



MHTN ARCHITECTS, INC.
420 East South Temple
Suite 100
Salt Lake City, Utah 84111
Telephone (801) 595-6700
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DABC HOLLADAY STORE
DFCM No. 06232030
 1814 EAST MURRAY HOLLADAY RD.
 HOLLADAY, UT 84117

SEAL

MHTN PROJECT NO. 200852.00

DRAWN BY: _____ CHECKED BY: _____

ISSUED: _____

NO.	DATE	DESCRIPTION
1	18 AUG 2009	PLAN REVIEW COMMENTS
2	22 SEPT 2009	PLAN REVIEW #2

REVISION DATE: _____

NO. DATE DESCRIPTION

1 18 AUG 2009 PLAN REVIEW COMMENTS

2 22 SEPT 2009 PLAN REVIEW #2

REVISION DATE: _____

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SHEET INDEX & GENERAL INFORMATION

BID SET - 28 SEPT 09

SHEET NUMBER

G0.01

DABC HOLLADAY STORE

DFCM No. 06232030

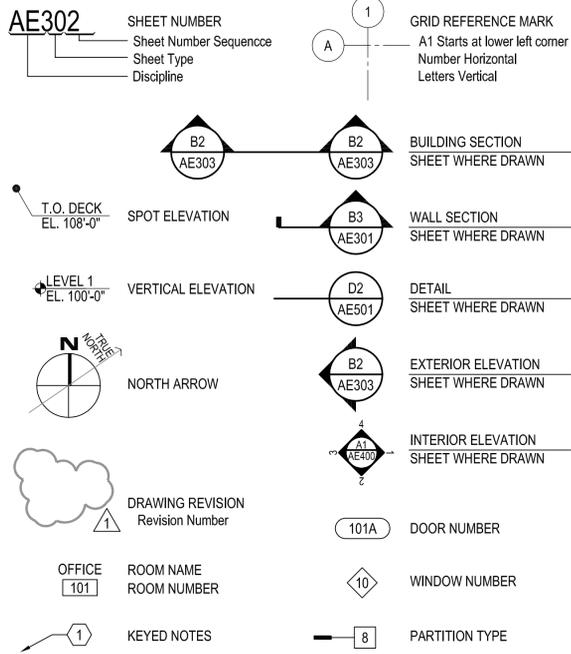
1814 EAST MURRAY HOLLADAY RD. HOLLADAY, UT 84117

ABBREVIATIONS

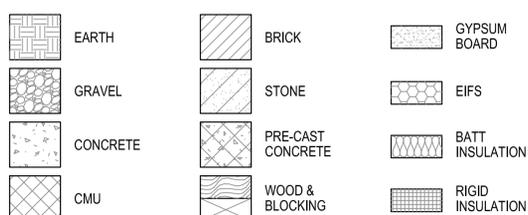
AC	Air Conditioning	EIFS	Exterior Insulation, & Finish System	OC	On Center
AFF	Above Finish Floor	FT	Feet	OPP	Opposite
ALT	Alternate	FLR	Floor	OD	Outside Diameter
APPROX	Approximate	FIN FLR	Finish Floor	OA	Overall
ARCH	Architect	FE	Fire Extinguisher	OH DR	Overhead Door
BD	Board	FR	Frame	PR	Pair
BRG	Bearing	FTG	Footing	PERP	Perpendicular
BLKG	Blocking	FD	Floor Drain	PLAM	Plastic Laminate
BLDG	Building	FR	Frame	PL GL	Plate Glass
BOT	Bottom	FTG	Footing	PLBG	Plumbing
CLG	Ceiling	FDTN	Foundation	PREFAB	Prefabricate
CL	CenterLine	GA	Gage	PL	Property Line
CO	Cleanout	GALV	Galvanize	REFR	Refrigeration
CONC	Concrete	GI	Galvanized Iron	REINF	Reinforce
CONF	Conference	GLU-LAM	Glue Laminated	REQD	Required
CONSTR	Construction	GYP BD	Gypsum Board	RD	Roof Drain
CONT	Continue	HDW	Hardware	SCHED	Schedule
CONTR	Contractor	HC	Handicap	SIM	Similar
CJ	Control Joint	HVAC	Heating Ventilation & Air Conditioning	SPEC	Specification
COORD	Coordinate	HORIZ	Horizontal	SQ	Square
CORR	Corridor	HM	Hollow Metal	STD	Standard
CSK	Countersunk	ID	Inside Diameter	STRUCT	Structural
COMM	Communication	INT	Interior	SUSP CLG	Suspended Ceiling
CIP	Cast in Place	ISO	Isometric	THK	Thick
CMU	Concrete Masonry Unit	JAN	Janitor	T&G	Tongue and Groove
DEMO	Demolition	KOP	Knockout Panel	TO	Top Of
DIAG	Diagonal	KD	Knock Down	TOB	Top of Beam
DIA	Diameter	LAB	Laboratory	TOS	Top of Slab
DIM	Dimension	LAV	Lavatory	TOW	Top of PARTITION
DN	Down	MAINT	Maintenance	XFMR	Transformer
DS	Downspout	MH	Manhole	TYP	Typical
DWG	Drawing	MFR	Manufacturer	UNO	Unless Noted
ELEC	Electric	MO	Masonry Opening	VTR	Vent Through Roof
EL	Elevation	MAX	Maximum	VERT	Vertical
ELEV	Elevator	MECH	Mechanical	VEST	Vestibule
EQ	Equal	MEZZ	Mezzanine	VCT	Vinyl Composition Tile
EQUIP	Equipment	MIN	Minimum	WC	Water Closet
EXIST	Existing	MISC	Miscellaneous	WH	Water Heater
EXP	Expansion	NOM	Nominal	WWF	Welded Wire Fabric
EJ	Expansion Joint	NIC	Not In Contract	W	With
EXT	Exterior	NO	Number		
EWC	Electric Water Cooler	NTS	Not to Scale		

GENERAL SYMBOLS

SEE PLUMBING, MECHANICAL AND ELECTRICAL FOR DISCIPLINE SYMBOLS



MATERIALS



DEFERRED SUBMITTALS

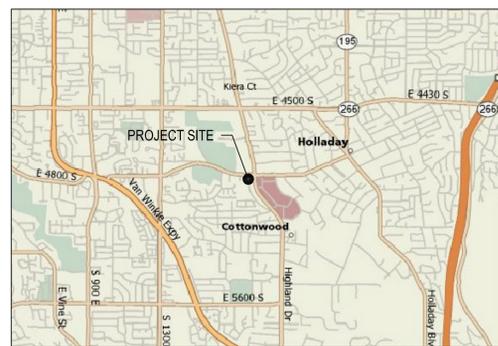
DEFERRED SUBMITTALS ARE DUE WITHIN 30 DAYS OF THE CONSTRUCTION START DATE.

DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR TO THE ARCHITECT WHO WILL FORWARD THEM TO THE BUILDING OFFICIAL FOR APPROVAL. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE ORDERED, FABRICATED OR INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

ITEM	DESCRIPTION
1.	AUTOMATIC FIRE SPRINKLER SYSTEM - DESIGN BUILD - SEE SPECIFICATION SECTION 211000.
2.	SEISMIC RESTRAINT SYSTEM FOR PLUMBING PIPING AND MECHANICAL DUCTWORK. SEE SPECIFICATION SECTION 230548.
3.	SEISMIC RESTRAINT SYSTEM FOR ROOFTOP EQUIPMENT - SEE SPECIFICATION SECTION 230548.
4.	SEISMIC RESTRAINT SYSTEM FOR ELECTRICAL RACEWAYS - SEE SPECIFICATION SECTION 260548.
5.	ICC EVALUATION REPORT AND APPROVED FABRICATOR STATUS FOR STEEL JOIST.
6.	ICC EVALUATION REPORT AND APPROVED FABRICATOR STATUS FOR METAL DECK.

CODE ANALYSIS AND LIFE SAFETY PLAN IS FOUND ON THE NEXT SHEET. SEE SHEET G0.02.

VICINITY MAP



APPROVALS

INDEX TO DRAWINGS - CONSTRUCTION DOCUMENTS

GENERAL	G0.01 COVER SHEET	ARCHITECTURAL	AS1.01 SITE PLAN	PLUMBING	P1.01 PLUMBING FLOOR PLAN
	G0.02 CODE ANALYSIS & LIFE SAFETY PLAN	AS5.01	SITE DETAILS	P1.02	PLUMBING ROOF PLAN
	G0.03 SPECIAL INSPECTIONS			P4.01	PLUMBING ENLARGED FLOOR PLAN
CIVIL	CD101 CIVIL DEMOLITION PLAN	A1.01	FIRST FLOOR PLAN	MECHANICAL	M0.01 INDEX AND LEGEND
	CS101 CIVIL SITE PLAN	A1.01S	SLAB EDGE PLAN	M1.01	MECHANICAL FLOOR PLAN
	CG101 CIVIL GRADING & DRAINAGE PLAN	A1.02	ROOF PLAN	M1.02	MECHANICAL ROOF PLAN
	CU101 CIVIL UTILITY PLAN	A2.01	EXTERIOR ELEVATIONS	M5.01	DETAILS
	CD501 CIVIL CONSTRUCTION DETAILS	A2.02	EXTERIOR ELEVATIONS	M6.01	SCHEDULES
	CD502 CIVIL CONSTRUCTION DETAILS	A3.01	BUILDING SECTION	ELECTRICAL	E0.01 SYMBOLS, SHEET INDEX & GENERAL NOTES
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	CW101 CIVIL STORM WATER POLLUTION PREVENTION PLAN	A3.03	WALL SECTIONS	E1.11	POWER PLAN
	CW102 CIVIL STORM WATER POLLUTION PREVENTION PLAN	A3.04	WALL SECTIONS	E1.12	ROOF POWER PLAN
	CW103 CIVIL STORM WATER POLLUTION PREVENTION PLAN	A3.05	WALL SECTIONS	E1.21	LIGHTING PLAN
		A3.06	WALL SECTIONS	E1.41	AUXILIARY PLAN
		A4.01	ENLARGED PLANS & INT. ELEVS.	E5.01	DETAILS
		A4.20	FLOOR PATTERN PLAN	E5.02	DETAILS
LANDSCAPE	LI1.01 IRRIGATION PLAN	A5.01	DETAILS	E5.03	PAD VAULT DETAILS
	LI5.01 IRRIGATION DETAILS	A5.02	DETAILS	E6.01	ONE LINE DIAGRAM & PANEL SCHEDULES
	LI5.02 IRRIGATION LEGEND & NOTES	A5.03	DETAILS	E6.02	EQUIPMENT SCHEDULE
	LP1.01 LANDSCAPE PLAN	A5.04	DETAILS	E6.03	FIXTURE SCHEDULE
	LP5.01 LANDSCAPE DETAILS	A5.05	DETAILS	E6.04	FIRE ALARM RISER
		A5.06	ROOF DETAILS	E6.05	SECURITY SYSTEM RISER DIAGRAMS
		A5.07	WALL TYPES & INTERIOR DETAILS	E7.01	TYPICAL DETAILS
STRUCTURAL	S0.01 STRUCTURAL GEN. NOTES & DETAILS	A6.01	DOOR & ROOM FINISH SCHEDULES		
	S0.02 STRUCTURAL DETAILS & SCHEDULES	A6.02	WINDOW SCHEDULE		
	S1.01 FOOTING & FOUNDATION PLAN	A6.03	TYPICAL MOUNTING HEIGHTS		
	S1.02 ROOF FRAMING PLAN				
	S5.01 STRUCTURAL DETAILS	A7.01	CEILING PLAN		
	S5.02 STRUCTURAL DETAILS				
	S5.03 STRUCTURAL DETAILS				
		IG1.01	SIGNAGE FLOOR PLAN		
		IG1.02	SIGNAGE DETAILS		

CONSULTANTS

CIVIL	STRUCTURAL	MECHANICAL	ELECTRICAL
GREAT BASIN ENGINEERING NORTH 5746 SOUTH 1475 EAST, SUITE 200 OGDEN, UT 84403 PHONE: 801.521.0222 FAX: 801.392.7544	ABS CONSULTING 310 SOUTH MAIN STREET, Ste. 300 SALT LAKE CITY, UT 84101 PHONE: (801) 333-7676 FAX: (801) 333-7677	COLVIN ENGINEERING ASSOCIATES 244 WEST 300 NORTH, Ste. 200 SALT LAKE CITY, UT 84103 PHONE: (801) 322-2400 FAX: (801) 322-2416	SPECTRUM ENGINEERS 324 S. STATE ST., Ste. 400 SALT LAKE CITY, UT 84111 PHONE: (801) 328-5151 FAX: (801) 328-5155

MHTN ARCHITECTS, INC. 420 EAST SOUTH TEMPLE, SUITE 100, SALT LAKE CITY, UT 84111
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CODE ANALYSIS

APPLICABLE CODES			
	Year	Year	
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	2006
International Plumbing Code	2006	ADA Accessibility Guidelines	2004 ICC/ANSI A117.1 2003
International Fire Code	2006		
International Energy Conservation Code	2006 IECC		

A. Occupancy and Group: M S-1
 Change in Use: Yes No Mixed Occupancy: Yes 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: N/A South: N/A East: N/A West: N/A

E. Mixed Occupancies: _____ Nonseparated Uses:

F. Sprinklers:
 Required: _____ Provided: Type of Sprinkler System: AUTOMATIC

G. Number of Stories: 1 Building Height: 27'-3"

H. Actual Area per Floor (square feet): (M) = 6,385 ; (S-1) = 6,510 ; TOTAL = 12,895

I. Tabular Area: 9,000

J. Area Modifications:

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

$$a) 41,850 = 9000 + \left[\frac{9000 \times 65}{100} \right] + \left[\frac{9000 \times 300}{100} \right] \quad I_r = 100 \left[\frac{465}{517} - 0.25 \right] \frac{30}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1 \quad \frac{(M) = 6,385}{41,850} + \frac{(S-1) = 6,510}{41,850} \leq 1$$

c) Total Allowable Area for:

- 1) One Story: 41,850
- 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	N/A	
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	N/A	
Fire Barriers	0		Fire Partitions	0	
			Smoke Partitions		

L. Design Occupant Load: 235 OCCUPANTS = 213 (M) + 22 (S-1)

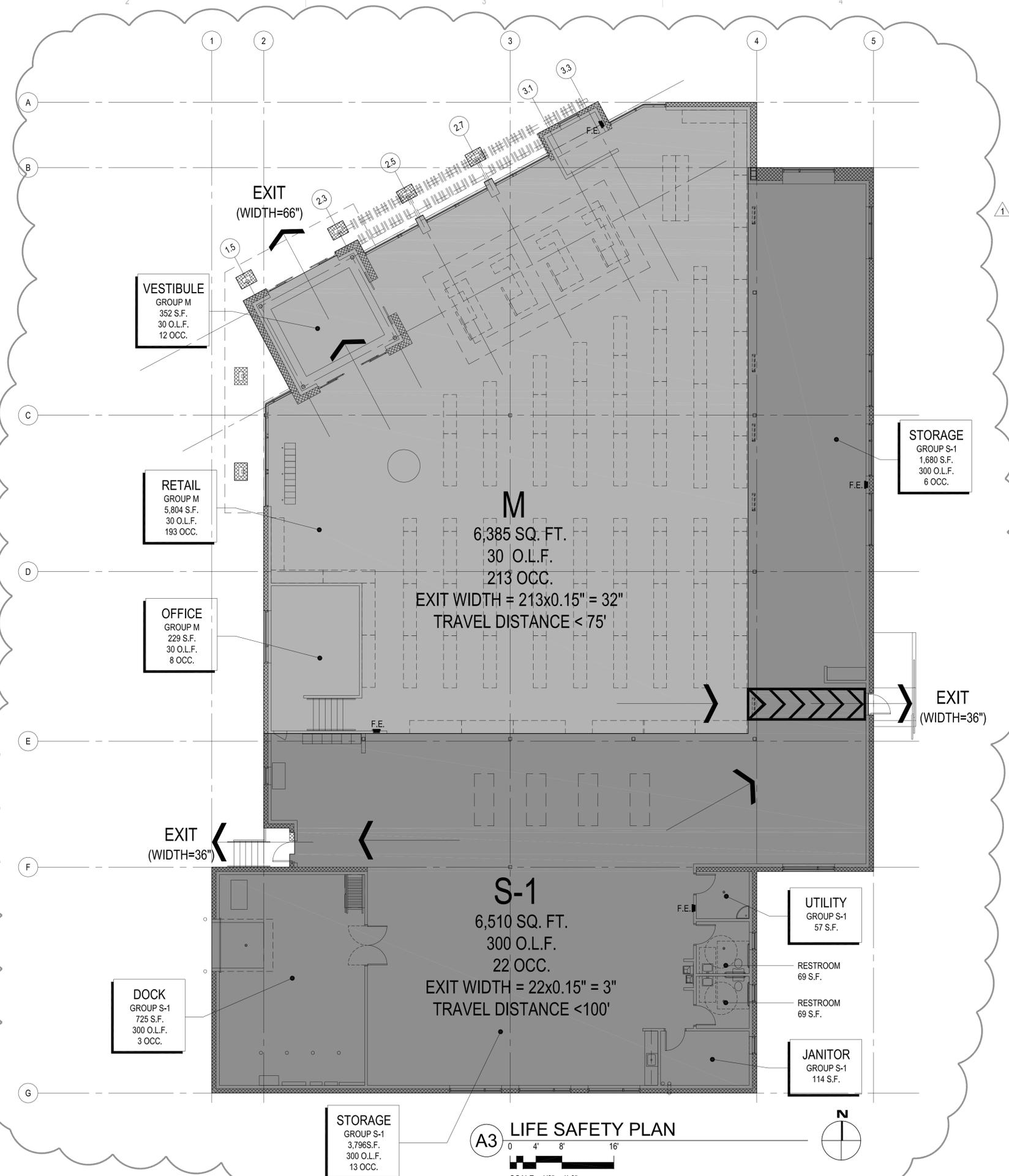
Exit Width Required: 36" Exit Width Provided: 102"

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: 1 Service Sinks: 1

FOOTNOTES:

- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- 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.



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 STORE**
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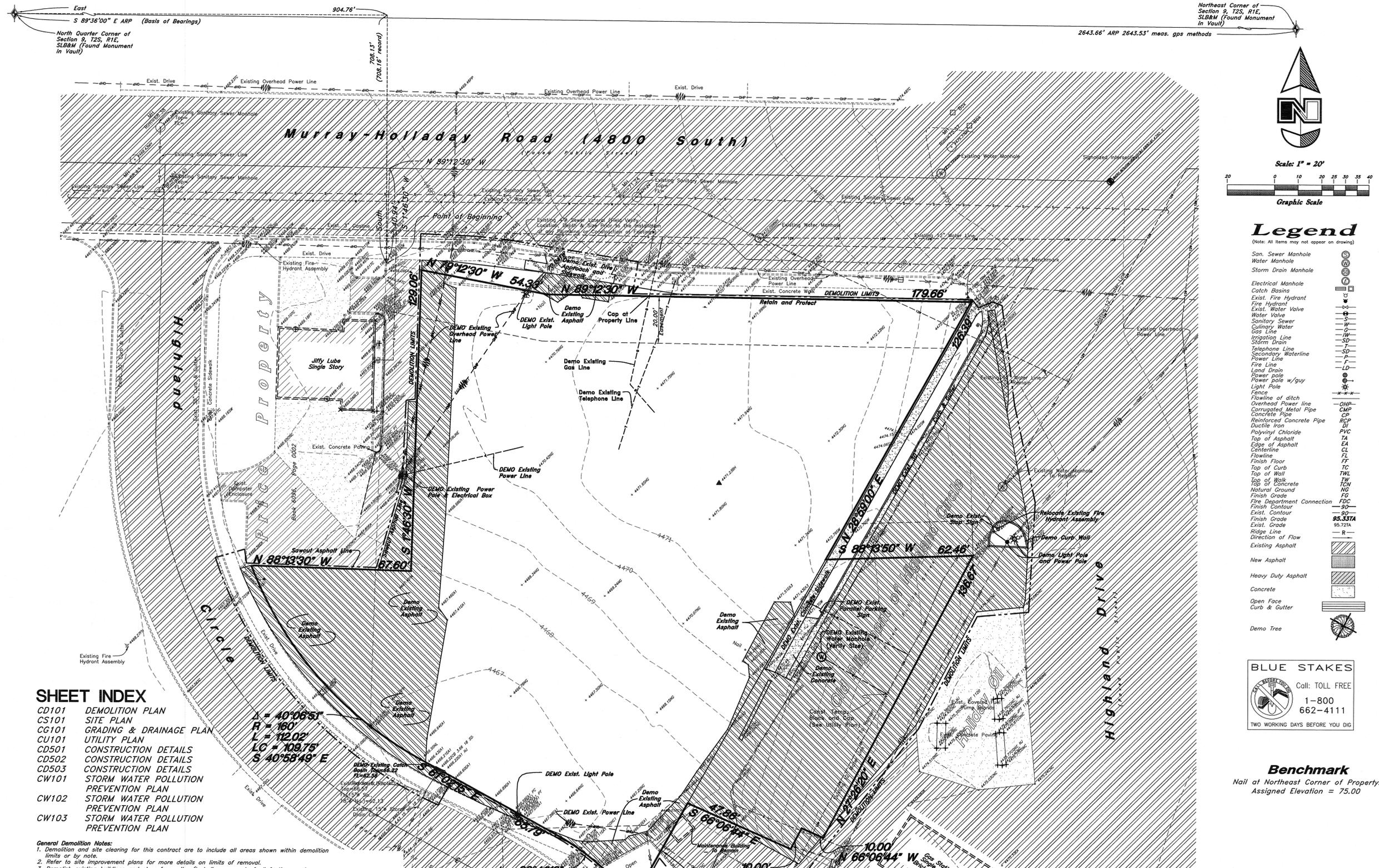
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SHEET NAME
**CODE ANALYSIS &
 LIFE SAFETY PLAN**

BID SET - 28 SEPT 09

G0.02

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SHEET INDEX

- CD101 DEMOLITION PLAN
- CS101 SITE PLAN
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- CU101 UTILITY PLAN
- CD501 CONSTRUCTION DETAILS
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- CW102 STORM WATER POLLUTION PREVENTION PLAN
- CW103 STORM WATER POLLUTION PREVENTION PLAN

General Demolition Notes:

1. Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
2. Refer to site improvement plans for more details on limits of removal.
3. Demolish existing buildings and clear from site. (Including removal of all footings and foundations.)
4. All curbs, gutters, walks, walls, fences, fltwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures to be cleared from site unless otherwise shown.
5. All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped according to city, county and utility company requirements, unless otherwise shown.
6. Basements and other excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner)
7. Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site except where noted otherwise.
8. DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
9. If ASBESTOS is found in existing structures, the Asbestos must be removed in a legal manner by a contractor licensed to handle asbestos materials. (Not a part of contract)
10. Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
11. The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact authorities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during construction.
12. Stockpiles shall be graded to maintain slopes not greater than 3 horizontal to 1 vertical. Provide erosion control as needed to prevent sediment transport to adjacent drainage ways.
13. Contractor shall be responsible for disposal of all waste material. Disposal shall be at an approved site for such material. Burning onsite is not permitted.
14. Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
15. Install traffic warning devices as needed in accordance with local standards.
16. Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.

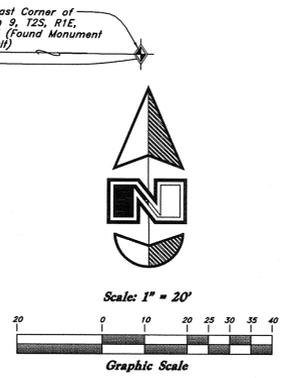
CAUTION NOTICE TO CONTRACTOR
 The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS
 The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

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 Ogdan (801) 394-4515
 Salt Lake City (801) 521-0222
 Fax (801) 392-7544



Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Flowline
 - Finish Floor
 - Flowline
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Grade
 - Fire Department Connection
 - Finish Contour
 - Exist. Contour
 - Finish Grade
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face
 - Curb & Gutter
 - Demo Tree

BLUE STAKES
 Call: TOLL FREE
 1-800-662-4111
 TWO WORKING DAYS BEFORE YOU DIG

Benchmark
 Nail at Northeast Corner of Property.
 Assigned Elevation = 75.00

DABC COTTONWOOD STORE
 1814 E. MURRAY HOLLADAY RD.
 HOLLADAY, UTAH 84117



MHTN PROJECT NO. 2008552.00

DRAWN BY: CM CHECKED BY: MB

NO.	DATE	DESCRIPTION
1	7/27/09	Construction Documents
2	8/31/09	BC-Plan Corrections

ISSUED:

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SHEET NAME
CIVIL DEMOLITION PLAN

Construction Documents

SHEET NUMBER

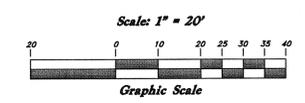
CD101

East
S 89°38'00" E ARP (Basis of Bearings)
North Quarter Corner of Section 9, T2S, R1E, SL&M (Found Monument in Vault)

Northeast Corner of Section 9, T2S, R1E, SL&M (Found Monument in Vault)
2643.66' ARP 2643.53' meas. gps methods

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REVISION DATE:

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SHEET NAME
CIVIL SITE PLAN

Construction Documents
SHEET NUMBER
CS101

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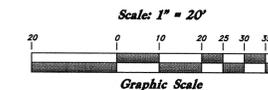
By: Rebecca C. Aug 31, 2009, 12:53 PM
10:00 AM 2009 12:53 PM 8/31/2009 12:53:04 PM, Rebecca C, 11



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CONSULTING ENGINEERS AND SURVEYORS

5746 South 1475 East
Suite 200
Ogden, Utah 84403
P.O. Box 150048
Ogden, Utah 84415
Ogden (801) 394-4515
Salt Lake City (801) 321-0222
Fax (801) 392-7544



Legend

(Note: All items may not appear on drawing)

- San Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Exist. Water Valve
- Water Valve
- Sanitary Sewer
- Culinary Water
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- Top of Curb
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- Top of Walk
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- Natural Ground
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- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Concrete
- Open Face
- Curb & Gutter
- Demo Tree

BLUE STAKES
Call: TOLL FREE
1-800-662-4111
TWO WORKING DAYS BEFORE YOU DIG

Benchmark
Nail at Northeast Corner of Property.
Assigned Elevation = 75.00

DABC COTTONWOOD STORE
1814 E. MURRAY HOLLADAY RD.
HOLLADAY, UTAH 84117



MHTN PROJECT NO. 2008552.00

DRAWN BY: CM CHECKED BY: MB

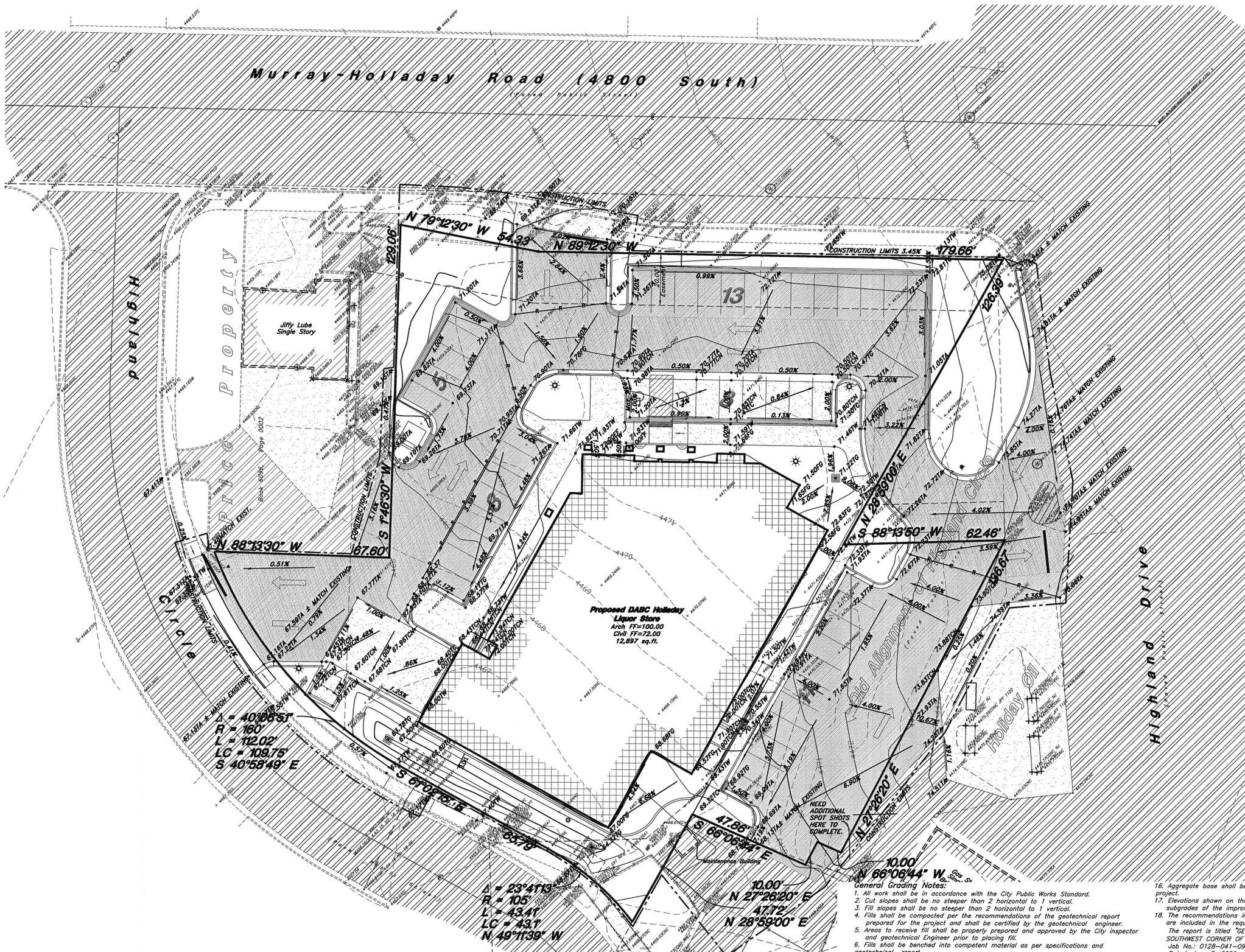
NO.	DATE	DESCRIPTION
1	7/27/09	Distribution Documents
2	8/11/09	IBC Plan Corrections

REVISION DATE:

NO.	DATE	DESCRIPTION

CIVIL GRADING & DRAINAGE PLAN
Construction Documents

CG101



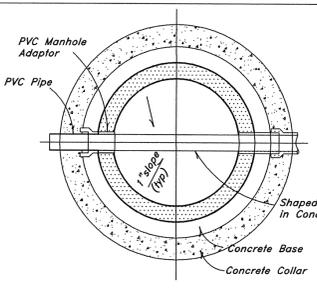
PRIVATE ENGINEER'S NOTICE TO CONTRACTORS
The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

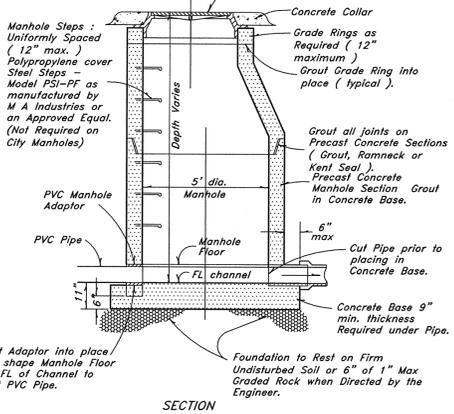
- General Grading Notes:**
- All work shall be in accordance with the City Public Works Standard.
 - Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
 - Areas to receive fill shall be properly prepared and approved by the City inspector and geotechnical Engineer prior to placing fill.
 - Fills shall be benched into competent material as per specifications and geotechnical report.
 - All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
 - A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
 - The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
 - Dust shall be controlled by watering.
 - The location and protection of all utilities is the responsibility of the permittee.
 - Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
 - All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
 - The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
 - The contractor shall provide shoring in accordance with OSHA requirements for trench walls.

- Aggregate base shall be compacted per the geotechnical report prepared for the project.
- Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
- The recommendations in the following Geotechnical Engineering Report by GSH are included in the requirements of grading and site preparation. The report is titled "GEOTECHNICAL STUDY PROPOSED ABC HOLLADAY STORE SOUTHWEST CORNER OF MURRAY-HOLLADAY ROAD" Job No.: 0126-041-09 Address: 4780 South 1830 East Dated: June 5, 2009
- As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
- Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

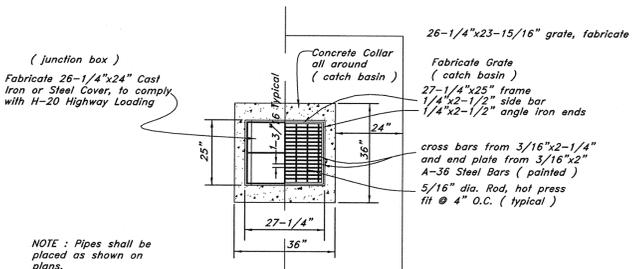
- Curb and Gutter Construction Notes:**
- Open face gutter shall be constructed where drainage is directed away from curb.
 - Open face gutter locations are indicated by shading and notes on site and grading plan.
 - It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
 - Refer to the typical details for a standard and open face curb and gutter for dimensions.
 - Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.



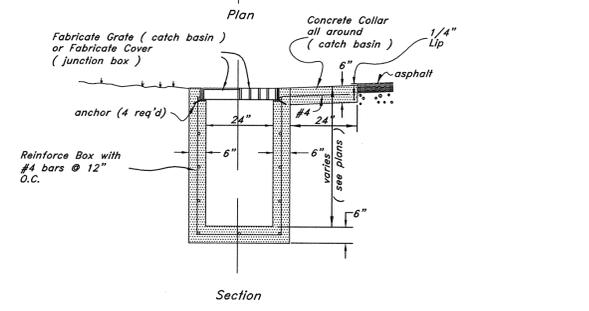
NOTE: Rubber Boot Joints with stainless steel connection bands are acceptable substitutes for standard joints shown.



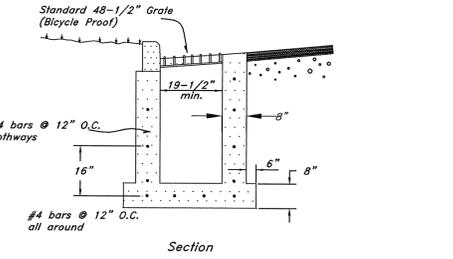
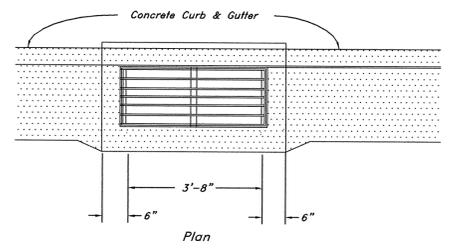
1 Typical Manhole Detail
Not to Scale



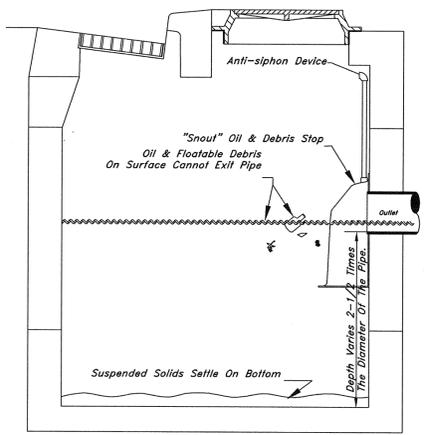
NOTE: Pipes shall be placed as shown on plans.



3 Catch Basin/Junction Box
Not to Scale

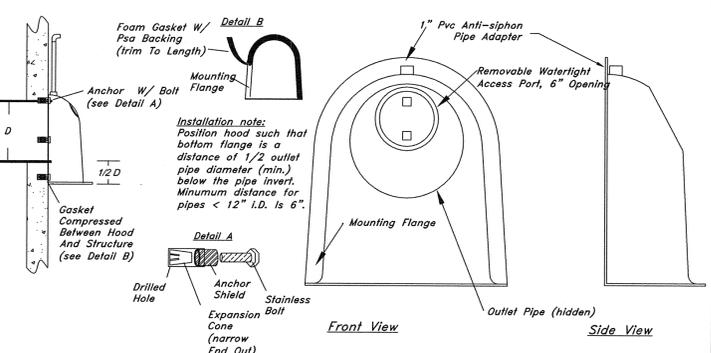


4 Typical Inlet Box
in curb & gutter
Not to Scale

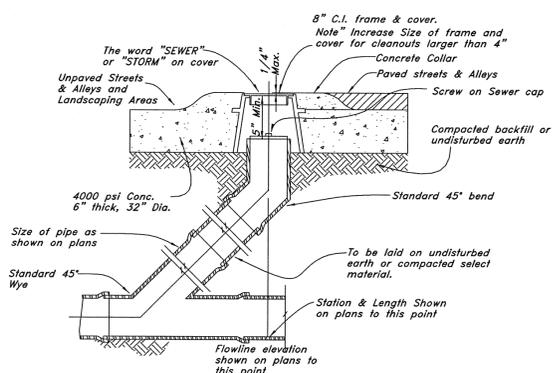


- Notes:**
- All hoods shall be equipped with a watertight access port, a mounting flange, and an anti-siphon vent as drawn.
 - The size and position of the hood shall be determined by outlet pipe size as per manufacturer's recommendation.
 - The anti-siphon vent shall extend above hood by minimum of 3" and a maximum of 24" according to structure configuration.
 - The surface of the structure where the hood is mounted shall be finished smooth and free of loose material.
 - The hood shall be securely attached to structure wall with 3/8" stainless steel bolts and oil-resistant gasket as supplied by manufacturer.
 - Installation instructions shall be furnished with manufacturer supplied installation kit. Installation kit shall include:
 - Installation instructions
 - Pvc anti-siphon vent pipe and adaptor
 - Oil-resistant crushed cell foam gasket with PSA backing
 - 3/8" stainless steel bolts
 - Anchor shields

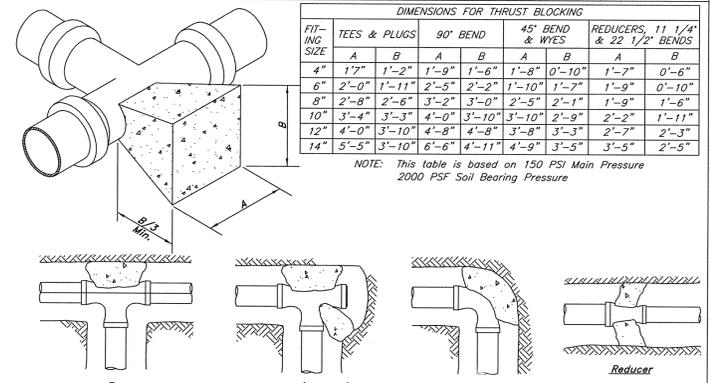
Configuration Detail



2 Snout Detail
NOT TO SCALE



5 Sewer, Storm, and Roof Drain Cleanout Detail
Not to Scale

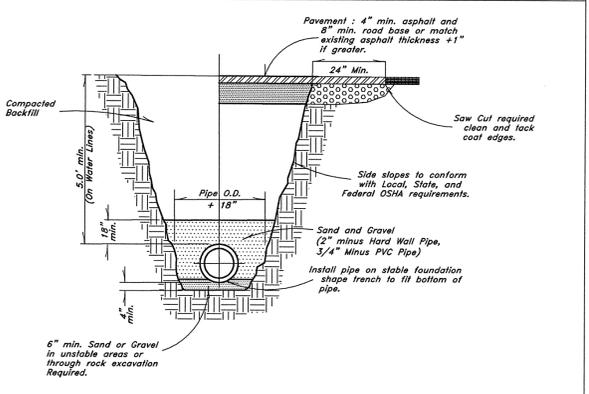


DIMENSIONS FOR THRUST BLOCKING

FITTING SIZE	TEES & PLUGS		90° BEND		45° BEND & WYES		REDUCERS, 1 1/4" & 2 1/2" BENDS	
	A	B	A	B	A	B	A	B
4"	1'-7"	1'-2"	1'-9"	1'-6"	1'-8"	0'-10"	1'-7"	0'-6"
6"	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	0'-10"
8"	2'-8"	2'-8"	3'-2"	3'-0"	2'-5"	2'-1"	1'-9"	1'-6"
10"	3'-4"	3'-3"	4'-0"	3'-10"	3'-10"	2'-9"	2'-2"	1'-11"
12"	4'-0"	3'-10"	4'-8"	4'-8"	3'-8"	3'-3"	2'-7"	2'-3"
14"	5'-5"	3'-10"	6'-6"	4'-11"	4'-9"	3'-5"	3'-5"	2'-5"

NOTE: This table is based on 150 PSI Main Pressure
2000 PSF Soil Bearing Pressure

6 Thrust Blocking Details
Not to Scale



7 Typical Trench Detail
Not to Scale

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MHTN PROJECT NO. 2008552.00
DRAWN BY: CM CHECKED BY: MB

ISSUED:

NO.	DATE	DESCRIPTION
1	7/27/09	Construction Documents
2	8/31/09	BC Plan Corrections

REVISION DATE:

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SHEET NAME:
CIVIL CONSTRUCTION DETAILS

Construction Documents
SHEET NUMBER

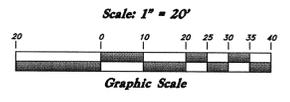
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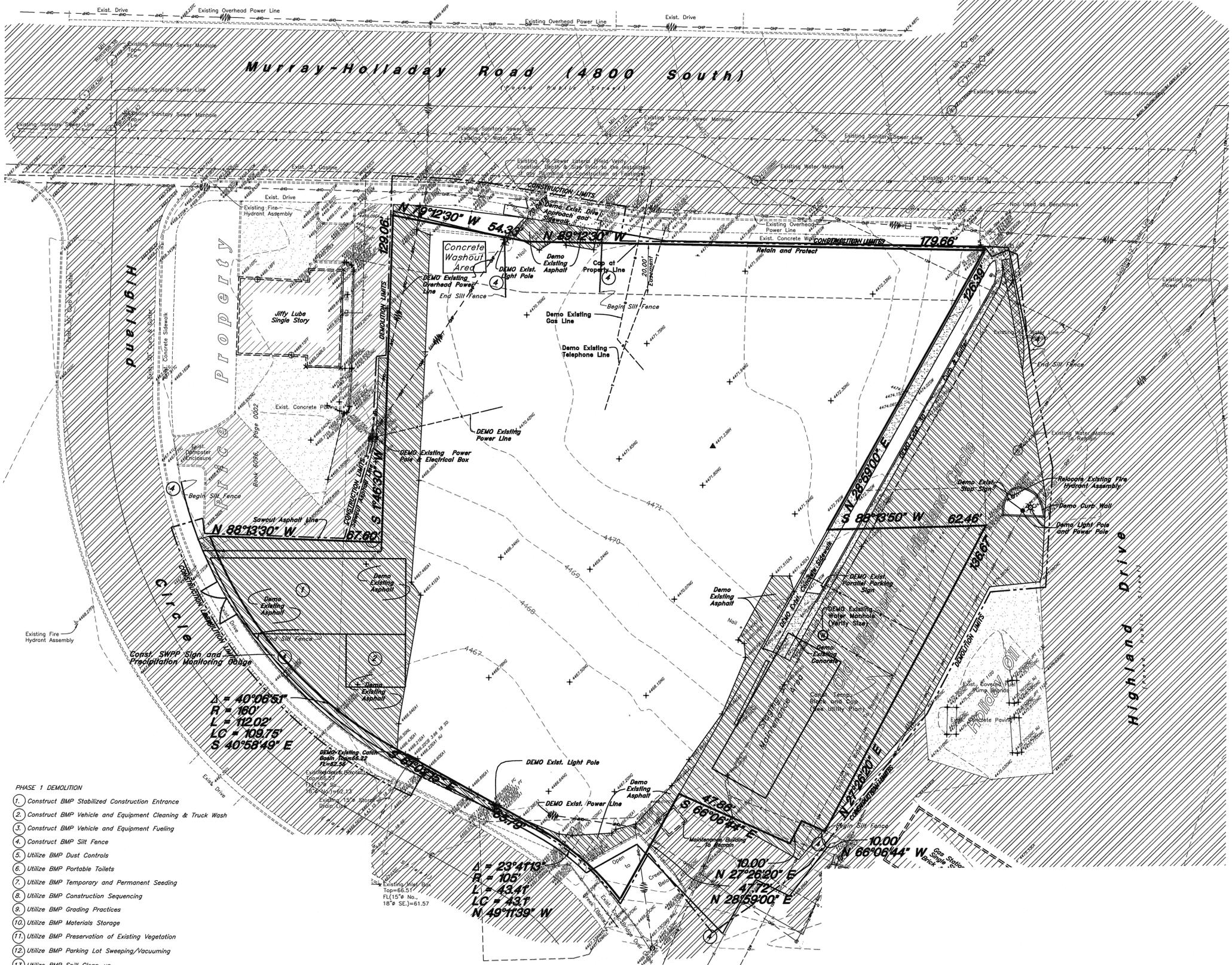
MHTN PROJECT NO. 2008552.00
DRAWN BY: CM CHECKED BY: MEB

ISSUED:	NO.	DATE	DESCRIPTION
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REVISION DATE:

NO.	DATE	DESCRIPTION

SHEET NAME
**CIVIL
STORM WATER POLLUTION
PREVENTION PLAN**
Construction Documents
SHEET NUMBER
CW101



- PHASE 1 DEMOLITION**
- 1) Construct BMP Stabilized Construction Entrance
 - 2) Construct BMP Vehicle and Equipment Cleaning & Truck Wash
 - 3) Construct BMP Vehicle and Equipment Fueling
 - 4) Construct BMP Silt Fence
 - 5) Utilize BMP Dust Controls
 - 6) Utilize BMP Portable Toilets
 - 7) Utilize BMP Temporary and Permanent Seeding
 - 8) Utilize BMP Construction Sequencing
 - 9) Utilize BMP Grading Practices
 - 10) Utilize BMP Materials Storage
 - 11) Utilize BMP Preservation of Existing Vegetation
 - 12) Utilize BMP Parking Lot Sweeping/Vacuuming
 - 13) Utilize BMP Spill Clean-up

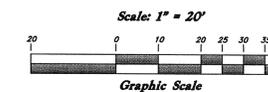
Note: Contractor to show location of Portable Toilets
Note: Contractor to adjust silt fence as phasing



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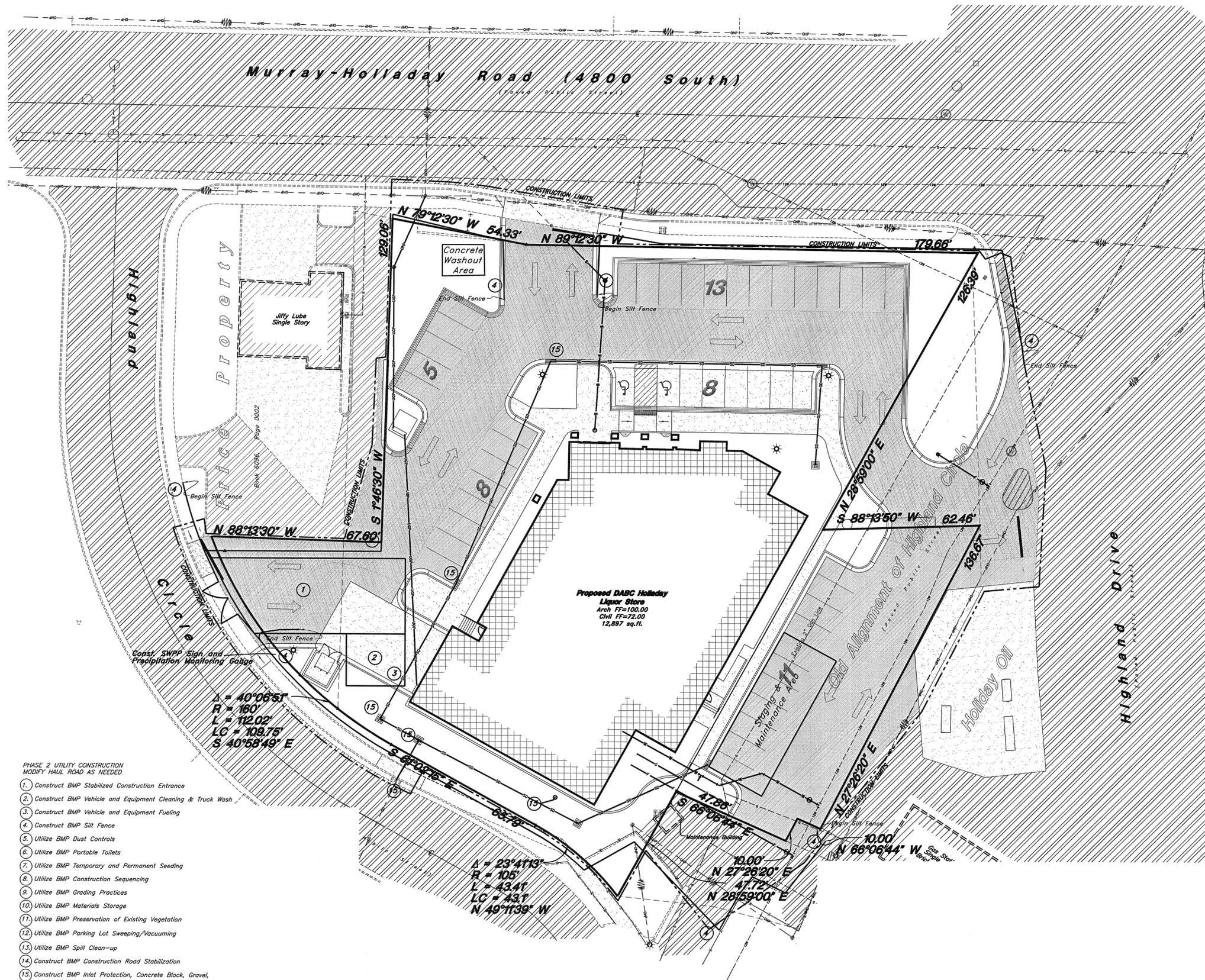
NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

SHEET NAME
**CIVIL
STORM WATER POLLUTION
PREVENTION PLAN**

Construction Documents
SHEET NUMBER

CW102

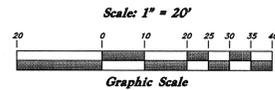




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DRAWN BY: CM CHECKED BY: MEB

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REVISION DATE:

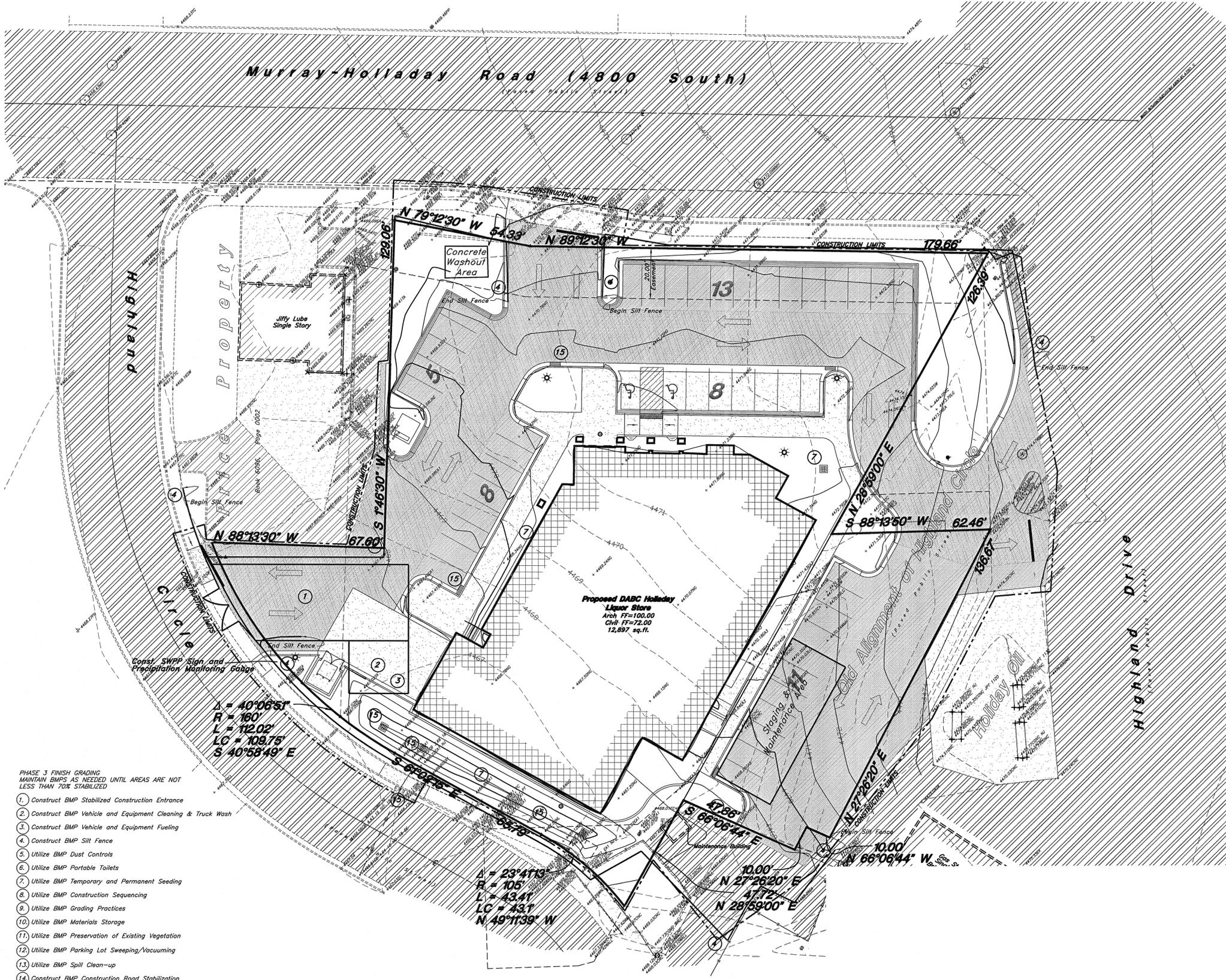
NO.	DATE	DESCRIPTION

SHEET NAME
 CIVIL
 STORM WATER POLLUTION
 PREVENTION PLAN

Construction Documents

SHEET NUMBER

CW103



PHASE 3 FINISH GRADING
 MAINTAIN BMPs AS NEEDED UNTIL AREAS ARE NOT
 LESS THAN 70% STABILIZED

1. Construct BMP Stabilized Construction Entrance
2. Construct BMP Vehicle and Equipment Cleaning & Truck Wash
3. Construct BMP Vehicle and Equipment Fueling
4. Construct BMP Silt Fence
5. Utilize BMP Dust Controls
6. Utilize BMP Portable Toilets
7. Utilize BMP Temporary and Permanent Seeding
8. Utilize BMP Construction Sequencing
9. Utilize BMP Grading Practices
10. Utilize BMP Materials Storage
11. Utilize BMP Preservation of Existing Vegetation
12. Utilize BMP Parking Lot Sweeping/Vacuuming
13. Utilize BMP Spill Clean-up
14. Construct BMP Construction Road Stabilization
15. Construct BMP Inlet Protection, Concrete Block, Gravel, Excavated, Sand Bag Barrier, or Silt Fence
16. Construct BMP Concrete Waste Management
17. Construct BMP Sediment Trap

Note: Contractor to show location of Portable Toilets
 Note: Contractor to adjust silt fence as phasing

B:\RebeccaC - 8/31/09 - 12:55:09 PM - 012866 -
 W:\09N202\MHTN Murray-Holladay Liquor\dwg\09N20256-BC.dwg, 8/31/2009 12:55:09 PM, RebeccaC, 1.1

GENERAL NOTES

GENERAL:

- ALL DETAILS, SECTIONS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES. GENERAL NOTES SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
 - REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.
 - SEE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, ELEVATIONS, SLOPES, STAIRS, CURBS, DRAINS, RECESSES, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES, CHAMFERS, KERFS, ETC.
 - ALL CONSTRUCTION AND INSPECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC). THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS AND SHALL NOT PROCEED WITH THE WORK INVOLVED UNTIL THE INSPECTIONS HAVE BEEN DONE.
 - ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE IBC.
 - ALL ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE, UNO.
 - THE CONTRACTOR MUST SUBMIT A WRITTEN REQUEST FOR, AND OBTAIN THE ARCHITECT'S AND/OR THE STRUCTURAL ENGINEER'S WRITTEN PRIOR APPROVAL FOR ALL CHANGES, MODIFICATIONS, AND/OR SUBSTITUTIONS.
 - THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.
 - THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL PORTIONS OF THE BUILDING UNTIL THE ENTIRE STRUCTURE OF THE BUILDING IS COMPLETE.
 - THE CONTRACTOR SHALL PROVIDE DRAINAGE AT THE BASE OF RETAINING WALLS.
 - DURING AND AFTER CONSTRUCTION, THE CONTRACTOR AND/OR THE OWNER SHALL KEEP THE LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
 - OBSERVATION VISITS TO THE SITE BY REPRESENTATIVES OF ABS CONSULTING, INC. SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
 - IF EXISTING CONDITIONS AT THE SITE ARE NOT AS SHOWN ON THE DRAWINGS, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. CHANGES MAY OCCUR DUE TO SUCH VARIATIONS IN EXISTING CONDITIONS.
 - ALL EQUIPMENT ANCHOR BOLT SIZES AND LOCATIONS SHALL BE VERIFIED IN THE FIELD WITH THE EQUIPMENT MANUFACTURER'S CERTIFIED DRAWINGS, LATEST REVISION, BEFORE PLACING CONCRETE.
 - THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF LOADS FOR MECHANICAL UNITS AND/OR OTHER EQUIPMENT OR DEVICES PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY SUPPORTING STRUCTURE. SUCH LOADS SHALL BE REPORTED TO THE ARCHITECT AND/OR STRUCTURAL ENGINEER FOR REVIEW. ADDITIONAL FRAMING MAY BE REQUIRED FOR THE PROPER SUPPORT OF SUCH UNITS OR EQUIPMENT. COORDINATE WITH THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
 - THE CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR OPENINGS REQUIRED WITH MECHANICAL AND/OR OTHER DRAWINGS TO ACCOMMODATE ALL MECHANICAL AND/OR OTHER UNITS, OPENINGS, ETC. AN ANGLE FRAME AS DETAIL 1718 SHALL BE PROVIDED AROUND ALL OPENINGS WHICH EXCEED 8" IN ANY DIRECTION. SEE DETAIL C3/S0.02.
 - NO PENETRATIONS SHALL BE ALLOWED THROUGH MASONRY BEAMS, COLUMNS, PIERS, OR JAMBS, WITHOUT THE ARCHITECT'S AND/OR STRUCTURAL ENGINEER'S WRITTEN APPROVAL. MECHANICAL AND/OR OTHER PENETRATIONS SHALL BE RE-ROUTED AS REQUIRED AT THESE LOCATIONS.
 - ALL PENETRATIONS THROUGH ANY CONCRETE OR MASONRY WALLS SHALL BE BUILT INTO THE WALL AS THE WALL IS BEING CONSTRUCTED AND SHALL BE REVIEWED BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
 - NO PENETRATIONS SHALL BE ALLOWED THROUGH ANY CONCRETE FOOTINGS. WHEN CONFLICTS ARISE BETWEEN UNDERGROUND PLUMBING, UTILITIES, ETC., THE FOOTING SHALL BE STEPPED DOWN BELOW THE CONFLICT AND A WALL, PIER, OR COLUMN, ETC., SHALL BE EXTENDED TO THE FOOTING AS REQUIRED. COORDINATE WITH THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
 - THE CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN THE VARIOUS TRADES. ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
 - NO ITEMS REQUIRING ENGINEERED SUBMITTALS SHALL BE INSTALLED UNTIL REVIEWED BY THE ENGINEER OF RECORD AND APPROVED BY THE STATE OF UTAH BUILDING OFFICIAL.
- AB DENOTES "ANCHOR BOLT".
 DBA DENOTES "DEFORMED BAR ANCHOR".
 DBE DENOTES "DECK BEARING ELEVATION".
 FSE DENOTES "FINISH SLAB ELEVATION".
 NTS DENOTES "NOT TO SCALE".
 OC DENOTES "ON CENTER".
 TF DENOTES "TOP OF FOOTING ELEVATION".
 TP DENOTES "TOP OF PIER ELEVATION".
 TW DENOTES "TOP OF WALL ELEVATION".
 UNO DENOTES "UNLESS NOTED OTHERWISE".
 WAS DENOTES "WELDED ANCHOR STUD".

SITE PREPARATION NOTES:

- SITE PREPARATION NOTES FOR THIS PROJECT ARE BASED ON RECOMMENDATIONS CONTAINED IN A SOILS REPORT BY GSH GEOTECHNICAL CONSULTANTS, INC., DATED JUNE 5, 2008, ALONG WITH ANY ADDENDA THERETO, WHICH HAS BEEN PREPARED FOR THIS PROJECT. A REFERENCE COPY IS AVAILABLE UPON REQUEST FROM THE ARCHITECT. FOOTINGS AND FOUNDATIONS AS SHOWN ON DRAWINGS MAY VARY IF THE SUBSURFACE SOIL CONDITIONS VARY FROM THOSE SHOWN IN THE SOILS REPORT.
- ALL VEGETATION, DELETERIOUS MATERIALS, NON-ENGINEERED COMPACTED FILL, EXISTING FOUNDATION/DEBRIS SHALL BE REMOVED FROM ALL AREAS WHICH WILL ULTIMATELY BE STRUCTURALLY LOADED BY THE PROPOSED BUILDING AND RIGID PAVEMENTS. REMOVAL SHALL EXTEND A MINIMUM OF 3 FEET PAST THE LOADED AREAS.
- THE EXISTING NATURAL SUBGRADE SHALL BE PROOF ROLLED. ALL SOFT SPOTS AND DISTURBED SOILS SHALL BE EXCAVATED TO A MAXIMUM OF TWO FEET AND REPLACED WITH ENGINEERED COMPACTED FILL.
- SLABS ON GRADE SHALL BE UNDERLAIN BY A MINIMUM OF 4 INCHES OF FREE-DRAINING GRANULAR MATERIAL. GRANULAR MATERIAL SHALL BE PLACED UPON PROPERLY PREPARED ENGINEERED COMPACTED FILL EXTENDING TO SUITABLE FIRM NATIVE SOILS.
- ALL ENGINEERED COMPACTED FILL SHALL EXTEND TO FIRM UNDISTURBED NATURAL SOILS. COMPACTED FILL SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY ACCORDING TO ASTM D-1577.
- ENGINEERED COMPACTED FILL MATERIAL SHALL BE AS FLOWS: NON-EXPANSIVE, CLEAN, WELL GRADED, SANDY MATERIALS WITH A MAXIMUM OF 35% FINES (PASSING #200 SIEVE) AND A MAXIMUM PARTICLE SIZE OF 4". EXISTING FILLS MAY BE RE-UTILIZED AS SITE GRADING STRUCTURAL FILL PROVIDED THEY MEET THE REQUIREMENTS.

SPECIAL INSPECTIONS FOR WIND AND SEISMIC DESIGN:

FOR BUILDING'S WIND AND SEISMIC SPECIAL, SPECIAL INSPECTIONS SHALL BE PERFORMED TO ASSURE IMPLEMENTATION OF DESIGN AND CODE REQUIREMENTS DURING CONSTRUCTION. SEE SHEET S-001 FOR REQUIRED SPECIAL INSPECTIONS. SPECIAL INSPECTION SHALL BE CONDUCTED AS PER IBC 2006, CHAPTER 17. SEE SPECIFICATION BOOK FOR ADDITIONAL INFORMATION, TEST TYPES, FREQUENCY, NUMBER, ETC. SPECIAL INSPECTION LISTED BELOW SHALL BE PROVIDED BY THE OWNER. PERIODIC SITE STRUCTURAL OBSERVATIONS WILL BE CONDUCTED BY ABS CONSULTING, INC. DURING CONSTRUCTION. AFTER EACH SPECIAL INSPECTION AND STRUCTURAL OBSERVATION, REPORT SHALL BE GENERATED AND DISTRIBUTED.

THE OWNER SHALL HIRE QUALIFIED SPECIAL INSPECTORS TO INSPECT THE FOLLOWING WORK. THE WORK AND REPORTS OF THE SPECIAL INSPECTOR OR INSPECTORS SHALL MEET THE REQUIREMENTS OF INTERNATIONAL BUILDING CODE CHAPTER 17.

- STEEL (SECTION 1704.3, TABLE 1704.3)
 - MATERIALS - PERIODIC, SEE SPECIFICATION
 - WELDING - PERIODIC VISUAL (UT - CONTINUOUS)
 - STEEL FRAMING DETAILS - VISUAL PERIODIC
 - HIGH STRENGTH BOLTS - PERIODIC, SEE SPECIFICATION
- CONCRETE (SECTION 1704.4, TABLE 1704.4)
 - REINFORCING STEEL - VISUAL PRIOR TO CONCRETE PLACEMENT
 - CONCRETE PLACEMENT - CONTINUOUS
 - BOLTS IN CONCRETE - VISUAL PRIOR TO CONCRETE PLACEMENT
 - SAMPLING & STRENGTH TESTS - SEE SPECIFICATION
- MASONRY (SECTION 1704.5, TABLES 1704.5.1 AND 1704.5.3)
 - REBAR - VISUAL PRIOR TO GROUTING
 - GROUTING - CONTINUOUS
- SOILS, SEE GEOTECHNICAL ENGINEER FOR ADDITIONAL INFORMATION

CONCRETE:

- USE PORTLAND CEMENT, TYPE I OR IA.
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH EQUAL TO AT LEAST 3000 PSI WITHIN 28 DAYS AFTER PLACING EXCEPT ALL FLATWORK SHALL BE AT LEAST 4000 PSI.
- ALL METAL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI, UNO, EXCEPT REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
- ALL REINFORCING BARS SHALL BE DETAILED, BOLSTERED, AND SUPPORTED IN ACCORDANCE WITH ACI 315-05.
- ALL REINFORCING BARS SHALL BE SECURELY ANCHORED TO THE FORMS AND SPACED FROM THEM AS FOLLOWS:
 - FOR CONCRETE NOT EXPOSED DIRECTLY TO THE GROUND OR WEATHER, 1/2" IN WALLS; 1 1/2" IN PIERS, COLUMNS, GIRDDERS, AND BEAMS.
 - FOR CONCRETE EXPOSED TO THE GROUND OR WEATHER, 2" IN WALLS, PIERS, AND COLUMNS; 3" ABOVE BOTTOM OF FOOTINGS.
- ALL REINFORCING SHALL BE CONTINUOUS IN WALLS, ETC. ALL SPLICES IN CONTINUOUS REINFORCING BARS SHALL LAP 40 BAR DIAMETERS. ALL SUCH SPLICES SHALL BE MADE IN A REGION OF COMPRESSION UNLESS NOTED OR SHOWN OTHERWISE. TENSION SPLICES SHALL BE A CLASS B SPLICE AS DEFINED IN THE LATEST EDITION OF THE IBC.
- MAKE ALL CONCRETE SLABS ON GRADE AT LEAST 4" THICK, UNO.
- PROVIDE 2x4 BEVELED KEY IN ALL WALL FOOTINGS.
- LARGE AREAS OF SLAB ON GRADE SHALL BE PLACED IN STRIPS SUBDIVIDED BY CONTRACTION OR CONSTRUCTION JOINTS INTO ROUGHLY SQUARES WHOSE SIDES SHALL NOT EXCEED 10' IN EITHER DIRECTION. SEE TYPICAL SLAB JOINT DETAIL C2/S0.02.
- REINFORCE ALL CONCRETE WALLS AS FOLLOWS, UNO:

HORIZONTAL REINF	VERTICAL REINF
6" WALL #4 @ 13" OC	#4 @ 18" OC
8" WALL #5 @ 15" OC	#4 @ 18" OC
10" WALL #5 @ 12" OC	#4 @ 13" OC
12" WALL #4 @ 13" OC	#4 @ 18" OC
24" WALL EACH FACE	EACH FACE
3-#4 @ 11" OC	3-#4 @ 18" OC

PLACE STEEL IN CENTER OF WALL, UNO (EXCEPT WALLS THICKER THAN 10") AND DOWEL TO FOOTING OR TO STRUCTURE ABOVE AND BELOW WITH SAME DOWEL SIZE AND SPACING AS VERTICAL REINFORCEMENT. ALL DOWELS SHALL HAVE AT LEAST 30 BAR DIAMETERS EMBEDMENT. PROVIDE CORNER BARS AT ALL INTERSECTING CORNERS. USE SAME SIZE BAR AND SPACING AS HORIZONTAL WALL REINFORCEMENT.
- ADD 2-#5 BARS AROUND ALL OPENINGS, UNO, AND EXTEND 2'-0". BEYOND THE CORNER OF THE OPENINGS.

MASONRY:

- ALL CONCRETE BLOCK MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE N-1, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH EQUAL TO 1900 PSI FOR NET AREA.
- ALL GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH EQUAL TO 2000 PSI AT 28 DAYS.
- ALL MORTAR SHALL CONFORM TO ASTM C270, TYPE "S" (SECTION 2103 AND TABLE 21-0 INTERNATIONAL BUILDING CODE). USE PORTLAND CEMENT, TYPE III.
- ALL METAL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60, WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI, UNO, EXCEPT REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM A706 GRADE 60.
- PRISM TESTS SHALL BE PROVIDED BEFORE STARTING MASONRY WORK ON THE BUILDING AND AT INTERVALS AS REQUIRED IN THE SPECIFICATIONS, BUT NOT LESS THAN EVERY 5,000 SQ. FT. OF WALL AREA. MINIMUM COMPRESSIVE STRENGTH OF PRISM TESTS SHALL BE 1500 PSI AT 28 DAYS.
- ALL STRUCTURAL MASONRY SHALL REQUIRE FULL TIME, CONTINUOUS SPECIAL INSPECTION IN ACCORDANCE WITH IBC, SECTION 17. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER.
- ALL MASONRY WALLS SHALL BE REINFORCED AS FOLLOWS, U.N.O.:

12" WALLS	#6 @ 32" OC IN VERTICAL GROUTED CELLS & 2-#4 @ 48" OC IN BLOCK UNIT HORIZONTALLY GROUTED.
8" WALLS	#5 @ 32" OC IN VERTICAL GROUTED CELLS & 2-#3 @ 48" OC IN BLOCK UNIT HORIZONTALLY GROUTED.

* DO NOT GROUT SOLID UNLESS SPECIFIED IN MASONRY WALL SCHEDULE.

LAP ALL MASONRY REINFORCING 48 BAR DIAMETERS. IN ADDITION, LADDER-TYPE REINFORCING CONSISTING OF 2-#9 WIRES (3-#9 WIRES AT BRICK VENEER) SHALL BE USED AT 16" OC HORIZONTALLY IN ALL MASONRY WALLS. ALL VERTICAL REINFORCING SHALL BE DOWELED (SAME SIZE AND SPACING AS VERTICAL BARS) TO FOUNDATION WALL, FOOTING BELOW OR STRUCTURE ABOVE. WHERE HORIZONTAL REINFORCING BARS BUTT TO STEEL, WIDE FLANGE OR PIPE COLUMNS, DEFORMED BAR ANCHORS (SAME SIZE AND SPACING AS HORIZONTAL BARS), 48 BAR DIAMETERS LONG, SHALL BE FIELD WELDED TO COLUMN. HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS AT ALL INTERSECTING WALLS AND AT CORNERS.
- WHERE HORIZONTAL REINFORCING BARS JOIN CONCRETE COLUMNS OR PILASTERS, REINFORCING SHALL BE CONTINUOUS. A KEY SHALL ALSO BE PROVIDED BETWEEN THE WALL AND COLUMN.
- PROVIDE 1-#4 BAR, IN GROUTED SPACE, ON ALL SIDES AND ADJACENT TO EVERY OPENING WHICH EXCEEDS 2'-0" IN EITHER DIRECTION. BARS SHALL EXTEND 2'-0" BEYOND THE CORNERS OF THE OPENING. ALL CORNERS AND ENDS SHALL HAVE VERTICAL REINFORCING IN GROUTED CELL. HORIZONTAL BOND BEAMS WITH HORIZONTAL REINFORCING SHALL OCCUR AT TOP AND BOTTOM COURSE OF ALL MASONRY WALLS, UNO.
- GROUT SOLID AROUND ALL STEEL JOIST ENDS AND/OR STEEL BEAMS AT BEARING AND GROUT SOLID AROUND ALL ANCHOR BOLTS, UNO.
- ALL WALLS SHALL BE BUILT AS AN INTEGRAL UNIT AT CORNERS AND INTERSECTIONS. REINFORCING SHALL BE CONTINUOUS AND BACK TO BACK END SHELLS SHALL BE REMOVED.
- ALL MASONRY BEAMS SHALL BE BUILT AS AN INTEGRAL PART OF THE SUPPORT. NO TOOTHING OR DOWELLING ONLY WILL BE ALLOWED. CONCRETE MASONRY UNITS WITH ONE END OPEN ENDED SHALL BE USED IN ALL MASONRY BEAMS. BACK TO BACK END SHELLS ARE NOT ALLOWED.
- GROUT SHALL BE POURED IN ACCORDANCE WITH LOW LIFT PROCEDURES AS PER THE INTERNATIONAL BUILDING CODE. GROUT SHALL BE CONSOLIDATED BY MEANS OF A MECHANICAL VIBRATOR.
- CONTROL JOINTS IN MASONRY VENEER WALLS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 25' OC. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS WITH ARCHITECTURAL REQUIREMENTS.
- CONTROL JOINTS IN REINFORCED MASONRY WALLS SHALL BE PROVIDED AS PER THE STRUCTURAL DRAWINGS, SEE DETAIL A2/S0.02.
- BRICK VENEER SHALL BE TIED TO THE SUPPORTING WALLS WITH RIGID BRICK TIES @ 16" OC MAXIMUM SPACING HORIZONTAL AND VERTICAL. PROVIDE #9 WIRE CONTINUOUS IN MORTAR JOINT FASTENED TO BRICK TIES.

MASONRY BEAM NOTES:

- GROUT MASONRY BEAMS SOLID FOR FULL DEPTH INDICATED IN MASONRY BEAM SCHEDULE.
- ALL REINFORCING IN MASONRY BEAM SCHEDULE IS IN ADDITION TO TYPICAL WALL REINFORCING.
- HORIZONTAL REINFORCING BARS IN THE TOP OF THE MASONRY BEAM SHALL EXTEND 60 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING OR SHALL BE HOOKED IF REQUIRED.
- HORIZONTAL REINFORCING BARS IN THE BOTTOM OF THE MASONRY BEAM SHALL EXTEND 2'-0" BEYOND THE EDGE OF THE OPENING OR SHALL BE HOOKED IF REQUIRED.
- VERTICAL REINFORCING BARS SHALL HOOK AROUND THE BOTTOM HORIZONTAL REINFORCING BARS. THEY SHALL ALSO HOOK AROUND THE TOP HORIZONTAL REINFORCING BARS OR EXTEND INTO WALL ABOVE A MINIMUM OF 40 BAR DIAMETERS.
- DO NOT SPLICE HORIZONTAL TOP AND/OR BOTTOM REINFORCING BARS - TYPICAL, UNO.
- GROUT WALL SOLID FOR FULL HEIGHT AT SIDES OF OPENINGS: ONE CELL FOR EACH 4'-0" OF SPAN OR PORTION THEREOF. REINFORCE WITH 2-#5 VERTICAL BARS IN EACH GROUTED CELL, ONE BAR EACH FACE OF WALL, TYPICAL, UNO. (EXAMPLE: FOR 6'-0" SPAN, GROUT TWO CELLS AT EACH SIDE OF OPENING).
- MASONRY BEAMS SHALL BE BUILT AS AN INTEGRAL PART OF THE SUPPORT. NO TOOTHING OR DOWELLING ONLY WILL BE PERMITTED AT SUPPORTS. WHEN STACKED BOND CONDITIONS OCCUR (i.e. A CONTINUOUS VERTICAL MORTAR JOINT), REMOVE ALL BACK TO BACK FACE SHELLS FOR THE FULL DEPTH OF THE MASONRY BEAM TO ALLOW THE GROUT POUR TO BE CONTINUOUS.
- FOR MECHANICAL OPENINGS NOT SHOWN, USE SIMILAR BEAM AS SHOWN IN THAT WALL FOR SIMILAR LENGTH OPENINGS. VERIFY WITH ENGINEER.
- ALL MASONRY BEAMS, BEARING OR NON-BEARING SHALL BE SPECIAL INSPECTED.
- NO PENETRATIONS SHALL BE ALLOWED THROUGH ANY MASONRY BEAM WITHOUT THE ARCHITECT'S AND/OR STRUCTURAL ENGINEER'S WRITTEN APPROVAL.

STEEL:

- ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE "CODE OF STANDARD PRACTICE" EXCLUDING THE FOLLOWING: SECTION 1.5.1; SECTION 3.3, (FIRST SENTENCE); SECTION 4.2; SECTION 4.2.1; SECTION 4.2.2; SECTION 7.5.4; AND SECTION 7.11.5.
- ALL STRUCTURAL STEEL SHALL BE ASTM A572, GRADE 50, EXCEPT ALL STRUCTURAL TUBING SHALL BE MANUFACTURED TO Fy=46 KSI (RECTANGULAR) UNDER ASTM A500, GRADE B. ALL MISCELLANEOUS STEEL SHALL BE ASTM A36.
- ALL WELDS, WELDING, AND GAS CUTTING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF "THE AMERICAN WELDING SOCIETY," USING E70XX ELECTRODES, UNO. ALL WELDERS SHALL BE CURRENTLY CERTIFIED. ALL SHOP WELDING SHALL BE DONE BY AN APPROVED FABRICATOR AS PER THE IBC.
- ALL BOLTS SHALL BE 3/4" DIAMETER A325 BOLTS, EXCEPT THAT ANCHOR BOLTS SHALL BE A307 BOLTS WITH DIAMETERS AS SPECIFIED. ALL BOLTED CONNECTIONS SHALL HAVE WASHERS AS PER THE A.I.S.C. SPECIFICATIONS. ALL STEEL TO STEEL CONNECTIONS SHALL BE TIGHTENED ACCORDING TO AISC SPECIFICATIONS AND LOAD INDICATOR WASHERS SHALL BE USED ON ALL FRICTION TYPE CONNECTIONS.
- ALL STEEL JOISTS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE" AND SHALL HAVE SPECIFIC PRODUCT APPROVAL OF S.J.I.
- MECHANICAL EQUIPMENT, PIPES, AND OTHER CONCENTRATED LOADS, SHALL NOT BE PLACED ON NOR HUNG FROM STEEL JOISTS UNLESS THEY ARE AT PANEL POINTS OR A BRACE (2 ANGLES, L2x2x1/4) IS INSTALLED BETWEEN THE LOAD AND THE NEAREST OPPOSITE PANEL POINT.
- BRIDGING SHALL BE PROVIDED AS SHOWN ON DRAWINGS AND AS PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE EXACT LOCATION AS REQUIRED.
- METAL DECK SHALL CONFORM TO THE LATEST EDITIONS OF THE STEEL DECK INSTITUTE AND A.I.S.C. STANDARDS.
- ALL FULL PENETRATION WELDS SHALL BE ULTRASONICALLY OR RADIOGRAPHICALLY TESTED
- NO ITEMS REQUIRING ENGINEERED SUBMITTALS SHALL BE INSTALLED UNTIL REVIEWED BY THE ENGINEER OF RECORD AND APPROVED BY THE STATE OF UTAH BUILDING OFFICIAL.

LIGHTGAUGE METAL:

- ALL LIGHTGAUGE METAL STUDS AND ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2002 EDITION. INSTALLATION OF THESE MEMBERS SHALL COMPLY WITH ASTM C754.
- SHOP DRAWINGS SHALL BE SUBMITTED AS REQUIRED BY THE SPECIFICATIONS.
- ALL NON-LOAD BEARING WALLS SHALL BE ERECTED SO AS TO ALLOW FOR PROPER DEFLECTION OF STRUCTURE ABOVE. THE TOPS OF ALL SUCH WALLS SHALL BE HORIZONTALLY BRACED TO THE STRUCTURE ABOVE AT A MAXIMUM OF 8'-0" OC.
- ALL BRIDGING, BRACING, AND MISC. ACCESSORIES SHALL BE SUPPLIED BY THE MANUFACTURER.
- ALL WELDS AND WELDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF "THE AMERICAN WELDING SOCIETY," USING E70XX ELECTRODES, UNO. ALL WELDERS SHALL BE CURRENTLY CERTIFIED. ALL SHOP WELDING SHALL BE DONE BY AN APPROVED FABRICATOR AS PER THE IBC.

BASIS OF DESIGN:

APPLICABLE STANDARDS:
 GOVERNING BUILDING CODE.....INTERNATIONAL BUILDING CODE 2006
 BUILDING OCCUPANCY CATEGORY.....II

SNOW DESIGN:
 GROUND SNOW LOAD, P_g.....43 PSF
 FLAT-ROOF SNOW LOAD, P_r.....30 PSF
 SNOW EXPOSURE FACTOR, C_e.....1.0
 SNOW LOAD IMPORTANCE FACTOR, I_s.....1.0
 THERMAL FACTOR, C_t.....1.0

WIND DESIGN:
 BASIC WIND SPEED (3-SECOND GUST).....90 MPH
 WIND IMPORTANCE FACTOR, I_w.....1.0
 WIND EXPOSURE.....B

SEISMIC DESIGN:
 SEISMIC IMPORTANCE FACTOR, I_e.....1.0
 MAPPED MCE, S_s.....1.60g
 MAPPED MCE, S₁.....0.637g
 SITE CLASS.....D
 DESIGN, S_{ds}.....1.07g
 DESIGN, S_{d1}.....0.637g
 SEISMIC DESIGN CATEGORY.....D
 BASIC SEISMIC FORCE-RESISTING SYSTEM:
 SPECIAL REINFORCED MASONRY SHEAR WALLS
 RESPONSE MODIFICATION COEFF. R.....5.5
 SEISMIC RESPONSE COEFF. C_s.....0.195
 ANALYSIS PROCEDURE:
 EQUIVALENT LATERAL FORCE PROCEDURE

STEEL AND REBAR ALLOWANCE:

CONTRACTOR SHALL INCLUDE IN HIS BID ALLOWANCES OF 2 TONS OF STRUCTURAL STEEL AND 1 TON OF REINFORCING BARS, FABRICATED AND INSTALLED. UNUSED PORTIONS OF THESE ALLOWANCES SHALL BE CREDITED BACK TO THE OWNER AT THE COMPLETION OF THE PROJECT AT THE RATE OF \$2 PER POUND FOR STRUCTURAL STEEL AND \$1 PER POUND FOR REINFORCING BARS. NONE OF THESE ALLOWANCES SHALL BE USED WITHOUT WRITTEN PERMISSION OF THE ARCHITECT / STRUCTURAL ENGINEER.



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MHTN PROJECT NO. 2008552.00

DRAWN BY: TMS CHECKED BY: JEO

ISSUED:

NO.	DATE	DESCRIPTION
1	JULY 27, 2008	CONSTRUCTION DOCUMENTS
2	SEPT 3, 2009	BID SET

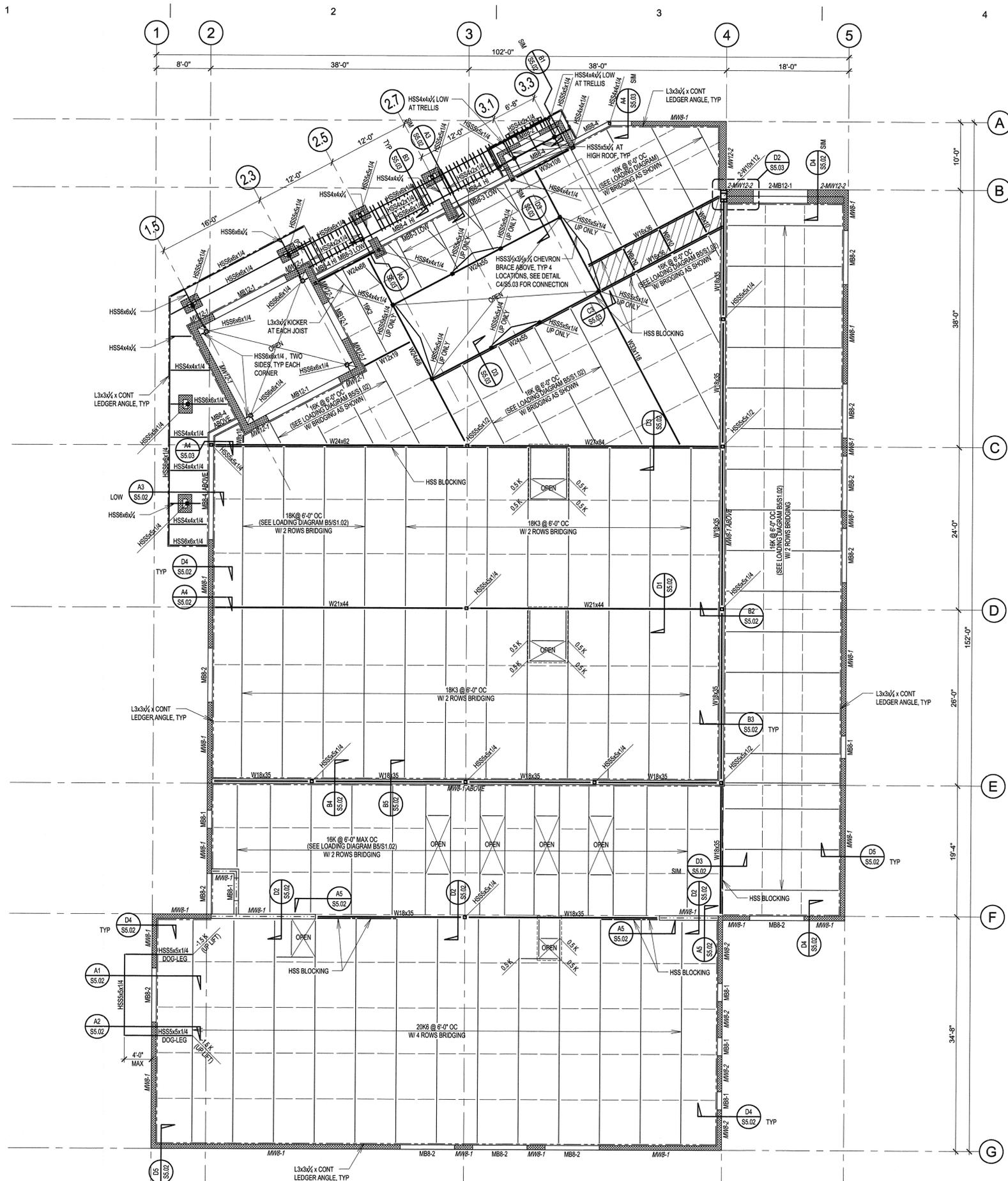
REVISION DATE:

NO.	DATE	DESCRIPTION

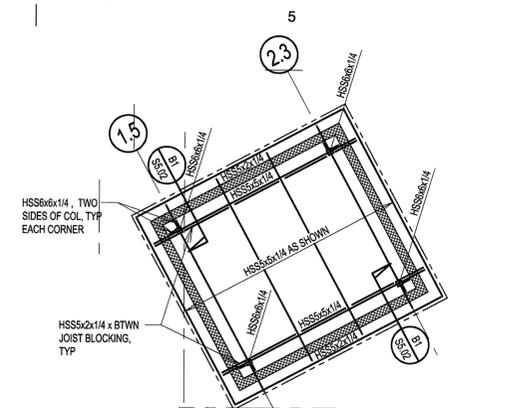
SHEET NAME
STRUCTURAL GENERAL NOTES & DETAILS

BID SET
09.03.09

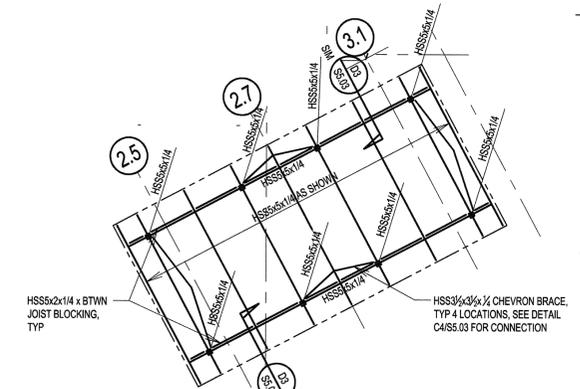
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S0.01



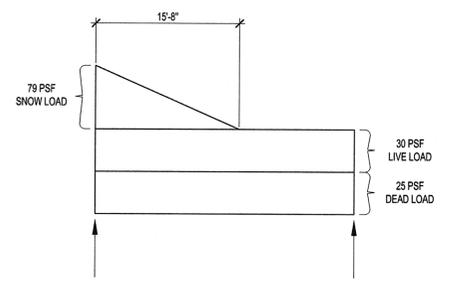
A1 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



D5 TOWER FRAMING PLAN
SCALE: 1/8" = 1'-0"



C5 SKYLIGHT FRAMING PLAN
SCALE: 1/8" = 1'-0"



B5 JOIST LOADING DIAGRAM
SCALE: NONE

- ROOF FRAMING NOTES:**
- ROOF DECK:
1 1/2" DEEP, 20 GAUGE, GALVANIZED, TYPE "B" DECK, WITH INTERLOCKING SIDE LAPS. USE 3 SPAN MINIMUM.
DENOTES 1 1/2" DEEP, 16 GAUGE, GALVANIZED, TYPE "B" DECK
 - WELD DECK AS FOLLOWS:
- ATTACH SIDE LAPS W/ 1 1/2" LONG TOP SEAM WELDS @ 12" OC.
- ATTACH TO PERPENDICULAR SUPPORTS W/ 3/4" Ø PUDDLE WELDS @ EVERY FLUTE.
- ATTACH TO PARALLEL SUPPORTS W/ 3/4" Ø PUDDLE WELDS @ 12" OC.
 - USE DETAIL C3/S0.02 AT ROOF OPENINGS, TYP. COORDINATE LOCATIONS OF OPENINGS WITH ARCHITECTURAL AND/OR MECHANICAL DRAWINGS.
 - NON-BEARING METAL STUD WALLS SHALL BE BRACED AT TOP AS PER DETAIL C1/S0.02.
 - BEAM TO BEAM CONNECTIONS SHALL BE AS PER DETAIL B3/S0.02, UNO.
 - BEAM TO COLUMN CONNECTION SHALL BE AS PER DETAIL A3/S0.02, UNO.
 - JOIST MANUFACTURER SHALL COORDINATE WITH ARCHITECTURAL/MECHANICAL DRAWINGS FOR LOCATION AND WEIGHT OF ROOF TOP UNITS AND DESIGN JOISTS FOR SUCH LOADS.
 - ALL MASONRY WALLS SHALL BE MW8-1, UNO.

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MHTN PROJECT NO. 200852.00
DRAWN BY: TKS CHECKED BY: JEG

NO.	DATE	DESCRIPTION
1	JULY 27, 2008	CONSTRUCTION DOCUMENTS
2	SEPT 3, 2009	BID SET

NO.	DATE	DESCRIPTION

SHEET NAME:
ROOF FRAMING PLAN

BID SET 09.03.09

S1.02

By: July 15, 2008 - 1:53pm
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