STATE OF UTAH
DEPARTMENT OF CORRECTIONS

DRAPER PRISON ADMINISTRATION / ACADEMY BUILDING IMPROVEMENTS

DATE ISSUED: 7 MARCH 2007

State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

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

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2003	National Electrical Code	2003
International Mechanical Code	2003	Uniform Code for Building Conservation	N/A
International Plumbing Code	2003	ADA Accessibility Guildelines	2002
International Fire Code	2002		
International Energy Conservation Code	2003		

A. Occupancy and Group: S-1

Change in Use: Yes _____ No X Mixed Occupancy: Yes _____ No X

Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

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

Eposure C

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: 0 South: 0 East: 0 West: 0

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

F: Sprinklers:

Required: N/A Provided: N/A Type of Sprinkler System: N/A

G: Number of Stories: 1 Building Height: 20'

H: Actual Area per Floor (square feet): 2400

I: Tabular Area: 9000

J: Area Modifications:

N/A

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

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

L. Design Occupant Load: 8

Exit Width Required: 1 Exit Width Provided: 2

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.

PROJECT SUMMARY

PROJECT NAME: MAINTENANCE FACILITY

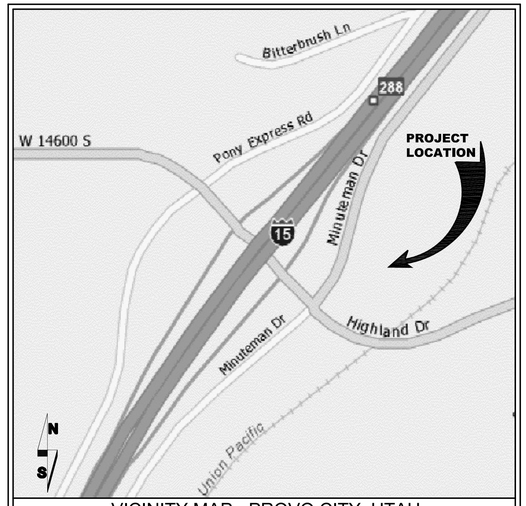
SITE ADDRESS: DRAPER PRISON ADMINSTRATION BUILDING 14717 FRONTAGE ROAD DRAPER, UTAH

ARCHITECT: SMITH HYATT ARCHITECTS 845 S. MAIN STREET BOUNTIFUL, UTAH 84010 PHONE: (801)298-5777 FAX: (801)299-1677

STRUCTURAL ENGINEER: WCA ENGINEERING 442 N. MAIN STREET BOUNTIFUL, UTAH 84010 PHONE: (801)298-1118 FAX: (801)298-1122

CODE COMPLIANCE

APPLICABLE CODES: ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS & DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, A.D.A., AND REGULATIONS OF GOVERNING BODIES INVOLVED. SUCH CODES AND REGULATIONS SHALL HAVE PRECEDENCE OVER THAT WHICH IS INDICATED ON THE CONSTRUCTION DOCUMENTS. IN CASES OF DISCREPENCIES, OMISSIONS, CHANGES IN CODES OR CODE INTEPRETATIONS BY CODE OFFICIALS WHICH CAUSE A CHANGE IN THE WORK, NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH THE PORTION OF THE WORK AFFECTED BY THE CHANGE. ANY MODIFICATIONS TO THE CONTRACT WORK REQUIRED BY SUCH AUTHORITIES, SHALL BE SUBJECT TO THE RECEIPT OF AN AFFIDAVIT OR LETTER FROM THE GOVERNING BODY AND OWNER'S PRIOR APPROVAL. ALL PERMITS, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THOSE LISTED IN THE CODE ANALYSIS.



VICINITY MAP - PROVO CITY, UTAH

DESIGN / BUILD

THIS IS METAL BUILDING PROJECT. THE METAL BUILDING IS TO BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH APPLICALBLE REGULATIONS AND ESTABLISHED DESIGN CRITERIA. THE STRUCTURAL INTEGRITY OF THE METAL STRUCTURE IS TO BE THE COMPLETE RESPONSIBILITY OF THE INSTALLER AND THE MANUFACTURER.

ELECTRICAL / MECHANICAL ITEMS SHOWN IN CONSTRUCTION DRAWINGS ARE SCHEMATIC AND ARE PROVIDED ONLY TO INDICATE LOCATION AND QUANITIES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, ORDINANCES AND APPLICABLE REGULATIONS

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW 2400SF METAL BUILDING FOR MAINTENANCES PURPOSES

LICENSED PROFESSIONAL ARCHITECT 117557 Thomas G. Smith STATE OF UTAH

SHEET INDEX

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BUILDING NAME:

PROPERTY#06139100
ADMIN. / ACADEMY BLDG.
DRAPER PRISON
14717 FRONTAGE ROAD
DRAPER, UTAH

PROJECT TITLE:

DRAPER, UTAH
DRAPER PRISON
ADMIN / ACADEMY BLDG.
IMPROVEMENTS

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: 7 MARCH 2007

DFCM PROJECT NO: 06139100
CAD PROJECT NO: 06-17
CAD DWG FILE:
DRAWN BY: JRC
CHK'D BY: TGS
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SHEET TITLE

CONSTRUCTION DOCUMENT SUBMITTAL COVER SHEET

SHEET NUMBER

G1.0

ELECTRICAL GENERAL NOTES

1. THIS IS A DESIGN-BUILD ELECTRICAL . IF APPLICABLE, ELECTRICAL ITEMS SHOWN IN CONSTRUCTION DRAWINGS ARE SCHEMATIC AND ARE PROVIDED ONLY TO INDICATE LOCATION. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LAYOUT AND INSTALLATION.
2. COORDINATE WITH OWNER, ARCHITECT/INTERIOR DESIGNER AND / OR PLANS FOR FIXTURE SCHEDULES, STYLES, FINISHES, ETC.
3. WORK IS TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE REGULATIONS AND LAWFUL ORDERS OF PUBLIC AUTHORITIES INCLUDED BY NOT LIMITED TO, THE CURRENT N.E.C. CODES AND 2006 INTERNATIONAL BUILDING CODES.
4. CENTER OF ALL OUTLETS TO BE 18" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. CENTER OF OUTLETS OVER CABINETS, VANITYS, ETC. TO BE 12" ABOVE FINISH COUNTER HEIGHT UNLESS NOTED OTHERWISE.
5. CENTER OF ALL SWITCHS TO BE 42" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. CENTER OF SWITCHES OVER CABINETS, VANITYS, ETC. TO BE 12" ABOVE FINISH COUNTER HEIGHT UNLESS NOTED OTHERWISE.
6. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL ELECTRICAL FIXTURES, SWITCHES, ETC. WITH OWNER AND DESIGNER PRIOR TO WIRING.
7. CONTRACTOR TO PROVIDE ELECTRICAL SERVICE TO MECHANICAL EQUIPMENT AS REQUIRED.
8. PROVIDE ONE GFI PROTECTED OUTLET IN RESTROOM
9. PROVIDE GFI PROTECTED EXTERIOR OUTLET WITH BUBBLE COVERS IMMEDIATELY ADJACENT TO ENTRY DOORS.

PLUMBING GENERAL NOTES

1. THIS IS A DESIGN BUILD PLUMBING PROJECT AND AS SUCH PLUMBING LAYOUTS ARE SHOWN IN SCHEMATIC. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LAYOUT AND INSTALLATION OF ALL RELATED ITEMS AND RELATED TRADES.
2. ALL WORK TO COMPLY WITH CURRENT MECHANICAL / PLUMBING CODES AND 2006 INTERNATIONAL BUILDINGL CODES.
3. PLUMBING DESIGN MUST MEET CITY, STATE, AND PLUMBING BACKFLOW REQUIREMENTS.
4. PROVIDE SIESMIC RESTRAINT OF WATER HEATER.
5. PROVIDE EXPANSION TANK AT WATER HEATER.
6. GAS LINE SIZED AS NEEDED
7. ALL PLUMBING FIXTURES TO BE HIGH GRADE COMMERCIAL QUALITY, AS APROVED BY THE OWNER/ARCHITECT.

MECHANICAL GENERAL NOTES

1. THIS IS A DESIGN BUILD MECHANICAL PROJECT AND AS SUCH MECHANICAL LAYOUTS ARE SHOWN IN SCHEMATIC. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LAYOUT AND INSTALLATION OF ALL RELATED AND RELATED TRADES.
2. ALL WORK TO COMPLY WITH CURRENT MECHANICAL / PLUMBING CODES AND 2006 INTERNATIONAL BUILDING CODES.
3. PROVIDE OUTSIDE COMBUSTION AREA AT FURNACE ROOM
5. BATHROOM MECHANICAL VENTILATION SYSTEMS TO PROVIDE 50 CFM. DUCT TO VENT THROUGH ROOF.
6. PROVIDE TYPE "B" VENT THROUGH ROOF. PROVIDE FLASHING AT VENTS TO INSURE WEATHER TIGHT SEAL.
7. PROVIDE COMBUSTION AIR LOUVERS FROM OUTSIDE INTO FURNACE ROOM

REFERENCE KEY INDEX

N	NORTH ARROW KEY
1 TITLE 1"-0" = 1'-0"	PLAN TITLE AND SCALE
0 1/2" 1" 2" SCALE: 1'-0" = 1'-0"	BAR SCALE
X	COLUMN LINE KEY
XXX ROOM	ROOM DESIGNATION KEY
4	ELEVATION KEY
0 A-000	DETAIL SECTION KEY
0 A-000	BUILDING SECTION KEY
0 A-000	ELEVATION REFERENCE KEY
XX	DOOR IDENTIFICATION KEY
	WINDOW IDENTIFICATION KEY
	FINISH IDENTIFICATION KEY
XX	NOTE REFERENCE KEY
	WALL TYPE IDENTIFICATION
X	PLAN REVISION KEY
	FINISH CHANGE KEY
0 A-000	ENLARGED PLAN / DETAIL REFERENCE

GRAPHIC INDEX

	NEW LOW HEIGHT WALL CONSTRUCTION
	NEW FULL HEIGHT WALL CONSTRUCTION
	NEW RATED WALL CONSTRUCTION
	EXISTING RATED WALL CONSTRUCTION
	WALL CONSTRUCTION ABOVE OR BEYOND
	WALL CONSTRUCTION TO BE REMOVED
	COMPACTED SUBGRADE
	COMPACTED STONE BASE
	COMPACTED SAND BASE (SECTION) POURED CONCRETE (PLAN)
	POURED CONCRETE (SECTION)
	CONRETE MASORY UNIT
	STEEL CONSTRUCTION
	RIGID INSULATION
	BATT INSULATION
	WOOD FRAME CONTINUOUS
	WOOD FRAME BLOCKING
	FINISH WOOD TRIM

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ALUM	ALUMINUM
BD	BOARD
BLKG	BLOCKING
BUR	BUILT UP ROOF
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CLG	CEILING
CMU	CONCRETE MASONARY UNIT
CONC	CONCRETE
DTL	DETAIL
DR	DOOR
ELEC	ELECTRICAL
ELEV	ELEVATION
EXT	EXTERIOR
FIN FL	FINISH FLOOR
FRP	FIBERGLASS REINFORCED PANEL
GA	GAUGE
GL	GLASS
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HORIZ	HORIZONTAL
HVAC	HEATING VENTING AND AIR CONDITIONING
INS	INSULATION
INT	INTERIOR
LH	LEFT HAND
MDF	MEDIUM DENSITY FIBER
MECH	MECHANICAL
MFR	MANUFACTURED
MTL	METAL
NIC	NOT IN CONTRACT
OPH	OPPOSITE HAND
PLAM	PLASTIC LAMINATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAINTED
PWD	PLYWOOD
REF	REFERENCE
RH	RIGHT HAND
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SIM	SIMILAR CONDITION
SPEC	SPECIFICATION
SST	STAINLESS STEEL
STCO	STUCCO
STL	STEEL
SYN	SYNTHETIC
TOB	TOP OF BEAM
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
TYP	TYPICAL ALL LOCATIONS
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VCT	VINYL COMPOSITE TILE
WD	WOOD

GENERAL CONSTRUCTION NOTES

(1) DRAWINGS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE WORK INDICATED ON THE DRAWINGS SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE WORK.

(2) PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, INCLUDING DEMOLITION, MECHANICAL AND ELECTRICAL INSTALLATIONS AND SHALL ADJUST BID ACCORDINGLY.

(3) CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS ON THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN BEFORE PROCEEDING.

(4) NOTIFY **ARCHITECT OR ENGINEER** OF ANY MAJOR DISCREPANCY REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION.

(5) INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

(6) CONTRACTORS SHALL VISIT JOB SITE TO REVIEW SCOPE OF WORK AND EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL SERVICE, ELECTRICAL SERVICE AND OVERALL COORDINATION.

(7) ALL TELEPHONE/EQUIPMENT LAYOUT, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK AND CLEARANCE REQUIRED BY OTHERS RELATED TO SAID EQUIPMENT.

(8) ALL WORK PERFORMED AND MATERIALS SHALL MEET THE HIGHEST TRADE STANDARDS. AS A MINIMUM STANDARD, CONFORM WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.

(9) ELECTRICAL SYSTEMS SHALL BE INSTALLED PER NEC AND IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

(10) CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE JOB SITE AND SHALL SUPERVISE AND DIRECT ALL WORK. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND WITH COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

(11) PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.

(12) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) 2003, ALONG WITH MOST CURRENT EDITION UPS, UMC, AND THE NEC.

(13) CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES THAT ARE TO REMAIN, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING CONSTRUCTION.

(14) SEAL ALL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED OR F.M. APPROVED MATERIALS.

(15) DETAILS AND SCHEMATICS ARE TO PROPOSED TO SHOW END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY DEEM TO BE NECESSARY TO SUIT JOB CONDITIONS AND DIMENSIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

(16) VERIFY ALL FINAL EQUIPMENT LOCATIONS WITH OWNERS REPRESENTATIVE.

(17) DIMENSIONS ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED.

(18) CLEANUP AND SAFETY: KEEP PROJECT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND EQUIPMENT REMOVED AND NOT SPECIFIED AS REMAINING THE PROPERTY OF THE OWNER. LEAVE ROOM CLEAN (PREMISES IN A VACUUM AND BROOM CLEAN CONDITION) FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEMS EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY CONSTRUCTION MANAGER. CLEAN UP DAILY AT CONSTRUCTION MANAGERS DISCRETION.

(19) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION.

METAL BUILDING SPECIFICATIONS

1. GENERAL
   - 1.1 SCOPE
     THE BUILDING SHALL INCLUDE ALL STRUCTURAL FRAMES AND FRAMING MEMBERS, CONNECTION BOLTS WALL AND ROOF PANELS, SKYLIGHTS, WINDOWS, DOORS, VENTILATORS, FLASHING, FASTENERS AND ALL OTHER ITEMS CALLED FOR IN THE DRAWINGS AND SPECIFICATIONS WHICH ARE PERTINENT TO THE BASIC STEEL STRUCTURE.
   - 1.2 DESCRIPTION
     - 1.2.1. CLEAR SPAN BUILDINGS
       "RF", BUILDINGS SHALL BE OF THE SINGLE GABLE, RIGID FRAME TYPE. THE PRIMARY TRANSVERSE RIGID FRAMES SHALL BE CLEAR SPAN.
       "RF STRAIGHT COLUMN" SHALL HAVE STRAIGHT COLUMNS WITH TAPERED RAFTERS SECONDARY GIRT MOUNT SHALL BE EITHER CONTINUOUS BY-PASS MOUNTED OR SIMPLY SUPPORTED FLUSH MOUNTED.
   - 1.3 NOMENCLATURE
     - 1.3.1. THE BUILDING WIDTH AND LENGTH SHALL BE MEASURED FROM THE INSIDE FACE TO INSIDE FACE OF THE WALL COVERING.
     - 1.3.2. THE BUILDING EAVE HEIGHT SHALL BE MEASURED FROM THE BOTTOM OF THE BASE PLATE OF THE EXTREME FRAME COLUMNS TO THE TOP OF THE EAVE STRUT.
     - 1.3.3. THE ROOF SLOPE SHALL BE A RISE OF AS SPECIFIED.
     - 1.3.4. THE BAY SPACING BETWEEN FRAME CENTER LINES SHALL BE:
       - A. BAY SPACING AS SPECIFIED.
   - 1.4 DRAWINGS
     COMPLETE ERECTION DRAWINGS, ANCHOR BOLT SETTING PLANS, FLASHING DETAILS, AND ACCESSORY INSTALLATION DETAILS SHALL BE FURNISHED WITH ALL PARTS CLEARLY INDICATED WITH PART MARKS FOR PROPER ASSEMBLY. THOSE ERECTING BUILDING SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATION FROM THE RECOMMENDED ERECTION INSTRUCTIONS.
2. DESIGN
   - 2.1 GENERAL
     - 2.1.1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE NINTH EDITION OF THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STEEL FOR BUILDINGS".
     - 2.1.2. ALL LIGHT GAGE COLD FORMED, S TRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE 1986 EDITION OF THE AISI "SPECIFICATIONS FOR THE DESIGN OF LIGHT GAGE COLD-FORMED STEEL STRUCTURAL MEMBERS".
   - 2.2 DESIGN CRITERIA
     - 2.2.1. THE ROOF DEAD LOAD SHALL BE ASSUMED TO BE DISTRIBUTED UNIFORMLY OVER THE ENTIRE ROOF AREA.
     - 2.2.2. THE APPLICATION OF THE ROOF LIVE LOAD TO ROOF COVERING SECONDARY AND PRIMARY FRAMING SHALL BE IN ACCORDANCE WITH THE MINIMUMS ALLOWED BY THE GOVERNING BUILDING CODE UNLESS EXCEPTIONS ARE SPECIFICALLY NOTED EXCLUDING TRIBUTARY LOADING.
     - 2.2.3. IN THE DESIGN OF PRIMARY AND SECONDARY MEMBERS, WIND VELOCITY PRESSURE SHALL BE APPLIED AS PRESCRIBED BY THE SPECIFIED BUILDING CODE OR AS PRESCRIBED BY THE 1986 EDITION OF THE "LOW RISE BUILDING SYSTEMS MANUAL" AS PUBLISHED BY THE METAL BUILDING MANUFACTURERS ASSOCIATION.
     - 2.2.4. MAGNITUDES SHALL BE AS SPECIFIED BY LOCAL BUILDING CODES OR OTHER GOVERNING BODIES. IN THE ABSENCE OF OTHER SPECIFICATIONS, THE MAGNITUDE OF THE LOADS SHALL BE AS RECOMMENDED BY THE "LOW RISE BUILDING SYSTEMS MANUAL" AS PUBLISHED BY THE METAL BUILDING MANUFACTURERS ASSOCIATION.
     - 2.2.5. ALL WALL GIRTS AND ROOF PURLINS SHALL BE DESIGNED AS SIMPLE OR CONTINUOUS BEAMS. EACH INTERIOR RIGID FRAME SHALL BE DESIGNED TO CARRY EQUAL LOADS THAT RESULT FROM A SIMPLE SPAN PURLIN OR GIRT SYSTEM.
   - 2.3 DESIGN LOAD COMBINATIONS
     - 2.3.1. DEAD LOAD + LIVE LOAD (DL+LL)
     - 2.3.2. DEAD LOAD + WIND LOAD (DL+WL)
     - 2.3.3. DEAD LOAD + SNOW LOAD (DL+SL)
     - 2.3.4. DEAD LOAD + SEISMIC LOAD (DL+SEIS)
     - 2.3.5. OTHER LOAD COMBINATIONS SHALL BE AS RECOMMENDED BY THE SPECIFIED BUILDING CODE OR BY THE "LOW RISE BUILDING SYSTEMS MANUAL" AS PUBLISHED BY THE METAL BUILDING MANUFACTURERS ASSOCIATION.
   - 2.4 BUILDING MATERIALS BY OTHERS
     ALL BUILDING MATERIALS NOT PROVIDED BY THE BUILDING MANUFACTURER SHALL BE PROPERLY DESIGNED TO SUSTAIN ALL LOADS IMPOSED ON THEM AND TO TRANSFER THOSE LOADS TO THE BUILDING MANUFACTURER'S PRIMARY FRAMING SYSTEM.

3 STRUCTURAL FRAMING
- 3.1. GENERAL
  - 3.1.1. ALL FRAMING MEMBERS SHALL BE SHOP FABRICATED FOR BOLTED FIELD ASSEMBLY.
  - 3.1.2. NOMENCLATURE
    - A. PRIMARY STRUCTURAL FRAMING SHALL REFER TO THE TRANSVERSE RIGID FRAMES, LEAN-TO RAFTER BEAMS AND COLUMNS, CANOPY BEAMS, I INTERMEDIATE SUPPORT COLUMNS AND LONGITUDINAL WIND BRACING.
    - B. SECONDARY STRUCTURAL FRAMING SHALL REFER TO PURLINS, GIRTS, EAVE STRUTS, FLANGE BRACING STRUTS, TENSION RODS, CLIPS, ETC.
  - 3.1.3. ALL HOT ROLLED STEEL SHEET, PLATE, AND STRIP SHALL HAVE A MINIMUM TESTED YIELD STRENGTH OF 50,000 PSI WHEN USED AS FLANGE MATERIAL AND WEB MATERIAL ALL STRIP FOR LIGHT GAUGE PURLINS AND GIRTS SHALL BE 57,000 PSI MINIMUM TESTED YIELD STRENGTH. HOT ROLLED MILLED SHAPES SHALL HAVE A MINIMUM TESTED YIELD STRENGTH OF 36,000 PSI UNLESS NOTED OTHERWISE ON THE ERECTION DRAWINGS.
  - 3.1.4. ALL FIELD CONNECTIONS SHALL BE BOLTED. ALL BOLTS FOR SECONDARY FRAMING, LIGHT ENDWALL FRAMES, AND ENDWALL COLUMNS SHALL BE A MINIMUM OF 1/2" DIAMETER CONFORMING TO ASTM A-307 OR ASTM A-325 AS SHOWN ON THE DRAWINGS. ALL BOLTS FOR PRIMARY STRUCTURAL MEMBERS, EXCLUDING LIGHT ENDWALL FRAMES AND ENDWALL COLUMNS, SHALL BE A MINIMUM OF 3/4" DIAMETER CONFORMING TO ASTM A-325. A-325 BOLTS SHALL BE TIGHTENED BY THE TURN-OF-THE-NUT METHOD. ALL BOLTS, NUTS AND WASHERS SHALL BE UNPLATED.
  - 3.1.5. ALL FRAMING MEMBERS SHALL BE MARKED FOR IDENTIFICATION AND ERECTION.
- 3.2 RIGID FRAMES, LEAN-TO FRAMES, CANOPY BEAMS
  ALL MEMBERS SHALL BE MILL SECTIONS OR WELDED BUILT UP "I" SHAPES EITHER CONSTANT DEPTH OR TAPERED.
  ALL FLANGE-TO-WEB WELDING FOR BUILT-UP SECTIONS SHALL BE DONE BY A SUBMERGED ARC AUTOMATIC WELDING PROCESS.
- 3.3 PURLINS AND GIRTS
  PURLINS AND GIRLS SHALL BE ROLL-FORMED "Z" SECTIONS OF A DEPTH AND GAGE AS NEEDED TO CONFORM TO THE PARTICULAR DESIGN CRITERIA.
- 3.4 EAVE STRUTS
  EAVE STRUTS SHALL BE 8 INCH DEEP BY 5 INCH BOTTOM FLANGE UNSYMMETRICAL "C" SECTIONS USED TO PROPERLY AND ADEQUATELY RECEIVE BOTH THE ROOF PANELS AND WALL PANELS AND TO SERVE AS A COMPRESSION MEMBER TO TRANSFER ENDWALL WIND LOADS.
- 3.5 WIND BRACING
  WIND BRACING SHALL CONSIST OF CABLE IN BOTH THE ROOF AND SIDEWALLS. THE SIZE AND NUMBER OF CABLES REQUIRED SHALL DEPEND ON THE AMOUNT OF WIND LOAD TO BE TRANSFERRED TO THE FOUNDATION. WIND BRACING MAY ALSO BE PROVIDED BY THE DIAPHRAGM ACTION OF THE ROOF AND/OR WALL PANELS.
- 3.6 FLANGE BRACING
  THE COMPRESSION FLANGE SHALL BE LATERALLY SUPPORTED SO THAT THE ALLOWABLE COMPRESSIVE STRESS IS NOT EXCEEDED.
- 3.7 BASE ATTACHMENT
  THE BOTTOM OFF THE WALL PANELS SHALL BE FASTENED TO A BASE ANGLE LOCATED ON THE FLOOR SLAB.
- 3.8 PAINTING
  ALL STRUCTURAL FRAMING MEMBERS, WHICH ARE NOT GALVANIZED OR OTHERWISE COATED, SHALL BE CLEANED AND GIVEN ONE SHOP COAT OF PRIMER. THERE SHALL BE NO FINISHED PAINT APPLICATIONS. THE PRIMER SHALL BE FORMULATED TO EQUAL OR EXCEED THE END PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATION SSPC15-68T.

4. ROOF AND WALL COVERING
- 4.1 GENERAL
  - 4.4.1. ROOF COVERING SHALL BE 26 GAGE, PRE-FINISHED COLOR COATED, RIBBED PANELS.
  - 4.4.2. WALL COVERING SHALL BE 1/2" EIFS (ICBO APPROVED SYSTEM) OVER TYVEK "STUCCOWRAP" MOISTURE BARRIER.
- 4.2 PANEL MATERIALS
  MATERIAL FOR GALVANIZED STEEL PANELS SHALL BE FORMED FROM FLAT COILED SHEET AND SHALL BE GALVANIZED WITH A ZINC COATING.
- 4.3 PANEL CONFIGURATION
  - 4.3.1. "ULTRA-DECK" STANDING SEAM PANELS WITH 3 INCH TALL SNAP-LOCK SEAMS. THE FLAT WIDTH BETWEEN MAJOR RIBS SHALL BE STIFFENED BY TWO MINOR RIBS. EACH PANEL SHALL HAVE 24" NET COVERAGE. FASTENERS SHALL BE CONCEALED BY USE OF CLIPS AND MOUNTING PLATES.
- 4.4 FASTENERS
  - 4.4.1. SHEET METAL SCREWS SHALL BE NO. 14 X 3/4" HEX HEAD, SELF-TAPPING WITH STEEL BACKED NEOPRENE WASHERS, OR NO. 12 X 1-1/4" SELF-DRILLING WITH STEEL BACKED NEOPRENE WASHERS. THE TYPE OF FASTENER SHALL BE AS REQUIRED BY THE BUILDER.
  - 4.4.2. FINISHES
    - A. STANDARD BUILDINGS SHALL BE FURNISHED WITH CADMIUM PLATED SCREWS.
    - B. WHEN PANELS ARE COLOR COATED, ALL VISIBLE WALL SCREWS AND METAL WASHERS SHALL BE COLOR COATED TO MATCH.
- 4.5 SEALER
  SEALER FOR SIDELAPS, ENDLAPS, AND FLASHING SHALL BE 1/2" WIDE BY 3/32" THICK, DARK GRAY PRESSURE SENSITIVE TAPE. SERVICE TEMPERATURE RANGE SHALL BE FROM -60° F TO +300° F.
- 4.6 FLASHING, CLOSURES, AND TRIM
  - 4.6.1. FLASHING AND/OR TRIM SHALL BE FURNISHED AT THE RAKE, CORNERS, AND EAVES, AT FRAMED OPENINGS, AND WHEREVER NECESSARY TO PROVIDE FINISHED APPEARANCE.
  - 4.6.2. A DIE-FORMED RIDGE CAP SHALL BE FORMED TO MATCH ROOF SLOPE AND SHALL BE THE SAME CONFIGURATION AS THE ROOF PANELS.
  - 4.6.3. SOLID CELL, PREFORMED, RUBBER OR NEOPRENE CLOSURES MATCHING THE PROFILE OF THE WALL AND ROOF PANELS SHALL BE INSTALLED ALONG THE EAVE AND/OR RAKE WHERE REQUIRED.
- 4.7 COLOR FINISH
  COLOR COATED ROOF AND WALL PANELS, FLASHING AND TRIMS SHALL BE SELECTED TO MATCH ADJACENT EXISTING BUILDING FROM THE MANUFACTURER'S STANDARD SELECTION. COLOR COATED PANELS SHALL BE AVAILABLE WITH THE SUPPLIER'S OR MANUFACTURER'S STANDARD WRITTEN 20 YEAR GUARANTEE COVERING CHALKING, FADING, BLISTERING, CHECKING, AND PEELING. COLOR COATING SPECIFICATIONS SHALL BE AVAILABLE UPON REQUEST.

5. ACCESSORIES
   - 5.1 HOLLOW METAL SWING DOORS IN ALL STANDARD SIZES S WITH STANDARD PASSAGE LATCHES, LOCK SETS AND THRESHOLDS. (SEE HARDWARE SCHEDULE)
   - 5.2 SKYLIGHTS SHALL BE 8 OUNCE GLASS FIBER REINFORCED POLYESTER TRANSLUCENT PANELS FORMED TO MATCH ROOF PANEL CONFIGURATION. THESE SHALL BE AVAILABLE IN WHITE STANDARD.
   - 5.3 ROUND VENTILATORS SHALL BE FURNISHED IN 20" DIAMETER WITH DAMPERS. MONOVENTS SHALL BE IN 10' SECTIONS WITH EITHER 9" OR 12" THROAT SIZES WITH OR WITHOUT DAMPERS. BIRD SCREEN SHALL BE FURNISHED ON BOTH ROUND VENTILATORS AND MONOVENTS.
6. BUILDING ANCHORAGE AND FOUNDATIONS
   - 6.1 ANCHORAGE
     THE BUILDING ANCHOR BOLTS AND RELATED ANCHORAGE SHALL BE DESIGNED TO RESIST THE COLUMN REACTIONS RESULTING FROM THE DESIGN LOADS. THE DIAMETER OF THE ANCHOR BOLTS SHALL BE AS SPECIFIED BY THE BUILDING MANUFACTURER. THE ANCHOR BOLTS SHALL BE FURNISHED BY THE CONCRETE CONTRACTOR.

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BUILDING NAME:

PROJECT # 06139100
DRAPER PRISON ADMIN./ ACADEMY BLDG. IMPROVEMENTS

14717 FRONTAGE ROAD
DRAPER, UTAH

PROJECT TITLE:

DRAPER PRISON ADMIN./ ACADEMY BLDG. IMPROVEMENTS

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: 7 MARCH 2007

DFCM PROJECT NO: 06139100
CAD PROJECT NO: 06-17
CAD DWG FILE:
DRAWN BY: JC
CHK'D BY: TS

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SHEET TITLE

GENERAL INFORMATION

SHEET NUMBER

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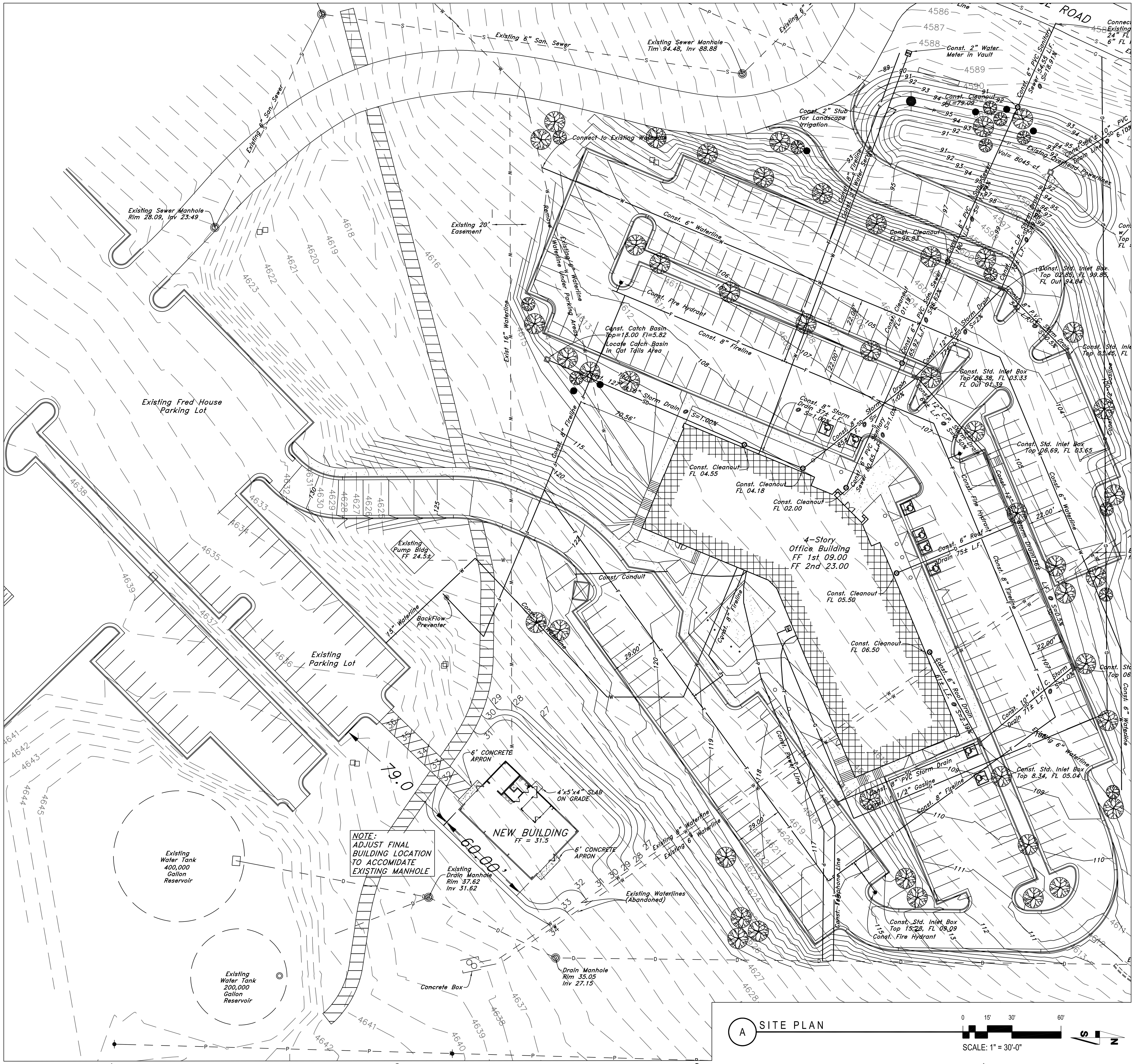

A SITE PLAN

SCALE: 1" = 30'-0"

GENERAL SITE NOTES

1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES, UNLESS OTHERWISE NOTED OR REQUIRED BY NEW CONSTRUCTION OR UTILTY INSTALLATION.

2. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF INSTALLING UTILITIES. SIZE, LOCATION, AND TYPE OF NEW UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO OWNER AT COMPLETION OF PROJECT. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING UTILITIES. COVERED UTILITY LINES TO BE COMPACTED.

4. CONTRACTOR SHALL COMPACT FILL AND GRADE SITE WORK AREA TO BE SMOOTH AND CONTINUOUS IN SLOPE AWAY FROM BUILDING AND FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.

5. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

6 EXTERIOR CONCRETE SHALL HAVE A 2% SLOPE AWAY FROM BUILDING

SITE WORK

PART 1 GENERAL

(1) RELATED WORK: CONSTRUCTION OF BUILDING FOUNDATION

(2) SITE SHALL BE CONSTRUCTED TO PROVIDE A WELL DRAIN AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONN

(3) QUALITY ASSURANCE
  (A) APPLY SOIL STERILIZER IN ACCORDANCE WITH MAN

(4) SEQUENCING
  (A) CONFIRM SURVEY STAKES AND SET ELEVATIONS PP
  (B) THE COMPLETE CONSTRUCTION SITE AREA WILL BE PLACEMENT OF BACK FILL OR SUB-BASE MATERIA
  (C) THE SITE AREA WILL BE BROUGHT TO SUB-BASE
  (D) APPLY SOIL STERILIZER PRIOR TO PLACING BASE
  (E) REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION BY CONSTRUCTION MANAGER.
  (F) AFTER COMPLETION OF CONSTRUCTION BUT PRIOR THREE (3) INCHES OF 1/4 INCH SIZE STONE TO

(5) WARRANTY
  (A) IN ADDITION TO THE WARRANTY ON ALL CONSTRU CONTRACTOR SHALL REPAIR ALL DAMAGE AND REP AS POSSIBLE TO SURROUNDING CAUSED BY CONS
  (B) SOIL STERILIZATION APPLICATION WILL GUARANTEE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 DEMOLITION

(1) DEMOLITION SHALL BE CONTROLLED TO PREVENT THE BUILDING.

(2) EXISTING WORK TO REMAIN SHALL BE PROTECTED FR SHALL BE REPAIRED TO MATCH EXISTING WORK.

(3) AT THE END OF EACH WORK DAY AND DURING INCLE WITH WEATHERPROOF COVER.

(4) REMOVE DEBRIS AND RUBBISH FROM THE SITE DAILY ACCUMULATE IN BUILDING OR ON SITE.

(5) FOR FLOOR AND WALL PENETRATIONS:
  (A) CONTRACTOR MUST LOCATE REINFORCING BARS IN NONDESTRUCTIVE TESTING METHOD APPROVED BY CABLE PENETRATION WITHOUT CUTTING EXISTING RE
  (B) FILL OPENING AFTER CABLE INSTALLATION WITH IN

PART 3 PRODUCTS

(1) MATERIALS: SOIL STERILIZERS
  (A) TOTAL KILL PRODUCT 910 – EPA 10292-7, PHAS 48128 (1-313-563-8000).
  (B) AMBUSH HERBICIDE – EPA REGISTERED, FARMER NJ 07083 (1-800-526-4924).
  (C) ROAD AND SITE MATERIALS SHALL CONFORM TO U ACCORDANCE WITH UTAH STATE DEPARTMENT OF H SPECIFICATION.
  (D) SOIL STERILIZER SHALL BE EPA REGISTERED OF L
  (E) SOIL STABILIZER FABRIC SHALL BE MIRAFI – 500X

(2) EQUIPMENT
  (A) COMPACTION SHALL BE ACCOMPLISHED BY MECHAN BY SHEEPS FOOT VIBRATOR OR RUBBER TIRED RO AREAS SHALL BE COMPACTED BY POWER-DRIVER,

PART 4 EXECUTION

(1) INSPECTIONS: LOCAL BUILDING INSPECTORS SHALL BE OF CONCRETE POURS. UNLESS OTHERWISE SPECIFIED B

(2) PREPARATION
  (A) CLEAR TREES, BRUSH AND DEBRIS FROM SITE AR
  (B) PRIOR TO OTHER EXCAVATION AND CONSTRUCTION OF SIX (6) INCHES BELOW ORIGINAL GROUND LEV
  (C) UNLESS OTHERWISE INSTRUCTED BY CONSTRUCTIO AND DEBRIS FROM THE PROPERTY TO AN AUTHOR
  (D) PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL
  (E) WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNT STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR

(3) INSTALLATION
  (A) THE SITE SHALL BE AT THE SUB-BASE COURSE FORMING FOUNDATIONS. GRADE OR FILL THE SIT UPON EVEN DISTRIBUTION OF SPOILS RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE C FINISHED GRADES OR SLOPES INDICATED.
  (B) EXCESS SOILS WILL BE CLEARED FROM JOB SITE PROPERLY UNLESS AUTHORIZE BY CONSTRUCTION
  (C) AVOID CREATING DEPRESSIONS WHERE WATER MAY
  (D) THE CONTRACT SHALL BE ASSUMED TO INCLUDE INDICATED, COVERING TWO INCHES OF SURFACE C
  (E) PLACE FILL OR STONE IN SIX INCH MAXIMUM AND
  (F) THE FINISH GRADE, INCLUDING TOP SURFACE COU BEYOND THE SITE FENCE AND SHALL COVER THE
  (G) RIPRAP SHALL BE APPLIED TO THE SIDE SLOPES TO ALL OTHER SLOPES GREATER THAN 2:1.

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BUILDING NAME:

PROPERTY#XXXXX
ADMIN. / ACADEMY BLDG.
DRAPER PRISON
14717 FRONTAGE ROAD
DRAPER, UTAH

PROJECT TITLE:

DRAPER, UTAH
DRAPER PRISON
ADMIN / ACADEMY BLDG.
IMPROVEMENTS

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: DECEMBER XX, 2006

DFCM PROJECT NO: 06139100
CAD PROJECT NO: 06-17
CAD DWG FILE:
DRAWN BY: JRC
CHK'D BY: TGS
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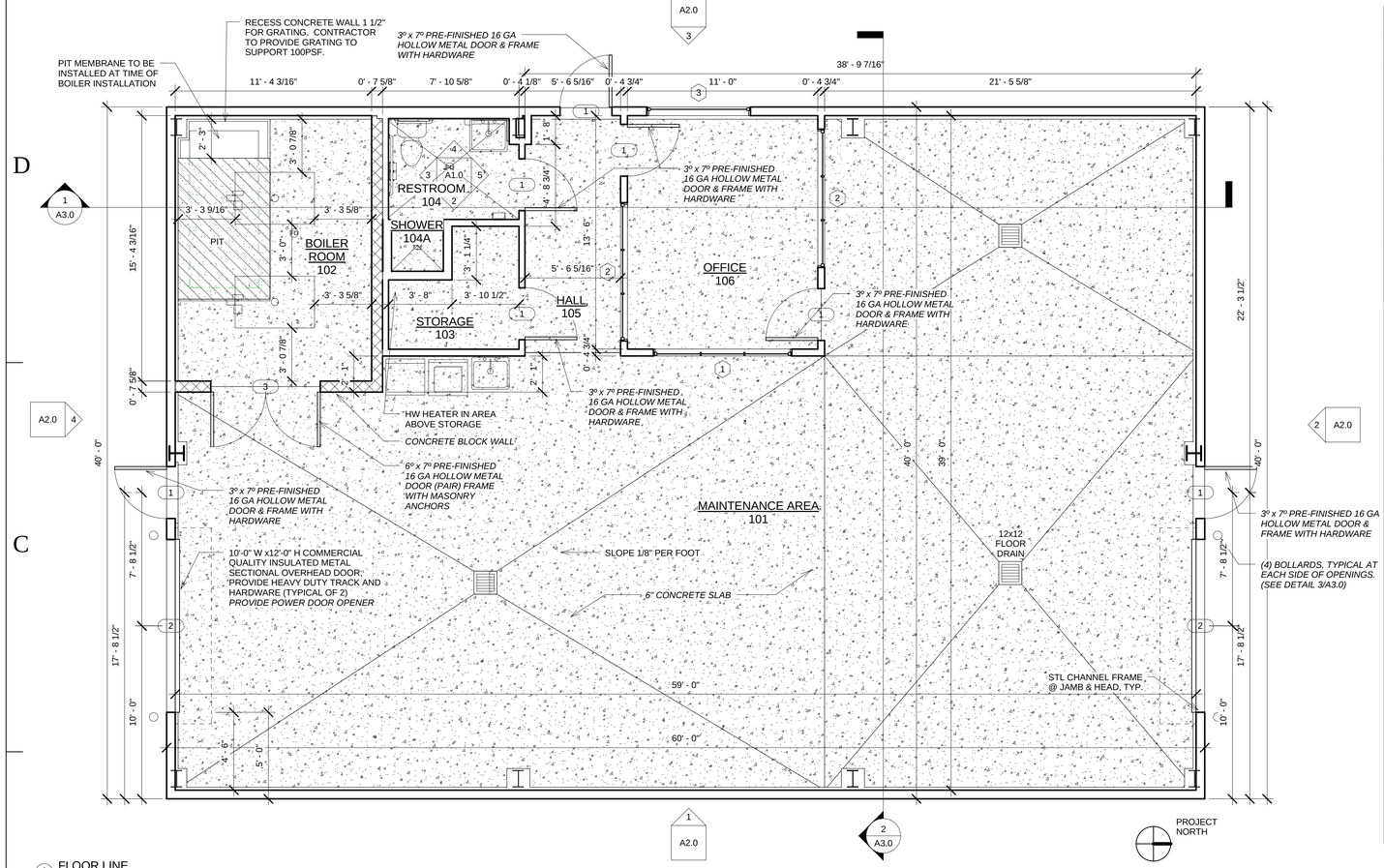
SHEET TITLE

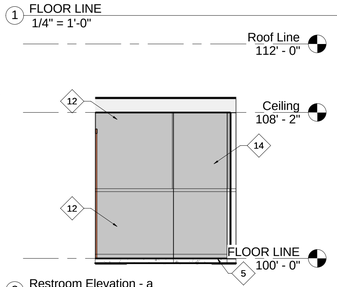
CONSTRUCTION DOCUMENT SUBMITTAL SECTIONS/DETAILS

SHEET NUMBER

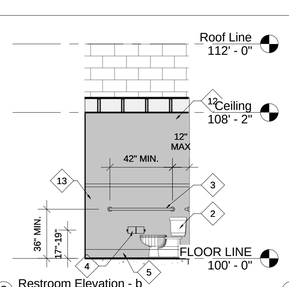
C1.0



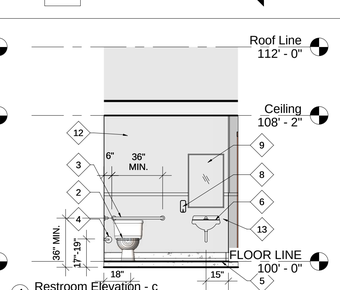
1 FLOOR LINE
1/4" = 1'-0"



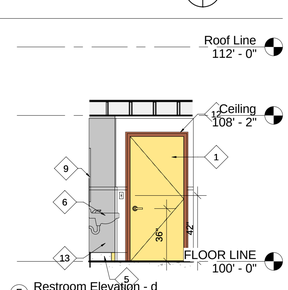
2 Restroom Elevation - a
1/4" = 1'-0"



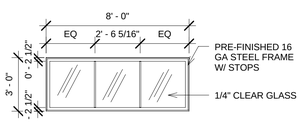
3 Restroom Elevation - b
1/4" = 1'-0"



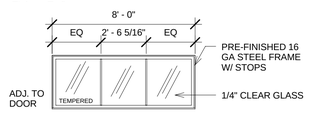
4 Restroom Elevation - c
1/4" = 1'-0"



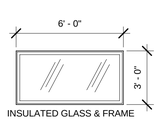
5 Restroom Elevation - d
1/4" = 1'-0"



6 Window 1
1/4" = 1'-0"



7 Window 2
1/4" = 1'-0"



8 Window 3
1/4" = 1'-0"

Window Schedule			
Type Mark	Count	Width	Height
1	1	8' - 0"	3' - 0"
2	2	8' - 0"	3' - 0"
3	1	6' - 0"	3' - 0"

Grand total: 4

RESTROOM GENERAL NOTE:

ALL NEW FIXTURES SHALL BE MOUNTED IN COMPLIANCE W/ A.D.A.A.G.

INTERIOR ELEVATION / RESTROOM KEY NOTES:

1. 3'0x6'8 DOOR
2. ADA COMPLIANT WATER CLOSET
3. GRAB BARS (TYP.)
4. TOILET PAPER DISPENSER
5. 7" COVED SHEET VINYL BASE W/ METAL CAP
6. WALL MOUNTED ADA COMPLIANT LAVATORY W/ PIPE INSULATION (SEE ADA CLEARANCE REQUIREMENTS)
7. PAPER TOWEL DISPENSER
8. SOAP DISPENSER
9. 24"x36" WALL MOUNTED MIRROR (SEE ADA CLEARANCE REQUIREMENTS)
10. FLOOR DRAIN WITH TRAP PRIMER
11. VINYL FLOOR
12. PAINTED GYPSUM BOARD
13. 4'-0" HIGH CERAMIC TILE WAINSCOT
14. FULL HEIGHT CERAMIC TILE AT SHOWER (ALL WALLS INCLUDING CEILING)

Door Schedule			
Mark	Count	Height	Width
1	7	7' - 0"	3' - 0"
2	2	10' - 0"	10' - 0"
3	1	7' - 0"	6' - 4"

Grand total: 10

DOOR HARDWARE (TYPICAL AT EACH NEW EXTERIOR STEEL DOOR):

- STEEL DOORS : LEVEL II, MODEL 1 (STEEL DOOR INSTITUTE BULLETIN SDI 108-99)
- STEEL FRAMES : 16 GAUGE COLD ROLLED FURNITURE STEEL w/ ANCHORS. MIN. 3 PER JAMB
- 3 PAIR STAINLESS STEEL HINGE
- STAINLESS STEEL LEVER STYLE LOCKSET KEY ENTRANCE FUNCTION # 150 BY BEST ACCESS SYSTEMS OR EQUAL
- CYLINDER BY BEST ACCESS SYSTEMS OR EQUAL
- DEAD BOLT
- STAINLESS STEEL ESCHUSION PLATE
- 12"x32"x.05" STAINLESS STEEL KICK PLATE BY SARGENT OR EQUAL
- CLOSER BY SARGENT OR EQUAL
- ALUMINUM THRESHOLD
- WEATHER-STRIPPING & DOOR SWEEP

DOOR HARDWARE (TYPICAL AT EACH NEW INTERIOR STEEL DOOR):

OFFICES:

- STEEL DOORS : LEVEL II, MODEL 1 (STEEL DOOR INSTITUTE BULLETIN SDI 108-99)
- STEEL FRAMES : 16 GAUGE COLD ROLLED FURNITURE STEEL w/ ANCHORS. MIN. 3 PER JAMB
- 3 PAIR STAINLESS STEEL HINGE
- STAINLESS STEEL LEVER STYLE LOCKSET KEY OFFICE FUNCTION # 81 BY BEST ACCESS SYSTEMS OR EQUAL
- CYLINDER BY BEST ACCESS SYSTEMS OR EQUAL
- DEAD BOLT
- STAINLESS STEEL ESCHUSION PLATE
- 12"x32"x.05" STAINLESS STEEL KICK PLATE BY SARGENT OR EQUAL
- CLOSER BY SARGENT OR EQUAL

RESTROOM:

- STEEL DOORS : LEVEL II, MODEL 1 (STEEL DOOR INSTITUTE BULLETIN SDI 108-99)
- STEEL FRAMES : 16 GAUGE COLD ROLLED FURNITURE STEEL w/ ANCHORS. MIN. 3 PER JAMB
- 3 PAIR STAINLESS STEEL HINGE
- STAINLESS STEEL LEVER STYLE LOCKSET KEY PRIVACY FUNCTION # 76 BY BEST ACCESS SYSTEMS OR EQUAL
- CYLINDER BY BEST ACCESS SYSTEMS OR EQUAL
- DEAD BOLT
- STAINLESS STEEL ESCHUSION PLATE
- 12"x32"x.05" STAINLESS STEEL KICK PLATE BY SARGENT OR EQUAL
- CLOSER BY SARGENT OR EQUAL

FINISH SCHEDULE

ROOM NO.	FLOOR	NOTES	BASE	NOTES	WALL N	WALL E	WALL S	WALL W	NOTES	CEILING	NOTES	HEIGHT
101 - MAINTENANCE AREA	F-1	.		.	W-1	W-1	W-1	W-1/W-2/W-3	.	C-2	.	
102 - BOILER ROOM	F-1		B-1		W-5	W-5	W-2	W-2		C-2		
103 - STORAGE	F-1		B-1		W-2	W-2	W-5	W-2		C-3		
104 - RESTROOM	F-3	B	B-2		W-3	W-3	W-3	W-3		C-3		8'-0" ABOVE FINISH FLOOR
104A - SHOWER	F-4	B	B-2		W-4	W-4	W-4	W-4		C-4		8'-0" ABOVE FINISH FLOOR
105 - HALL	F-1		B-1		W-2		W-2	W-2		C-3		8'-0" ABOVE FINISH FLOOR
106 - OFFICE	F-1		B-1		W-2	W-2	W-2	W-2		C-1		8'-0" ABOVE FINISH FLOOR

FLOOR TYPES
F-1 EPOXY COATED FLOORING
F-2 CARPET
F-3 CERAMIC TILE
F-4 CERAMIC TILE WITH SHOWER PAN

BASE TYPES
B-1 RUBBER BASE
B-2 6" COVE CERAMIC TILE BASE

WALL TYPES
W-1 WALL PANELS SYSTEM
W-2 PAINTED GYPSUM BOARD
W-3 4' TILE WAINSCOT WITH EPOXY PAINTED GYPSUM BOARD ABOVE
W-4 FULL-HEIGHT TILE WAINSCOT
W-5 PAINTED CMU

CEILING TYPES
C-1 24x24x3/4 #581 CIRRUS ANGLED TEGULAR ON A PRELUDE XL 15/16" EXPOSED TEE GRID BY ARMSTRONG OR APPROVED EQUAL.
C-2 EXPOSED STRUCTURE
C-3 PAINTED GYPSUM BOARD
C-4 CERAMIC TILE

NOTES:
A. PROVIDE COLOR SAMPLES FOR ALL FINISH ITEMS, INCLUDING BUT NOT LIMITED TO CARPET, RUBER BASE, CEILING TILE, AND PAINT, FOR APPROVAL PRIOR TO INSTALLATION OR APPLICATION
B. RECESS FLOOR FOR PROPER TILE INSTALLATION AND SLOPE FLOOR TO DRAINS

GENERAL FINISH NOTES

1. PROVIDE, STORE AND INSTALL SPECIFIED FINISH MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
2. ALL FINISH MATERIALS AND FINISH ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF THE CODES AND REGULATIONS OF THE GOVERNMENTAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.
3. ALL FINISH MATERIALS SHALL BE NEW, FIRST QUALITY MATERIALS.
4. PREPARE ALL SURFACES SCHEDULED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
5. UNLESS SPECIFICALLY NOTED OTHERWISE THE CONTRACTOR IS TO FURNISH AND INSTALL ALL FINISH MATERIALS INDICATED ON THE DRAWINGS.
6. FLASH PATCH ALL AREAS WHERE FLOOR SURFACES ARE NOT SMOOTH, LEVEL, OR TRUE, PRIOR TO FINISH FLOOR INSTALLATION.
7. ALL FINISH FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS OR CASED OPENINGS, UNLESS NOTED OTHERWISE. PROVIDE A TRANSITION STRIP BETWEEN ALL DISSIMILAR FLOOR COVERING MATERIALS. A MAXIMUM OF 1/2" OFFSET AT THRESHOLD OR ANY CHANGE OF FLOORING MATERIALS IS REQUIRED. OFFSETS GREATER THAN 1/4" REQUIRE A MAXIMUM BEVELED SLOPE OF ONE (1) UNIT VERTICAL TO TWO (2) UNITS HORIZONTAL. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.
8. ALL SEAMS AND JOINTS OF FINISH MATERIALS SHALL BE STRAIGHT, SMOOTH AND CLEAN.
9. GYPSUM BOARD FINISHES: PROVIDE LEVELS OF GYPSUM BOARD FINISH IN ACCORDANCE WITH GYPSUM ASSOCIATION GA214.
   LEVEL 4 - ALL LOCATIONS EXPOSED TO VIEW SCHEDULED FOR A PAINT FINISH EXCEPT AS NOTED OTHERWISE.

FINISH PAINTING NOTES

1. ALL PRIMERS AND FINISH PAINTS SHALL BE SHERWIN-WILLIAMS PRODUCTS AS INDICATED OR EQUAL AS APPROVED BY UNIVERSITY STANDARDS:

   INTERIOR SURFACES:
   PRIMER: PREP-RITE CLASSIC LATEX PRIMER
   FINISH: PROMAR 200

2. EXAMINE SUBSTRATE FOR COMPLIANCE WITH REQUIREMENTS FOR PAINT APPLICATION. REMOVE ALL UNUSED NAILS, HOOKS, BRACKETS, ETC. DO NOT BEGIN PAINT APPLICATION UNTIL SATISFACTORY CONDITIONS HAVE BEEN ACHIEVED AND APPROVED BY ARCHITECT AND/OR UNIVERSITY PROJECT MANAGER. START OF PAINTING WILL BE CONSTRUED AS ACCEPTANCE OF SURFACE CONDITIONS.
3. APPLY PAINT IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTION. USE APPLICATORS BEST SUITED FOR SUBSTRATE AND TYPE OF FINISH.
4. PROVIDE A MIN. OF 1 COAT OF PRIMER AND 2 COATS MIN. OF FINISH PAINT. APPLY ADDITIONAL COATS WHEN NECESSARY TO PREVENT SUBSTRATE CONDITIONS FROM SHOWING THROUGH FINAL COAT UNTIL FINISH COAT IS OF UNIFORM FINISH, COLOR, AND APPEARANCE.

GENERAL NOTES
1. COORDINATE ARCHITECTURAL DRAWINGS ("A" SHEETS) WITH ALL OTHER DISCIPLINE DRAWINGS.
2. NOTES AND DETAILS ARE TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING DOCUMENTS
3. DRAWINGS AND DETAILS ARE MEANT TO BE COMPLIMENTARY TO THE SPECIFICATIONS. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD. IF ARCHITECT/ENGINEER IS NOT AVAILABLE TO PROVIDE DIRECTION, THE CONTRACTOR IS TO PROCEED WITH THE MOST STRINGENT REQUIREMENT AT NO ADDITIONAL COST TO OWNER.
4. ELECTRICAL LAYOUTS ARE SHOWN IN SCHEMATIC. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LAYOUT AND INSTALLATION OF ALL ITEMS AND RELATED TRADES. ALL WORK TO COMPLY WITH CURRENT N.E.C. CODES AND 2003 INTERNATIONAL BUILDING CODES.
   a COORDINATE WITH OWNER, ARCHITECT AND / OR PLANS FOR FIXTURE SCHEDULES, STYLES, FINISHES, ETC.
   b. CENTER OF ALL OUTLETS TO BE 36" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
   c. CENTER OF ALL SWITCHES TO BE 42" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
   d. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL ELECTRICAL FIXTURES, SWITCHES, ETC. WITH OWNER AND ARCHITECT PRIOR TO WIRING.
   e. INSTALL ALL CONDUCTOR IN 1/2" RIGID CONDUIT. NO EXPOSED WIRING ALLOWED. CONDUCTORS SHALL BE COPPER WITH CODE APPROVED INSULATION SUITABLE FOR INTENDED APPLICATION. MIN. SIZE CONDUCTORS SHALL BE #12 AGW.
   f. PROVIDE CONCRETE-ENCASED ELECTRODE - GROUNDING: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES (51 MM) OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE CONSISTING OF AT LEAST 20 FEET (6096 MM) OF ONE OR MORE BARE OR ZINC-GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER, OR CONSISTING OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4 SHALL BE CONSIDERED AS A GROUNDING ELECTRODE. REINFORCING BARS SHALL BE PERMITTED TO BE BONDED TOGETHER BY THE USUAL TIE WIRES OR OTHER EFFECTIVE MEANS.

DOOR HARDWARE (INTERIOR STEEL DOOR CONTINUED):

STORAGE:

- STEEL DOORS : LEVEL II, MODEL 1 (STEEL DOOR INSTITUTE BULLETIN SDI 108-99)
- STEEL FRAMES : 16 GAUGE COLD ROLLED FURNITURE STEEL w/ ANCHORS. MIN. 3 PER JAMB
- 3 PAIR STAINLESS STEEL HINGE
- STAINLESS STEEL LEVER STYLE LOCKSET KEY STORAGE FUNCTION # 86 BY BEST ACCESS SYSTEMS OR EQUAL
- CYLINDER BY BEST ACCESS SYSTEMS OR EQUAL
- DEAD BOLT
- STAINLESS STEEL ESCHUSION PLATE
- 12"x32"x.05" STAINLESS STEEL KICK PLATE BY SARGENT OR EQUAL

DOOR HARDWARE (INTERIOR STEEL DOOR CONTINUED):

BOILER:

- STEEL DOORS : LEVEL II, MODEL 1 (STEEL DOOR INSTITUTE BULLETIN SDI 108-99)
- STEEL FRAMES : 16 GAUGE COLD ROLLED FURNITURE STEEL w/ ANCHORS. MIN. 3 PER JAMB
- 3 PAIR STAINLESS STEEL HINGE
- STAINLESS STEEL LEVER STYLE LOCKSET KEY ENTRANCE FUNCTION # 150 BY BEST ACCESS SYSTEMS OR EQUAL
- CYLINDER BY BEST ACCESS SYSTEMS OR EQUAL
- DEAD BOLT
- STAINLESS STEEL ESCHUSION PLATE
- 12"x32"x.05" STAINLESS STEEL KICK PLATE BY SARGENT OR EQUAL
- CLOSER BY SARGENT OR EQUAL
- ALUMINUM THRESHOLD
- DOOR SWEEP
- ACOUSTIC SEAL
- FLUSH BOLTS

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SMITH HYATT ARCHITECTS
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BUILDING NAME:

PROJECT # 06139100
DRAPER PRISON ADMIN./ ACADEMY BLDG. IMPROVEMENTS

14717 FRONTAGE ROAD
DRAPER, UTAH

PROJECT TITLE:

DRAPER PRISON ADMIN./ ACADEMY BLDG. IMPROVEMENTS

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: 7 MARCH 2007

DFCM PROJECT NO: 06139100
CAD PROJECT NO: 06-17
CAD DWG FILE:
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FLOOR PLAN

SHEET NUMBER

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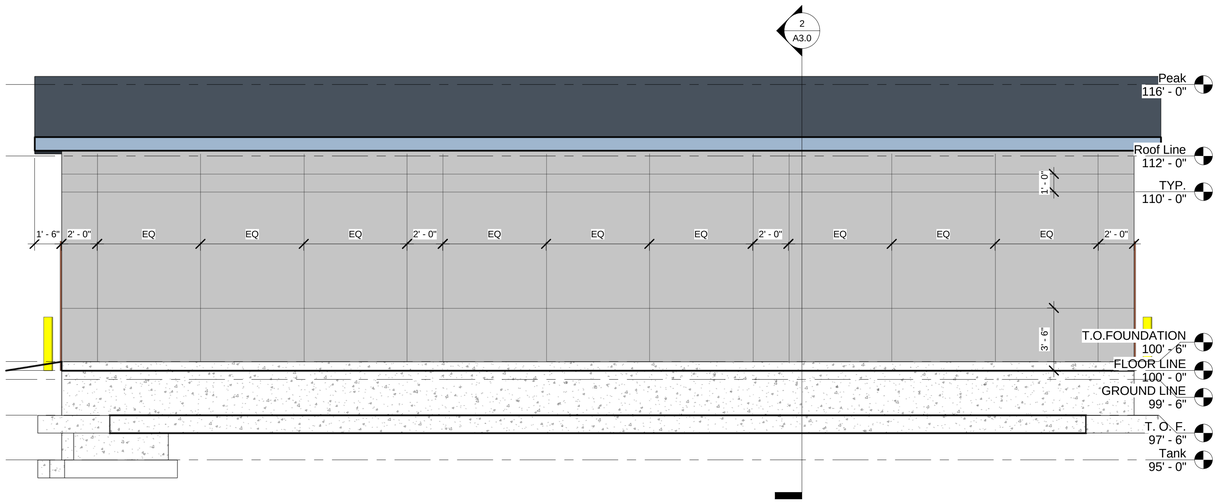
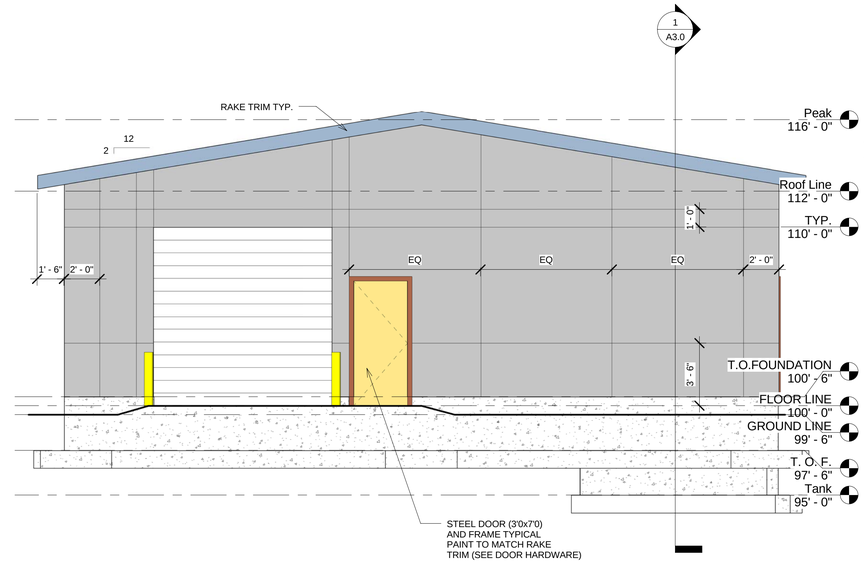
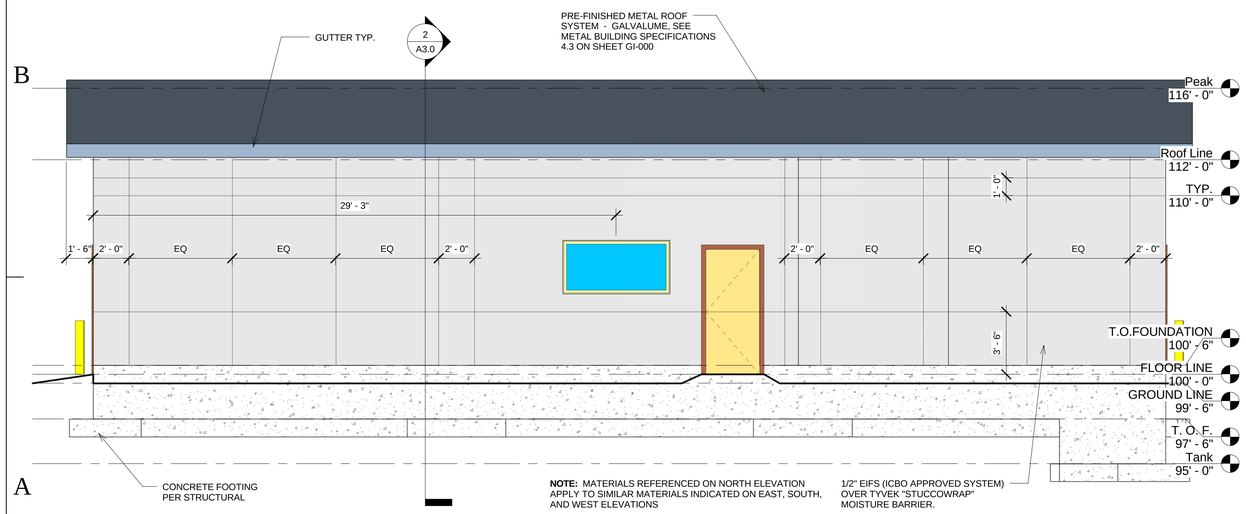


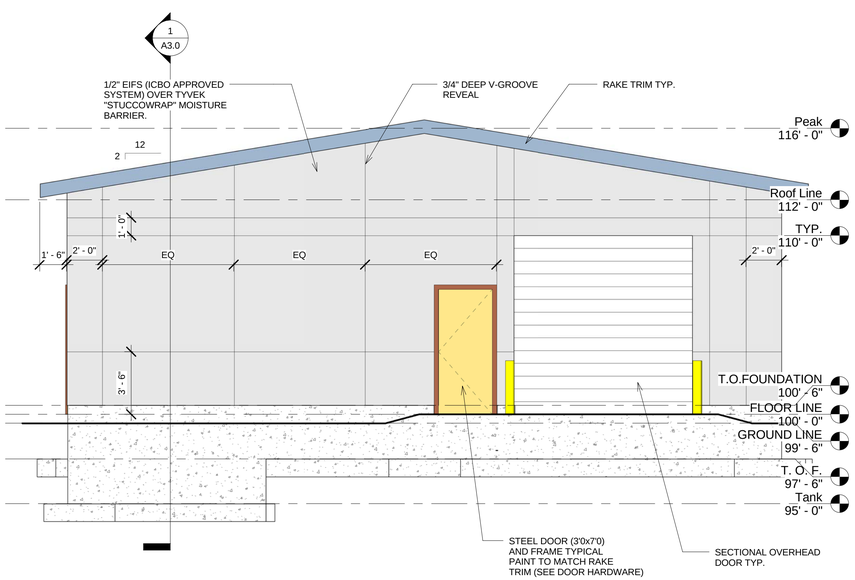
1 East Elevation
1/4" = 1'-0"



2 North Elevation
1/4" = 1'-0"



3 West Elevation
1/4" = 1'-0"



4 South Elevation
1/4" = 1'-0"

State of Utah
Department of Administrative Services

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SHEET TITLE

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SHEET NUMBER

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SHEET 5 OF 9

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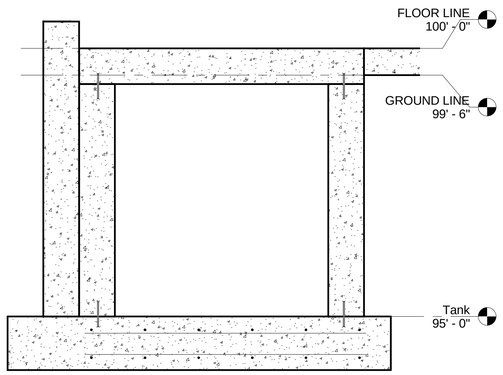
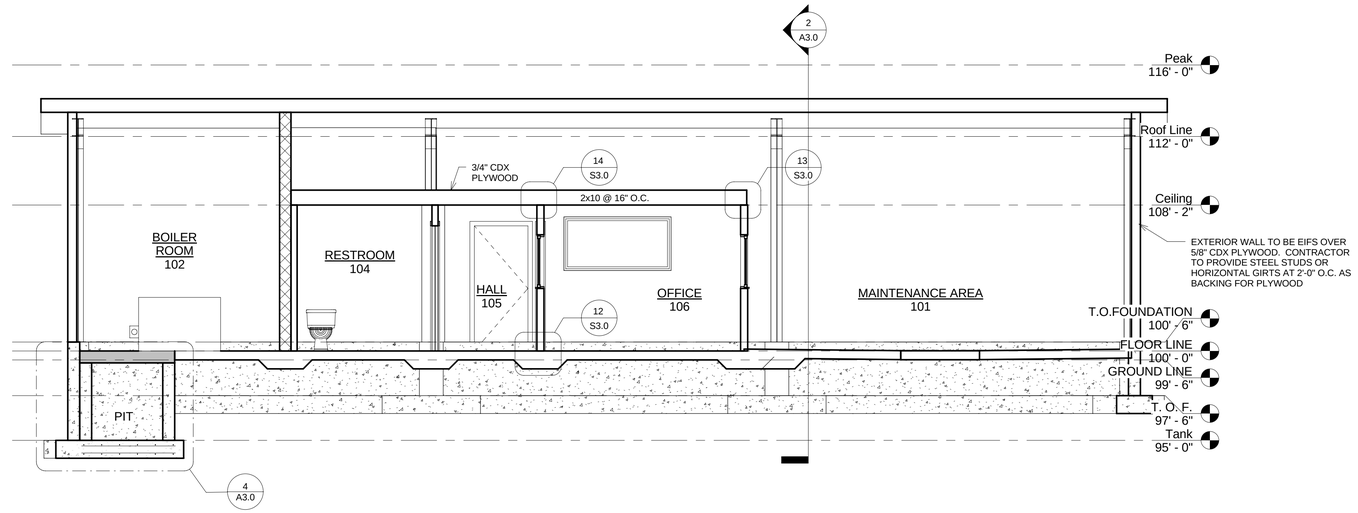
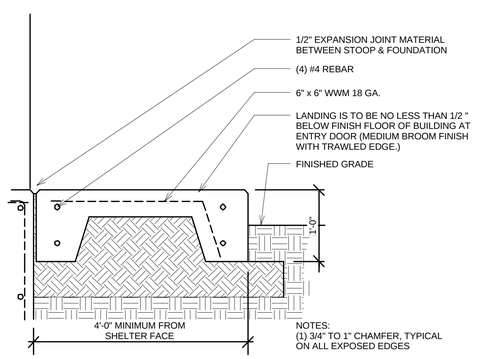


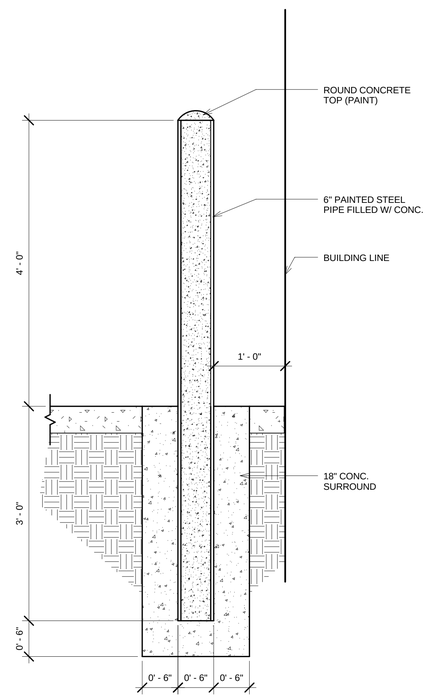
4 Tank Section
3/4" = 1'-0"



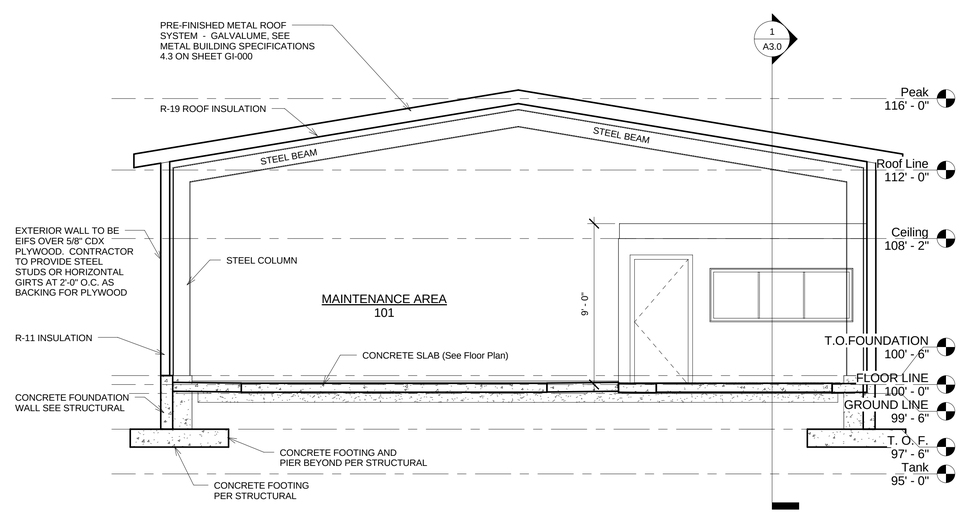
1 Section 1
1/4" = 1'-0"



5 LANDING SECTION
3/4" = 1'-0"



3 BOLARD
1" = 1'-0"



2 Section 2
1/4" = 1'-0"

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SECTIONS

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SHEET 6 OF 9

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BASIS OF DESIGN

1. BUILDING CODE ..... 2006 IBC
2. BUILDING CLASSIFICATION CATEGORY II
3. GRAVITY DESIGN:
   See building manufacturer (foundation loads to be provided by building manufacturer & plans revised)
4. WIND DESIGN:
   See building manufacturer
5. SEISMIC DESIGN:
   See building manufacturer
6. SOILS:
   Soil bearing pressure. ..... 1500 psf (ASSUMED)
7. ABBREVIATIONS:
   EOR = Engineer of record. See professional stamp this page.
   UNO = Unless noted otherwise
   (E) = Existing condition
   (N) = New construction

GENERAL

1. THE GENERAL CONTRACTOR SHALL:
   A. Be familiar with the contract documents and insure that subcontractors are familiar with their portion of the work. Submit a written request to the EOR for approval before proceeding with any changes.
   B. Verifies site conditions and dimensions at the site. If they differ from the contract documents, notify the EOR prior to fabrication/construction of affected elements. Affected details may require redesign.
   C. Report to the EOR modifications made to the structure.
   D. Be responsible for safety and protection on and around the job site and adjacent properties.

2. THE GENERAL CONTRACTOR SHALL COORDINATE:
   A. And verify locations, weights and sizes of mechanical units, equipment, etc. prior to the fabrication and erecting of structural supporting elements. Report sizes and locations that differ from those shown on the drawings to the EOR for review. Additional framing maybe required.
   B. Wall openings required for mechanical, etc. which are not shown on the structural drawings with the EOR.
   C. Any structural situation not covered by the drawings with the EOR.
   D. Doors, windows, walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, pads, landscape walls, trenches in slabs, etc. with the structural work.
   E. Inspections, testing, and structural observations as work proceeds. Notify the EOR 48 hours prior to any required structural observations.

3. CONTRACT DOCUMENTS & DRAWINGS:
   A. These structural notes complement the specifications and the drawings.
   B. Specific details, sections and notes shown on the drawings govern over these general notes and typical details.
   C. Contract documents take precedence over shop drawings, UNO.
   D. Apply typical or similar details, sections and notes to similar situations on the drawings where specific details are not referenced.
   E. Drawings and details have been prepared to visually represent information provided in scaled form. However, DO NOT scale plans or details for dimensional information.
   F. Refer to architectural drawings for dimensions.

4. BUILDING CODE COMPLIANCE: Construction, inspection, materials, testing, and workmanship shall conform to the requirements of the governing building code.

5. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS: The general contractor is responsible for the method, means, and sequence of structural erection, UNO. He shall provide adequate temporary shoring or bracing for all structural elements until the entire structural system is completed. Design of shoring and bracing is by others at no additional cost to the owner.

6. OMISSIONS, CONFLICTS & DISCREPANCIES:
   A. Bring omissions, conflicts or discrepancies between the elements of the contract documents to the attention of the EOR before proceeding with work involved.
   B. In case of conflicts or discrepancies, follow the most stringent requirements as directed by the EOR.

7. MISCELLANEOUS:
   A. During and after construction, builder and/owner shall keep loads on the structure within the limits of this design. See Basis of Design.
   B. Site observations by ES2's field representative shall neither be construed as inspection nor approval of construction.

8. SUBMITTALS:
   A. Make submittals in a timely manner. ES2's review is for general compliance only and is not intended as approval. Contractor is responsible for verifying sizes, dimensions and elevations on submittals as related to the contract documents.
   B. Submit the following items for review prior to proceeding with the work:

   Concrete material Certifications & mix designs.
   Shop Drawings: Reinforcing steel
   Special loads on the foundation.

   C. Allow two weeks for the review of submittals by the EOR.
   D. Have EOR approved shop drawings & materials on site before construction of those components begin.
   E. Substitutions are not allowed unless approved by the EOR. Submit requests for structural substitutions to the EOR.

CONCRETE

1. CODES AND STANDARDS. Comply with the following Codes:
   A. ACI 301, "Specifications for Structural Concrete for Buildings".
   B. ACI 318, "Building Code Requirements for Reinforced Concrete".
   C. ACI 347, "Recommended Practice for Concrete Form Work".

2. MATERIALS shall conform to the following:
   A. Cement; ASTM C150, Type I, Portland Cement.
   B. Hard rock aggregates: ASTM C33
      Lightweight aggregates: ASTM C330
   C. Water shall be potable.
   D. Air entrainment: ASTM C260
   E. Fly ash: ASTM C618
   F. Calcium chloride SHALL NOT be used.

3. MIX DESIGNS:
   A. Place only one type of concrete at any given time.
   B. The maximum slump shall be 4" w/o plasticizer added.
   C. Use pea gravel and/or plasticizer in congested areas.
   D. Limit fly ash to 20% of the total cement.
   E. Concrete mixes shall conform to the following:

TYPE OF CONCRETE MEMBER	28 DAY STRENGTH (psi)	MAX. W/C (ratio)	MAX. DRY WEIGHT (pcf)	MAX. AGGREGATE SIZE (inches)	AIR (%)
Footings:	3000	0.50	150	3/4	3 ±1
Foundation walls and grade beams:	3000	0.50	150	3/4	3 ±1
Slabs on grade:					
Interior	4000	0.45	150	1.5*	0 to 2
Exterior	4000	0.47	150	1.5*	6 ±1

*Well-graded Aggregates required (1.5"=> course >3/8", medium, and fines <#8) Follow ACI 302 for sand gradation.

4. CONSTRUCTION:
   A. Mechanically vibrate concrete during placement.
   B. Prior to placing concrete, check with trades to insure proper placement of openings, block outs, sleeves, curbs, conduits, bolts, inserts, embeds, dowels, etc. Place anchor bolts and dowels prior to casting concrete, UNO.
   C. Form construction joints and bulkheads with a key way. Intentionally roughen contact surfaces (new or existing) at construction joints prior to casting adjacent pours, UNO.
   D. Add additional reinforcing too sides of floor and wall opening, equivalent to the bars cut by the opening with half to each side of the opening or (2) #5 bars, whichever is greater, UNO. Bars parallel to the principal reinforcing shall run full length of the span. End bars in the other direction with a standard hook. Add (2) #5 x 5'-0" diagonal bars at every corner.
   E. DO NOT allow penetrations through any beam, joist, column, pier, footing, or jamb without the EOR's approval. Otherwise, re-rout the penetration.

5. FOOTINGS:
   A. Bear footings on properly prepared materials.
   B. Center footings on the wall or column above, UNO.
   C. Bear exterior footings below the effects of frost. See Basis of Design.
   D. Provide 2x4 beveled key in continuous wall footings.
   E. Stagger footing construction joints from wall construction joints above by at least 6 feet.
   F. Provide corner bars in continuous footings at corners and intersections.
   G. Add (2) #6 or (3) #5 lengthwise top bars in addition to footing schedule reinforcement at continuous footings without concrete foundation walls directly above (door openings, etc.).
   H. DO NOT allow penetrations through any concrete footing. At utilities, step the footing down below the conflict and add a concrete wall, pier or column that extends to the footing. Consult with the EOR.
   I. Backfill bearing surfaces that are undermined during construction with a lean concrete mix (1000 psi min.).

6. SLABS ON GRADE (SOG):
   A. Minimum Interior slabs on grade requirements:
      8 inches thickness.
      4 inch layer of free-draining gravel base.
      #5 bars at 18" o.c. both ways, UNO. Chair rebar for proper placement.
   B. Place large areas of interior slabs-on-grade in strips not to exceed 120 feet in length nor 30 feet in width. Subdivide by construction or contraction (control) joints into roughly squares whose sides DO NOT exceed 15 feet in either direction.
   C. See Architectural for exterior slabs on grade, UNO.

7. WALLS:
   A. Place vertical reinforcing in the center of walls (UNO) unless each face (E.F.) is specified. When each face is specified, splice the horizontal reinforcing of each curtain at different locations.
   B. Dowel vertical reinforcing to the structure below and above with the same bar size and spacing, UNO.
   C. Terminate horizontal reinforcing at the ends of walls or openings with a standard hook or corner type bars. Provide corner bars of the size and spacing as the horizontal reinforcing at intersections and corners.
   D. Build penetrations into the wall before pouring concrete. Have the penetrations reviewed by the EOR prior to installation unless detailed on the plans.
   E. Provide drains at the base of retaining and basement walls.
   F. Concrete walls not specially noted on the plans shall be reinforced as follows:

WALL THICKNESS (Grade 60)	VERTICAL REINFORCING (Gf 0.0012)	HORIZONTAL REINFORCING (Gf 0.0020)	TOP & BOT. REINFORCING HORZ.
8"	#4 @ 18" o.c.	#4 @ 12" o.c.	(2) #5

See plans, schedules, and details for other reinforcing.

FOUNDATIONS

1. NO SOILS REPORT:
   A. The contractor shall retain a soils engineer to observe the excavations and verify that the assumed soil bearing pressures and parameters can be obtained. (See Basis of Design)
   B. Take corrective measures to obtain the assumed soil parameters or submit findings to the EOR for a re-design.

SPECIAL INSPECTION AND TESTING

1. INSPECTIONS: Provide special inspection by an independent agency in accordance with IBC Chapter 17 and as outlined below:

   Anchor bolts and concrete.
   Concrete: during pours, rebar placement, and taking of test specimens. Inspectors shall be ACI-II or ICC certified.
   Reinforcing steel: in concrete.
   Soils: bearing materials and placement of structural fill.

2. TESTING: The owner will provide testing by qualified testing personnel for the following types of construction:

   Concrete: strength, slump, air, and temperature.
   Soils: compaction.

3. THE CONTRACTOR SHALL:
   A. Coordinate testing. DO NOT proceed with subsequent work until inspections and testing has been approved.
   B. Copy inspection reports/testing results to the EOR and owner before work proceeds.
   C. Correct deficient work at no additional cost to the owner.

REINFORCING STEEL

1. CODES AND STANDARDS. Comply with:
   a. CRSI "Manual of Standard Practice".
   b. ACI "Detailing Manual", ACI 315 (or SP-66).

2. MATERIALS:
   A. New stock deformed rebar: ASTM A615, Grade 60, except as noted.
      a. Field bent dowels: ASTM A615, Grade 40 or ASTM A706, Grade 60, Low-Alloy Steel. Reduce spacing of grade 40 dowels by 1/3.

3. CONSTRUCTION:
   A. Detail, bolster, and support all rebar. Tie bars securely with proper clearances before casting concrete.
   B. Use rebar free of loose flaky rust, scale, grease, oil, dirt, and other materials, which affect or impair bond.
   C. Place rebar continuous in walls, beams, columns, slabs, footings, etc.
   D. Minimum lap splices (Inches): (Minimum lap 24")

	#3	#4	#5	#6	#7	#8	#9	#10	#11
Concrete:	24"	24"	24"	33"	53"	66"	80"	96"	113"

   E. Make cold bends. DO NOT use heat. Bends in the fabricator's shop, UNO. DO NOT unbend or rebend a previously bent bar.
   F. Minimum concrete cover: (securely position and anchor rebar prior to pour)

      Cast against and permanently exposed to earth .. 3"
      Exposed to earth or weather:
         #6 and larger ..... 2"
         #5 and smaller ..... 1-1/2"
      NOT exposed to earth or weather:
         Slabs, walls and joist, #11 & smaller ..... 3/4"
         Beams, columns: Main reinforcing or ties .... 1-1/2"
         Slabs-On-Grade (SOG) ..... Center of slab, UNO

   G. DO NOT weld reinforcing unless specifically noted. Use E-90XX electrodes and ASTM A706 reinforcing. Comply with AWS requirements.

REGISTERED PROFESSIONAL ENGINEER No.189660 CLIFF R. COLE STATE OF UTAH

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442 North Main Street, Suite 200
Bountiful, Utah 84010
e-mail: cliff.cole@wcaeng.com
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Department of Administrative Services
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GENERAL NOTES

SHEET NUMBER

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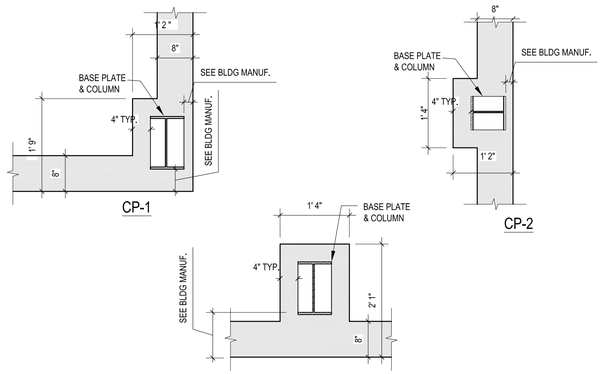
CONCRETE PIER SCHEDULE

MARK	SIZE	VERT. REINF.	TIES	NOTES
CP-1	14" x 21"	(6) #5	(3) #3 CLOSED TIES @ 2"o.c. TOP, AND 6"o.c. REMAINDER	
CP-2	16" x 25"	(8) #5	(3) #3 CLOSED TIES @ 2"o.c. TOP, AND 6"o.c. REMAINDER	

1. PROVIDE MINIMUM COVER FOR ALL REINF. PER GENERAL NOTES.
2. ALL VERTICAL BARS SHALL TERMINATE IN A STANDARD 90 DEGREE HOOK UNLESS APPROVED OTHERWISE BY THE STRUCTURAL ENGINEER.
3. ALL VERTICAL REINF. SHALL SPLICE AT FLOOR LEVELS ONLY, TYPICAL, U.N.O.
4. WHEN USED, THE MAXIMUM OFFSET FOR INCLINED BARS SHALL BE 3". THE MAXIMUM SLOPE FOR INCLINED BARS SHALL BE 1:6.
5. PROVIDE DOWELS WITH STANDARD HOOKS TO THE STRUCTURE BELOW TO MATCH THE VERTICAL REINF. IN THE PIER ABOVE, TYPICAL, U.N.O.
6. PROVIDE A MINIMUM OF TWO SETS OF TIES IN THE TOP FIVE INCHES OF EVERY PIER, TYPICAL, U.N.O.
7. PROVIDE TIE SETS AT ONE-HALF THE SPACING SHOWN IN THE SCHEDULE FOR A MINIMUM OF 1/6 THE CLEAR SPAN, THE MAXIMUM CROSS SECTIONAL DIMENSION OF THE PIER, OR 18 INCHES, TOP AND BOTTOM, TYPICAL, U.N.O.
8. ALL COLD JOINTS SHALL OCCUR AAT FLOOR LEVELS ONLY, TYPICAL, U.N.O.
9. PROVIDE CHAMFERS AT ALL CORNERS OF ALL PIERS, TYPICAL, U.N.O.
10. PENETRATIONS THROUGH CONCRETE PIERS IS NOT ALLOWED.
11. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

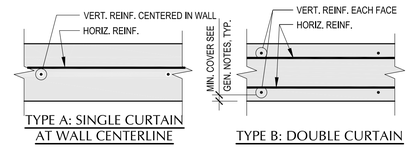
PIER DIMENSIONS ARE SUBJECT TO CHANGE. SIZE TO BE COORDINATED WITH METAL BUILDING SUPPLIER.



CONCRETE WALL SCHEDULE

MARK	THICKNESS	VERTICAL REINF.	HORIZONTAL REINF.	NOTES
CW-1	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	(2) #5 TOP & BOTTOM, TYPE 'A'

1. ALL WALLS ARE MARK CW-1, U.N.O..
2. CONTRACTOR TO VERIFY ALL WALL THICKNESSES W/ ARCHITECT.
3. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTING WALLS, SEE DETAIL 2/S3.0
4. WHEN A SINGLE CURTAIN OF REINFORCING IS SPECIFIED, PLACE THE VERTICAL REINFORCING IN THE CENTER OF THE WALL, TYPICAL, U.N.O..
5. WHEN A DOUBLE CURTAIN OF REINFORCING IS SPECIFIED, PLACE EACH CURTAIN OF STEEL AT THE FACE OF THE WALL WITH MINIMUM COVER AS SPECIFIED IN THE GENERAL NOTES. PLACE THE VERTICAL REINFORCING CLOSEST TO THE FORMS, TYPICAL, U.N.O..
6. PROVIDE DOWELS WITH STANDARD HOOKS TO THE STRUCTURE BELOW WITH SIZE AND SPACING TO ATTACH THE VERTICAL REINFORCING IN THE WALL ABOVE.
7. SPLICE VERTICAL REINFORCING AT FLOOR LEVELS ONLY, TYPICAL, U.N.O..
8. SPLICES IN HORIZONTAL REINFORCING IN ONE CURTAIN SHALL BE STAGGERED FROM SPLICES IN THE OPPOSITE CURTAIN A MINIMUM OF FOUR FEET.

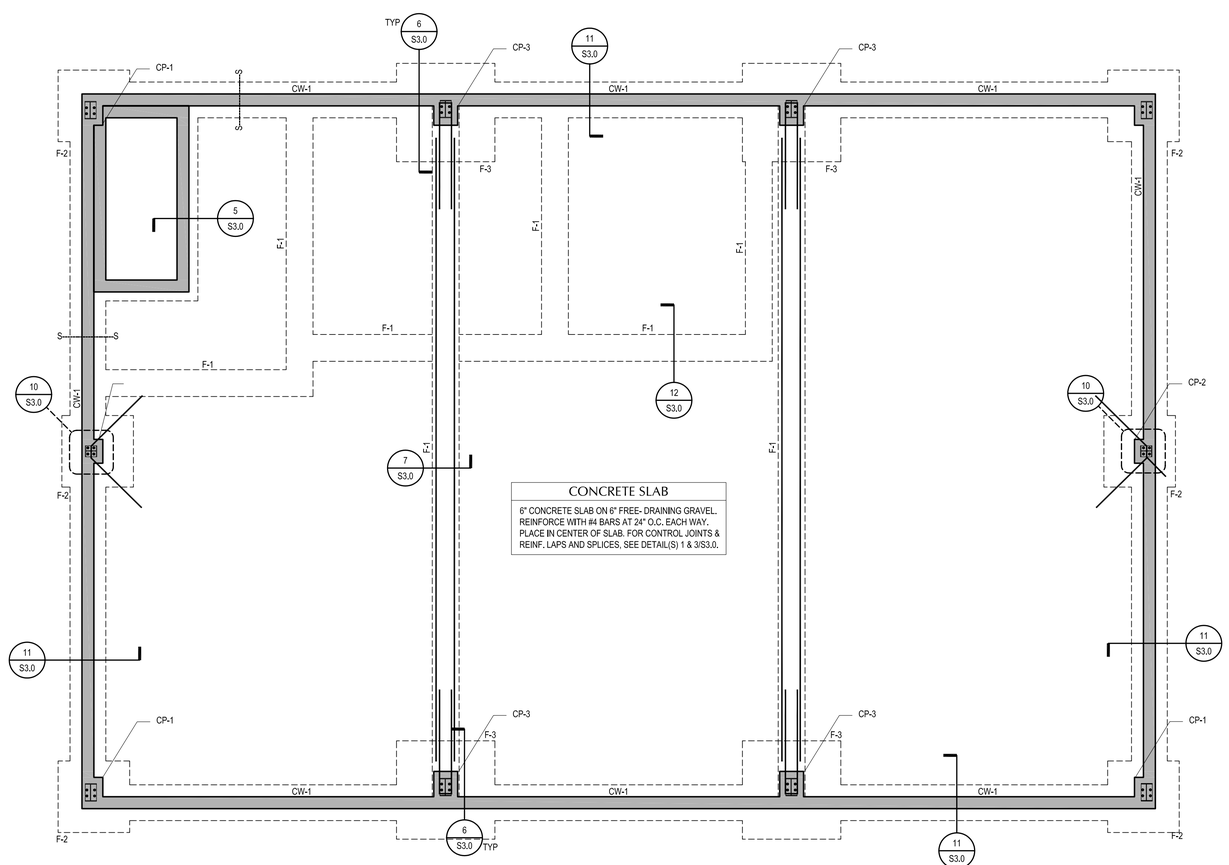


FOOTING SCHEDULE

MARK	SIZE			BOTTOM REINFORCING	TOP REINFORCING	NOTES
	WIDTH	LENGTH	THICK			
F-1	1'-6"	CONT.	12"	(2) #6 CONTINUOUS	NONE	
F-2	4'-0"	4'-0"	12"	(4) #5 E.W.	NONE	
F-3	5'-6"	5'-6"	12"	(5) #5 E.W.	(5) #4 E.W.	

C.W. = CROSSWISE E.W. = EACH WAY L.W. = LENGTHWISE

1. ALL FOOTINGS ARE MARK F-1, U.N.O..
2. BEAR FOOTINGS ON PROPERLY PREPARED MATERIAL.
3. BEAR EXTERIOR FOOTINGS BELOW THE EFFECTS OF FROST.
4. CENTER FOOTINGS BELOW THE WALL AND/OR COLUMN ABOVE, TYPICAL UNO.
5. PROVIDE 2x4 BEVELED KEYWAYS IN CONTINUOUS WALL FOOTINGS. UNO
6. PROVIDE 3" CLEAR CONCRETE COVER AT BOTTOM REINF., UNO.
7. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTINGS TO ANY REINFORCED ELEMENT ABOVE. DOWEL SIZE TO MATCH VERTICAL REINFORCING IN ELEMENT ABOVE. UNO
8. ANY INCREASE IN THE SIZE OF FOOTINGS FOR CONSTRUCTION CONVENIENCE, MAY REQUIRE ADDITIONAL REINFORCING. COORDINATE WITH THE EOR
9. S - - - - - S, DENOTES AN ELEVATION STEP IN FOOTING, SEE DETAIL 4/S3.0
10. ALL FOOTINGS TO BEAR ON ENGINEERED FILL. SEE SOILS REPORT.



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BUILDING NAME:

PROJECT # 06139100
DRAPER PRISON
ADMIN./ ACADEMY
BLDG. IMPROVEMENTS

PROJECT TITLE:

DRAPER PRISON
ADMIN./ ACADEMY
BLDG. IMPROVEMENTS

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: 7 MARCH 2007

DFCM PROJECT NO: 06139100
CAD PROJECT NO: 06-17
CAD DWG FILE:
DRAWN BY: NT
CHK'D BY: CC
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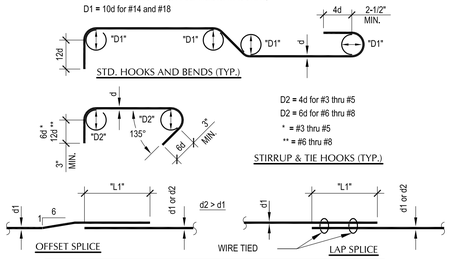
SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

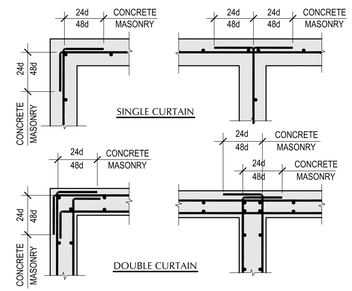
S2.0

D1 = 6d for #3 thru #8
D1 = 8d for #9 thru #11 (#11 bar Max. for MASONRY)
D1 = 10d for #14 and #18

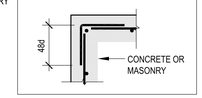


MARK	WALL TYPE	LAP LENGTH	MIN. LAP LENGTH
L1	CONCRETE	30d2 for 40 GRADE	2'-0"
L1	CONCRETE	40d2 for 60 GRADE	2'-0"
L1	MASONRY	48d2	2'-0"

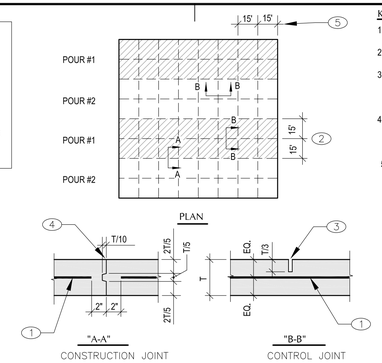
1 S3.0 TYPICAL HOOKS & BENDS
NO SCALE



NOTE:
HOOKED ENDS MAY BE REPLACED WITH CORNER BARS



2 S3.0 CONCRETE OR MASONRY WALL CORNER REINF.
NO SCALE



KEYNOTES:
1. SLAB REINFORCING
2. MAX. WIDTH OF POUR = 30'-0"
3. 1/8" FIBERBOARD STRIP, ZIP STRIP, OR SAW CUT, AT EXPOSED SLOT WITH SLAB, USE 1/4" JOINT SEALER.
4. FOR SLABS LEFT EXPOSED, PROVIDE 1/4" WIDE SLOT FILLED WITH JOINT SEALER.
5. MAX. LENGTH OF POUR WITHOUT CONTROL JOINT = 10'-0" COORDINATE JOINT LOCATIONS WITH OWNER REQUIREMENTS

3 S3.0 SLAB ON GRADE JOINT
NO SCALE

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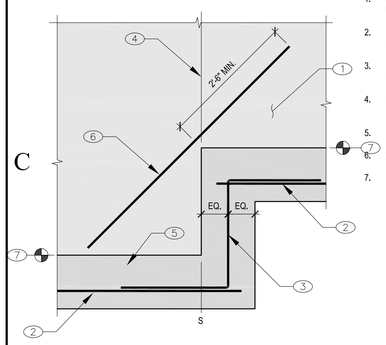
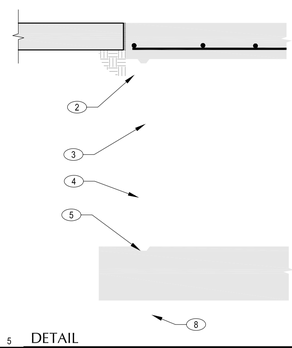
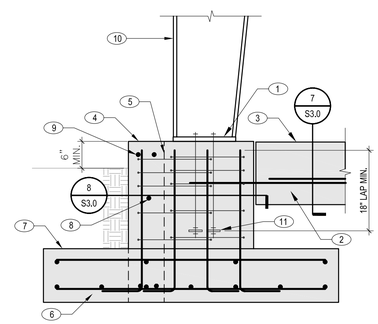


KEYNOTES:
1. CONCRETE FOUNDATION WALL, SEE PLAN
2. FOOTING REINF. SEE PLAN AND SCHEDULE
3. "Z" SHAPED BARS TO MATCH SIZE AND SPA. OF FOOTING REINF.
4. STEP IN FOOTING, SEE PLAN FOR LOCATION
5. FOOTING, SEE PLAN AND SCHEDULE
6. (2) #6 DIAGONAL BARS
7. TOP OF FOOTING, SEE PLAN.

4 S3.0 TYP. FOOTING STEP
NO SCALE

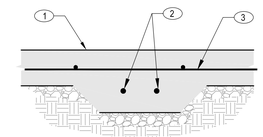


5 S3.0 DETAIL
NO SCALE



KEYNOTES:
1. BASE PLATE
2. #6 HAIRPIN AROUND ANCHOR BOLTS
3. CONCRETE SLAB ON GRADE, SEE PLAN
4. CONCRETE PIER, SEE SCHEDULE.
5. FOUNDATION WALL BEYOND, SEE PLAN
6. CONT. FOOTING BEYOND, SEE PLAN
7. FOOTING AT CONCRETE PIERS, SEE PLAN
8. FOUNDATION WALL STEEL RUNS THRU PIERS
9. (2) #4 TOP AND BOTTOM
10. STEEL FRAME
11. ANCHOR BOLTS W/ 3"x3"x3/8" PLATE WASHER W/ NUTS TIGHT AGAINST PLATE

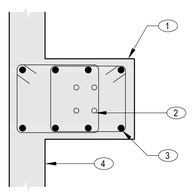
6 S3.0 CONCRETE PIER REINFORCEMENT
NO SCALE



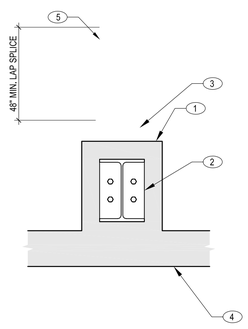
1. CONCRETE SLAB ON GRADE
2. (2) #6 CONT. BETWEEN BENTS
3. SLAB REINFORCING

7 S3.0 THICKENED SLAB DETAIL
NO SCALE

KEYNOTES:
1. CONCRETE PIER, SEE DETAIL 6/S3.0
2. ANCHOR BOLTS, PER BLDG. MANUF.
3. PIER REINF., SEE DETAIL 6/S3.0
4. CONC. WALL, SEE PLAN

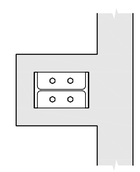


8 S3.0 SECTION AT PIER
NO SCALE



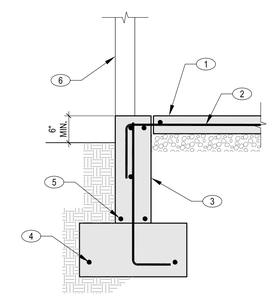
KEYNOTES:
1. CONCRETE PIER, SEE DETAIL 6/S3.0
2. BASE PLATE
3. #6 HAIRPIN AROUND ANCHOR BOLTS
4. CONC. WALL, SEE PLAN
5. (2) #6 CONT. BETWEEN BENTS, CENTERED IN SLAB ON GRADE

9 S3.0 DETAIL
NO SCALE



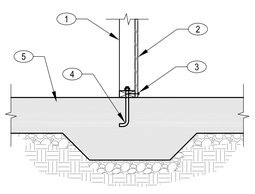
KEYNOTES:
1. CONCRETE PIER, SEE DETAIL 6/S3.0
2. BASE PLATE
#6 HAIRPIN AROUND ANCHOR BOLTS

10 S3.0 DETAIL
NO SCALE



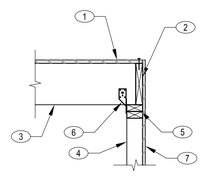
KEYNOTES:
1. CONCRETE SLAB ON GRAD
2. #4 DOWEL @ 24"o.c.
3. 8" CONCRETE WALL LESS T SEE PLAN. REINFORCE PE @ CENTERLINE OF WALL.
4. FOOTING. SEE PLAN
5. (2) #5 TOP AND BOTTOM
6. METAL BUILDING CURTAIN

11 S3.0 DETAIL
NO SCALE



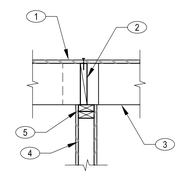
KEYNOTES:
1. 2x4 @ 16" O.C.
2. 7/16" PLYWOOD W/ 8d NAILS @ 6" O.C. PANEL EDGES & 12" O.C. PANEL FIELD, BLOCKED
3. EDGE NAILING
4. 5/8"Ø A-BOLTS @ 32" O.C.
5. CONCRETE SLAB, SEE PLAN

8 S3.0 SECTION AT PIER
NO SCALE



KEYNOTES:
1. 3/4" T&G FLOORING W/ 10d NAILS @ 6" O.C. PANEL EDGES BLOCKED & 12" IN PANEL FIELD
2. CONT. RIM BOARD
3. JOISTS, SEE PLAN
4. 2x4 @ 16" O.C.
5. DOUBLE TOP PLATE
6. SIMPSON H2.5 @ 32" O.C.
7. WALL SHEATHING, SEE DETAIL 12/S3.0

9 S3.0 DETAIL
NO SCALE



KEYNOTES:
1. FLOOR SHEATHING, SEE DETAIL 13/S3.0
2. FULL HEIGHT BLOCKING
3. JOISTS, SEE PLAN
4. 2x4 @ 16" O.C.
5. DOUBLE TOP PLATE

10 S3.0 DETAIL
NO SCALE

11 S3.0 DETAIL
NO SCALE

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BUILDING NAME:
PROJECT # 06139100
DRAPER PRISON
ADMIN./ ACADEMY
BLDG. IMPROVEMENTS

PROJECT TITLE:
DRAPER PRISON
ADMIN./ ACADEMY
BLDG. IMPROVEMENTS

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: 7 MARCH 2007

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CAD PROJECT NO: 06-17
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SHEET TITLE
DETAILS

SHEET NUMBER
S3.0

SHEET 9 OF 9