

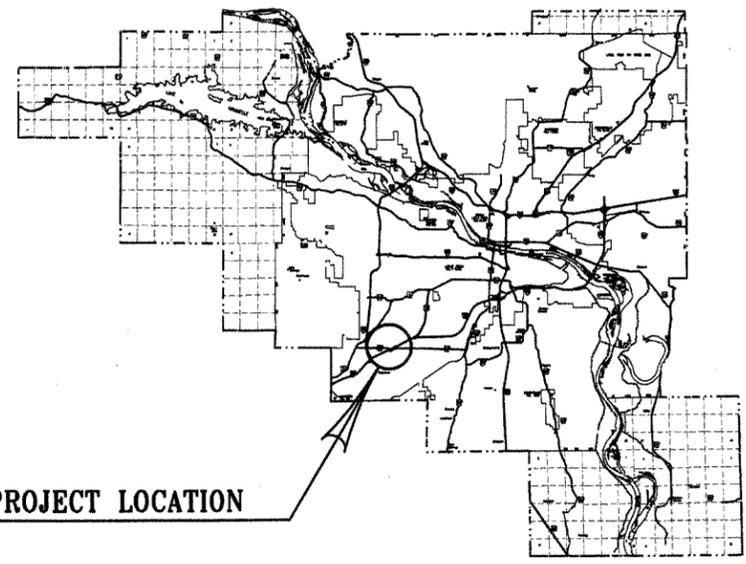
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO.							1	

4 PUBLIC TRANSPORTATION ADMINISTRATION FACILITY (LR)(S)

ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT  
 CONSTRUCTION PLANS FOR NOT - TO - SCALE

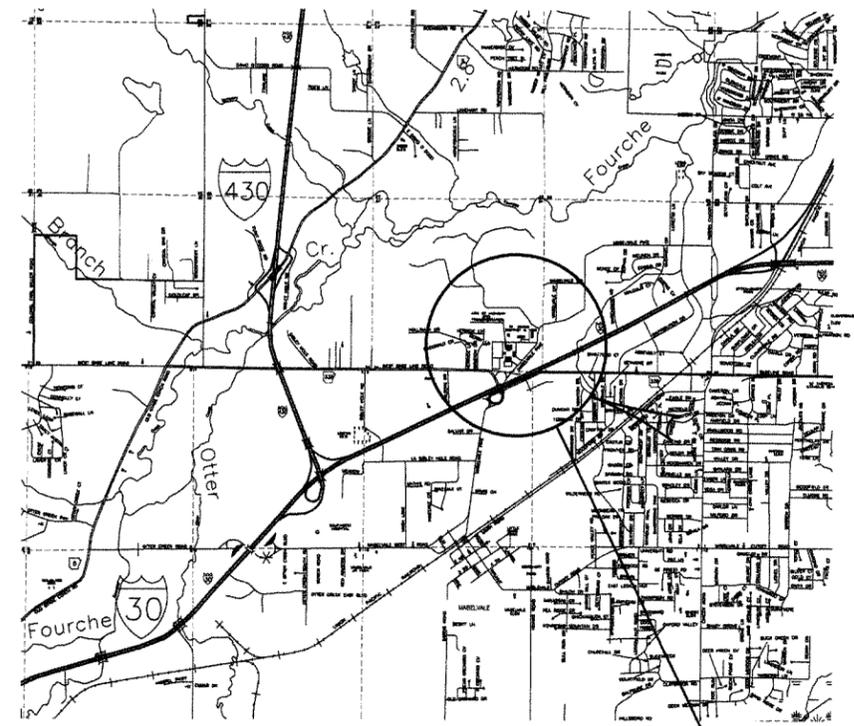
# PUBLIC TRANSPORTATION ADMINISTRATION FACILITY (LR)(S)

AHTD JOB NO. 061385  
 FTA JOB NO. ARPT01  
 FTA GRANT NO. AR-86X001  
 ROUTE 338 SECTION 1  
 PULASKI COUNTY



PROJECT LOCATION

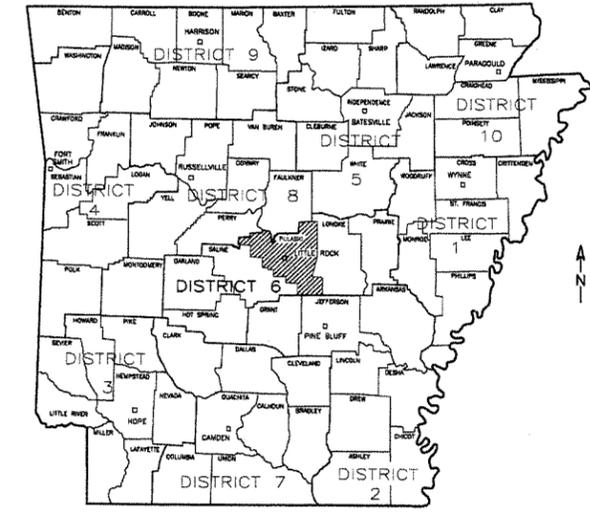
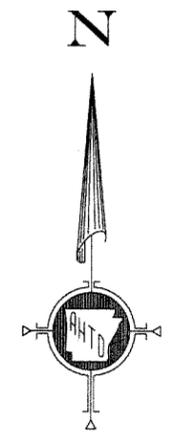
VICINITY MAP



PROJECT LOCATION

MIDPOINT OF PROJECT

LONGITUDE 92° 23' 00"  
 LATITUDE 34° 40' 15"



PULASKI COUNTY



CONSTRUCTION DOCUMENTS

ARKANSAS STATE HIGHWAY AND  
 TRANSPORTATION DEPARTMENT  
 PUBLIC TRANSIT OFFICE



ARCHITECT OF RECORD

**CROMWELL**

101 south spring street little rock, ar 72201  
 501.376.2900 cromwell.com

STRUCTURAL ENGINEER  
 H. JAMES ENGSTROM & ASSOCIATES, INC.  
 1100 WEST SECOND ST.  
 LITTLE ROCK, AR 72201  
 P: 501.376.7246 F: 501.376.6627

I hereby certify that these plans and specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire Prevention Code for the State of Arkansas.

*Robert W. Keltner* 12/18/12  
 Bob Keltner, AR Architect Date

CROMWELL ARCHITECTS ENGINEERS, INC.  
 Architects Engineers  
 101 S. Spring Street  
 Little Rock, Arkansas



Issue Date 14-DECEMBER-2012 Project Number 2012-102

Drawing Title

TITLE SHEET

Drawing Number G-001



### CONSTRUCTION DATA

PROJECT NAME: ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT PUBLIC TRANSIT OFFICE ADDITION  
 ADDRESS: I-30, LITTLE ROCK, AR  
 BUILDING AREA: EXISTING: 10,897 SF  
 ADDITION: 4,643 SF  
 OCCUPANCY: BUSINESS (B)  
 CONSTRUCTION TYPE: 2B  
 OWNER: STATE OF ARKANSAS  
 ALL REQUIRED TESTING AND INSPECTION WILL BE PAID FOR BY THE CONTRACTOR.

### GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. EDITION OF 2003, AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

- NUMBER TITLE  
 ERRATA - - - ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS  
 JOB 061385 - - INTERNET BIDDING  
 JOB 061385 - - COMPETENCY OF BIDDERS  
 JOB 061385 - - PROJECT MANUAL  
 JOB 061385 - - STANDARD SPECIFICATIONS APPLICABILITY  
 JOB 061385 - - BUILDER'S RISK INSURANCE  
 JOB 061385 - - AMERICAN RECOVERY AND REINVESTMENT ACT REQUIRED CONTRACT PROVISION TO IMPLEMENT SECTION 902  
 JOB 061385 - - AMERICAN RECOVERY AND REINVESTMENT ACT EMPLOYEE REPORTING  
 JOB 061385 - - DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES  
 SS 102-1 - - - BIDDING REQUIREMENTS AND CONDITIONS  
 SS 105-3 - - - CONTROL OF WORK  
 SS 107-1 - - - WORKER VISIBILITY  
 SP - - - LIQUIDATED DAMAGES



SHEET INDEX				
NO.	DRAWING NO.	TITLE	REVISION NO.	DATE
1	G-001	TITLE SHEET		12/14/12
2	G-101	INDEX AND CODE ANALYSIS		12/14/12
3	GI101	LIFE SAFETY PLAN		12/14/12
4	VF-101	SITE SURVEY		12/14/12
5	CD-101	SITE DEMOLITION PLAN		12/14/12
6	CS-101	SITE LAYOUT PLAN		12/14/12
7	CG-101	SITE GRADING & DRAINAGE PLAN		12/14/12
8	CG-701	SITE EROSION & SEDIMENTATION CONTROL PLAN		12/14/12
9	CU-101	SITE UTILITY PLAN		12/14/12
10	C-501	SITE DETAILS		12/14/12
11	C-502	SITE DETAILS		12/14/12
12	S-001	STRUCTURAL QUALITY CONTROL		12/14/12
13	S-002	GENERAL NOTES		12/14/12
14	S-101	FOUNDATION PLAN		12/14/12
15	S-201	FOUNDATION DETAILS		12/14/12
16	S-202	FOUNDATION DETAILS		12/14/12
17	S-301	FRAMING PLAN		12/14/12
18	S-302	PARTIAL FRAMING PLANS		12/14/12
19	S-401	BRACING ELEVATIONS		12/14/12
20	S-402	WALL SECTIONS		12/14/12
21	S-501	FRAMING DETAILS		12/14/12
22	S-502	FRAMING DETAILS		12/14/12
23	S-503	FRAMING DETAILS		12/14/12
24	S-504	FRAMING DETAILS		12/14/12
25	S-505	FRAMING DETAILS		12/14/12
26	S-506	FRAMING DETAILS		12/14/12
27	S-507	SPECIAL JOINT DIAGRAMS		12/14/12

SHEET INDEX				
NO.	DRAWING NO.	TITLE	REVISION NO.	DATE
28	A-001	MOUNTING HTS., ABBREVIATIONS AND SYMBOLS		12/14/12
29	A-002	PARTITION SCHEDULE		12/14/12
30	A-003	TYPICAL EXTERIOR COLD FORMED STEEL FRAMING		12/14/12
31	A-100	EXISTING DEMOLITION AND NEW RAMP PLAN		12/14/12
32	A-101	GROUND FLOOR PLAN		12/14/12
33	A-101R	GROUND FLOOR REFLECTED CEILING PLAN		12/14/12
34	A-102	ROOF PLAN		12/14/12
35	A-201	EXTERIOR ELEVATIONS		12/14/12
36	A-202	EXTERIOR ELEVATIONS		12/14/12
37	A-301	BUILDING SECTIONS		12/14/12
38	A-302	BUILDING SECTIONS		12/14/12
39	A-401	WALL SECTIONS		12/14/12
40	A-402	WALL SECTIONS		12/14/12
41	A-403	WALL SECTIONS		12/14/12
42	A-404	WALL SECTIONS		12/14/12
43	A-501	EXTERIOR DETAILS		12/14/12
44	A-502	EXTERIOR DETAILS		12/14/12
45	A-503	EXTERIOR DETAILS		12/14/12
46	A-504	EXTERIOR DETAILS		12/14/12
47	A-505	EXTERIOR DETAILS		12/14/12
48	A-506	EXTERIOR DETAILS		12/14/12
49	A-507	EXTERIOR DETAILS		12/14/12
50	A-701	INTERIOR ELEVATIONS		12/14/12
51	A-702	INTERIOR ELEVATIONS		12/14/12
52	A-801	MILLWORK DETAILS		12/14/12
53	A-802	MILLWORK DETAILS		12/14/12
54	A-803	SIGNAGE PLAN		12/14/12
55	A-901	DOOR SCHEDULE AND DETAILS		12/14/12
56	A-902	FINISH SCHEDULE		12/14/12
57	A-903	TOILET PLANS & DETAILS		12/14/12

SHEET INDEX				
NO.	DRAWING NO.	TITLE	REVISION NO.	DATE
58	P-001	PLUMBING NOTES AND LEGEND		12/14/12
59	P-101	PLUMBING PLAN		12/14/12
60	P-501	PLUMBING DETAILS		12/14/12
61	P-502	PLUMBING DETAILS		12/14/12
62	P-601	PLUMBING SCHEDULES		12/14/12
63	P-901	PLUMBING WASTE AND VENT RISER		12/14/12
64	M-001	HVAC LEGEND		12/14/12
65	M-101	HVAC PLAN		12/14/12
66	M-501	HVAC DETAILS		12/14/12
67	M-601	HVAC SCHEDULES		12/14/12
68	M-701	HVAC CONTROLS		12/14/12
69	M-702	HVAC CONTROLS		12/14/12
70	E-001	ELECTRICAL LEGEND		12/14/12
71	ES101	ELECTRICAL SITE PLAN		12/14/12
72	EL101	LIGHTING PLAN		12/14/12
73	EP101	POWER PLAN		12/14/12
74	EP102	HVAC POWER PLANS		12/14/12
75	ET101	SYSTEMS PLAN		12/14/12
76	E-501	ELECTRICAL DETAILS		12/14/12
77	E-502	ELECTRICAL DETAILS		12/14/12
78	E-601	ELECTRICAL SINGLE LINE DIAGRAM & SCHEDULES		12/14/12

No.	Date	Description
1	01-02-2013	ADDENDUM 001



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
 PUBLIC TRANSIT OFFICE



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Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	INDEX AND CODE ANALYSIS		
Drawing Number	G-101		
2 of 78			

**APPLICABLE CODES**

Current Arkansas Building Codes:

Arkansas Fire Prevention Code 2007  
Volume I International Fire Code 2006  
Volume II International Building Code 2006

Arkansas Plumbing Code 2007  
International Plumbing Code 2006

Arkansas Mechanical Code 2010  
International Mechanical Code 2009

Arkansas Electric Code 2012  
National Electric Code 2011

Arkansas Energy Code 2011  
ASHRE 90.1 2001 (Changes to 2007 edition on January 2013)

ADA Accessibility Guidelines / ANSI A117.1

OCCUPANCY: (Chapter 3)

B Business per Section 304

HEIGHT AND AREA: (Chapter 5)

CONSTRUCTION CLASSIFICATION: Type IIB Non Sprinkled

TABULAR HEIGHT & AREA (TABLE 503):

23,000 sf Per Floor  
4 stories  
55 ft.

ACTUAL HEIGHT & AREA (TABLE 503):

For the purposes of Height and Area determination, the new building will be considered as an addition to the existing Planning Building  
4,643 sf (New Building) 10,897 sf (Existing Building)  
15,540 sf (Combined Building)  
1 story  
16'-4"

The Training Room is an Accessory Assembly area, but is not considered a separate occupancy because it is less than 750 s.f. per 508.3.1, Exception 1

The Storage Room is being considered as an incidental use area to the Business occupancy. It is over 100 s.f. and must have 1 hour separation per Table 508.2

TYPE OF CONSTRUCTION (Chapter 6)

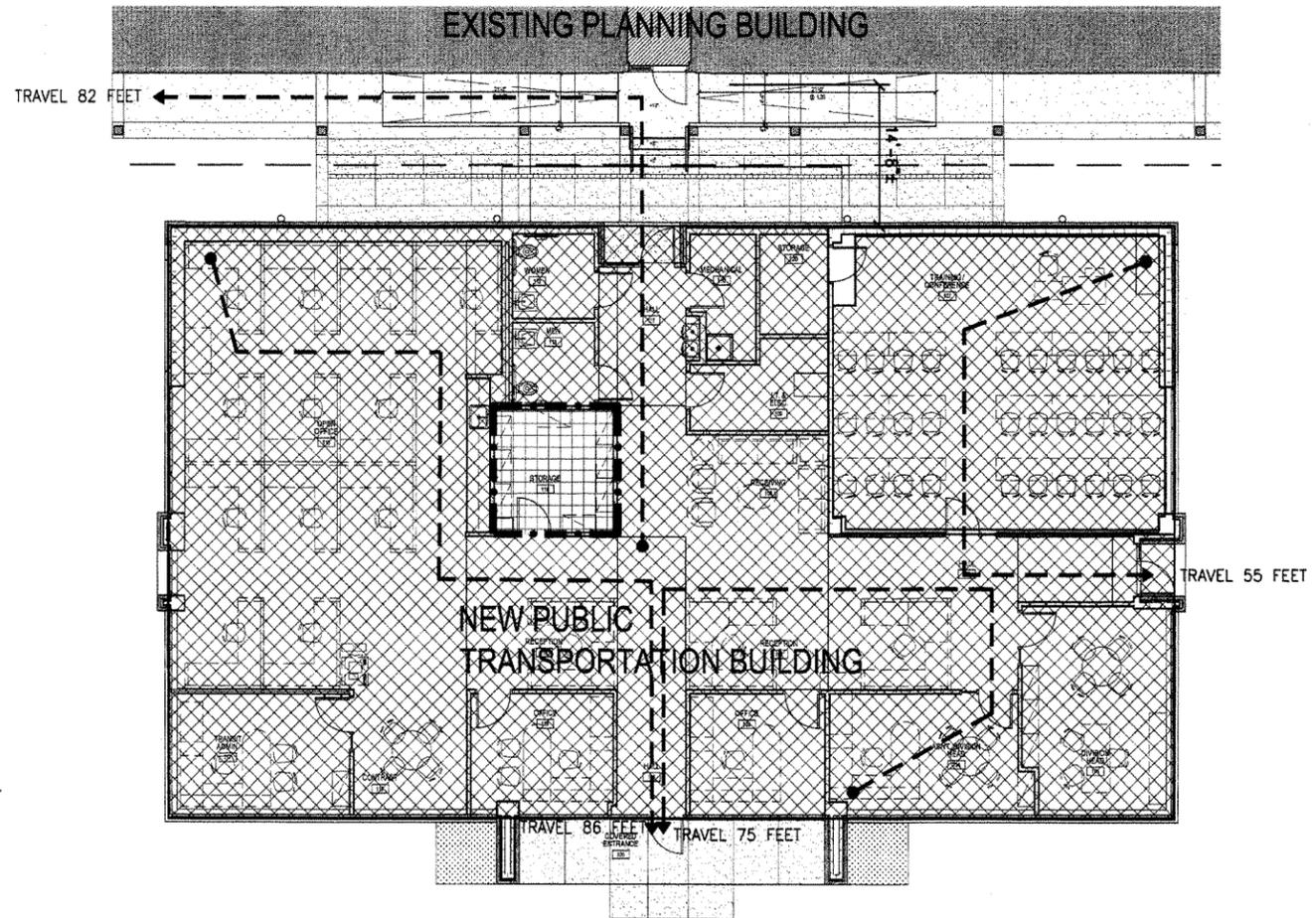
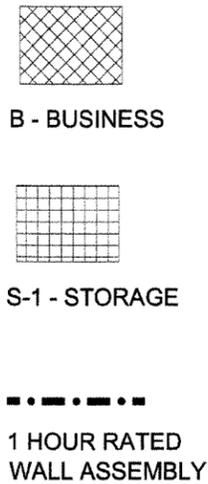
BUILDING ELEMENT (from Table 601 & 602)	REQUIRED RATING Type IIB
Structural Frame including columns, girders, trusses	0 hour
Bearing Walls	0 hour
Exterior	0 hour
Interior	0 hour
NonBearing Walls and Partitions	0 hour
Exterior	0 hour
Interior	0 hour
Floor Construction including support beams & joists	0 hour
Roof Construction including support beams & joists	0 hour

Exterior wall adjacent to existing building is separated by greater than 10', so no fire rating is required per Table 602

FIRE PROTECTION (Chapter 7)

OPENING PROTECTIVE FIRE PROTECTION RATINGS (Per Table 714.2)

One Hour Fire Barriers require ¼ hr. opening protection assembly at incidental use separation per Table 715.4



MEANS OF EGRESS (Chapter 10)

ALLOWABLE EXIT TRAVEL DISTANCE (Per Table 1016.1) 200 Feet

OCCUPANT LOAD (Section 1004)

ROOM	AREA	SQ. FT. PER OCCUPANT	OCCUPANT LOAD
New Business Occupancy	3,545 s.f.	100 gross	36
New Training Room	744 s.f.	15 net	49
New Storage/Mechanical/Electrical	354 s.f.	300 gross	2
			87
Existing Business Occupancy	10,897 s.f.	100 gross	109

ACCESSIBILITY (CHAPTER 11)

All provisions of the Americans with Disabilities Act shall be complied with whether or not they are incorporated into The Arkansas Fire Code and IBC 2006 with Arkansas Amendments.

ARKANSAS PLUMBING CODE

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (Table 403.1)

For purposes of calculating plumbing fixtures, the new building is combined with the existing Planning Building

Occupancy B

Water closets and urinals (REQUIRED):  
1 per 25 (first 50); 1 per 50 (remainder)  
[(50 / 25) + (146 / 50)] = 2 + 3 = 5 TOTAL

Water closets and urinals (PROVIDED):  
Male: 4 Existing + 1 New = 5 Total  
Female: 2 Existing + 1 New = 3 Total  
8 TOTAL

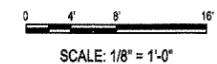
Lavatories (REQUIRED):  
1 per 40 (first 80); 1 per 80 (remainder)  
[(80 / 40) + (116 / 80)] = 2 + 2 = 4 TOTAL

Lavatories (PROVIDED):  
Male: 2 Existing + 1 New = 3 Total  
Female: 2 Existing + 1 New = 3 Total  
6 TOTAL

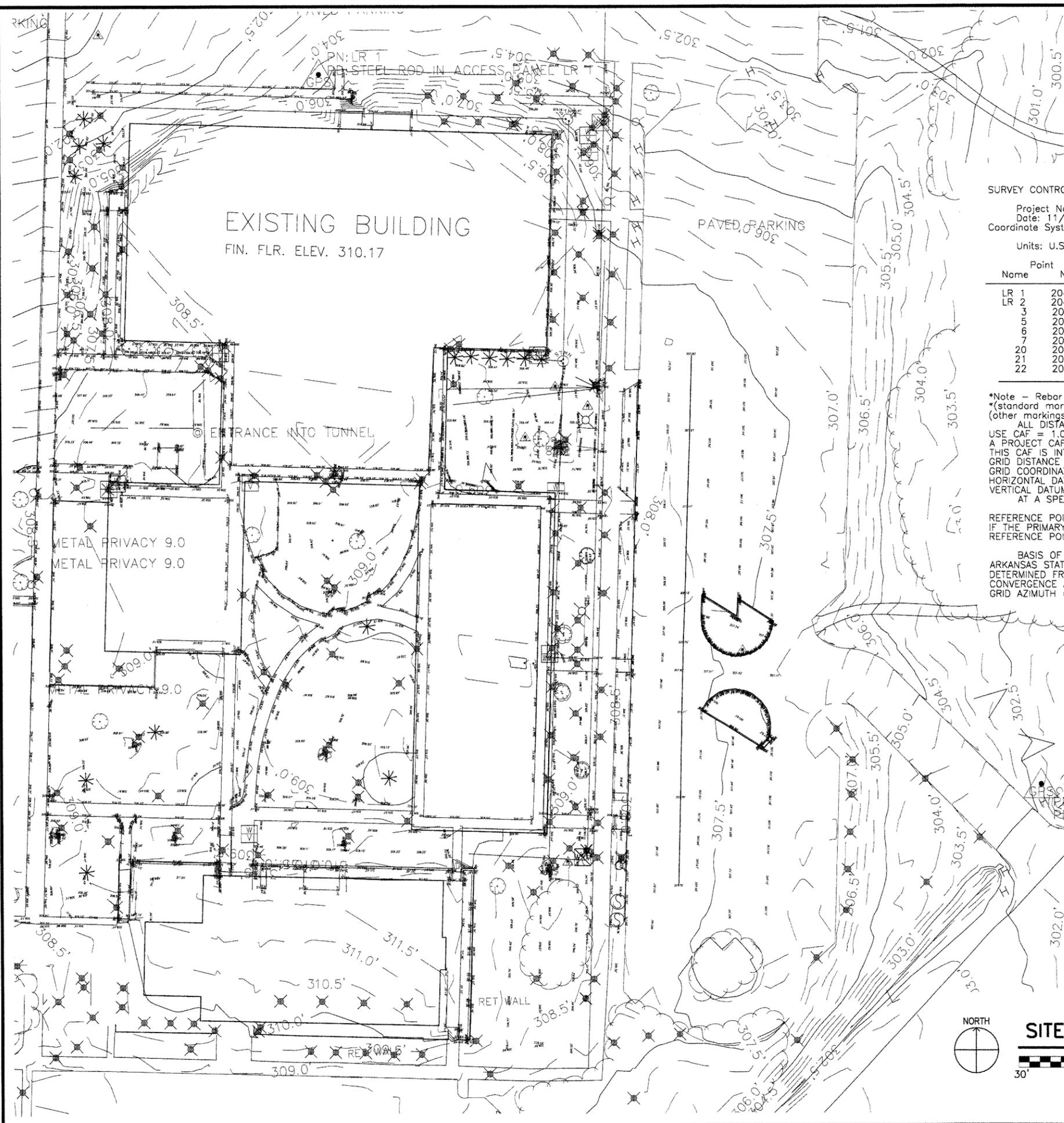
Drinking Fountains (REQUIRED):  
1 per 100 [(196 / 100)] = 2 total, at least one wheelchair accessible

Drinking Fountains (PROVIDED):  
1 Existing + 2 New (H.C.) = 3 TOTAL

Other:  
1 service sink (Existing)



No.	Date
Description	
<p><b>CONSTRUCTION DOCUMENTS</b></p>	
<p><b>ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT PUBLIC TRANSIT OFFICE</b></p>	
<p>ARCHITECT OF RECORD</p> <p><b>CROMWELL</b></p> <p>101 south spring street little rock, ar 72201 501.372.2900 cromwell.com</p> <p>STRUCTURAL ENGINEER H. JAMES ENGSTROM &amp; ASSOCIATES, INC. 1100 WEST SECOND ST. LITTLE ROCK, AR 72201 P: 501.376.7246 F: 501.376.6827</p>	
<p>Issue Date: 14-DECEMBER-2012</p> <p>Drawing Title: LIFE SAFETY PLAN</p>	<p>Project Number: 2012-102</p> <p>Drawing Number: GI101</p> <p style="text-align: right;">3 of 78</p>



ALL DATA THAT COULD RE-PRODUCED FROM THE ARCHIVED FILES WAS PROCESSED ON THE NEW HARN COORDINATES ESTABLISHED BY S5100 11/2012. ALL PREVIOUS DATA WAS ARCHIVED IN FILE S061045\_OLD.ZIP ON EDM.DTM HAD TO HAVE THE X & Y COORDINATES ROTATED AND TRANSLATED BEFORE BEING IMPORTED INTO THE .DTM FILE. DATA PROCESSED BY LLC 11/2012, ORTHO WILL NOT LINE UP DUE TO THE WAY IT WAS CONSTRAINED.

**SURVEY CONTROL COORDINATES**

Project Name: s061045  
 Date: 11/21/2012  
 Coordinate System: ARKANSAS STATE PLANE -SOUTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND.  
 Units: U.S. SURVEY FOOT

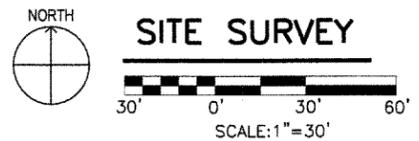
Name	Point	Northing	Easting	Elev	Feature	Description
LR 1	2042602.2213	1197363.9755	304.58	GPS	STEEL ROD IN ACCESS PANEL LR 1	
LR 2	2042759.5809	1196826.2803	290.35	GPS	STEEL ROD IN ACCESS PANEL LR 2	
3	2042202.3323	1197773.8930	301.92	GPS	AHTD CAP	
5	2042700.4640	1196778.3026	291.55	GPS	AHTD CAP 90600001	
6	2042672.2586	1197665.1758	300.89	GPS	AHTD CAP 90600002	
7	2042097.8373	1198521.5786	286.82	GPS	AHTD CAP GPS 90600003	
20	2042596.8060	1198120.5495	295.46	CTL	5/8" REBAR 2" ALUMN. CAP	
21	2041964.0439	1197534.2856	306.57	CTL	5/8" REBAR 2" ALUMN. CAP	
22	2042368.3532	1197049.9345	302.24	CTL	5/8" REBAR 2" ALUMN. CAP	

\*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped (standard markings common to all caps), or as indicated (other markings indicated in the point description of the individual point).  
 ALL DISTANCES ARE GROUND.  
 USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.  
 A PROJECT CAF OF 0.99995239 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.  
 THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.  
 GRID DISTANCE = GROUND DISTANCE X CAF.  
 GRID COORDINATES ARE STORED UNDER FILE NAME s061045gi.ctl  
 HORIZONTAL DATUM: NAD 83 (1997)  
 VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE AT A SPECIFIC POINT.

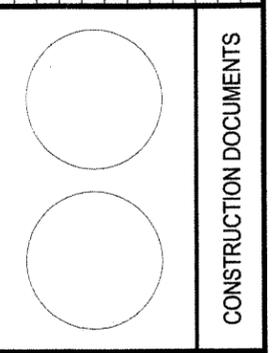
REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED. REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:  
 ARKANSAS STATE PLANE GRID BEARINGS -0302-SOUTH ZONE  
 DETERMINED FROM GPS CONTROL POINTS: LR-1 & LR-2  
 CONVERGENCE ANGLE: 0-12-50.8 LEFT/RIGHT AT LT:34-40-21.4 LG:092-22-57.2  
 GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

NOTE:  
 SURVEY PROVIDED BY THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT.



No.	Date	Description

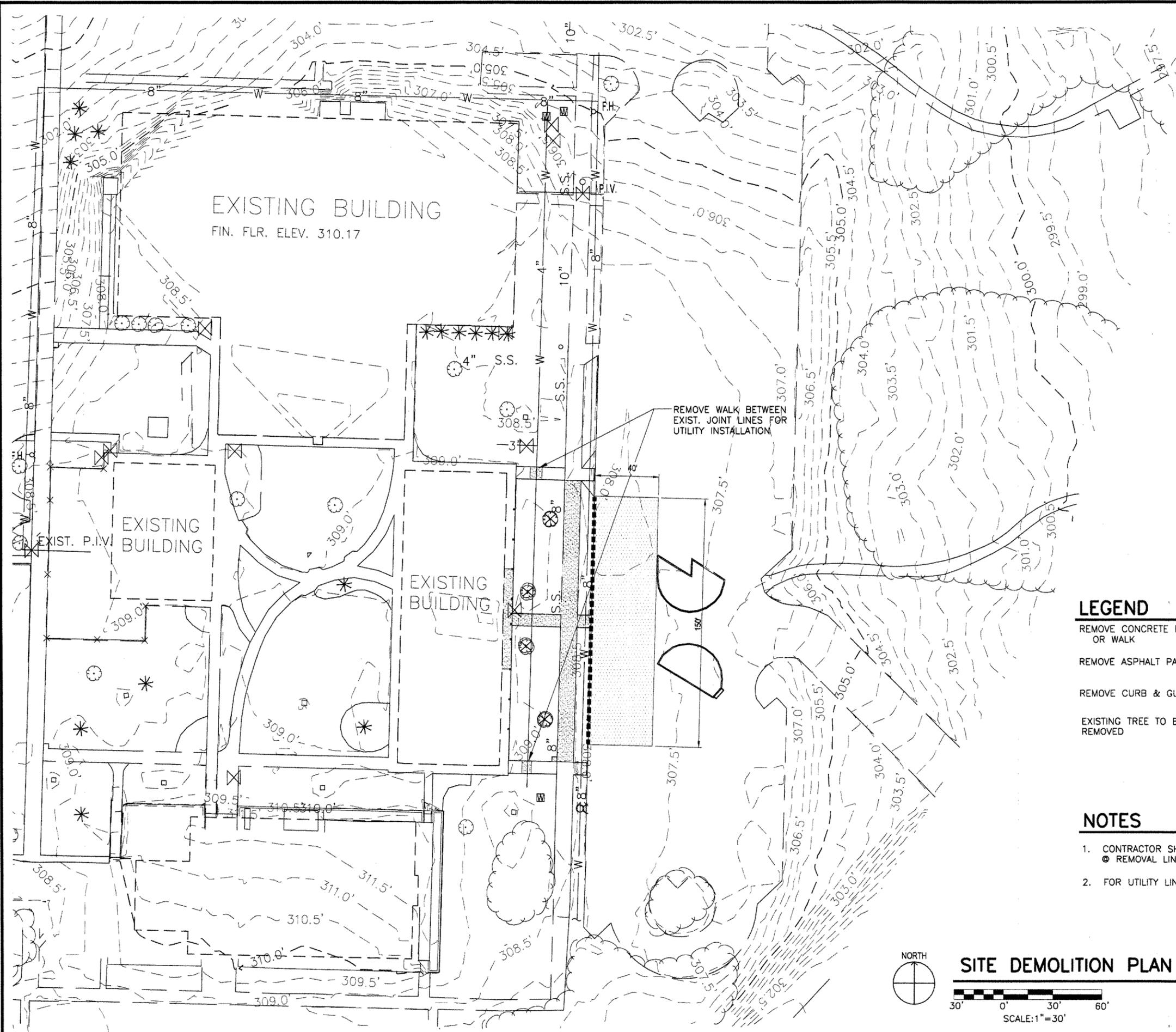


**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE**

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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>SITE SURVEY</b>	
Drawing Number <b>VF101</b>	
4 of 78	

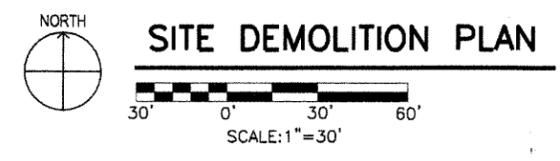


**LEGEND**

- REMOVE CONCRETE PAVEMENT OR WALK
- REMOVE ASPHALT PAVEMENT
- REMOVE CURB & GUTTER
- EXISTING TREE TO BE REMOVED

**NOTES**

1. CONTRACTOR SHALL SAW CUT IMPROVEMENTS  
 ● REMOVAL LINES.
2. FOR UTILITY LINE REMOVALS SEE CG101 & CU101.



**SITE DEMOLITION PLAN**

No.	Date	Description



CONSTRUCTION DOCUMENTS

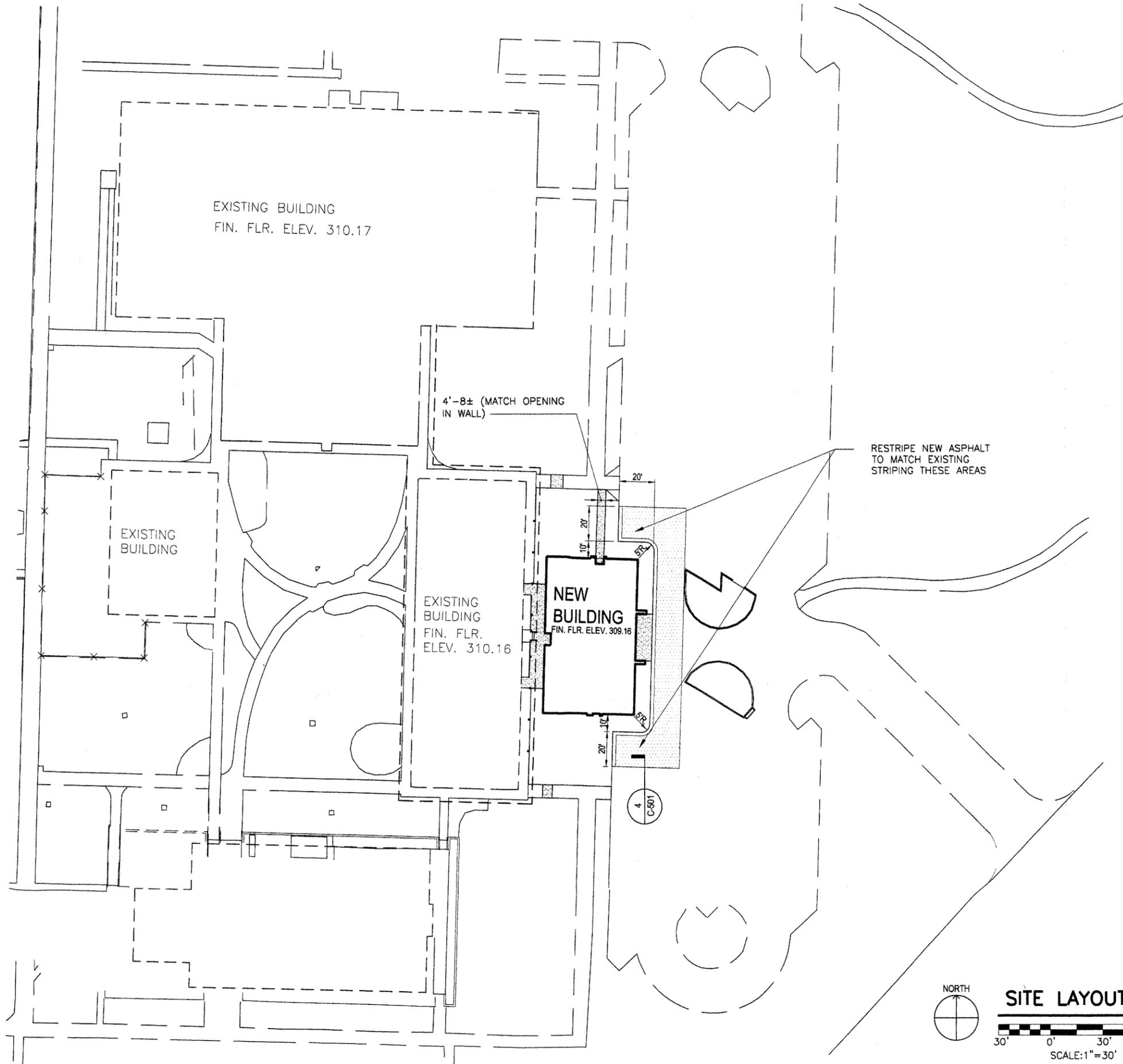
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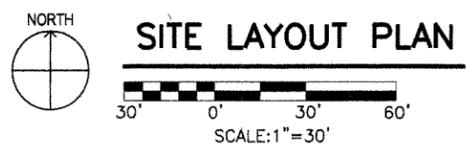
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 LITTLE ROCK, AR 72201  
 P: 501.376.7246 F: 501.376.6627

Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>SITE DEMOLITION PLAN</b>	
Drawing Number <b>CD101</b>	
5 of 78	



LEGEND		DETAIL REFERENCE
NEW ASPHALT PAVEMENT		1 C-501
NEW CONCRETE WALK		2 C-501
NEW CURB & GUTTER		3 C-501

- NOTES:**
1. PARKING LOT STRIPING SHALL BE 4" WIDE, WHITE NON-REFLECTIVE TRAFFIC PAINT. ZONE STRIPING SHALL BE @ 2' CENTERS AND AT 45° TO LINE OF TRAFFIC.
  2. DIMENSIONS TO CURBS ARE TO BACK OF CURB. DIMENSIONS TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING WALL.



No.	Date	Description



CONSTRUCTION DOCUMENTS

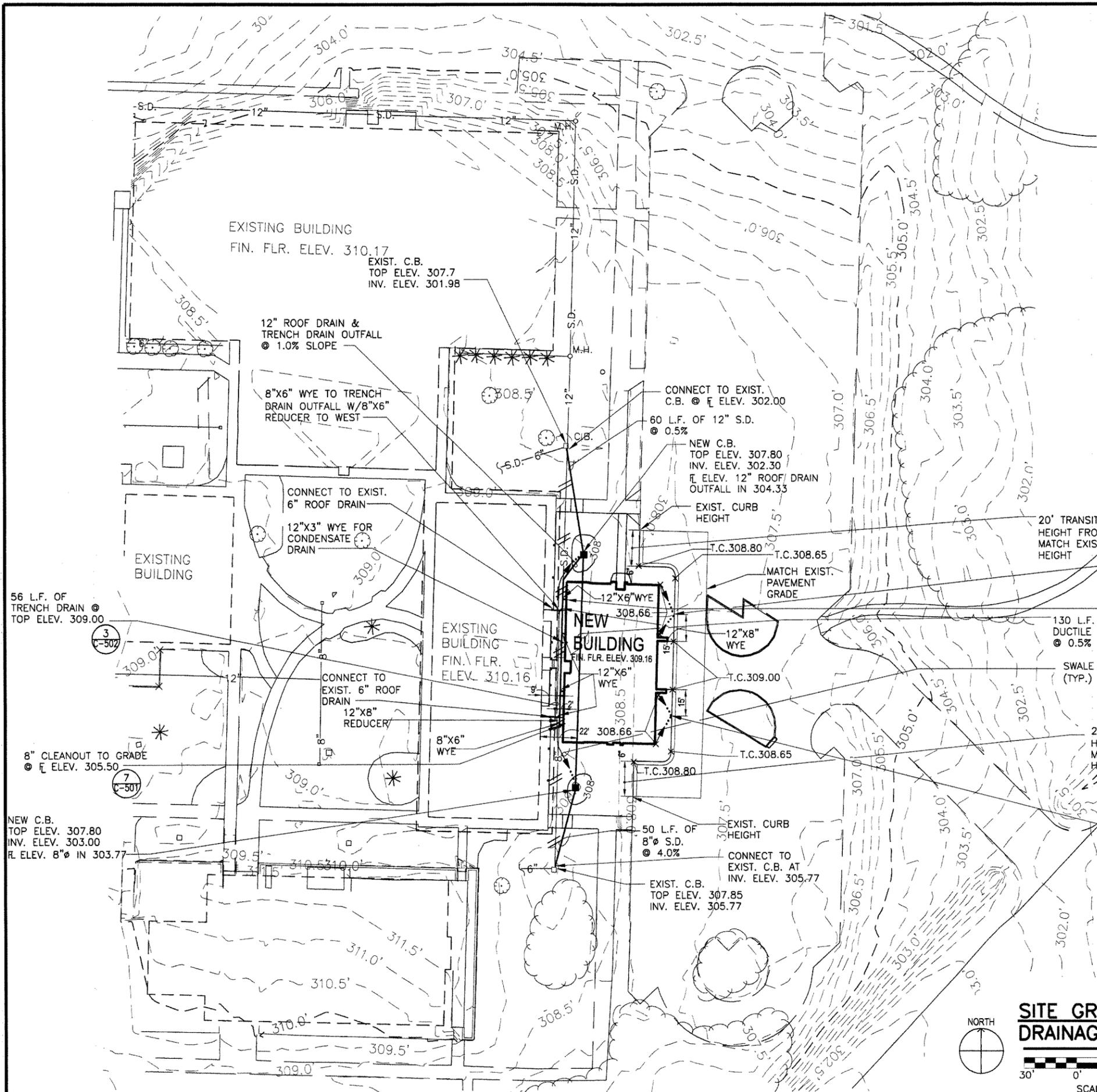
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Issue Date	14-DECEMBER-2012	Project Number	2012-102
SITE LAYOUT PLAN			
Drawing Number	CS101		
6 of 78			



**LEGEND**

- EXISTING GRADE CONTOUR (0.5 FOOT INTERVAL) — 308.5'
- EXISTING GRADE CONTOUR (5 FOOT INTERVAL) — 305.0'
- FINISHED GRADE CONTOUR (1 FOOT INTERVAL) — 259
- FINISHED GRADE CONTOUR (5 FOOT INTERVAL) — 250
- FINISHED SPOT ELEVATION (T.C.=TOP OF CURB) X T.C.384.00
- NEW CATCH BASIN (C.B.) ■
- EXIST. TREE TO REMAIN \* OR ○
- REMOVE EXIST. STORM DRAIN // S.D. //

DETAIL REFERENCE

1  
C-502

**NOTES:**

1. MAXIMUM WALK CROSS SLOPE SHALL BE 2%.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL SPREAD 4" TOPSOIL & INSTALL SOD & FERTILIZER ON ALL DISTURBED EARTH SURFACES RESULTING FROM THE CONTRACTOR'S OPERATIONS, UNLESS SHOWN OTHERWISE.
4. DUCTILE IRON STORM DRAIN UNDER & WITHIN 10' OF BUILDING SHALL BE BACKFILLED W/ FLOWABLE FILL TO ELEVATION 306.00.

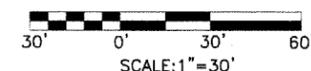
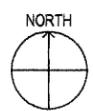
2' WIDE CURB CUT W/ 3' TRANSITIONS EITHER SIDE FOR DRAINAGE @ PAVEMENT ELEV. 308.35

CONNECT TO NEW ROOF DRAIN DOWNSPOUTS-TYP. 4 PLACES (SEE ARCH. FOR CONNECTION REQUIREMENTS)

20' TRANSITION CURB HEIGHT FROM 6" TO MATCH EXIST. CURB HEIGHT

2' WIDE CURB CUT W/ 3' TRANSITIONS EITHER SIDE FOR DRAINAGE @ PAVEMENT ELEV. 308.35

**SITE GRADING & DRAINAGE PLAN**



SCALE: 1" = 30'



CONSTRUCTION DOCUMENTS

ARKANSAS STATE HIGHWAY AND  
 TRANSPORTATION DEPARTMENT  
 PUBLIC TRANSIT OFFICE



ARCHITECT OF RECORD



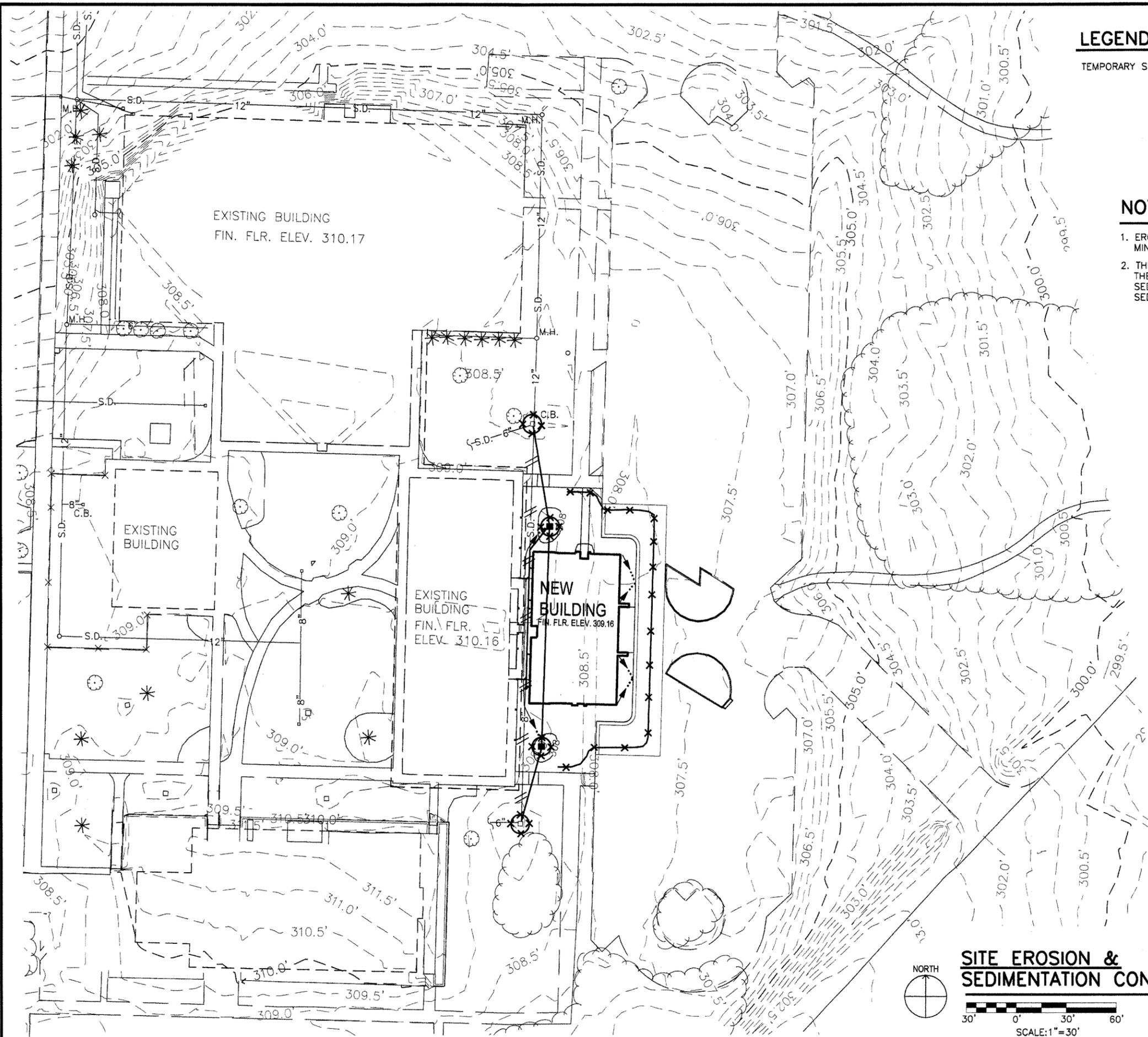
101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

STRUCTURAL ENGINEER  
H. JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.378.7246 F: 501.378.6627

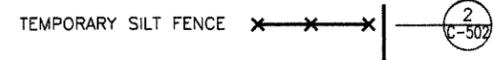
Issue Date 14-DECEMBER-2012 Project Number 2012-102

Drawing Title  
**SITE GRADING & DRAINAGE PLAN**

Drawing Number  
**CG101**  
7 of 78



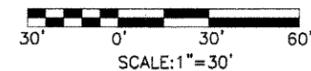
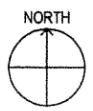
**LEGEND**



**NOTES:**

1. EROSION & SEDIMENTATION CONTROLS SHOWN ARE THE MINIMUM REQUIRED FOR THIS PROJECT.
2. THE SITE DISTURBANCE IS LESS THAN 1 AC., BUT THE CONTRACTOR SHALL PROVIDE EROSION & SEDIMENTATION CONTROLS AS NECESSARY TO MINIMIZE SEDIMENT MIGRATION OFF-SITE.

**SITE EROSION & SEDIMENTATION CONTROL PLAN**



No.	Date	Description



CONSTRUCTION DOCUMENTS

ARKANSAS STATE HIGHWAY AND  
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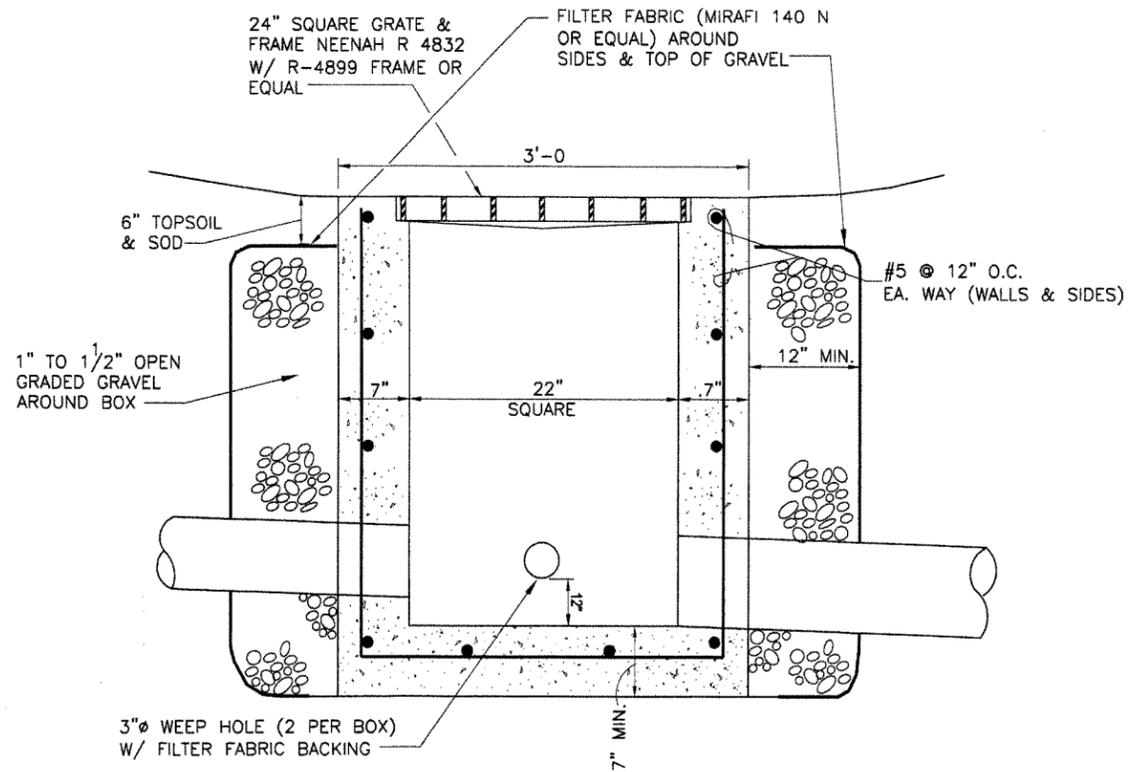
Issue Date: 14-DECEMBER-2012 Project Number: 2012-102

Drawing Title  
**SITE EROSION & SEDIMENTATION CONTROL PLAN**

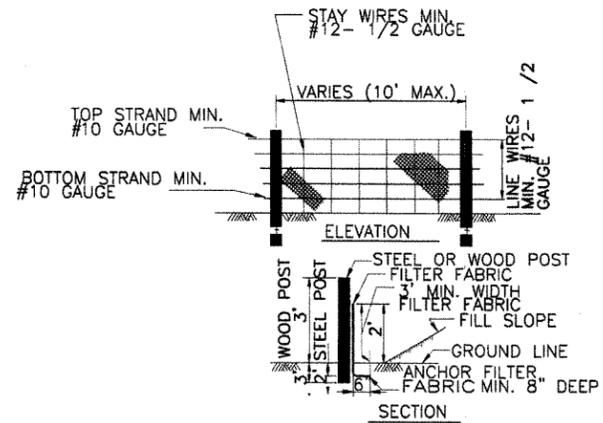
Drawing Number  
**CG701**  
 8 of 78







**1 CATCH BASIN DETAIL**  
NOT TO SCALE

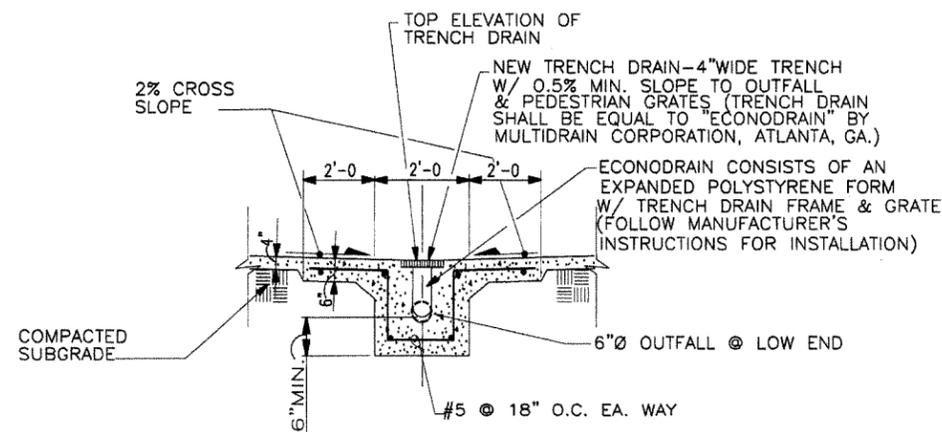


**GENERAL NOTES:**

- SILT FENCE SHALL BE INSTALLED OUTSIDE TOE OF EARTHFILL EMBANKMENTS. MAY ALSO BE INSTALLED AROUND ALL STORM DRAIN INLETS, & MANHOLES AS DIRECTED.
- WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MIN. OF 6 LINE WIRES WITH 12" STAY SPACING.
- FILTER FABRIC SHALL BE A MINIMUM OF 3' IN WIDTH AND SHALL BE FASTENED SECURELY TO THE WIRE.
- STEEL POSTS SHALL BE 5' IN HEIGHT AND BE OF SELF-FASTENER ANGLE STEEL TYPE.
- WIRE FABRIC SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN #9 WIRE STAPLES 1 5/8" LONG.
- CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT, AS REQUIRED.
- HAY BALES (DOUBLE STAKED, TIGHTLY JOINTED, & EMBEDDED 6" INTO SOIL) MAY BE USED IN LIEU OF DETAILED FENCE.

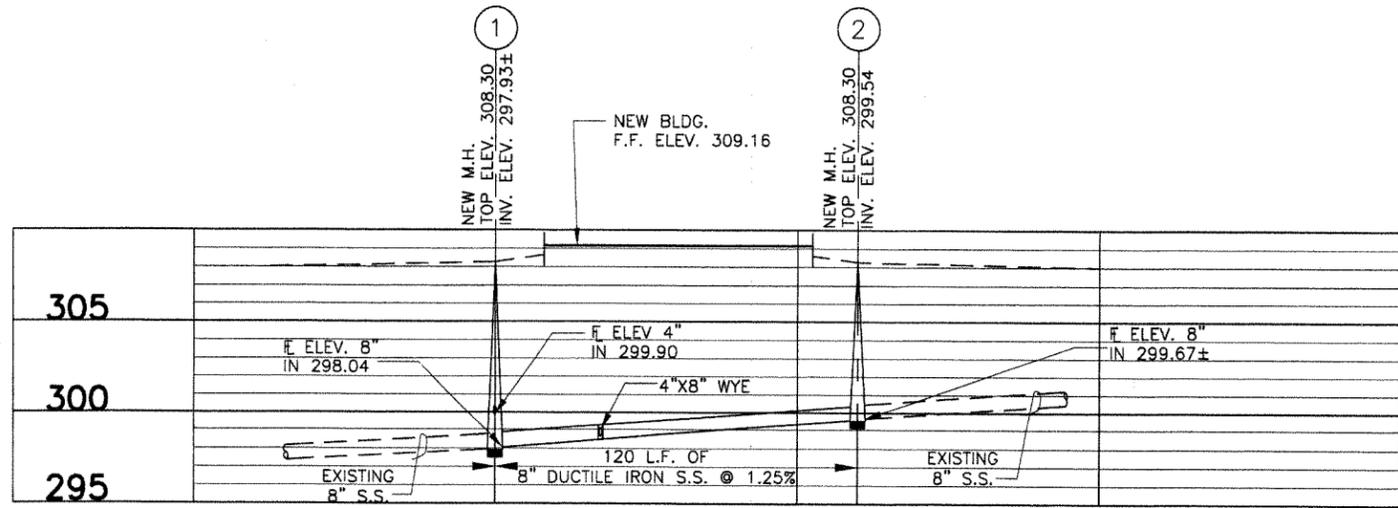
**NOTE:**  
THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:  
A) EOS IS NOT LARGER THAN 212 μ SIEVE  
B) GRAB STRENGTH 400-534N  
C) CONFORM TO ASTM D-1682 OR ASTM D-177

**2 TEMPORARY SILT FENCE DETAIL**  
NOT TO SCALE



**NOTE:** MINIMUM TRENCH DRAIN DEPTH SHALL BE 10".

**3 TRENCH DRAIN DETAIL**  
NOT TO SCALE



VERTICAL SCALE: 1"=5'  
HORIZONTAL SCALE: 1"=30'

**4 SANITARY SEWER PROFILE**

No.	Date	Description

**CONSTRUCTION DOCUMENTS**

CROMWELL ARCHITECTS/ENGINEERS  
ARKANSAS-ENGINEER

STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
SCOTT MARTIN  
No. 4820

ARKANSAS STATE HIGHWAY AND  
TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE

ARCHITECT OF RECORD  
**CROMWELL**  
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Issue Date 14-DECEMBER-2012 Project Number 2012-102

Drawing Title **SITE DETAILS**

Drawing Number **C-502**  
11 of 78

## REQUIRED STRUCTURAL INSPECTIONS AND STATEMENT OF SPECIAL INSPECTIONS

PER CHAPTER 17 OF CURRENT ARKANSAS FIRE PREVENTION CODE VOLUME II BUILDING (BASED ON IBC CODE)

ITEM	CONTINUOUS	PERIODIC	ITEM	CONTINUOUS	PERIODIC	NOTES:
<b>SOILS:</b>						
1. VERIFY MATERIALS BELOW PIERS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X		<b>STEEL CONSTRUCTION:</b>			<p>1. CONTRACTOR IS TO BE RESPONSIBLE FOR SUBMITTING THE WRITTEN STATEMENT OF RESPONSIBILITY REQUIRED BY THE CURRENT ARKANSAS FIRE PREVENTION CODE VOLUME II BUILDING (IBC) (HEREINAFTER REFERRED TO AS THE BUILDING CODE) SECTION 1706.1 REGARDING CONSTRUCTION OF THE MAIN SEISMIC-FORCE-RESISTING SYSTEM AND CONTAINING THE FOUR ITEMS LISTED THEREIN.</p> <p>2. THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH THE CURRENT BUILDING CODE CHAPTER 17 BY AN INSPECTOR FROM AN ESTABLISHED AND CERTIFIED TESTING AGENCY. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, OWNER AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER, AND OWNER. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.</p> <p>3. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE INSPECTOR IS ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION. PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.</p> <p>4. ALL WELDS SHALL BE VISUALLY INSPECTED AT A MINIMUM, IN ADDITION TO ANY OTHER REQUIREMENTS IN THESE CONTRACT DOCUMENTS.</p> <p>5. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY BY USE OF A COMPARABLE APPROVED METHOD.</p> <p>6. STRUCTURAL INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT BUILDING CODE, CHAPTER 17.</p>
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X	1. MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS.			
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.		X	A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X		B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		X	
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X	2. INSPECTION OF HIGH STRENGTH BOLTING:			
<b>PIER FOUNDATIONS:</b>			A. BEARING TYPE CONNECTION.		X	
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER.	X		3. INSPECTION OF WELDING:			
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM PIER DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK AND ADEQUATE END BEARING STRATA CAPACITY.	X		A. STRUCTURAL STEEL:			
3. INSPECTION OF REINFORCING STEEL AND PLACEMENT.		X	1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X		
4. INSPECTION OF CONCRETE PLACEMENT.	X		2) MULTIPASS FILLET WELDS.	X		
<b>CONCRETE CONSTRUCTION:</b>			3) SINGLE PASS FILLET WELDS GREATER THAN 5/16"	X		
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.		X	4) SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"		X	
2. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X		5) FLOOR AND ROOF DECK WELDS.		X	
3. VERIFYING USE OF REQUIRED DESIGN MIX.		X	B. REINFORCING STEEL:			
4. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		1) SHEAR REINFORCEMENT.	X	X	
5. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		2) OTHER REINFORCING STEEL.		X	
6. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES.		X	4. STEEL JOISTS AND SPECIAL STEEL JOISTS:			
7. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X	A. ANCHORAGE WELDING TO SUPPORTS.		X	
8. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	B. ANCHORAGE OF MECHANICAL SCREEN CONNECTION TO JOISTS.	X		
9. INSPECT VAPOR BARRIER/RETARDER FOR USE OF SPECIFIED MATERIAL AND PROPER PLACEMENT.		X	C. INSTALLATION.		X	
10. INSPECT VOID FORMS FOR USE OF SPECIFIED MATERIAL, PROPER PLACEMENT, AND THAT THEY ARE NOT DAMAGED FOR ANY REASON AND SEE THAT ANY DAMAGED UNITS ARE REPLACED BEFORE PLACEMENT OF CONCRETE.	X		D. SPECIAL JOISTS:			
			1) OBTAIN CERTIFICATION FROM MANUFACTURER THAT THEY ARE DESIGNED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND SPECIAL JOIST DIAGRAMS ON DRAWINGS.	X		
			2) INSTALLATION.	X		
			5. INSPECTION OF SEISMIC FORCE RESISTING SYSTEM OF THE ORDINARY STEEL CONCENTRIC BRACED FRAMES ON COLUMN LINES A, C, I, AND 4 AND ALL PARTS OF THE ENTRANCE CANOPY SYSTEM.			
			A. ALL WELDING.	X		
			B. PLACEMENT AND INSTALLATION OF STRUCTURAL MEMBERS.		X	
			C. BRACING, STIFFENING, AND JOINT DETAILS.		X	
			MECHANICAL & ELECTRICAL COMPONENTS: SEE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED ANCHORAGE SYSTEMS AND SEISMIC SYSTEMS.			
			1. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS IN STRUCTURES.		X	
			2. INSTALLATION OF PIPING SYSTEMS INTENDED TO CARRY FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC CONTENTS AND THEIR ASSOCIATED MECHANICAL UNITS AND HVAC DUCTWORK CONTAINING HAZARDOUS MATERIALS AND ANCHORAGE OF SUCH TO DUCTWORK.		X	
			3. EXAMINE SEISMIC SYSTEM DESIGNED BY THE RESPONSIBLE MECHANICAL AND ELECTRICAL PROFESSIONAL ENGINEERS IN CHARGE REQUIRING SEISMIC QUALIFICATION IN ACCORDANCE WITH ARKANSAS FIRE PREVENTION CODE (IBC) SECTION 1708.5 AND VERIFY THE LABEL, ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE.			




CONSTRUCTION DOCUMENTS

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

**PUBLIC TRANSIT OFFICE**



ARCHITECT OF RECORD



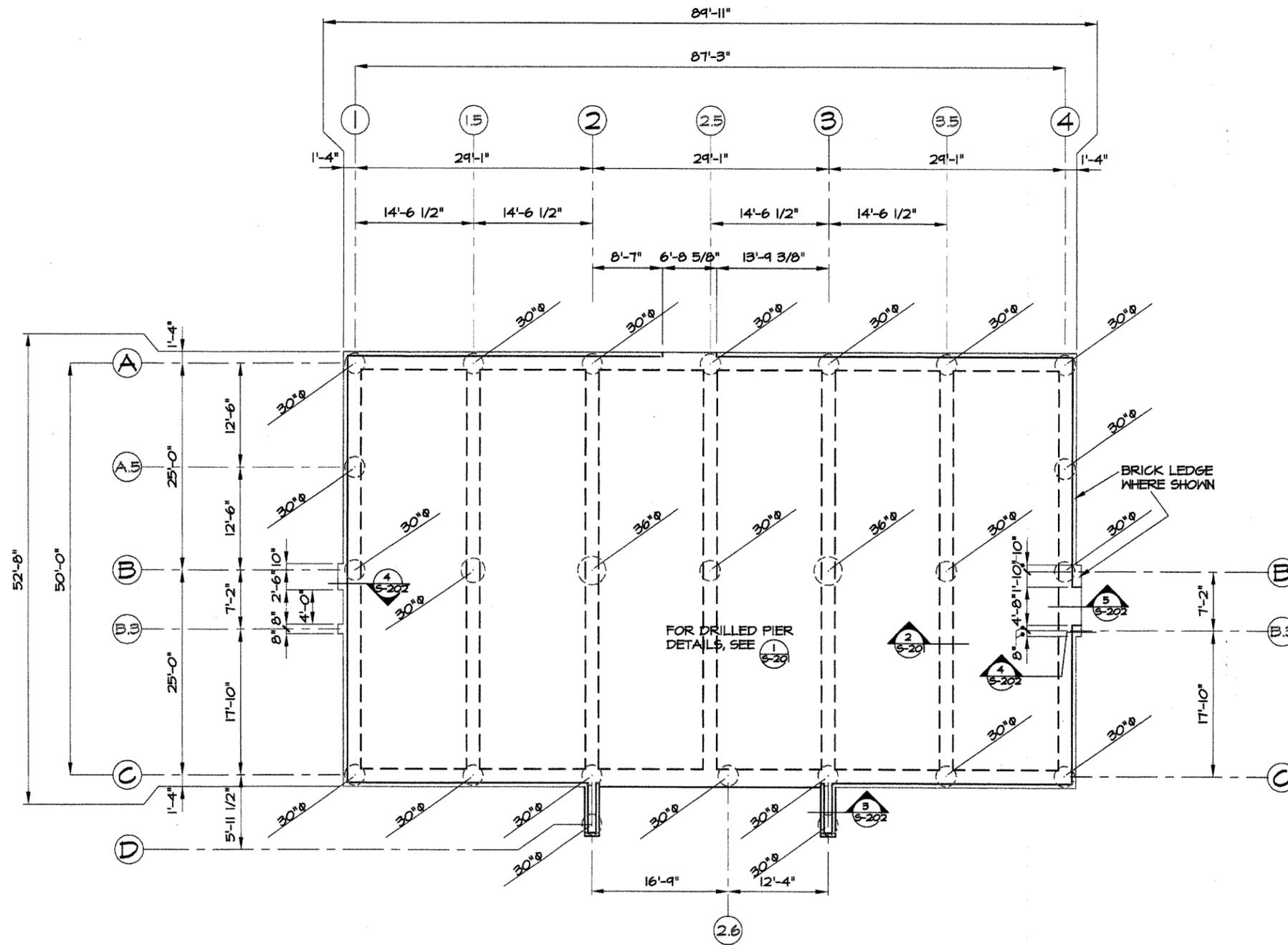
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Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	<b>STRUCTURAL QUALITY CONTROL</b>		
Drawing Number	<b>S-001</b>		

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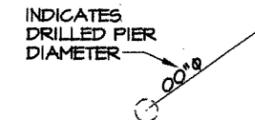


**FOUNDATION PLAN**

1/8"=1'-0"

**LEGEND**

- EOS                      EDGE OF SLAB
- SCJ                        SAW CUT JOINT



No.	Date	Description

CONSTRUCTION DOCUMENTS

CERTIFICATE OF AUTHORIZATION  
H. JAMES ENGSTROM & ASSOC., INC.  
No. 184  
ARKANSAS ENGINEER

STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
H. JAMES ENGSTROM  
No. 3129  
12-14-12

ARKANSAS STATE HIGHWAY AND  
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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>FOUNDATION PLAN</b>	
Drawing Number <b>S-101</b>	
14 of 78	

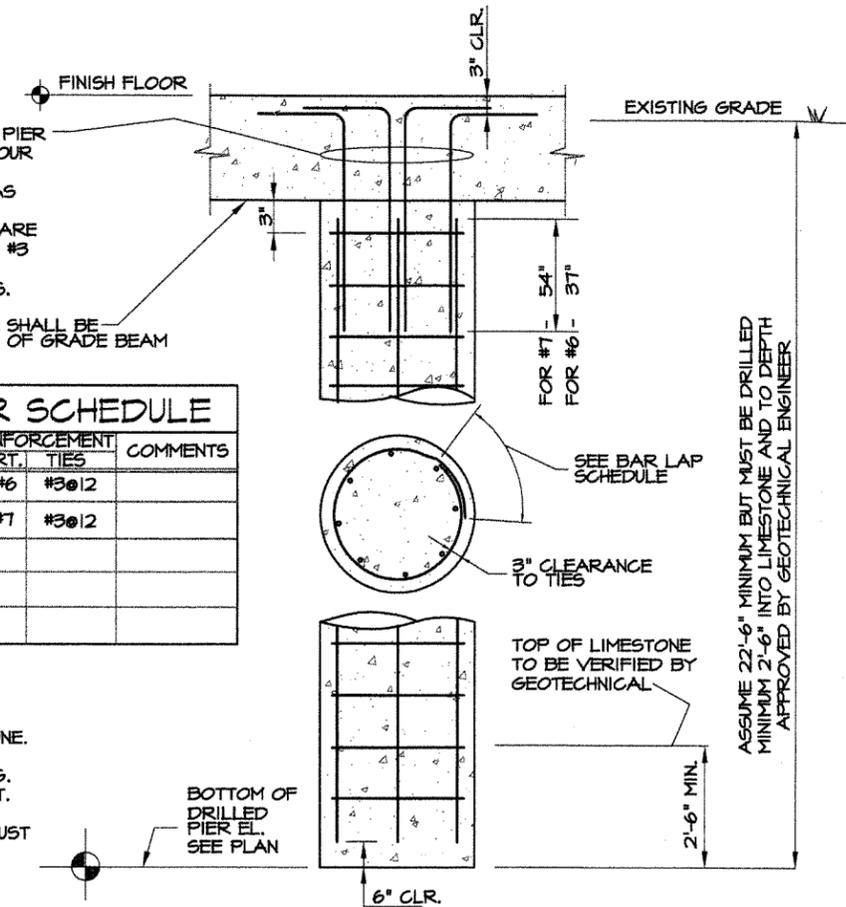
PROVIDE ANCHORAGE OF PIER INTO GRADE BEAM WITH FOUR BARS WITH STD. HOOK LENGTHS THE SAME SIZE AS PIER VERT. REINF. AND PLACED SUCH THAT THEY ARE ADJACENT TO AND INSIDE #3 TIES IN PIER AND WITHIN GRADE BEAM #4 STIRRUPS.

TOP OF PIER SHALL BE AT BOTTOM OF GRADE BEAM

DRILLED PIER SCHEDULE				
MARK	PIER DIA.	BELL DIA.	REINFORCEMENT VERT. TIES	COMMENTS
X	30"		8-#6 #3@12	
X	36"		11-#7 #3@12	

**NOTE:**

- PIERS MUST BE CORED MINIMUM 2'-6" INTO LIMESTONE.
- PIERS MAY REQUIRE CASING. SEE GEOTECHNICAL REPORT.
- GEOTECHNICAL ENGINEER MUST INSPECT EACH PIER.



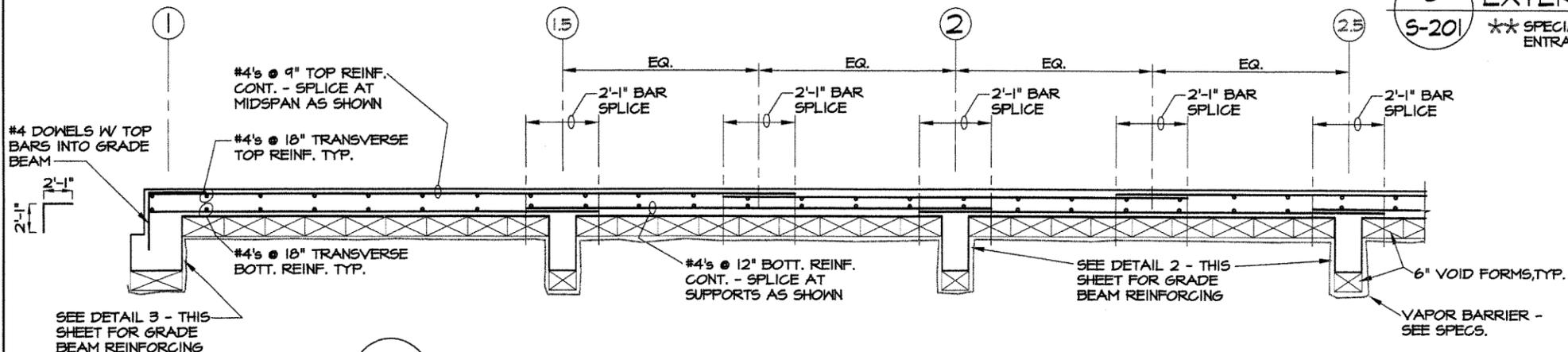
**1 DRILLED PIER DETAILS**  
S-201 (LOOKING WEST) N.T.S.

**BAR LAPS**  
UNLESS SHOWN OTHERWISE

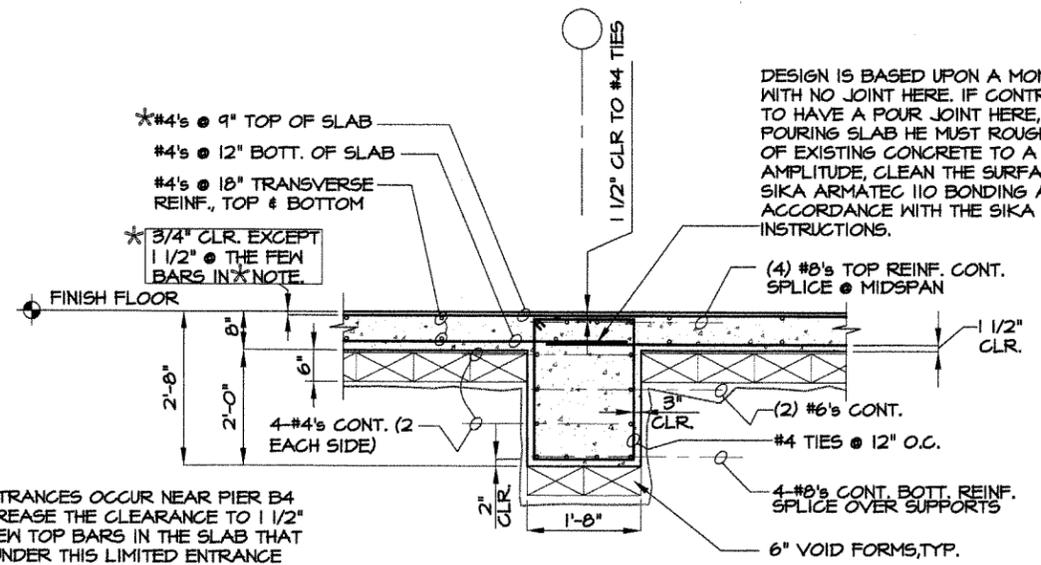
BAR SIZE	LAP LENGTH
#3	25"
#4	32"
#5	41"
#6	48"
#7	70"
#8	80"

**NOTES**

THIS SCHEDULE TYPICAL ALL BARS SPECIFICALLY NOT SHOWN OTHERWISE ON THESE DINGS. ALL BARS TO BE CONT. (NO LAPS) WHERE POSSIBLE. PROVIDE CORNER BARS ALL CORNERS.



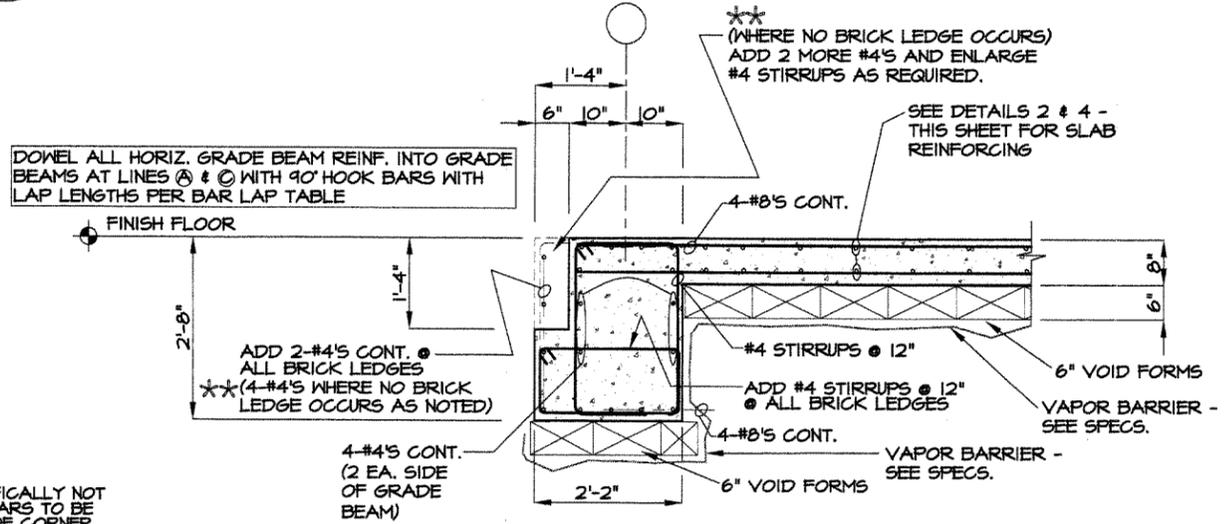
**4 STRUCTURAL SLAB REINFORCING DETAIL**  
S-201 (LOOKING WEST) N.T.S.



**\*NOTE:**  
WHERE THE ENTRANCES OCCUR NEAR PIER B4 AND A2.5, INCREASE THE CLEARANCE TO 1 1/2" @ ONLY THE FEW TOP BARS IN THE SLAB THAT WOULD PASS UNDER THIS LIMITED ENTRANCE AREA AND SPACE THEM SUCH THAT THEY WILL PASS BETWEEN THE #4 GRADE BEAM STIRRUPS IN THESE 2 AREAS AS REQUIRED. DO NOT LOWER SLAB TOP BARS IN OTHER AREAS.

DOWEL ALL HORIZ. GRADE BEAM REINF. INTO GRADE BEAMS AT LINES @ & © WITH 90° HOOK BARS WITH LAP LENGTHS PER BAR LAP TABLE

**2 TYPICAL SLAB & GRADE BEAM DETAIL**  
S-201 (LOOKING WEST) N.T.S.



**3 EXTERIOR GRADE BEAM DETAIL**  
S-201 \*\* SPECIAL CASE ON LINE C AT ENTRANCE AS NOTED, SEE PLAN. N.T.S.

DESIGN IS BASED UPON A MONOLITHIC POUR WITH NO JOINT HERE. IF CONTRACTOR CHOOSES TO HAVE A POUR JOINT HERE, THEN BEFORE POURING SLAB HE MUST ROUGHEN THE SURFACE OF EXISTING CONCRETE TO A FULL OF 1/4" AMPLITUDE, CLEAN THE SURFACE, AND APPLY SIKA ARMATEC 110 BONDING AGENT ON IT, IN ACCORDANCE WITH THE SIKA CORPORATION INSTRUCTIONS.

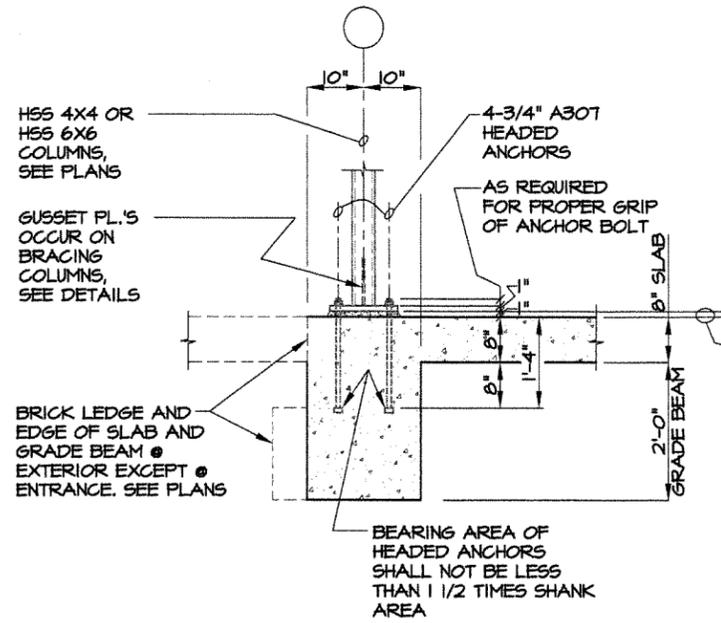
CONSTRUCTION DOCUMENTS

CERTIFICATE OF AUTHORIZATION  
H. JAMES ENGSTROM & ASSOC., INC.  
No. 184  
REGISTERED PROFESSIONAL ENGINEER  
12-14-12

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Issue Date: 14-DECEMBER-2012 Project Number: 2012-102  
Drawing Title: FOUNDATION DETAILS  
Drawing Number: S-201  
15 of 78

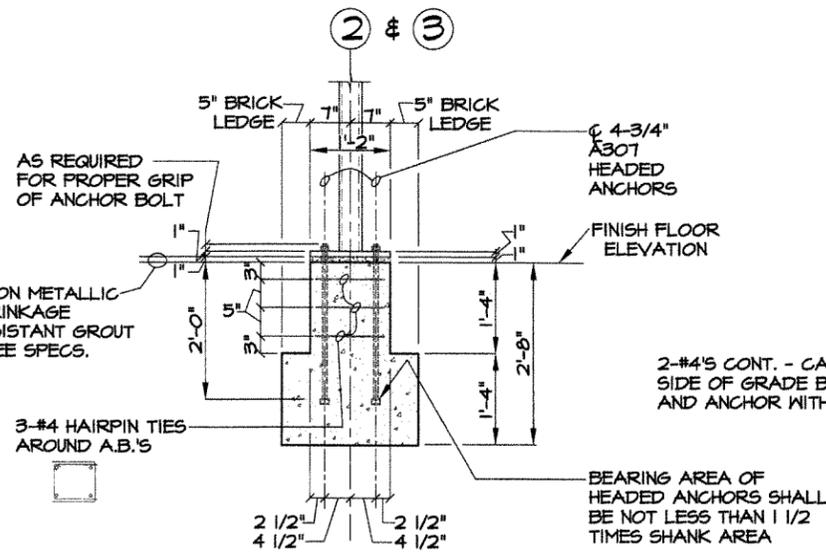


SEE DETAIL 3 ON SHEET S-505 FOR BASE PLATE DETAILS

1 TYPICAL BASE PLATE & ANCHOR BOLT DETAIL @ ALL COLUMNS EXCEPT @ COLUMNS D-2 & D-3

5-202

3/4"=1'-0"

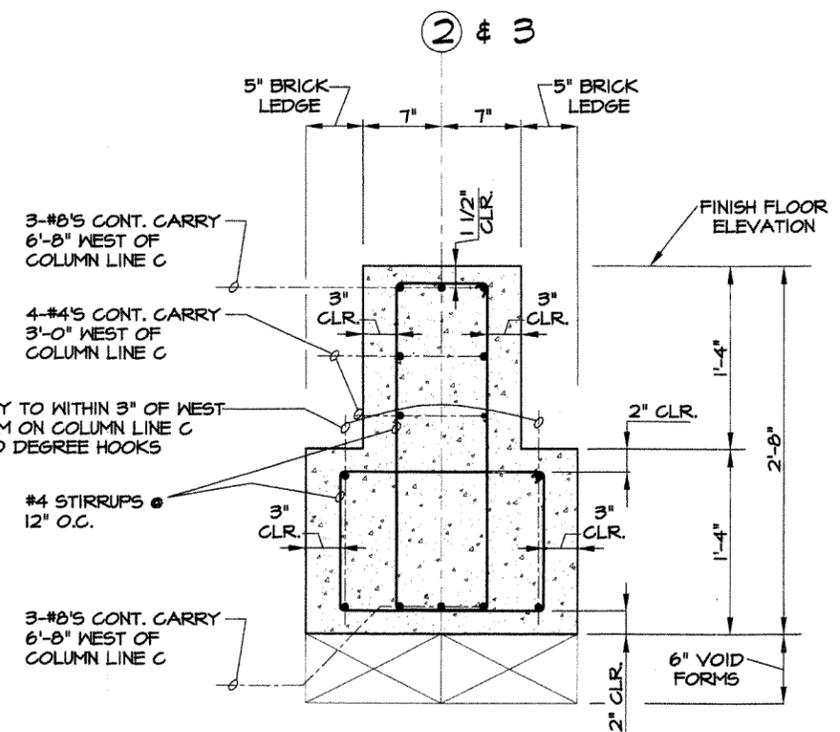


SEE DETAIL 3 ON SHEET S-505 FOR BASE PLATE DETAILS

2 BASE PLATE & ANCHOR BOLT DETAIL @ COLUMNS D-2 & D-3

5-202

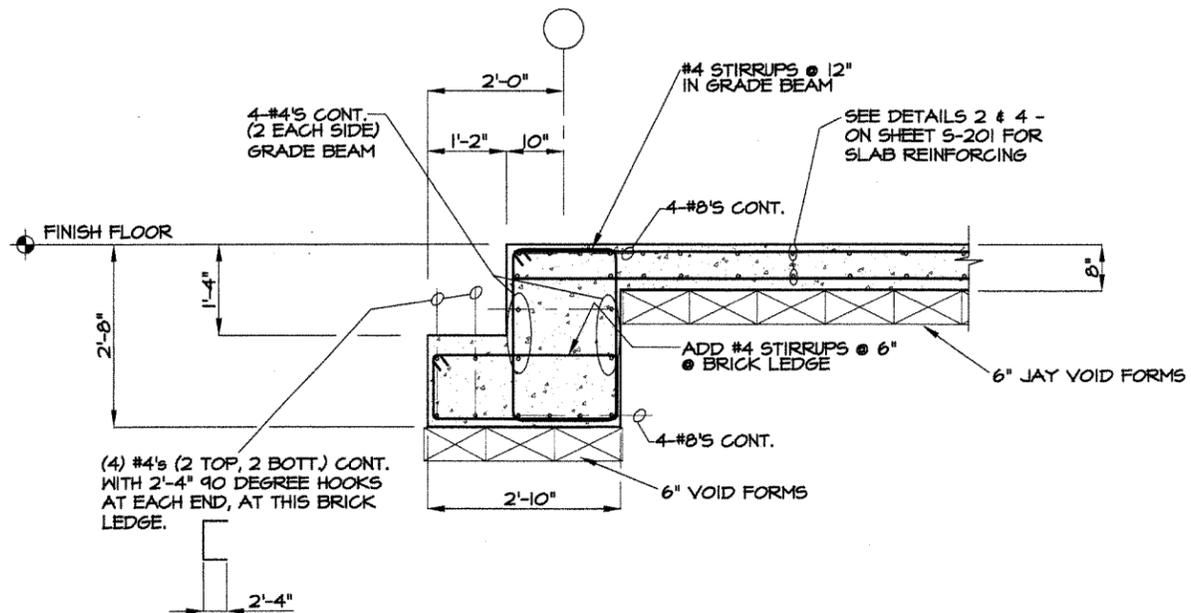
3/4"=1'-0"



3 GRADE BEAM SECTION @ COLUMNS D-2 & D-3

5-202

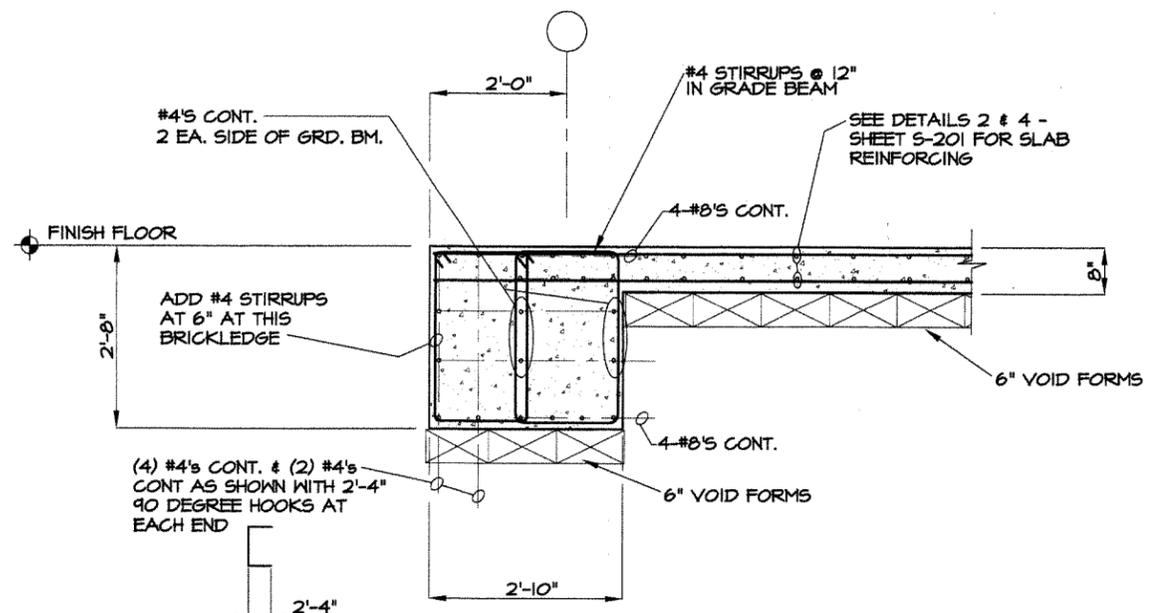
1/2"=1'-0"



4 EXTERIOR GRADE BEAM DETAIL

5-202

3/4"=1'-0"



5 EXTERIOR GRADE BEAM DETAIL

5-202

3/4"=1'-0"

CONSTRUCTION DOCUMENTS

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H. JAMES ENGSTROM & ASSOC., INC.  
No. 164  
REGISTERED PROFESSIONAL ENGINEER  
No. 3125  
H. JAMES ENGSTROM  
12-17-12

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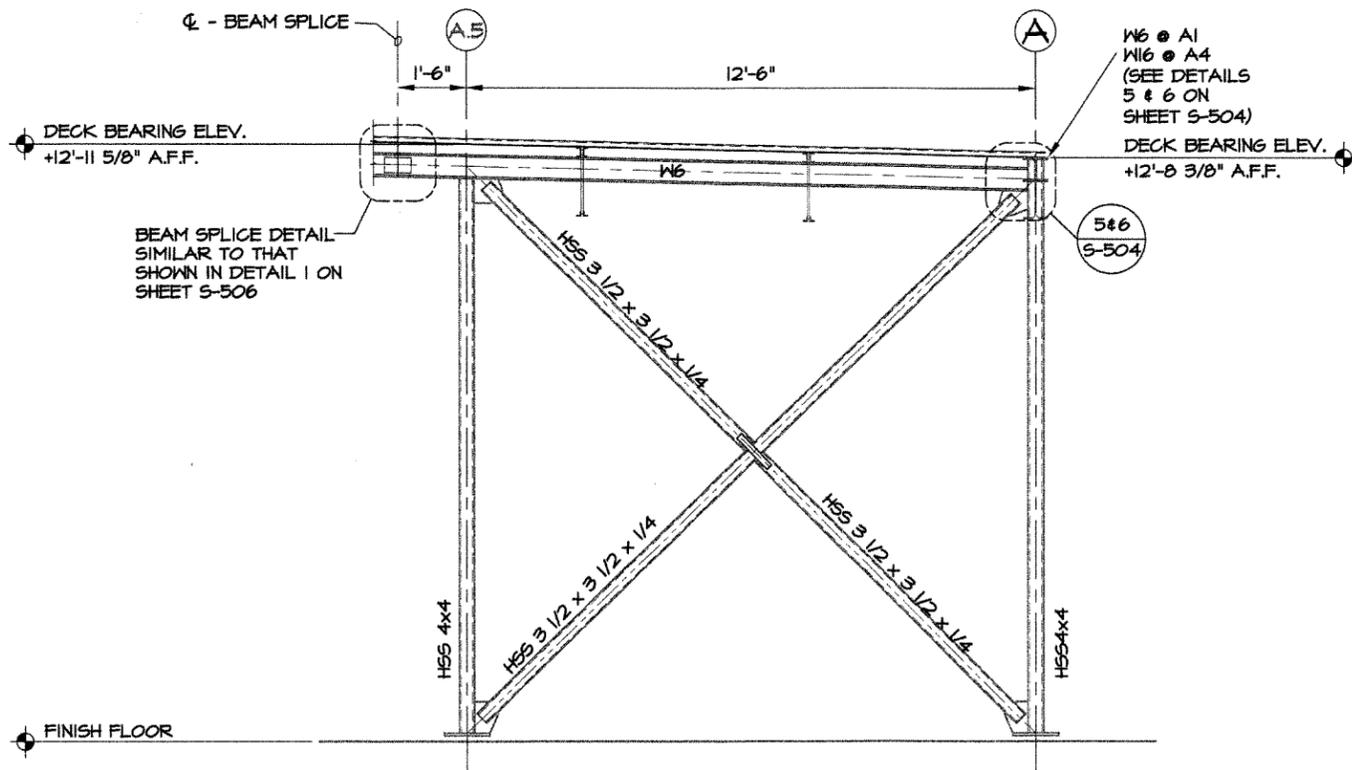
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Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	FOUNDATION DETAILS		
Drawing Number	S-202		

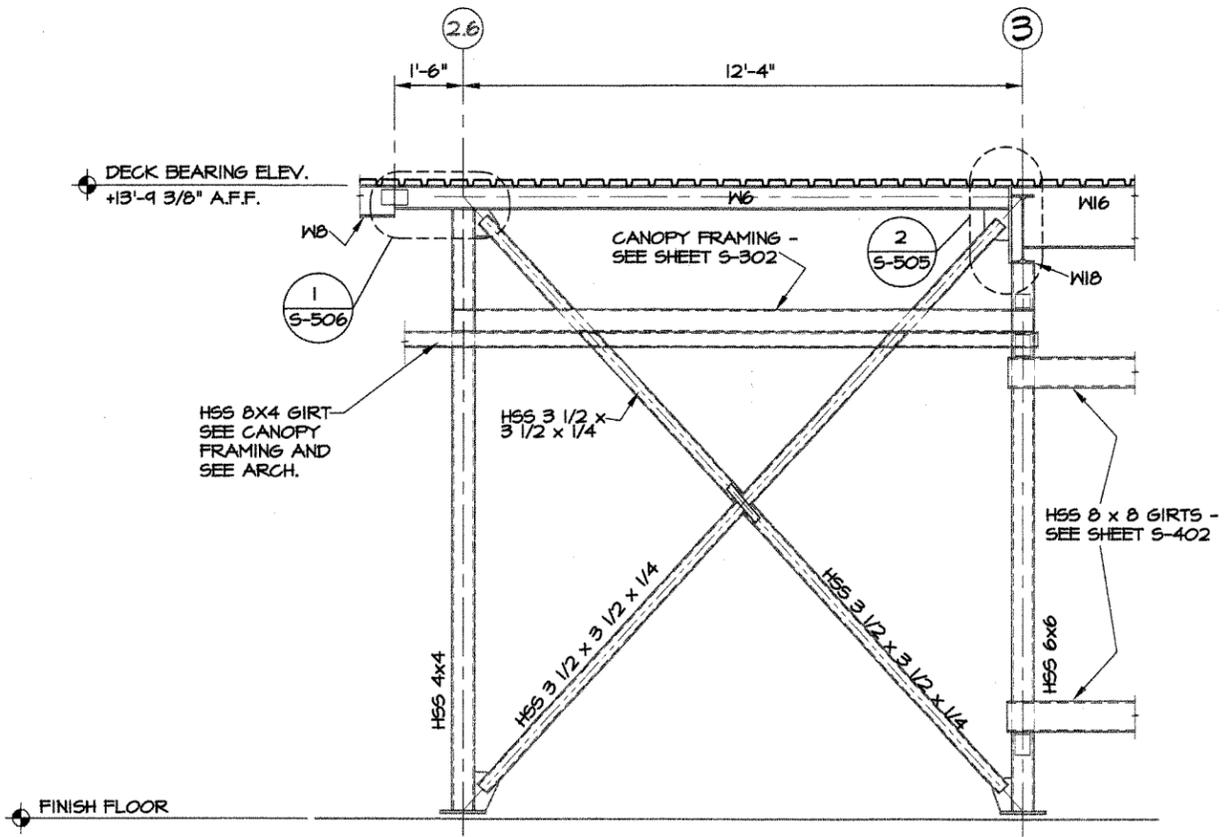
16 of 78



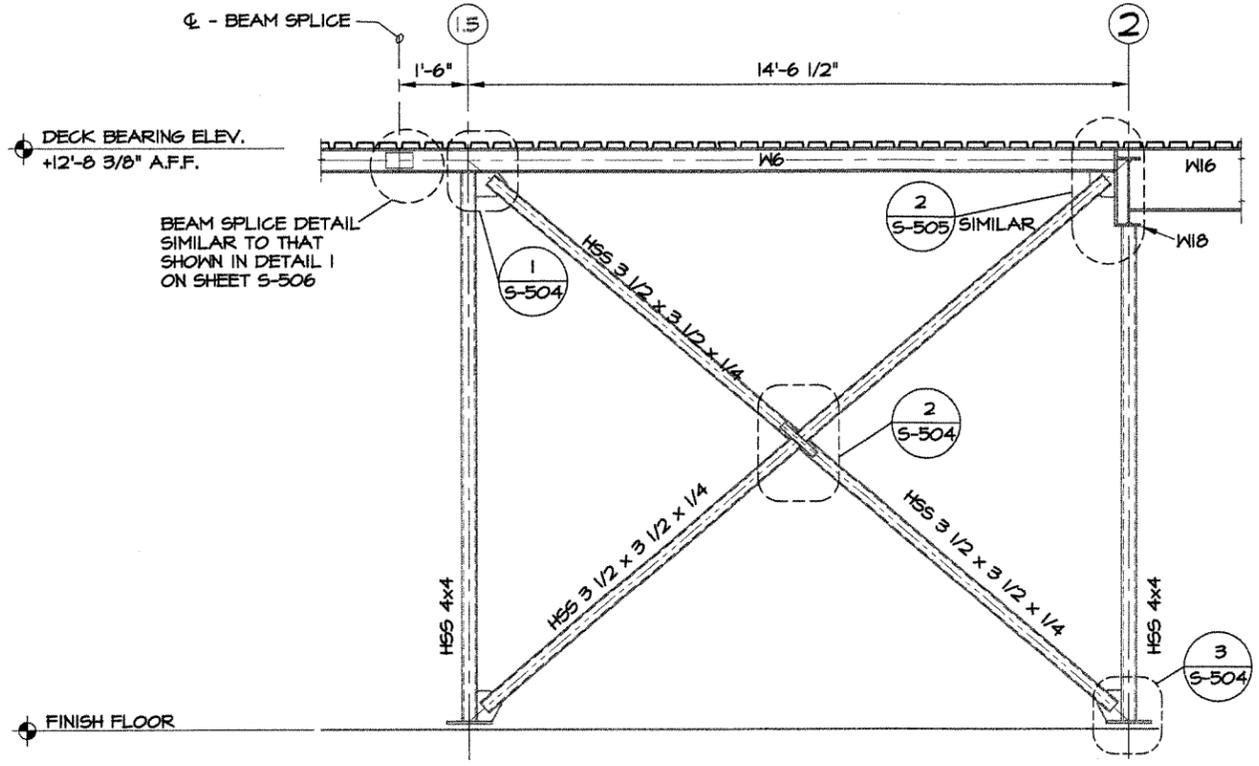




**1 BRACING ELEVATION**  
 (LOOKING SOUTH) 1/2"=1'-0"



**2 BRACING ELEVATION**  
 (LOOKING WEST) 1/2"=1'-0"



**3 BRACING ELEVATION**  
 (LOOKING WEST) 1/2"=1'-0"

No.	Date	Description

CERTIFICATE OF AUTHORIZATION  
 H. JAMES ENGSTROM & ASSOC., INC.  
 No. 184  
 ARKANSAS REGISTERED PROFESSIONAL ENGINEER  
 No. 3125  
 H. JAMES ENGSTROM  
 12-14-12

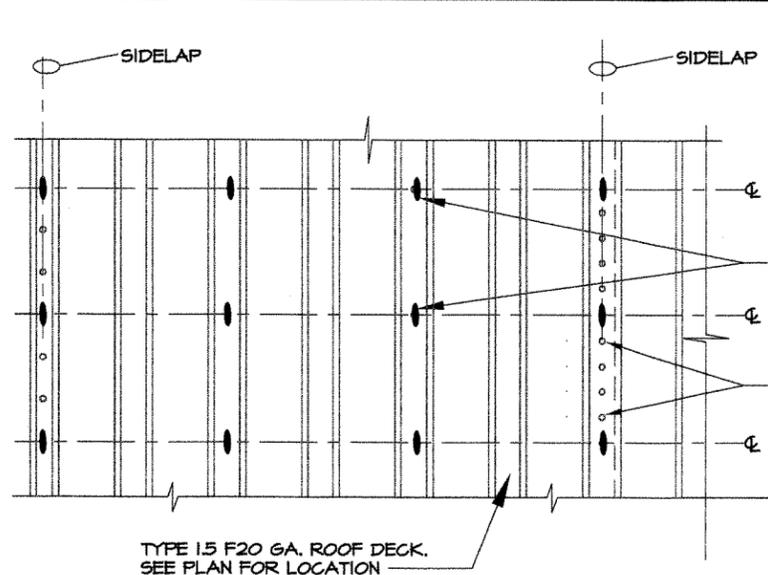
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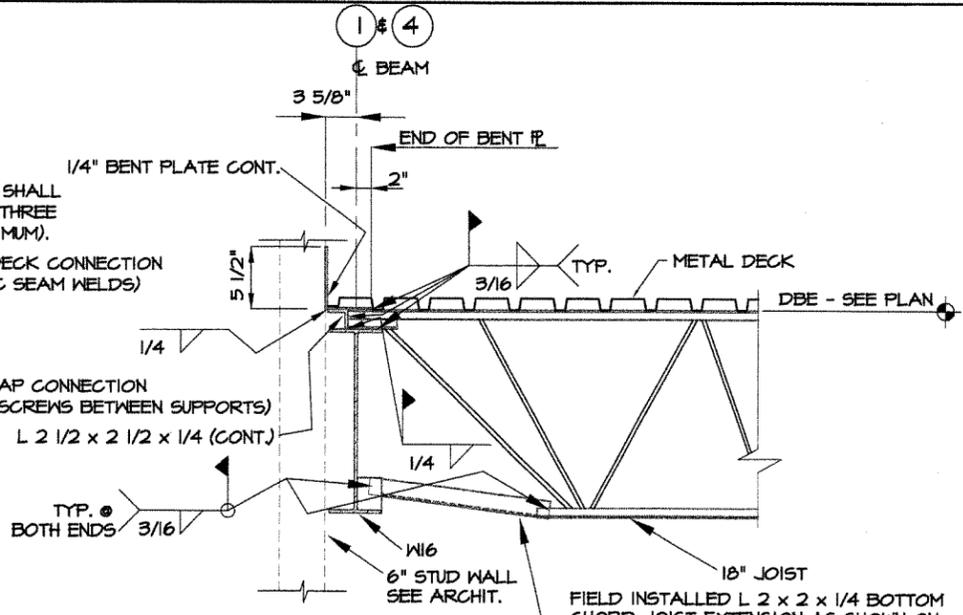
Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	BRACING ELEVATIONS		
Drawing Number	S-401		
	19 of 78		



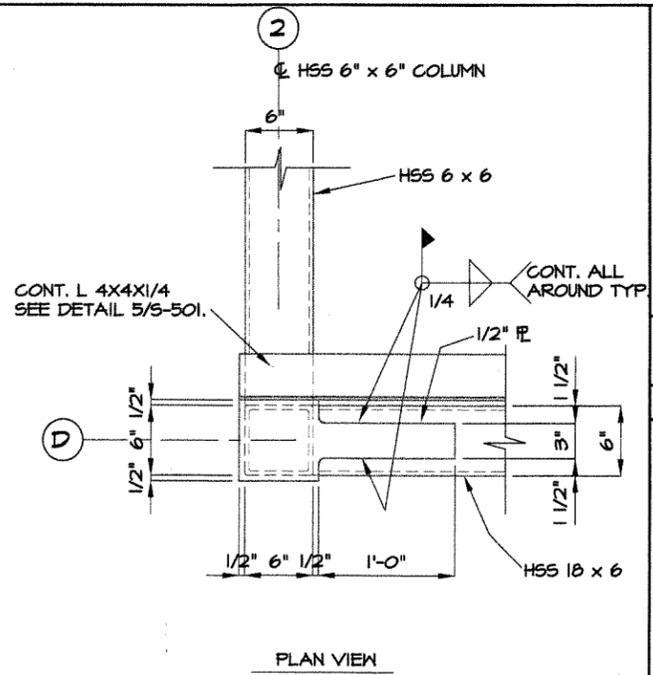


TYPICAL DECK CONNECTION PATTERN PLAN = 3/8 (WELDS @ 12" O.C. @ SUPPORTS)

NOTE: METAL ROOF DECK IS TO BE CONNECTED WITH A 3/8 PATTERN USING 3/8 x 1/4 ARC SEAM WELDS. ALL SIDE LAPS ARE TO BE CONNECTED WITH FOUR #10 TEK SCREWS EQUALLY SPACED BETWEEN SUPPORTS. ALL SIDE SUPPORTS ARE TO BE CONNECTED WITH 3/8 x 1/4 ARC SEAM WELDS AT 12" ON CENTER, TYP., UNLESS NOTED OTHERWISE IN DRAWINGS.



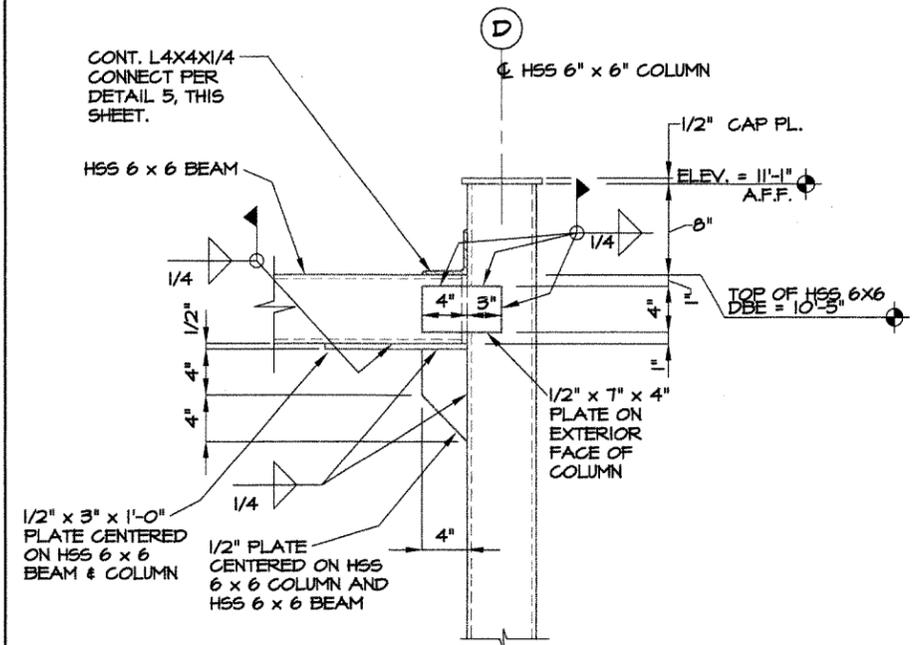
FIELD INSTALLED L 2 x 2 x 1/4 BOTTOM CHORD JOIST EXTENSION AS SHOWN ON PLANS OR ALTERNATIVELY JOIST MANUFACTURER CAN FABRICATE A LOWER CHORD EXTENSION THAT WOULD BE WELDED TO BEAM AS SHOWN.



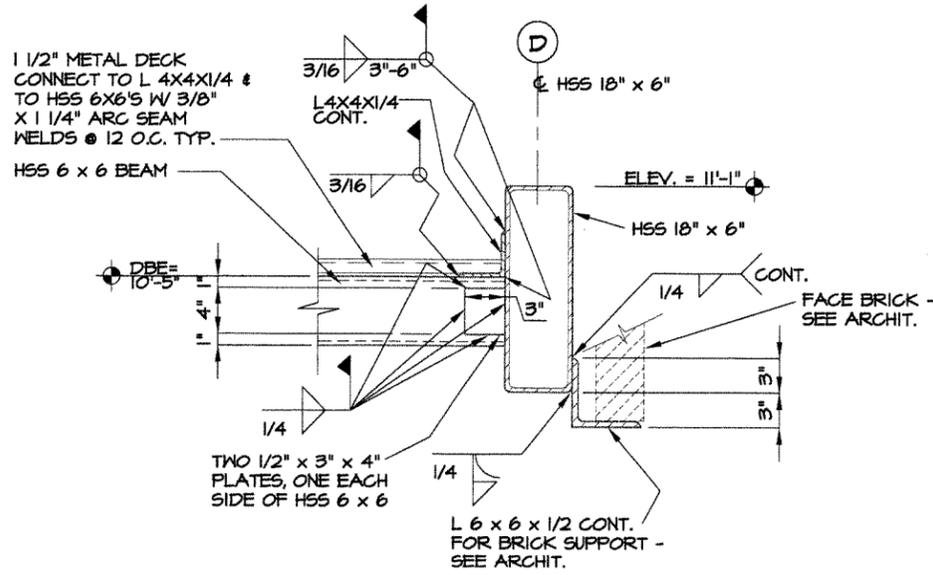
1 TYPICAL ROOF DECK & ANCHORAGE DETAILS  
S-501 N.T.S.

2 JOIST FRAMING DETAIL  
S-501 1 1/2"=1'-0"

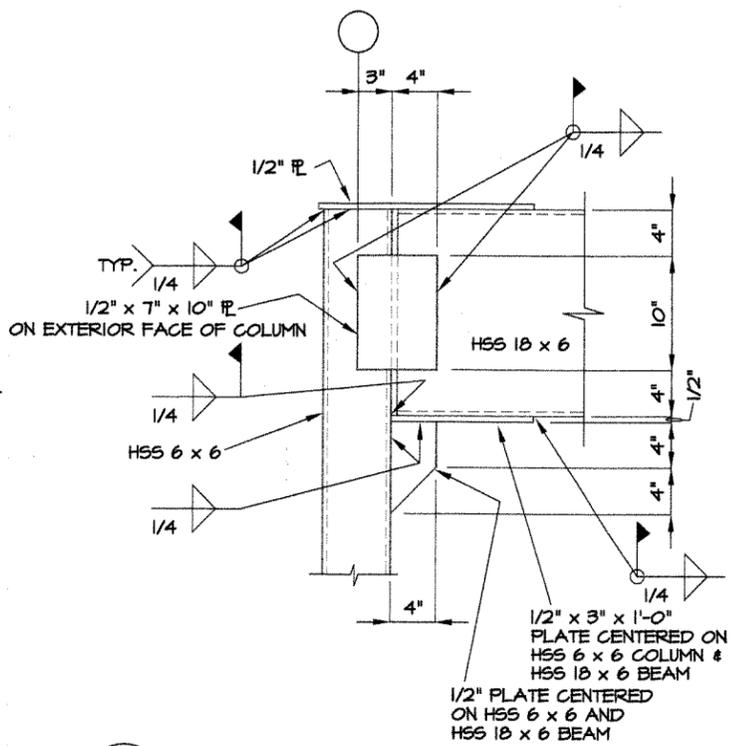
3 CANOPY FRAMING DETAIL  
S-501 1 1/2"=1'-0"



4 CANOPY FRAMING DETAIL  
S-501 1 1/2"=1'-0"



5 CANOPY FRAMING DETAIL  
S-501 1 1/2"=1'-0"



6 CANOPY FRAMING DETAIL  
S-501 1 1/2"=1'-0"



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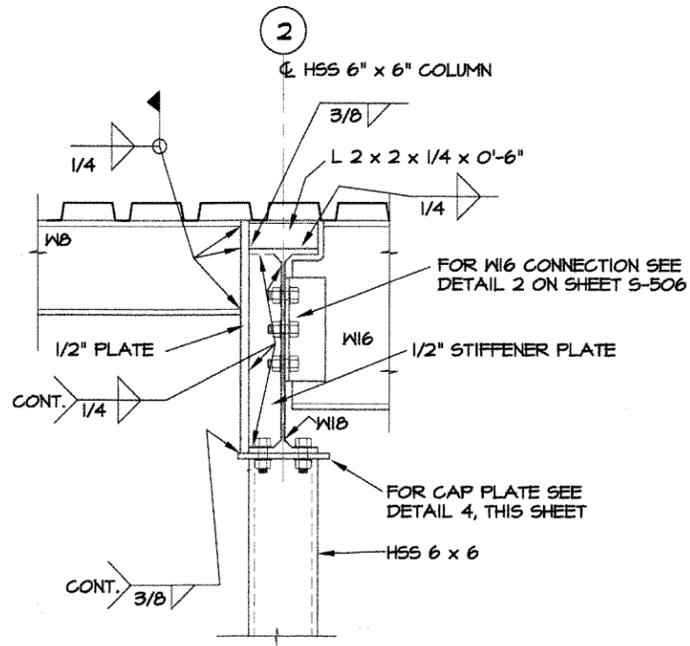
Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title FRAMING DETAILS	
Drawing Number S-501 21 of 78	

CONSTRUCTION DOCUMENTS

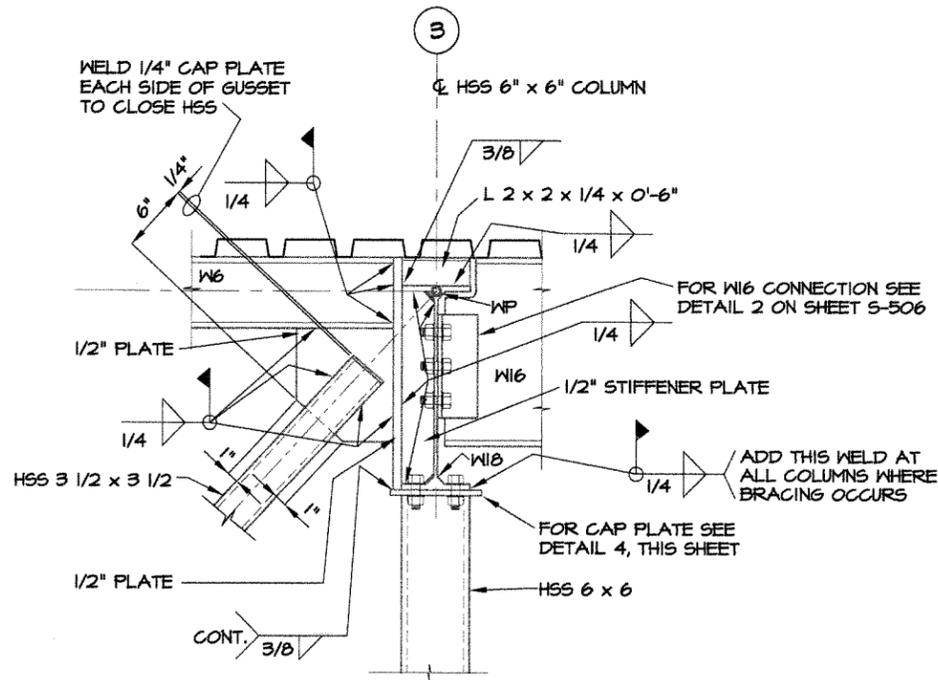




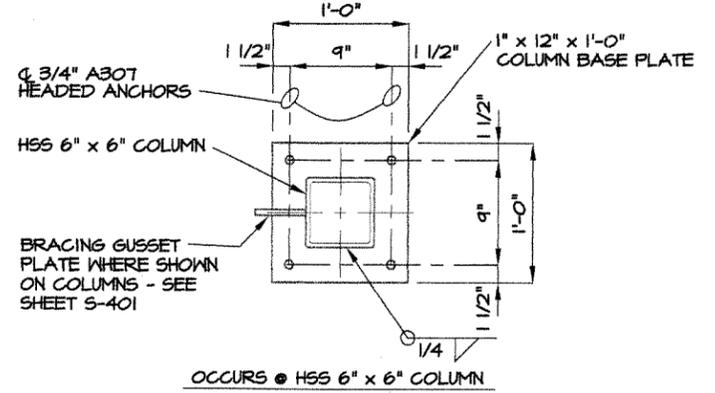
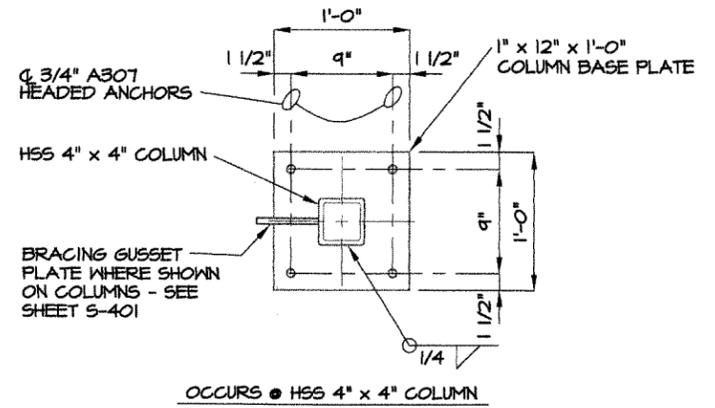




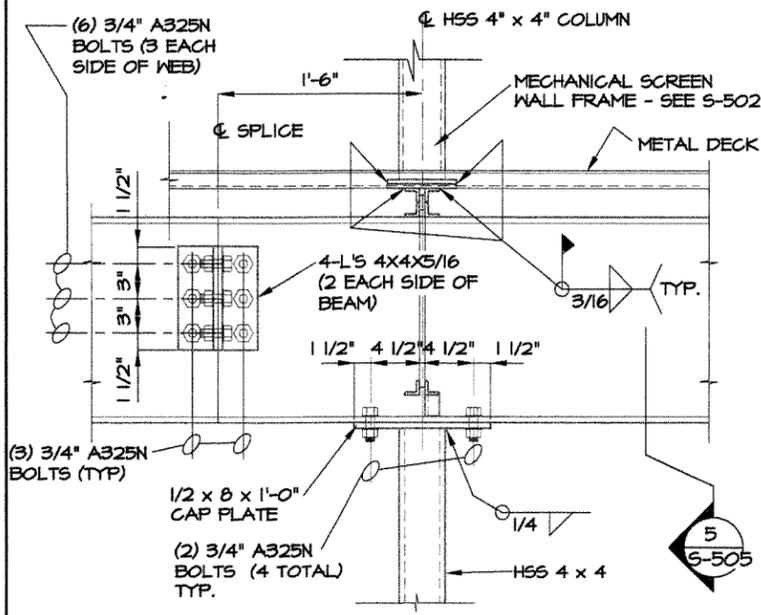
① CONNECTION DETAIL  
 S-505 COLUMN C-2 1 1/2"=1'-0"



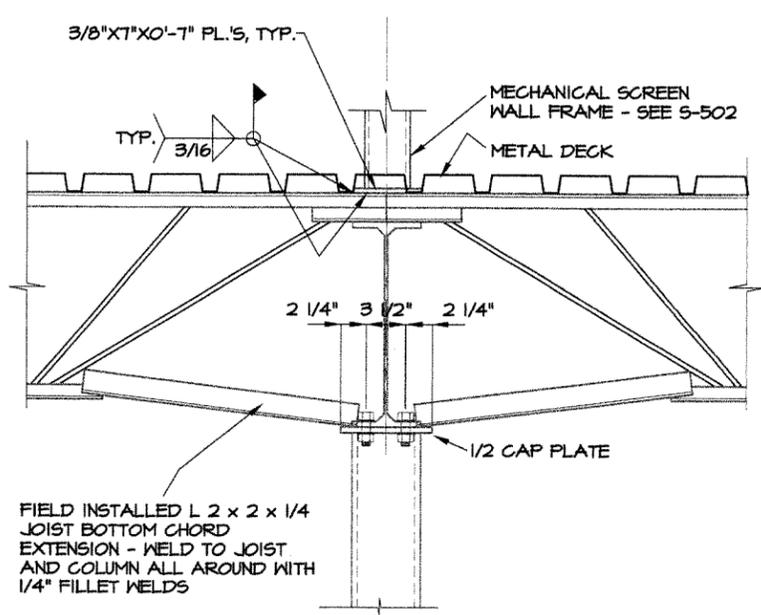
② CONNECTION DETAIL  
 S-505 COLUMN A-2 AND C-3 1 1/2"=1'-0"



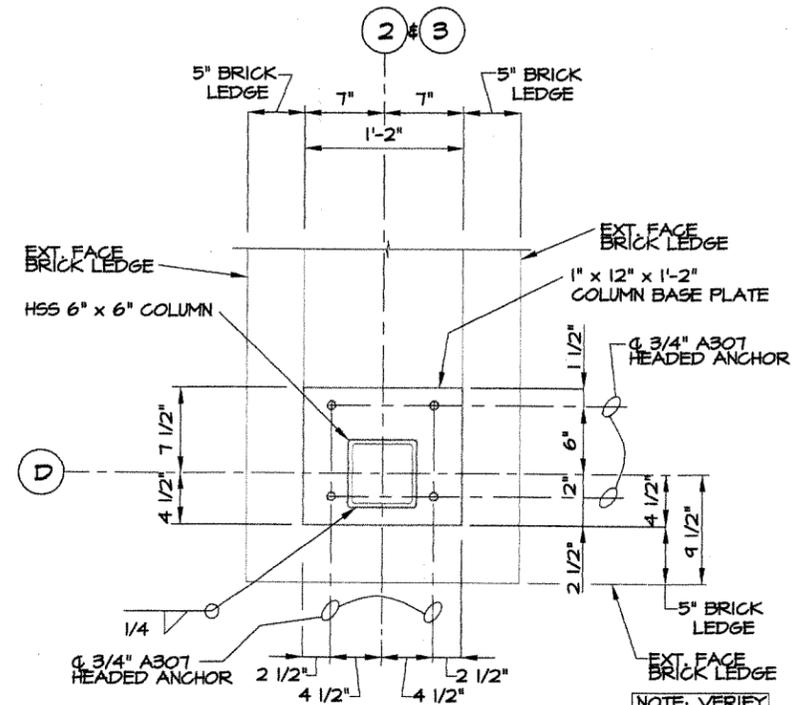
③ TYPICAL BASE PLATE DETAILS EXCEPT @ COLUMNS D-2 & D-3  
 S-505 1 1/2"=1'-0"



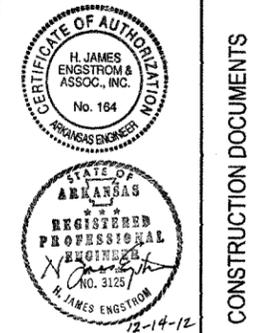
④ CONNECTION DETAIL  
 S-505 COLUMN B-2 AND B-3 1 1/2"=1'-0"



⑤ CONNECTION DETAIL  
 S-505 1 1/2"=1'-0"



⑥ BASE PLATE DETAIL @ COLUMNS D-2 & D-3  
 S-505 1 1/2"=1'-0"

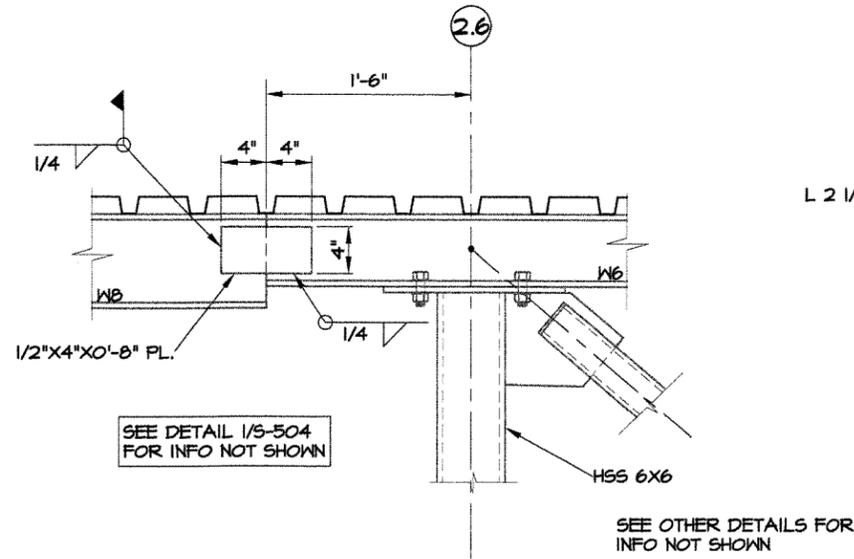


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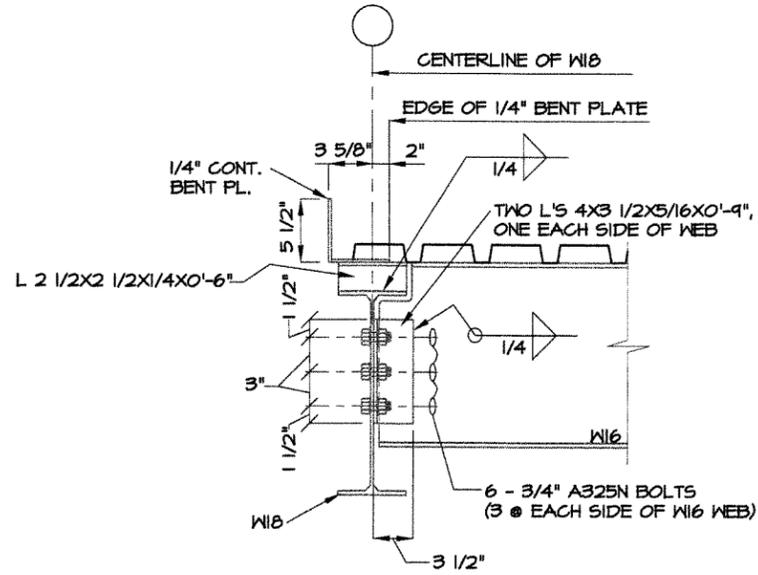
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Issue Date: 14-DECEMBER-2012 Project Number: 2012-102  
 Drawing Title: FRAMING DETAILS  
 Drawing Number: S-505  
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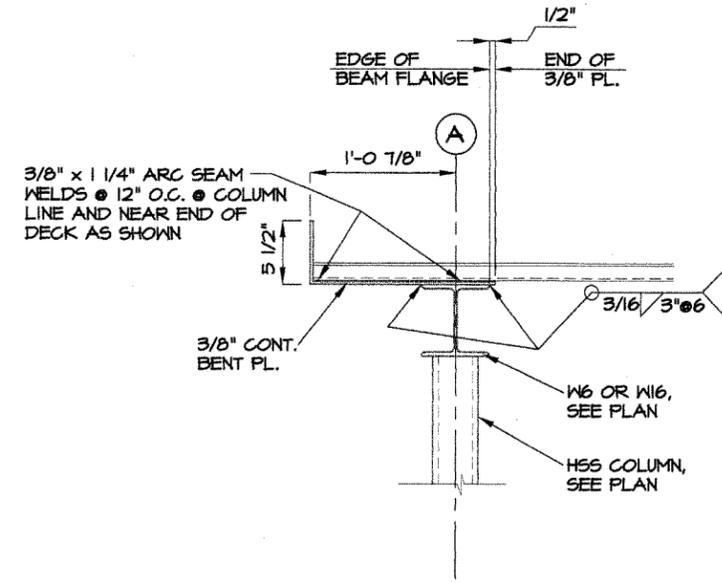
CONSTRUCTION DOCUMENTS



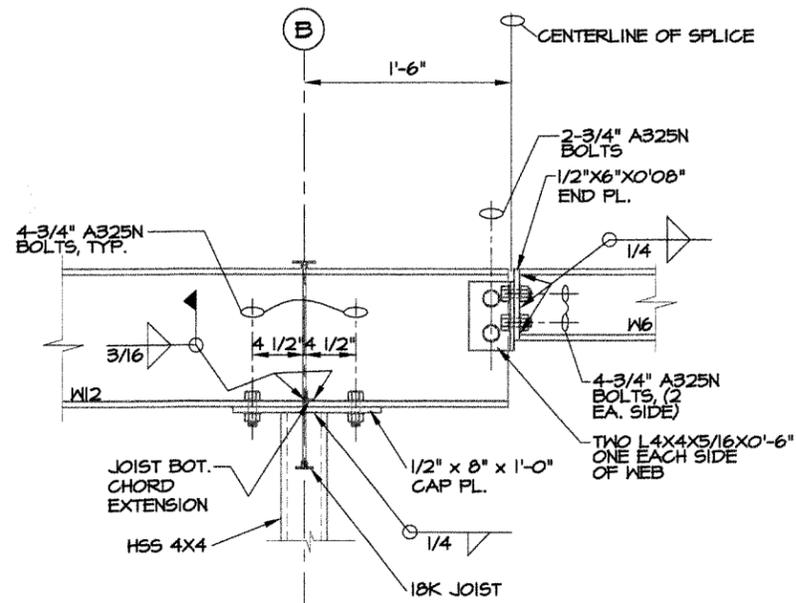
1 CONNECTION DETAIL  
S-506 1 1/2"=1'-0"



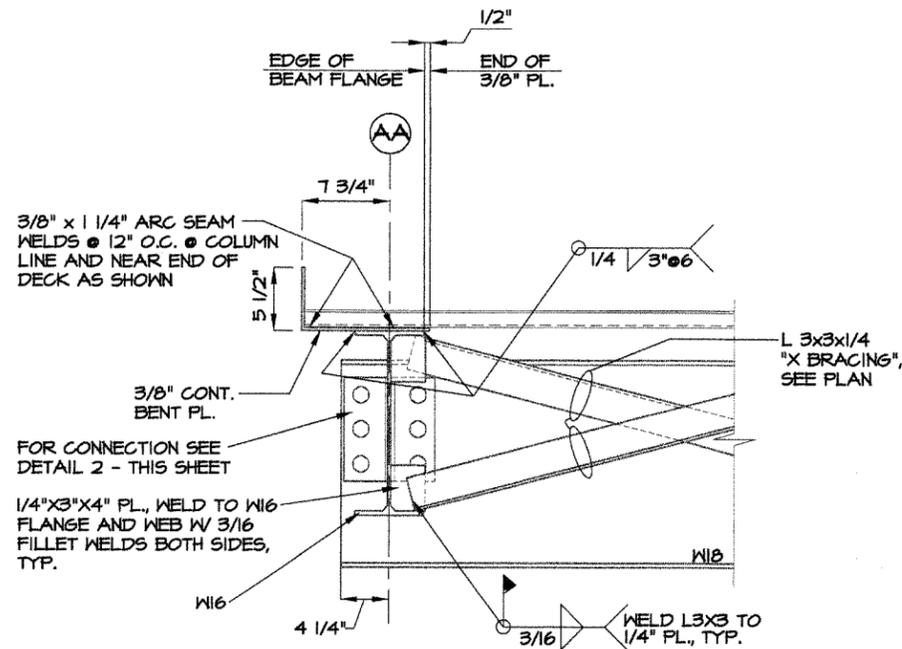
2 CONNECTION DETAIL  
S-506 1 1/2"=1'-0"



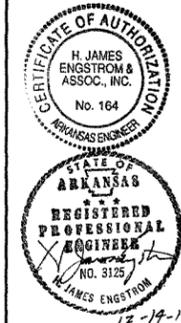
3 CONNECTION DETAIL  
S-506 1 1/2"=1'-0"



4 CONNECTION DETAIL  
S-506 1 1/2"=1'-0"



5 CONNECTION DETAIL  
S-506 1 1/2"=1'-0"



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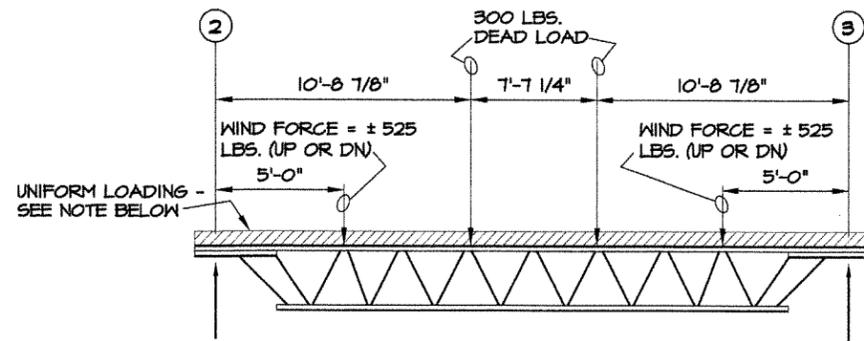
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Drawing Title

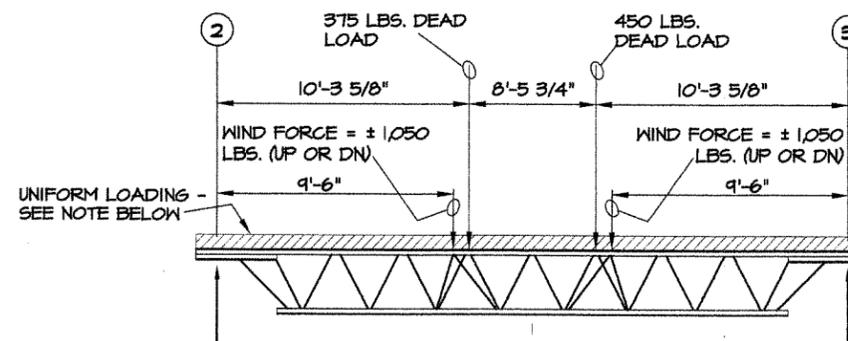
FRAMING DETAILS

Drawing Number

S-506  
28 of 78

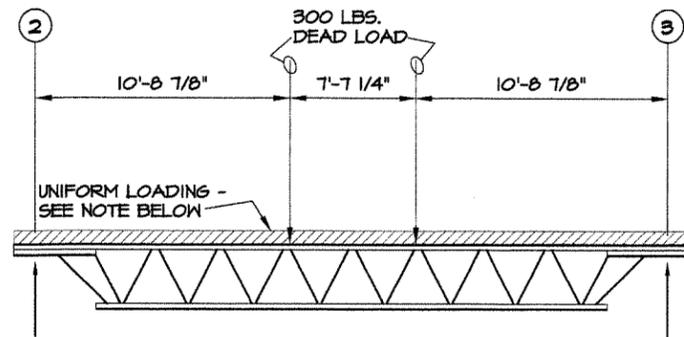


**SPECIAL JOIST - SJ1**

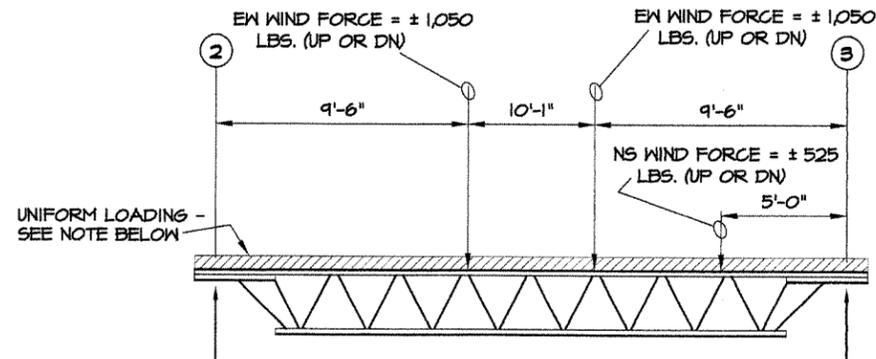


**SPECIAL JOIST - SJ4**

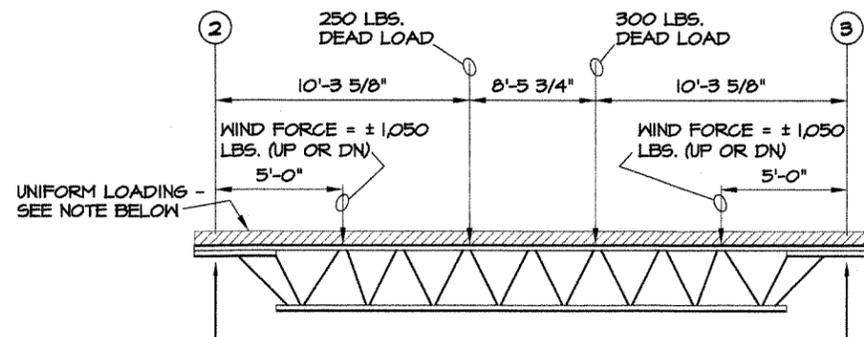
NOTE: EW WIND FORCES AND NS WIND FORCE DO NOT OCCUR SIMULTANEOUSLY



**SPECIAL JOIST - SJ2**



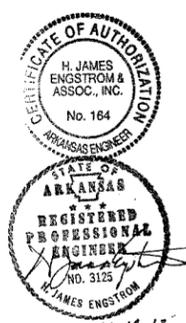
**SPECIAL JOIST - SJ5**



**SPECIAL JOIST - SJ3**

**NOTES:**

1. CONTRACTOR AND JOIST MANUFACTURER ARE TO BE RESPONSIBLE FOR HAVING A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF ARKANSAS, DESIGN THESE SPECIAL JOISTS FOR THE LOADS AND CONDITIONS GIVEN ON THESE DRAWINGS AND NOTES HEREIN AND TO MEET THE REQUIREMENTS OF THE CURRENT ARKANSAS FIRE PREVENTION CODE-VOLUME II BUILDING.
2. LOADS SHOWN ON THIS DRAWING ARE UNFACTORED.
3. MAXIMUM DEFLECTIONS SHALL BE LIMITED AS FOLLOWS:  
 FOR LIVE LOADS: LESS THAN OR EQUAL TO LENGTH DIVIDED BY 360.  
 FOR TOTAL LOADS: LESS THAN OR EQUAL TO LENGTH DIVIDED BY 240.
4. UNIFORM LOADING: (UNFACTORED)
  - A) WIND LOADS IN ADDITION TO THOSE SHOWN ABOVE ARE TO BE CALCULATED USING THOSE SHOWN IN JOIST ROOF WIND LOADING PLAN ON DETAIL 1/5-302.
  - B) MAXIMUM UNIFORM DEAD LOAD = 125 lbs PER LINEAR FOOT
  - C) MAXIMUM UNIFORM LIVE LOAD = 125 lbs PER LINEAR FOOT
  - D) MAXIMUM UNFACTORED DEAD LOAD = 30 lbs PER LINEAR FOOT
5. DO NOT BEGIN WORK ON JOISTS NOR MECHANICAL UNITS UNTIL THE FOLLOWING IS VERIFIED AND/OR SATISFIED AS NOTED BELOW.
  - A. SPECIAL JOISTS (SJ1 & SJ2) CONCENTRATED DEAD LOAD VALUES AND LOCATIONS ARE BASED UPON INFORMATION SUPPLIED TO THE STRUCTURAL ENGINEER BY THE MECHANICAL ENGINEER THAT THAT THE MECHANICAL UNIT POSITIONED BETWEEN THESE JOISTS IS TO BE MITSUBISHI SYSTEM PURY-P16BYSKMNU-A(-BS) WITH MODULE 1 = PURY-P196YKMNU-A(-BS) PLUS MODULE 2 = PURY-PT2YKMNU-A(-BS). IF IT IS NOT, NOTIFY ENGINEER AND OBTAIN HIS WRITTEN INSTRUCTIONS BEFORE BEGINNING WORK.  
 IF A DIFFERENT MECHANICAL UNIT IS TO BE USED BY CONTRACTOR, CONTRACTOR MUST SUBMIT TECHNICAL DATA ON PROPOSED UNIT TO THE ENGINEER AND IS TO BE RESPONSIBLE FOR REIMBURSING THE OWNER (AHTD) FOR THE ENGINEER'S CHARGES TO DESIGN AND DETAIL REQUIRED REVISED FRAMING FOR SUCH AND FOR ANY RESULTING INCREASES IN JOIST AND/OR OTHER CONSTRUCTION COSTS.
  - B. SPECIAL JOISTS (SJ3 & SJ4) CONCENTRATED DEAD LOAD VALUES AND LOCATIONS ARE BASED UPON INFORMATION SUPPLIED TO THE STRUCTURAL ENGINEER BY THE MECHANICAL ENGINEER THAT THAT MECHANICAL UNIT POSITIONED BETWEEN THESE JOISTS IS TO BE THE VALENT MODEL VPR-110-5A-15E-C-00X. IF IT IS NOT, NOTIFY ENGINEER AND OBTAIN HIS WRITTEN INSTRUCTIONS BEFORE BEGINNING WORK.  
 IF A DIFFERENT MECHANICAL UNIT IS TO BE USED BY CONTRACTOR, CONTRACTOR MUST SUBMIT TECHNICAL DATA ON PROPOSED UNIT TO THE ENGINEER AND IS TO BE RESPONSIBLE FOR REIMBURSING THE OWNER (AHTD) FOR THE ENGINEER'S CHARGES TO DESIGN AND DETAIL REQUIRED REVISED FRAMING FOR SUCH AND FOR ANY RESULTING INCREASES IN JOIST AND/OR OTHER CONSTRUCTION COSTS.



CONSTRUCTION DOCUMENTS

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
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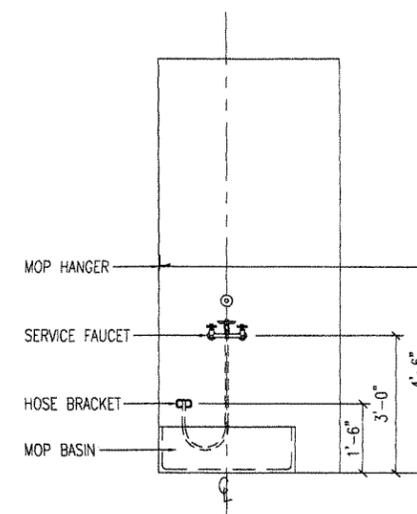
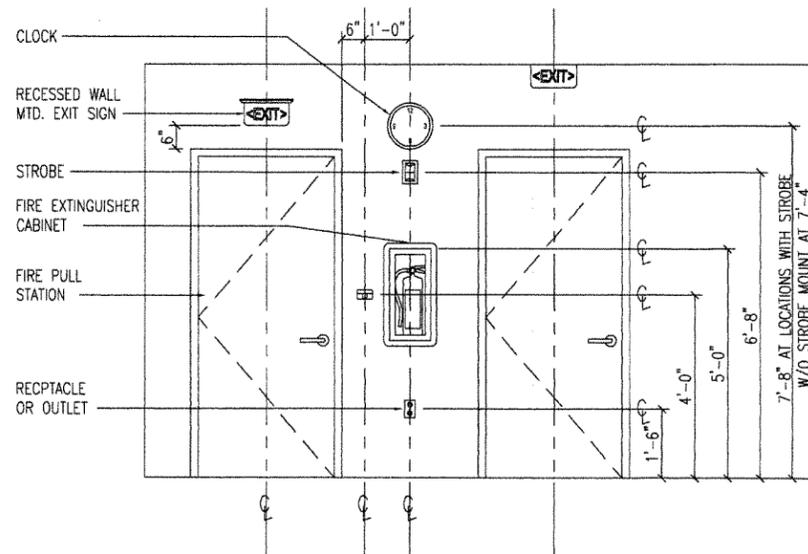
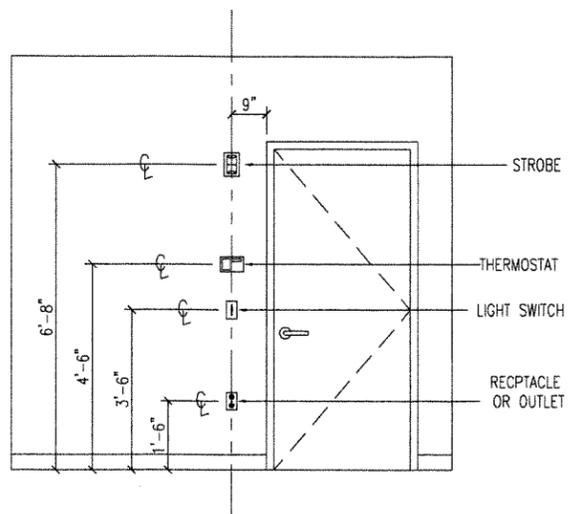
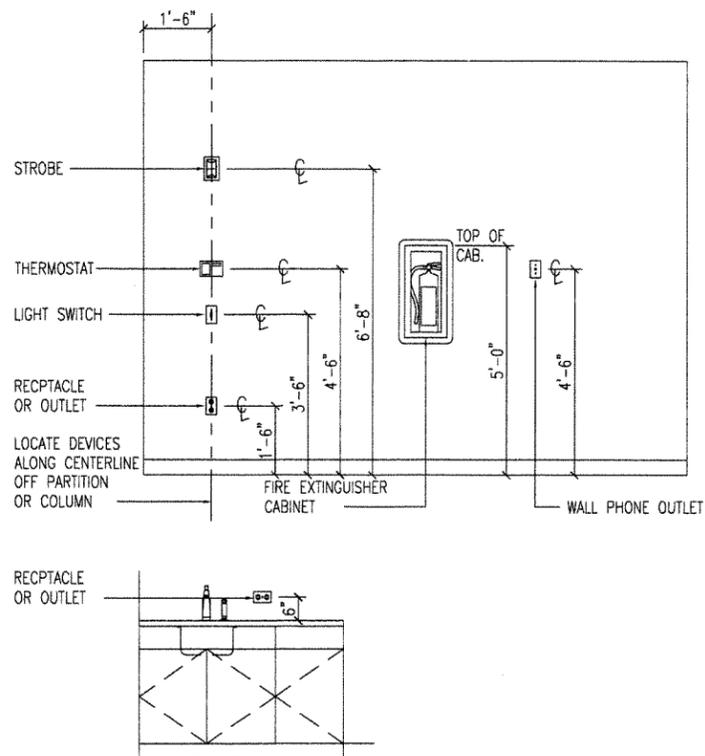


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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>SPECIAL JOIST DIAGRAMS</b>	
Drawing Number <b>S-507</b>	
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MOUNTING HEIGHTS



ABBREVIATIONS

<b>A</b>	A.C. AIR CONDITIONED A.D. AREA DRAIN A.H.U. AIR HANDLING UNIT ALT. ALTERNATE ALUM. ALUMINUM AMP., A. AMPERES A.O. ACCESS OPENING APPROX. APPROXIMATELY ARCH. ARCHITECTURAL A.T. ASPHALT TILE A.T.C. ACOUSTIC TILE CEILING
<b>B</b>	BAL. BALANCE BD. BOARD BLDG. BUILDING BLK. BLANK BM. BEAM BOT. BOTTOM BRG. BEARING B.T.U.H. BRITISH THERMO UNIT/HOUR
<b>C</b>	CAB. CABINET CAP. CAPACITY C/B. CIRCUIT BREAKER C.D. CEILING DIFFUSER CEM. CEMENT CER. CERAMIC C.F.M. CUBIC FEET/MINUTE CKT. CIRCUIT E. CENTER LINE CEIL. CEILING CL. CLOSET C.M.U. CONCRETE MASONRY UNIT C.O. CLEAN OUT COL. COLUMN CONC. CONCRETE COND. CONDENSATE CONN. CONNECTION CONST. CONSTRUCTION CONT. CONTINUOUS CONTR. JT. CONTRACTION JOINT C.S.C. COLOR SYMBOL CODE C.T. CERAMIC TILE C.T.B. CERAMIC TILE BASE C. TO C. CENTER TO CENTER

<b>D</b>	DET. DETAIL DIA. DIAMETER DIFF. DIFFUSER DIM. DIMENSION DISC. DISCONNECT D.J. DUMMY JOINT DN. DOWN DR. DRAIN D.S. DOWN SPOUT DWG.(S) DRAWING(S)
<b>E</b>	EA. EACH ELEC. ELECTRIC EQUIPMENT E.W.C. ELECTRIC WATER COOLER EXH. EXHAUST EXP. JT. EXPANSION JOINT EXT. EXTERIOR EXIST. EXISTING
<b>F</b>	F.A. FIRE ALARM F.C. FLEXIBLE CONNECTION F.D. FLOOR DRAIN F.E.C. FIRE EXTINGUISHER CABINET FIN. FINISH FL. FLOOR FT. FOOT, FEET FTG. FOOTING
<b>G</b>	GA. GAGE GAL. GALLON GALV. GALVANIZED G.F.E. GOVERNMENT FURNISHED EQUIPMENT GL. GLASS GND. GROUND GOVT. GOVERNMENT G.P.H. GALLONS/HOUR G.P.M. GALLONS/MINUTE GR. GRILLE G.W.B. GYPSUM WALL BOARD

<b>H</b>	H. HIGH H.B. HOSE BIBB H.C. HOLLOW CORE HT. HEIGHT H.M. HOLLOW METAL H.P. HORSE POWER HR. HOUR HTG. HEATING HTR. HEATER H.&V. HEATING AND VENTILATING HW. HARDWARE HYD. HYDRANT
<b>I</b>	I.D. INSIDE DIAMETER I.E. INVERT ELEVATION IN. INCHES INCAND. INCANDESCENT INSUL. INSULATION INT. INTERIOR
<b>J</b>	J.B. JUNCTION BOX JCT. JUNCTION JT. JOINT
<b>K</b>	KVA KILOVOLT AMPERE
<b>L</b>	LB.# POUND L.G. LONG L.P. LIGHTING PANEL LTG. LIGHTING

<b>M</b>	M. MOTOR MAINT. MAINTENANCE MAX. MAXIMUM M.D.P. MAIN DISTRIBUTION PANEL MECH. MECHANICAL MTL. METAL MIN. MINIMUM MISC. MISCELLANEOUS M.O. MASONRY OPENING M.T. METAL THRESHOLD MTD. MOUNTED MTG. MOUNTING M.V. MECHANICAL VENTILATION M.G.T. MATT GLAZE TILE
<b>N</b>	N.A. NOT APPLICABLE N.I.C. NOT IN CONTRACT NO. NUMBER
<b>O</b>	O.A. OUTDOOR AIR OL. OVERLOAD OPNG. OPENING OPP. OPPOSITE O.S.D. OPEN SIGHT DRAIN
<b>P</b>	P. PAPER PART. PARTITION PER. PERIMETER PL. PLATE PLB. PLUMBING PLYWD. PLYWOOD PNL. PANEL PRESS. PRESSURE PSF. POUNDS/SQUARE FOOT PSI. POUNDS/SQUARE INCH PSI.G. POUNDS/SQUARE INCH GAGE PT. POINT PTD. PAINTED
<b>Q</b>	QTR. QUARTER QUAN. QUANTITY

<b>R</b>	R. RISER R.A. RETURN AIR RAD. RADIUS RD. ROUND REG. REGISTER REINF. REINFORCING REQ. REQUIRED RET. RETURN R.G. RETURN GRILLE RM. ROOM R.P.M. REVOLUTION/MINUTE
<b>S</b>	S. SUPPLY S.A. SUPPLY AIR SCH. SCHEDULE SECT. SECTION SERV. SERVICE SHT. SHEET S.J. SLIP JOINT SPEC. SPECIFICATIONS SQ. FT. SQUARE FEET ST. STEEL STOR. STORAGE STRUC. STRUCTURAL SUSP. SUSPENDED SW. SWITCH
<b>T</b>	T. TOILET TEL. TELEPHONE TEMP. TEMPERATURE THK. THICKNESS THD. THRESHOLD TOIL. TOILET TYP. TYPICAL
<b>V</b>	V. VOLT V.A.T. VINYL ASBESTOS TILE VENT. VENTILATION VERT. VERTICAL VTR. VENT THRU ROOF
<b>W</b>	W. WATT W. WITH WC. WAINSCOTING WD. WOOD W.D. WINDOW DIMENSION WF. WIDE FLANGE W.G. WATER GAGE WP. WATER-PROOF WTR. WATER W.W.F. WELDED WIRE FABRIC

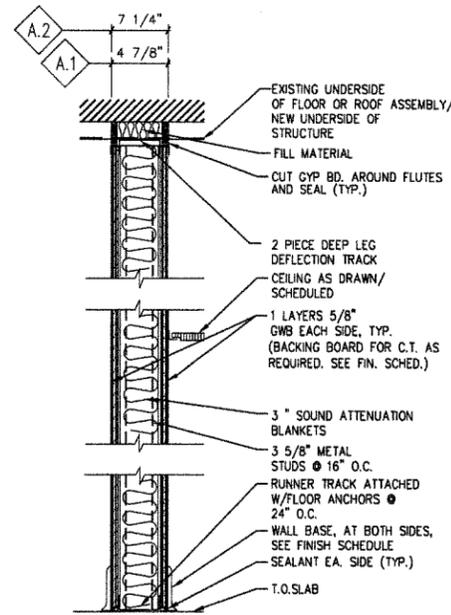
DRAWING TAG SYMBOLS

	(DRAWING NUMBER) SECTION TAG (SHEET WHERE DRAWN)
	(DRAWING NUMBER) EXT. ELEVATION TAG (SHEET WHERE DRAWN)
	(DRAWING NUMBER) INT. ELEVATION TAG (SHEET WHERE DRAWN)
	(DRAWING NUMBER) DETAIL TAG (SHEET WHERE DRAWN)
	(ROOM NAME) FLOOR PLAN ROOM TAG (ROOM NUMBER)
	DOOR TAG WINDOW TAG
	PARTITION TYPE TAG
	REVISION TAG
	BATH SPECIALTIES TAG

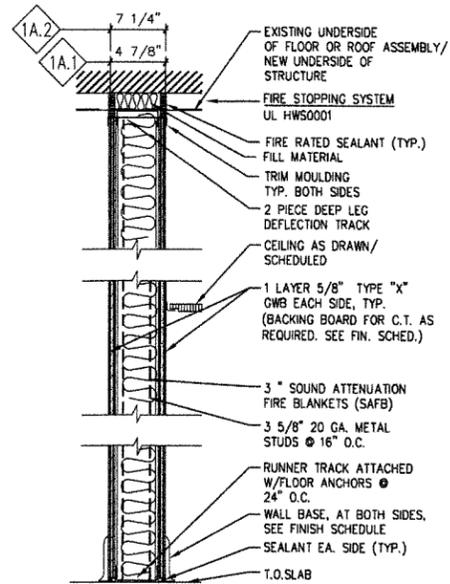
MATERIAL LEGEND

EARTH	
CONCRETE	
C.M.U.	
GYPSUM BOARD OR SAND	
GLASS	
STEEL	
ALUMINUM	
SHEET METAL	
FINISHED WOOD	
ROUGH WOOD	
PLYWOOD	
BATT INSULATION	

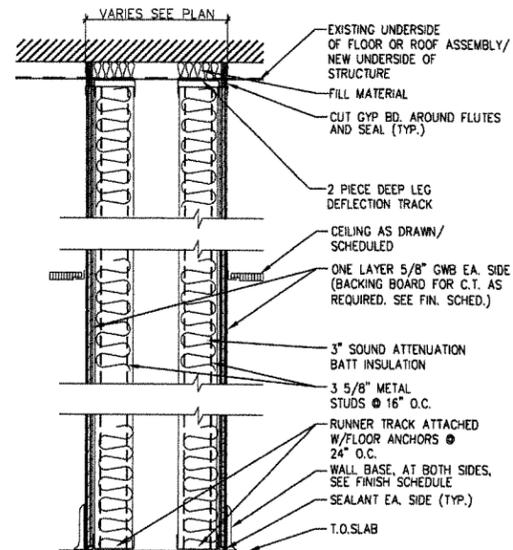
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Public Transit Office  
C-98 REGISTERED ARCHITECTS  
CROMWELL ARCHITECTS ENGINEERS  
ARCHITECT OF RECORD  
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Issue Date 14-DECEMBER-2012 Project Number 2012-102  
Drawing Title MOUNTING HTS., ABBREVIATIONS AND SYMBOLS  
Drawing Number A-001  
28 of 78



NON-RATED  
ACOUSTICAL PARTITION



1 HOUR  
ACOUSTICAL PARTITION

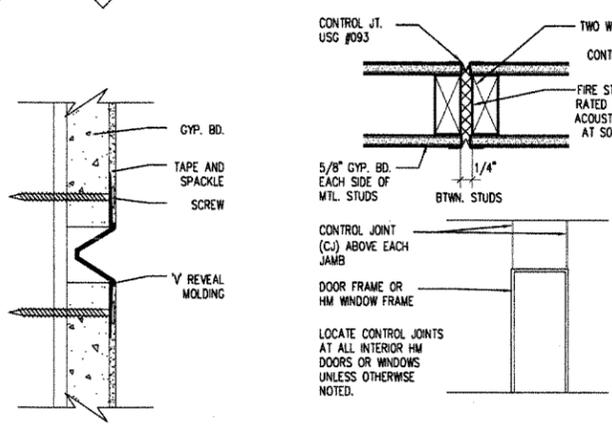


NON-RATED  
CHASE WALL

- A.1 AS SHOWN ON PLANS
- A.2 SAME AS A.1 EXCEPT WITH 6\"/>
- A.3 SAME AS A.1 EXCEPT WITH NO SOUND BLANKET
- A.4 SAME AS A.2 EXCEPT WITH NO SOUND BLANKET

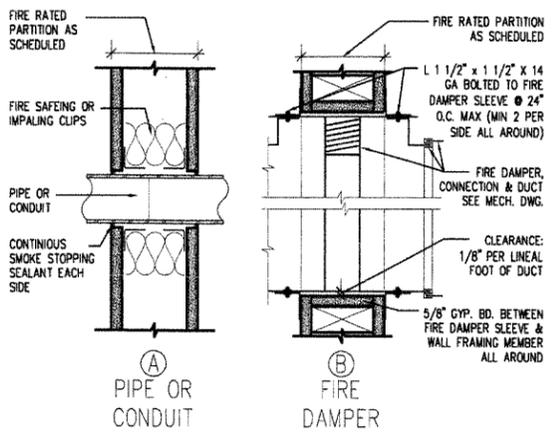
- 1A.1 AS SHOWN ON PLANS
- 1A.2 SAME AS 1A.1 EXCEPT WITH 6\"/>

- C.1 AS SHOWN ON PLANS
- C.2 SIMILAR TO C.1 EXCEPT GWB ROOM SIDE ONLY AND BATT INSULATION PLACED IN STUD ADJACENT TO EXTERIOR WALL

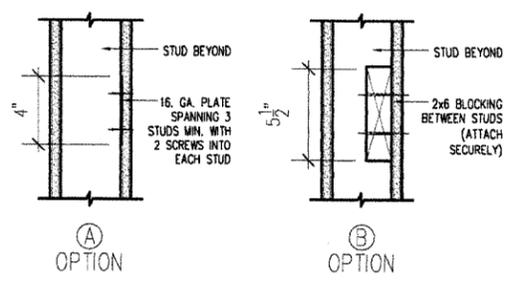


1 GYP. BD. REVEAL JOINT  
A-002 NOT TO SCALE

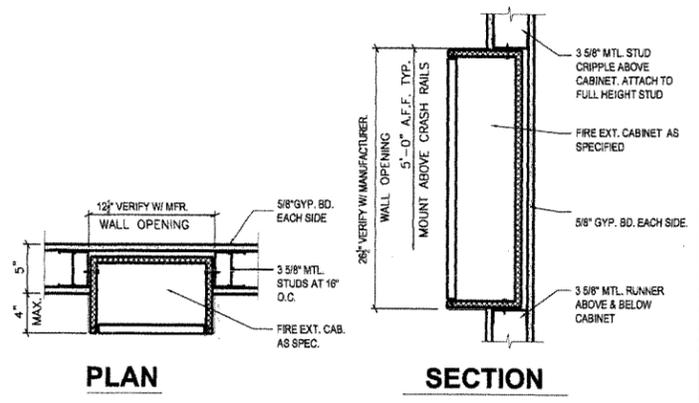
2 CONTROL JOINT  
A-002 NOT TO SCALE



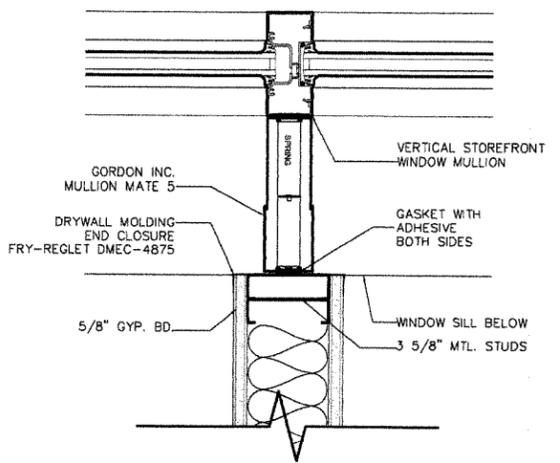
3 PENETRATION OF RATED PARTITIONS  
A-002 NOT TO SCALE



4 WALL MOUNTED ITEMS  
A-002 NOT TO SCALE



5 GYP. BD. REVEAL JOINT  
A-002 NOT TO SCALE



6 TYPICAL WAL TO MULLION CONNECTION  
A-002 NOT TO SCALE

- NOTES:**
- AT METAL STUD PARTITIONS PROVIDE APPROPRIATE SIZE FRAMING AND HORIZONTAL/ DIAGONAL BRACING, AS REQUIRED PER MANUFACTURER SPECIFICATIONS.
  - ALL PENETRATIONS IN FIRE RATED PARTITIONS AND CEILINGS SHALL BE FIRE STOPPED TO MATCH WALL RATING - RATINGS SHALL BE AS PER CODE REQUIREMENTS.
  - MAINTAIN INTEGRITY OF ALL RATED PARTITIONS AS REQUIRED AT ELECTRIC CONDUITS, J-BOXES, PANELS, PLUMBING & FIRE EXTINGUISHERS.
  - PROVIDE HORIZONTAL METAL STUD BRACING AT CHASE WALLS AS PER MANUFACTURERS SPECIFICATIONS.
  - PROVIDE CONTINUOUS BLOCKING FOR ALL EQUIPMENT RACKS, LIGHTING FIXTURES, CASEWORK, COUNTERS, SHELVES, ACCESSORIES, AND ALL EQUIPMENT OR ITEMS SUPPLIED BY THE CONTRACTOR OR BY THE OWNER, AS REQUIRED.
  - REFER TO FINISH SCHEDULE FOR FINISHES (FINISHES ARE NOT SHOWN ON WALL TYPES).
  - ALL DIMENSIONS ARE TO THE FACE OF PARTITION UNLESS OTHERWISE SHOWN.
  - ANY DISCREPANCIES IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.

Arkansas State Highway and Transportation Department  
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REGISTERED ARCHITECT  
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ARCHITECT OF RECORD

**CROMWELL**

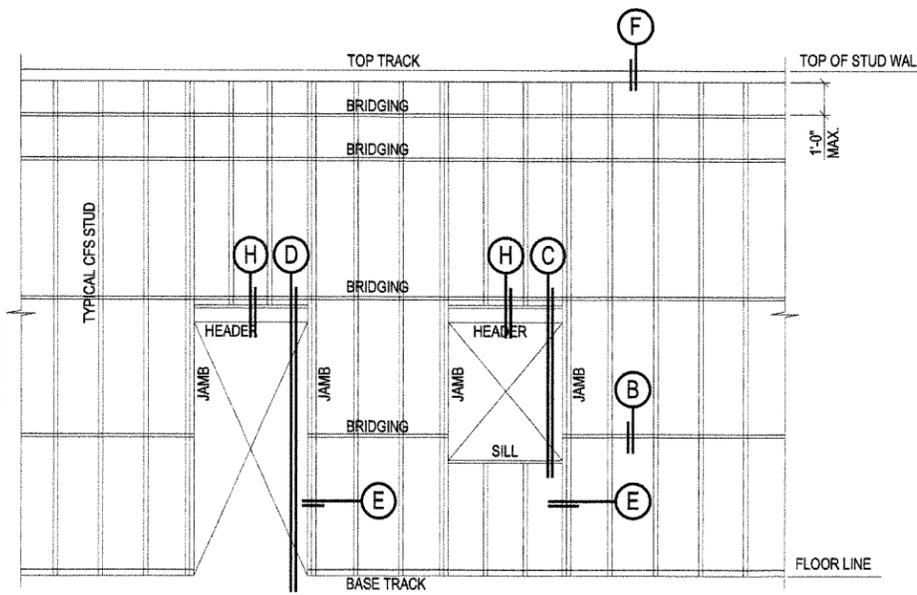
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STRUCTURAL ENGINEER  
H. JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.378.7246 F: 501.376.6627

Issue Date 14-DECEMBER-2012 Project Number 2012-102

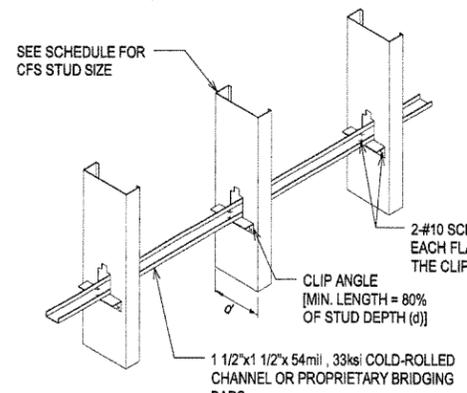
Drawing Title **PARTITION SCHEDULE**

Drawing Number **A-002**  
29 of 78

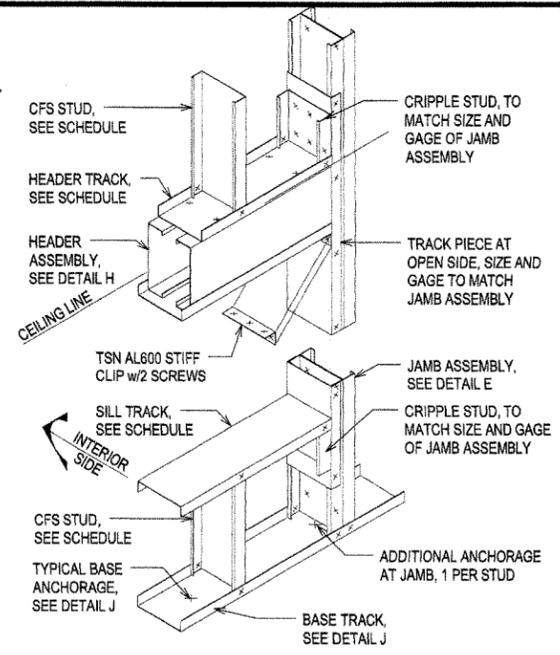


**A** EXTERIOR WALL ELEVATION

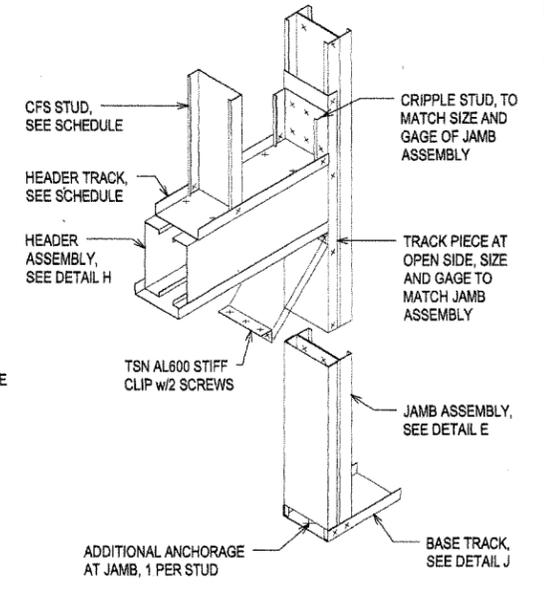
**HORIZONTAL BRIDGING NOTES:**  
 1. HORIZONTAL BRIDGING REQUIRED AT 4'-0" O.C. SPACING:  
 a. ALONG ENTIRE HEIGHT OF ALL EXTERIOR WALLS UNLESS NOTED OTHERWISE.  
 b. STUD KNOCKOUTS MUST ALIGN HORIZONTALLY FOR THE BRIDGING TO THREAD CONTINUOUSLY THROUGHOUT THE WALL LENGTH.  
 c. INSTALL A CONTINUOUS ROW OF BRIDGING TO EACH STUD, AT UPPER-MOST KNOCKOUT, NOT MORE THAN 12 INCHES FROM TOP OF WALL.  
 d. DO NOT BRIDGE BUILDING EXPANSION AND CONTROL JOINTS WITH COLD-FORMED METAL FRAMING. INDEPENDENTLY FRAME BOTH SIDES OF JOINTS.  
 e. AT BRIDGING SPLICE USE 12" U CHANNEL INVERTED OVER CENTER OF SPLICE w/3-#10-16 SCREWS ON EACH SIDE OF SPLICE.



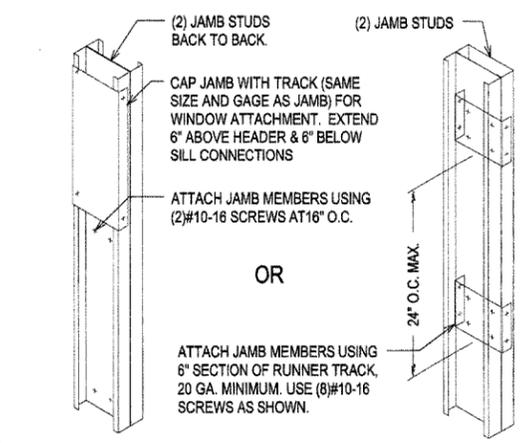
**B** TYPICAL BRIDGING



**C** TYP. WINDOW HEAD AND SILL



**D** TYPICAL DOOR HEAD

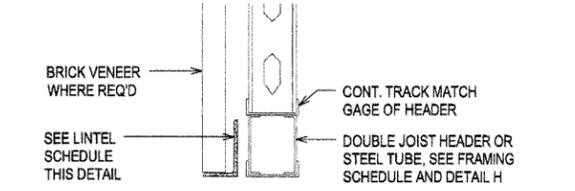


**E** TYPICAL JAMB ASSEMBLIES

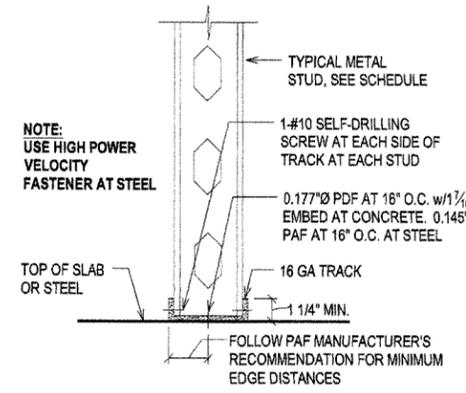
**NOTES:**  
 1. LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE.  
 2. 8" MIN. BEARING EACH END IN MASONRY.  
 3. STEEL LINTELS FOR EXTERIOR WALLS SHALL BE GALVANIZED.

MASONRY LINTEL SCHEDULE	
NOMINAL WALL THICKNESS	WIDTH OF OPENING
BRICK	10" TO 5'-4"
	5'-4" TO 10'-0"
	L5x5x5/16"
	L5x5x3/8"

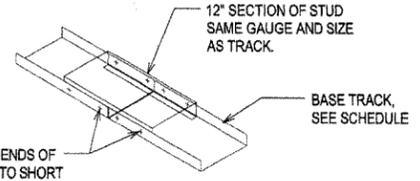
\*NOTE: MAXIMUM ALLOWABLE BRICK OVERHANG = 1". SEE ARCH DWGS FOR SPECIAL CONDITIONS OR DETAILS NOT SHOWN



**G** TYPICAL LINTEL AT OPENINGS



**J** TYP. BASE TRACK ANCHORAGE

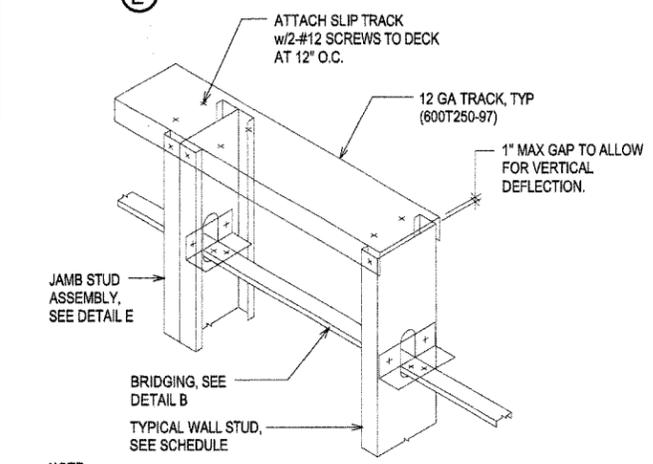


**K** TYPICAL SPLICE IN TRACK

CFS WALL OPENING FRAMING SCHEDULE			
OPENING WIDTH	JAMB ASSEMBLY TYPE AND SIZE	HEAD ASSEMBLY TYPE AND SIZE	SILL SIZE
8'-0" MAX	2 x 600S162-43	2 x 600T125-54 & 2 x 600S162-43	600T125-54
11'-4" MAX	2 x 600S200-54	2 x 600T125-54 & 2 x 600S200-54	600T200-54

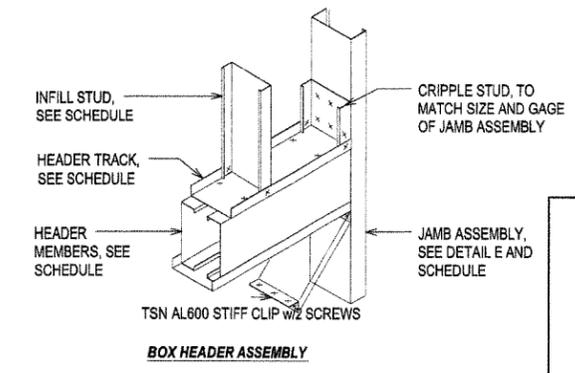
EXTERIOR COLD-FORMED STEEL (CFS) STUD SCHEDULE							
VENEER TYPE	WALL LOCATION	DESIGN SPAN	STUD DESIGNATION	STUD DIMENSIONS			SPACING
				DEPTH	WIDTH	THICKNESS	
BRICK OR METAL PANEL	TYPICAL	14'-0"	600S162-43	6"	1 5/8"	18 GA.	16" O.C.

**NOTE:**  
 1. SEE DETAIL 1A/A-003 FOR CONDITIONS AT WALL OPENINGS.  
 2. SCHEDULE APPLIES UNO IN SPECIFIC DETAILS.  
 3. ALL EXTERIOR CFS WALLS TO HAVE BRIDGING AT 4'-0" O.C., SEE DETAIL B.

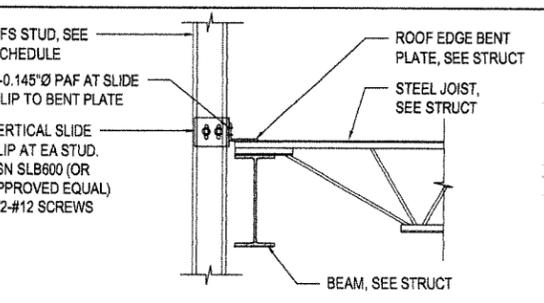


**NOTE:** USE SLIP TRACK WHERE STUD WALL EXTENDS TO BOTTOM OF ROOF DECK

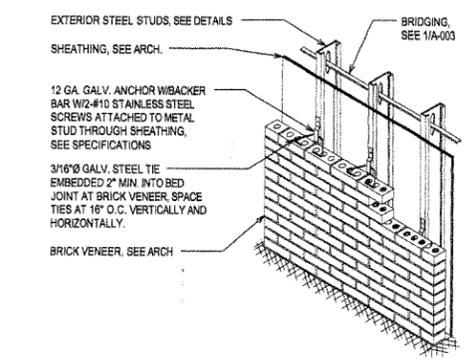
**F** SLIP TRACK



**H** TYPICAL HEADER ASSEMBLIES



**2** TYPICAL EXT. STUD ANCHORAGE TO ROOF STRUCTURE



**3** TYPICAL BRICK ANCHORAGE TO EXTERIOR CFS STUDS

**1** TYPICAL NON-LOAD BEARING COLD FORMED STEEL FRAMING DETAILS  
 A-003 NOT TO SCALE



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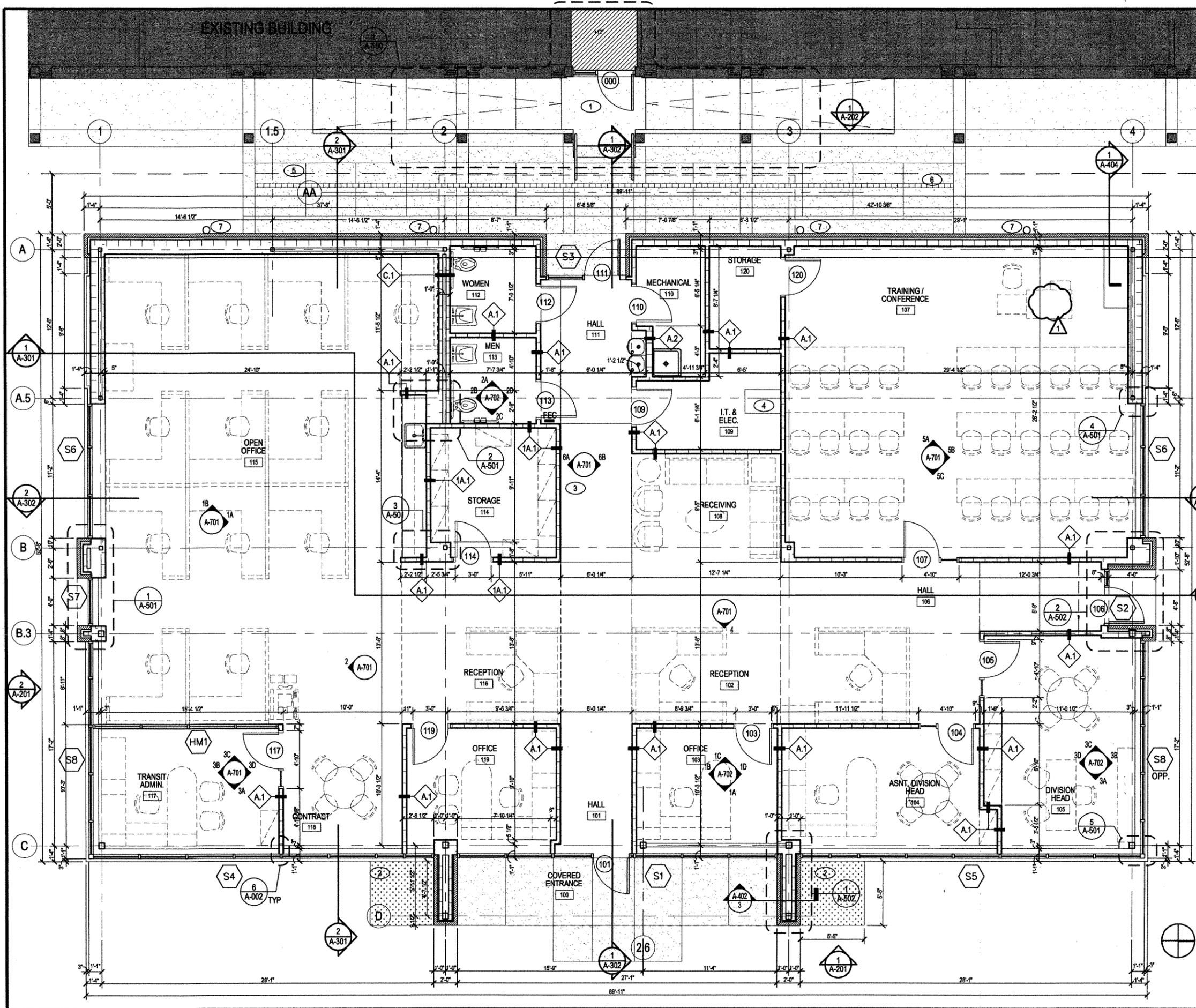


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Issue Date 14-DECEMBER-2012 Project Number 2012-102  
 Drawing Title **TYPICAL EXTERIOR COLD FORMED STEEL FRAMING**  
 Drawing Number **A-003**  
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**SYMBOL LEGEND**

- WALL SECTION
- EXTERIOR ELEVATION TAG
- INTERIOR ELEVATION TAG
- DETAIL TAG
- DOOR TAG, SEE A-901
- WINDOW TAG, SEE A-901
- BATH SPECIALTIES TAG
- FLR PLAN ROOM TAG
- PARTITION TYPE TAG
- FIRE EXTINGUISHER CABINET
- ELECTRICAL PANEL BOARD
- REVISION TAG

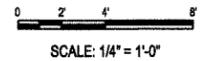
**GENERAL NOTES:**

1. REFER TO SHEET A02 FOR INTERIOR PARTITION TYPES.
2. CONTRACTOR SHALL VERIFY THAT ALL FIELD CONDITIONS AND DIMENSIONS ARE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
4. REFER TO M.E.P. DRAWINGS FOR ADDITIONAL INFORMATION & FULL SCOPE OF M.E.P. WORK
5. EXIST CONSTRUCTION TO REMAIN - SHADED; NEW CONSTRUCTION WITHOUT SHADING.
7. ALL NEW GWB CEILINGS AND WALLS TO BE PAINTED (PTD) -ORANGE PEEL OR TO MATCH EXISTING.

**KEYED NOTES:**

1. NEW SIDEWALK AND RAMP BETWEEN EXISTING PLANNING BUILDING AND NEW CONSTRUCTION.
2. BLACK RIVER STONE IN HATCHED AREA WITH METAL LANDSCAPE EDGING.
3. NEW FLOOR TO CEILING CUSTOM VINYL WALL COVERING.
4. COMPUTING RACK - PROVIDED BY OWNER.
5. NEW CONCRETE SIDEWALK
6. NEW 4" TRENCH DRAIN GRATING.
7. 6" Ø CAST IRON HUB FOR DOWNSPOUT.

1 GROUND FLOOR PLAN  
A-101 1/4" = 1'-0"



No.	Date	Description
1	01-02-2013	ADDENDUM 001



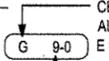
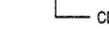
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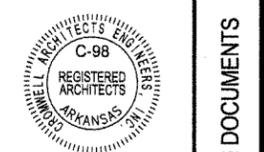
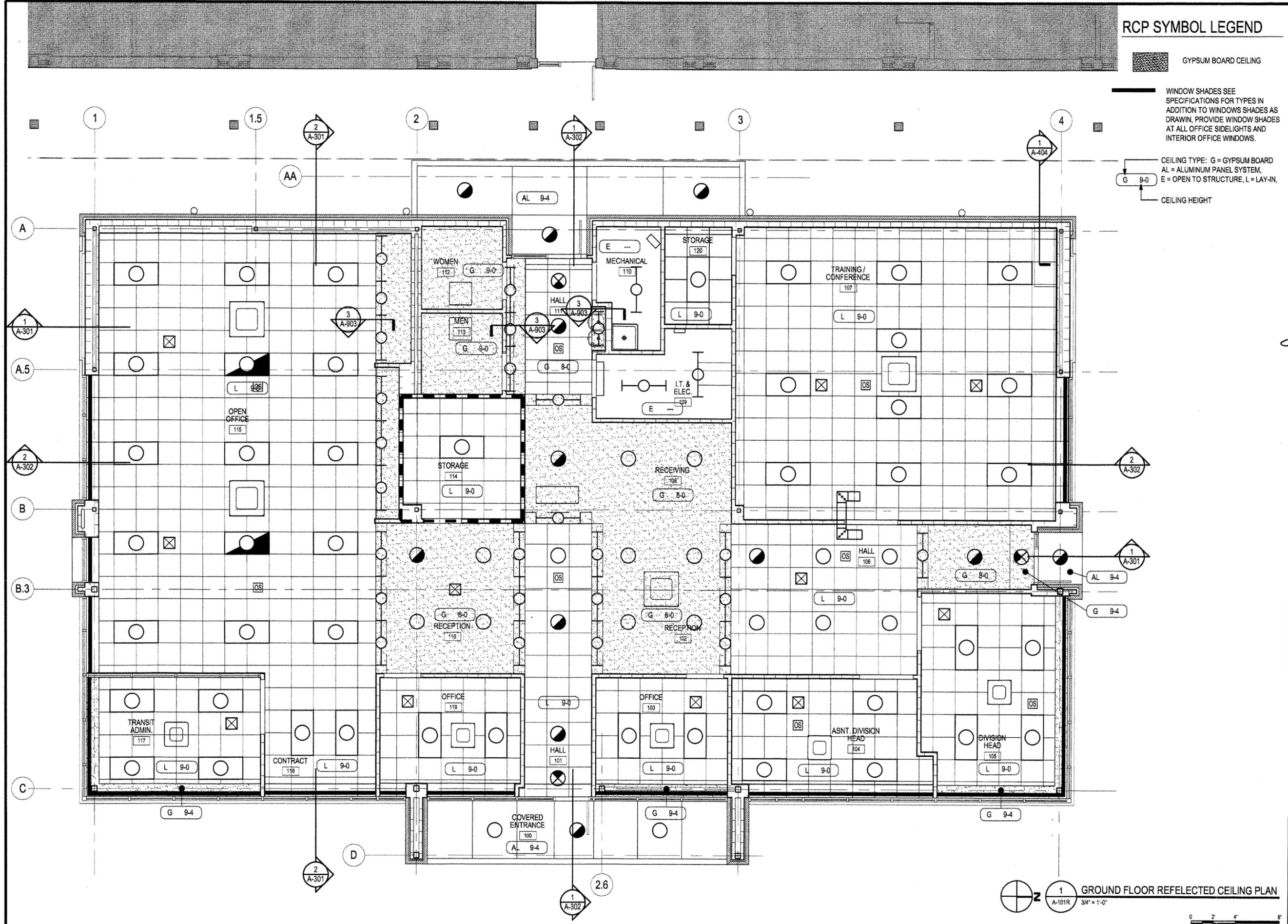
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Issue Date 14-DECEMBER-2012	Project Number 2012-102
<b>GROUND FLOOR PLAN</b>	
Drawing Number <b>A-101</b> 32 of 78	

**RCP SYMBOL LEGEND**

-  GYPSUM BOARD CEILING
-  WINDOW SHADES SEE SPECIFICATIONS FOR TYPES IN ADDITION TO WINDOW SHADES AS DRAWN, PROVIDE WINDOW SHADES AT ALL OFFICE SIDELIGHTS AND INTERIOR OFFICE WINDOWS.
-  CEILING TYPE: G = GYPSUM BOARD  
AL = ALUMINUM PANEL SYSTEM,  
E = OPEN TO STRUCTURE, L = LAY-IN.
-  CEILING HEIGHT



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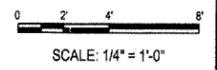
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Issue Date 14-DECEMBER-2012 Project Number 2012-102

Drawing Title  
**GROUND FLOOR REFLECTED CEILING PLAN**

Drawing Number  
**A-101R**  
33 of 78

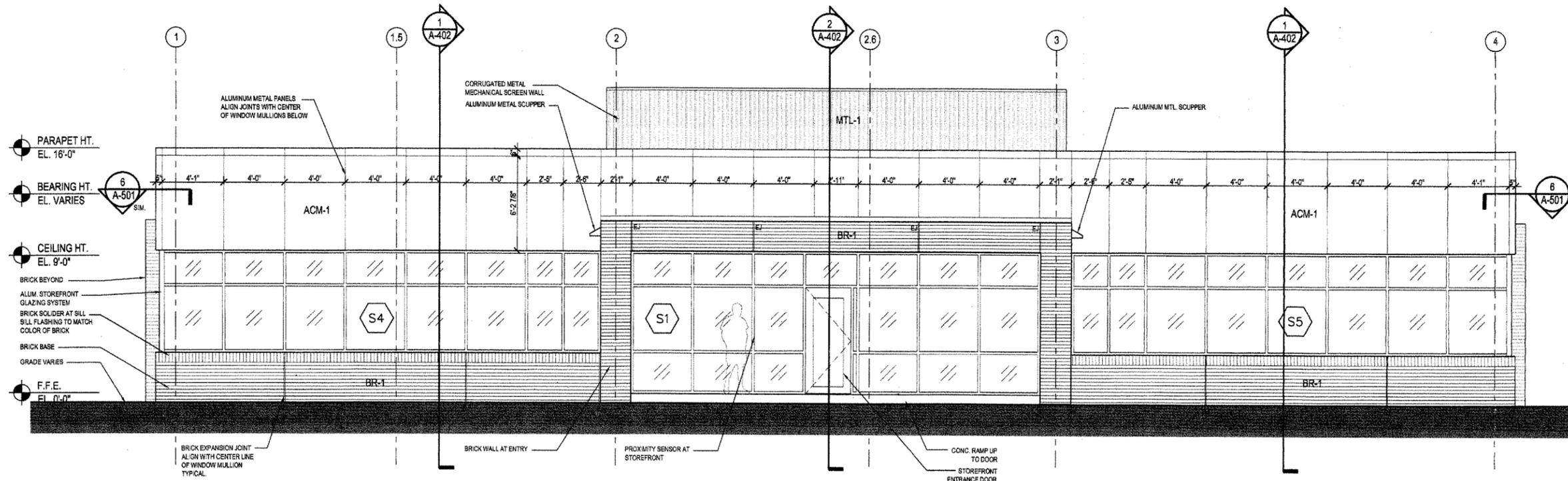
**GROUND FLOOR REFLECTED CEILING PLAN**  
1 A-101R 3/4" = 1'-0"



Description  
Date  
No.

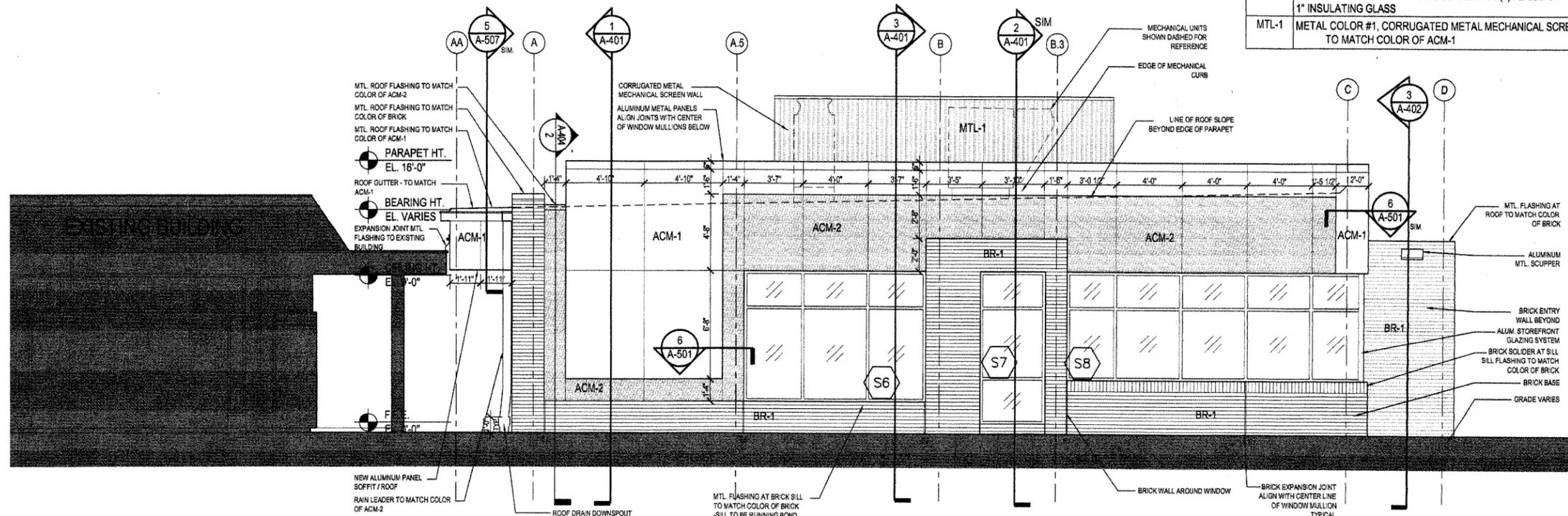
CONSTRUCTION DOCUMENTS





1 EAST EXTERIOR ELEVATION  
A-201 1/4" = 1'-0"

EXTERIOR FINISH LEGEND	
BR-1	BRICK COLOR - ACME BLEND 100 'BURNT PUMPKIN' - TO MATCH EXISTING CAMPUS STANDARD
ACM-1	ALUMINUM COMPOSITE MATERIAL - COLOR #1 - WHITE TO MATCH EXISTING CAMPUS SIDING, VERIFY COLOR WITH ARCHITECT PRIOR TO ORDERING
ACM-2	ALUMINUM COMPOSITE MATERIAL - COLOR #2 - TO MATCH SW# 7066 'GRAY MATTERS'
SF-1	ALUMINUM STOREFRONT GLAZING SYSTEM - PREFINISHED COLOR TO MATCH ACM-1.
G-1	GLAZING COLOR - TO MATCH SOLARBAN 80 (2) XL CLEAR + CLEAR 1" INSULATING GLASS
MTL-1	METAL COLOR #1, CORRUGATED METAL MECHANICAL SCREEN, TO MATCH COLOR OF ACM-1



2 SOUTH EXTERIOR ELEVATION  
A-201 1/4" = 1'-0"

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

No.	Date	Description



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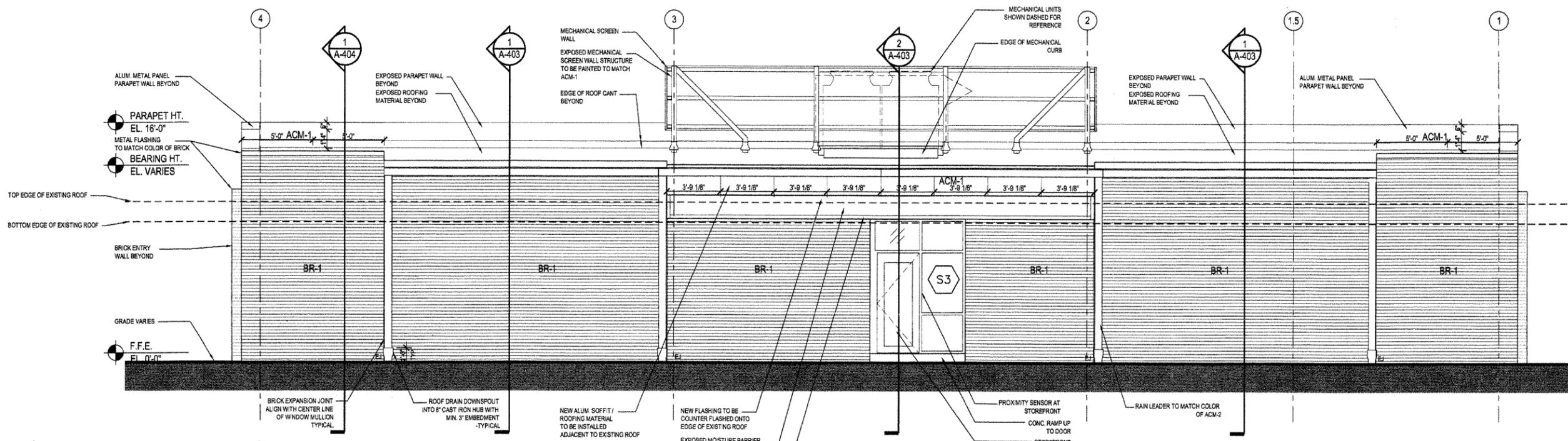
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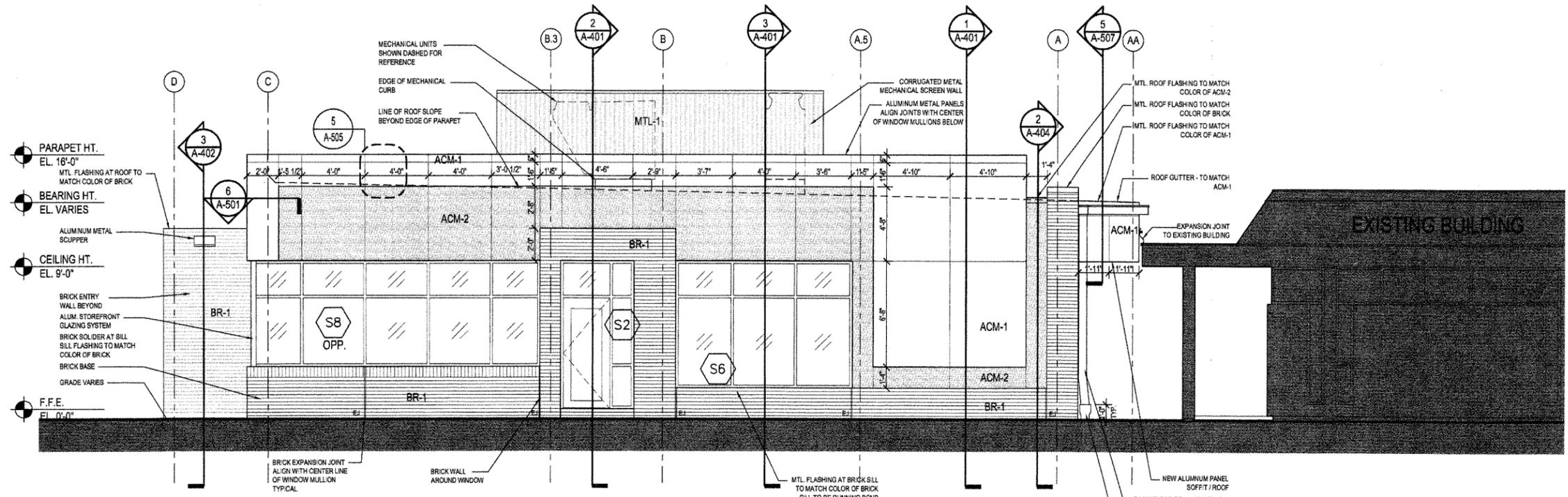
Drawing Title  
**EXTERIOR ELEVATIONS**

Drawing Number  
**A-201**  
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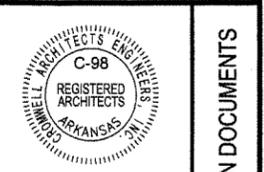
**1 WEST EXTERIOR ELEVATION**  
A-202 1/4" = 1'-0"

EXTERIOR FINISH LEGEND  
SEE EXTERIOR FINISH SCHEDULE ON SHEET A-201



**2 NORTH EXTERIOR ELEVATION**  
A-202 1/4" = 1'-0"

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



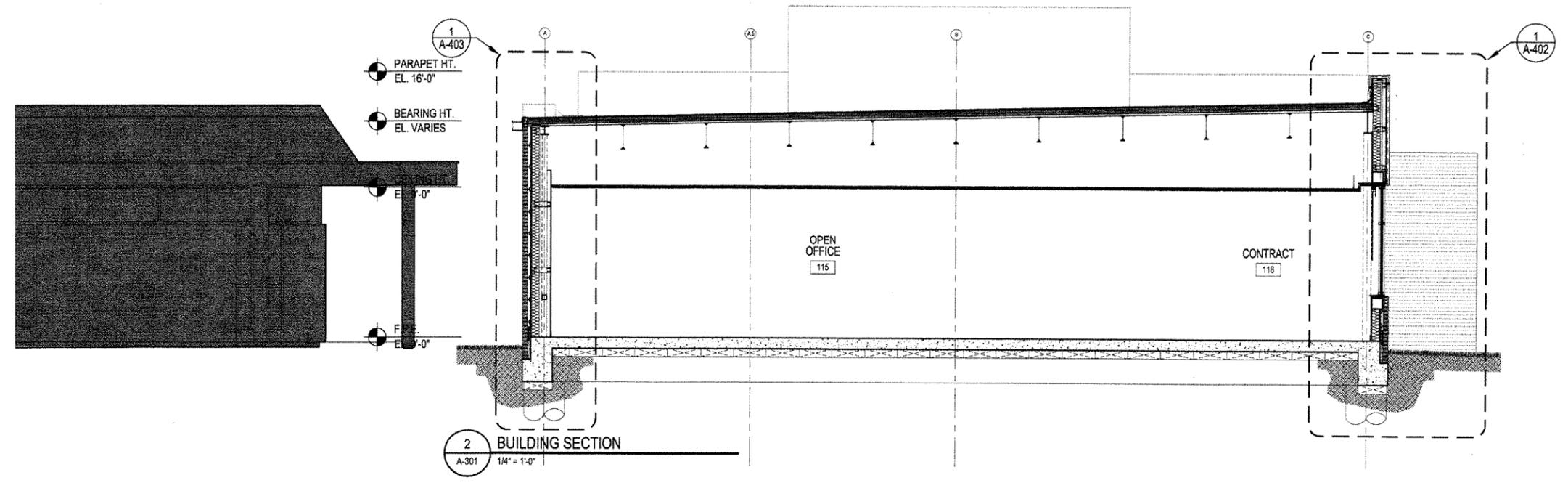
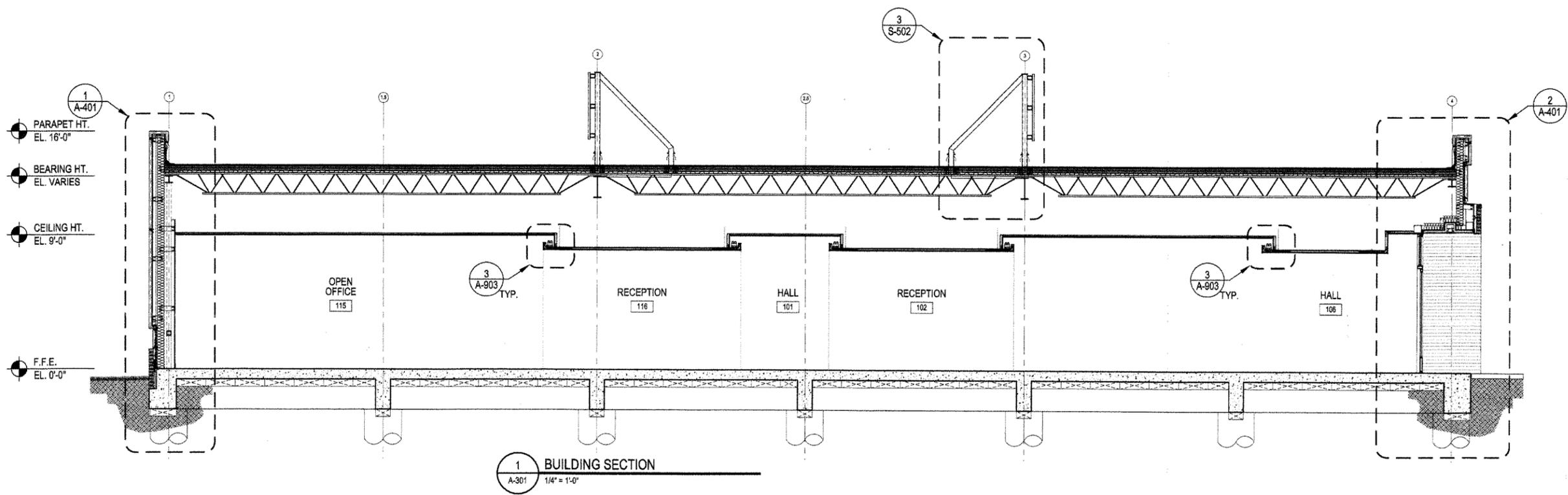
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Drawing Title <b>EXTERIOR ELEVATIONS</b>	
Drawing Number <b>A-202</b> 36 of 78	

CONSTRUCTION DOCUMENTS



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

No.	Date	Description

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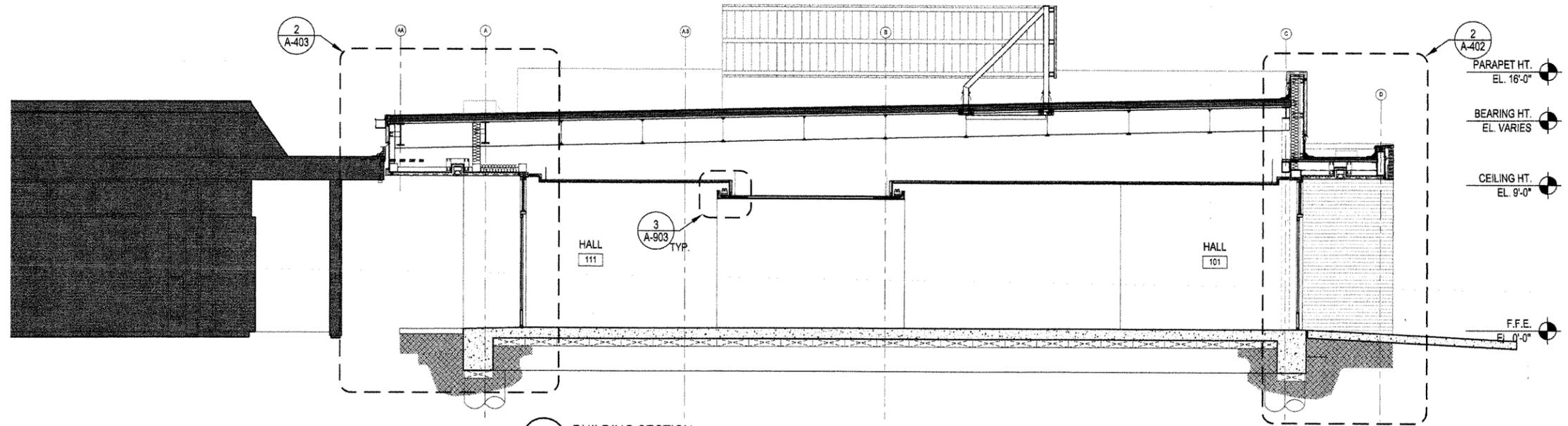
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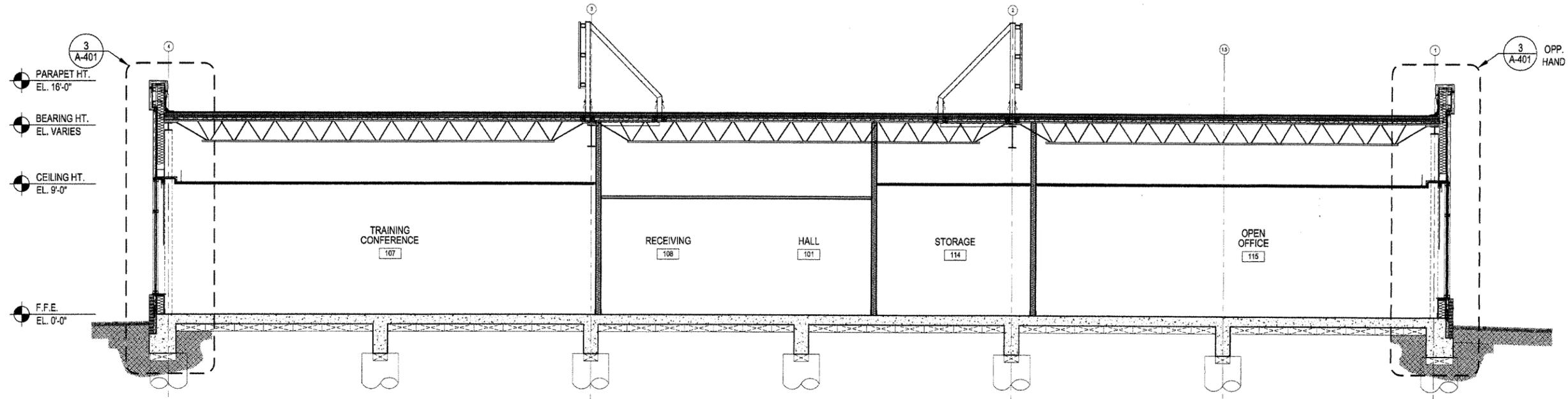
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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>BUILDING SECTIONS</b>	
Drawing Number <b>A-301</b>	
37 of 78	



1 BUILDING SECTION  
A-302 1/4" = 1'-0"



2 BUILDING SECTION  
A-302 1/4" = 1'-0"

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

No.	Date	Description



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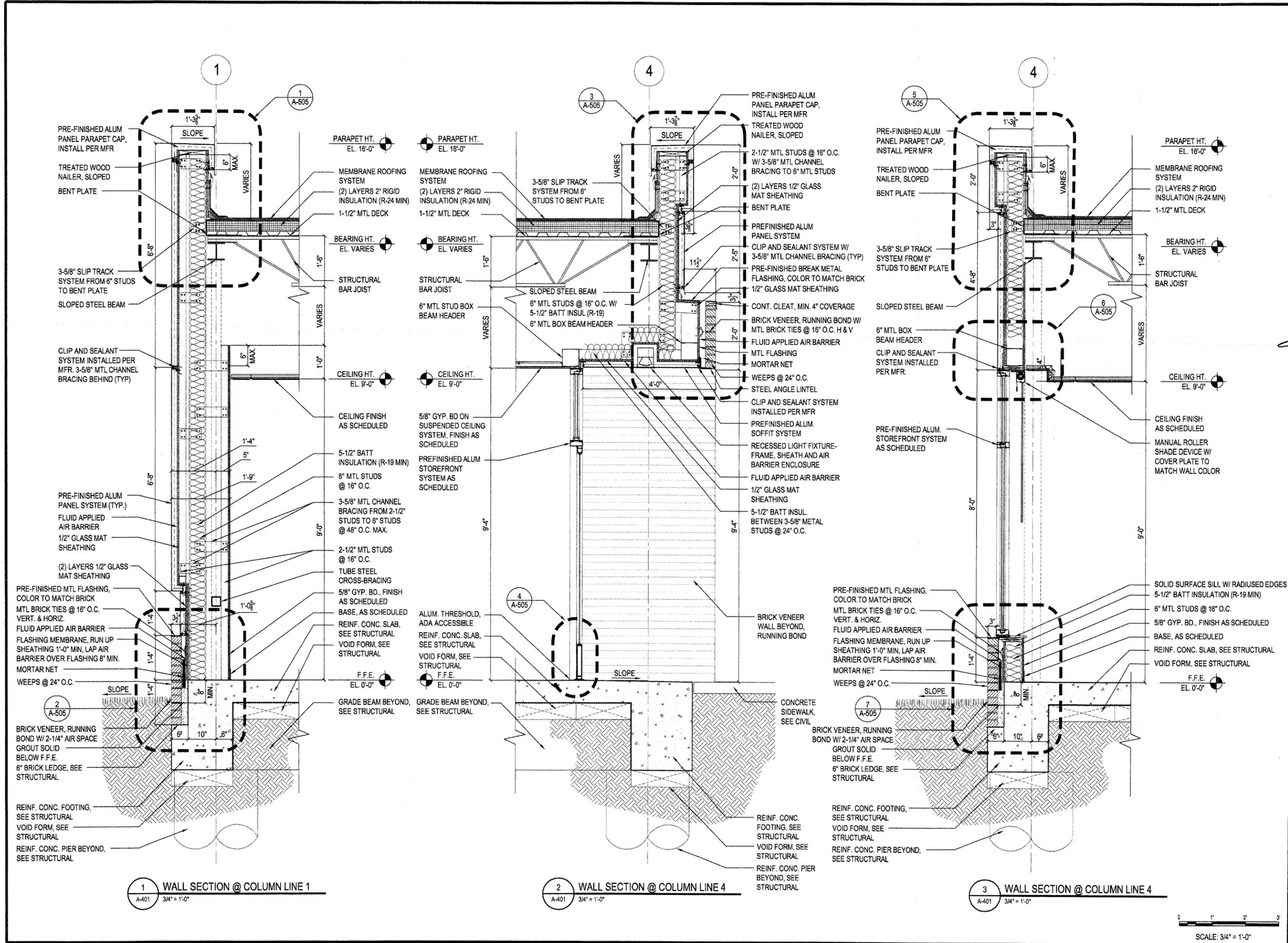
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Issue Date 14-DECEMBER-2012 Project Number 2012-102

Drawing Title  
**BUILDING SECTIONS**

Drawing Number  
**A-302**  
38 of 78

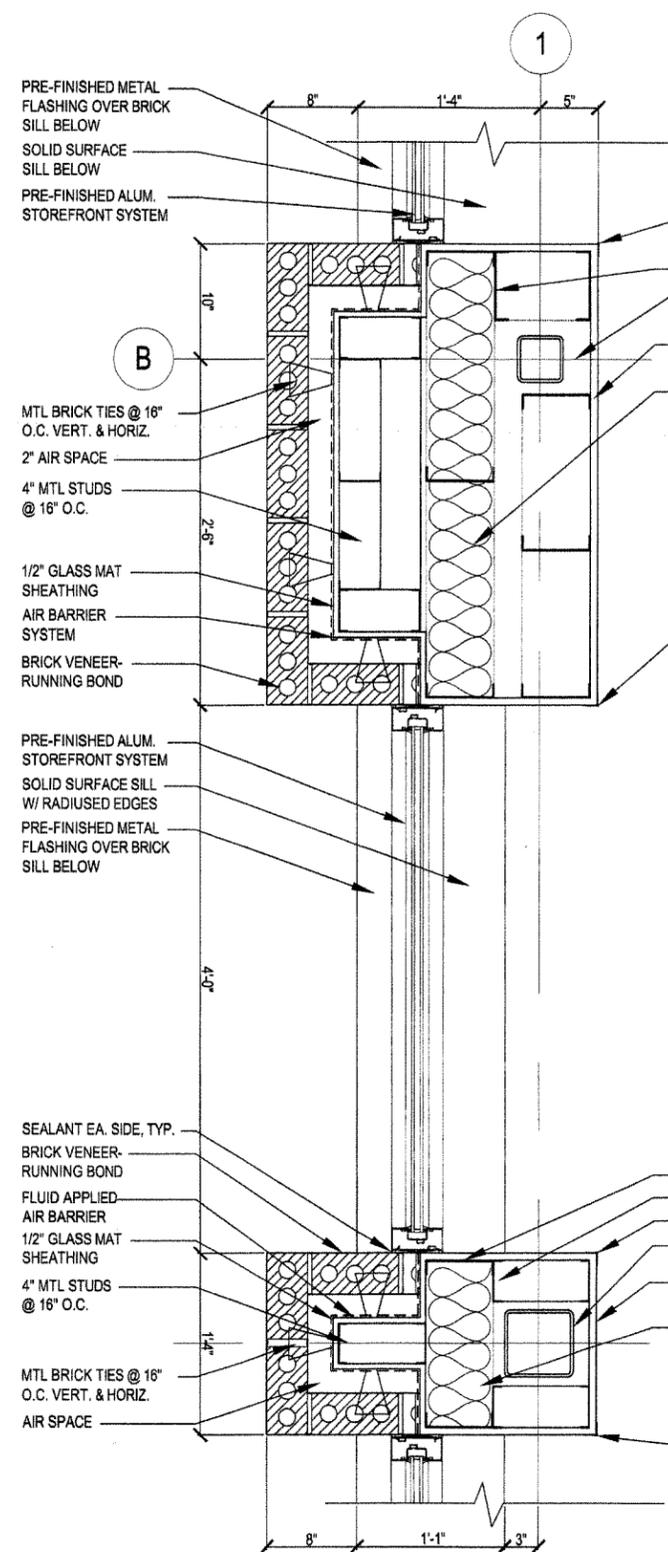


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Issue Date: 14-DECEMBER-2012 Drawing Title: WALL SECTIONS Drawing Number: A-401	Project Number: 2012-102 Date: 12/14/2012 Page: 39 of 78

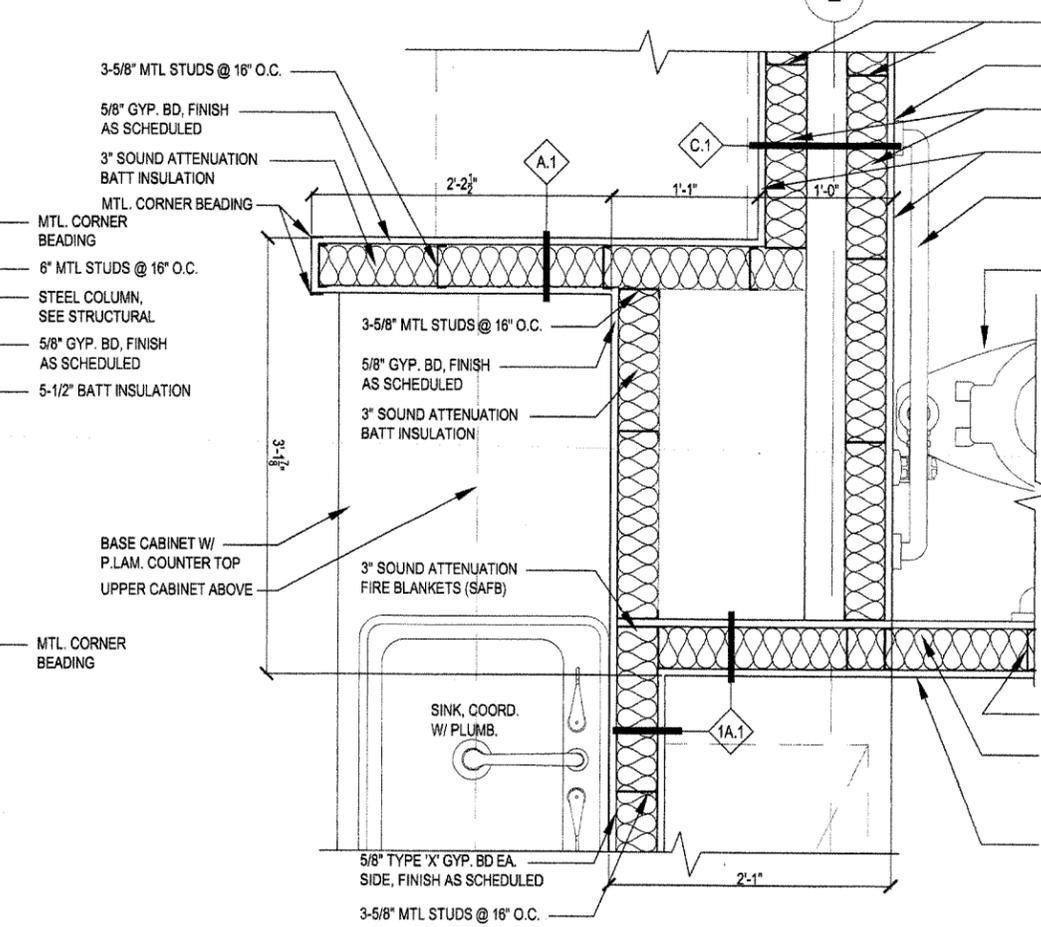




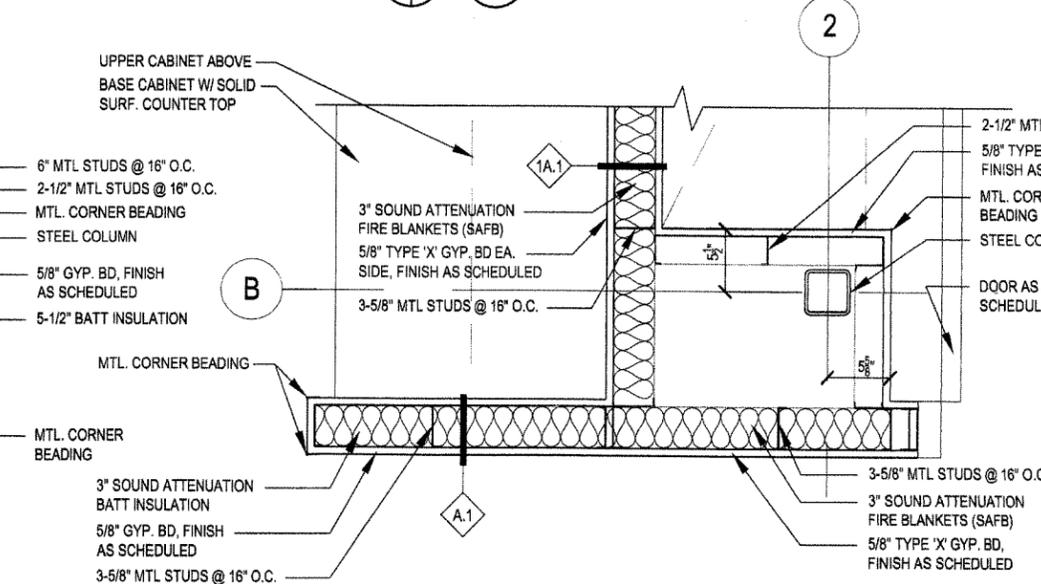




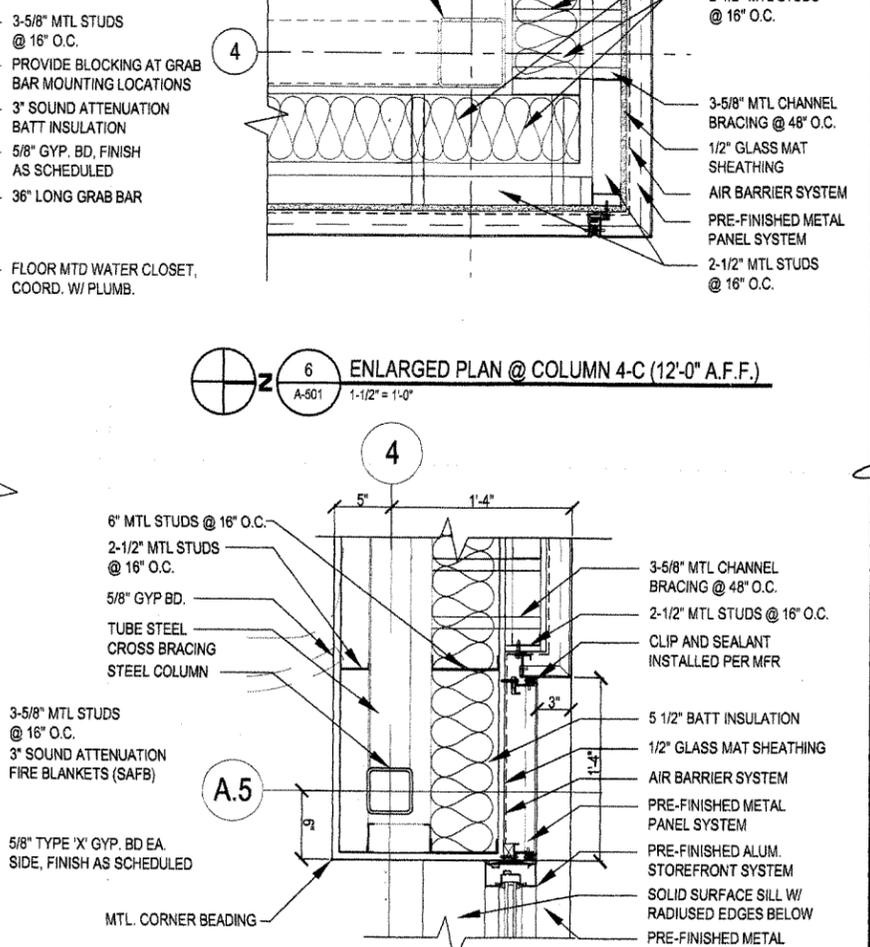
1 ENLARGED PLAN @ COLUMN 1-B  
A-501 1-1/2" = 1'-0"



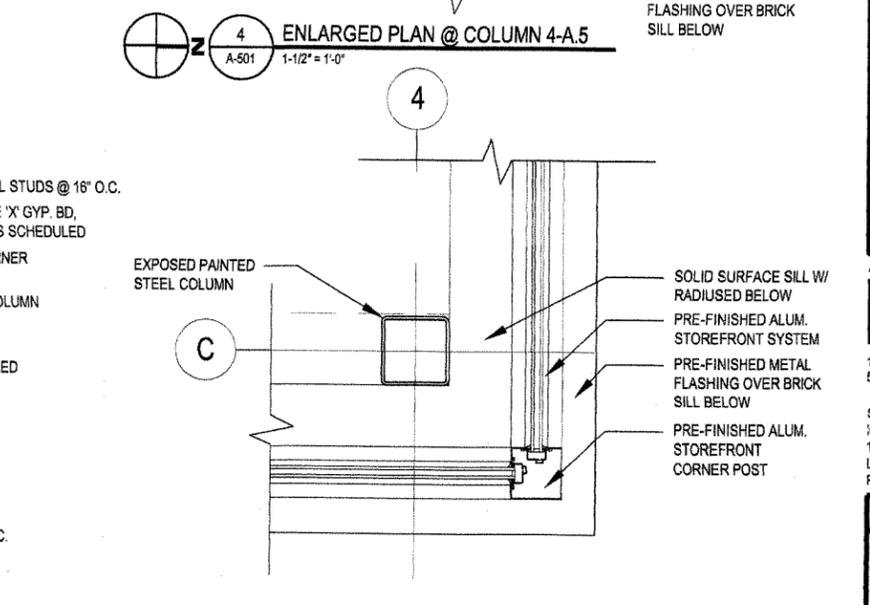
2 ENLARGED PLAN @ OPEN OFFICE (115)  
A-501 1-1/2" = 1'-0"



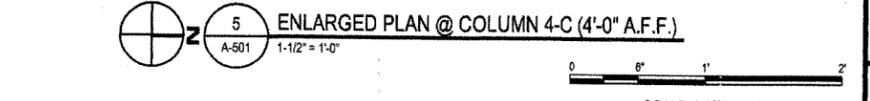
3 ENLARGED PLAN @ COLUMN 2-B  
A-501 1-1/2" = 1'-0"



6 ENLARGED PLAN @ COLUMN 4-C (12'-0" A.F.F.)  
A-501 1-1/2" = 1'-0"



4 ENLARGED PLAN @ COLUMN 4-A.5  
A-501 1-1/2" = 1'-0"



5 ENLARGED PLAN @ COLUMN 4-C (4'-0" A.F.F.)  
A-501 1-1/2" = 1'-0"

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

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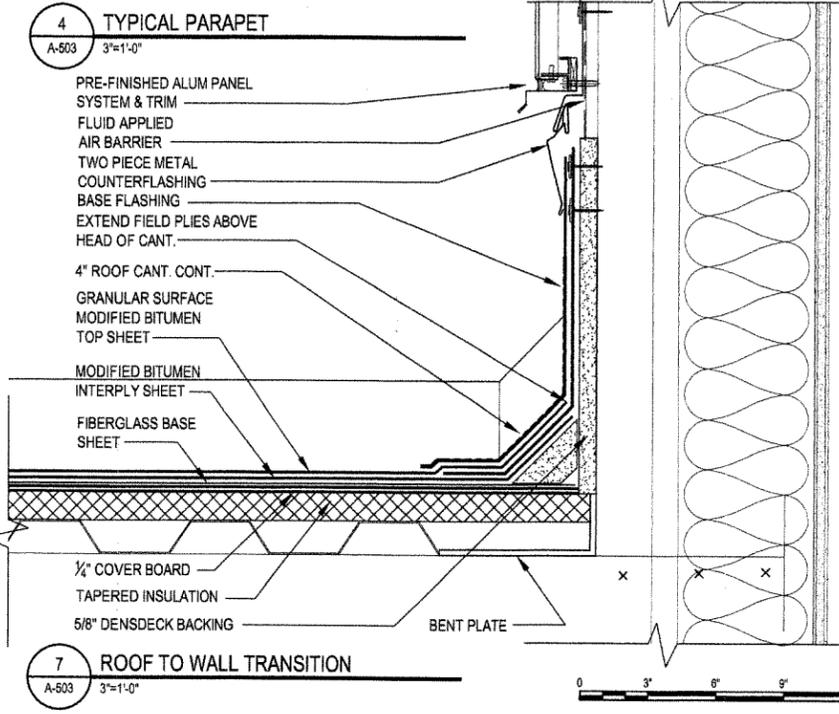
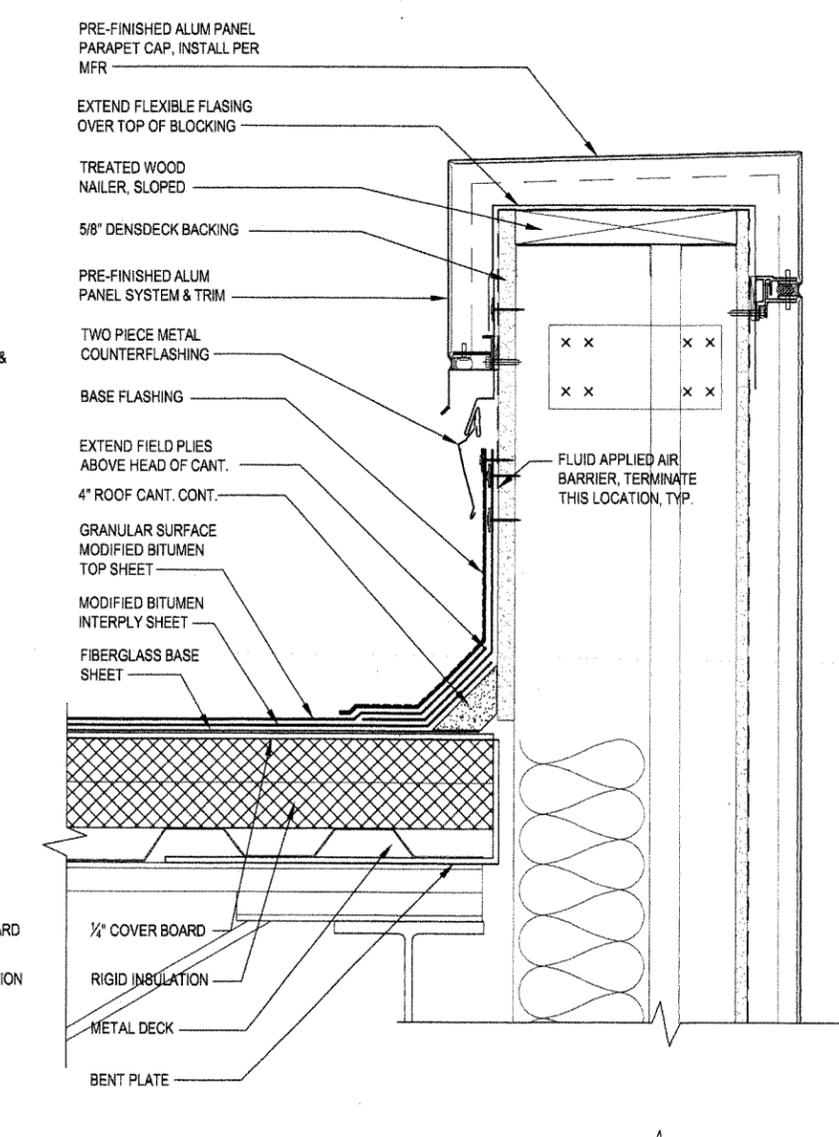
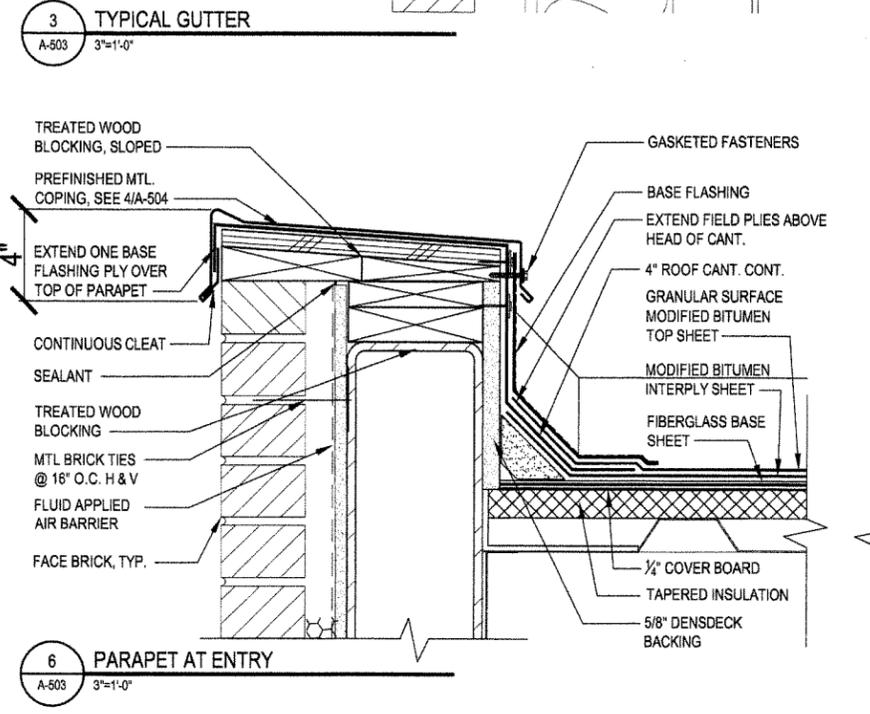
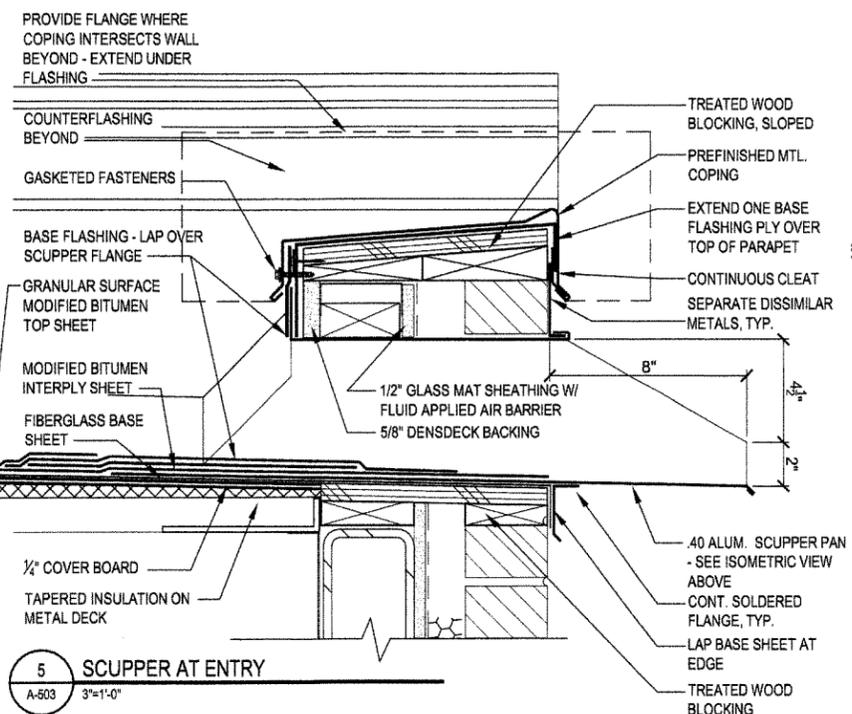
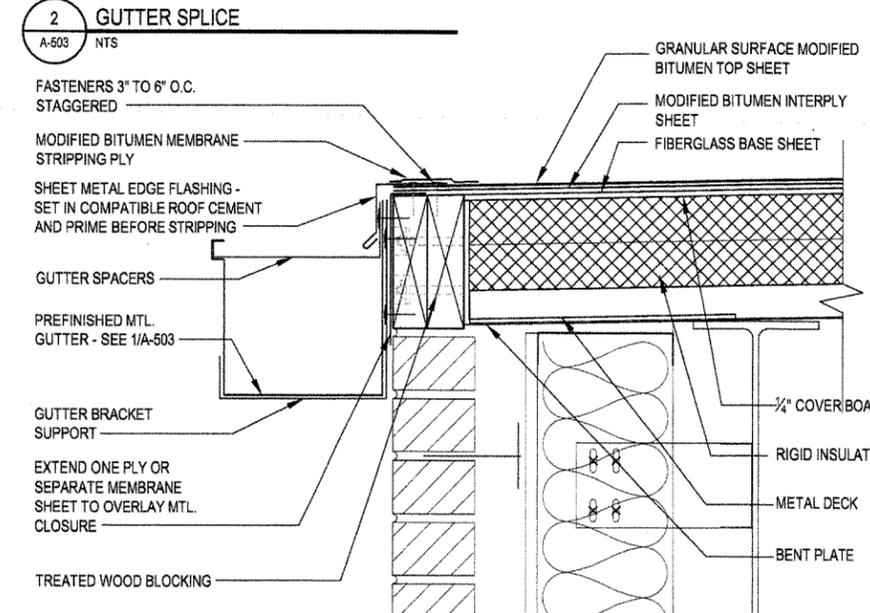
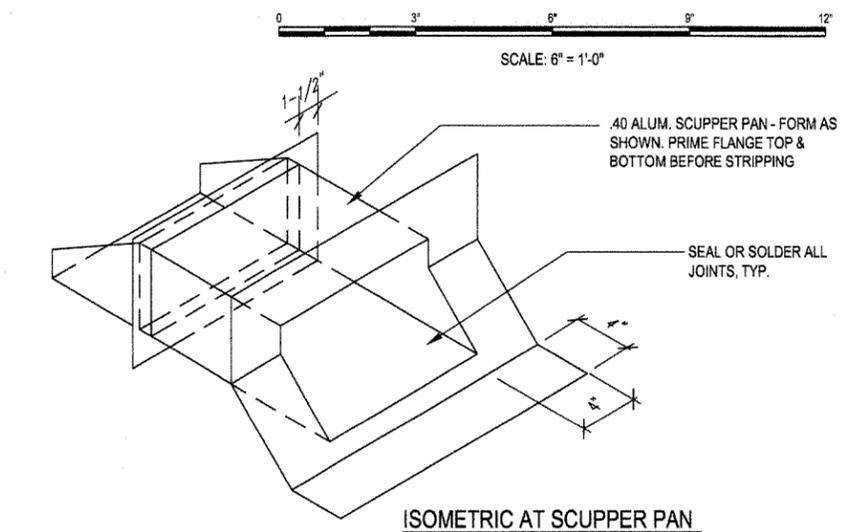
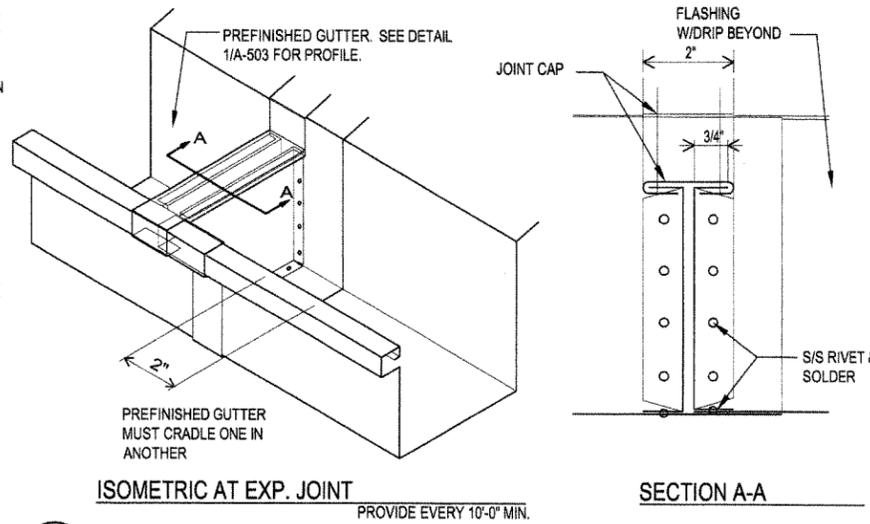
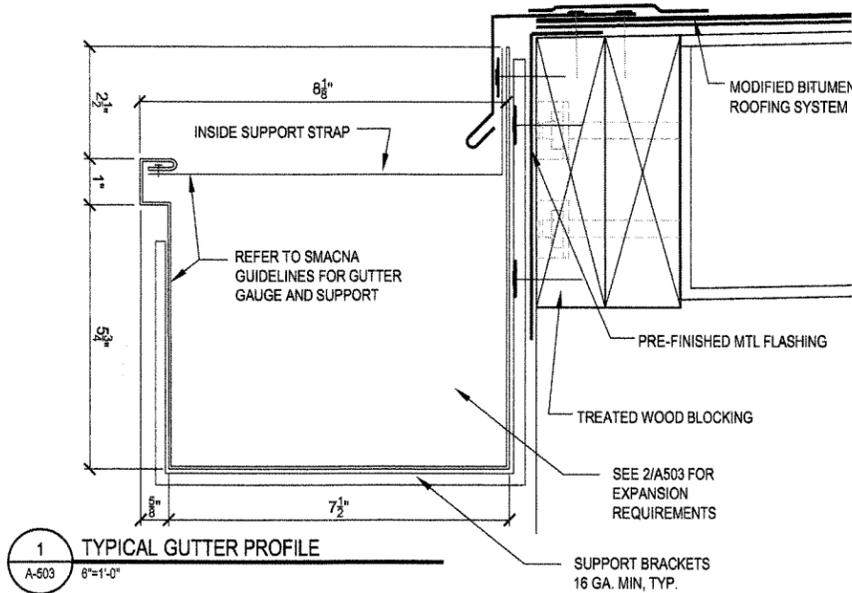
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Issue Date 14-DECEMBER-2012 Project Number 2012-102  
Drawing Title EXTERIOR DETAILS  
Drawing Number A-501  
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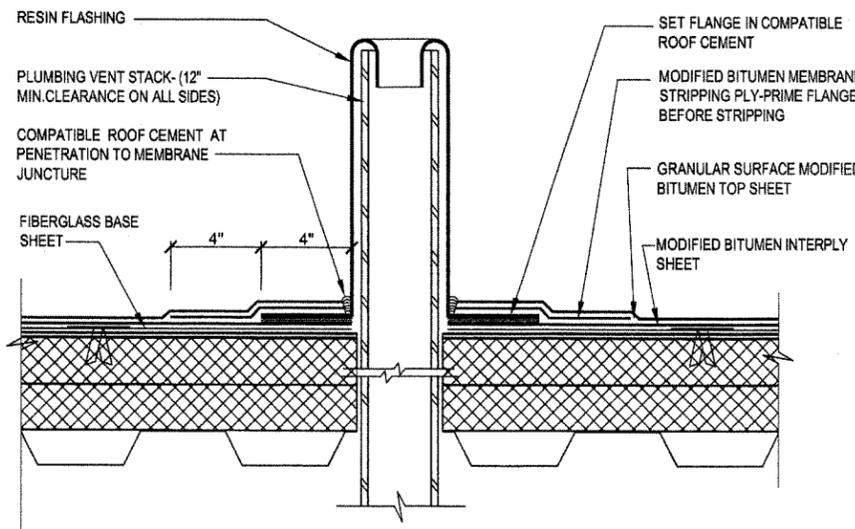
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PUBLIC TRANSIT OFFICE

ARCHITECT OF RECORD  
**CROMWELL**  
101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

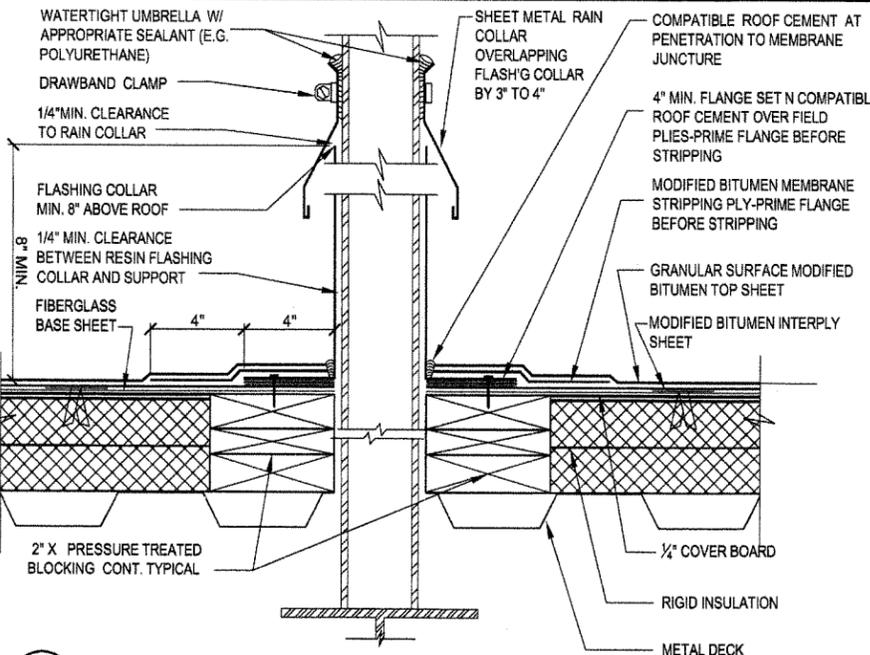
STRUCTURAL ENGINEER  
H. JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.376.7246 F: 501.376.6627

Issue Date: 14-DECEMBER-2012 Project Number: 2012-102  
Drawing Title: EXTERIOR DETAILS  
Drawing Number: A-503  
45 of 78

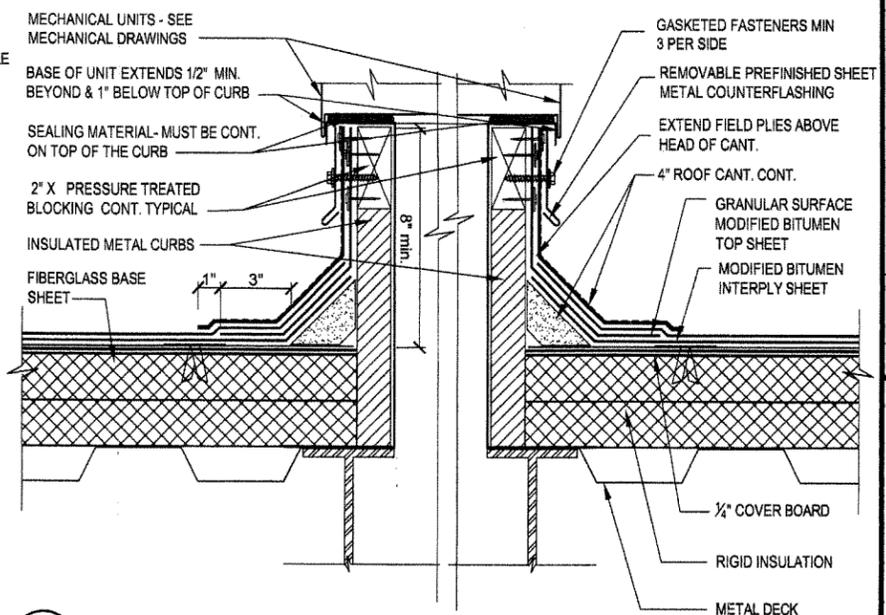
CONSTRUCTION DOCUMENTS



1 TYP. PIPE PENETRATION  
A-504 3" = 1'-0"

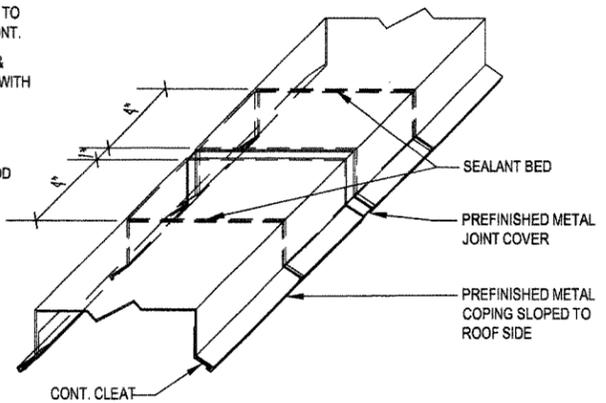


2 EQUIPMENT SCREEN SUPPORT  
A-504 3" = 1'-0"

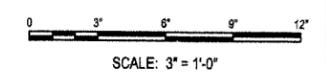


3 EQUIPMENT CURB  
A-504 3" = 1'-0"

- NOTES:
1. PREFINISHED METAL JOINT COVER TO MATCH PARAPET COPING W/ "J" CONT.
  2. PROVIDE HEMMED EDGES AT TOP & VERTICAL SURFACES IN CONTACT WITH UNDERSIDE OF COPING
  3. SET COPING IN FULL SEALANT BED
  4. ANCHOR COVER TO TREATED WOOD BLOCKING.
  5. SPACE JOINTS AT MAX. 10'-0" o.c.



4 COPING EXPANSION JOINT  
A-504 3" = 1'-0"



No.	Description

CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECTS  
C-98  
REGISTERED ARCHITECTS  
ARKANSAS

REGISTERED ARCHITECT  
ROBERT W. KEENER  
ARKANSAS

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

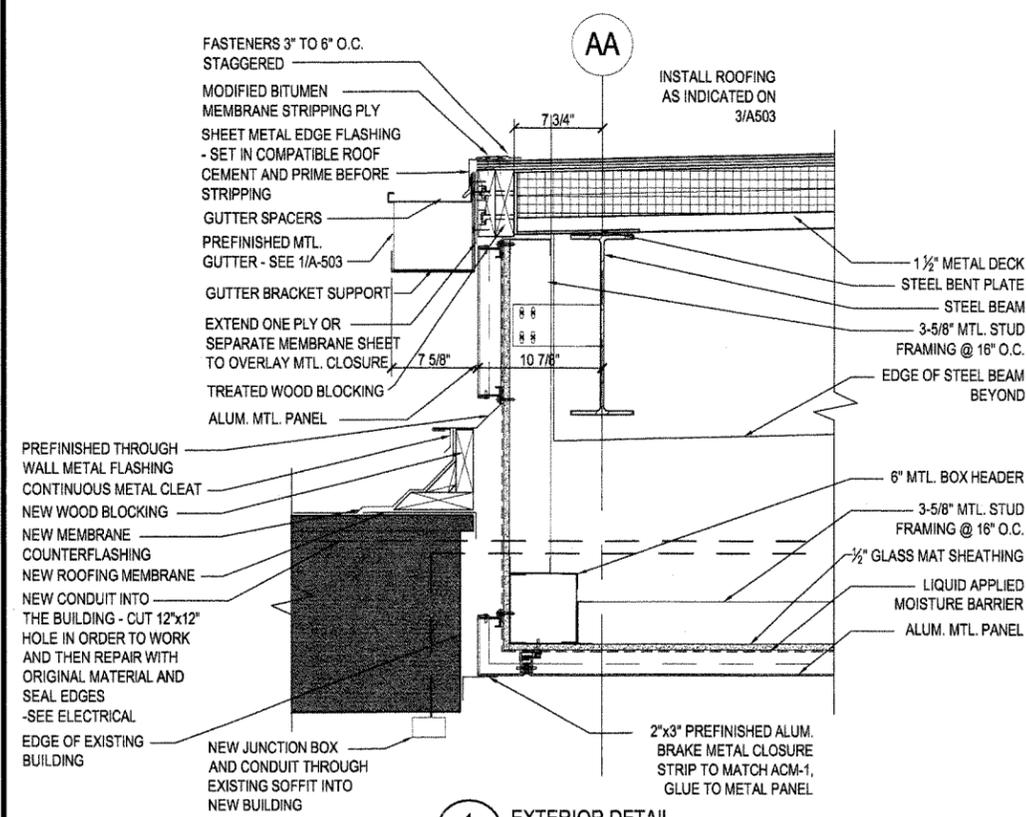
ARCHITECT OF RECORD  
**CROMWELL**  
101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

STRUCTURAL ENGINEER  
H. JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.376.7246 F: 501.376.6627

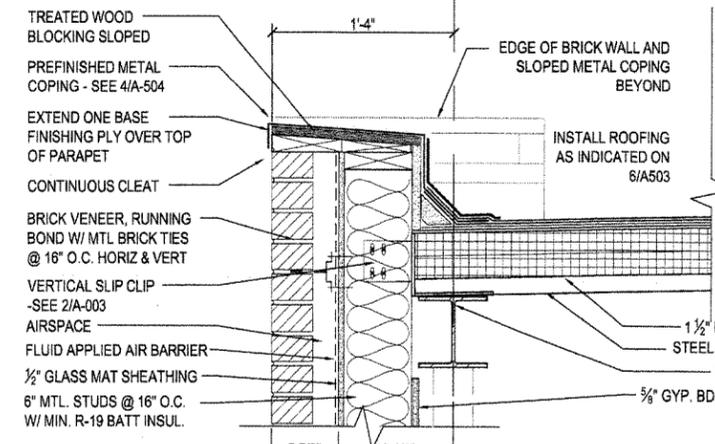
Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>EXTERIOR DETAILS</b>	
Drawing Number <b>A-504</b> 46 of 78	



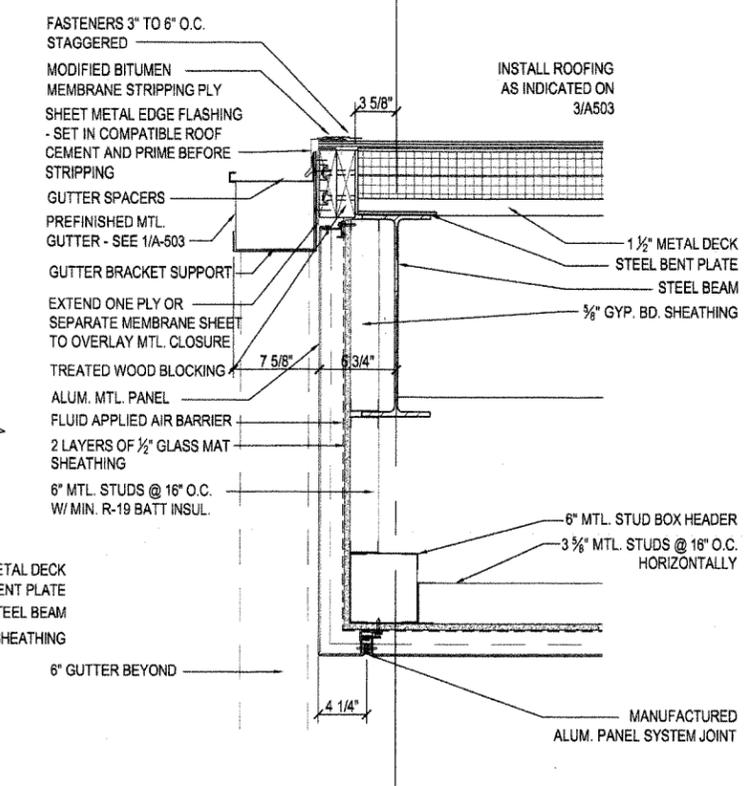




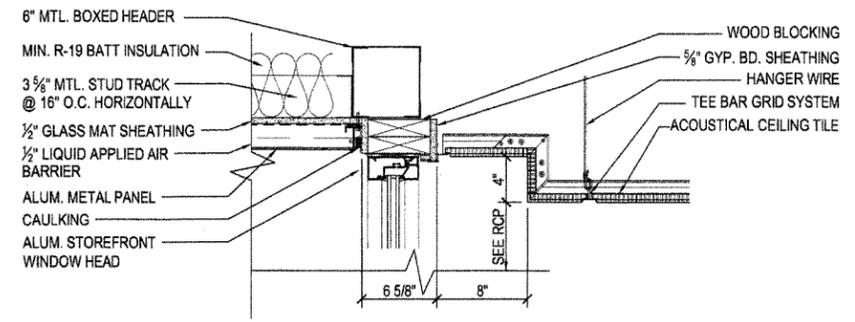
1 EXTERIOR DETAIL  
A-507 1 1/2"=1'-0"



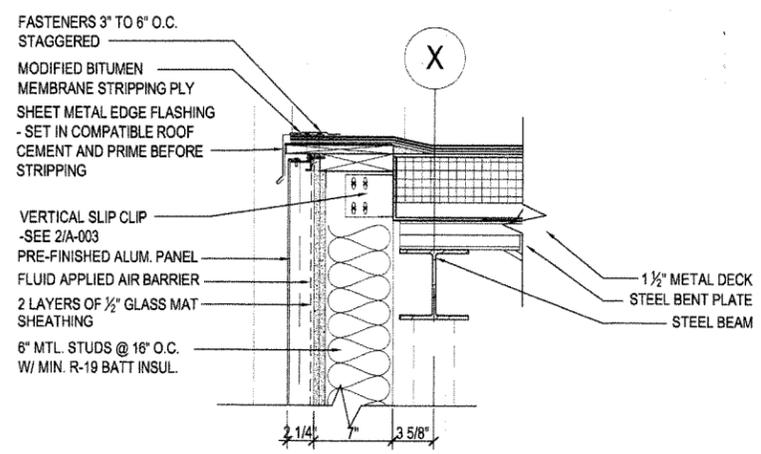
3 EXTERIOR DETAIL  
A-507 1 1/2"=1'-0"



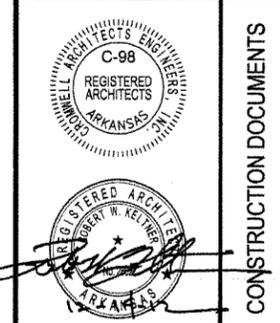
5 EXTERIOR DETAIL  
A-507 1 1/2"=1'-0"



2 EXTERIOR DETAIL  
A-507 1 1/2"=1'-0"



4 EXTERIOR DETAIL  
A-507 1 1/2"=1'-0"



CONSTRUCTION DOCUMENTS

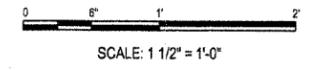
ARKANSAS STATE HIGHWAY AND  
TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE

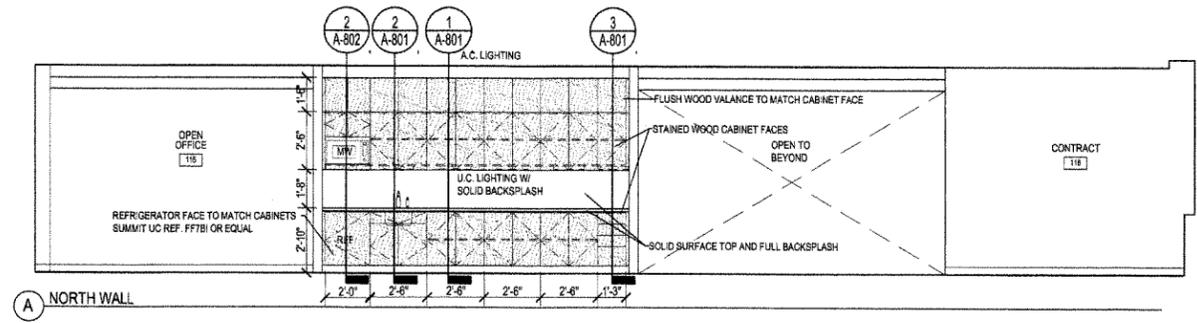


ARCHITECT OF RECORD  
**CROMWELL**  
101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

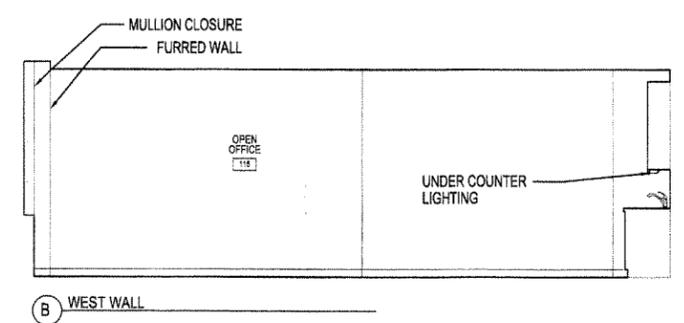
STRUCTURAL ENGINEER  
H.JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.376.7246 F: 501.376.6627

Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	EXTERIOR DETAILS		
Drawing Number	A-507		
49 of 78			

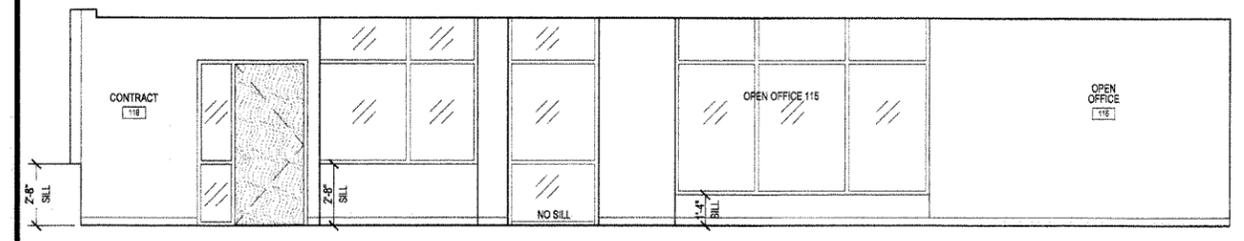




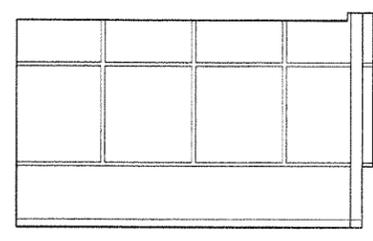
**1 OPEN OFFICE 115 ELEVATIONS**  
A-701 1/4" = 1'-0"



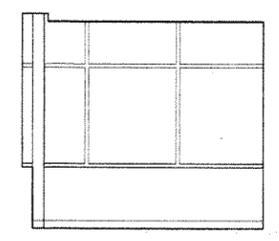
**B WEST WALL**



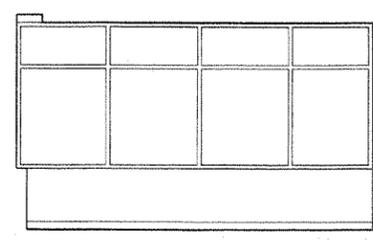
**2 OPEN OFFICE 115 & CONTRACT 118 SOUTH ELEVATION**  
A-701 1/4" = 1'-0"



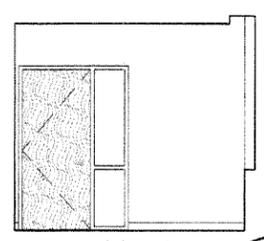
**A EAST WALL**



**B SOUTH WALL**

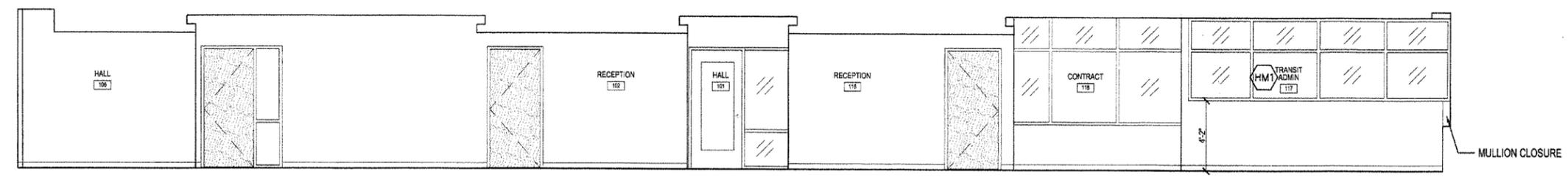


**C WEST WALL**

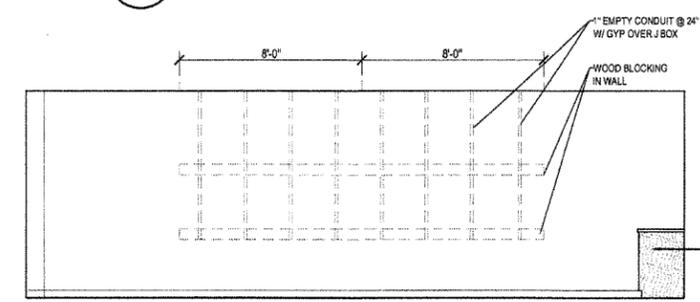


**D NORTH WALL**

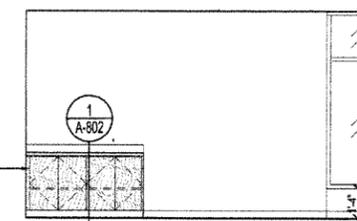
**3 OPEN OFFICE 115 ELEVATIONS**  
A-701 1/4" = 1'-0"



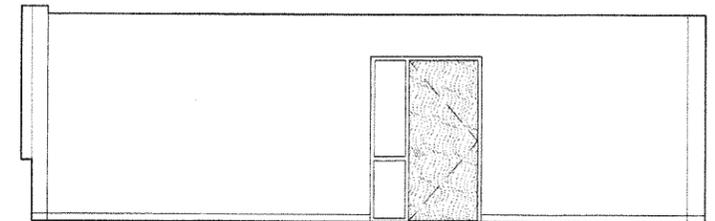
**4 OPEN OFFICE 115, RECEPTION 116 & 102 & HALL 106 EAST ELEVATION**  
A-701 1/4" = 1'-0"



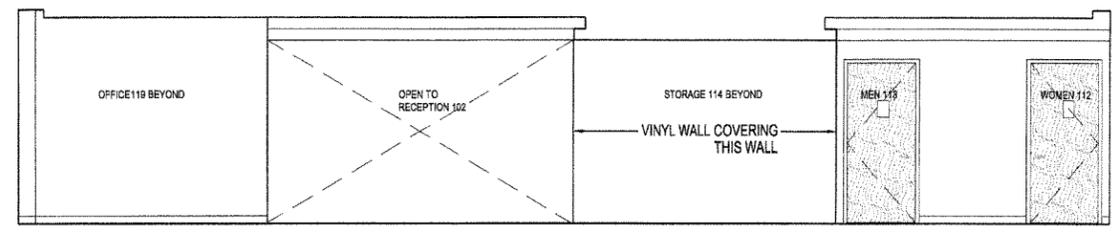
**5 TRAINING/CONFERENCE 107 ELEVATIONS**  
A-701 1/4" = 1'-0"



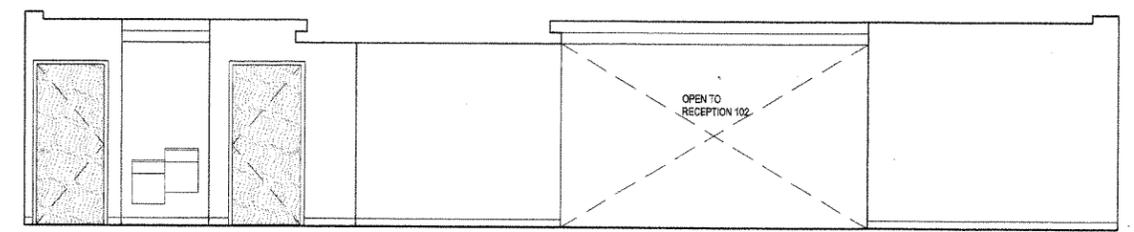
**B NORTH WALL**



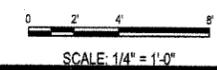
**C EAST WALL**



**6 HALL 101 & 111**  
A-701 1/4" = 1'-0"



**B NORTH WALL**



No.	Date	Description

**CONSTRUCTION DOCUMENTS**

REGISTERED ARCHITECTS  
C-98  
CROMWELL ARCHITECTS  
ARKANSAS

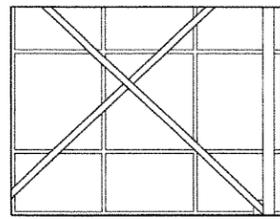
REGISTERED ARCHITECT  
ROBERT W. KELTNER  
2014

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE**

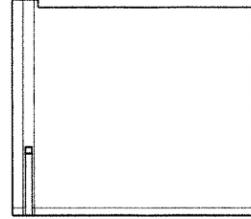
ARCHITECT OF RECORD  
**CROMWELL**  
101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

STRUCTURAL ENGINEER  
H. JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.376.7246 F: 501.376.6627

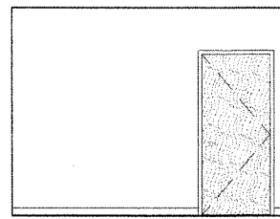
Issue Date: 14-DECEMBER-2012 Project Number: 2012-102  
Drawing Title: **INTERIOR ELEVATIONS**  
Drawing Number: **A-701**  
50 of 76



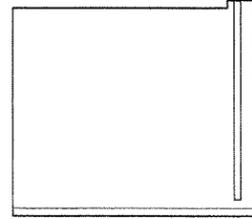
A EAST WALL



B SOUTH WALL

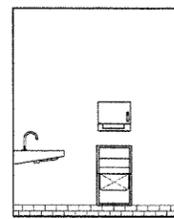


C WEST WALL

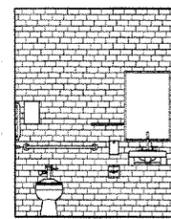


D NORTH WALL

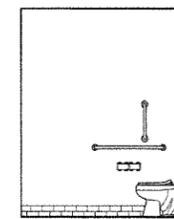
1 OFFICE 103  
A-702 1/4" = 1'-0"



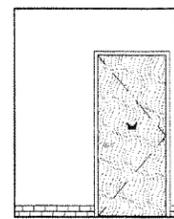
A WEST WALL



B SOUTH WALL

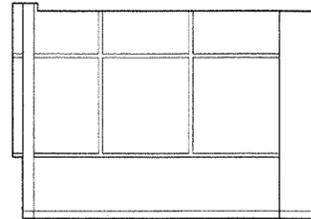


C EAST WALL

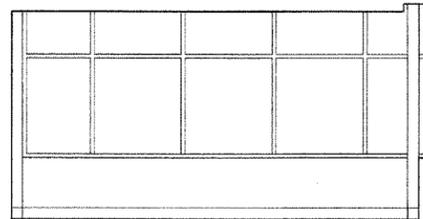


D NORTH WALL

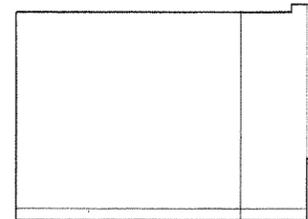
2 BATHROOM 113 ELEVATIONS, 112 SIMILAR  
A-702 1/4" = 1'-0" SEE 2/A-903 FOR MOUNTING HEIGHTS



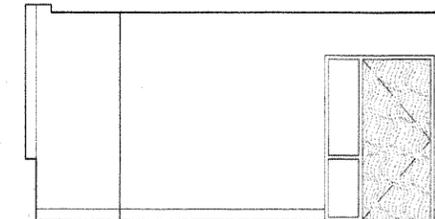
A EAST WALL



B NORTH WALL



C WEST WALL



D SOUTH WALL

1 OFFICE 105 ELEVATIONS  
A-702 1/4" = 1'-0"

No.	Date	Description



CONSTRUCTION DOCUMENTS

ARKANSAS STATE HIGHWAY AND  
TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE



ARCHITECT OF RECORD



101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

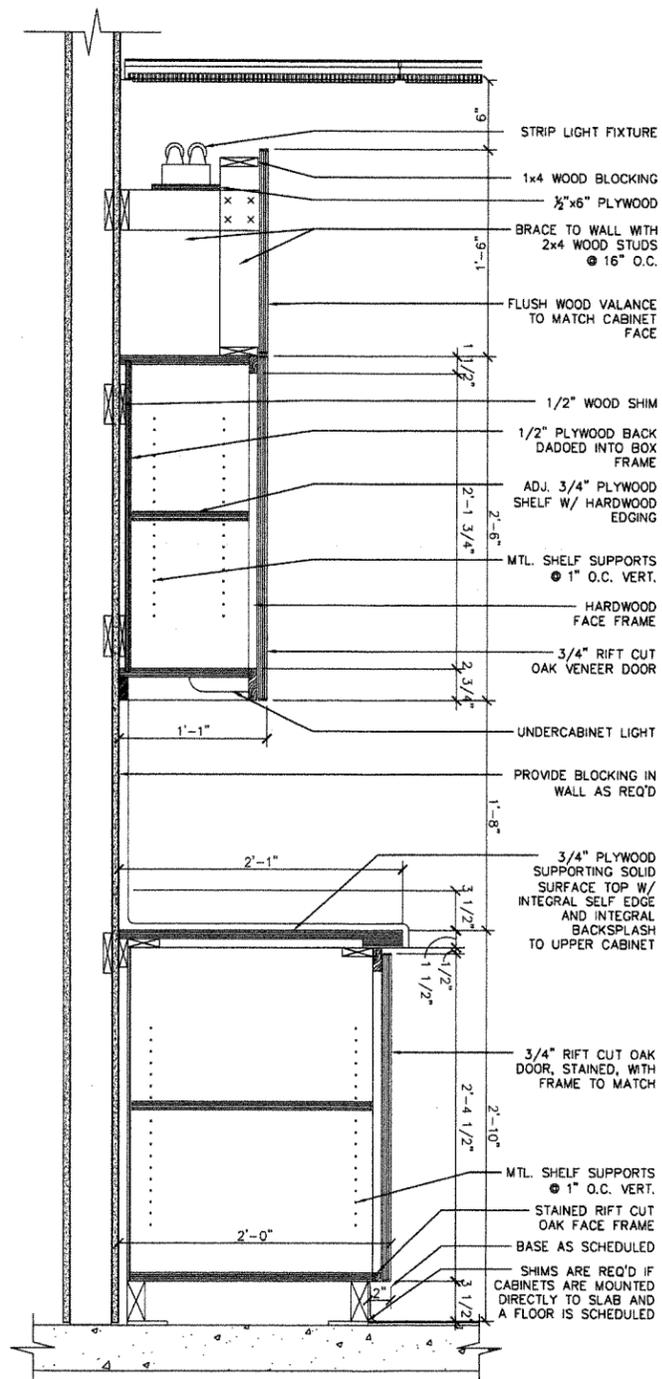
STRUCTURAL ENGINEER  
H.JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.376.7246 F: 501.376.6627

Issue Date 14-DECEMBER-2012 Project Number 2012-102

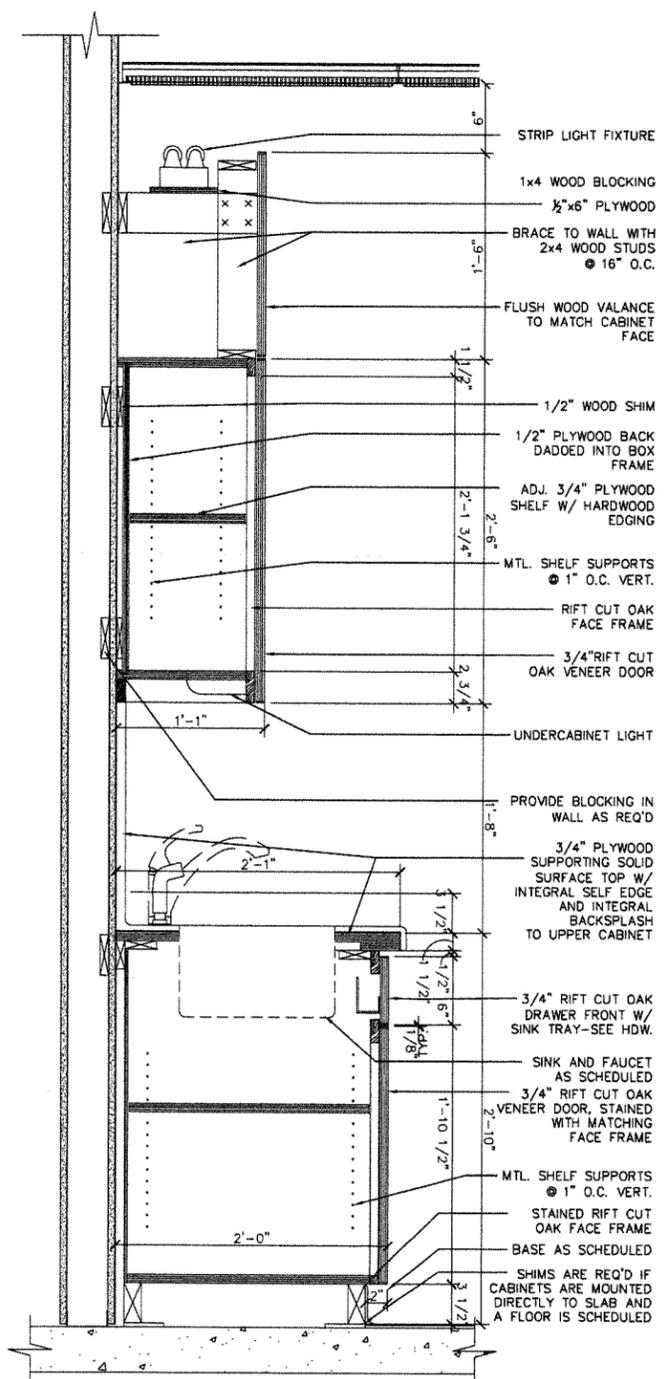
Drawing Title  
**INTERIOR  
ELEVATIONS**

Drawing Number  
**A-702**  
51 of 78

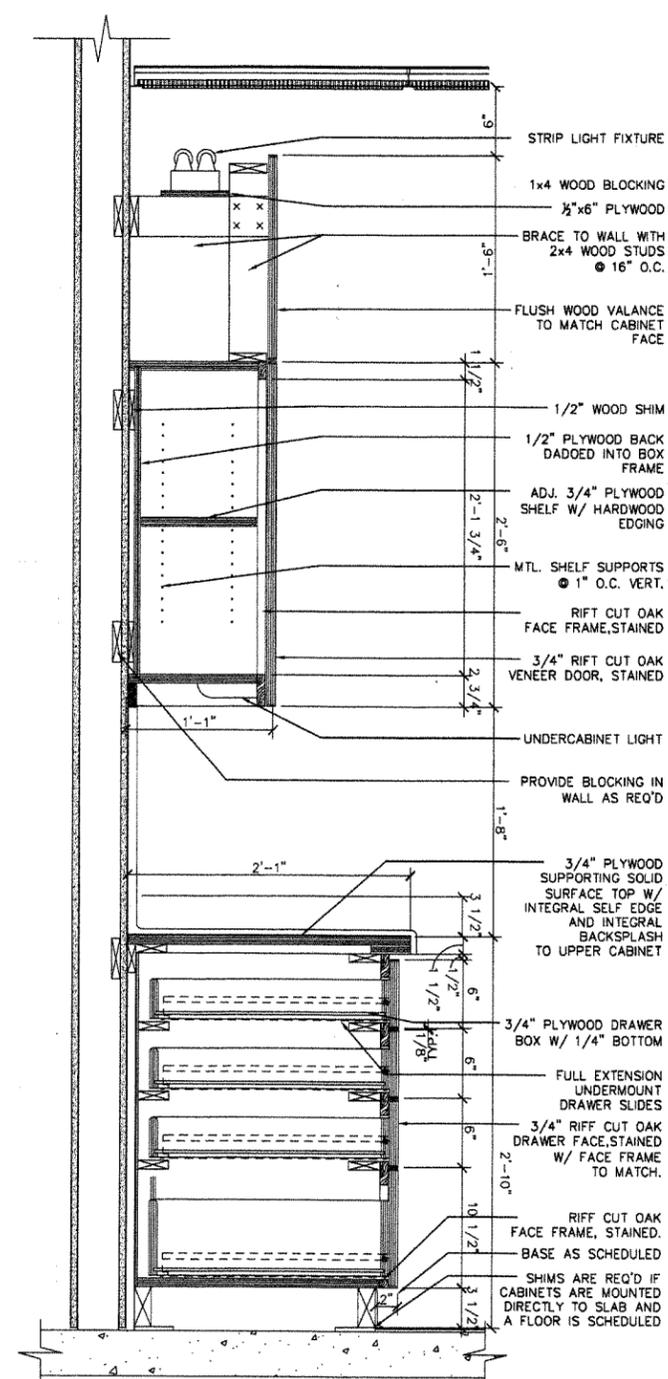
0 2' 4' 8'  
SCALE: 1/4" = 1'-0"



1 SECTION THRU OPEN OFFICE MILLWORK  
1-1/2" = 1'-0"

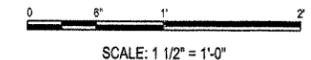


2 SECTION THRU OPEN OFFICE MILLWORK  
1-1/2" = 1'-0"



3 SECTION THRU OPEN OFFICE MILLWORK  
1-1/2" = 1'-0"

MILWORK HARDWARE SCHEDULE			
ITEM	MFR.	TYPE	FINISH
HINGE 120°	BLUM	BH71T550	NICKEL
DWR SLIDES	BLUM	562H	ZINC
SHELF STD.	K & V	255	ZINC
SHELF CLIP	K & V	256	ZINC
PULLS	HAFELE	124.02.910	ANODIZED
SINK TRAY	K & V	PSF145H-2	ZINC



No.	Date	Description

REGISTERED ARCHITECTS  
C-98  
CROMWELL ARCHITECTS  
ARKANSAS

REGISTERED ARCHITECT  
ROBERT W. KELLER  
ARKANSAS

CONSTRUCTION DOCUMENTS

ARKANSAS STATE HIGHWAY AND  
TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE

ARCHITECT OF RECORD  
CROMWELL

101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

STRUCTURAL ENGINEER  
H. JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.376.7246 F: 501.376.6627

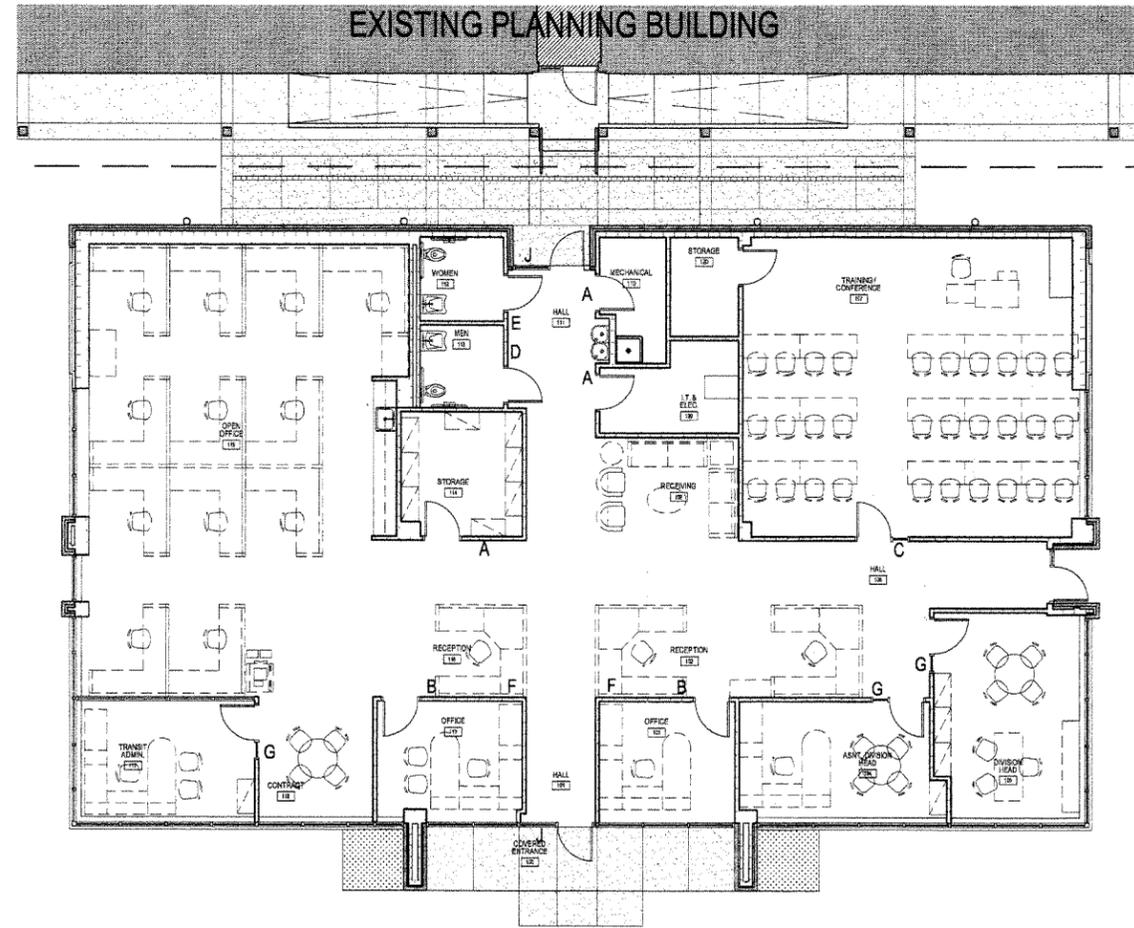
Issue Date 14-DECEMBER-2012 Project Number 2012-102

Drawing Title  
**MILWORK  
DETAILS**

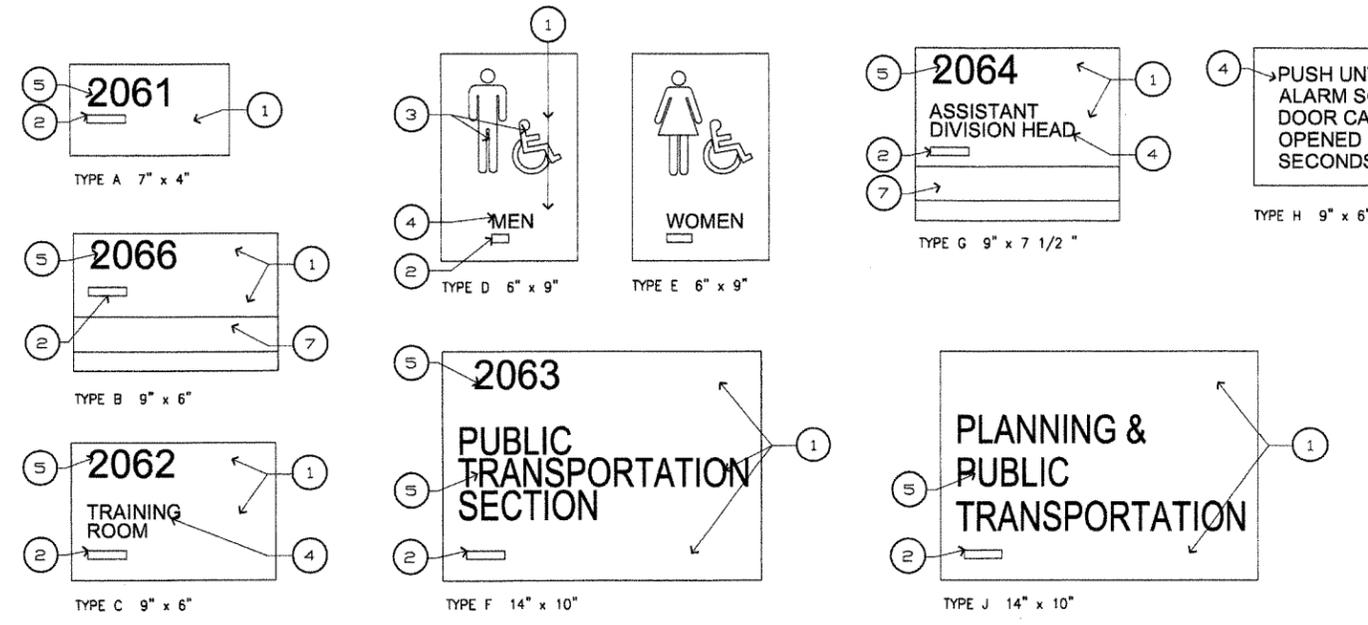
Drawing Number  
**A-801**  
52 of 78



SIGNAGE SCHEDULE			
RM. NO.	ROOM NAME	SIGN TYPE	TEXT
101	HALL	---	---
102	RECEPTION	F	PLANNING DIVISION
103	OFFICE	B	OFFICE
104	ASST. DIVISION HEAD	G	ASSISTANT DIVISION HEAD
105	DIVISION HEAD	G	DIVISION HEAD
106	HALL	---	---
107	TRAINING	C	TRAINING ROOM
108	RECEIVING	---	---
109	IT & ELEC.	A	---
110	MECHANICAL	A	---
111	HALL	A	---
112	WOMEN	E	WOMEN
113	MEN	D	MEN
114	STORAGE	A	---
115	OPEN OFFICE	---	---
116	RECEPTION	F	PUBLIC TRANSPORTATION SECTION
117	TRANSIT ADMIN.	G	TRANSIT ADMINISTRATOR
118	CONTRACT	---	---
119	OFFICE	B	OFFICE



1 SIGNAGE PLAN  
A-803 NOT TO SCALE



2 SIGNAGE TYPES & NOTES  
A-803 3" = 1'-0"

- KEYNOTES:
- 1/8" CAST ACRYLIC PLAQUE WITH P-95 MATTE FINISH, SUBSURFACE PAINTED, COLOR AS SELECTED BY ARCHITECT.
  - GRADE 2 BRAILLE EITHER RAISED ABOVE THE SURFACE OF THE PLAQUE OR ENGRAVED INTO THE ACRYLIC FACE. SURFACE APPLIED TAPES ARE NOT ACCEPTABLE.
  - 4 1/2" TALL PICTOGRAM RAISED 1/32".
  - 5/8" TALL LETTERING RAISED 1/32".
  - 1 1/4" TALL LETTERING RAISED 1/32".
  - 1/8" x 1/32" RAISED ACCENT STRIP.
  - CLEAR WINDOW FOR NAME INSERT

GENERAL SIGN NOTES:

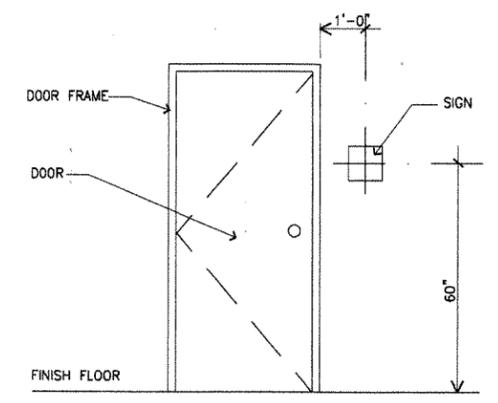
ALL DOORS SHALL RECEIVE SIGN TYPE "A" U.O.N. OR DESIGNATED OTHERWISE BELOW.

ALL TOILET DOORS SHALL RECEIVE SIGN TYPE "D" OR "E". COORDINATE WITH PLAN.

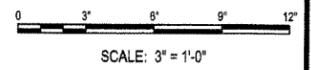
MOUNT ALL SIGNS AS INDICATED IN DETAIL 3/A-803 U.O.N. NOTIFY ARCHITECT OF ANY CONFLICTS.

SEE SIGNAGE PLAN FOR LOCATIONS OF SIGN TYPES

COORDINATE EXACT SIGN TEXT AND COLOR WITH ARCHITECT PRIOR TO FABRICATION.



3 TYPICAL SIGN PLACEMENT  
A-803 NOT TO SCALE



CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECTS  
C-98  
REGISTERED ARCHITECTS  
ARIZONA

REGISTERED ARCHITECT  
ROBERT W. KELTNER  
ARIZONA

ARIZONA STATE HIGHWAY AND  
TRANSPORTATION DEPARTMENT  
PUBLIC TRANSIT OFFICE

ARCHITECT OF RECORD  
CROMWELL

101 south spring street little rock, ar 72201  
501.372.2900 cromwell.com

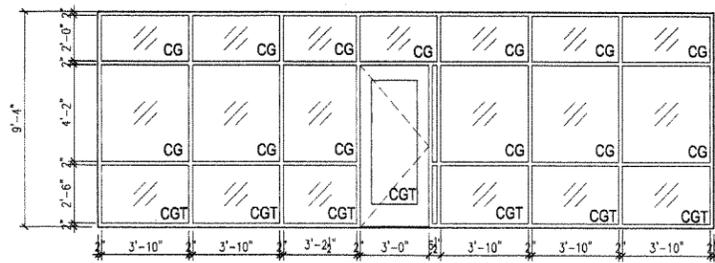
STRUCTURAL ENGINEER  
H. JAMES ENGSTROM & ASSOCIATES, INC.  
1100 WEST SECOND ST.  
LITTLE ROCK, AR 72201  
P: 501.376.7246 F: 501.376.6627

Issue Date: 14-DECEMBER-2012 Project Number: 2012-102

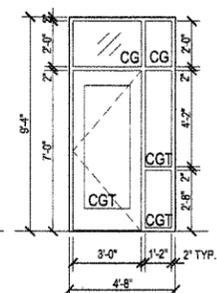
Drawing Title: SIGNAGE PLAN

Drawing Number: A-803

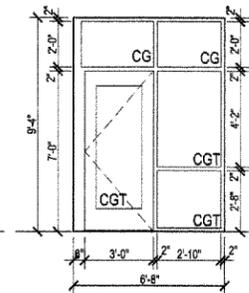
54 of 78



**S1 EAST ENTRANCE PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**



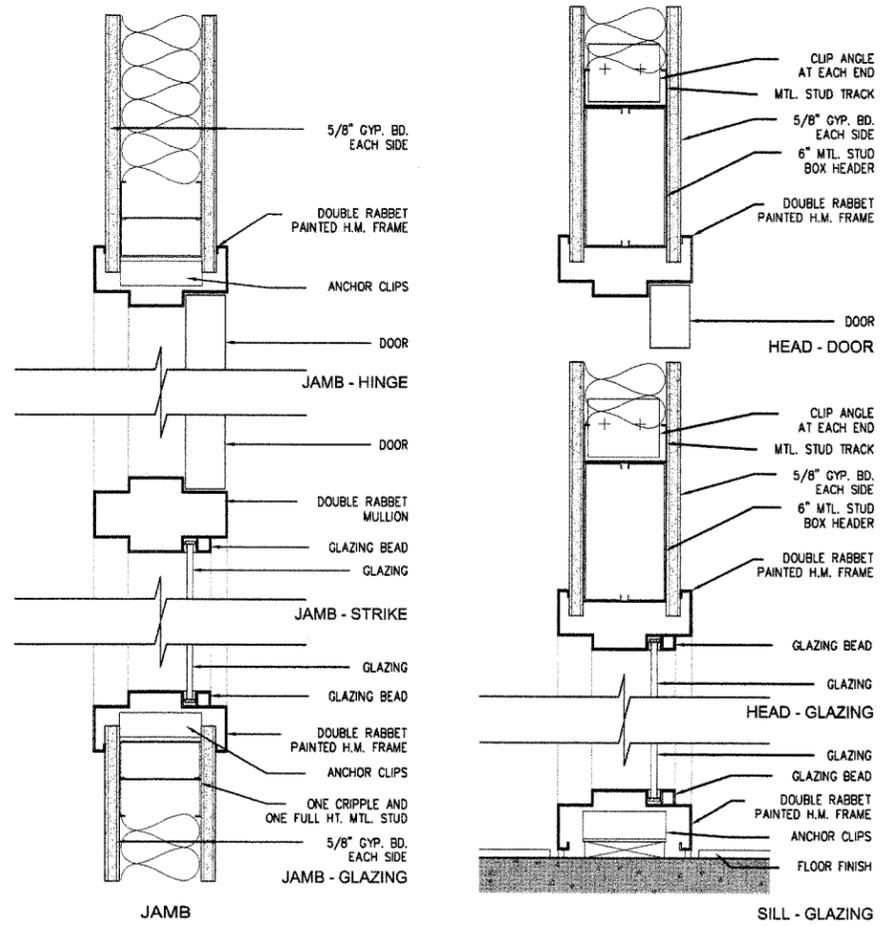
**S2 NORTH ENTRANCE PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**



**S3 WEST ENTRANCE PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**

**NOTES:**  
 1. EXTERIOR GLAZING - PPG SOLARBAN 80 (2) CLEAR & CLEAR  
 2. GLASS TEMPERED WHEREVER REQUIRED BY CODE

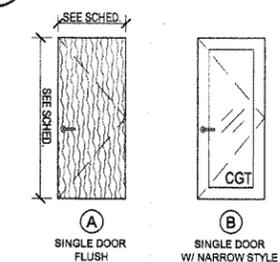
**ABBREVIATIONS:**  
 CG - CLEAR GLASS  
 CGT - CLEAR GLASS TEMPERED



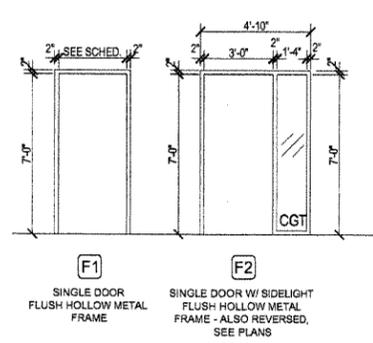
### DOOR AND FRAME SCHEDULE

MARK	TYPE	DOOR			MATL	FINISH	FRAME			FIRE RATING	SET NO.	NOTES
		WD	HT	THK			TYPE	MATL	DETAIL HD			
000	B	3'-0"	7'-0"	1 3/4"	ALG	P	--	AL			1	KEY CARD & POWER ASSIST OPENER
101	B	3'-0"	7'-0"	1 3/4"	ALG	P	--	AL			1	KEY CARD & POWER ASSIST OPENER
103	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	3	--
104	A	3'-0"	7'-0"	1 3/4"	WD	S	F-2	HM	5/A901	5/A901	3	--
105	A	3'-0"	7'-0"	1 3/4"	WD	S	F-2	HM	5/A901	5/A901	3	--
106	B	3'-0"	7'-0"	1 3/4"	ALG	P	--	AL			2	KEY CARD
107	A	3'-0"	7'-0"	1 3/4"	WD	S	F-2	HM	5/A901	5/A901	4	--
109	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	5	--
110	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	5	--
111	B	3'-0"	7'-0"	1 3/4"	ALG	P	--	AL			1	KEY CARD & POWER ASSIST OPENER
112	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	7	--
113	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	7	--
114	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	6	45 MIN.
117	A	3'-0"	7'-0"	1 3/4"	WD	S	F-2	HM	5/A901	5/A901	3	--
119	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	3	--
120	A	3'-0"	7'-0"	1 3/4"	WD	S	F-1	HM	4/A901	4/A901	5	--

**1 DOOR SCHEDULE**  
A-901



**2 DOOR ELEVATIONS**  
A-901 1/4" = 1'-0"



**3 FRAME ELEVATIONS**  
A-901 1/4" = 1'-0"

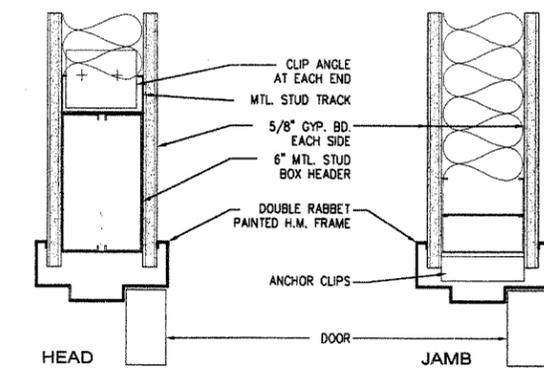
### DOOR LEGEND

**ABBREVIATIONS**

EXST	EXISTING DOOR TO REMAIN
AL	ALUMINUM
ALG	ALUMINUM AND GLASS STOREFRONT DOOR
CGT	CLEAR GLASS TEMPERED
HM	HOLLOW METAL
SC	SOLID CORE WOOD
WD	HOLLOW CORE WOOD

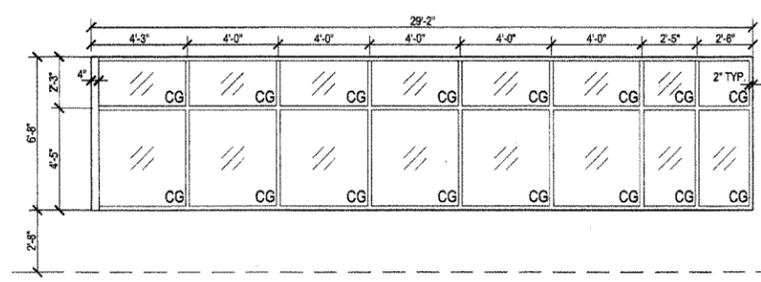
**FINISHES**

S	STAINED - COLOR TBD
P	PAINT - COLOR TBD
CA	CLEAR ANNOZIDED



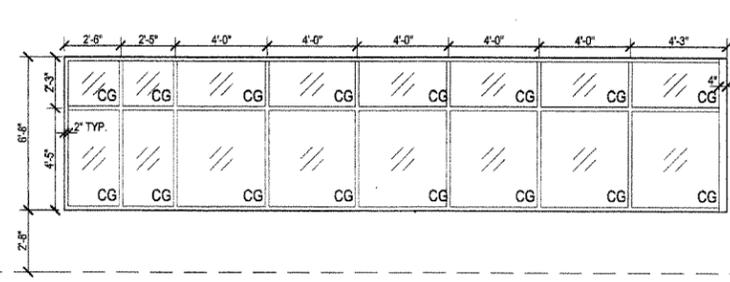
**4 TYPICAL WOOD DOOR DETAILS**  
A-901 3" = 1'-0"

**6 EXTERIOR STOREFRONT ENTRANCE ELEVATIONS**  
A-901 1/4" = 1'-0"

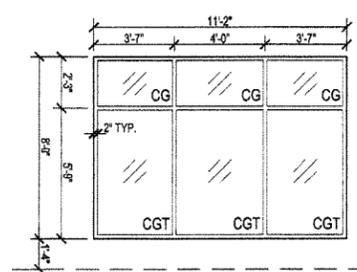


**S4 EAST ELEVATION PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**

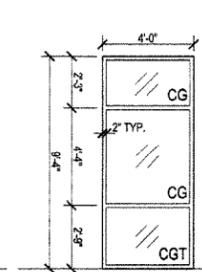
**5 WOOD DOOR WITH SIDELIGHT DETAILS**  
A-901 3" = 1'-0"



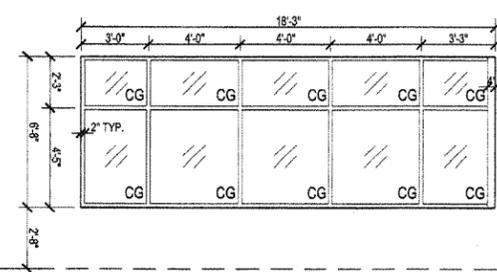
**S5 EAST ELEVATION PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**



**S6 NORTH AND SOUTH ELEVATION PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**

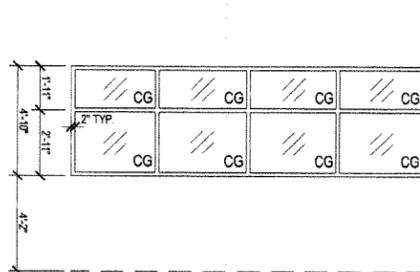


**S7 SOUTH ELEVATION PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**



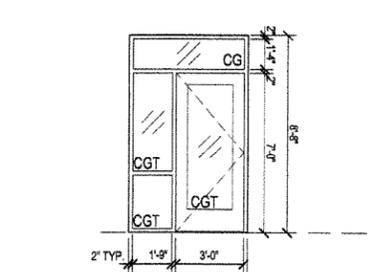
**S8 NORTH AND SOUTH ELEVATION PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**

**7 STOREFRONT GLAZING ELEVATIONS**  
A-901 1/4" = 1'-0"



**HM1 PAINTED HOLLOW METAL GLAZING SYSTEM WITH 1/2" CLEAR GLASS**

**8 HOLLOW METAL GLAZING ELEVATIONS**  
A-901 1/4" = 1'-0"



**S9 EXISTING EAST ENTRANCE - VERIFY DIMENSIONS PAINTED ALUM. STOREFRONT SYSTEM KAWNEER TRIFAB 451T**

**9 EXTERIOR ENTRANCE REPLACEMENT**  
A-901 1/4" = 1'-0"

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

C-98  
REGISTERED ARCHITECTS  
CROMWELL ARCHITECTS  
ARKANSAS

REGISTERED ARCHITECT  
H. JAMES ENGSTROM  
ARKANSAS

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
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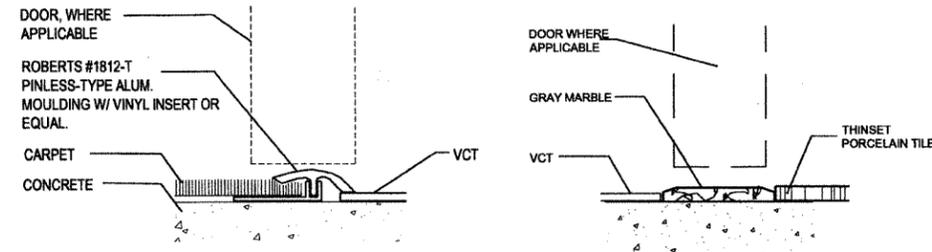
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Issue Date: 14-DECEMBER-2012 Project Number: 2012-102  
Drawing Title: **DOOR SCHEDULE AND DETAILS**  
Drawing Number: **A-901**  
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ROOM FINISH SCHEDULE														
NUMBER	NAME	FLOOR	BASE	NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		CEILING		REMARKS
		MATERIAL	MATL	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	
100	COVERED ENTRANCE	-	-	-	-	-	-	-	-	-	-	-	-	
101	HALL	VCT-1,2,3	RB-1	GWB	P-1	GWB	P-4	ALG	-	-	-	ACT	ACT-1	
102	RECEPTION	VCT-1,2,3	RB-1	GWB	P-1	-	-	GWB	P-1	-	-	GWB	P-1	
103	OFFICE	VCT-1	RB-1	GWB	P-1	GWB	P-1	GWB/ALG	P-1	GWB	P-1	ACT	ACT-1	
104	ASNT DIVISION HEAD	VCT-1	RB-1	GWB	P-1	GWB	P-1	ALG/GWB	P-1	GWB	P-1	ACT	ACT-1	
105	DIVISION HEAD	CPT-1	RB-1	ALG/GWB	P-1	GWB	P-1	ALG/GWB	P-1	GWB	P-1	ACT	ACT-1	
106	HALL	VCT-1,2,3	RB-1	GWB/ALG	P-1	-	-	GWB	P-1	GWB	P-1	ACT	ACT-1	
107	TRAINING/CONFERENCE	CPT-2	RB-1	GWB/ALG	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT	ACT-1	
108	RECEIVING	VCT-1,2,3	RB-1	GWB	P-1	-	-	GWB	P-1	GWB	P-3	GWB	P-1	
109	I.T. & ELEC.	VCT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXP	-	
110	MECHANICAL	VCT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXP	-	
111	HALL	VCT-1,2,3	RB-1	GWB	P-1	GWB/WVC	VWC-1/P-1	-	-	GWB	P-1	ACT/GWB	ACT-1/P-1	
112	WOMEN	PT-1	PTB-1	GWB	P-1	CT	CT-1	GWB	P-1	GWB	P-1	GWB	P-1	
113	MEN	PT-1	PTB-1	GWB	P-1	CT	CT-1	GWB	P-1	GWB	P-1	GWB	P-1	
114	STORAGE	PT-1	PTB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT	ACT-1	
115	OPEN OFFICE	VCT-1,2,3	RB-1	GWB	P-1	ALG/GWB	P-1	GWB/ALG	P-1	GWB	P-1	ACT	ACT-1	
116	RECEPTION	VCT-1,2,3	RB-1	-	-	-	-	GWB	P-4	GWB	P-1	GWB	P-1	
117	TRANSIT ADMIN	VCT-1	RB-1	GWB	P-1	ALG/GWB	P-1	ALG/GWB	P-1	GWB/ALG	P-1	ACT	ACT-1	
118	CONTRACT	VCT-1,2,3	RB-1	GWB	P-4	GWB	P-1	ALG/GWB	P-1	-	-	ACT	ACT-1	
119	OFFICE	VCT-1	RB-1	GWB	P-1	GWB	P-1	ALG/GWB	P-1	GWB	P-1	ACT	ACT-1	
120	STORAGE	CPT-2	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT	ACT-1	

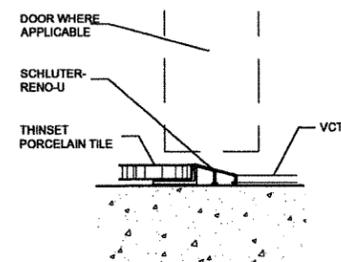
INTERIOR COLOR LEGEND	
CEILING	
ACT-1	ARMSTRONG, 24" X 24" BEVELED TEGULAR ULTIMA #1911, PRELUDE XL 15/16" GRID
FLOORS	
CPT-1	TANDUS FLOORING, BROADLOOM, STYLE: ELEVATION GRID 60121, COLOR: STEEL STRAND 02528
CPT-2	TANDUS FLOORING, MODULAR CARPET TILE, STYLE: LANDFORM COLOURS #04072, COLOR: CAST CONCRETE #65016; INSTALLATION TO BE QUARTER TURNED WHILE MIXING ACCENT COLORS IN CARPET TILE
VCT-1	ARMSTRONG, STRIATIONS BBT, COLOR: T3603 TWILIGHT
VCT-2	ARMSTRONG, RAFFIA, COLOR: T3604 MIDNIGHT
VCT-3	ARMSTRONG, STRIATIONS, COLOR: T3608 WARM GRAY
PT-1	STONEPEAK, STYLE: SKY, COLOR: GREENSKY12" X 12" PORCELAIN TILE
CT-1	DALTILE, RITTENHOUSE SQUARE, 3" X 6" MATTE FIELD TILE, COLOR: ARCTIC WHITE #0790; INSTALL IN A MODIFIED RUNNING BOND PATTERN WITH 33% OVERLAY PATTERN
BASE	
RB-1	JOHNSONITE, 4" VINYL COVE BASE, COLOR: 20 CHARCOAL WG
PTB-1	STONEPEAK, STYLE: SKY, 6" X 12" TO MATCH PT-1
WALLS	
P-1	SHERWIN WILLIAMS, SHOJI WHITE #SW7042 (TYPICAL WALL AND CEILING PAINT)
P-2	SHERWIN WILLIAMS, GRIZZLE GRAY #SW7068 (TYPICAL TRIM PAINT)
P-3	SHERWIN WILLIAMS, BRASSY #SW6410 (ACCENT PAINT)
P-4	SHERWIN WILLIAMS, SAFFRON THREAD #SW6863 (ACCENT PAINT)
VWC-1	DIGITAL PHOTOGRAPHIC WALLCOVERING- SEE SPECIFICATIONS FOR ALLOWANCE
MILLWORK	
ST-1	ALGOMA HARDWOODS STAIN RA-1055
SS-1	CORIAN, COLOR: LINEN

ABBREVIATIONS	
NAME	DESCRIPTION
-	"NONE" OR "NO"
ACT	ACOUSTICAL CEILING TILE
ALG	ALUMINUM AND GLASS
CPT	CARPET
CT	CERAMIC TILE
EXP	EXPOSED
GWB	GYPSUM WALL BOARD
P	PAINT
PL	PLASTIC LAMINATE
PT	PORCELAIN TILE
RB	RESILIENT BASE
SS	SOLID SURFACE
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALLCOVERING
PTB	PORCELAIN TILE BASE



1 FLOOR DETAIL  
A-902 NOT TO SCALE

2 FLOOR DETAIL AT RESTROOMS  
A-902 NOT TO SCALE



3 FLOOR DETAIL  
A-902 NOT TO SCALE

- ### GENERAL FINISH NOTES
- WINDOW SHADES TO BE DRAPER MANUAL FLEXSHADE WITH DRAPER PERFORMANCE 2410 PHIFER SHEER WEAVE FABRIC, COLOR: Q21 BEIGE- 3% OPENNESS. SEE SHEET A-101R FOR WINDOW SHADE LOCATIONS.
  - PROVIDE TRANSITION STRIPS AND THRESHOLDS FOR FLOOR CHANGES. CONTRACTOR TO PROVIDE SAMPLES TO A/E FIRM FOR APPROVAL AND COLOR SELECTION.
  - EPOXY GROUT TO BE USED ON PT-1 FLOOR AND PTB-1 TO MATCH LATICRETE #78 STERLING SILVER.
  - UNSANDED GROUT TO BE USED ON CT-1 TO MATCH LATICRETE #44 BRIGHT WHITE.
  - MILLWORK TO HAVE ST-1 ON WOOD CABINET SURFACES AND SS-1 ON COUNTERTOP AND BACKSPLASH.
  - HOLLOW METAL DOOR FRAMES TO BE P-2, SEMI-GLOSS FINISH.
  - TYPICAL WALL PAINT TO BE EGGSHELL FINISH, CEILING PAINT TO BE FLAT FINISH, EPOXY PAINT TO BE USED ON TOILET WALLS.
  - SOLID SURFACE WINDOW SILLS TO BE SS-1.
  - WOOD DOORS TO BE RIFT CUT RED OAK, BOOKMATCHED AND STAINED TO MATCH ALGOMA HARDWOODS STAINED TO MATCH ST-1.
  - VCT FLOOR PATTERNS TO BE DETERMINED.

No.	Date	Description
1	01-05-2013	ADDENDUM 001



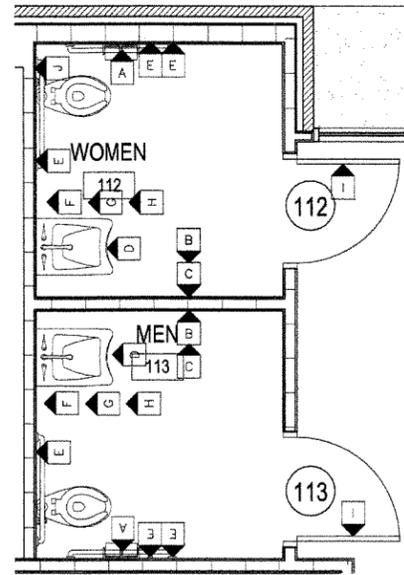
CONSTRUCTION DOCUMENTS

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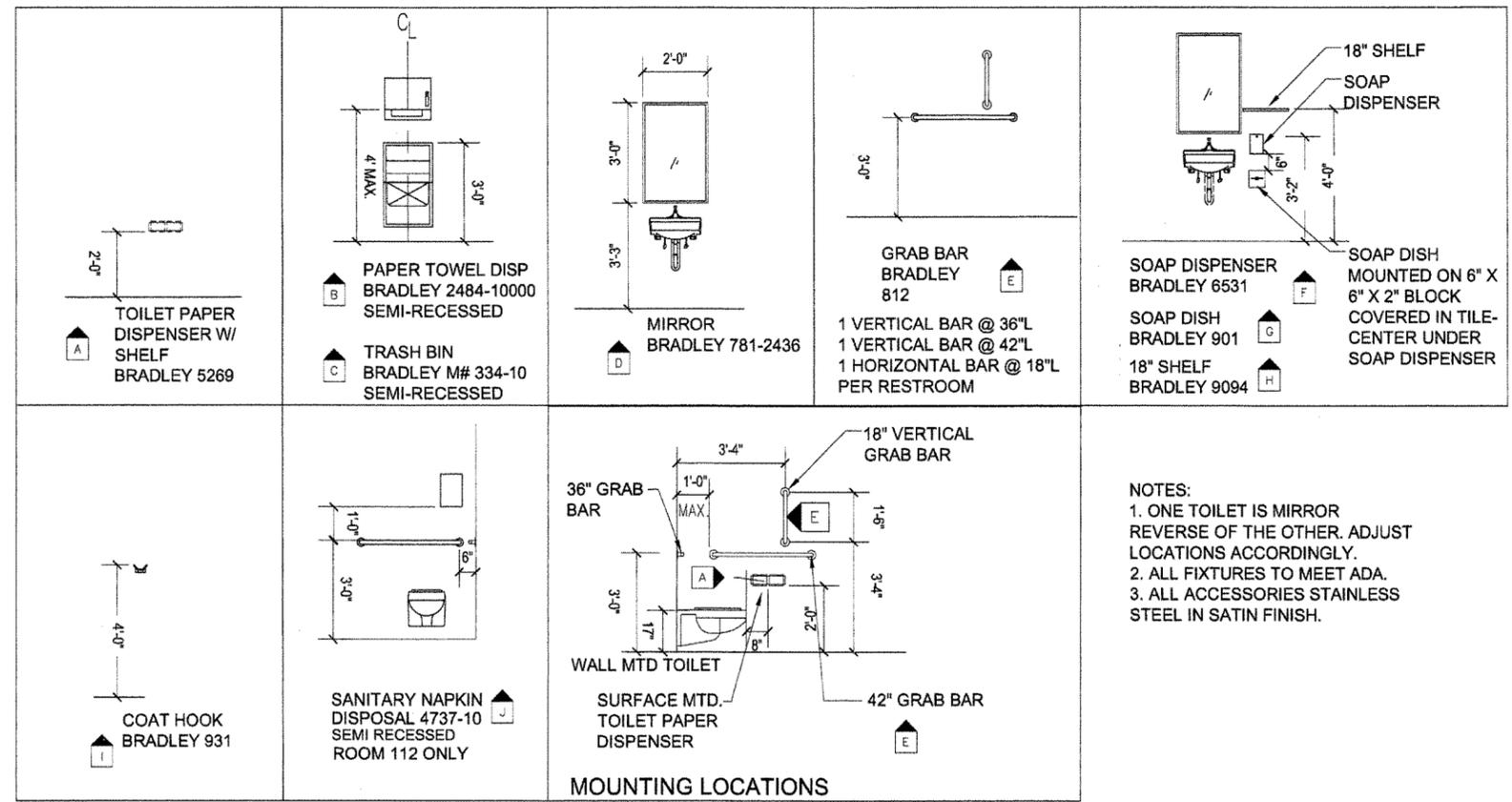
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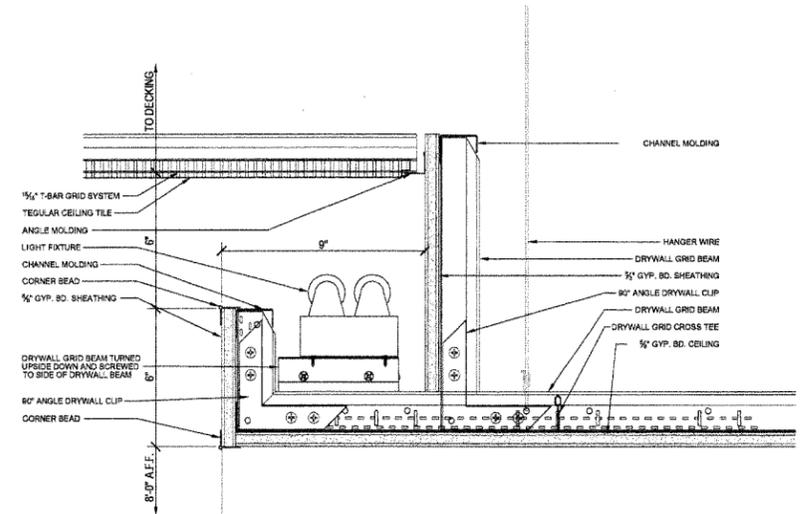
Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>FINISH SCHEDULE</b>	
Drawing Number <b>A-902</b>	
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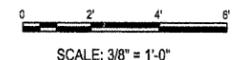
**1 TOILET PLAN**  
A-903 3/8" = 1'-0"



**2 TOILET ACCESSORIES**  
A-903 3/8" = 1'-0"



**3 CEILING LIGHT COVE DETAIL**  
A-903 3/8" = 1'-0"



Description		Date	No.

REGISTERED ARCHITECTS  
C-98  
ARKANSAS

REGISTERED ARCHITECT  
ROBERT W. KELTNER  
ARKANSAS  
12/11/12

CONSTRUCTION DOCUMENTS

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
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Issue Date: 14-DECEMBER-2012 Project Number: 2012-102

Drawing Title: TOILET PLANS & DETAILS

Drawing Number: A-903

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## PLUMBING GENERAL NOTES

1. ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
2. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION.
3. BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
4. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
5. CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES; i.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION; i.e., SANITARY SEWER, STORM DRAIN, FIRE PROTECTION, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.
8. PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP OR BATTERY OF FIXTURES IN THE DOMESTIC CW, HW, HWR AND GAS PIPING. VALVES SHALL BE EASILY ACCESSIBLE. WHERE HARD CEILINGS ARE LOCATED, VALVES SHALL BE ACCESSED THROUGH ACCESS PANELS. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO CONSTRUCTION.
9. PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC., SHALL BE CHROME PLATED AND INSTALLED TIGHT TO WALL. WHERE PIPING IS EXPOSED, CHROME PLATED PIPE SHALL BE USED.
10. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.
11. SLOPE 2 1/2" AND SMALLER DRAIN WASTE AND VENT (DWV) LINES AT MIN. (2%) 1/4" FALL PER FT., 3" TO 6" DWV LINES AT MIN. (1%) 1/8" FALL PER FT. AND 8" AND LARGER DWV LINES AT MIN. (.5%) 1/16" FALL PER FT. SANITARY SEWER AND WATER SHALL BE A MINIMUM OF 10' APART OR THE DOMESTIC WATER SERVICE SHALL BE 12" ABOVE THE TOP OF THE SEWER LINE, AT ITS HIGHEST POINT, IF PLACED IN SAME TRENCH.
12. PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
13. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
14. PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES, AND ALL VERTICAL STACKS AT A HEIGHT OF 30" ABOVE FINISH FLOOR AT THE BASE OF EACH STACK.
15. WHERE WATER PRESSURES EXCEED 80 PSI, PROVIDE WATER PRESSURE REDUCING VALVES (PRV) WITH STRAINER IN WATER SUPPLY LINES, SETTING AT 80 PSI. SEE CODE AND MANUFACTURER INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS.
16. ALL PIPING PENETRATIONS OF THE RATED CEILING AND WALL MUST BE MADE WITH METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.
17. DO NOT ROUTE ANY PIPING OVER ELEC. ROOMS, COMPUTER ROOMS, OR ELEC. PANELS.
18. INSTALL AN AGA LISTED NATURAL GAS COCK, DIRT LEG AND UNION IMMEDIATELY UPSTREAM OF EQUIPMENT CONNECTIONS. AS NOTED ON DRAWINGS PROVIDE AN AGA LISTED VENT LIMITING GAS REGULATOR. GAS REGULATORS SHALL NOT BE INSTALLED IN AIR PLENUMS (SEE HVAC PLANS FOR AIR PLENUM LOCATIONS).
19. ALL DOMESTIC WATER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED BELOW INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. WHERE PIPING CAN NOT BE ROUTED BELOW INSULATION, PIPING SHALL HAVE 5 WATT/FT HEAT TRACING ATTACHED. SEE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND ENGINEER.
20. UNLESS OTHERWISE INDICATED DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.
21. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS AND GAS REGULATORS.
22. ALL STORM DRAIN, CONDENSATE DRAIN, SEWER & VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF CONSTRUCTION.
23. ALL PIPE DROPS FROM CEILING PLENUM TO FLOOR SHALL BE MADE IN FURROUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED BY ARCHITECT.
24. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.
25. BELOW SLAB WATER PIPE TO BE TYPE K SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS. SLEEVE IN ENTIRETY WITH ARMAFLEX OR APPROPRIATE POLYETHYLENE SLEEVE MATERIAL.
26. PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
27. INSULATE ALL WATER, CONDENSATE, STORM DRAIN PIPING (VERTICAL AND HORIZONTAL) AND ROOF DRAIN BODIES ABOVE FINISH FLOOR. SEE SPECIFICATIONS FOR THICKNESS SCHEDULE.
28. INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
29. ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS (EXISTING AND NEW) SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 OR A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. IF ANY MATERIALS (EXISTING OR NEW) DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM-BOARD ENCLOSURE, BE REPLACED WITH PLENUM RATED MATERIALS (I.E. CAST IRON), OR BE WRAPPED WITH AN APPROVED FIRE RATING MATERIAL, SUCH AS 3M Fyre WRAP. PLASTIC PIPING (PVC, ABS, AND CPVC) IS NOT APPROVED TO BE INSTALLED WITHIN RETURN AIR PLENUMS. BY NECESSITY, WE HAVE NOTED AS MANY AREAS AS POSSIBLE ON THE PLANS WHERE THESE CONDITIONS OCCUR, BUT IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDITIONS (WHETHER SHOWN ON THE PLANS OR NOT) AND INCLUDE THE REPLACEMENT/WRAPPING OF THESE ITEMS IN THE BID PRICE (SEE NOTE 7 ABOVE). COORDINATE RETURN AIR PLENUM LOCATIONS AND ANY NOTED DISCREPANCIES FROM THE PLANS WITH MECHANICAL ENGINEER PRIOR TO BID.
30. FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE VERIFIED WITH EQUIPMENT LAYOUT FOR INTERFERENCES.
31. AN APPROVED TRAP GUARD PRODUCT CONFORMING TO NSF-14, CSAB602-99 AND CSAB79-94 SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. ALL DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.

## PLUMBING SYMBOL LEGEND

(NOTE: NOT ALL SYMBOLS ARE USED IN THIS PROJECT)

SYMBOL	DESCRIPTION
	90° ELBOW
	45° ELBOW
	BRANCH CONNECTION OUT OF SIDE
	BRANCH CONNECTION OUT OF TWO SIDES
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF BOTTOM TO 90° ELBOW
	BRANCH CONNECTION OUT OF TOP TO 90° ELBOW
	RISER DOWN TO 90° ELBOW
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CIRCUIT SETTER
	GAS COCK
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	2-WAY MOTORIZED VALVE
	3-WAY MOTORIZED VALVE
	3-WAY VALVE
	ANGLE VALVE
	SWING CHECK VALVE
	UNION
	FLOW - IN DIRECTION OF ARROW
	CONCENTRIC REDUCER
	REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ)
	STRAINER-WYE
	STRAINER-WYE WITH BLOW OFF
	CAP ON END OF PIPE
	FLOOR CLEANOUT (SIZE SHALL BE SAME AS CARRIER PIPE)
	CLEANOUT TO GRADE (SIZE SHALL BE SAME AS CARRIER PIPE)
	DOUBLE CLEANOUT TO GRADE (SIZE SHALL BE SAME AS CARRIER PIPE)
	WALL CLEANOUT
	CLEANOUT PLUG

## PLUMBING SYMBOL LEGEND

(NOTE: NOT ALL SYMBOLS ARE USED IN THIS PROJECT)

SYMBOL	DESCRIPTION
	PIPE ANCHOR
	FLEXIBLE CONNECTOR (FLEX. CONN.)
	WATER HAMMER ARRESTOR
	PRESSURE GAUGE
	THERMOMETER
	VALVE IN CAST IRON BOX
	AAV AIR ADMITTANCE VALVE (MAXI STUDOR VENT)
	NEW PLUMBING FIXTURE
	EXISTING PLUMBING FIXTURE
	DOMESTIC PLUMBING FIXTURE
	DWH-X TANKLESS DOMESTIC WTR. HEATER
	DWH-X DOMESTIC WATER HEATER
	WASHING MACHINE BOX
	WATER CONNECTION BOX
	WALL HYDRANT AND HOSE BIBB
	WC-X FIXTURE TAG
	(X) KEYED NOTE
	1 REVISION TAG
	X" VTR (R/X) PLUMBING RISER TAG

## PLUMBING SYSTEM LEGEND

(NOTE: NOT ALL SYSTEMS ARE USED IN THIS PROJECT)

SYMBOL	DESCRIPTION
DOMESTIC WATER	
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	SS SANITARY SEWER
	VENT
	CD CONDENSATE DRAIN



CONSTRUCTION DOCUMENTS

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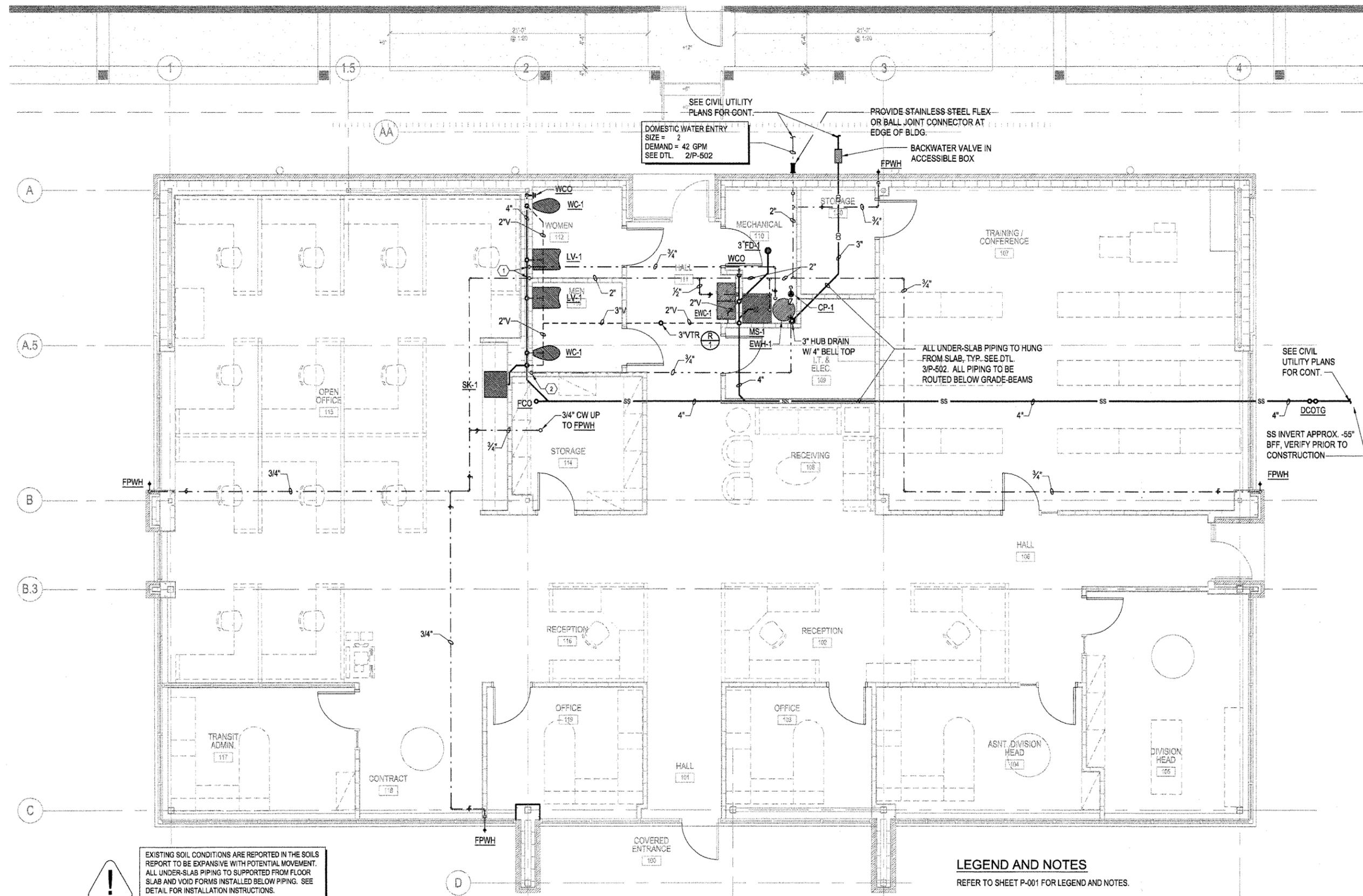
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P: 501.376.7246 F: 501.376.6627

Issue Date	Project Number
14-DECEMBER-2012	2012-102

Drawing Title  
**PLUMBING NOTES  
AND LEGEND**

Drawing Number  
**P-001**  
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EXISTING SOIL CONDITIONS ARE REPORTED IN THE SOILS REPORT TO BE EXPANSIVE WITH POTENTIAL MOVEMENT. ALL UNDER-SLAB PIPING TO BE SUPPORTED FROM FLOOR SLAB AND VOID FORMS INSTALLED BELOW PIPING. SEE DETAIL FOR INSTALLATION INSTRUCTIONS.

STRUCTURAL SLAB CONSTRUCTION IS DRILLED PIERS AND GRADE BEAMS. PLUMBING CONTRACTOR SHALL CAREFULLY COORDINATE ALL UNDER SLAB PIPING WITH STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. OFFSETS AND PIPE RELOCATIONS MAY BE NECESSARY TO AVOID STRUCTURE.



**1 PLUMBING PLAN**  
1/4" = 1'-0"  
SCALE: 1/4" = 1'-0"



**LEGEND AND NOTES**

REFER TO SHEET P-001 FOR LEGEND AND NOTES.

**PLUMBING PLAN - KEYED NOTES**

- ① 2" CW AND 3/4" HW IN WALL TO HEADER, TAP AS REQUIRED. SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL SIZES. PROVIDE WATER HAMMER ARRESTOR ON CW DROP ABOVE CEILING.
- ② 3/4" HWR UP IN WALL, ROUTE TO EWH-1.

No.	Date	Description



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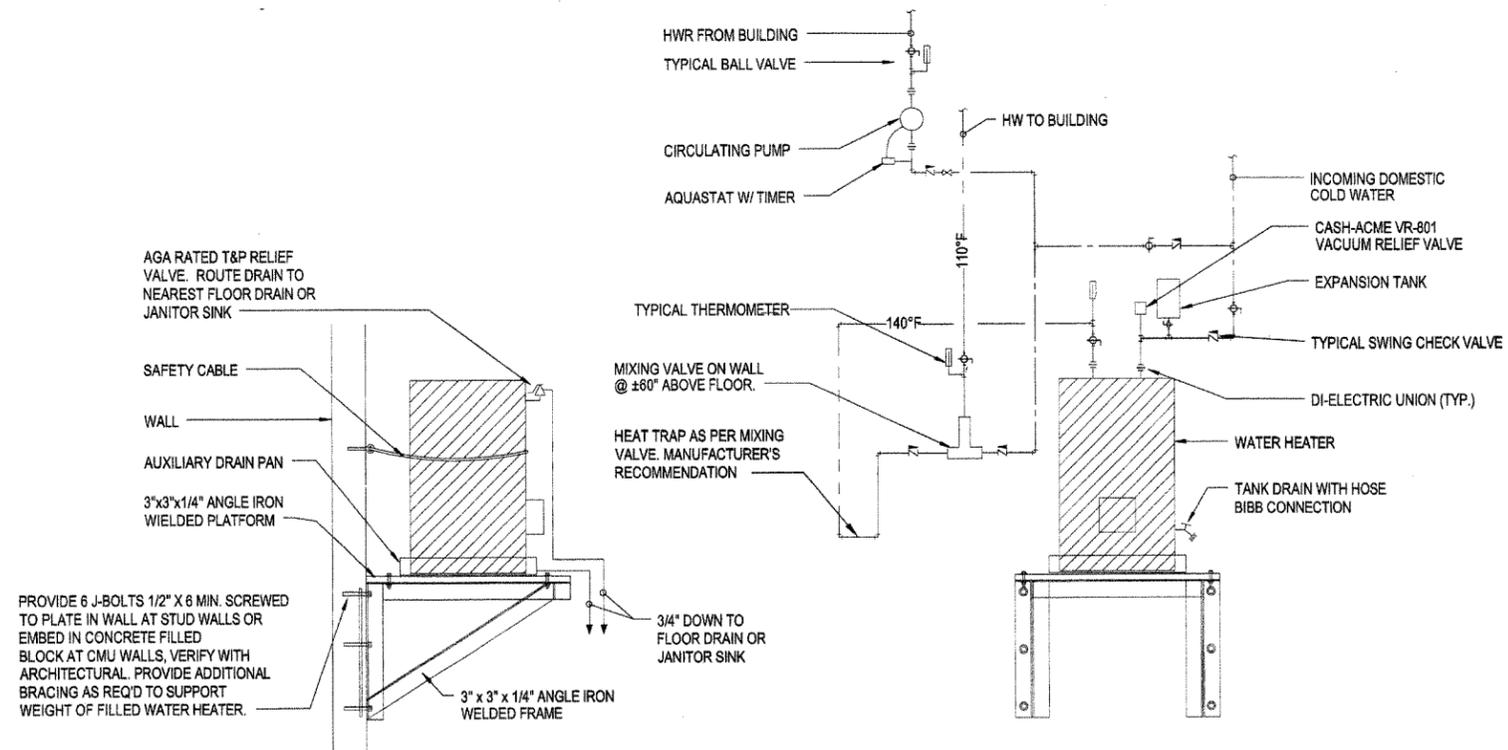


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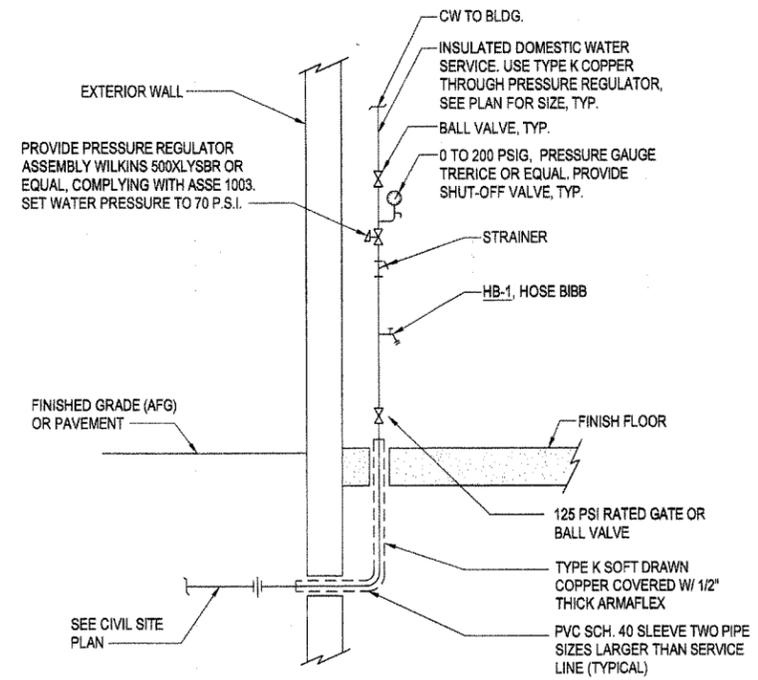
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Drawing Title	<b>PLUMBING PLAN</b>		
Drawing Number	<b>P-101</b>		
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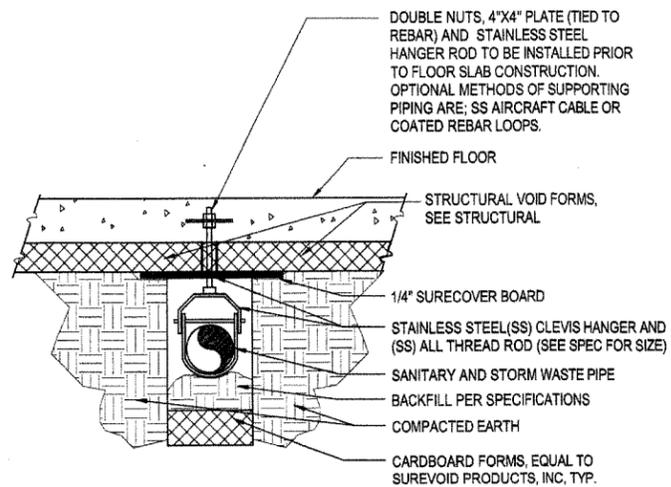




**1** ELECTRIC WATER HEATER WITH MIXING VALVE  
NO SCALE



**2** DOMESTIC WATER SERVICE RISER  
NO SCALE



**3** SEWER INSTALL BELOW SLAB  
NO SCALE

Description	No.	Date



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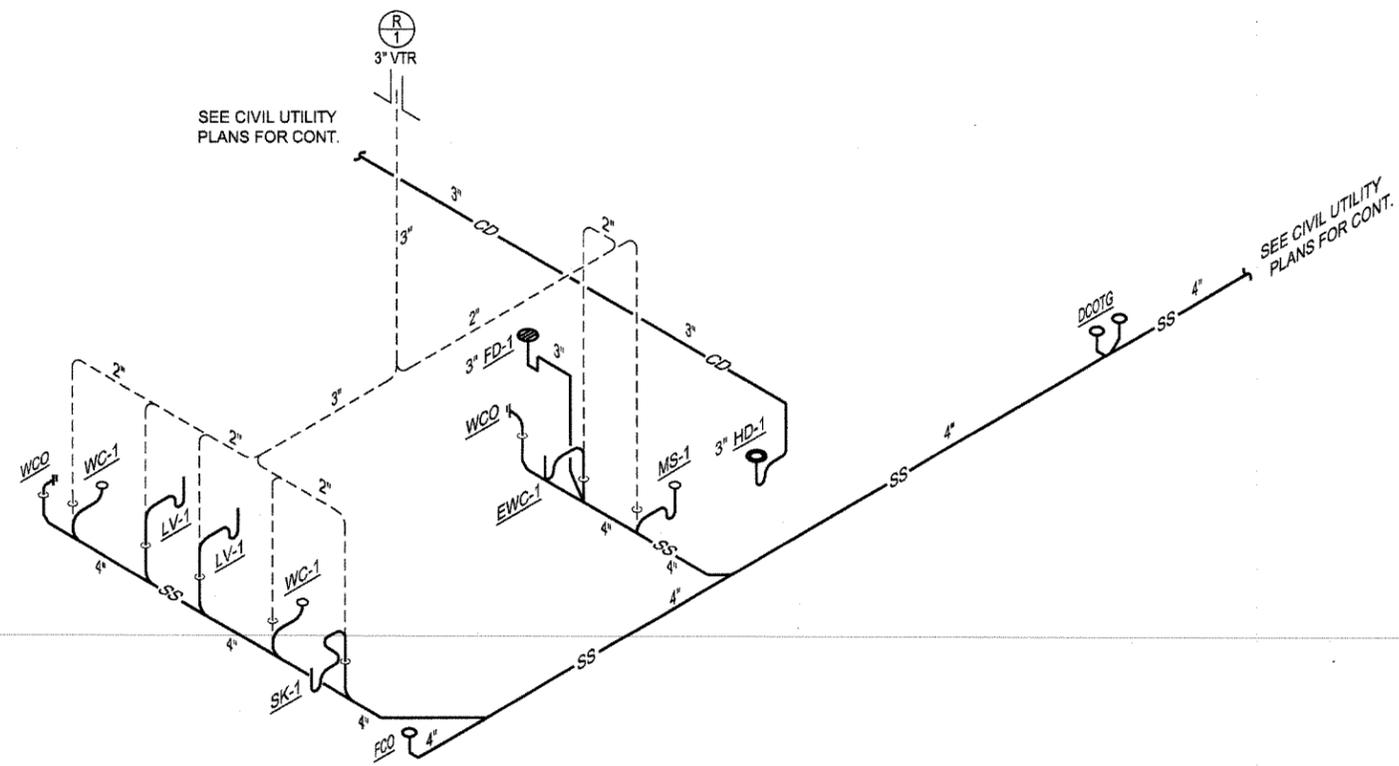
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Issue Date	Project Number
14-DECEMBER-2012	2012-102

Drawing Title  
**PLUMBING DETAILS**

Drawing Number  
**P-502**  
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**R1** PLUMBING WASTE AND VENT RISER  
NO SCALE

No.	Date	Description



CONSTRUCTION DOCUMENTS

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Issue Date	Project Number
14-DECEMBER-2012	2012-102

Drawing Title  
**PLUMBING WASTE  
AND VENT RISER**

Drawing Number  
**P-901**  
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## HVAC DUCTWORK

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY UP		FIRE OR SMOKE DAMPER
	RETURN UP		SPLITTER DAMPER AT BRANCH OFF
	SUPPLY DOWN		SPLITTER DAMPER AT TEE
	RETURN DOWN		BULL HEAD TEE W/ TURNING VANES & DAMPERS
	ROUND UP		TAKE OFF W/ EXTRACTOR & MANUAL DAMPER
	ROUND DOWN		RECTANGULAR TRANSITION
	ROUND DUCT BREAK		90° BEND, ROUND DUCT
	RECTANGULAR DUCT BREAK		45° BEND, ROUND DUCT
	DOOR GRILLE		45° RECTANGULAR DUCT
	OPPOSED BLADE DAMPER		RETURN OR EXHAUST AIR DEVICE
	PARALLEL BLADE DAMPER		
	MANUAL DAMPER		
	FLEXIBLE CONNECTION		
	LINED DUCT		
	90° ELBOW W/ TURNING VANE		
	SUPPLY AIR DEVICE		

	THERMOSTAT		DIFFUSER CALL-OUT (SEE SCHEDULE SHEET)
	HUMIDISTAT		
	CARBON DIOXIDE SENSOR		VAV CALL-OUT (SEE SCHEDULE SHEET)
	FIRE DAMPER CALL-OUT		
	SMOKE DAMPER CALL-OUT		
	COMBINATION FIRE/SMOKE DAMPER CALL-OUT		

## HVAC PIPING

SYMBOL	DESCRIPTION	ABBREVIATION
	CONDENSATION DRAIN	D
	REFRIGERANT SUCTION	RS
	REFRIGERANT LIQUID	RL

## GENERAL

SYMBOL	DESCRIPTION
	CONNECT TO EXISTING AT THIS POINT
	KEYED NOTE
	REVISION/ADDENDUM CALL-OUT

\*\*\* SEE SHEET P001 FOR ABBREVIATION LIST & PLUMBING SYMBOLS \*\*\*

NOTE: ALL SYMBOLS MAY NOT BE USED.

## HVAC GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE 2010 EDITION OF THE "ARKANSAS MECHANICAL CODE", THE 2010 EDITION OF THE "ARKANSAS ENERGY CODE", NFPA 90A, AND ALL CITY, STATE, AND LOCAL REQUIREMENTS.
- REFER TO THE PROJECT MANUAL FOR ALL REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR:
  - \* REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES AND CEILING TYPES.
  - \* EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXTERIOR LOUVERS.
  - \* FIRE RATED WALLS AND PARTITIONS. PROVIDE FIRE DAMPERS IN DUCT PENETRATIONS OF ALL FIRE RATED WALLS AND PARTITIONS AS NECESSARY TO MEET CITY AND STATE REQUIREMENTS.
  - \* ALL WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS.
- ALL DUCT DIMENSIONS REPRESENT AIRFLOW AREA. INCREASE DUCT DIMENSIONS AS REQUIRED WHERE INTERNAL LINER IS SPECIFIED.
- ALL DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION.
- U.L. LISTED FLEXIBLE DUCT RUN-OUTS MAY BE USED, BUT SHALL NOT EXCEED 5'-0" IN LENGTH. ALL FLEXIBLE DUCT TO BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS.
- DUCT FITTINGS:
  - \* SUPPLY TAKE-OFFS TO CEILING SUPPLY DIFFUSERS TO BE CONICAL TAP OR 45° SIDE TAP.
  - \* ALL DUCT RUN-OUTS TO HAVE LOCKING QUADRANT VOLUME DAMPERS. PROVIDE STAND-OFF BRACKET TO ACCOMMODATE INSULATION THICKNESS.
  - \* ALL 90° ROUND ELBOWS TO HAVE R/D=1.5 (UNLESS OTHERWISE NOTED).
  - \* ALL 90° RECTANGULAR ELBOWS TO HAVE TURNING VANES (UNLESS OTHERWISE NOTED).
  - \* PROVIDE HARD ELBOW WHEN TRANSITIONING FROM RIGID TO FLEXIBLE DUCT WHEN CONNECTING TO AIR DEVICES. REFER TO DETAIL.
- DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE SLOPED WITH 2-30° ELBOWS UNLESS OTHERWISE NOTED.
- COMPLETELY INSULATE THE TOPS OF ALL CEILING DIFFUSERS.
- CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
- MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
- PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS.
- CONDENSATE PIPING SHALL BE COMPRISED OF TYPE "M", DWV COPPER, OR SCHEDULE 40 PVC. PVC EXPOSED TO SUNLIGHT SHALL HAVE UV RESISTANT COATING.
- FOR EACH ROOFTOP UNIT, CONDENSATE PIPE ROUTED ALONG THE ROOF (AND SUPPORTED ABOVE ROOF) SHALL SPILL INTO NEAREST ROOF DRAIN, OR GUTTER. SPILLING CONDENSATE ONTO THE ROOF SURFACE IS UNACCEPTABLE.
- ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E., THERMOSTATS, HUMIDISTATS, CO2 CONTROLLERS, CONTROL PANELS, ETC., SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR.



CONSTRUCTION DOCUMENTS

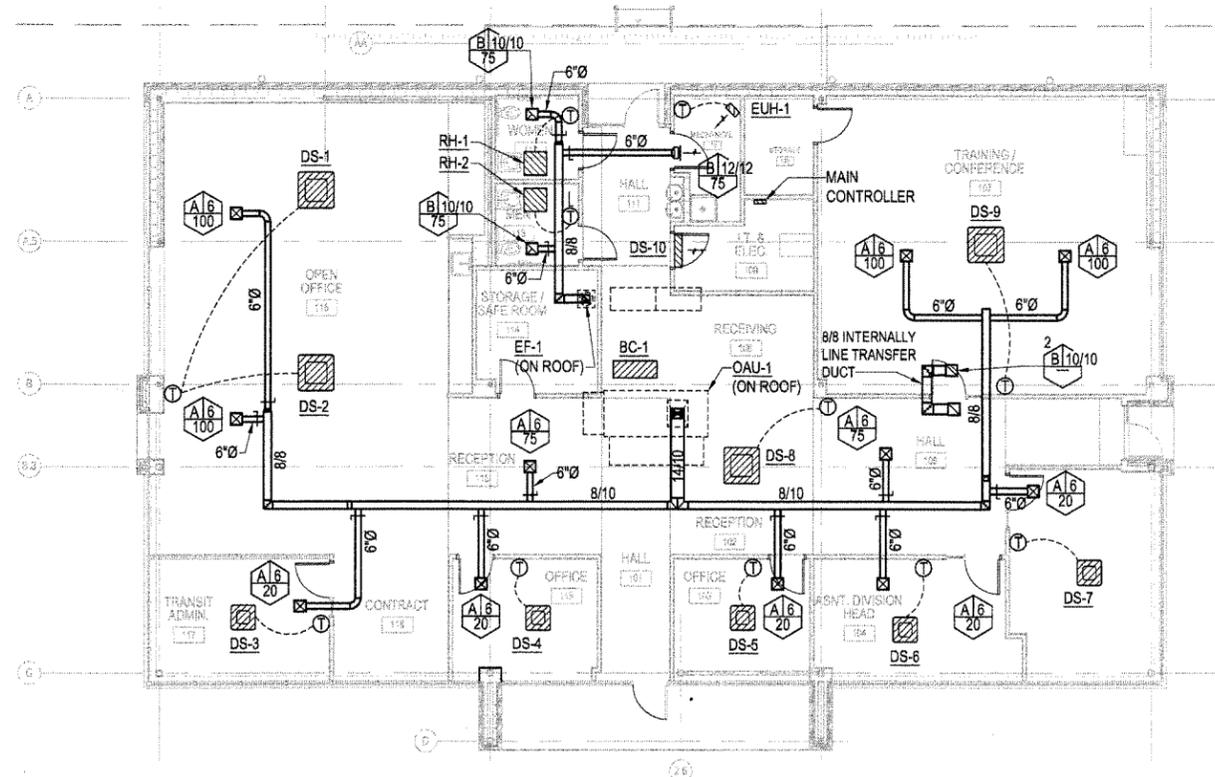
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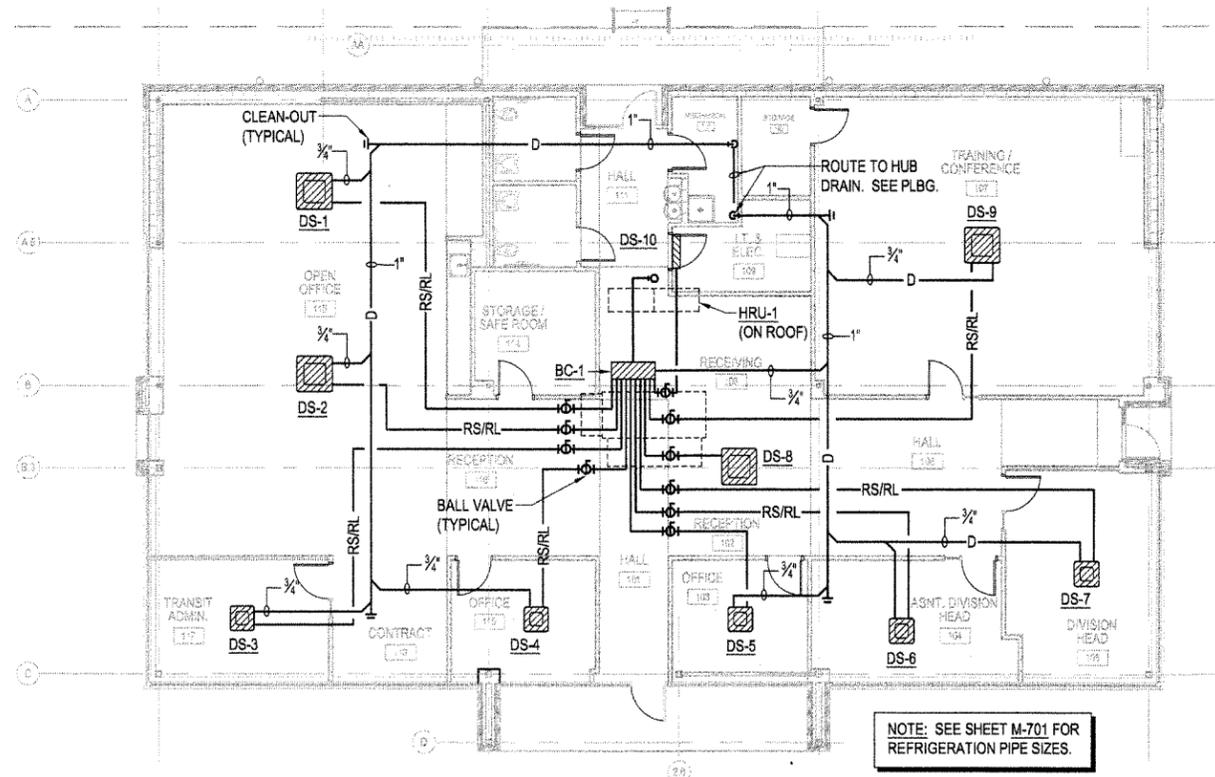
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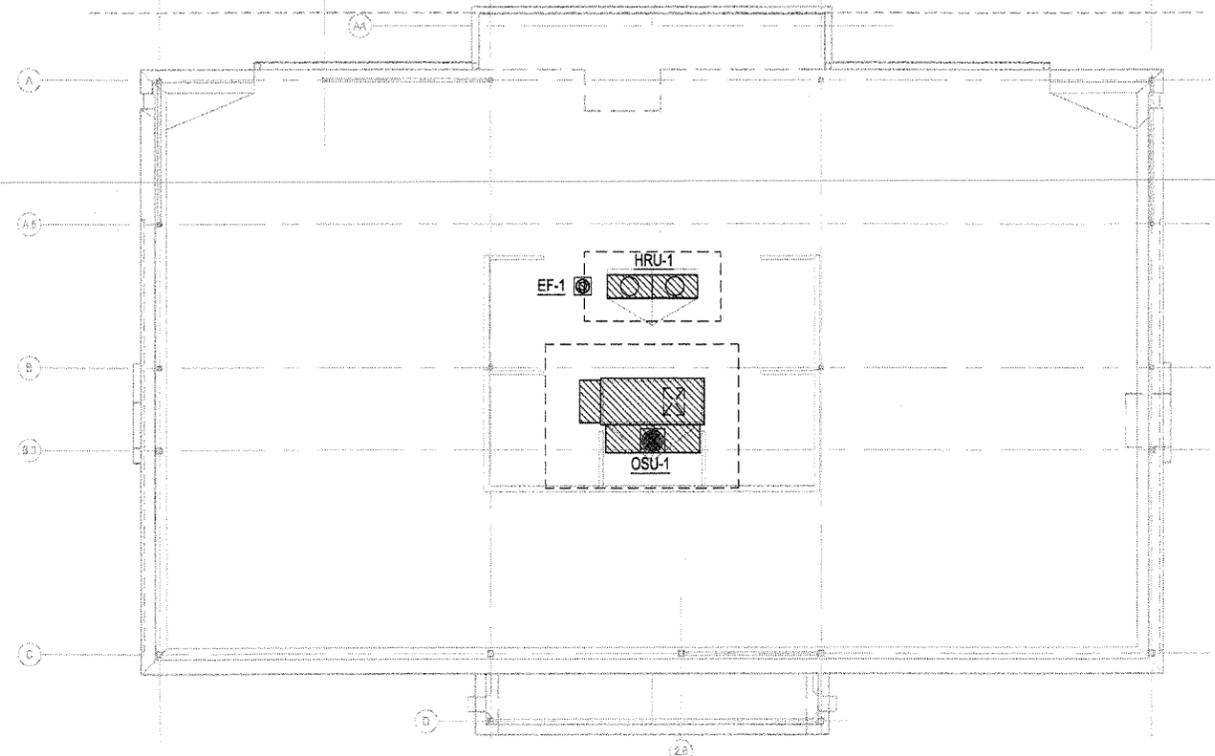
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Drawing Title <b>HVAC LEGEND</b>	
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**1 HVAC PLAN**  
 1/8" = 1'-0"  
 SCALE: 1/8" = 1'-0"  
 PLAN NORTH

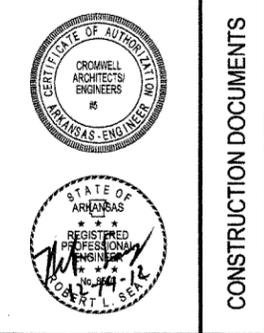


**2 HVAC PIPING PLAN**  
 1/8" = 1'-0"  
 SCALE: 1/8" = 1'-0"  
 PLAN NORTH



**3 HVAC ROOF PLAN**  
 1/8" = 1'-0"  
 SCALE: 1/8" = 1'-0"  
 PLAN NORTH

No.	Date	Description

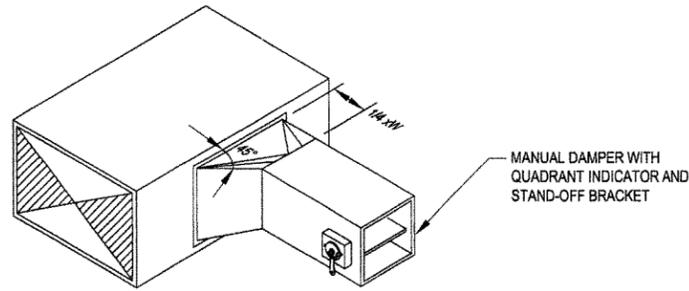


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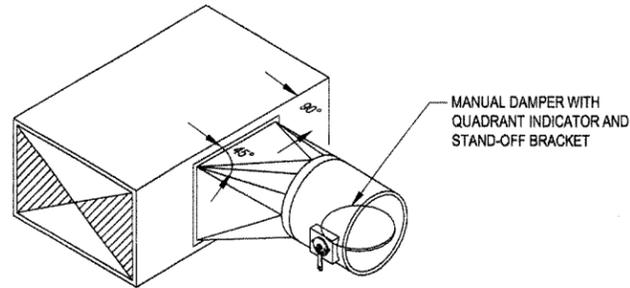
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Drawing Title	HVAC PLAN		
Drawing Number	M-101		
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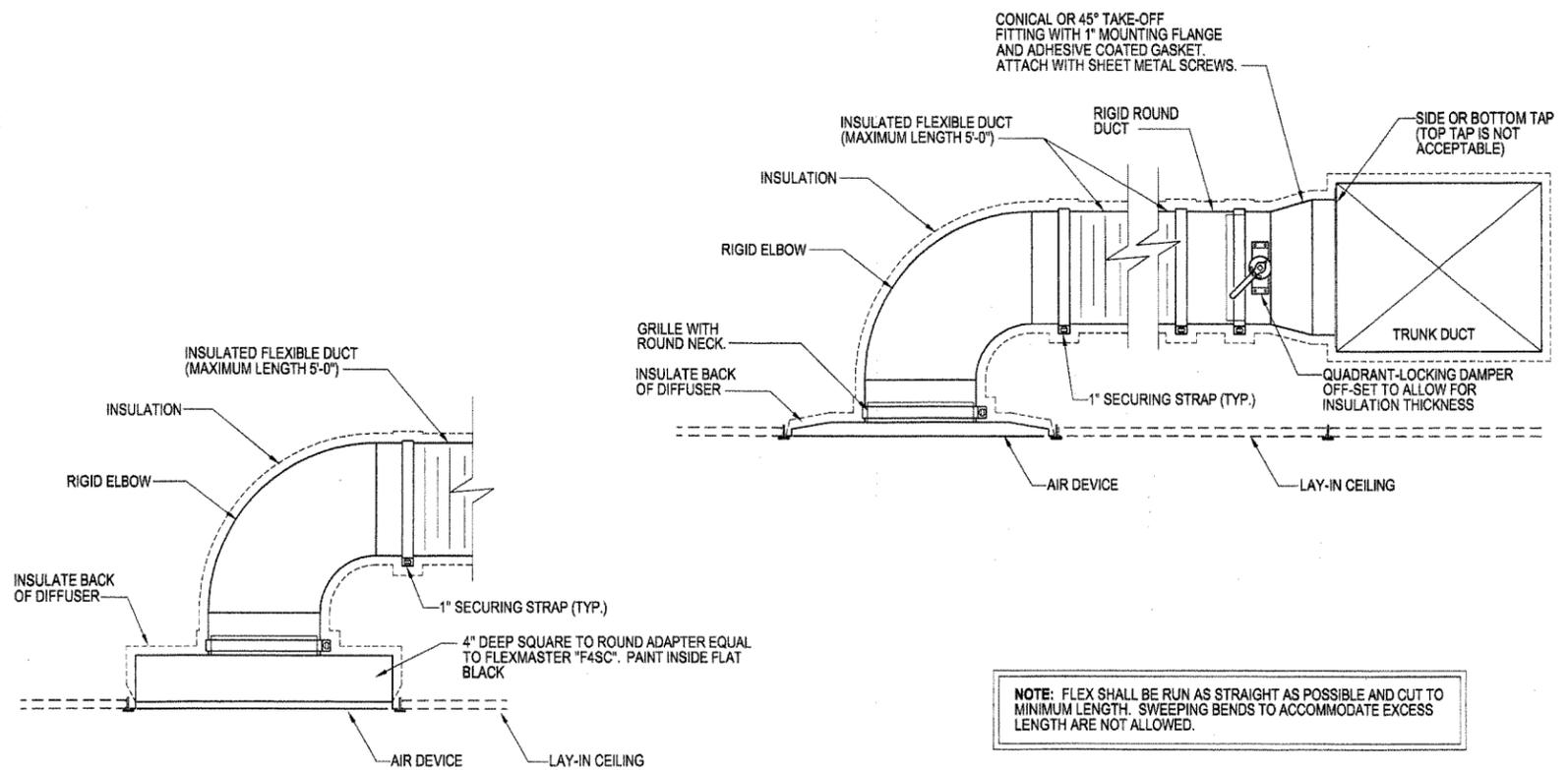


**RECTANGULAR TO RECTANGULAR**



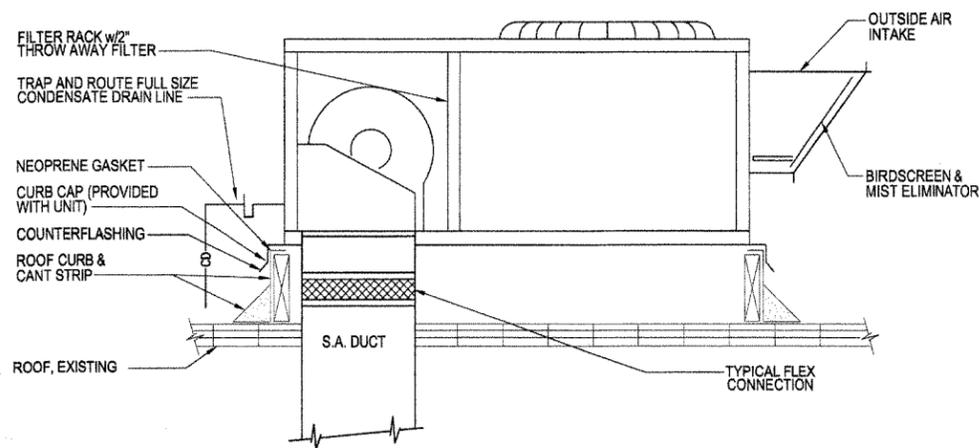
**RECTANGULAR TO ROUND**

**1 DUCT TAKE-OFF DETAIL**  
NO SCALE

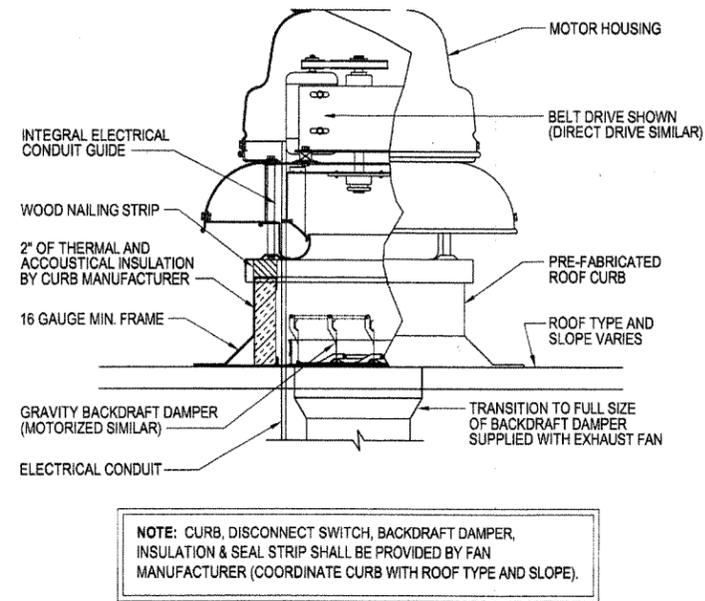


**NOTE:** FLEX SHALL BE RUN AS STRAIGHT AS POSSIBLE AND CUT TO MINIMUM LENGTH. SWEEPING BENDS TO ACCOMMODATE EXCESS LENGTH ARE NOT ALLOWED.

**2 ROUND TAKE-OFF DUCT CONNECTION DETAIL**  
NO SCALE



**3 DX/ELECTRIC PACKAGE ROOFTOP UNIT**  
NO SCALE



**NOTE:** CURB, DISCONNECT SWITCH, BACKDRAFT DAMPER, INSULATION & SEAL STRIP SHALL BE PROVIDED BY FAN MANUFACTURER (COORDINATE CURB WITH ROOF TYPE AND SLOPE).

**4 EXHAUST FAN**  
NO SCALE

No.	Date	Description

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Drawing Title	
<b>HVAC DETAILS</b>	
Drawing Number	
<b>M-501</b>	
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**100% OUTSIDE AIR PACKAGED ROOF-TOP UNIT (DX COOLING W/ ELECTRIC HEAT)**

MARK	SERVES	COOLING CAPACITY (6)				EVAPORATOR FAN DATA					OSA CFM	HEATING CAPACITY (KW)				CONDENSING UNIT					ELECTRICAL DATA				UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS			
		TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR		NO.	TYPE	CFM	HP	E.S.P.		CONDENSER FAN DATA				COMPRESSOR DATA			AMB. TEMP. (°F)	MCA	MOCP	VOLTS	Ø								
				DB (°F)	WB (°F)							NO.	TYPE	FLA	NO.	TYPE	RLA	REFRIG													
OAU-1	SEE PLANS	63.3	33.5	100.0°	79.5°	1	FC	650	0.50	0.5	650	15	SCR	460.0	3.0	1	PROP	2.2	1	SCROLL	9.7	R-410A	105.0°	26.3	30	460	3	1,300	VALENT	VPR-110-5A-15E-C-0CX	1, 2, 3, 4, 5, 6

1. PROVIDE UNIT MOUNTED DISCONNECT
2. PROVIDE GFI SERVICE OUTLET
3. PROVIDE MERV 8 FILTER
4. PROVIDE HINGED ACCESS DOORS
5. PROVIDE HOT GAS REHEAT COIL: CAPACITY: 24.8 MBH
6. LAT: 72°F SUMMER; 70°F WINTER

**DUCTLESS SPLIT SYSTEM**

MARK	SERVES	INDOOR UNIT TYPE	COOLING CAPACITY TOTAL/SENS (MBH)	HEATING CAPACITY (MBH)	CFM	ELECTRICAL DATA				SEER	REFRIG.	MANUFACTURER	MODEL	REMARKS
						MCA	MOCP	VOLTS	Ø					
DS-1	OPEN OFFICE 115	CEILING CASSETTE	23.3 / 16.1	21.4	777	0.64	15.0	208	1	---	R-410A	DAIKIN	PLFY-P30NBMU-E	1
DS-2	OPEN OFFICE 115	CEILING CASSETTE	23.3 / 16.1	21.4	777	0.64	15.0	208	1	---	R-410A	DAIKIN	PLFY-P30NBMU-E	1
DS-3	TRANSIT ADMIN 117	CEILING CASSETTE	9.3 / 7.7	8.5	390	0.35	15.0	208	1	---	R-410A	DAIKIN	PLFY-P12NCMU-E	1
DS-4	OFFICE 119	CEILING CASSETTE	9.3 / 7.7	8.5	390	0.35	15.0	208	1	---	R-410A	DAIKIN	PLFY-P12NCMU-E	1
DS-5	OFFICE 103	CEILING CASSETTE	9.3 / 7.7	8.5	390	0.35	15.0	208	1	---	R-410A	DAIKIN	PLFY-P12NCMU-E	1
DS-6	ASNT DIV HEAD 104	CEILING CASSETTE	9.3 / 7.7	8.5	390	0.35	15.0	208	1	---	R-410A	DAIKIN	PLFY-P12NCMU-E	1
DS-7	DIV HEAD 105	CEILING CASSETTE	9.3 / 7.7	8.5	390	0.35	15.0	208	1	---	R-410A	DAIKIN	PLFY-P12NCMU-E	1
DS-8	RECEIPT 102/108/116	CEILING CASSETTE	16.6 / 13.5	17	706	0.54	15.0	208	1	---	R-410A	DAIKIN	PLFY-P24NBMU-E	1
DS-9	TRAINING/CONF 107	CEILING CASSETTE	28.0 / 20.4	25.2	1059	1.34	15.0	208	1	---	R-410A	DAIKIN	PLFY-P36NBMU-E	1
DS-10	IT & ELEC 109	WALL MOUNTED	6.2 / 6.2	5.6	413	0.38	15.0	208	1	---	R-410A	DAIKIN	PKFY-P08NHMU-E2	1, 2

1. PROVIDE PAC-YT53CRAU LOCAL CONTROLLER
2. PROVIDE CONDENSATE PUMP

**HEAT RECOVERY UNIT**

MARK	CAPACITY DATA			CONDENSER FAN		COMPRESSOR DATA			REFRIGERANT	ELECTRICAL DATA				EER	MANUFACTURER	MODEL	REMARKS
	COOLING MBH	HEATING MBH	AMBIENT TEMP. (°F)	NO.	HP (EA)	NO.	HP (EA)	TYPE		MCA	MOCP	VOLTS	Ø				
HRU-1	168	188.0°	105.0°	2	---	2	---	SCROLL	R-10A	20/15	25/15	460	3	12.1/12.9	DAIKIN	PURY-P168YSKMU-A	1, 2, 3

1. PROVIDE TWINNING KIT
2. PROVIDE MAIN BC CONTROLLER (BC-1) EQUAL TO MITSUBISHI CMB-P1010
3. PROVIDE LOW AMBIENT KIT

**EXHAUST FAN**

MARK	SERVES	TYPE	DRIVE	FAN DATA			MOTOR DATA			SONE LEVEL	TOTAL UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
				CFM	ESP	RPM	HP	VOLTS	Ø					
EF-1	SEE PLANS	DOWN BLAST	BELT	225	0.25	1,344	1/6	120	1	8	30	COOK	70ACEB	1, 2

1. PROVIDE ELECTRICAL DISCONNECT SWITCH
2. PROVIDE MANUFACTURERS ROOF CURB

**AIR DEVICES**

MARK	TYPE	DESCRIPTION	SIZE	MAX NOISE	MANUFACTURER	MODEL
A	SUPPLY	SQUARE PLAQUE	12x12	30	TITUS	OMNI
B	EXHAUST	EGGCRATE	12x12	30	TITUS	50F

**UNIT HEATER - ELECTRIC**

MARK	LOCATION	HEATING CAPACITY		CFM	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
		KW	MBH		RLA	VOLTS	Ø			
EUH-1	MECH. RM.	3	10.23	350	14.5	208	3	QMARK	MUH0381	1, 2, 3

1. PROVIDE UNIT MOUNTED ELECTRICAL DISCONNECT
2. PROVIDE REMOTE THERMOSTAT
3. PROVIDE WALL BRACKET

**RADIANT HEATER - ELECTRIC**

MARK	LOCATION	HEATING CAPACITY		ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
		WATTS	MBH	RLA	VOLTS	Ø			
RH-1	WOMEN 112	250	852	2.0	120	1	QMARK	CP251	1
RH-2	MEN 113	250	852	2.0	120	1	QMARK	CP251	1

1. PROVIDE REMOTE THERMOSTAT




**CONSTRUCTION DOCUMENTS**

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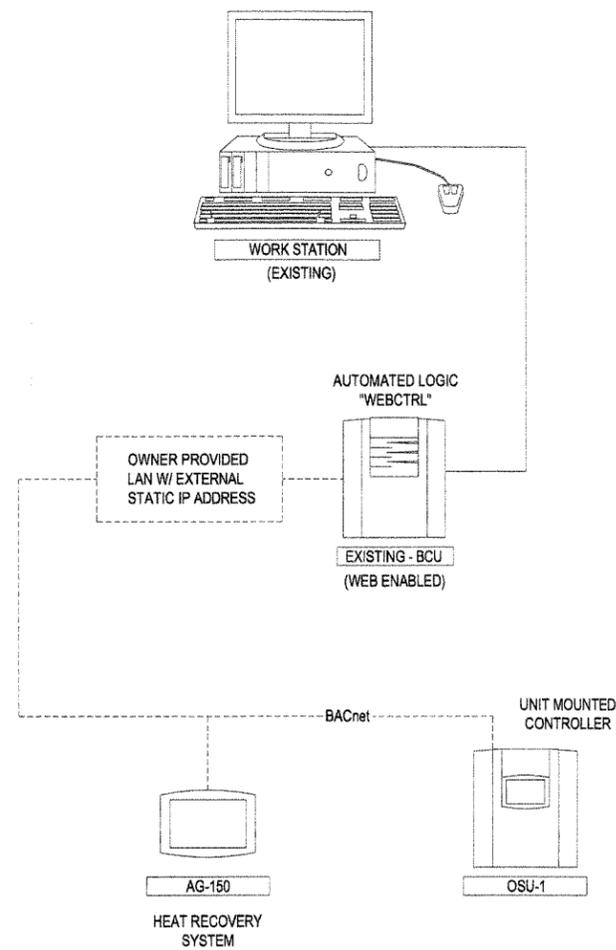


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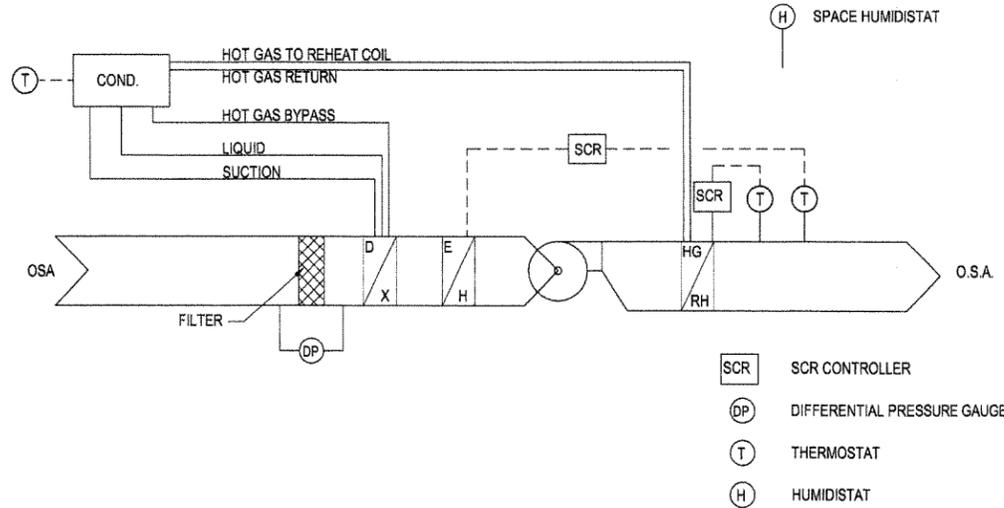
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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>HVAC SCHEDULES</b>	
Drawing Number <b>M-601</b> 67 of 78	

Description  
Date  
No.



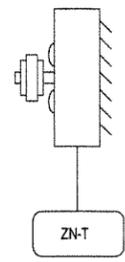
**1 CONTROL DIAGRAM**  
NO SCALE



**SEQUENCE OF OPERATION**

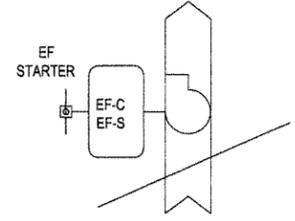
- I. OUTSIDE AIR UNIT
  - A. THE FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED PERIODS.
- II. OSA TEMP GREATER THAN, OR EQUAL TO, 65°F (ADJUSTABLE)
  - A. CONDENSING UNIT IS ENERGIZED
  - B. LEAVING AIR TEMP. IS MAINTAINED AT 72°F (ADJUSTABLE) MODULATING THE HOT GAS REHEAT COIL SOLENOID VALVE.
  - C. UNIT ELECTRIC HEATER IS LOCKED OUT.
- III. OSA TEMP < 55°F (ADJUSTABLE)
  - A. CONDENSING UNIT IS LOCKED OUT
  - B. ELECTRIC HEATER IS STAGED TO ACHIEVE LEAVING AIR TEMP. OF 70°F (ADJUSTABLE).
- IV. OSA DEWPOINT 60°F OR GREATER-DEHUMIDIFICATION CYCLE.
  - A. CONDENSING UNIT ENERGIZED
  - B. REHEAT COILS MODULATES TO MAINTAIN 70°F (ADJUSTABLE)

**2 OUTSIDE AIR UNIT CONTROL SCHEMATIC**  
NO SCALE



**SEQUENCE OF OPERATION: UNIT HEATER**  
HEATING: THE FAN AND THE HEATING COIL SHALL BE ENERGIZED AS NEEDED TO MAINTAIN ZONE HEATING TEMPERATURE SETPOINT (55°F, ADJ).

**3 UNIT HEATER SCHEMATIC**  
NO SCALE



**SEQUENCE OF OPERATION: GENERAL EXHAUST FANS**  
THE FAN SHALL BE CONTROLLED BY A TIME OF DAY SCHEDULE.

**4 GENERAL EXHAUST FAN SCHEMATIC**  
NO SCALE

No.	Date	Description



CONSTRUCTION DOCUMENTS

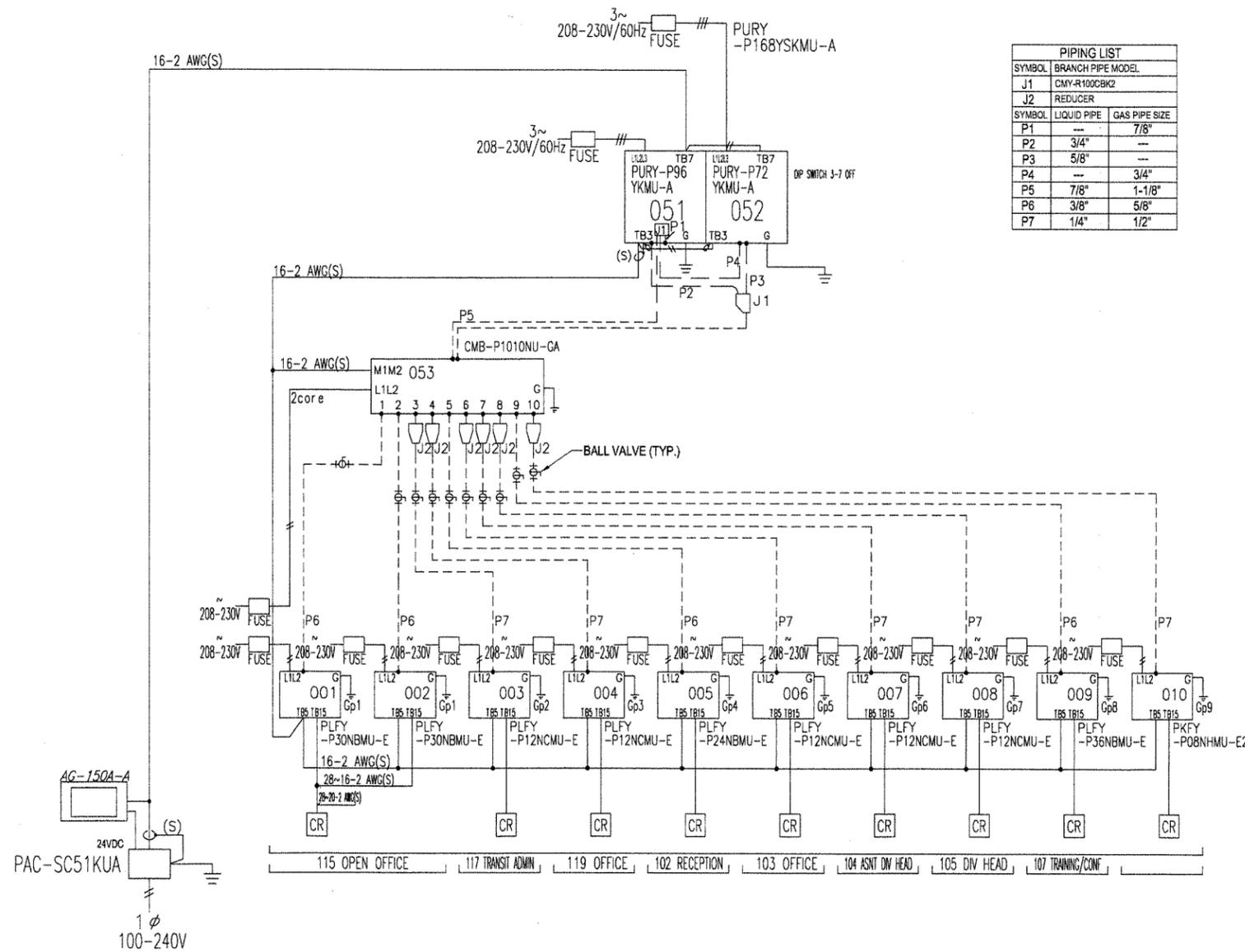
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Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	HVAC CONTOLS		
Drawing Number	M-701		
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PIPING LIST		
SYMBOL	BRANCH PIPE MODEL	
J1	CMY-R100CBK2	
J2	REDUCER	
SYMBOL	LIQUID PIPE	GAS PIPE SIZE
P1	---	7/8"
P2	3/4"	---
P3	5/8"	---
P4	---	3/4"
P5	7/8"	1-1/8"
P6	3/8"	5/8"
P7	1/4"	1/2"

1 HVAC PIPING DIAGRAM  
NO SCALE



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Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title			
HVAC CONTOLS			
Drawing Number			
M-702			
69 of 78			

## ELECTRICAL SYMBOLS

### RECEPTACLES (MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R) MOUNT 4" ABOVE COUNTER TOP, SINK, OR BACKSPASH (IF PRESENT).
- SINGLE RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- FLOOR RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- SINGLE RECEPTACLE OUTLET (20A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-20R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-30R)
- SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET; NUMBER CORRESPONDS TO THE SPECIAL-PURPOSE RECEPTACLE SCHEDULE.
- DUPLEX RECEPTACLE MOUNTED IN CEILING (20A, 125V, 2 POLE, 3 WIRE GROUNDING TYPE NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE GROUNDING TYPE NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES FLOOR MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE GROUNDING TYPE NEMA 5-20R)

### LIGHT FIXTURES

- LIGHT FIXTURE, FLUORESCENT, CEILING MOUNTED.
- LIGHT FIXTURE, FLUORESCENT, CEILING MOUNTED ON EMERGENCY CIRCUIT.
- LIGHT FIXTURE, FLUORESCENT, CEILING MOUNTED WITH EMERGENCY SELF-CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, FLUORESCENT, WALL MOUNTED.
- LIGHT FIXTURE, FLUORESCENT, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED.
- LIGHT FIXTURE, INCANDESCENT, FLUORESCENT OR H.I.D., CEILING MOUNTED. (REFER TO FIXTURE SCHEDULE FOR TYPE).
- LIGHT FIXTURE, INCANDESCENT, FLUORESCENT OR H.I.D., CEILING MOUNTED WITH EMERGENCY SELF-CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED. (REFER TO FIXTURE SCHEDULE FOR TYPE).
- LIGHT FIXTURE, INCANDESCENT, FLUORESCENT OR H.I.D., WALL MOUNTED. (REFER TO FIXTURE SCHEDULE FOR TYPE).
- EMERGENCY BATTERY POWERED LIGHTING UNIT, WITH SELF CONTAINED BATTERY, CHARGER, ETC. (REFER TO FIXTURE SCHEDULE FOR BATTERY TYPE, VOLTAGE, LAMP TYPE, WATTAGE, ETC.) TRIANGLES DEPICT QUANTITY AND AIMING OF LAMP HEADS.
- EXIT SIGN, LIGHTED, CEILING MOUNTED. SHADED AREA INDICATES FACE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- EXIT SIGN, LIGHTED, WALL MOUNTED AT 7'-0" AFF UNLESS INDICATED OTHERWISE. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- FLOOD LIGHT. ARROW INDICATES DIRECTION OF BEAM.
- DOCK LIGHT

### LIGHT FIXTURE IDENTIFICATION

- LOWER CASE LETTER BESIDE FIXTURE DENOTES SWITCH CONTROL (WHERE APPLICABLE)
- UPPER CASE LETTER BESIDE EACH FIXTURE DENOTES FIXTURE TYPE.

### SWITCHGEAR

- MAGNETIC MOTOR STARTER (FURNISHED BY DIVISION 15, UNLESS NOTED OTHERWISE)
- ELECTRICAL PANELBOARD, FLUSH MOUNTED
- ELECTRICAL PANELBOARD, SURFACE MOUNTED
- SAFETY SWITCH; 30A CURRENT RATING UNLESS NOTED OTHERWISE. +4'-0" TO HANDLE
- FUSIBLE SAFETY SWITCH; CURRENT RATING AND FUSE RATING NOTED. +4'-0" TO HANDLE.
- CIRCUIT BREAKER IN WALL MOUNTED ENCLOSURE
- ELECTRICAL TRANSFORMER. FLOOR MOUNTED UNLESS INDICATED OTHERWISE.

## ELECTRICAL SYMBOLS

### SWITCHES (MOUNTED AT 48", UNLESS INDICATED OTHERWISE)

- S<sub>1</sub> SWITCH, SINGLE POLE, 20A; LOWER CASE LETTER INDICATES DEVICES CONTROLLED.
- S<sub>2</sub> SWITCH, DOUBLE POLE, 20A SWITCH.
- S<sub>3</sub> 3-WAY, 20A SWITCH.
- S<sub>4</sub> 4-WAY, 20A SWITCH.
- S<sub>M</sub> SINGLE POLE MANUAL MOTOR STARTING SWITCH, WITH THERMAL OVERLOAD ELEMENT AND PROVISIONS FOR LOCKING OPEN
- S<sub>D</sub> SWITCH, DIMMING (ON FLUORESCENT FIXTURES, COORDINATE WITH BALLAST MANUFACTURER)
- S<sub>L</sub>V LOW VOLTAGE WITH MOMENTARY CONTACTS SWITCH.
- S<sub>O</sub> OCCUPANCY SENSOR, COMBINATION ULTRASONIC SWITCH AND PASSIVE INFRARED
- OS OCCUPANCY SENSOR, CEILING MOUNTED, COMBINATION ULTRASONIC AND PASSIVE INFRARED
- +6" AFF MULTIPLE DEVICES LOCATED SIDE BY SIDE (OR ABOVE AND BELOW, IF DIFFERENT ELEVATIONS ARE SHOWN) AT THE LOCATION INDICATED).

### SINGLE LINE

- CIRCUIT BREAKER, TRIP RATING AS INDICATED, 3 POLE OR AS INDICATED.
- 60A DISCONNECT SWITCH OR LOAD INTERRUPTER SWITCH, CURRENT RATING AS INDICATED, 3 POLE OR AS INDICATED.
- GFI SWITCH WITH GROUND FAULT INTERRUPTER
- F30 FRS FUSE, CURRENT RATING AND TYPE WHEN INDICATED.
- TRANSFORMER, DESCRIPTION AS NOTED OR PER SCHEDULE
- CURRENT TRANSFORMER
- (WH) WATT-HOUR METER
- (G) GENERATOR

### SECURITY (SEE DETAIL 2/E-502)

- M MAGNETIC ALARM SWITCH
- D DURESS ALARM SWITCH
- MD MOTION DETECTOR
- CD CAPACITIVE DETECTOR
- CCTV CAMERA LOCATION, CEILING MOUNTED UNLESS INDICATED OTHERWISE
- KS KEYPAD ACCESS ALARM OVERRIDE CONTROL
- EGRESS PUSH-BUTTON
- CARD READER. BACK BOX AT 48" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING
- E ELECTRIC STRIKE AND DOOR POSITION SWITCH. 3/4" CONDUIT STUBBED FROM DOOR FRAME TO ABOVE ACCESSIBLE CEILING.

## ELECTRICAL SYMBOLS

### TELEPHONE/COMMUNICATIONS/DATA (OUTLETS SHALL BE MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- TELEPHONE OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH COMM CABLING TO IT ROOM 109. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF; P - PAY TELEPHONE MOUNTED 48" AFF TO COIN SLOT.
- TELEPHONE FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH COMM CABLING TO IT ROOM 109.
- DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH COMM CABLING TO IT ROOM 109. NUMBER INDICATES QUANTITY OF DATA JACKS PER OUTLET BOX. SEE DETAIL 5/E-501.
- DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH COMM CABLING TO IT ROOM 109. NUMBER INDICATES QUANTITY OF DATA JACKS PER OUTLET BOX.
- 1D 1V COMBINATION VOICE/DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH COMM CABLING TO IT ROOM 109. NUMBER PRECEDING "D" INDICATES QUANTITY OF DATA JACKS PER OUTLET BOX. NUMBER PRECEDING "V" INDICATES QUANTITY OF VOICE JACKS PER OUTLET BOX.
- COMBINATION VOICE/DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE WITH COMM CABLING TO IT ROOM 109. SEE SUBSCRIPT INFO ABOVE.
- 4'-0" HIGH x 3/4" THICK VARNISHED PLYWOOD BACKBOARD. SEE PLANS FOR LENGTH.

### MISCELLANEOUS

- JUNCTION BOX. WALL MOUNT AS INDICATED. FINAL CONNECTION TO BE MADE BY ELECTRICAL CONTRACTOR.
- CLOCK OUTLET. WALL MOUNTED 7'-6" AFF
- MOTOR
- 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN
- TV CABLE TELEVISION OUTLET BOX MOUNTED 18" AFF WITH CONDUIT STUBBED ABOVE CEILING. PROVIDE PULL CORD.
- CONDUIT RUN, EXPOSED
- CONDUIT RUN, CONCEALED
- FLEXIBLE CONDUIT

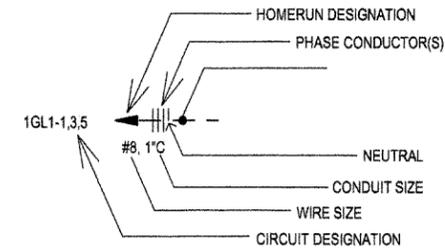
### ABBREVIATIONS:

- AFF = ABOVE FINISHED FLOOR
- AFL = ABOVE FINISHED LANDING
- BLDG = BUILDING
- EMT = ELECTRICAL METALLIC TUBING
- GFI = GROUND FAULT INTERRUPTER
- IG = ISOLATED GROUND
- LIU = LIGHT INTERFACE UNIT
- PNL = PANEL
- RMC = RIGID METAL CONDUIT
- UIO = UNLESS INDICATED OTHERWISE
- WP = WEATHERPROOF CONSTRUCTION
- OF/OI = OWNER FURNISHED / OWNER INSTALLED
- CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
- XFMR = TRANSFORMER

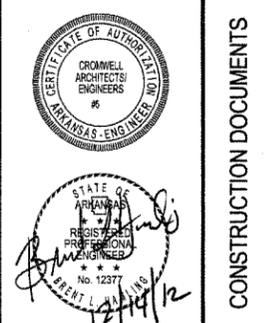
### GENERAL SYMBOLS NOTES:

1. ALL SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.
3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: "4 SETS OF 3#500, #250N, #1/0G, 4" MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 kCM CONDUCTORS, ONE 250 kCM NEUTRAL AND ONE #1/0 GROUND.

### CIRCUIT INFORMATION/EQUIPMENT GROUND (EQUIPMENT GROUND SHALL BE PROVIDED IN ALL CIRCUITS AND FEEDERS, WHETHER SHOWN OR NOT)



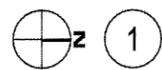
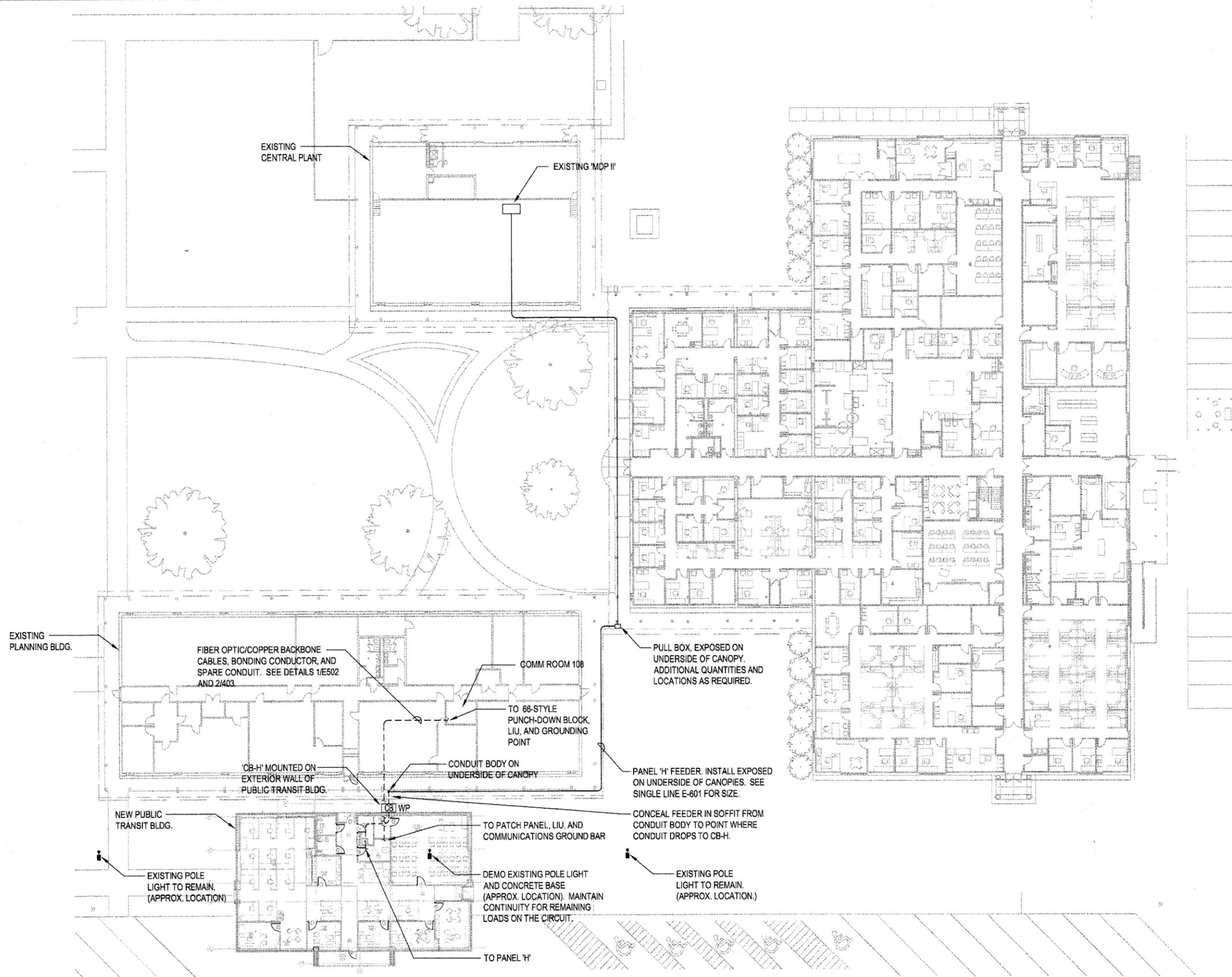
- CIRCUIT DESIGNATION INDICATES PANELBOARD AND CIRCUIT(S) TO WHICH HOMERUN IS CONNECTED.
- WIRE SIZE SHALL BE NO. 12, UNLESS INDICATED OTHERWISE.
- CONDUIT SIZE SHALL BE MINIMUM ALLOWED BY SPECIFICATIONS FOR NO. 12 SIZE WIRE, 3/4" FOR NO. 10, UNLESS INDICATED OTHERWISE.
- CIRCUIT INFORMATION PROVIDED AT THE HOMERUN SYMBOL SHALL APPLY THE ENTIRE LENGTH OF THE CIRCUIT (FROM PANELBOARD TO LAST LOAD).
- WHEN NO PHASE CONDUCTOR OR NEUTRAL IS INDICATED AT THE HOMERUN SYMBOL, PROVIDE ONE PHASE CONDUCTOR AND ONE NEUTRAL, BOTH NO. 12.
- SWITCHING CONDUCTORS, CONDUCTORS FOR NIGHT LIGHT CIRCUITS (UNSWITCHED), ETC. ARE NOT SHOWN, BUT SHALL BE PROVIDED AS NECESSARY.
- WIRE SIZE INDICATED ON THESE DOCUMENTS AS INDICATED BY "NO." OR "F" HAS THE SAME MEANING AS "AWG" (N.E.C. NOMENCLATURE). (i.e. "NO. 12" OR "#12" MEANS "12AWG" IN N.E.C. NOMENCLATURE.)



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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>ELECTRICAL LEGEND</b>	
Drawing Number <b>E-001</b>	
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**1 ELECTRICAL SITE PLAN**

1" = 20' - 0"  
 0 10' 20' 40'  
 SCALE: 1"=20'

No.	Date	Description



CONSTRUCTION DOCUMENTS

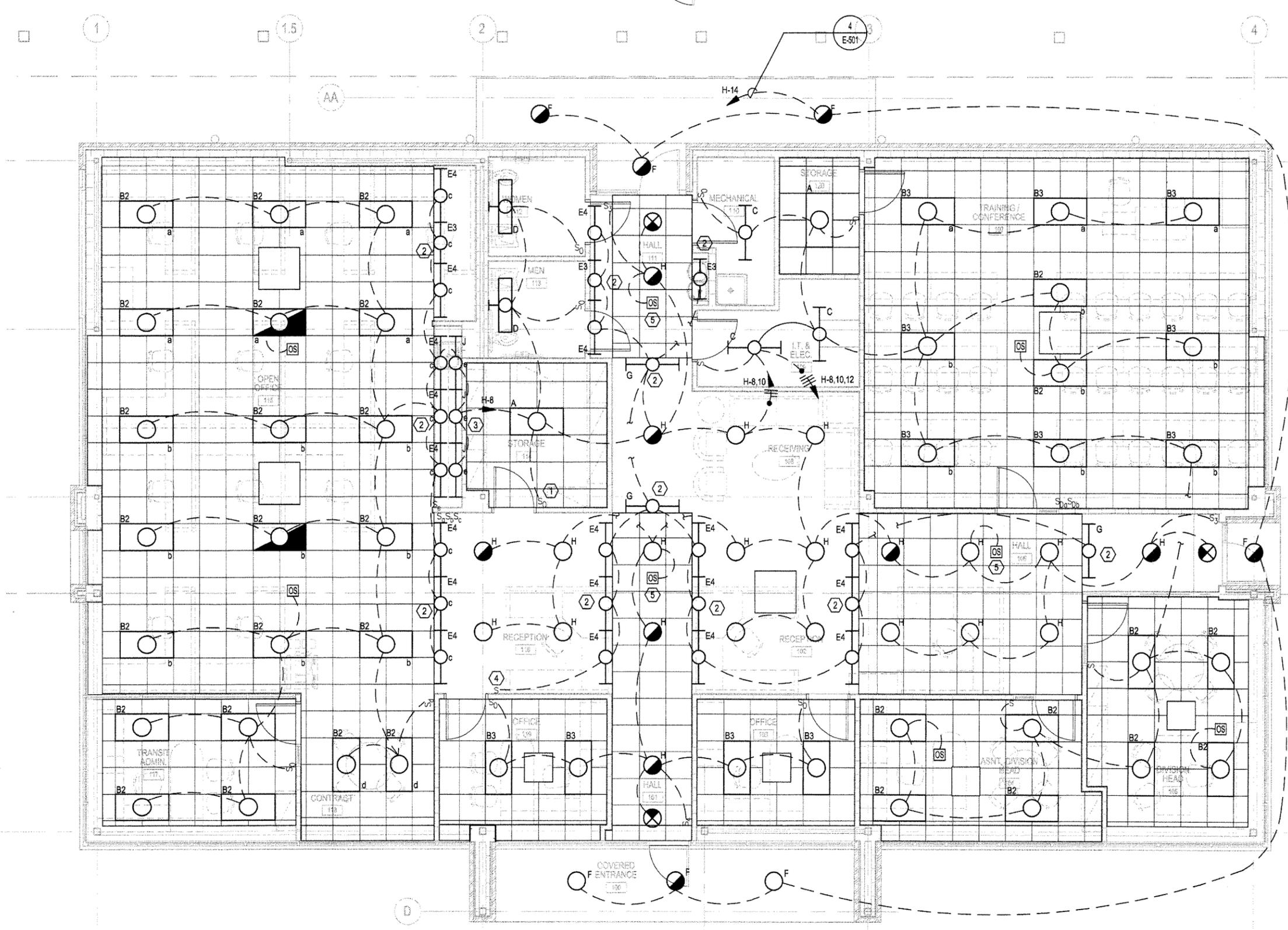
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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>ELECTRICAL SITE PLAN</b>	
Drawing Number <b>ES101</b>	
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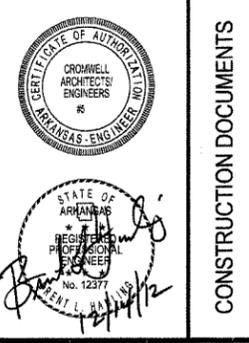
**GENERAL NOTES:**

1. THE QUANTITY, LOCATIONS, AND ORIENTATION OF OCCUPANCY SENSORS SHALL BE ADJUSTED AS NECESSARY FOR FULL ROOM COVERAGE (HAND MOTION) BASED ON THE BEAM PATTERN OF THE ACTUAL SENSORS INSTALLED. PROVIDE ADDITIONAL SENSORS AS REQUIRED. THE DISTANCE BETWEEN SENSORS AND HVAC REGISTERS SHALL BE NO LESS THAN THE MINIMUM DISTANCE RECOMMENDED BY THE SENSOR MANUFACTURER.
2. WHERE AN OCCUPANCY SENSOR IS SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING SHOWN IN THE SPACE UNLESS INDICATED OTHERWISE. WHERE MULTIPLE SENSORS ARE SHOWN, THEY SHALL EACH CONTROL ALL LIGHTING SHOWN IN THE SPACE, UNLESS INDICATED OTHERWISE.
3. WHERE A STANDARD TOGGLE SWITCH IS SHOWN IN A ROOM WITH AN OCCUPANCY SENSOR, THE SWITCH SHALL ALLOW THE LIGHTS TO BE TURNED OFF MANUALLY. THE SWITCH SHALL NOT BYPASS THE SENSOR.
4. MAKE ALL FINAL SENSITIVITY AND RANGE ADJUSTMENTS ON OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. "DELAY-OFF" TIME SHALL BE SET TO 20 MINUTES UNLESS OTHERWISE INDICATED.

**KEYED NOTES:**

- 1 SURFACE MOUNT LIGHT SWITCH
- 2 INSTALL FIXTURE TYPES "G", "E3", AND "E4" IN COVE ABOVE GYP. CEILING.
- 3 INSTALL FIXTURE TYPE "J" ON UNDERSIDE OF UPPER CABINETS.
- 4 SWITCH SHALL CONTROL ONLY FIXTURE TYPES "G", "E3", AND "E4".
- 5 ANY ONE OF THE THREE SENSOR IN THE HALLS, SHALL CONTROL ALL FIXTURE TYPES "E3", "E4", "G", AND "H" ON CIRCUIT H-10.

No.	Date	Description



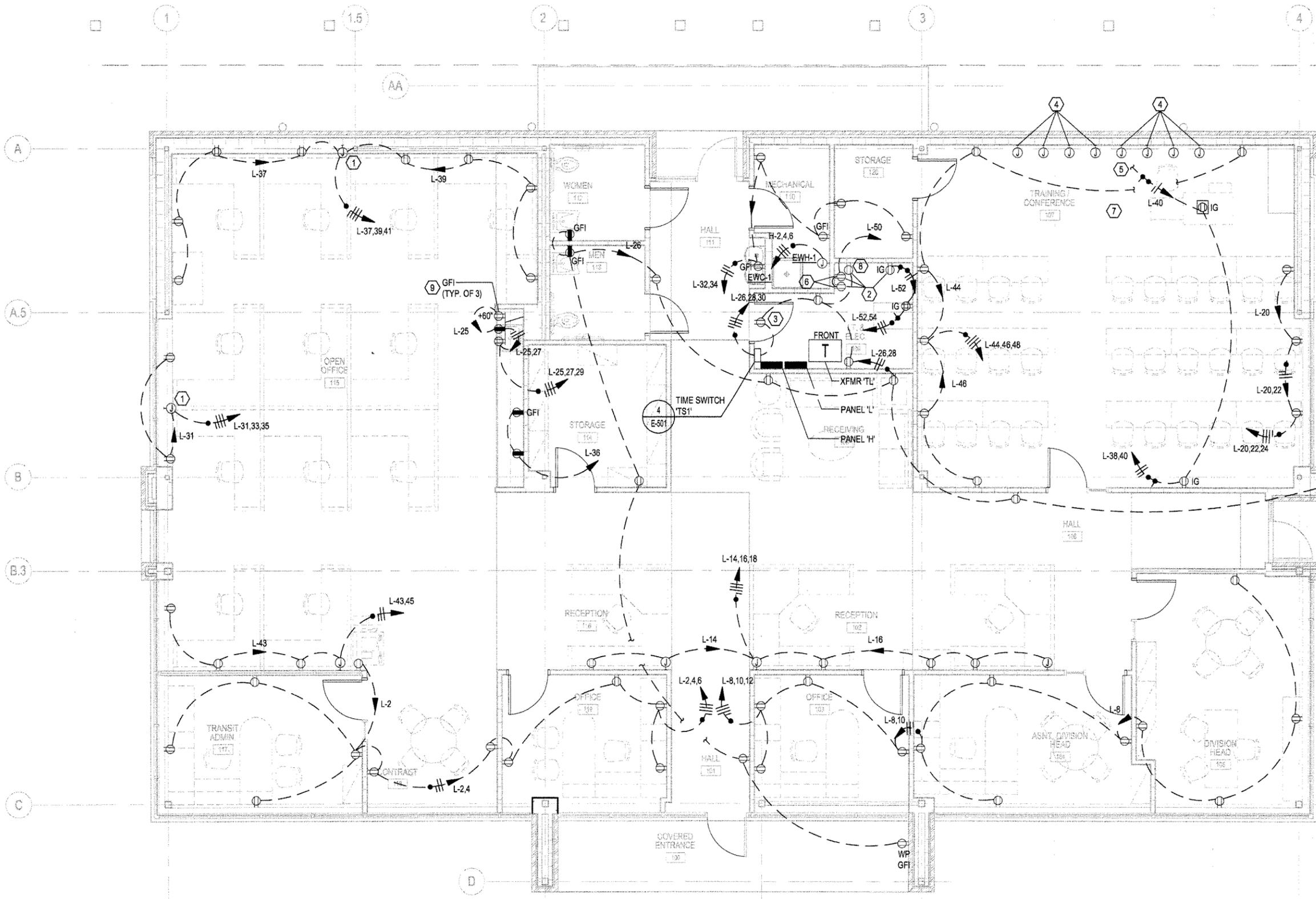
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Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	<b>LIGHTING PLAN</b>		
Drawing Number	<b>EL101</b>		
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**1 LIGHTING PLAN**  
 1/4" = 1' - 0"  
 SCALE: 1/4" = 1'-0"



- KEYED NOTES:**
- 1 J-BOX AT 6" AFF FOR SYSTEMS FURNITURE POWER CONNECTION.
  - 2 SURFACE MOUNT RECEPTACLE ON PLYWOOD BACKBOARD.
  - 3 RECEPTACLE FOR DS-10 CONDENSATE PUMP. COORDINATE LOCATION WITH DIVISION 23.
  - 4 4" SQUARE EMPTY J-BOX AT 48" AFF CONCEALED BEHIND GYP BOARD WITH 1-1/4" CONDUIT STUBBED ABOVE CEILING FOR FUTURE WALL-MOUNTED AV EQUIPMENT. SEE ELEVATION 5/A-701. COORDINATE WITH OWNER'S AV VENDOR PRIOR TO ROUGH-IN. J-BOXES TO BE USED INITIALLY SHALL BE MADE ACCESSIBLE.
  - 5 EXTEND CIRCUIT TO J-BOX(ES) ON WEST WALL AS REQUIRED FOR AV EQUIPMENT. INSTALL DUPLEX RECEPTACLE(S). COORDINATE WITH OWNER'S AV VENDOR PRIOR TO ROUGH-IN.
  - 6 RECEPTACLES FOR CARD ACCESS CONTROLLER AND CONVERTER. COORDINATE MOUNTING HEIGHT WITH DIVISION CARD ACCESS SYSTEM INSTALLER.
  - 7 REFER TO DETAIL 3/E-502 FOR AV SCHEMATIC.
  - 8 RECEPTACLE FOR HVAC CONTROLLER. COORDINATE MOUNTING HEIGHT WITH DIVISION 23.
  - 9 COORDINATE WITH ELEVATION 1/A-701.


**1 POWER PLAN**  
 1/4" = 1' - 0"  
 SCALE: 1/4" = 1'-0"

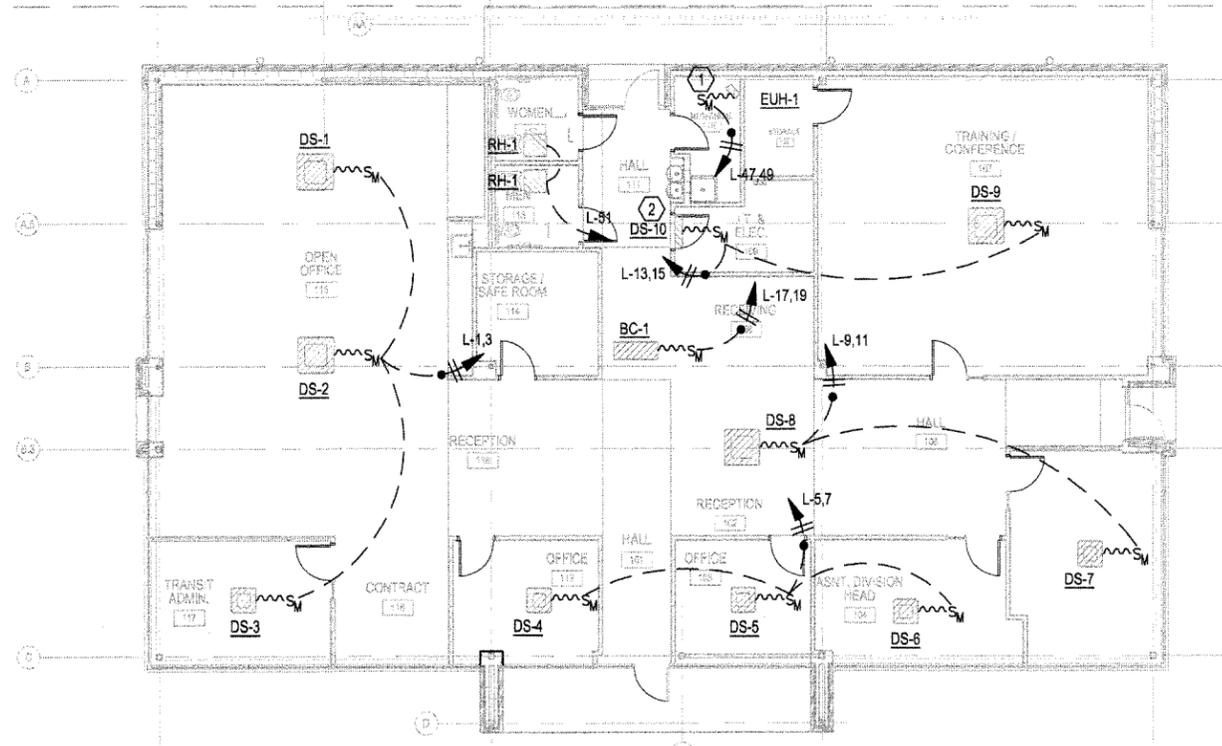
No.	Date	Description

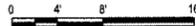
  
  
 [Signature]  
 GREAT L. PLAINS

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Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	<b>POWER PLAN</b>		
Drawing Number	<b>EP101</b>		
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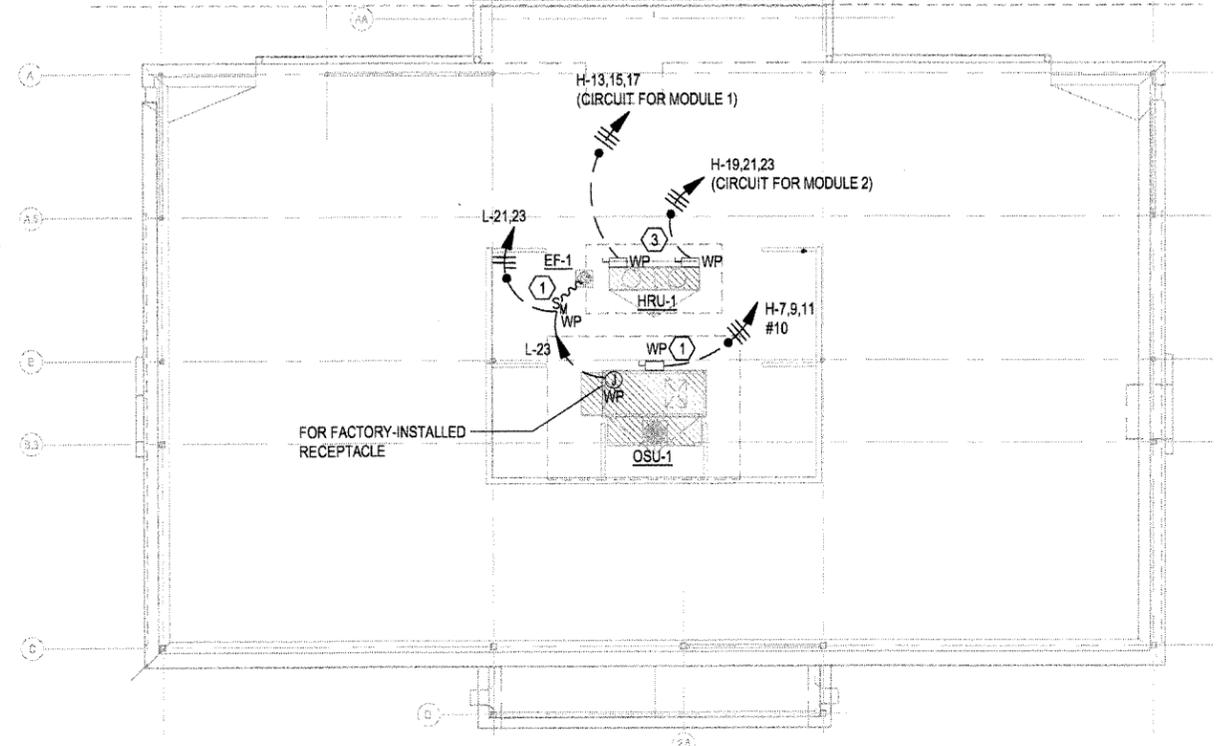

1
**HVAC POWER PLAN**  
 1/8" = 1'-0"  
  
 SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**

- COORDINATE EXACT LOCATIONS OF ELECTRICAL CONNECTIONS FOR HVAC EQUIPMENT WITH EQUIPMENT MANUFACTURER.

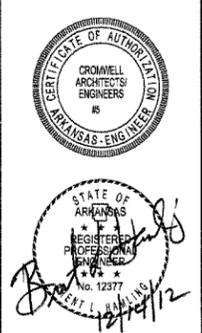
**KEYED NOTES:**

- CONNECT TO FACTORY-MOUNTED DISCONNECT.
- SEE EP101 FOR DS-10 CONDENSATE PUMP CIRCUIT.
- VERIFY ARRANGEMENT OF MODULE 1 AND MODULE 2. BREAKER SIZES DIFFER.




2
**HVAC ROOF POWER PLAN**  
 1/8" = 1'-0"  
  
 SCALE: 1/8" = 1'-0"

No.	Date	Description



CONSTRUCTION DOCUMENTS

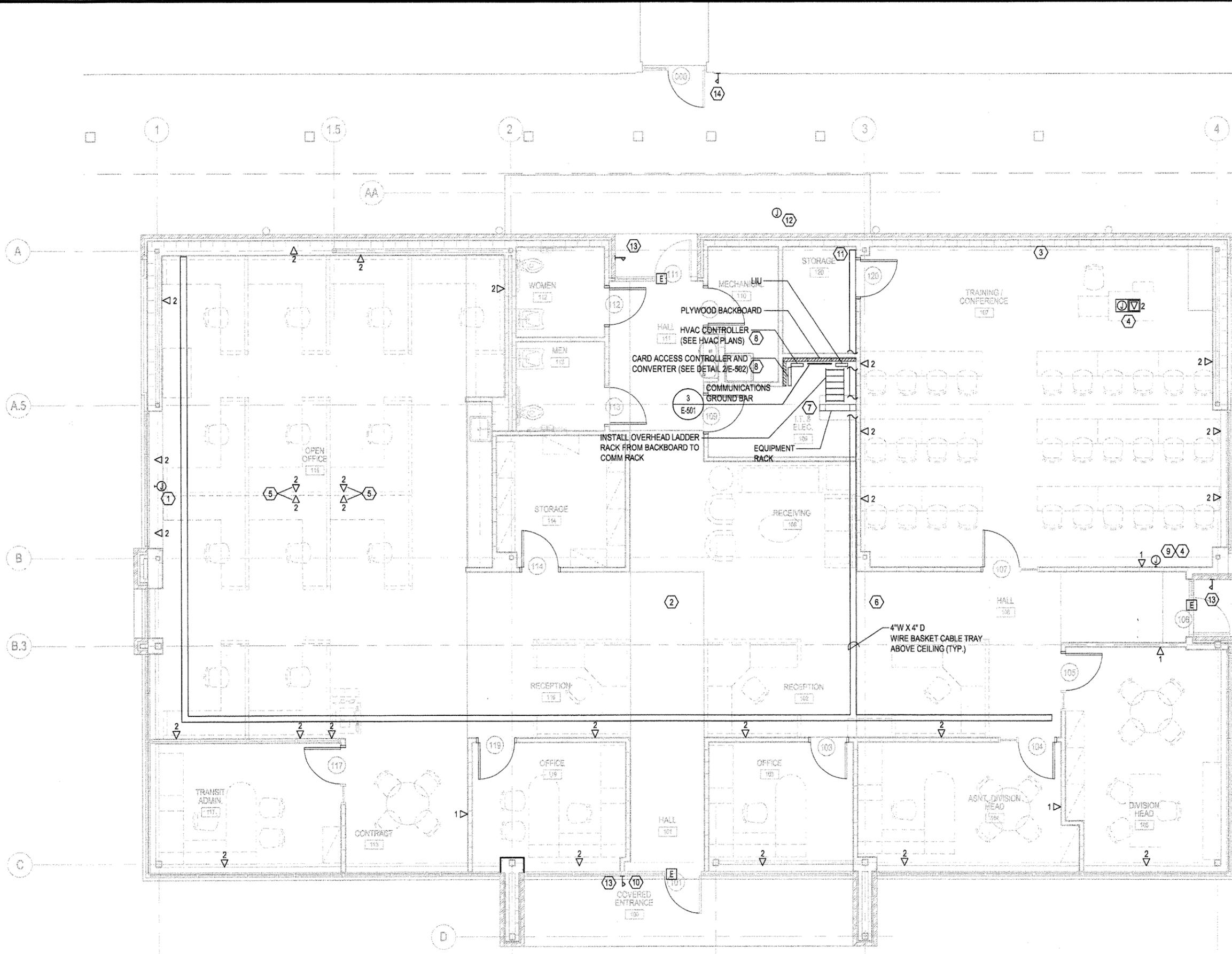
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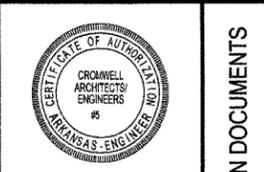
Issue Date	14-DECEMBER-2012	Project Number	2012-102
Drawing Title	HVAC POWER PLANS		
Drawing Number	EP102		
74 of 78			



GENERAL NOTES:  
1. SEE DETAIL 1/E-502 FOR TELEPHONE/DATA SCHEMATIC.

KEYED NOTES:

- 1 J-BOX AT 8" AFF FOR SYSTEMS FURNITURE COMM CABLING. PROVIDE TWO 1 1/2" CONDUITS STUBBED ABOVE CEILING.
- 2 TERMINATE 3 COMM CABLES WITH MODULAR PLUGS ABOVE ACCESSIBLE CEILING WITH 10' COILS (FOR 2 OF/OI CAMERAS AND 1 OF/OI WIRELESS ACCESS POINT).
- 3 SEE SHEET EP101 FOR BOXES AND CONDUIT IN THIS WALL TO BE USED FOR AV EQUIPMENT.
- 4 REFER TO DETAIL 3/E-502 FOR AV SCHEMATIC.
- 5 TERMINATE JACKS IN FURNITURE. COORDINATE WITH OWNER TO INSTALL AND TEST CABLES AFTER FURNITURE INSTALLATION.
- 6 TERMINATE 1 COMM CABLE WITH MODULAR PLUG ABOVE ACCESSIBLE CEILING WITH 10' COIL (FOR OF/OI CAMERA).
- 7 COORDINATE EXACT LOCATION OF RACK WITH OWNER TO PROVIDE FRONT AND REAR CLEARANCE FOR OF/OI RACK-MOUNT SWITCHES.
- 8 IN LIEU OF A WALL OUTLET, INSTALL A PATCH CORD FOR CONTROLLER.
- 9 4-GANG J-BOX FOR AV. STUB 1-1/4" EMT ABOVE CEILING.
- 10 INSTALL CARD READER IN MULLION.
- 11 SEE ES101 FOR COMM CABLING AND SPARE CONDUITS TO BE ROUTED FROM ADJACENT BUILDING TO THIS POINT.
- 12 TERMINATE 1 COMM CABLE WITH MODULAR PLUG. INSTALL IN FLUSH-MOUNT BOX. (FOR OF/OI CAMERA). COORDINATE BOX REQUIREMENT WITH OWNER'S CAMERA VENDOR.
- 13 PROVIDE MOTION DETECTOR, MAGNETIC BALANCE SWITCH, EMERGENCY LOCK RELEASE KEY SWITCH, AND OTHER ACCESSORIES AS REQUIRED FOR ACCESS CONTROL SYSTEM. CONNECT COMPONENTS TO EXISTING SYSTEM IN COMM ROOM 108 OF PLANNING BUILDING. OF/OI OR CF/OI TO BE DETERMINED.
- 14 REWORK EXISTING CARD READER AND ACCESSORIES TO OPERATE WITH REPLACEMENT DOOR.



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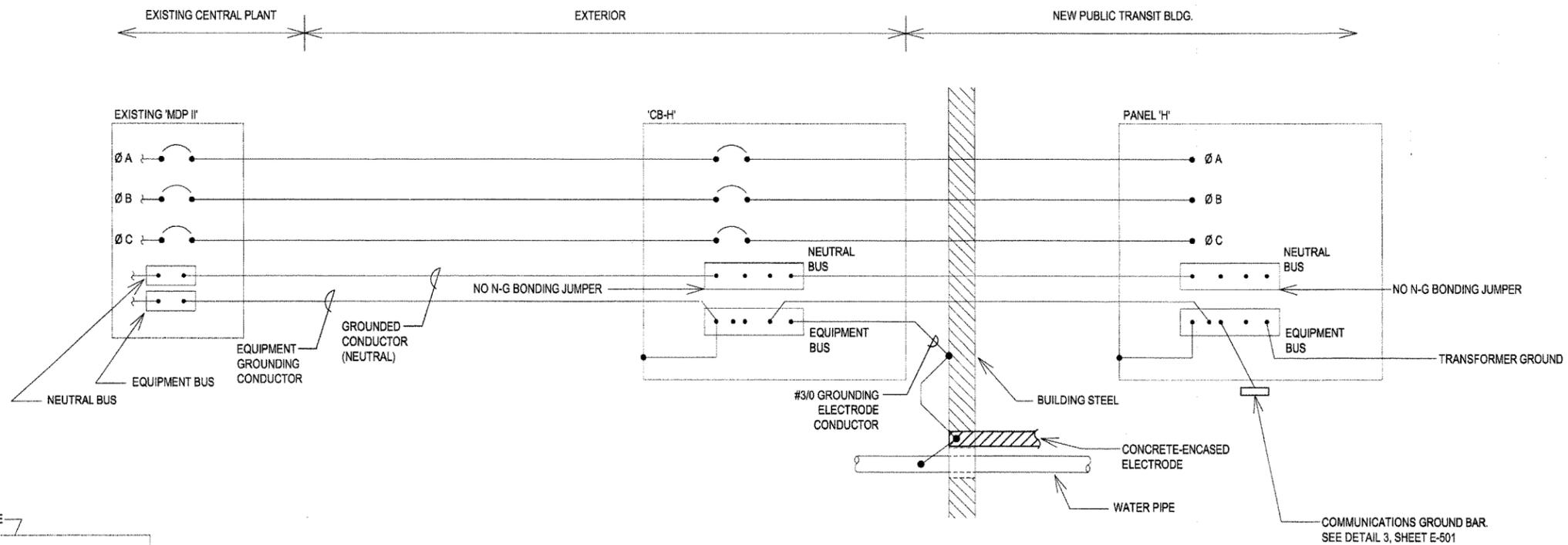
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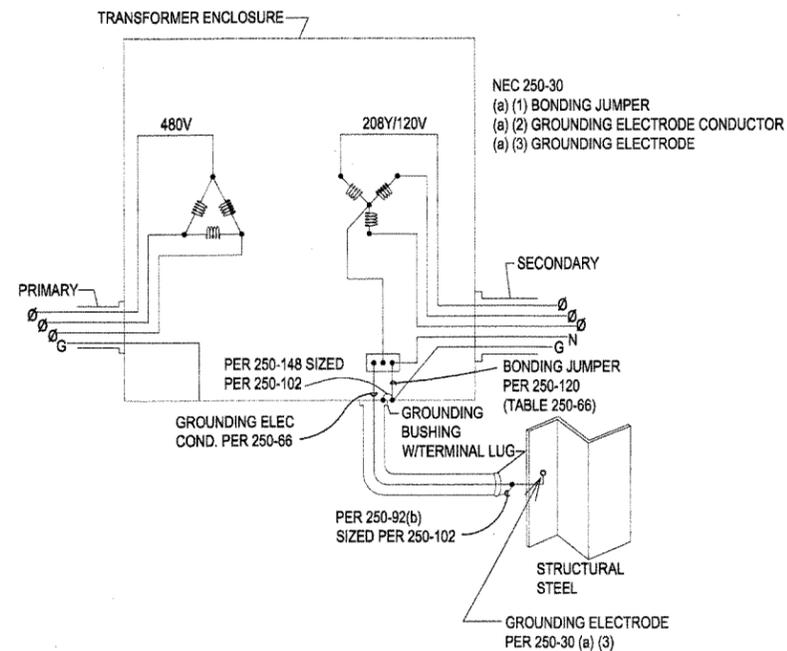
Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>SYSTEMS PLAN</b>	
Drawing Number <b>ET101</b> 75 of 78	

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

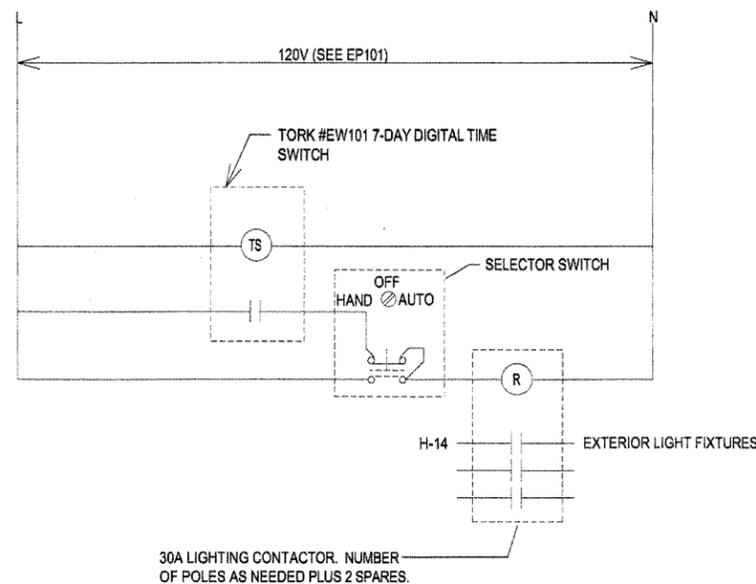
CONSTRUCTION DOCUMENTS



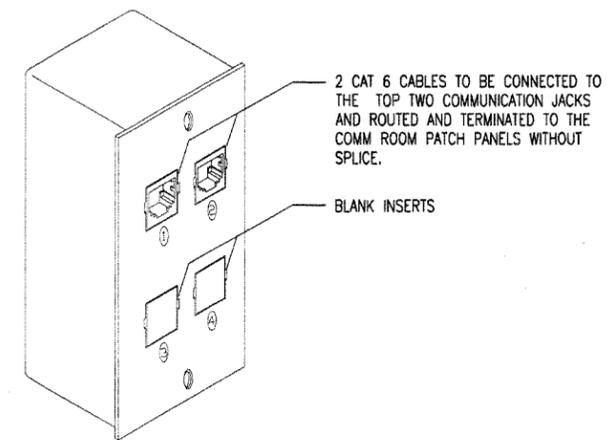
**1 OUTSIDE FEEDER GROUNDING**  
NOT TO SCALE



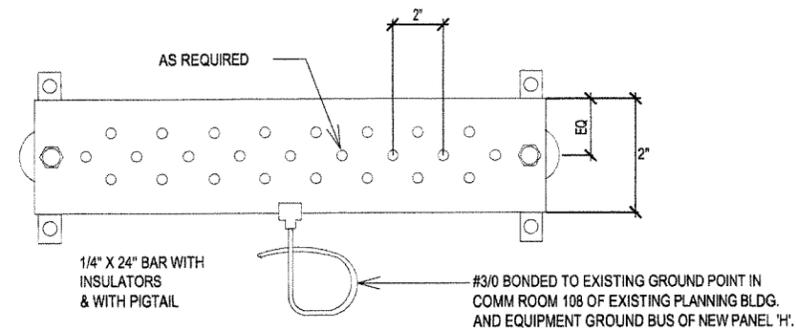
**2 TYPICAL TRANSFORMER GROUNDING**  
NOT TO SCALE



**4 TIME SWITCH 'TS' SCHEMATIC DIAGRAM**  
NOT TO SCALE



**5 TYPICAL TELEPHONE/DATA OUTLET**  
NOT TO SCALE



**3 COMMUNICATIONS GROUND BAR**  
NOT TO SCALE

No.	Date	Description



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CONSTRUCTION DOCUMENTS

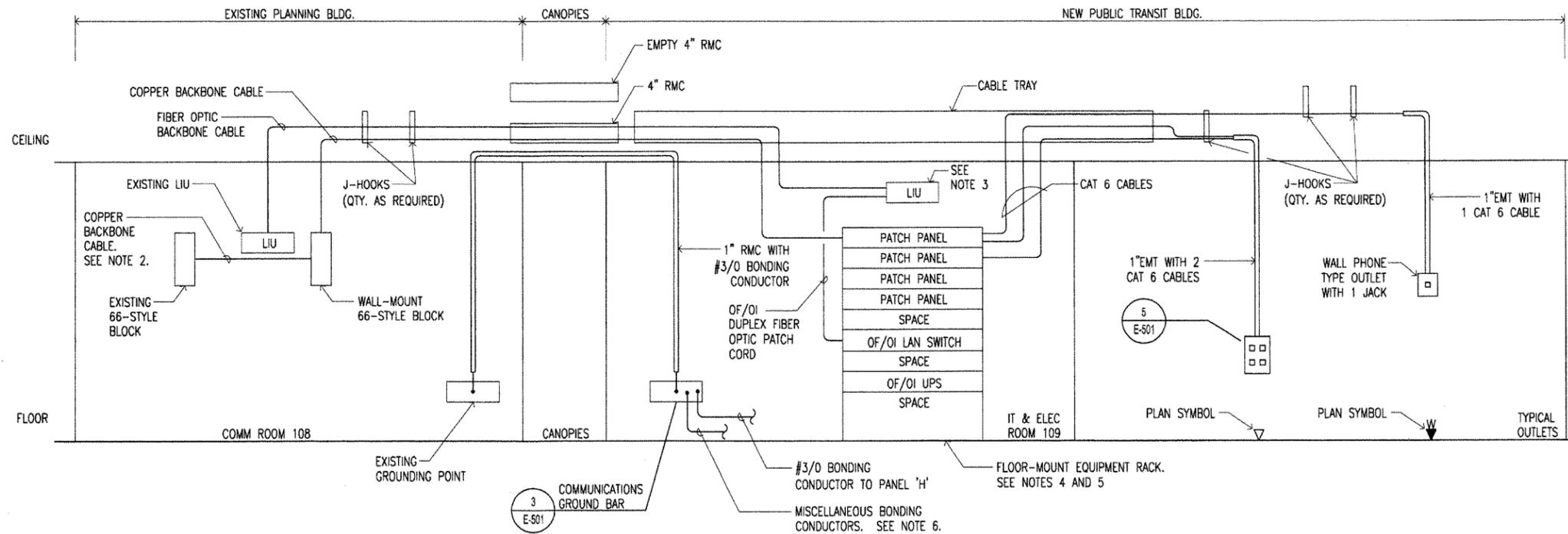
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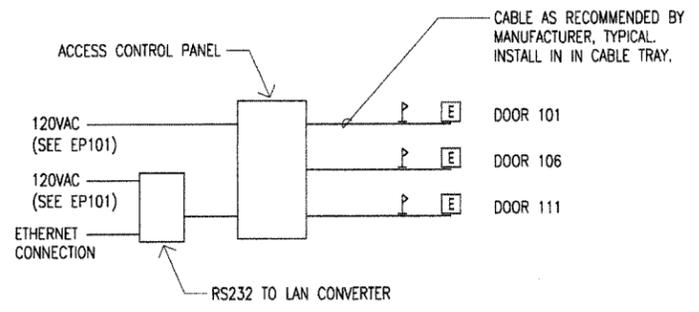
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Issue Date 14-DECEMBER-2012	Project Number 2012-102
Drawing Title <b>ELECTRICAL DETAILS</b>	
Drawing Number <b>E-501</b> 76 of 78	



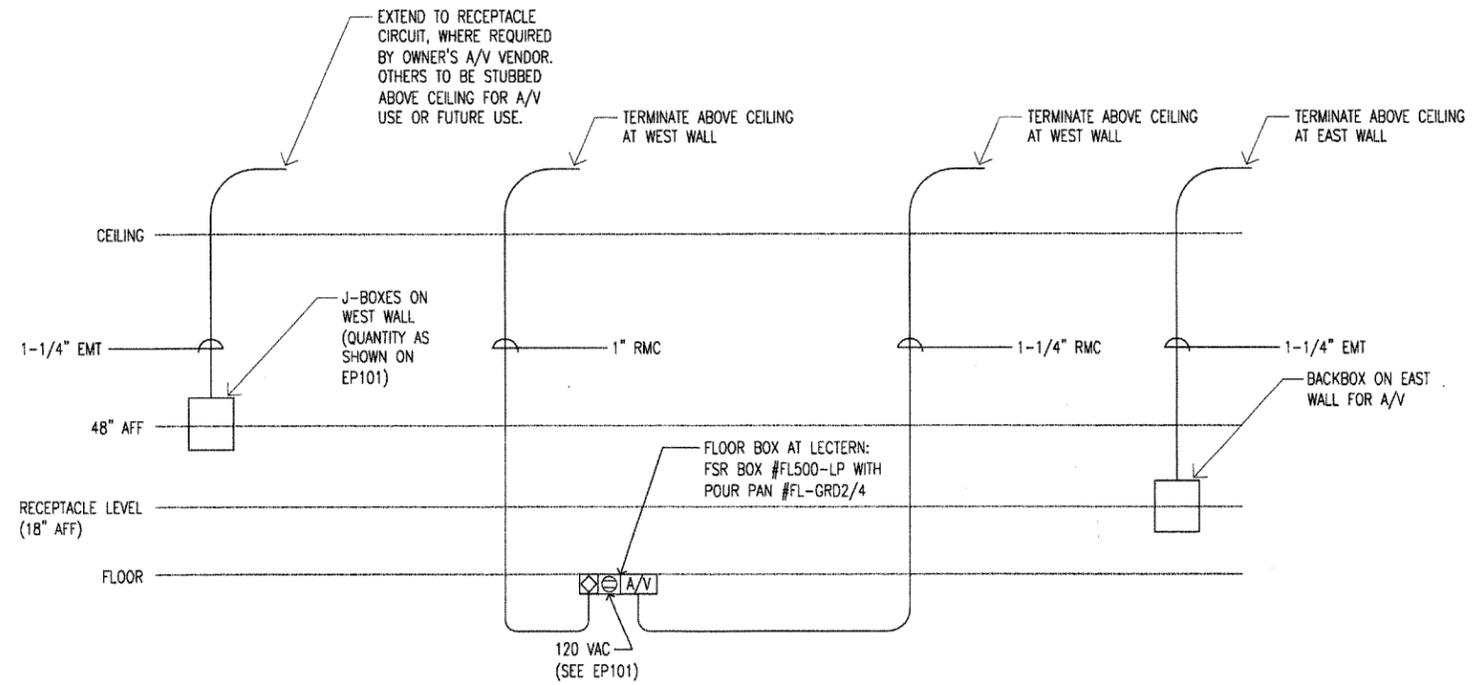
- DETAIL 1 NOTES:**
1. PROVIDE AND INSTALL ALL CABLING, BLOCKS, RACKS, PATCH PANELS, HARDWARE, TERMINATIONS, ETC., UNLESS NOTED OTHERWISE.
  2. COORDINATE WITH OWNER TO DETERMINE THE QUANTITY OF PAIRS TO BE TERMINATED (BASED ON QUANTITY OF ANALOG FAX MACHINE AND MODEMS TO BE INSTALLED).
  3. INSTALL LADDER RACK BETWEEN LIU AND COMM RACK.
  4. PATCH CORDS WILL BE OF/OI.
  5. RACK ELEVATION INDICATES MINIMUM REQUIREMENTS. PROVIDE ADDITIONAL PATCH PANELS AS REQUIRED.
  6. BOND LADDER RACK, CABLE TRAY, EQUIPMENT RACK, ETC. TO COMMUNICATIONS GROUND BAR.
  7. ROUTE CONDUITS THROUGH CANOPY SOFFITS. SEE DETAIL 2/A-403.
  8. FOR FUTURE USE, PROVIDE PULL CORD IN ALL CONDUITS, INCLUDING THOSE WITH CABLES.

**1 TELEPHONE/DATA SCHEMATIC**  
NOT TO SCALE



- DETAIL 2 NOTES:**
1. NEW COMPONENTS SHALL BE COMPATIBLE WITH EXISTING SYSTEM.
  2. INTERFACE SECURITY SYSTEMS, LLC SHALL PROVIDE, INSTALL, AND PROGRAM CARD ACCESS SYSTEM COMPONENTS. NO EXCEPTIONS.
  3. COORDINATE ALL REQUIREMENTS WITH INTERFACE SECURITY SYSTEMS, LLC PRIOR TO ROUGH-IN.
  4. EXPAND EXISTING SYSTEM AND SOFTWARE AS REQUIRED TO PROVIDE A COMPLETELY OPERATIONAL SYSTEM.

**2 CARD ACCESS CONTROL SCHEMATIC**  
NOT TO SCALE



- DETAIL 3 NOTES:**
1. FLOOR BOX: COORDINATE FINISH WITH ARCHITECT. 4-GANG PORTION FOR A/V, 2-GANG PORTION FOR TELEPHONE/DATA, 1-GANG PORTION FOR RECEPTACLE.
  2. COORDINATE ARRANGEMENT, BACKBOX SIZES, ETC. WITH OWNER'S A/V VENDOR PRIOR TO ROUGH-IN.
  3. COORDINATE WITH ELEVATION 5/A-701.

**3 A/V SCHEMATIC (TRAINING/CONFERENCE ROOM 107)**  
NOT TO SCALE

CONSTRUCTION DOCUMENTS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12377

DATE: 12/12/12

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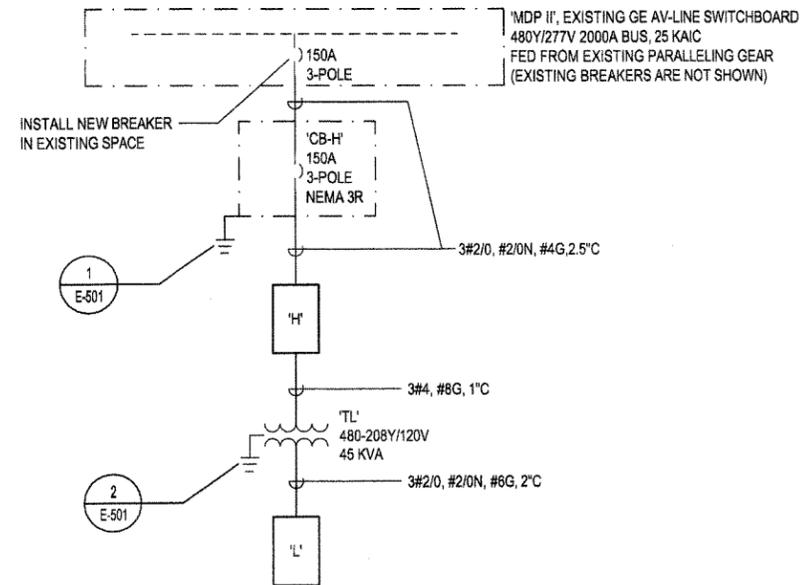
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Issue Date: 14-DECEMBER-2012 Project Number: 2012-102

Drawing Title: ELECTRICAL DETAILS

Drawing Number: E-502

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**1 SINGLE LINE DIAGRAM**  
NO SCALE

PANEL L		MOUNTING SURFACE		LOCATION 109		MAIN BUS RATING 225 AMPS						
MAIN MCB		POLES 3		FRAME 225		TRIP 175						
VOLTAGE 208Y/120		PHASE 3		MINIMUM BREAKER INTERRUPTING CAPACITY 10KAIC								
ACCESSORIES SN + EQP GND + IG												
AMPS TRIP	POLES	TYPE	BRANCH CIRCUIT		PHASE LOAD			BRANCH CIRCUIT		AMPS TRIP		
			LOAD	DESCRIPTION	VOLT AMPS	NO	A	B	C		NO	VOLT AMPS
15	2	H	DS-1,DS-2,DS-3	149	1	1649	2	1500	115 COPIER	M	1	20
-	-	H	-	149	3	1049	4	900	OFFICE 117, CONTRACT 118	R	1	20
15	2	H	DS-4,DS-5,DS-6	95	5	995	6	900	OFFICE 119, CONTRACT 119	R	1	20
-	-	H	-	95	7	815	8	720	OFFICE 105	R	1	20
15	2	H	DS-7,DS-8	85	9	805	10	720	OFFICE 104	R	1	20
-	-	H	-	85	11	805	12	720	OFFICE 103	R	1	20
15	2	H	DS-9,DS-10	171	13	711	14	540	RECEPTION 116	R	1	20
-	-	H	-	171	15	891	16	720	RECEPTION 102	R	1	20
15	2	H	BC-1	104	17	644	18	540	RECEPTION 103	R	1	20
-	-	H	-	104	19	1184	20	1080	TRAINING/CONF 107	R	1	20
15	1	H	EF-1	528	21	1608	22	1080	TRAINING/CONF 107	R	1	20
20	1	R	ROOF RECEP	180	23	1260	24	1080	TRAINING/CONF 107	R	1	20
20	1	M	115 MICROWAVE	1800	25	2700	26	900	TLT, STOR 114, HALL, EXT	R	1	20
20	1	M	115 COFFEE	1800	27	2700	28	900	REC 108, HALL, EXT	R	1	20
20	1	M	115 REFRIG	800	29	1880	30	1080	IT/ELEC 109, TS1, HVAC CTRL	V	1	20
20	1	R	OPEN OFFICE 115	360	31	1080	32	720	MECH 110, STOR 120	R	1	20
20	1	R	OPEN OFFICE 115	900	33	1500	34	600	EWC-1	M	1	20
20	1	R	OPEN OFFICE 115	900	35	1260	36	360	115 COUNTER	R	1	20
20	1	R	OPEN OFFICE 115	540	37	900	38	360	107 AV	R	1	20
20	1	R	OPEN OFFICE 115	540	39	1340	40	800	107 AV FLAT SCREENS	M	1	20
20	1	R	OPEN OFFICE 115	720	41	720	42		SPARE		1	20
20	1	R	OPEN OFFICE 115	360	43	1440	44	1080	TRAINING/CONF 107	R	1	20
20	1	R	OPEN OFFICE 115	360	45	1260	46	900	TRAINING/CONF 107	R	1	20
20	2	H	EUH-1	1500	47	2220	48	720	TRAINING/CONF 107	R	1	20
-	-	H	-	1500	49	1900	50	400	CARD ACCESS PANEL	M	1	20
20	1	L	RH-1,RH-2	600	51	780	52	180	IT/ELEC 109	R	1	20
20	1		SPARE		53	1500	54	1500	COMM RACK 109	M	1	20
20	1		SPARE		55		56		SPARE		1	20
20	1		SPARE		57		58		SPARE		1	20
20	1		SPARE		59		60		SPARE		1	20
			SPACE		61		62		SPACE			
			SPACE		63		64		SPACE			
			SPACE		65		66		SPACE			
			SPACE		67		68		SPACE			
			SPACE		69		70		SPACE			
			SPACE		71		72		SPACE			
					73		74					
					75		76					
					77		78					
					79		80					
					81		82					
					83		84					
TOTAL						12379	11933	11284	36 KVA (CONNECTED)	99 AMPS (CONNECTED)		
									31 KVA (DEMAND)	85 AMPS (DEMAND)		

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	VOLTS	LAMPS	DESCRIPTION	NOTES
A	METALUX	2GC8-232A125-UNV-ER81-PAF-U	277	2-32WT8	2X4 RECESSED LENSED PRISMATIC TROFFER	
B2	NEO-RAY	244-R-2-T8-ETG-U-PRS-SI	277	2-32WT8	2X4 RECESSED DIRECT/INDIRECT WITH ROUND PERFORATION	
B3	NEO-RAY	244-R-3-T8-ETG-U-PRS-SI	277	3-32WT8	2X4 RECESSED DIRECT/INDIRECT WITH ROUND PERFORATION	
C	METALUX	DMF-232-UNV-ER81-U WITH WG/DIF-4FT	277	2-32WT8	4' INDUSTRIAL STRIP WITH WIRE GUARD, SURFACE MOUNT OR CHAIN HUNG AT 9'-0" AFF	
D	METALUX	BEU-232-UNV-ER81-U	277	2-32WT8	4' WALL BRACKET	
E3	METALUX	SSL-125-UNV-ER81-U	277	1-25WT8	3' NARROW STAGGERED STRIP	
E4	METALUX	SSL-132-UNV-ER81-U	277	1-32WT8	4' NARROW STAGGERED STRIP	
F	PORTFOLIO	C7242E-7361L11G-HB26	277	2-26W PLT	6" ROUND RECESSED DOWNLIGHT, SELF-FLANGED WITH PRISMATIC GLASS LENS	
G	METALUX	SNF-132-UNV-ER81-U	277	1-32WT8	4' NARROW STRIP	
H	PORTFOLIO	CD6142E-6CH1420LI-HB26-TRRC6	277	1-26W PLT	6" ROUND RECESSED OPEN DOWNLIGHT WITH RIMLESS TRIM RING	
J	METALUX	OFCL-132-UNV-ER81-U	277	1-32WT8	4' UNDERCABINET	
EXIT	SURE-LITES	ELX7-X-70-00-WH-G-X-C-SD	277	LED (INCLUDED)	EXIT SIGN, ARROWS, MOUNTING, AND FACES PER PLANS	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:  
 1. PROVIDE FLANGE KITS AND ACCESSORIES AS REQUIRED.  
 2. PROVIDE EMERGENCY BATTERY PACK, INTEGRAL TEST SWITCH, AND ACCESSORIES WHERE BATTERY PACK IS INDICATED ON PLANS.

PANEL H		MOUNTING SURFACE		LOCATION 109		MAIN BUS RATING 250 AMPS							
MAIN LO		POLES 3		FRAME		TRIP							
VOLTAGE 480Y/277		PHASE 3		MINIMUM BREAKER INTERRUPTING CAPACITY 10KAIC									
ACCESSORIES SN + EQP GND + SPD													
AMPS TRIP	POLES	TYPE	BRANCH CIRCUIT		PHASE LOAD			BRANCH CIRCUIT		AMPS TRIP			
			LOAD	DESCRIPTION	VOLT AMPS	NO	A	B	C		NO	VOLT AMPS	DESCRIPTION
70	3	S	TRANSFORMER TL	12179	1	13179	2	1000	EW-1	M	L	3	15
-	-	S	TRANSFORMER TL	11933	3	12933	4	1000	-	M			-
-	-	S	TRANSFORMER TL	11284	5	12284	6	1000	-	M			-
30	3	H	OSU-1	5820	7	7317	8	1497	SOUTH LTS	L		1	20
-	-	H	-	5820	9	7354	10	1534	CENTER LTS	L		1	20
-	-	H	-	5820	11	7238	12	1418	NORTH LTS	L		1	20
20	3	H	HRU-1 MODULE 1	3326	13	4054	14	728	EXTERIOR LTS	L		1	20
-	-	H	-	3326	15	3326	16		SPARE			1	20
-	-	H	-	3326	17	3326	18		SPARE			1	20
15	3	H	HRU-1 MODULE 2	2439	19	2439	20		SPARE			1	20
-	-	H	-	2439	21	2439	22		SPARE			1	20
-	-	H	-	2439	23	2439	24		SPARE			1	20
			SPACE		25		26		SPACE				
			SPACE		27		28		SPACE				
			SPACE		29		30		SPACE				
			SPACE		31		32		SPACE				
			SPACE		33		34		SPACE				
			SPACE		35		36		SPACE				
			SPACE		37		38		SPACE				
			SPACE		39		40		SPACE				
			SPACE		41		42		SPACE				
TOTAL						26989	26052	25287	78 KVA (CONNECTED)	94 AMPS (CONNECTED)			
									73 KVA (DEMAND)	88 AMPS (DEMAND)			

PANEL SCHEDULE NOTES:  
 1. INSTALL HANDLE TIE FOR EACH MULTIWIRED BRANCH CIRCUIT (CIRCUIT SHARING A NEUTRAL CONDUCTOR).  
 LEGEND  
 MAIN  
 CB = CIRCUIT BREAKER  
 LO = LUGS ONLY  
 BRANCH CIRCUIT BREAKER TYPE  
 A = ARC FAULT CIRCUIT INTERRUPTER  
 G = GROUND FAULT CIRCUIT INTERRUPTER  
 S = SHUNT TRIP  
 V = VARIABLE (ADJUSTABLE TRIP)  
 E = EQUIPMENT GROUND FAULT PROTECTION  
 L = LOCK-OUT DEVICE  
 LOAD TYPE  
 L = LIGHTING  
 R = RECEPTACLE  
 H = HVAC  
 M = MISCELLANEOUS  
 V = VARIOUS  
 MISCELLANEOUS  
 SN = SOLID NEUTRAL  
 EQP GND = EQUIPMENT GROUND BUS  
 IG = INSULATED GROUND BUS  
 SPD = INTEGRAL SURGE PROTECTION DEVICE

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 Drawing Title: ELECTRICAL SINGLE LINE DIAGRAM & SCHEDULES  
 Drawing Number: E-601  
 78 of 78