



State of Utah

GARY R. HERBERT
Governor

GREGORY S. BELL
Lt. Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM NO. 1

Date: December 9, 2010

To: Contractors

From: Jeff Reddoor

Reference: Richfield Warehouse Remodel
UDOT - Richfield, Utah
DFCM Project No. 10046900

Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 pages
	<u>Architect's Addendum No. 1</u>	<u>72 pages</u>
	Total	73 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 SCHEDULE CHANGES: There are no Project Schedule changes.

1.2 GENERAL ITEMS: See attached Architect's Addendum No. 1 dated December 9, 2010.



Addendum #1

DATE: Dec. 9, 2010

DFCM Project No.: 10046900

Archiplex Group Project No.: 1007.01

ADDENDUM NO. 1 to the Contract Documents for the Construction of UDOT Region 4 Warehouse Office Remodel, Richfield Utah.

The contents of this addendum supersedes the information contained in the original Contract Documents and are hereby incorporated therein. Unless otherwise so stated, any changes herein offset only the specific drawings, words, or paragraphs mentioned, and the balance of the drawings and specifications remain in full force.

A. APPROVED MANUFACTURERS & PRODUCTS:

Listed products and manufacturers are approved for bidding. This approval does not relieve the supplier, bidder or manufacturer from satisfying the intent of the contract documents including the addenda in every aspect. Failure to conform to the design quality may result in later disapproval. If any product is disapproved after bidding, the product supplier shall supply specified equipment at no extra cost to the owner. Items listed are approved in general and specific details of performance, ratings, model number, etc. are required as part of the shop drawing process and shall be as submitted.

1. **Spec. Section 07530:** Thermoset Membrane Roofing
 - a. Versico EPDM
 - b. Everguard EPDM
2. **Spec. Section 07550:** Multi-Layered Waterproof Floor Surfacing
 - a. Concrete Coatings Inc.
3. **Spec. Section 10100:** Visual Display Boards
 - a. ADP Lemco Inc.
4. **Spec. Section 10650:** Operable Partition Walls
 - a. Moderco Operable Walls
5. **Mechanical/Plumbing:**

Item

Access Doors

Air Flow Measuring Stations

Air Separators

Air Vents

Backdraft Dampers

Manufacturer

Greenheck, Ward

Ebtron

Taco, Wessels, Flo Fab, Wheatley

Watson McDaniel

Greenheck



Backflow Preventers	Conbraco, Febco, Zurn
Balancing Valves	Flow Design, Gerand, Danfoss
Boilers	Raypack, Patterson Kelly, Hydrotherm
Check Valves	Titan, Metraflex, Flo Fab
Circuit Setters	Nexus, Flow Design, Flo Fab
Cleanouts	Zurn
Dampers	Leader, Air Rite, Greenheck Young
Duct Silencers	Commercial Accoustics, Aerosonics
Drinking Fountains	Acorn, Elkay, Sunroc
Exhaust Fans	Penn, Captive Aire, Twin City Fan, Breidert, ACME, Broan
Expansion Tanks	Conbraco, Watts, Wessels, Taco, Flo Fab
Faucets	Moen, Zurn, Symmons, T&S Brass
Flush Valves	Zurn
Floor Drains	Watts
Filters	Flanders, Koch
Fire/Smoke Dampers	Greenheck, NCA, C&S, Leader
Flow Venturis	Flow Design, Preso
Flex Connectors	Unisource, Twin City Hose, Flo Fab
Flex Duct	Hart & Cooley, Thermaflex
Gauges-Thermometers	Miljoco, Weiss, Flo Fab
Grilles Registers and Diffusers	Anemostat, Krueger, Carnes
HET	Clifco, Air Rite, Hercules
Hose Bibbs	Watts, JR Smith
Hose Kits	Nexus
Lavatories, Urinals	Zurn
Louvers	Greenheck, NCA. Wonder Metals, Air Rite, Ruskin, Cesco
Motorized Dampers	Greenheck
P-Traps	Watts, McGuire, Zurn
Plumbing Fixtures	Zurn
Pump Suction Diffusers	Taco
Penthouses	Greenheck, NCA, Wonder Metals, Air Rite, Western Vent
Pumps	Paco, Taco, Armstrong, Flo Fab
Pressure Reducing Valves	Conbraco
Radiant Ceiling Panels	Q-Mark, TPI
Stainless Steel Sinks	Elkay
Shower Controls	Powers, Zurn
Split System AC Unit	Daiken AC
Suction Diffusers	Paco, Taco, Armstrong, Flo Fab
Trap Primers	Zurn
Triple Duty Valves	Paco, Taco, Armstrong, Flo Fab
Roof Curbs	Air Rite
Roof Drains	Watts, Zurn
Stops & Supplies	Watts, T&S Brass
Strainers	Watts, IFC, Metraflex, Titan
Variable Frequency Drives	Cutler Hammer, Emerson, Danfoss, Trane
VAV Boxes	Tuttle and Bailey, Carnes, Metal Aire, Trane
Water Hammer Arrestors	Zurn
ATC Temperature Controls	Trane, Carrier



6. Lighting Fixtures:

Type	Approved manufacture
T-1	H.E. Williams
T-2	H.E. Williams
T-3	H.E. Williams
T-4	H.E. Williams
T-5	H.E. Williams
T-6	H.E. Williams
T-7	H.E. Williams
T-8	H.E. Williams
T-9	H.E. Williams
T-10	Beta
T-11	FC Lighting, KIM, Beta
T-12	Louis Poulsen, LBL (3 fixtures required. Contractor to include cost to install all 3 light fixtures), Delray 6321
T-13	Lite Control, Day-o-Lite
T-14	H.E. Williams
EX-1	Exitronix
EX-2	Exitronix



B. QUESTIONS FROM BIDDERS:

1. Are there to be graphic pages available to the user for the equipment controlled on the project?
Answer: Yes
2. Is a system computer to be provided or is the system to be web based and accessed from owner PC's.
Answer: The system is to be web based and there will be no on site computer.
3. Regarding the boiler and hot water system M601 indicates the boiler will include integral control of the hot water supply temperature based on outside air. This seems to be consistent with the description in the sequence of operation found on 15900-9. Sheet M601 also indicates the boiler will include integral pump and system pump control. Is the ATC contractor to include any DDC controls for the hot water system?
Answer: Yes
4. Sheet 401 has a note by P-1 and P-2 indicating VFD drives. If drives are to be provided are they to modulate speed to maintain system differential pressure?
Answer: Yes
5. Are P-1 and P-2 to be controlled as lead/lag?
Answer: Yes
6. Are P-1 and P-2 controlled by the boiler or by the ATC contractor?
Answer: By the ATC contractor
7. Sheet M501, mechanical room piping schematic, indicates one hot water immersion temperature sensor. Is the intent to have the boiler control the entire hot water system, including pump control, and have available to the DDC system the hot water supply temperature only?
Answer: No
8. Who is to supply and install the emergency boiler kill button at each doorway to the mechanical room?
Answer: The ATC Contractor
9. What trade is to supply, install and wire the pressure switch, alarm bell and low level alarm for the Glycol Fill & Pressure System shown on 8/M503?
Answer: The ATC Contractor
10. Are Exit devices required on any of the doors?
Answer: Yes, Exit devices are required. See attached revised specifications 08410 & 08710



C. DESCRIPTION OF ADDENDUM ITEMS:

1. Civil Addendum Items:

Sheet C100:

- a. Revised curb and gutter callouts at entrance, curb is shown in dashed lines for future, included wording to indicate that curb and gutter is not part of contract
- b. Added note to reference detail H/C103 for all sidewalk against pavement
- c. Added Break room door landing, connection to sidewalk
- d. Revised note 10,11 to include wording that these are not part of contract

Sheet C101:

- a. Revised curb and gutter callouts at entrance, curb is shown in dashed lines for future, included wording to indicate that curb and gutter is not part of contract
- b. Added note to reference detail H/C103 for all sidewalk against pavement
- c. Added Break room door landing, connection to sidewalk
- d. Revised note 10,11 to include wording that these are not part of contract

Sheet C103:

- a. Added Detail H, removed all details for curb and gutter, waterway, ADA ramp

2. Architectural Addendum Items:

Sheet AD101:

- a. Revise Demolition Plan Keynote DE-28 to read: Remove and salvage existing alum. Door, frame, hardware and sidelight. Prep. Opening to receive new door frame, door and sidelight.
- b. Revise Demolition Plan Keynote DE-42 to read: Existing door and frame to remain. Contractor to remove existing closure & lockset. Provide welded cover over hole. Provide cont. weld to close door shut. Grind all welds smooth and repaint door to match existing.

Sheet AE100:

- a. Revised exiting plan to show exit path out of new Break Room Door.
- b. Revised exiting plan at north door.

Sheet AE101:

- a. Deleted Breakroom window and call out W104.
- b. Added Breakroom door and frame #D121B.
- c. Revised dimensions between grids A.5 & A.8.
- d. Revised dimensions between grids 3.5 & 4.2.
- e. Added door number callout to existing door ED106.

Sheet AE103:

- a. Added Breakroom Door and Frame.
- b. Modified Carpet Tile notes in Finish legend as shown.

Sheet AE104:

- a. Modified Carpet Tile notes in Finish legend as shown.

Sheet AE105:

- a. Show new door out of Breakroom.

Sheet AE121:

- a. Revised Reflected ceiling types C to read: 2' x 4' lay-in ceiling grid system with 2' x 2' scored acoustical panels.
- b. Revised all 2' x 4' grids to show 2' x 2' scored panels.
- c. Revised Point of Beginning for ceiling grid starting point as shown.

Sheet AE122:

- a. Revised Reflected ceiling types C to read: 2' x 4' lay-in ceiling grid system with 2' x 2' scored acoustical panels.

Sheet AE201:

- a. Revised Keynote 04200.A5 to read: 8" CMU honed – custom color to be selected by Architect.
- b. Revised Keynote 07410.L0 to read: Metal fascia to match existing style & color.
- c. Revised East elevation to show new Breakroom door and frame.

Sheet AE202:

- a. Revised Keynote 04200.A5 to read: 8" CMU honed – custom color to be selected by Architect.
- b. Revised Keynote 07410.L0 to read: Metal fascia to match existing style & color.

Sheet AE402:

- a. Revised detail B1 to call out HSS wall stiffener & referenced cross section A1/AE502.

Sheet AE504:

- a. Revised Keynote 07410.L0 to read: Metal fascia to match existing style & color.

Sheet AE505:

- a. Revised Keynote 07410.L0 to read: Metal fascia to match existing style & color.

Sheet AE600:

- a. Added Door # D121B to Door Schedule
- b. Revised Door #139B to Hardware Group 13
- c. Noted to paint existing doors #ED105 & ED106 to match existing.
- d. Revised room finish legend floor types F3 & F4

Sheet AE602:

- a. Deleted window W104 from window schedule.
- b. Added window type WL.

3. Structural Addendum items:

Sheet S101:

- a. Removed a masonry infill and note at gridlines 5/A.5

Sheet S102:

- a. Showed pony wall HSS tube supports on mezzanine structural framing plan, sheet S102 and referenced architects detail A1/AE502.

4. Electrical Addendum items:

Sheet E001:

- a. Lighting fixture schedule, change Type T-6 shower light fixture to LED lamp

Sheet E101:

- a. Door contact and card reader has been added to the new door in Breakroom 121. Tie to door security circuit A2-16.

Sheet E201:

- a. New exit sign EX-1 has been added to the new exterior door in Breakroom 121.
- b. An emergency battery pack has been added to the exterior wall mounted light fixture above new door in Breakroom 121.
- c. An emergency battery pack has been added to (2) two type T-9 light fixtures in Cubicle Space 118.
- d. An emergency battery pack has been removed from a type T-9 light fixture in Cubicle Space 118.



D. SPECIFICATIONS:

1. **04200 Concrete Unit Masonry:** Add 04200.1.7.E.5 to read:
 - a. Build sample panels for typical exterior wall in sizes approximately 48" by 48" by full thickness.

2. **08410 Metal Framed Storefront:**
 - a. Revised Spec. Section 08410.2.5.B.5
 - b. Revised Spec. Section 08410.2.5.B.6
 - c. Added Spec. Section 08410.2.5.C

3. **09681 Carpet Tile:** Added 09681.1.2.B to read:
 - a. Contractor shall purchase Material and Installation from the State of Utah Carpet Contract(s).

4. **08710 Door Hardware:**
 - a. Added Section 08710.2.8 – Exit Devices/Panic Hardware
 - b. Added Section 08710.2.14 – Electrical Hardware
 - c. Revised Hardware Set #5
 - d. Revised Hardware Set #8
 - e. Revised Hardware Set #9
 - f. Added Hardware Set #13



E. REISSUED DRAWING LIST:

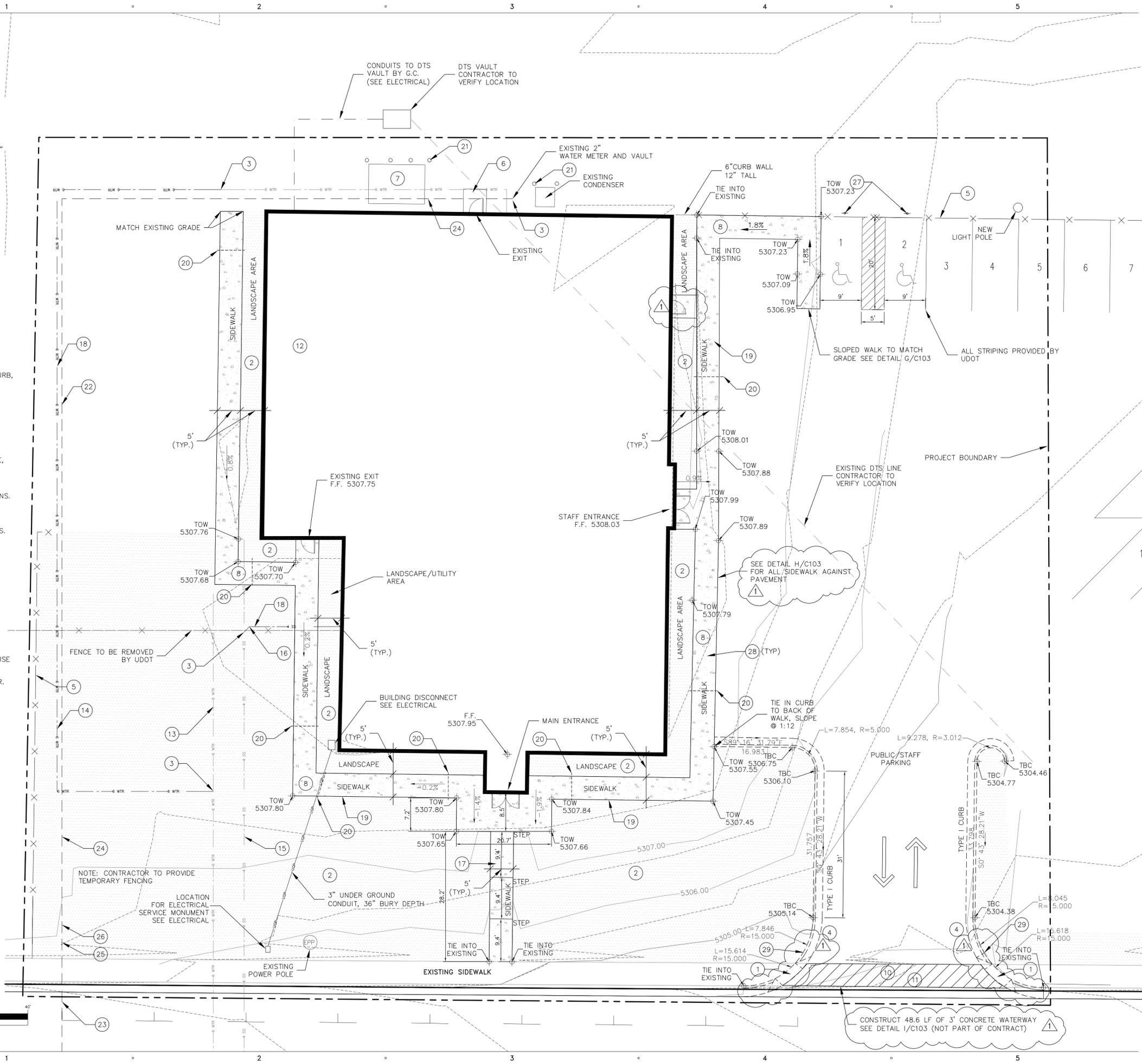
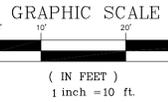
1. C100 Base Bid Site Grading Plan/Site Utility Plan
2. C101 Base Bid & Add. Alt. #1 Site Grading Plan/Site Utility Plan
3. C103 Civil Details
4. AD101 Demolition Plan
5. AE100 Exiting Plan
6. AE101 Level One Floor Plan
7. AE103 Level One Wall Types and Finish Plan
8. AE104 Level Two Wall Types and Finish Plan
9. AE105 Furniture Plan
10. AE121 Level One Reflected Ceiling Plan
11. AE122 Level Two Reflected Ceiling Plan
12. AE201 Exterior Elevations
13. AE202 Exterior Elevations
14. AE402 Stair Plan, Section and Details
15. AE504 Exterior Details
16. AE505 Exterior Details
17. AE600 Door Schedule, Door and Frame Types, Finish Schedule.
18. AE602 Window Types, Schedule and Details.
19. S101 Footing and Foundation Plan
20. S102 Mezzanine Floor Framing Plan
21. E001 General Notes, Details and Schedules
22. E101 Level One Floor Plan - Electrical
23. E201 Level Two Floor Plan - Electrical

F. REISSUED SPECIFICATION LIST:

1. 04200 Concrete Unit Masonry
2. 08410 Metal Framed Storefronts
3. 08710 Door Hardware
4. 09681 Carpet Tiles

- KEYNOTES**
- 1 - ADA RAMP AS PER IBC, ICC, ANSI 117.1 SEE DETAIL H/C103
 - 2 - LANDSCAPED AREA, ALL LANDSCAPING WILL BE COMPLETED BY UDOT.
 - 3 - TIE INTO EXISTING LINE
 - 4 - CURB & GUTTER PROVIDED BY UDOT
 - 5 - FENCE PROVIDED BY UDOT
 - 6 - EXISTING LANDING
 - 7 - PAD FOR CONDENSING UNIT SEE MECHANICAL FOR SIZE & LOCATION, UNLESS NOTED OTHERWISE, SLAB TO BE 5" THICK W/ #4 @ 16" O.C. BOTH DIRECTIONS CENTERED IN SLAB
 - 8 - 5' SIDEWALK OVER 4" COMPACTED ROAD BASE, 4" THICK CONCRETE, 4,000PSI, 5% (+/-) 2% AIR. PREPARATION OF SUBGRADE FOR CONCRETE WALKS.
 - 9 - EXCAVATE EXISTING MATERIAL TO A MINIMUM DEPTH OF 6" TO ALLOW FOR 4" OF CONCRETE OVER 4" OF UNTREATED GRANULAR BASE.
 - 10 - IN ALL AREAS REQUIRING STRUCTURAL FILL, IT SHALL BE CONSTRUCTED USING IMPORTED MATERIAL AND METHODS CONFORMING TO GEOTECHNICAL REPORT AND SECTION 02200.
 - 11 - CONTINUE PLACING COMPACTED FILL UNTIL SUBGRADE ELEVATION AT PAVING AREAS ARE REACHED.
 - 12 - AT SLAB AREA ALLOW FOR 4" OF CONCRETE OVER 4" OF FREE DRAINING GRAVEL.
 - 13 - ALL LIFTS OF STRUCTURAL FILL TO BE OBSERVED AND TESTED PRIOR TO PLACING SUBSEQUENT LIFTS.
 - 14 - 5'x5'x4" THICK CONCRETE LANDING (LANDING CONSTRUCTION TO FOLLOW KEY NOTE 8 WHERE APPLICABLE)
 - 15 - PREPARATION FOR SUB-GRADE AND NEW ASPHALT PAVING. NOT PART OF CONTRACT
 - 16 - CURB CUT, REMOVE EXISTING SIDEWALK AND CURB, NOT PART OF CONTRACT
 - 17 - EXISTING LOADING DOCK TO BE REMOVED, AND DISPOSED OF. CONTRACTOR TO REMOVE ALL CONCRETE THEN TO BE FILLED W/ STRUCTURAL FILL COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY AS PER ASTM D-1557. PERFORM COMPACTION TESTS FREQUENTLY.
 - 18 - EXISTING FIRE LINE
 - 19 - APPROX. 200 LF OF 6" DUCTILE IRON FIRE LINE, COORDINATE W/ MECHANICAL PLANS.
 - 20 - EXISTING SEWER LATERAL
 - 21 - EXTEND SEWER LATERAL, SEE MECHANICAL PLANS.
 - 22 - LANDINGS. MAX RISE EQUAL 7"
 - 23 - SEE DETAIL A/C102 FOR TRENCH REQUIREMENTS.
 - 24 - GENERAL CONTRACTOR TO SAW-CUT EXISTING ASPHALT, AND REMOVE AND DISPOSE ASPHALT FOR SIDEWALK INSTALLATION AS REQUIRED.
 - 25 - 2" PVC CONDUIT SLEEVE
 - 26 - BOLLARD, SEE DETAIL G/C103
 - 27 - PLACE 2" WATERLINE IN SAME TRENCH
 - 28 - HOT TAP EXISTING WATER MAIN
 - 29 - 2" POLY-PIPE, 36" BURY DEPTH
 - 30 - NEW WATER METER VAULT, AND SETTER. RE-USE EXISTING 2" WATER METER.
 - 31 - INSTALL 2" STOP AND WASTE VALVE AND RISER. EXTEND 2" LINE FROM VALVE TO GRADE.
 - 32 - ADA STALL SIGN MARKER SEE DETAIL F/C103
 - 33 - APPLY SALT AND WATER BARRIER AT ALL EXTERIOR CONCRETE PADS, SIDEWALKS, RAMPS, ECT. SEE SPECIFICATIONS SECTION 03055.
 - 34 - SEE DETAIL J/C103 FOR CURB PROFILE

AREA TOTALS:
SIDEWALK: 2261 SF



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CONSULTANTS

PROFESSIONAL SEAL

ISSUE

12-9-10	ADDENDUM #1
9-20-10	DFCM REVIEW COMMENTS
8-16-10	DFCM REVIEW SUBMITTAL

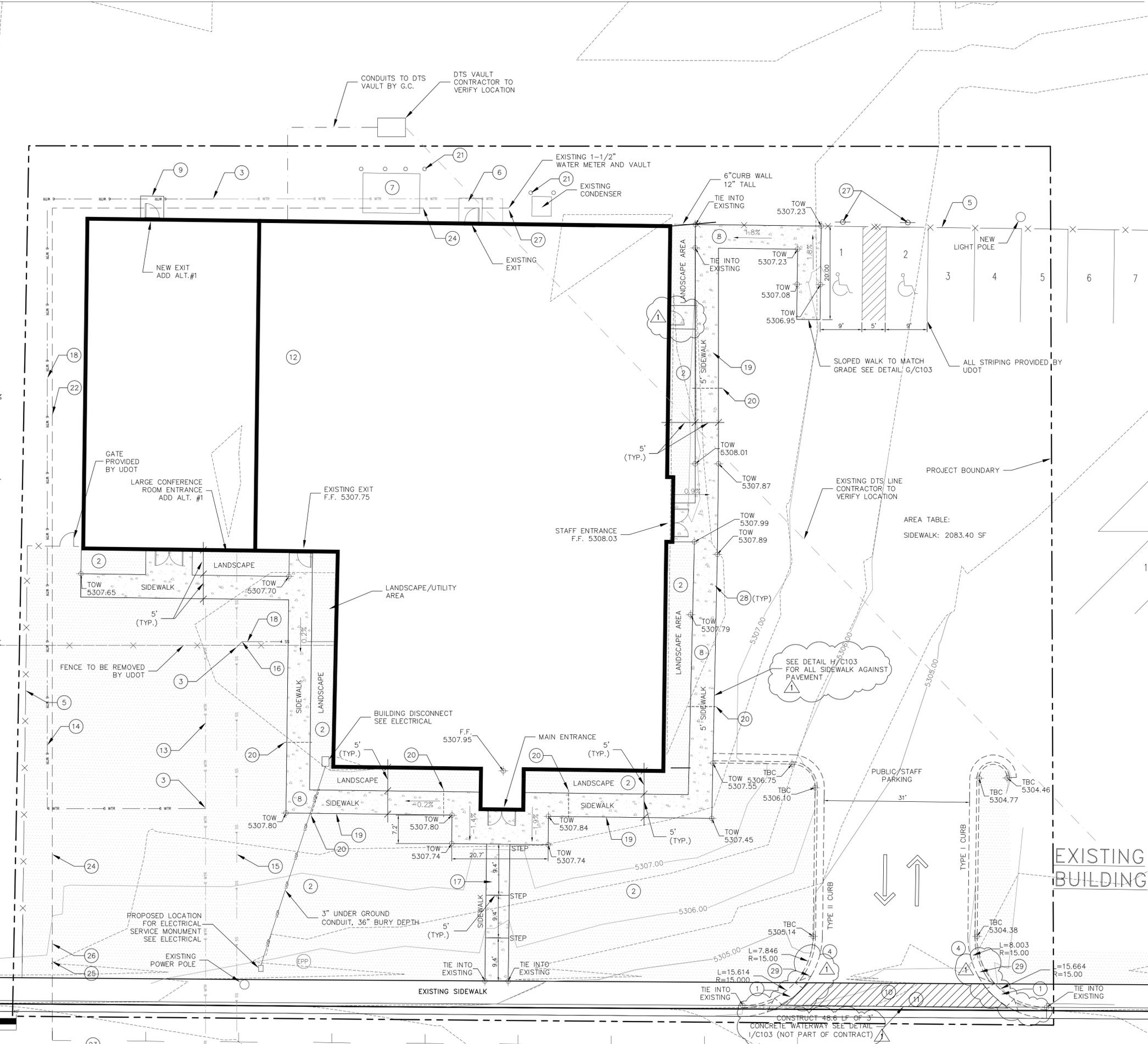
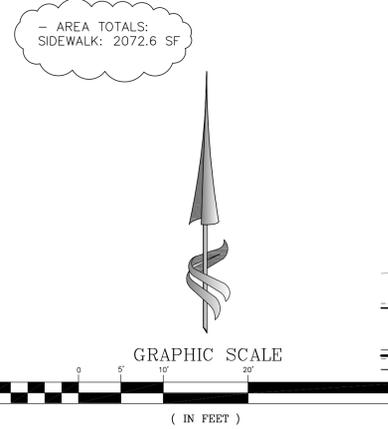
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DFCM CONTRACT NO:	107453	
ARCHIPLEX PROJECT NO:	1007.01	
DRAWN BY:	RJM	
CHECKED BY:	AJH	
SCALE:		
DATE:	AUGUST 16, 2010	

SHEET TITLE

**BASE BID
SITE GRADING PLAN
SITE UTILITY PLAN**

C100

- KEYNOTES**
- 1 - ADA RAMP AS PER IBC, ICC, ANSI A117.1
 - 2 - LANDSCAPED AREA, ALL LANDSCAPING WILL BE COMPLETED BY UDOT.
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CONNECTING COMMUNITIES

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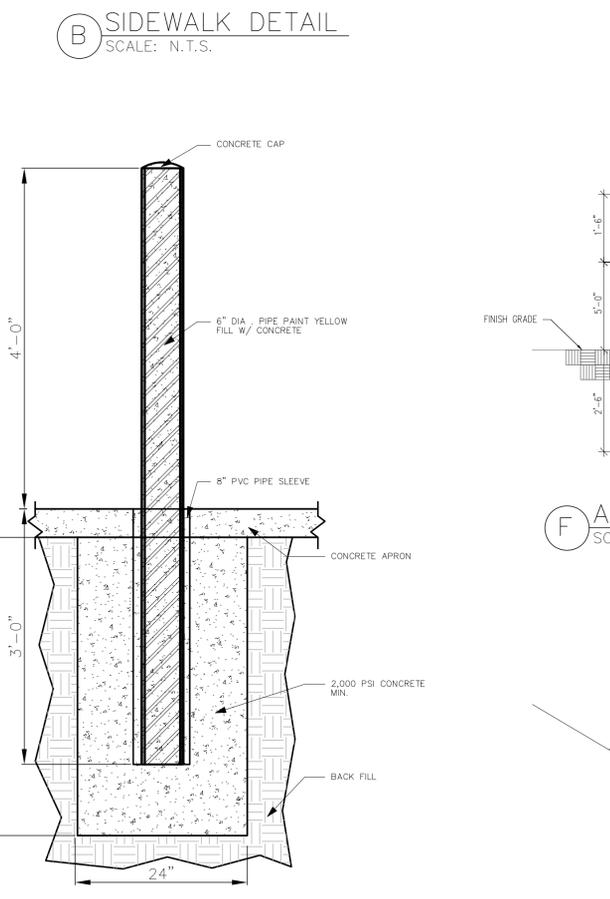
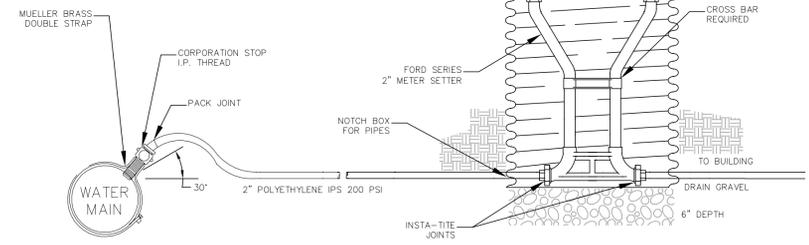
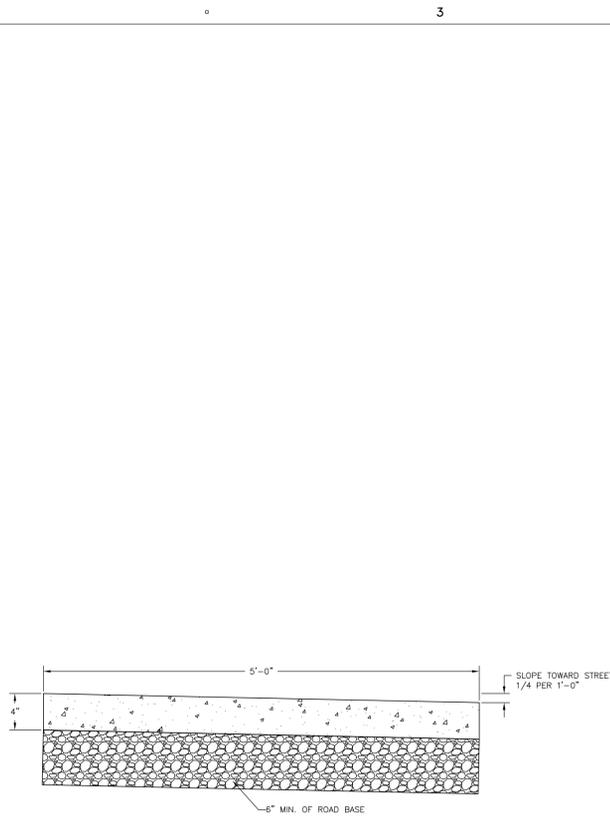
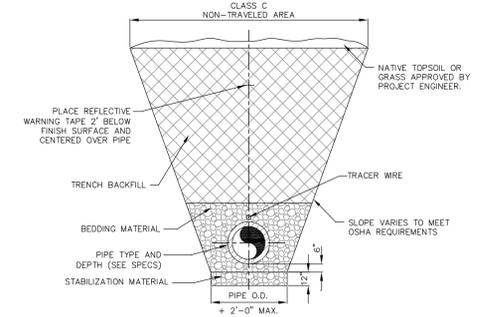
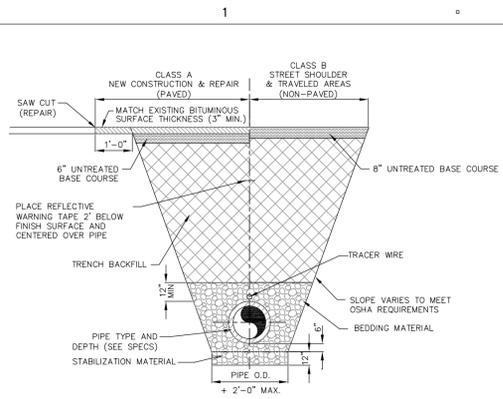
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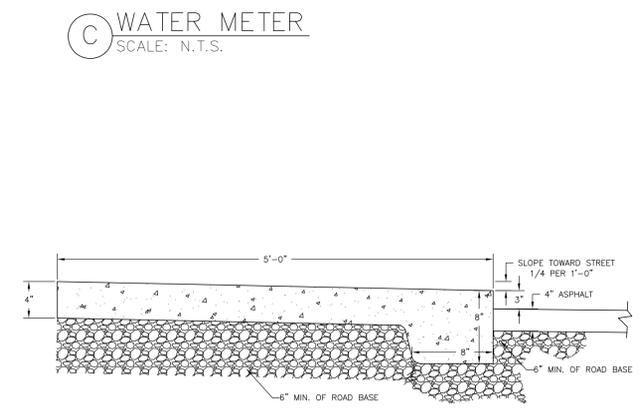
SHEET TITLE

BASE BID & ADD
ATL#1
SITE GRADING PLAN
SITE UTILITY PLAN

C101



NOTES:
 1- METER PROVIDED BY OWNER IMPROVEMENT DISTRICT
 2- METER BOX, COVER, CORPORATION STOP AND SERVICE LINES TO BE FURNISHED AND INSTALLED BY CONTRACTOR, IF REQUESTED BY OWNER. OWNER ANTICIPATES USING EXISTING METER SETTERS AND BOX.



A TYPICAL TRENCH DETAIL
SCALE: N.T.S.

B SIDEWALK DETAIL
SCALE: N.T.S.

C WATER METER
SCALE: N.T.S.

D TAPPING SLEEVE AND VALVE DETAIL
SCALE: N.T.S.

E BOLLARD DETAIL
SCALE: N.T.S.

F ADA SIGNAGE
SCALE: N.T.S.

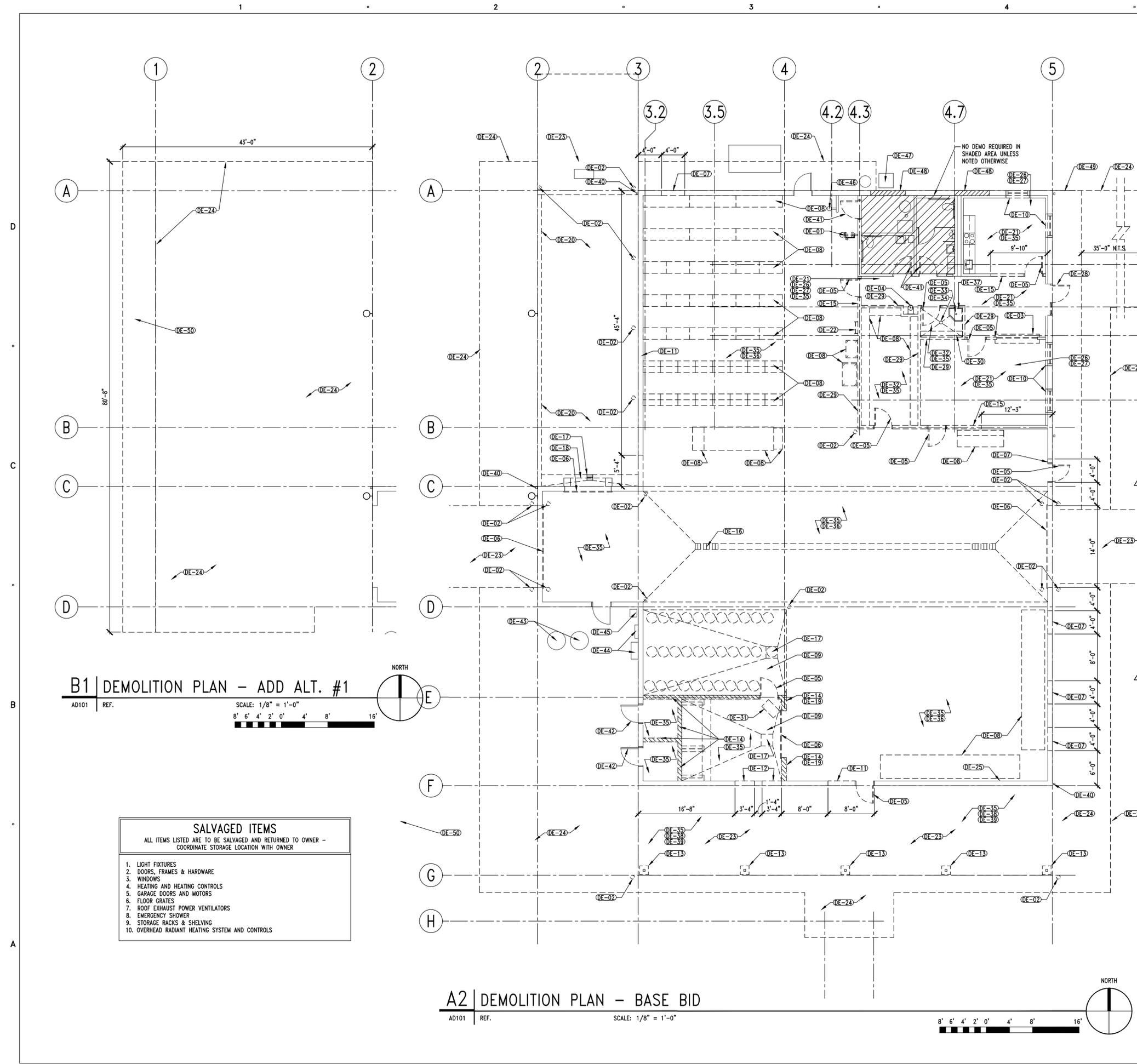
G SLOPE WALK
SCALE: N.T.S.

H SIDEWALK THICKEND EDGE DETAIL
SCALE: N.T.S.

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DATE:	AUGUST 16, 2010	



DEMOLITION PLAN KEYNOTES	
OE-01	REMOVE AND DISCARD EMERGENCY EYEWASH STATION - CAP SUPPLY & DRAIN LINES, PATCH HOLE IN CONCRETE SLAB
OE-02	CUT PIPE BOLLARD AT EXISTING GRADE/FLOOR LEVEL AND GRIND SMOOTH TO RECEIVE NEW FLOOR FINISH WHERE OCCURS - REMOVE PIPE BOLLARD BELOW GRADE IF IT INTERFERES WITH NEW FOOTINGS, SLAB OR FOUNDATION WALLS
OE-03	REMOVE AND DISCARD EXISTING COUNTER
OE-04	REMOVE AND DISCARD EXISTING DRINKING FOUNTAIN AND SUPPLY & DRAIN LINES, SEE: FLOOR PLANS & PLUMB.
OE-05	REMOVE AND SALVAGE DOOR, FRAME & HARDWARE
OE-06	REMOVE AND SALVAGE OVERHEAD DOOR AND CONTROLS - REMOVE AND DISCARD EXISTING ELECTRICAL SUPPLY & CONDUIT
OE-07	REMOVE AND SALVAGE CMU TO ACCOMMODATE NEW WINDOW, VERIFY SIZE PRIOR TO CUTTING CMU. STORE REMOVED CMU TO BE USED FOR INFILL - PREP OPENING TO RECEIVE NEW WINDOW
OE-08	REMOVE AND SALVAGE EXISTING STORAGE RACKS
OE-09	REMOVE AND SALVAGE EXISTING FLOOR GRATING
OE-10	REMOVE AND SALVAGE EXISTING WINDOW - PREP OPENING TO RECEIVE NEW WINDOW
OE-11	REMOVE AND SALVAGE CMU WALL TO NEAREST COURSE ABOVE FINISH CEILING HEIGHT - PREP OPENING TO RECEIVE NEW FINISH OR FRAMING. STORE CMU REMOVED DURING DEMOLITION TO BE USED FOR CMU INFILL - SEE: EXTERIOR ELEVATIONS
OE-12	REMOVE CMU TO ACCOMMODATE NEW DOOR - PREP OPENING TO RECEIVE NEW DOOR. VERIFY SIZE PRIOR TO CUTTING CMU. STORE REMOVED CMU TO BE USED FOR INFILL - SEE: EXTERIOR ELEVATIONS
OE-13	REMOVE AND DISCARD STEEL COLUMN & CONCRETE PIER
OE-14	REMOVE AND DISCARD EXISTING CMU WALL
OE-15	REMOVE AND DISCARD EXISTING PARTITION WALL - PREP ADJACENT WALL TO RECEIVE NEW FINISH OR NEW FRAMING, SEE: FLOOR PLANS
OE-16	REMOVE AND DISCARD EXISTING TRENCH DRAIN AND GRATING - CAP DRAIN LINES, SEE: PLUMB.
OE-17	REMOVE AND DISCARD CATCH BASIN - CAP DRAIN LINE, SEE: PLUMB.
OE-18	REMOVE AND DISCARD DOCK LEVELER - PREP OPENING TO RECEIVE NEW CMU WALL OR CONC. SLAB - SEE: FLOOR PLANS
OE-19	PROVIDE TEMPORARY BRACING FOR ROOF TRUSSES, SEE: STRUCT.
OE-20	REMOVE AND DISCARD CONCRETE LOADING RAMP, CONCRETE CURB & FOOTINGS. CONTRACTOR TO INFILL AREA WITH FILL AS PER CIVIL DRAWINGS
OE-21	REMOVE AND DISCARD SUSPENDED CEILING GRID & TILE IN THIS AREA
OE-22	TRIM AND RELOCATE ROOF ACCESS LADDER TO MEZZANINE LEVEL - REPLACE LADDER IF DAMAGED
OE-23	REMOVE AND DISCARD EXISTING CONCRETE APRON
OE-24	REMOVE AND DISCARD EXISTING ASPHALT TO ALLOW FOR NEW CONSTRUCTION
OE-25	REMOVE AND DISCARD PORTION OF EXISTING PARTITION WALL TO ALLOW FOR NEW FIRE EXTINGUISHER CABINET
OE-26	REMOVE AND DISCARD EXISTING VINYL WALL BASE IN THIS AREA - PATCH AND REPAIR WALL AS REQUIRED TO RECEIVE NEW FINISH
OE-27	REMOVE AND DISCARD EXISTING VCT FLOORING IN THIS AREA - PATCH AND REPAIR SUBFLOOR AS REQUIRED TO RECEIVE NEW FINISH
OE-28	REMOVE AND SALVAGE EXISTING ALUM. DOOR, FRAME, HARDWARE AND SIDELIGHT, PREP OPENING TO RECEIVE NEW DOOR FRAME, DOOR AND SIDELIGHT.
OE-29	REMOVE AND DISCARD EXISTING PARTITION WALL
OE-30	REMOVE AND SALVAGE EXISTING SHELVING - INSTALL IN NEW JAN. CLOSET
OE-31	REMOVE AND SALVAGE EXISTING UNIT HEATER AND CONTROLS - REMOVE AND DISCARD EXISTING ELECTRICAL SUPPLY & CONDUIT
OE-32	REMOVE AND DISCARD GYPSUM BOARD CEILING IN THIS AREA
OE-33	REMOVE AND DISCARD UTILITY SINK AND SUPPLY & DRAIN LINES, SEE: PLUMB.
OE-34	REMOVE AND DISCARD FLOOR DRAIN & CAP DRAIN LINE, SEE: PLUMB.
OE-35	REMOVE AND SALVAGE EXISTING LIGHT FIXTURES IN THIS AREA
OE-36	REMOVE AND SALVAGE EXISTING RADIANT HEATING SYSTEM IN THIS AREA
OE-37	REMOVE AND SALVAGE EXISTING MOP RACK - INSTALL IN NEW JAN. CLOSET
OE-38	REMOVE AND DISCARD METAL ROOF JOISTS & STEEL BEAM IN THIS AREA
OE-39	REMOVE AND DISCARD STANDING SEAM METAL ROOF IN THIS AREA
OE-40	TRIM (E) DOWNSPOUT AT BOTTOM OF SOFFIT
OE-41	REMOVE AND SALVAGE DOOR, SALVAGE ALL HARDWARE TO BE REINSTALLED ON NEW DOOR
OE-42	EXISTING DOOR AND FRAME TO REMAIN. CONTRACTOR TO REMOVE EXISTING CLOSURE & LOCKSET, PROVIDE WELDED COVER OVER HOLE. PROVIDE CONT WELD TO CLOSE DOOR SHUT. GRIND ALL WELDS SMOOTH & REPAINT DOOR TO MATCH EXISTING.
OE-43	EXISTING WATER AND OIL SEPARATOR TO REMAIN
OE-44	EXISTING ELECTRICAL PANELS TO REMAIN
OE-45	EXISTING GAS METER TO REMAIN
OE-46	EXISTING FIRE RISER TO REMAIN
OE-47	EXISTING CONDENSING UNIT TO REMAIN
OE-48	REMOVE AND SALVAGE CMU TO ACCOMMODATE NEW MECHANICAL LOUVER, VERIFY SIZE & LOCATION PRIOR TO CUTTING CMU (SEE: EXTERIOR ELEVATIONS). STORE REMOVED CMU TO BE USED FOR INFILL
OE-49	REMOVE AND DISCARD EXISTING CONCRETE SIDEWALK
OE-50	AS PART OF BASE BID, CONTRACTOR TO SAW CUT AND REMOVE ASPHALT TRENCH AS REQUIRED TO PROVIDE NEW WATER LINE & CONDUIT AT WEST OF ADD ALT. #1.

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NO.	DATE	DESCRIPTION
12-9-10		ADDENDUM #1
9-20-10		DFCM REVIEW COMMENTS
8-16-10		DFCM REVIEW SUBMITTAL

MARK DATE DESCRIPTION

MARK	DATE	DESCRIPTION
DFCM PROJECT NO:		10046900
DFCM CONTRACT NO:		107453
ARCHIPLEX PROJECT NO:		1007.01
DRAWN BY:		A. PHILLIPS
CHECKED BY:		R. STANISLAW
SCALE:		AS SHOWN
DATE:		AUGUST 16, 2010

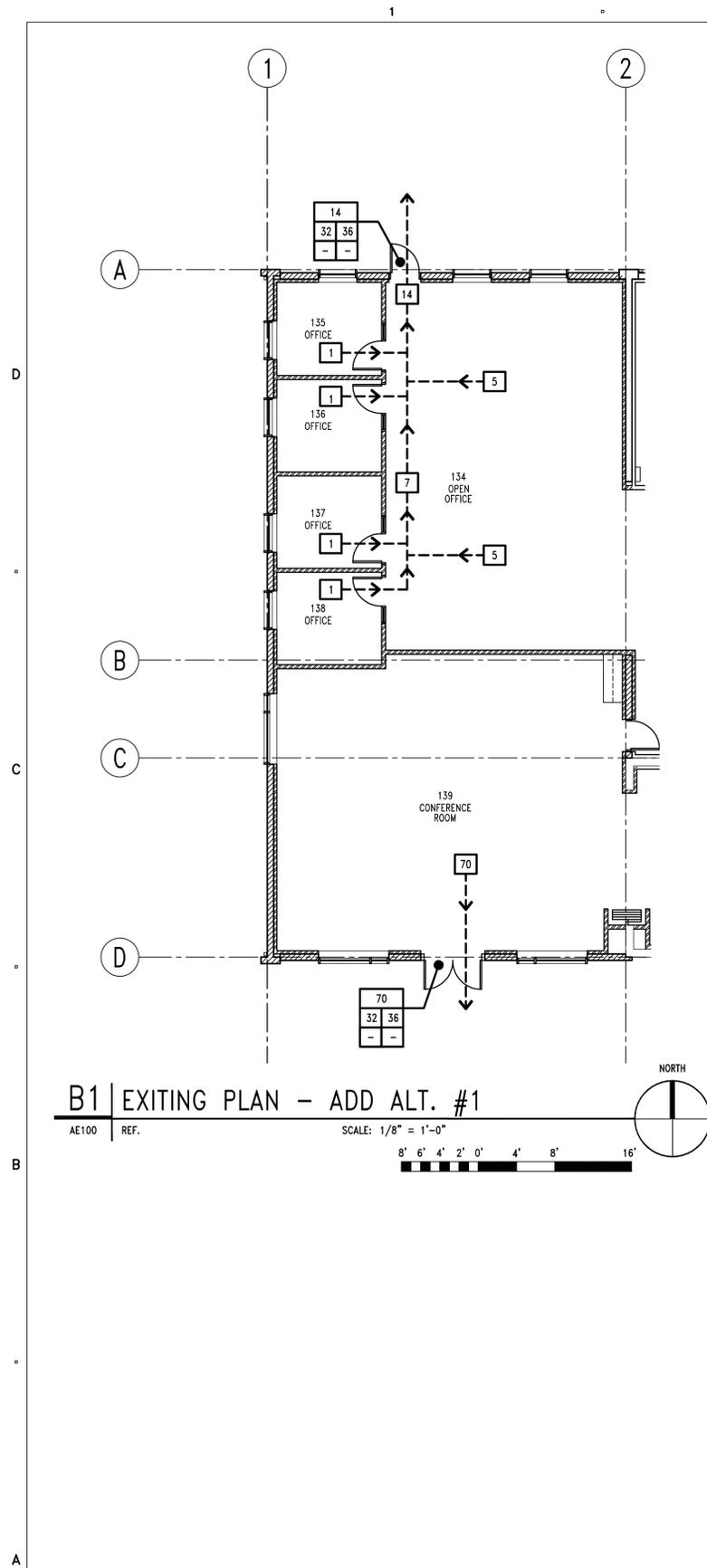
GENERAL NOTES

- FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- DO NOT SCALE DRAWINGS.
- SEE CIVIL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- CONTRACTOR RESPONSIBLE FOR DISPOSAL OF ALL DEMOLITION MATERIAL.
- CONTRACTOR TO PATCH AND REPAIR ALL REMAINING SURFACES TO RECEIVE NEW FINISHES AS PER ROOM FINISH SCHEDULED.
- CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CUTTING ANY EXISTING WALLS - COORDINATE DIMENSIONS WITH SHEET AE101.
- CONTRACTOR TO PROVIDE SAMPLES OF ALL EXISTING CMU TO ARCHITECT FOR SELECTION OF NEW CMU.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK BETWEEN TRADES AND COORDINATION OF CONTRACT DOCUMENTS BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND OTHER DISCIPLINES INCLUDED IN THE CONTRACTS DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF SUB-CONTRACTORS TO REVIEW/COORDINATE WITH OTHER TRADES.

SHEET TITLE

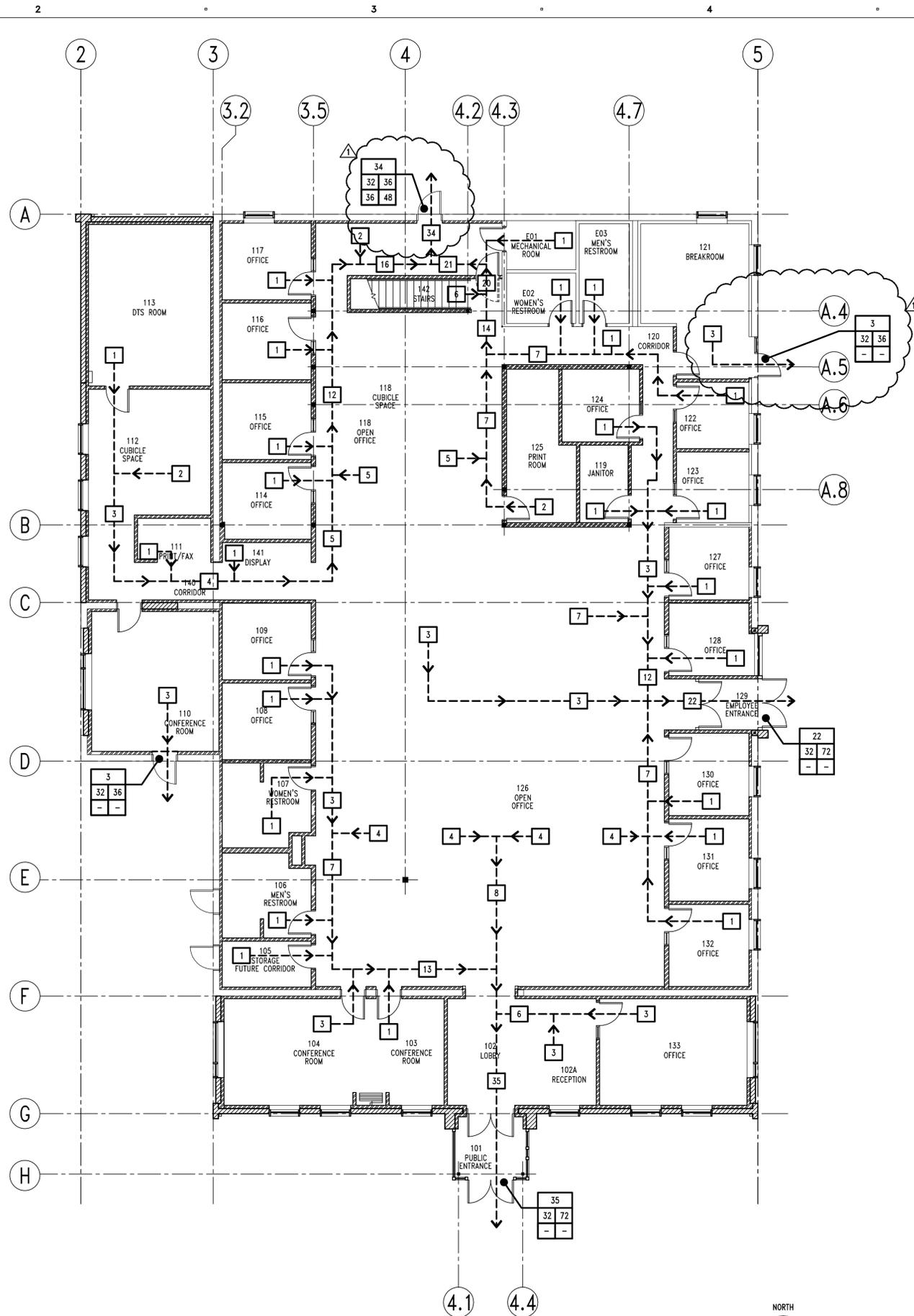
DEMOLITION PLAN

AD101



B1 EXITING PLAN - ADD ALT. #1

AE100 REF. SCALE: 1/8" = 1'-0"



A2 EXITING PLAN - BASE BID

AE100 REF. SCALE: 1/8" = 1'-0"

LEGEND

NUMBER OF OCCUPANTS EXITING
 PROVIDED CLEAR EXIT DOOR WIDTH
 PROVIDED CLEAR EXIT STAIR WIDTH
 REQUIRED DOOR WIDTH
 REQUIRED STAIR WIDTH

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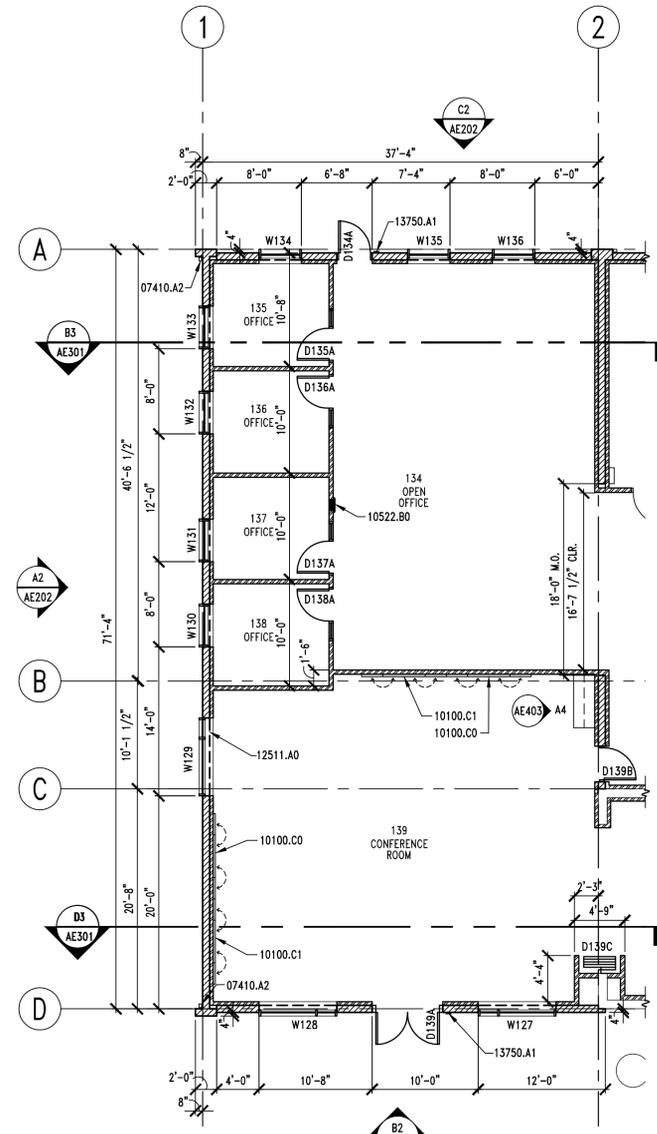
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DFCM CONTRACT NO:	107453	
ARCHIPLEX PROJECT NO:	1007.01	
DRAWN BY:	A. PHILLIPS	
CHECKED BY:	R. STANISLAW	
SCALE:	AS SHOWN	
DATE:	AUGUST 16, 2010	

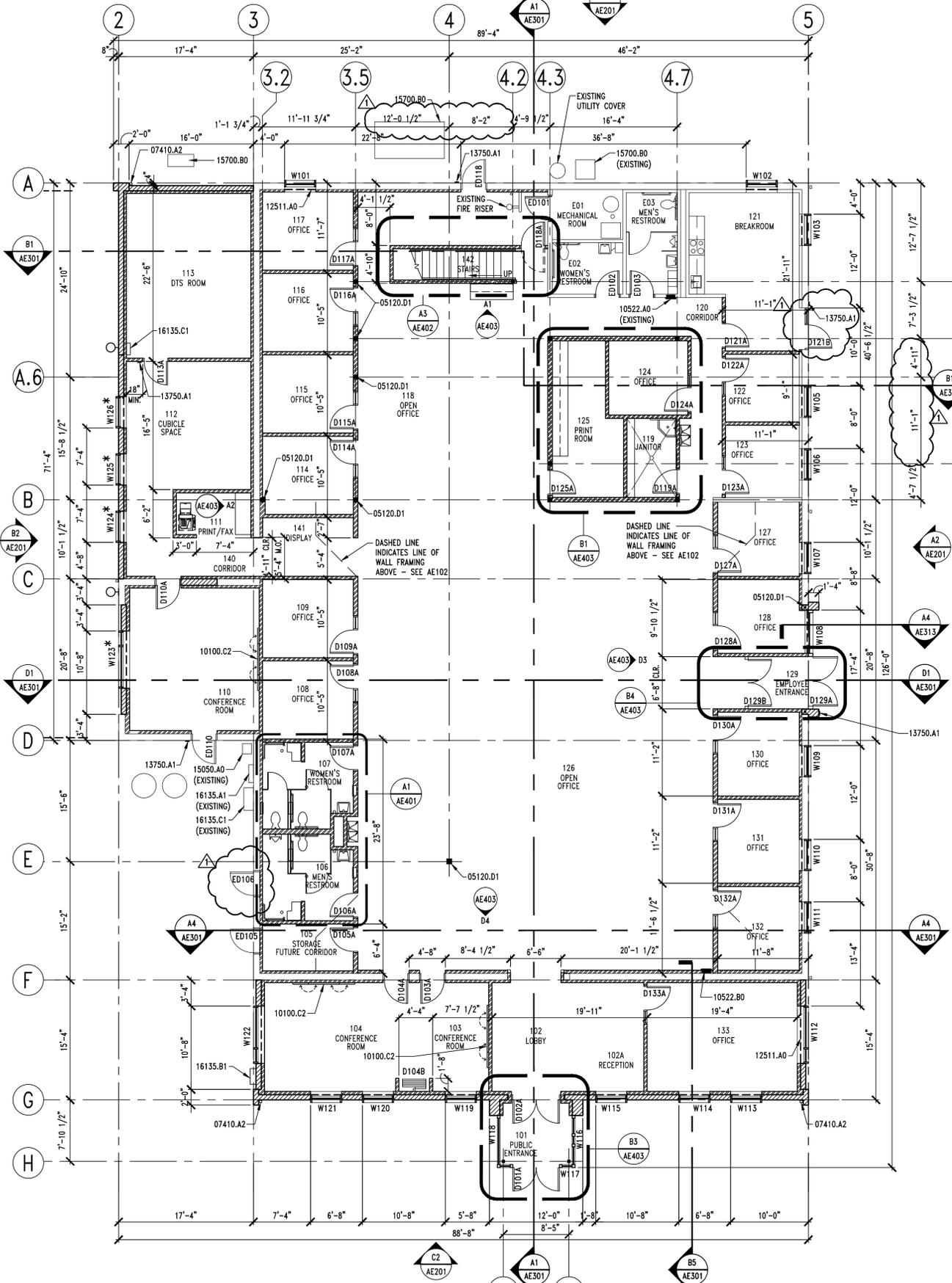
SHEET TITLE

EXITING PLAN

AE100



**B1 | LEVEL ONE FLOOR PLAN
ADD ALT. #1**
AE101 REF. SCALE: 1/8" = 1'-0"
8' 6' 4' 2' 0' 4' 8' 16'



A2 | LEVEL ONE FLOOR PLAN - BASE BID
AE101 REF. SCALE: 1/8" = 1'-0"
8' 6' 4' 2' 0' 4' 8' 16'

KEYNOTES

- 04200.A1 CMU TO MATCH ADJACENT - SALVAGED FROM CMU DEMOLITION
- 05120.D1 TUBE STEEL COLUMN - SEE STRUCTURAL
- 07410.A2 DOWNSPOUT
- 10100.C0 MARKER BOARD 48x96, ALUMINUM CONFERENCE CABINET WITH ONE OPERABLE TACK BOARD PANEL (LEFT LEAF ONLY) AS SPECIFIED
- 10100.C1 MARKER BOARD 48x96, ALUMINUM CONFERENCE CABINET WITH ONE OPERABLE TACK BOARD PANEL (RIGHT LEAF ONLY) AS SPECIFIED
- 10100.C2 MARKER BOARD 48x96, ALUMINUM CONFERENCE CABINET WITH TWO OPERABLE TACK BOARD PANELS AS SPECIFIED
- 10522.B0 SEMI-RECESSED FIRE EXTINGUISHER CABINET W/FIRE EXTINGUISHER - SEE DETAIL A5/AE502
- 12511.A0 HORIZONTAL LOUVER BLINDS
- 13750.A1 PROX CARD READER - SEE ELECTRICAL
- 15050.A0 GAS METER - SEE PLUMBING DRAWINGS
- 15700.B0 CONDENSING UNIT - SEE MECHANICAL
- 16135.A1 ELECTRICAL METER - SEE ELECTRICAL
- 16135.B1 EMERGENCY DISCONNECT - SEE ELECTRICAL
- 16135.C1 ELECTRICAL PANEL - SEE ELECTRICAL

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. SEE SHEET AE501 FOR WALL TYPES.
5. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION/CONTROL JOINT LOCATIONS IN CONCRETE SLAB.
6. ALL DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING, UNLESS NOTED OTHERWISE.
7. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK BETWEEN TRADES AND COORDINATION OF CONTRACT DOCUMENTS BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND OTHER DISCIPLINES INCLUDED IN THE CONTRACT'S DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF SUB-CONTRACTORS TO REVIEW/COORDINATE WITH OTHER TRADES.

LEGEND

- * INDICATES AN ITEM OR SYSTEM THAT IS PART OF BASE BID ONLY AND WILL NOT BE USED IF ADD ALTERNATE #1 IS INCLUDED IN THE CONTRACT FOR CONSTRUCTION
- INDICATES WINDOWS THAT GET HORIZONTAL LOUVER BLINDS TREATMENT.

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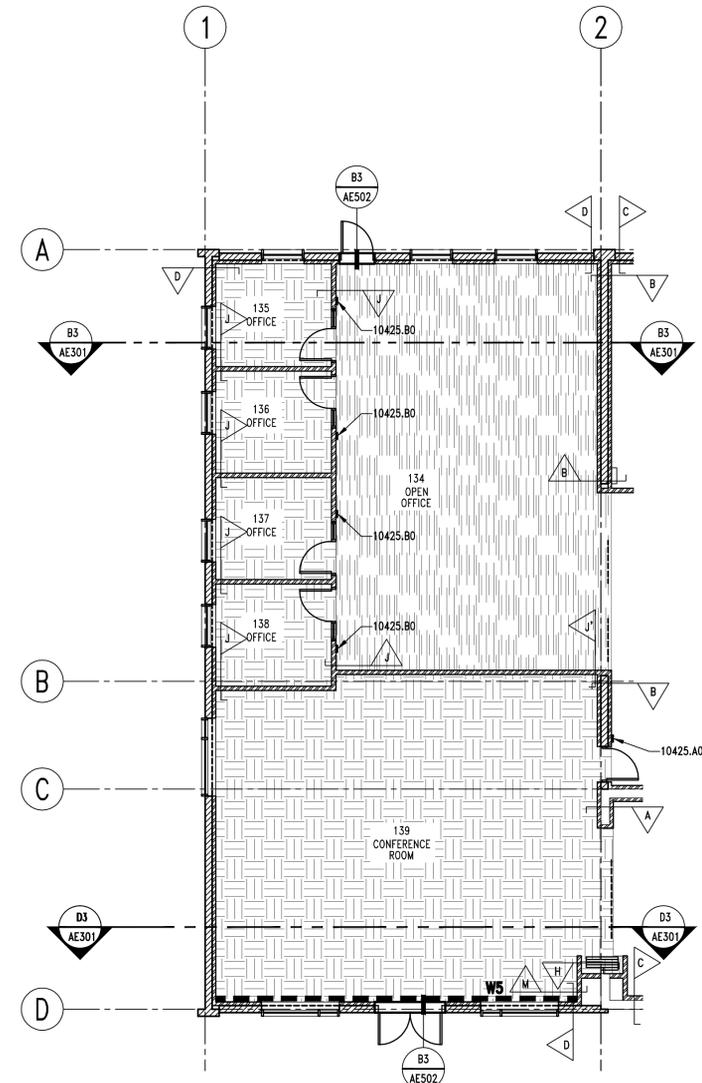
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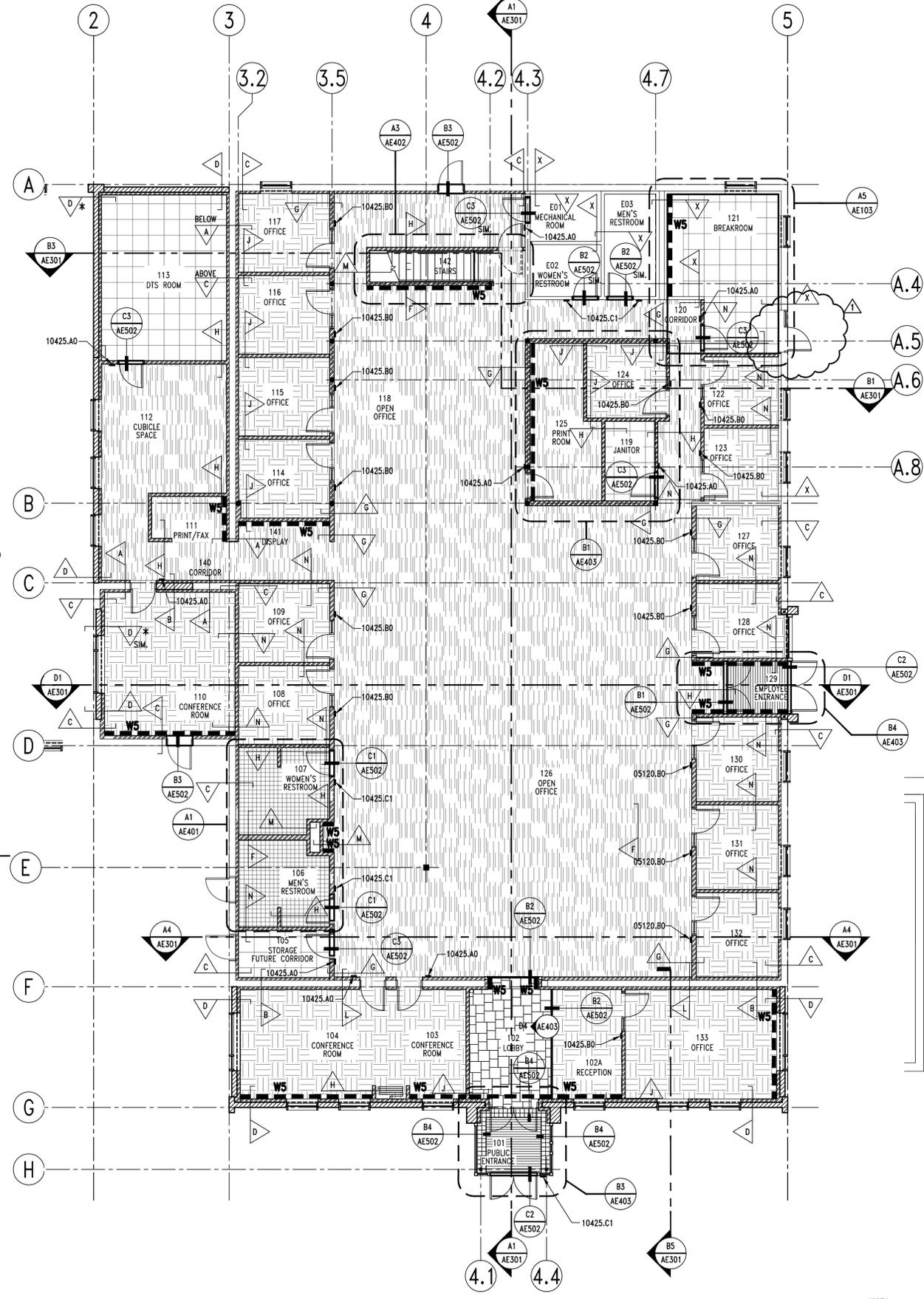
SHEET TITLE

LEVEL ONE FLOOR PLAN

AE101



C1 | LEVEL ONE WALL TYPES & FINISH PLAN - ADD ALTERNATE
 AE103 REF. SCALE: 1/8" = 1'-0"



A2 | LEVEL ONE WALL TYPES & FINISH PLAN - BASE BID
 AE103 REF. SCALE: 1/8" = 1'-0"

KEYNOTES

10425.A0 ROOM SIGNAGE
 10425.B0 EMPLOYEE SIGNAGE
 10425.C1 ACCESSIBLE SIGNAGE

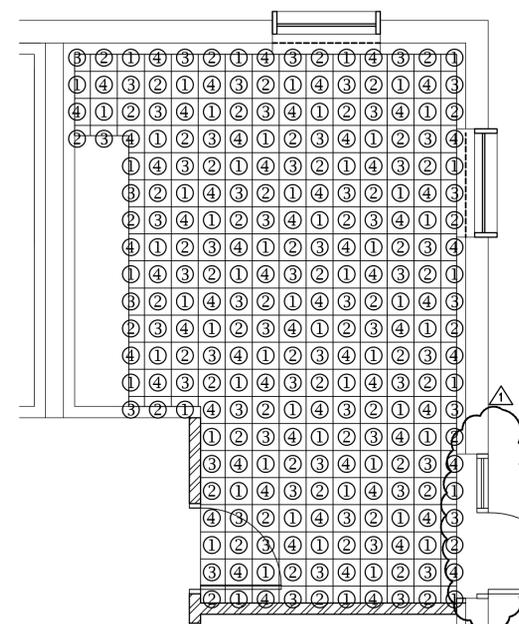
FINISH LEGEND

- ACCENTED WALL COLOR, REFER TO FINISH SCHEDULE
- CARPET TILE, MONOLITHIC LAYOUT, REFER TO FINISH SCHEDULE - CONTRACTOR SHALL PURCHASE MATERIAL AND INSTALLATION FROM THE STATE OF UTAH CARPET CONTRACTS.
- CARPET TILE, QUARTER-TURN LAYOUT, REFER TO FINISH SCHEDULE - CONTRACTOR SHALL PURCHASE MATERIAL AND INSTALLATION FROM THE STATE OF UTAH CARPET CONTRACTS.
- VINYL COMPOSITION TILE, 12"x12", REFER TO FINISH SCHEDULE
- PORCELAIN TILE 6.5"x6.5", REFER TO FINISH SCHEDULE
- PORCELAIN TILE 17"x17" & 13"x13", REFER TO FINISH SCHEDULE
- ENTRY MAT, REFER TO FINISH SCHEDULE AND SPECIFICATIONS
- EXPOSED CONCRETE WITH EPOXY COATING

GENERAL NOTES

- FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
- DO NOT SCALE DRAWINGS.
- REFER TO DETAILS D1, D2 & D3/AE502 FOR ROOM AND ACCESSIBLE SIGNAGE.
- ALL SIGNAGE, REFER TO SPECIFICATION SECTION 10425. EMPLOYEE SIGNAGE FOR SYSTEMS FURNITURE. CONTRACTOR TO COORDINATE WITH OWNER FOR LOCATIONS AND PLACEMENT. PROVIDE MINIMUM QUANTITY 27 FOR BASE BID AND MINIMUM ADDITIONAL QUANTITY 8 FOR ADD-ALTERNATE.
- WALL TYPE SHOWN TO CARRY ACROSS DOOR & WINDOW HEADS, AND OPENINGS, UNLESS NOTED OTHERWISE.

* INDICATES AN ITEM OR SYSTEM THAT IS PART OF BASE BID ONLY AND WILL NOT BE USED IF ADD ALTERNATE #1 IS INCLUDED IN THE CONTRACT FOR CONSTRUCTION.



A5 | FLOOR PATTERN 121 BREAKROOM
 AE103 REF. AE103 SCALE: NTS

VINYL COMPOSITION TILE TYPE/COLOR:
 ① MANNINGTON, SOLID POINT, 302 GRAVEL (12"x12")
 ② MANNINGTON, SOLID POINT, 313 PRAIRIE (12"x12")
 ③ MANNINGTON, SOLID POINT, 317 COOL BEIGE (12"x12")
 ④ MANNINGTON, SOLID POINT, 337 TOASTED SESAME (12"x12")

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 06-90289-0301
 12/9/10
 LICENSED ARCHITECT

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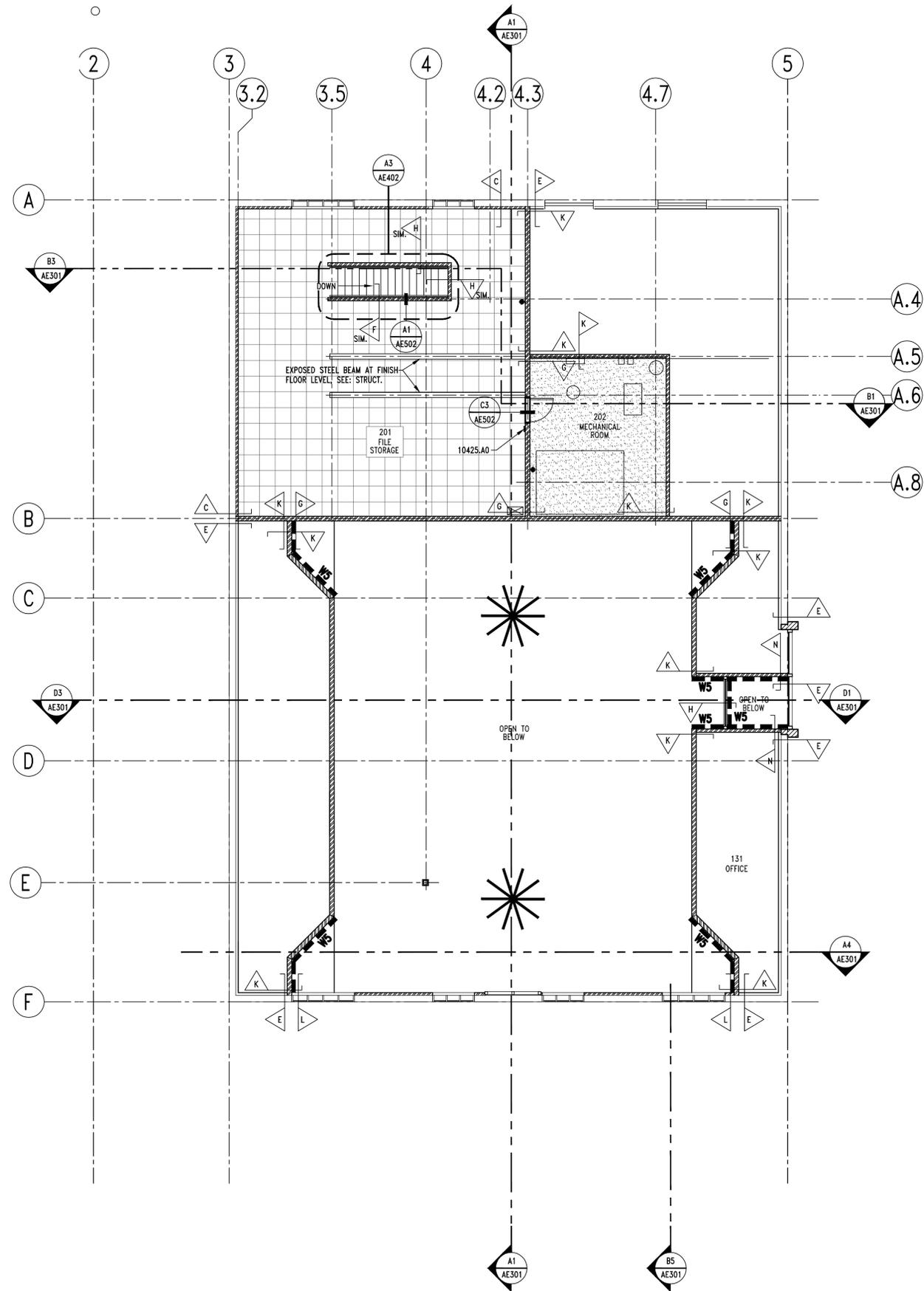
12-9-10	ADDENDUM #1
9-20-10	DFCM REVIEW COMMENTS
8-16-10	DFCM REVIEW SUBMITTAL

MARK	DATE	DESCRIPTION
DFCM PROJECT NO:	1004690	
DFCM CONTRACT NO:	10745	
ARCHIPLEX PROJECT NO:	1007.0	
DRAWN BY:	A. PHILLIPS	
CHECKED BY:	R. STANISLAW	
SCALE:	AS SHOWN	
DATE:	AUGUST 16, 201	

SHEET TITLE

LEVEL ONE WALL TYPES & FINISH PLAN

AE103



KEYNOTES	
10425.A0	ROOM SIGNAGE
10425.B0	EMPLOYEE SIGNAGE
10425.C1	ACCESSIBLE SIGNAGE

FINISH LEGEND	
	ACCENTED WALL COLOR, REFER TO FINISH SCHEDULE
	CARPET TILE, MONOLITHIC LAYOUT, REFER TO FINISH SCHEDULE - CONTRACTOR SHALL PURCHASE MATERIAL AND INSTALLATION FROM THE STATE OF UTAH CARPET CONTRACTS.
	CARPET TILE, QUARTER-TURN LAYOUT, REFER TO FINISH SCHEDULE - CONTRACTOR SHALL PURCHASE MATERIAL AND INSTALLATION FROM THE STATE OF UTAH CARPET CONTRACTS.
	VINYL COMPOSITION TILE, 12"x12", REFER TO FINISH SCHEDULE
	PORCELAIN TILE 6.5"x6.5", REFER TO FINISH SCHEDULE
	PORCELAIN TILE 17"x17" & 13"x13", REFER TO FINISH SCHEDULE
	ENTRY MAT, REFER TO FINISH SCHEDULE AND SPECIFICATIONS
	EXPOSED CONCRETE WITH EPOXY COATING

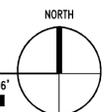
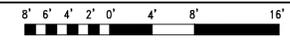
GENERAL NOTES	
1.	FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2.	DO NOT SCALE DRAWINGS.
3.	REFER TO DETAILS D1, D2 & D3/AE502 FOR ROOM AND ACCESSIBLE SIGNAGE.
4.	ALL SIGNAGE, REFER TO SPECIFICATION SECTION 10425. EMPLOYEE SIGNAGE FOR SYSTEMS FURNITURE, CONTRACTOR TO COORDINATE WITH OWNER FOR LOCATIONS AND PLACEMENT. PROVIDE MINIMUM QUANTITY 27 FOR BASE BID AND MINIMUM ADDITIONAL QUANTITY 8 FOR ADD-ALTERNATE.
5.	WALL TYPE SHOWN TO CARRY ACROSS DOOR & WINDOW HEADS, AND OPENINGS, UNLESS NOTED OTHERWISE.

* INDICATES AN ITEM OR SYSTEM THAT IS PART OF BASE BID ONLY AND WILL NOT BE USED IF ADD ALTERNATE #1 IS INCLUDED IN THE CONTRACT FOR CONSTRUCTION.

A2 | LEVEL TWO WALL TYPES & FINISH PLAN - BASE BID

AE103 REF.

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



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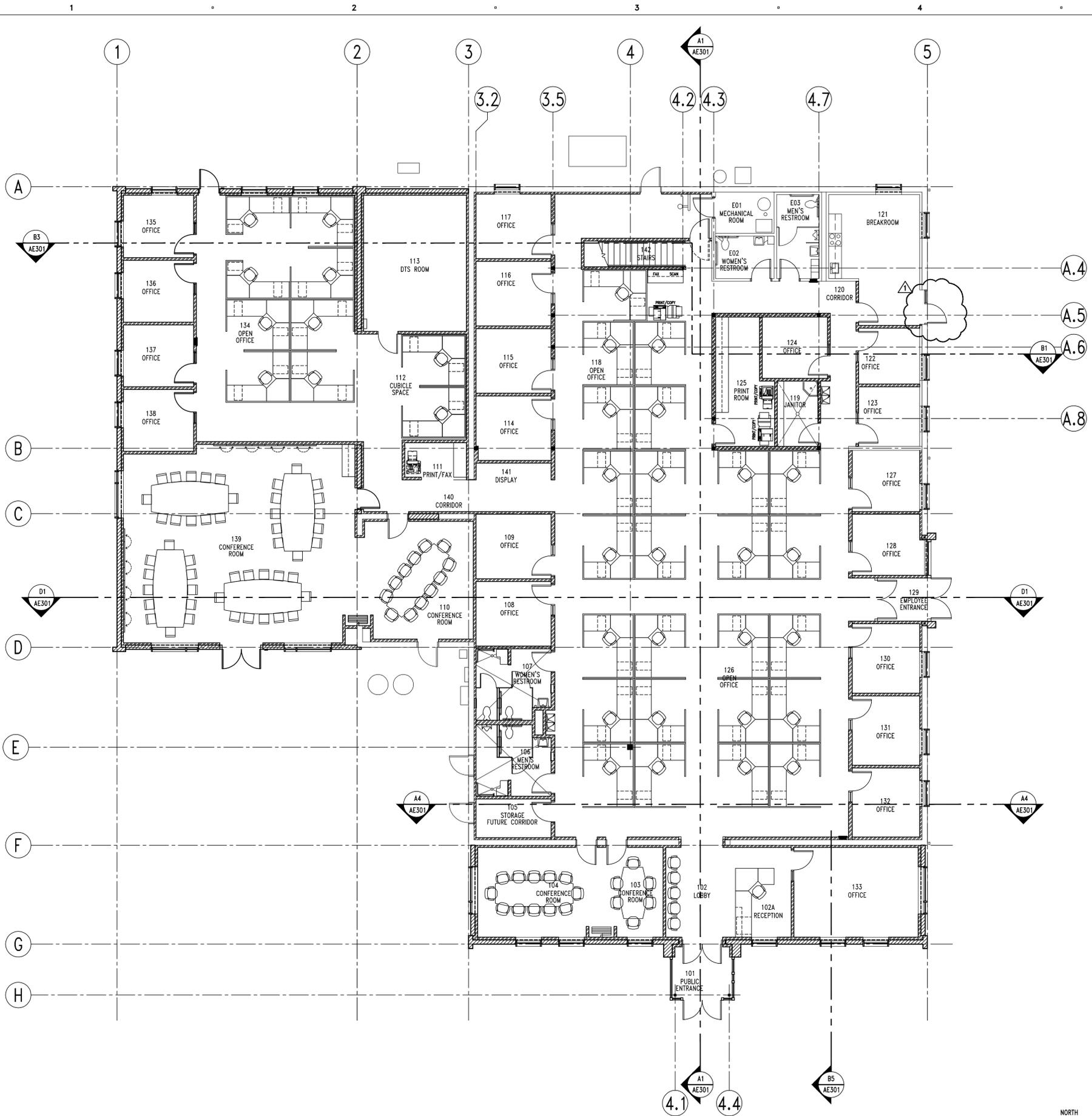
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MARK	DATE	DESCRIPTION
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		DFCM CONTRACT NO: 10745
		ARCHIPLEX PROJECT NO: 1007.0
		DRAWN BY: A. PHILLIPS
		CHECKED BY: R. STANISLAW
		SCALE: AS SHOWN
		DATE: AUGUST 16, 201

SHEET TITLE

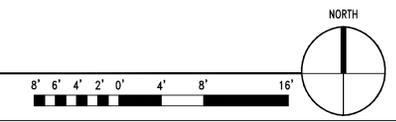
LEVEL TWO WALL TYPES & FINISH PLAN

AE104



A1 | FURNITURE PLAN (FOR REFERENCE ONLY)

AE105 REF. SCALE: 1/8" = 1'-0"



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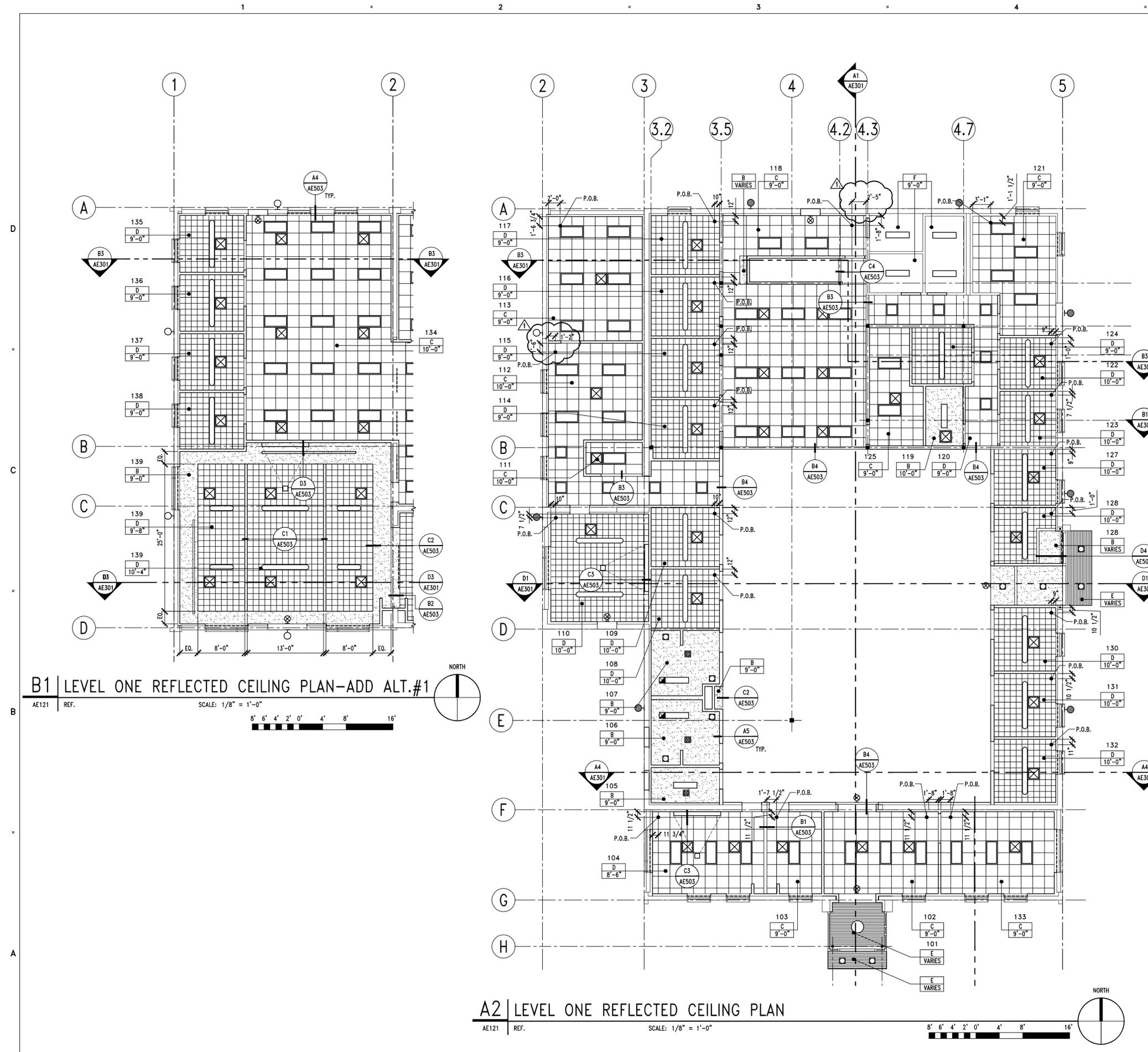
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DATE:	AUGUST 16, 2010	

SHEET TITLE

**FURNITURE PLAN
(FOR REFERENCE ONLY)**

AE105



GENERAL NOTES

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
- CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE NOTES FOR ADDITIONAL CEILING FINISH INFORMATION.
- SEE DETAILS A1, A2 & A3/AE503 FOR SEISMIC BRACING.
- POINT OF BEGINNING (P.O.B.) IS TO DENOTE WHERE THE GRID SHOULD START, AS TO CREATE EVEN TILES ON ALL SIDES OF ROOM.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK BETWEEN TRADES AND COORDINATION OF CONTRACT DOCUMENTS BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND OTHER DISCIPLINES INCLUDED IN THE CONTRACTS DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF SUB-CONTRACTORS TO REVIEW/COORDINATE WITH OTHER TRADES.

REFLECTED CEILING PLAN LEGEND

ROOM # — 131
TYPE — E
ELEVATION — VARIES
A.F.F.

TYPE A	EXPOSED STRUCTURE — PAINTED
TYPE B	5/8" GYPSUM BOARD — PAINTED
TYPE C	2'x4' LAY-IN CEILING GRID SYSTEM WITH 2' x 2' SCORED ACOUSTICAL PANELS
TYPE D	3/4" G.B. WITH 12"x12" SURFACE MOUNTED ACOUSTICAL CEILING TILE
TYPE E	GALVANIZED CORRUGATED METAL PANEL
TYPE F	EXISTING TO REMAIN — PAINTED

CEILING SYMBOLS

	PAINTED GYP. BD. CEILING
	2' x 4' FLUORESCENT LIGHT FIXTURE, SEE ELECT. DRAWINGS FOR TYPE.
	1' x 4' FLUORESCENT LIGHT FIXTURE
	1' x 8' FLUORESCENT PENDANT LIGHT FIXTURE
	1' x 4' FLUORESCENT PENDANT FIXTURE
	RETURN AIR GRILLE — HORIZONTAL (SEE MECH. DRAWINGS)
	SUPPLY AIR GRILLE — HORIZONTAL (SEE MECH. DRAWINGS)
	EXHAUST FAN (SEE MECH. DRAWINGS)
	EXIT SIGN
	NEW EXTERIOR WALL MOUNTED LIGHTS
	EXISTING EXTERIOR WALL MOUNTED LIGHTS
	OVERHEAD PROJECTOR & MANUAL PULL SCREEN
	8' DIAMETER HIGH VOLUME LOW SPEED CEILING FAN

B1 | LEVEL ONE REFLECTED CEILING PLAN-ADD ALT.#1
 AE121 REF. SCALE: 1/8" = 1'-0"
 8' 6" 4' 2' 0" 4' 8' 16'

A2 | LEVEL ONE REFLECTED CEILING PLAN
 AE121 REF. SCALE: 1/8" = 1'-0"
 8' 6" 4' 2' 0" 4' 8' 16'

CLIENT

LIPOT
CONNECTING COMMUNITIES

REGION 4 OFFICE REMODEL
 708 SOUTH 100 WEST
 RICHFIELD UTAH 84701

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PROFESSIONAL SEAL

ISSUE

12-9-10	ADDENDUM #1
9-20-10	DFCM REVIEW COMMENTS
8-16-10	DFCM REVIEW SUBMITTAL

MARK DATE DESCRIPTION

DFCM PROJECT NO:	10046900
DFCM CONTRACT NO:	107453
ARCHIPLEX PROJECT NO:	1007.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAV
SCALE:	AS SHOWN
DATE:	AUGUST 16, 2010

SHEET TITLE

LEVEL ONE REFLECTED CEILING PLAN

AE121

GENERAL NOTES

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
- CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE NOTES FOR ADDITIONAL CEILING FINISH INFORMATION.
- SEE DETAILS A1, A2 & A3/AE503 FOR SEISMIC BRACING.
- POINT OF BEGINNING (P.O.B.) IS TO DENOTE WHERE THE GRID SHOULD START, AS TO CREATE EVEN TILES ON ALL SIDES OF ROOM.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK BETWEEN TRADES AND COORDINATION OF CONTRACT DOCUMENTS BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND OTHER DISCIPLINES INCLUDED IN THE CONTRACTS DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF SUB-CONTRACTORS TO REVIEW/COORDINATE WITH OTHER TRADES.

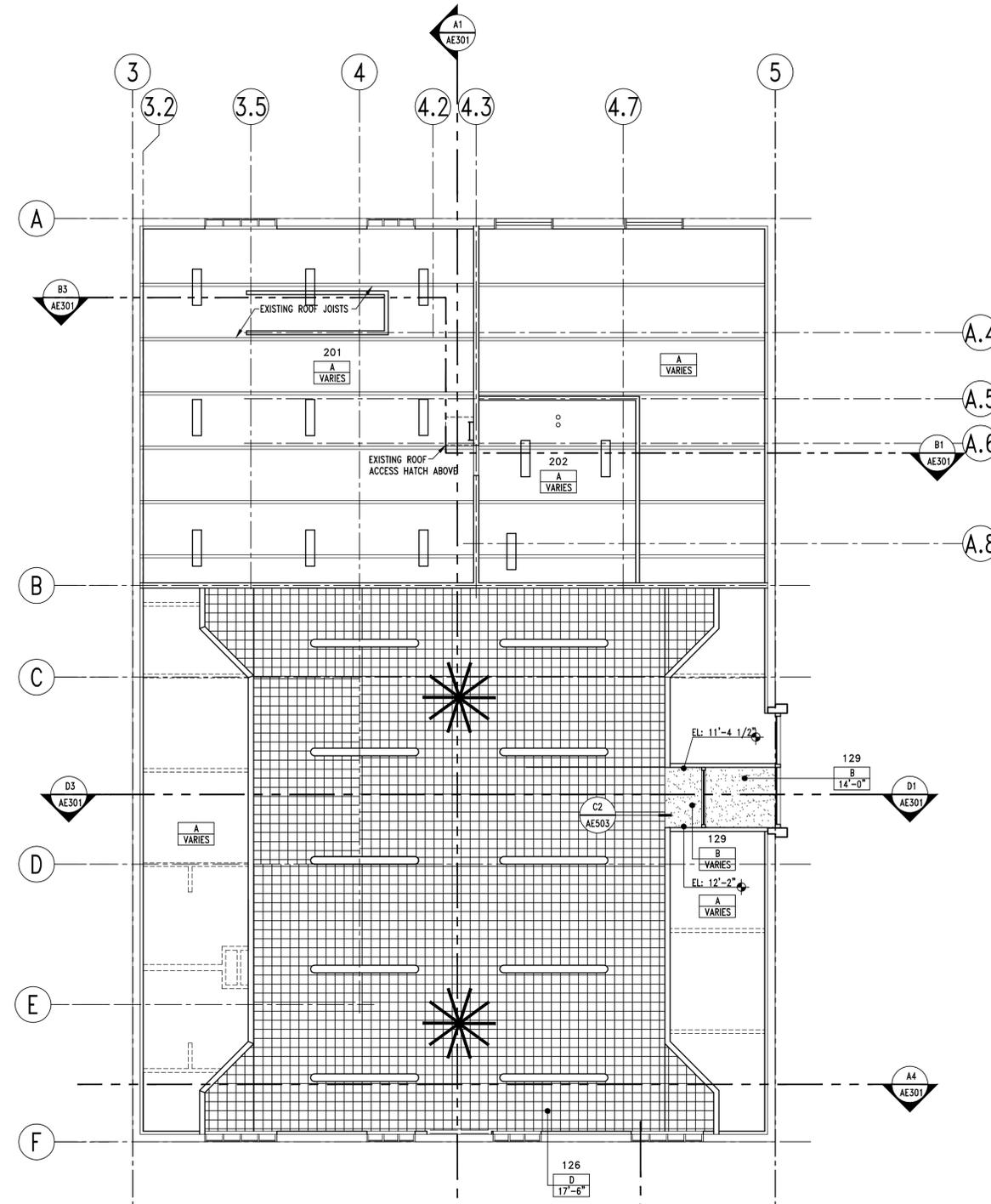
REFLECTED CEILING PLAN LEGEND

TYPE A	EXPOSED STRUCTURE - PAINTED
TYPE B	5/8" GYPSUM BOARD - PAINTED
TYPE C	2'x4' LAY-IN CEILING GRID SYSTEM WITH 2' x 2' SCORED ACOUSTICAL PANELS
TYPE D	3/8" G.B. WITH 12"x12" SURFACE MOUNTED ACOUSTICAL CEILING TILE
TYPE E	GALVANIZED CORRUGATED METAL PANEL
TYPE F	EXISTING TO REMAIN - PAINTED

ROOM # 131
 TYPE E
 ELEVATION - VARIES
 A.F.F.

CEILING SYMBOLS

	PAINTED GYP. BD. CEILING
	2' x 4' FLUORESCENT LIGHT FIXTURE, SEE ELECT. DRAWINGS FOR TYPE.
	1' x 4' FLUORESCENT LIGHT FIXTURE
	1' x 8' FLUORESCENT PENDANT LIGHT FIXTURE
	1' x 4' FLUORESCENT PENDANT FIXTURE
	RETURN AIR GRILLE - HORIZONTAL (SEE MECH. DRAWINGS)
	SUPPLY AIR GRILLE - HORIZONTAL (SEE MECH. DRAWINGS)
	EXHAUST FAN (SEE MECH. DRAWINGS)
	EXIT SIGN
	NEW EXTERIOR WALL MOUNTED LIGHTS
	EXISTING EXTERIOR WALL MOUNTED LIGHTS
	OVERHEAD PROJECTOR & MANUAL PULL SCREEN
	8' DIAMETER HIGH VOLUME LOW SPEED CEILING FAN

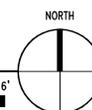


A2 | LEVEL TWO REFLECTED CEILING PLAN

AE122 REF.

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

8' 6' 4' 2' 0' 4' 8' 16'



CLIENT



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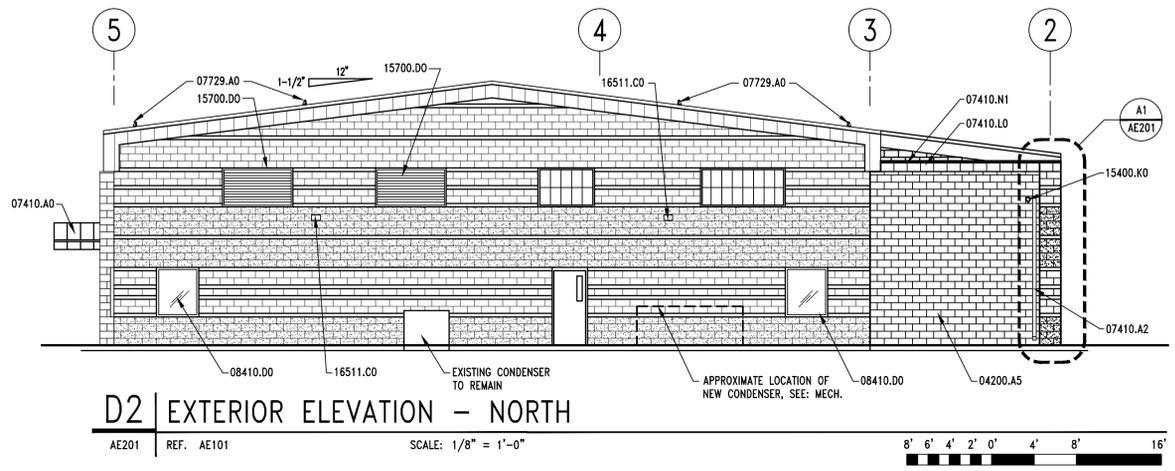
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DFCM PROJECT NO:	1004690	
DFCM CONTRACT NO:	10745	
ARCHIPLEX PROJECT NO:	1007.0	
DRAWN BY:	A. PHILLIP	
CHECKED BY:	R. STANISLAW	
SCALE:	AS SHOWN	
DATE:	AUGUST 16, 201	

SHEET TITLE

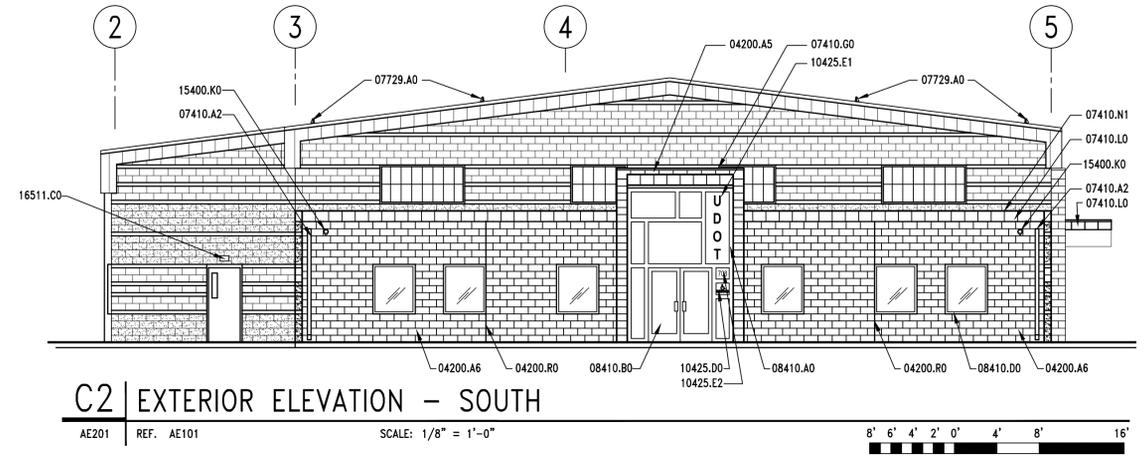
LEVEL TWO REFLECTED CEILING PLAN

AE122



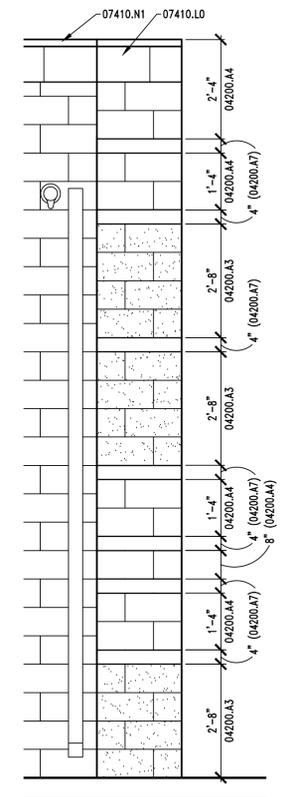
D2 | EXTERIOR ELEVATION - NORTH

AE201 REF. AE101 SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0' 4' 8' 16'



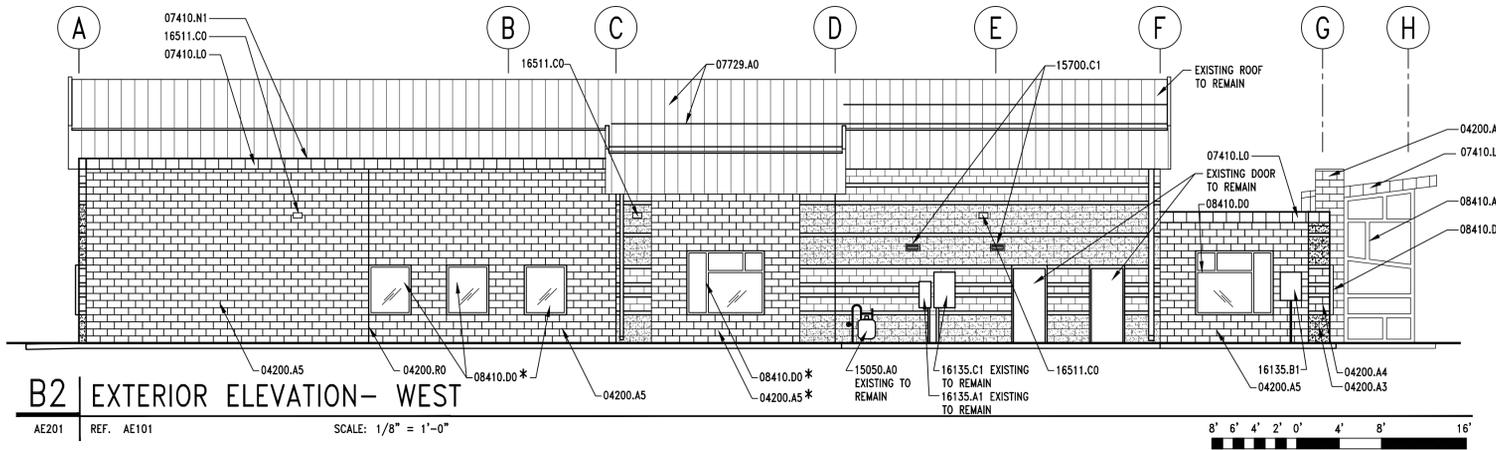
C2 | EXTERIOR ELEVATION - SOUTH

AE201 REF. AE101 SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0' 4' 8' 16'



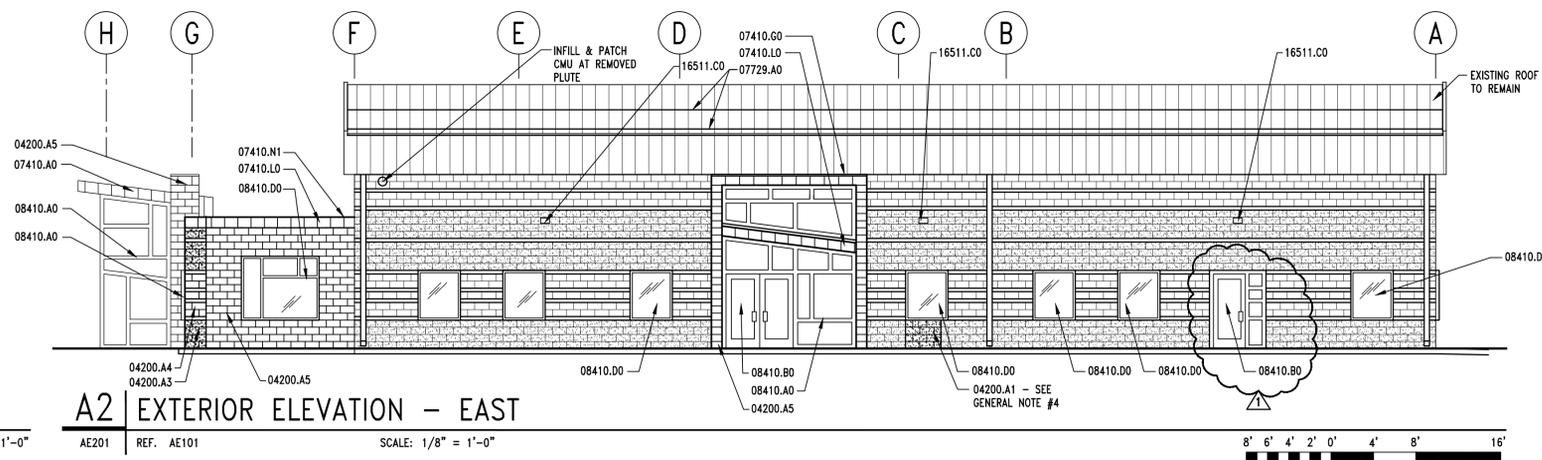
A1 | ELEVATION DETAIL

AE201 REF. AE201 SCALE: 1/2" = 1'-0"



B2 | EXTERIOR ELEVATION - WEST

AE201 REF. AE101 SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0' 4' 8' 16'



A2 | EXTERIOR ELEVATION - EAST

AE201 REF. AE101 SCALE: 1/8" = 1'-0" 8' 6' 4' 2' 0' 4' 8' 16'

KEYNOTES

- 04200.A1 CMU TO MATCH ADJACENT - SALVAGED FROM CMU DEMOLITION
- 04200.A3 8" CMU - SPLIT FACE - COLOR TO MATCH EXISTING
- 04200.A4 8" CMU - HONED - COLOR TO MATCH EXISTING
- 04200.A5 8" CMU - HONED - CUSTOM COLOR TO BE SELECTED BY ARCHITECT
- 04200.A6 8" CMU - HONED - RED TO MATCH EXISTING
- 04200.A7 4" CMU - HONED - COLOR TO MATCH EXISTING
- 04200.R0 MASONRY CONTROL JOINT
- 07410.A0 STANDING SEAM METAL ROOF
- 07410.A1 RAIN GUTTER
- 07410.A2 DOWNSPOUT
- 07410.G0 FLASHING
- 07410.L0 METAL FASCIA - TO MATCH EXISTING STYLE & COLOR
- 07410.N1 PARAPET CAP FLASHING
- 07729.A0 STANDING SEAM METAL ROOF 2-PIPE SNOWGUARD SYSTEM
- 08111.B0 HOLLOW METAL DOOR
- 08410.A0 ALUMINUM STOREFRONT FRAME
- 08410.B0 ALUMINUM DOOR
- 08410.D0 ALUMINUM WINDOW
- 10425.D0 ADA COMPLIANT ENTRANCE SIGN
- 10425.E1 VINYL SIGNAGE - UDOT LOGO
- 10425.E2 VINYL SIGNAGE - UDOT BUILDING ADDRESS - VERIFY EXACT NUMBER WITH OWNER
- 15050.A0 GAS METER - SEE MECHANICAL
- 15400.K0 LAMB'S TONGUE AT OVERFLOW DRAIN
- 15700.C1 EXHAUST FAN VENT - SEE MECHANICAL
- 15700.D0 LOUVER WITH BIRD SCREEN - SEE MECHANICAL
- 16135.A1 ELECTRICAL METER - SEE ELECTRICAL
- 16135.B1 EMERGENCY DISCONNECT - SEE ELECTRICAL
- 16135.C1 ELECTRICAL PANEL - SEE ELECTRICAL
- 16511.C0 EXTERIOR WALL MOUNTED LIGHT

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. PROVIDE CLEAR WATER RESISTANT COATING AT ALL CMU WALLS EXISTING AND NEW. SEE SPEC. 07190
4. CONTRACTOR TO PROVIDE SAMPLES OF ALL EXISTING CMU TO ARCHITECT FOR SELECTION OF NEW CMU.
5. KEYNOTES APPLY TO ALL EXTERIOR ELEVATION SHEETS. THEREFORE, NOT ALL KEYNOTES WILL BE FOUND ON THIS SHEET. KEYNOTES FOR BASE BID MAY BE FOUND ON SHEET AE201 - KEYNOTES FOR ADD ALTERNATE #1 MAY BE FOUND ON SHEET AE202.
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EXTERIOR COLOR SCHEDULE

- METAL ROOF: MATCH EXISTING COLOR, FINISH & PROFILE
- METAL FASCIA, SOFFIT & FLASHING: MATCH EXISTING COLOR, FINISH AND PROFILE
- DOWN SPOUTS: MATCH EXISTING COLOR, FINISH AND PROFILE
- HOLLOW METAL DOORS & FRAMES: MATCH EXISTING COLOR AND FINISH
- ALUMINUM STOREFRONT DOORS & FRAMES: CLEAR ANODIZED WITH SATIN FINISH
- ALUMINUM WINDOW FRAMES: CLEAR ANODIZED WITH SATIN FINISH
- GLAZING: VARIES - SEE AE602 AND SPECIFICATIONS
- EXHAUST VENTS & LOUVERS: PRE-FINISHED SILVER ANODIZED
- EXTERIOR LIGHT FIXTURES: PRE-FINISHED SILVER

LEGEND

* INDICATES AN ITEM OR SYSTEM THAT IS PART OF BASE BID ONLY AND WILL NOT BE USED IF ADD ALTERNATE #1 IS INCLUDED IN THE CONTRACT FOR CONSTRUCTION



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▲	12-9-10	ADDENDUM #1
	9-20-10	DFCM REVIEW COMMENTS
	8-16-10	DFCM REVIEW SUBMITTAL

MARK DATE DESCRIPTION

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DFCM CONTRACT NO:	10745
ARCHIPLEX PROJECT NO:	1007.0
DRAWN BY:	A. PHILLIP
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	AUGUST 16, 2011

SHEET TITLE

EXTERIOR ELEVATIONS

AE201

KEYNOTES

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- 04200.A3 8" CMU - SPLIT FACE - COLOR TO MATCH EXISTING
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- 16135.C1 ELECTRICAL PANEL - SEE ELECTRICAL
- 16511.C0 EXTERIOR WALL MOUNTED LIGHT

GENERAL NOTES

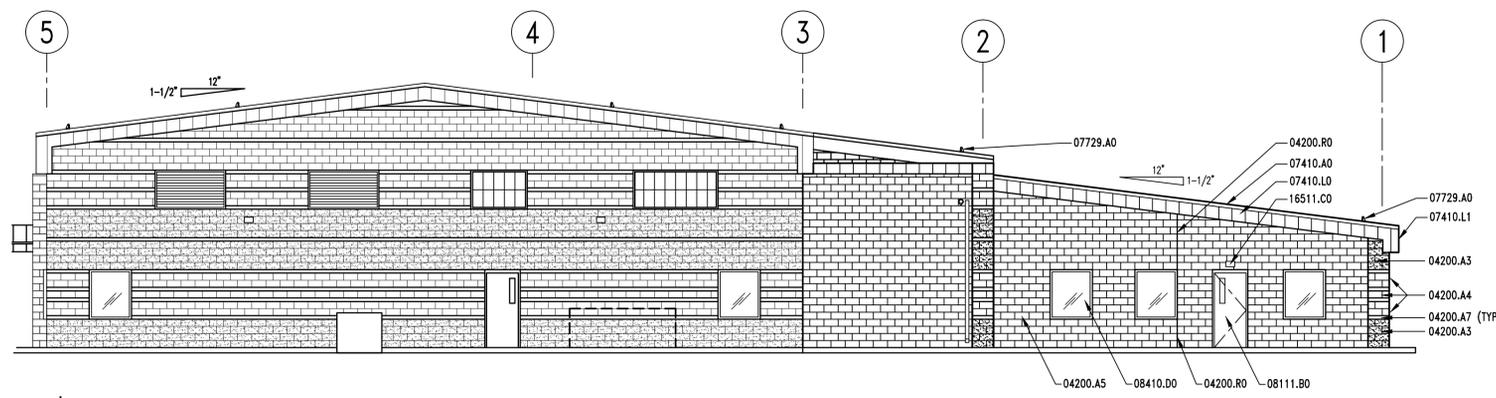
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- GLAZING: VARIES - SEE AE602 AND SPECIFICATIONS
- EXHAUST VENTS & LOUVERS: PRE-FINISHED SILVER ANODIZED
- EXTERIOR LIGHT FIXTURES: PRE-FINISHED SILVER

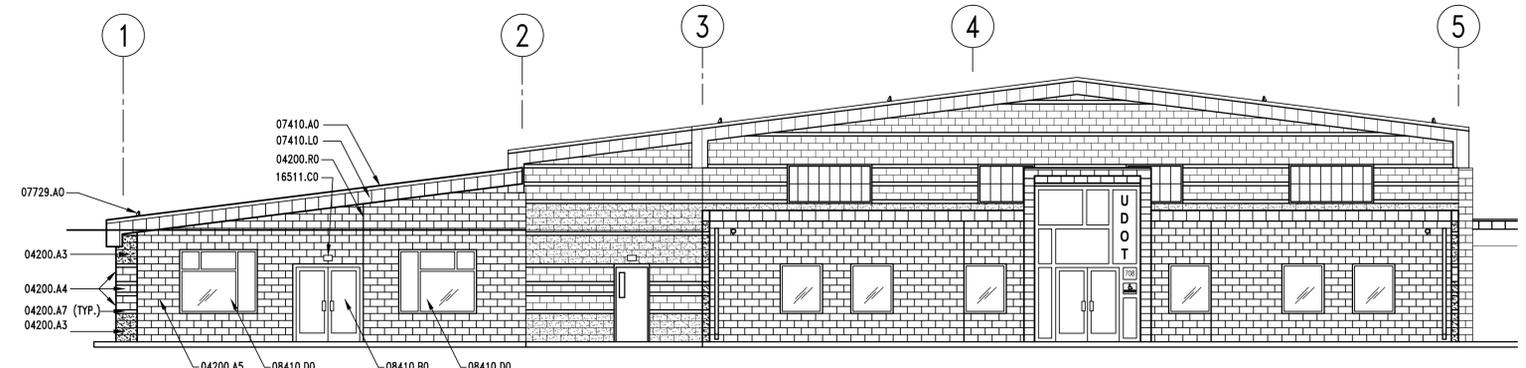
LEGEND

* INDICATES AN ITEM OR SYSTEM THAT IS PART OF BASE BID ONLY AND WILL NOT BE USED IF ADD ALTERNATE #1 IS INCLUDED IN THE CONTRACT FOR CONSTRUCTION



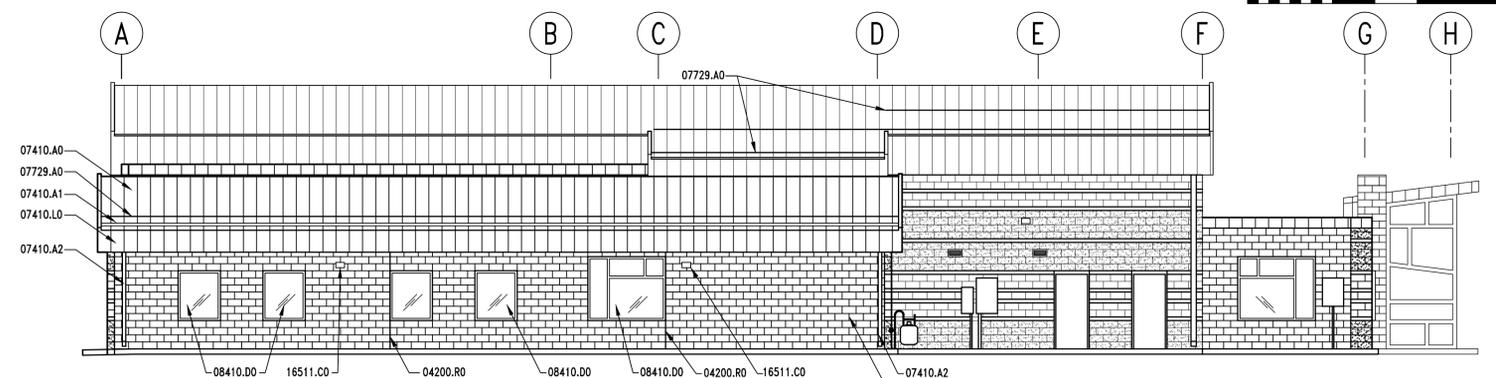
C2 | ADD ALTERNATE EXTERIOR ELEVATION - NORTH

AE202 REF. AE101 SCALE: 1/8" = 1'-0"



B2 | ADD ALTERNATE EXTERIOR ELEVATION - SOUTH

AE202 REF. AE101 SCALE: 1/8" = 1'-0"



A2 | ADD ALTERNATE EXTERIOR ELEVATION- WEST

AE202 REF. AE101 SCALE: 1/8" = 1'-0"

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NO.	DATE	DESCRIPTION
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9-20-10		DFCM REVIEW COMMENTS
8-16-10		DFCM REVIEW SUBMITTAL

MARK DATE DESCRIPTION

MARK	DATE	DESCRIPTION
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DFCM CONTRACT NO:		107453
ARCHIPLEX PROJECT NO:		1007.01
DRAWN BY:		A. PHILLIPS
CHECKED BY:		R. STANISLAW
SCALE:		AS SHOWN
DATE:		AUGUST 16, 2010

SHEET TITLE

ADD. ALTERNATE EXTERIOR ELEVATIONS

AE202

KEYNOTES

- 03300.A1 CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL
- 03300.G0 CONCRETE OVER METAL DECK - SEE STRUCTURAL
- 03300.K1 THICKENED SLAB - SEE STRUCTURAL
- 03300.T1 CONCRETE AT STAIR TREAD

- 05120.A0 STEEL BEAM - SEE STRUCTURAL
- 05120.B0 STEEL COLUMN - SEE STRUCTURAL
- 05120.D1 TUBE STEEL COLUMN - SEE STRUCTURAL
- 05500.A1 ANGLE - SEE STRUCTURAL
- 05500.P0 ANCHOR BOLTS(S)
- 05510.E1 NON SKID SURFACE AT NOSING
- 05510.F1 STEEL STRINGER - (SIZE)
- 05510.G1 3/16" STEEL CLOSURE PLATE
- 05510.H1 PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD - (SIZE)
- 05510.J1 METAL PAN STAIR SUPPORT - (SIZE)
- 05510.J2 PAN ANCHORAGE - (SIZE)
- 05521.B4 1 1/2" O.D. PIPE HANDRAIL - PAINTED
- 05521.C2 ESCUTCHEON WITH EASED EDGES (SIZE)
- 05521.D1 PIPE RAIL SUPPORT - PAINTED

- 06105.L2 BLOCKING AS REQUIRED
- 06402.C1 PAINT GRADE WOOD CAP (THICKNESS)

- 09255.A1 GYPSUM BOARD (THICKNESS)

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
4. ALL COMPONENTS OF STAIRS ARE TO BE PAINTED. TREADS, HANDRAILS, STRINGERS, ETC.
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK BETWEEN TRADES AND COORDINATION OF CONTRACT DOCUMENTS BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND OTHER DISCIPLINES INCLUDED IN THE CONTRACTS DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF SUB-CONTRACTORS TO REVIEW/COORDINATE WITH OTHER TRADES.

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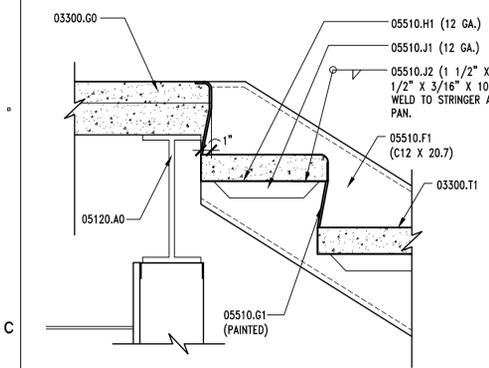
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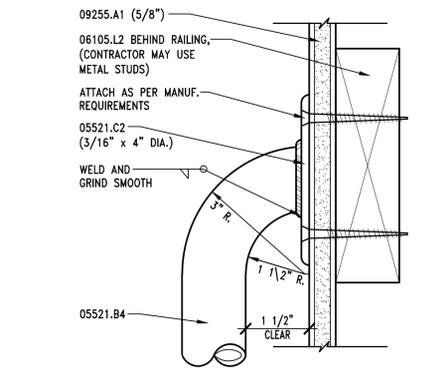
SHEET TITLE

**STAIR PLAN,
SECTION
AND DETAILS**

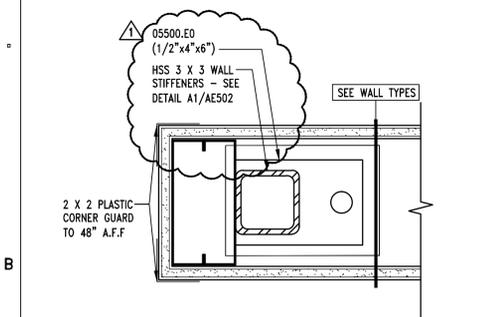
AE402



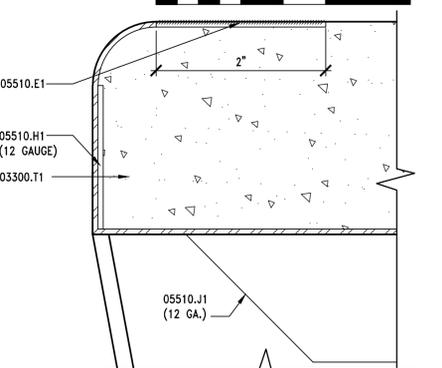
C1 | STAIR LANDING DETAIL
AE402 REF. AE402 SCALE: 1 1/2" = 1'-0"
8" 6" 4" 2" 0 4" 8" 16"



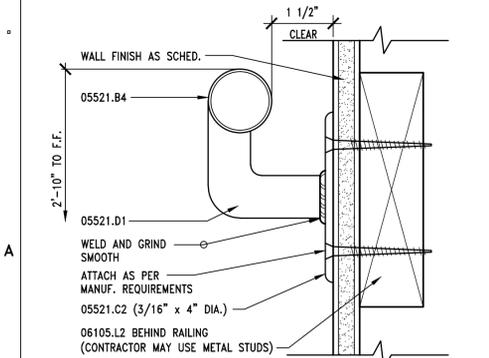
C2 | HANDRAIL ATTACHMENT DTL.
AE402 REF. AE402 SCALE: 6" = 1'-0"
2" 1" 0 1" 2" 4"



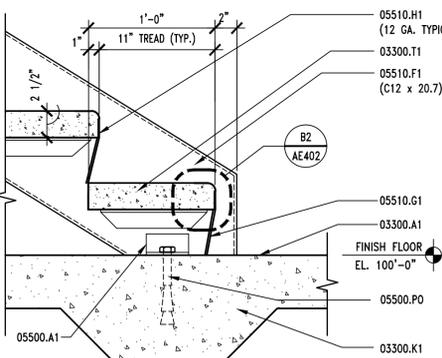
B1 | CORNER GUARD DTL.
AE402 REF. AE402 SCALE: 3" = 1'-0"
4" 3" 2" 1" 0 2" 4" 8"



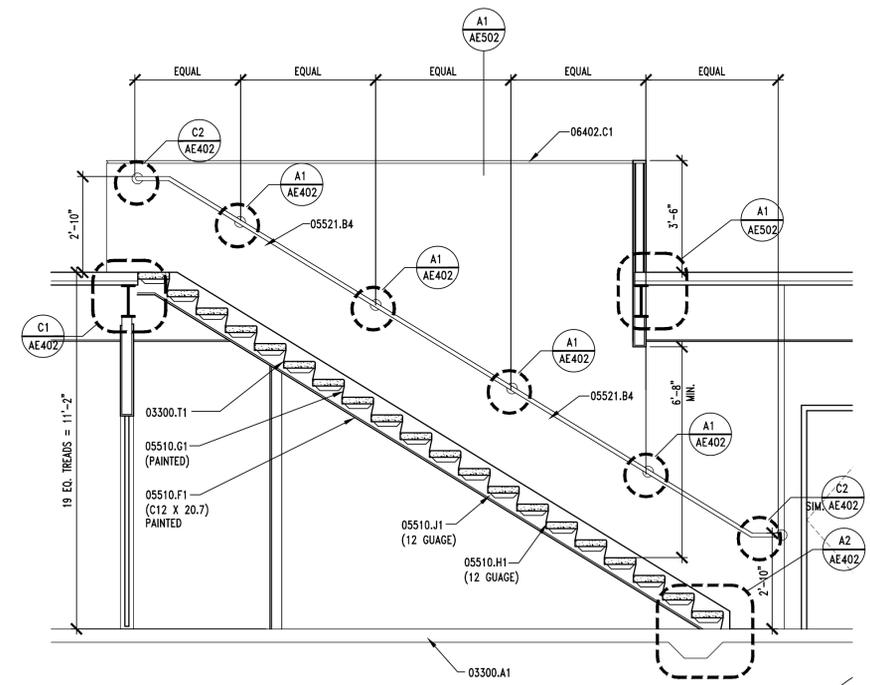
B2 | STAIR NOSING DETAIL
AE402 REF. AE402 SCALE: NONE



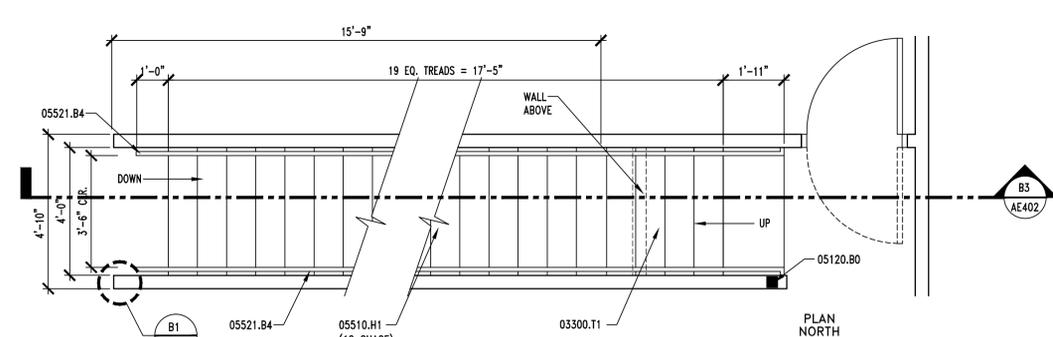
A1 | HANDRAIL ATTACHMENT DTL.
AE402 REF. AE402 SCALE: 6" = 1'-0"
2" 1" 0 1" 2" 4"



A2 | STAIR BASE DETAIL
AE402 REF. AE402 SCALE: 1 1/2" = 1'-0"
8" 6" 4" 2" 0 4" 8" 1'-4"



B3 | STAIR SECTION & HANDRAIL ELEVATION
AE402 REF. AE402 SCALE: 3/8" = 1'-0"
12" 6" 0 1' 2' 4"



A3 | ENLARGED STAIR PLAN
AE402 REF. AE101 SCALE: 3/8" = 1'-0"
12" 6" 0 1' 2' 4"

GENERAL NOTES

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- DO NOT SCALE DRAWINGS.
- SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK BETWEEN TRADES AND COORDINATION OF CONTRACT DOCUMENTS BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND OTHER DISCIPLINES INCLUDED IN THE CONTRACTS DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF SUB-CONTRACTORS TO REVIEW/COORDINATE WITH OTHER TRADES.

KEYNOTES

- 02200.A0 COMPACTED FILL
- 02200.B0 GRAVEL BASE
- 03300.H0 FOUNDATION WALL - SEE STRUCTURAL
- 03300.M2 UNDER-SLAB VAPOR BARRIER
- 03300.R0 3/4" CHAMFER
- 04200.A0 CMU
- 05120.C0 TUBE STEEL BEAM - SEE STRUCTURAL
- 05310.A1 METAL DECK - SEE STRUCTURAL
- 06105.A0 PRESSURE TREATED WOOD NAILER
- 06105.O2 SHIM AS REQUIRED
- 06105.V1 EXTERIOR GRADE SHEATHING - PLYWOOD (THICKNESS)
- 07210.A1 BATT INSULATION (R-VALUE)
- 07210.A3 VINYL-FACED BATT INSULATION (R-VALUE) MECHANICALLY FASTENED TO METAL DECK ABOVE - TAPE EDGES CONTINUOUS
- 07210.B0 RIGID INSULATION
- 07210.B1 RIGID INSULATION (R-VALUE)
- 07210.D0 VAPOR BARRIER
- 07210.E0 FOUNDATION WALL INSULATION (THICKNESS)
- 07410.A0 STANDING SEAM METAL ROOF
- 07410.B1 METAL RIGLET
- 07410.G0 FLASHING
- 07410.G5 FLASHING WITH DRIP EDGE
- 07410.L0 METAL FASCIA TO MATCH EXISTING STYLE & COLOR
- 07410.L2 METAL SOFFIT
- 07410.M1 ICE & WATER SHIELD
- 07530.A0 EPDM ROOFING MEMBRANE
- 07530.A2 UNCURED EPDM FLASHING
- 07621.A2 18 GA. X CONT. GALVANIZED HOLD DOWN CLIP
- 07621.H1 24 GA. GALVANIZED METAL COLLAR
- 07621.F1 GALVANIZED CORRUGATED METAL PANEL
- 07901.A0 CONT. SEALANT
- 07901.A1 CONT. SEALANT BOTH SIDES
- 08410.A0 ALUMINUM STOREFRONT FRAME
- 08410.B0 ALUMINUM DOOR
- 08410.C0 ALUMINUM BREAK METAL - SHAPE TO MATCH FRAME
- 08800.A0 GLAZING AS SCHEDULED
- 09255.A1 GYPSUM BOARD (THICKNESS)
- 09255.H1 METAL STUDS (SIZE, SPACING)
- 09255.J0 METAL RUNNER
- 09255.K0 DOUBLE STUDS
- 09255.M3 METAL J-MOLD
- 15050.A3 PIPE INSULATION
- 15050.C1 DRAIN PIPE - SEE MECHANICAL
- 15050.D0 VAPOR BARRIER
- 15400.J1 CAST IRON DOME - PRIMARY DRAIN
- 15400.J2 CAST IRON DOME - SECONDARY DRAIN
- 15400.J3 DRAIN CLAMP
- 15400.J4 2" EXTERNAL WATER DAM

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ISSUE

12-9-10	ADDENDUM #1
9-20-10	DFCM REVIEW COMMENTS
8-16-10	DFCM REVIEW SUBMITTAL

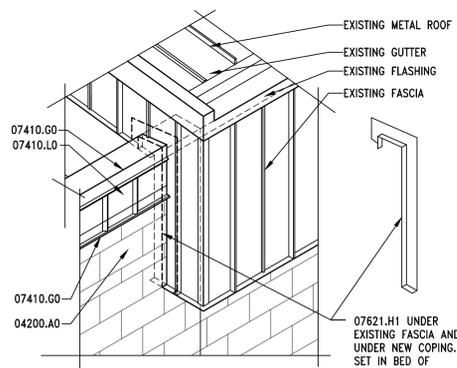
MARK DATE DESCRIPTION

DFCM PROJECT NO:	10046900
DFCM CONTRACT NO:	107453
ARCHIPLEX PROJECT NO:	1007.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	VARIES
DATE:	AUGUST 16, 2010

SHEET TITLE

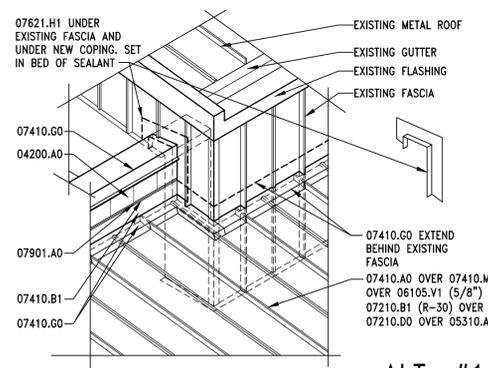
EXTERIOR DETAILS

AE504



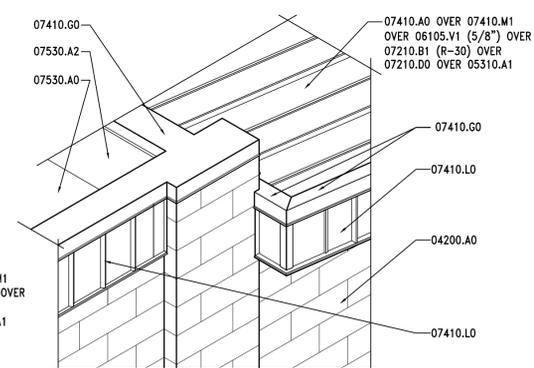
C1 ISO DETAIL AT NEW PARAPET

AE504 REF. AE141 SCALE: 1/2" = 1'-0"
12" 9" 6" 3" 0 6" 1' 2'



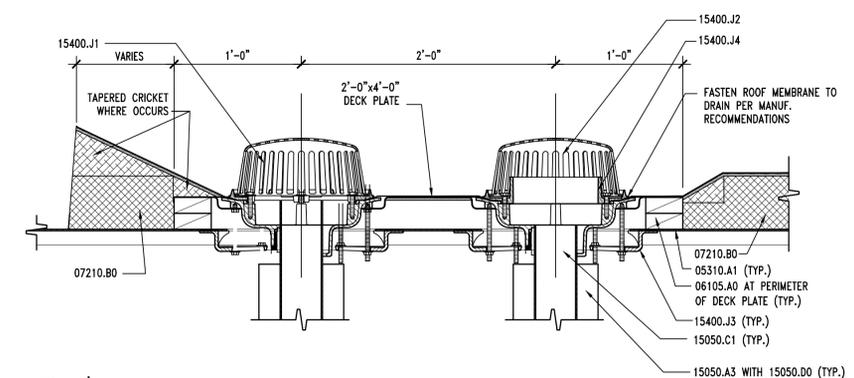
C2 ISO DETAIL AT NEW PARAPET

AE504 REF. AE141 SCALE: 1/2" = 1'-0"
12" 9" 6" 3" 0 6" 1' 2'



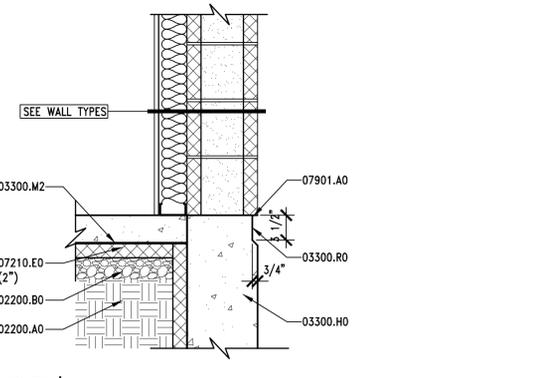
C3 ISO DETAIL AT NEW PARAPET

AE504 REF. AE141 SCALE: 1/2" = 1'-0"
12" 9" 6" 3" 0 6" 1' 2'



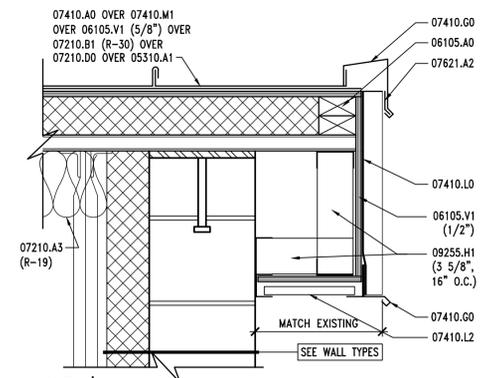
B1 ROOF DRAIN DETAIL

AE504 REF. AE141 SCALE: 1 1/2" = 1'-0"



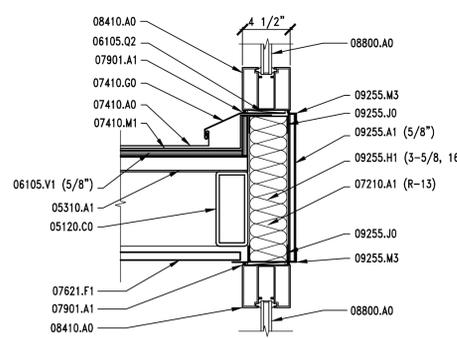
B3 FOUNDATION WALL

AE504 REF. AE311, AE312 SCALE: 1" = 1'-0"
12" 9" 6" 3" 0 6" 1' 2'



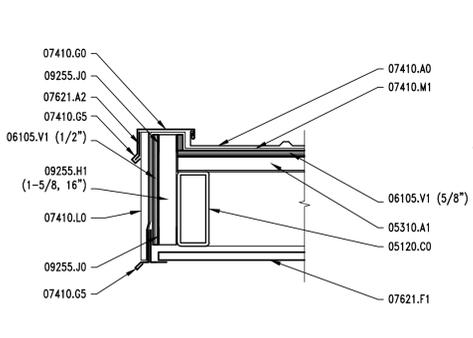
B5 FASCIA DETAIL

AE504 REF. AE141 SCALE: 1-1/2" = 1'-0"



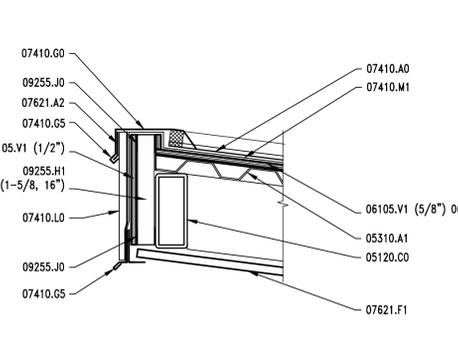
A1 WINDOW SILL DETAIL

AE504 REF. AE313, AE141 SCALE: 1-1/2" = 1'-0"



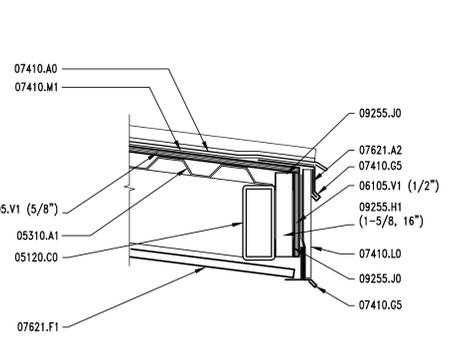
A2 CANOPY FLASHING DETAIL

AE504 REF. AE141 SCALE: 1-1/2" = 1'-0"



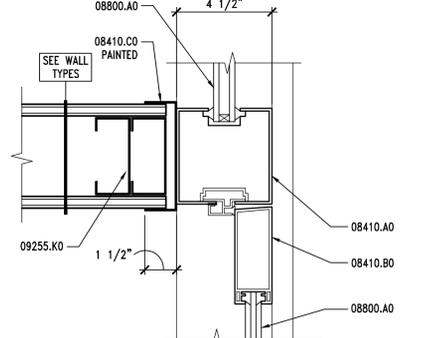
A3 CANOPY FLASHING DETAIL

AE504 REF. AE141 SCALE: 1-1/2" = 1'-0"



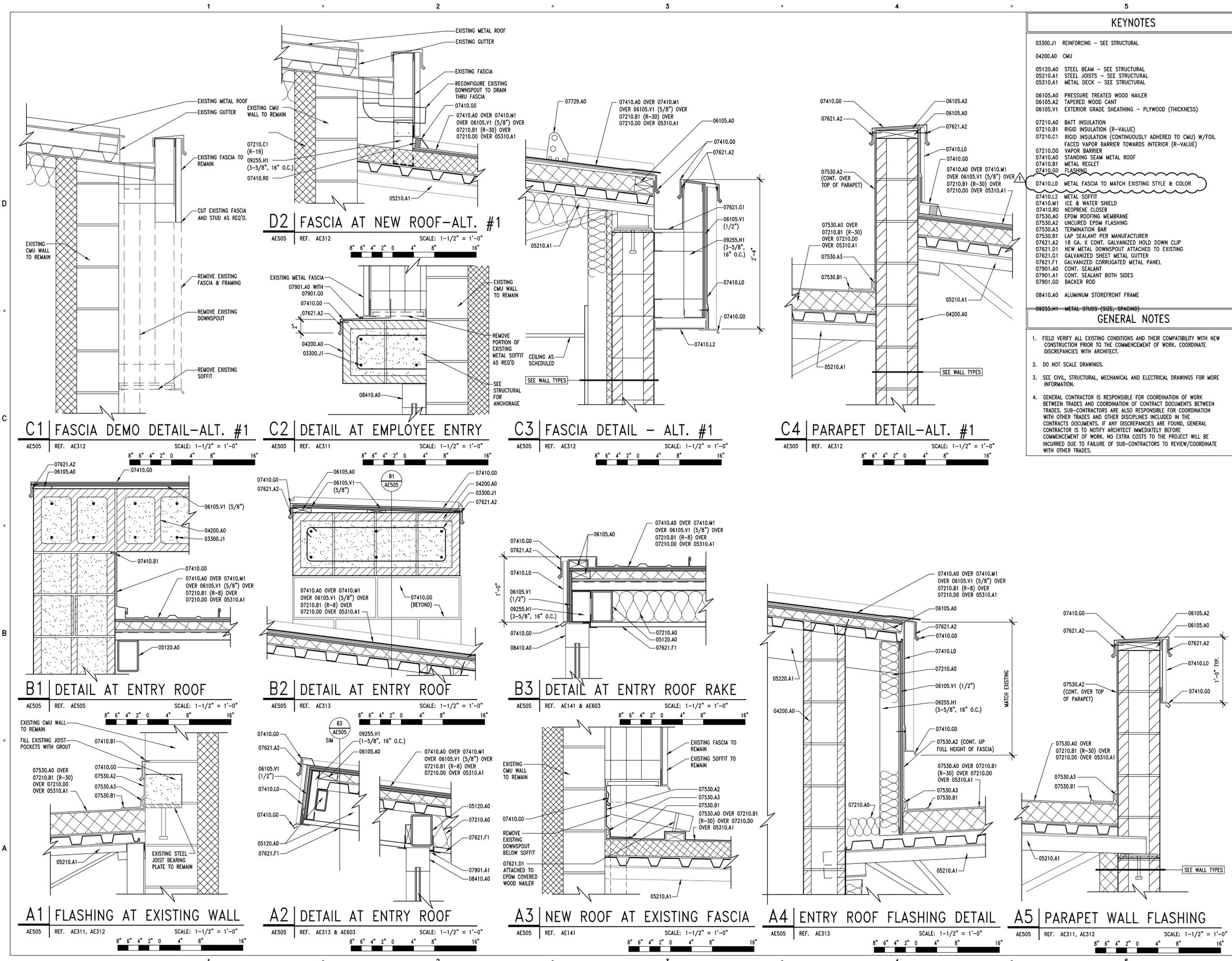
A4 CANOPY FLASHING DETAIL

AE504 REF. AE141 SCALE: 1-1/2" = 1'-0"



A5 WINDOW DETAIL

AE504 REF. AE403 SCALE: 3" = 1'-0"



- ### KEYNOTES
- 03300.J1 REINFORCING - SEE STRUCTURAL
 - 04200.A0 CMU
 - 05120.A0 STEEL BEAM - SEE STRUCTURAL
 - 05210.A1 STEEL JOISTS - SEE STRUCTURAL
 - 05310.A1 METAL DECK - SEE STRUCTURAL
 - 06105.A0 PRESSURE TREATED WOOD NAILER
 - 06105.A2 TAPERED WOOD CANT
 - 06105.V1 EXTERIOR GRADE SHEATHING - PLYWOOD (THICKNESS)
 - 07210.A0 BATT INSULATION
 - 07210.B1 RIGID INSULATION (R-VALUE)
 - 07210.C1 RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
 - 07410.A0 STANDING SEAM METAL ROOF
 - 07410.B1 METAL REGLET
 - 07410.G0 FLASHING
 - 07410.L0 METAL FASCIA TO MATCH EXISTING STYLE & COLOR
 - 07410.L2 METAL SOFFIT
 - 07410.M1 ICE & WATER SHIELD
 - 07410.R0 NEOPRENE CLOSER
 - 07530.A0 EPDM ROOFING MEMBRANE
 - 07530.A2 UNCLINED EPDM FLASHING
 - 07530.A3 TERMINATION BAR
 - 07530.B1 LAP SEALANT PER MANUFACTURER
 - 07621.A2 18 GA. X CONT. GALVANIZED HOLD DOWN CLIP
 - 07621.D1 NEW METAL DOWNSPOUT ATTACHED TO EXISTING
 - 07621.G1 GALVANIZED SHEET METAL GUTTER
 - 07621.F1 GALVANIZED CORRUGATED METAL PANEL
 - 07901.A0 CONT. SEALANT
 - 07901.A1 CONT. SEALANT BOTH SIDES
 - 07901.G0 BACKER ROD
 - 08410.A0 ALUMINUM STOREFRONT FRAME
 - 09255.H1 METAL STUDS (SIZE, SPACING)
- ### GENERAL NOTES
1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
 2. DO NOT SCALE DRAWINGS.
 3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK BETWEEN TRADES AND COORDINATION OF CONTRACT DOCUMENTS BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND OTHER DISCIPLINES INCLUDED IN THE CONTRACTS DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND, GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF SUB-CONTRACTORS TO REVIEW/COORDINATE WITH OTHER TRADES.

CLIENT

CONNECTING COMMUNITIES

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RICHFIELD UTAH 84701

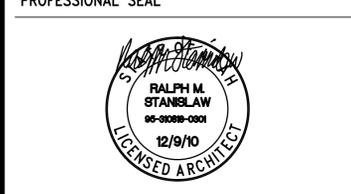
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ISSUE

12-9-10	ADDENDUM #1
9-20-10	DFCM REVIEW COMMENTS
8-16-10	DFCM REVIEW SUBMITTAL

MARK	DATE	DESCRIPTION
DFCM PROJECT NO:	10046900	
DFCM CONTRACT NO:	107453	
ARCHIPLEX PROJECT NO:	1007.01	
DRAWN BY:	A. PHILLIPS	
CHECKED BY:	R. STANISLAW	
SCALE:	1/8"=1'-0"	
DATE:	AUGUST 16, 2010	

SHEET TITLE

EXTERIOR DETAILS

AE505

DOOR SCHEDULE

Table with columns: DOOR #, ROOM #, TYPE, WIDTH, HEIGHT, THICK., MATERIAL, FINISH, GLASS, TYPE, WIDTH, MATERIAL, FINISH, HEAD, JAMB, THRESH., LABEL, HARDWARE, REMARKS. Includes rows D101A through D135A and a second floor doors section.

Legend for door materials: HM = HOLLOW METAL, ST = STEEL, AL = ALUMINUM, P. FIN. = PRE-FINISHED, PT = PAINTED, STN = STAINED, G* = SEE GLAZING SCHEDULE.

ADD ALTERNATE DOOR SCHEDULE

Table with columns: DOOR #, ROOM #, TYPE, WIDTH, HEIGHT, THICK., MATERIAL, FINISH, GLASS, TYPE, WIDTH, MATERIAL, FINISH, HEAD, JAMB, THRESH., LABEL, HARDWARE, REMARKS. Includes rows D134A through D139C.

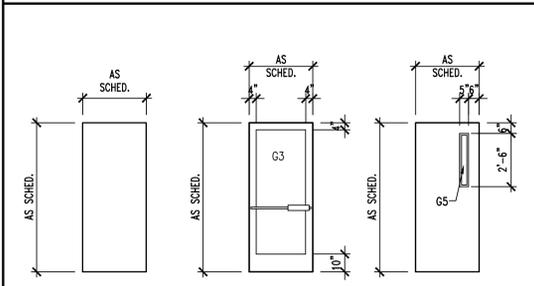
Legend for door materials: HM = HOLLOW METAL, ST = STEEL, AL = ALUMINUM, P. FIN. = PRE-FINISHED, PT = PAINTED, STN = STAINED, G* = SEE GLAZING SCHEDULE.

EXISTING DOOR SCHEDULE

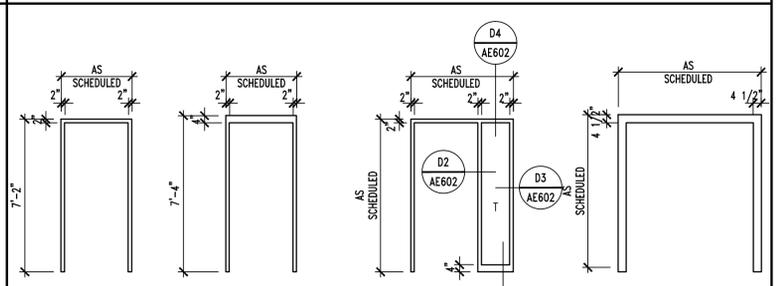
Table with columns: DOOR #, ROOM #, TYPE, WIDTH, HEIGHT, THICK., MATERIAL, FINISH, GLASS, TYPE, WIDTH, MATERIAL, FINISH, HEAD, JAMB, THRESH., LABEL, HARDWARE, REMARKS. Includes rows ED101 through ED118.

Legend for door materials: HM = HOLLOW METAL, ST = STEEL, AL = ALUMINUM, P. FIN. = PRE-FINISHED, PT = PAINTED, STN = STAINED, G* = SEE GLAZING SCHEDULE.

DOOR TYPES



DOOR FRAME TYPES



ROOM FINISH SCHEDULE

Table with columns: ROOM NAME & NUMBER, FLOOR, BASE, WALLS (WEST, EAST, NORTH, SOUTH), DOOR/FRAMES, P. LAM., CEILING, S. SURF., TOILET PART., REMARKS. Includes rows E01 through E03 and 101 through 142.

Table for SECOND FLOOR with columns: FLOOR, ROOM NAME & NUMBER, FLOOR, BASE, WALLS, DOOR/FRAMES, P. LAM., CEILING, S. SURF., TOILET PART., REMARKS. Includes rows 201 and 202.

ROOM FINISH LEGEND

Table with columns: FLOOR, BASE, WALL, PLASTIC LAMINATE, CEILING, DOORS & FRAMES. Lists materials and finishes for various room components.



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ISSUE

Table with columns: MARK, DATE, DESCRIPTION. Includes entries for addendum #1 and DFCM review comments.

Table with columns: MARK, DATE, DESCRIPTION. Includes project information: DFCM PROJECT NO: 1004690, DFCM CONTRACT NO: 10745, ARCHIPLEX PROJECT NO: 1007.0.

Table with columns: MARK, DATE, DESCRIPTION. Includes scale and date: SCALE: 1/8"=1'-0", DATE: AUGUST 16, 201

SHEET TITLE

DOOR SCHEDULE, DOOR AND FRAME TYPES, FINISH SCHEDULE

AE600

12-9-2010	ADDENDUM #1
09-20-2010	DFCM REVIEW COMMENTS
8-16-2010	DFCM REVIEW SUBMITTAL

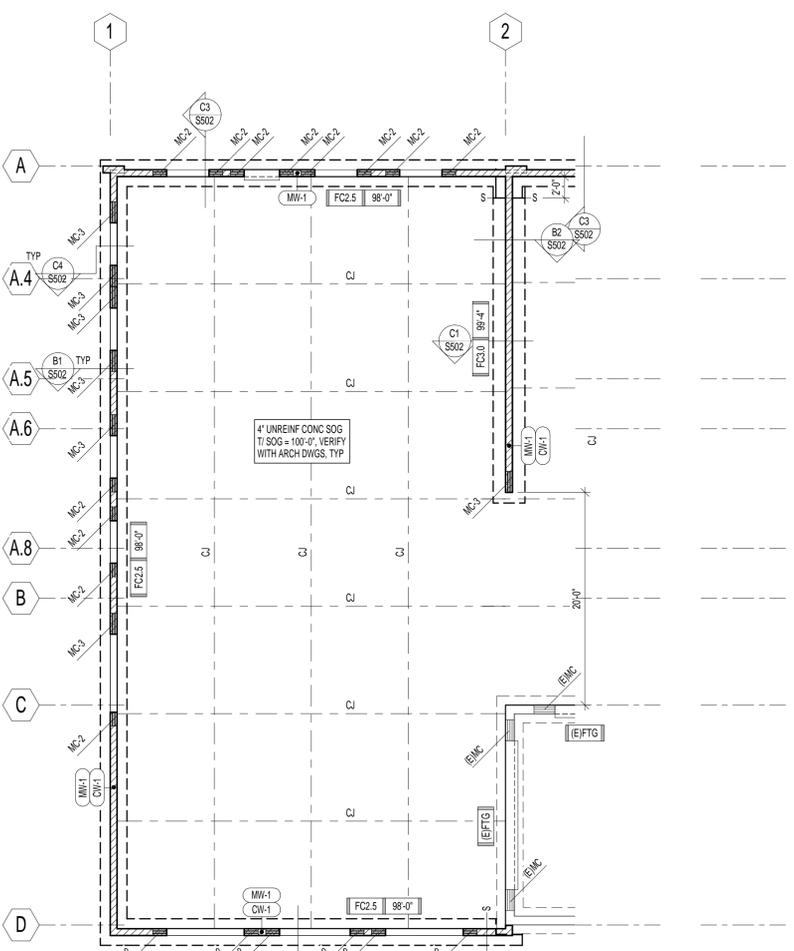
MARK	DATE	DESCRIPTION
DFCM PROJECT NO:		10046900
DFCM CONTRACT NO:		107453
DUNN PROJECT NO:		10069
DRAWN BY:		CLAYTON E. COSTER
DESIGN BY:		KYLE MULLIKIN
REVIEW BY:		PAUL McMULLIN
SCALE:		AS NOTED
DATE:		DECEMBER 9, 2010

FOOTING AND FOUNDATION PLAN NOTES:

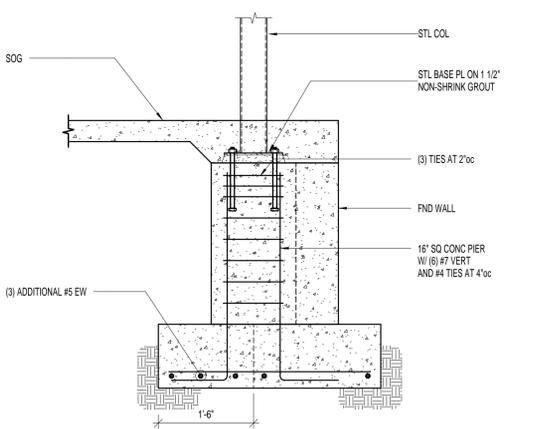
- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC. CENTER ALL SPOT FOOTINGS UNDER COLUMNS AS SHOWN ON PLAN, TYPICAL UNO.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
- SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR BURIED PIPES RUNNING PARALLEL AND PERPENDICULAR TO FOOTINGS.
- SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS IN FLOOR SLABS.
- FOR LOCATIONS WHERE CONTROL JOINTS ARE DISCONTINUOUS, SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501).
- SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN MASONRY WALLS.
- SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR MASONRY CONTROL JOINTS.
- SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR TERMINATION ON HORIZONTAL WALL REINFORCING AT ENDS OF WALLS.

MARKS AND SYMBOLS LEGEND

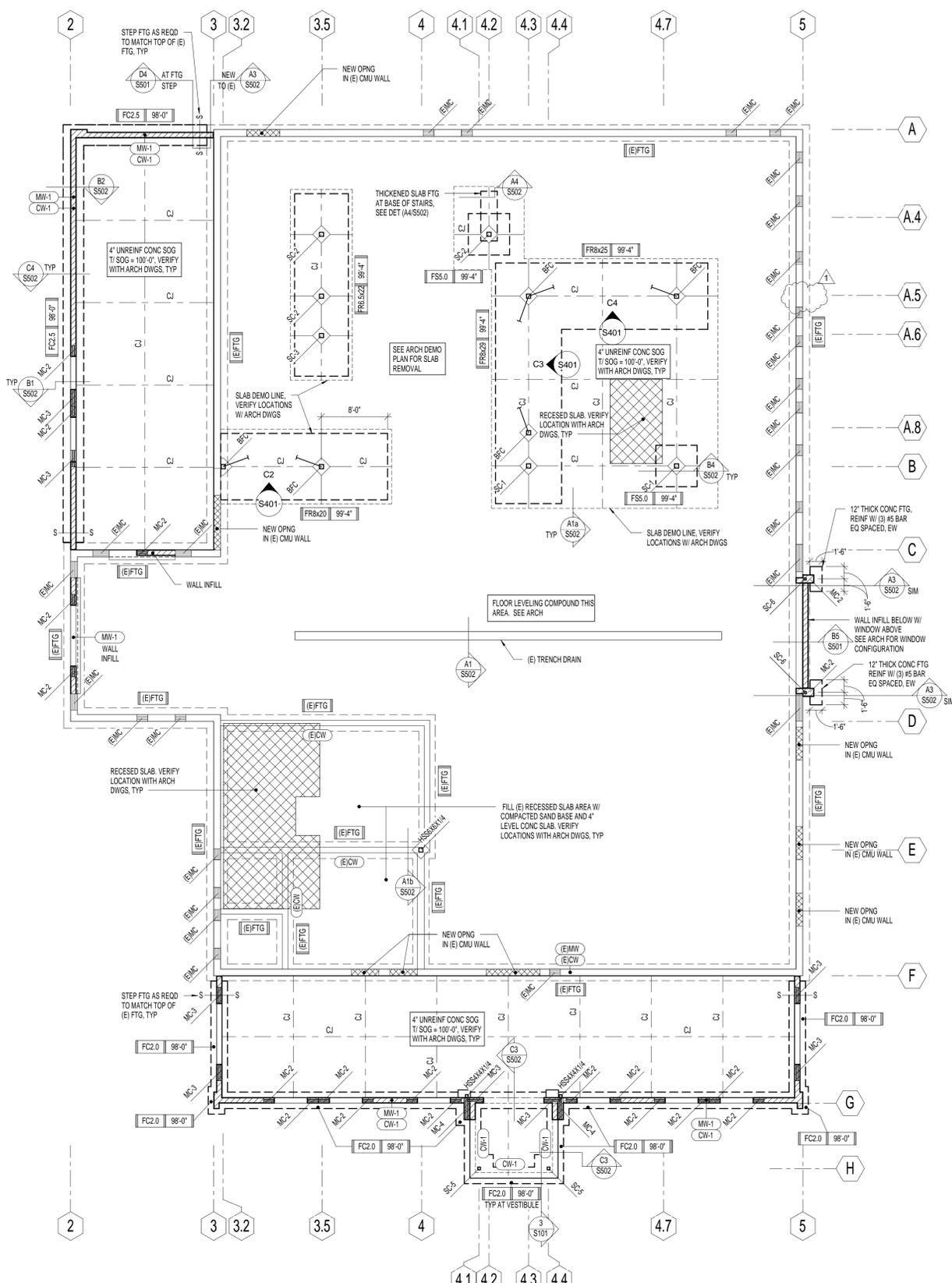
- SECTION MARK SHEET NUMBER
- FTG EL FTG DESIGNATION TOF EL
- DEPRESSED FND WALL POUR SLAB OVER. SEE FTG AND FND DETS ON (S501)
- FTG STEP. SEE FTG AND FND DETS ON (S501)
- CONC WALL. SEE SCHED ON (S301)
- MAS WALL. SEE SCHED ON (S301)
- STL COL. SEE SCHED ON (S301)
- MAS COL. SEE SCHED ON (S301)
- CW-X CONC WALL. SEE SCHED ON (S301)
- MW-X MAS WALL. SEE SCHED ON (S301)
- MW-X CONC WALL BLW AND MAS WALL ABV. SEE SCHED ON (S301)
- MC-X MAS COL. SEE SCHED ON (S301)
- SC-X STL COL. SEE SCHED ON (S301)
- FC-X CONT FTG. SEE SCHED ON (S301)
- FS-X SPOT FTG. SEE SCHED ON (S301)
- FR-X RECTANGULAR FTG. SEE SCHED ON (S301)
- CJ CONTROL JOINT. SEE FTG AND FND DETS ON (S501)
- RECESSED SLAB. SEE ARCH PLANS FOR EXACT LOCATION AND EL



2 LEVEL ONE FOOTING AND FOUNDATION PLAN - ADD ALT. #1
 S101 NO SCALE



3 COLUMN DETAIL AT ENTRY
 S101 NO SCALE



1 LEVEL ONE - FOOTING AND FOUNDATION PLAN
 S101 NO SCALE

DECEMBER 9, 2010 FOR CONSTRUCTION

NOTE: THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 07.23.2010
 DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, I.E. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.



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ISSUE

MARK	DATE	DESCRIPTION
△	12-9-2010	ADDENDUM #1
	09-20-2010	DFCM REVIEW COMMENTS
	8-16-2010	DFCM REVIEW SUBMITTAL

MARK	DATE	DESCRIPTION
		DFCM PROJECT NO: 10046900
		DFCM CONTRACT NO: 107453
		DUNN PROJECT NO: 10069
		DRAWN BY: CLAYTON E. COSTER
		DESIGN BY: KYLE MULLIKIN
		REVIEW BY: PAUL McMULLIN
		SCALE: AS NOTED
		DATE: DECEMBER 9, 2010

SHEET TITLE

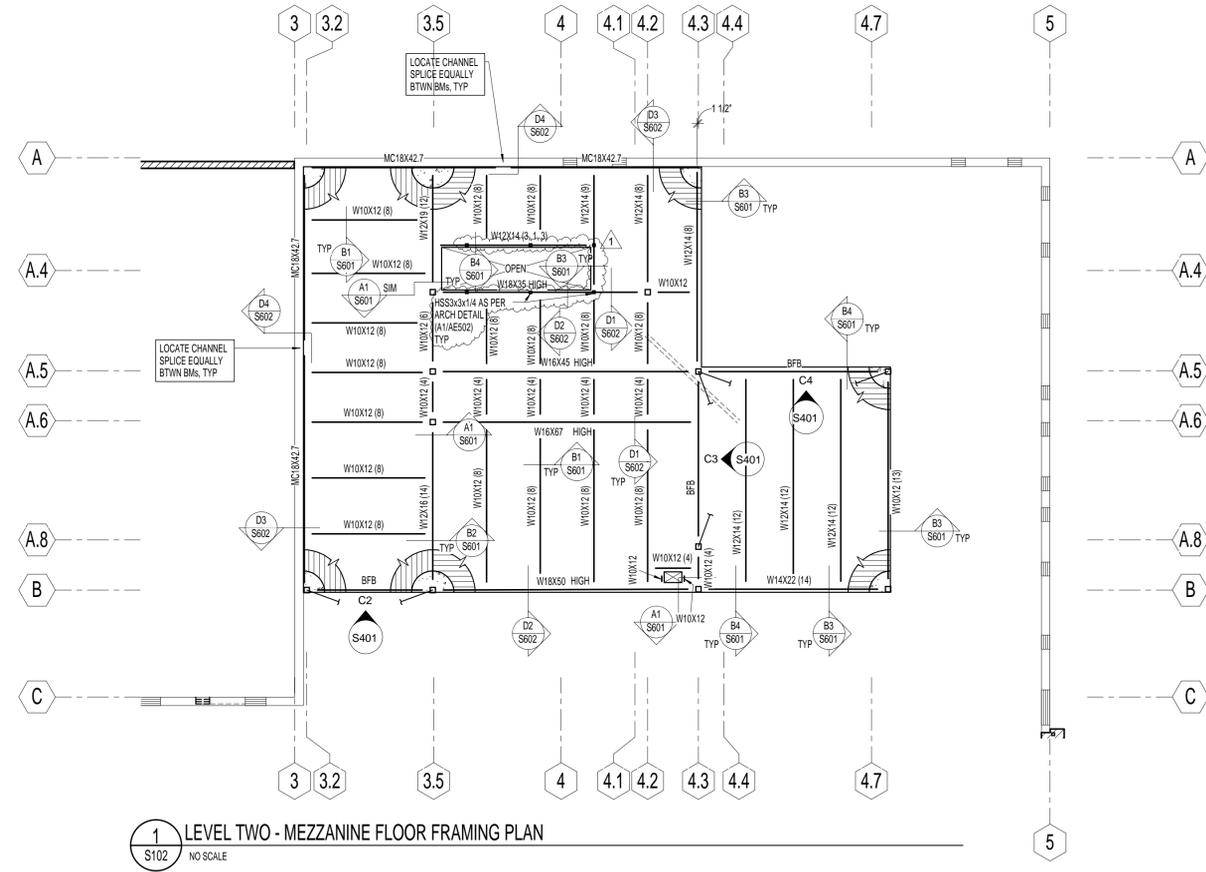
MEZZANINE FLOOR
FRAMING PLAN

S102

FLOOR FRAMING DESIGN LOADS:	
FLOOR LOADS	
CONCRETE COVER	51.0 PSF
STEEL DECK	2.0 PSF
STEEL FRAMING	4.0 PSF
LIVE LOAD	250.0 PSF
PARTITIONS	20.0 PSF
TOTAL LOAD	327.0 PSF

FLOOR FRAMING PLAN NOTES:	
1.	VERIFY WALL FLOOR OPENINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL DRAWINGS.
2.	SEE FLOOR FRAMING DETAILS ON SHEET (S601) FOR FRAMING AROUND ALL OPENINGS.
3.	SEE FLOOR FRAMING DETAILS ON SHEET (S601) FOR CONCENTRATED LOADS LOCATED FURTHER THAN 6" FROM JOIST/GIRDER PANEL POINT.

MARKS & SYMBOLS LEGEND	
	SECTION MARK SHEET NUMBER
	CONC OVER MTL DECK, SEE GSN ON (S101)
	ADDITIONAL CONC REINF OF (2) #5 BARS x 12'-0", CTR ON CORNERS, NO SPLICES
	MAS WALL, SEE SCHED ON (S301)
	STL COL, SEE SCHED ON (S301)
	STL COL, SEE SCHED ON (S301)
	COMPOSITE STL BMS, SEE GSN ON (S101)
	NUMBER OF HSA FOR SECTION OF COMPOSITE STL BM, SEE GSN ON (S101)



DECEMBER 9, 2010
FOR CONSTRUCTION

NOTE:
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 07.23.2010

DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, I.E. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.



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LIGHTING FIXTURE SCHEDULE

Table with columns: SYMBOL, DESCRIPTION, LAMPS, APPROVED MANUFACTURERS, CATALOG NUMBER, PICTURE. Lists various lighting fixtures like strip fluorescent, pendant, and recessed LED fixtures with their specifications and manufacturer details.

- NOTES: 1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC INSTANT START BALLASTS... 2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE... 3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER...

CALLOUT SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists symbols for lighting fixture callout number, mechanical equipment callout, and reference note callout.

FIRE ALARM SYSTEMS SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists symbols for electrical panel location, fire alarm system types (photoelectric, manual pull station, horn, strobe, flow switch, temperature switch).

ABBREVIATIONS SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists abbreviations for weather proof equipment, ceiling mounted devices, emergency circuit, fire alarm control panel, remote annunciator panel, and typical.

DISCONNECTS/CIRCUIT BREAKER SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists symbols for fused disconnect switch, combination starter/fused disconnect switch, motor location, and electrical meter location.

SWITCHES SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists symbols for single pole toggle switches, three way toggle switch, ceiling mounted occupancy sensors, wall mounted occupancy sensors, photo cell sensor, manual disconnect, and push button switch.

RECEPTACLES SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists symbols for duplex convenience outlets, 4-flex convenience outlet, flush floor outlet box, and junction box.

COMMUNICATION SYSTEMS SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists symbols for telephone terminal board, flush tele/data outlet, and flush floor outlet with tele/data.

LIGHTING SYSTEMS SYMBOL LIST

Table with columns: SYMBOL, DESCRIPTION. Lists symbols for lay-in mounted fluorescent fixture, surface mounted fluorescent fixture, emergency lighting, fluorescent strip light fixture, recessed fixture, pendant mounted light fixture, exit light, and hall mounted can light fixture.

GENERAL NOTES:

- 1. ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER... 2. ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES... 3. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEH... 4. THE CONTRACTOR SHALL PATCH THE WALLS AND CEILINGS WHERE THE DEVICES ARE REMOVED TO MATCH THE EXISTING WALLS AND CEILINGS...

CLIENT: LIPOT CONNECTING COMMUNITIES. REGION 4 OFFICE REMODEL RICHFIELD, UTAH XXXXX

DESIGNER: ARCHIPLEX GROUP. architecture - planning - design services. 255 Crossroad Square Salt Lake City, UT 84115

CONSULTANTS: E.C.E. LLC. Electrical Consulting Engineers. 939 So. West Temple Salt Lake City, Utah 84101

PROFESSIONAL SEAL: AKBAR MATINKHAH #172577. LICENSED PROFESSIONAL ENGINEER STATE OF UTAH

ISSUE table with columns: 1, 9/20/10, DFCM REVIEW COMMENTS, 12/9/10, ADDENDUM 1.

MARK, DATE, DESCRIPTION table. DFCM PROJECT NO: 10046900. DFCM CONTRACT NO: 107453. ECE PROJECT NO: 3991.

CHECKED BY: AM. SCALE: AS SHOWN. DATE: SEPT 20, 2010.

SHEET TITLE: GENERAL NOTES, DETAILS AND SCHEDULES. E001



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ISSUE

1	9/20/10	DFCM REVIEW COMMENTS
△	12/9/10	ADDENDUM 1

MARK DATE DESCRIPTION

DFCM PROJECT NO:	10046900
DFCM CONTRACT NO:	107453
ECE PROJECT NO:	3991
DRAWN BY:	PB
CHECKED BY:	AM
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DATE:	SEPT 20, 2010

SHEET TITLE

LEVEL ONE FLOOR PLAN - LIGHTING

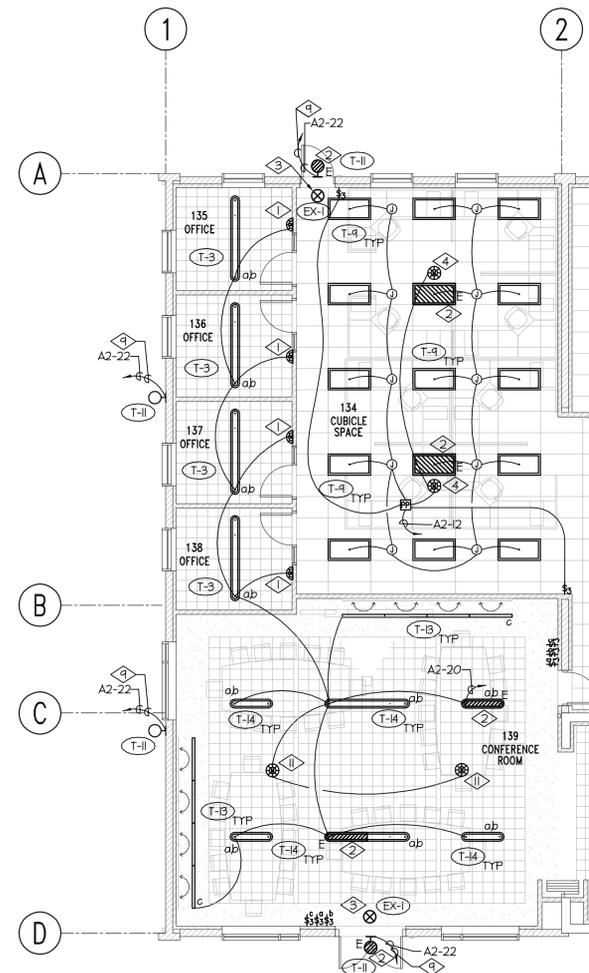
E201

REFERENCE NOTES:

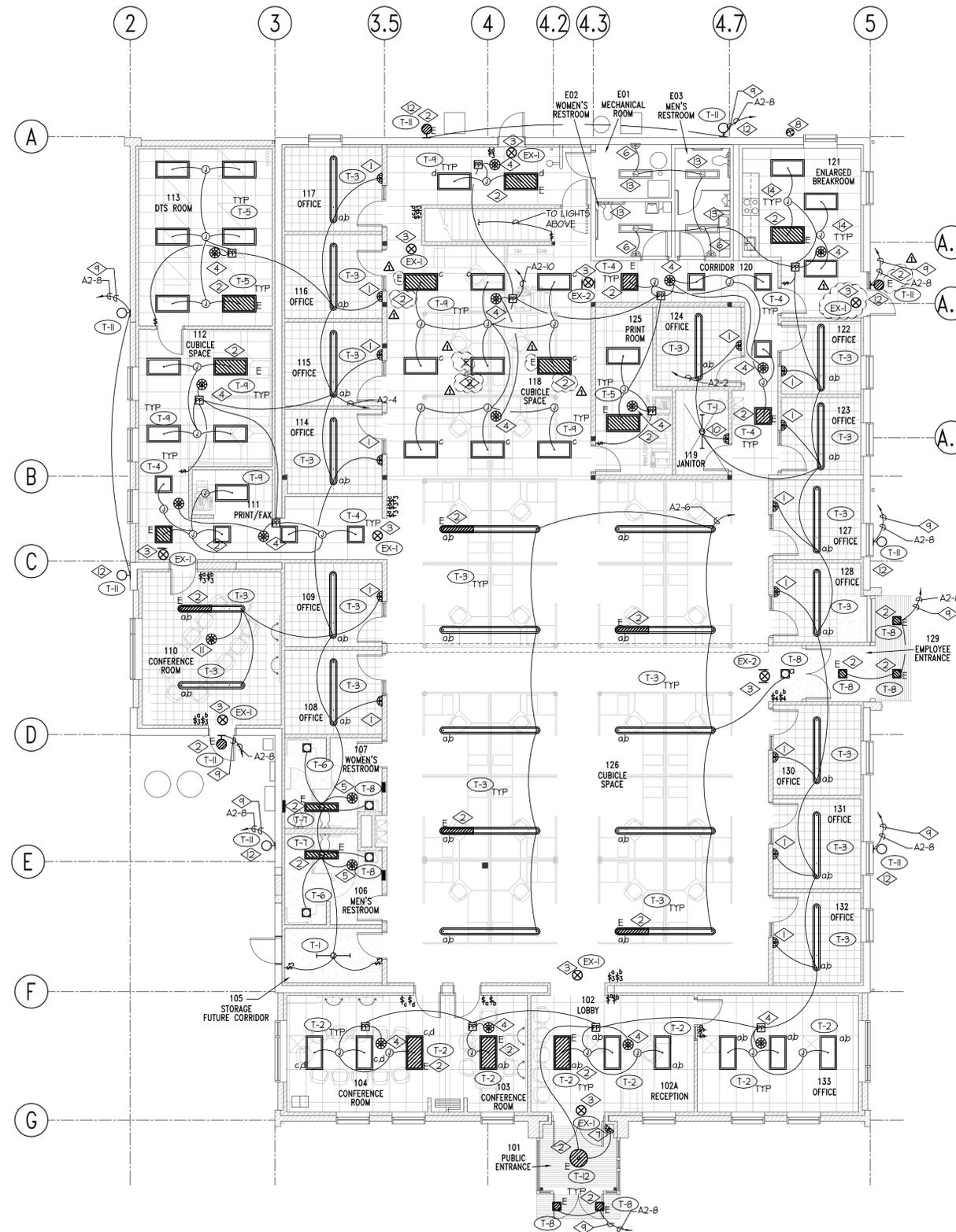
1. FURNISH AND INSTALL A 2-BUTTON WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR WITH AUTO OFF SWITCH IN THE APPROXIMATE LOCATION SHOWN. HATTSTOPPER TYPE DW-200 OR APPROVED EQUAL.
2. PROVIDE A 90 MINUTE EMERGENCY BATTERY PACK UNIT (100 LUMENS) FOR THE DESIGNATED EMERGENCY LIGHTS. TIE THE EMERGENCY BATTERY BACK TO UNSWITCHED LIGHTING CIRCUIT FOR A COMPLETE INSTALLATION.
3. TIE EXIT SIGN TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
4. FURNISH AND INSTALL A DUAL TECHNOLOGY OCCUPANCY SENSOR COMPLETE WITH POWER PACK AND ISOLATED RELAY WITH AUXILIARY CONTACTS IN THE APPROXIMATE LOCATION SHOWN. HATTSTOPPER TYPE DT-300 OR APPROVED EQUAL. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
5. FURNISH AND INSTALL A LINE VOLTAGE ULTRASONIC MOTION SENSOR IN THE APPROXIMATE LOCATION SHOWN. HATTSTOPPER TYPE UT-355 OR APPROVED EQUAL. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
6. EXISTING MOTION SENSOR IS TO REMAIN. MAKE ANY MODIFICATIONS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY.
7. FURNISH AND INSTALL A LINE VOLTAGE MOTION SENSOR WITH BUILT IN LIGHT LEVEL SENSOR IN THE APPROXIMATE LOCATION SHOWN. HATTSTOPPER TYPE CX-100 OR APPROVED EQUAL. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
8. INSTALL PHOTOCELL ON THE WALL IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE TIME CLOCK. COORDINATE EXACT LOCATION WITH ARCHITECT.
9. TIE LIGHT FIXTURES TO THE INDICATED CIRCUIT THROUGH THE TIME CLOCK BY THE ELECTRICAL PANELS.
10. FURNISH AND INSTALL A 1-BUTTON WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR WITH AUTO OFF SWITCH IN THE APPROXIMATE LOCATION SHOWN. HATTSTOPPER TYPE DW-100 OR APPROVED EQUAL.
11. FURNISH AND INSTALL A LINE VOLTAGE DUAL TECHNOLOGY MOTION SENSOR WITH INTEGRAL POWER PACK IN THE APPROXIMATE LOCATION SHOWN. HATTSTOPPER TYPE DT-355 OR APPROVED EQUAL. REFER TO MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.
12. MOUNT NEW LIGHT FIXTURE IN THE SAME LOCATION AS THE EXISTING FIXTURE THAT WAS REMOVED DURING DEMOLITION. TIE THE NEW LIGHT FIXTURES TO THE NEW CIRCUIT SHOWN.
13. EXISTING LIGHT FIXTURES ARE TO REMAIN. TIE EXISTING LIGHT FIXTURES TO THE NEW CIRCUIT SHOWN.
14. NEW LOCATION OF EXISTING LIGHT FIXTURES THAT WERE REMOVED IN DEMOLITION. TIE TO NEW CIRCUIT AS SHOWN. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.

SPECIAL NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTURES.



LEVEL ONE FLOOR PLAN - ADD ALT. #1 - LIGHTING
SCALE: 1/8" = 1'-0"



LEVEL ONE FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

SECTION 04200 - CONCRETE UNIT MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Concrete masonry units.
 - 2. Mortar and grout.
 - 3. Steel reinforcing bars.
 - 4. Masonry joint reinforcement.
 - 5. Ties and anchors.
 - 6. Embedded flashing.
 - 7. Miscellaneous masonry accessories.
- B. Related Sections:
 - 1. Division 03 for installing dovetail slots for masonry anchors.
 - 2. Division 05 for installing anchor sections of adjustable masonry anchors for connecting to structural-steel frame.
 - 3. Division 07 for water repellents applied to concrete unit masonry.
 - 4. Division 07 for exposed sheet metal flashing and for furnishing manufactured reglets installed in masonry joints.

1.3 DEFINITIONS

- A. CMU(s): Concrete masonry unit(s).
- B. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.4 PERFORMANCE REQUIREMENTS

- A. Provide structural unit masonry that develops indicated net-area compressive strengths at 28 days.
 - 1. Determine net-area compressive strength of masonry from average net-area compressive strengths of masonry units and mortar types (unit-strength method) according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.
 - 2. Determine net-area compressive strength of masonry by testing masonry prisms according to ASTM C 1314.

1.5 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Owner will engage a qualified independent testing agency to perform preconstruction testing indicated below. Retesting of materials that fail to comply with specified requirements shall be done at Contractor's expense.
1. Concrete Masonry Unit Test: For each type of unit required, according to ASTM C 140 for compressive strength.
 2. Mortar Test (Property Specification): For each mix required, according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91 for air content.
 3. Mortar Test (Property Specification): For each mix required, according to ASTM C 780 for compressive strength.
 4. Grout Test (Compressive Strength): For each mix required, according to ASTM C 1019.
 5. Prism Test: For each type of construction required, according to ASTM C 1314.

1.6 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For the following:
1. Masonry Units: Show sizes, profiles, coursing, and locations of special shapes.
 2. Reinforcing Steel: Detail bending and placement of unit masonry reinforcing bars. Comply with ACI 315, "Details and Detailing of Concrete Reinforcement." Show elevations of reinforced walls.
 3. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.
- C. Samples for Initial Selection:
1. Decorative CMUs, in the form of small-scale units.
 2. Colored mortar.
 3. Weep holes/vents.
- D. Samples for Verification: For each type and color of the following:
1. Exposed CMUs.
 2. Pigmented and colored-aggregate mortar. Make Samples using same sand and mortar ingredients to be used on Project.
 3. Accessories embedded in masonry.
- E. List of Materials Used in Constructing Mockups: List generic product names together with manufacturers, manufacturers' product names, model numbers, lot numbers, batch numbers, source of supply, and other information as required to identify materials used. Include mix proportions for mortar and grout and source of aggregates.
1. Submittal is for information only. Neither receipt of list nor approval of mockup constitutes approval of deviations from the Contract Documents unless such deviations are specifically brought to the attention of Architect and approved in writing.
- F. Qualification Data: For testing agency.
- G. Material Certificates: For each type and size of the following:

1. Masonry units.
 - a. Include data on material properties.
 - b. For masonry units used in structural masonry, include data and calculations establishing average net-area compressive strength of units.
 2. Cementitious materials. Include brand, type, and name of manufacturer.
 3. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
 4. Grout mixes. Include description of type and proportions of ingredients.
 5. Reinforcing bars.
 6. Joint reinforcement.
 7. Anchors, ties, and metal accessories.
- H. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.
1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91 for air content.
 2. Include test reports, according to ASTM C 1019, for grout mixes required to comply with compressive strength requirement.
- I. Statement of Compressive Strength of Masonry: For each combination of masonry unit type and mortar type, provide statement of average net-area compressive strength of masonry units, mortar type, and resulting net-area compressive strength of masonry determined according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.
- J. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.7 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Qualified according to ASTM C 1093 for testing indicated.
- B. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from single source from single manufacturer for each product required.
- C. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from single manufacturer for each cementitious component and from single source or producer for each aggregate.
- D. Masonry Standard: Comply with ACI 530.1/ASCE 6/TMS 602 unless modified by requirements in the Contract Documents.
- E. Sample Panels: Build sample panels on site to verify selections made under sample submittals and to demonstrate aesthetic effects. Comply with requirements in Division 01 Section "Quality Requirements" for mockups.
 1. Where masonry is to match existing, erect panels adjacent and parallel to existing surface.
 2. Provide samples to Architect of existing CMU salvaged from demotion for color matching selection.
 3. Protect approved sample panels from the elements with weather-resistant membrane.

4. Approval of sample panels is for color, texture, and blending of masonry units; relationship of mortar and sealant colors to masonry unit colors; tooling of joints; aesthetic qualities of workmanship; and other material and construction qualities specifically approved by Architect in writing.
 - a. Approval of sample panels does not constitute approval of deviations from the Contract Documents contained in sample panels unless such deviations are specifically approved by Architect in writing.

5. Build sample panels for typical exterior wall in sizes approximately 48” by 48” by full thickness.

- F. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
- D. Deliver preblended, dry mortar mix in moisture-resistant containers designed for use with dispensing silos. Store preblended, dry mortar mix in delivery containers on elevated platforms, under cover, and in a dry location or in covered weatherproof dispensing silos.
- E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.9 PROJECT CONDITIONS

- A. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
 1. Extend cover a minimum of 24 inches (600 mm) down both sides of walls and hold cover securely in place.
- B. Do not apply uniform floor or roof loads for at least 12 hours and concentrated loads for at least three days after building masonry walls or columns.
- C. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.
 1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.

2. Protect sills, ledges, and projections from mortar droppings.
 3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
 4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.
- D. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and higher and will remain so until masonry has dried, but not less than 7 days after completing cleaning.
- E. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

PART 2 - PRODUCTS

2.1 MASONRY UNITS, GENERAL

- A. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated in the standard. Do not use units where such defects will be exposed in the completed Work.
- B. Fire-Resistance Ratings: Where indicated, provide units that comply with requirements for fire-resistance ratings indicated as determined by testing according to ASTM E 119, by equivalent masonry thickness, or by other means, as acceptable to authorities having jurisdiction.

2.2 CONCRETE MASONRY UNITS

- A. Shapes: Provide shapes indicated and as follows, with exposed surfaces matching exposed faces of adjacent units unless otherwise indicated.
1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
 2. Provide square-edged units for outside corners unless otherwise indicated.
- B. CMUs: ASTM C 90.
1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 2150 psi (14.8 MPa).
 2. Density Classification: Lightweight.
 3. Size (Width): Manufactured to dimensions 3/8 inch less than nominal dimensions.
 4. Exposed Faces: Provide color and texture matching the range represented by the existing building's existing CMU units.

2.3 MASONRY LINTELS

- A. Masonry Lintels: Prefabricated or built-in-place masonry lintels made from bond beam CMUs with reinforcing bars placed as indicated and filled with coarse grout. Cure precast lintels before handling and installing. Temporarily support built-in-place lintels until cured.

2.4 MORTAR AND GROUT MATERIALS

- A. Portland Cement: ASTM C 150, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.
- D. Masonry Cement: ASTM C 91.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Capital Materials Corporation; Flamingo Color Masonry Cement.
 - b. Cemex S.A.B. de C.V.; Brikset Type N.
 - c. Essroc, Italcementi Group; Brixment.
 - d. Holcim (US) Inc.; Mortamix Masonry Cement.
 - e. Lafarge North America Inc.; Magnolia Masonry Cement.
 - f. Lehigh Cement Company; Lehigh Masonry Cement.
 - g. National Cement Company, Inc.; Coosa Masonry Cement.
- E. Mortar Cement: ASTM C 1329.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Lafarge North America Inc.; Lafarge Mortar Cement or Magnolia Superbond Mortar Cement.
- F. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C 979. Use only pigments with a record of satisfactory performance in masonry mortar.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Davis Colors; True Tone Mortar Colors.
 - b. Lanxess Corporation; Bayferrox Iron Oxide Pigments.
 - c. Solomon Colors, Inc.; SGS Mortar Colors.
- G. Aggregate for Mortar: ASTM C 144.
 - 1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.

2. For joints less than 1/4 inch (6 mm) thick, use aggregate graded with 100 percent passing the No. 16 (1.18-mm) sieve.
 3. White-Mortar Aggregates: Natural white sand or crushed white stone.
 4. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
- H. Aggregate for Grout: ASTM C 404.
- I. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Euclid Chemical Company (The); Accelguard 80.
 - b. Grace Construction Products, W. R. Grace & Co. - Conn.; Morset.
 - c. Sonneborn Products, BASF Aktiengesellschaft; Trimix-NCA.
- J. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs, containing integral water repellent by same manufacturer.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. ACM Chemistries, Inc.; RainBloc for Mortar.
 - b. BASF Aktiengesellschaft; Rheopel Mortar Admixture.
 - c. Grace Construction Products, W. R. Grace & Co. - Conn.; Dry-Block Mortar Admixture.
- K. Water: Potable.

2.5 REINFORCEMENT

- A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60 (Grade 420).
- B. Masonry Joint Reinforcement, General: ASTM A 951/A 951M. As indicated on the Structural Drawings, or if not indicated:
1. Interior Walls: Mill-galvanized, carbon steel.
 2. Exterior Walls: Hot-dip galvanized, carbon steel.
 3. Wire Size for Side Rods: 0.187-inch (4.76-mm) diameter.
 4. Wire Size for Cross Rods: 0.148-inch (3.77-mm) diameter.
 5. Wire Size for Veneer Ties: [0.148-inch (3.77-mm)] [0.187-inch (4.76-mm)] diameter.
 6. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches (407 mm) o.c.
 7. Provide in lengths of not less than 10 feet (3 m), with prefabricated corner and tee units.
- C. Masonry Joint Reinforcement for Single-Wythe Masonry: Either ladder or truss type with single pair of side rods.

2.6 TIES AND ANCHORS

- A. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated.
1. Mill-Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M; with ASTM A 641/A 641M, Class 1 coating.
 2. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M; with ASTM A 153/ A 153M, Class B-2 coating.
 3. Stainless-Steel Wire: ASTM A 580/A 580M, Type 304
 4. Galvanized Steel Sheet: ASTM A 653/A 653M, Commercial Steel, G60 (Z180) zinc coating.
 5. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.
 6. Stainless-Steel Sheet: ASTM A 666, Type 304
 7. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
 8. Stainless-Steel Bars: ASTM A 276 or ASTM A 666, Type 304.

2.7 MISCELLANEOUS ANCHORS

- A. Unit Type Inserts in Concrete: Cast-iron or malleable-iron wedge-type inserts.
- B. Anchor Bolts: Headed steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers; hot-dip galvanized to comply with ASTM A 153/A 153M, Class C; of dimensions indicated.
- C. Post-installed Anchors: Torque-controlled expansion anchors or chemical anchors.
1. Load Capacity: Capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.
 2. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5 unless otherwise indicated.
 3. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 (A1) stainless-steel bolts, ASTM F 593 (ASTM F 738M), and nuts, ASTM F 594 (ASTM F 836M).

2.8 EMBEDDED FLASHING MATERIALS

- A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
1. Stainless Steel: ASTM A 240/A 240M, Type 304, 0.016 inch (0.40 mm) thick.
 2. Fabricate continuous flashings in sections 96 inches (2400 mm) long minimum, but not exceeding 12 feet (3.7 m). Provide splice plates at joints of formed, smooth metal flashing.
 3. Fabricate through-wall metal flashing embedded in masonry from stainless steel with ribs at 3-inch (76-mm) intervals along length of flashing to provide an integral mortar bond.

- a. Products: Subject to compliance with requirements, [provide the following] [provide one of the following] [available products that may be incorporated into the Work include, but are not limited to, the following]:
 - 1) Cheney Flashing Company; [Cheney Flashing (Dovetail)] [or] [Cheney 3-Way Flashing (Sawtooth)].
 - 2) Keystone Flashing Company, Inc.; Keystone 3-Way Interlocking Thruwall Flashing.
 - 3) Sandell Manufacturing Co., Inc.; Mechanically Keyed Flashing.
 4. Fabricate through-wall flashing with snaplock receiver on exterior face where indicated to receive counterflashing.
 5. Fabricate through-wall flashing with drip edge unless otherwise indicated. Fabricate by extending flashing 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
 6. Fabricate through-wall flashing with sealant stop unless otherwise indicated. Fabricate by bending metal back on itself 3/4 inch (19 mm) at exterior face of wall and down into joint 1/4 inch (6 mm) to form a stop for retaining sealant backer rod.
 7. Metal Drip Edge: Fabricate from stainless steel. Extend at least 3 inches (76 mm) into wall and 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
 8. Metal Sealant Stop: Fabricate from stainless steel. Extend at least 3 inches (76 mm) into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch (19 mm) and down into joint 1/4 inch (6 mm) to form a stop for retaining sealant backer rod.
 9. Metal Expansion-Joint Strips: Fabricate from stainless steel to shapes indicated.
- B. Flexible Flashing: Use[one of] the following unless otherwise indicated:
1. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 0.030 inch (0.76 mm).
 - a. Products: Subject to compliance with requirements, provide one of the following]:
 - 1) Advanced Building Products Inc.; Peel-N-Seal.
 - 2) Carlisle Coatings & Waterproofing; CCW-705-TWF Thru-Wall Flashing.
 - 3) Dayton Superior Corporation, Dur-O-Wal Division; Dur-O-Barrier Thru-Wall Flashing.
 - 4) Fiberweb, Clark Hammerbeam Corp.; Aquaflash 500.
 - 5) Grace Construction Products, W. R. Grace & Co. - Conn.; Perm-A-Barrier Wall Flashing.
 - 6) Heckmann Building Products Inc.; No. 82 Rubberized-Asphalt Thru-Wall Flashing.
 - 7) Hohmann & Barnard, Inc.; Textroflash.
 - 8) W. R. Meadows, Inc.; Air-Shield Thru-Wall Flashing.
 - 9) Polyguard Products, Inc.; [Polyguard 300] [Polyguard 400].
 - 10) Sandell Manufacturing Co., Inc.; Sando-Seal.
 - 11) Williams Products, Inc.; Everlastic MF-40.
 - b. Accessories: Provide preformed corners, end dams, other special shapes, and seaming materials produced by flashing manufacturer.
- C. Application: Unless otherwise indicated, use the following:

1. Where flashing is indicated to receive counterflashing, use metal flashing.
2. Where flashing is indicated to be turned down at or beyond the wall face, use metal flashing.
3. Where flashing is partly exposed and is indicated to terminate at the wall face, use metal flashing with a drip edge.
4. Where flashing is fully concealed, use flexible flashing.

2.9 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene, urethane or PVC.
- B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 or PVC, complying with ASTM D 2287, Type PVC-65406 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.
- C. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
- D. Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells and hold reinforcing bars in center of cells. Units are formed from 0.148-inch (3.77-mm) steel wire, hot-dip galvanized after fabrication. Provide units designed for number of bars indicated.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dayton Superior Corporation, Dur-O-Wal Division; D/A 810, D/A 812 or D/A 817.
 - b. Heckmann Building Products Inc.; No. 376 Rebar Positioner.
 - c. Hohmann & Barnard, Inc.; #RB or #RB-Twin Rebar Positioner.
 - d. Wire-Bond; O-Ring or Double O-Ring Rebar Positioner.

2.10 MORTAR AND GROUT MIXES

- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
 1. Do not use calcium chloride in mortar or grout.
 2. Use portland cement-lime, masonry cement, or mortar cement mortar unless otherwise indicated.
 3. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
- B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.
- C. Mortar for Unit Masonry: Comply with ASTM C 270, Property Specification. Provide the following types of mortar for applications stated unless another type is indicated or needed to provide required compressive strength of masonry].

1. For masonry below grade or in contact with earth, use Type M.
 2. For reinforced masonry, use Type S .
 3. For mortar parge coats, use Type S or Type N.
 4. For unreinforced exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions; and for other applications where another type is not indicated, use Type N.
 5. For interior non-load-bearing partitions, Type O may be used instead of Type N.
- D. Pigmented Mortar: Use colored cement product of color to match existing CMU walls.
1. Pigments shall not exceed 10 percent of portland cement by weight.
 2. Mix to match existing wall color.
 3. Application: Use pigmented mortar for exposed mortar joints.
- E. Grout for Unit Masonry: Comply with ASTM C 476.
1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with Table 1.15.1 in ACI 530.1/ASCE 6/TMS 602 for dimensions of grout spaces and pour height.
 2. Proportion grout in accordance with ASTM C 476, Table 1 or paragraph 4.2.2 for specified 28-day compressive strength indicated, but not less than 2000 psi (14 MPa).
 3. Provide grout with a slump of 10 to 11 inches (254 to 279 mm) as measured according to ASTM C 143/C 143M.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of work.
 2. Verify that foundations are within tolerances specified.
 3. Verify that reinforcing dowels are properly placed.
- B. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Build chases and recesses to accommodate items specified in this and other Sections.
- B. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match the construction immediately adjacent to opening.
- C. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

3.3 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation do not vary by more than plus 1/2 inch (12 mm) or minus 1/4 inch (6 mm).
2. For location of elements in plan do not vary from that indicated by more than plus or minus 1/2 inch (12 mm).
3. For location of elements in elevation do not vary from that indicated by more than plus or minus 1/4 inch (6 mm) in a story height or 1/2 inch (12 mm) total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls do not vary from level by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2 inch (12 mm) maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
3. For vertical lines and surfaces do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2 inch (12 mm) maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
5. For lines and surfaces do not vary from straight by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2 inch (12 mm) maximum.
6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2 inch (12 mm) maximum.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm), with a maximum thickness limited to 1/2 inch (12 mm).
2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch (3 mm).
3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch (9 mm) or minus 1/4 inch (6 mm).
4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm).

3.4 LAYING MASONRY WALLS

- A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
- B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less than nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.
- C. Lay concealed masonry with all units in a wythe in running bond or bonded by lapping not less than 4-inches (100-mm). Bond and interlock each course of each wythe at corners. Do not use units with less than nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.

- D. Stopping and Resuming Work: Stop work by racking back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar before laying fresh masonry.
- E. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
- F. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.
- G. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below and rod mortar or grout into core.
- H. Fill cores in hollow CMUs with grout 24 inches (600 mm) under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

3.5 MORTAR BEDDING AND JOINTING

- A. Lay hollow CMUs as follows:
 - 1. With face shells fully bedded in mortar and with head joints of depth equal to bed joints.
 - 2. With webs fully bedded in mortar in all courses of piers, columns, and pilasters.
 - 3. With webs fully bedded in mortar in grouted masonry, including starting course on footings.
 - 4. With entire units, including areas under cells, fully bedded in mortar at starting course on footings where cells are not grouted.
- B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.
- C. Set cast-stone trim units in full bed of mortar with full vertical joints. Fill dowel, anchor, and similar holes.
 - 1. Clean soiled surfaces with fiber brush and soap powder and rinse thoroughly with clear water.
 - 2. Allow cleaned surfaces to dry before setting.
 - 3. Wet joint surfaces thoroughly before applying mortar.
- D. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
- E. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

3.6 ANCHORING MASONRY TO STRUCTURAL STEEL AND CONCRETE

- A. Anchor masonry to structural steel and concrete where masonry abuts or faces structural steel or concrete to comply with the following:
 - 1. Provide an open space not less than 1/2 inch (13 mm) wide between masonry and structural steel or concrete unless otherwise indicated. Keep open space free of mortar and other rigid materials.
 - 2. Anchor masonry with anchors embedded in masonry joints and attached to structure.

3. Space anchors as indicated, but not more than 24 inches (610 mm) o.c. vertically and 36 inches (915 mm) o.c. horizontally.

3.7 CONTROL AND EXPANSION JOINTS

- A. General: Install control and expansion joint materials in unit masonry as masonry progresses. Do not allow materials to span control and expansion joints without provision to allow for in-plane wall or partition movement.
- B. Form control joints in concrete masonry using one of the following methods:
 1. Fit bond-breaker strips into hollow contour in ends of CMUs on one side of control joint. Fill resultant core with grout and rake out joints in exposed faces for application of sealant.
 2. Install preformed control-joint gaskets designed to fit standard sash block.
 3. Install interlocking units designed for control joints. Install bond-breaker strips at joint. Keep head joints free and clear of mortar or rake out joint for application of sealant.
 4. Install temporary foam-plastic filler in head joints and remove filler when unit masonry is complete for application of sealant.

3.8 LINTELS

- A. Provide masonry lintels where shown and where openings of more than 12 inches (305 mm) for brick-size units and 24 inches (610 mm) for block-size units are shown without structural steel or other supporting lintels.
- B. Provide minimum bearing of 8 inches (200 mm) at each jamb unless otherwise indicated.

3.9 FLASHING

- A. General: Install embedded flashing in masonry at lintels, ledges, other obstructions to downward flow of water in wall, and where indicated.
- B. Install flashing as follows unless otherwise indicated:
 1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.
 2. At lintels, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. At heads and sills, extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to form end dams.
 3. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal drip edge.
 4. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal flashing termination.
 5. Cut flexible flashing off flush with face of wall after masonry wall construction is completed.

- C. Install reglets and nailers for flashing and other related construction where they are shown to be built into masonry.

3.10 REINFORCED UNIT MASONRY INSTALLATION

- A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
 - 1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
 - 2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other loads that may be placed on them during construction.
- B. Placing Reinforcement: Comply with requirements in ACI 530.1/ASCE 6/TMS 602.
- C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.
 - 1. Comply with requirements in ACI 530.1/ASCE 6/TMS 602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
 - 2. Limit height of vertical grout pours to not more than 60 inches (1520 mm).

3.11 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner will engage special inspectors to perform tests and inspections and prepare reports. Allow inspectors access to scaffolding and work areas, as needed to perform tests and inspections. Retesting of materials that fail to meet specified requirements shall be done at Contractor's expense.
- B. Inspections: Level 1 special inspections according to the "International Building Code."
 - 1. Begin masonry construction only after inspectors have verified proportions of site-prepared mortar.
 - 2. Place grout only after inspectors have verified compliance of grout spaces and of grades, sizes, and locations of reinforcement.
 - 3. Place grout only after inspectors have verified proportions of site-prepared grout.
- C. Testing Prior to Construction: One set of tests.
- D. Testing Frequency: One set of tests for each 5000 sq. ft. (464 sq. m) of wall area or portion thereof.
- E. Concrete Masonry Unit Test: For each type of unit provided, according to ASTM C 140 for compressive strength.
- F. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, according to ASTM C 780.
- G. Mortar Test (Property Specification): For each mix provided, according to ASTM C 780. Test mortar for mortar air content and compressive strength.

- H. Grout Test (Compressive Strength): For each mix provided, according to ASTM C 1019.
- I. Prism Test: For each type of construction provided, according to ASTM C 1314 at 7 days and at 28 days.

3.12 PARGING

- A. Parge exterior faces of below-grade masonry walls, where indicated, in 2 uniform coats to a total thickness of 3/4 inch (19 mm). Dampen wall before applying first coat and scarify first coat to ensure full bond to subsequent coat.
- B. Use a steel-trowel finish to produce a smooth, flat, dense surface with a maximum surface variation of 1/8 inch per foot (3 mm per 300 mm). Form a wash at top of parging and a cove at bottom.
- C. Damp-cure parging for at least 24 hours and protect parging until cured.

3.13 REPAIRING, POINTING, AND CLEANING

- A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.
- B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.
- C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
 - 1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
 - 2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
 - 3. Protect adjacent stone and non-masonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
 - 4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
 - 5. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.

3.14 MASONRY WASTE DISPOSAL

- A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

- B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.
 - 1. Crush masonry waste to less than 4 inches (100 mm) in each dimension.
 - 2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Division 31 Section "Earth Moving."
 - 3. Do not dispose of masonry waste as fill within 18 inches (450 mm) of finished grade.

- C. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION 04200

SECTION 08410 - METAL-FRAMED STOREFRONTS

PART 1 – GENERAL

1.1 RELATED REQUIREMENTS

- A. Section 07900 - Joint Sealers: Perimeter sealant and back-up materials.
- B. Section 08800 - Glazing: Glass and glazing accessories.

1.2 PERFORMANCE REQUIREMENTS

- A. Design and size components to withstand the following load requirements without damage or permanent set, when tested in accordance with ASTM E 330, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
 - 1. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.
- B. Movement: Accommodate movement between storefront and perimeter framing and deflection of lintel, without damage to components or deterioration of seals.
- C. Air Infiltration: Limit air infiltration through assembly to 0.06 cu ft/min/sq ft (0.3 L/s/sq m) of wall area, measured at a reference differential pressure across assembly of 1.57 psf (75 Pa) as measured in accordance with ASTM E 283.
- D. Water Leakage: None, when measured in accordance with ASTM E 331 with a test pressure difference of 2.86 lbf/sq ft (140 Pa).
- E. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
- F. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F (95 degrees C) over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.

1.3 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, and field welding required.
- C. Design Data: Provide framing member structural and physical characteristics, engineering calculations, dimensional limitations.

1.4 QUALITY ASSURANCE

- A. Designer Qualifications: Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed at Utah.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Handle products of this section in accordance with AAMA CW-10.
- B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Kawneer Company, Inc.; Product 1600 System1 Framing (Basis of Design).
- B. Kawneer Company, Inc.; Product Trifab 451 Versiglaze (Basis of Design).
- C. Other Acceptable Manufacturers:
 - 1. United States Aluminum Corp: www.usalum.com.
 - 2. Vistawall Architectural Products: www.vistawall.com.
 - 3. Substitutions: Not permitted.

2.2 COMPONENTS

- A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
 - 1. Finish: Class I natural anodized.
- B. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
 - 1. Glazing stops: Flush.
 - 2. Cross-Section: 2 x 4-1/2 inch nominal dimension.
 - 3. Structurally Reinforced Members: Extruded aluminum with internal reinforcement of structural steel member where required for wind loads.
 - 4. Finish: Same as storefront
- C. Doors: Glazed aluminum.
 - 1. Thickness: 1-3/4 inches (43 mm).
 - 2. Top Rail: 3-1/2 inches wide.
 - 3. Vertical Stiles: 3-1/2 inches wide.
 - 4. Bottom Rail: 6-1/2 inches wide.
 - 5. Glazing Stops: Square.
 - 6. Finish: Same as storefront.
- D. Miscellaneous Framing: Aluminum.
 - 1. Window frames included.
 - 2. Frame extensions as indicated on drawings to achieve overall frame depth of 11 1/2".

2.3 MATERIALS

- A. Extruded Aluminum: ASTM B 221 (ASTM B 221M).
- B. Structural Steel Sections: ASTM A 36/A 36M; galvanized in accordance with requirements of ASTM A 123/A 123M.
- C. Fasteners: Stainless steel.
- D. Concealed Flashings: 0.018 inch thick stainless steel.
- E. Perimeter Sealant: Type as specified in Section 07900.
- F. Glass: As specified in Section 08800.

- G. Glazing Accessories: As specified in Section 08800.
- H. Touch-Up Primer for Galvanized Steel Surfaces: SSPC-Paint 20, zinc rich.

2.4 FINISHES

- A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils (0.018 mm) thick.

2.5 HARDWARE

- A. General: Refer to Division 8 Section Finish Hardware for requirements for hardware items other than those indicated to be provided by the aluminum entrance manufacturer.
- B. Hardware typical all doors: Provide heavy-duty hardware units as indicated, scheduled, or required for operation of each door, including the following items of sizes, number, and type recommended by manufacturer for service required; finish to match door:
 - 1. Ball-Bearing Butts: 5-knuckle, 2-bearings, steel ball bearing butts sized to comply with ANSI A156.1, Grade 1. Provide 2 butts for doors 7 feet 6 inches or less; provide 3 butts for taller and heavier doors.
 - 2. Surface-Mounted Overhead Closers: Modern type with cover, for parallel-arm-type mounting installation. Comply with ANSI A156.4, Grade 1. Comply with manufacturer's recommendations for closer size, depending on door size, exposure to weather and anticipated frequency of use. Include the following:
 - a. Delayed-action closing.
 - 3. Cylinders are supplied under another Division 8 Section for keying into the building system.
 - 4. Dead latches: Mortise type dead latch with stainless steel strike box; comply with ANSI A156.5, Grade 1.
 - 5. Lever Handles (**on doors not equipped with exit hardware**): Cast aluminum alloy inside lever handle units.
 - 6. Pull Handles (**on doors not equipped with exit hardware**): Aluminum pull handles of style indicated.
 - 7. Thresholds: Extruded aluminum threshold of size and design indicated in mill finish, complete with anchors and clips.
- C. **Exit Hardware:**
 - 1. **Doors 101A, 121B, 129A, & (139A Add-Alternate): Exterior pair vestibule doors Concealed Rod Exit Device: Von Duprin (or equal) EL 9847 DT 06 3' US26D**

Cylinder – Doors to receive electric strike for card reader, see Section 08710 Hardware Schedule

2.6 FABRICATION

- A. Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.

- B. Accurately fit and secure joints and corners. Make joints flush, hairline, and weatherproof.
- C. Prepare components to receive anchor devices. Fabricate anchors.
- D. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
- E. Arrange fasteners and attachments to conceal from view.
- F. Reinforce components internally for door hardware.
- G. Reinforce framing members for imposed loads.
- H. Finishing: Apply factory finish to all surfaces that will be exposed in completed assemblies.
 - 1. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install wall system in accordance with manufacturer's instructions.
- B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- C. Provide alignment attachments and shims to permanently fasten system to building structure.
- D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.
- E. Provide thermal isolation where components penetrate or disrupt building insulation.
- F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.
- G. Coordinate attachment and seal of perimeter air and vapor barrier materials.
- H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- I. Install glass in accordance with Section 08800, using glazing method required to achieve performance criteria.
- J. Install perimeter sealant in accordance with Section 07900.
- K. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.2 CLEANING

- A. Remove protective material from pre-finished aluminum surfaces.
- B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.
- C. Remove excess sealant by method acceptable to sealant manufacturer.

END OF SECTION 08410

SECTION 08710 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes items known commercially as finish or door hardware that are required for swing doors, except special types of unique hardware specified in the same sections as the door frames on which they are installed.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 6 Section "Interior Architectural Woodwork" for cabinet hardware.
 - 2. Division 8 Section "Standard Steel Doors and Frames" for silencers integral with hollow metal frames.
- C. Products furnished but not installed under this Section include:
 - 1. Cylinders for locks on entrance doors.
 - 2. Final replacement cores and keys to be installed by End User.

1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.
- B. Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- C. Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Final Hardware Schedule Content: Based on hardware indicated, organize schedule into "hardware sets" indicating complete designations of every item required for each door or opening. Include the following information:
 - a. Type, style, function, size, and finish of each hardware item.
 - b. Name and manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of each hardware set cross referenced to indications on Drawings both on floor plans and in door and frame schedule.
 - e. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for hardware.
 - g. Door and frame sizes and materials.
 - h. Keying information.
 - 2. Submittal Sequence: Submit final schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work that is critical in the Project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by door hardware, and other

information essential to the coordinated review of schedule.

3. Keying Schedule: Submit separate detailed schedule indicating clearly how the End User's final instructions on keying of locks has been fulfilled.
 - D. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- 1.4 QUALITY ASSURANCE
- A. Single Source Responsibility: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single hardware supplier.
- 1.5 PRODUCT HANDLING
- A. Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.
 - B. Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).
- 1.6 MAINTENANCE
- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for End User's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
 1. Butts and Hinges:
 - a. Hager Hinge Co.
 - b. H. Soss & Company.
 - c. Stanley Hardware, Div. Stanley Works.
 - d. Mckinney
 - e. Or, pre-approved equal.
 2. Cylinders and Locks:
 - a. Best Lock Corp.
 - b. Corbin & Ruswin Architectural Hardware, Div. Black & Decker Corp.
 - c. Falcon Lock Co.
 - d. Sargent Manufacturing Company.
 - e. Schlage Lock, Div. Ingersoll-Rand Door Hardware Group.
 - f. Yale Security Inc.
 - g. Hagar
 - h. Hadrian Metal Lockers
 - i. Brad Steele & Associates
 - j. Or, pre-approved equal.

3. Overhead Closers:
 - a. Dorma Door Controls International.
 - b. LCN, Div. Ingersoll-Rand Door Hardware Group.
 - c. Monarch Hardware & Mfg. Co., Div Newman Tonks, Inc.
 - d. Rixson-Firemark, Div. Yale Security Inc.
 - e. Sargent Manufacturing Company.
 - f. Russwin
 - g. Hagar
 - h. Or, pre-approved equal.

4. Door Trim Units (Kickplates):
 - a. Baldwin Hardware Corp.
 - b. Builders Brass Works Corp.
 - c. Hager Hinge Co.
 - d. H. B. Ives, A Harrow Company.
 - e. Triangle Brass Manufacturing Company (Trimco).
 - f. Quality
 - g. Or, pre-approved equal.

5. Door Stripping and Seals:
 - a. Hager Hinge Co.
 - b. National Guard Products, Inc.
 - c. Pemko Manufacturing Co., Inc.
 - d. Reese Enterprises, Inc.
 - e. Zero International, Inc.
 - f. Ultra
 - g. Or, pre-approved equal.

6. Thresholds:
 - a. Hager Hinge Co.
 - b. National Guard Products, Inc.
 - c. Pemko Manufacturing Co., Inc.
 - d. Reese Enterprises, Inc.
 - e. Zero International, Inc.
 - f. Ultra
 - g. Or, pre-approved equal.

2.2 SCHEDULED HARDWARE

- A. Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in the "Hardware Schedule" at the end of this Section. Products are identified by using hardware designation numbers of the following:
 1. Manufacturer's Product Designations: The product designation and name of one manufacturer are listed for each hardware type required for the purpose of establishing minimum requirements. Provide either the product designated or, where more than one manufacturer is specified under the Article "Manufacturers" in Part 2 for each hardware type, the comparable product of one of the other manufacturers that complies with requirements.

2.3 MATERIALS AND FABRICATION

- A. Manufacturer's Name Plate: Do not use manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise acceptable to Architect.

1. Manufacturer's identification will be permitted on rim of lock cylinders only.
- B. Base Metals: Produce hardware units of basic metal and forming method indicated using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units for finish designations indicated.
- C. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- D. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted finish.
- E. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless their use is the only means of reinforcing the work adequately to fasten the hardware securely. Where thru-bolts are used as a means of reinforcing the work, provide sleeves for each thru-bolt or use sex screw fasteners.

2.4 HINGES, BUTTS, AND PIVOTS

- A. Templates: Provide only template-produced units.
- B. Screws: Provide Phillips flat-head screws complying with the following requirements:
 1. For metal doors and frames install machine screws into drilled and tapped holes.
 2. Finish screw heads to match surface of hinges or pivots.
- C. Hinge Pins: Non-removable pins.
 1. Tips: Flat button and matching plug, finished to match leaves.
- D. Number of Hinges: Provide number of hinges indicated but not less than 3 hinges per door leaf for doors 90 inches or less in height and one additional hinge for each 30 inches of additional height.

2.5 LOCK CYLINDERS AND KEYING

- A. Review the keying system with the Owner and provide the type required (master, grandmaster or great-grandmaster), either new or integrated with Owner's existing system.
- B. Equip locks with cylinders for interchangeable-core pin tumbler inserts. Furnish only temporary inserts for the construction period, and remove these when directed. Final replacement cores and keys to be installed by End User.
- C. Metals: Construct lock cylinder parts from brass or bronze, stainless steel, or nickel silver.
- D. Comply with End User's instructions for masterkeying and, except as otherwise indicated, provide individual change key for each lock that is not designated to be keyed alike with a group of related locks.
 1. Permanently inscribe each key with number of lock that identifies cylinder manufacturer's key symbol, and notation, "DO NOT DUPLICATE."

- E. Key Material: Provide keys of nickel silver only.
- F. Key Quantity: Furnish 3 change keys for each lock, 5 master keys for each master system, and 5 grandmaster keys for each grandmaster system.
 - 1. Furnish one extra blank for each lock.
 - 2. Deliver keys to Owner.

2.6 KEY CONTROL SYSTEM

- A. Provide a key control system including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150 percent of the number of locks required for the Project.
 - 1. Provide complete cross index system set up by key control manufacturer, and place keys on markers and hooks in the cabinet as determined by the final key schedule.
 - 2. Provide hinged-panel type cabinet for wall mounting.

2.7 LOCKS, LATCHES, AND BOLTS

- A. Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt, with curved lip extended to protect frame, finished to match hardware set, unless otherwise indicated.
 - 1. Provide flat lip strikes for locks with 3-piece, antifriction latchbolts as recommended by manufacturer.
 - 2. Provide recess type top strikes for bolts locking into head frames, unless otherwise indicated.
 - 3. Provide dust-proof strikes for foot bolts, except where special threshold construction provides nonrecessed strike for bolt.
 - 4. Provide roller type strikes where recommended by manufacturer of the latch and lock units.
- B. Lock Throw: Provide 5/8-inch minimum throw of latch on pairs of doors. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
 - 1. Provide 1/2-inch minimum throw of latch for other bored and preassembled types of locks and 3/4-inch minimum throw of latch for mortise locks. Provide 1-inch minimum throw for all dead bolts.
- C. Exit Device Dogging: Equip the units with keyed dogging device to keep the latch bolt retracted, when engaged.
- D. Rabbeted Doors: Where rabbeted door stiles are indicated, provide special rabbeted front on lock and latch units and bolts.

2.8 EXIT DEVICES/PANIC HARDWARE

- A. **General features: BHMA A156.3, Grade 1.**
- B. **Accessibility Requirements: Where handles, pulls, latches, locks and other operating devices are indicated to comply with accessibility requirements, comply**

with the U.S. Architectural Transportations Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
- C. Exit Devices for Means of Egress Doors: Comply with NFPA 101. Exit devices shall not require more than 15lbf to release the latch. Locks shall not require use of a key, tool of special knowledge for operation.
- D. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to AHJ for panic protection, based on testing according to UL 305.
1. Independent lab-tested 10,000,000 cycles.
 2. Push-through touch pad design. No exposed touch bar fasteners, no exposed cavities when operated. Return stroke fluid dampeners and rubber bottoming dampeners, plus anti-rattle devices.
 3. No exposed screws to show through glass doors.
 4. Non-handed basic device design with center case interchangeable with all functions, no extra parts required to effect change of function.
- E. Specific features:
1. Non-Fire Rated Devices: As scheduled in hardware sets.
 2. Lever Trim: Vandal resistant, forged brass or bronze escutcheon min .130" thickness, match lockset lever design.
 3. Fire-Labeled Devices: UL label indicating "Fire Exit Hardware". Vertical rod devices less bottom rod (LBR) unless otherwise scheduled.
 4. Electrically Operated Devices: Single manufacturer source for electric latch retraction devices, electrically controlled trim, power transfers, power supplies, monitoring switches and controls.
 5. Furnish all exit devices with deadlocking latchbolts.
 6. End caps shall be sloped and of heavy-duty metal alloy construction and provide horizontal adjustment to provide flush alignment with device cover plate. When device end cap is installed, no raised edges will protrude. End cap shall be cast metal or forged aluminum and have a minimum thickness of (.250"). Plastic or metal stamping will not be acceptable.
 7. Provide all shim kits and filler plates to allow flush mounting of exit devices on all types of doors used in this project.
 8. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.

2.9 CLOSERS AND DOOR CONTROL DEVICES

- A. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit depending on size of door, exposure to weather, and anticipated frequency of use.
1. Provide parallel arms for all overhead closers, except as otherwise indicated.

2. Provide metal enclosure plate.
 3. Color & finish of all exposed surfaces to match and to be selected by Architect from manufacturers standard colors.
- B. Access-Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units complying with ANSI A117.1 provisions for door opening force and delayed action closing.
- C. Provide grey resilient parts for exposed bumpers.

2.10 DOOR TRIM UNITS

- A. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine screws or self-tapping screws.
- B. Fabricate protection plates not more than 1-1/2 inches less than door width on hinge side and not more than 1/2 inch less than door width on pull side by height indicated.
1. Metal Plates: Stainless steel, 0.050 inch (U.S. 18 gage).

2.11 WEATHERSTRIPPING AND SEALS

- A. General: Provide continuous weather stripping on exterior doors. Provide noncorrosive fasteners.
- B. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by manufacturer.
- C. Weather stripping at Jambs and Heads: Provide bumper-type resilient insert and metal retainer strips, surface applied unless shown as mortised or semi-mortised, and of following metal, finish, and resilient bumper material:
1. Extruded aluminum with clear anodized finish as selected from manufacturer's standard color range, 0.062-inch minimum thickness of main walls and flanges.
 2. Sponge neoprene conforming to MIL R 6130, Class II (Closed Cell).
 - a. Grade C (67 deg F to 170 deg F, low temperature).
- D. Weather stripping at Door Bottoms: Provide threshold consisting of contact-type resilient insert and metal housing of design and size shown and of following metal, finish, and resilient seal strip:
1. Extruded aluminum with clear anodized finish as selected from manufacturer's standard color range, 0.062-inch minimum thickness of main walls and flanges.
 2. Solid neoprene wiper or sweep seal complying with MIL R 6855, Class II, Grade 40.

2.12 THRESHOLDS

- A. General: Except as otherwise indicated, provide standard metal threshold unit of type and profile as shown or scheduled. Width of threshold shall match width of door frame.
- B. Exterior Hinged or Pivoted Doors: Provide units not less than 3 inches wide, formed to accommodate change in floor elevation where indicated, fabricated to accommodate door hardware and to fit door frames, and as follows:
1. For out-swinging doors provide thermal barrier saddle type with black rigid vinyl between extrusions.

2.13 HARDWARE FINISHES

- A. Match items to the manufacturer's standard color and texture finish for the latch and lock sets (or push-pull units if no latch or lock sets).
- B. Provide finishes that match those established by BHMA or, if none established, match the Architect's sample.
- C. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.
- D. Provide protective lacquer coating on all exposed hardware finishes of brass, bronze, and aluminum, except as otherwise indicated. The suffix "-NL" is used with standard finish designations to indicate "no lacquer."
- E. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18, "Materials and Finishes," including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.

2.14 ELECTRICAL HARDWARE

- A. Furnish wiring diagrams to electrical contractor for use in installing electrical hardware products.**
- B. Electrical contractor to run all wiring and make all final connections for electrified hardware. Hardware supplier shall be responsible to furnish all wiring diagrams to operate electrified hardware. Access control material and electrified hardware to interface at junction boxes.**

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by Architect.
 - 1. "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
- B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.
- C. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- D. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

- E. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 7 Section "Joint Sealers."
- F. Weatherstripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.

3.2 ADJUSTING, CLEANING, AND DEMONSTRATING

- A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
 - 1. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Instruct End User's personnel in the proper adjustment and maintenance of door hardware and hardware finishes.
- D. Six-Month Adjustment: Approximately six months after the date of Substantial Completion, the Installer, accompanied by representatives of the manufacturers of latch sets and locksets and of door control devices, and of other major hardware suppliers, shall return to the Project to perform the following work:
 - 1. Examine and re-adjust each item of door hardware as necessary to restore function of doors and hardware to comply with specified requirements.
 - 2. Consult with and instruct End User's personnel in recommended additions to the maintenance procedures.
 - 3. Replace hardware items that have deteriorated or failed due to faulty design, materials, or installation of hardware units.
 - 4. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.3 HARDWARE SCHEDULE

- A. General: Provide hardware for each door to comply with requirements of Section "Door Hardware," hardware set numbers indicated in door schedule, and in the following schedule of hardware sets.
 - 1. Hardware sets indicate quantity, item, manufacturer and product designation, size and finish or color, as applicable.
 - 2. Provide hardware with US26D finish, unless indicated otherwise.
 - 3. Lockset Designs: Provide the lockset designs designated in the Hardware Schedule or, if by another manufacturer, one that matches those designated:
 - 4. Provide locks with interchangeable cores per requirements of this section.

3.3 Hardware Schedule: See Next Page:

HARDWARE SCHEDULE

A.	Hardware Set No. 1: Door 108A, 109A, 114A, 115A, 116A, 117A, 122A, 123A, 124A, 127A, 128A, 130A, 131A, 132A, 133A & (Add-Alternate – 135A, 136A, 137A & 138A)				
	1.5 pr.	Hinges	Stanley	FBB199 4.5 x 4.5 NRP	US32D
	1	Lock	Yale	AU5407L	US26D
	1	Stop	Quality	119ES	US26D
	3	Silencers			
B.	Hardware Set No. 2: Door 105A, 119A & 202A				
	1.5 pr.	Hinges	Stanley	FBB179 4.5 x 4.5	US26D
	1	Lock	Yale	AU5405L	US26D
	1	Stop	Quality	307	US26D
	1	Kickplate	Quality	8 x 1.5 LDW	US32D
	3	Silencers			
C.	Hardware Set No. 3: Door 106A & 107A				
	1.5 pr.	Hinges	Stanley	FBB179 4.5 x 4.5	US26D
	1	Closer	LCN	4041	ALUM
	1	Push Plate			
	1	Pull			
	1	Kickplate	Quality	8 x 1.5 LDW	US32D
	1	Stop	Quality	307	US26D
	3	Silencers			
D.	Hardware Set No. 4: Door 121A, & 125A				
	1.5 pr.	Hinges	Stanley	FBB179 4.5 x 4.5	US26D
	1	Passage	Yale	AU5401L	US26D
	1	Stop	Quality	302	US26D
	1	Silencers			
E.	Hardware Set No. 5: Door (Add-Alternate – 134A)				
	1.5 pr.	Hinges	Stanley	FBB199 4.5 x 4.5 NRP	US32D
	1	Exit Device	Von Duprin		US32D
	1	Closer	LCN	4041	ALUM
	1	Kickplate	Quality	8 x 1.5 LDW	US32D
	1	Stop	Quality	119ES	US26D
	1	Threshold	Pemko	169A	ALUM
	1	Door Sweep	Pemko	315CN	ALUM
	1 Set	Weatherstrip	Pemko	303AV	ALUM
	1	Cylinder - Doors to receive electric strike for card reader.			
F.	Hardware Set No. 6: Door 113A				
	1.5 pr.	Hinges	Stanley	FBB179 4.5 x 4.5	US26D
	1	Lock	Yale	AU5405L	US26D
	1	Stop	Quality	307	US26D
	1	Kickplate	Quality	8 x 1.5 LDW	US32D
	3	Silencers			
	1	Cylinder - Doors to receive electric strike for card reader.			
G.	Hardware Set No. 7: Door 118A				
	1.5 pr.	Hinges	McKinney	1001 6 x 4.5	US26D
	2	Stops	Quality	307	US26D
	2	Kickplate	Quality	8 x 1.5 LDW	US32D
	2	Push Plate			

- H. **Hardware Set No. 8: Door 101A, 121B, 129A, & (Add-Alternate – 139A), See specification 08410 for all hardware for aluminum doors. All hardware for aluminum door and frame by door supplier except:**
 1 Cylinder - Doors to receive electric strike for card reader.
- I. Hardware Set No. 9: Door 102A & 129B, **See specification 08410 for all hardware for aluminum doors. All hardware for aluminum door and frame by door supplier.**
- J. Hardware Set No. 10: Door ED101, ED102 & ED103
 Existing hardware to be salvaged and installed on replacement door in existing frame.
- K. Hardware Set No. 11: Door ED110 & ED118
 Existing hardware to remain, except replace existing lockset with:
 1 Lock Yale AU 5491LN US26D
 1 Cylinder - Doors to receive electric strike for card reader.
- L. Hardware Set No. 12: Door 103A, 104A, 110A,
 1.5 pr. Hinges Stanley FBB179 4.5 x 4.5 US26D
 Closer LCN 4041 ALUM
 1 Passage Yale AU5401L US26D
 1 Stop Quality 302 US26D
 1 Silencers
- M. **Hardware Set No. 13: Add-Alternate – 139B**
 1.5 pr. Hinges Stanley FBB179 4.5 x 4.5 US26D
 1 Exit Device Von Duprin EL 9847 DT 06 3' US26D
 Closer LCN 4041 ALUM
 1 Stop Quality 302 US26D
 1 Silencers

END OF SECTION 08710

SECTION 09681 - CARPET TILE

PART 1 - GENERAL

1.1 GENERAL

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Contractor shall purchase Material and Installation from the State of Utah Carpet Contract(s).**

1.3 SUMMARY

- A. This Section includes modular, multi level pattern loop carpet tile.
- B. Related Sections include the following:
 - 1. Division 1 Section "Selective Demolition" for removing existing floor coverings.
 - 2. Division 9 Section "Resilient Wall Base and Accessories" for resilient wall base and accessories installed with carpet tile.
 - 3. Division 9 Section "Carpet."

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance. Include installation recommendations for each type of substrate.
- B. Shop Drawings: Show the following:
 - 1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
 - 2. Existing flooring materials to be removed.
 - 3. Existing flooring materials to remain.
 - 4. Carpet tile type, color, and dye lot.
 - 5. Type of subfloor.
 - 6. Type of installation.
 - 7. Pattern of installation.
 - 8. Pattern type, location, and direction.
 - 9. Pile direction.
 - 10. Type, color, and location of insets and borders.
 - 11. Type, color, and location of edge, transition, and other accessory strips.
 - 12. Transition details to other flooring materials.
- C. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
 2. Exposed Edge, Transition, and other Accessory Stripping: 12-inch long Samples.
- D. Product Schedule: For carpet tile. Use same designations indicated on Drawings.
- E. Qualification Data: For Installer.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency.
- G. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:
1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
 2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.
- H. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.
- B. Fire-Test-Response Characteristics: Provide products with the critical radiant flux classification indicated in Part 2, as determined by testing identical products per ASTM E 648 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Mockups: Before installing carpet tile, build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
1. Approved mockups may become part of the completed Work if undamaged at time of Substantial Completion.
- D. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."
- E. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to carpet tile installation including, but not limited to, the following:
1. Review delivery, storage, and handling procedures.
 2. Review ambient conditions and ventilation procedures.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104, Section 5, "Storage and Handling."

1.7 PROJECT CONDITIONS

- A. Comply with CRI 104, Section 7.2, "Site Conditions; Temperature and Humidity" and Section 7.12, "Ventilation."
- B. Environmental Limitations: Do not install carpet tiles until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.

1.8 WARRANTY

- A. Special Warranty for Carpet Tiles: Manufacturer's standard form in which manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.
 - 1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
 - 2. Failures include, but are not limited to, more than 10 percent loss of face fiber, edge raveling, snags, runs, loss of tuft bind strength, dimensional stability, excess static discharge, and delamination.
 - 3. Warranty Period: Lifetime from date of Substantial Completion.

1.9 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Carpet Tile: Full-size units equal to 2% percent of amount installed for each type indicated.

PART 2 - PRODUCTS

2.1 CARPET TILE

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
- B. Products: Subject to compliance with requirements, provide one of the following:
 - 1. Shaw Contract Group; Work*Life collection (design basis).
 - a. Color: #40760 Atmosfera
 - b. Pattern A: #59340 Balance
 - c. Pattern B: #59342 Connect

2. Alternative Manufacturers: (provide color and pattern match similar to design basis above).
 - a. C&A
 - b. Bentley Prince Street
 - c. Interface Floor
- C. Fiber Content: 100 percent nylon 6.
- D. Fiber Type: Eco Solution Q Premium Branded Nylon
- E. Pile Characteristic: Multilevel Pattern Loop pile.
- F. Yarn Twist: 3.00 x 3.00 TPI.
- G. Yarn Count: 1351
- H. Density: 6,480 oz/cu. yd.
- I. Test method in first paragraph below is applicable only to finished level-loop and cut-pile constructions with tuft heights less than 0.25 inch (6.3 mm).
- J. Pile Thickness: .156 inches per ASTM D 6859.
- K. Stitches: 10.16 / inch
- L. Gage: 1/12 per inch.
- M. Surface Pile Weight: 18 oz. /sq. yd.
- N. Total Weight: 95.98 oz. /sq. yd for finished carpet tile.
- O. Primary Backing/Backcoating: Manufacturer's standard composite materials.
- P. Secondary Backing: Manufacturer's standard material.
- Q. Size: 24 by 24 inches (610 by 610 mm).
- R. Applied Soil-Resistance Treatment: Manufacturer's standard material.
- S. Antimicrobial Treatment: Manufacturer's standard material.
- T. Performance Characteristics: As follows:
 1. Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm.
 2. Dry Breaking Strength: Not less than 100 lbf per ASTM D 2646.
 3. Tuft Bind: Not less than 5 lbf (22 N) per ASTM D 1335.
 4. Delamination: Not less than 3.5 lbf/in. (15 N/mm) per ASTM D 3936.
 5. Dimensional Tolerance: Within 1/32 inch (0.8 mm) of specified size dimensions, as determined by physical measurement.
 6. Dimensional Stability: 0.2 percent or less per ISO 2551 (Aachen Test).
 7. Resistance to Insects: Comply with AATCC 24.
 8. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC 165.

9. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC 16, Option E.
10. Antimicrobial Activity: Not less than 2-mm halo of inhibition for gram-positive bacteria; not less than 1-mm halo of inhibition for gram-negative bacteria; no fungal growth; per AATCC 174.
11. Electrostatic Propensity: Less than 3.5 kV per AATCC 134.
12. Environmental Requirements: Provide carpet tile that complies with testing and product requirements of Carpet and Rug Institute's "Green Label Plus" program.

2.2 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.
 1. VOC Limits: Provide adhesives with VOC content not more than 50 g/L when calculated according to 40 CFR 59, Subpart D (EPA method 24).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance. Examine carpet tile for type, color, pattern, and potential defects.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
 1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet tile manufacturer.
 2. Subfloor finishes comply with requirements specified in Division 3 Section "Cast-in-Place Concrete" for slabs receiving carpet tile.
 3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. For wood subfloors, verify the following:
 1. Underlayment over subfloor complies with requirements specified in Division 6 Section "Rough Carpentry."
 2. Underlayment surface is free of irregularities and substances that may interfere with adhesive bond or show through surface.
- D. For metal subfloors, verify the following:

1. Underlayment surface is free of irregularities and substances that may interfere with adhesive bond or show through surface.
- E. For painted subfloors, verify the following:
 1. Perform bond test recommended in writing by adhesive manufacturer.
 2. For raised access flooring systems, verify the following:
 - a. Access floor complies with requirements specified in Division 10 Section "Access Flooring."
 - b. Access floor substrate is compatible with carpet tile and adhesive if any.
 - c. Underlayment surface is flat, smooth, evenly planed, tightly jointed, and free of irregularities, gaps greater than 1/8 inch (3 mm), protrusions more than 1/32 inch (0.8 mm), and substances that may interfere with adhesive bond or show through surface.
- F. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with CRI 104, Section 6.2, "Site Conditions; Floor Preparation," and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile installation.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch (3 mm) wide or wider and protrusions more than 1/32 inch (0.8 mm), unless more stringent requirements are required by manufacturer's written instructions.
- C. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by carpet tile manufacturer.
- D. Clean metal substrates of grease, oil, soil and rust, and prime if directed by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminum surfaces, to remove metal oxides, immediately before applying adhesive.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 INSTALLATION

- A. General: Comply with CRI 104, Section 14, "Carpet Modules," and with carpet tile manufacturer's written installation instructions.
- B. Installation Method: As recommended in writing by carpet tile manufacturer.
- C. Maintain dye lot integrity. Do not mix dye lots in same area.
- D. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.

- E. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.
- G. Install pattern parallel to walls and borders.
- H. Stagger joints of carpet tiles so carpet tile grid is offset from access flooring panel grid. Do not fill seams of access flooring panels with carpet adhesive; keep seams free of adhesive.

3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing carpet tile:
 - 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet tile manufacturer.
 - 2. Remove yarns that protrude from carpet tile surface.
 - 3. Vacuum carpet tile using commercial machine with face-beater element.
- B. Protect installed carpet tile to comply with CRI 104, Section 16, "Protection of Indoor Installations."
- C. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION 09681