11, 2008
		ADDRESS +/-	1501 & 1601 NORTH 1750 WEST STREET	AZTEC ENGINEERING, INC. 491 NORTH 450 WEST OREM, UTAH 84057 (801) 224-7308	STATE OF UTAH DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT, 4110 STATE OFFICE BUILDING SALT LAKE CITY, UT 84114	ALTA / ACSM LAND TITLE SURVEY	SCALE:	1"=20'
		CITY: SPRINGVILLE	COUNTY: UTAH STATE: UTAH			LOCATED IN THE SE 1/4 OF SECTION 19. TOWNSHIP 7 SOUTH, RANGE 3 EAST, SLB&M	DRAFTED BY:	A.D.T.
						SPRINGVILLE UTAH	TRACING NO.:	A-1462

SITE INFORMATION

PARKING:

PARKING STALLS	57 STALLS
ACCESSIBLE STALLS	3 STALLS
PARKING TOTALS	60 STALLS

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
SEE SHEET AS103 FOR SITE UTILITY INFORMATION
SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

- CATCH BASIN
- STORM DRAIN MAN HOLE
- POWER POLE
- WATER VALVE
- ELECTRIC BOX
- FIRE HYDRANT
- SANITARY SEWER MAN HOLE
- LIGHT POST
- STREET LIGHT BOX
- GAS METER
- TELEPHONE BOX
- PL PROPERTY LINE
- L LANDSCAPE AREA
- SW SIDEWALK
- OVERHEAD TRANSMISSION LINE
- UNDERGROUND POWER
- SS SANITARY SEWER
- W WATER LINE
- T TELEPHONE LINE
- G GAS LINE
- C CABLE T.V.
- PARKING STALLS
- PROPERTY LINE
- CLL CONTRACT LIMIT LINE
- SF SILT FENCE
- x FENCE
- 4434 EXISTING GRADE CONTOUR
- 31 NEW GRADE CONTOUR
- CENTER LINE OF ROAD
- NEW SECURITY FENCE
- M SIGN, SEE 2/AS501 FOR SIGN TYPE AND 4/AS501 FOR SUPPORT DESCRIPTION
- NEW CONCRETE PAVING AND SIDEWALKS
- ROADWAY, SERVICE AND DOCK AREA (ASPHALT)
- TWO (2) 4" DIAMETER PVC PIPE SLEEVES

T.O.G	TOP OF GRATE
I.E.	INVERT ELEVATION
T.O.SW	TOP OF SIDEWALK
T.O.PV	TOP OF PAVEMENT
T.O.C.	TOP OF CONCRETE

ASPHALT ROADWAY AREAS, SHOWN HATCHED
3.5" THICK ASPHALT PAVING OVER 10" AGGREGATE BASE
REFER TO 10/AS501 AND SOILS REPORT
FOR INFORMATION REGARDING ASPHALT PAVING PROFILE

GENERAL NOTES

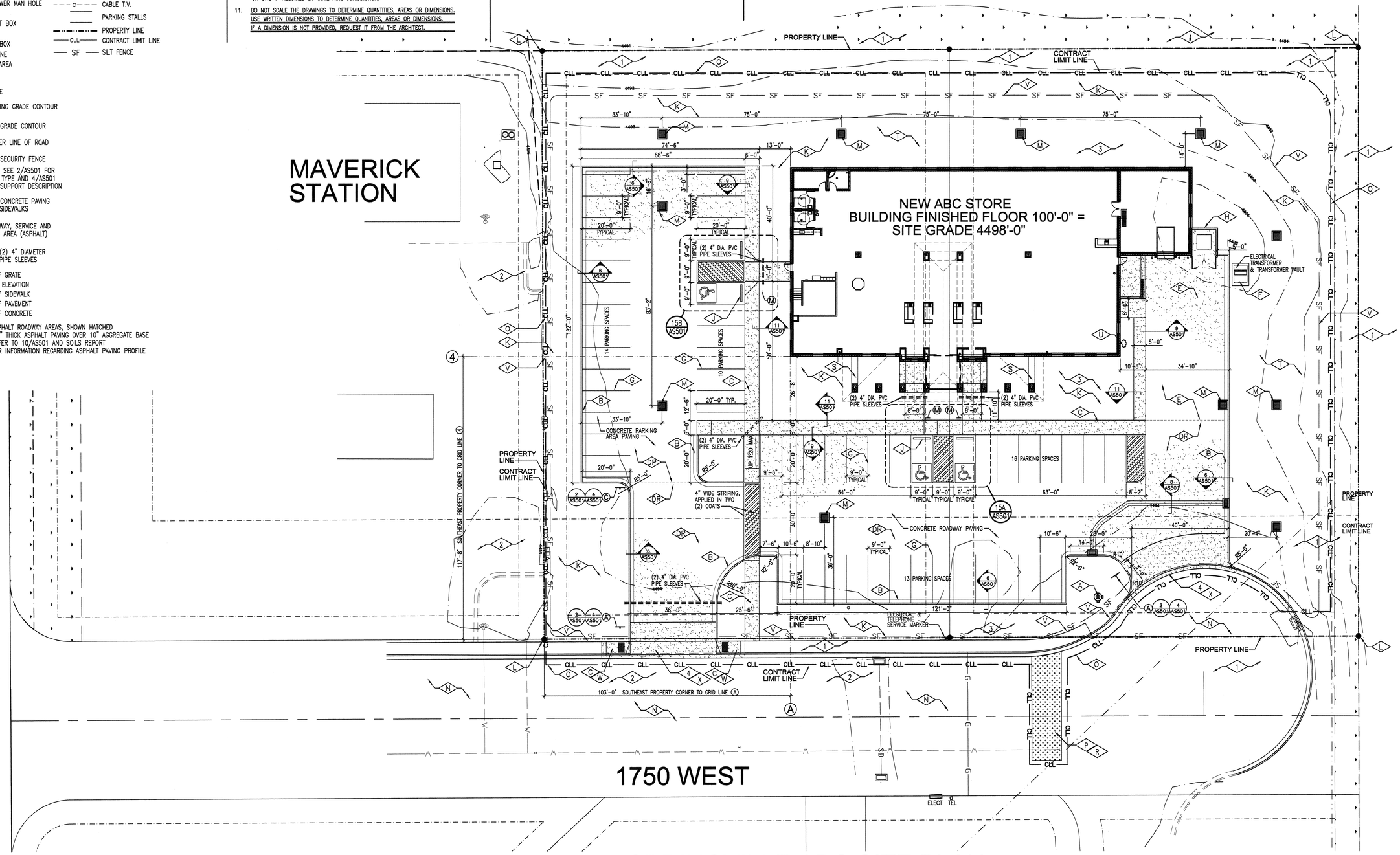
1. REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT OR CONCRETE PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
9. SAW CUT AND REMOVE DAMAGED ASPHALT AT EXISTING DRIVE APPROACH AND INSTALL NEW ASPHALT DRIVE PER SOILS REPORT.
10. PROVIDE AND INSTALL SILT FENCE AT INSIDE FACE OF EAST SIDEWALK AND AT THE NORTH, WEST AND SOUTH CONTRACT LIMIT LINES. LOCATE THE SLIT FENCE A MINIMUM OF 12'-0" AWAY FROM THE EXISTING "CAT TAILS" AT THE WEST AND NORTH CONTRACT LIMIT LINES. SILT FENCE IS TO EXTEND MINIMUM 6" BELOW GRADE AND MINIMUM 18" ABOVE GRADE. PROVIDE A POLLUTION PREVENTION PLAN FOR OFF-SITE WORK AND FOR WORK ON SITE IF REQUIRED BY GOVERNING JURISDICTION.
11. DO NOT SCALE THE DRAWINGS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. USE WRITTEN DIMENSIONS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. IF A DIMENSION IS NOT PROVIDED, REQUEST IT FROM THE ARCHITECT.

REFERENCE NOTES <1>

1. MAINTAIN AND PROTECT EXISTING SITE ELEMENTS TO REMAIN INCLUDING EXISTING LANDSCAPING, SIDEWALKS, STORM DRAIN BASIN, ASPHALT AND CURBS AND GUTTERS. MAINTAIN AND PROTECT EXISTING LANDSCAPING TO REMAIN DURING CONSTRUCTION.
2. MAINTAIN AND PROTECT EXISTING SITE ELEMENTS ON ADJACENT PROPERTIES. IMMEDIATELY REPAIR OR REPLACE ANY DAMAGE TO ADJACENT PROPERTY CAUSED BY WORK ASSOCIATED WITH THIS CONTRACT.
3. REMOVE AND PROPERLY DISPOSE OF EXISTING LANDSCAPING INCLUDING ALL TREES AND SHRUBS ON SITE. TYPICAL IN ALL AREAS OF NEW CONSTRUCTION SEE SOILS REPORT FOR THE DEPTH OF GRUBBING IN THIS AREA.
4. SAW CUT, REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND PREPARE FOR NEW CONCRETE DRIVE APPROACH.

KEY NOTES <A>

- A NEW FIRE HYDRANT & VALVES INSTALL PER SPRINGVILLE CITY ENGINEERING DEPT. REQUIREMENTS. DETAIL PS03 & PS08
- B NEW CONCRETE CURB AND GUTTER. SEE DETAIL 6/AS501.
- C NEW 4" THICK CONCRETE SIDEWALK. SEE DETAILS 11, 12 AND 13 ON SHEET AS501. ALIGN WITH EDGES, WIDTH AND ELEVATIONS OF EXISTING SIDEWALKS WHERE NEW AND EXISTING SIDEWALKS MEET.
  JOINTS AS NOTED BELOW TYPICAL UNLESS NOTED OTHERWISE:
  CONTROL JOINT IN CONCRETE SIDEWALK: @ 5'-0" O.C., SEE DETAIL 12/AS501.
  EXPANSION JOINT IN CONCRETE SIDEWALK: @ 20'-0" O.C., SEE DETAIL 13/AS501.
- DR NEW ROADWAY CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
- DP NEW PARKING CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
- E NEW 8" THICK CONCRETE PAVING. SEE DETAIL 10/AS501 FOR PAVEMENT SECTION. REINFORCE W/#5 BARS @ 16" O.C. BOTH WAYS SEE SOILS REPORT FOR DEPTH OF FILL AND COMPACTION REQUIREMENTS IN THIS AREA.
- F NEW CONCRETE TRANSFORMER AND TRANSFORMER VAULT.
- G NEW PARKING STRIPING, SEE DETAIL 3/AS501.
- H NEW TINTED CMU DUMPSTER SCREEN WALL.
- J NEW CONCRETE WHEEL STOP.
- K NEW LANDSCAPE AREA, SEE SHEET LS-101.
- L PROPERTY LINE.
- M NEW CATCH BASIN, SEE SHEET AS103 & DETAIL 22/AS501
- N EXISTING ASPHALT ROADWAY. MAINTAIN AND PROTECT. KEEP CLEAR OF MUD AND DEBRIS FROM WORK UNDER THIS CONTRACT.
- O CONTRACT LIMIT LINE
- P REMOVE AND PROPERLY DISPOSE OF ANY ASPHALT CONCRETE PAVING. REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION. SAW CUT ALL EDGES.
- R REPLACE ASPHALT DISTURED BY NEW WATER CONNECTION INSTALL PER SPRINGVILLE CITY ENGINEERING DEPT. REQUIREMENTS.
- S NEW 4" THICK X 2'-4" WIDE CONCRETE SLAB. SEE DETAILS 11/AS501.
- T 4" MINUS WASHED COBBLE STONE OVER 6 OZ/SQ YD LANDSCAPE FABRIC. COBBLE DEPTH MINIMUM 4" THICK
- U GAS METER
- V SILT FENCE LOCATION – SEE GENERAL NOTES
- W ADA RAMP INSTALL PER SPRINGVILLE CITY ENGINEERING DEPT. REQUIREMENTS. DETAIL PRD08 SIMILAR W/SIDEWALK PARALLEL & ADJACENT TO CURB & GUTTER W/YELLOW POLYMER COMPOSITE/FIBERGLASS TRUNCATED DOME DETECTABLE WARNING PANEL.
- X NEW CONCRETE DRIVE APPROACH – THICKNESS PER 10/AS501 INSTALL PER SPRINGVILLE CITY ENGINEERING DEPT. REQUIREMENTS. DETAIL RD06



SPRINGVILLE ABC SITE PLAN

SCALE: 1" = 16' 0 8' 16' 32' 48' 64'

NEW SPRINGVILLE LIQUOR STORE
DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

SITE PLAN

STATE OF UTAH
FRANK N. MURDOCK
#244893
LICENSED ARCHITECT
3/22/10

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-AS101
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

AS 101

SITE INFORMATION

PARKING:

PARKING STALLS	57 STALLS
ACCESSIBLE STALLS	3 STALLS
PARKING TOTALS	60 STALLS

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
SEE SHEET AS103 FOR SITE UTILITY INFORMATION
SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

- CATCH BASIN
- STORM DRAIN MAN HOLE
- POWER POLE
- WATER VALVE
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- FIRE HYDRANT
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- PROPERTY LINE
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- CENTER LINE OF ROAD
- x x NEW SECURITY FENCE
- SIGN, SEE 2/AS501 FOR SIGN TYPE AND 4/AS501 FOR SUPPORT DESCRIPTION
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- TWO (2) 4" DIAMETER PVC PIPE SLEEVES

T.O.G	TOP OF GRATE
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ASPHALT ROADWAY AREAS, SHOWN HATCHED
3.5" THICK ASPHALT PAVING OVER 10" AGGREGATE BASE
REFER TO 10/AS501 AND SOILS REPORT
FOR INFORMATION REGARDING ASPHALT PAVING PROFILE

GENERAL NOTES

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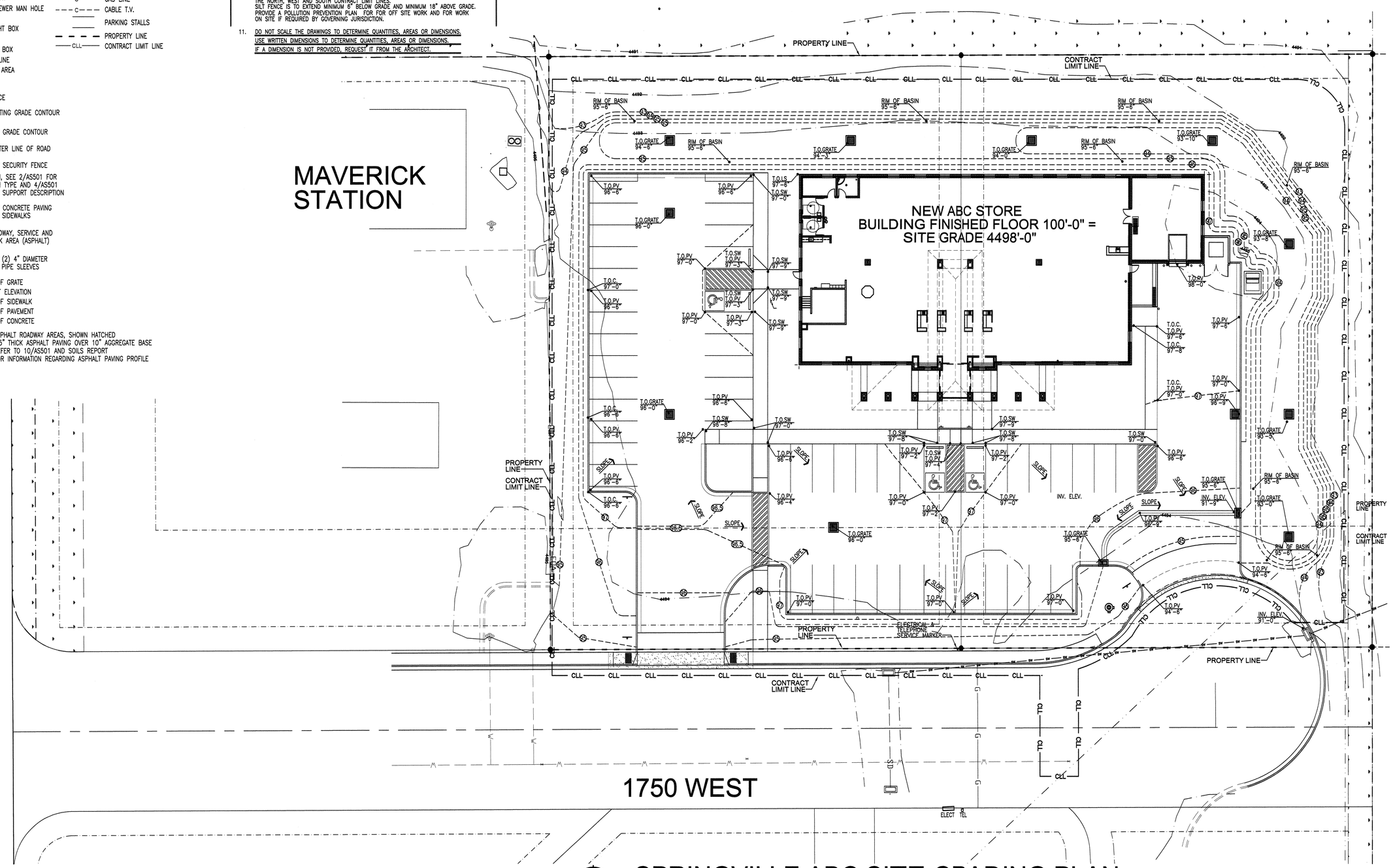
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
9. SAW CUT AND REMOVE DAMAGED ASPHALT AT EXISTING DRIVE APPROACH AND INSTALL NEW ASPHALT DRIVE PER SOILS REPORT.
10. PROVIDE AND INSTALL SILT FENCE AT INSIDE FACE OF EAST CURB AND GUTTER AND AT THE NORTH, WEST AND SOUTH CONTRACT LIMIT LINES. SILT FENCE IS TO EXTEND MINIMUM 6" BELOW GRADE AND MINIMUM 18" ABOVE GRADE. PROVIDE A POLLUTION PREVENTION PLAN FOR FOR OFF SITE WORK AND FOR WORK ON SITE IF REQUIRED BY GOVERNING JURISDICTION.
11. DO NOT SCALE THE DRAWINGS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. USE WRITTEN DIMENSIONS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. IF A DIMENSION IS NOT PROVIDED, REQUEST IT FROM THE ARCHITECT.



SPRINGVILLE ABC SITE GRADING PLAN

SCALE: 1" = 16' 0 8' 16' 32' 48' 64'

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH
FRANK N. MURDOCK
124498
03/26/10
LICENSED ARCHITECT

SITE GRADING PLAN

REVISION # DATE:

DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-AS102
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

AS 102

SITE INFORMATION

PARKING:

PARKING STALLS	57 STALLS
ACCESSIBLE STALLS	3 STALLS
PARKING TOTALS	60 STALLS

SITE DRAWINGS

SEE SHEET AS101 FOR GENERAL SITE INFORMATION AND DIMENSIONS
SEE SHEET AS102 FOR SITE GRADING AND STORM SEWER INFORMATION
SEE SHEET AS103 FOR SITE UTILITY INFORMATION
SEE SHEET AS501 FOR SITE DETAIL INFORMATION

SITE PLAN LEGEND

- CATCH BASIN
- STORM DRAIN MAN HOLE
- POWER POLE
- WATER VALVE
- ELECTRIC BOX
- FIRE HYDRANT
- SANITARY SEWER MAN HOLE
- LIGHT POST
- STREET LIGHT BOX
- GAS METER
- TELEPHONE BOX
- PL PROPERTY LINE
- L LANDSCAPE AREA
- SW SIDEWALK
- OVERHEAD TRANSMISSION LINE
- UNDERGROUND POWER
- SS SANITARY SEWER
- W WATER LINE
- T TELEPHONE LINE
- G GAS LINE
- C CABLE T.V.
- PARKING STALLS
- PROPERTY LINE
- CLL CONTRACT LIMIT LINE
- X FENCE
- 4434 EXISTING GRADE CONTOUR
- 31 NEW GRADE CONTOUR
- CENTER LINE OF ROAD
- X NEW SECURITY FENCE
- SIGN, SEE 2/AS501 FOR SIGN TYPE AND 4/AS501 FOR SUPPORT DESCRIPTION
- NEW CONCRETE PAVING AND SIDEWALKS
- ROADWAY, SERVICE AND DOCK AREA (ASPHALT)
- TWO (2) 4" DIAMETER PVC PIPE SLEEVES

T.O.G	TOP OF GRATE
I.E.	INVERT ELEVATION
T.O.SW	TOP OF SIDEWALK
T.O.PV	TOP OF PAVEMENT
T.O.C.	TOP OF CONCRETE

ASPHALT ROADWAY AREAS, SHOWN HATCHED
3.5" THICK ASPHALT PAVING OVER 10" AGGREGATE BASE
REFER TO 10/AS501 AND SOILS REPORT
FOR INFORMATION REGARDING ASPHALT PAVING PROFILE

GENERAL NOTES

1. REFER TO SITE DEVELOPMENT, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL SITE INFORMATION.
2. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES TO THE CONTRACT DOCUMENTS.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL POINTS.
4. CONTRACTOR SHALL NOT PARK, STORE EQUIPMENT, OR USE THE EXISTING ROAD FOR ANY PURPOSE OTHER THAN ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL NOT DISTURB OR USE ANY AREA OUTSIDE CONTRACT LIMIT LINE TO PARK OR STORE EQUIPMENT.
5. CONTRACTOR WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
6. ALL CUTTING, PATCHING, EXCAVATION AND BACKFILL DONE IN STREET SHALL BE DONE IN ACCORDANCE WITH UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
9. SAW CUT AND REMOVE DAMAGED ASPHALT AT EXISTING DRIVE APPROACH AND INSTALL NEW ASPHALT DRIVE PER SOILS REPORT.
10. PROVIDE AND INSTALL SILT FENCE AT INSIDE FACE OF EAST CURB AND GUTTER AND AT THE NORTH, WEST AND SOUTH CONTRACT LIMIT LINES. SILT FENCE IS TO EXTEND MINIMUM 6" BELOW GRADE AND MINIMUM 18" ABOVE GRADE. PROVIDE A POLLUTION PREVENTION PLAN FOR FOR OFF SITE WORK AND FOR WORK ON SITE IF REQUIRED BY GOVERNING JURISDICTION.
11. DO NOT SCALE THE DRAWINGS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. USE WRITTEN DIMENSIONS TO DETERMINE QUANTITIES, AREAS OR DIMENSIONS. IF A DIMENSION IS NOT PROVIDED, REQUEST IT FROM THE ARCHITECT.

UTILITY FEES

1. THE OWNER SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION AND PERMIT FEES. CHARGES FOR IMPACT FEES BY UTILITIES OR MUNICIPALITIES ARE NOT TO BE CHARGED TO OR PAID BY THE CONTRACTOR OR THE STATE OF UTAH FOR STATE FACILITIES. PERMITTING BY LOCAL JURISDICTIONS IS ONLY REQUIRED FOR WORK PERFORMED OUTSIDE THE BOUNDARIES OF THE STATE PROPERTY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION AND PERMIT APPLICATIONS. THE CONTRACTOR SHALL PROVIDE TO THE OWNER COPIES OF THE INVOICES FOR UTILITY CONNECTIONS AND OFF SITE PERMITS.

SANITARY SEWER NOTES

1. ALL SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH LOCAL SEWER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES. MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES.

CULINARY WATER AND FIRE LINE SERVICE NOTES

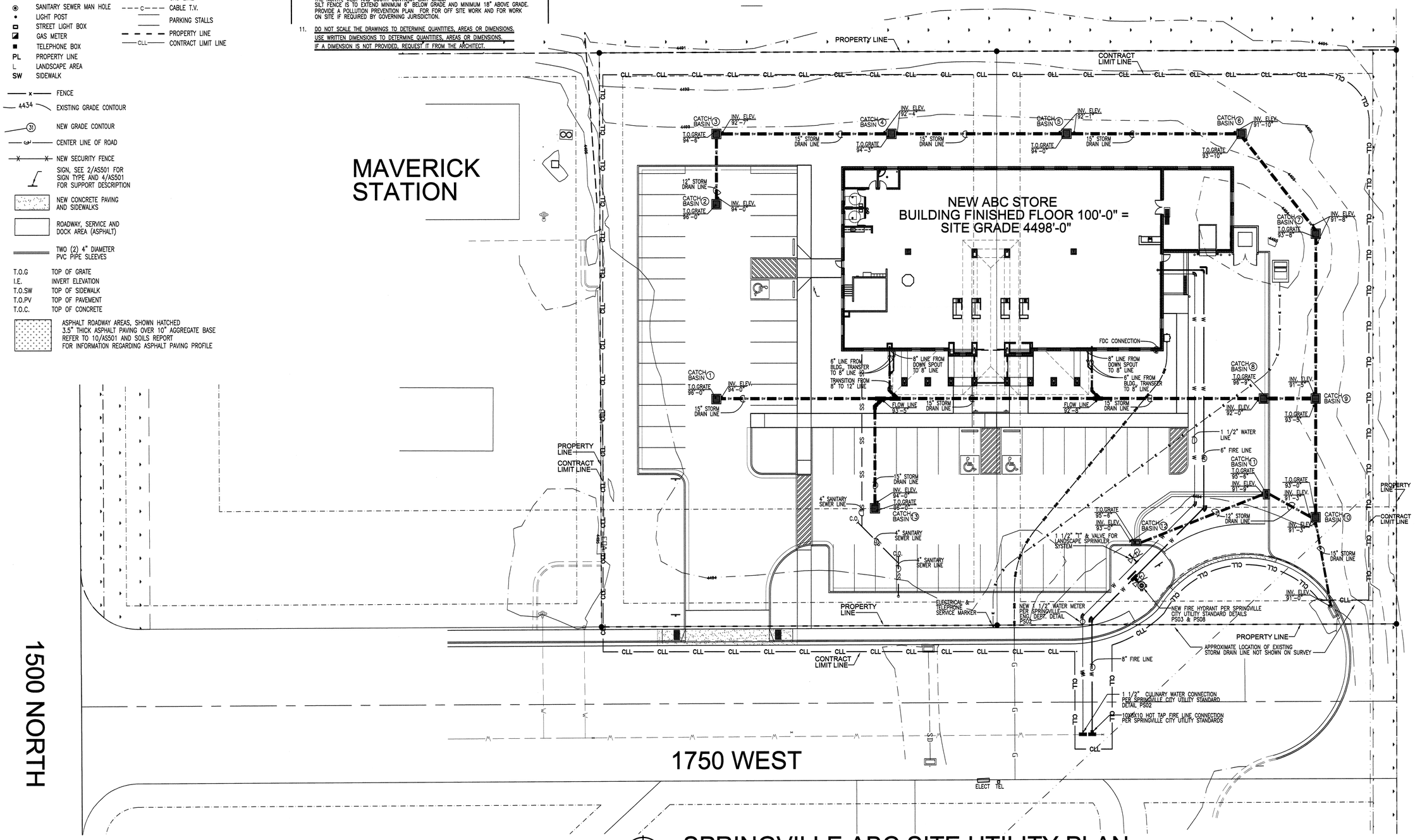
1. ALL WATER SERVICE LINES AND CONNECTION CONSTRUCTION SHALL COMPLY WITH LOCAL WATER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY SEWER LINES.
3. INSTALL 1 1/2" "T" FOR AUTOMATIC LANDSCAPE SPRINKLER SYSTEM CONNECTION. COORDINATE LOCATION W/ LANDSCAPE SUBCONTRACTOR. PROVIDE AND INSTALL BACKFLOW PREVENTER AND VALUES AS REQUIRED BY UTILITY PROVIDER

STORM SEWER NOTES

1. ALL OFF SITE SANITARY STORM CONSTRUCTION SHALL COMPLY WITH LOCAL STORM WATER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTION OF ANY STORM SEWER LINES.
2. INSTALL STORM WATER TREATMENT HOOD PER SPRINGVILLE CITY ENGINEERING DEPT DETAIL GS07 OR APPROVED EQUAL AT CATCH BASIN # 10 OUTLET TO CITY STORM WATER SYSTEM

CATCH BASIN LEGEND

1	3' X 3' X 3' DEEP
2	3' X 3' X 3' DEEP
3	3' X 3' X 3' DEEP
4	3' X 3' X 3' DEEP
5	3' X 3' X 3' DEEP
6	3' X 3' X 3' DEEP
7	3' X 3' X 3' DEEP
8	3' X 3' X 5' DEEP
9	3' X 3' X 3' DEEP
10	4' X 4' X 3' DEEP
11	2' X 3' X 5' DEEP
12	2' X 3' X 3' DEEP
13	3' X 3' X 3' DEEP



SPRINGVILLE ABC SITE UTILITY PLAN

SCALE: 1" = 16' 0 8' 16' 32' 48' 64'

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
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SITE UTILITY PLAN

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STATE OF UTAH FRANK N. MURDOCK 124498 3 LICENSED ARCHITECT 3/25/10

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AS 103

SITE INFORMATION

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ACCESSIBLE STALLS	3 STALLS
PARKING TOTALS	60 STALLS

SITE DRAWINGS

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7. PROVIDE PIPE SLEEVES WHERE SPRINKLER LINES PASS UNDER ASPHALT PAVEMENT OR RETAINING WALLS.
8. PROTECT ANY EXISTING STORM DRAINS FROM MUD AND DEBRIS DURING CONSTRUCTION.
9. SAW CUT AND REMOVE DAMAGED ASPHALT AT EXISTING DRIVE APPROACH AND INSTALL NEW ASPHALT DRIVE PER SOILS REPORT.
10. PROVIDE AND INSTALL SILT FENCE AT INSIDE FACE OF EAST CURB AND GUTTER AND AT THE NORTH, WEST AND SOUTH CONTRACT LIMIT LINES. SILT FENCE IS TO EXTEND MINIMUM 6" BELOW GRADE AND MINIMUM 18" ABOVE GRADE. PROVIDE A POLLUTION PREVENTION PLAN FOR FOR OFF SITE WORK AND FOR WORK ON SITE IF REQUIRED BY GOVERNING JURISDICTION.
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LANDSCAPING PLAN GENERAL NOTES

1. ALL AREAS NOTED AS "PLANTING" OR "LANDSCAPED AREA" (A), SHALL BE PROVIDED WITH A "DRIP" TYPE AUTOMATIC LANDSCAPE IRRIGATION SYSTEM AT ALL TREES AND SHUBS AND MICROSPINKLER HEADS AT ALL GROUND COVER AREAS. SLEEVES SHALL BE PROVIDED UNDER PAVED AREAS TO FACILITATE THE IRRIGATION SYSTEM. SEE SPECIFICATIONS FOR REQUIREMENTS.
2. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SLEEVES UNDER PAVED AREAS. WORK SHALL BE COORDINATED WITH PAVING CONTRACTOR.
3. INSTALL A MINIMUM OF 4" OF IMPORTED TOP SOIL AT ALL LANDSCAPED AREAS.
4. MINIMUM EXCAVATION FOR TREES SHALL BE A DIAMETER OF 2'-0" GREATER THAN THE ROOT BALL, AND 6" DEEPER THAN THE ROOT BALL. BACKFILL HOLE WITH TOPSOIL. COVER AREA INSIDE EDGING WITH BARK CHIPS (3" DEEP).
5. COMPLETELY COVER AREA AROUND SHRUB, TREE, AND GROUNDCOVER PLANTINGS WITH A 4" THICK LAYER OF BARK CHIPS OVER 6 OZ/SQ YARD LANDSCAPE FABRIC.
6. CONSTRUCT A 4" HIGH EARTHEN BERM AROUND ALL TREES AND SHRUBS. BERM TO BE SAME DIAMETER AS EXCAVATION FOR ROOT BALL PLANTING PIT.
7. MINIMUM EXCAVATION FOR SHRUBS SHALL BE A DIAMETER OF 12" GREATER THAN THE DIAMETER OF THE CONTAINER. EXCAVATION SHALL BE 18" DEEP MINIMUM. BACKFILL HOLE WITH TOP SOIL.
8. PROVIDE AND INSTALL COMPLETE AUTOMATIC LANDSCAPE SPRINKLING SYSTEM TO ALL LANDSCAPED AREAS. SEE SPECIFICATIONS FOR DETAILED SYSTEM REQUIREMENTS.
9. PROVIDE AND INSTALL A MINUMUM OF 3" OF BARK CHIPS IN ALL AREAS OF GROUND COVER AND PLANTING AREAS.
10. LANDSCAPING SHALL NOT BE CONSIDERED TO BE COMPLETE UNTIL AFTER 90 DAYS OF HEALTHY GROWTH. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL UNHEALTHY OR DEAD LANDSCAPING. CONTRACTOR SHALL REMAIN RESPONSIBLE FOR ALL REPLACED LANDSCAPING WITH THE 90 DAY HEALTHY GROWTH REQUIREMENT BEING APPLICABLE TO ALL REPLACED LANDSCAPING.
11. DO NOT RUN PIPE SLEEVES FOR LANDSCAPE SYSTEM UNDER THE BUILDING.
12. STAKE AND GUY SUPPORT ALL TREES. PROVIDE TREE TRUNK PROTECTION PLASTIC SLEEVES AT ALL TREES NOT PLANTED WITH SHRUBS AROUND THEIR BASE.
13. PROVIDE 4X6XCONT PRECAST OR POURED IN PLACE CONCRETE EDGING AND BARK CHIPS AT ALL TREES IN PLANTING AREAS. PROVIDE 4' DIAMETER CONCRETE EDGING CIRCLE, AT TREES IN LAWN AREAS, WHERE NO EDGING IS OTHERWISE NOTED.
14. ALL AREAS NOTED AS "SOD" (GRASS) AREA (C) SHALL BE PROVIDED WITH AN AUTOMATIC LANDSCAPE IRRIGATION SYSTEM. SLEEVES SHALL BE PROVIDED UNDER PAVED AREAS TO FACILITATE THE IRRIGATION SYSTEM. SEE SPECIFICATIONS FOR REQUIREMENTS.
15. NOTE: COORDINATE SCREENING OF THE INLINE FILTER TO ALLOW DRIP AND MICROSPRINKLER HEADS TO PROPERLY FUNCTION.

KEY NOTES

- (A) LANDSCAPE AREA WITH RANDOM CLUMPS OF GROUND COVER "MIX"
- (B) 4" MINUS WASHED COBBLE STONE OVER 6 OZ/SQ YD LANDSCAPE FABRIC. COBBLE DEPTH MINIMUM 4" THICK FROM BUILDING OR CURB EDGE TO EXISTING "CAT TAILS"
- (C) SOD

LANDSCAPING PLAN LEGEND

NOTE: MINIMUM SIZE FOR PLANTS

GROUND COVER – FLATS TO 5 GALLON
SHRUBS – 5 GALLON
DECIDUOUS TREES – 4" CALIPER
EVERGREENS – 10' TO 12'

NOTE:
"CALIPER" INDICATES THE DIAMETER OF THE TREE TRUNK TAKEN AT 6" ABOVE THE GROUND LEVEL.

SHRUBS

OG — *MAHONIA AQUIFOLIUM*
OREGON GRAPE
QUANTITY = 30

MP — *PINUS MUGO PUMILIO*
DWARF MUGO PINE
QUANTITY = 12

GRASS

SOD = BLUEGRASS VARIETIES

GROUND COVER

GROUNDCOVERS

GREATER PERIWINKLE QUANTITY = 120
VINA MAJOR

ATLAS DAISY QUANTITY = 120
ANACYCLUS DEPRESSUS

SNOW IN SUMMER QUANTITY = 120
CERASTIUM TOMENTOSUM

BEARDED IRIS QUANTITY = 120
IRIDACEAE

MIX — PLANT IN RANDOM PATTERN 12" O.C. IN "MIX" AREAS

25% GREATER PERIWINKLE	QUANTITY = 60 PLANTS
25% ATLAS DAISY	QUANTITY = 60 PLANTS
25% SNOW IN SUMMER	QUANTITY = 60 PLANTS
25% BEARDED IRIS	QUANTITY = 60 PLANTS

(A) MIX — PLANT IN RANDOM CLUSTERS IN "LANDSCAPE" AREAS

25% GREATER PERIWINKLE	QUANTITY = 60 PLANTS
25% ATLAS DAISY	QUANTITY = 60 PLANTS
25% SNOW IN SUMMER	QUANTITY = 60 PLANTS
25% BEARDED IRIS	QUANTITY = 60 PLANTS

TREES

HB — "HACKBERRY"
CELTIS OCCIDENTALIS
4" CALIPER
3

BOULDERS (BB)

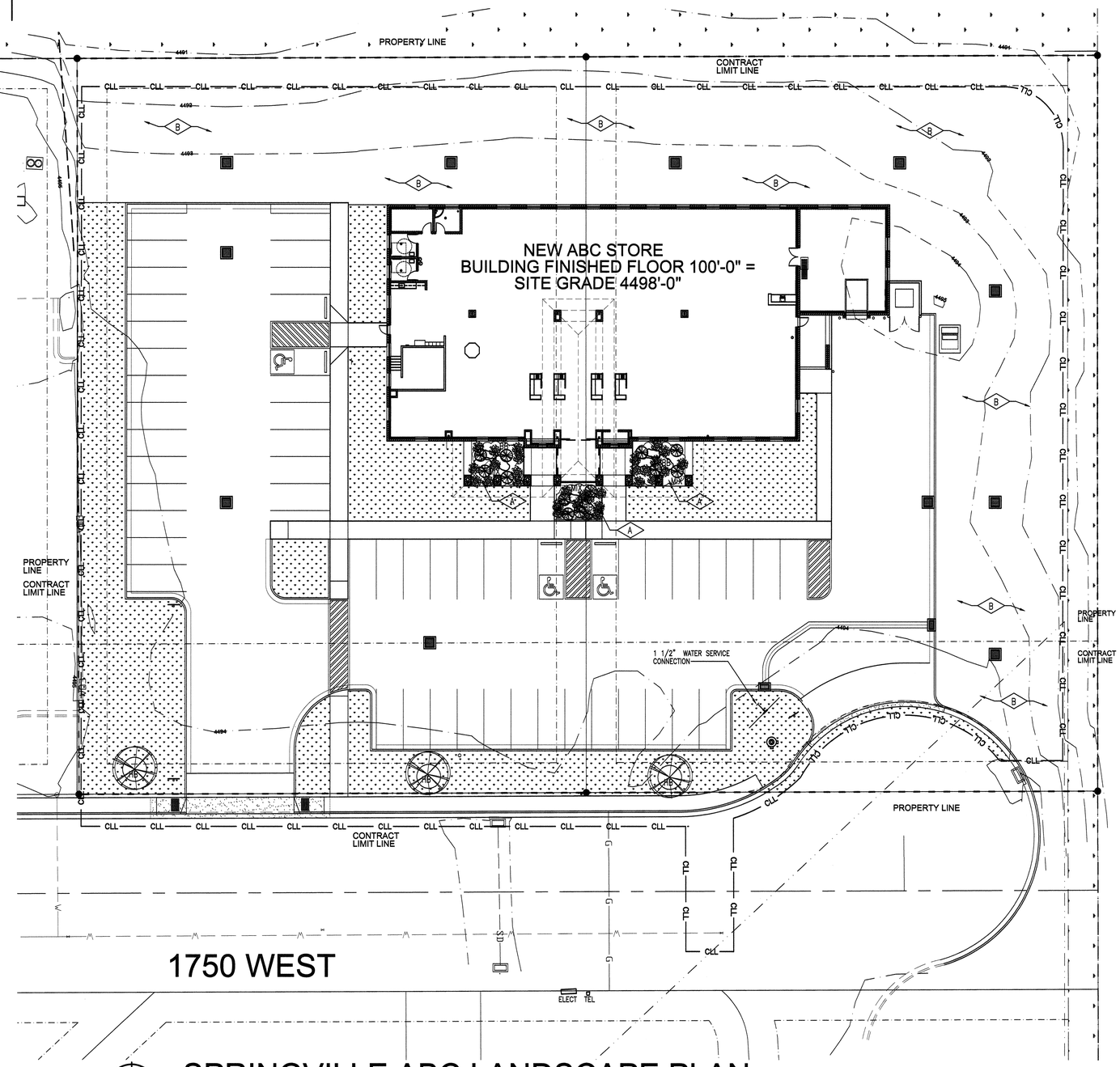
NOTE: IN ADDITION TO THE 9 - 48" LONG BY 30" HIGH BY 36" WIDE. LANDSCAPING BOULDERS INDICATED, PROVIDE AND INSTALL

8 BOULDERS WITH MINIMUM DIMENSIONS OF 48" LONG BY 30" HIGH BY 36" WIDE.

3 BOULDERS WITH MINIMUM DIMENSIONS OF 72" LONG BY 36" HIGH BY 42" WIDE.

PLACE AS DIRECTED BY ARCHITECT

BOULDERS ARE TO BE OF A TYPE NATIVE TO THE LOCAL AREA.



SPRINGVILLE ABC LANDSCAPE PLAN

SCALE: 1" = 16' 0 8' 16' 32' 48' 64'

NEW SPRINGVILLE LIQUOR STORE
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LANDSCAPE PLAN

STATE OF UTAH — FRANK N. MURDOCK — 124498 — 3/22/10 — LICENSED ARCHITECT

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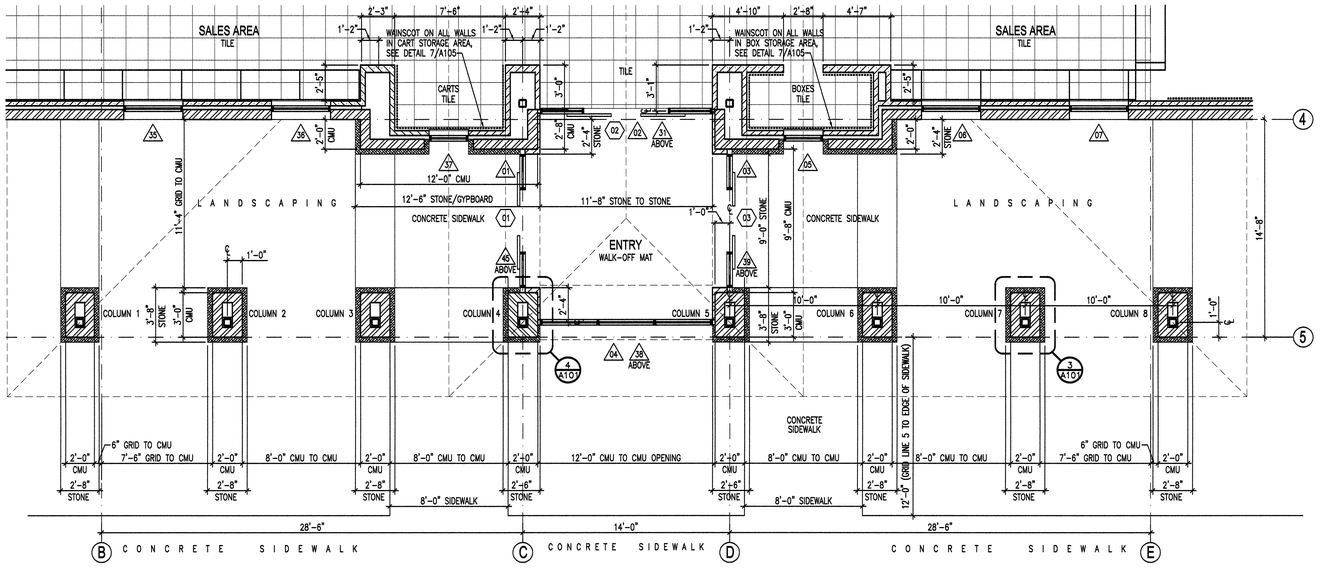
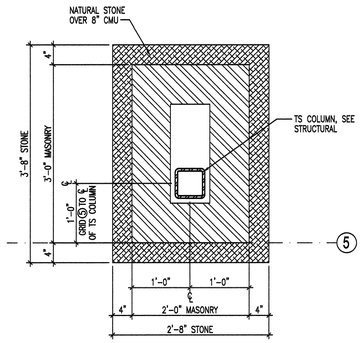
LS 101



2/A101 ENLARGED FLOOR PLAN AT FRONT ENTRANCE

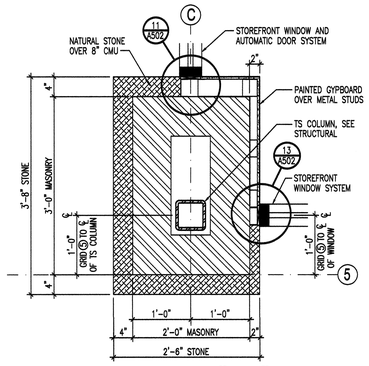
SCALE: 1/4" = 1'-0"



COLUMN PLAN TYPICAL AT COLUMNS 1, 2, 3, 6, 7 AND 8.

3/A101 ENLARGED PLAN AT COLUMN

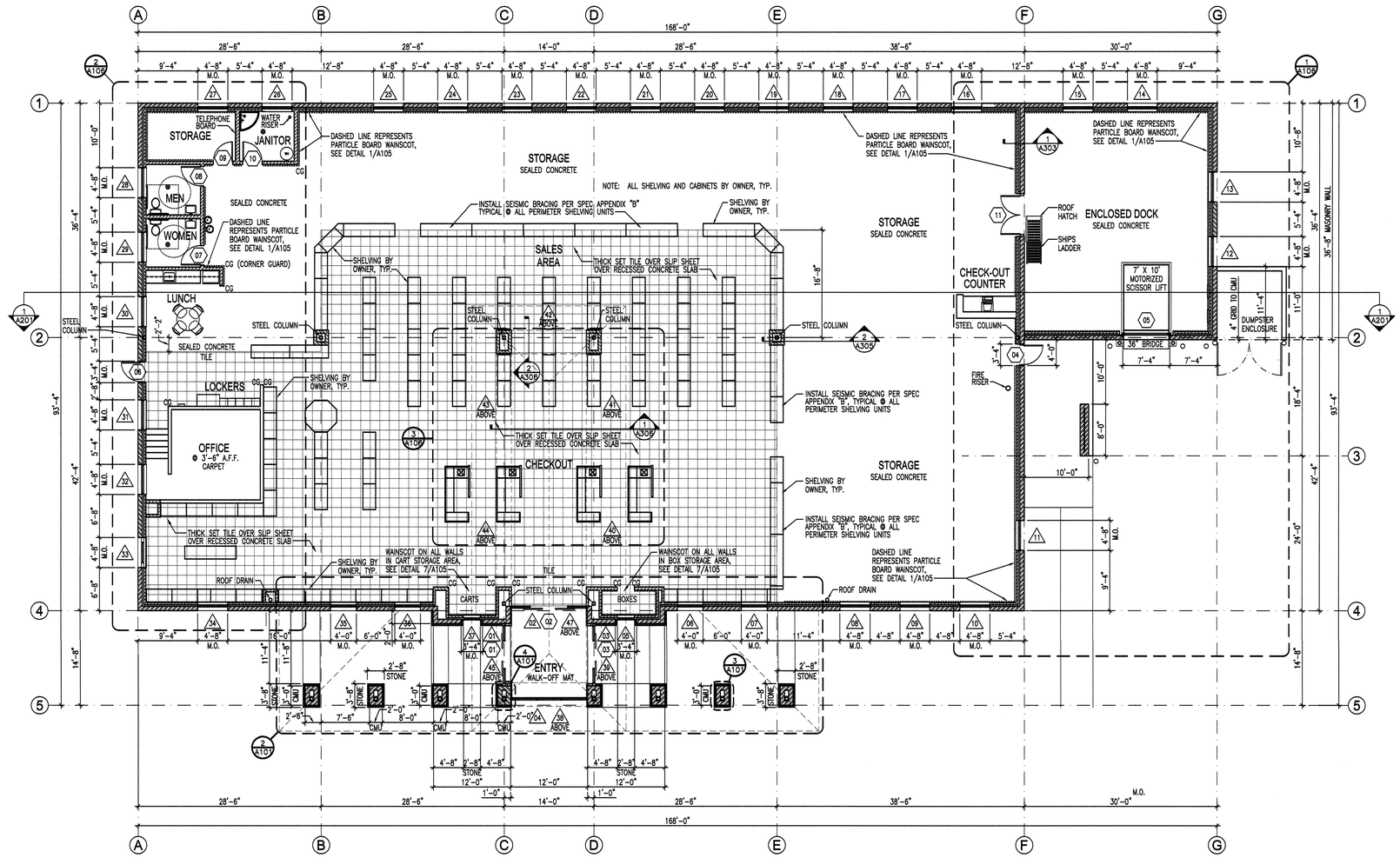
SCALE: NOT TO SCALE



COLUMN PLAN AT COLUMN 4, GRIDS Ⓒ AND ⑤
COLUMN PLAN MIRRORED AT COLUMN 5, GRIDS Ⓓ AND ⑤

4/A101 ENLARGED PLAN AT COLUMN

SCALE: NOT TO SCALE



1/A101 FLOOR PLAN

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

NOTES

1. PROVIDE SIGNAGE ABOVE ENTRY DOORS STATING "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS".
2. PROVIDE SIGNAGE DESIGNATING "PUBLIC RESTROOMS" AT LOCATION TO BE DETERMINED BY ARCHITECT.
3. CONTRACTOR SHALL PROVIDE AND INSTALL FOUR (4) FIRE EXTINGUISHERS (SEE SPECIFICATIONS FOR TYPE) IN LOCATIONS TO BE DETERMINED BY ARCHITECT.
4. IF REQUIRED BY THE LOCAL FIRE MARSHALL OR FIRE DEPARTMENT, THE CONTRACTOR SHALL PROVIDE AND INSTALL A "KNOX-BOX". THE FIRE MARSHALL OR FIRE DEPARTMENT SHALL SPECIFY THE TYPE OF "KNOX-BOX" TO BE INSTALLED AND SHALL ALSO DETERMINE THE LOCATION FOR INSTALLATION OF THE BOX.

WALL TYPE

1

BRACE TO ROOF DECK @ 4' O.C.

3 5/8" STUD INTERIOR PARTITION WALL:
PAINTED 5/8" GYPBOARD BOTH SIDES OF 3 5/8" METAL STUDS @ 16" ON CENTER, FROM FLOOR TO ROOF DECK OR TO 6" ABOVE CEILING WHERE CEILING OCCURS. PROVIDE DIAGONAL BRACING TO ROOF DECK @ 4' O.C. WHERE CEILING OCCURS. GYPBOARD @ WALL TO STOP @ GYPBOARD CEILING WHERE OCCURS. PROVIDE TILE WALLS AS SHOWN ON INTERIOR ELEVATIONS. INSTALL WATER-RESISTANT GYPBOARD @ ALL TOILET ROOMS. PROVIDE PROTECTIVE PARTICLE BOARD WAINSCOT AS SHOWN ON FLOOR PLANS, REFER TO DETAIL 1/A106.

WALL LEGEND

REINFORCED CMU

PAINTED GYPBOARD OVER METAL STUDS

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FLOOR PLANS

STATE OF UTAH
FRANK N. MURDOCK JR.
124498-5
3/22/10
LICENSED ARCHITECT

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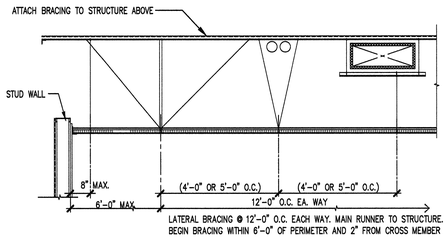
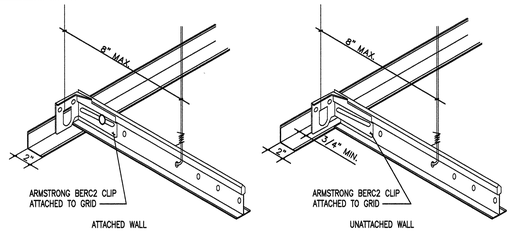




NOTE: CEILING TO BE INSTALLED PER SECTION 1621 OF THE 2006 IBC

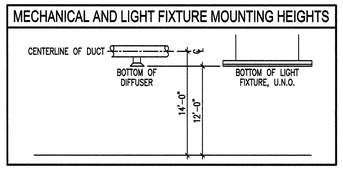
5 / A102.1 TYPICAL LAY-IN CEILING BRACING DETAILS

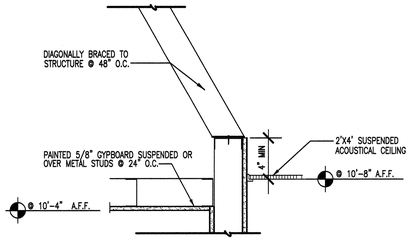
SCALE: NOT TO SCALE

REFLECTED CEILING PLAN LEGEND

4' WALL MOUNTED LIGHTING FIXTURE	8' SUSPENDED LIGHTING FIXTURE	2'X4' SUSPENDED ACOUSTICAL CEILING CEILING, PROVIDE SEISMIC BRACING, SEE 1/A102	E.S. — PAINTED EXPOSED STRUCTURE CONDUITS AND DUCTS HEIGHT MAY VARY
2' SURFACE MOUNTED LIGHTING FIXTURE	UNIT HEATER	METAL SOFFIT PANEL	MSP — METAL SOFFIT PANEL
SECURITY LIGHT	TRACK LIGHT	RETURN REGISTER	AC — 2'X4' SUSPENDED ACOUSTICAL CEILING
2' X 4' FLUORESCENT LIGHTING FIXTURE	8' SUSPENDED INDIRECT LIGHTING FIXTURE	SUPPLY DIFFUSER	GB — GYPSUM BOARD CEILING
RECESSED LIGHTING FIXTURE	WALL MOUNTED LIGHTING FIXTURE	EXHAUST FAN	SSXGB — SYNTHETIC STUCCO OVER EXTERIOR GYPSUM SOFFIT BOARD
4' SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE	EXTERIOR WALL MOUNTED LIGHTING FIXTURE	GYPSUM BOARD SOFFIT	0'-0" — CEILING OR SOFFIT HEIGHT (HEIGHT MEASURED FROM FINISHED FLOOR ELEV.: 0'-0")

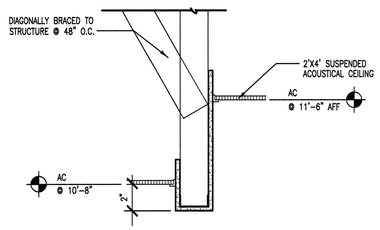
MECHANICAL AND LIGHT FIXTURE MOUNTING HEIGHTS





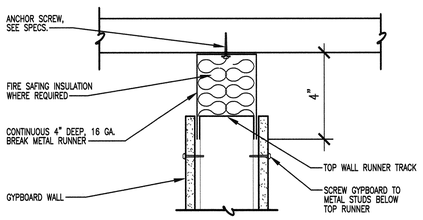
4 / A102 INTERIOR WALL BRACING

SCALE: NOT TO SCALE



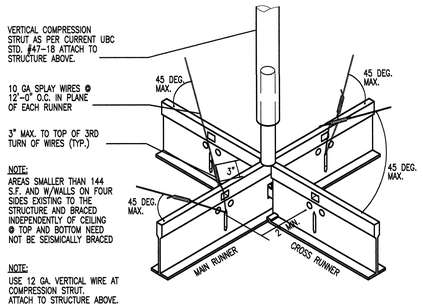
3 / A102 CEILING DROP DETAIL

SCALE: NOT TO SCALE



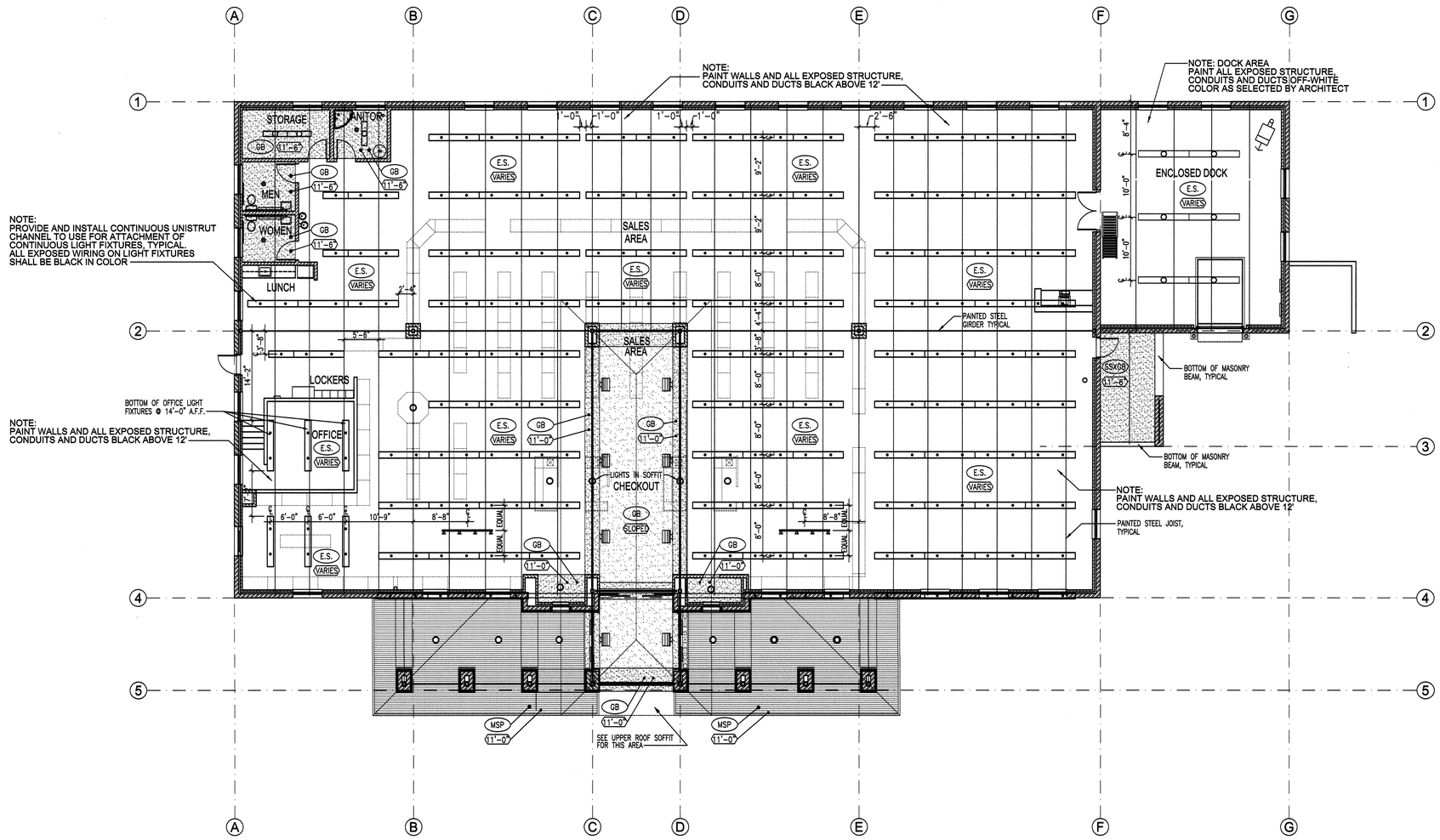
2 / A102 SLIP JOINT DETAIL

SCALE: NOT TO SCALE



1 / A102 SEISMIC BRACING DETAIL

SCALE: NOT TO SCALE



REFLECTED CEILING PLAN

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

0' 2' 4' 8' 16'

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

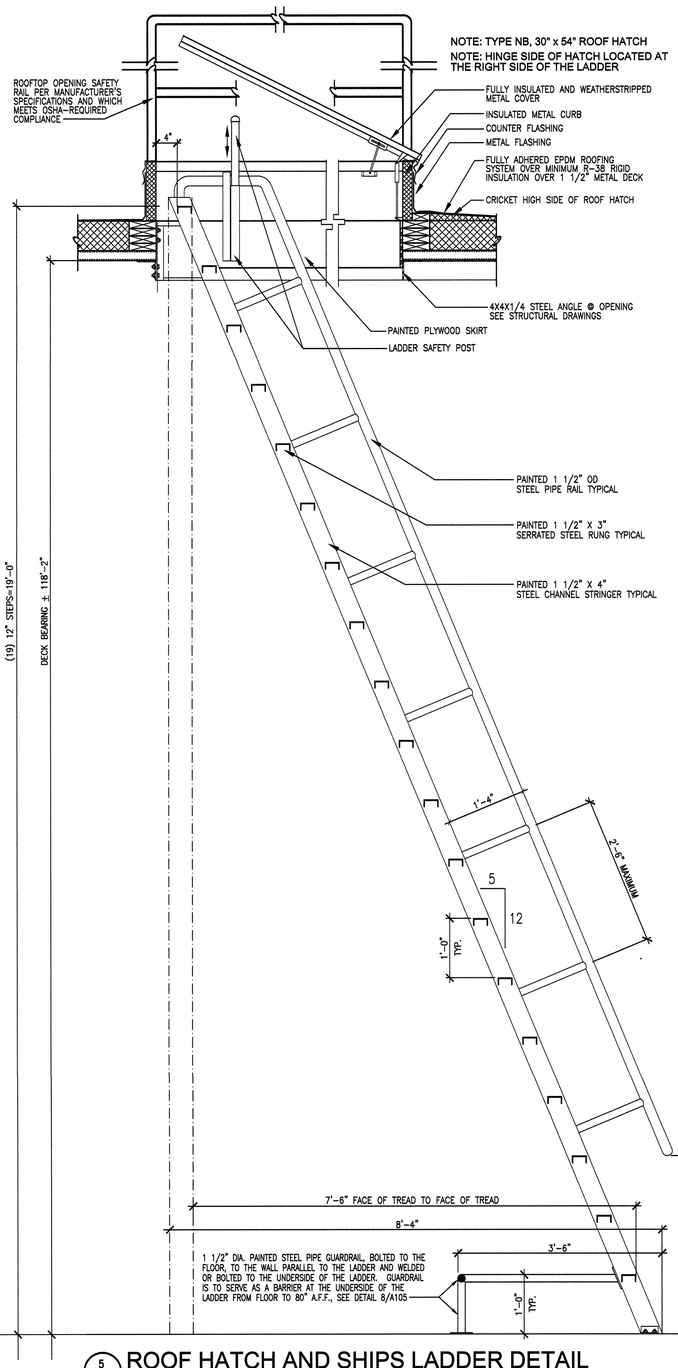
REFLECTED CEILING PLAN

STATE OF UTAH
FRANK N. MURDOCK
124498
3/22/10
LICENSED ARCHITECT

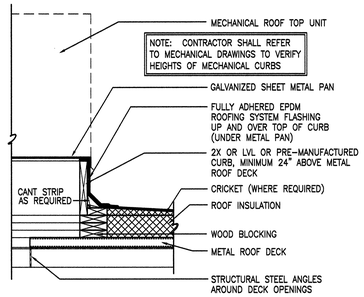
REVISION #	DATE:

DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-A102
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

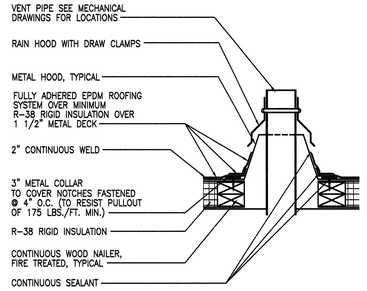
A
102



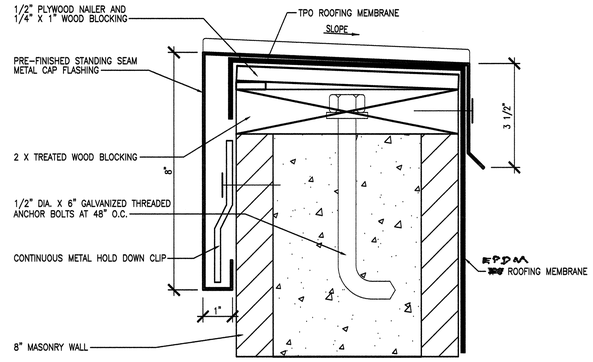
5 A103 ROOF HATCH AND SHIPS LADDER DETAIL
SCALE: 1" = 1'-0"



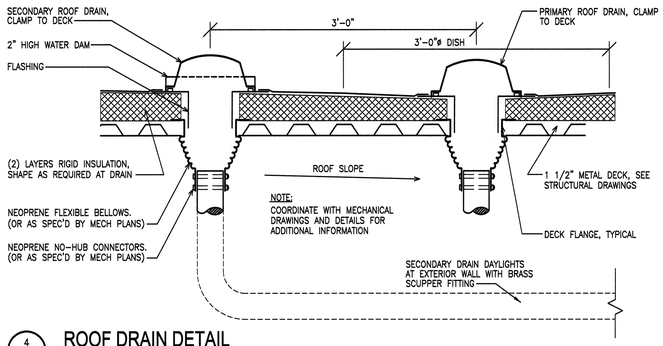
3 A103 ROOF CURB DETAIL
SCALE 1" = 1' - 0"



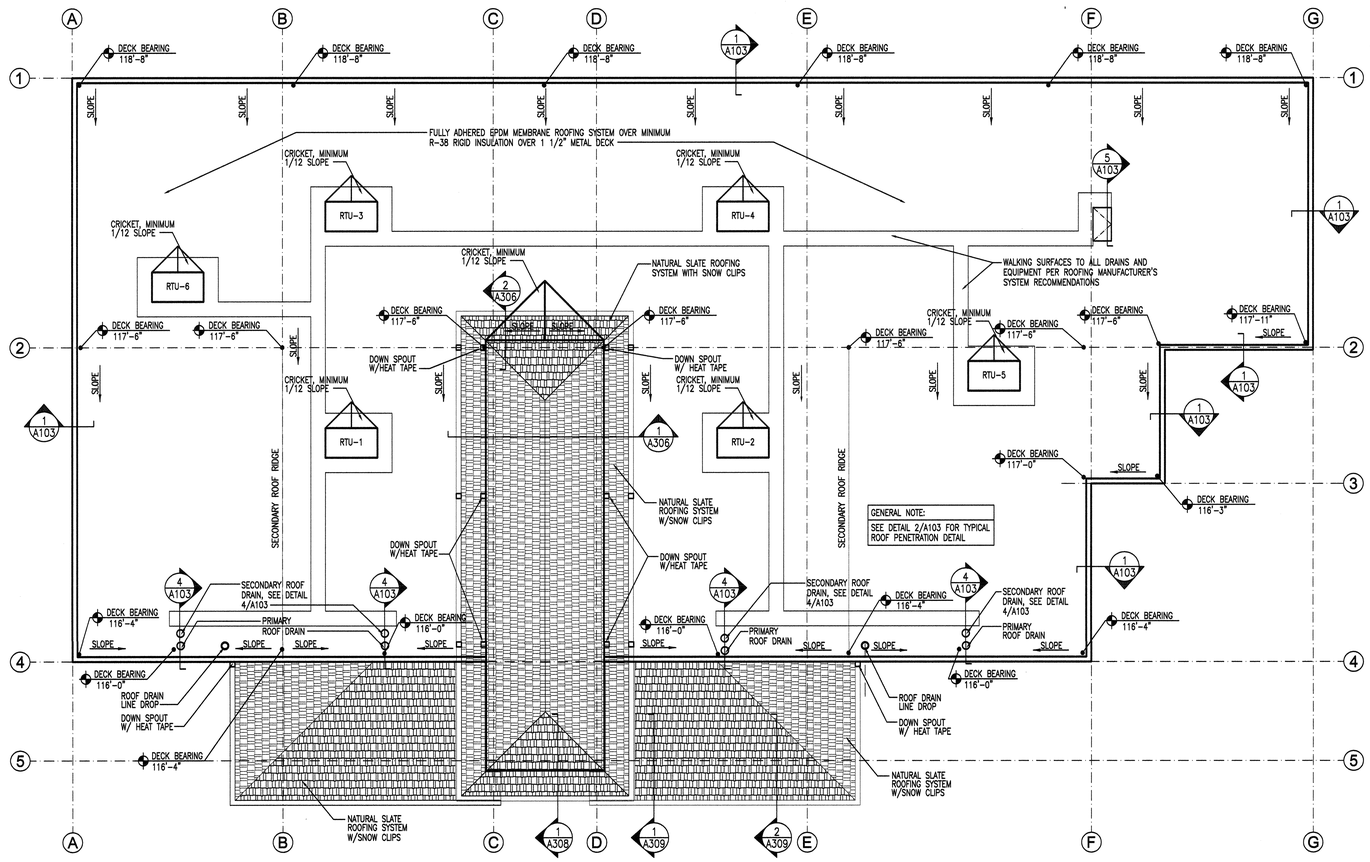
2 A103 VENT PIPE DETAIL
SCALE: NONE



1 A103 CAP FLASHING DETAIL
SCALE 1/2" = 1' - 0"



4 A103 ROOF DRAIN DETAIL
SCALE: NOT TO SCALE



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

NEW SPRINGVILLE LIQUOR STORE

DEPT. OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

ROOF PLAN, SECTIONS AND DETAILS

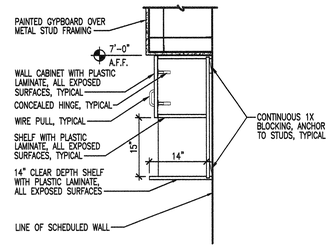
FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH
FRANK N. MURDOCK
124498
3/2/10
LICENSED ARCHITECT

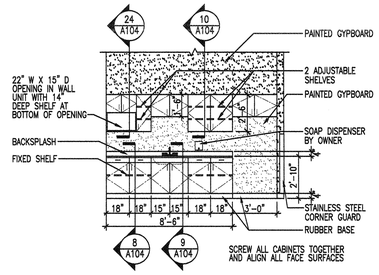
REVISION #	DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-A103
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

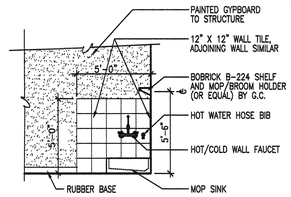
A 103



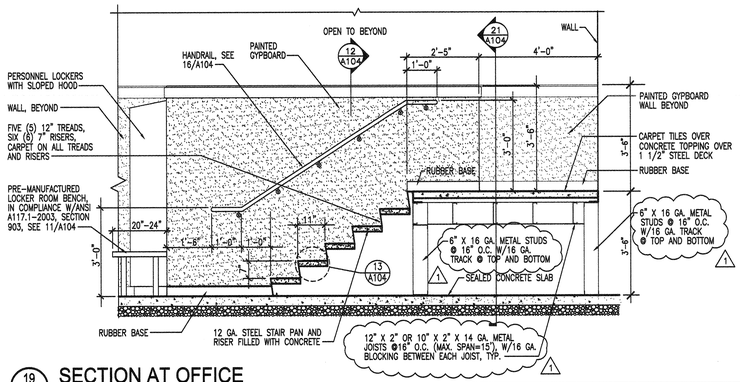
24 A104 UPPER CABINET SECTION
SCALE: NONE



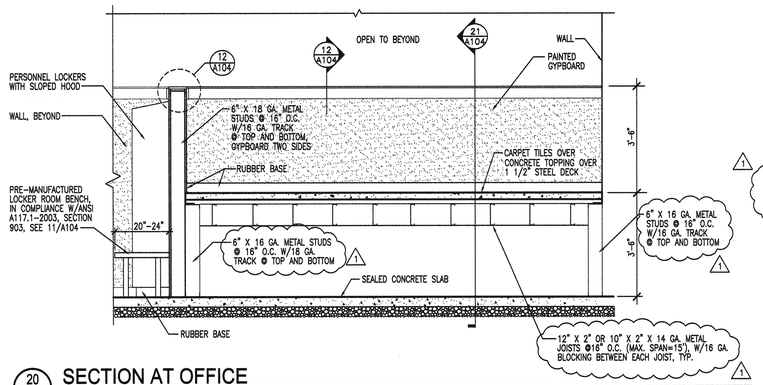
23 A104 ELEVATION AT LUNCH COUNTER
SCALE: 1/4" = 1'-0"



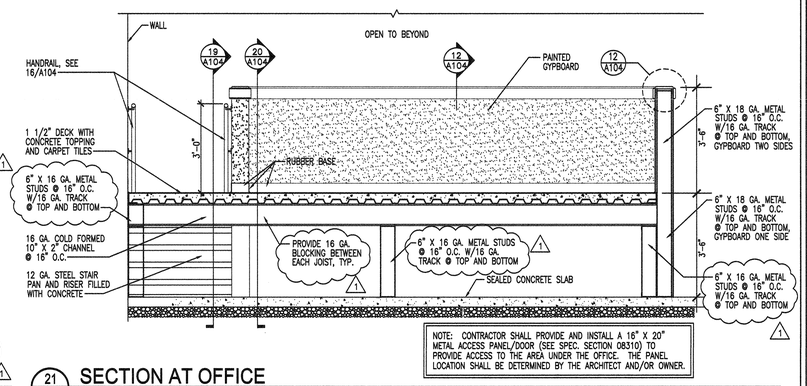
22 A104 ELEVATION AT JANITOR'S ROOM
SCALE: 1/4" = 1'-0"



19 A104 SECTION AT OFFICE
SCALE: 1/2" = 1'-0"



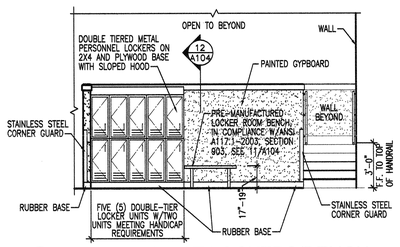
20 A104 SECTION AT OFFICE
SCALE: 1/2" = 1'-0"



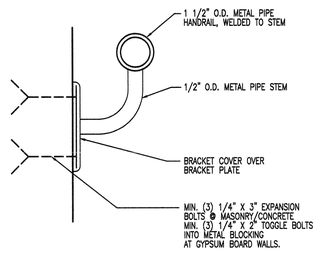
NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL A 16" X 20" METAL ACCESS PANEL/DOOR (SEE SPEC. SECTION 08310) TO PROVIDE ACCESS TO THE AREA UNDER THE OFFICE. THE PANEL LOCATION SHALL BE DETERMINED BY THE ARCHITECT AND/OR OWNER.

21 A104 SECTION AT OFFICE
SCALE: 1/2" = 1'-0"

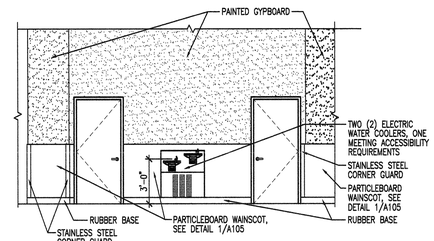
18 A101 NOT USED
SCALE: NOT TO SCALE



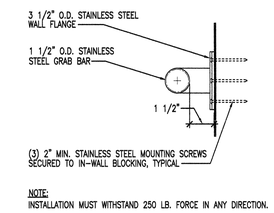
17 A101 ELEVATION AT LOCKERS/BENCH
SCALE: 1/4" = 1'-0"



16 A104 HANDRAIL MOUNTING DETAIL
SCALE: NONE

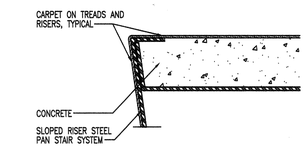


15 A104 ELEVATION AT WATER COOLERS
SCALE: 1/4" = 1'-0"

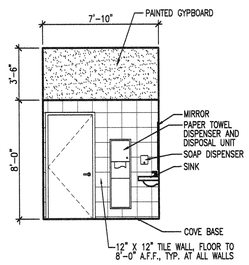


NOTE:
INSTALLATION MUST WITHSTAND 250 LB. FORCE IN ANY DIRECTION.

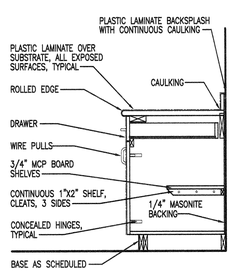
14 A104 GRAB BAR DETAIL
SCALE: NONE



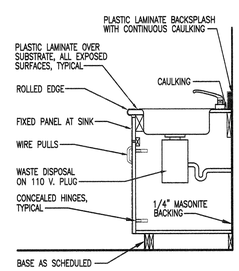
13 A104 OFFICE STAIR NOSING DETAIL
SCALE: NONE



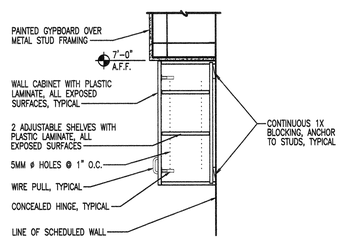
7 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



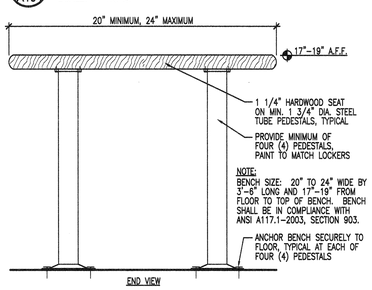
8 A104 BASE CABINET SECTION
SCALE: NONE



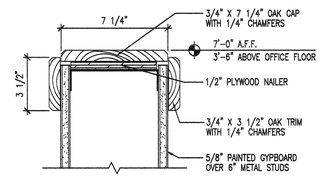
9 A104 SINK CABINET SECTION
SCALE: NONE



10 A104 UPPER CABINET SECTION
SCALE: NONE

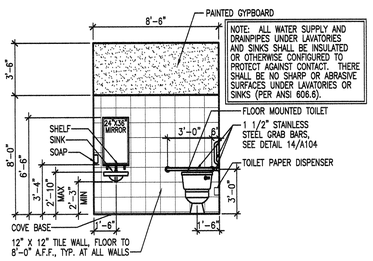


11 A104 BENCH AT LOCKER AREA
SCALE: NONE



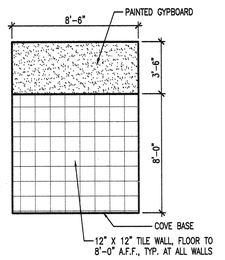
NOTE: ALL OAK TRIM TO RECEIVE TWO APPLICATIONS OF CLEAR SEALER.

12 A104 WALL CAP SECTION
SCALE: NONE

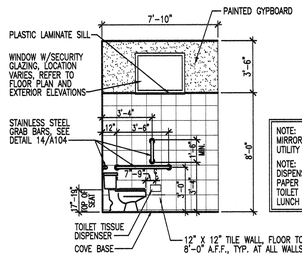


NOTE: ALL WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS (PER ANSI 606.6).

6 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



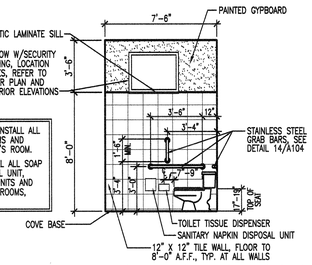
5 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"



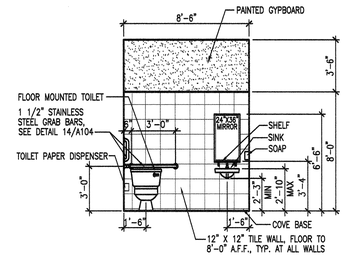
NOTE: CONTRACTOR TO PROVIDE AND INSTALL ALL MIRRORS AND GRAB BARS IN RESTROOMS AND UTILITY SHELF/MOP HOLDER IN JANITOR'S ROOM.

NOTE: OWNER TO PROVIDE AND INSTALL ALL SOAP DISPENSERS, SANITARY NAPKIN DISPOSAL UNIT, PAPER TOWEL DISPENSER AND WASTE UNITS AND TOILET PAPER DISPENSERS IN ALL RESTROOMS, LUNCH AREA AND JANITOR ROOM.

4 A104 ELEV. AT MEN'S RESTROOM
SCALE: 1/4" = 1'-0"

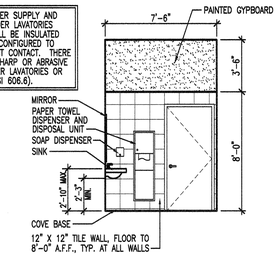


3 A104 ELEV. AT WOMEN'S RESTROOM
SCALE: 1/4" = 1'-0"



NOTE: ALL WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS (PER ANSI 606.6).

2 A104 ELEV. AT WOMEN'S RESTROOM
SCALE: 1/4" = 1'-0"



1 A104 ELEV. AT WOMEN'S RESTROOM
SCALE: 1/4" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

INTERIOR ELEVATIONS AND MISCELLANEOUS INTERIOR DETAILS

STATE OF UTAH
FRANK N. MURDOCK
124488
LICENSED ARCHITECT

REVISION # DATE:
1 4/29/10

DFCM PROJECT NO.:
08226030
CONSTR. DOC.
FILE NAME: ABCSV-A104
PLOT SCALE: 1:48
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

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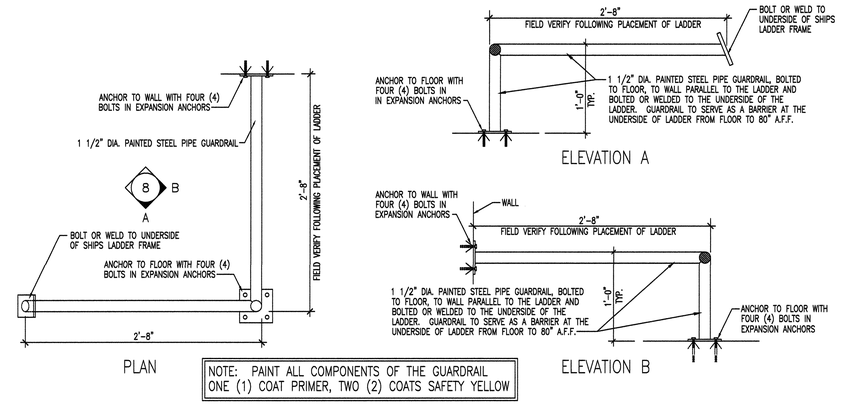
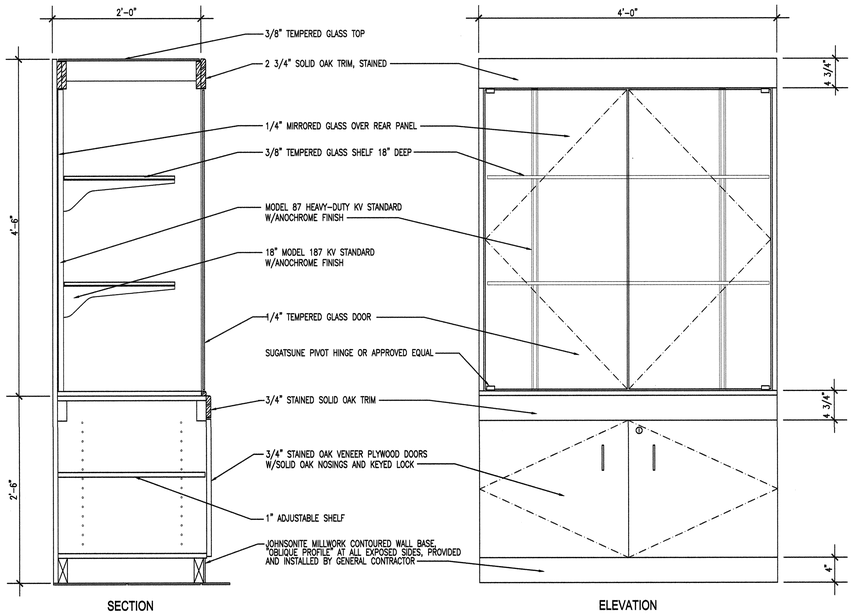
104



NOTE: PAINT ALL COMPONENTS OF THE GUARDRAIL ONE (1) COAT PRIMER, TWO (2) COATS SAFETY YELLOW

8 / A105 PLAN AND DETAILS AT SHIPS LADDER GUARDRAIL

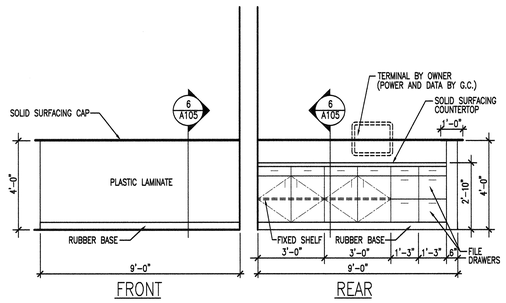
SCALE: NONE



DISPLAY CASES PROVIDED AND INSTALLED BY OWNER. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BASE UNIT WITH SEISMIC BRACING (SEE DETAIL 2/A105 AND APPENDIX B OF THE SPECIFICATIONS) PRIOR TO INSTALLATION OF DISPLAY CASES AND SHALL PROVIDE AND INSTALL JOHNSONITE CONTOURED WALL BASE ON ALL EXPOSED SIDES FOLLOWING INSTALLATION OF DISPLAY CASES. THE GENERAL CONTRACTOR SHALL VERIFY QUANTITIES AND BASE UNIT DIMENSIONS WITH THE OWNER REPRESENTATIVE.

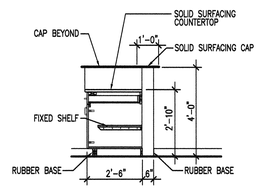
4 / A105 DISPLAY CASE ELEVATION AND SECTION

SCALE: NONE



5 / A105 ELEVATIONS AT CHECK-OUT COUNTER

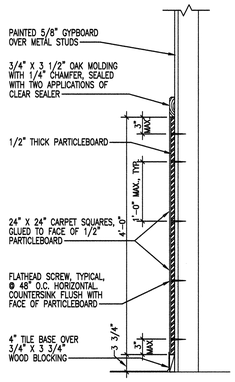
SCALE: NONE



OWNER TO PROVIDE AND INSTALL CHECK-OUT (WILL-CALL) COUNTER. CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL, DATA AND RUBBER BASE.

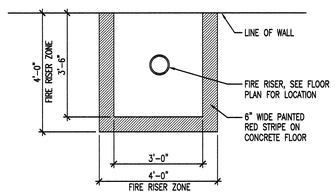
6 / A105 SECTION AT CHECK-OUT COUNTER

SCALE: NONE



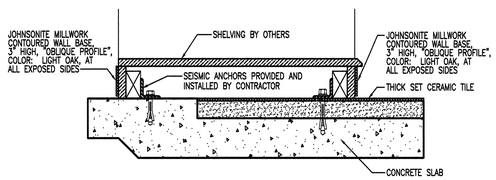
7 / A105 WAINSCOT SECT. AT CART & BOX STORAGE

SCALE: NOT TO SCALE



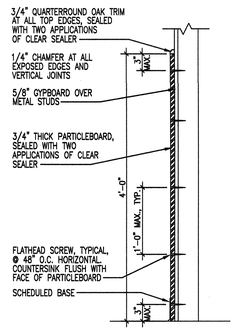
3 / A105 FIRE RISER PAINT OUTLINE DETAIL

SCALE: NONE



2 / A105 SECTION AT WOOD SHELVING BASE

SCALE: NONE



1 / A105 SECTION AT PARTICLEBOARD WAINSCOT

SCALE: NOT TO SCALE

NEW SPRINGVILLE LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

INTERIOR ELEVATIONS AND MISCELLANEOUS DETAILS

STATE OF UTAH — FRANK N. MURDOCK — 144198 — LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONSTR. DOC.
FILE NAME: ABCSV-A105
PLOT SCALE: 1:48
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A 105

WALL TYPE

1

BRACE TO ROOF DECK @ 4' O.C.

3 5/8" STUD INTERIOR PARTITION WALL:
PAINTED 5/8" GYPBOARD BOTH SIDES OF 3 5/8" METAL STUDS @ 16" ON CENTER, FROM FLOOR TO ROOF DECK OR TO 6" ABOVE CEILING WHERE CEILING OCCURS. PROVIDE DIAGONAL BRACING TO ROOF DECK @ 4' O.C. WHERE CEILING OCCURS. GYPBOARD @ WALL TO STOP @ GYPBOARD CEILING WHERE OCCURS. PROVIDE TILE WALLS AS SHOWN ON INTERIOR ELEVATIONS. INSTALL WATER-RESISTANT GYPBOARD @ ALL TOILET ROOMS. PROVIDE PROTECTIVE PARTICLE BOARD WAINSCOT AS SHOWN ON FLOOR PLANS, REFER TO DETAIL 1/A106.

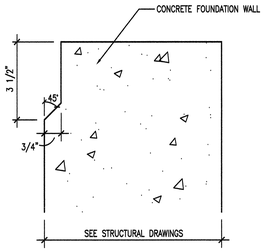
WALL LEGEND

REINFORCED CMU

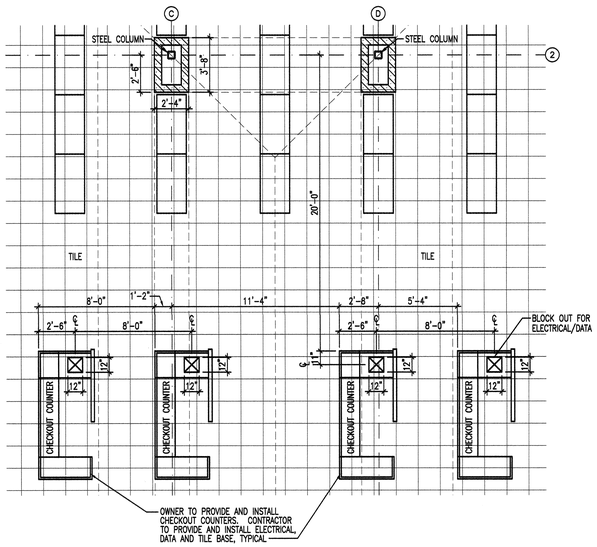
PAINTED GYPBOARD OVER METAL STUDS

NOTES

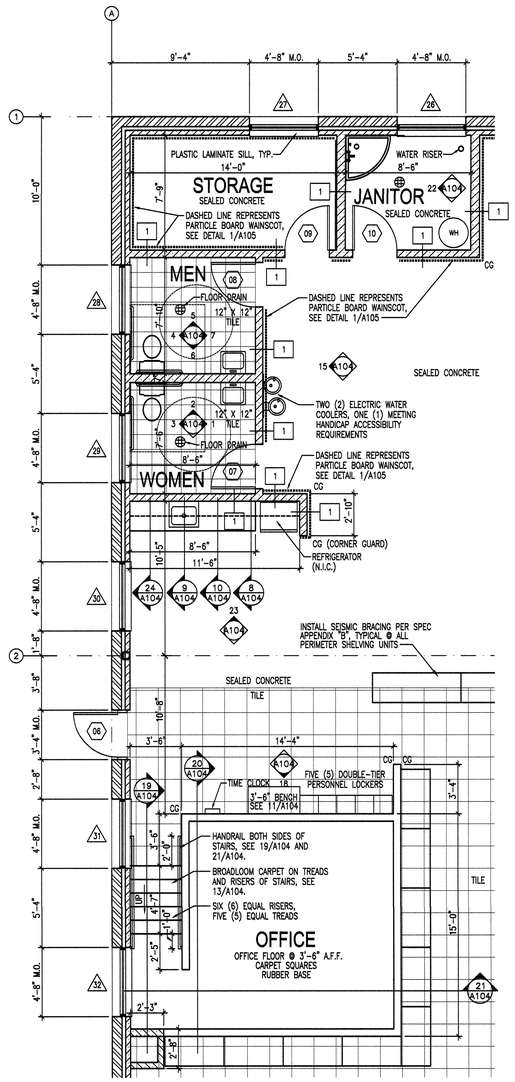
1. PROVIDE SIGNAGE ABOVE ENTRY DOORS STATING "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS".
2. PROVIDE SIGNAGE DESIGNATING "PUBLIC RESTROOMS" AT LOCATION TO BE DETERMINED BY ARCHITECT.
3. CONTRACTOR SHALL PROVIDE AND INSTALL FOUR (4) FIRE EXTINGUISHERS (SEE SPECIFICATIONS FOR TYPE) IN LOCATIONS TO BE DETERMINED BY ARCHITECT.



4 A106 CONCRETE REVEAL
SCALE: NOT TO SCALE

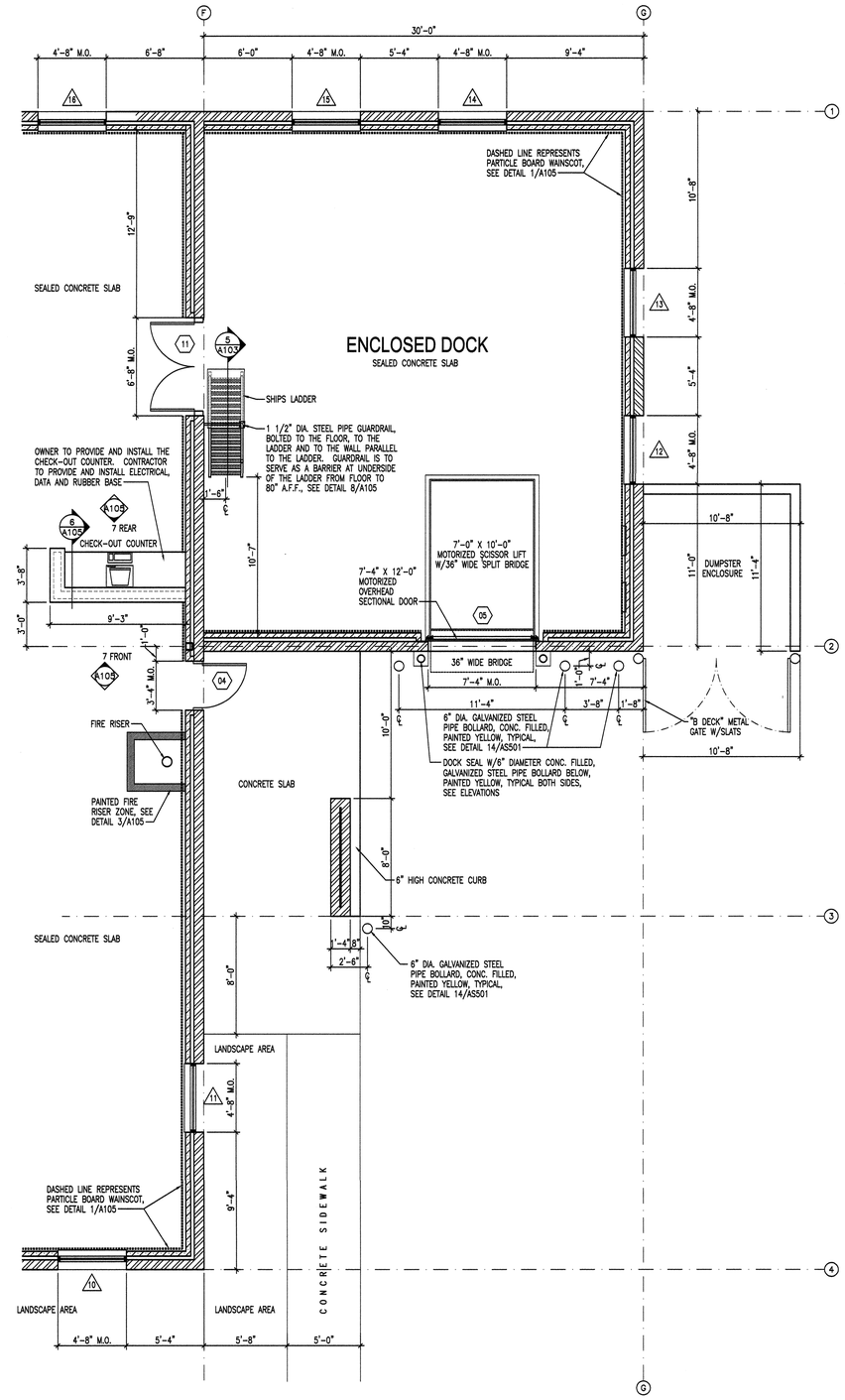


6 A106 ENLARGED FLOOR PLAN AT CHECKOUT
SCALE: 1/4" = 1'-0"



NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL A 16" X 20" METAL ACCESS PANEL/DOOR (SEE SPEC SECTION 08310) TO PROVIDE ACCESS TO THE AREA UNDER THE OFFICE. THE PANEL LOCATION SHALL BE DETERMINED BY THE ARCHITECT AND/OR OWNER.

2 A106 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 A106 ENLARGED FLOOR PLAN AT DOCK
SCALE: 1/4" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
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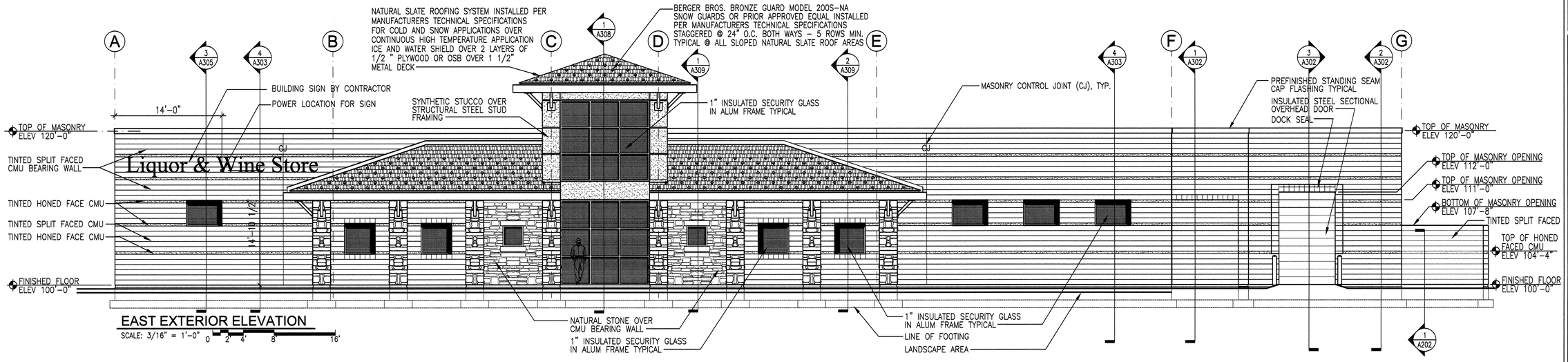
ENLARGED FLOOR PLANS

STATE OF UTAH
FRANK N. MURDOCK
94498
LICENSED ARCHITECT

REVISION # DATE:

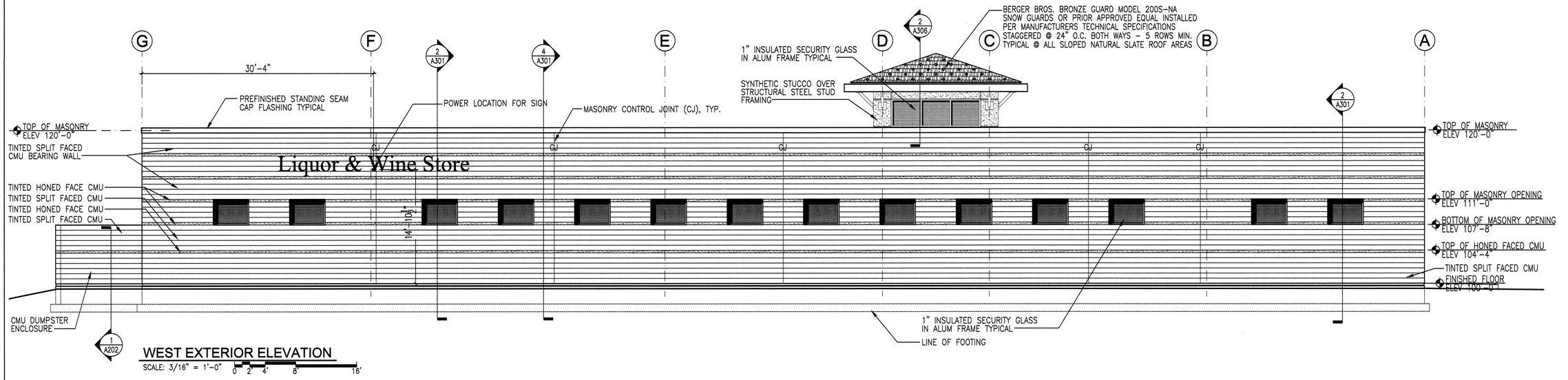
DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-A106
PLOT SCALE: 1:96
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A
106



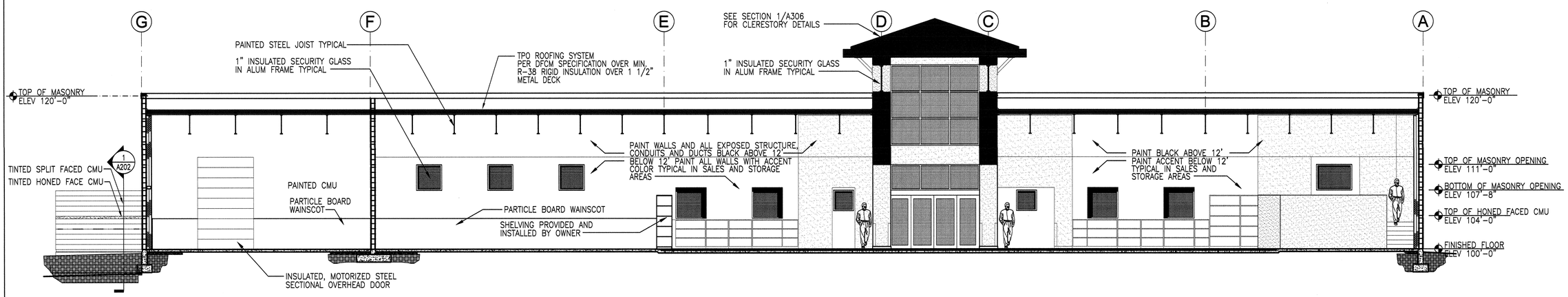
EAST EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



WEST EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



NORTH-SOUTH BUILDING SECTION

SCALE: 3/16" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

EXTERIOR ELEVATIONS AND BUILDING SECTION

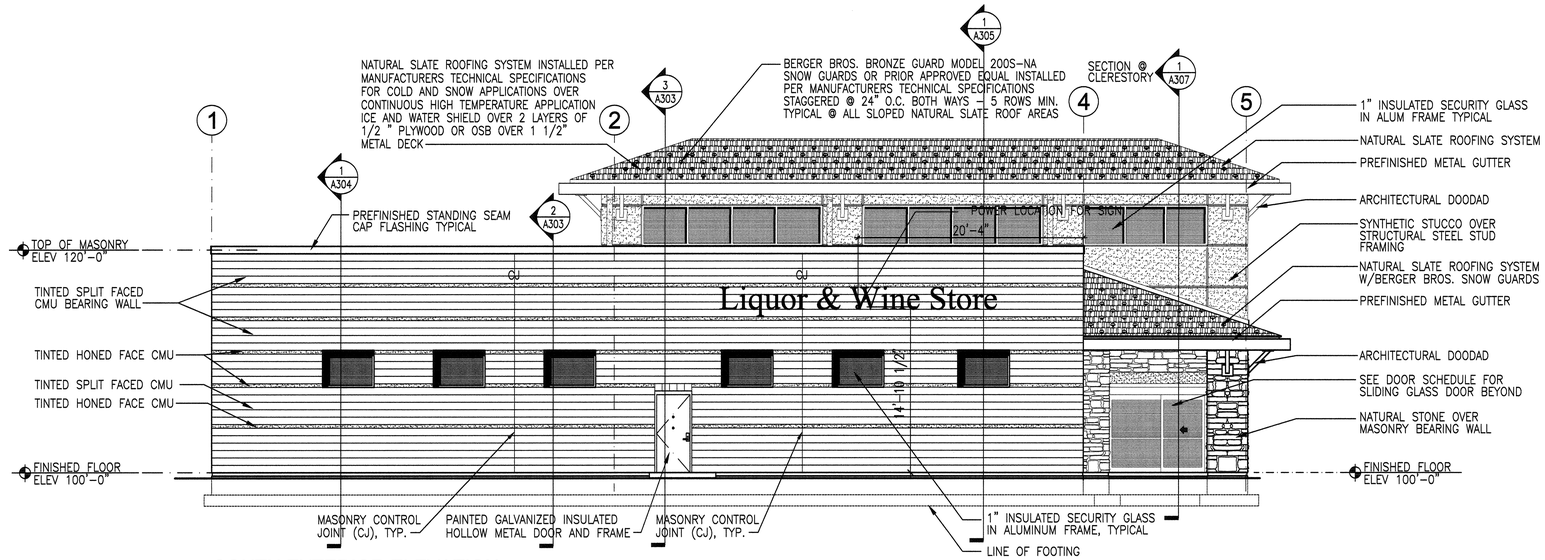
FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH FRANK N. MURDOCK 124498 3/22/10 LICENSED ARCHITECT

REVISION #	DATE:

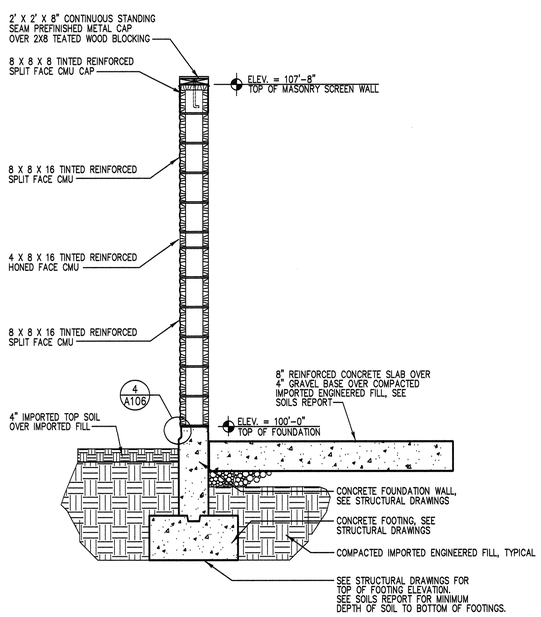
DFCM PROJECT NO.:
08226030
CONSTR. DOC.
FILE NAME: ABCSV-A201
PLOT SCALE: 3/16"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A
201



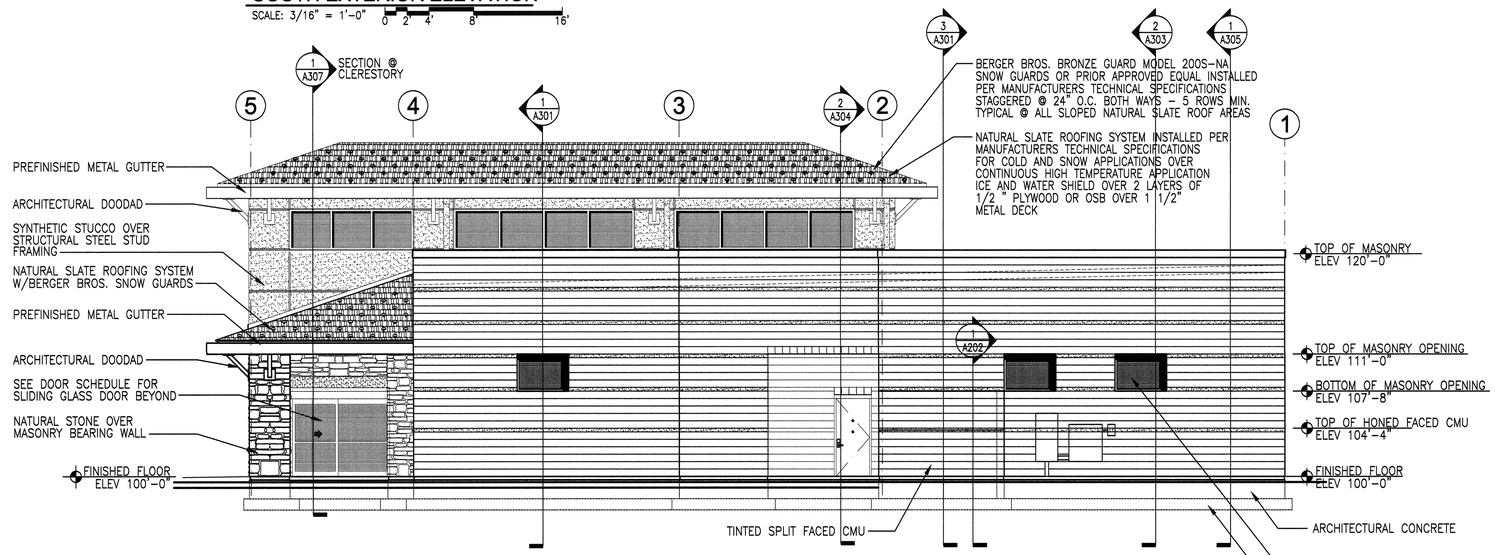
SOUTH EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0" 0 2' 4' 8' 16'



WALL SECTION AT DUMPSTER ENCLOSURE

SCALE: 3/4" = 1'-0" 0 1' 2'



NORTH EXTERIOR ELEVATION

SCALE: 3/16" = 1'-0" 0 2' 4' 8' 16'

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

EXTERIOR ELEVATIONS AND WALL SECTION

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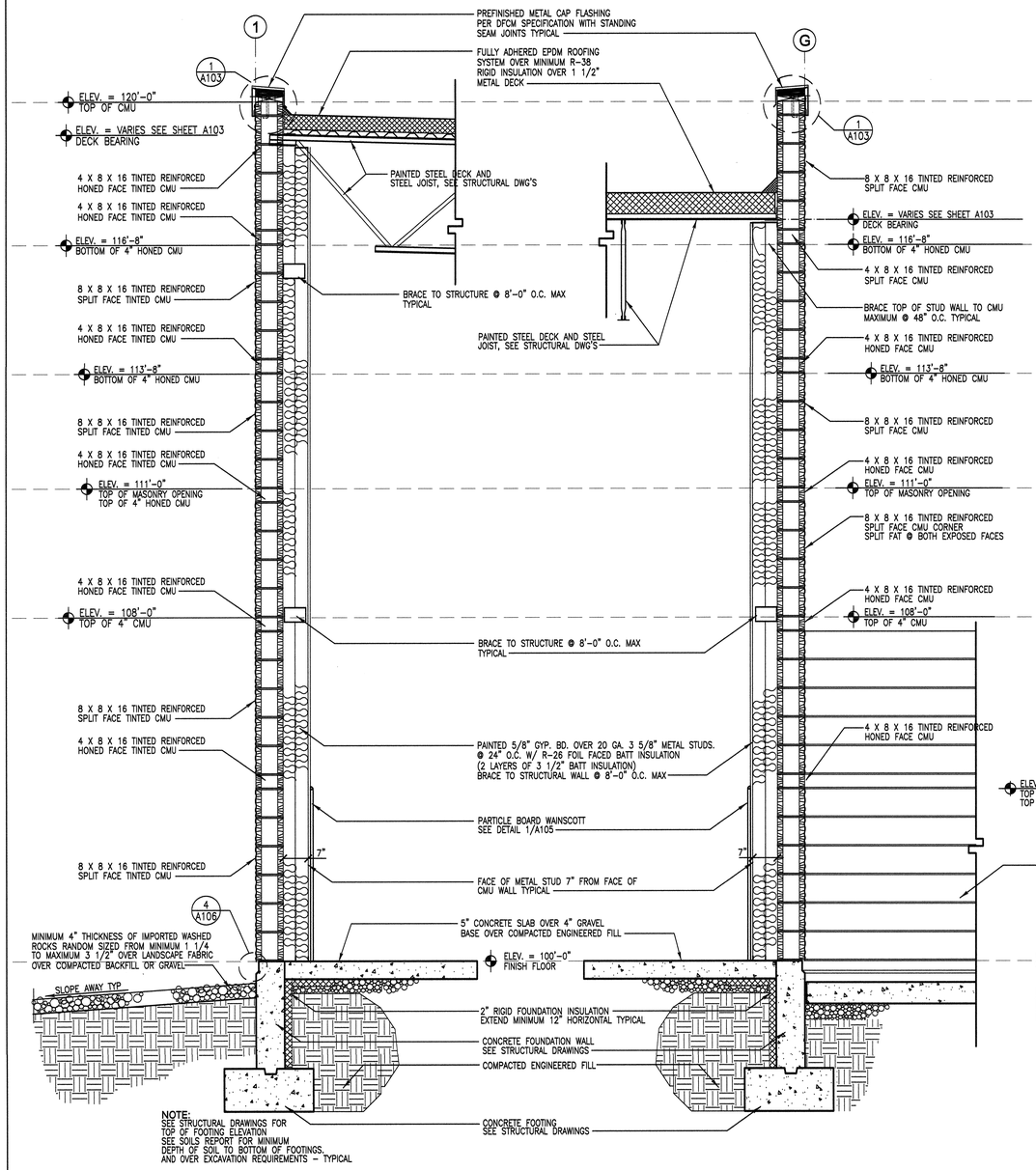
STATE OF UTAH
FRANK N. MURDOCK
224398
3/22/10
LICENSED ARCHITECT

REVISION # DATE:

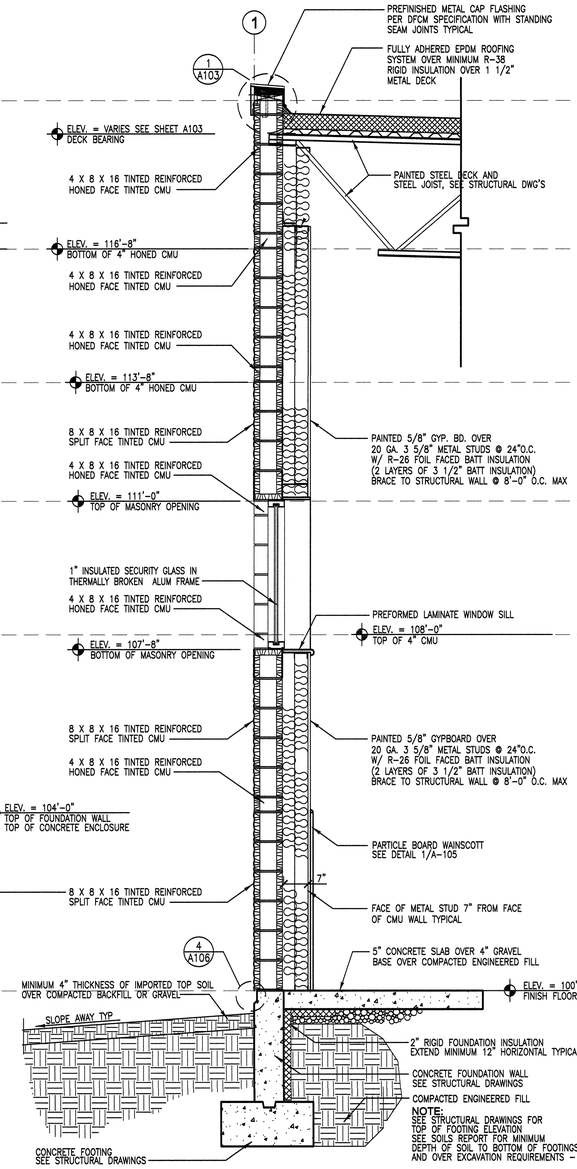
DFCM PROJECT NO.:
08226030
CONSTR. DOC.
FILE NAME: ABCSV-A202
PLOT SCALE: 3/16"
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A
202

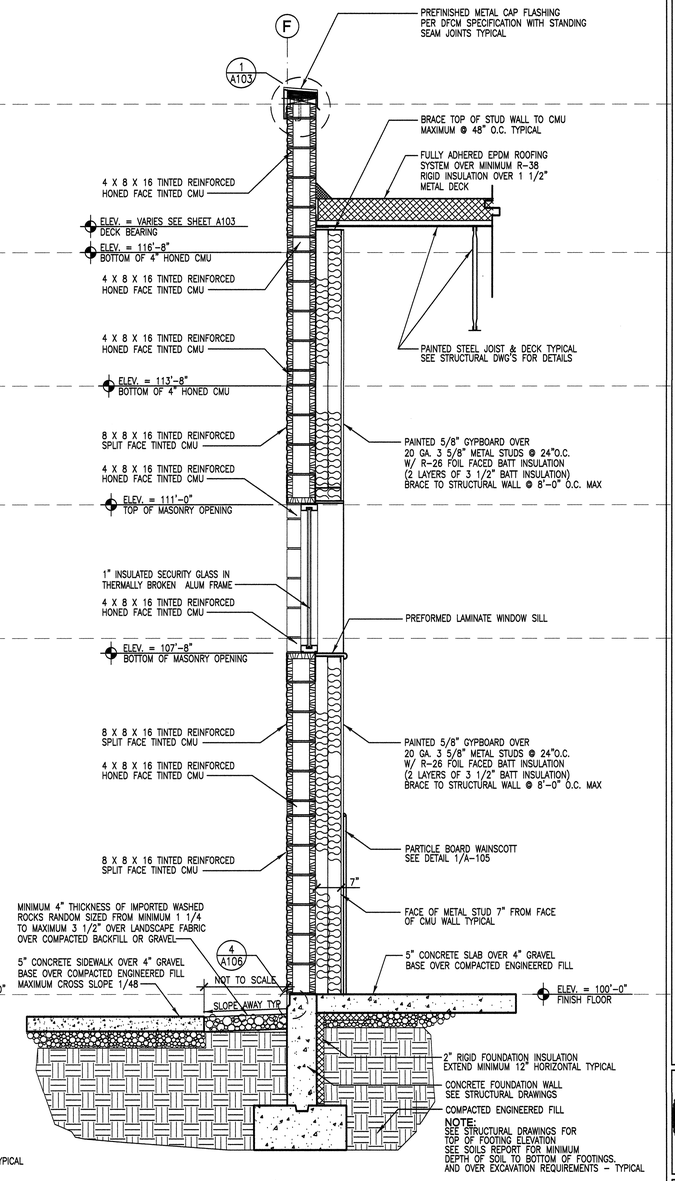


4 A301 WALL SECTION @ GRID "1"
SCALE: 3/4" = 1'-0"

3 A301 WALL SECTION @ GRID "G"
SCALE: 3/4" = 1'-0"



2 A301 WALL SECTION @ GRID "1"
SCALE: 3/4" = 1'-0"



1 A301 WALL SECTION @ GRID "F"
SCALE: 3/4" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

WALL SECTIONS

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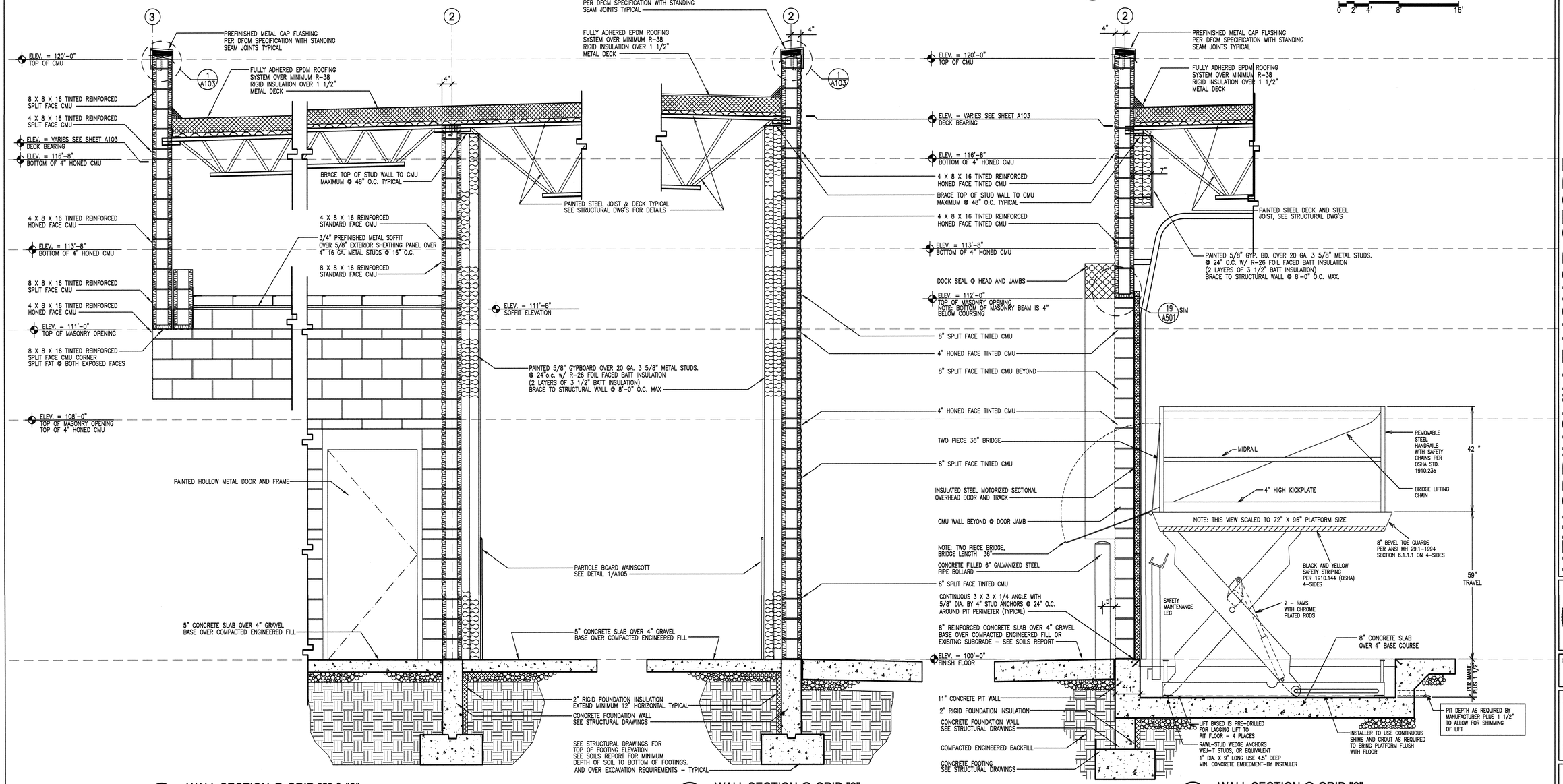
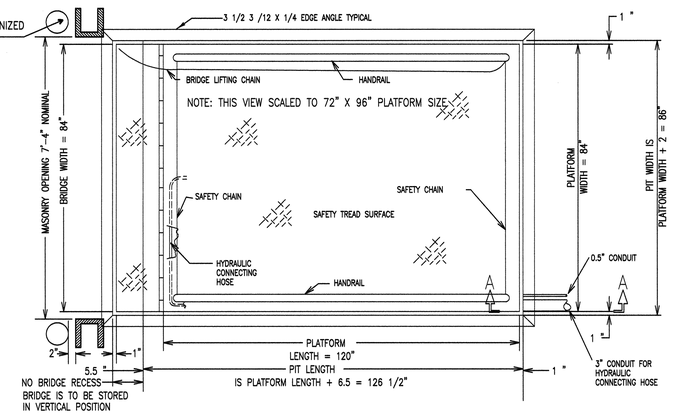
STATE OF UTAH FRANK N. MURDOCK 124498 5 LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-A301
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A 301





5 A301 SCISSOR LIFT PLAN

SCALE: 3/4" = 1'-0" NOTE: PLATFORM IS NOT TO SCALE. THIS VIEW SCALED TO 72" X 96" PLATFORM SIZE

NEW SPRINGVILLE LIQUOR STORE

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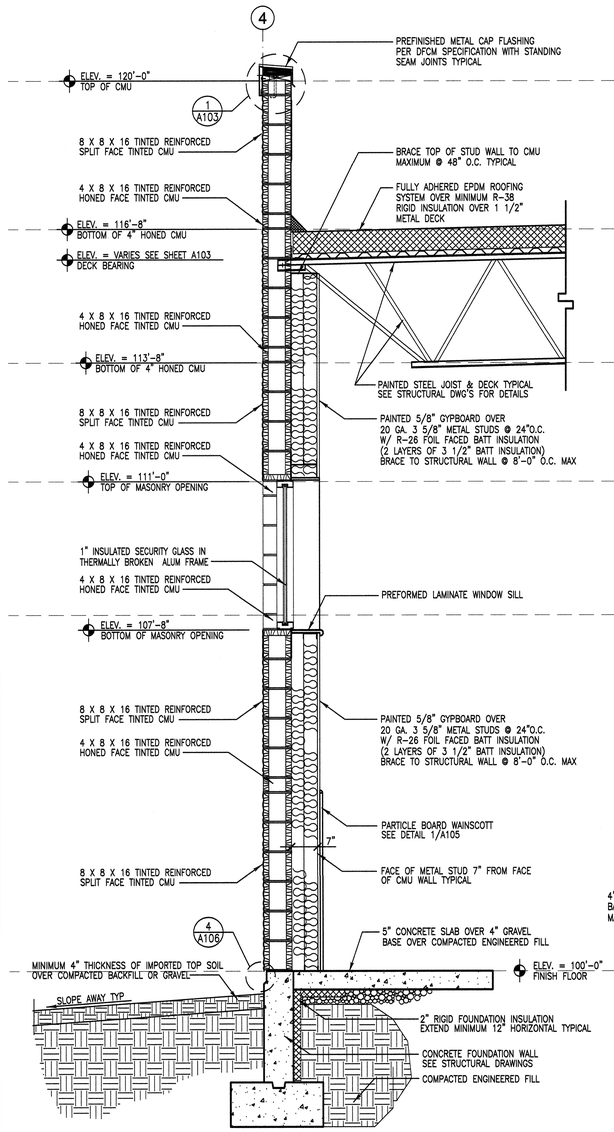
WALL SECTIONS

STATE OF UTAH FRANK N. MURDOCK 124488 5 3/12/10 REGISTERED ARCHITECT

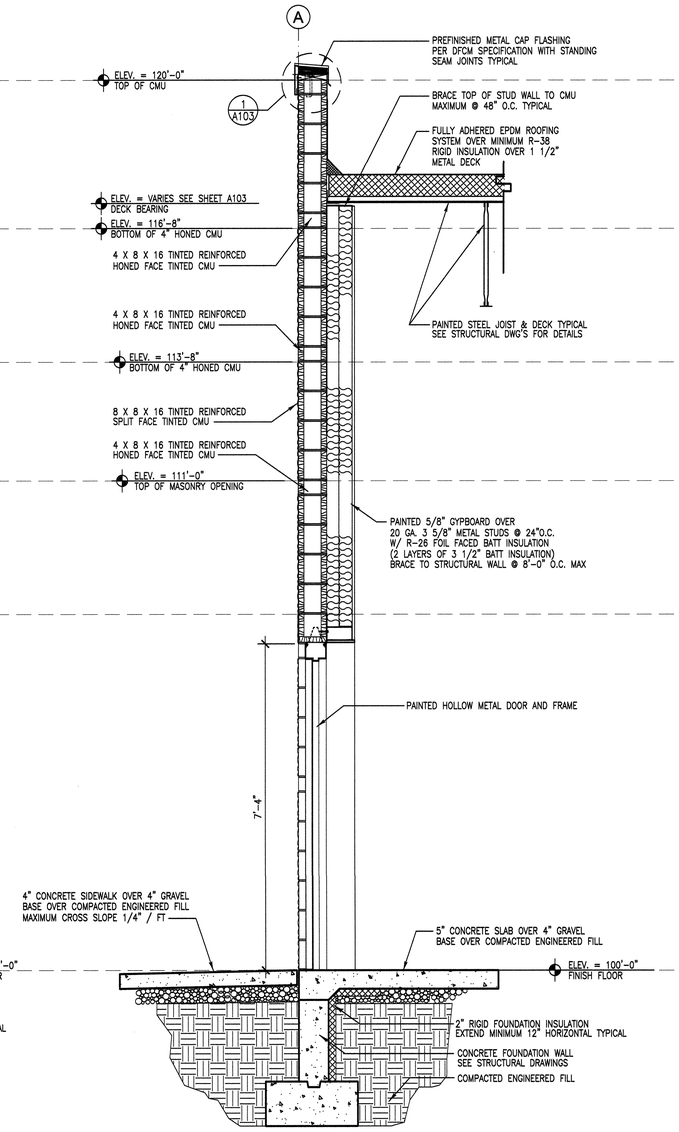
REVISION #	DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-A302
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

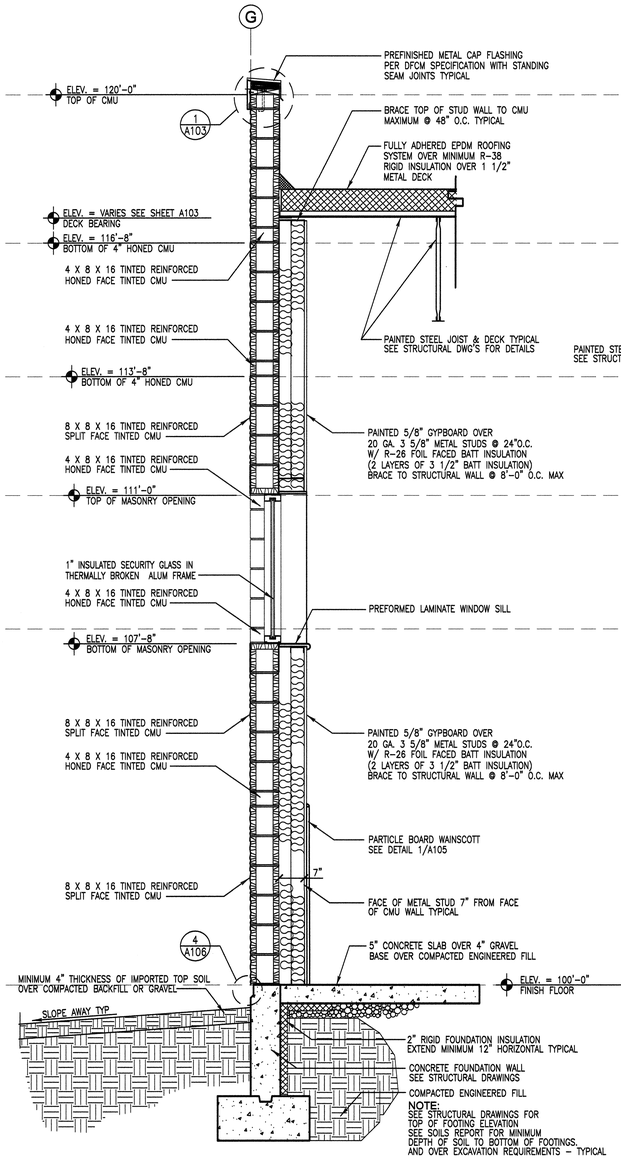
A 302



4 A303 WALL SECTION @ GRID "4"
SCALE: 3/4" = 1'-0"

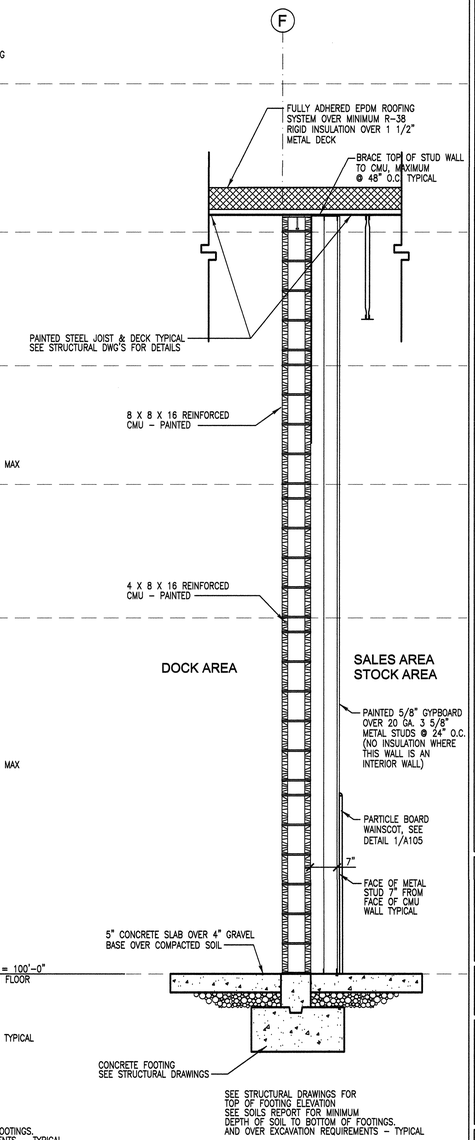


A A303 WALL SECTION @ GRID "G"
SCALE: 3/4" = 1'-0"



NOTE:
SEE STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATION
SEE SOILS REPORT FOR MINIMUM DEPTH OF SOIL TO BOTTOM OF FOOTINGS, AND OVER EXCAVATION REQUIREMENTS – TYPICAL

2 A303 WALL SECTION @ GRID "G"
SCALE: 3/4" = 1'-0"



SEE STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATION
SEE SOILS REPORT FOR MINIMUM DEPTH OF SOIL TO BOTTOM OF FOOTINGS, AND OVER EXCAVATION REQUIREMENTS – TYPICAL

1 A303 WALL SECTION @ GRID "F"
SCALE: 3/4" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

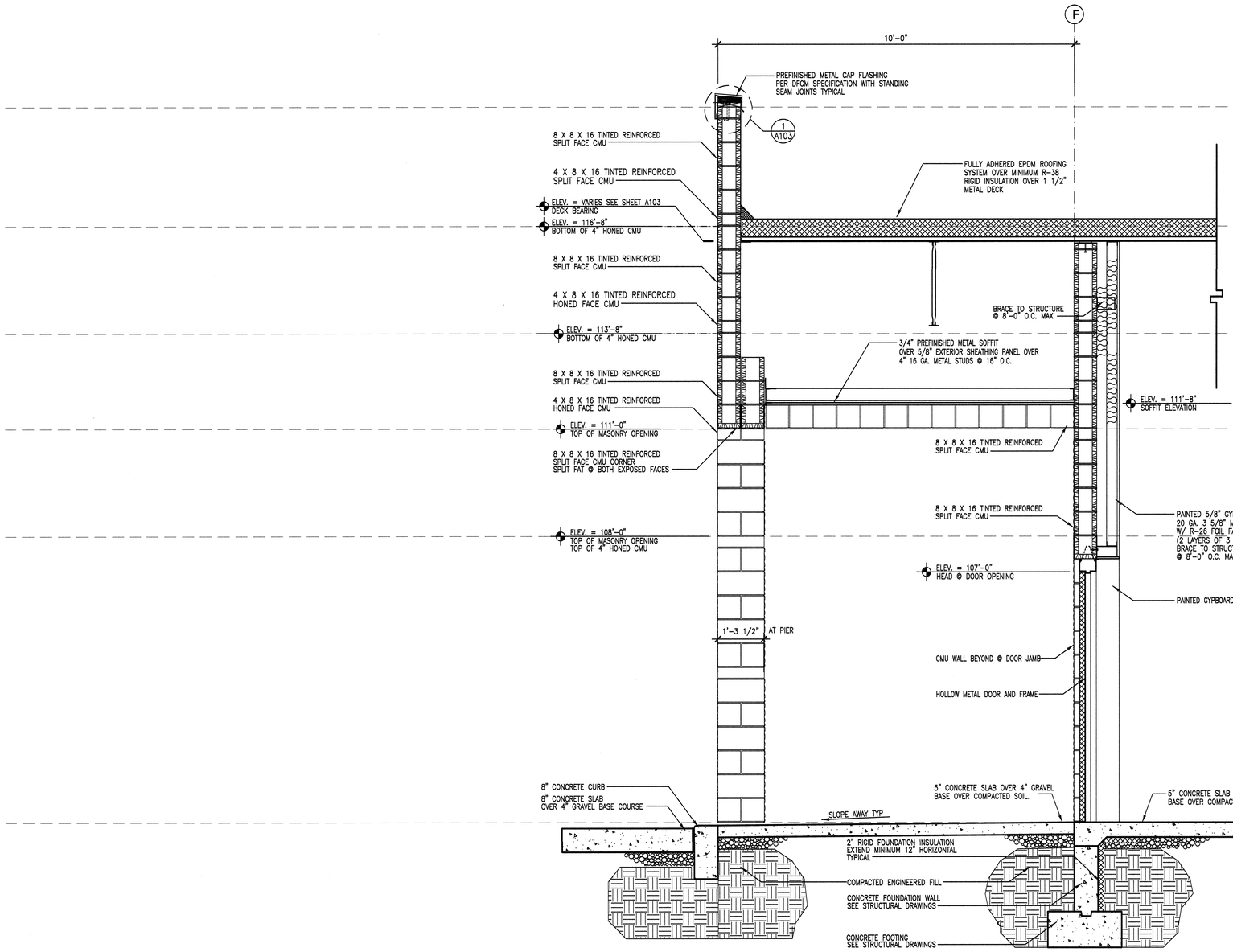
WALL SECTIONS

STATE OF UTAH FRANK N. MURDOCK 294398 LICENSED ARCHITECT 3/22/10

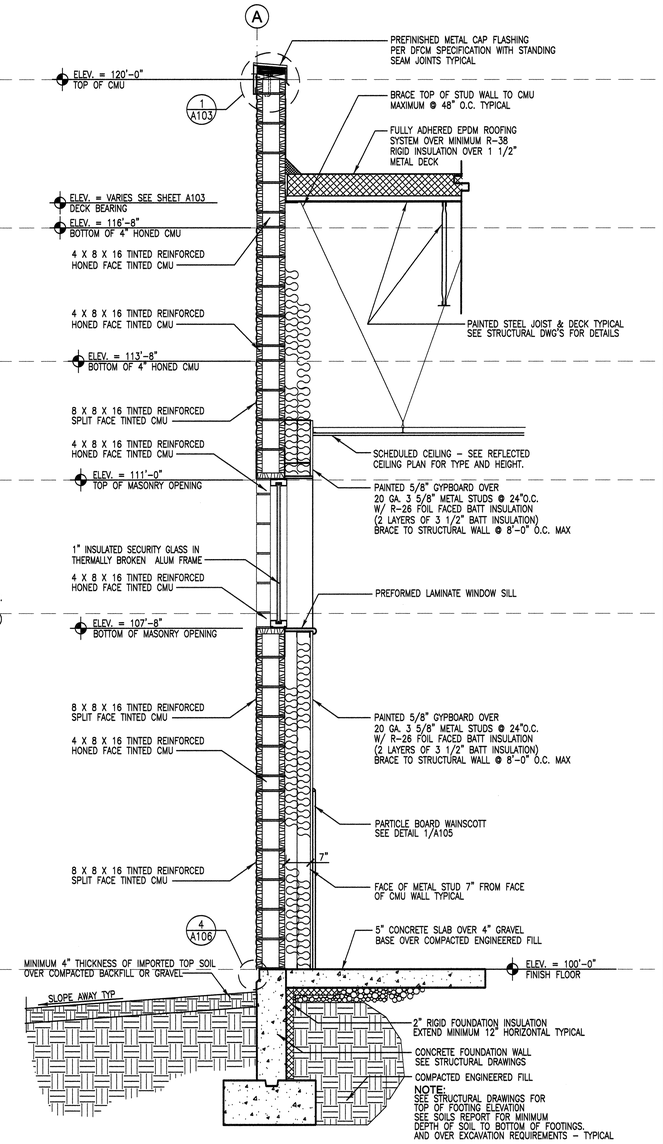
REVISION #	DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-A303
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A 303



2 A304 WALL SECTION @ GRID "F"
SCALE: 3/4" = 1'-0"



1 A304 WALL SECTION @ GRID "A"
SCALE: 3/4" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

WALL SECTIONS

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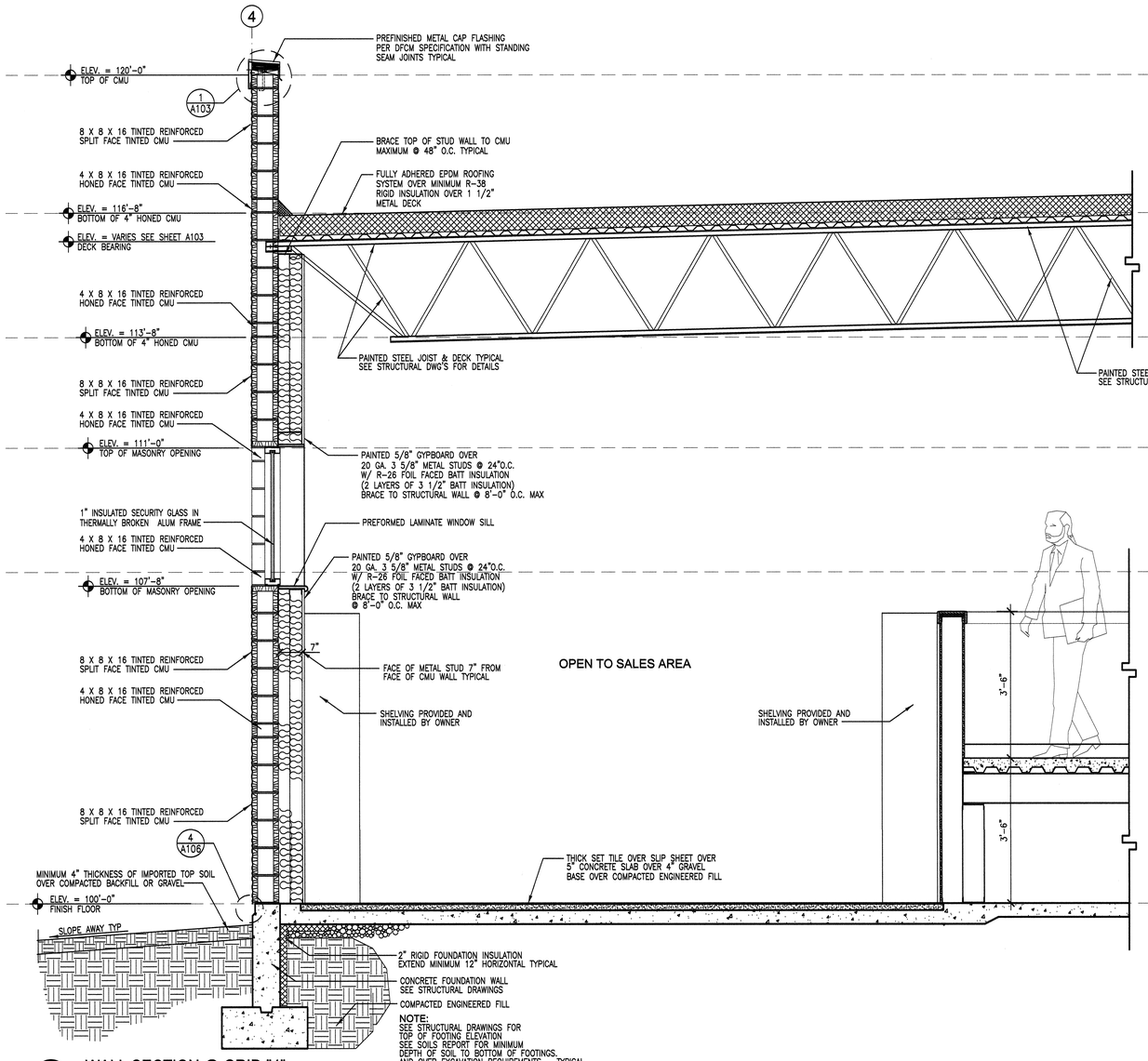
STATE OF UTAH
FRANK N. MURDOCK
24498
LICENSED ARCHITECT

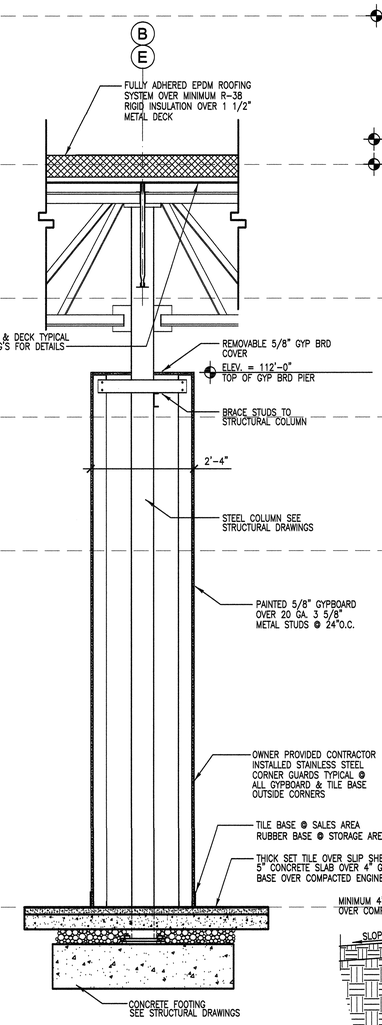
REVISION #	DATE:

DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-A304
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

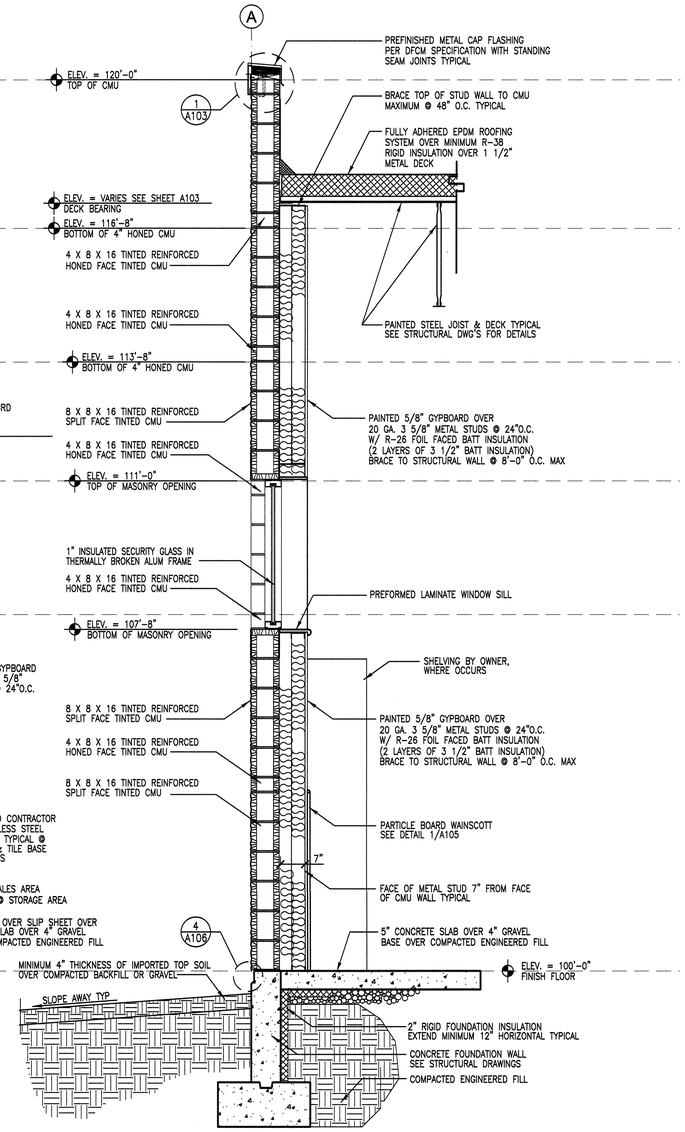
A
304



3 A305 WALL SECTION @ GRID "4"
SCALE: 3/4" = 1'-0"
0 1' 2'



2 A305 WALL SECTION @ GYP BRD PIERS
SCALE: 3/4" = 1'-0"
0 1' 2'



1 A305 WALL SECTION @ GRIDS "A"
SCALE: 3/4" = 1'-0"
0 1' 2'

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

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WALL SECTIONS

STATE OF UTAH
FRANK N. MURDOCK
124498
LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-A305
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

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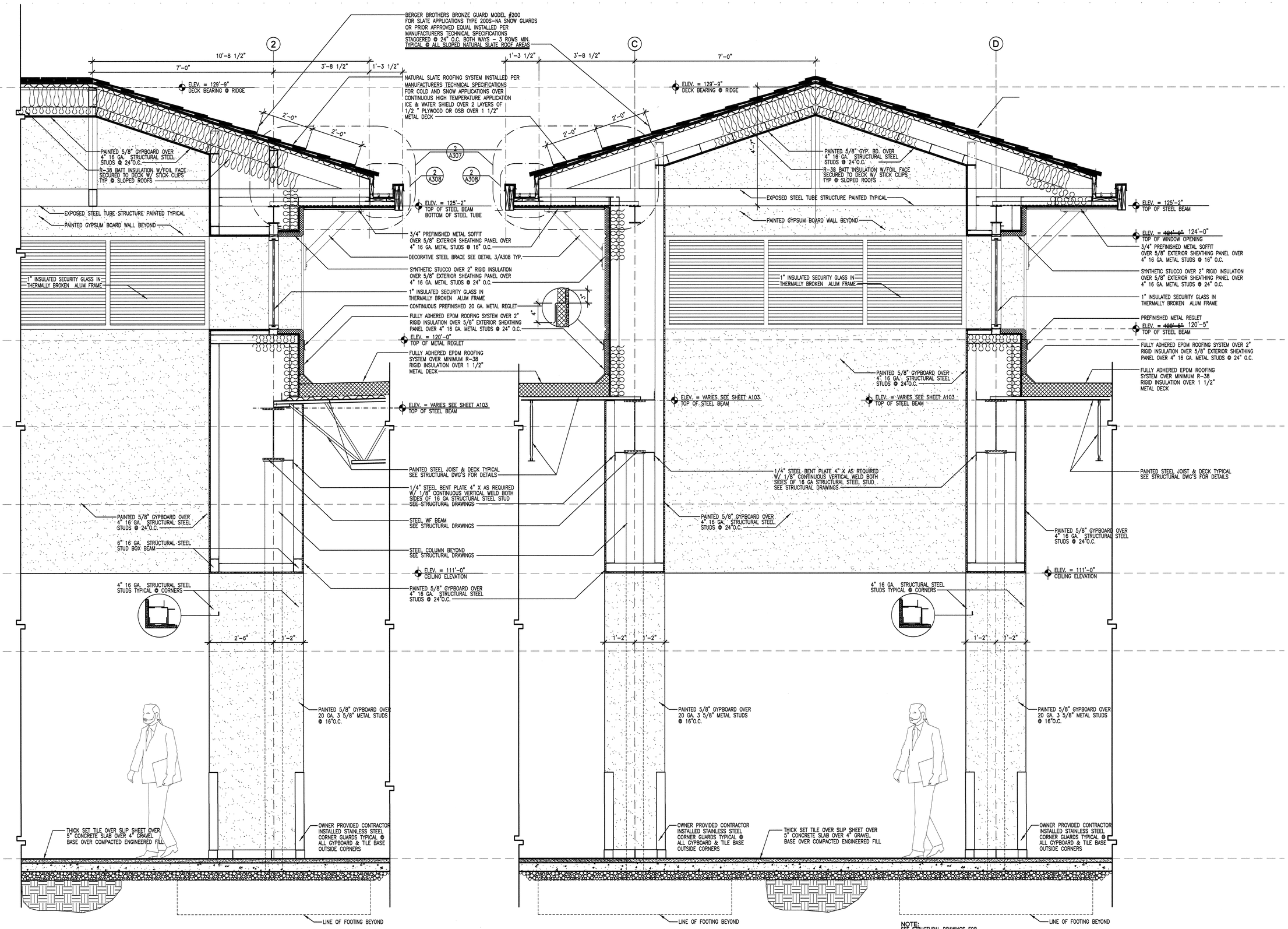
305



NOTE:
SEE STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATION
SEE SOILS REPORT FOR MINIMUM DEPTH OF SOIL TO BOTTOM OF FOOTINGS, AND OVER EXCAVATION REQUIREMENTS - TYPICAL

2 A306 WALL SECTION @ GRID "2"
SCALE: 3/4" = 1'-0"

1 A306 WALL SECTION @ GRIDS "D" & "E"
SCALE: 3/4" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220

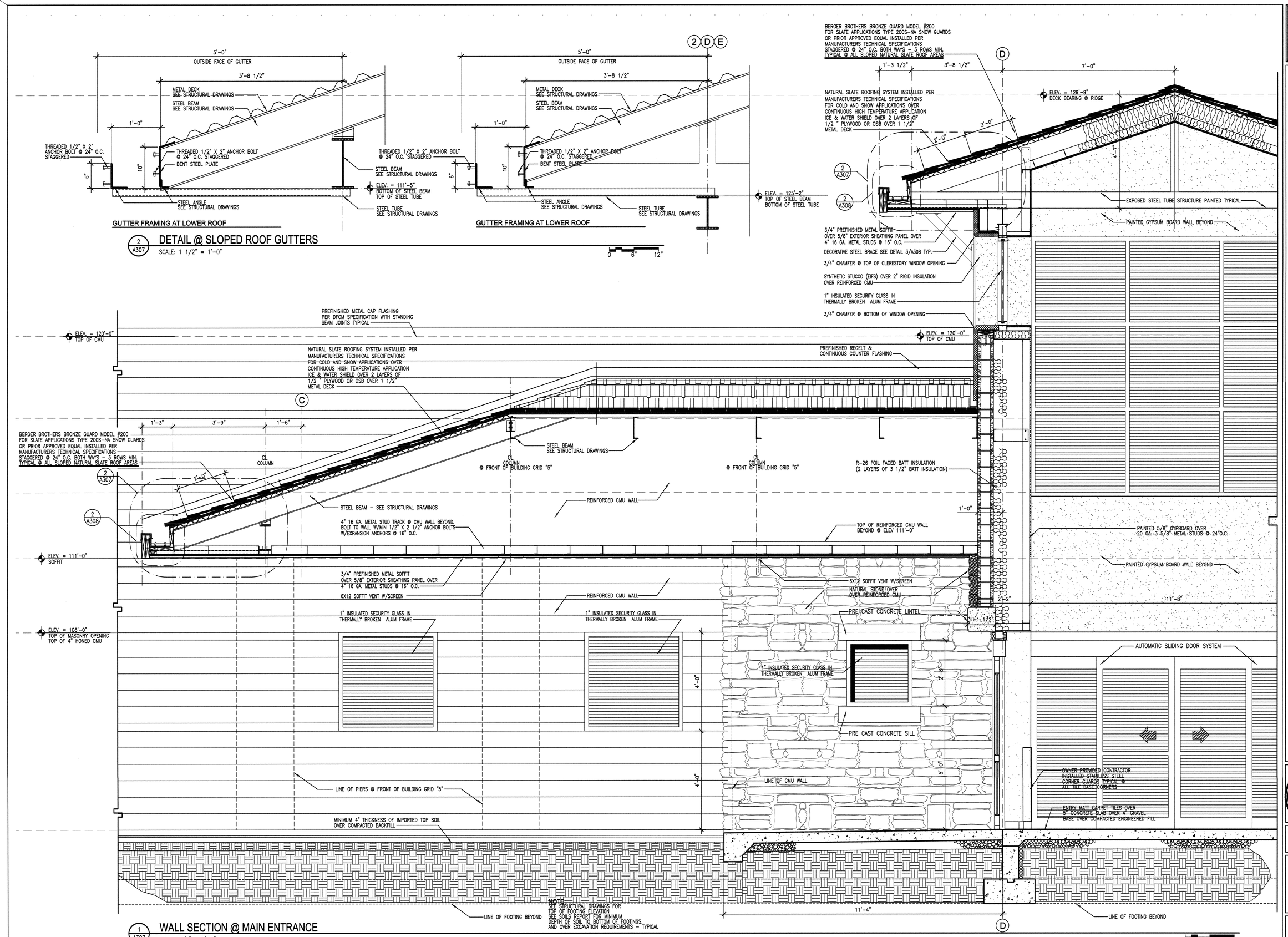
WALL SECTIONS

STATE OF UTAH
FRANK N. MURDOCK
194494-1
LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-A306
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A
306



NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
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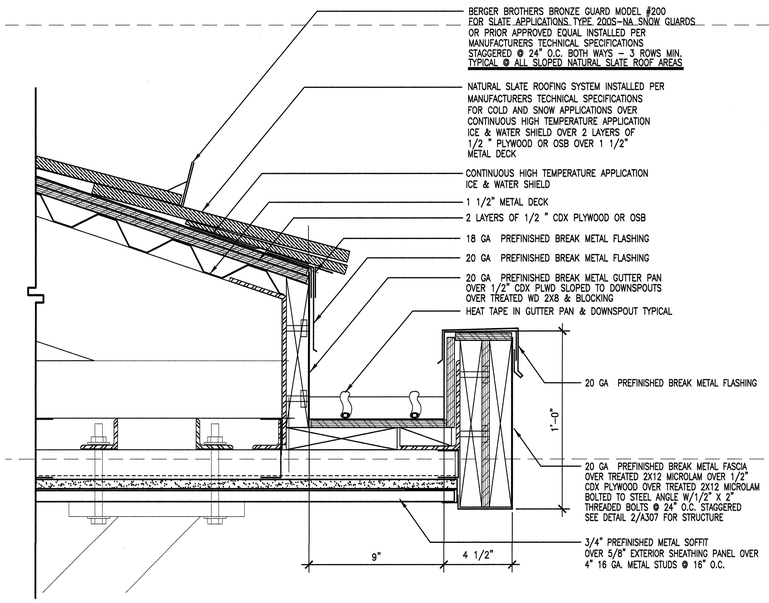
WALL SECTIONS

STATE OF UTAH
FRANK N. MURDOCK JR.
#4493
3/22/10
LICENSED ARCHITECT

REVISION # DATE:

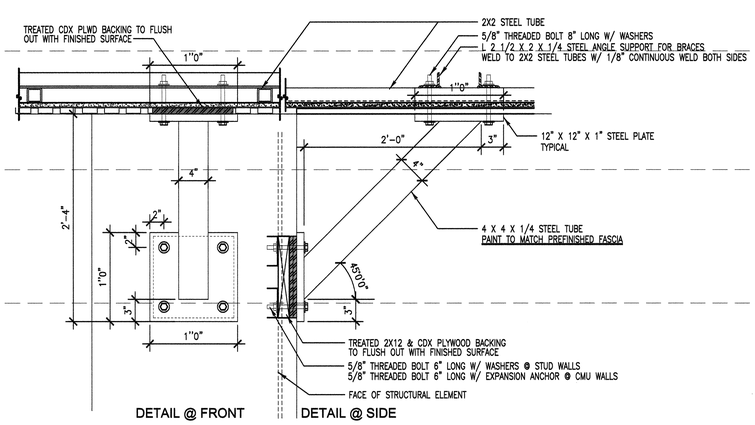
DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-A307
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A
307



2/A308 TYPICAL SLOPED ROOF GUTTER DETAIL

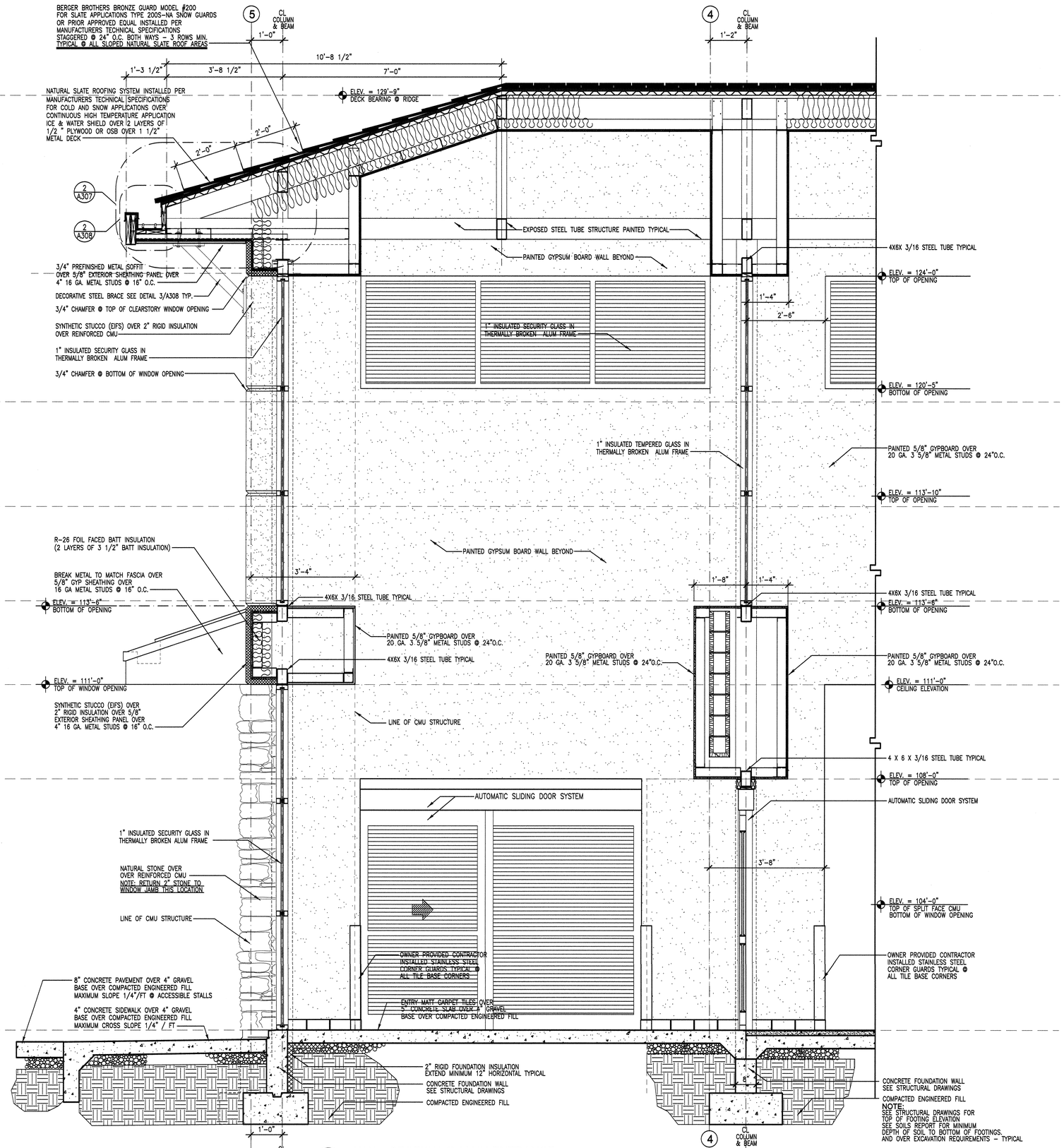
SCALE: 3" = 1'-0"



PROVIDE AND INSTALL 22 DECORATIVE STEEL BRACES IN LOCATION AS INDICATED ON THE EXTERIOR ELEVATIONS SHEET A201 & A202

3/A308 TYPICAL ARCHITECTURAL DECORATIVE BRACE (DODAD)

SCALE:1 1/2" = 1'-0"



1/A308 WALL SECTION @ MAIN ENTRANCE

SCALE: 3/4" = 1'-0"

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

WALL SECTIONS

STATE OF UTAH
FRANK N. MURDOCK
12498
3/22/10
LICENSED ARCHITECT

REVISION #	DATE:

DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-A308
PLOT SCALE: 1:16
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

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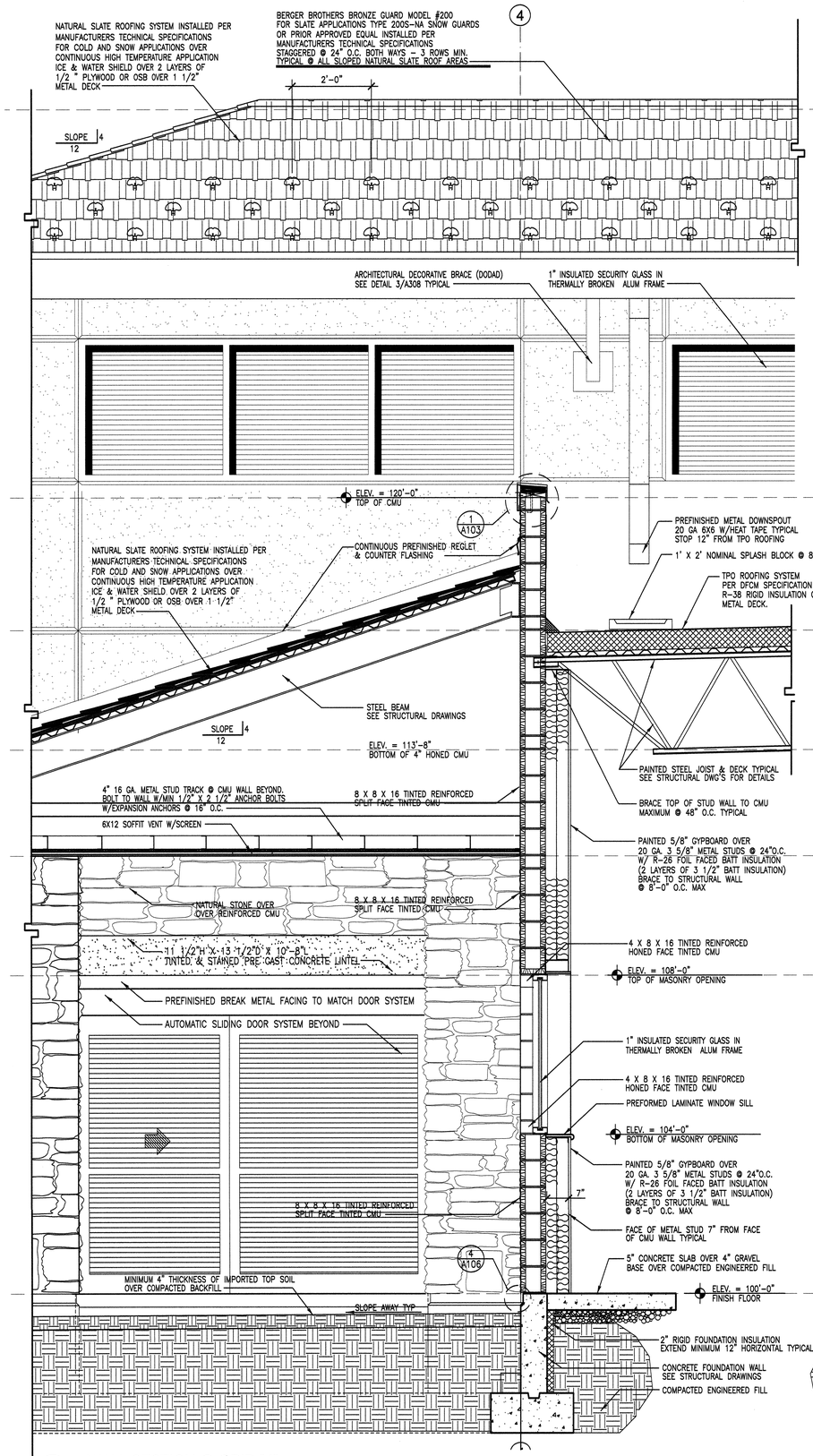
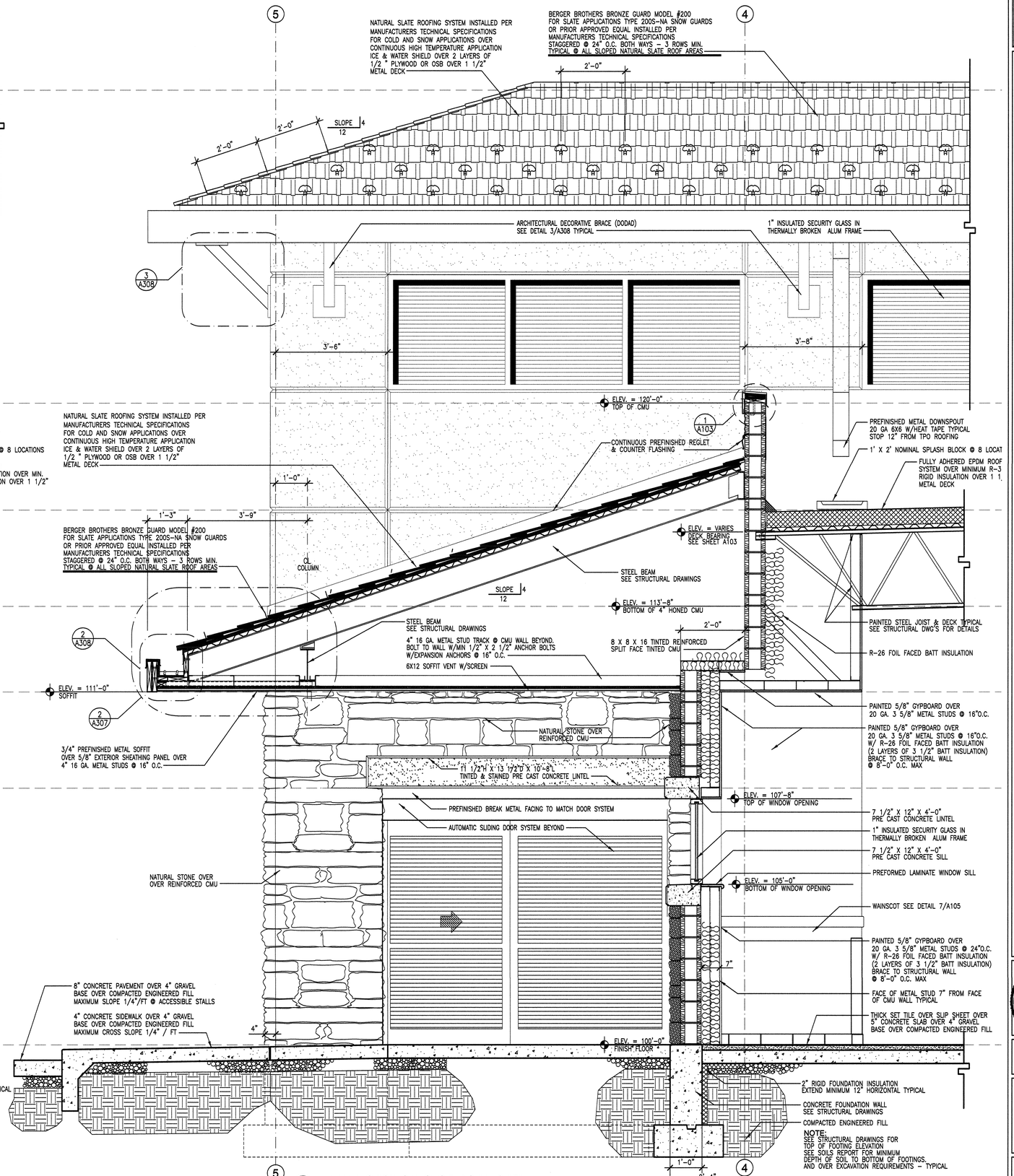
308



2/A309 WALL SECTION @ GRID "4"
SCALE: 3/4" = 1'-0"



1/A309 WALL SECTION @ GRIDS "4" & "5"
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

STATE OF UTAH
FRANK N. MURDOCK
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08226030
CONST. DOC.
FILE NAME: ABCSV-A309
PLOT SCALE: 1:16
DRAWN BY: STAFF
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DATE: MARCH 2010

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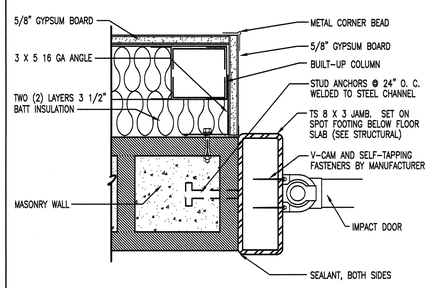
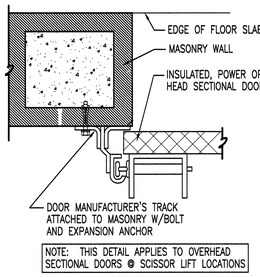
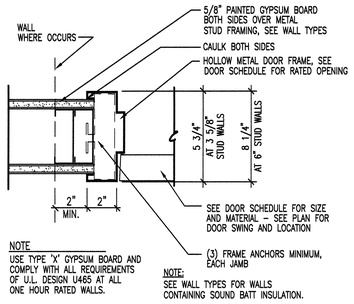
309



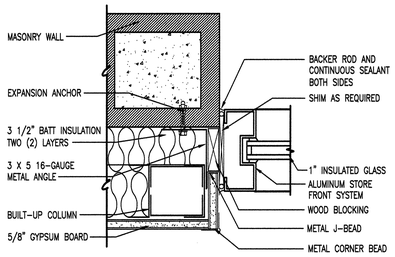
18 A501 IMPACT DOOR JAMB/head sim.
SCALE: NONE



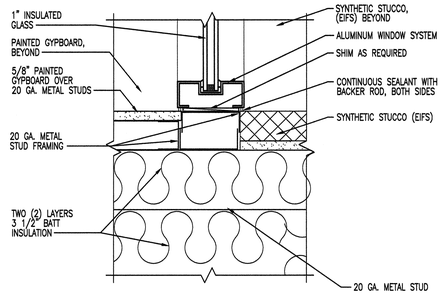
19 A501 OVERHEAD DOOR JAMB
SCALE: NONE



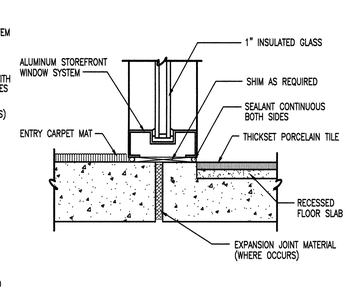
20 A501 HOLLOW METAL DOOR (INTERIOR)
SCALE: NONE



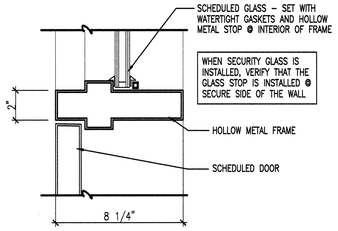
21 A501 STOREFRONT WINDOW JAMB
SCALE: NONE



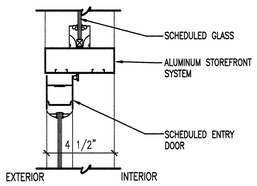
22 A501 STOREFRONT WINDOW SILL
SCALE: NONE



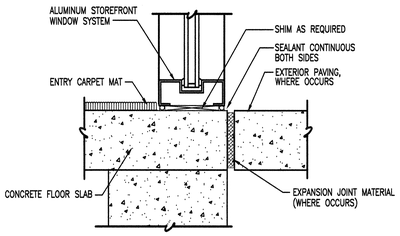
23 A501 STOREFRONT WINDOW SILL
SCALE: NONE



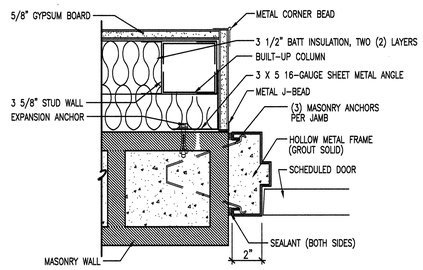
26 A501 HM DOOR HEAD/TRANSOM SILL
SCALE: NONE



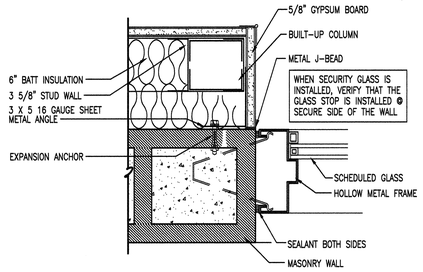
25 A501 STOREFRONT DOOR HEAD/TRANSOM SILL
SCALE: NONE



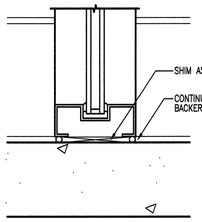
24 A501 STOREFRONT WINDOW SILL
SCALE: NONE



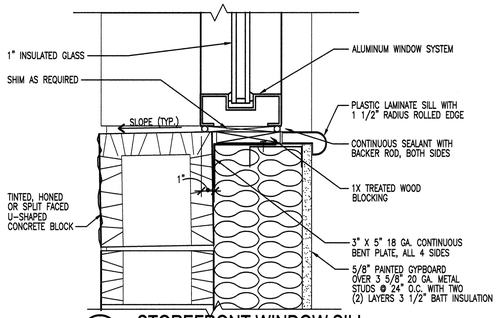
17 A501 HOLLOW METAL DOOR JAMB
SCALE: NONE



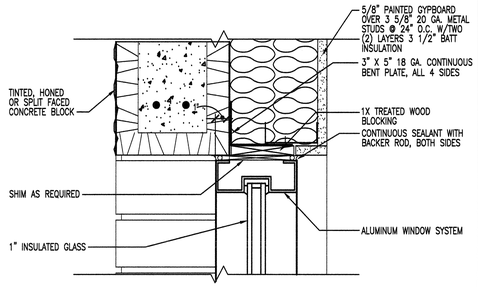
16 A501 HOLLOW METAL WINDOW JAMB
SCALE: NONE



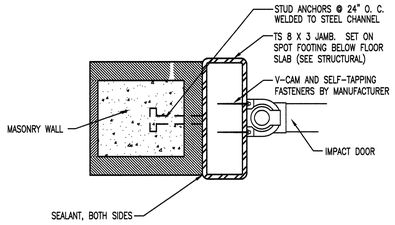
15 A501 STOREFRONT WINDOW SILL
SCALE: NONE



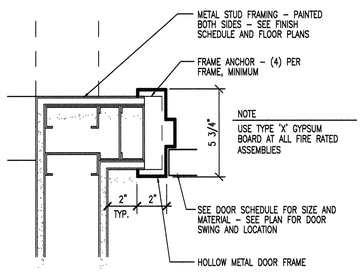
14 A501 STOREFRONT WINDOW SILL
SCALE: NONE



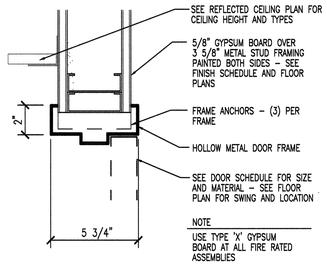
13 A501 STOREFRONT WINDOW HEAD
SCALE: NONE



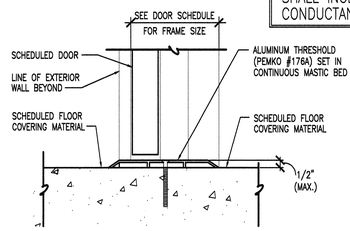
7 A501 IMPACT DOOR JAMB
SCALE: NONE



8 A501 DOOR JAMB DETAIL
SCALE: NONE

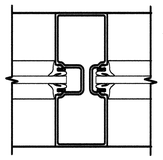


9 A501 DOOR HEAD
SCALE: NONE



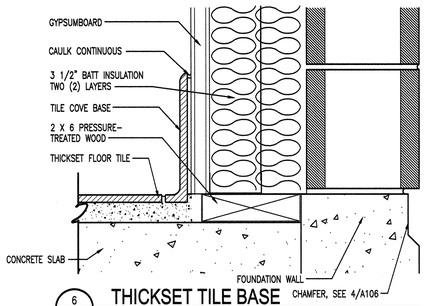
10 A501 DOOR THRESHOLD
SCALE: NONE

NOTE: ALL ALUMINUM WINDOW AND DOOR FRAMES SHALL INCLUDE AN INTEGRALLY CONCEALED LOW CONDUCTANCE THERMAL BARRIER (THERMAL-BREAK)

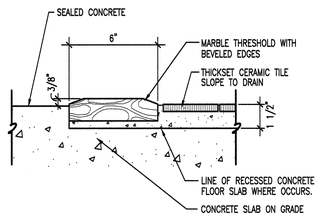


11 A501 STOREFRONT MULLION/MUNTON
SCALE: NONE

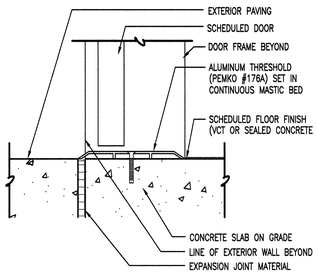
12 A501 STOREFRONT WINDOW JAMB
SCALE: NONE



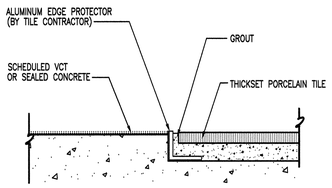
6 A501 THICKSET TILE BASE
SCALE: NONE



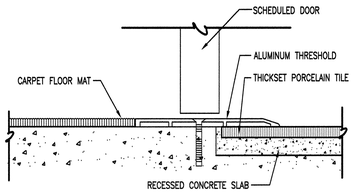
5 A501 MARBLE THRESHOLD
SCALE: NONE



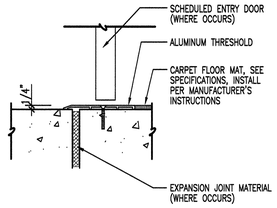
4 A501 DOOR THRESHOLD
SCALE: NONE



3 A501 CONCRETE TO TILE TRANSITION
SCALE: NONE



2 A501 TILE TO FLOOR MAT DETAIL
SCALE: NONE



1 A501 DOOR THRESHOLD (entry mat)
SCALE: NONE

NEW SPRINGVILLE LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
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MISCELLANEOUS DETAILS

STATE OF UTAH
FRANK N. MURDOCK
284693
3/22/10
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08226030
CONSTR. DOC.
FILE NAME: ABCSV-A501
PLOT SCALE: 3/12
DRAWN BY: STAFF
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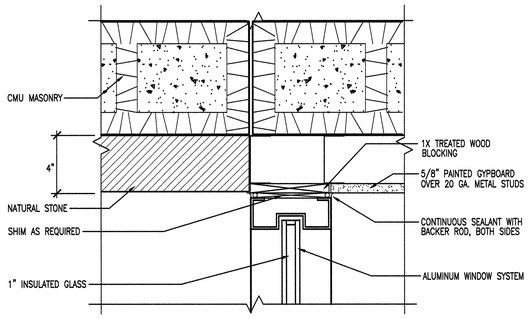
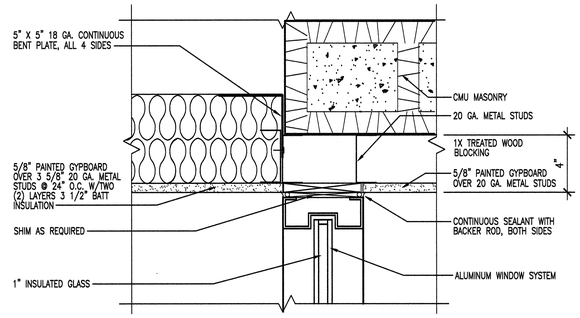
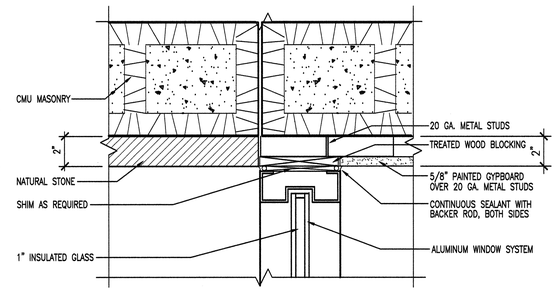
501



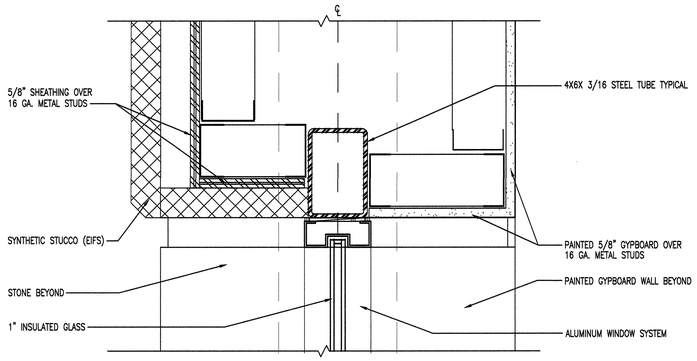
11 A502 STOREFRONT JAMB
SCALE: NONE



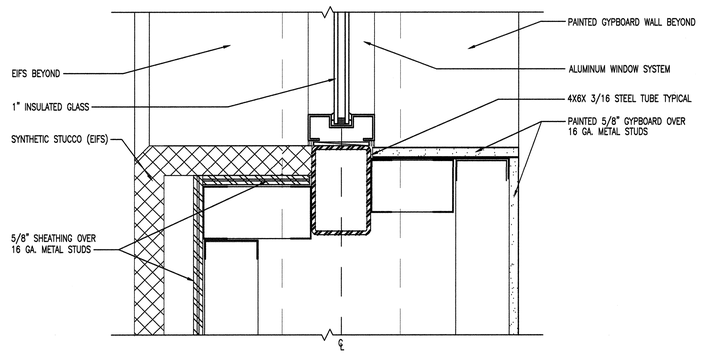
12 A502 STOREFRONT JAMB
SCALE: NONE



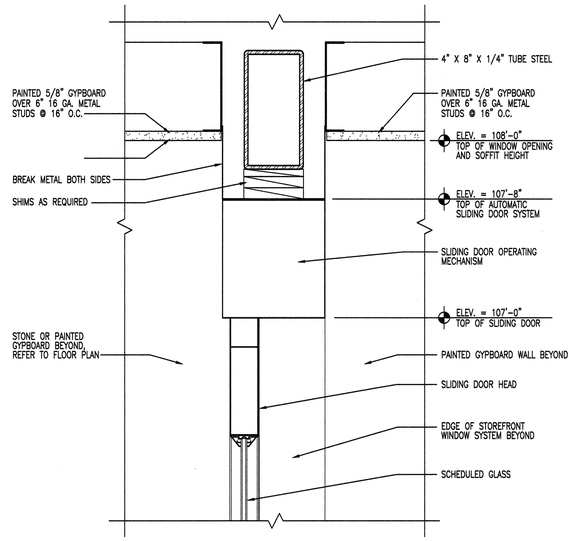
13 A502 STOREFRONT JAMB
SCALE: NONE



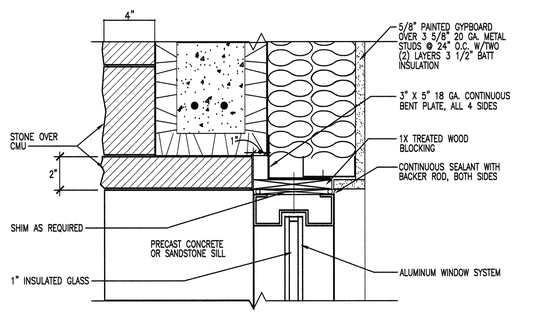
10 A502 STOREFRONT WINDOW HEAD
SCALE: NONE



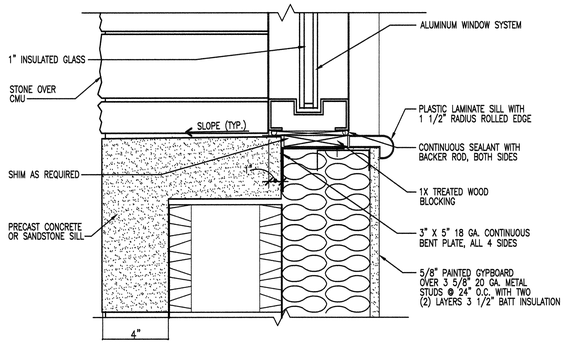
9 A502 STOREFRONT WINDOW SILL
SCALE: NONE



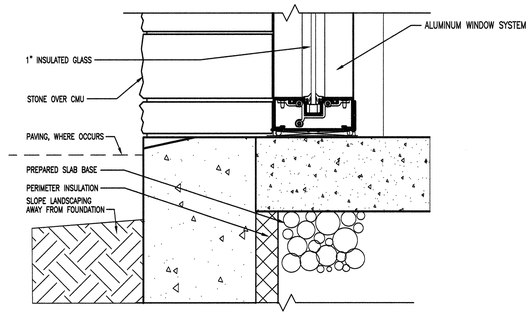
8 A502 AUTOMATIC SLIDING DOOR HEAD
SCALE: NONE



5 A502 STOREFRONT WINDOW JAMB
SCALE: NONE



6 A502 STOREFRONT WINDOW SILL
SCALE: NONE



7 A502 STOREFRONT WINDOW SILL
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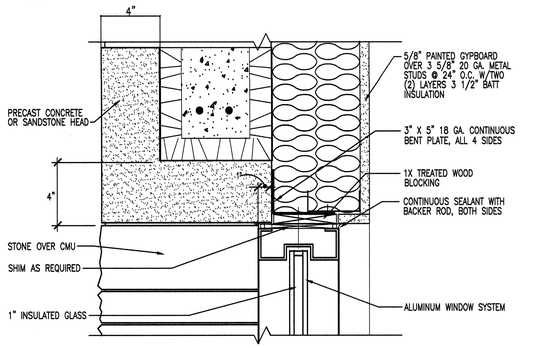
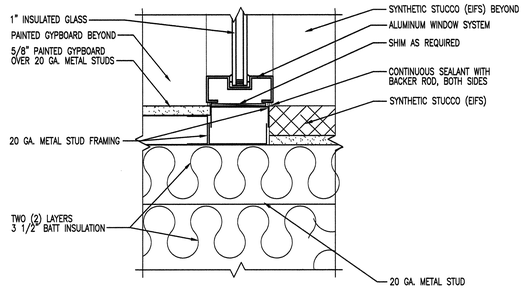
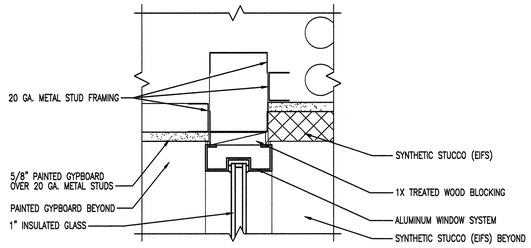


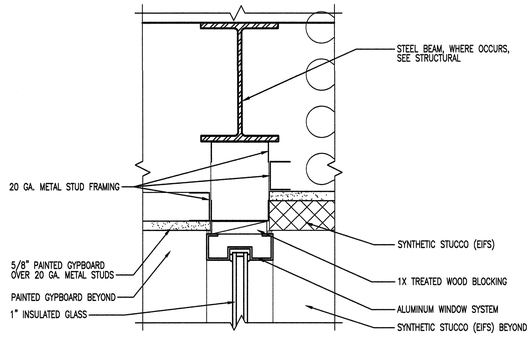
4 A502 STOREFRONT WINDOW HEAD
SCALE: NONE



3 A502 WINDOW SILL
SCALE: NONE



2 A502 WINDOW JAMB
SCALE: NONE



1 A502 WINDOW HEAD
SCALE: NONE

NEW SPRINGVILLE LIQUOR STORE

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MISCELLANEOUS DETAILS

STATE OF UTAH
FRANK N. MURDOCK
#224493-5
LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.:
08226030
CONSTR. DOC.
FILE NAME: ABCSV-A502
PLOT SCALE: 3:12
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

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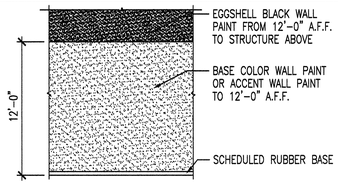
502

FINISH SCHEDULE

ROOM	FLOOR	WALLS	BASE	CEILING	HEIGHT	REMARKS
ENTRY VESTIBULE	ENTRY MAT (CARPET)	PAINTED GYPBOARD	RUBBER	PAINTED GYPBOARD	VARIES	
CLERESTORY	---	PAINTED GYPBOARD	---	PAINTED GYPBOARD	VARIES	
SALES AREA	THICKSET TILE OVER SLIP SHEET	PAINTED GYPBOARD	TILE	EXPOSED STRUCTURE	VARIES	
STORAGE ROOM	SEALED CONCRETE	PAINTED GYPBOARD	RUBBER	PAINTED GYPBOARD	11'-6"	
OFFICE AND STAIRS	CARPET (TILES/BROADLOOM)	PAINTED GYPBOARD	RUBBER	EXPOSED STRUCTURE	VARIES	RAISED PLATFORM @ 3'-6" A.F.F.
STORAGE	SEALED CONCRETE	PAINTED GYPBOARD/WAINSCOT	RUBBER	EXPOSED STRUCTURE	VARIES	WAINSCOT-SEALED PARTICLEBOARD, SEE 1/A105
JANITOR'S ROOM	SEALED CONCRETE	PAINTED GYPBOARD	RUBBER	PAINTED GYPBOARD	11'-6"	PARTIAL TILE ON TWO WALLS, SEE 22/A104
WOMEN'S TOILET	THICKSET TILE OVER SLIP SHEET	TILE/PAINTED GYPBOARD	TILE	PAINTED GYPBOARD	11'-6"	WALL TILE TO 8'-0" A.F.F., ALL WALLS
MEN'S TOILET	THICKSET TILE OVER SLIP SHEET	TILE/PAINTED GYPBOARD	TILE	PAINTED GYPBOARD	11'-6"	WALL TILE TO 8'-0" A.F.F., ALL WALLS
LUNCH COUNTER	SEALED CONCRETE	PAINTED GYPBOARD	RUBBER	EXPOSED STRUCTURE	VARIES	SEE INTERIOR ELEVATIONS FOR CABINETRY
ENCLOSED DOCK	SEALED CONCRETE	PAINTED GYPBOARD	RUBBER	EXPOSED STRUCTURE	VARIES	
BOX STORAGE	THICKSET TILE OVER SLIP SHEET	PAINTED GYPBOARD/CARPET	TILE	PAINTED GYPBOARD	11'-6"	WAINSCOT-CARPET/PARTICLEBOARD, SEE 7/A105
CART STORAGE	THICKSET TILE OVER SLIP SHEET	PAINTED GYPBOARD/CARPET	TILE	PAINTED GYPBOARD	11'-6"	WAINSCOT-CARPET/PARTICLEBOARD, SEE 7/A105

WALL PAINT SCHEDULE



NOTE: WALL PAINT SHALL INCLUDE EGGSHELL BLACK, BASE WALL COLOR PLUS THREE ACCENT COLORS. ACCENT COLORS SHALL BE ON WALL LOCATIONS AS SELECTED BY ARCHITECT. ACCENT COLORS SHALL BE FROM FLOOR TO 12' A.F.F. AND FROM CORNER TO CORNER OF SELECTED WALLS UNLESS OTHERWISE DIRECTED BY ARCHITECT.

DOOR SCHEDULE NOTES

NOTE 1 – AUTOMATIC SLIDERS W/SENSOR ACTIVATION AND FULL BREAKOUT. PROVIDE 10" HIGH BOTTOM RAIL AND CONTINUOUS THRESHOLD.

NOTE 2 – INSULATED OVERHEAD SECTIONAL DOOR W/OPERATOR. PROVIDE AUTO REVERSING MECHANISM AND OPERATIONAL INTERFACE WITH DOCK LEVELER CONTROLS.

NOTE 3 – PROVIDE TWO (2) PEEPHOLE VIEWERS IN EACH DOOR, SEE DOOR TYPE D-1 FOR INSTALLATION HEIGHTS.

NOTE 4 – PROVIDE GALVANIZED STEEL FRAME, PAINTED.

GLASS TYPES

(A) 1" THICK "LOW E" INSULATING GLASS: 1/4" TINTED FLOAT GLASS EXTERIOR AND 1/4" CLEAR FLOAT GLASS INTERIOR WITH 1/2" AIR SPACE.

(ACT) 1" THICK "LOW E" INSULATING GLASS: 1/4" CLEAR FLOAT TEMPERED GLASS EXTERIOR AND 1/4" CLEAR FLOAT TEMPERED GLASS INTERIOR WITH 1/2" AIR SPACE.

(BT) 1/4" CLEAR FLOAT TEMPERED GLASS

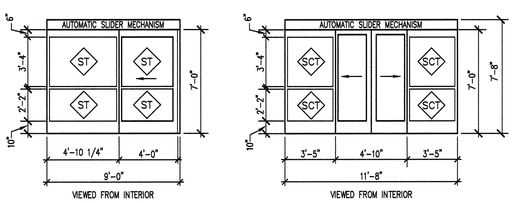
(P) 1/8" POLYCARBONATE AT IMPACT DOORS AND OVERHEAD DOORS (PROVIDED AND INSTALLED BY DOOR MANUFACTURER).

(S) SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 TINTED FLOAT GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

(ST) SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 TINTED FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

(SCT) SECURITY GLASS "LOW E": 1" THICK INSULATING GLASS: 1/4 CLEAR FLOAT TEMPERED GLASS EXTERIOR, AND 5/16" SECURITY-LAMINATED SHEETS OF GLASS WITH INNER LAYER OF .075" VINYL OR POLYCARBONATE @ INTERIOR WITH 7/16" AIRSPACE BETWEEN INTERIOR AND EXTERIOR GLASS.

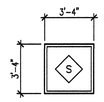
FRAME TYPES



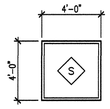
TYPE F-1

TYPE F-2

TYPE F-3

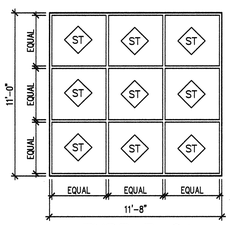


TYPE F-4

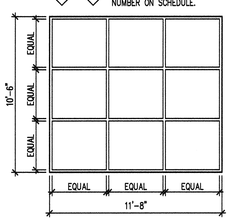


TYPE F-5

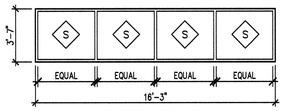
(BT) (S) GLASS TYPES FOR FRAME TYPE F-6B. REFER TO WINDOW NUMBER ON SCHEDULE.



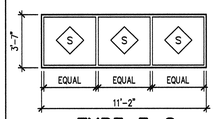
TYPE F-6A



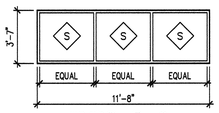
TYPE F-6B



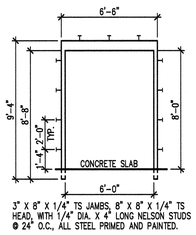
TYPE F-7



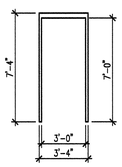
TYPE F-8



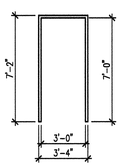
TYPE F-9



TYPE F-10

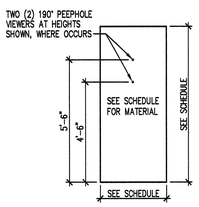


TYPE F-11

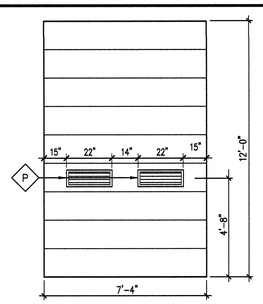


TYPE F-12

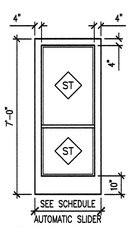
DOOR TYPES



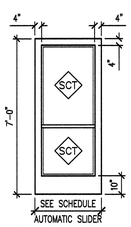
TYPE D-1



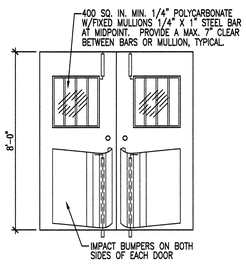
TYPE D-2
OVERHEAD SECTIONAL DOOR



TYPE D-3



TYPE D-4



TYPE D-5
DOUBLE IMPACT DOOR

WINDOW SCHEDULE

NO.	SIZE		FRAME			GLASS	WDW	DETAIL REFERENCE				NO.	REMARKS
(A)	WIDTH	HEIGHT	MATERIAL	TYPE	FINISH	TYPE	BLINDS	HEAD	LEFT JAMB	RIGHT JAMB	SILL	(A)	CONTRACTOR TO VERIFY ALL WINDOW DIMENSIONS WITH THE MANUFACTURER
1	9'-0"	7'-0"	ALUM	F-1	FF	ST	---	8/A502	11/A502	11/A502	24/A501	1	AUTO. ENTRY DOOR INTEGRAL TO WDW FRAME
2	11'-8"	7'-0"	ALUM	F-2	FF	SCT	---	8/A502	12/A502	12/A502	23/A501	2	AUTO. ENTRY DOOR INTEGRAL TO WDW FRAME
3	9'-0"	7'-0"	ALUM	F-1	FF	ST	---	8/A502	11/A502	11/A502	24/A501	3	AUTO. ENTRY DOOR INTEGRAL TO WDW FRAME
4	11'-8"	11'-0"	ALUM	F-6A	FF	ST	---	10/A502	13/A502	13/A502	7/A502	4	
5	2'-8"	2'-8"	ALUM	F-3	FF	S	---	4/A502	5/A502	5/A502	6/A502	5	
6	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	6	
7	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	7	
8	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	8	
9	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	9	
10	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	10	
11	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	11	
12	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	12	
13	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	13	
14	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	14	
15	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	15	
16	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	16	
17	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	17	
18	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	18	
19	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	19	
20	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	20	
21	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	21	
22	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	22	
23	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	23	
24	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	24	
25	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	25	
26	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	26	
27	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	27	
28	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	28	
29	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	29	
30	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	30	
31	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	31	
32	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	32	
33	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	33	
34	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	34	
35	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	35	
36	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	36	
37	3'-4"	3'-4"	ALUM	F-4	FF	S	---	13/A501	12/A501	12/A501	14/A501	37	
38	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	38	
39	4'-0"	4'-0"	ALUM	F-5	FF	S	---	13/A501	12/A501	12/A501	14/A501	39	
40	2'-8"	2'-8"	ALUM	F-3	FF	S	---	4/A502	5/A502	5/A502	6/A502	40	
41	11'-8"	10'-6"	ALUM	F-6B	FF	S	---	10/A502	10/A502sim	10/A502sim	9/A502	41	
42	11'-2"	3'-7"	ALUM	F-8	FF	S	---	1/A502	2/A502	2/A502	3/A502	42	
43	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	43	
44	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	44	
45	11'-8"	3'-7"	ALUM	F-9	FF	S	---	1/A502	2/A502	2/A502	3/A502	45	
46	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	46	
47	16'-3"	3'-7"	ALUM	F-7	FF	S	---	1/A502	2/A502	2/A502	3/A502	47	
48	11'-2"	3'-7"	ALUM	F-8	FF	S	---	1/A502	2/A502	2/A502	3/A502	48	
49	11'-8"	10'-6"	ALUM	F-6B	FF	BT	---	1/A502	2/A502	2/A502	3/A502	49	

DOOR SCHEDULE

NO.	SIZE			DOOR			FRAME			DETAIL REFERENCE			HDW.	REMARKS
	WIDTH	HEIGHT	THICK.	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESH.		
01	4'-0"	7'-0"	---	D-3	ALUMINUM	FF	F-1	ALUMINUM	FF	25/A501	---	1/A501	1	SEE DOOR SCHEDULE NOTE 1.
02	PR. 2'-6"	7'-0"	---	D-4	ALUMINUM	FF	F-2	ALUMINUM	FF	25/A501	---	2/A501	1	SEE DOOR SCHEDULE NOTE 1.
03	4'-0"	7'-0"	---	D-3	ALUMINUM	FF	F-1	ALUMINUM	FF	25/A501	---	1/A501	1	SEE DOOR SCHEDULE NOTE 1.
04	3'-0"	7'-0"	---	D-1	HOLLOW METAL	PAINTED	F-11	HOL. MTL.	PAINTED	17/A501	17/A501 SIM	1/A501	7	SEE DOOR SCHEDULE NOTES 3 AND 4.
05	7'-4"	12'-0"	---	D-2	SEE SPECS	FF	--	---	---	---	19/A501	---	6	SEE DOOR SCHEDULE NOTE 2.
06	3'-0"	7'-0"	---	D-1	HOLLOW METAL	PAINTED	F-11	HOL. MTL.	PAINTED	17/A501	17/A501 SIM	1/A501	7	SEE DOOR SCHEDULE NOTES 3 AND 4.
07	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	5/A501	5	
08	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	5/A501	5	
09	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	---	4	
10	3'-0"	7'-0"	1 3/4"	D-1	WOOD	STAINED	F-12	HOL. MTL.	PAINTED	20/A501sim.	20/A501	---	4	
11	PR. 3'-0"	8'-0"	---	D-5	IMPACT	FF	F-10	HOL. MTL.	PAINTED	18/A501sim.	7 & 18/A501	---	8	LIGHTWEIGHT IMPACT DOORS

NEW SPRINGVILLE LIQUOR STORE

DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

DOOR, WINDOW AND FINISH SCHEDULES

STATE OF UTAH — FRANK N. MURDOCK — 124498 — 3/22/10 — LICENSED ARCHITECT

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-A601
PLOT SCALE: 1:48
DRAWN BY: STAFF
CHECKED BY: FNM
DATE: MARCH 2010

A 601

STRUCTURAL NOTES

STRUCTURAL DESIGN LOADS

ROOF:
- DEAD LOAD: DL = 20 PSF
- GROUND SNOW LOAD: Pg = 43 PSF
- FLAT ROOF SNOW LOAD: Pf = 30 PSF
- SNOW EXPOSURE FACTOR: Ce = 1.0
- SNOW IMPORTANCE FACTOR: I = 1.0
- THERMAL FACTOR: Ct = 1.0

WIND LOAD:
- BASIC WIND SPEED: V = 90 MPH (3 SEC GUST)
- IMPORTANCE FACTOR: I = 1.0
- WIND EXPOSURE: "C"
- COMPONENT AND CLADDING PRESSURE: P = 20 PSF

SEISMIC:
- OCCUPANCY CATEGORY: II
- IMPORTANCE FACTOR: I = 1.0
- DESIGN CATEGORY: D
- SPECTRAL RESPONSE COEF: SDS = 0.83, SD1 = 0.53
- SITE CLASS: D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS R=5, OMEGA=2.5, Cd=3.5, Cs=0.17

SOILS:
NET ALLOWABLE SOIL PRESSURE = 1,500 PSF, PER REPORT

ALL FOOTINGS MUST BEAR ON A MINIMUM OF 12" OF STRUCTURAL FILL AS NOTED IN THE GEOTECHNICAL REPORT.

GENERAL

1. ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
4. DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS, DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
6. OPTIONS ARE FOR THE CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DESIGN CHANGES. COST ASSOCIATED WITH ANY DESIGN WORK INITIATED BY THE OPTION SHALL BE BORN BY THE CONTRACTOR.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
8. TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
9. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
10. THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL, STRUCTURAL STEEL, MISCELLANEOUS METALS, AND PREFABRICATED STEEL JOISTS.
11. ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.
12. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.
13. OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF CALDER RICHARDS CONSULTING ENGINEERS SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
14. SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

QUALITY ASSURANCE PLAN

1. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT DOCUMENTS.
2. THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
3. SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.
4. OFF-SITE FABRICATION: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.2 UNLESS THE FABRICATOR IS APPROVED ACCORDING TO IBC SECTION 1704.2.2.
5. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1704.3 AND TABLE 1704.3.
6. WELDING: WELDING INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.3.
7. HIGH-STRENGTH BOLTS: PERIODIC SPECIAL INSPECTION SHALL BE PROVIDED FOR INSTALLATION OF HIGH-STRENGTH BOLTS IN ACCORDANCE WITH AISC SPECIFICATIONS. SEE IBC SECTION 1704.3.3.
8. CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1704.4.
9. MASONRY CONSTRUCTION: LEVEL 1 SPECIAL INSPECTION SHALL BE PROVIDED FOR MASONRY CONSTRUCTION IN ACCORDANCE WITH SECTION 1704.5.2 AND TABLE 1704.5.1. TESTING SHALL COMPLY WITH SECTION 1708.1.3
10. SOILS: SPECIAL INSPECTION SHALL BE PROVIDED FOR PLACEMENT OF FILL 12 INCHES OR MORE DEEP IN ACCORDANCE WITH SECTION 1704.7.
11. EPOXY ANCHORS: PRIOR TO AND DURING EPOXY INJECTION TO INSURE PROPER INSTALLATION AS PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED EPOXY MANUFACTURERS ICBO REPORT TO STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

QUALITY ASSURANCE - CONTRACTOR RESPONSIBILITY

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
   - A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   - B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   - C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
   - D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THE POSITION(S) IN THE ORGANIZATION.

STRUCTURAL DEFERRED SUBMITTALS

1. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO ARCHITECT/ENGINEER BEFORE SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING.

   ITEMS:
   1. OPEN WEB METAL JOISTS AND GIRDERS

FOOTINGS

1. ALL FOOTINGS SHALL BEAR ON ENGINEERED COMPACTED FILL EXTENDING DOWN TO SUITABLE SOILS AS PER THE GEOTECHNICAL REPORT BY GORDAN SPILKER HUBER GEOTECHNICAL CONSULTANTS, INC. JOB NUMBER 0128-033-08 DATED MARCH 5, 2009. EXCAVATION MUST BE FIELD VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY STRUCTURAL FILL.
2. FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
3. EXTERIOR WALL FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 2'-6" BELOW FINISHED EXTERIOR GRADE.
4. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
5. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THE GEOTECHNICAL REPORT AND ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING.
6. WHERE 6" DIAMETER OR LARGER PIPE PASSES THROUGH AN INTERIOR OR EXTERIOR FOUNDATION WALL, STEP THE FOOTING DOWN TO PASS BELOW PIPE AND THEN STEP BACK UP TO INDICATED ELEVATION. PROVIDE PIPE SLEEVE THROUGH FOUNDATION WALL.
7. ALL FOOTING EXCAVATIONS MUST BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

REINFORCING STEEL

1. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-05 AND ACI STANDARD 318-05
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.
4. ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.
5. REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (DBA) SHALL COMPLY WITH ASTM A706 OR ANOTHER WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE AWS RECOMMENDATIONS.
6. ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEGREE TURN OR A SEPARATE CORNER BAR. ALL SPLICE SHALL HAVE A MINIMUM LAP OR EMBEDMENT PER REINFORCING SCHEDULE.
7. WHERE THE LENGTH OF A BAR IS GIVEN AND IT IS TO BE HOOKED, THE HOOK SHALL BE IN ADDITION TO THE LENGTH GIVEN, UNLESS SHOWN OTHERWISE.
8. COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:
   - A. UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS). 3"
   - B. SLABS ON GRADE..... 2"
   - C. FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC). BEAMS AND COLUMNS..... 2"
   - D. STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH..... 1"
   - E. INTERIOR WALL SURFACES..... 1"
   - F. INTERIOR BEAMS AND COLUMNS..... 1-1/2"
   - G. IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.
9. PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

CONCRETE

1. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   (DUE TO SOIL CONDITION, TYPE II CEMENT MUST BE USED AND THE WATER TO CEMENT RATIO LIMITED TO 0.50.)
   - FOOTINGS, FOUNDATION WALLS, & COLUMNS/PIERS..... 4000 PSI
   - INTERIOR SLABS ON GRADE..... 4000 PSI
   - EXTERIOR FLAT WORK..... 4000 PSI
2. LT WEIGHT CONCRETE ON METAL DECK..... 3000 PSI

   A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER
3. PRIOR TO COMMENCING WORK.

   ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI
4. STANDARDS AND PRACTICES.

   UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE CONCRETE WALLS AS FOLLOWS:

WIDTH	HORIZ REINF	VERT REINF
8" WALL	#5 @ 12"	#5 @ 16" CENTER OF WALL

CONCRETE, CONT

5. DOWEL VERTICAL BARS 36 DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEGREE HOOK WHERE 36 DIAMETER IS NOT POSSIBLE. IN ADDITION, PROVIDE (2) #5 CONTINUOUS BARS TOP AND BOTTOM OF 6" AND 8" WALLS AND (2) #6 BARS TOP AND BOTTOM OF WALLS 10" OR THICKER.
6. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
7. ADD (2) #5 BARS MINIMUM AROUND ALL OPENINGS (UNLESS OTHERWISE NOTED) AND EXTEND 24" BEYOND CORNER OF OPENING.
8. WHERE OPENINGS LARGER THAN 16" IN ANY DIRECTION OCCUR IN WALLS OR SLABS, PROVIDE SAME SIZE ADDITIONAL, FULL LENGTH REINFORCING AT EACH SIDE OF OPENING EQUAL TO 1/2 THE NUMBER OF BARS INTERRUPTED BY THE OPENING. SPACE ADDITIONAL BARS AT 4 x BAR DIAMETER.
9. ALL SLABS ON GRADE SHALL BE PLACED IN ALTERNATE PANELS WITH A MAXIMUM WIDTH OF 20' BETWEEN CONTROL OR CONSTRUCTION JOINTS; REFER TO TYPICAL DETAILS ON DRAWINGS. UNLESS OTHERWISE NOTED, SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC.
10. REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT SHALL BE CONTINUOUS THRU JOINTS AND EACH CONSTRUCTION JOINT SHALL BE KEYED.
11. WHERE EXTERIOR SLABS ON GRADE ABUT WALLS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT WITH SEALANT.

MASONRY (CMU)

1. ALL MASONRY SHALL BE REINFORCED WITH BOTH HORIZONTAL AND VERTICAL REINFORCEMENT. ALL BLOCK CELLS OR BRICK CAVITIES WITH REINFORCEMENT SHALL BE GROUTED FULL USING CONCRETE 2000 PSI GROUT. CELLS SHALL BE ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES OF 2"x3" MINIMUM.
2. CONCRETE FOR BLOCK FILL SHALL HAVE 3/8" MAXIMUM SIZE COURSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. WHERE BEAMS BEAR ON CONCRETE BLOCK WALLS. BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCE WITH A #5 EACH CELL, UNLESS OTHERWISE SHOWN.
3. AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.
4. ALL STEEL JOIST, JOIST GIRDER, AND STEEL BEAM POCKETS IN MASONRY SHALL BE GROUTED SOLID UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
5. HORIZONTAL BARS SHALL BE PLACED IN BOND BEAMS FILLED WITH GROUT AT THE TOP OF ALL WALLS AND AT 48" OC MAXIMUM BETWEEN TOP OF WALL AND FOUNDATION. BOND BEAM UNITS AND REINFORCING SHALL CONTINUE UNINTERRUPTED AROUND ALL CORNERS AND WALL INTERSECTIONS. WHERE STRUCTURAL STEEL COLUMNS OR BEAMS INTERRUPT THE CONTINUITY OF A BOND BEAM, DOWELS MATCHING BOND BEAM REINFORCEMENT SHALL BE WELDED TO THE STRUCTURAL STEEL TO PROVIDE CONTINUITY.
6. ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND SPACING. LAP ALL SPLICES IN MASONRY PER REBAR SHEDULE. PLACE ALL BARS SECURELY PRIOR TO GROUTING.
7. MASONRY REINFORCEMENT: THE MINIMUM REINFORCEMENT IN GROUTED CELLS FOR ALL MASONRY WALLS SHALL BE AS FOLLOWS:
   8" WALLS: #5 @ 32" OC VERTICAL AND
   (2) #4 @ 48" OC HORIZONTAL
8. ALL HORIZONTAL REINFORCING SHALL TERMINATE WITH A HOOK AROUND VERTICAL REINFORCING.
9. IN ADDITION LADDER-TYPE REINFORCING CONSISTING OF #9 WIRE FOR EACH FACE SHELL OF EACH WYTHE SHALL BE USED AT 16" OC HORIZONTALLY IN ALL MASONRY WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
10. CONCRETE MASONRY UNITS SHALL BE GRADE N UNITS CONFORMING TO ASTM DESIGNATION C90 AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET SECTION.
11. MORTAR SHALL BE TYPE "S" AND SHALL HAVE THE FOLLOWING PROPORTIONS BY VOLUMES:
    - PORTLAND CEMENT..... 1 PART
    - HYDRATED LIME..... 1/4 - 1/2 PART
    - DAMP LOOSE AGGREGATE.. NOT LESS THAN 2-1/4 AND NOT MORE THAN (3) TIMES THE SUM OF CEMENT AND LIME USED.
12. STOP GROUT POURS 1/2" BELOW TOP OF BLOCK UNITS.
13. ALL ANCHOR BOLTS MUST BE PLACED IN GROUTED CELLS.
14. NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEGREES FARENHEIT, UNLESS APPROVED METHODS ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY. SUCH METHODS SHALL INCLUDE PROTECTION OF THE MASONRY FOR A PERIOD OF AT LEAST 48 HOURS.
15. ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT FARTHER APART THAN 200 BAR DIAMETERS. PROVIDE WIRE TIES AT ALL LAP SPLICES.
16. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT: MAJOR CHANGES IN WALL HEIGHT, AT CHANGES IN WALL THICKNESS, AT BUILDING CONSTRUCTION JOINTS, AND NOT FARTHER APART THAN 40 FEET ELSEWHERE. PROVIDE MATCHING CONTROL JOINTS FOR BRICK VENEER. CONSULT ARCHITECTURAL DRAWINGS FOR LOCATIONS. VERTICAL CELLS EACH SIDE OF CONTROL JOINTS SHALL BE GROUTED AND REINFORCED WITH REBARS TO MATCH VERTICAL REINFORCEMENT USED THROUGHOUT THAT WALL. ONLY HORIZONTAL REBARS IN BOND BEAMS AT FLOORS AND AT ROOF LEVEL SHALL CONTINUE THROUGH CONTROL JOINTS. PROVIDE FULL HEIGHT HARD RUBBER KEY AT JOINT. WHERE JOINT LOCATIONS ARE NOT SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS TO ARCHITECT/ENGINEER FOR REVIEW.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2006 EDITION.
2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
4. STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501, GRADE B; YIELD STRESS = 35 KSI.
5. USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
6. PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.

STRUCTURAL STEEL, CONT

7. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
8. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A "DIRECT TENSION INDICATOR." THE "TURN-OF-NUT METHOD MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENT.
9. ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE". UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND HE SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS. JOISTS SHALL BE DESIGNED ASSUMING HORIZONTAL MOVEMENT IS ALLOWED AT ONE END, UNLESS NOTED OTHERWISE.
10. ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8" ANCHOR BOLTS.
11. WHERE JOISTS CAN NOT BEAR 2-1/2" ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2-1/2" MINIMUM BEARING ON BEAM.
12. CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM JOISTS UNLESS THEY ARE PLACED AT PANEL POINTS OR A BRACE (L1-1/2x1-1/2x1/8) IS INSTALLED BETWEEN THE LOAD AND PANEL POINT. CONCENTRATED LOADS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW.
13. A CERTIFICATE OF COMPLIANCE FOR THE STEEL ROOF JOISTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL UPON COMPLETION OF FABRICATIONS, PER IBC 2206.5.
14. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR A NET WIND UPLIFT OF 10 PSF, UNLESS NOTED OTHERWISE.
15. OPEN WEB ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS:
    - LIVE OR SNOW LOAD SPAN/360
    - TOTAL LOAD SPAN/240
16. PROVIDE CAMBER IN OPEN WEB JOIST AND GIRDER PER STEEL JOIST INSTITUTE RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
17. JOIST MANUFACTURER TO DESIGN JOIST TOP CHORD WITH UNBRACED LENGTH EQUAL TO SKYLIGHT OPENING.
18. WHERE STEEL JOIST OR GIRDER SLOPE EXCEEDS 1/4" PER FOOT, PROVIDE SLOPED BEARING SEAT.
19. THE STEEL JOIST AND GIRDER MANUFACTURER SHALL SUBMIT ERECTION DRAWINGS AND STAMPED CALCULATIONS BY A LICENSED CIVIL OR STRUCTURAL ENGINEER TO THE ENGINEER OF RECORD FOR REVIEW.
20. JOISTS SHALL BE DESIGNED FOR AN ADDITIONAL 500 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
21. GIRDERS SHALL BE DESIGNED FOR AN ADDITIONAL 1000 LBS CONCENTRATED LOAD AT ANY ONE PANEL POINT.
22. JOIST MANUFACTURER TO DESIGN FOR THE MECHANICAL UNITS SHOWN WITH WEIGHTS GREATER THAN 500 LBS.
23. SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY IBC 2006 SHALL BE PROVIDED BY THE OWNER.
24. MECHANICAL ROOF TOP UNITS SHALL BE PLACED OVER ADDITIONAL OR SPECIAL JOISTS AS SHOWN ON DRAWINGS. THE WEIGHT, SIZE AND LOCATION OF ALL PROPOSED UNITS AND CURBS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION BEFORE FABRICATION OF STEEL.
25. FRAMES FOR ROOF OPENINGS AND SUPPORTS FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE INDICATED ON DRAWINGS FOR BID PURPOSES ONLY. UPON RECEIPT OF MECHANICAL SUBMITTALS, THE CONTRACTOR SHALL FURNISH STEEL SUPPLIER SUPPLEMENTARY DRAWINGS OR OTHER INFORMATION NECESSARY TO LAYOUT AND DETAIL THIS PORTION OF THE WORK. OTHER STEEL WORK SHALL NOT BE DELAYED BY THIS PORTION OF THE WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
26. STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI. SUBMIT ICBO REPORT WITH SHOP DRAWINGS.
27. WHERE POSSIBLE, ALL DECK SHALL BE (3) SPAN CONTINUOUS MINIMUM. IN AREAS WHERE (3) SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAGE DECK AND/OR SHORING AS REQUIRED.
28. DECK SHALL HAVE A MINIMUM BEARING LENGTH OF 2".
29. **MARK EXPOSED STEEL ON TOP OF TUBES TO AVOID FLASHING OF PAINT ON INTERIOR PAINTED SURFACES AND DIFFERENTIAL RUST SPOTS ON EXTERIOR SURFACES.**

LIGHT GAGE METAL FRAMING

1. DESIGN, FABRICATION AND ERECTION OF LIGHT-GAGE METAL FRAMING SHALL COMPLY WITH REQUIREMENTS OF: AISC "MANUAL OF STEEL CONSTRUCTION", AWS "STRUCTURAL WELDING CODE", AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AND ICBO REPORT ER-4943P.
2. FRAMING SHOWN ON PLANS ARE MINIMUM SIZES AND CONDITIONS. SUBSTITUTION OF FRAMING MEMBERS SHALL BE APPROVED BY ARCHITECT AND ENGINEERS. THEY SHALL HAVE CAPACITY FOR GRAVITY LOADS AND LATERAL LOADS EQUAL TO OR BETTER THAN SPECIFIED FRAMING MEMBERS AND SHALL BE ICBO APPROVED.
3. ALL COMPONENTS SHALL BE GALVANIZED ACCORDING TO REQUIREMENTS OF ASTM A-525 FOR MINIMUM G-60 COATING.
4. ALL 16 AND 18 GAGE STUDS, AND ALL TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A-446, WITH A MINIMUM YIELD OF 33 KSI FOR 18 GAGE AND 50 KSI FOR 16 GAGE, FOR STUDS AND 33 KSI FOR RUNNERS, BRIDGING, END CLOSURES AND ACCESSORIES.
5. ALL WELDS SHALL BE ACCOMPLISHED USING 1/8" AWS TYPE 6013 OR 7014 ROD WITH A WELDING HEAT OF 60 TO 110 AMPERES DEPENDING ON THE GAGE OF MATERIAL AND THE FIT OF THE PARTS. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
6. ADEQUATE LATERAL BRACING MUST BE PROVIDED DURING CONSTRUCTION.
7. UNLESS NOTED OTHERWISE, METAL FRAMING MEMBERS AT LOAD BEARING, SHEAR WALLS AND EXTERIOR WALLS SHALL BE 18 GAGE FOR STUDS, 16 GAGE FOR TOP AND BOTTOM RUNNER.
8. RUNNER TRACKS: INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. UNLESS INDICATED OTHERWISE, SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED, EXCEPT DO NOT EXCEED 24" OC SPACING FOR NAIL OR POWER-DRIVEN FASTENERS, OR 16" OC FOR OTHER TYPES OF ATTACHMENT. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACK.
9. FASTENINGS: FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR BY WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. FASTENING OF PLYWOOD DIAPHRAGMS AND SILL PLATES SHALL BE AS INDICATED IN STRUCTURAL NOTES, AND DETAILED.

DRILL & EPOXY

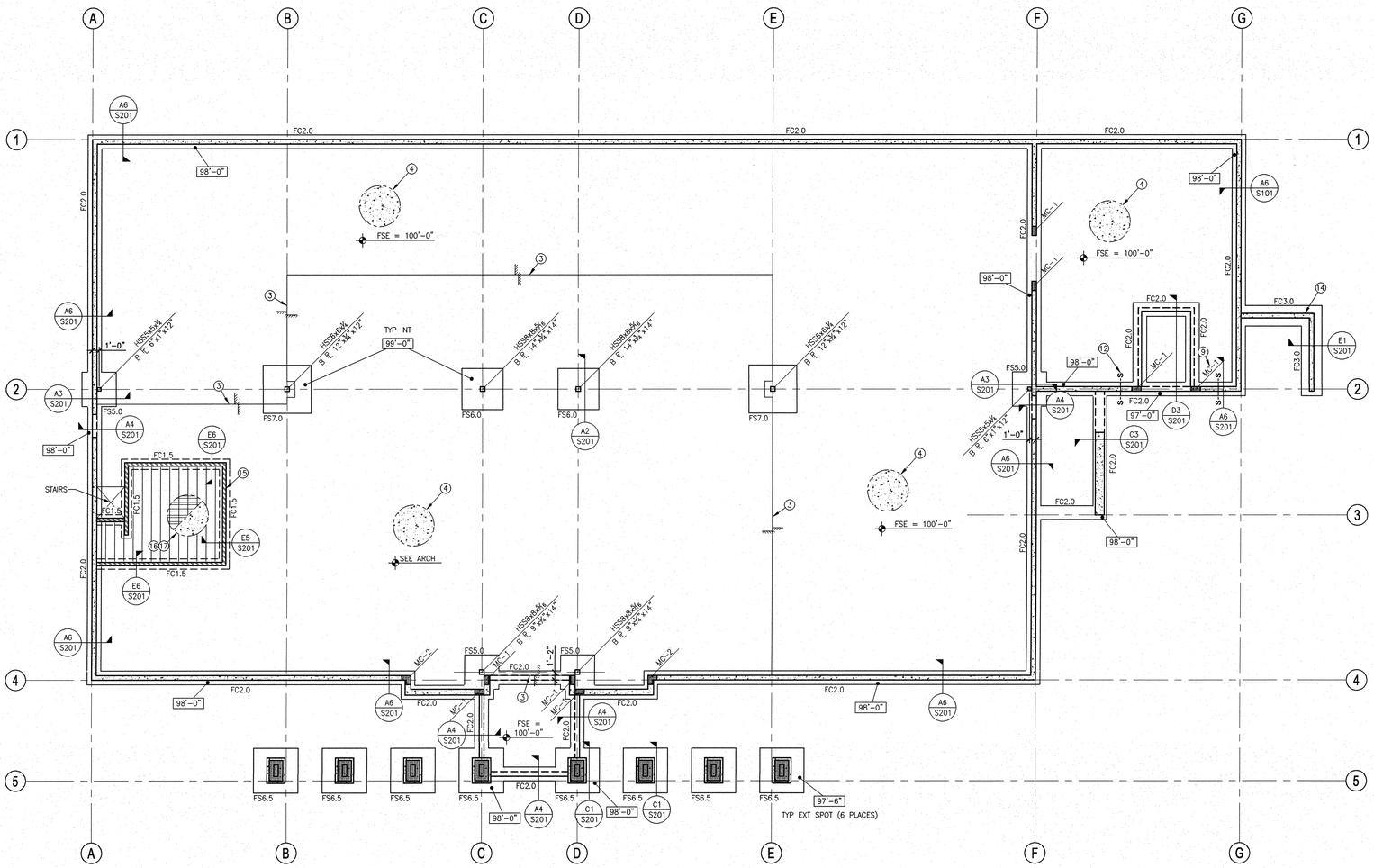
1. USE HILTI HIT RE 500 ADHESIVE SYSTEM OR EQUIVALENT FOR CONNECTIONS INTO EXISTING CONCRETE & HILTI HIT HY 150 OR EQUIVALANT FOR CONNECTIONS WITH SOLID GROUTED MASONRY.
2. USE HILTI HY20 ADHESIVE SYSTEM OR EQUIVALENT FOR ALL HOLLOW UNIT CMU CONNECTIONS AND UNREINFORCED MASONRY WALLS, INCLUDING MULTI-WYTHE WALLS.
3. TEN PERCENT OF ALL ANCHORS PLACED SHALL BE RANDOMLY TESTED TO 100% OF MANUFACTURER'S SPECIFIED ALLOWABLE LOAD. IF ANY ANCHOR FAILS IT SHALL BE REPLACED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER. IF AN ANCHOR FAILS, 100% OF ALL OTHER ANCHORS INSTALLED BY THAT SA

PLAN NOTES (FTG & FDTN):

◯ CIRCLED NOTES ARE KEYED ON PLAN.

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.

1. SEE STRUCTURAL NOTES ON **SHEET S001** FOR ADDITIONAL INFORMATION.
2. FINISH SLAB ELEVATION = 100'-0", UNLESS NOTED THUS: FSE=xxx'-xx" SLOPE UNIFORMLY TO FLOOR DRAINS.
3. SEE DETAIL **A1/S201** FOR TYPICAL STEP IN SLAB. **SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF STEPS.**
4. SLAB ON GRADE SHALL BE 5" CONCRETE OVER 4" FREE-DRAINING GRAVEL. REINFORCE SLAB WITH #4 @ 24" OC EA DIR.
5. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER STRUCTURAL NOTES. SEE DETAIL **B2/S201**.
6. SEE PLAN FOR FOOTING TYPE. SEE SCHEDULE **THIS SHEET** FOR FOOTING SIZE AND REINFORCEMENT.
7. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
8. SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
9. SEE DETAIL **D5/S201** FOR MASONRY COLUMN SCHEDULE INDICATING SIZE AND REINFORCEMENT.
10. SEE DETAIL **B1/S201** FOR CONTROL JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
11. SEE DETAILS **B3/S201** & **C2/S201** FOR TYPICAL CONCRETE AND MASONRY WALL REINFORCEMENT DETAILS.
12. SEE DETAIL **B4/S201** FOR TYPICAL STEP IN FOOTING.
13. FOUNDATION DESIGN INFORMATION WAS OBTAINED FROM THE SOILS REPORT PREPARED BY GSH GEOTECHNICAL CONSULTANTS, INC. ALL SITE PREPARATION, EXCAVATION, FILL, COMPACTION, AND PLACEMENT WORK PREFORMED SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE ABOVE REFERENCED REPORT.
14. SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
15. SEE DETAILS **D2, E3, E4, E5, & E6** ON **SHEET S201** FOR SMALL OVERBUILD OFFICE MEZZ FRAMING.
16. FLOOR SLAB SHALL BE A TOTAL OF 4" THICK (WITH STEEL DECK), LIGHT WEIGHT CONCRETE (110 PCF). REINFORCE SLAB WITH 6x6 – W1.4xW1.4 WWF IN ADDITION TO ANY MILD REINFORCEMENT SHOWN ON PLANS.
17. FLOOR DECK SHALL BE 1½" VERCO TYPE "B-FORMLOK", 22 GAUGE, GALVANIZED. MINIMUM DECK BEARING = 2". ANCHOR DECK TO SUPPORTING MEMBERS WITH #10 SELF DRILLING SCREWS @ 12" OC ALL DECK FLUTES. BUTTON PUNCH ALL DECK LAPS @ 36" OC.
18. SEE DETAILS **B5/S201** & **C5/S201** FOR REINFORCEMENT LAP SPLICE SCHEDULES.



LEGEND:

FCx.0, FSx.0, FRx.0/y.0	CONTINUOUS FOOTING, SPOT FOOTING TYPES RESPECTIVELY, SEE SCHEDULE
xx'-xx"	TOP OF FTG ELEVATION
	CONC SLAB ON GRADE
	BEAM
	JOIST
FCx.x	CONCRETE FOOTING & FDTN WALL
	CONC WALL
	RECESS IN CONC FDTN WALL
MC-#	MASONRY COLUMN IN WALL ABOVE
	STEEL COLS – TUBE
	STEEL STUD WALL

FOOTING SCHEDULE				
MARK	SIZE	REINFORCEMENT		NOTES
	WIDTH x THICK x LENGTH	LONGITUDINAL	TRANSVERSE	
FC1.5	1'-6" x 1'-0" x CONT	(3) #4	–	
FC2.0	2'-0" x 1'-0" x CONT	(3) #4	–	
FC3.0	3'-0" x 1'-0" x CONT	(4) #4	#4 @ 18"	
FS5.0	5'-0" x 1'-0" x 5'-0"	(5) #5	(5) #5	
FS6.0	6'-0" x 1'-0" x 6'-0"	(6) #5	(6) #5	
FS6.5	6'-6" x 1'-2" x 6'-6"	(7) #6	(7) #6	
FS7.0	7'-0" x 1'-2" x 7'-0"	(7) #6	(7) #6	

FOOTING NOTES:

1. PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
2. ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS5.0, MINIMUM, UNO ON PLANS.

B6 FOOTING SCHEDULE
3110.00 R-SCHFTGS FOOTING SCHEDULE SCALE: NONE

FOOTING & FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

CALDER RICHARDS CONSULTING ENGINEERS
634 SOUTH 400 WEST, SUITE 100, SALT LAKE CITY, UT 84101
T: 801.486.1895 F: 801.467.3495

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NEW SPRINGVILLE LIQUOR STORE

DEPT. OF ALCHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UT

FOOTING & FOUNDATION PLAN

FRANK N MURDOCK JR Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

PROFESSIONAL STRUCTURAL ENGINEER SHAUN A. PARKER # 191304 STATE OF UTAH

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONSTRUCTION DOCS
FILE NAME: S101.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 15, 2010

S101

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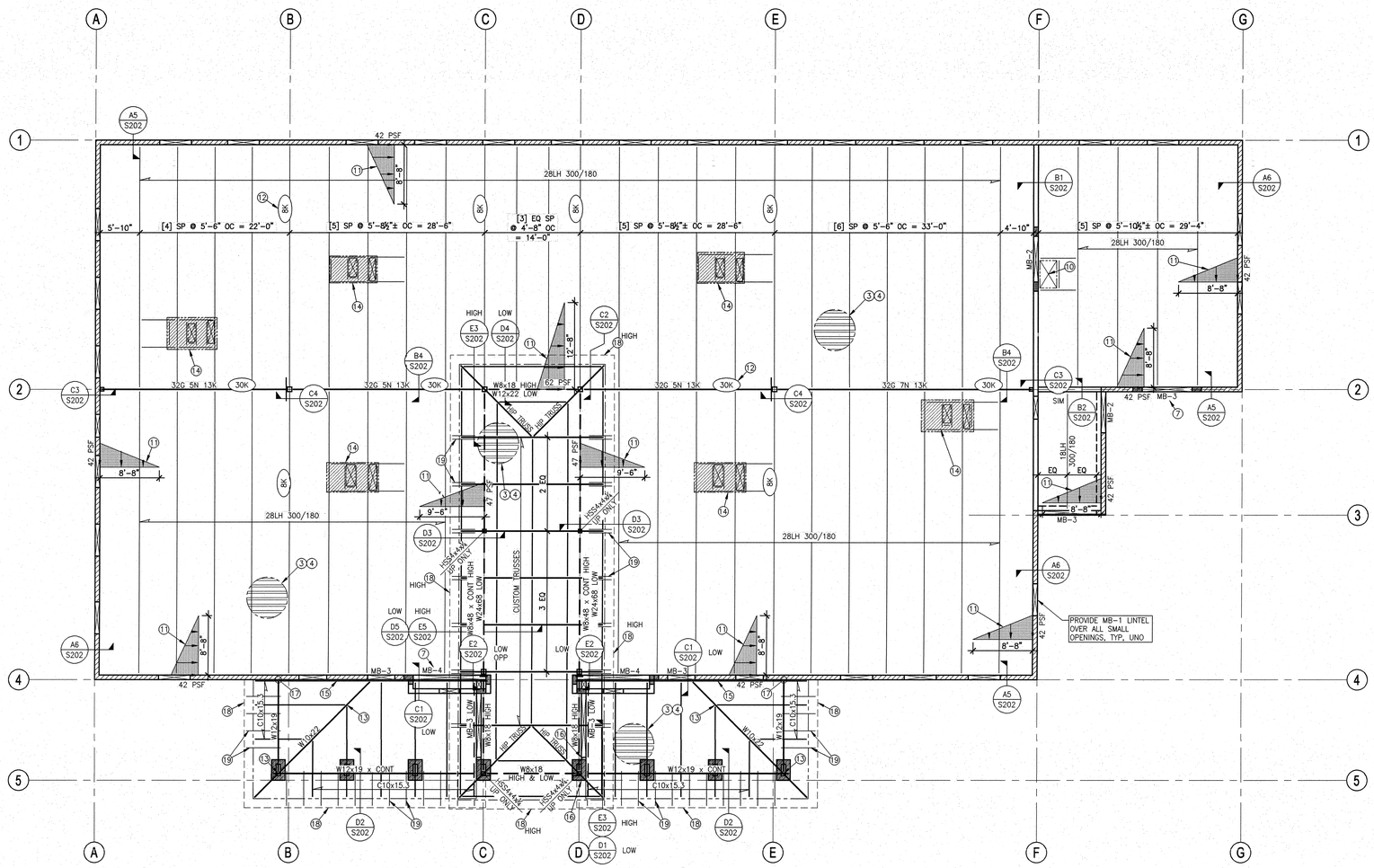
PLAN NOTES (ROOF FRAMING):

◯ CIRCLED NOTES ARE KEYED ON PLAN.

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.

1. SEE STRUCTURAL NOTES ON **SHEET S001** FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DECK BEARING ELEVATIONS, ADJUST TOP OF FRAMING TO PROVIDE UNIFORM SLOPE BETWEEN ELEVATIONS.
3. ROOF DECK SHALL BE 1½" VERCO TYPE HSB-36, 20 GAUGE, GALVANIZED, OR EQUIVALENT. PLACE DECK 3 SPANS CONTINUOUS, MINIMUM.
4. DECK ATTACHMENT AS FOLLOWS:
   A. DECK SPAN PERPENDICULAR TO SUPPORTS: (7) ¾"ø PUDDLE WELDS
   B. DECK SPAN PARALLEL TO SUPPORTS: ¾"ø PUDDLE WELDS @ 12" OC
   C. SEAMS: 1½" TOP SEAM WELDS OR VERCO PUNCH LOCK @ 12" OC
5. ALL CONTINUOUS DECK ANGLES TO BE FULL DEVELOPMENT BUTT WELDED AT SPLICES.
6. SEE **A2/S202** FOR TYPICAL ROOF OPENING DETAIL.
7. SEE DETAIL **B5/S202** FOR MASONRY BEAM SCHEDULE INDICATING SIZE & REINFORCEMENT. PROVIDE MB-1 LINTEL UNO ON PLAN.
8. SEE DETAIL **B1/S201** FOR CONTROL JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
9. SEE DTL **B3/S202** FOR DECK SUPPORT AT ROOF PIPE/DRAINS.
10. ROOF HATCH, SEE ARCHITECTURAL DRAWINGS. FRAME AROUND OPENING PER **A2/S202**.
11. DENOTES SNOW DRIFT LOADING ALONG WALL LINE. JOIST MFR TO DESIGN JOISTS FOR SNOW DRIFT LOAD IN ADDITION TO UNIFORM LOADS.
12. JOIST MANUFACTURER SHALL DESIGN TOP CHORD OF JOIST OR JOIST GIRDER FOR AXIAL SEISMIC LOADS IN ADDITION TO UNIFORM LOADS. SERVICE LEVEL TENSION & COMPRESSION AXIAL LOADS ARE SHOWN THUS: (X K)
13. SEE DETAIL **D8/S202** FOR TYPICAL BEAM TO BEAM OR CHANNEL TO BEAM CONNECTION.
14. JOIST MFR TO DESIGN JOISTS AND GIRDERS FOR MECH UNIT LOAD IN ADDITION TO TYPICAL UNIFORM LOADS. SEE MECH DRAWINGS FOR ALL MECH UNIT LOCATIONS, SIZES, AND WEIGHTS. SEE DETAIL **A2/S202** FOR PERIMETER SUPPORT AT ROOF FRAMING.
15. EPOXY ANCHOR EDGE CHANNEL TO SOLID GROUTED CMU WALL PER DTL **C1/S202**.
16. SEE ARCH DWGS FOR TOP OF CMU AT ENTRY.
17. POCKET END OF BEAM IN WALL PER DETAIL **D1/S202, SIM**.
18. APPROX EDGE OF GUTTER SYSTEM, SEE ARCH DWGS.
19. L2x GUTTER SUPPORTS, SEE DETAIL **D2/S202** FOR LOW CANOPY ROOF AND DETAIL **E5/S202** FOR HIGH ROOF.



LEGEND:

- STEEL ROOF DECK, W/ SPAN DIRECTION INDICATED
- BEAM
- JOIST
- SNOW DRIFT DIAGRAM (xx'-xx")
- MASONRY WALL (SHADED IF GROUTED SOLID)
- MB-# MASONRY BEAM
- STEEL COLS – TUBE

ROOF FRAMING PLAN

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

CALDER RICHARDS CONSULTING ENGINEERS
824 SOUTH 400 WEST, SUITE 100, SALT LAKE CITY, UT 84101
T: 801.466.1699 F: 801.467.3495

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FRANK N MURDOCK JR. Architect & Associates
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PROFESSIONAL STRUCTURAL ENGINEER SHAUN A. PACKER #191304 STATE OF UTAH

REVISION #	DATE:
1 PERMIT RESPONSE	04-22-10

DFCM PROJECT NO.: 08226030
CONSTRUCTION DOCS
FILE NAME: S102.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 15, 2010

S102

ROOF FRAMING PLAN

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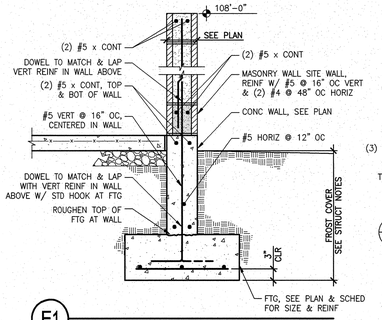
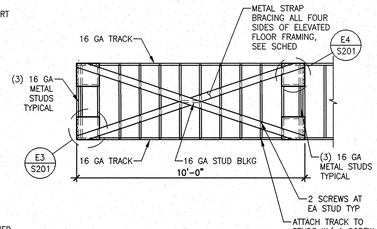
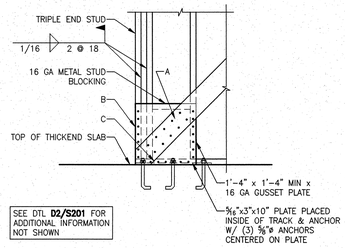


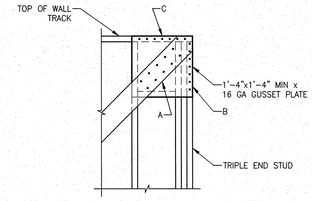
E1 SCALE: 3/4" = 1'-0"





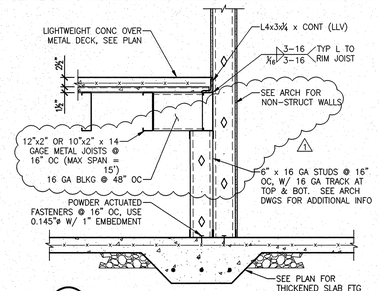
SEE DTL **D2/S201** FOR ADDITIONAL INFORMATION NOT SHOWN

E3 SCALE: 3/4" = 1'-0"

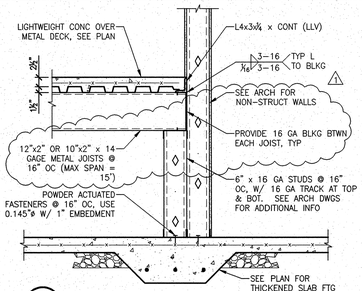


SEE DTL **D2/S201** FOR ADDITIONAL INFORMATION NOT SHOWN

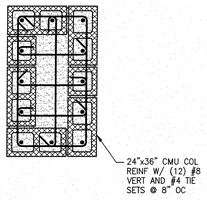
E4 SCALE: 3/4" = 1'-0"



E5 SCALE: 3/4" = 1'-0"



E6 SCALE: 3/4" = 1'-0"



MASONRY COLUMN AT SECTION A-A, COORD WITH PLAN FOR LOCATIONS

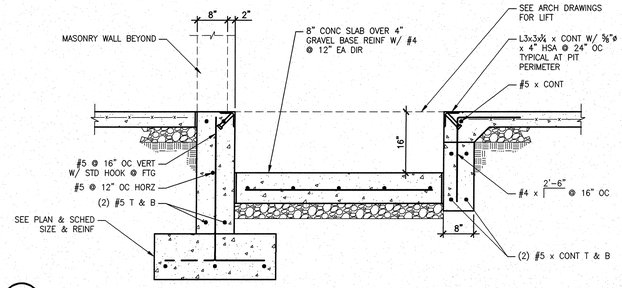
STRAP BRACE SCHEDULE

STRAP	FASTENERS (SEE DETAILS)		
	NUMBER OF #12 x 3/8" MIN SELF DRILLING SCREWS		
	(A) STRAP TO GUSSET ℄	(B) GUSSET TO EA END STUD	(C) GUSSET TO CONT TRACK
3" x 16 GA	6	6	6

NOTE:

3/16" FILLET WELDS MAY BE SUBSTITUTED FOR SCREWS. PROVIDE 1"x3/16" FILLET WELD FOR EACH SCREW.

D2 SCALE: 3/4" = 1'-0"



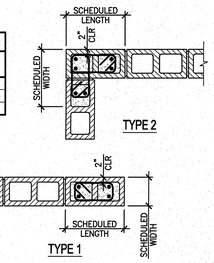
D3 SCALE: 3/4" = 1'-0"

MASONRY COLUMN SCHEDULE

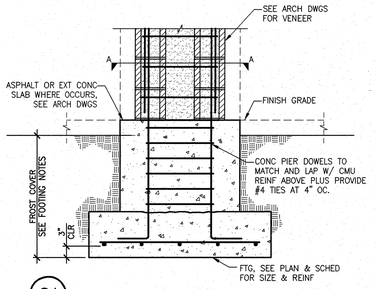
MARK	LENGTH	WIDTH	REINFORCEMENT		TYPE
			VERTICAL	HORIZONTAL TIES	
MC-1	16"	WALL	(4) #5	#3 @ 8" OC	1
MC-2	16"	16"	(6) #5	#3 @ 8" OC	2

MASONRY COLUMN NOTES:

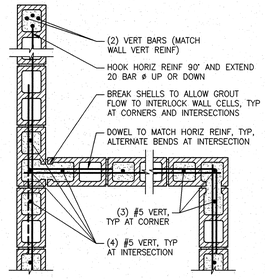
1. HORIZONTAL WALL REINFORCEMENT SHALL RUN CONTINUOUS THROUGH MASONRY COLUMNS.
2. GROUT ALL REINFORCED CELLS AND VOIDS SOLID.
3. MASONRY COLUMNS REINFORCING SHALL EXTEND FULL HEIGHT FROM ROOF DOWN TO FOUNDATION. DOWEL VERT REINF INTO FOUNDATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL COURSING ARRANGEMENTS.



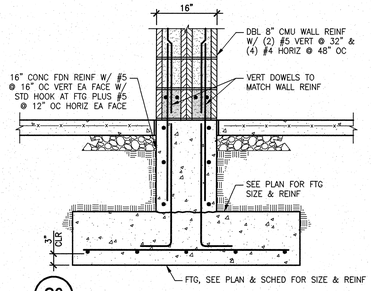
D5 5310.00 MASONRY COLUMN SCHEDULE SCALE: NONE



C1 3133_01 F-EXTCOL SCALE: 3/4" = 1'-0"

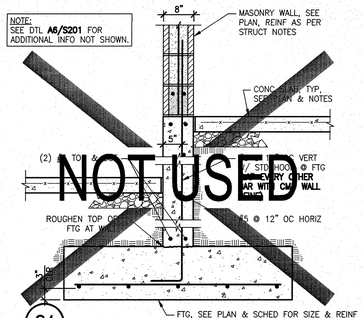


C2 5252_03 SCALE: 3/4" = 1'-0"



C3 SCALE: 3/4" = 1'-0"

NOTE:
SEE DTL **A6/S201** FOR ADDITIONAL INFO NOT SHOWN.



NOT USED

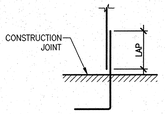
C4 3152_01 SCALE: 3/4" = 1'-0"

MASONRY REINFORCING LAP SPLICE SCHEDULE

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
MASONRY SINGLE MAT	1'-7"	2'-1"	2'-7"	4'-4"	5'-1"	6'-2"	7'-10"	MECH	MECH
MASONRY DOUBLE MAT	1'-7"	2'-4"	3'-6"	6'-10"	9'-1"	12'-5"	15'-4"	MECH	MECH

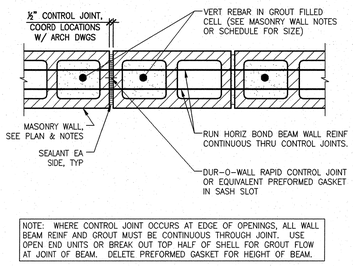
MASONRY REBAR SPLICE NOTES:

1. MECH = MECHANICAL SPLICE REQUIRED.
2. USE #6 BAR IN 10" OR LARGER WALLS ONLY.
3. f'm = 1500 PSI, fy = 60,000 PSI
4. DOUBLE MAT REINFORCEMENT SHALL HAVE 2" CLEARANCE BETWEEN FACE OF WALL AND EDGE OF VERTICAL BAR.



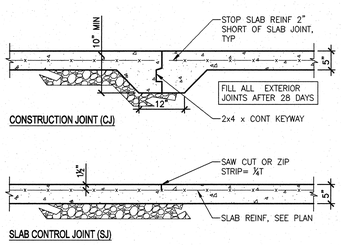
REBAR DEVELOPMENT DETAIL

C5 SCALE: NONE

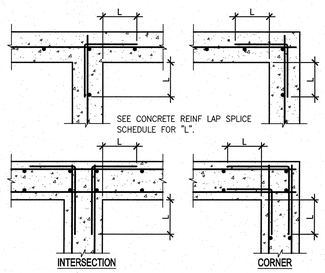


NOTE: WHERE CONTROL JOINT OCCURS AT EDGE OF OPENINGS, ALL WALL BEAM REINF AND GROUT MUST BE CONTINUOUS THROUGH JOINT. USE OPEN END UNITS OR BREAK OUT TOP HALF OF SHELL FOR GROUT FLOW AT JOINT OF BEAM. DELETE PREFORMED GASKET FOR HEIGHT OF BEAM.

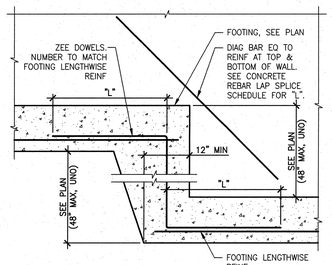
B1 TYP MASONRY CONTROL JOINT
5257_01 SCALE: NONE



B2 TYPICAL SLAB JOINT DETAILS
3600.02 SCALE: NONE



B3 WALL INTERSECTION DOWELS
3200.02 SCALE: NONE



B4 FOOTING STEP (CONC FDTN)
3231.02 SCALE: NONE

CONCRETE REINFORCING LAP SPLICE SCHEDULE

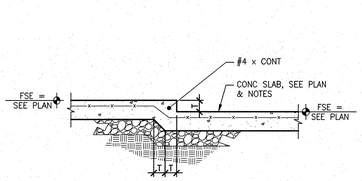
TENSION BARS "Ld"

BAR SIZE	f'c=3000psi				f'c=4000psi				f'c=5000psi				f'c=6000psi			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	16"	21"
#4	22"	29"	29"	38"	18"	25"	26"	33"	17"	22"	23"	30"	16"	20"	21"	27"
#5	28"	36"	37"	48"	24"	31"	32"	42"	21"	28"	24"	37"	20"	25"	26"	34"
#6	33"	43"	45"	58"	29"	37"	39"	50"	26"	33"	35"	45"	24"	30"	32"	41"
#7	48"	63"	63"	82"	42"	55"	55"	71"	37"	48"	48"	62"	34"	45"	45"	58"
#8	55"	72"	72"	93"	48"	63"	63"	81"	42"	55"	55"	71"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	71"	71"	92"	48"	62"	62"	80"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	103"	54"	70"	70"	90"	50"	65"	65"	84"
#11	78"	101"	101"	131"	68"	88"	88"	114"	60"	77"	77"	100"	55"	72"	72"	93"

NOTES:

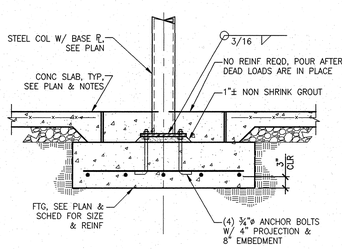
1. THE SCHEDULE SHOWN APPLIES TO REG WT CONCRETE WITH 60ksi GRADE REINFORCING BARS.
2. TOP BARS ARE HORIZONTAL BARS WITH 12" (OR MORE), OF FRESH CONCRETE CAST BELOW THE BARS.
3. CLASS "A" SPLICES SHALL BE USED WHEN 50% (OR LESS) OF BARS SPLICED WITHIN LAP.
4. CLASS "B" SPLICES SHALL BE USED FOR ALL ELSE, TYPICALLY WITH SHEARWALLS, COLUMNS, BEAMS & SLABS.
5. FOR EPOXY COATED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
   TOP BARS: Ld x 1.7
   REGULAR BARS: Ld x 1.5
6. FOR BUNDLED BARS, INCREASE LAP LENGTHS AS FOLLOWS:
   BUNDLED BARS, THREE OR LESS: Ld x 1.2
   BUNDLED BARS, FOUR OR MORE: Ld x 1.33
   INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
7. LAP SPLICES ARE NOT ALLOWED FOR TIES AND STIRRUPS

B5 3747_01 Reinforcing Lap Splice Schedule SCALE: NONE



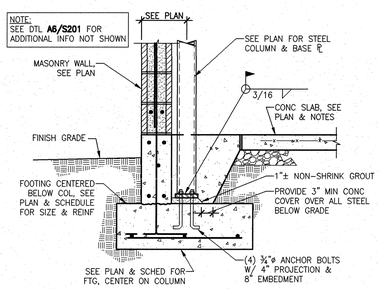
STEP IN SLAB ON GRADE

A1 SLAB STEP DETAIL
3677_05 C-SLBSTP SCALE: 3/4" = 1'-0"

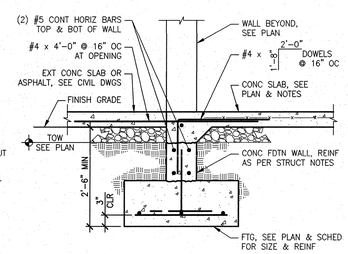


A2 4331.01 SCALE: 3/4" = 1'-0"

NOTE:
SEE DTL **A6/S201** FOR ADDITIONAL INFO NOT SHOWN



A3 3143_03 SCALE: 3/4" = 1'-0"



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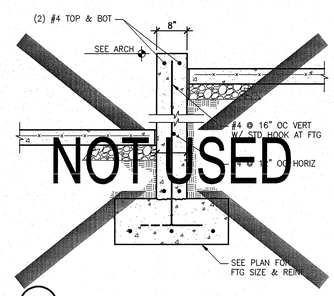

NOT USED

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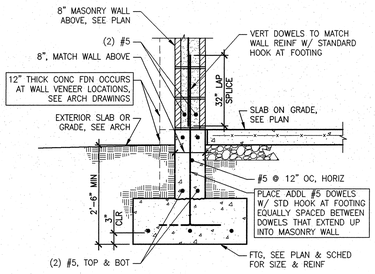

A6 SCALE: 3/4" = 1'-0"

CALDER RICHARDS CONSULTING ENGINEERS
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DEPT. OF ALCHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UT

FRANK N MURDOCK JR. Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220

STRUCTURAL DETAILS

PROFESSIONAL STRUCTURAL ENGINEER SHAUN A. PACKER 6480304 STATE OF UTAH

REVISION #	DATE:
1	PERMIT RESPONSE 04-22-10

DFCM PROJECT NO.: 08226030
CONSTRUCTION DOCS
FILE NAME: S201.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 15, 2010

S201

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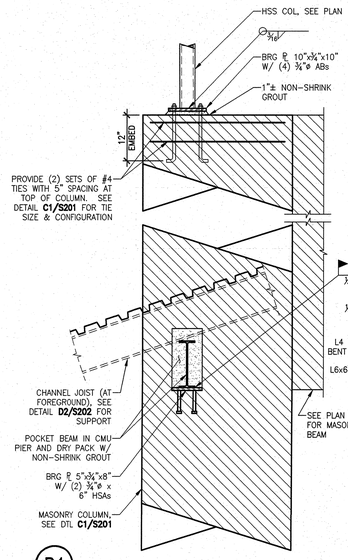

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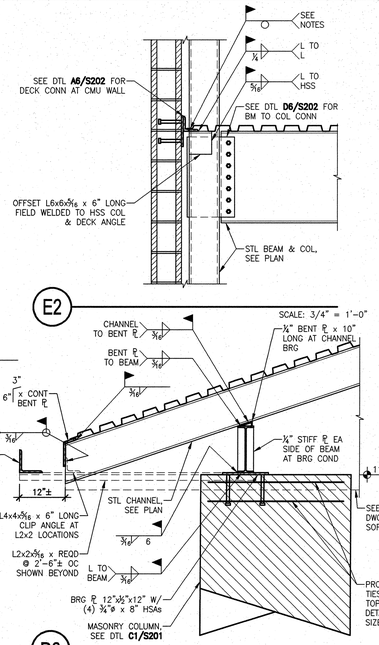
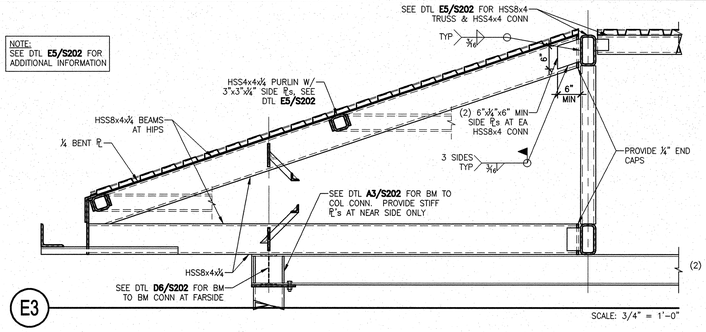


E2 4452_02 MR-OPNG3 SCALE: NONE

NOTE: SEE DTL E5/S202 FOR ADDITIONAL INFORMATION



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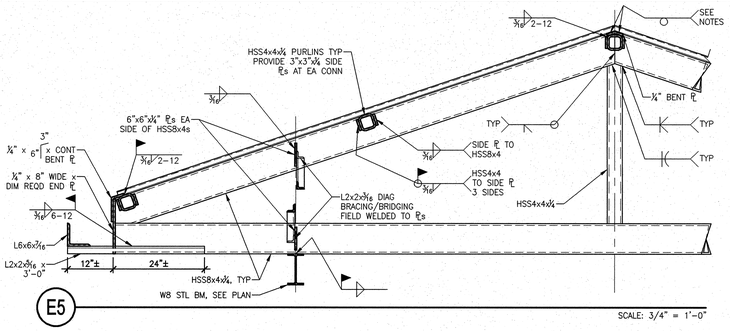

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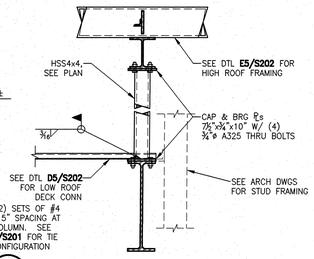

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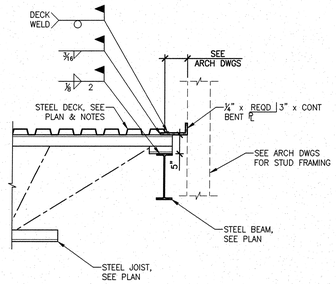

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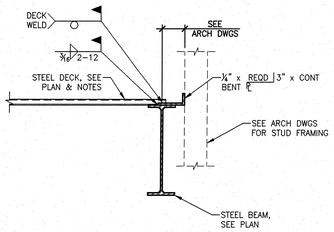
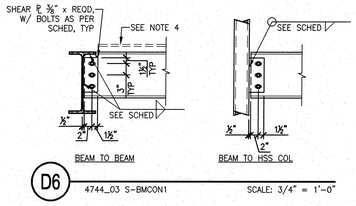


D5 SCALE: 3/4" = 1'-0"

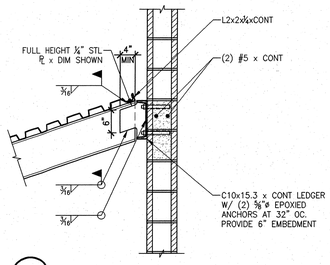
BOLT SCHEDULE		
BEAM SIZE	SHEAR BOLTS	WELD SIZE
W8, W10, C10	(2) ¾"ø	¼"
W12, W14	(3) ¾"ø	¼"
W16	(4) ¾"ø	¼"
W18	(5) ¾"ø	¼"
W24	(7) ¾"ø	¼"

BOLT SCHEDULE NOTES:

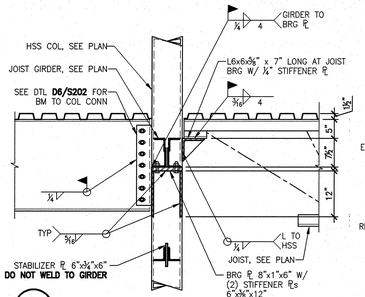
1. SEE FRAMING PLANS FOR BEAM AND/OR COL SIZES.
2. ALL BOLTS SHALL BE A325-N, UNO.
3. DECK AND JOIST NOT SHOWN.
4. BEAM MAY OCCUR HIGHER FOR DECK BEARING COORD W/ PLAN.
5. SLOPE BEAM OR CHANNEL MAY OCCUR, SEE PLAN.



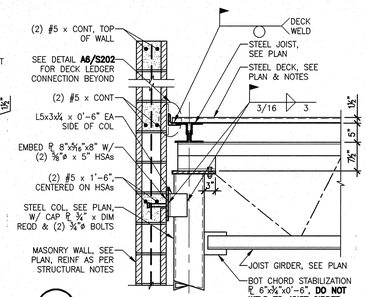
D6 4744_03 S-BMCON1 SCALE: 3/4" = 1'-0"



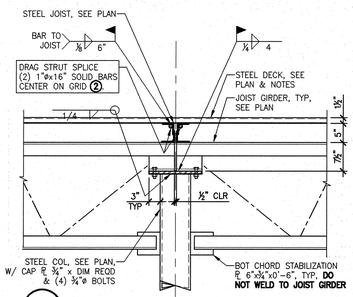
C1 SCALE: 3/4" = 1'-0"



C2 4345_04 SCALE: 3/4" = 1'-0"



C3 4345_01 SCALE: 3/4" = 1'-0"

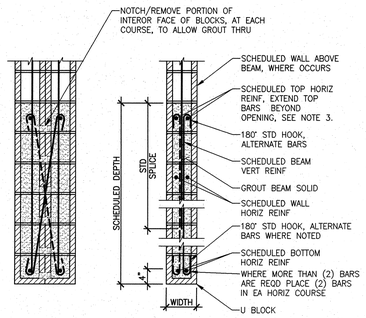


C4 4345_02 SCALE: 3/4" = 1'-0"

MASONRY BEAM SCHEDULE						
MARK	WIDTH	DEPTH	REINFORCEMENT			NOTES
			BOTTOM HORIZONTAL	TOP HORIZONTAL	VERTICAL	
MB-1	WALL	16"	(2) #5	_	MATCH WALL VERTS	TYPICAL, UNO
MB-2	WALL	24"	(2) #5	(2) #5	#4 x S @ 16"	
MB-3	WALL	32"	(2) #5	(2) #5	#4 x S @ 16"	
MB-4	WALL	48"	(2) #5	(2) #5	#4 x S @ 16"	

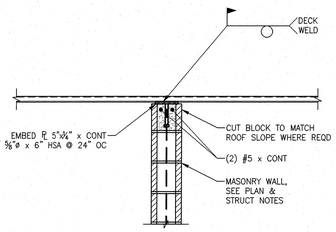
MASONRY BEAM NOTES:

1. VERTICAL WALL REINFORCEMENT (SIZE AND SPACING) SHALL BE USED, UNO. VERTICAL REINFORCEMENT ENDS WITH STD MASONRY HOOK AND LAP ABOVE BEAM. WHERE NO WALL OCCURS ABOVE BEAM OR LAP IS NOT POSSIBLE, PROVIDE 180° STD HOOK AT TOP.
2. GROUT BEAMS SOLID FOR DEPTH SHOWN IN SCHEDULE, PLUS AS PER DETAILS, STRUCURAL NOTES AND/OR WALL SCHEDULE.
3. TOP BARS SHALL EXTEND THE GREATER OF SUPPORTING COL LENGTH, 24", OR 48 BAR STD LAP BEYOND FACE OF SUPPORTS AND BE SPLICED WHEN NECESSARY AT MID SPAN. BOTTOM BARS SHALL EXTEND 24" INTO SUPPORTS AND BE SPLICED OVER SUPPORTS WHEN NECESSARY. WHERE THE EXTENSIONS NOTED CANNOT BE PROVIDED, HOOK BARS INTO SUPPORTS.
4. GROUT SIDES OF OPENING SOLID 1"/FT OF OPENING WIDTH, MINIMUM ONE 8" CELL FOR UP TO 8'-0" SPAN, (2) CELLS FOR UP TO 16'-0" SPAN, ETC, UNO. PROVIDE ONE VERTICAL BAR IN EACH GROUTED CELL. SEE PLAN AND SCHEDULE WHERE SPECIAL MASONRY COLS OCCUR AT JAMBS, BELOW BEAM BEARING OR OTHER LOCATIONS.
5. AT MECHANICAL OR OTHER OPENINGS IN WALLS USE MASONRY BEAMS OF SIMILAR SIZE AND REINFORCING AS SHOWN IN THOSE WALLS FOR EQUIVALENT WIDTH OPENINGS, UNO. NO MECHANICAL OR OTHER OPENINGS SHALL BE PLACED BELOW BEAM BEARING OR THROUGH SOLID GROUTED MASONRY BEAM DEPTH.
6. NO DUCTS, OPENINGS, OR PENETRATIONS SHALL OCCUR THROUGH BEAMS UNLESS NOTED ON STRUCTURAL DRAWINGS.
7. MASONRY WALLS ABOVE BEAMS, WHERE OCCUR SHALL HAVE MINIMUM REINFORCING AS PER STRUCTURAL NOTES, UNO.
8. REINFORCING INDICATED IN BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL HORIZONTAL AND VERTICAL REINFORCING.

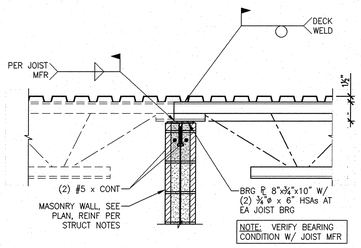


DBL WYTHE MASONRY BEAM DETAIL

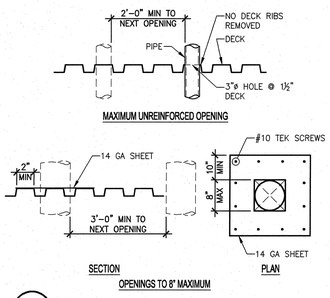
MASONRY BEAM DETAIL



B1 5246_06 SCALE: 3/4" = 1'-0"



B2 5245_04 SCALE: 3/4" = 1'-0"



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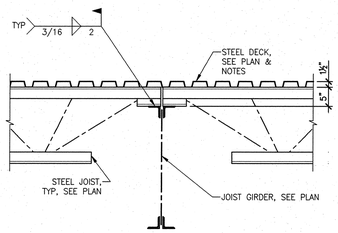
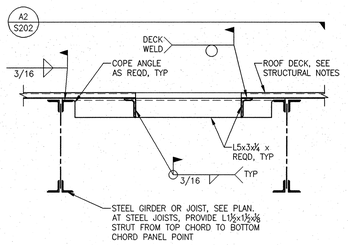


B4 4445_04 SCALE: 3/4" = 1'-0"

MASONRY BEAM SCHEDULE

B5 5410.00 SCALE: NONE



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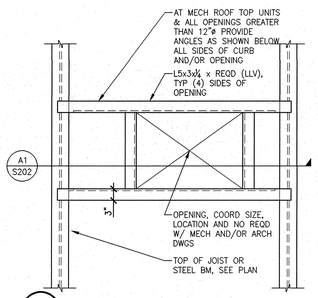
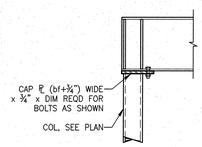
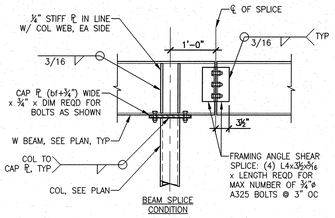
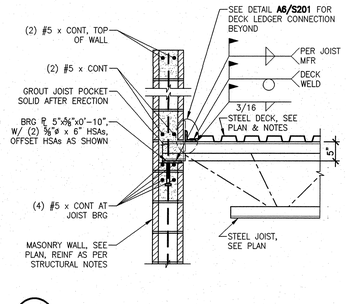


A2 4546_03 SCALE: NONE

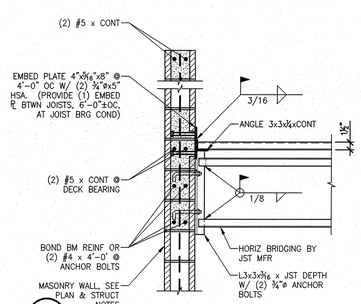




A3 4344_05 S-BMCON2 SCALE: 3/4" = 1'-0"



A5 4552.01 SCALE: 3/4" = 1'-0"



A6 5246_04 Bridging To Wall SCALE: 3/4" = 1'-0"

CALDER RICHARDS CONSULTING ENGINEERS
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STRUCTURAL DETAILS

PROFESSIONAL STRUCTURAL ENGINEER SHAUN R. PACKER # 6191304 STATE OF UTAH 3/15/10

REVISION #	DATE:

DFCM PROJECT NO.: 08226030
CONSTRUCTION DOCS
FILE NAME: S202.dwg
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: MARCH 15, 2010

S202

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PIPING LEGEND

GATE VALVE		CHILLED WATER SUPPLY	CWS
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	CWR
BALL VALVE		CONDENSER WATER SUPPLY	CS
BUTTERFLY VALVE		CONDENSER WATER RETURN	CR
MOTORIZED BUTTERFLY VALVE	M	HEATING WATER SUPPLY	HWS
HEAT TRACING		HEATING WATER RETURN	HWR
DEIONIZED WATER	DI	WATER TREATMENT	WT
CHECK VALVE (SWING OR LIFT AS REQ'D)		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE	S	HOT GAS	HG
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	RPBP
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	RL	PIPE CAP	
REFRIGERANT SUCTION	RS	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
PET COCK OR GAUGE COCK		TEMPERED WATER	T
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	
THERMOMETER		SANITARY SEWER ABOVE GRADE	
TEMPERATURE & PRESSURE TEST PLUG	T	SANITARY SEWER BELOW GRADE	
IN-LINE PUMP		DRAIN	D
FLOW SWITCH	F	ROOF DRAIN PIPING	RD
AQUASTAT	A	OVERFLOW DRAIN PIPING	OD
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	SD
VACUUM	V	STORM DRAIN PIPING BELOW GRADE	SD
FLOOR DRAIN		FIRE SERVICE	F
FLOOR SINK		NATURAL GAS	NG
HOT GAS BYPASS	HGBP	COMPRESSED AIR	CA
WALL CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	S
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	C
SNOWMELT PIPING @ 8" O.C.		GREASE WASTE	GW
ROOF DRAIN WITH SNOWMELT PIPING INSTALLED INSIDE PIPE		SUB-SLAB DRAINAGE	SSD
		FRENCH DRAIN OR RUBBLE DRAIN	FD

MECHANICAL LEGEND

RETURN OR EXHAUST DUCT DOWN	
RETURN OR EXHAUST DUCT UP	
SUPPLY AIR DUCT DOWN	
SUPPLY AIR DUCT UP	
SPIN-IN FITTING W/MVD	
FLEXIBLE DUCT	
CEILING SLOT DIFFUSER	
CEILING DIFFUSER	
CEILING EXHAUST GRILLE	
CEILING GRILLE	
ACCESS PANEL	
MANUAL VOLUME DAMPER	
MOTORIZED DAMPER	M
CEILING MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.	OBD
WALL MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.	OBD
DUCT TRANSITION WITH MIN. LENGTH INDICATED	24"
FIRE DAMPER	F
COMBINATION FIRE/SMOKE DAMPER	FS
SMOKE DAMPER	S
THERMOSTAT OR TEMP SENSOR	T
POINT OF CONNECTION TO EXISTING	
DETAIL TAG	DETAIL NO. / DRAWING NO.
KEYED NOTE	NOTE NO.
SECTION CUT LINE	SECTION NO. / DRAWING NO.
CONTROL TRANSFORMER	TRX
ROUTE DUCT THROUGH JOISTS	RTJ
DUCT ELBOW W/ TURNING VANES OR RADIUS ELBOW	
DIRECTION OF AIRFLOW BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED	

GENERAL NOTES

1. INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL.
2. (E) INDICATES EXISTING. (N) INDICATES NEW MATERIAL.
3. COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
4. THIS CONTRACTOR SHALL NOT SHUT-OFF/ PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONAL.
5. ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 2.0 LBS/CU FT. FIBERGLASS DUCT WRAP. ALL RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER. TRIM AND SEAL JOINTS W/ MYLAR LINING. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 10 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. MEDIUM PRESSURE FLEXIBLE DUCT TO BE INSULATED, RATED FOR 6" W.C. AND SHALL BE STRECHED OUT TO PREVENT ANY KINKS OR OFFSETS (3 FT. MAX. LENGTH).
6. DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
7. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL ELECTRICAL ARCHITECTURAL AND STRUCTURAL MEMBERS.
8. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING MECHANICAL CONDITIONS.
9. THIS CONTRACTOR SHALL USE SMACNA STANDARDS FOR HIGH PRESSURE DUCT CONSTRUCTION OF SUPPLY DUCTWORK UPSTREAM OF VAV BOX - SEAL CLASS "A". ALL OTHER DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - SEAL CLASS "B".
10. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL CURRENT LOCAL CODES.
11. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.
12. ALL VAV BOXES AND DIFFUSERS MUST BE BALANCED PER PLAN. PROVIDE BALANCE REPORT TO ENGINEER.
13. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
14. M.C. IS TO REAL ALL KEYED NOTES ON ALL SHEETS BEFORE SUBMITTING BID.
15. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL PLUMBING AND MECHANICAL SYSTEMS. (NO MECHANICAL OR PLUMBING SYSTEMS SHALL BE SUPPORTED DIRECTLY FROM ROOF DECK.)

PLUMBING FIXTURE CONNECTION SCHEDULE

	DESCRIPTION	CONNECTION SIZE				SPECIFICATIONS
		COLD WATER	HOT WATER	WASTE	VENT	
WC-1	WATER CLOSET (HANDICAP)	1½"	NA	4"	3"	K-4302, SEAT: 1655/C, FLUSH VALVE: ZURN ZR-6000XL-WS1 (INSTALL FLUSH HANDLE TO BE ON OPEN SIDE)
U-1	WALL MOUNTED URINAL (ADA) AUTOMATIC FLUSH VALVE	¾"	N/A	2"	1½"	URINAL: KOHLER DEXTER MODEL K-5016-ET ELONGATED URINAL WITH TOP ¾" SPUD 1.0 GPF. FLUSH VALVE: KOHLER MODEL: K-10961 BATTERY POWERED. MOUNT AT 17" A.F.F.
L-1	LAVATORY	½"	½"	1½"	1¼"	KOHLER: GREENWICH WALL MOUNT K-2031-N W/ ACCESSORY MODEL #1005 FOR HANDICAP INSTALLATION & K-8998 TRAP FAUCET: SYMMONS ULTRA SENSE S-6000-G W/ GRID DRAIN POWER HYDROGUARD SERIES 480 TEMPERING VALVE.
HB-1	HOSE BIBB	¾"	N/A	N/A	N/A	WOODFORD: MODEL 74P-¾
FD-1	FLOOR DRAIN	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 2005 w/ A05NB NICKEL/BRONZE STRAINER AND TRAP PRIMER
FS-1	FLOOR SINK	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 3140-12-Y W/ NICKEL/BRONZE TOP/ ⅓ GRATE AND TRAP PRIMER
SC-1	SILLCOCK	¾"	N/A	N/A	N/A	J. R. SMITH 5509QT (w/ INTEGRAL VACUUM BREAKER AND STAINLESS STEEL BOX)
WCO-1	WALL CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4530
FCO-1	FLOOR CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4023
RD-1	ROOF DRAIN	N/A	N/A	SEE PLANS	N/A	J.R. SMITH 1010Y - C - R - CI DOME PROVIDE CAST IRON DOME.
OD-1	OVERFLOW DRAIN	N/A	N/A	SEE PLANS	N/A	J.R. SMITH 1080Y - C - R - CI DOME PROVIDE CAST IRON DOME.
DSN-1	DOWNSPOUT NOZZLE	N/A	N/A	SEE PLANS	N/A	J.R. SMITH 1770
WHA	WATER HAMMER ARRESTORS	AS REQUIRED	AS REQUIRED	N/A	N/A	J. R. SMITH 5010
SS-1	SERVICE SINK	¾"	¾"	3"	2"	KOHLER: K-6710 w/ K-9142 STRAINER FAUCET: CHICAGO FAUCET MODEL # 897-RCF
S-1	SINK (SS 2 COMPARTMENT)	½"	½"	2"	1½"	JUST: DLX-1829-A-GR WITH J35 STRAINER FAUCET: CHICAGO FAUCET MODEL # 786-SUE2KCP PROVIDE W/ GARBAGE DISPOSAL UNIT GDU-1: ISE MODEL PRO 77, 1 hp, 115 V, 10, 9.0 amps
EWC-1	ELECTRIC WATER COOLER	½"	N/A	1½"	1¼"	SUNROC: WUC4-8-BL (BI LEVEL FOUNTAIN) 7.8 gph, 4.5 FLA, 415 Watts, 120v - 1ø, R-134A
IMB-1	ICE MAKER BOX	½"	N/A	N/A	N/A	OATEY MODEL 38608 W/ 1/4 TURN VALVE AND WATER HAMMER ARRESTOR

NOTE: ALL PLUMBING FIXTURES ARE TO HAVE ¼ TURN STOPS INSTALLED (NO EXCEPTIONS TAKEN).

ROOF TOP UNIT SCHEDULE RTU-

PLAN CODE	UNIT TONAGE	TOTAL CFM	EXTERNAL STATIC PRESSURE	DESIGN CRITERIA			LEAVING AIR TEMP	EER	SENSIBLE COOLING CAPACITY (MBH)	HEATING CAPACITY		ELECTRICAL			DIMENSIONS (in.)			OPER. WEIGHT (lbs)	MANUFACTURER & MODEL NO	REMARKS
				OUTSIDE AIR TEMP.	RETURN AIR DB	RETURN AIR WB				INPUT (MBH)	OUPUT (MBH)	VOLTS PHASE	MCA	MOP	Length	Width	Height			
RTU-1 & RTU-2	8.5	3,600	0.6	95	80	62	54.3/53.2	10.2	75.92	166.40	134.78	208 / 3	45.1	60	89	54	55	1,550	TRANE YSC102A3EHA	SEE GENERAL NOTES
RTU-3 thru RTU-6	5	2,000	0.6	95	80	62	54.3/53.2	10.2	47.41	108.16	86.53	208 / 3	31.5	45	70	45	51	800	TRANE YSC060A3EHA	SEE GENERAL NOTES

GENERAL NOTES:

1. VALUES ARE RATED AT SITE ELEVATION.
2. PROVIDE 10% MINIMUM OUTSIDE AIR SET POINTS.
3. PROVIDE 24" HIGH SELF LEVELING FACTORY CURB.
4. PROVIDE ALL WITH CENTRIFUGAL POWER EXHAUST AND ECONOMIZER AS REQUIRED PER THE CURRENT I.E.C.C..
5. PROVIDE FACTORY 2 lb. GAS REGULATOR AND CODE REQUIRED GAS CONNECTION AND GAS TRAIN.
6. PROVIDE COMPRESSOR CRANKCASE HEATER.
7. ALL ROOFTOP UNITS MUST MEET CURRENT ASHRAE ENERGY CODE 90.1 STANDARDS - (R-410).
8. PROVIDE FACTORY MOUNTED HACR CIRCUIT BREAKER ON 3 TON AND LARGER. PROVIDE FIELD MOUNTED FUSED DISCONNECT ON 2.5 TON AND SMALLER.
9. PROVIDE 7 DAY (AUTO CHANGE OVER) PROGRAMMABLE T-STAT WITH 100 Ft. OF PLENUM RATED T-STAT WIRE.
10. PROVIDE FACTORY MOUNTED CONV. OUTLET TO BE FIELD WIRED.
11. PROVIDE FACTORY SMOKE DETECTOR IN RETURN OPENING OF UNIT AS REQUIRED BY CODE WITH REQUIRED INTERLOCKING WIRING.
12. PROVIDE COIL GUARDS.
13. PROVIDE TXV's ON UNITS 10 TON & SMALLER.
14. IF UNIT DOES NOT HAVE AN ECONOMIZER, UNIT SHALL BE PROVIDED WITH LOW AMBIENT KIT.

AIR DEVICE SCHEDULE

GRILLE NUMBER — GRILLE CFM

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	MAX. CFM	MANUFACTURER & MODEL NO.	REMARKS
1	SUPPLY	8"ø	See Plans	30	315	PRICE 8"ø / RCD / B12	
2	SUPPLY	10"ø	See Plans	30	490	PRICE 8"ø / RCD / B12	
3	SUPPLY	12"ø	See Plans	30	630	PRICE 8"ø / RCD / B12	
4	SUPPLY	6"ø	See Plans	30	235	PRICE 6"ø / 12" x 12" / SCDA / 3 / B12	
5	SUPPLY	8"ø	See Plans	30	400	PRICE 8"ø / 24" x 24" / SCDA / 3 / B12	
6	SUPPLY	10"ø	See Plans	30	545	PRICE 10"ø / 24" x 24" / SCDA / 3 / B12	
7	EXHAUST	6"ø	See Plans	16	180	PRICE 6"ø / 12" x 12" / PDDR / 2 / B12	PROVIDE OBD
8	RETURN	22" x 22"	See Plans	10	1340	PRICE 22" x 22" / 24" x 24" / PDDR / 3 / B12	PROVIDE W/SOUND BOOT
9	SUPPLY	16" x 6"	Side Wall	30	415	PRICE 16" x 6" / 5200 / F / L / A / B12	

EXHAUST FAN SCHEDULE EF-

PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV.	ESP	FAN RPM	MOTOR			SONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)	MANUFACTURER / MODEL	ACCESSORIES
						WATTS	H.P.	VOLTAGE & PHASE							
EF-1 thru EF-3	SEE PLANS	ROOF CENTRIGAL	100	.25"	970	NA	1/6	120 / 1	5.2	BACK DRAFT	Switch with lights	12" x 12"	65	PENN BARRY DOMEX DX080B	PROVIDE FACTORY 14" CURB

PUMP SCHEDULE P-

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR		MANUFACTURER & MODEL NO.	COMMENTS
					H.P.	VOLTAGE & PHASE		
P-1	CIRCULATOR	8	26	3250	1/8	120 / 1	TACO 0013	BRONZE FITTED

GAS FIRED UNIT HEATER SCHEDULE UH-

PLAN CODE	HEATING MBH OUTPUT REQ'D. ELEVATION	MANUFACTURER & MODEL NO.	SPECIFIED UNIT CAP.		CFM (STD.)	THROW AT 12' MOUNTING (FT.)	ELECTRICAL		FLUE SIZE / TYPE	SIZE				REMARKS
			INPUT (G.L.) (MBH)	OUTPUT (G.L.) (MBH)			VOLT/ PHASE	FAN H.P.		LENGTH	WIDTH	HEIGHT	WEIGHT	
UH-1	80	MODINE PD 100	100	80	1,460	41	120 / 1	1/12	6"ø / "B"	30"	18"	29"	110 lbs.	W/T-STAT, PIPE HANGER KIT AND FACTORY 2LB. GAS TRAIN.

THIS APPLIES TO ALL:

ALL EQUIPMENT, SUPPLIES AND INSTALLION SHALL COMPLY TO DFCM STANDARDS. THE DFCM STANDARDS CAN BE FOUND AT WWW.DFCM.UTAH.GOV. IT IS OUR KNOWLEDGE THAT THESE DRAWINGS MEET THE DFCM STANDARDS, BUT DOES NOT RELIEF CONTRACTOR FROM REFEREEING AND FOLLOWING DFCM STANDARDS.

ELECTRIC WATER HEATER SCHEDULE EWH-

PLAN CODE	INPUT (KW)	RECOVERY RATE (GAL/HR)	TEMP RISE (°F)	DIMENSIONS	ELECTRICAL		MANUFACTURER & MODEL NO.	REMARKS
					VOLT & PHASE	AMPS		
EWH-1	25.00	19	80	26" x 18" x 21"	208 / 1	10.4	BRADFORD WHITE WH20L655	WITH AMTROL ST-5 EXPANSION TANK

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NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR. ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220

MECHANICAL SCHEDULES AND GENERAL NOTES

Patrick T. Caldwell
Registered Professional Engineer
3/31/2010
323760
State of Utah

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By: kagdox; Mar 31, 2010 - 8:34 AM; Date Plotted: Apr 1, 2010 - 8:45 AM; X:\Projects\2008\08226.00 01- Liquor Store - Springville\M0.1 - 08226.00.dwg

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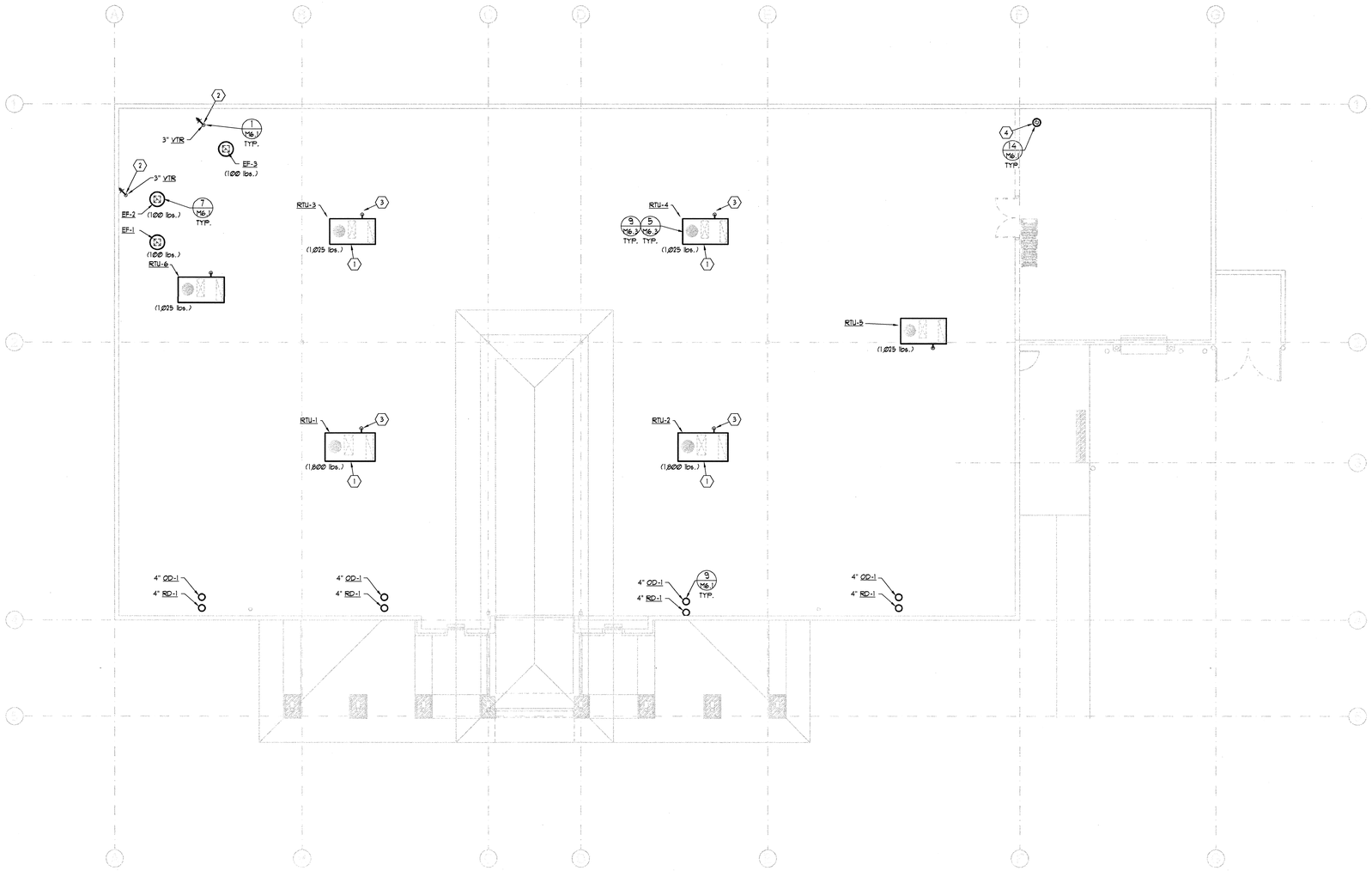

KEYED NOTES:

1. COORDINATE WITH ARCH's PLANS FOR FINAL LOCATIONS OF ALL EQUIPMENT. (TYPICAL).
2. VENT THOUGH ROOF. WATER PROOF AND SEAL ALL PENETRATIONS AS REQUIRED. (TYPICAL).
3. COORDINATE ALL OTHER TRADES AND DROP GAS PIPING DOWN THROUGH ROOF AND SEAL PENETRATION WATER TIGHT. PROVIDE GAS CONNECTION TO ROOF TOP UNIT AS REQUIRED TO MEET CODE. (TYPICAL).
4. 6" TYPE "B" FLUE RISER UP THROUGH ROOF. SEAL WATER TIGHT.

GENERAL NOTES:

1. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
2. PROVIDE CODE REQUIRED DIRT LEG AT ALL GAS CONNECTIONS TO MECHANICAL EQUIPMENT.
3. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL PLUMBING AND MECHANICAL SYSTEMS.

1 / M1.1 **MECHANICAL ROOF PLAN**

SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

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MECHANICAL ROOF PLAN

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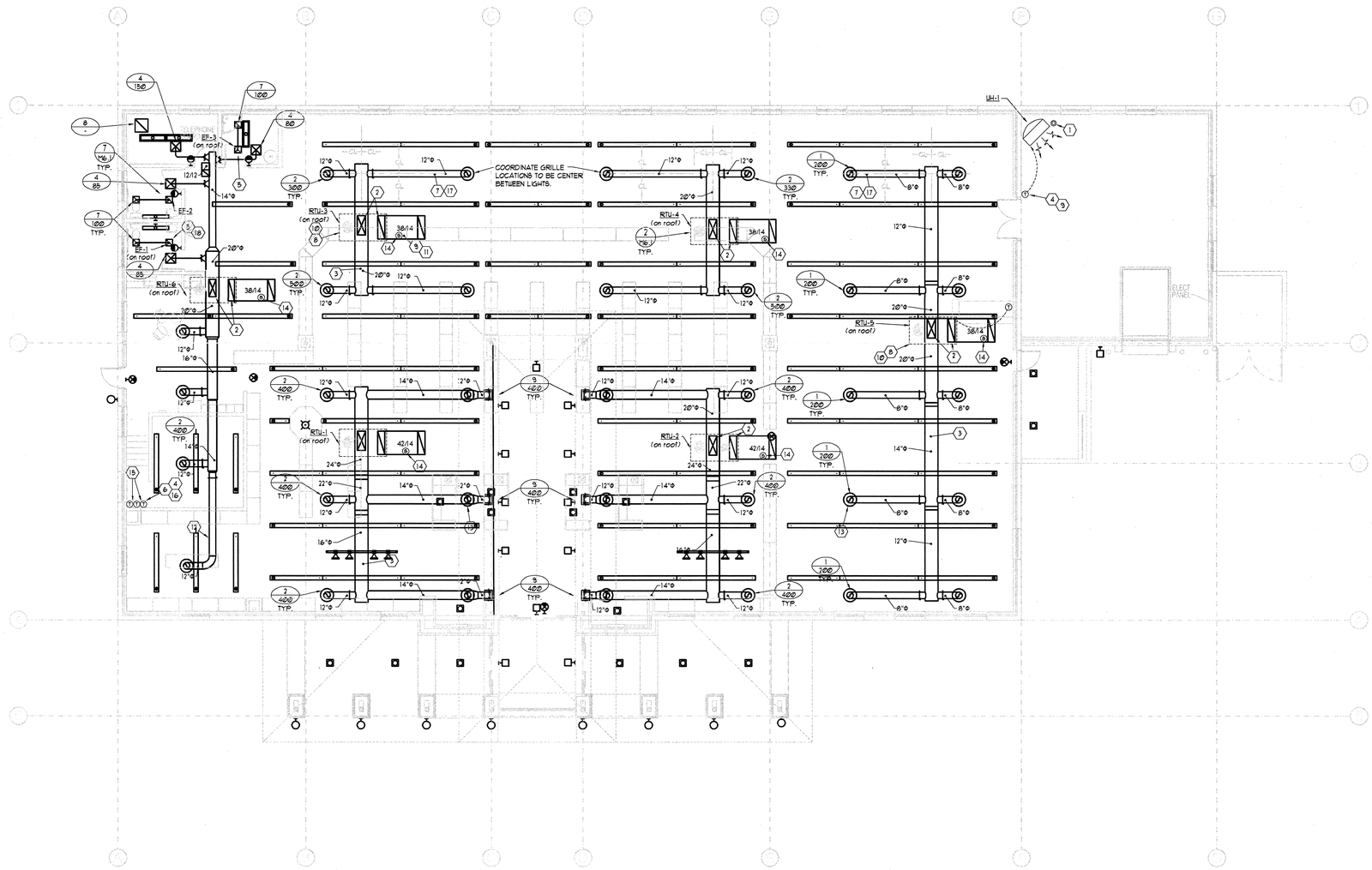

1 M2.1 MECHANICAL FLOOR PLAN

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

6' 0 4' 8' 12' 16'

KEYED NOTES:

1. 6" TYPE 'B' FLUE UP THROUGH ROOF SEE DETAIL 6/M6.2
2. PROVIDE AND INSTALL DUCTWORK DROPS DOWN FROM UNIT SIZED FULL SIZE OF UNITS OPENINGS. COORDANITE UNIT LOCATIONS AS REQUIRED TO DROP DOWN BETWEEN STRUCTURE. (TYPICAL)
3. COORDINATE WITH ROOF STRUCTURE AND INSTALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. ROUTE MAINS UP IN BETWEEN JOIST. (TYPICAL) OFFSET AND TRANSITION AS REQUIRED.
4. COORDINATE WITH ARCH'S PLANS FOR FINAL ELEVATIONS AND LOCATIONS OF ROBERTSHAW 9715I T-STAT'S. (TYPICAL)
5. 12" x 12" RISER TO EXHAUST FAN ON ROOF. (TYPICAL)
6. PROVIDE LOCKING COVER FOR T-STAT.
7. ROUTE DUCTWORK THOUGH WEBBING OF STRUCTURE. (TYPICAL)
8. OUTLINE OF RTU ON ROOF ABOVE.
9. HOLD DUCTWORK TIGHT TO BOTTOM OF STRUCTURAL. (TYPICAL)
10. COORDINATE WITH ARCH/STRUCTURAL PLANS AS TO FINAL LOCATION/OREIENTATION OF RTU'S. (TYPICAL)
11. PROVIDE 10' OF LINED RETURN AIR DUCTWORK WITH OPENING TURNED UPWARDS ON END.
12. COORDINATE WITH ARCH/STRUCTURAL PLANS TO ROUTE DUCTWORK INTO CEILING OF WINE ROOM.
13. COORDINATE WITH ARCH'S PLANS FOR FINAL ELEVATION OF GRILLES. (TYPICAL).
14. PROVIDE TEMPERATURE SENSOR FOR SPACE TEMP. CONTROL IN RETURN AIR DUCTWORK WITH ADJUSTABLE T-STAT ON WALL BY OFFICE AS SHOWN. (TYPICAL).
15. PROVIDE ROBERTSHAW 9715I T-STAT WITH LOCKING COVER FOR UNITS WITH TEMPERATURE SENSORS AT THIS LOCATION. (TYPICAL).
16. PROVIDE ROBERTSHAW 9715I T-STAT WITH LOCKING COVER. (TYPICAL).
17. M.C. IS NOT TO SUPPORT ANYTHING FROM ROOF DECK UNLESS ENGINEERING IS PROVIDED. SEE DETAILS 1 & 3/M6.4 AND 2, 3 & 11/M6.3. (TYIPICAL).
18. PROVIDE WALL SWITCH WITH 15 MINUTE AUTO DELAY FOR EXHAUST FANS. (TYPICAL)

GENERAL NOTES:

1. ALL EXPOSED DUCTWORK OR DUCTWORK ABOVE GYP. CEILINGS SHALL BE HARD DUCTED.
2. USE YOUNG GEAR TYPE BALANCING REGULATORS ABOVE ALL GYP. BOARD CEILINGS.
3. ALL MEDIUM PRESSURE DUCTWORK SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE. OFFSET AND TRANSITION AS REQUIRED.
4. OFFSET AND TRANSITION ALL DUCTWORK AND PIPING AS REQUIRED.
5. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
6. PROVIDE ACCESS PANELS AS REQUIRED.
7. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
8. CONTRACTOR TO COORDINATE ALL FINAL LOCATION OF T-STAT'S WITH OWNER AND ARCHITECT.
9. CONTRACTOR TO PROVIDE AND INSTALL SOUND BOOTS ON ALL RETURN AIR GRILLES. BOOTS TO BE PAINTED FLAT BLACK.
10. CONTRACTOR TO COORDINATE GRILLES WITH REFLECTED CEILING GRID.
11. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.
12. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRAINT PROVISIONS OF IBC 1613.1 FOR ALL MECHANICAL SYSTEMS.

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HVAC FLOOR PLAN

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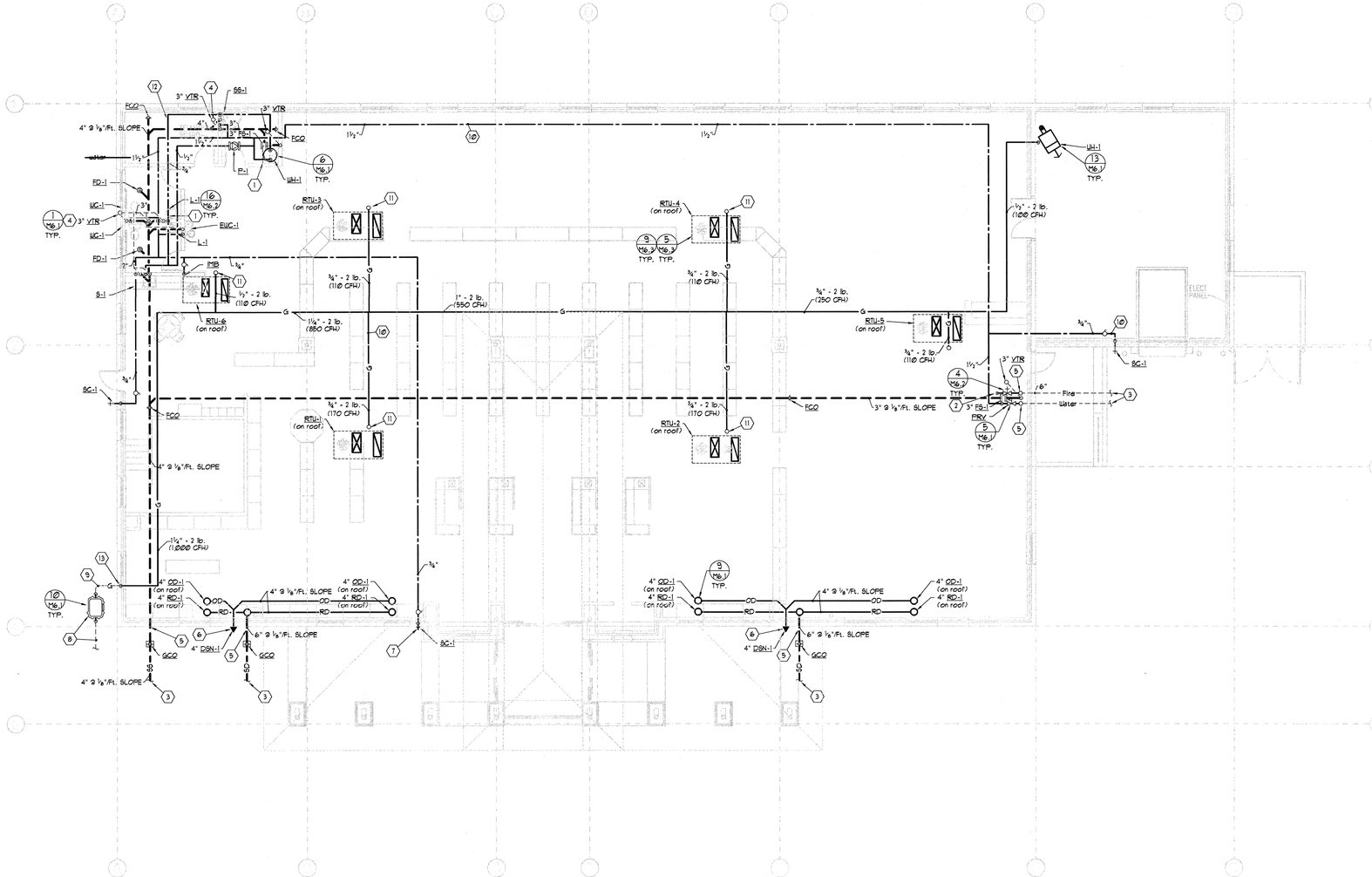

KEYED NOTES:

1. M.C TO PROVIDE 4" THICK HOUSE KEPING UNDER ALL MECHANICAL EQUIPMENT. (TYPICAL).
2. FIRE RISER AND FIRE DEPARTMENT CONNECTION WITH HORN, BELL AND ALARMS. ALL FIRE PROTECTION TO BE SIZED AND PROVIDED BY F.P.C.
3. M.C. TO COORDINATE WITH CIVIL PLANS FOR UTILITY LOCATIONS AND EXTEND ALL UTILITIES 5 Ft. OUTSIDE OF BLDG. (TYPICAL).
4. VENT THOUGH ROOF. WATER PROOF AND SEAL ALL PENETRATIONS AS REQUIRED. (TYPICAL).
5. M.C. TO COORDINATE WITH CIVIL AND ARCH's PLANS FOR FINIAL ELEVATIONS AND PROVIDE CODE REQUIRED COVERAGE OVER ALL UTILITY PIPING ENTRY AND LEAVING BLDG. (TYPICAL).
6. 4" RISERS TO ROOF AND OVERFLOW DRAINS ON ROOF. OFFSET AS REQUIRED TO DROP PIPING DOWN TIGHT ALONG AND ROUTE TO OVERFLOW DRAIN OR DROP BELOW SLAB AND OFFSET AS REQUIRED TO ROUTE AROUND FOOTING AND EXIT BLDG. COORDINATE WITH ARCH's PLANS FOR FINAL ELEVATIONS OF DOWN SPOUT NOZZLES. (TYPICAL).
7. COORDINATE WITH ARCH's PLANS FOR FINAL ELEVATION OF SILL COCKS. (TYPICAL).
8. YARD GAS PIPING AND GAS METER BY LOCAL GAS COMPANY. METER SIZE REQUIREMENTS - 1,000 CFH @ 2 lb. PIPING SIZED FOR TOTAL LENGHT OF 250 Ft.
9. M.C. TO ROUTE PIPING INTO BUILDING AS REQUIRED AS REQUIRED BY CODE, COORDINATE WITH LOCAL GAS COMPANY.
10. ROUTE PIPING UP IN JIOST SPACE BUT DON'T SUPPORT PIPING FROM ROOF DECK. SEE DETAILS 1/M6.3, 4/M6.4 & 7/M6.4. (TYPICAL).
11. RISE GAS PIPING UP THOUGH ROOF AND CONNECT TO MECHANICAL EQUIPMENT AS REQUIRED BY CODE. (TYPICAL).
12. M.C. TO COORDINATE WITH ELECTRICAL SO AS NOT TO ROUTE PIPING OVER ELECTRICAL PANELS. (TYPICAL)
13. RISE GAS UP IN WALL AT THIS POINT.
14. PROVIDE BOLLARD AT THIS LOCATION FOR PROTECTION OF GAS METER.

GENERAL NOTES:

1. CONTRACTOR TO COORDINATE WITH ELECTRICAL AND DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
2. ALL PIPING SHALL BE HELD TIGHT TO BOTTOM OF STRUCTURE.
3. OFFSET AND TRANSITION PIPING AS REQUIRED.
4. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
5. PROVIDE ACCESS PANELS AS REQUIRED.
6. CONTRACTOR TO COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
7. PROVIDE 4" DEEP SEAL TRAPS WITH TRAP PRIMERS ON ALL FLOOR DRAINS & FLOOR SINKS.
8. ALL FIRE PROTECTION PIPING SHALL BE SIZED BY FIRE PROTECTION CONTRACTOR.
9. ALL WASTE PIPING TO BE SLOPED AS REQUIRED CODE.
10. PROVIDE CODE REQUIRED DIRT LEG AT ALL GAS CONNECTIONS TO MECHANICAL EQUIPMENT.
11. ALL DRAINAGE PIPING 3" AND SMALLER SHALL SLOPE @ ¼"/Ft. SLOPE AND PIPING 4" AND LARGER SHALL SLOPE @ ⅛"/Ft. SLOPE.
12. SEISMIC REQUIREMENTS SHALL MEET SEISMIC RESTRANT PROVISIONS OF IBC 1613.1 FOR ALL PLUMBING SYSTEMS.

1 / M2.2 **PLUMBING FLOOR PLAN**

SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

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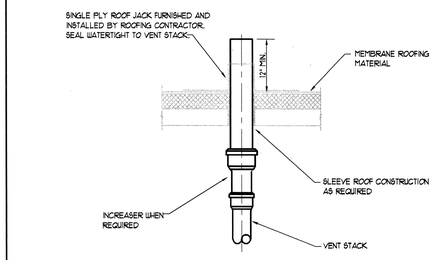
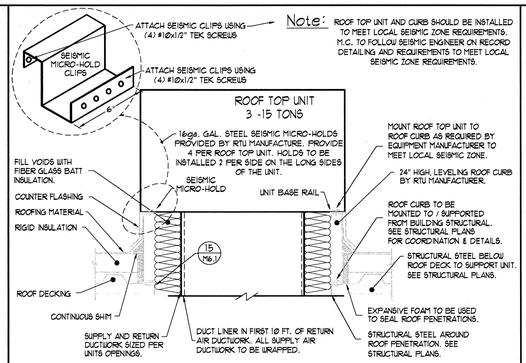


1 M6.1 VENT THROUGH ROOF DETAIL

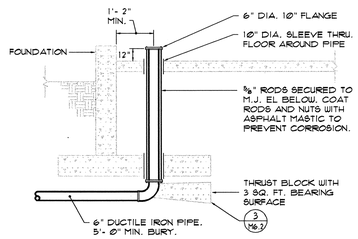
NOT TO SCALE



Note: ROOF TOP UNIT AND CURB SHOULD BE INSTALLED TO MEET LOCAL SEISMIC ZONE REQUIREMENTS. M.C. TO FOLLOW SEISMIC ENGINEER ON RECORD DETAILING AND REQUIREMENTS TO MEET LOCAL SEISMIC ZONE REQUIREMENTS.

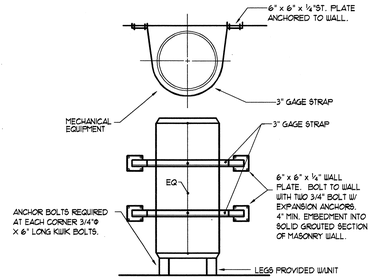
2 M6.1 ROOF TOP UNIT CURB DETAIL

NOT TO SCALE



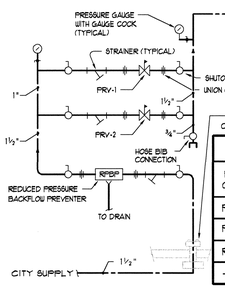
3 M6.1 WATER ENTRY DETAIL

NOT TO SCALE



4 M6.1 FLOOR MOUNTED EQUIPMENT ANCHOR & STRAP DETAIL

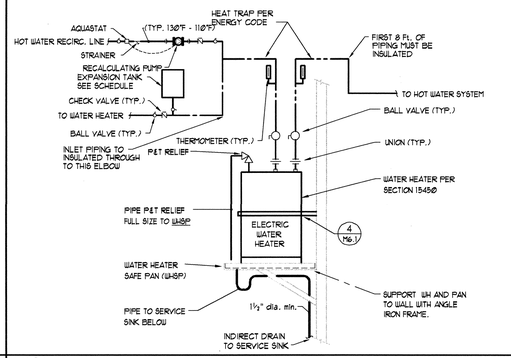
NOT TO SCALE



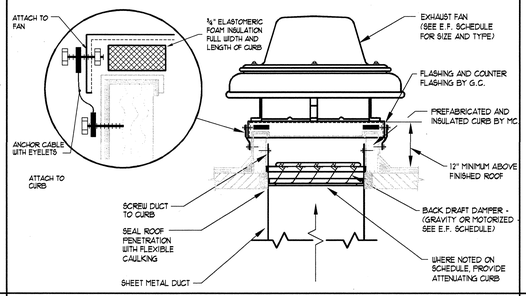
PRV STATION SCHEDULE				
PLAN CODE	SIZE	GPM	PRESSURE FALL OFF (PSIG)	MANUFACTURER & MODEL NO.
PRV-1	3/4"	10	10	WATTS 223S
PRV-2	1 1/4"	40	15	WATTS 223S
RPBP	1 1/2"	50	NA	WATTS 009M1QT
-	-	-	-	-

5 M6.1 PRV STATION DETAIL

NOT TO SCALE

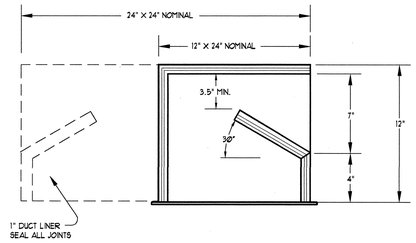


6 M6.1 ELECTRIC WATER HEATER PIPING DETAIL (WALL HUNG)



7 M6.1 EXHAUST FAN AND CURB DETAIL

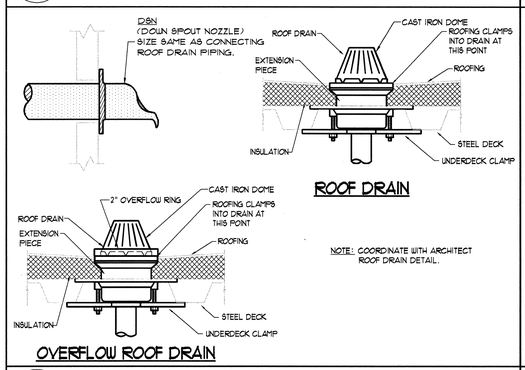
NOT TO SCALE



TYPICAL OF ALL RETURN AIR GRILLES

8 M6.1 RETURN AIR GRILLE SOUND BOOT DETAIL

NOT TO SCALE



ROOF DRAIN

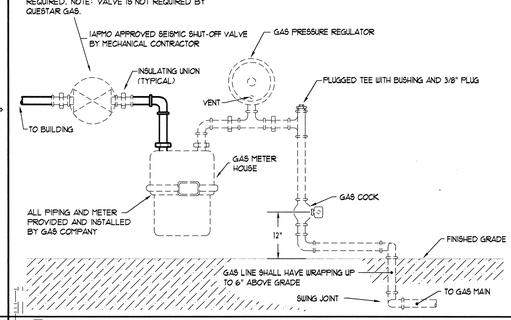
OVERFLOW ROOF DRAIN

NOTE: COORDINATE WITH ARCHITECT ROOF DRAIN DETAIL.

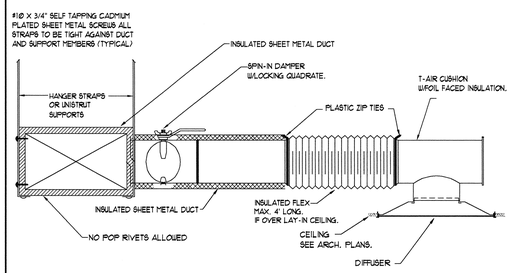
9 M6.1 ROOF DRAIN & OVERFLOW ROOF DRAIN DETAIL

NOT TO SCALE

CONTRACTOR IS TO COORDINATE WITH OWNER AND OWNER'S INSURANCE COMPANY ON INSTALLATION OF IAPMO APPROVED SEISMIC SHUT-OFF VALVE IS REQUIRED. NOTE: VALVE IS NOT REQUIRED BY QUESTAR GAS.

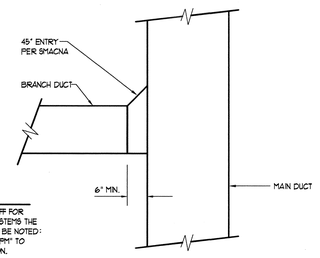


10 M6.1 GAS METER SERVICE CONNECTION DETAIL



11 M6.1 DIFFUSER MOUNTING DETAIL

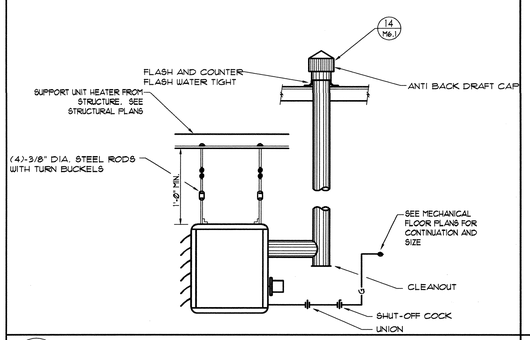
NOT TO SCALE



NOTE:
WHEN USING THIS TAKE-OFF FOR HIGH VELOCITY DUCT SYSTEMS THE ENTRY OPENING SHOULD BE NOTED: "NOT TO EXCEED 1500 FPM" TO AVOID NOISE GENERATION.

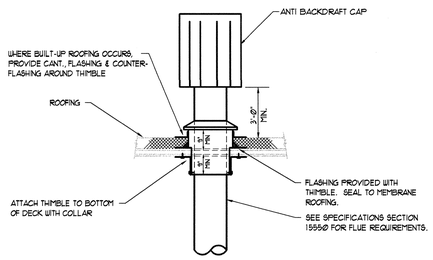
12 M6.1 TYPICAL DUCT TAKEOFF DETAIL

NOT TO SCALE



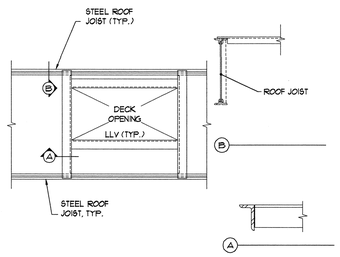
13 M6.1 GAS FIRED UNIT HEATER DETAIL

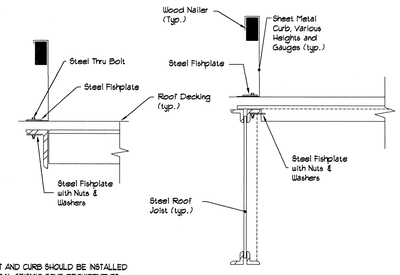
NOT TO SCALE



14 M6.1 FLUE ROOF PENETRATION DETAIL

NOT TO SCALE





Note: ROOF TOP UNIT AND CURB SHOULD BE INSTALLED TO MEET LOCAL SEISMIC ZONE REQUIREMENTS. M.C. TO FOLLOW SEISMIC ENGINEER ON RECORD DETAILING AND REQUIREMENTS TO MEET LOCAL SEISMIC ZONE REQUIREMENTS.

15 M6.1 ROOF CURB SEISMIC DETAIL (See Structural Plan for final detailing)

NOT TO SCALE

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
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NEW SPRINGVILLE LIQUOR STORE
DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

MECHANICAL DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
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Patrick T. Cantrell
Registered Professional Engineer
323760
State of Utah

REVISION #	DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: 08226.00
PLOT SCALE: AS SHOWN
DRAWN BY: AJG
CHECKED BY: KAG
DATE: 3-31-10

M6.1

Ely, Kathleen, Mar 31, 2010 - 4:34 AM Date Plotted: Apr 1, 2010 - 8:50 AM X:\Projects\2008\08226.00\01- Liquor Store - Springville\M6.1 - 08226.00.dwg

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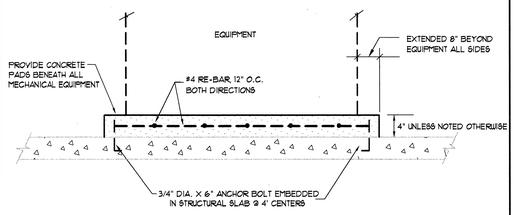
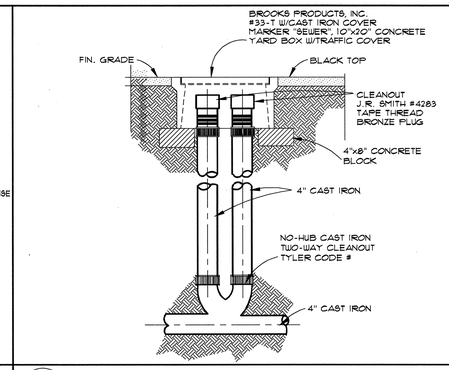


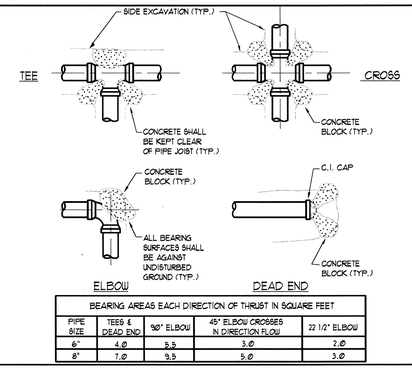
1 / M6.2 HOUSEKEEPING PAD DETAIL

NOT TO SCALE



2 / M6.2 TWO - WAY CLEANOUT DETAIL

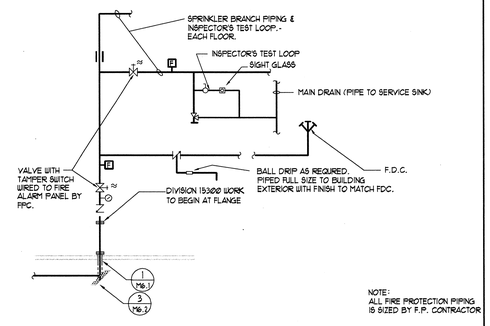
NOT TO SCALE



BEARING AREAS EACH DIRECTION OF THRUST IN SQUARE FEET				
PIPE SIZE	TEES & DEAD END	90° ELBOW	45° ELBOW CROSSES IN DIRECTION FLOW	22 1/2° ELBOW
6"	4.0	5.5	3.0	2.0
8"	7.0	9.5	5.0	3.0

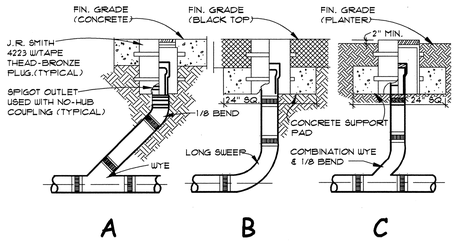
3 / M6.2 THRUST BLOCK DETAIL

NOT TO SCALE



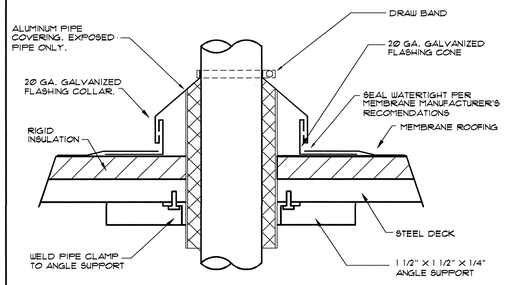
4 / M6.2 TYPICAL FIRE SPRINKLER SERVICE ENTRY DETAIL

NOT TO SCALE



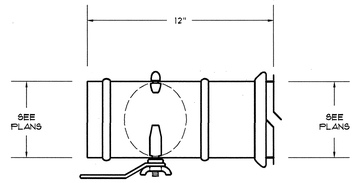
5 / M6.2 SURFACE/YARD CLEANOUT DETAIL

NOT TO SCALE



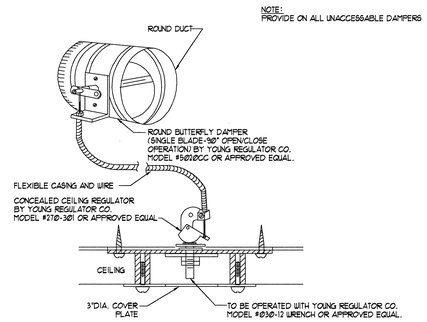
6 / M6.2 PIPE PENETRATION THRU ROOF DETAIL

NOT TO SCALE



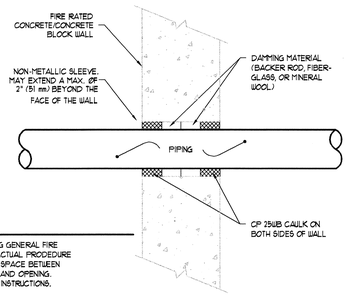
7 / M6.2 TYPICAL MANUAL VOLUME DAMPER DETAIL

NOT TO SCALE



8 / M6.2 DAMPER AND REGULATOR DETAIL

NOT TO SCALE

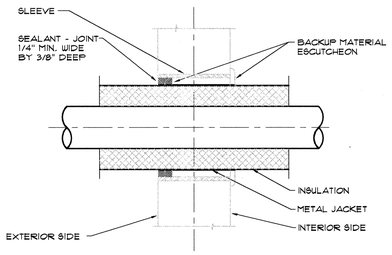


NOTE !!!

TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

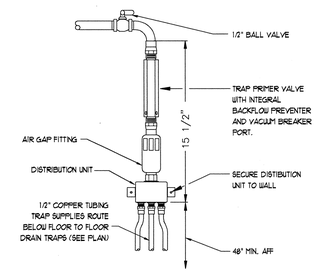
9 / M6.2 FIRESTOP thru. CONCRETE WALL

NOT TO SCALE



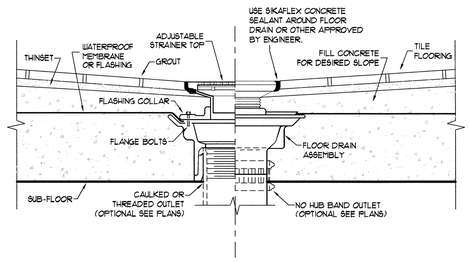
10 / M6.2 PIPE SLEEVE FOR INSULATED PIPE THRU WALL

NOT TO SCALE



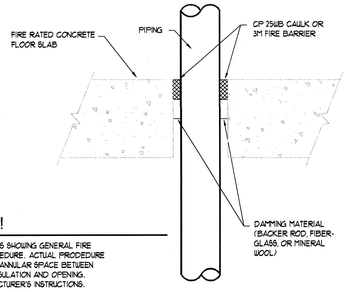
11 / M6.2 TRAP PRIMER DETAIL

NOT TO SCALE



12 / M6.2 TYPICAL FLOOR DRAIN / SINK DETAIL

NOT TO SCALE

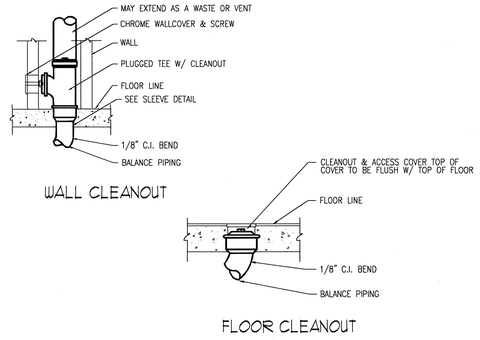


NOTE !!!

TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

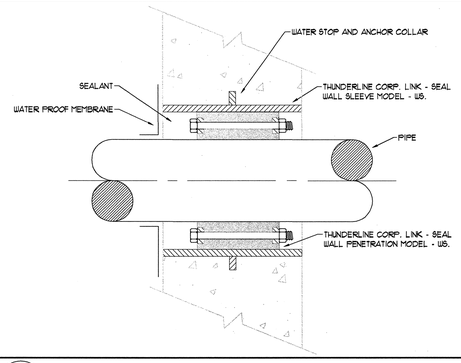
13 / M6.2 FIRESTOP thru. CONCRETE FLOOR

NOT TO SCALE



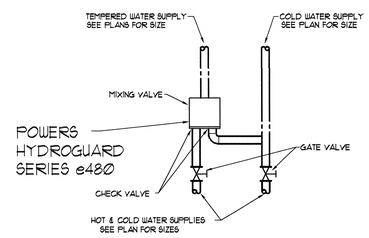
14 / M6.2 CLEANOUT DETAIL

NOT TO SCALE



15 / M6.2 FOUNDATION WALL SLEEVE DETAIL

NOT TO SCALE



16 / M6.2 MIXING VALVE DETAIL

NO SCALE

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
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NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

MECHANICAL DETAILS

FRANK N MURDOCK JR ■ Architect & Associates
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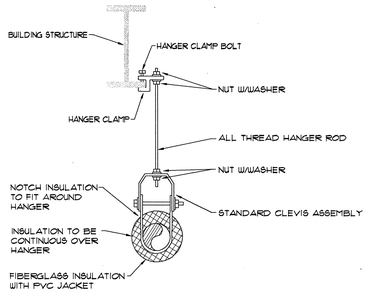
Patrick T. Cancelli REGISTERED PROFESSIONAL ENGINEER 323760 State of Utah

REVISION #	DATE:

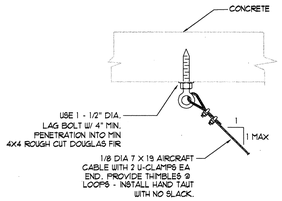
DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: 08226.00
PLOT SCALE: AS SHOWN
DRAWN BY: AJG
CHECKED BY: KAG
DATE: 3-31-10

M6.2

By: kaglaos, Mar 31, 2010 - 4:10 AM, Date Plotted: Apr 1, 2010 - 8:50 AM X:\Projects\2008\08226.00\01-Liquor Store - Springville\M6.2 - 08226.00.dwg

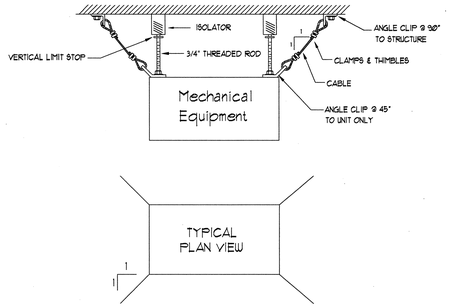


1 M6.3 PIPE HANGER DETAIL
NOT TO SCALE



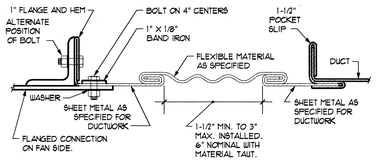
ANCHORAGE OF 1/8 INCH DIA AIR CRAFT CABLE IN WOOD.

2 M6.3 ANCHORAGE OF AIRCRAFT CABLE DETAIL
NOT TO SCALE

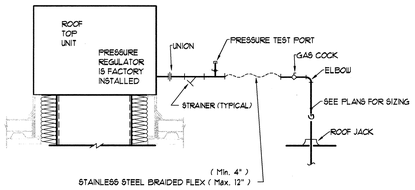


NOTES: 1) CABLES TO BE INSTALLED HAND TAUT W/O SLACK.
2) CABLE IS 7 X 19 AIRCRAFT CABLE.

3 M6.3 CABLE RESTRAINT DETAIL
NOT TO SCALE

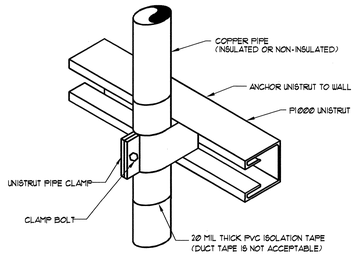


4 M6.3 RETANGULAR FLEXIBLE CONNECTION DETAIL
NOT TO SCALE



NOTE:
1. PIPING AND PIPING COMPONENTS REQUIREMENT TO MEET ALL CURRENT CODES.
2. CONTRACTOR TO VERIFY UNITS PRESSURE REGULATOR MEETS BUILDING GAS PRESSURE. IF NOT, CONTRACTOR TO PROVIDE EXTERNAL REGULATOR AS REQUIRED.

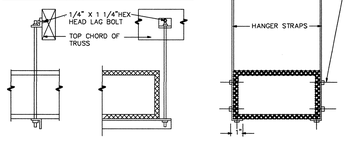
5 M6.3 GAS PIPING FOR RTU
NOT TO SCALE



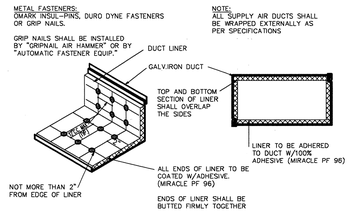
6 M6.3 PIPE SUPPORT DETAIL
NOT TO SCALE

HANGER SIZES FOR RECTANGULAR DUCT

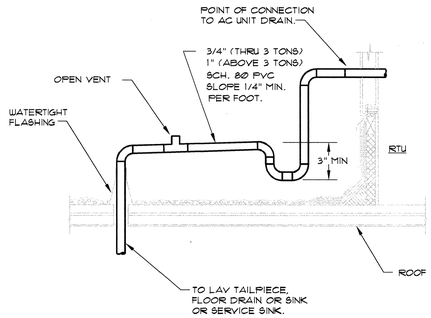
MAX. SIDE	HANGER	HORIZANTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"X16' GAGE STRAP	NONE REQUIRED	8'-0"
36"	1/4" ROUND ROD	1 1/2" X 1 1/2" X 1/8"	8'-0"
48"	1/4" ROUND ROD	1" X 1" X 1/8"	8'-0"
60"	5/16" ROUND ROD	1" X 1" X 1/8"	8'-0"
84"	3/8" ROUND ROD	1" X 1" X 1/8"	8'-0"



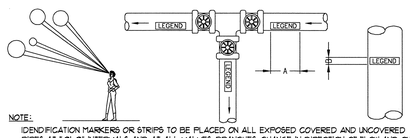
7 M6.3 DUCT STRAP HANGER DETAIL
NOT TO SCALE



8 M6.3 DUCT LINER DETAIL
NOT TO SCALE



9 M6.3 CONDENSATE DRAINAGE DETAIL
SCALE: NTS

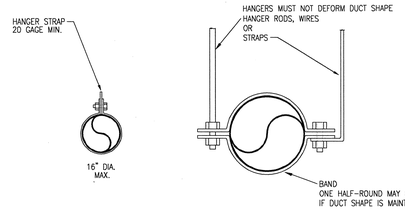


NOTE:
IDENTIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS AND AT ALL VALVES, BRANCHES, CHANGE IN DIRECTION OF FLOW AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATION DIRECTION OF FLOW.

OUTSIDE DIAMETER OF PIPE OR COVERING		LENGTH OF COLOR FIELD A		SIZE OF LETTERS B	
INCHES	MM	INCHES	MM	INCHES	MM
3/4" TO 1-1/4"	19 TO 32	8"	200	1/2"	13
1-1/2" TO 2"	38 TO 51	8"	200	3/4"	19
2-1/2" TO 6"	64 TO 150	12"	300	1-1/4"	32
8" TO 10"	200 TO 250	24"	600	2-1/2"	64
OVER 10"	OVER 250	32"	800	3-1/2"	89

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	YELLOW	BLACK ON YELLOW
DOMESTIC HOT WATER RETURN	YELLOW	BLACK ON YELLOW
FIRE PROTECTION (SPRINKLER)	RED	WHITE ON RED
NATURAL GAS	YELLOW	BLACK ON YELLOW
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN

10 M6.3 PIPE IDENTIFICATION DETAIL
NOT TO SCALE

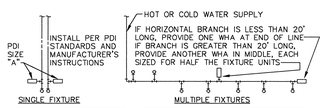


REFERENCE:
LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS
LOWER HANGER ATTACHMENTS FIGURE

MINIMUM HANGER SIZE FOR ROUND DUCT

DIAMETER	MAXIMUM SPACING	WIRE DIA.	ROD	STRAP
10" DN	12'	ONE 12 Ga.	1/4"	1"x22 Ga.
11-18"	12'	TWO 12 Ga. OR ONE 8 Ga.	1/4"	1"x20 Ga.
19-24"	12'	TWO 10 Ga.	1/4"	1"x20 Ga.
25-36"	12'	TWO 8 Ga.	3/8"	1"x20 Ga.
37-50"	12'	N/A	TWO 3/8"	TWO 1"x20 Ga.
51"-60"	12'	N/A	TWO 3/8"	TWO 1"x18 Ga.
61"-84"	12'	N/A	TWO 3/8"	TWO 1"x16 Ga.

11 M6.3 ROUND DUCT HANGER DETAIL
NOT TO SCALE



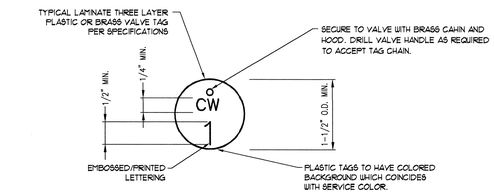
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION

FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. SIZING CHARTS ARE BASED ON SIOUX CHIEF. USE SPECIFIC MANUFACTURERS SIZING CHARTS.

12 M6.3 WATERHAMMER ARRESTERS DETAILS
SCALE: NTS



NOTE:
REFERENCE ALL "VALVE TAGS" TO "VALVE TAG CHART", "O&M MANUALS DATA" (INDEX VALVES PER CHART).

TAG LEGEND (PLUMBING EXAMPLE)

CW = COLD WATER
HW = HOT WATER
HWC = HOT WATER RECIRCULATING
G = NATURAL GAS
FP = FIRE PROTECTION

TAG LEGEND (FIRE PROTECTION EXAMPLE)

FP-C = FIRE PROTECTION CONTROL VALVES
FP-D = FIRE PROTECTION DRAIN VALVES

EXAMPLE VALVE TAG CHART

VALVE TAG CHART FOR: XXXXXXXX MOD: XXX AREA: XXX WING : XX FLOOR: XX

VALVE TAG #	LOCATION (ALSO SEE AS-BUILT DWGS)	FUNCITON (WHAT IT DOES & WHAT/WHERE IT SERVICES)	TYPE	SIZE	MFG.	MODEL #
CW-1	RM. XXX - ABOVE CEILING	ON/OFF - FIXTURES IN RM. XXX & XXX	BV	1"	XXXX	XX-XXX-XX
CW-2	CORR. XXX - ABOVE DOOR @ RM. XXX	BALANCE - 2nd FLOOR, EAST SIDE, NORTH WING...	BF,V	1-1/2"	XXXX	XX-XXX-XX
CW-3	BOILER RM. XXX - NE CORNER	ON/OFF - MAIN - BLDGS X,Y, & Z	GV	8"	XXXX	XX-XXX-XX
CW-4	RM. XXX - BEHIND N. ACCESS PANEL	ON/OFF - EXT. FIELDHOUSE & FIELD HYD. - IRRIGATION	BV	3"	XXXX	XX-XXX-XX
HW-1	RM. XXX - ABOVE CEILING	ON/OFF - MIXING VALVE - EYEWASH	BV	1"	XXXX	XX-XXX-XX

* ALL MAJOR SYSTEMS ON-OFF, CONTROL AND BALANCING VALVES SHALL HAVE AN ASTERIK "*"

13 M6.3 VALVE TAG DETAIL & VALVE CHART FORMAT
NOT TO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN JOINTS &/OR INTERMEDIATE REINFORCING	MIN. H, M, PL	PLAIN S SLIP RECOM-MENDED GAGE	FLANGED S SLIP RECOM-MENDED GAGE	ALTERNATE BAR SLIP RECOM-MENDED GAGE	REINFOR. BAR SLIP RECOM-MENDED GAGE	BAR SLIP RECOM-MENDED GAGE	ANGLE SLIP REINFORCED ANGLE SIZE	STAND. SEAM RECOM-MENDED GAGE	ANGLE REINFOR. STANDS.SEAM REINFORCED ANGLE SIZE	POCKET LOCK RECOM-MENDED GAGE	ANGLE REINFORCED POCKET LOCK REINFORCED ANGLE SIZE
UP THRU 12	26	NONE REQ.	1	26	26	24	24	24	NOT REQ.	NOT REQ.	NOT REQ.	24	NOT REQ.
13 - 18	24	NONE REQ.	1	24	24	24	24	24	NOT REQ.	NOT REQ.	NOT REQ.	24	NOT REQ.
19 - 30	24	1X1X1/8 @ 60"	1	-	24	24	24	24	NOT REQ.	NOT REQ.	NOT REQ.	24	NOT REQ.
31 - 42	22	1X1X1/8 @ 60"	1	-	-	22	22	22	NOT REQ.	NOT REQ.	NOT REQ.	22	NOT REQ.
43 - 54	22	1.5X1.5X1/8@60	1 1/2	-	-	22	22	22	1.5X1.5X1/8	NOT REQ.	NOT REQ.	22	NOT REQ.
55 - 60	20	1.5X1.5X1/8@60	1 1/2	-	-	-	22	22	1.5X1.5X1/8	NOT REQ.	NOT REQ.	22	NOT REQ.
61 - 84	20	1.5X1.5X1/8@60	1 1/2	-	-	-	22	22	1.5X1.5X1/8	1.5X1.5X1/8	NOT REQ.	22	1.5X1.5X1/8

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED

14 M6.3 DUCT CONSTRUCTION DETAIL
NOT TO SCALE

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By: kaggless, Mar 31, 2010 - 9:42 AM Date Plotted: Apr 1, 2010 - 8:59 AM X:\Projects\2008\08226.02\01-Liquor Store - Springville\M6.3 - 08226.02.dwg

NEW SPRINGVILLE LIQUOR STORE
DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR. ■ Architect & Associates
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MECHANICAL DETAILS

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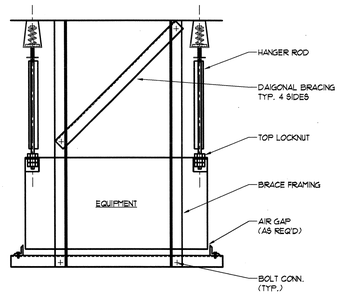
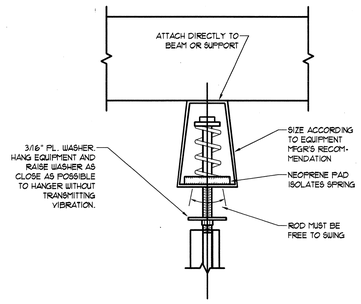
REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: 08226.00
PLOT SCALE: AS SHOWN
DRAWN BY: AJG
CHECKED BY: KAG
DATE: 3-31-10

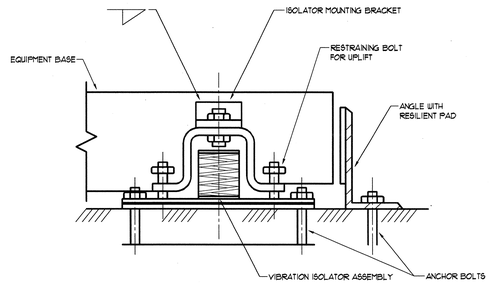
M6.3



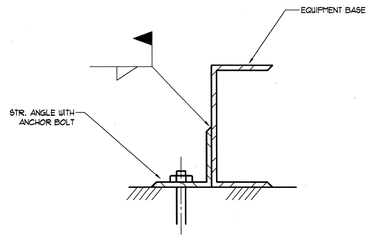
EQUIPMENT SUSPENSION DETAIL



EQUIPMENT RESTRAINT DETAIL



EQUIPMENT BRACE DETAIL

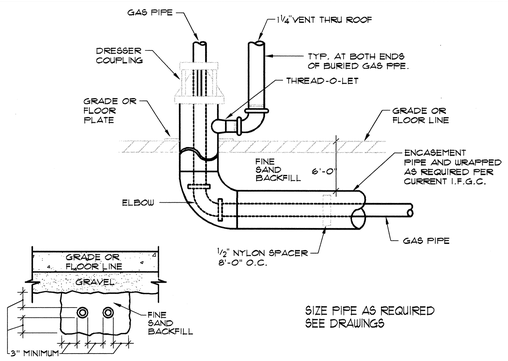


EQUIPMENT BRACING NOTES:

1. DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. SIZE RESTRAINTS PER EQUIPMENT OPERATING WEIGHTS.
4. PROVIDE LATERAL BRACING FOR ALL SUSPENDED EQUIPMENT.
5. SECURE FLOOR MOUNTED SPRING ISOLATED EQUIPMENT USING SEISMIC SPRING ISOLATORS.
6. RIGIDLY MOUNTED EQUIPMENT SHALL BE SECURED WITH ANCHOR BOLTS SIZED FOR OPERATING WEIGHTS. PROVIDE NEOPRENE WASHERS AND SLEEVES FOR EQUIPMENT MOUNTED ON NEOPRENE PADS.
7. FOR EQUIPMENT REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
   DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
   a. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM
   b. CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

1 / M6.4 EQUIPMENT SUSPENSION DETAIL

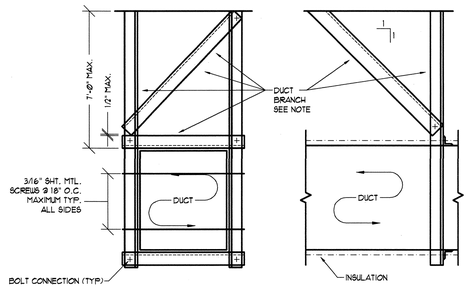
NOT TO SCALE



SIZE PIPE AS REQUIRED
SEE DRAWINGS

2 / M6.4 GAS PIPE SLEEVE VENTING DETAIL

NO SCALE



SCHEDULE "A" BRACING OF RECTANGULAR DUCTS						
DUCT SIZE INCHES	VERTICAL ANGLES	DIAGONAL ANGLES	HORIZONTAL ANGLES	LONGITUDINAL ANGLES	BOLT SIZE ##	WT. PER LINEAR FOOT
30" SQ.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2" X 2" X 16 GA.	3" X 3" X GA.	1/4"Φ	13
42" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"Φ	20
54" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"Φ	27
60" SQ.	4" X 4" X 12 GA.	3" X 3" X 16 GA.	3" X 3" X 16 GA.	D.O.	3/8"Φ	36
84" SQ.	4" X 4" X 1/4"	4" X 4" X 14 GA.	4" X 4" X 14 GA.	D.O.	3/8"Φ	53
96" SQ.	5" X 3" X 1/4"	4" X 4" X 12 GA.	4" X 4" X 12 GA.	D.O.	1/2"Φ	30

\# MAXIMUM DIMENSION OF DUCT SHALL GOVERN WHAT BRACING REQUIRED.
EX: A 42" X 32" DUCT SHALL BE BRACED AS A 42" SQ. DUCT.

MINIMUM EDGE DISTANCE FOR BOLTS:

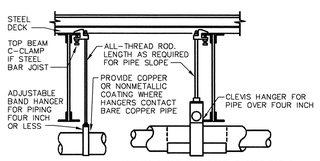
1/4"Φ - 1"	5/8"Φ - 1-1/8"
3/8"Φ - 1"	3/4"Φ - 1-1/4"
1/2"Φ - 1"	7/8"Φ - 1-1/2"

DUCT BRACING NOTES:

1. DESIGN RESTRAINTS PER SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. FOR DUCTWORK REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
   a. TRANSVERSE BRACE AT EACH DUCT CHANGE OF DIRECTION, END OF DUCT RUN, AND AT 30'-0" O.C. FOR STRAIGHT RUNS.
   b. LONGITUDINAL BRACE AT 60'-0" O.C.
   c. TRANSVERSE BRACING OF ONE DUCT SECTION MAY ACT AS A LONGITUDAL BRACE FOR A DUCT SECTION CONNECTED PERPENDICULAR TO IT, PROVIDING THE BRACE IS INSTALLED WITHIN FOUR FEET OF THE INTERSECTION AND IS SIZED FOR THE LARGEST DUCT.
   d. WALLS WHICH HAVE DUCTS PASSING THROUGH THEM MAY SUBSTITUTE FOR A TRANSVERSE BRACE.
   e. DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
   f. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

3 / M6.4 SEISMIC RESTRAINT OF DUCTS DETAIL

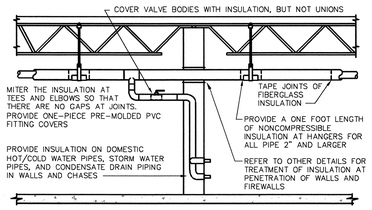
NOT TO SCALE



DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF JOISTS.

PROVIDE GALVANIZED STEEL SADDLE FOR ALL INSULATED PIPE LARGER THAN 3/4". VERIFY INSULATION THICKNESS WHEN SIZING HANGERS.

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

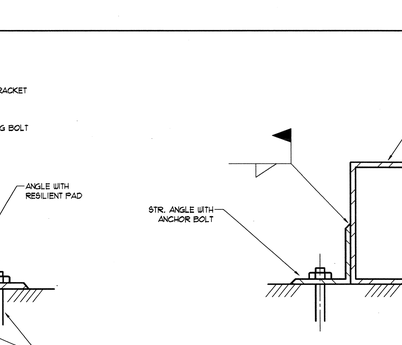


PROVIDE FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

- INSULATE ALL PIPING IN CONDITIONED AND UNCONDITIONS SPACES.

4 / M6.4 PIPE INSULATION DETAILS

NO SCALE



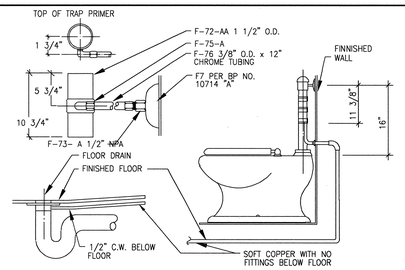
SCHEDULE "B" TRANSVERSE BRACING FOR PIPE						
PIPE SIZE INCHES	BOLTS TO ANGLES	LONGITUDAL, TRANSVERSE & VERTICAL ANGLES	ROD DIAMETER INCHES	MAXIMUM ROD LENGTH	MAXIMUM INTERVAL OF BRACES IN FEET	
					40-S STEEL OR CAST IRON	COPPER TUBE
1	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	24.2	12.1
1-1/4	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	24.2	12.1
1-1/2	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	27.5	13.2
2	3/8"	1-1/2" X 1-1/2" X 3/16"	1/2"	25"	31.9	15.4
2-1/2	3/8"	2" X 2" X 5/16"	1/2"	25"	35.2	16.5
3	3/8"	2" X 2" X 5/16"	1/2"	25"	37.4	18.7
3-1/2	3/8"	2" X 2" X 5/16"	1/2"	25"	39.6	19.8
4	3/8"	2" X 2" X 5/16"	5/8"	31"	42.9	20.9
5	1/2"	2" X 2" X 5/16"	5/8"	31"	45.1	22.0
6	1/2"	2" X 2" X 5/16"	3/4"	37"	49.5	24.2
8	1/2"	2-1/2" X 2-1/2" X 1/4"	7/8"	43"	53.9	28.6
10	1/2"	3" X 3" 1/4"	7/8"	43"	59.4	30.8

PIPING BRACING NOTES:

1. DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. SEISMIC BRACING IS REQUIRED FOR ALL PIPING 2-1/2" AND LARGER.
4. DO NOT USE BRANCH SECTIONS TO BRACE PIPING MAINS.
5. PROVIDE FLEXIBLE COUPLINGS AT PENETRATIONS THROUGH BUILDING SEISMIC AND EXPANSION JOINTS AND WHERE PIPING IS RIGIDLY CONNECTED TO EQUIPMENT.
6. FOR EQUIPMENT REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
   a. DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
   b. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

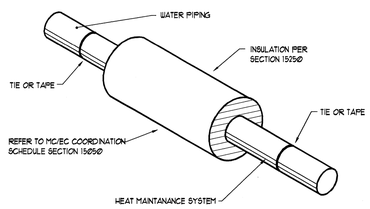
7 / M6.4 TRANSVERSE SWAY BRACING DETAIL

NOT TO SCALE



5 / M6.4 TRAP PRIMER DETAIL

SCALE: NTS



6 / M6.4 HEAT MAINTENANCE CABLE INSTALLATION DETAIL

SCALE: NTS

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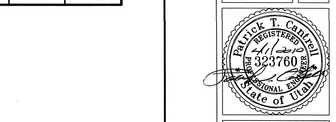
By: kaggless, Mar 31, 2010 - 9:43 AM, Date Plotted: Apr 1, 2010 - 8:53 AM X:\Projects\2008\08226.00\Liquor Store - Springville\M6.4 - 08226.00.dwg

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR. Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220

MECHANICAL DETAILS



REVISION # DATE:

DFCM PROJECT NO.: 08226030
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FILE NAME: 08226.00
PLOT SCALE: AS SHOWN
DRAWN BY: AJG
CHECKED BY: KAG
DATE: 3-31-10

M6.4

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ELECTRICAL SYMBOLS

NOTE: SYMBOLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PROJECT. DASHED SYMBOLS INDICATE EXISTING FIXTURE, EQUIPMENT, ETC.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
ELECTRICAL WIRING		
	CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED.	N/A
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	N/A
	BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR	N/A
A-13	BRANCH CIRCUIT HOMERUNS TO PANEL W/PANEL & CIRCUIT NUMBER DESIGNATIONS.	N/A
	CONDUIT RISER UP	N/A
	CONDUIT RISER DOWN	N/A
	CONDUIT STUB (CAP CONDUIT)	AS NOTED
C	CABLE TRAY	AS NOTED
B	BUS DUCT	AS NOTED
ELECTRICAL POWER		
J	JUNCTION BOX	AS NOTED
	DUPLEX RECEPTACLE	+16"
	QUAD RECEPTACLE	+16"
	SPLIT WIRED DUPLEX RECEPTACLE	+16"
WP	DUPLEX RECEPTACLE WEATHERPROOF AND GFCI	+16"
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"
EWC	RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"
	EQUIPMENT RECEPTACLE	+16"
	SPECIAL PURPOSE RECEPTACLE	+16"
	DUPLEX RECEPTACLE FLOOR	FLOOR
	QUAD RECEPTACLE FLOOR	FLOOR
	POWER/TELEPHONE POLE	FLOOR
	SNOW MELT CABLE	+46"
ELECTRICAL CONNECTIONS		
	NON-FUSED DISCONNECT SWITCH	TOP AT 6'-0"
	FUSED DISCONNECT SWITCH	TOP AT 6'-0"
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED	TOP AT 6'-0"
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED	TOP AT 6'-0"
	MOTOR STARTER ONLY	TOP AT 6'-0"
VFD	VARIABLE FREQUENCY DRIVE	+78"
	MOTOR CONNECTION	AS NOTED
ELECTRICAL DISTRIBUTION		
T	TELEPHONE COMPANY PEDESTAL	AS NOTED
GS	POWER COMPANY GROUND SLEEVE	AS NOTED
	POWER COMPANY SITE TRANSFORMER	AS NOTED
	HIGH VOLTAGE (277/480 VOLT) PANELBOARD	TOP AT 6'-0"
	LOW VOLTAGE (120/208 VOLT) PANELBOARD	TOP AT 6'-0"
	DRY TYPE TRANSFORMER	AS NOTED
	DISTRIBUTION SWITCHBOARD	AS NOTED
	TELEPHONE AND/OR DATA TERMINAL BOARD	AS NOTED
ELECTRICAL DEVICES		
	PUSHBUTTON	+48"
	STOP/START STATION	+48"
EPO	"EMERGENCY POWER OFF" MUSHROOM TYPE BUTTON	+48"
T	LINE VOLTAGE THERMOSTAT	+48"
	CLOCK	AS NOTED
N	NURSE CALL BED/BATH STATION	+48"
N	NURSE CALL LIGHT	+84"
NURS	NURSE CALL STATION PANEL	TOP AT 6'-0"

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
LIGHTING CONTROL		
S	SINGLE POLE SWITCH	+48"
$3	3-WAY SWITCH	+48"
$4	4-WAY SWITCH	+48"
$P	SWITCH WITH PILOT LIGHT	+48"
$D	DIMMER SWITCH	+48"
$K	KEYED SWITCH	+48"
$TM	TIMER SWITCH (SPRING WOUND)	+48"
$T	MANUAL STARTER WITH THERMAL OVERLOAD	AS NOTED
$L	LOW VOLTAGE SWITCH	+48"
$°	CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT)	+48"
	SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION. MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECHNOLOGY	+48"
	OCCUPANCY SENSOR DUAL TECHNOLOGY	CEILING
TS	TIME SWITCH	+60"
	LIGHTING CONTACTOR	+60"
P	PHOTOCELL	AS NOTED
LIGHTING		
	FLUORESCENT FIXTURE (TYPICAL)	CEILING
EM	FLUORESCENT EMERGENCY FIXTURE (TYPICAL)	CEILING
	SURFACE MOUNTED FIXTURE	CEILING
	RECESSED FIXTURE	CEILING
	WALL MOUNTED FIXTURE	AS NOTED
	WALL MOUNTED EMERGENCY EGRESS FIXTURE	AS NOTED
	FLUORESCENT STRIP	CEILING
	TRACK LIGHTING	CEILING
	EMERGENCY LIGHTING UNIT	+84"
FXX	FIXTURE TYPE SYMBOL (ATTACHED TO FIXTURE SYMBOL)	N/A
	POST TOP AREA LIGHT POLE & FIXTURE	AS NOTED
	AREA LIGHT POLE AND FIXTURE (HEAD QTY AS SHOWN ON PLAN)	AS NOTED
	BOLLARD FIXTURE	GROUND
	FLOOD OR SPOT FIXTURE	AS NOTED
	WALL MOUNTED EXIT LIGHT (SINGLE FACE)	+84"
	WALL MOUNTED EXIT LIGHT (DOUBLE FACE)	+84"
	CEILING MOUNTED EXIT LIGHT (SINGLE FACE)	CEILING
	CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)	CEILING
TELECOMMUNICATIONS		
	TELEPHONE OUTLET	+16"
	COMPUTER DATA OUTLET	+16"
	VOICE / DATA OUTLET	+16"
	TELEPHONE OUTLET FLOOR	FLOOR
	COMPUTER DATA OUTLET FLOOR	FLOOR
	NETWORK AND VOICE OUTLET FLOOR	FLOOR
REFERENCE SYMBOLS		
XX X	FEEDER TAG (ONE LINE DIAGRAM)	N/A
X	REVISION TAG INDICATOR	N/A
X EX	DETAIL INDICATOR; TOP DETAIL IDENTIFICATION BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED.	N/A
X-XX	MECHANICAL EQUIPMENT SYMBOL	N/A
X	KEYED NOTE REFERENCE	N/A

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
AUDIO / VIDEO		
TV	TELEVISION OUTLET	AS NOTED
V	VOLUME CONTROL	+48"
S	SPEAKER	CEILING
M	MICROPHONE JACK	+16"
A	AUXILIARY JACK	+16"
IC	INTERCOM STATION	+48"
	BELL	+84"
	CHIME	+84"
FIRE ALARM		
F	FIRE ALARM MANUAL PULL STATION	SEE DETAIL
H	FIRE ALARM HORN/STROBE	SEE DETAIL
H G	FIRE ALARM HORN/STROBE WITH GUARD	SEE DETAIL
H WP	FIRE ALARM HORN/STROBE WATERPROOF	SEE DETAIL
S	FIRE ALARM STROBE	SEE DETAIL
	SMOKE DETECTOR	CEILING
B	SMOKE DETECTOR BATTERY-BACKED	CEILING
D	DUCT SMOKE DETECTOR	IN DUCT
D	SMOKE DETECTOR (ELEVATOR RECALL)	CEILING
	HEAT DETECTOR	CEILING
	GAS DETECTOR	+16"
	DOOR HOLDER	AS NOTED
	PRESSURE SWITCH	AS NOTED
	FIRE ALARM FLOW SWITCH	AS NOTED
	FIRE ALARM TAMPER SWITCH	AS NOTED
	FIRE ALARM FIREFIGHTER PHONE	+48"
CM	CONTROL MODULE	AS NOTED
MM	MONITOR MODULE	AS NOTED
FSD	FIRE/SMOKE DAMPER	AS NOTED
R	FIRE ALARM RELAY	AS NOTED
GAA	FIRE ALARM GENERATOR ANNUNCIATOR	TOP AT 6'-0"
FST	FIRE ALARM TRANSMISSION (MONITORING) DEVICE	AS NOTED
FACP	FIRE ALARM CONTROL PANEL	TOP AT 6'-0"
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL	TOP AT 6'-0"
SECURITY		
1	SECURITY SYSTEM DOOR CONTACT	DOOR JAMB
2	SECURITY SYSTEM OVERHEAD DOOR CONTACT	AS NOTED
KP	SECURITY SYSTEM KEYPAD ARM/DISARM	+48"
	SECURITY SYSTEM DOOR ELECTRIC STRIKE	AS NOTED
	SECURITY SYSTEM MAGNETIC DOOR LOCK	AS NOTED
REX	REQUEST TO EXIT MOTION DETECTOR	AS NOTED
	SECURITY SYSTEM AREA MOTION SENSOR	AS NOTED
	SECURITY SYSTEM GLASS BREAK SENSOR	AS NOTED
CR	SECURITY SYSTEM CARD READER	+48"
AK	SECURITY SYSTEM DOOR ACCESS KEYPAD	+48"
	SECURITY SYSTEM CCTV CAMERA	* AS NOTED
DVR	DIGITAL VIDEO RECORDER	AS NOTED
MON	SECURITY SYSTEM CCTV MONITOR	AS NOTED
SPRT	SECURITY SYSTEM PANEL	TOP AT 6'-0"
PS	POWER SUPPLY LOW VOLTAGE	AS NOTED

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	(N)	NEW
AFP	ARC FAULT PROTECTOR	EWH	ELECTRIC WATER HEATER	NIC	NOT IN CONTRACT
AIC	AMP INTERRUPTING CURRENT (SYMMETRICAL)	(F)	FUTURE	NL	NIGHT LIGHT
AL	ALUMINUM	FA	FIRE ALARM	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BG	BELOW GRADE	FLA	FULL LOAD AMPS	OFOI	OWNER FURNISHED OWNER INSTALLED
C	CONDUIT	GFI	GROUND FAULT INTERRUPTER	PNL	PANEL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GFP	GROUND FAULT PROTECTOR	(R)	RELOCATE
CKT	CIRCUIT	GRC	GALVANIZED RIGID CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
CO	CONDUIT ONLY	GRND	GROUND	TYP	TYPICAL
CU	COPPER	IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
C/M	COMPLETE WITH	MCB	MAIN CIRCUIT BREAKER	WP	WEATHER PROOF
E	EMERGENCY	MCC	MOTOR CONTROL CENTER	(X)	DEMOLISH/DELETE
(E)	EXISTING	MH	MANHOLE	XMR	TRANSFORMER
EPO	EMERGENCY POWER OFF	MLO	MAIN LUGS ONLY		

* THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS AE USED ON THIS PROJECT.

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
2. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
3. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURES CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN INTENT AND SPECIFICATION.
4. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
5. ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY OR SERVICE COMPANIES FOR BUT NOT LIMITED TO POWER, TELEPHONE, FIBER OPTIC & INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
7. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO DUCTS, PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER, OR PASS THROUGH ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE MOST RECENT VERSION OF THE NATIONAL ELECTRICAL CODE REGARDING CLEARANCES REQUIRED AROUND THE PANELBOARD(S).
8. DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
9. ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTS ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH IN OF ELECTRICAL DEVICE JUNCTION BOXES.
10. CONSULT ARCHITECTS REFLECTED CEILINGS PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
11. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
12. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
13. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
14. ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.
15. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
16. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
17. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
18. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
19. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
20. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILINS AND WALLS SHALL BE SEALED WITH UL LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
21. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
22. WIRE FOR GENERAL USE SHALL BE COPPER 75° C RATED . WIRING FOR HID FIXTURES WITHIN 3' OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
23. CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSURE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAGE DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.
24. ALL WIRING SHALL BE ENCLOSED IN METAL RACEWAYS. ALL RECEPTACLES, LIGHTING FIXTURES, ETC. SHALL HAVE A SEPARATE INSULATED GROUNDING CONDUCTOR FROM EACH DEVICE TO THE BRANCH PANEL.
25. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.
26. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.
27. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
28. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
29. ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO INSURE PROPER OPERATION. IF TESTS RESULT IN DEFECT THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
30. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
31. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
32. ALL GABLES AND RACEWAYS INSTALLED UNDER METAL CORRUGATED ROOF DECK SHALL BE INSTALLED AND SUPPORTED NOT LESS THAN 6" FROM THE NEAREST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 300.4(E).

LIGHTING CONTROL PANEL NOTES:

1. SYSTEM DESCRIPTION FOR LIGHTING INTEGRATOR PANEL SYSTEM WITH AUTOMATION CARD (NON-PC CONTROL)
2. THE LIGHTING CONTROL SYSTEM SHALL CONSIST OF ANY OF THE FOLLOWING COMPONENTS: RELAY PANELS, DATALINE WIRING, SWITCHES, SENSORS AND REMOTE OVERRIDE DEVICES. ALL EQUIPMENT TO BE UL/CUL CERTIFIED TO MEET UL 916.
3. THE RELAY PANELS SHALL BE SUITABLE FOR MOUNTING IN ELECTRICAL CLOSETS AND MOUNTED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES. THE RELAYS WILL CONTROL INDIVIDUAL CIRCUITS OR BRANCH CIRCUITS AS INDICATED IN THE RELAY PANEL SCHEDULES. ALL POWER WIRING WILL BE IDENTIFIED AT THE RELAY BY ITS CONTROLLING CIRCUIT BREAKER AND BRANCH LETTER.
4. LOW VOLTAGE SWITCHES, OCCUPANCY SENSORS, AND/OR PHOTOCELLS SHALL BE MOUNTED IN THE SPACES AS INDICATED ON THE REFLECTED CEILING PLANS. LOW VOLTAGE WIRING FROM THE SWITCHES AND SENSORS TO THE RELAY PANEL SHALL BE CLASS 2 OR CLASS 2P (PLENUM RATED) AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND LOCAL STANDARDS. USE ONLY PROPERLY COLOR-CODED, STRANDED #20 AWG (OR LARGER) WIRE AS INDICATED ON THE DRAWINGS.
5. PANEL COMPONENTS TO INCLUDE: ENCLOSURE AND COVER, POWER SUPPLY, AND PANEL INTERIOR ASSEMBLY WITH MOTHERBOARD, AND CONTROL ELECTRONICS. PANELS ARE TO BE SHIPPED FULLY ASSEMBLED YET DESIGNED FOR DISASSEMBLY FOR MOUNTING THE ENCLOSURE FIRST, AND REASSEMBLY AFTER CONDUIT ROUGH-IN. THE PANEL SHALL INCLUDE VISUAL LED STATUS AND MANUAL OVERRIDE FOR EACH RELAY, TERMINALS FOR EACH RELAY FOR DIRECT-WIRED DEVICES SUCH AS SENSORS AND SWITCHES, SYSTEM DATALINE TERMINALS, AND PROGRAMMABLE SYSTEM SWITCHES.
6. EACH RELAY PANEL SHALL USE 30A BALLAST RATED, 120/277VAC, MECHANICALLY LATCHING RELAYS AS REQUIRED. RELAYS SHALL HAVE A MINIMUM 10,000 AMP SHORT CIRCUIT CURRENT RATING. ELECTRICALLY HELD RELAYS WILL NOT BE ACCEPTABLE. PANELS SHALL BE SIZED TO MAXIMUM 8, 24, OR 48 RELAYS. EACH RELAY SHALL PROVIDE PILOT OUTPUT CONTACTS, RATED AT 1AMPS AC/DC.
7. AN OPTIONAL GROUP SWITCHING (GS) CARD SHALL BE PROVIDED FOR CONTROLLING 8 GROUPS OF LIGHTING, PLUS PATTERN CONTROL FOR EACH GROUP. EACH GS CARD SHALL PROVIDE 8 TERMINALS FOR CONNECTION TO DIRECT WIRED SWITCHES, OVERRIDE DEVICES AND OCCUPANCY SENSORS. EACH GROUP SHALL HAVE AN LED ASSOCIATED TO INDICATE ITS STATUS AND A MANUAL OVERRIDE PUSHBUTTON.
8. PANEL INTELLISENCE CARD FOR AUTOMATION FUNCTIONS SHALL BE PROVIDED VIA A PLUG-IN CARD SLOT ON THE PANEL MOTHERBOARD. THE INTELLISENCE BOARD SHALL BE A DISTRIBUTED INTELLISENCE COMPONENT, CAPABLE OF EXECUTING ALL SCHEDULES, PROGRAMMABLE SWITCHES, AND OCCUPANT OVERRIDES WITHOUT RELYING ON ANY OTHER COMPONENT IN THE SYSTEM.

   AUTOMATION INTELLISENCE CARD SHALL SPORT TWO DATALINE COMMUNICATIONS PORTS FOR PROGRAMMING, MONITORING, AND CONTROL, AND THE OTHER PORT FOR CONNECTION TO DIGITAL SIGNALING DATALINE SWITCHES. THE DATALINE SHALL ALLOW COMMUNICATIONS OVER UNSHIELDED TWISTED PAIR WIRING FOR NETWORKING UP TO 10 PANELS AND FOR DISTANCES UP TO 1500 FEET BETWEEN PANELS, AND FOR CONNECTING UP TO 63 DATALINE SWITCHES PER PANEL.

   THE AUTOMATION INTELLISENCE CARD SHALL PROVIDE CONNECTION TO OPTIONAL MODULES THAT PROVIDE CLOCK SCHEDULING, OR TO A BUILDING MANAGEMENT SYSTEM VIA DRY CONTACTS, OR A TELEPHONE CONTROL MODULE, OR A PHOTOSENSOR CONTROL MODULE FOR EXTERIOR LIGHTING CONTROL.
9. A PROGRAMMABLE NETWORK CLOCK WITH AN 8 LINE LCD DISPLAY SHALL BE INSTALLED IN THE PANEL. THE CLOCK SHALL PROVIDE MENU DRIVEN CONTROL FOR 8 DIFFERENT LIGHTING GROUPS, WITH 7 DAY REPEATING SCHEDULES AND PROVISION FOR HOLIDAYS. THE CLOCK SHALL PROVIDE USER SELECTABLE PRE-PROGRAMMED SCENARIOS FOR, SCHEDULED ON/OFF, MANUAL ON/ SCHEDULED OFF, MANUAL ON/ SWEEP WITH AUTOMATIC CONTROL SWITCH, ASTRO ON/OFF, ASTRO ON/SCHEDULED OFF, AND DARK ON/OFF WHEN USED WITH THE PHOTOSENSOR CONTROL MODULE.
10. AN PHOTOSENSOR CONTROL (PC) MODULE WITH COMPATIBLE OUTDOOR PHOTOCELL SHALL BE PROVIDED FOR EXTERIOR LIGHTING CONTROL. THE PC MODULE SHALL PROVIDE 8 AUTOMATION CHANNELS WITH USER PROGRAMMABLE SET POINTS FOR EACH CHANNEL. THE PROGRAMMABLE RANGE FOR EACH CHANNEL SHALL BE 0-200 FOOTCANDLES. A TWO-LINE LCD WINDOW SHALL DISPLAY REAL-TIME LIGHT LEVELS FOR EACH CHANNEL AND USER PROGRAMMED SETPOINTS.
11. RELAY PANELS WILL BE CAPABLE OF FOLLOWING STANDARD FEATURES: SCHEDULED ON/OFF, ASTRONOMICAL TIME OF DAY, BLINK WARNING, TRUE AFTER HOURS TIME DELAY, JANITOR SCENARIO SWITCHES, TELEPHONE OVERRIDES, PULSE ON/OFF.
12. COLOR CODED WIRE SHALL BE PROVIDED FOR NETWORKING PANELS TOGETHER AND FOR CONNECTION TO DIGITAL SIGNALING DATALINE SWITCHES.
13. WIRE CONNECTING PANELS TOGETHER SHALL BE DUAL 18/2 TWISTED PAIR, UNSHIELDED, DATALINE WIRE (4 CONDUCTOR) TO PROVIDE A ROBUST, HIGH-SPEED COMMUNICATIONS PATH. DATALINE CAN BE RUN IN ANY CONVENIENT TOPOLOGY SERIES AS BENEFITS THE INSTALLATION; I.E. T-TAP, STAR, OR LOOP. USE ONE PAIR ONLY FOR NETWORKING PANELS TOGETHER. WIRE SHALL BE THE WATT STOPPER HOLMA DATALINE WIRE. USE ONE PAIR FOR CONNECTING PANELS TOGETHER. USE PLENUM RATED WIRE WHEN APPLICABLE.
14. WIRE CONNECTING DIGITAL SIGNALING DATALINE SWITCHES TO PANELS SHALL BE DUAL 18/2 TWISTED PAIR, UNSHIELDED, DATALINE WIRE (4 CONDUCTOR) TO PROVIDE A ROBUST, HIGH-SPEED COMMUNICATIONS PATH. DATALINE CAN BE RUN IN ANY CONVENIENT TOPOLOGY SERIES AS BENEFITS THE INSTALLATION; I.E. T-TAP, STAR, OR LOOP. WIRE SHALL BE THE WATT STOPPER HOLMA DATALINE WIRE. USE BOTH PAIRS FOR CONNECTING PANELS TO DATALINE SWITCHES. USE PLENUM RATED WIRE WHEN APPLICABLE.
15. MANUFACTURER SHALL PROVIDE A FACTORY AUTHORIZED TECHNICIAN TO CONFIRM PROPER INSTALLATION AND OPERATION OF ALL SYSTEM COMPONENTS INCLUDING OCCUPANCY SENSORS AND DAYLIGHTING CONTROLS.
16. MANUFACTURER SHALL PROVIDE FACTORY AUTHORIZED APPLICATION ENGINEER TO TRAIN OWNER PERSONNEL IN THE OPERATION AND PROGRAMMING OF THE LIGHTING CONTROL SYSTEM.
17. MANUFACTURER SHALL PROVIDE SYSTEM DOCUMENTATION INCLUDING:
    A. SYSTEM 1-LINE SHOWING ALL PANELS, NUMBER AND TYPE OF SWITCHES AND SENSORS, DATALINE, FRONT END MATERIAL.
    B. DRAWINGS FOR EACH PANEL SHOWING HARDWARE CONFIGURATION AND NUMBERING.
    C. PANEL WIRING SCHEDULES.
    D. TYPICAL WIRING DIAGRAMS FOR EACH COMPONENT.

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ELECTRICAL SYMBOLS, NOTES, & LEGENDS

REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN E. LEVORSEN STATE OF UTAH

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-AS101
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: RKR
DATE: MARCH 2010

E100

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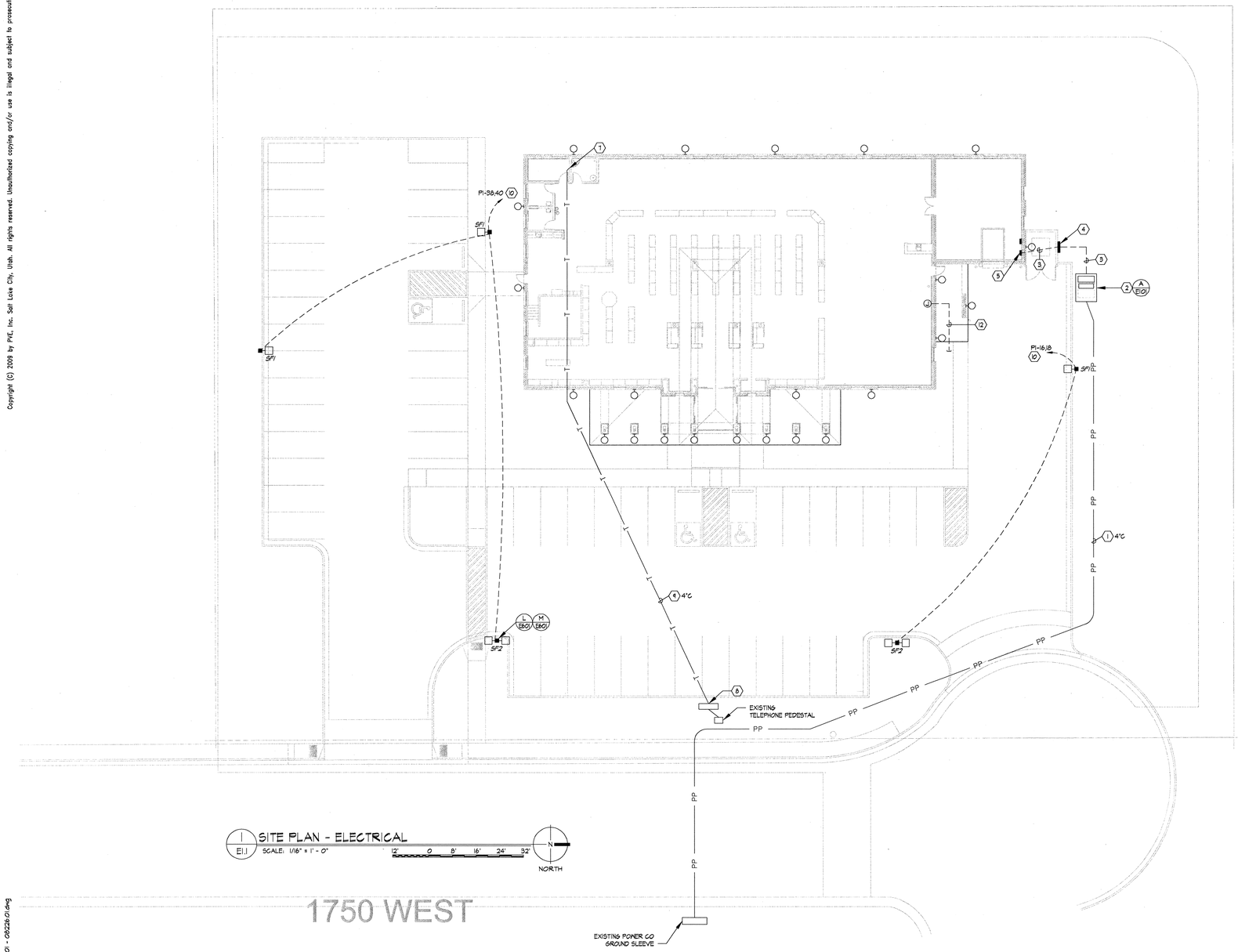


1 E1.1 SITE PLAN - ELECTRICAL

SCALE: 1/16" = 1' - 0"

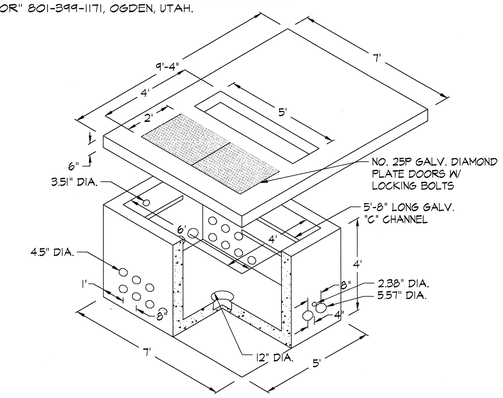
GENERAL SITE PLAN NOTES:

1. ELECTRICAL CONTRACTOR TO REFER TO THE CIVIL ENGINEER'S DRAWING AND COORDINATE ELECTRICAL INSTALLATION WITH ALL UTILITIES.
2. ELECTRICAL CONTRACTOR TO INCLUDE A MINIMUM AMOUNT OF $20,000 IN HIS BID FOR POWER COMPANY UTILITY WORK. IF ACTUAL FEES ARE LESS THAN THIS AMOUNT, CONTRACTOR SHALL REIMBURSE THE DIFFERENCE TO THE OWNER BY CHANGE ORDER.
3. ELECTRICAL CONTRACTOR TO VERIFY ALL THE UTILITY COMPANY SERVICE (POWER, TELEPHONE, ETC.) TERMINATION POINTS DURING THE BIDDING PROCESS. PROVIDE CONDUIT AS REQUIRED TO THE BUILDING TO ACCOMMODATE ALL UTILITY COMPANY SERVICES. REPORT ANY CONFLICTING CONDITIONS TO THE ARCHITECT.

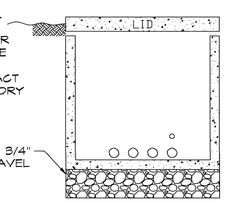
KEYED NOTES (#):

1. POWER COMPANY PRIMARY FEEDER TO GROUND SLEEVE (SEE ONE LINE DIAGRAM). VERIFY THE EXACT GROUND SLEEVE LOCATION WITH THE POWER COMPANY DURING THE BIDDING PROCESS.
2. NEW TRANSFORMER AND VAULT. (SEE ONE LINE DIAGRAM).
3. MAIN SERVICE FEEDER (SEE ONE LINE DIAGRAM).
4. EUSERC RATED CT/MAIN BREAKER ENCLOSURE (SEE ONE LINE DIAGRAM). PROVIDE AND INSTALL AS PER POWER COMPANY SPECIFICATIONS.
5. PANELBOARD 'P1'.
6. MAIN TELEPHONE COMPANY SERVICE CONDUIT TO TELEPHONE COMPANY PEDESTAL. VERIFY EXACT PEDESTAL LOCATION WITH TELEPHONE COMPANY DURING THE BIDDING PROCESS. PROVIDE ALL CONDUIT AND TRENCHING. (SEE TELEPHONE RISER DIAGRAM).
7. MAIN TELEPHONE BOARD (SEE RISER).
8. TELEPHONE JUNCTION BOX AS PER UTAH STATE REQUIREMENTS (SEE TELEPHONE/DATA RISER DIAGRAM).
9. MAIN TELEPHONE SERVICE CONDUIT (SEE RISER DIAGRAM).
10. TO PANEL 'P1', CIRCUIT VIA LIGHTING CONTROL PANEL 'RP'. SEE PANEL SCHEDULE FOR BRANCH FEEDER CONDUIT AND WIRE SIZE. SEE LIGHTING CONTROL PANEL SCHEDULE AND DETAIL FOR LIGHTING CONTROL.
11. 2" CONDUIT STUBBED OUT OF BUILDING. STUB, CAP AND MARK AS REQUIRED FOR LANDSCAPE SPRINKLING CONTROLS.

NOTE:
PAD AND VAULT SHALL COMPLY WITH ROCKY MOUNTAIN POWER STANDARD DETAIL REQUIREMENTS. PRE-CAST PAD & VAULT MAY BE PURCHASED FROM "AMCOR" 801-399-1171, OGDEN, UTAH.



NOTE:
EXCAVATE THE ENTIRE AREA BENEATH THE EQUIPMENT BASE TO ALLOW THE DEPTH REQUIREMENTS ILLUSTRATED BELOW. ALL SOIL BENEATH THE EQUIPMENT BASE SHALL BE COMPACTED AND LEVEL PRIOR TO SETTING OR POURING THE BASE, TO PREVENT SETTLING. THE CUSTOMER SHALL PROVIDE 6 INCHES OF 3/4-INCH-MINUS GRAVEL BACKFILL OR COMPACT THE UNDISTURBED EARTH TO 90 PERCENT OF DRY DENSITY.



DETAIL A/E101 TRANSFORMER PAD/VAULT DETAIL
N.T.S.

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NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

SITE PLAN - ELECTRICAL

FRANK N MURDOCK JR. ■ Architect & Associates
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REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN R. ELEVOSSON STATE OF UTAH
7/1/10

REVISION #	DATE:

DFCM PROJECT NO.:
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FILE NAME: ABCSV-AS101
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DATE: MARCH 2010

E101

By: bwhite, Apr 1, 2010 - 3:21 PM, Date Plotted: Apr 1, 2010 - 4:00 PM, X:\Projects\2008\08226.00\01- Liquor Store - Springville\E01 - 08226.01.dwg

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STATISTICS									
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG	CV	Avg/Max
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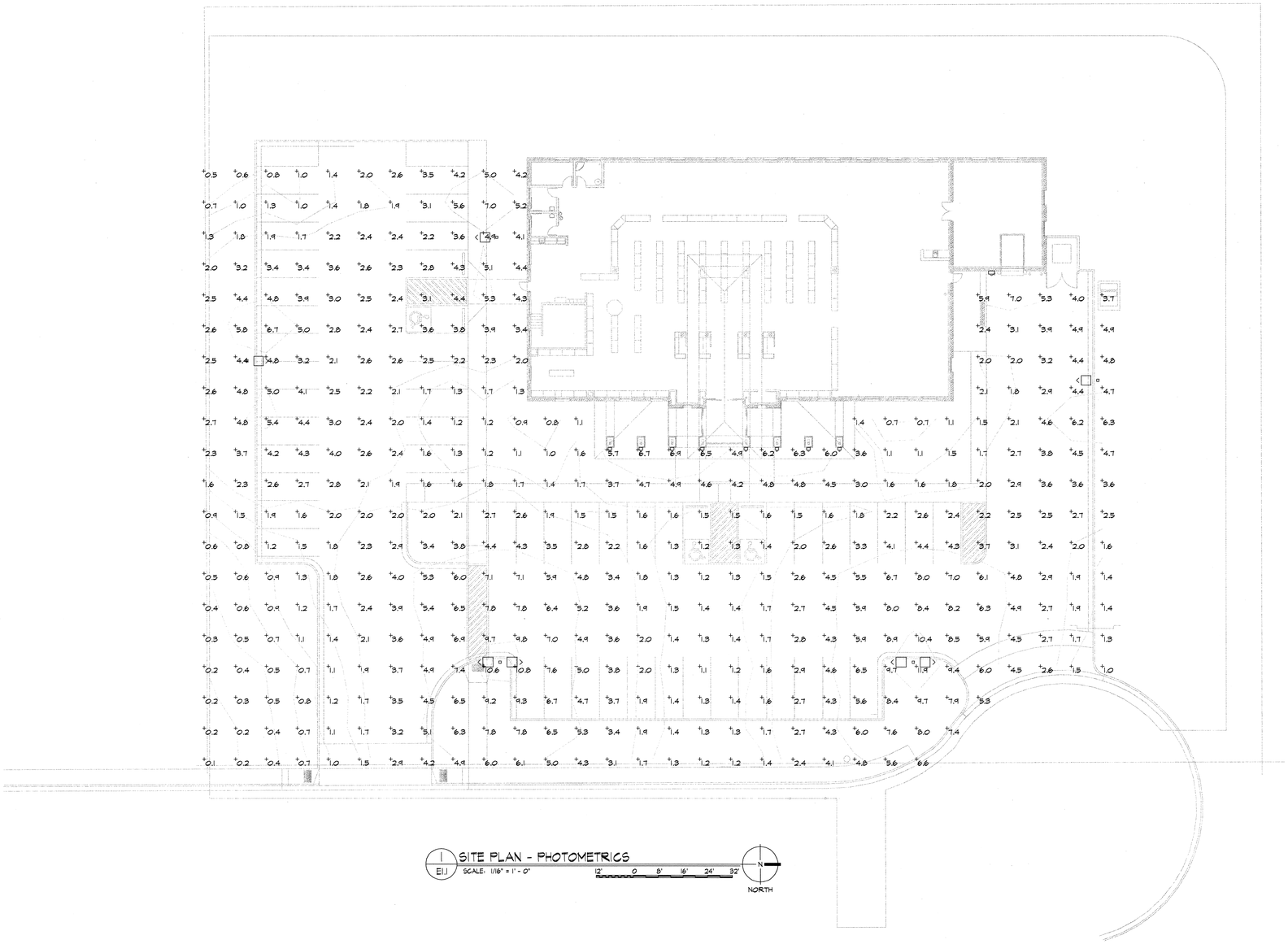

1 / E1.1 SITE PLAN - PHOTOMETRICS

SCALE: 1/16" = 1'-0"

12' 0 8' 16' 24' 32'

N NORTH

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E102

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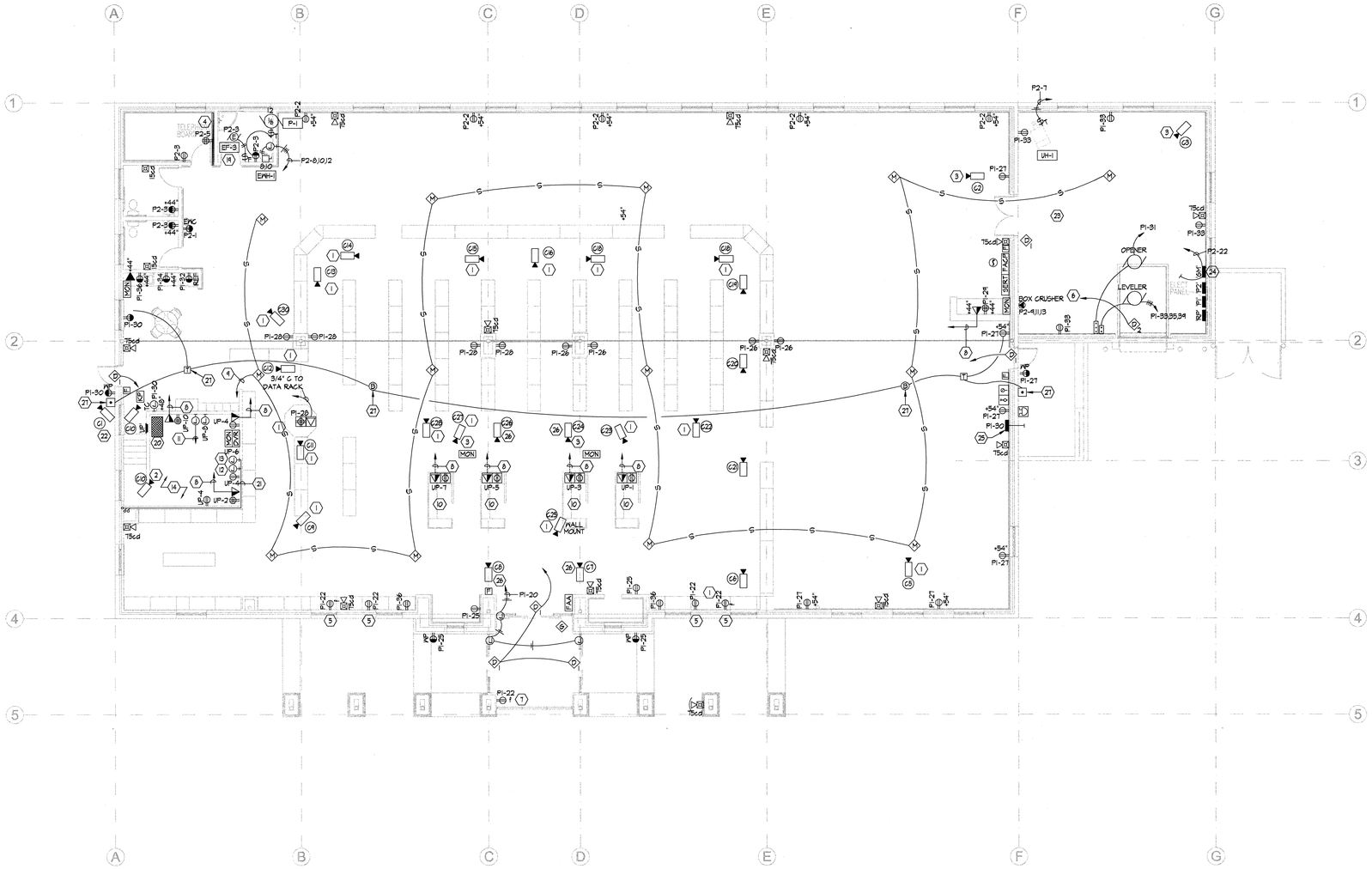

GENERAL NOTES:

1. PROVIDE AND INSTALL A ¾" CONDUIT WITH SECURITY SYSTEM WIRE FROM EACH SECURITY DEVICE TO THE SECURITY PANEL LOCATED IN THE OFFICE.
2. ALL CABLES AND RACEWAYS INSTALLED UNDER METAL CORRUGATED ROOF DECK SHALL BE INSTALLED AND SUPPORTED TO THE NEAREST OUTSIDE SURFACE IF THE CABLE OR RACEWAY IS NOT LESS THAN 1½" FROM THE NEAREST SURFACE OF THE ROOF DECKING.

KEYED NOTES (#):

1. SECURITY CCTV CAMERA TO BE STEM MOUNTED ON A PEDESTAL (18" TO 24" AS REQUIRED) TO CLEAR LIGHTING FIXTURES. PROVIDE AND INSTALL A ¾" CONDUIT TO CCTV/SECURUTY PANEL LOCATED IN THE OFFICE.
2. SECURITY CCTV CAMERA TO BE STEM MOUNTED ON A PEDESTAL (18" TO 24" AS REQUIRED) TO CLEAR LIGHTING FIXTURES. CAMERA TO BE POINTED AT OFFICE SAFE. PROVIDE AND INSTALL A ¾" CONDUIT WITH COAXIAL CABLE (AS SPECIFIED BY THE SECURITY SYSTEM EQUIPMENT SUPPLIER/CONTRACTOR) TO CCTV/SECURUTY PANEL LOCATED IN THE OFFICE. SEE CCTV RISER DIAGRAM.
3. PUBLIC VIEWING SECURITY CCTV LCD MONITOR.
4. TELEPHONE/DATA BOARD (SEE TELEPHONE/DATA RISER DIAGRAM).
5. DUPLEX RECEPTACLE FOR SIGNAGE. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHT. CIRCUIT VIA LIGHTING CONTROL PANEL (SEE LIGHTING CONTROL DETAIL AND SCHEDULE).
6. SECURITY SYSTEM DEVICE. WIRE TO SECURITY PANEL IN 3/4" CONDUIT.
7. OUTLET MOUNTED AT +84" FOR "OPEN" SIGN. CIRCUIT VIA LIGHTING CONTROL PANEL (SEE LIGHTING CONTROL DETAIL AND SCHEDULE). SEE LIGHTING PLAN FOR OVERRIDE SWITCH LOCATION.
8. (1)-1" CONDUIT WITH NYLON PULL STRING TO THE DATA RACK AND (1)-1"CONDUIT WITH NYLON PULL STRING TO THE TELEPHONE BOARD. SEE SHEET TELEPHONE/DATA RISER DIAGRAM.
9. ¾" CONDUIT WITH SECURITY SYSTEM WIRE TO SECURITY PANEL.
10. SEE POINT OF SALE UNDER COUNTER DETAIL.
11. DATA RACK. 2" CONDUIT WITH NYLON PULL STRING TO MAIN TELEPHONE BOARD.
12. CCTV SYSTEM JUNCTION BOX, SIZE AS REQUIRED. ROUTE TO CCTV EQUIPMENT IN RACK UNDER COUNTER MONITOR ON DESK.
13. JUNCTION BOX FOR CCTV SYSTEM POWER SUPPLY.
14. SEE ARCHITECTURAL INTERIOR AND CABINET ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT IN OFFICE AREA. ARCHITECTURAL ELEVATIONS TAKE PRECEDENCE OVER THESE DRAWINGS FOR ALL OUTLET AND EQUIPMENT LOCATIONS.
15. JUNCTION BOX FOR SPRINKLER CONTROLLER, PROVIDED BY OTHERS, INSTALLED BY THE ELECTRICAL CONTRACTOR.
16. 2" CONDUIT WITH NYLON PULL STRING, STUB CAP AND MARK FOR SPRINKLER CONTROLS.
17. EUSERC RATED CT/MAIN BREAKER CABINET (SEE ONE LINE DIAGRAM).
18. METER BASE (SEE ONE LINE DIAGRAM).
19. UNIT LOCATED ON ROOF.
20. UPS SYSTEM.
21. (2)-3" CONDUITS WITH NYLON PULL STRING TO STRUCTURE FOR VIDEO CABLES TO CAMERAS AND MONITORS.
22. SECURITY CCTV CAMERA TO BE MOUNTED ON WALL AS REQUIRED IN A SECURITY ENCLOSURE. PROVIDE AND INSTALL A ¾" CONDUIT TO CCTV/SECURUTY PANEL LOCATED IN THE OFFICE.
23. ROOF HATCH SECURITY DOOR CONTACT.
24. GUTTER MELT SYSTEM CONTROLLER.
25. SPRINKLER CONTROLLER. STUB 2" CONDUIT OUT OF BUILDING BELOW GRADE FOR VALVE CONTROL WIRES.
26. CAMERA DOME MOUNTED TO CEILINGS.
27. DOOR SIGNALING SYSTEM. EDWARDS #850 PUSH BUTTON, #130 BUZZER, #140 BELL AND #590 TRANSFORMER.

A / E201 FLOOR PLAN - POWER & SYSTEMS

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

6' 0 4' 8' 12' 16'

NORTH

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FLOOR PLAN - POWER & SYSTEMS

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REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN P. LEVORSEN
STATE OF UTAH
4/1/10

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E201

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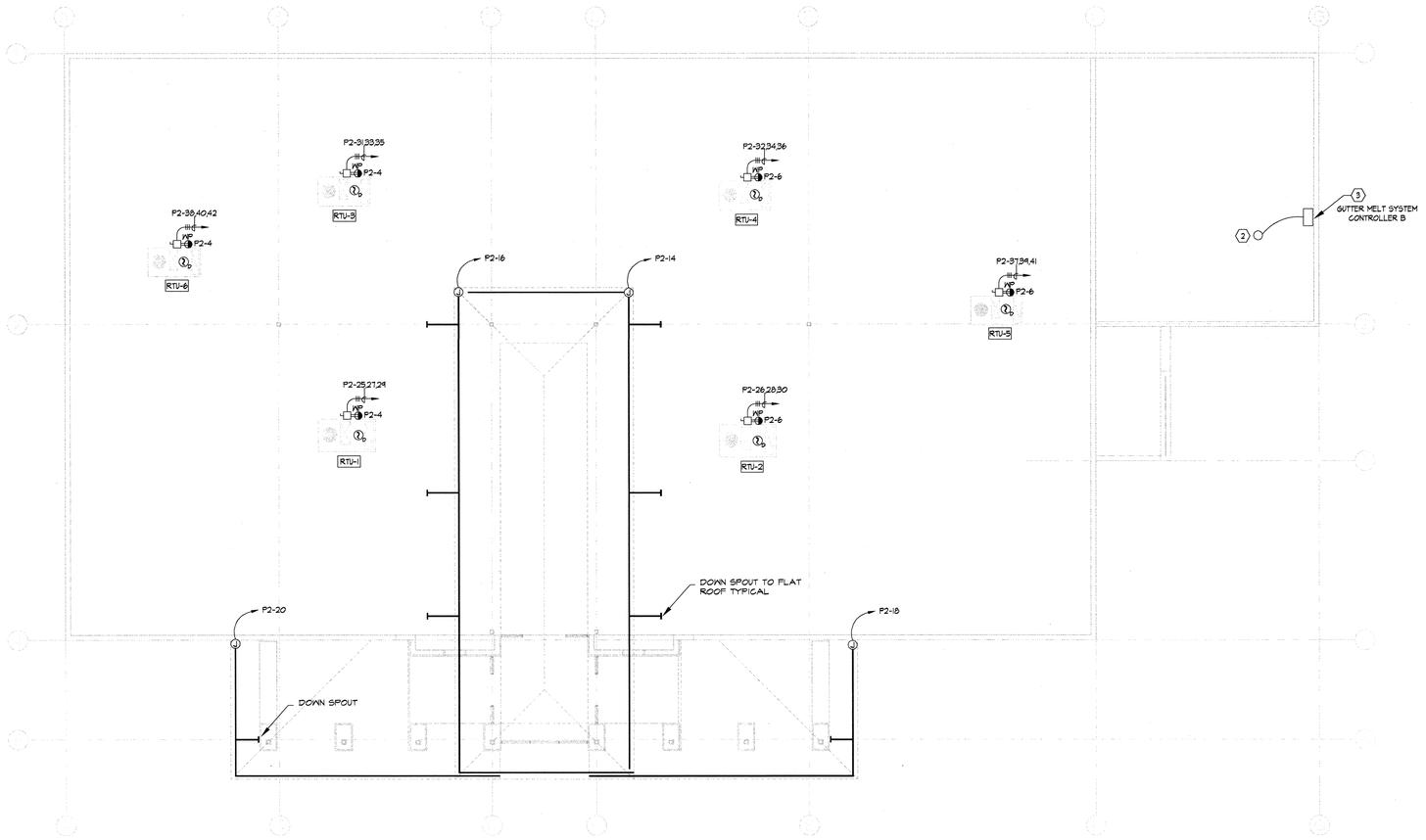

A E202 ROOF PLAN - POWER

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

6' 0 4' 8' 12' 16'

N NORTH

KEYED NOTES (#):

1. GUTTER MELT CIRCUIT TO PANEL VIA SNOW MELTING SYSTEM CONTROLLER.
2. GUTTER MELT SYSTEM TEMPERATURE / MOISTURE SENSOR WIRE TO SYSTEM CONTROLLER.
3. GUTTER MELT SYSTEM CONTROLLER IN DOCK BELOW.

NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

ROOF PLAN - POWER

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E202

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xhibit, Apr 1, 2010 - 3:21 PM, Date Plotted: Apr 1, 2010 - 4:00 PM X:\Projects\2008\08226-00-Ov - Liquor Store - Springville\E20-E202 - 08226-01.dwg

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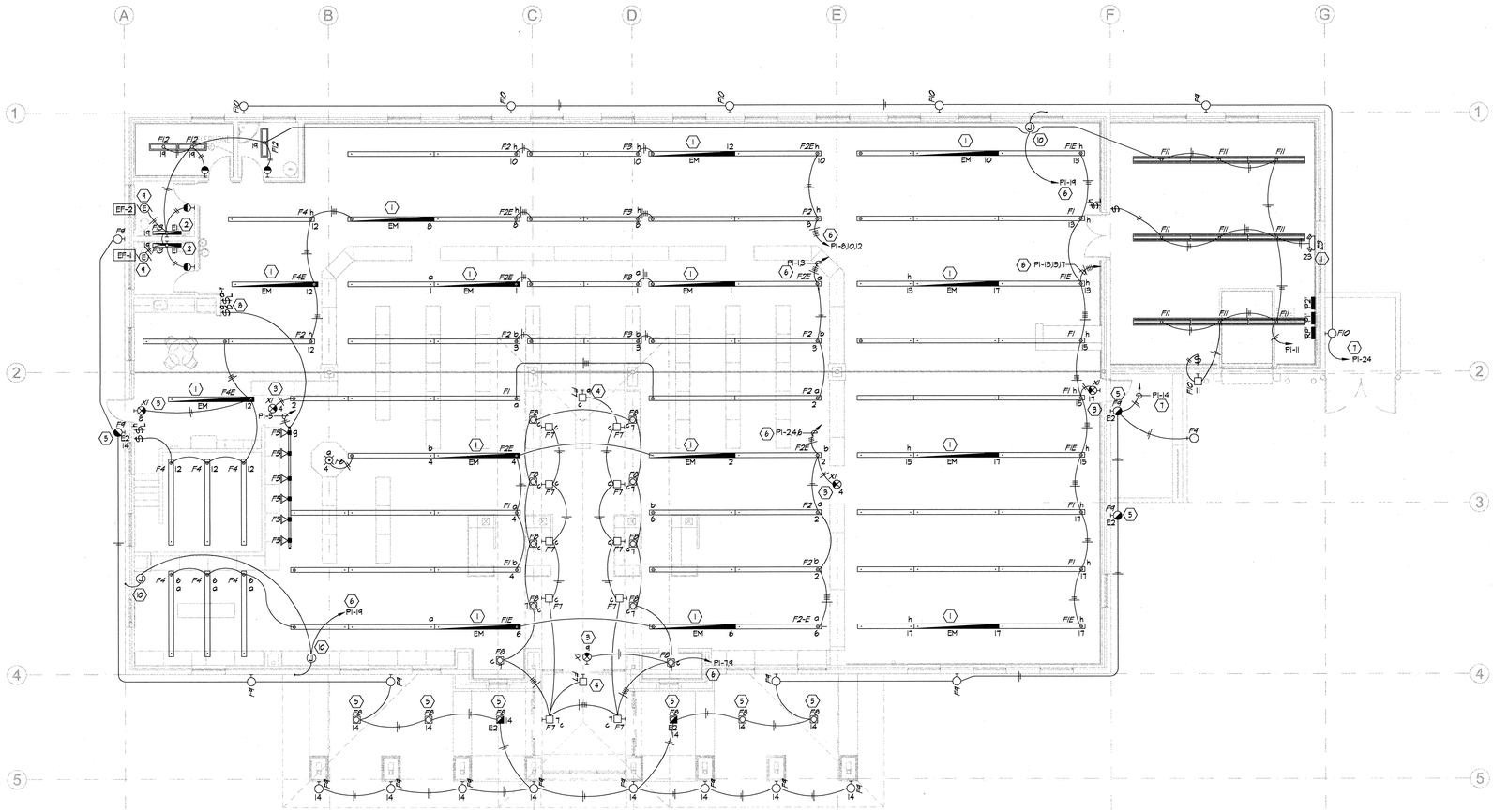

A FLOOR PLAN - LIGHTING
E301 SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. ALL WALL MOUNTED MOTION SENSORS SHALL BE A DUAL TECHNOLOGY MOTION SENSOR WITH INTEGRAL OVERRIDE SWITCH. MOTION SENSOR TO MOUNT IN A STANDARD SWITCH BOX. MOTION SENSOR TO HAVE A FIFTEEN MINUTE TIME DELAY SET AT TEN MINUTES. USE WATT-STOPPER SENSOR SWITCH OR APPROVED EQUAL.
2. ALL CEILING MOUNTED MOTION SENSORS SHALL BE A DUAL TECHNOLOGY MOTION SENSOR WITH POWER PACK AS REQUIRED TO CONTROL LIGHTING. MOTION SENSOR TO HAVE A FIFTEEN MINUTE DELAY SET AT TEN MINUTES. CONTRACTOR TO SUBMIT FLOOR PLAN TO MOTION SENSOR SUPPLIER FOR FACTORY TO LOCATE MOTION SENSOR FOR OPTIMAL PERFORMANCE TO AVOID NUISANCE SHUT OFF OF LIGHTING. MANUFACTURERS LAYOUT PLAN TO BE PART OF SUBMITTALS. PROVIDE SUFFICIENT BOX DEPTH AND CORRECT PLASTER RING TO ACCOMMODATE ACTUAL RELAY UNIT AND OCCUPANCY SENSOR INSTALLED. PROVIDE PROPER SEPARATION OF 120 VOLT AND CLASS 2 WIRING AS NECESSARY IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. USE WATT-STOPPER SENSOR SWITCH OR APPROVED EQUAL.
3. SUB-LETTERS NEXT TO SWITCHES INDICATE SWITCHING ASSIGNMENTS. ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, JUNCTION BOXES, ETC., AS REQUIRED TO EXTEND CIRCUITING FROM WALL BOX AND/OR THE LIGHTING CONTROL PANEL TO FIXTURES FOR SWITCHING ASSIGNMENTS. LOWER CASE LETTERS ON OR NEAR FIXTURES INDICATE CONTROLLING SWITCHES. SWITCH LE2(S) NOT SHOWN.
4. ARCHITECTURAL REFLECTED CEILING PLAN TAKES PRECEDENCE OVER THIS PLAN FOR FIXTURE LOCATIONS AND PLACEMENT. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURE MOUNTING HEIGHTS.
5. ALL CABLES AND RACEWAYS INSTALLED UNDER METAL CORRUGATED ROOF DECK SHALL BE INSTALLED AND SUPPORTED TO THE NEAREST OUTSIDE SURFACE IF THE CABLE OR RACEWAY IS NOT LESS THAN 1½" FROM THE NEAREST SURFACE OF THE ROOF DECKING.

KEYED NOTES (#):

1. EMERGENCY LIGHT FIXTURE TO BE UNSWITCHED. PROVIDE CONTINUOUS CIRCUIT (SEE EMERGENCY BALLAST OPERATION DETAIL).
2. EMERGENCY LIGHT FIXTURE TO BE SWITCHED (SEE EMERGENCY BALLAST OPERATION DETAIL).
3. EXIT SIGN TO BE UNSWITCHED. PROVIDE CONTINUOUS CIRCUIT.
4. NITE LIGHT FIXTURE TO BE ON CONTINUOUS UNSWITCHED CIRCUIT.
5. EMERGENCY EGRESS FIXTURE ON BATTERY PACK (SEE EMERGENCY BALLAST OPERATION DETAIL). FIXTURE TO BE CONTROLLED VIA LIGHTING CONTROL PANEL 'RP'.
6. CIRCUIT VIA LIGHTING CONTROL PANEL 'RP' (SEE LIGHTING CONTROL DETAIL). PROVIDE A SWITCHED AND UNSWITCHED CIRCUIT(S) AS REQUIRED.
7. CIRCUIT VIA LIGHTING CONTROL PANEL 'RP' (SEE LIGHTING CONTROL DETAIL).
8. LOW VOLTAGE SWITCH BANK FOR SWITCHES a THRU f (SEE LIGHTING CONTROL DETAIL) AND LIGHT TRACK DIMMER CONTROL.
9. UNIT LOCATED ON ROOF.
10. JUNCTION BOX AND CIRCUIT FOR EXTERIOR SIGN. VERIFY EXACT LOCATION WITH PROJECT ARCHITECT PRIOR TO ROUGH-IN. WIRE THROUGH LIGHTING CONTROL PANEL.

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NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

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FLOOR PLAN - POWER & SYSTE1S

REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH
3/31/10

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E301

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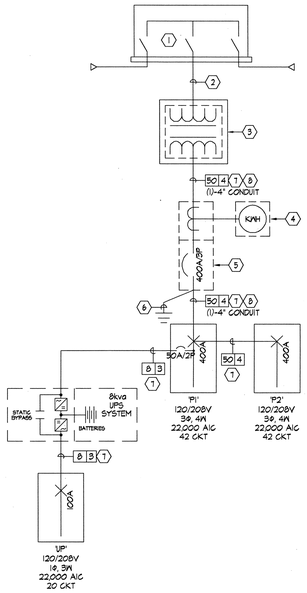
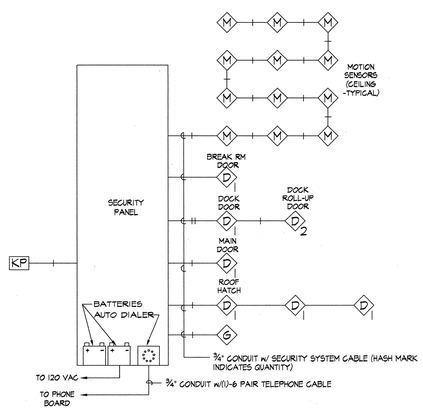
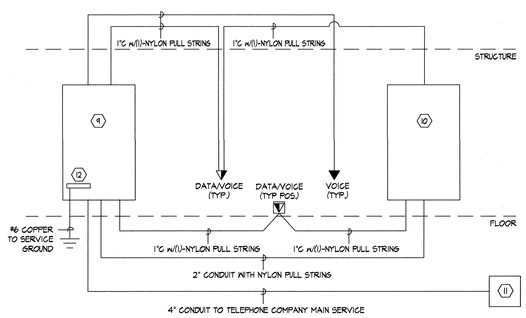


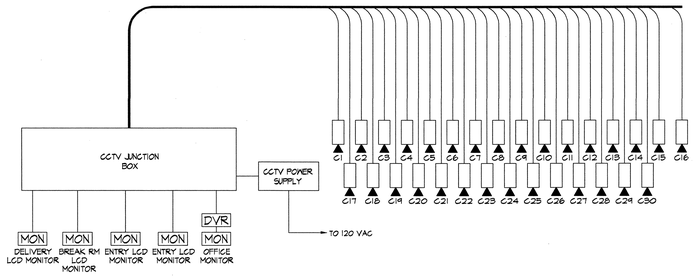
A E401 ONE LINE DIAGRAM



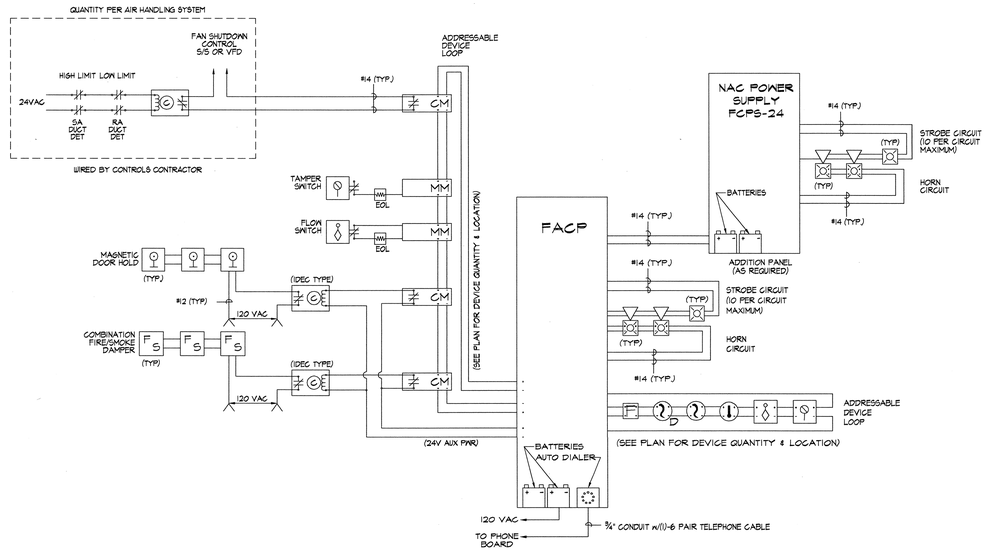
B E401 SECURITY SYSTEM RISER DIAGRAM



C E401 TELEPHONE/DATA RISER DIAGRAM



D E401 CCTV RISER DIAGRAM



E E401 FIRE ALARM RISER DIAGRAM

ROCKY MOUNTAIN POWER SERVICE ENTRANCE SCHEDULE

(SCHEDULE IS SHOWN HERE FOR REFERENCE ONLY. VERIFY LATEST VERSION WITH POWER COMPANY PRIOR TO ROUGH-IN. SEE POWER COMPANY FORM 65 031 TABLE 3)

SERVICE ENTRANCE MAX. RATING (AMPS)	SERVICE ENTRANCE CONTINUOUS DUTY (AMPS)	AVAILABLE CONDUIT RUNS	SERVICE SIZE			
			75% LOAD FACTOR		100% LOAD FACTOR	
			PHASE	NEUTRAL	PHASE	NEUTRAL
200	160	(1)-3"	(1)-4/0	(1)-2/0	(1)-4/0	(1)-2/0
400	320	(1)-4"	(1)-350	(1)-4/0	(1)-500	(1)-350
600	480	(2)-4"	(2)-350	(2)-4/0	(2)-350	(2)-4/0
800	640	(3)-4"	(3)-350	(3)-4/0	(3)-350	(3)-4/0
1,000	800	(4)-4"	(3)-350	(3)-4/0	(4)-350	(4)-4/0
1,200	960	(4)-4"	(3)-500	(3)-350	(4)-500	(4)-350
1,600	1,280	(6)-4"	(5)-500	(5)-350	(6)-500	(6)-350
2,000	1,600	(8)-4"	(6)-500	(6)-350	(8)-500	(8)-350
2,400	1,920	(9)-4"	(8)-500	(8)-350	("1)-500 CU	("1)-500 CU
3,000	2,400	(9)-5"	(SEE NOTE #4)			
4,000	3,200	(9)-5"	(SEE NOTE #4)			

NOTES:

1. ABOVE CONDUCTORS ARE CROSS-LINKED POLYETHYLENE (XLPE) INSULATED 600 VOLT ALUMINUM CABLES UNLESS OTHERS SPECIFIED.
2. SERVICE SIZES GIVEN ABOVE CAN CARRY CONTINUOUSLY (THREE HOURS OR MORE) THE SERVICE ENTRANCE LIMIT AMPERAGES GIVEN IN THE SECOND COLUMN/ IF THE ACTUAL LOAD IS ESTIMATED TO BE LESS THAN THESE VALUES, THE SERVICE SIZE MAY BE REDUCED ACCORDINGLY.
3. AFTER SELECTING SERVICE CABLES, USE CONSTRUCTION STANDARD 65 051 TO DETERMINE THE VOLTAGE DROP. IF THE VOLTAGE DROP IS GREATER THAN 3 PERCENT INSTALL THE NEXT LARGER SIZE SERVICE.
4. REFER TO TABLE 2 FOR 1500 kVA OR 2500 kVA TRANSFORMER.

CONDUIT & WIRE SCHEDULE

SYMBOL SIZE	SYMBOL QTY	CONDUIT	WIRE SIZE & TYPE	GROUND	AMPS	REMARKS
12	2	¾"	#12 THHN CU	#12 THHN CU	25	
	3	¾"				
	4	¾"				
10	2	¾"	#10 THHN CU	#10 THHN CU	30	
	3	¾"				
	4	¾"				
8	2	¾"	#8 THHN CU	#10 THHN CU	40	
	3	¾"				
	4	¾"				
6	2	¾"	#6 THHN CU	#8 THHN CU	55	
	3	¾"				
	4	¾"				
4	2	¾"	#4 THHN CU	#8 THHN CU	70	
	3	1"				
	4	1¼"				
3	2	1"	#3 THHN CU	#8 THHN CU	85	
	3	1"				
	4	1¼"				
2	2	1¼"	#2 THHN CU	#6 THHN CU	95	
	3	1¼"				
	4	1¼"				
1	2	1½"	#1 THHN CU	#6 THHN CU	110	
	3	1½"				
	4	1½"				
1A	2	1½"	#1/0 THHN CU	#6 THHN CU	150	
	3	1½"				
	4	1½"				
2A	2	1½"	#2/0 THHN CU	#6 THHN CU	175	
	3	1½"				
	4	2"				
3A	2	1½"	#3/0 THHN CU	#6 THHN CU	200	
	3	2"				
	4	2"				
4A	2	2"	#4/0 THHN CU	#4 THHN CU	230	
	3	2"				
	4	2½"				
25	2	2"	#250 KMCM THHN CU	#4 THHN CU	255	
	3	2"				
	4	2½"				
30	2	2"	#300 KMCM THHN CU	#3 THHN CU	285	
	3	3"				
	4	3"				
35	2	2"	#350 KMCM THHN CU	#3 THHN CU	310	
	3	3"				
	4	3"				
40	2	2½"	#400 KMCM THHN CU	#3 THHN CU	335	
	3	3"				
	4	3"				
50	2	3"	#500 KMCM THHN CU	#3 THHN CU	380	
	3	4"				
	4	4"				
60	2	3"	#600 KCM THHN CU	#3 THHN CU	420	
	3	4"				
	4	4"				

EXAMPLE:

3A 4 =(4)-#3/0 THHN/THWN + (1)#6 THHN/THWN GND, 2"CONDUIT

50 4 =(4)-#500kmcm THHN CU + (1)-#1/0 THHN CU GND, 4"CONDUIT
2 SETS, 2 SETS, PARALLEL FEEDERS
1/A GND.

NOTES:

1. PARALLEL RUNS REQUIRE A LARGER GROUND WIRE PER CONDUIT - SEE NATIONAL ELECTRICAL CODE.
2. WHERE THHN CONDUCTORS SHALL BE RUN UNDERGROUND, PROVIDE THWN INSULATION IN LIEU OF THHN INSULATION ON ALL UNDERGROUND CONDUCTORS.

GENERAL NOTES:

1. CONTRACTOR TO PROVIDE ALL TRENCHING AND BACKFILL POWER COMPANY TO PROVIDE AND INSTALL PRIMARY CABLE. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. ALL SERVICE WORK SHALL CONFORM TO POWER COMPANY INSTALLATION STANDARDS.

KEYED NOTES (#):

1. GROUND SLEEVE PROVIDED AND INSTALLED BY POWER COMPANY.
2. (1)-4" PRIMARY CONDUIT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. MINIMUM DEPTH 48". PRIMARY CONDUCTORS PROVIDED AND INSTALLED BY POWER COMPANY.
3. TRANSFORMER AND CONCRETE VAULT. TRANSFORMER PROVIDED AND INSTALLED BY POWER COMPANY. CONCRETE VAULT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS PER POWER COMPANY REQUIREMENTS AND SPECIFICATIONS.
4. PROVIDE AND INSTALL METER BASE AS PER POWER COMPANY SPECIFICATIONS.
5. EUSERC RATED MAIN BREAKER/CT ENCLOSURE AS PER POWER COMPANY STANDARDS. MOUNTED ON BUILDING AT A LOCATION DESIGNATED BY THE ARCHITECT.
6. #1/0 COPPER TO GROUND (SEE SERVICE GROUNDING DETAIL).
7. GROUND REQUIRED REGARDLESS OF CONDUIT TYPE.
8. TRANSFORMER SECONDARY CONDUCTORS. PROVIDE AND INSTALL CONDUIT AS SHOWN ON THE ROCKY MOUNTAIN POWER FEEDER SCHEDULE. ELECTRICAL CONTRACTOR SHALL INCLUDE FEEDER CONDUCTORS SHOWN ON THE ONE LINE DIAGRAM AS A SEPARATE LINE ITEM IN HIS BID PRICE. THIS PRICE SHALL BE FOR THE CONDUCTORS ONLY. THE CONDUIT PRICE SHOWN IN THE ROCKY MOUNTAIN POWER SCHEDULE SHALL BE INCLUDED IN THE GENERAL BID. ELECTRICAL CONTRACTOR SHALL CONTACT THE POWER COMPANY TO DETERMINE WHETHER THE POWER COMPANY OR THE ELECTRICAL CONTACTOR IS TO PROVIDE THE CONDUCTORS TO THE PROJECT. IN THE EVENT THAT THE POWER COMPANY SHALL BE PROVIDE AND INSTALL CONDUCTORS THE ELECTRICAL CONTRACTOR SHALL CREDIT BACK TO THE OWNER THE PRICE OF THE CONDUCTORS.
9. TELEPHONE TERMINAL BOARD. PROVIDE 48"W x 48"H x ¾"TH" CDX PLYWOOD PAINTED WITH THREE COATS OF FIRE RETARDANT PAINT.
10. DATA TERMINAL JUNCTION BOX. PROVIDE AND INSTALL A 12"x12"x6" JUNCTION BOX AS REQUIRED. JUNCTION BOX SHALL MEET THE STATE OF UTAH LIQUOR CONTROL COMMISSION STANDARDS AND SPECIFICATIONS.
11. 12"x24"x24" COMMUNICATIONS JUNCTION BOX AS PER UTAH STATE DEPARTMENT OF ITS AT THE PROPERTY LINE.
12. COPPER TERMINAL GROUND STRIP.
13. PROVIDE (1)-2" CONDUIT PER EIGHT CCTV VIDEO CABLES. PROVIDE AND INSTALL (2)- 2" CONDUITS TOTAL.

GENERAL FIRE ALARM NOTES:

1. COORDINATE FIRE ALARM DEVICES WITH LIGHTING FIXTURES, SPEAKERS, GRILLS, ETC.
2. DO NOT INSTALL SMOKE DETECTORS WITHIN 3'-0" OF ANY MECHANICAL GRILL.
3. FIRE ALARM CONTROL PANEL AND ANNUNCIATOR ENCLOSURES SHALL CONTAIN A FLANGE AROUND PERIMETER TO FACILITATE AND IMPROVE THE AESTHETIC TRANSITION FROM ENCLOSURE TO SHEETROCK.
4. VERIFY ANY POTENTIAL ADDITIONAL REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
5. DUCT SMOKE DETECTORS SHOWN FOR REFERENCE.COORDINATE DUCT SMOKE DETECTOR LOCATIONS WITH MECHANICAL PLANS.
6. PLANS ARE BASED UPON 44 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
7. PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS & SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
8. PLANS ARE BASED UPON 10 TOTAL STROBE LIGHTS (WHATEVER COMBINATION HORSTROBE OR INDIVIDUAL STROBES) PER CIRCUIT. PROVIDE FIRE ALARM HORN ON EXTERIOR OF BUILDING. SELECT STROBES BASED UPON ROOM SIZE AND MANUFACTURER.
9. FLOW & TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITORING DEVICES REQUIRED BY ACTUAL REQUIREMENTS.
10. HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE LOCKED HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN THE SPRINKLER HEAD.
11. ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
12. HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS (IF REQUIRED) BASED ON 70 MILLIAMPS.
13. BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 60 HOURS PLUS 25% SPARE CAPACITY.
14. VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
15. RUN SPARE LOOPS IN SAME CONDUIT.
16. PROVIDE DUCT DETECTOR AT EACH FLOOR PRIOR TO CONNECTION TO A COMMON RETURN & PRIOR TO RE-CIRCULATING OR REFRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY & SERVING MORE THAN ONE STORY.
17. PROVIDE MANUAL PULL STATIONS IN BOILER ROOM.
18. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS & PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.
19. PROVIDE AND INSTALL SMOKE DETECTOR AND/OR DUCT SMOKE DETECTOR WITHIN 5'-0" OF A SMOKE/FIRE DAMPER AS PER REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

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NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

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ELECTRICAL RISER DIAGRAMS

REVISION # DATE:

DFCM PROJECT NO.:
08226030
CONST. DOC.
FILE NAME: ABCSV-AS101
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: RKR
DATE: MARCH 2010

E401

By: bwhite, Apr 1, 2010 - 3:27 PM, Date Plotted: Apr 1, 2010 - 3:59 PM X:\Projects\2008\08226.00-01-Liquor Store - Springville\E401 - 08226.01.dwg

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LIGHT FIXTURE SCHEDULE

FIXTURE NUMBER	FIXTURE MANUFACTURER	FIXTURE CATALOG #	DESCRIPTION	LAMPS TYPE	LAMPS QTY.	FIXTURE VOLTS	FIXTURE WATTS	FIXTURE MOUNTING	REMARKS
F1	AXIS DMG	5O59N-32-T8-2-5CBA-E-36-G E565-D1-AC-(ADJ.)-2-T8-32-*FBL/STL-CBA	32 FOOT PENDANT DIRECT	F32T8/SP35 ECO	16	120	528	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F1E	AXIS DMG	5O59N-32-T8-2-5CBA-E-36-B1100-G E565-D1-AC-(ADJ.)-2-T8-32-*FBL/STL-CBA-EM	32 FOOT PENDANT DIRECT W/EM	F32T8/SP35 ECO	16	120	528	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS PROVIDE WITH ELECTRONIC EM BALLAST
F2	AXIS DMG	5O59N-24-T8-2-5CBA-E-36-G E565-D1-AC-(ADJ.)-2-T8-24-*FBL/STL-CBA	24 FOOT PENDANT DIRECT	F32T8/SP35 ECO	12	120	396	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F2E	AXIS DMG	5O59N-24-T8-2-5CBA-E-36-B1100-G E565-D1-AC-(ADJ.)-2-T8-24-*FBL/STL-CBA-EM	24 FOOT PENDANT DIRECT W/EM	F32T8/SP35 ECO	12	120	396	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS PROVIDE WITH ELECTRONIC EM BALLAST
F3	AXIS DMG	5O59N-16-T8-2-5CBA-E-36-G E565-D1-AC-(ADJ.)-2-T8-16-*FBL/STL-CBA	16 FOOT PENDANT DIRECT	F32T8/SP35 ECO	8	120	264	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F4	AXIS DMG	5O59N-12-T8-2-5CBA-E-36-G E565-D1-AC-(ADJ.)-2-T8-12-*FBL/STL-CBA	12 FOOT PENDANT DIRECT	F32T8/SP35 ECO	6	120	198	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS
F4E	AXIS DMG	5O59N-12-T8-2-5CBA-E-36-B1100-G E565-D1-AC-(ADJ.)-2-T8-12-*FBL/STL-CBA-EM	12 FOOT PENDANT DIRECT W/EM	F32T8/SP35 ECO	6	120	198	PENDANT	PROVIDE WITH ELECTRONIC BALLASTS PROVIDE WITH ELECTRONIC EM BALLAST
F5	HALO CAPRI	L652-ACCW/L2R1330 CTB-ACCW/CTB0935	PENDANT MOUNTEDTRACK AND TRACK LIGHTING	70W PAR 30	1	75	75	PENDANT MOUNTED TRACK	PROVIDE ALL LIVE ENDS, DEAD ENDS, CABLE, ETC. AS REQUIRED
F6	SHAPER OMEGA	461-CFL/1/26-SAL DM61H26PLTPCC59FFN	PENDANT MOUNTED FLOURESCENT	26DTT	1	120	27	PENDANT	PROVIDE WITH ELECTRONIC BALLAST
F7	AMETRIX LAM	VP-51-P-1-EO70-W-Y104 HAA-150-70CMH78-10M-MAH3-11-56W-PM	70 WATT METAL HALIDE UPLIGHT	70W MH	1	120	80	SURFACE WALL	PROVIDE WITH ELECTRONIC BALLAST
F8	PORTFOLIO OMEGA	C6042-E-6001-LI S632PLTU-T6CS	FLUOR. DOWNLIGHT W/AZAK TRIM 32 TRT LAMP	32 TRT	8	120	34	RECESSED	PROVIDE WITH ELECTRONIC BALLAST
F9	INVUE	ENV-42-CF-EB-35-BZ-CF6	WALL SCONCE	42 TRT	1	120	45	SURFACE WALL	COLOR TO BE SELECTED BY ARCHITECT
F10	DAYBRITE LUMARK	WLD100M-LP MH6P-100H-MT-LL	100 WATT METAL HALIDE WALL PACK	100W MH	1	120	118	SURFACE WALL	
F11	METALUX DAYBRITE	8TIA-232-EBBI TIA232-I/4EB	96" INDUSTRIAL FLUORESCENT (TANDEM)	F32T8/SP35 ECO	8	120	132	SURFACE/CHAIN	PROVIDE WITH ELECTRONIC BALLAST
F12	METALUX DAYBRITE	W6-232A-EBBI CAN232-I/2EB	1X4 SURFACE FLUORESCENT (2 LAMP)	F32T8/SP35 ECO	2	120	66	SURFACE CEILING	PROVIDE WITH ELECTRONIC BALLAST
F13	DAYBRITE METALUX	CD 232N-2/I-EB BE-232-EBBI	48" WALL MTD. FLUORESCENT WITH 2-LAMP	F32T8/SP35 ECO	2	120	66	SURFACE WALL	PROVIDE WITH ELECTRONIC BALLAST
E1	BODINE IOTA	B50 I-320	EMERGENCY BALLAST ((2)-4 FOOT T-8 LAMP)	----	1	120	----	----	EMERGENCY BALLAST (1)-4 FOOT T8 LAMP, 1100 LUMENS MIN. VERIFY COMPATIBILITY BEFORE ORDERING
E2	BODINE IOTA	B4CFI ICE-420-EM-I	EMERGENCY BALLAST ((1)-34 WATT COMPACT FLUORESCENT, COLD WEATHER)	----	----	120	----	----	EMERGENCY BALLAST COMPACT FLUOR. COLD WEATHER VERIFY COMPATIBILITY BEFORE ORDERING
E3	SURE-LITES McPHILBEN	CC-6-WH GT6	2-HEAD EM WALL PACK (SURFACE)	INCLUDED	2	120	5.4	SURFACE WALL	
X1	ISOLITE McPHILBEN	LPDCEM55-WHWHG EK55L-1-WB	POWERED SINGLE FACE EXIT W/ "EM" BATTERY PACK	INCLUDED	2	120	11.2	UNIVERSAL	NICKEL/CADMIUM BATTERY SINGLE FACE EXIT

NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE A 'QUICK DISCONNECT HARNESS' FOR EACH FLUORESCENT LIGHTING FIXTURE TO SERVE AS A MEANS OF DISCONNECT TO ALLOW THE FIXTURE BALLAST TO BE SERVICED IN PLACE, AS PER THE NATIONAL ELECTRICAL CODE 2008, ARTICLE 410.130 (G).

SITE LIGHTING FIXTURE SCHEDULE

FIXT #	FIXTURE MANUFACTURER	FIXTURE CATALOG #	FIXTURE VOLTS	FIXTURE #POLE	FIXTURE WATTS	FIXTURE MOUNTING	LAMPS TYPE	LAMPS QTY/FIXT.	POLE MANUFACTURER	POLE HEIGHT	POLE CATALOG #	REMARKS
SF1	INVUE GARDCO	1CM-400-MH-55-BZ-PRCPR 6(8)13XL400PSMH-SCBA	208	1	465	POLE	400W MH	1	INVUE	25'-0"	SRT-25-5-BZ-K-1-5-H TR5251D15CBA	
SF2	INVUE GARDCO	1CM-400-MH-55-BZ-PRCPR 6(8)13XL400PSMH-SCBA	208	2	930	POLE	400W MH	1	INVUE	25'-0"	SRT-25-5-BZ-K-1-5-H TR5251D15CBA	

LIGHTING CONTROL PANEL

Name: RP
VOLTS: 120/208 V 3Ø, 4-WIRE
LOCATION: LOADING DOCK
MOUNTING: SURFACE

RELAY #	AMP	POLE	SUPPLY	AREA SERVED	LV SWITCH*	AUTOMATION SCHEDULE A	B	C	D	E
1	20	1	P1-1	RETAIL LT6	a		X			
2	20	1	P1-3	RETAIL LT6	b		X			
	20	1	P1-2	RETAIL LT6	a		X			
4	20	1	P1-4	RETAIL LT6	b		X			
5	20	1	P1-6	RETAIL LT6	a		X			
6	20	1	P1-7	RETAIL LT6	b		X			
7	20	1	P1-9	RETAIL LT6	a		X			
8	20	1	P1-11	RETAIL LT6	b		X			
9	20	1	P1-11	RETAIL DOWNLIGHTS	c		X			
10	20	1	P1-11	CHECKOUT LT6	d		X			
11	20	1	P1-11	KINES LT6	e		X			
12	20	1	P1-22	SIGN RCPT	f	X				
13	20	1	P1-8	STORAGE LT6	g		X			
14	20	1	P1-10	STORAGE LT6	g		X			
15	20	1	P1-12	STORAGE LT6	g		X			
16	20	1	P1-13	STORAGE LT6	g		X			
17	20	1	P1-15	STORAGE LT6	g		X			
18	20	1	P1-17	STORAGE LT6	g		X			
19	20	1	P1-14	EXTERIOR LT6					X	
20	20	2	P1-16/8	PARKING LT6					X	
21	--	--	----------	----------					X	
22				SPACE						
23				SPACE						
24				SPACE						

Automation Schedules: (A) Auto ON / Auto OFF
(B) Manual ON / Auto OFF
(C) Dusk - Dawn
(D) Dusk - Auto OFF
(E) Daylight Sensor

* SEE PLAN FOR LOCATION OF LOW VOLTAGE SWITCH

NOTE: ELECTRICAL CONTRACTOR TO PROVIDE SPACE IN THIS PANEL FOR FUTURE EXPANSION

EQUIPMENT SCHEDULE

UNIT #	DESCRIPTION	ELECTRICAL LOAD	VOLTS	PHASE	AMPS	REFERENCE NOTES DISCONNECT	SIZE (AMPS)	FUSE (AMPS)	STARTER SIZE	ENCLOSURE	REMARKS
RTU-1	ROOFTOP UNIT	16248 VA	208	3	45.1	1A	60	--	--	1T	
RTU-2	ROOFTOP UNIT	16248 VA	208	3	45.1	1A	60	--	--	1T	
RTU-3	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	60	--	--	1T	
RTU-4	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	60	--	--	1T	
RTU-5	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	60	--	--	1T	
RTU-6	ROOFTOP UNIT	11348 VA	208	3	31.5	1A	60	--	--	1T	
EF-1	EXHAUST FAN	1/6 HP	120	1	4.4	1A	--	--	--	--	
EF-2	EXHAUST FAN	1/6 HP	120	1	4.4	1A	--	--	--	--	
EF-3	EXHAUST FAN	1/6 HP	120	1	4.4	1A	--	--	--	--	
UH-1	UNIT HEATER	1/12 HP	120	1	3.0	4A	--	--	--	1G	
P-1	RECIRC PUMP	1/8 HP	120	1	3.8	4A	--	--	--	1G	
EWH-1	ELECTRIC WATER HEATER	2183 VA	208	1	10.4	1A	30	--	--	1G	

NOTES:
1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER WITH THERMAL OVERLOAD
5. MAGNETIC STARTER
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/BREAKER COMBINATION
9. VARIABLE SPEED DRIVE
10. REDUCED VOLTAGE STARTER
11. DIRECT CONNECTION
12. RECEPTACLE/SPECIAL PURPOSE OUTLET ETC.
13. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE
14. MAXIMUM CIRCUIT AMPS (MCA)
15. FULL LOAD CURRENT
16. PROVIDE WITH NEMA 1 ENCLOSURE
17. PROVIDE WITH NEMA 3R ENCLOSURE

A. FURNISHED, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION, FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
C. FURNISHED UNDER ANOTHER DIVISION, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
D. FURNISHED, INSTALLED AND FINAL CONNECTION UNDER ANOTHER DIVISION.

OVERCURRENT PROTECTION DEVICES:
CB = THERMAL MAGNETIC CIRCUIT BREAKER
FN = FUSE, NON-INDUCTIVE LOAD
FI = FUSE, INDUCTIVE LOAD
MO = MAGNETIC ONLY CIRCUIT BREAKER
NA = NOT APPLICABLE

GENERAL NOTES:
1. VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS PRIOR TO STARTING ROUGH IN.
2. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.
3. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW.

PANEL SCHEDULE

PANEL: P1
VOLTAGE: 208 / 120 PHASE: 3
MOUNTING: SURFACE WIRE: 4
ENCLOSURE: NEMA 1
REMARKS: PROVIDE WITH SUB-FEED LUGS
BUS AMPS: 400
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRENT AMPS: N/A
MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)
USE: E = Equipment Load, L = Lighting Load, R = Receptacle Load, M = Motor Load, K = Kitchen Equipment

BREAKER No.	AMPS	POLE	KEYED NOTE	CIRCUIT NAME	FEEDER C	WIRE	GRD	CKT. LOAD USE	WATTS	LOAD/PHASE (VA) φA	φB	φC	CKT. LOAD WATTS	USE	FEEDER GRD	WIRE	C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	AMPS	No.
1	20	1		RETAIL LT6	3/4"	#10	#10	L	1,056	1,953			847	L	#10	#10	3/4"	RETAIL LT6		1	20	2
3	20	1		RETAIL LT6	3/4"	#10	#10	L	1,056		1,953		847	L	#10	#10	3/4"	RETAIL LT6		1	20	4
5	20	1		TRACK LT6	3/4"	#10	#10	L	1,000			1,944	944	L	#10	#10	3/4"	RETAIL LT6		1	20	6
7	20	1		RETAIL LT6	3/4"	#10	#10	L	1,848	3,564			1,716	L	#10	#10	3/4"	STORAGE LT6		1	20	8
9	20	1		RETAIL LT6	3/4"	#10	#10	L	1,848		3,564		1,716	L	#10	#10	3/4"	STORAGE LT6		1	20	10
11	20	1		RETAIL LT6	3/4"	#10	#10	L	1,210			2,860	1,650	L	#10	#10	3/4"	STORAGE LT6		1	20	12
13	20	1		STORAGE LT6	3/4"	#10	#10	L	1,584	2,434			850	L	#10	#10	3/4"	EXTERIOR LT6		1	20	14
15	20	1		STORAGE LT6	3/4"	#10	#10	L	1,584		2,584		1,000	L	#10	#10	1"	PARKING LT6		2	20	16
17	20	1		STORAGE LT6	3/4"	#10	#10	L	1,452			2,452	1,000	L	--	#10	--	----------		--	--	18
19	20	1		RESTRM/STORAGE LT6	3/4"	#12	#12	L	396	846			500	L	#12	#12	3/4"	AUTOMATIC DOOR		1	20	20
21	20	1		DOCK LT6	3/4"	#10	#10	L	742		942		200	L	#12	#12	3/4"	OPEN/CLOSE SIGN		1	20	22
23	20	1		SPARE														SPARE		1	20	24
25	20	1		RETAILS RCPT	3/4"	#12	#12	R	1,080	2,160			1,080	R	#12	#12	3/4"	RETAIL RCPT		1	20	26
27	20	1		STORAGE/DOCK RCPT	3/4"	#10	#10	R	1,080		2,160		1,080	R	#12	#12	3/4"	RETAIL RCPT		1	20	28
29	20	1		DOCK COMPTR	3/4"	#10	#10	R	400			900	500	E	#12	#12	3/4"	TIME CLOCK/BREAK RM RCPT		1	20	30
31	20	1		DOOR OPENER	3/4"	#10	#10	M	1,200	2,400			1,200	E	#12	#12	3/4"	REFRIGERATOR		1	20	32
33	20	1		DOCK LEVELER	3/4"	#10	#10	M	1,200		2,400		1,200	E	#12	#12	3/4"	MICROWAVE		1	20	34
35	20	1		STORAGE RCPT	3/4"	#10	#10	R	1,080			1,260	180	R	#12	#12	3/4"	BREAK RM RCPT		1	20	36
37	20	1		SPARE		#N/A	#N/A											SPARE		1	20	38
39	20	1		SPARE		#N/A	#N/A											SPARE		1	20	40
41	20	1		SPARE		#N/A	#N/A											SPARE		1	20	42

	φA	φB	φC	DEMAND
LIGHTING LOAD (VA)	8,847	9,049	7,261	25,201
LIGHTING CONTINUOUS LOAD PER NEC 210.20(A) (VA)				6,300
RECEPTACLE LOAD PER NEC 220.44 (VA)	2,180	2,180	1,880	9,480
EQUIPMENT LOAD (VA)	2,400	2,400	500	9,300
25% LARGEST MOTOR (VA)				300
KITCHEN EQUIPMENT LOAD (VA) 0 UNITS @ 100%	0	0	0	0
TOTAL LOAD (VA)	13,407	13,653	9,421	43,081
TOTAL LOAD (AMPS):	112	114	79	120

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THWN.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) BREAKER.
C. PROVIDE GFCI BREAKER.

PANEL SCHEDULE

PANEL: P2
VOLTAGE: 208 / 120 PHASE: 3
MOUNTING: SURFACE WIRE: 4
ENCLOSURE: NEMA 1
REMARKS:
BUS AMPS: 400
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRENT AMPS: N/A
MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)
USE: E = Equipment Load, L = Lighting Load, R = Receptacle Load, M = Motor Load, K = Kitchen Equipment

BREAKER No.	AMPS	POLE	KEYED NOTE	CIRCUIT NAME	FEEDER C	WIRE	GRD	CKT. LOAD USE	WATTS	LOAD/PHASE (VA) φA	φB	φC	CKT. LOAD WATTS	USE	FEEDER GRD	WIRE	C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	AMPS	No.
1	20	1		EMC	3/4"	#12	#12	E	500	1,400			900	R	#10	#10	3/4"	STORAGE RCPT		1	20	2
3	20	1		RESTRM/STOR/JAN RCPT	3/4"	#12	#12	R	720		1,260		540	R	#10	#10	3/4"	ROOFTOP RCPT		1	20	4
5	20	1		TELCO BOARD RCPT	3/4"	#12	#12	R	360			1,080	720	R	#10	#10	3/4"	ROOFTOP RCPT		1	20	6
7	20	1		UNIT HEATER UH-1	3/4"	#10	#10	M	360	1,442			1,082	E	#12	#12	3/4"	ELEC ATTK HTR EWH-1		2	20	8
9	20	2		BOX CRUSHER	3/4"	#12	#12	E	1,000		2,082		1,082	E	--	#12	--	----------		--	--	10
11	---	--		----------	---	#12	---	E	1,000			1,456	456	M	#12	#12	3/4"	PUMP P-1		1	20	12
13	20	1		SPARE						1,500			1,500	E	#10	#10	3/4"	GUTTER MELT CABLE		1	20	14
15	20	1		SPARE							1,500		1,500	E	#10	#10	3/4"	GUTTER MELT CABLE		1	20	16
17	20	1		SPARE								900	900	E	#10	#10	3/4"	GUTTER MELT CABLE		1	20	18
19	20	1		SPARE						900			900	E	#10	#10	3/4"	GUTTER MELT CABLE		1	20	20
21	20	1		SPARE							200		200	E	#10	#10	3/4"	GUTTER MELT CONTROLLER		1	20	22
23	20	1		SPARE														SPARE		1	20	24
25	60	3		ROOFTOP UNIT RTU-1	3/4"	#6	#10	E	5,416	10,832			5,416	E	#10	#6	1"	ROOFTOP UNIT RTU-2		3	60	26
27	---	---		----------	---	#6	---	E	5,416		10,832		5,416	E	---	#6	---	----------		---	---	28
29	---	---		----------	---	#6	---	E	5,416			10,832	5,416	E	---	#6	---	----------		---	---	30
31	40	3		ROOFTOP UNIT RTU-3	3/4"	#8	#10	E	3,182	7,364			3,182	E	#10	#8	3/4"	ROOFTOP UNIT RTU-4		3	40	32
33	---	---		----------	---	#8	---	E	3,182		7,364		3,182	E	---	#8	---	----------		---	---	34
35	---	---		----------	---	#8	---	E	3,182			7,364	3,182	E	---	#8	---	----------		---	---	36
37	40	3		ROOFTOP UNIT RTU-5	3/4"	#8	#10	E	3,182	7,364			3,182	E	#10	#8	3/4"	ROOFTOP UNIT RTU-6		3	40	38
39	---	---		----------	---	#8	---	E	3,182		7,364		3,182	E	---	#8	---	----------		---	---	40
41	---	---		----------	---	#8	---	E	3,182			7,364	3,182	E	---	#8	---	----------		---	---	42

	φA	φB	φC	DEMAND
LIGHTING LOAD (VA)	0	0	0	0
LIGHTING CONTINUOUS LOAD PER NEC 210.20(A) (VA)				0
RECEPTACLE LOAD PER NEC 220.44 (VA)	900	1,260	1,080	3,240
EQUIPMENT LOAD (VA)	30,302	29,742	28,316	88,360
25% LARGEST MOTOR (VA)				1,14
KITCHEN EQUIPMENT LOAD (VA) 0 UNITS @ 100%	0	0	0	0
TOTAL LOAD (VA)	31,202	31,002	29,396	91,114
TOTAL LOAD (AMPS):	260	258	245	255

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THWN.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) BREAKER.
C. PROVIDE GFCI BREAKER.

PANEL SCHEDULE

PANEL: UP
VOLTAGE: 208 / 120 PHASE: 1
MOUNTING: FLUSH WIRE: 3
ENCLOSURE: NEMA 1
REMARKS: LOAD CENTER
BUS AMPS: 100
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRANT AMPS: N/A
MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)
USE: E = Equipment Load, L = Lighting Load, R = Receptacle Load, M = Motor Load, K = Kitchen Equipment

BREAKER NO.	AMPS	POLE	KEYED NOTE		FEEDER C	WIRE	GRD	CKT. LOAD USE	WATTS	LOAD/PHASE (VA) φA	φB	CKT. LOAD WATTS	USE	FEEDER GRD	WIRE	C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	AMPS	NO.
1	20	1		POS RCPT	3/4"	#12	#12	R	500	860		360	R	#12	#12	MC	OFFICE RCPT		1	20	2
3	20	1		POS RCPT	3/4"	#12	#12	R	500		1,040	540	R	#12	#12	MC	OFFICE RCPT		1	20	4
5	20	1		POS RCPT	3/4"	#12	#12	R	500	1,000		500	E	#12	#12	MC	CCTV POWER		1	20	6
7	20	1		POS RCPT	3/4"	#12	#12	R	500		1,000	500	E	#12	#12	MC	DATA RACK		1	20	8
9	20	1		SPARE						360		360	R	#12	#12	MC	OFFICE RCPT		1	20	10
11	20	1		SPARE													SPACE				12
13				SPACE													SPACE				14
15				SPACE													SPACE				16
17				SPACE													SPACE				18
19				SPACE													SPACE				20

	φA	φB	DEMAND
LIGHTING LOAD (VA)	0	0	0
LIGHTING CONTINUOUS LOAD (VA)			0
RECEPTACLE LOAD PER NEC 220.13(A) (VA)	1,720	1,540	3,260
EQUIPMENT LOAD (VA)	500	500	1,000
25% LARGEST MOTOR			0
KITCHEN EQUIPMENT LOAD (VA) 0 UNITS @ 100% (PER NEC TABLE 220.56)	0	0	0
TOTAL LOAD (VA)	2,220	2,040	4,260
TOTAL LOAD (AMPS):	19	17	20

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THWN.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) BREAKER.
C. PROVIDE GFCI BREAKER.

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NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
1750 WEST 1500 NORTH, SPRINGVILLE, UTAH

FRANK N MURDOCK JR ■ Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

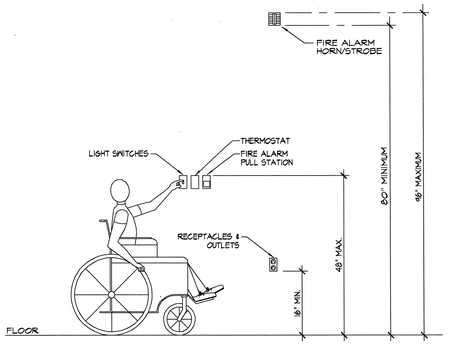
ELECTRICAL SCHEDULES

REVISION # DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-AS101
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: RKR
DATE: MARCH 2010

E501

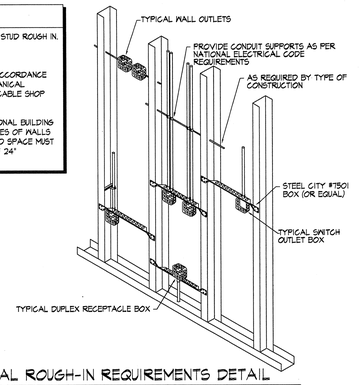
By: bwhite, Apr 1, 2010 - 3:21 PM, Date Plotted: Apr 1, 2010 - 3:58 PM X:\Projects\2008\08226.00.01-Liquor Store - Springville\E501 - 08226.01.dwg



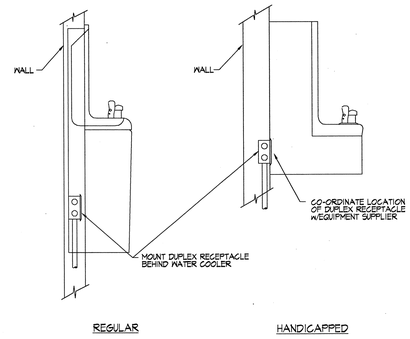
A E601 MOUNTING HEIGHTS DETAIL

NOTES:

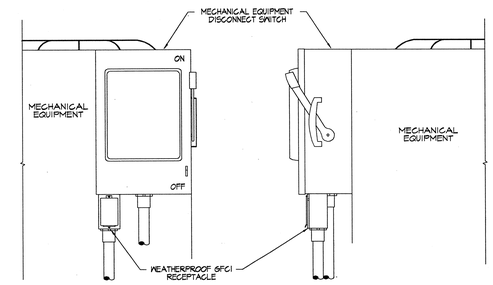
1. TYPICAL FOR WOOD AND METAL STUD ROUGH IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPERATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.



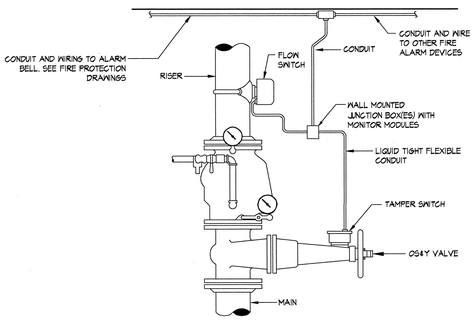
B E601 TYPICAL ROUGH-IN REQUIREMENTS DETAIL



C E601 ELECTRIC WATER COOLER DETAIL



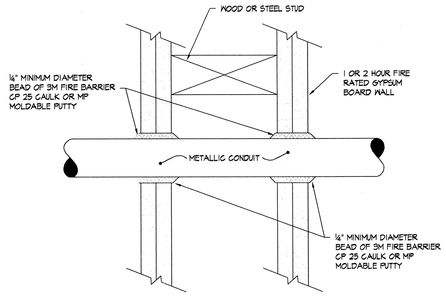
D E601 WEATHER PROOF RECEPTACLE MOUNTING DETAIL



E E601 FIRE SPRINKLER RISER CONNECTION

NOTE:

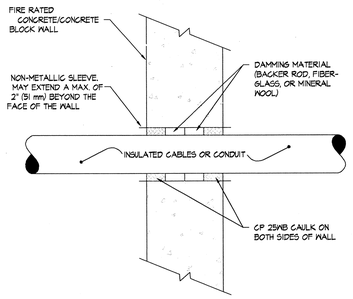
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



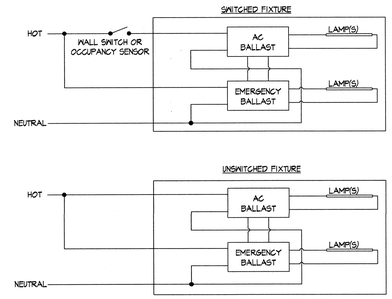
F E601 FIRE STOP THRU GYPSUM BOARD WALL

NOTE:

TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



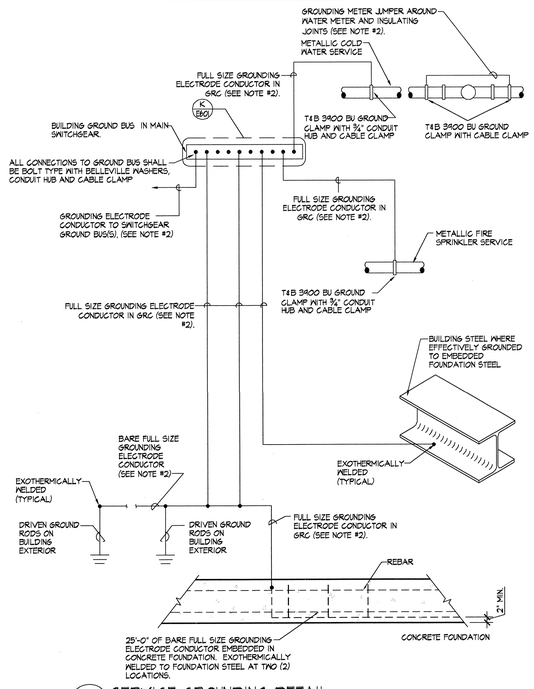
G E601 FIRESTOP THRU CONCRETE/MASONRY WALL



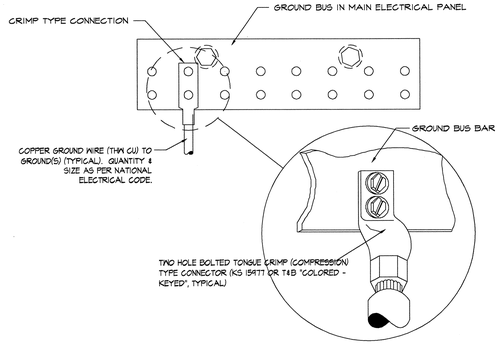
H E601 EMERGENCY BALLAST OPERATION DETAIL

NOTES:

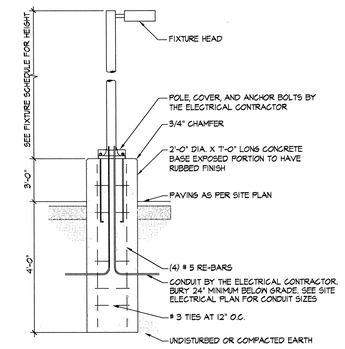
1. PROVIDE AND INSTALL ALL GROUNDING MEANS INDICATED. ELECTRICAL CONTRACTOR TO COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND PROVIDE AND INSTALL ALL GROUNDING METHODS THAT ARE AVAILABLE FOR THIS PROJECT.
2. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE ONE LINE DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUNDING SYSTEM INSTALLATION AND MATERIALS.



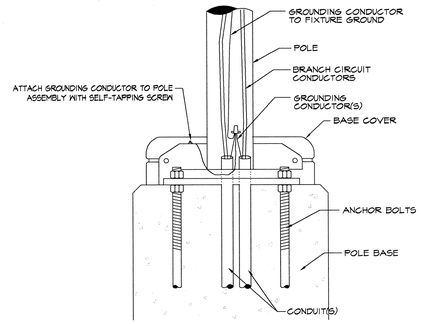
J E601 SERVICE GROUNDING DETAIL



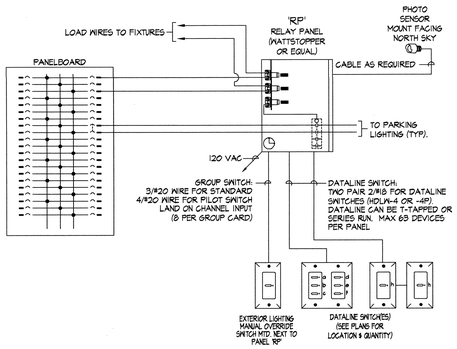
K E601 SERVICE BUS GROUNDING DETAIL



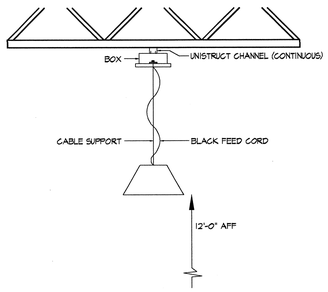
L E601 POLE BASE DETAIL



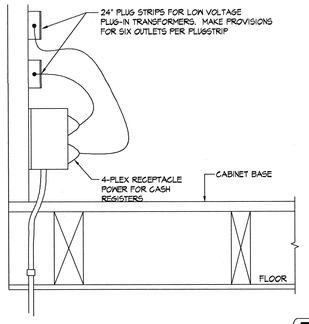
M E601 ENLARGED POLE BASE DETAIL



N E601 LIGHTING CONTROL PANEL DETAIL



P E6.2 FIXTURE MOUNTING DETAIL



Q E6.2 POINT OF SALE UNDER COUNTER DETAIL

PVE Inc. Consulting Mechanical Electrical Engineers
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NEW SPRINGVILLE LIQUOR STORE

DEPT OF ALCOHOLIC BEVERAGE CONTROL
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ELECTRICAL DETAILS

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975 East 100 South Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX (801) 532-4220

STATE OF UTAH LICENSED PROFESSIONAL ENGINEER No. 154867 DEANE L. LEVORSEN 2/11/10

REVISION #	DATE:

DFCM PROJECT NO.: 08226030
CONST. DOC.
FILE NAME: ABCSV-AS101
PLOT SCALE: 1:192
DRAWN BY: STAFF
CHECKED BY: RKR
DATE: MARCH 2010

E601

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By: bwhitlie Apr \, 2010 - 3:21 PM Date Plotted: Apr \, 2010 - 3:58 PM X:\Projects\2008\08226.00-01- Liquor Store - Springville\ESD - 08226.01.dwg