CITY OF FORREST CITY

NEW CITY HALL FOR FORREST CITY, ARKANSAS

MAYOR

LARRY BRYANT

CITY COUNCIL

ARDELIA ECHOLS
DANNY CAPPS
CHRIS OSWALT
STEVE HOLLOWELL
LOUISE FIELDS
ROGER BREEDING
RONALD WILLIAMS
OZAREE TWILLIE

INDEX TO DRAWINGS

NOVEMBER 8, 2016

ETC ENGINEERS & ARCHITECTS, INC.

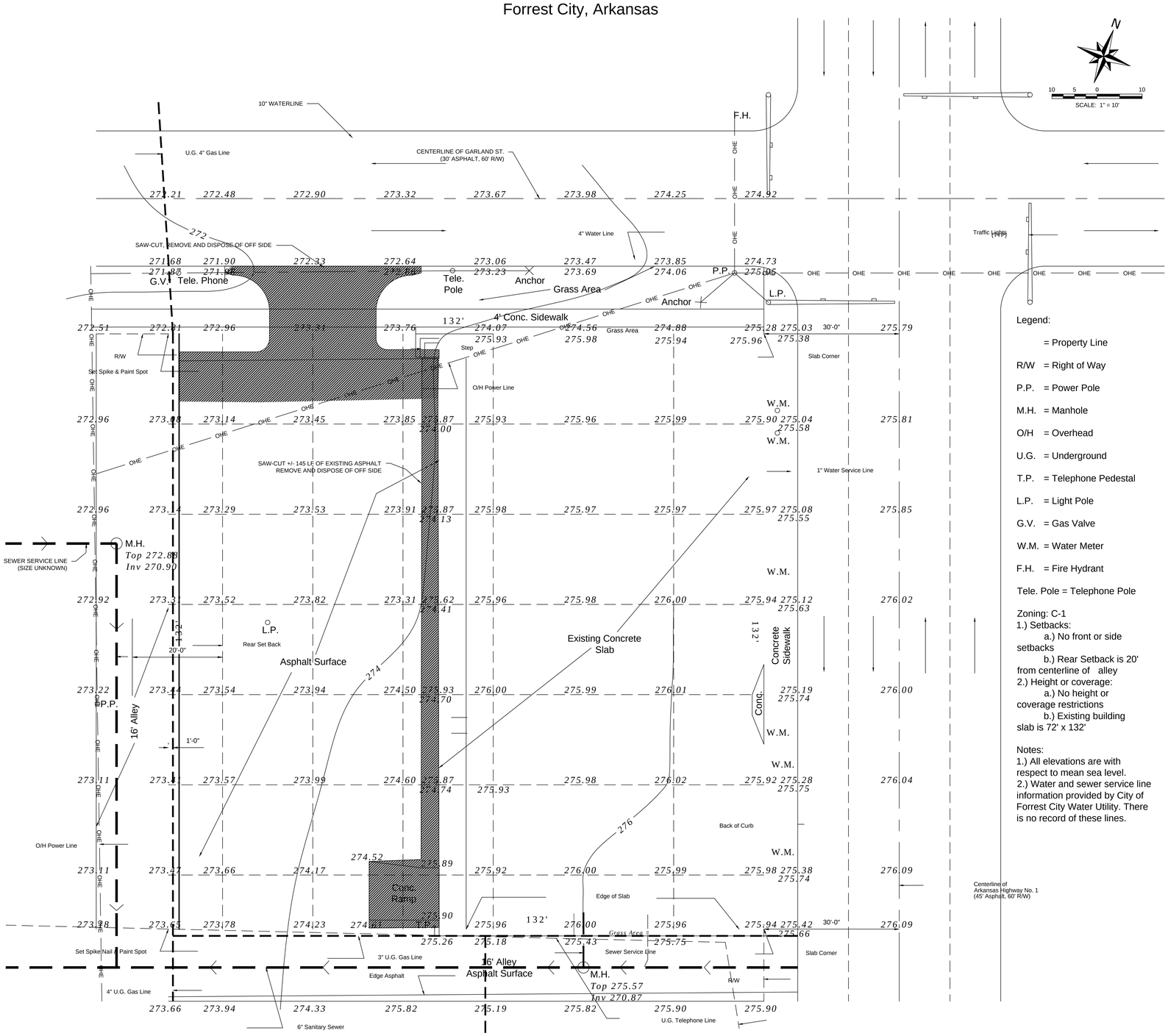
Environmental Technical Consultants, Inc.

DESIGN & ENVIRONMENTAL CONSULTANTS AND CONSTRUCTION MANAGERS

BUILDING A BETTER WORLD

1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277
E-mail: ETC @ etcengineersinc.com - Web Site: www.etcengineersinc.com

Topographical Survey of Lot 1, Block 4, Original Town of Forrest City, Forrest City, Arkansas



DEMOLITION NOTES:

1. CONTRACTOR CAN USE THE EXISTING PARKING LOT AS STORAGE AND STAGING AREA, BUT SHALL BE RESPONSIBLE TO REMOVE AND DISPOSE OF THE EXISTING ASPHALT BEFORE OVERLAY THE ENTIRE PARKING LOT.
2. EXISTING CONDITION SHOWED IN THIS PLAN ARE BEFORE A DEMOLITION WAS PERFORMED BY THE CITY EXCEPT THOSE SHOWN IN THIS DRAWING.
3. CONTRACTOR IS RESPONSIBLE FOR THE DEMO THOS ARE SHOWN IN THIS DRAWING
4. CONTRACTORS SHOULD VISIT THE SITE TO FAMILIAR WITH THE CURRENT SITE CONDITION.
5. CONTRACTOR SHALL REPORT THE CITY/ENGINEER IF ADDITIONAL DEMO, RELOCATION IS NECESSARY, OR ENCOUNTERS ANY UNDERGROUND UTILITIES.
6. CONTRACTOR SHALL COORDINATE WITH THE CITY AND UTILITY COMPANIES IF ANY UNDERGROUND OR OVERHEAD UTILITIES NEED TO BE REMOVED OR RELOCATED

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998

GENERAL NOTE:
UTILITIES SHOWN WITHIN THE EXTENT OF CONSTRUCTION HAVE EITHER BEEN OBTAINED FROM AS-BUILT DRAWINGS OR ABOVE GROUND FEATURES SUCH AS FIRE HYDRANTS, VALVES, OR METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXACT LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION BY CALLING ONE-CALL AT 1-800-482-8998. THE UTILITY LOCATION MARKING SHALL BE MAINTAINED UNTIL NO FURTHER EXCAVATION IS REQUIRED.

Legend:

= Property Line
R/W = Right of Way
P.P. = Power Pole
M.H. = Manhole
O/H = Overhead
U.G. = Underground
T.P. = Telephone Pedestal
L.P. = Light Pole
G.V. = Gas Valve
W.M. = Water Meter
F.H. = Fire Hydrant
Tele. Pole = Telephone Pole

Zoning: C-1
1.) Setbacks:
a.) No front or side setbacks
b.) Rear Setback is 20' from centerline of alley
2.) Height or coverage:
a.) No height or coverage restrictions
b.) Existing building slab is 72' x 132'

Notes:
1.) All elevations are with respect to mean sea level.
2.) Water and sewer service line information provided by City of Forrest City Water Utility. There is no record of these lines.

MEPFS & STRUCTURAL

GEOTECHNICAL ENGINEER

MTA Engineers
A Division of Material Testings of Arkansas
P.O. Box 23715
Little Rock, AR 72221
Ph. 501.753.2526
Fax 501.753.5747

CIVIL ENGINEER

CERTIFICATE OF AUTHORIZATION
ETC ENGINEERS INC.
No. 365
ARKANSAS ENGINEER

ETC ENGINEERS & ARCHITECTS, INC.
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FORREST CITY
NEW CITY HALL
FORREST CITY, AR

STAMPS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 12940
VAVKAT M. AI
11 - 16 - 2016

Issue / Date

Project No.: 163902CFC
Project Phase: Construction Documents
Drawn By: -
Checked By: SA

TOPOGRAPHIC SURVEY

C100

UTILITY NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS FOR WATER AND SANITARY SEWER WORK SHALL COMPLY WITH THE FORREST CITY UTILITY STANDARD SPECIFICATIONS, LATEST EDITION.
2. WATER PIPE MATERIAL SHALL BE AWW C900 CLASS 200 PVC IN THE SIZE INDICATED ON THE PLAN.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE CITY UTILITY COMPANIES TO PROVIDE NECESSARY WATER, SEWER, AND ELECTRICAL SERVICES TO THE FACILITY TO MAKE IT FULLY FUNCTIONAL.
4. CONTRACTOR SHALL BEAR THE COST OF NECESSARY CONNECTION FEES.
5. SANITARY SEWER PIPING SHALL BE 4" SDR26 PVC.
6. THRUST BLOCKING TO BE USED AT ALL "TEES", BENDS, FIRE HYDRANTS, VALVES, CONNECTIONS.

GRADING, CUT/FILL NOTES

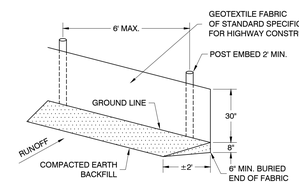
1. CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW THE RECOMMENDATIONS OUTLINED IN THE GEO-TECHNICAL REPORT
2. TOTAL SITE ACRES: ±0.45 ACRES
3. TOTAL DISTURBED ACRES: ±0.25 ACRES
4. TOTAL UNDISTURBED ACRES: 20 ACRES
5. APPROXIMATE SLOPE AFTER GRADING ACTIVITIES WILL VARY FROM 1% TO 20%
6. ALL DISTURBED AREAS SHALL BE COVERED WITH MINIMUM OF 6" OF TOP SOIL.

PARKING LOT NOTES

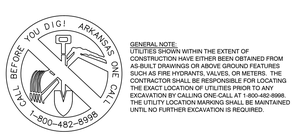
1. RECOMPACT EXISTING GRAVEL, ADD IF NECESSARYIN THE EXISTING PARKING LOT AREA.
2. MAINTAIN THE SAME GRADE LEVEL
3. INSTALL 6" COMPACTED GRAVEL OVER THE EXTENDED (NEW) ASPHALT AREA OVER THE COMPACTED SUBGRADE
4. INSTALL 2" ASPHALTIC SURFACE COURSE OVER THE ENTIRE PARKING LOT.

EROSION & SEDIMENT CONTROL NOTES.

1. HAVE THE EROSION CONTROL PLAN AVAILABLE ON-SITE.
2. TEMPORARY SILT FENCE (1/C101) SHALL BE INSTALLED AS SHOWN ON THE PLAN AND MAINTAINED UNTIL THE AREA IS STABILIZED.
3. THE SILT FENCES SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND MAKE SURE EACH STAKE IS FIRMLY IN THE GROUND.
4. USE MULCHES ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHEN THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN REASONABLE TIME.
5. USE MULCHES ON CLEARED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR.
6. USE MULCH WITH TEMPORARY SEEDING
7. AFTER FINAL GRADING, INSTALL SOD AS PER SPECIFICATION AS PERMANENT EROSION CONTROL, EXCLUDING PAVED AREAS.
8. ALL SOD AREA SHALL BE COVERED BY AUTOMATIC SPRINKLER IRRIGATION SYSTEM. CONTRACTOR SHALL SUBMIT DESIGN OF THE AUTOMATED SPRINKLER SYSTEM WHICH WILL INCLUDE SEPARATE METER AND CONTROL BOX IN COMPLIANCE WITH FORREST CITY REQUIREMENTS FOR ENGINEER REVIEW AND APPROVAL.
9. CONTRACTOR SHALL SUBMIT DESIGN OF THE AUTOMATED SPRINKLER SYSTEM WHICH WILL INCLUDE SEPARATE METER AND CONTROL BOX IN COMPLIANCE WITH FORREST CITY REQUIREMENTS FOR ENGINEER REVIEW AND APPROVAL.
10. INSTALL A STONE STABILIZED PAD AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO EXISTING ROADS.
11. IF THE ACTION OF THE VEHICULAR TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS THE EXISTING ROAD.
12. THE GRAVEL PAD MUST BE INSTALLED WITH A MINIMUM STONE LAYER OF 6 INCHES. THE LENGTH AND WIDTH OF THE PAD MUST BE AS SHOW ON THIS SHEET.
13. MAINTAIN A DESIGNATED CONCRETE WASHOUT AREA FOR ALL CONCRETE WASH.



1 SILT FENCE
N.T.S.



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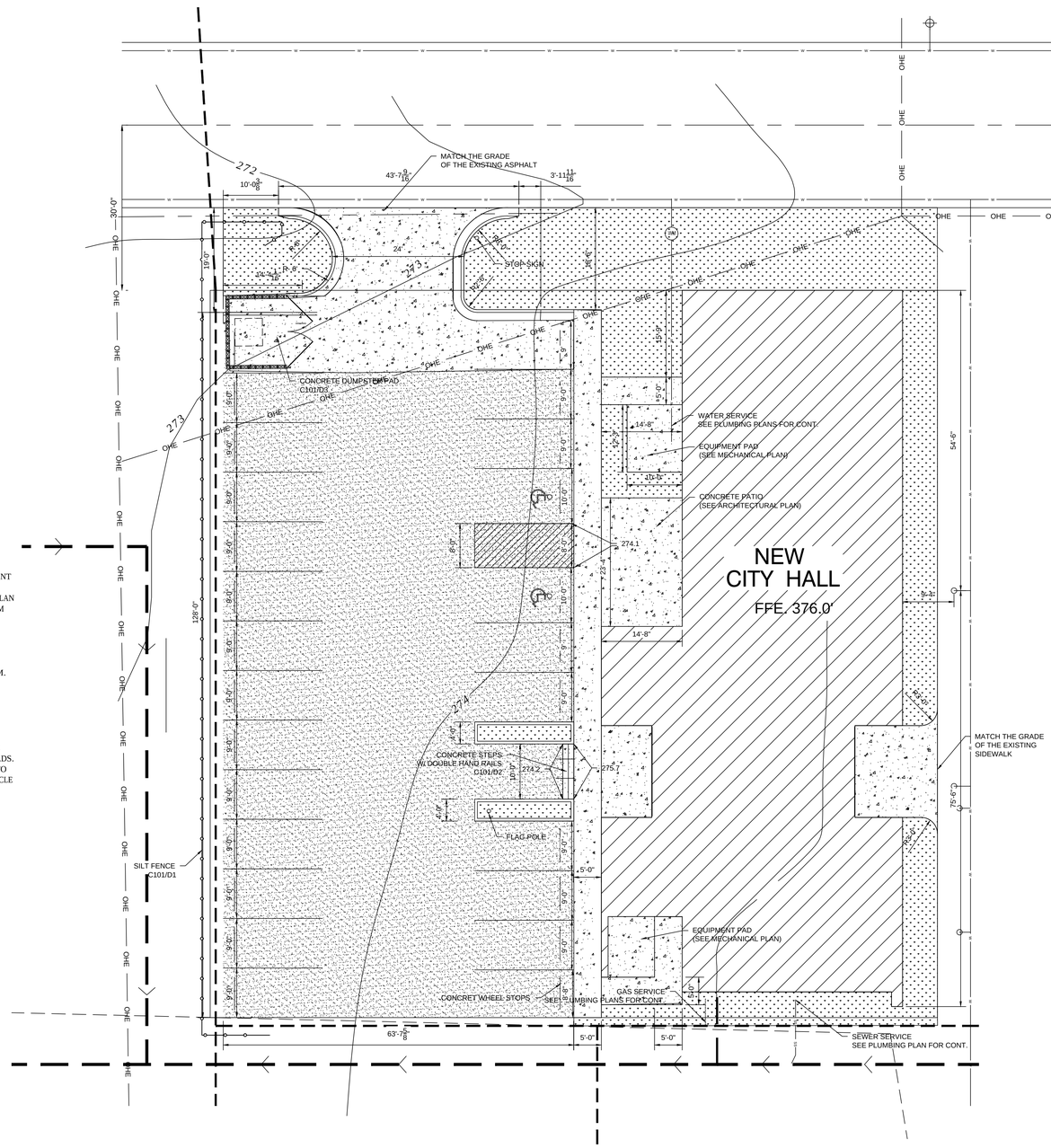
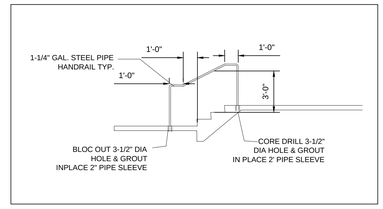
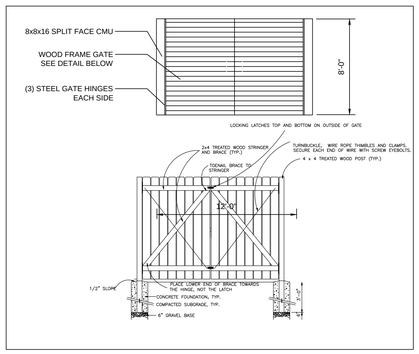


LEGEND

- ASPHALT LIGHT TRAFFIC
- CONCRETE
- GRASS AREA
- WATER SERVICE LINE
- SANITARY SEWER SERVICE LINE
- SILT FENCE
- CURB & GUTTER



2 HAND RAIL DETAIL
N.T.S.



3 DUMPSTER DETAIL
N.T.S.

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No. 12940
HAWKAT M. ALI
11-1a-2016

Issue / Date	

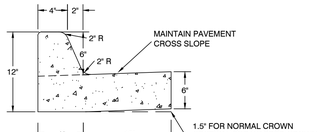
Project No.: 163902CFC

Project Phase: Construction Documents

Drawn By: - Checked By: SA

SITE, GRADING, DRAINAGE & EROSION CONTROL

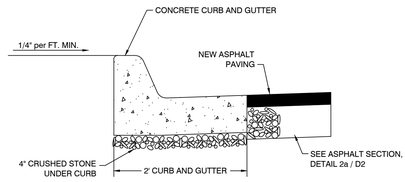
C101



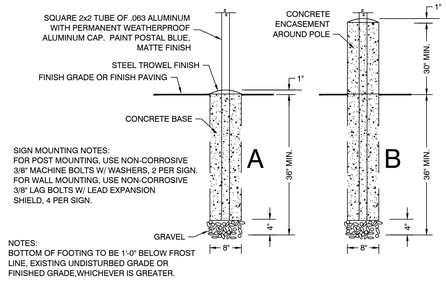
NOTES:

1. INSTALL ½" BITUMINOUS EXPANSION JOINT MATERIAL AT 100' MAX. INTERVALS OR AT TIE INS TO BOXES, RADIUS RETURNS OR DRIVEWAY APRONS. CONTROL JOINTS AT 15' MAX. ON CENTER.
2. JOINT SEALANT SHALL BE SONNEBORN SL2 SELF LEVELING URETHANE AS MANUFACTURED BY CHEMREX OR EQUIVALENT.

1 CONCRETE CURB
N.T.S.

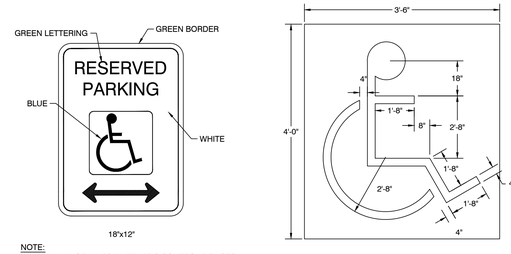


2 CONCRETE CURB @ ASPHALT JUNCTURE
N.T.S.



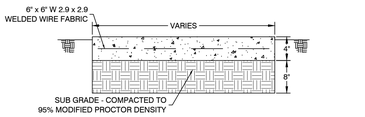
NOTES:
BOTTOM OF FOOTING TO BE 1'-0" BELOW FROST LINE, EXISTING UNDISTURBED GRADE OR FINISHED GRADE,WHICHEVER IS GREATER.

6 SIGN POLE DETAIL
N.T.S.

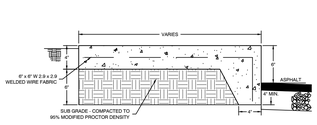


NOTE:
R7-8 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SIGNS WILL BE MOUNTED WITH THE BOTTOM EDGE 7'-0" ABOVE FINISHED GRADE.

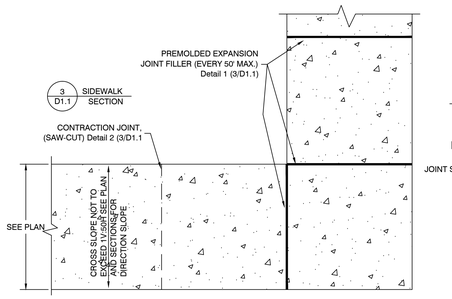
9 HANDICAPPED SPACE (SIGN AND PAINTING)
N.T.S.

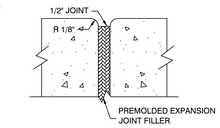


3A - PEDESTRIAN ONLY

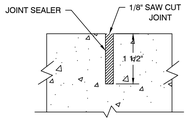


3B - SIDEWALK @ ASPHALT EDGE





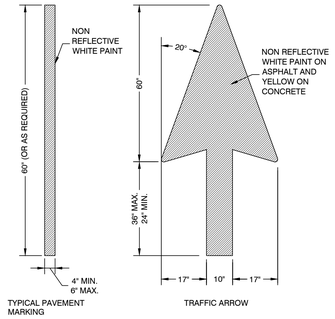
DETAIL 1 - EXPANSION JOINT



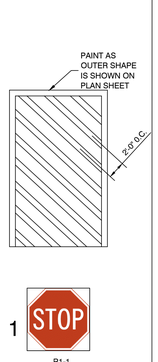
DETAIL 2 - SAW CUT JOINT

NOTES:
1. EXPANSION JOINT SPACING SHALL BE 50'
2. TOOLED TRANSVERSE CONTRACTION JOINTS AND CONSTRUCTION JOINTS SHALL BE SPACED THE SAME WIDTH AS THE WALK (5' MAX.)
3. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1/4" PER FT. IN THE DIRECTION OF SURFACE DRAINAGE IN THE AREA, UNLESS INDICATED OTHERWISE.
4. PROVIDE EXPANSION JOINTS FULL DEPTH AGAINST ANY EXISTING OR PROPOSED CURB, STRUCTURE, SLAB OR WALK.
5. SAW CUT JOINTS ON SLAB SHALL BE PLACED, EVENLY SPACED AT 10' MIN. TO 15' MAX SPACING.
6. SAW CUTS ON CURB AND GUTTER SHALL BE PLACE AT 10' MAX WITH EXPANSION JOINT AT 30' MAX.

3 SIDEWALK - PLAN, SECTIONS & JOINT DETAIL
N.T.S.

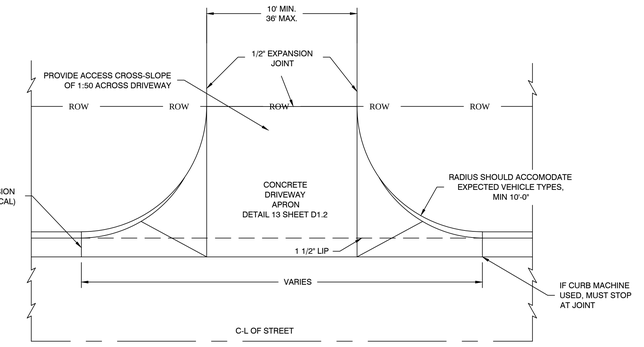


PAVEMENT MARKINGS (TYPICAL)
N.T.S.

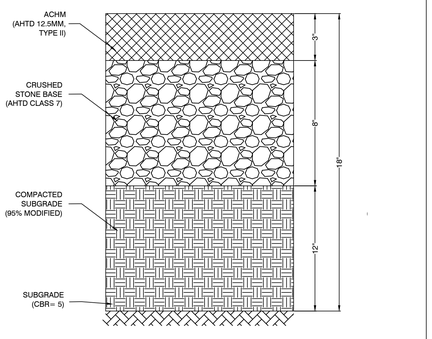


7 PAVEMENT MARKINGS & SIGNAGE
N.T.S.

www.roadtrafficsigns.com
or Approved Equal

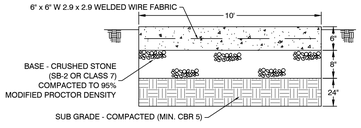


10 TYPICAL CONCRETE DRIVEWAY
N.T.S.

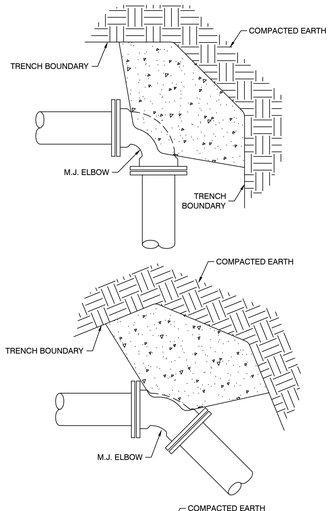


LIGHT TRAFFIC AREA

4 NEW ASPHALT SECTION
N.T.S.

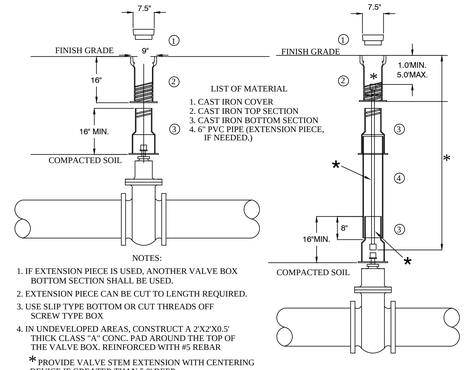


8 EQUIPMENT AREA SLAB AND DRIVEWAY DESIGN
N.T.S.



BEARING AREA OF BLOCK IN SQ. FT.					
FITTING SIZES	TEE AND END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	3.6	5.4	2.5	1.5	0.8
8"	6.3	8.9	4.8	2.5	1.3
10"	9.9	13.9	7.6	3.9	2.0
12"	14.2	20.0	10.9	5.6	2.8

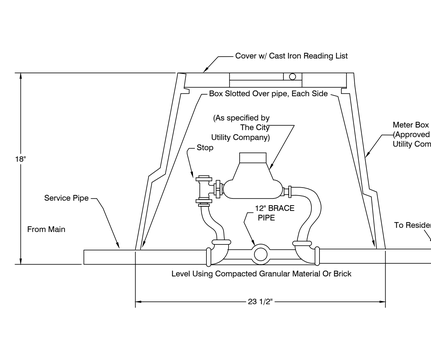
11 THRUST BLOCKING
N.T.S.



NOTES:
1. IF EXTENSION PIECE IS USED, ANOTHER VALVE BOX BOTTOM SECTION SHALL BE USED.
2. EXTENSION PIECE CAN BE CUT TO LENGTH REQUIRED.
3. USE SLIP TYPE BOTTOM OR CUT THREADS OFF SCREW TYPE BOX
4. IN UNDEVELOPED AREAS, CONSTRUCT A 2'X2'X0.5' THICK CLASS "A" CONC. PAD AROUND THE TOP OF THE VALVE BOX. REINFORCED WITH #5 REBAR

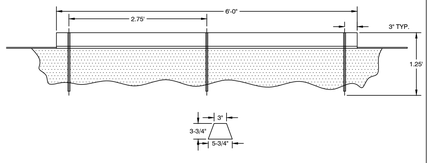
* PROVIDE VALVE STEM EXTENSION WITH CENTERING DEVICE IF GREATER THAN 5.0' DEEP.

12 GATE VALVE DETAIL
N.T.S.



12 TYPICAL WATER METER
N.T.S.

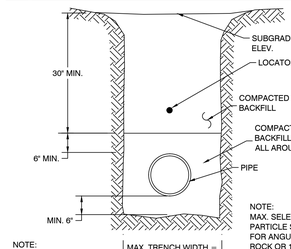
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SALE DRAWINGS.
3.CONTACT LITCHFIELD INDUSTRIES FOR DIMENSIONAL INFORMATION AND SPECIFICATIONS.
4. ALL FOUNDATION DESIGN INFORMATION SHOULD BE CONSIDERED AS PRELIMINARY ONLY.
5. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info. REFERENCE NUMBER 175-173c.



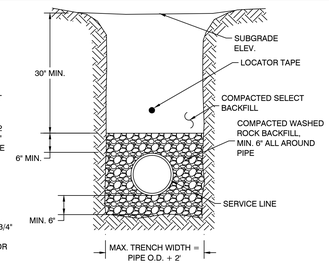
5 WHEEL STOP
N.T.S.

WATER / SEWER UTILITY NOTE:

1. **METHODS FOR WATER AND SANITARY SEWER WORK SHALL COMPLY WITH THE FORREST CITY WATER AND SEWER SYSTEMS STANDARD CONSTRUCTION SPECIFICATIONS**

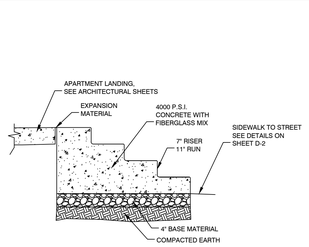


WATER LINE TRENCH



SEWER LINE TRENCH

13 UTILITY TRENCHES
N.T.S.



12 CONCRETE STEP DETAIL
N.T.S.

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FORREST CITY NEW CITY HALL
FORREST CITY, ARKANSAS

STAMPS

Issue / Date	

Project No.: 163902CFC

Project Phase: Construction Documents

Drawn By: - Checked By: SA

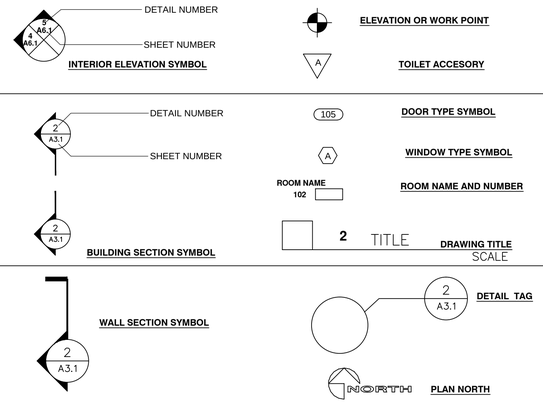
DETAILS: SITE CONSTRUCTION

D1.1

ABBREVIATIONS

ABV	ABOVE
AC	AIR CONDITIONING
ADDL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
ACOUST	ACOUSTICAL
ALT	ALTERNATE
ASPH	ASPHALT
BC	BACK OF CURB
BD	BOARD
BRG	BEARING
BM	BENCH MARK, BEAM
BLK	BLOCK
BLKG	BLOCKING
BRKR	BREAKER
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CLG	CEILING
CT	CERAMIC TILE
CB	CHALK BOARD
CD	CIVIL DRAWINGS
CG	CORNER GUARD
CI	CAST IRON
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CLR	CLEAR
COL	COLUMN
CJ	CONTROL JOINT
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACTOR
CORR	CORRIDOR
DET	DETAIL
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER, DISPOSAL
DR	DOOR
DS	DOWNSPOUT
DG	DOOR GRILLE
DTL	DETAIL
EA	EACH
ED	EMERGENCY DRAIN
ELEV	ELEVATION, ELEVATOR
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EMER	EMERGENCY
EQ	EQUAL
EXIST	EXISTING
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR
FIN	FINISH
FHC	FIRE HOSE CABINET
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FF	FINISH FLOOR
FHB	FROST-PROOF HOSE BIBB
FCO	FLOOR CLEANOUT
FL	FLOW LINE
FLR	FLOOR (ING)
FR	FRAME
FRMG	FRAMING
FT	FOOT, FEET
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS, GLAZING
GB	GRAB BAR
GYP BD	GYPSUM WALL BOARD
HB	HOSE BIBB
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR-CONDITIONING
HR	HANDRAIL
HT	HEIGHT
HDCP	HANDICAP
HM	HOLLOW METAL
HOR	HORIZONTAL
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
MH	MANHOLE
MAN'F	MANUFACTURE
MAS	MASONRY
MAX	MAXIMUM
MBU	MODIFIED BITUMEN UNDERLAYMENT
MC	MEDICINE CABINET
MECH	MECHANICAL
MCB	METAL CORNER BEAD
MO	MASONRY OPENING
MTL	METAL
MT	METAL THRESHOLD
MIL	MILLIMETER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MTL	METAL
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OVERHEAD, OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
PVMT	PAVEMENT
PERF	PERFORATE
PL	PLATE
PLBG	PLUMBING
PLAS	PLASTIC
PR	PAIR
PLYWD	PLYWOOD
PVC	POLYVINYL CHLORIDE
PREFIN	PREFINISHED
PROV	PROVIDE
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PL	PROPERTY LINE
QT	QUARRY TILE
R	RANGE, RADIUS
RCP	REINFORCED CONCRETE PIPE
RE:	REFERENCE
REFR	REFRIGERATOR
RA	RETURN AIR
REQ'D	REQUIRED
RET	RETAINING
REV	REVISION, REVISED
ROW	RIGHT OF WAY
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
SA	SUPPLY AIR
SHLVG	SHELVING
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SC	SOLID CORE
SCHED	SCHEDULE
SD	STRUCTURAL DRAWINGS
SPEC.	SPECIFICATION/SPECIFIED
SQ	SQUARE
STD	STANDARD
STL	STEEL
STSTL	STAINLESS STEEL
STO	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
SY	SQUARE YARD
TB	TACK BOARD
TEL	TELEPHONE
TEMP	TEMPERED, TEMPORARY
THRESH	THRESHOLD
THK	THICK
TLT	TOILET
T&G	TONGUE
TJ	TOOLED JOINT
TOG	TOP OF GRATE FRAME
TOS	TOP OF SLAB, TOP OF STEEL
TOW	TOP OF WALL
TRTD	TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VERT	VERTICAL
VES	VINYL EDGE STRIP
VOJ	VERIFY ON JOB
VTR	VENT THRU ROOF
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
W/	WITH
WAINS	WAINSCOT
WC	WATER CLOSET
WG	WALL GUARD
WP	WATERPROOFING,
WWF	WELDED WIRE FABRIC
W/O	WITHOUT
WD	WOOD
WH	WATER HEATER

SYMBOL LEGEND



PROJECT:

FORREST CITY
NEW CITY HALL
ARKANSAS HIGHWAY NO. 1
FORREST CITY, ARKANSAS

PROJECT DATA

PROJECT ADDRESS: ARKANSAS HIGHWAY NO. 1, FORREST CITY, ARKANSAS

PROJECT DESCRIPTION: CONSTRUCTION OF A NEW SINGLE STORY WOOD FRAMED TYPE VB BUILDING w/BRICK VENEER AND METAL SIDING OF APPROXIMATELY 5420 S.F. THE BUILDING SHALL INCLUDE OFFICES AND CITY COUNCIL CHAMBERS FOR THE CITY OF FORREST CITY ARKANSAS.

PROJECT AREA: 5420 GROSS SQUARE FEET

NET USEABLE AREAS: COUNCIL CHAMBERS: 1114 S.F.
LOBBY: 656 S.F.
OFFICES, AND ETC: 2955 S.F.

BUILDING TYPE: VB.
PRIMARY FRAME: WOOD FRAME AND STRUCTURAL STEEL
EXTERIOR LOAD BEARING WALLS: WOOD FRAME AND CMU
INTERIOR LOAD BEARING WALLS: WOOD FRAME
EXTERIOR NON-LOAD BEARING WALLS: WOOD FRAME
INTERIOR NON-LOAD BEARING WALLS: WOOD FRAME AND CMU
ROOF CONSTRUCTION: PRE-ENGINEERED WOOD ROOF TRUSSES AND STRUCTURAL STEEL FRAMING WITH SOLID WOOD DECKING AND METAL DECKING/CONCRETE AT VAULT

CODE COMPLIANCE NARRATIVE

THE BUILDING WILL INCLUDE 2 DIFFERENT OCCUPANCIES, GROUP B-OFFICES AND GROUP A-3-COUNCIL CHAMBERS. FOR THE PURPOSE OF COMPLYING WITH THE CODE THE MIXED OCCUPANCIS SHALL BE CONSIDERED NONSEPARATED PER 508.3. PER 508.3.2 THE ALLOWABLE HEIGHT AND AREA SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUP UNDER CONSIDERATION WHICH IN THIS CASE IS A-3. THE MAXIMUM BASIC ALLOWABLE AREA PER TABLE 503 FOR AN A-3 OCCUPANCY OF TYPE VB CONSTRUCTION IS 6000 S.F. AND THE MAXIMUM HEIGHT IS ONE STORY AND/OR 40 FEET. THE ACTUAL AREA IS 5420 S.F. AND THE ACTUAL HEIGHT IS ONE STORY, (25' AT THE PEAK OF THE ROOF OVER THE LOBBY). A FIRE SUPPRESSION SYSTEM IS NOT REQUIRED FOR AN AREA OR HEIGHT INCREASE, NOR IS IT REQUIRED PER 903.2.1.3. AND PER 508.3.3 NO SEPARATION OF THE OCCUPANCIES IS REQUIRED. THE PROJECT IS SEPARATED BY YARDS AND WAYS EXCEEDING 30' ON ALL SIDES AND THUS PER TABLE 602 EXTERIOR WALLS ARE NOT REQUIRED TO HAVE A FIRE-RESISTANCE RATING. AND PER TABLE 705.8 THERE IS NO LIMITATION OF EXTERIOR WALL OPENINGS.

TYPE OF CONSTRUCTION: VB
OCCUPANCY TYPE B, A-3
MAXIMUM ALLOWABLE AREA: 6000 S.F.
ACTUAL AREA 5420 S.F.
MAXIMUM ALLOWABLE HEIGHT: ONE STORY, 40'
ACTUAL HEIGHT: ONE STORY, 25'

NONSPRINKLERED

CURRENT APPLICABLE CODES: CURRENT APPLICABLE STATE CODES IN ARKANSAS

FIRE PREVENTION CODE	–	2012	ARKANSAS FIRE PREVENTION CODE, VOLUME I
BUILDING CODE	–	2012	ARKANSAS FIRE PREVENTION CODE, VOLUME II
RESIDENTIAL CODE	–	2012	ARKANSAS FIRE PREVENTION CODE, VOLUME III
ELECTRICAL CODE	–	2011	NATIONAL ELECTRIC CODE, NFIPA 70-1996
PLUMBING CODE	–	2006	ARKANSAS STATE PLUMBING CODE
GAS CODE	–	2006	ARKANSAS STATE GAS CODE
LIQUIFIED PETROLEUM GAS CODE	–	2009	LIQUID PETROLEUM GAS CONTAINERS AND EQUIPMENT
MECHANICAL CODE	–	2010	ARKANSAS MECHANICAL CODE
ENERGY CODE	–	2009	NA

FEDERAL FUNDS: THERE IS NO FEDERAL FUNDING ON THIS PROJECT.
PROJECT LOCATION: LITTLE ROCK, PULASKI COUNTY, ARKANSAS

NOTES

1. ALL ADA TOILETS SHALL BE PROVIDED WITH GRAB BARS.
2. A PANIC BAR RELEASING DEVICE SHALL BE PROVIDED FOR ALL REQUIRED EXIT DOORS.
3. FIRE AND SMOKE WALLS SHALL BE LABELED AS SUCH WITH THREE INCH TALL PAINTED BLACK LETTERS ABOVE THE CEILING ON BOTH SIDES OF THE WALL WITHIN EACH ROOM THAT ADJOINS SAID WALL AND AT TWENTY FOOT SPACING FOR ROOMS LARGER THAN TWENTY FEET IN ONE DIMENSION.
4. ALL ACCESS PANELS SHALL BE A MINIMUM OF 2'-0" HIGH 2'-6" LONG.
5. ALL FLOOR FINISHES SHALL BE COMPLETELY FLUSH. CONTRACTOR TO USE FLOOR LEVELING MATERIALS AS REQUIRED TO MAKE ALL NECESSARY ALIGNMENTS. TAPER THINNER FLOOR MATERIAL 1/16" PER FOOT MAXIMUM.
6. THIS PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH ALL SEISMIC LOADS FOR ITS ZONE.
7. FIXED EQUIPMENT ROUGH-IN INFORMATION SHOWN IS INTENDED TO ESTABLISH SCOPE OF WORK ONLY. INFORMATION SHOWN SHALL BE VERIFIED WITH OWNER'S VENDOR INSTALLATION DOCUMENTS PRIOR TO CONSTRUCTION.
8. ALL DIMENSIONS SHOWN ARE NOMINAL. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR PROPER FIT OF ALL COMPONENTS.

OWNERSHIP OF DOCUMENTS

THIS DOCUMENT, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ETC ENGINEERS AND ARCHITECTS, AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF ETC ENGINEERS AND ARCHITECTS.

NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INITIATION OF THE ACTUAL PORTION OF THEIR WORK.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ARCHITECT IS TO CONDUCT CONSTRUCTION OBSERVATION OF THE CONTRACTOR'S PERFORMANCE AND IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.

CODE DATA

DESIGN BASIS: THE ARKANSAS FIRE PREVENTION CODE, 2012 EDITION BASED ON 2012 INTERNATIONAL FIRE CODE

STATEMENT:
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.

OCCUPANCY CLASSIFICATION(S) + ALLOWABLE AREAS:
OCCUPANCY TYPE: PER 302.1: ASSEMBLY GROUP A-3 COUNCIL CHAMBERS + B OFFICES.
OCCUPANCIES SHALL BE NONSEPARATED PER 508.3

THE BUILDING IS SURROUNDED BY YARDS AND PUBLIC WAYS IN EXCESS OF 30' AROUND THE ENTIRE PERIMETER OF THE BUILDING

CONSTRUCTION TYPE VB PER TABLE 601 AND 602.5, ONE STORY ABOVE THE GRADE PLANE (MAX. ALLOWABLE HEIGHT = 40'-0")

TOTAL ENCLOSED AREA: 5420 S.F.
GROSS AREA OF OFFICES INCLUDING LOBBY: 3970 S.F.
NET AREA OF COUNCIL CHAMBERS: 1114 S.F.

OCCUPANCY LOAD OFFICES PER TABLE 1004.1.2 : $\frac{3970}{100}$ = 40
OCCUPANCY LOAD COUNCIL CHAMBERS: $\frac{1114}{7}$ = 160

NUMBER OF EXIST REQUIRED FOR OFFICES : 2
NUMBER OF EXITS PROVIDED: 2
NUMBER OF EXITS FOR COUNCIL CHAMBERS : 2
NUMBER PROVIDED: 2

MAXIMUM ALLOWABLE COMMON PATH OF EGRESS TRAVEL: 75'
MAXIMUM EGRESS TRAVEL: 33' AT THE COUNCIL CHAMBERS AND 22' IN THE OFFICE AREA

MAXIMUM ALLOWABLE EXIT ACCESS TRAVEL DISTANCE = 200'
MAXIMUM EXIT ACCESS TRAVEL DISTANCE = 115' (FROM MAYOR'S OFFICE BACK TO LOBBY AND TO DOOR 101.1)

NUMBER OF WATER CLOSETS REQUIRED:

COUNCIL CHAMBERS - WOMEN: 1 PER 65 THUS 2, NO. PROVIDED: 2
COUNCIL CHAMBERS - MEN: 1 PER 125 THUS 1, NO. PROVIDED: 2
OFFICES - WOMEN: 1 PER 25 THUS 1, NO. PROVIDED: 2
OFFICES - MEN: 1 PER 25 THUS 1, NO. PROVIDED: 2

1 SERVICE SINK REQUIRED, 1 PROVIDED

1 DRINKING FOUNTAIN REQUIRED, BOTTLED WATER DISPENSARY TO BE PROVIDED (N.I.C.)

GEOTECHNICAL ENGINEER
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Little Rock, AR 72221
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Fax. 501.753.5747

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REGISTERED ARCHITECT — GERALD AVERY — License Number 4544 — STATE OF ARKANSAS
11-08-2016

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS.
CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

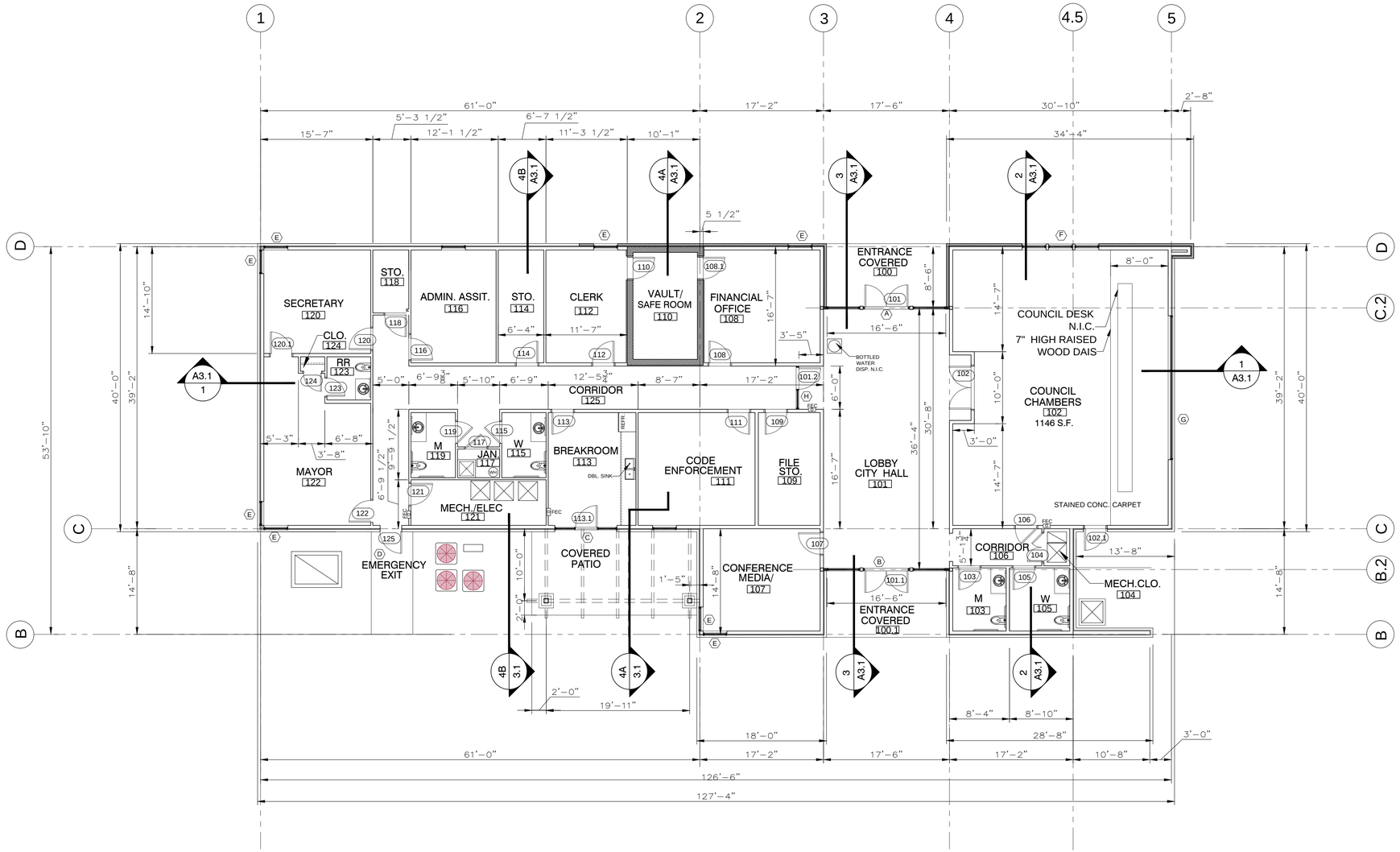
FORREST CITY
NEW CITY HALL
FORREST CITY, AR

REVISION

SURVEY BY:
DESIGN BY: GLA
DRAWN BY: GLA
CHECKED BY: GLA

NOVEMBER 8, 2016
JOB NO: 163902CFC

SHEET
A0.0



FLOOR PLAN

NORTH

1/8" = 1'-0"

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License Number 4544
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FORREST CITY NEW CITY HALL

FORREST CITY, AR

ISSUE / DATE	
DATE	DESCRIPTION

PROJECT NO. 163902CFC

PROJECT PHASE
CONSTRUCTION DOCUMENTS

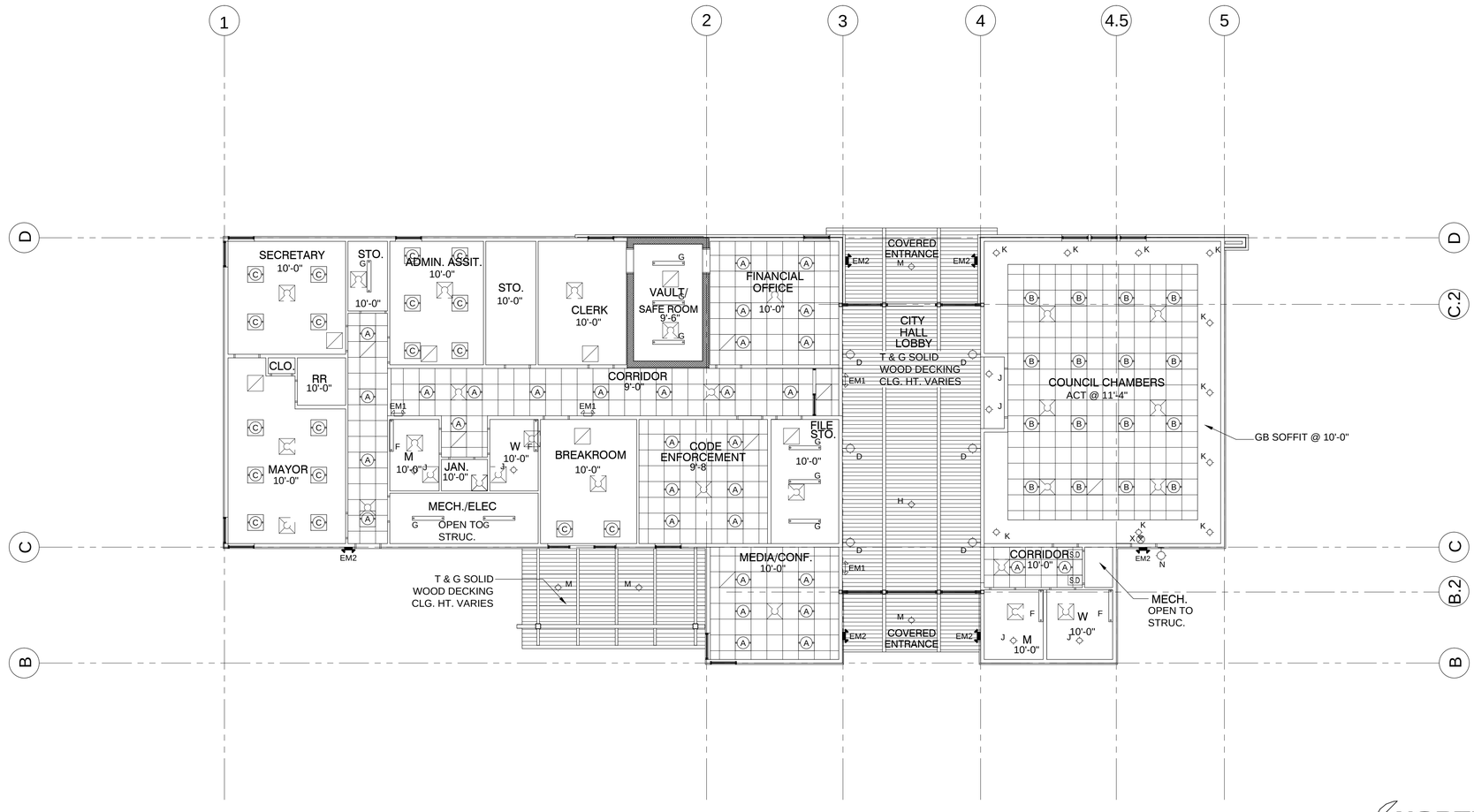
DRAWN BY: GLA
CHECKED BY: GLA

FLOOR PLAN
NOVEMBER 8, 2016

A1.1

LEGEND

- GYPSUM BOARD - LIGHT TEXTURE FIN. - PAINT
- 2x6 T&G SOLID WOOD DECKING WITH FACTORY APPLIED STAIN
- ACT CEILING SYSTEM - 'ARMSTRONG' BRIGHTON SERIES OR EQUAL



NORTH

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FORREST CITY NEW CITY HALL

FORREST CITY, AR

ISSUE / DATE

DATE	DESCRIPTION

PROJECT NO. 163902CFC

PROJECT PHASE

CONSTRUCTION DOCUMENTS

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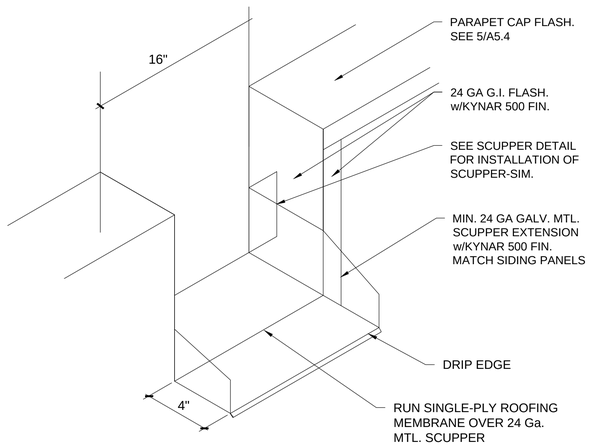
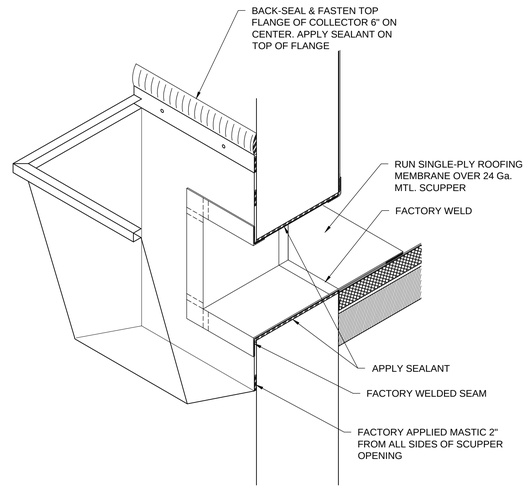
RCP

NOVEMBER 8, 2016

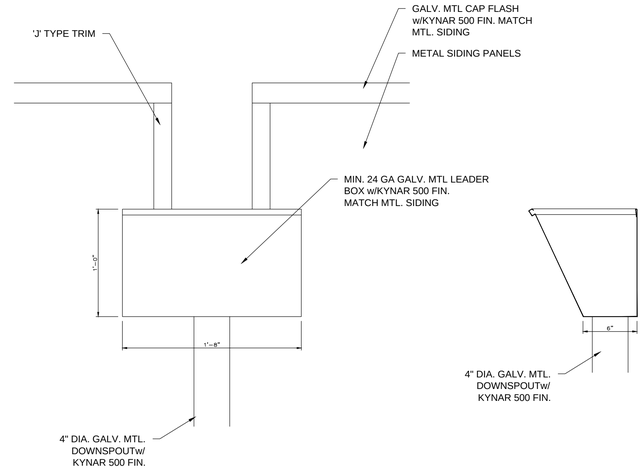
A1.2



3 SCUPPER EXTENSION

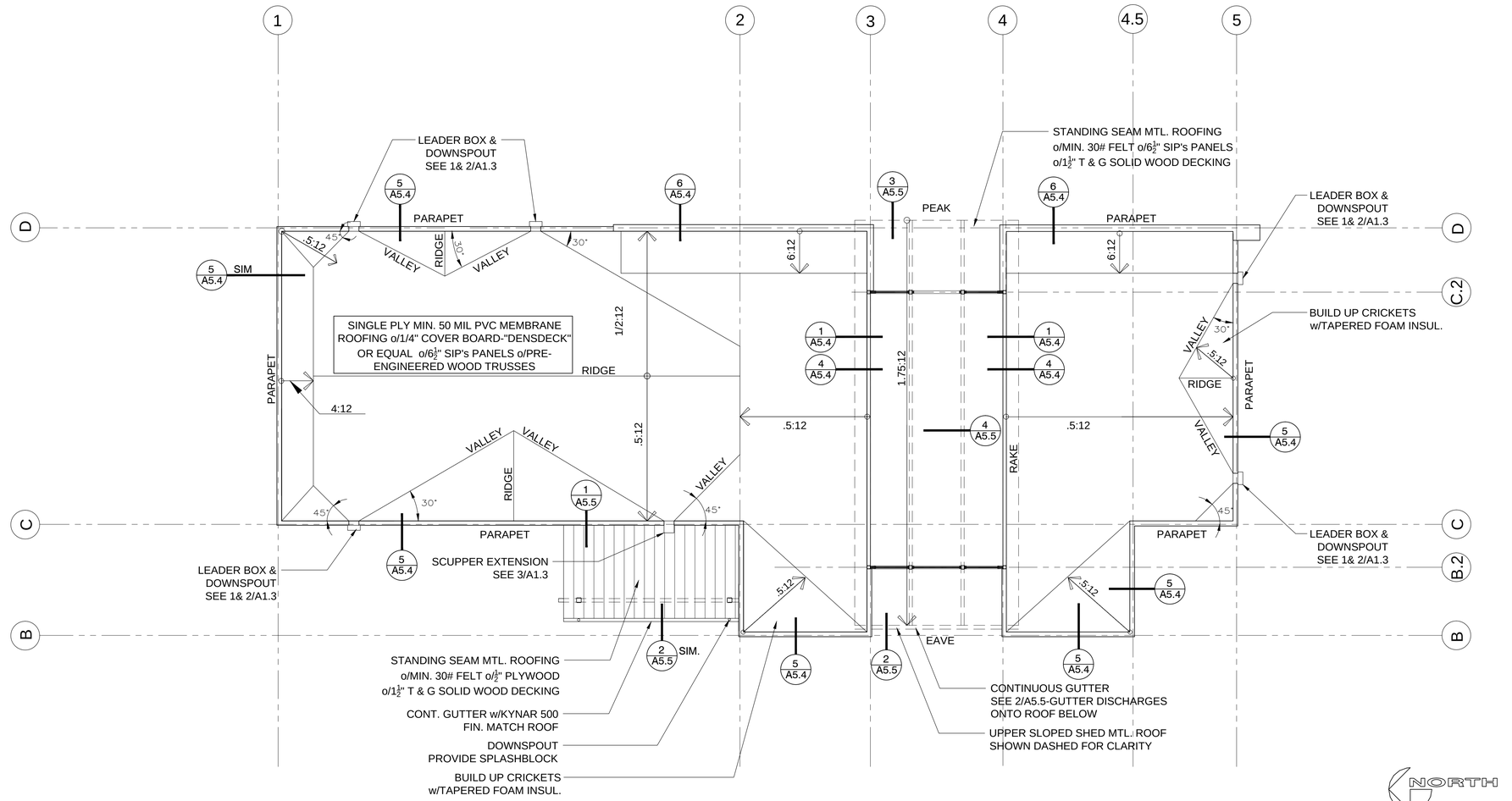


2 SCUPPER DETAIL



1 LEADER BOX ELEVATION/SECTION

NOTE: PROVIDE CONCRETE
SPLASHBLOCKS AT ALL DOWNSPOUTS



ROOF PLAN

NORTH

1/8" = 1'-0"

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FORREST CITY
NEW CITY HALL

ISSUE / DATE	
DATE	DESCRIPTION

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CONSTRUCTION DOCUMENTS

DRAWN BY: GLA
CHECKED BY: GLA

ROOF PLAN
NOVEMBER 8, 2016

A1.3

KEYNOTES

4.2 BRICK VENEER

5.1 EXPOSED STRUCTURAL STEEL
PAINT PER SPECIFICATIONS

6.1 2x6 FRAMING @ 16" O.C. PER S.D.

6.2 PRE-ENGINEERED WOOD ROOF TRUSSES
PER S.D.

6.3 2x6 T & G SOLID WOOD DECKING PER S.D.
w/FACTORY APPLIED STAIN

7.1 METAL WALL PANELS SHALL BE MIN. 24
GA. GALV. STEEL w/KYNAR 500
FINISH COAT. PANELS SHALL BE
SYMMETRICAL RIB, EXPOSED FASTENER
7.2 PANELS BY PAC-CLAD PETERSEN OR EQUAL.

7.2 'TYVEK' OR EQUAL BUILDING WRAP
AS SPEC.

7.3 2" SPRAY APPLIED CLOSED CELL
POLYURETHANE INSULATION-APPLY
TO INTERIOR FACE OF PLYWOOD SHEATH.

7.4 MIN. 50 MIL SINGLE PLY PVC MEMBRANE
ROOFING o/$\frac{1}{2}$" COVER BD. o/6$\frac{1}{2}$" SIP's PANELS
o/PRE-ENGINEERED WOOD ROOF TRUSSES
PER STRUC. DWGS.

7.5 STANDING SEAM MTL. ROOF SYSTEM
o/6$\frac{1}{2}$" SIP's PANELS o/1$\frac{1}{2}$" T&G SOLID
WOOD DECKING o/STL. HSS BEAMS

7.6 METAL CAP FLASHING AT PARAPETS,
AND ALL ROOF TO WALL FLASHINGS,
LEADER BOXES, DOWNSPOUTS, FASCIA
TRIM AND ETC. SHALL BE MIN. 24 GA.
GALV. STEEL w/ KYNAR 500 FINISH

8.4 KAWNEER TRIFAB 451UT (OR EQUAL)
(CENTER) SCREW SPLINE ASSEMBLY
OUTSIDE GLAZED ALUM. FRAMING SYSTEM
w/ 2"x4 $\frac{1}{2}$" FRAMING MEMBERS DESIGNED
FOR CENTER GLAZING APPLICATIONS
w/1" INSULATED GLASS UNITS. FINISH OF
ALUMINUM SHALL BE CLEAR ANODIZED.

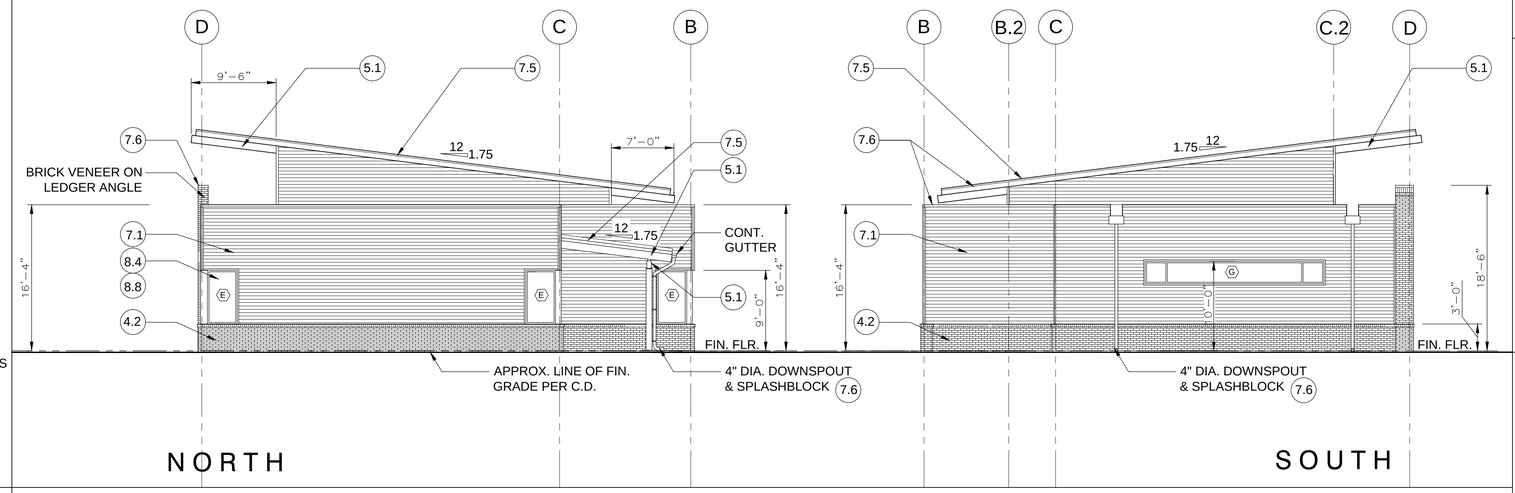
8.8 INSULATED GLASS UNITS SHALL CONSIST
OF: OUTER LITE- PPG SOLARGRAY,
$\frac{1}{2}$" AIRSPACE, INNER LITE-PPG SOLARBAN
ON CLEAR (OR EQUAL) ALL GLASS SHALL
BE TEMPERED WHERE REQUIRED BY CODE

8.9 "KAWNEER" 360 INSULCLAD - MED. STILE
EXTERIOR ALUM./GLASS DOOR OR EQUAL
w/EXIT DEVICE, CYLINDER LOCK & PULLS

9.2 $\frac{5}{8}$" GYPSUM BOARD WITH LIGHT TEXTURE
FINISH - PAINT

9.3 ACT SYSTEM - 'ARMSTRONG' BRIGHTON SERIES
OR EQUAL

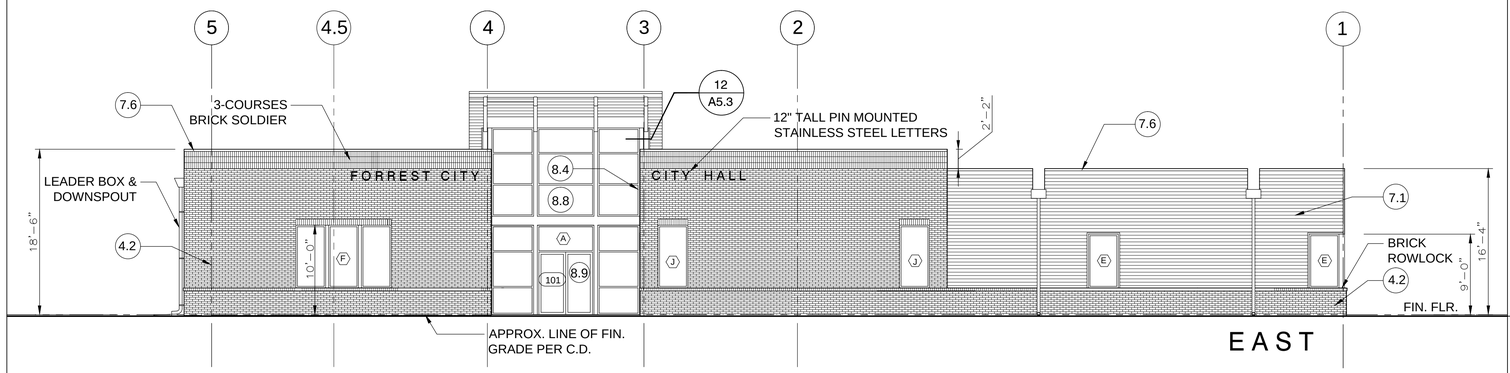
9.4 OWENS CORNING 2$\frac{1}{2}$" SOUND ATTENUATION
BATT INSULATION-TYP. AT ALL INTERIOR WALLS
AND AT THE CEILING LINE ALONG BOTH SIDES OF
THE CORRIDOR - INSTALL A 16" WIDE CONTINUOUS
STRIP LAID HORIZONTALLY ALONG THE TOP OF
THE WALL



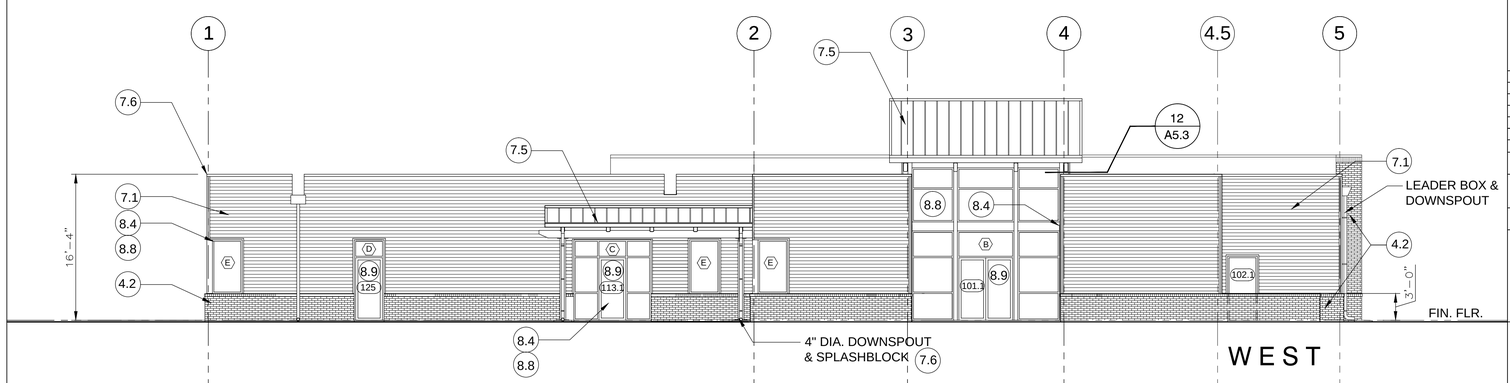
NORTH

SOUTH

4 KEYNOTES



EAST



WEST

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STATE OF ARKANSAS
11.02.2016

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

FORREST CITY NEW CITY HALL

FORREST CITY, AR

ISSUE / DATE	
DATE	DESCRIPTION
PROJECT NO.	163902CFC
PROJECT PHASE	CONSTRUCTION DOCUMENTS
DRAWN BY: GLA	CHECKED BY: GLA

EXTERIOR ELEVATIONS

NOVEMBER 8, 2016

A2.1

KEYNOTES

4.2 BRICK VENEER

5.1 EXPOSED STRUCTURAL STEEL PAINT PER SPECIFICATIONS

6.1 2x6 FRAMING @ 16" O.C. PER S.D.

6.2 PRE-ENGINEERED WOOD ROOF TRUSSES PER S.D.

6.3 2x6 T & G SOLID WOOD DECKING PER S.D. w/FACTORY APPLIED STAIN

7.1 METAL WALL PANELS SHALL BE MIN. 24 GA. GALV. STEEL w/KYNAR 500 FINISH COAT. PANELS SHALL BE SYMMETRICAL RIB, EXPOSED FASTENER 7.2 PANELS BY PAC-CLAD PETERSEN OR EQUAL.

7.2 'TYVEK' OR EQUAL BUILDING WRAP AS SPEC.

7.3 2" SPRAY APPLIED CLOSED CELL POLYURETHANE INSULATION-APPLY TO INTERIOR FACE OF PLYWOOD SHEATH.

7.4 MIN. 50 MIL SINGLE PLY PVC MEMBRANE ROOFING o/$\frac{1}{4}$" COVER BD. o/6$\frac{1}{2}$" SIP's PANELS o/PRE-ENGINEERED WOOD ROOF TRUSSES PER STRUC. DWGS.

7.5 STANDING SEAM MTL. ROOF SYSTEM o/6$\frac{1}{2}$" SIP's PANELS o/1$\frac{1}{2}$" T&G SOLID WOOD DECKING o/STL. HSS BEAMS

7.6 METAL CAP FLASHING AT PARAPETS, AND ALL ROOF TO WALL FLASHINGS, LEADER BOXES, DOWNSPOUTS, FASCIA TRIM AND ETC. SHALL BE MIN. 24 GA. GALV. STEEL w/ KYNAR 500 FINISH

8.4 KAWNEER TRIFAB 451UT (OR EQUAL) (CENTER) SCREW SPLINE ASSEMBLY OUTSIDE GLAZED ALUM. FRAMING SYSTEM w/ 2"x4 $\frac{1}{2}$" FRAMING MEMBERS DESIGNED FOR CENTER GLAZING APPLICATIONS w/1" INSULATED GLASS UNITS. FINISH OF ALUMINUM SHALL BE CLEAR ANODIZED.

8.8 INSULATED GLASS UNITS SHALL CONSIST OF: OUTER LITE- PPG SOLARGRAY, $\frac{1}{2}$" AIRSPACE, INNER LITE-PPG SOLARBAN ON CLEAR (OR EQUAL) ALL GLASS SHALL BE TEMPERED WHERE REQUIRED BY CODE

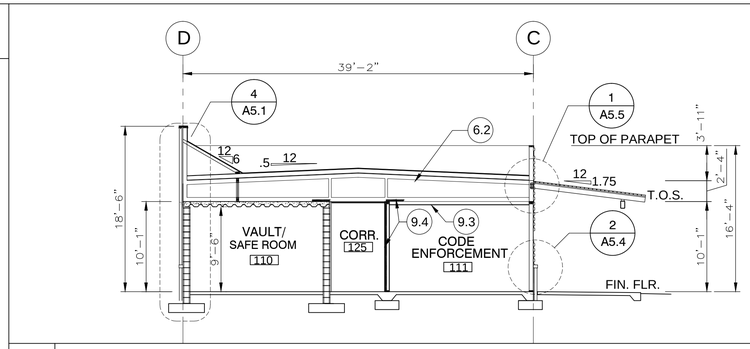
8.9 "KAWNEER" 360 INSULCLAD - MED. STILE EXTERIOR ALUM./GLASS DOOR OR EQUAL w/EXIT DEVICE, CYLINDER LOCK & PULLS

9.2 $\frac{5}{8}$" GYPSUM BOARD WITH LIGHT TEXTURE FINISH - PAINT

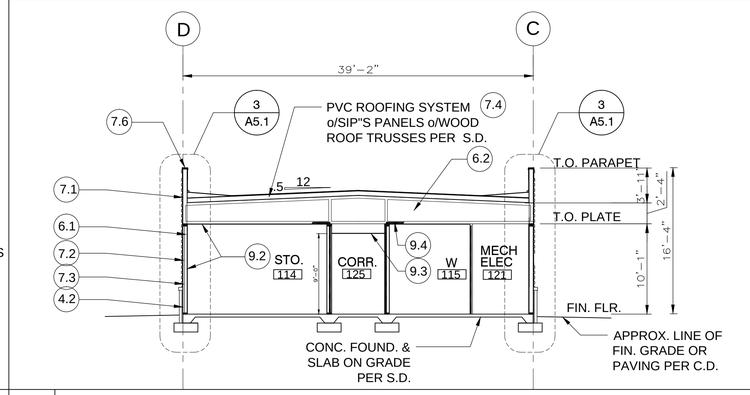
9.3 ACT SYSTEM - 'ARMSTRONG' BRIGHTON SERIES OR EQUAL

9.4 OWENS CORNING 2$\frac{1}{2}$" SOUND ATTENUATION BATT INSULATION-TYP. AT ALL INTERIOR WALLS AND AT THE CEILING LINE ALONG BOTH SIDES OF THE CORRIDOR - INSTALL A 16" WIDE CONTINUOUS STRIP LAID HORIZONTALLY ALONG THE TOP OF THE WALL

4 KEYNOTES



4A BUILDING SECTION



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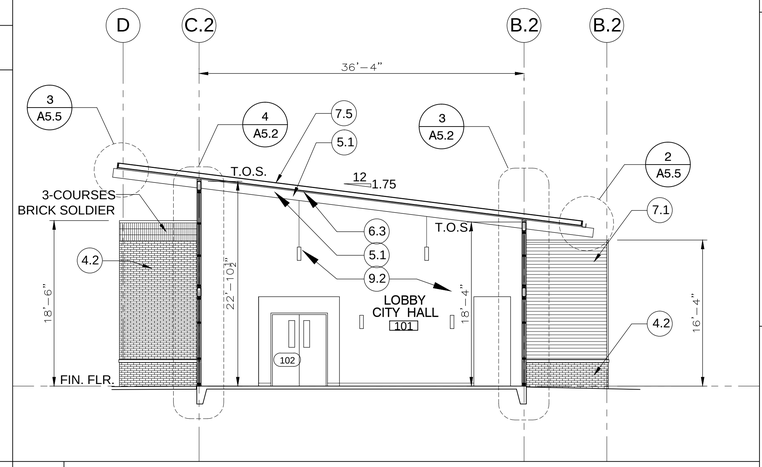

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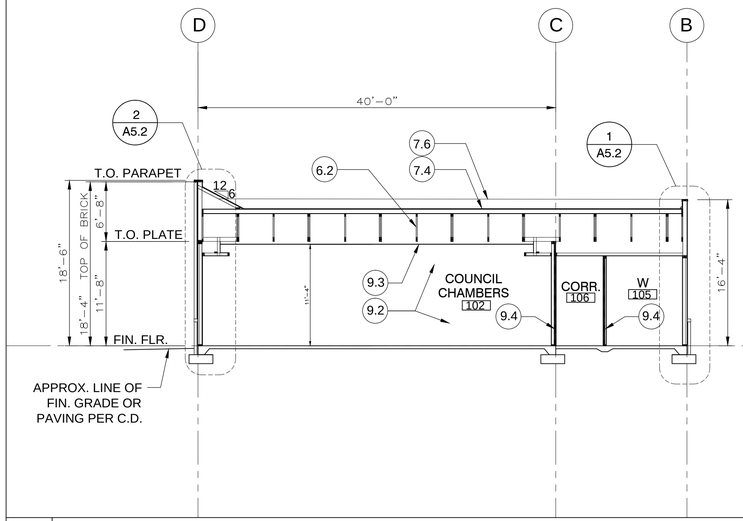

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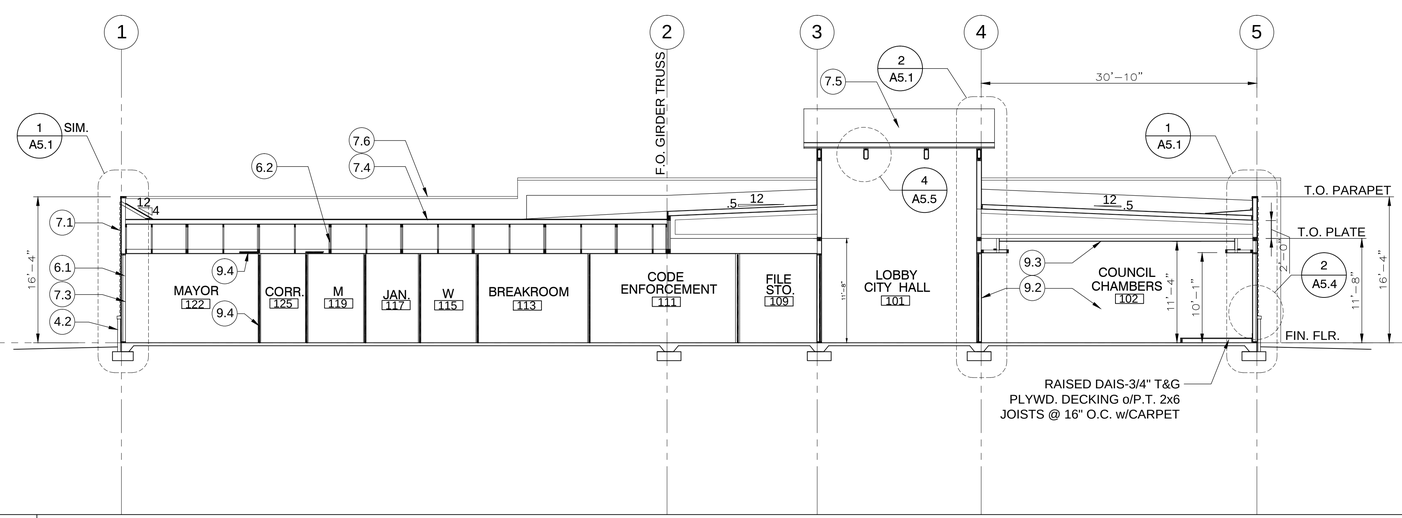

1 BUILDING SECTION

GEOTECHNICAL ENGINEER
MTA Engineers
A Division of Material Testings of Arkansas
P.O. Box 23715
Little Rock, AR 72221
Ph. 501.753.2526
Fax. 501.753.5747

REGISTERED ARCHITECTS — ETC Engineers & Architects, Inc. — No. C-462 — ARKANSAS

REGISTERED ARCHITECT — GERALD MYERS — License Number 4544 — STATE OF ARKANSAS — 11.09.2016

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BUILDING SECTIONS
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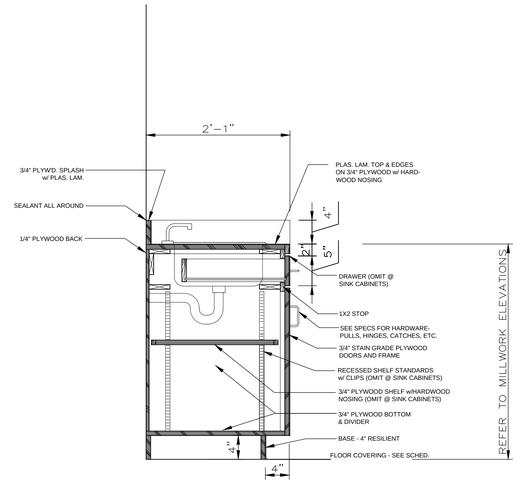
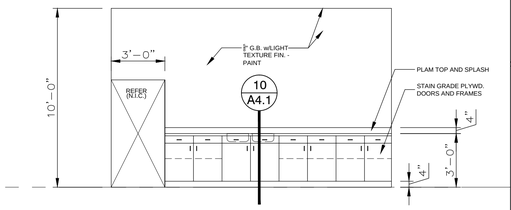
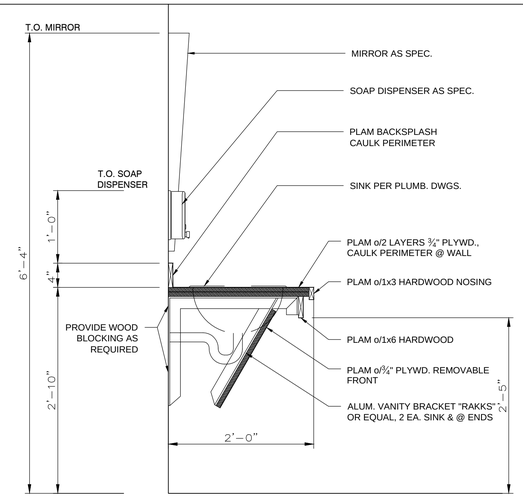
A3.1



10 CABINET DETAIL

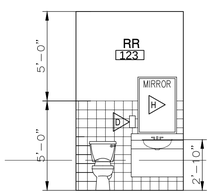


9 BREAKROOM CABINET ELEVATION



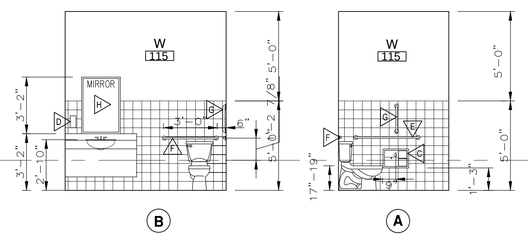
8 VANITY DETAIL

1" = 1'-0"



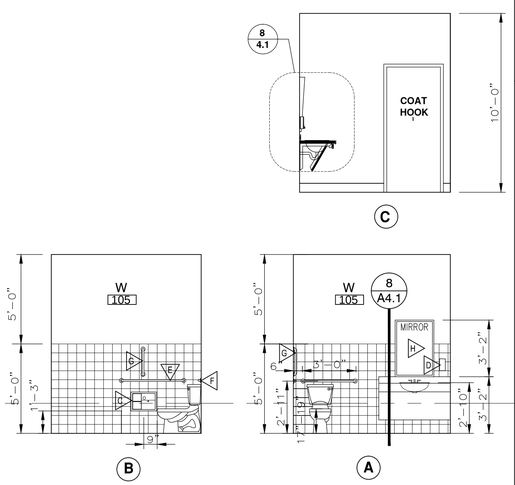
7 INTERIOR ELEVATIONS

1/4" = 1'-0"



6 INTERIOR ELEVATIONS

1/4" = 1'-0"



5 INTERIOR ELEVATIONS

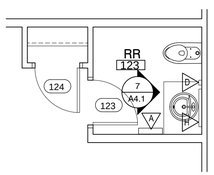
1/4" = 1'-0"

ACCESSORY SCHEDULE

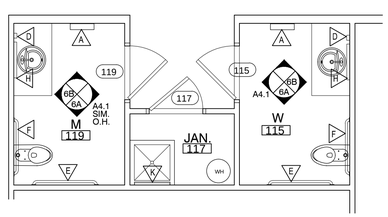
A	HAND DRYER-BOBRICK - B7128 @ 43⅞" A.F.F.
B	RECESSED MOUNTED SINGLE ROLL TOILET TISSUE DISPENSER - BOBRICK B-, MOUNT @ 24" AFF
C	RECESSED MOUNTED COMBINATION SANITARY NAPKIN DISPOSAL TOILET TISSUE DISPENSER BOBRICK B- MOUNT TOP @ 28" AFF
D	SURFACE MOUNTED SOAP DISPENSER - BOBRICK B-2111 MOUNT TOP @ 50" AFF
E	STSTL. 42" LONG GRAB BARS - BOBRICK B-5806x42 MOUNT HORIZ. CENTER @ 34" AFF
F	STSTL. 36" LONG GRAB BARS - BOBRICK B-5806x36 MOUNT HORIZ. CENTER @ 34" AFF
G	STSTL. 18" LONG GRAB BARS - BOBRICK B-5806x18 MOUNT VERT. BOT. @ 40" AFF
H	STSTL. FRAMED TILT MIRROR - BOBRICK B-293 2436 MOUNT BOT. @ 40" AFF
J	SURFACE MOUNT STSTL. HORIZONTAL BABY CHANGING STATION KOALA-HORIZONTAL KB110-SSWM MOUNT BOT. @ 32" AFF
K	STSTL. MOP HOLDER (JANITOR'S CLOSET) - BOBRICK B-223x24 MOUNT TOP @ 60" AFF
L	CLOSET ROD AND 12" MELAMINE SHELF

NOTES: 1. PROVIDE ADEQUATE BLOCKING AS REQUIRED FOR ALL INSTALLATIONS 2. COAT HOOKS ARE INCLUDED AS STANDARD HARDWARE ON "BOBRICK" PARTITIONS

4 ACCESSORY SCHEDULE



3 ENLARGED PLAN



2 ENLARGED PLAN

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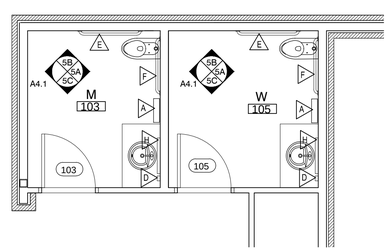

1 ENLARGED PLAN

1/4" = 1'-0"

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ENLARGED PLANS INTERIOR ELEVATIONS

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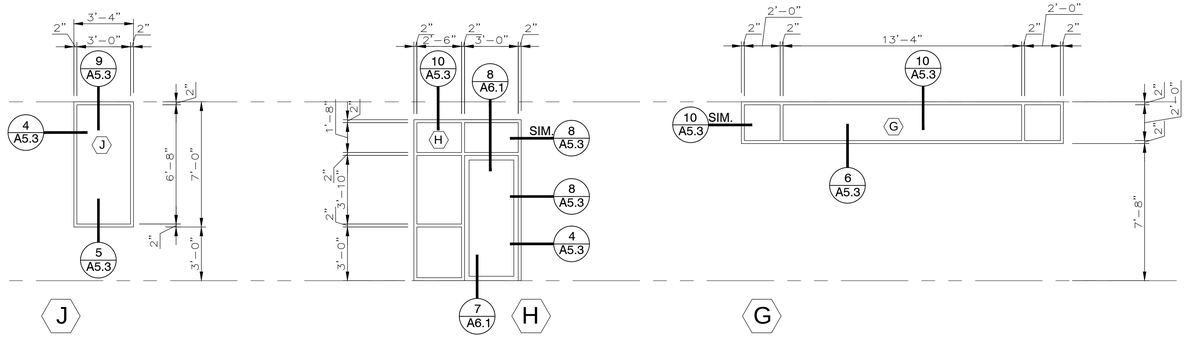
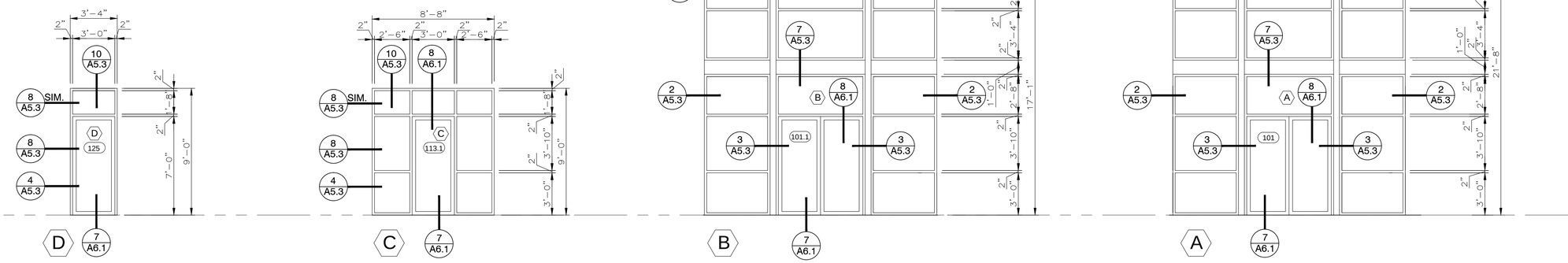
A4.1





WINDOW TYPES 1/4" = 1'-0"

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WINDOW TYPES

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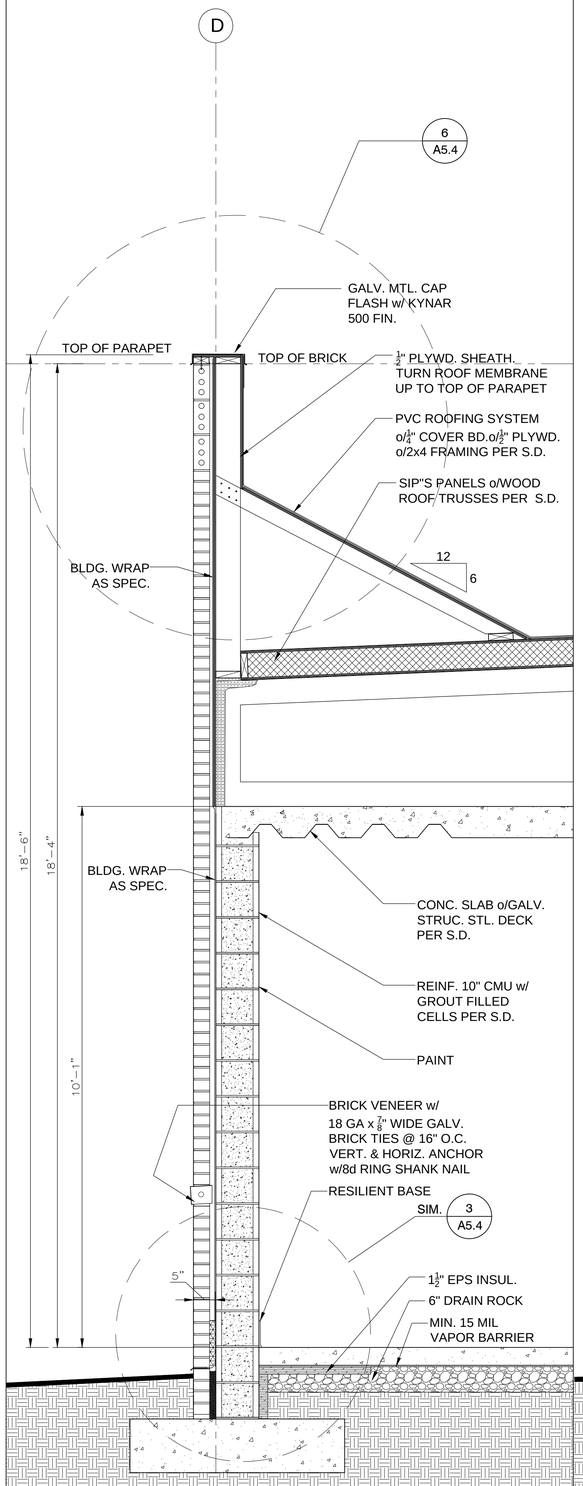
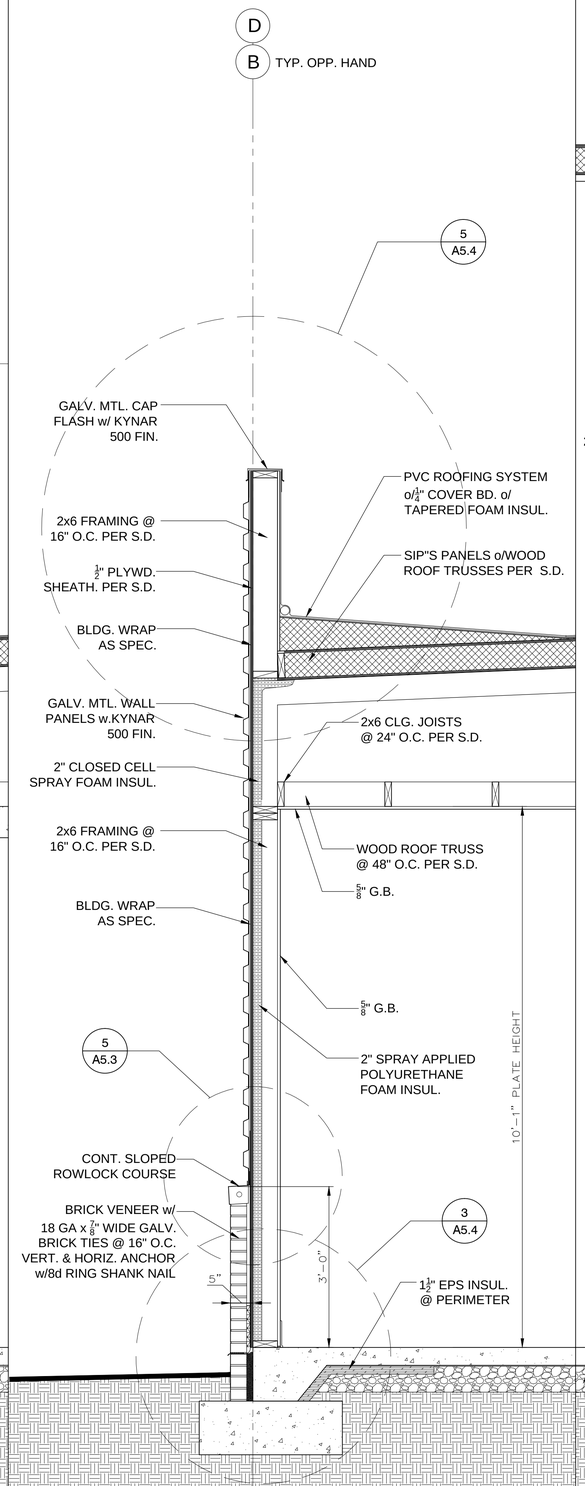
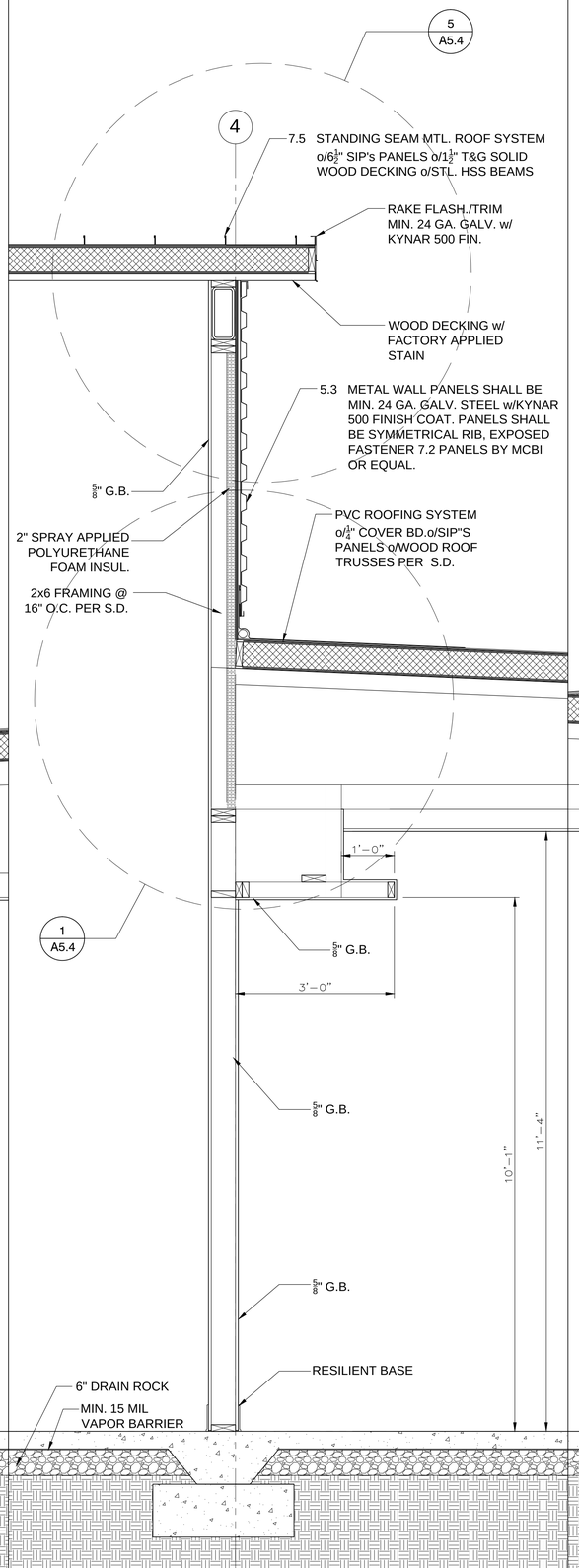
A4.2



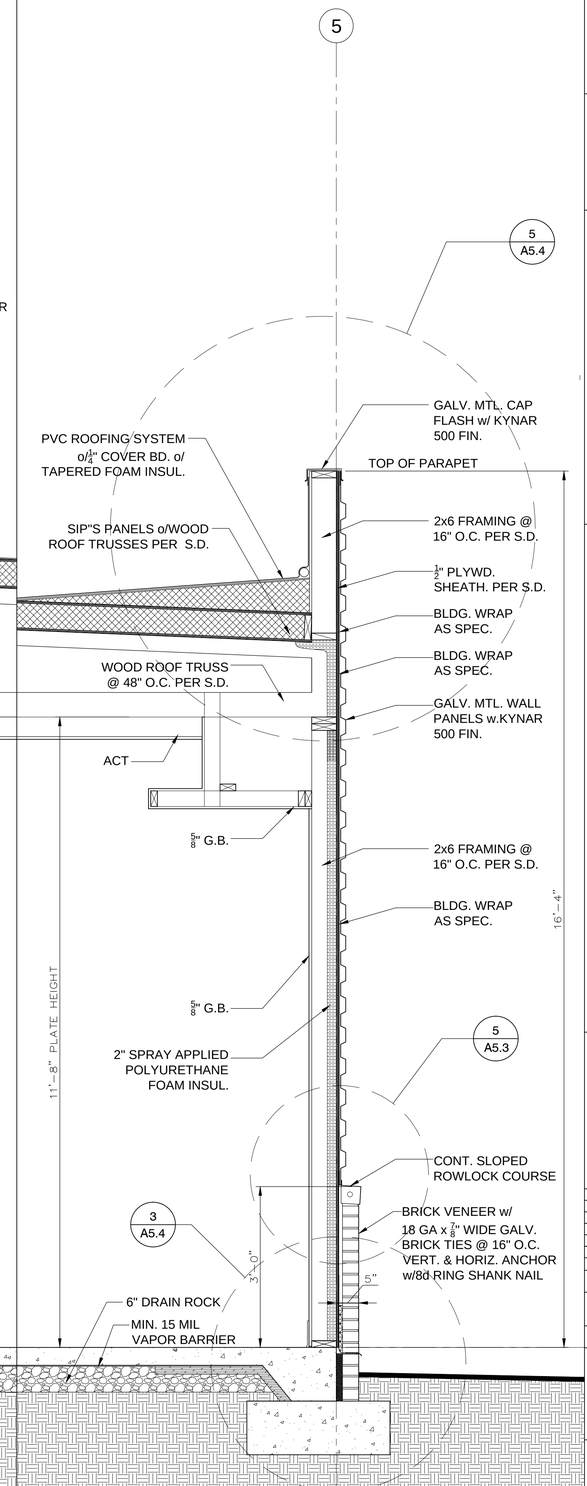
4 WALL SECTION 3/4" = 1'-0"



3 WALL SECTION 3/4" = 1'-0"



2 WALL SECTION 3/4" = 1'-0"



1 WALL SECTION 3/4" = 1'-0"

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WALL SECTIONS
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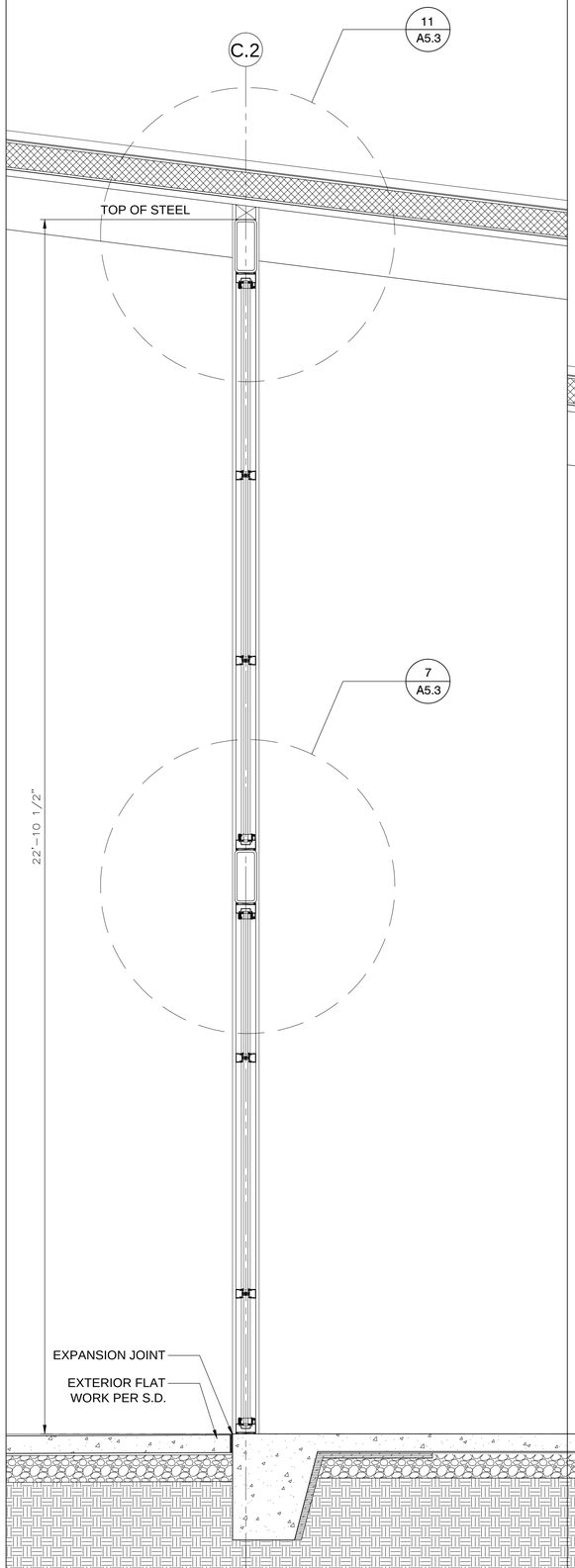
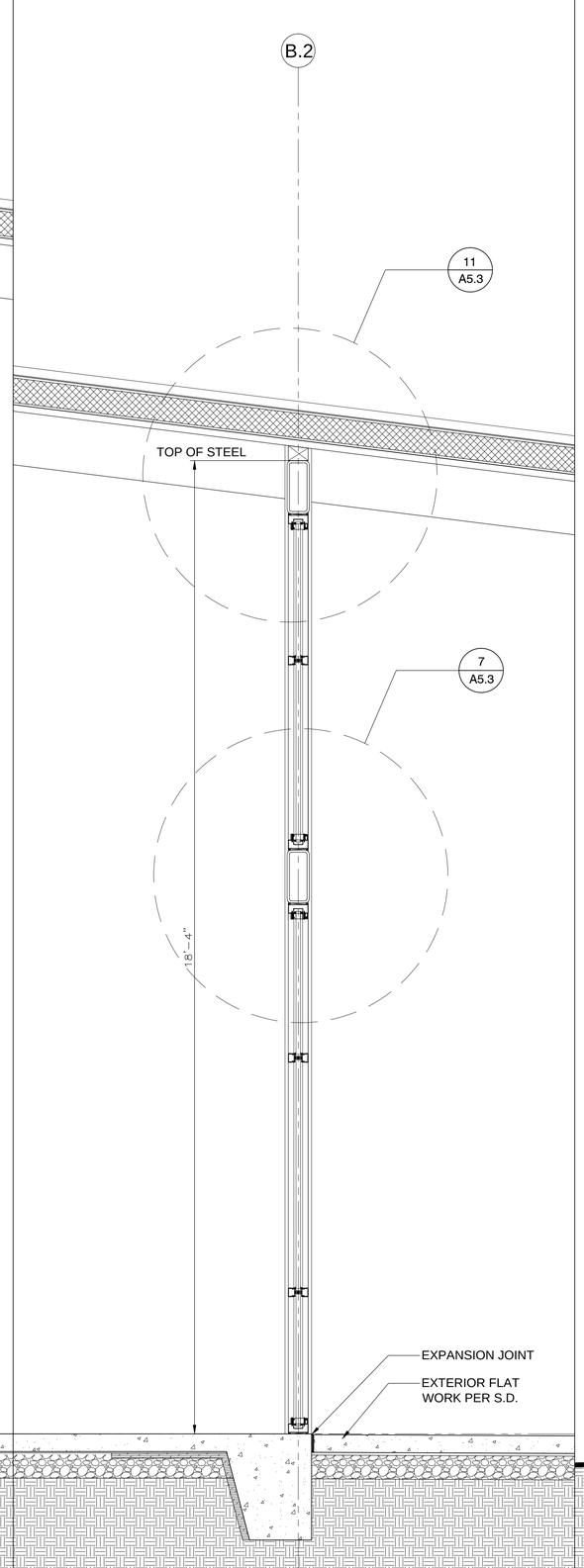
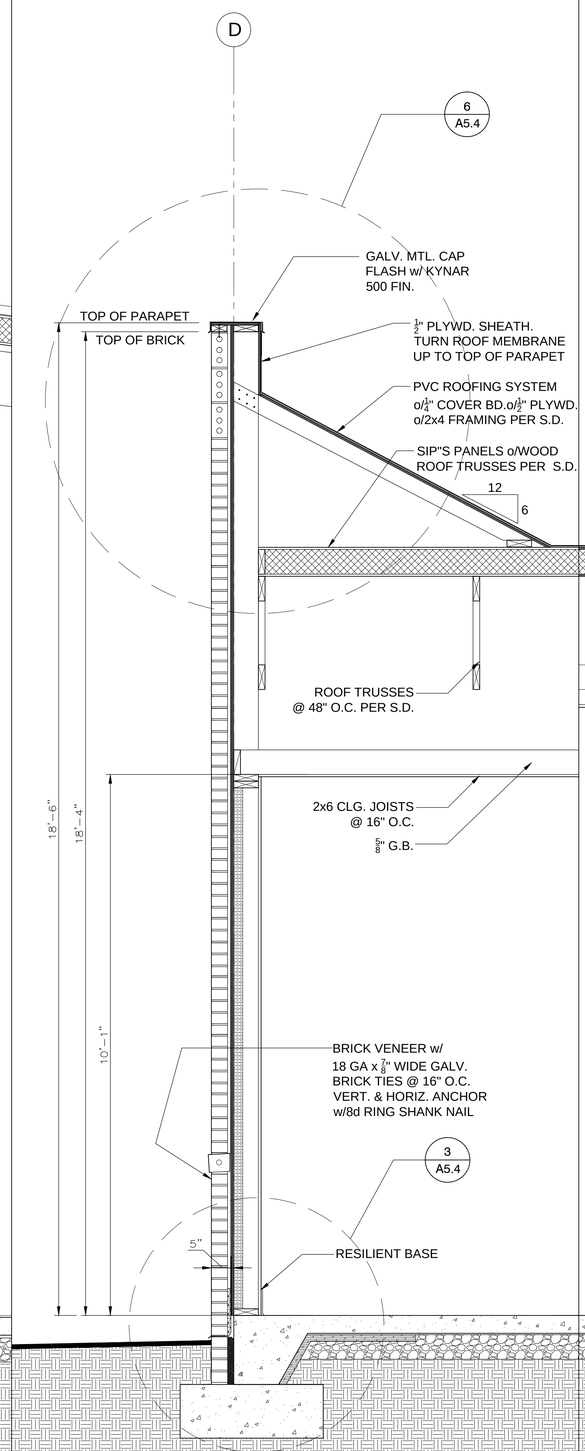
A5.1



4 WALL SECTION 3/4" = 1'-0"



3 WALL SECTION 3/4" = 1'-0"



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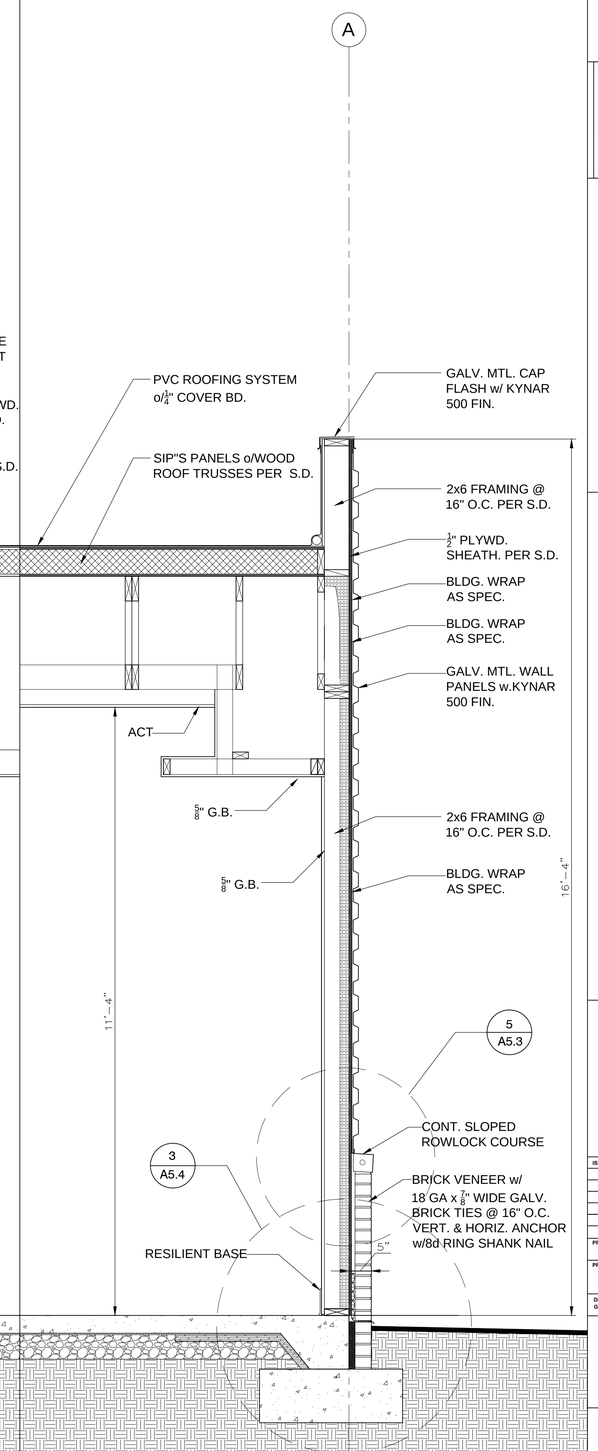

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WALL SECTIONS

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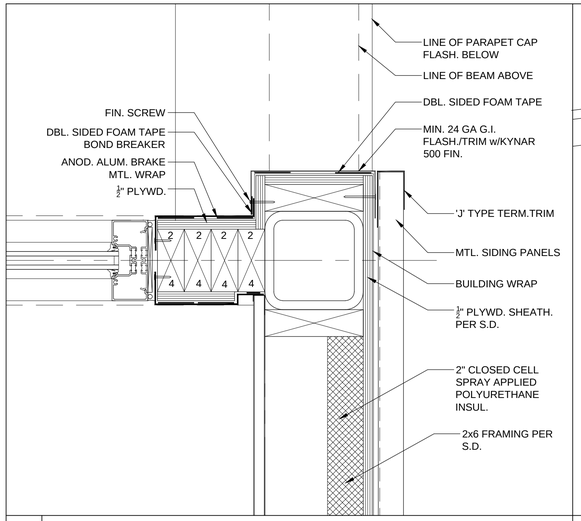
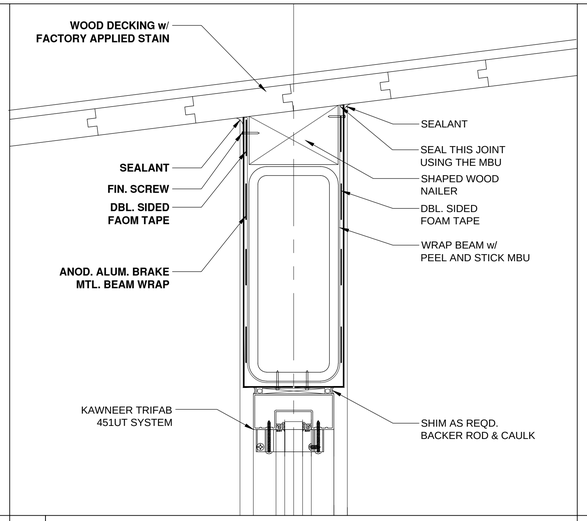
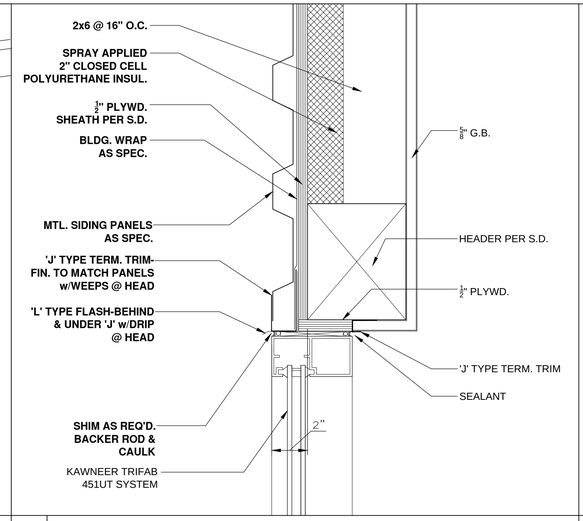
A5.2



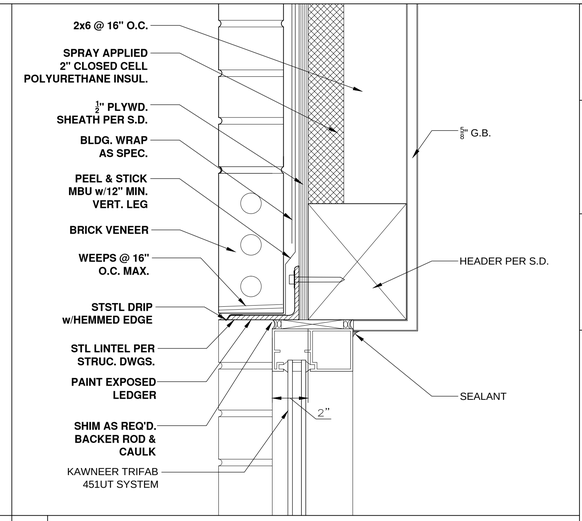
12 JAMB DETAIL



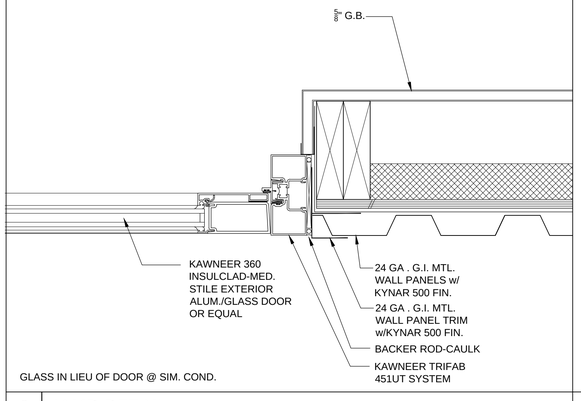
11 HEAD DETAIL



10 HEAD DETAIL /JAMB SIM.



9 HEAD DETAIL



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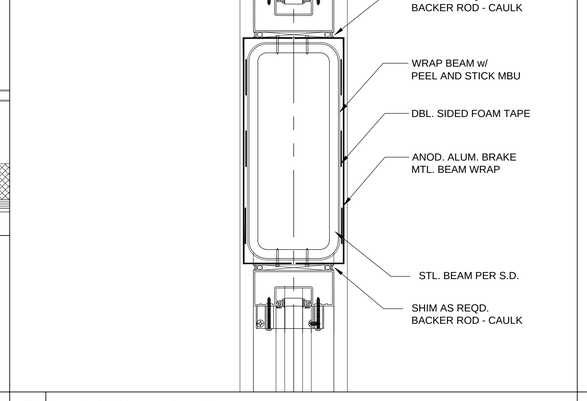
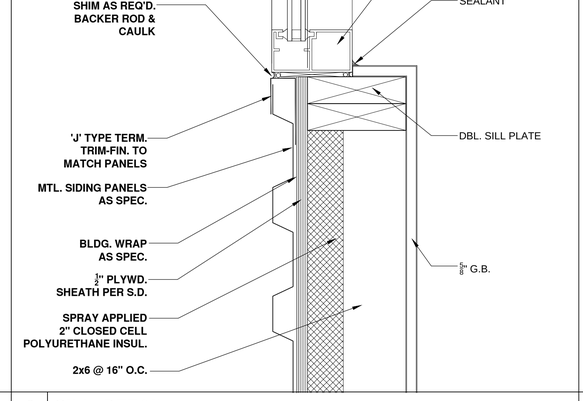


7 HEAD / SILL DETAIL



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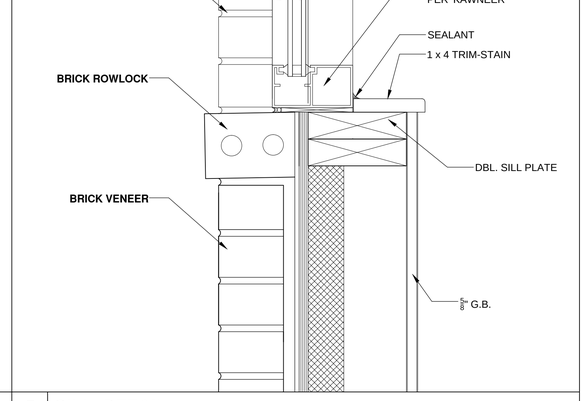
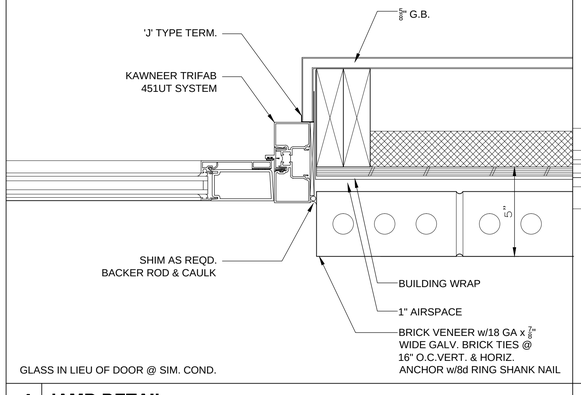


5 SILL DETAIL



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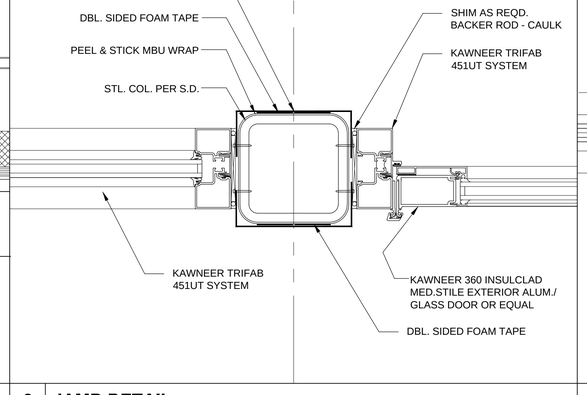

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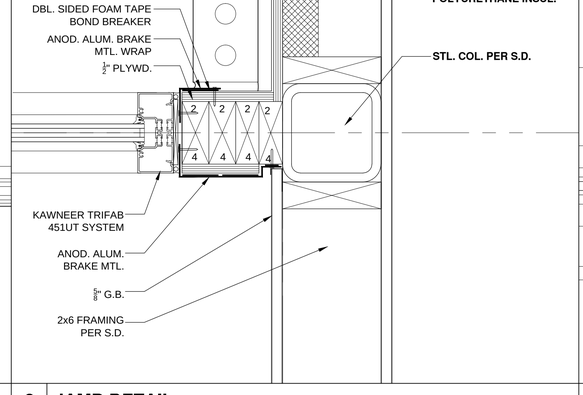
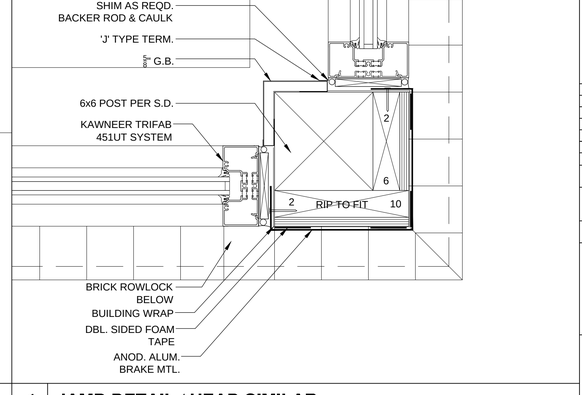


2 JAMB DETAIL



1 JAMB DETAIL / HEAD SIMILAR

3" = 1'-0"

GEOTECHNICAL ENGINEER
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REGISTERED ARCHITECTS — ETC Engineers & Architects, Inc. — No. C-462 — ARKANSAS

REGISTERED ARCHITECT — GERALD MYERS — License Number 4544 — STATE OF ARKANSAS — 11.08.2016

ETC ENGINEERS & ARCHITECTS, INC.
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BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

FORREST CITY NEW CITY HALL
FORREST CITY, AR

ISSUE / DATE

DESCRIPTION

PROJECT NO. 163902CFC

PROJECT PHASE
CONSTRUCTION DOCUMENTS

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DETAILS

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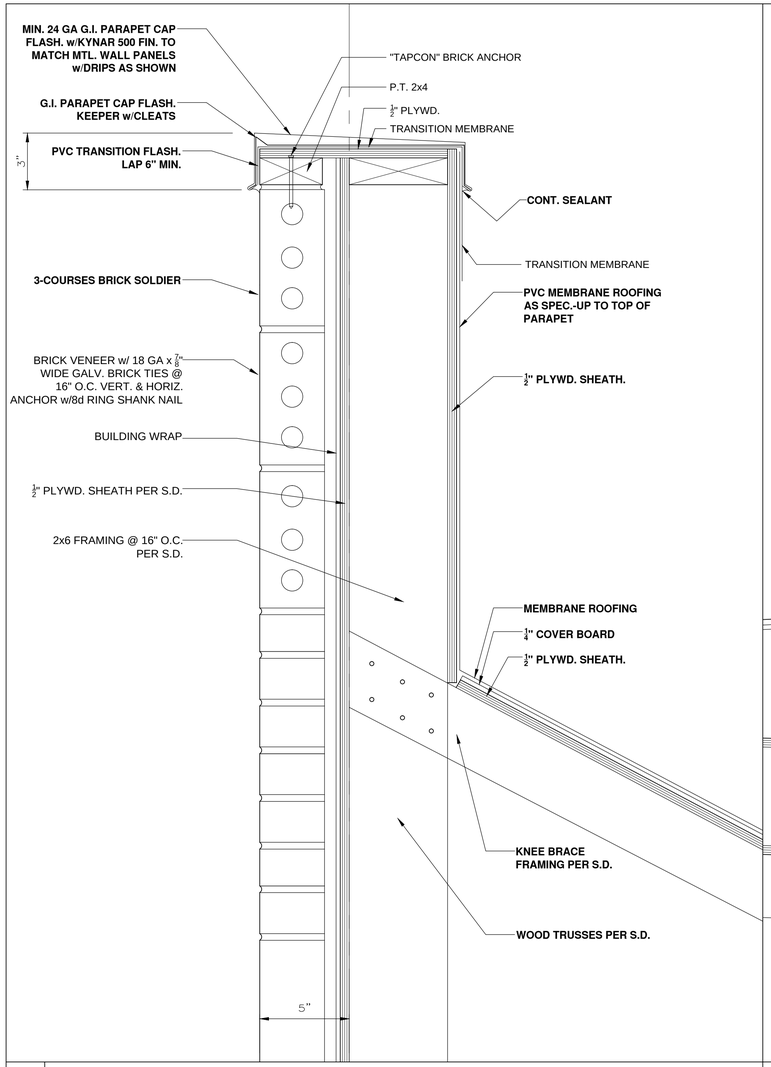
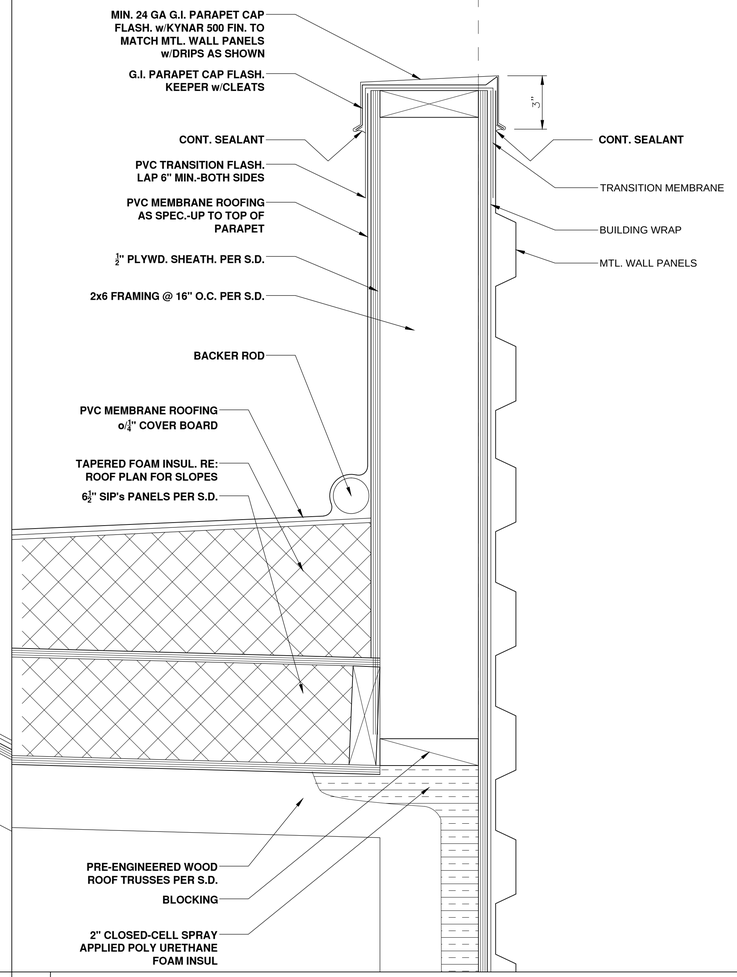
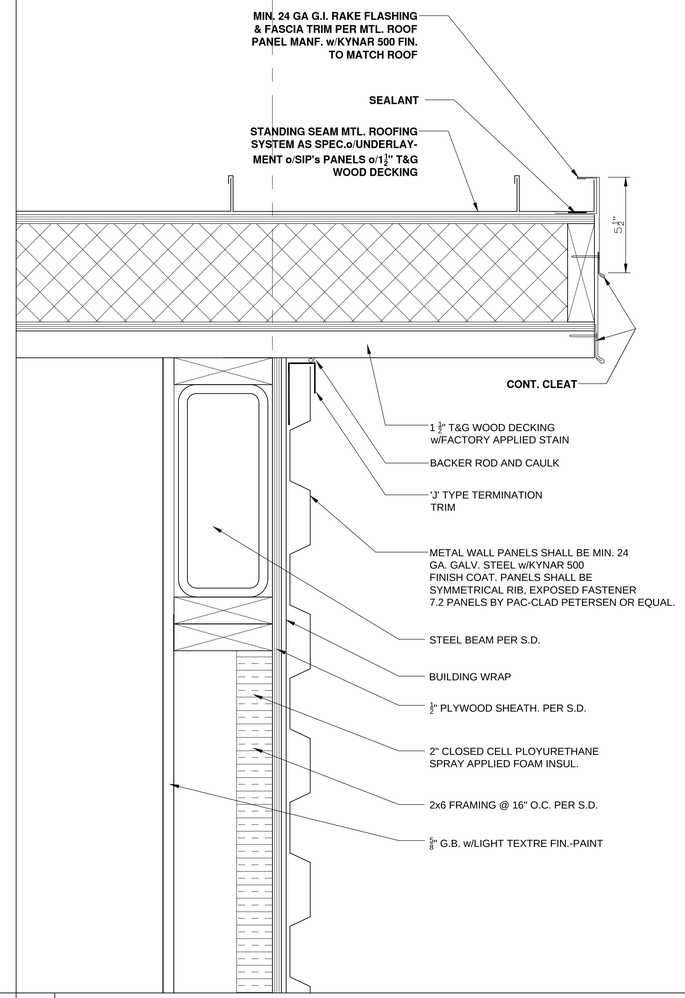
A5.3



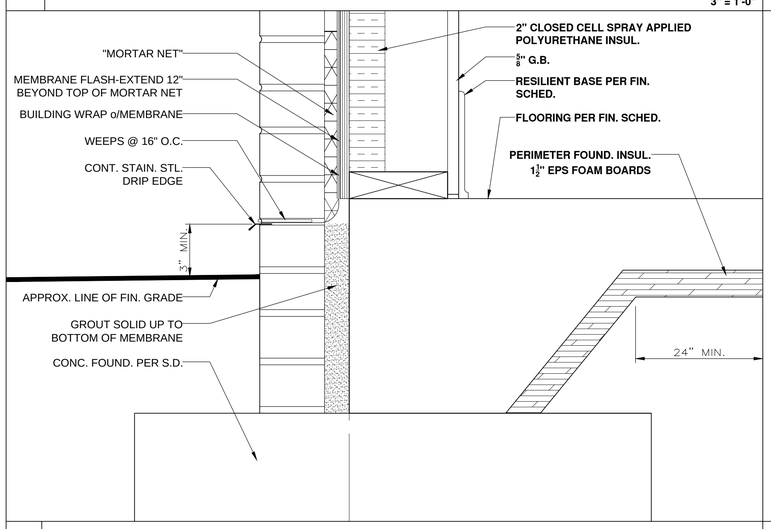
6 **PARAPET DETAIL W/BRICK** 3" = 1'-0"



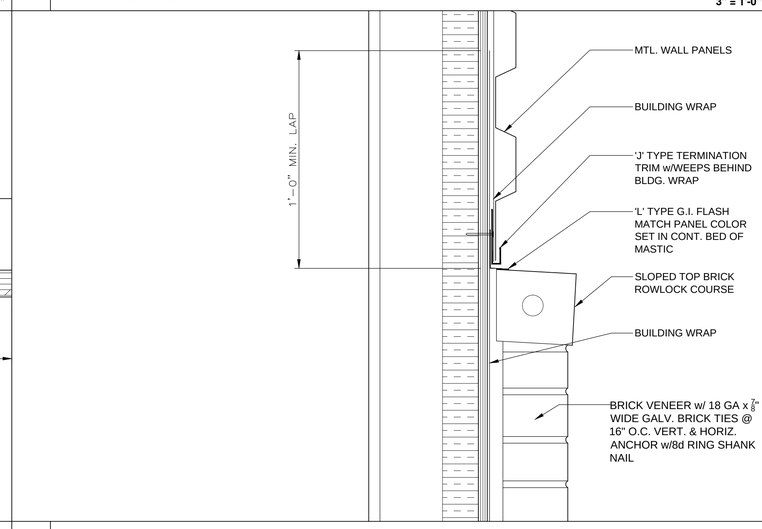
5 **PARAPET DETAIL** 3" = 1'-0"



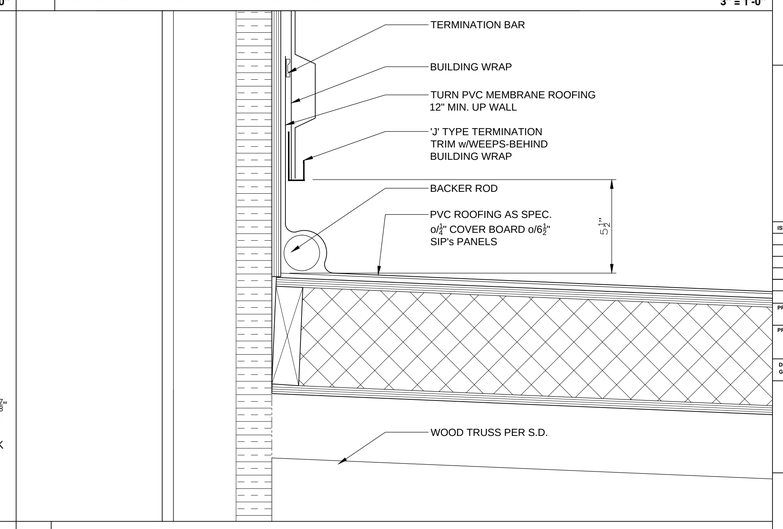
4 **SLOPED ROOF-RAKE DETAIL** 3" = 1'-0"



3 **FOUNDATION DETAIL** 3" = 1'-0"



2 **BRICK SILL DETAIL** 3" = 1'-0"



1 **ROOF TO WALL FLASHING DETAIL** 3" = 1'-0"

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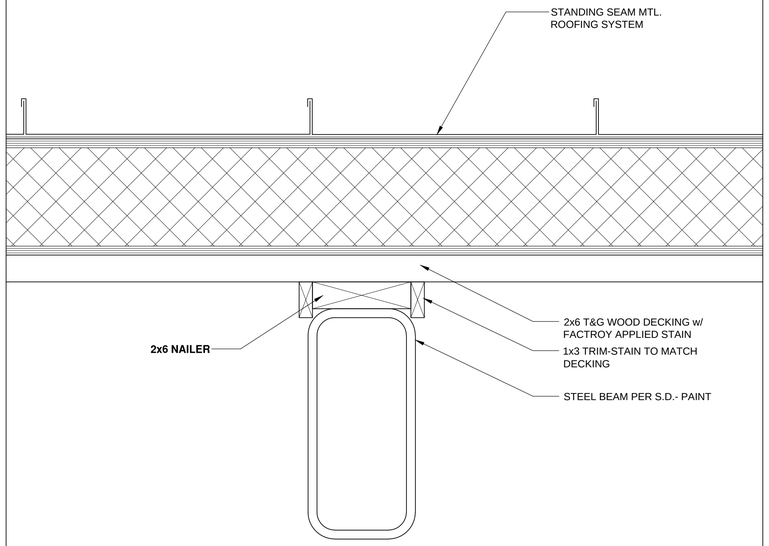
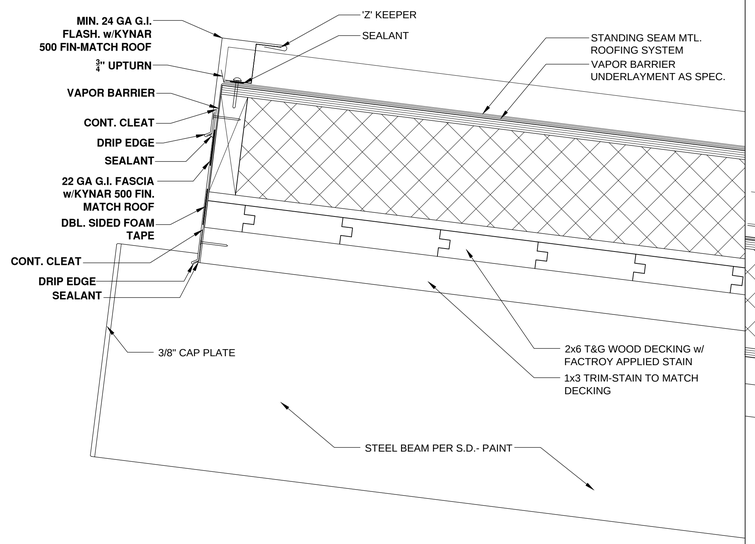
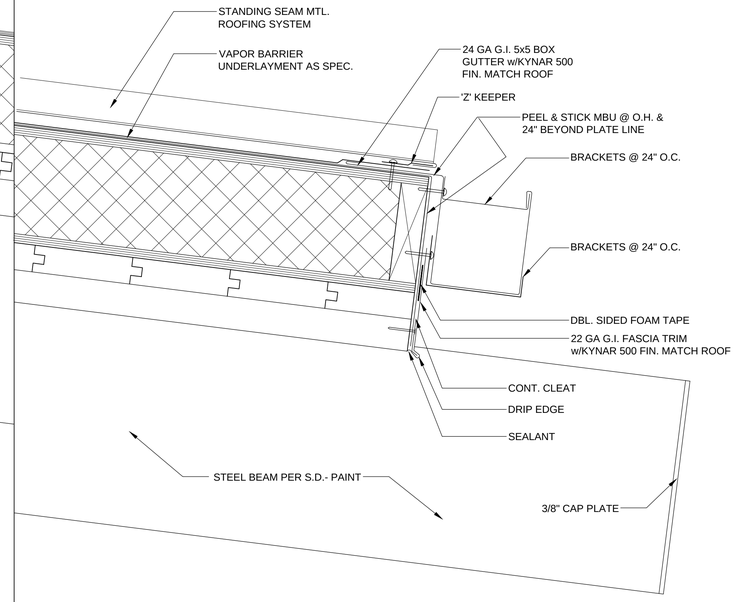


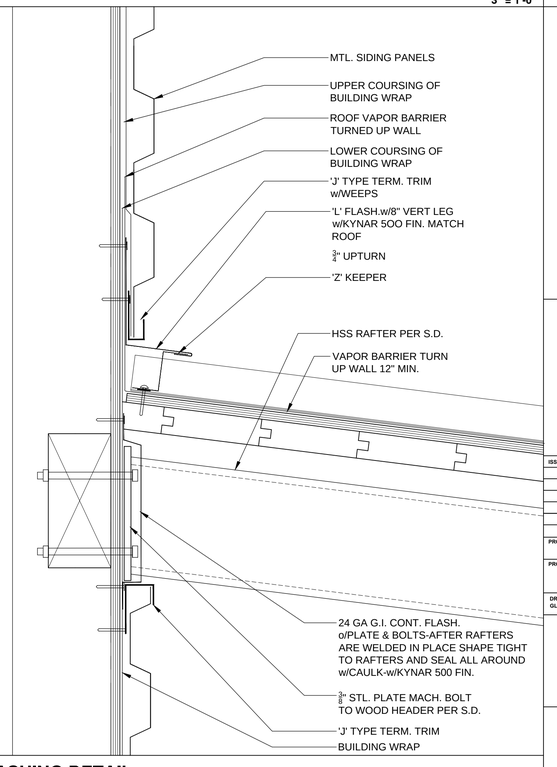
4 **ROOF DETAIL**



3 **ROOF - PEAK DETAIL**



2 **ROOF - EAVE DETAIL** 3" = 1'-0"



1 **ROOF TO WALL FLASHING DETAIL** 3" = 1'-0"

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ETC Engineers & Architects, Inc.
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REGISTERED ARCHITECT
GERALD LYERLY
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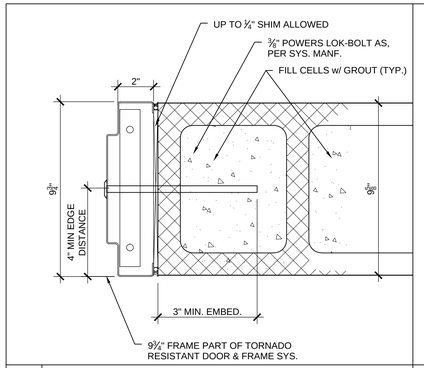
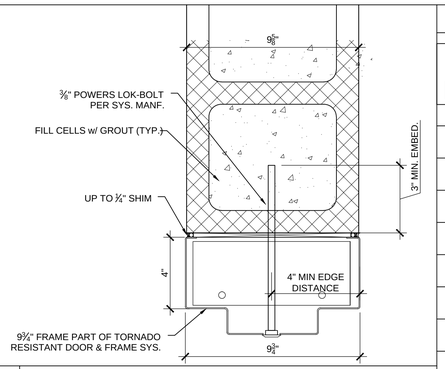
DOOR & FRAME SCHEDULE

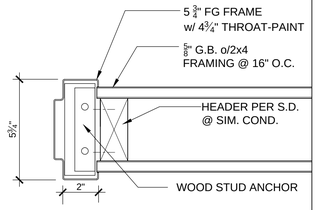
DOOR					FRAME		FIRE	FRAME DETAILS			H.W. GROUP	FINISH	REMARKS
MARK	WIDTH	HT.	MATERIAL	TYPE	TYPE	WIDTH	RATING	HEAD	JAMB	SILL	NO.		
101	6'-0"	7'-0"	ALUM./GL	1A/A6.1	MANF.	4 1/2"	NA	8/A6.1 SIM	8/A6.1	7/A6.1	1	FACTORY	WITH EXIT DEVICE AND PULL
101.1	6'-0"	7'-0"	ALUM./GL	1A/A6.1	MANF.	4 1/2"	NA	8/A6.1 SIM	8/A6.1	7/A6.1	1	FACTORY	WITH EXIT DEVICE AND PULL
101.2	3'-0"	7'-0"	ALUM./GL	1B/A6.1	MANF.	4 1/2"	NA	8/A6.1 SIM	8/A6.1	7/A6.1	8	FACTORY	WITH EXIT DEVICE AND PULL
102	6'-0"	7'-0"	S.C. WOOD	2A/A6.1	3A/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	2	PAINT FRAME/STAIN DOOR	WITH EXIT DEVICE AND PULL
102.1	3'-0"	7'-0"	INSUL. HM	2B/A6.1	3B/A6.1	7 3/4"	NA	6/A6.1 SIM.	4 & 6/A6.1	5/A6.1	3	PAINT	WITH EXIT DEVICE AND PULL
103	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	4	PAINT FRAME/STAIN DOOR	
104	4'-0"	7'-0"	S.C. WOOD	2C/A6.1	3C/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	5	PAINT FRAME/STAIN DOOR	
105	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	4	PAINT FRAME/STAIN DOOR	
106	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	6	PAINT FRAME/STAIN DOOR	
107	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
108	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
108.1	3'-0"	7'-0"	INSUL. H.M.	2B/A6.1	3B/A6.1	9 3/4"	NA	11/A6.1	12/A6.1	5/A6.1 SIM.	9	PAINT	TORNADO RESISTANT DOOR FRAME, & HARDWARE SYSTEM
109	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
110	3'-0"	7'-0"	INSUL. H.M.	2B/A6.1	3B/A6.1	9 3/4"	NA	11/A6.1	12/A6.1	5/A6.1 SIM.	9	PAINT	TORNADO RESISTANT DOOR FRAME, & HARDWARE SYSTEM
111	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
112	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
113	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
113.1	3'-0"	7'-0"	ALUM./GL	1B/A6.1	MANF.	4 1/2"	NA	8/A6.1 SIM	8/A6.1	7/A6.1	8	FACTORY	WITH EXIT DEVICE AND PULL
114	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
115	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	4	PAINT FRAME/STAIN DOOR	
116	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
117	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
118	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
119	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	4	PAINT FRAME/STAIN DOOR	
120	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
120.1	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	7 3/4"	NA	9/A6.1 SIM.	9/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
122	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
123	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
124	3'-0"	7'-0"	S.C. WOOD	2B/A6.1	3B/A6.1	5 3/4"	NA	10/A6.1 SIM.	10/A6.1	5/A6.1 SIM.	7	PAINT FRAME/STAIN DOOR	
125	3'-0"	7'-0"	ALUM./GL	1B/A6.1	MANF.	4 1/2"	NA	8/A6.1 SIM	8/A6.1	7/A6.1	8	FACTORY	WITH EXIT DEVICE AND PULL



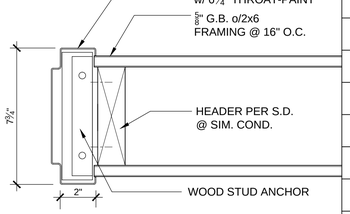
12 JAMB 3" = 1'-0"



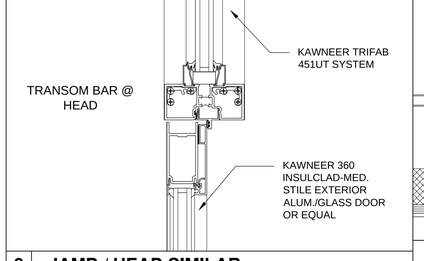
11 HEAD 3" = 1'-0"



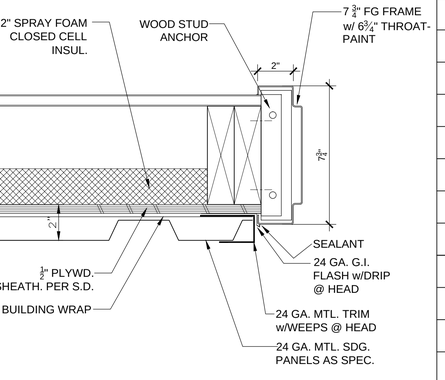
10 JAMB / HEAD SIM. 3" = 1'-0"



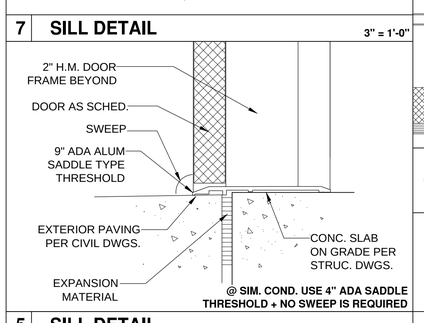
9 JAMB / HEAD SIM. 3" = 1'-0"



8 JAMB / HEAD SIMILAR 3" = 1'-0"

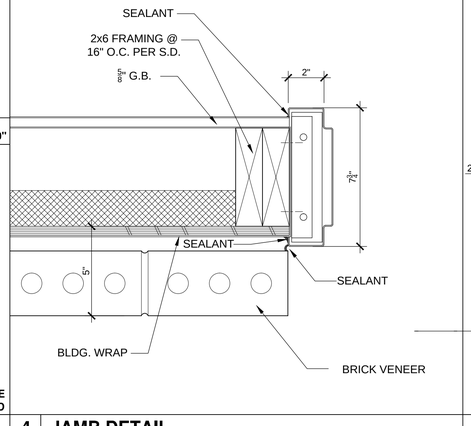


6 JAMB DETAIL / HEAD SIMILAR 3" = 1'-0"

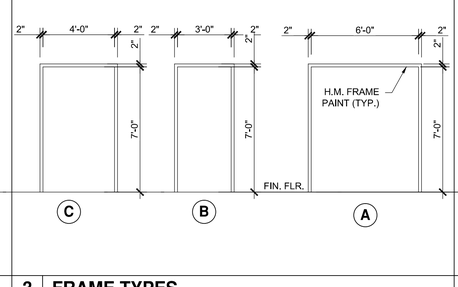


7 SILL DETAIL 3" = 1'-0"

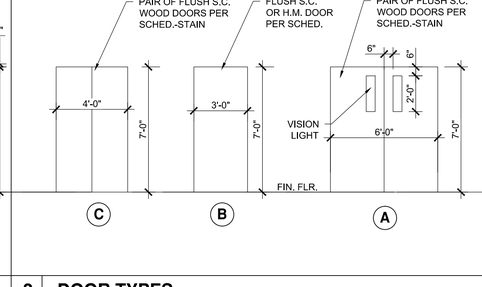
5 SILL DETAIL 3" = 1'-0"



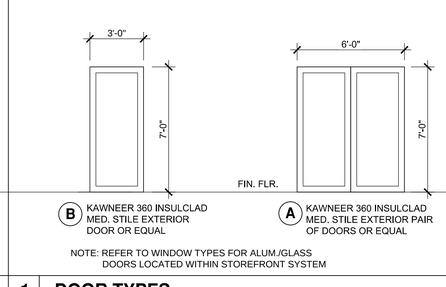
4 JAMB DETAIL 3" = 1'-0"



3 FRAME TYPES 1/4" = 1'-0"



2 DOOR TYPES 1/4" = 1'-0"



NOTE: REFER TO WINDOW TYPES FOR ALUM./GLASS DOORS LOCATED WITHIN STOREFRONT SYSTEM

1 DOOR TYPES 1/4" = 1'-0"

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DOOR SCHEDULE DETAILS

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A6.1

MATERIAL REFERENCE KEY

REF. NO.	ITEM	MANUFACTURER	REMARKS
1	FINISHED CONCRETE w/APPLIED SEALER		NOTE - 1
2	STAINED CONCRETE WITH APPLIED ACRYLIC SEALER		NOTE - 2
3	CARPET	MOHAWK GROUP OR EQUAL	NOTE - 3
4	6" COVED RESILIENT BASE.	JOHNSONITE OR EQUAL	
5	BRICK VENEER		
6	GYPSUM BOARD WITH LIGHT TEXTURE FIN.-PAINT		NOTE - 4
7	2 x 2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM	ARMSTRONG CEILINGS OR EQUAL	NOTE - 7
8	ANOD. ALUM. FRAME w/1" INSUL. GLASS	KAWNEER/PPG OR EQUAL	
9	T&G SOLID WOOD DECKING w/STAIN PER MANF.		NOTE - 8
10	CERAMIC TILE WAINSCOT o/TILE BACKER BOARD TO 5'-0" HEIGHT	DALTILE OR EQUAL	NOTE - 5
11	FRP PANELS TO 5'-0" HEIGHT o/TILE BACKER BOARD	MARLITE - STANDARD OR EQUAL	
12	PAINTED CMU		NOTE - 6
13	METAL DECKING - UNFINISHED		

NOTES:

1. CONCRETE FLOORS THAT ARE NOT STAINED SHALL RECIVE 2-COATS PREMIUM, CLEAR, ACRYLIC SEALER
2. STAINED CONCRETE FLOORS SHALL HAVE A WATER BASED REACTIVE PENETRATING STAIN APPLIED - SEAL w/2-COATS PREMIUM, CLEAR, ACRYLIC SEALER.
3. MOHAWK GROUP ARTIST SERIES OR EQUAL BROADLOOM CARPET
4. 5/8" GYPSUM BOARD DRYWALL WITH LIGHT TEXTURE (ORANGE PEEL) FINISH - PAINT WITH LATEX PRIMER AND 2-TOPCOATS INTERIOR EGG SHELL LATEX
5. CERAMIC TILE SHALL BE 2x2 MOSAICS "KEYSTONE" BY DALTILE OR EQUAL-MANF. STANDARD COLOR w/BULLNOSE AT TOP TERMINATION
6. INTERIOR CMU TO RECEIVE PAINT SHALL FIRST BE PRIMED w/ONE COAT OF LATEX PRIMER 1.1 MILS DFT. THE FINISH COAT SHALL BE 2-COATS LATEX
7. 2 x 2 SUSPENDED ACT SYSTEM - ARMSTRONG CEILING BRIGHTON SERIES OR EQUAL
8. T&G SOLID WOOD DECKING SHALL HAVE A HAND WIPED STAIN FINISH USING A PENETRATING OIL BASED STAIN

FINISH SCHEDULE

ROOM NUMBER & NAME	FLOOR	BASE	WALLS				CLG.	CLG. HT.	
			N	E	S	W			REMARKS
100 COVERED ENTRANCE	1	NA	8	5	NA	5	9	VARIES	SLOPED CLG.
101 LOBBY	2	4	8	6	8	6	9	VARIES	SLOPED CLG.
102 COUNCIL CHAMBERS	2/3	4	6	6	6	6	6/7	10' & 11'-4"	G.B TRAY CEILING AROUND PERIMETER
103 MEN	2	4/10	6/10	6/10	6	6	6	10'	DROPPED G.B. CLG.
104 MECHANICAL CLOSET	1	NA	6	6	6	6	NA	NA	NO CLG. - OPEN TO STRUCTURE
105 WOMEN	2	4/10	6/10	6/10	6	6	6	10'	DROPPED G.B. CLG.
106 CORRIDOR	2	4	6	6	6	6	7	10'	
107 MEDIA / CONFERENCE	3	4	6	6	6	6	7	10'	
108 FINANCIAL OFFICE	3	4	6	6	6	6	7	10'	
109 CODE ENFORCEMENT	3	4	6	6	6	6	6	10'	DROPPED G.B. CLG.
110 VAULT / SAFEROOM	1	4	12	12	12	12	13	9'-6"	
111 FILE STORAGE	3	4	6	6	6	6	6	10'	DROPPED G.B. CLG.
112 CLERK	3	4	6	6	6	6	6	10'	
113 BREAK ROOM	2	4	6	6	6	6	6	10'	
114 STORAGE	1	4	6	6	6	6	6	10'	
115 WOMEN	2	4/10	6	6/10	6/10	6	6	10'	
116 ADMINISTRATION ASSISTANT	3	4	6	6	6	6	6	10'	
117 JANITOR	1	4	6	11	11	11	6	10'	
118 STORAGE	1	4	6	6	6	6	6	10'	
119 MEN	2	4/10	6	6	6/10	6/10	6	10'	
120 SECRETARY	3	4	6	6	6	6	6	10'	
121 MECHANICAL / ELECTRICAL CLOSET	1	4	6	6	6	6	NA	NA	NO CLG. - OPEN TO STRUCTURE
122 MAYOR	3	4	6	6	6	6	6	10'	
123 RESTROOM	2	4/10	6/10	6/10	6	6	6	10'	
124 CLOSET	3	4	6	6	6	6	6	10'	
125 CORRIDOR	2	4	6	6	6	6	7	9'-0"	

GEOTECHNICAL ENGINEER

MTA Engineers

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REGISTERED ARCHITECTS — ETC Engineers & Architects, Inc. — No. C-462 — ARKANSAS

REGISTERED ARCHITECT — GERALD MYERS — License Number 4544 — STATE OF ARKANSAS — 11.08.2016

ETC ENGINEERS & ARCHITECTS, INC.

Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

FORREST CITY NEW CITY HALL

FORREST CITY, AR

ISSUE / DATE

DESCRIPTION

PROJECT NO. 163902CFC

PROJECT PHASE
CONSTRUCTION DOCUMENTS

DRAWN BY: GLA | CHECKED BY: GLA

FINISH SCHEDULE
NOVEMBER 8, 2016

A6.2

GENERAL NOTES

DESIGN PARAMETERS:

Discrepancies - When discrepancies exist between the Design Drawings (including this sheet) and the Specifications, the more stringent of the two determined by the Engineer shall govern. When discrepancies exist between scale dimensions in the Design Drawings and the figures written in them, the figures shall govern.

1. Design Codes - (All latest editions unless noted):
   A. International Building Code (IBC 2012)
   B. American Society of Civil Engineers (ASCE 7-10)
      Minimum Design Loads for Buildings and Other Structures
2. Foundation
   A. Refer to Geotechnical report by MTA ENGINEERS dated SEPT 14, 2016 . Allowable bearing capacity of strip footings and pad footings are 2,000 & 2,500 respectively on select fill. Some undercutting of building slab and footings can be expected. Geotechnical Engineer shall observe and review site conditions during construction to determine amount of undercut.
   B. If the soil is of questionable bearing value, the Engineer or Architect shall be notified immediately.
   C. After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner selected independent testing laboratory.
   D. The Soils Engineer is the sole judge of suitability of underlying material to support foundations and shall approve bearing material before foundation installation. See specifications.
   E. Coefficient of horizontal friction between concrete and soil = 0.35
   F. Minimum depth from exterior ground surface to bottom of foundations = 24 inches
   G. Prepare site and place fill in accordance with the recommendations in the soils report noted above. Observe construction recommendations noted in the soils report. All fill material shall be in accordance with soils report recommendations.
   H. Construct non-basement floor slabs on the granular fill layer required by the plan notes.
   I. Backfill basement and retaining walls with ASTM C-33 No. 57 stone or equivalent approved by the soils Engineer. Extend stone from the base of walls outward at a 45 degree angle to the vertical.
   J. Backfilling:
      -Do not backfill basement walls and grade beams until bracing floors are in place or temporary bracing is installed.
      -Backfill in even lifts alternating from side to side.
      -Backfill under foundations with concrete or as approved by soils Engineer.
3. Roof Load:

A. Roof Dead Loads	20 psf
B. Roof Live Load	20 psf (Unreducible)
C. Collateral Load	10 psf

4. Wind Load: (IBC 2012)

A. Wind Speed	115 mph
B. Wind Exposure Category	C
C. Wind Importance Factor	1.0

5. Snow Load: (IBC 2012)

A. Ground Snow Load	10 psf
B. Exposure Coefficient Ce	1.0
C. Thermal Factor Ct	1.0
D. Importance Factor for Snow I	1.0
E. Roof Slope Factor Cs	1.0
F. Min. Roof Snow Load	Pf = 10 psf

6. Seismic Load: (IBC 2012)

0.2 Sec Spectral Acceleration	Ss = 0.9789
0.2 Sec Site Coefficient	Fa = 1.11
0.2 Sec Design Acceleration	Sds = 0.723
1.0 Sec Spectral Acceleration	S1 = 0.3504
1.0 Sec Site Coefficient	Fv = 1.700
1.0 Sec Design Acceleration	Sd1 = 0.397
Site Class	D
Occupancy Category	II
Seismic Importance Factor	I = 1.0
ACI Special Provisions	Not Applicable
AISC Seismic Provisions	Not Applicable
Seismic Design Category	D
Basic Structural System	Bearing Wall Systems
Seismic Force Resisting System	Wood walls sheathed with wood structural rated panels
Response Modification Factor	R=6.5
Deflection Amplification Factor	Cd=4.0
Analysis Procedure	Equivalent Lateral Force Procedure

Non-Structural Component Seismic Exemption:
A. Architectural Components
Architectural components must comply with seismic requirements of Chapter 13 ASCE 7. (SDC=C) (SDC=D)

B. Mechanical and Electrical Components:
Components must comply with Chapter 13 of ASCE 7 seismic requirements. (SDC=D)

Mechanical and electrical components with an Ip=1.0 and either components are mounted 4 ft or less above a floor level and weigh 400 lb or less or flexible connections between the components and the associated duct work, piping and conduit.

Mechanical and electrical components with an Ip=1.0 and the components weight 200 lb or less or for distribution systems weighing 5 lb/ft or less.

Component Seismic Importance Factor:
The component importance factor Ip shall be =1.5 if any of the following conditions apply:
A. The component is required to function for life-saftey purposes after and earthquake, including fire protection sprinkler systems.
B. The component contains hazardous materials.
C. The structure is in or attached to an occupancy category IV structure and it is needed for the continued operation of the facility. All other components shall be assigned and importance factor Ip=1.0.

I hereby certify that the structural plans submitted herewith are designed with the structural load carrying elements to resist the anticipated forces of the designated seismic zone in which the structure is located in accordance with Arkansas Code Annotated 12-80-101 et. seq.

Date: Nov. 7 ,2016

Wenduo "Roger" Yin, P.E., S.E.
Arkansas Registration No. 9260

GENERAL INFORMATION:

1. All columns shall be centered on grid lines unless noted otherwise.
2. All column footings shall be centered on columns unless noted otherwise.
3. All wall footings shall be centered on walls unless noted otherwise.
4. Unless otherwise noted or detailed, concrete pads for mechanical equipment shall be 4" thick (minimum) and reinforced with #3 @ 12" OC each way centered.
5. Substitution of expansion anchors for embedded anchors shall not be permitted, Unless Approved by Engineer.
6. Contractor is responsible for coordinating weights, size, and location of actual mechanical units ordered.
7. Unless Directed Otherwise By Geotechnical Engineer all fill material under structure shall be sandy clay or clayey sand exhibiting a liquid limit less than 35. Fill material shall be placed in loose lifts not to exceed 8" and compacted to a density of not less than 95% of Modified Proctor Maximum Dry Density (ASTM D-1557) at or slightly wet of optimum moisture content. In place moisture and density of each lift shall be determined by in-situ field tests prior to placing additional fill.
8. Permanent stability of the building and components is not provided until the erection is completed as shown on the contract drawings. Erection stability and temporary supports required for construction including guys, braces, and shoring are the responsibility of the contractor.
9. Testing:
   A. Refer to specifications for specific requirements regarding sampling and testing.
   B. Where sampling and testing requirements are omitted from the specifications sample and test concrete as follows:
      B1. Contractor shall engage a testing laboratory acceptable to the owner and Architect. Test conducted shall be paid for by the contractor.
      B2. Prepare field samples of 4 compressive test cylinders in accordance with ASTM C31 and one slump test for each class of concrete placed each day. Samples shall be taken not less than once per day for each 50 cubic yards of concrete. Test for cylinders shall be conducted one at 7 days and 2 at 28 days, with remaining cylinders retained for future testing in case of low test results.
10. Before construction starts, contractor shall coordinate with owner to identify all underground utility lines and protect them from any damage during construction.

CONCRETE SLAB ON GRADE:

1. Provide a 4-inch clean medium-to-coarse gravel compacted drainage fill below all interior slabs-on-grade unless noted or detailed otherwise.
2. A 10-mil minimum polyethylene film vapor retarder shall be placed below all interior slabs-on-grade.
3. Cut 75% of welded wire fabric or deformed rebar 3 inches on either side of a saw-cut or construction control joint.
4. Provide bolsters or supports as needed to maintain reinforcement at proper location in slab.
5. Maximum water cement ratio shall not exceed the amount specified.
6. Saw cutting control joints shall proceed as soon as possible without chipping or spalling concrete. Lapsed time between casting and saw-cutting shall not exceed 8 hours. The length to width ratios of slab areas shall not exceed 1.25. The max area of slab without joints shall be 250 sq. ft.
7. Refer to specifications and Architectural drawings for slab finish requirements.

SLAB FLATNESS AND LEVELNESS:

1. Slabs on grade shall comply with either the straight edge tolerance or the F-number tolerances outlined below for flatness and levelness per ACI 117. The tolerance shall be confirmed by field testing.
2. Elevated floors shall comply with the moderately flat design for FF only. The FL levelness tolerance shall not apply to slabs placed on unshored form surfaces or shored form surfaces after removal of shores, nor to cambered or inclined surfaces. FF and FL shall be tested in accordance with ASTM E 1155. Straight edge shall be placed on two high spots anywhere on slab surface and measurement taken. Sampling shall be per ACI 117 and not less than 1 measurement per 100 sq. ft. Measurements must be taken and results supplied to contractor within 72 hrs. of pouring.
3. Unless specifically defined otherwise on the drawings, the floor profile category shall apply to the following building types:
   A. Conventional : utility buildings not to receive finishes
   B. Moderately Flat : low speed traffic areas, elevated floor slabs
   C. Flat : churches, schools, office buildings, retail, any floor to receive finishes
   D. Very Flat : industrial floors, floors subject to forklifts, gymnasiums
   E. Super Flat : special use floors including TV studios, warehouse traffic aisles

F-NUMBERS FOR VARIOUS FLOOR PROFILE CATEGORIES

	Specified Overall Value		Minumum Local Value	
Floor Profile Category	FF	FL	FF	FL
Conventional	20	15	13	10
Moderately Flat	25	20	15	12
Flat	35	25	21	15
Very Flat	45	35	27	21
Super Flat	60	40	36	24

REQUIRED DEPTH BELOW 10 FOOT STRAIGHT EDGE

	Maximum Gap	
	90% Compliant	100% Compliant
Conventional	1/2"	3/4"
Moderately Flat	3/8"	5/8"
Flat	1/4"	3/8"
Very Flat	N/A	N/A
Super Flat	N/A	N/A

CONCRETE MASONRY:

1. Material specifications:

Concrete Masonry Units	f'm = 1500 psi
Grout	f'c = 3000 psi
Mortar	Type S (ASTM C476)
Reinforcing Bars	Grade 60 (ASTM A615)
Reinforced Wire	ASTM A82

2. Load bearing CMU shall be light weight type 1 and conform to ASTM C90.
3. Grout shall conform to ASTM C476 and be tested in accordance with ASTM C1019.
4. Mortar shall comply with Table 1, Proportion specification requirements of ASTM C270.
5. Masonry joint reinforcement shall be welded wire units in lengths not less than 10 feet, with matching corner and tie units. Reinforcement shall be w2.8 (9 gage) ladder or truss type with deformed continuous side rods and plain cross rods and shall have a width of 1½" to 2" less than thickness of wall or partition. reinforcement shall be placed at first bed joint above and below concrete slabs and spaced no more than 16" oc unless noted otherwise in contract documents.
6. Refer to Architectural elevation drawings for location of wall control joints. If wall control joints are not shown on contract drawings place interior and exterior wall control joints at spacings not to exceed 30 feet on center.
7. Vertical CMU cells scheduled for filling with grout shall be kept clean of mortar droppings and debris. The unobstructed opening shall not be less than 2" x 3" on plan dimension.
8. Provide vertical reinforcing, same size as adjacent bar, at: Corners, ends, jambs, each side of control and expansion joints.
9. Continue vertical reinforcing floor to floor (or roof) and extend to top of parapet.
10. Provide standard hooks on bars terminating into a masonry face:
    -in walls at openings, heads, jambs, expansion joints, and ends.
    -in beams at top, bottom, and ends.
11. Coordinate block-outs, reveals, holes, openings and built in items with all contract documents and trades.
12. Coordinate with architect the masonry block type required at fire walls.
13. Unless otherwise noted on drawings, top of CMU walls shall have masonry bond beam filled w/ grout and reinforced with 2-#5. Vertical reinforcing shall extend into bond beam w/ std hook.
14. Corrosion protection for carbon steel accessories used in exterior wall construction or interior walls exposed to a mean relative humidity exceeding 75 percent shall comply with current building code requirements for masonry structures (TMS 402-11 / AISC 530-11 / ASCE 5-11). Specifically steel items exposed to wet conditions noted shall be stainless steel, hot dip galvanized, or epoxy coated. Wall ties, anchors, and inserts may be mill galvanized, hot dip galvanized, or stainless steel

WOOD TRUSSES:

1. GENERAL-
   A. Wood trusses shall be designed in accordance with the requirements of chapter 23 of the International Building Code and accepted engineering practices. Members are permitted to be joined by nails, bolts and approved timber connectors, metal connector plates or other approved framing devices. The truss fabricator shall submit detailed shop drawings and calculations for all trusses to Architect for review before fabricating is begun. Calculations and shop drawings shall be stamped and signed by a structural engineer licensed to practice within the state or province where the trusses are being installed.
   B. All permanent bracing shall be clearly detailed on the shop drawings. The contractor is responsible for installing permanent bracing before the application of any loads.
   C. The contractor is responsible for means and methods of construction and providing any temporary bracing as needed to prevent collapse during construction.
   D. Each truss shall be permanently marked with the name and address of the truss fabricator.
2. Wood Roof Trusses-
   A. Loading - design trusses to comply with the International Building Code but not less than the following:

A.1	-	Top chord live load	-	20 psf
A.2	-	Top chord net wind uplift	-	7 psf
A.3	-	Top chord dead load	-	5 psf
A.4	-	Truss self weight	-	Per truss mfr.
A.5	-	Bottom chord dead load	-	5 psf

   B. The truss fabricator shall include as part of design requirements and shop drawings metal bearing clips or connectors capable of resisting uplift or horizontal forces for all trusses.
   C. Truss members and components shall not be cut, notched, drilled, spliced or otherwise altered without written approval from the registered design professional responsible for the design of the trusses.

WOOD ROOF SHEATHING:

1. Provide continuous support along all ridge lines, valleys and hips. Provide 2x blocking where solid framing members do not occur at these locations. Cover sheathing as soon as practical with roofing felt.
2. All roof deck shall be APA rated structural grade I exterior sheathing.
3. Stagger all joints of panels with long dimensions perpendicular to supports. Provide aluminum panel "H" clips at midspan of panels between each truss or rafter. Leave ⅛" space at all panel edges and end joints unless otherwise recommended by manufacturer.

WOOD FRAMING:

1. Provide 15lb roofing felt or other approved moisture barrier under all wood plates bearing on masonry or concrete.
2. All joists and rafters unless noted otherwise on drawings shall be secured to bearing plate with one Simpson H3 tie or approved equal.
3. Where connections for wood members are not specifically shown on drawings provide fasteners as indicated in table 2304.9.1 of the International Building Code.
4. Where headers are not specifically shown on drawings, provide header sizes as indicated in tables 2308.9.5 and 2308.9.6 of the International Building Code.
5. Unless noted otherwise on drawings, wood framing shall comply with the following species & grade:

ITEM	SPECIES	GRADE
Headers	SYP	No. 2
Floor Joists	SYP	No. 2
Rafters	SYP	No. 2
Built-up Beams	SYP	No. 2
Built-Up Columns	SYP	No. 2
Load bearing Walls	SPF	Stud
Columns	SYP	No. 2

6. Fasteners in preservative treated wood and fire-treated wood shall be hot dipped galvanized, stainless steel or other approved specifically designed for attachment in corrosive environments.

STRUCTURAL STEEL:

1. Steel shape and plate materials:

W Shapes	-	ASTM A992 or A572 Grade 50
Pipe	-	A53 - Grade B 35 ksi
Round HSS	-	A500 Grade C 42 ksi
Rectangular HSS	-	A500 Grade B 46 ksi
Built-Up shapes	-	A572 Grade 50
All Others	-	A36 or A572 Grade 50

2. The fabrication and erection of structural steel shall comply with "The Code Standard Practice for Steel Buildings and Bridges" as published by AISC.
3. Unless detailed otherwise, connections shall comply with the typical connection details indicated on drawings. Where beam end reactions are shown and connection details are not indicated on the structural drawings, provide a design for the connection and submit to the structural engineer of record for approval. Where typical connection details and beam end reactions are omitted, beam connections shall be selected to support one half the total uniform load capacity indicated in "Allowable Uniform Load Tables" in part 2 of the AISC manual of steel construction, 13th edition.
4. Bolted Connections-
   A. Unless detailed otherwise, all field connections shall be made using 3/4" diameter ASTM A325N high strength bolts. Washers shall be installed under nuts as snug tight connections.
   B. Use slip critical (A325SC) bolts for bracing, moment connections, cantilevers, tension members and at oversized or slotted holes where the force on joint is parallel to long axis of slot. Use A325N elsewhere.
   C. Where specifically identified on the drawings as slip critical all high strength bolts shall be tightened to comply with "slip critical" joints. Specifications are as follows:
      1. Installation of Alternate Design Bolts (Twist off Type)
      2. Direct tension Indicators
   D. A490 and A325 high strength bolts shall not be reused that have been previously tightened.
   E. Unless specifically noted as slip critical connections, all bolted connections shall be visually inspected to comply with snug tight conditions.
5. Welded Connections-
   A. Welding of structural steel shall comply with the latest edition of AWS D1.1 and all welds including field welds shall be made by AWS certified welders using E70XX electrodes and must meet CHARPY V-NOTCH requirements as applicable.
   B. All fillet welds to be visually inspected. All full penetration welds shall be inspected by ultrasonic testing or by other approved methods.
   C. Contractor shall remove back-up bars and run-off tabs projecting into or obstructing installation of building materials.
   D. Fabricator shall cope beams or otherwise provide weld access holes to allow proper installation and use of back-up bars at welded connections.
6. Steel erector is responsible for providing all necessary temporary bracing during erection.
7. All structural steel members exposed to weather after construction shall be galvanized.
8. Shop drawings shall be provided for review before any fabrication begins.
9. Grout column base plates prior to pouring concrete on the first elevated deck and/or prior to adding additional steel above column splices.

STRUCTURAL INSULATED PANEL (SIP):

1. Structural Insulated Panels consist of Oriented Strand Board (OSB) laminated with structural adhesive to a termite resistant EPS insulation area, an EPA registered treatment for mold, mildew & termites and SIP manufacturer supplied connecting splines, sealants and SIP screws.
2. Provide structural calculations by a registered professional engineer in the state to perform such work.
3. Submit shop drawings for SIPs showing layout, elevations, product components and accessories.
4. SIPs shall be recognized for compliance with 2012 international building code in a current ICC ES elvaluation report.

STRUCTURAL ABBREVIATIONS:

ADD	ADDENDUM	LW	LONG WAY
ADDL	ADDITIONAL	LP	LOW POINT
ALT	ALTERNATE	MFR	MANUFACTURER
AB	ANCHOR BOLT	MK	MARK
&	AND	MSRY	MASONRY
ANG	ANGLE	MBA	MECHANICAL BAR ANCHOR
ARCH	ARCHITECT	MBM	MTL BUILDING MANUF.
@	AT	MBS	MECHANICAL BAR SPLICE
BP	BASE PLATE	MO	MASONRY OPENINGS
BM	BEAM	MTL	MATERIAL
BRG	BEARING	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
B/	BOTTOM / BACK OF	NF	NEAR FACE
BLDG	BUILDING	NS	NEAR SIDE
CIP	CAST IN PLACE	NML WT	NORMAL WEIGHT
CLG	CEILING	NIC	NOT IN CONTRACT
C OR CL	CENTER OR CENTERLINE	NTS	NOT TO SCALE
C/C	CENTER TO CENTER	OC	ON CENTER
CLR	CLEAR	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CP	COMPLETE PENETRATION	OPP H	OPPOSITE HAND
CONC	CONCRETE	OF	OUTSIDE FACE
CMU	CONC MASONRY UNIT	PL	PLATE
CONN	CONNECTION	PP	PARTIAL PENETRATION
CONST	CONSTRUCTION	RAD	RADIUS
CJ	CONTROL JOINT	RECT	RECTANGULAR
CONT	CONTINOUS	REF	REFERENCE
CONTR	CONTRACTOR	RE	REFER TO
DBA	DEFORMED BAR ANCHOR	REINF	REINFORCING
DBE	DECK BEARING ELEVATION	REQ'D	REQUIRED
DL	DEAD LOAD	REV	REVISION
DET	DETAIL	SCHED	SCHEDULE
DIAG	DIAGONAL	SECT	SECTION
DIA OR Ø	DIAMETER	SW	SHORT WAY
DIM	DIMENSION	SIM	SIMILAR
DWLS	DOWELS	SL	SLAB
DN	DOWN	SOG	SLAB ON GRADE
DWG	DRAWINGS	SPA	SPACE, SPACING OR SPACES
DP	DRILLED PIER	SPECS	SPECIFICATIONS
EA	EACH	SQ	SQUARE
EE	EACH END	STD	STANDARD
EF	EACH FACE	STL	STEEL
ES	EACH SIDE	SDI	STEEL DECK INSTITUTE
EW	EACH WAY	SJI	STEEL JOIST INSTITUTE
EL	ELEVATION	STRUCT	STRUCTURE OR STRUCTURAL
EQ	EQUAL	SYMM	SYMMETRICAL
EJ	EXPANSION JOINT	SYP	SOUTHERN YELLOW PINE
EXT	EXTERIOR	THK	THICKNESS
FF	FAR FACE	T	TOP
FIN	FINISH	T/	TOP OF
FS	FAR SIDE	T/C	TOP OF CONCRETE
FLR	FLOOR	T/F	TOP OF FOOTING
FTG	FOOTING	T/J	TOP OF JOIST
FDN	FOUNDATION	T/L	TOP OF LEDGE
GALV	GALVANIZED	T/P	TOP OF PILASTER
GA	GAUGE or GAGE	T/SL	TOP OF SLAB
HT	HEIGHT	T/SOG	TOP OF SLAB ON GRADE
HP	HIGH POINT	T/S	TOP OF STRUCTURAL STEEL
HORIZ	HORIZONTAL	TYP	TYPICAL
IF	INSIDE FACE	UNO	UNLESS NOTED OTHERWISE
INT	INTERIOR	VERT	VERTICAL
JBE	JOIST BEAING ELEVATION	WB	WIND BRACE
JT	JOINT	WWF	WELDED WIRE FABRIC
JST	JOIST	WF	WIDE FLANGE
K OR k	KIP = 1,000lbs	W/	WITH
LB	POUND	W/O	WITHOUT
LT WT	LIGHT WEIGHT	WP	WORK POINT
LL	LIVE LOAD	WS	WATER STOP
LONG	LONGITUDINAL	WT	WEIGHT
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		

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REGISTERED ARCHITECTS — ETC Engineers of Architects, Inc. — No. C-462 — ARKANSAS

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 9250 — WENDUO YIN
11/7/16

ETC ENGINEERS, INC.
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FORREST CITY
NEW CITY HALL
FORREST CITY, AR.

DATE	REVISION

SURVEY BY:
DESIGN BY: RY
DRAWN BY: CS
CHECKED BY: RY
DATE: 11-7-16
JOB NO:
GENERAL NOTES
SHEET: S001

CERTIFICATE OF AUTHORIZATION — Robbins Engineering PLLC — No. 1083 — ARKANSAS ENGINEERS

REC — ROBBINS ENGINEERING CONSULTANTS
10018 W. MARKHAM / LITTLE ROCK, AR 72205
P 501.664.7575 / F 501.664.7474
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STRUCTURAL OBSERVATION REQUIREMENTS:

1. A representative of the engineer of record will perform structural observation of the elements and connections of the structural system at critical stages of construction and the completed structure for general conformance with the approved plans and specifications. Structural observation does not waive the responsibility for the inspections required required of the building official or the special inspectors.
2. A pre-construction meeting shall be held and attended by the design architect or engineer, the engineer who will perform the structural observation, the contractor and affected sub-contractors and the special inspectors.
3. The general contractor shall notify the structural engineer of record at least 48 hrs. prior to completing construction operations that require structural observation by calling (501) 664-7575 to schedule a site visit.
4. At a minimum, the following significant construction stages require a site visit and an observation report from the structural observer.

Construction Stages

A. At the first day of pier drilling and installation.
B. After installation of foundation reinforcing and before concrete placement
C. After installation of concrete grade beam reinforcing and before concrete placement.
D. After installation of masonry wall reinforcing and before grouting of first lift of masonry
E. After installation of reinforcing for elevated concrete and before placing concrete.
F. After erection of structural steel and before metal deck placement.
G. After installation of metal roof deck and before roofing installation.

SPECIAL INSPECTION NOTES:

Provide special inspections for the following items per section 1704 of the IBC and section 014000 of the project specifications. The approved independent testing agency's individual special inspector shall demonstrate competence for inspection of particular type of construction or operation requiring special inspection and shall meet the minimum special inspector qualifications in section 1704 of the IBC. The special inspector shall bring non-conforming items to the immediate attention of the contractor in writing and note all such items in the reports. Any unresolved item about to be covered by the work shall be brought to the contractor's and the owner's construction manager's attention immediately. The special inspector shall furnish reports, tests and inspections directly to the architect of record, the owner's construction manager, and the contractor. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspectors knowledge, in conformance with the approved plans and specifications. The contractor is responsible for notifying the special inspection agency regarding individual inspection for items listed on the schedule and as noted on the building department approved plans. Adequate notice and access to approved plans shall be provided so that the special inspector has time to become familiar with the project.

STRUCTURAL INSPECTIONS - BASIC REQUIREMENTS:

VERIFICATION AND INSPECTION OF PAD AND STRIP FOOTING CONSTRUCTION:

A. After excavation and before pouring footings the geotechnical engineer or representative shall verify thru periodic testing that material below footings are adequate for bearing.
B. Verify excavations are extended to proper depth thru periodic testing.
C. If required, provide density testing, use of approved fill materials, and correct lift thickness during placement and controlled fill through continuous inspection.
D. If required by geotechnical recommendations, prior to placing footings or fill, observe subgrade and proof roll.
E. Provide verification and inspection of formwork, steel reinforcement, and concrete for applicable items as outlined in subparagraph "Verification and Inspection of Concrete Construction."

VERIFICATION AND INSPECTION OF DRILLED PIER AND GRADE BEAM CONSTRUCTION:

A. Testing agency shall observe drilling operations and maintain complete and accurate records for each pier thru continuous inspection.
B. Testing agency shall verify and report placement locations, plumbness, pier size, bell diameter (if applicable), lengths, embedment depth (if applicable) and adequate end bearing strata.
C. Probing of bottom of piers founded in rock may be required by geotechnical engineer. Where probing is required contractor shall submit for approval the type of equipment planned for use and methodology of use.

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION:

A. Contractor shall obtain and a testing agency shall review and record material verification of high-strength bolts, nuts and washers, steel, non-shrink grout, and welders certifications.
B. Inspection agency shall periodically review by visual inspection and report all bearing type connections for compliance with "snug tight" condition. For connections specified as "slip critical" inspection agency shall periodically review bolts per manufacturers recommendations for twist off type bolts or direct tension indicators.
C. Contractor shall provide structural steel shop drawings for review and maintain copies on site for inspectors use. Refer to specifications for specific shop drawing requirements.
D. Inspection of welded structural steel shall be as follows:
   1. Complete and partial penetration groove welds shall have continuous inspection and welds shall be tested using the ultrasonic testing method or other previously approved method at a frequency notes as follows:
      A. 10 welds or less — 100% Tested
      B. 10 to 20 welds — 50% Tested, but not less than 10
      C. 20 to 30 welds — 25% Tested, but not less than 10
      D. 30 or more — 10% Tested, but not less than 10
   2. Fillet welds greater than $^5/_{16}$" or require multiple passes shall have continuous visual inspection.
   3. Single pass fillet welds $^5/_{16}$" and smaller shall have periodic visual inspection.
   4. Roof and floor deck welds shall have periodic inspection verifying size, spacing, and quality.
   5. Floor shear studs shall have periodic inspection and testing as per AWS D1.1.
E. Steel deck - Contractor shall provide shop drawings and manufacturers certificates for review and maintain copies on site for inspector's use. Refer to specifications for specific shop drawing requirements. Inspector shall periodically inspect deck type, placement, and attachment. Where mechanical fasteners are used contractor shall submit and maintain on-site manufacturers data for fasteners.
F. Joists and joist girders - Contractor shall provide shop drawings for review and maintain on site shop drawings and manufacturers tags or certificates for inspectors use. Periodic inspection of joists shall include review of structural high strength bolts (if applicable), welding, location, and spacing of joists. Contractor is responsible for compliance with applicable OSHA requirements.

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION:

A. As a minimum, contractor shall provide and maintain copies on site of the following submittals:
   1. Concrete mix designs and supporting data including admixture manufacturers data.
   2. Manufacturers data with application and installation instructions for all specified products and material certificates.
   3. Reinforcement shop drawings complying with ACI Detailing Manual (SP66). Include all information necessary for shop fabrication and for location and placing in the field.
   4. When required in contract documents, provide a pour placement plan.
   5. When required in contract documents, maintain material samples and mock-up panels.
   6. Shop drawings pertaining to formwork will not be reviewed by the design professional. Contractor has total control and responsibility for formwork as part of means and methods of construction.
B. The inspection program shall provide for the following inspections:
   1. Periodically inspect formwork for general compliance with material quality and alignments, notify contractor of any deficiencies found. The contractor is responsible for the proper design and support of formwork as part of the means and methods responsibility.
   2. Periodically inspect reinforcing including pre-stressing tendons for grade, size, number, length, lap length, lap location, cover and support.
   3. Continuously verify use of required design mix.
   4. Periodically inspect concrete placement and consolidation for compliance with ACI 301 requirements.
   5. Periodic inspection for maintenance of specified curing temperature and techniques.
   6. Continuous inspection of post-tensioned construction for proper application of pre-stressed forces.
   7. Periodic inspection of the erection of precast members including grouting under-bearing members, bolted and field welded connections.
   8. Inspect formed surfaces for cracking, honeycombing, voids, spalling, pealing, and exposed reinforcing.
C. This section outlines the basic tests to be conducted by the testing agency; however when conflicts exist between this section and the specifications, the specifications shall govern. The testing agency and the contractor shall review the specifications carefully for additional testing requirements. Testing includes but is not limited to the following:
   1. Compressive strength tests (ASTM C39) - prepare four (4) concrete test cylinders for every days placement or every (50) cubic yards. Test one cylinder at 7 days and two at 28 days. Retain one cylinder for possible testing at a later date.
   2. Slump test (ASTM C143) - perform one slump test from first two trucks and one for each set of cylinders taken. If any slump test is out of specified range, additional slump test shall be taken on each subsequent load until concrete is within specified range.
   3. Air entrainment tests (ASTM C231) - make one air content check per set of test cylinders.
   4. Contractor shall provide an enclosure for initial storage and curing of concrete test cylinders meeting ASTM C31. Fit enclosure with maximum/minimum thermometer, provided heating and cooling, and maintain enclosure at 70°F plus or minus 10°.
   5. Hot and cold weather concrete placement - at architects discretion temperature measurements may be taken when weather conditions may warrant hot or cold weather placement requirements.

VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION:

A. As a minimum, contractor shall provide and maintain copies on site the following submittals:
   1. Manufacturers data for each unit, accessory, and product with application and installation instructions and material certificates.
   2. reinforcement shop drawings complying with ACI Detailing Manual include all information necessary for shop fabrication and for placing in the field.
   3. When required in contract documents, maintain material samples and mock-up panels.
   4. Contractor has total control and responsibility for temporary shoring and bracing as part of means and methods of construction.
B. The inspection program shall shall provide for the following inspections:
   1. Periodic inspection of size and location of masonry units.
   2. Periodic inspection of reinforcement size, grade, and location.
   3. Periodically verify grout spaces are clean and mortar joints are properly constructed.
   4. Continuous inspection of grout placement and any welding of reinforcing.

SHOP DRAWING SUBMITTAL PROCEDURES:

1. Transmit submittals in advance of related construction activities to avoid unnecessary delays. The structural engineer for this project may withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
2. Submit one electronic portable document format (.pdf) copy through the architect for the "Shop Drawing" review. The electronic copy will be marked up by the structural engineer of record. One electronic copy will be kept by the engineer and an additional copy will be transmitted to the architect. The architect will transmit a copy to the contractor. The contractor will make additional hard copies as required for his/her needs.
3. Action Stamp: The engineer of record will stamp each submittal with a uniform action stamp to indicate the action taken in one of five options:
   - ***Permitted***: Work covered by the submittal generally complies with the requirements of the contract documents.
   - ***Permitted and Corrections Noted***: Work covered by the submittal may proceed provided it complies with the notations or corrections on the submittal and requirements of the contract documents.
   - ***Submit Specified Item***: Comply with the content of the specifications for the indicated item(s)
   - ***Revise and Resubmit***: Work covered by the submittal does not comply with the requirements of the contract documents and must be changed to comply and resubmit the entire submittal, or portions specified otherwise.
   - ***Rejected***: Work covered by the submittal is unacceptable and may not proceed.
4. Contractor shall comply with Division One Section - "Submittals"
5. No reproductions of construction documents are acceptable for use as shop drawings.

CONST. TYPE		INSPECTION TASK	2012 IBC SPECIAL INSPECTIONS CONTINUOUS	INSPECTION FREQUENCY * PERIODIC
SOILS	1.	Verify materials below footings are adequate to achieve the design bearing capacity.	—	X
	2.	Verify excavations are extended to proper depth and have reached proper material.	—	X
	3.	Perform classification and testing of controlled fill materials.	—	X
	4.	Verify use of proper materials, densities and lift thickness during placement and compaction of controlled fill.	X	—
	5.	Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	—	X
CONCRETE	1.	Inspection of reinforcing steel and placement.	—	X
	2.	Inspection of reinforcing steel welding in accordance with table 1704.3, item 5B.	—	X
	3.	Inspect bolts and embeds to be installed in concrete prior to and during placement of concrete.	X	—
	4.	Verifying use of required design mix.	—	X
	5.	Sampling fresh concrete and performing slump, air content and determining the temperature of fresh concrete at the time of making specimens for strength tests.	X	—
	6.	Inspection of concrete and shotcrete placement for proper application techniques.	X	—
	7.	Inspection for maintenance of specified curing temperature and techniques.	—	X
	8.	Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X
	9.	Inspection of anchors installed in hardened concrete.	—	X
STRUCTURAL STEEL	1.	Material verification of high-strength bolts, nuts and washers. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	2.	Inspection of high strength bolting. A. Bearing type connections, snug tight & slip critical.	—	X
	3.	Material verification of structural steel. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	4.	Material verification of weld filler material. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	5.	Inspection of welding. A. Structural steel:		
		1. Complete & partial penetration groove welds.	X	—
		2. Multi-pass fillet welds.	X	—
		3. Single-pass fillet welds > $^5/_{16}$"	X	—
		4. Single-pass fillet welds < $^5/_{16}$"	—	X
		5. Floor and deck welds.	—	X
		B. Reinforcing Steel:		
		1. Verification of weldability of reinforcing steel other than ASTM A706	—	X
		2. Shear Reinforcement.	X	
		3. Other reinforcing steel.	—	X
	6.	Inspection of steel frame joint details for compliance with approved construction documents: A. Details such as bracing and stiffeners. B. Member Locations. C. Application of joint details at each connection.	—	X

CONST. TYPE		INSPECTION TASK	2012 IBC SPECIAL INSPECTIONS CONTINUOUS	INSPECTION FREQUENCY * PERIODIC
MASONRY	1.	As masonry construction begins, the following shall be verified to ensure compliance: A. Proportions of site prepared mortar.	—	X
		B. Construction of mortar joints.	—	X
		C. Location of reinforcement and connectors.		X
	2.	During construction the inspection program shall verify: A. Size and location of structural elements:	—	X
		B. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	—	X
		C. Specified size, grade and type of reinforcement.	—	X
		D. Welding of reinforcing bars.	X	—
		E. Protection of masonry during cold (Temperature below 40° F) or hot weather (Temperature above 90°F)	—	X
	3.	Prior to grouting, the following shall be verified to ensure compliance: A. Grout space is clean.	—	X
		B. Placement of reinforcement and connectors.	—	X
		C. Proportions of site-prepared grout.	—	X
		D. Construction of mortar joints.	—	X
	4.	Grout placement shall be verified to ensure compliance with code and construction document provisions.	X	—
	5.	Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	X	—
	6.	Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	—	X
PIER FOUNDATIONS	1.	Observe drilling operations and maintain complete and accurate records for each pier.	X	—
	2.	Verify placement locations and plumbness, confirm pier diameters, lengths, embedment into bedrock and adequate end bearing strata capacity.	X	—
	3.	For concrete piers, perform additional inspections in accordance with section 1704.5.		
METAL DECK	1.	Deck attachment per general and plan notes on construction documents.	—	X
COMPONENT ANCHORAGE	1.	Installation of shallow expansion, chemical and cast in place anchors in masonry and concrete.	—	X

* Special inspection, continuous: The full time observation of work requires special inspection by an approved special inspector who is present in the area where the work is being performed.

* Special inspection, periodic: The part time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and the completion of the work.

STATEMENT OF SPECIAL INSPECTIONS:

This statement of Special Inspections / Quality Assurance Plan includes the following building systems:
1. SOILS & FOUNDATIONS
2. CAST-IN-PLACE CONCRETE
3. STRUCTURAL STEEL
4. SPECIAL CASES

GENERAL NOTES:
The Inspectors and testing agencies shall be engaged by the Owner or the Owner's Representative, and not by the Contractor or Subcontractors whose work is to be inspected or tested. Any conflicts of interest must be disclosed to the Building Official prior to commencing work.

The qualifications of all personnel performing Special Inspections and testing activities are subject to the approval of the Building Official and the E.O.R. The credentials of all inspectors and test technicians shall be provided if requested.

The special inspectors shall keep records of inspections and shall furnish inpection reports to the Owner, Engineer of Record, and Architect of Record. Field and testing result reports shall be submitted to all designated parties as they are completed. The reports shall indicate that the work performed was done in accordance to the construction documents and drawings. Discrepancies shall be brought to the attention of the general contractor for correction and shall be corrected at the contractor's expense. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the E.O.R. and A.O.R. prior to completion of that phase of work. A final report that documents required special inspections and corrections of discrepancies shall be submitted by the General Contractor to the Owner, E.O.R. and A.O.R.

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MTA Engineers
A Division of Material Testings of Arkansas
P.O. Box 23715
Little Rock, AR. 72221
Ph. 501.753.2526
Fax. 501.753.5747

REGISTERED ARCHITECTS — ETC Engineers & Architects, Inc. — No. C-462 — ARKANSAS

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 9250 — WENDUO YIN
11/7/16

ETC ENGINEERS, INC.
ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR. 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

FORREST CITY NEW CITY HALL

FORREST CITY, AR.

DATE	REVISION

SURVEY BY:
DESIGN BY: RY
DRAWN BY: CS
CHECKED BY: RY
DATE: 11-7-16
JOB NO:

GENERAL NOTES (SPECIAL INSPECTIONS)

SHEET S002

CERTIFICATE OF AUTHORIZATION — Robbins Engineering PLLC — No. 1083 — ARKANSAS ENGINEER

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10018 W. MARKHAM / LITTLE ROCK, AR 72205
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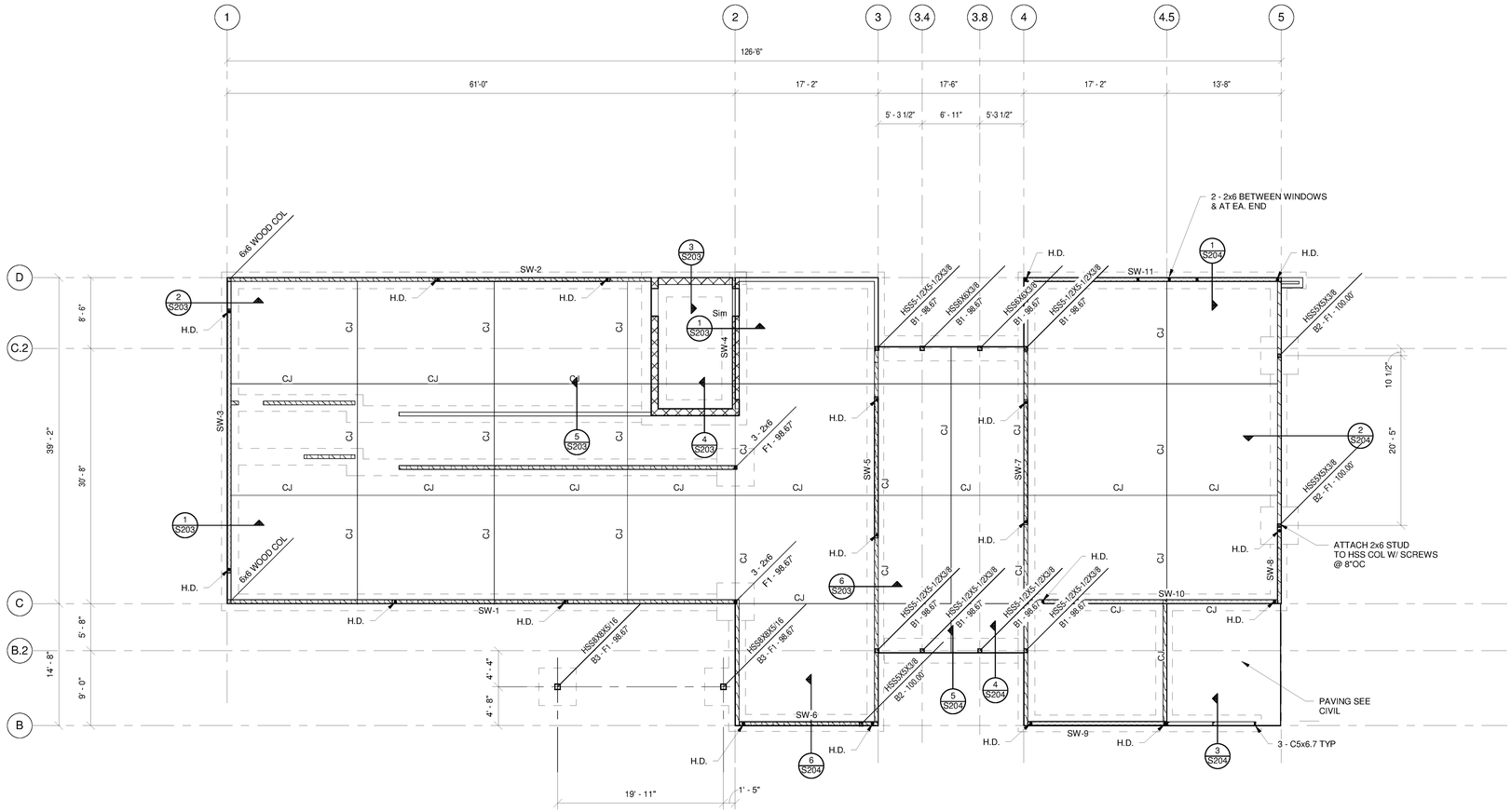
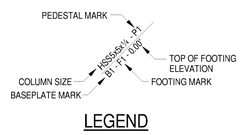


1. FIN FLR EL - 100.00' (ASSUMED)
2. 4" NORMAL WT CONCRETE ON 10 MIL VAPOR RETARDER ON 4" GRANULAR FILL ON EITHER SELECT COMPACTED STRUCTURAL FILL OR UNDISTURBED SOIL. REINF. W/ 6x6x-W2.9xW2.9 WWF, PLACE WWF SHEETS ON CHAIRS. CUT 75% OF REINF AT CONTROL JOINTS.
3. CJ - INDICATES CONSTRUCTION JOINTS. SEE SHEET S2.01 FOR DETAILS. CONTROL JOINTS MAY BE EITHER CONSTRUCTION JOINT OR SAW CUT JOINT AT CONTRACTORS OPTION.
4. SEE SHEET S201 FOR STD. FOUNDATION DETAILS.
5. ▨ REFERS TO SHEAR WALL SEE DETAIL 1/S202
6. HD - REFERS TO HOLD DOWNS SEE DETAIL 2/S202 SEE 3/S202 FOR SILL PLATE A. BOLT SIZE.



LEGEND

3 FOUNDATION PLAN
1/8" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9250
WENDUO YIN
11/7/16

ETC ENGINEERS, INC.
ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
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FORREST CITY NEW CITY HALL

FORREST CITY, AR.

DATE	REVISION

SURVEY BY:
DESIGN BY: RY
DRAWN BY: CS
CHECKED BY: RY
DATE: 11-7-16
JOB NO:

FOUNDATION PLAN

SHEET S101

CERTIFICATE OF AUTHORIZATION
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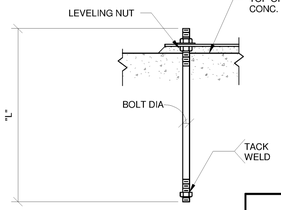
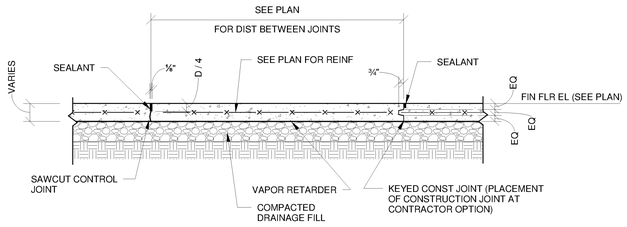


TABLE 1 - SCHEDULE		
BOLT DIA	"L"	PROJ
3/4"	1'-8"	4"
1"	1'-9"	5"
1 1/4"	1'-10"	6"
1 1/2"	2'-0"	6 1/2"
2"	2'-2"	8 1/2"

TABLE 2 - HOLE SIZE IN BASE PL & WASHER REQUIREMENTS			
BOLT DIA	MAX HOLE DIAMETER BASE PL.	MIN WASHER SIZE	MIN WASHER THICKNESS
3/4"	1 5/16"	2"	1/4"
7/8"	1 9/16"	2 1/2"	5/16"
1"	1 13/16"	3"	3/8"
1 1/4"	2 1/16"	3"	1/2"
1 1/2"	2 5/16"	3 1/2"	1/2"
2"	3 1/4"	5"	3/4"

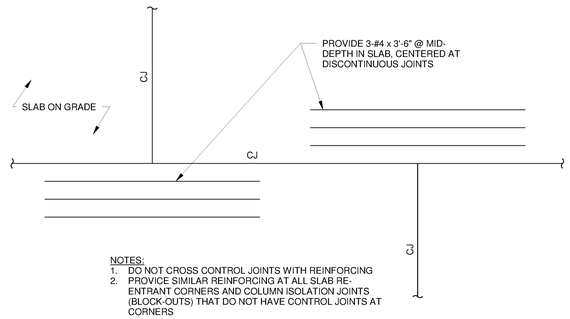
NOTES:
1. OMIT NON SHRINK GROUT ON PRE-ENGINEERED METAL BUILDINGS AND WHERE NOTED ON DRAWINGS.
2. AT CONTRACTOR'S OPTION LEVELING NUT UNDER BASE PLATE MAY BE OMITTED WHERE STEEL SHIM PACKS ARE USED.
3. USE ASTM F1554 GRADE 36 THREADED ROD W/ NUT AT BOTTOM.
4. WHERE OVERSIZED OR SLOTTED HOLES ARE USED PROVIDE PLATE WASHERS AS INDICATED IN TABLE 2. W/ CIRCULAR OR SQUARE WASHERS MEETING MIN SIZE REQUIREMENTS. TACK WELD SQUARE WASHERS IN PLACE.

1 DETAIL - TYP. ANCHOR BOLT
3/4" = 1'-0"



NOTES:
1. SAWCUT CONC SLAB AS SOON AS PROCEDURE CAN BE COMPLETED WITHOUT SPALLING OR DAMAGING EDGE, SAWCUTTING MUST BE COMPLETED WITHIN 8 HOURS OF CONCRETE PLACEMENT.
2. 75% OF REINFORCEMENT MUST STOP 3" EACH SIDE OF JOINT.
3. CONTRACTOR MAY PROVIDE EITHER SAWCUT CONTROL JOINT OR KEYED CONSTRUCTION JOINT WHERE "CJ" SHOWN ON DRAWINGS.
4. COORDINATE EXACT LOCATION OF CONTROL JOINTS WHERE ARCH DRAWINGS INDICATE CERAMIC TILE, STONE FLOORING OR TERAZZO. COORDINATE WITH ARCH.

2 TYPICAL SOG CONTROL JOINT DETAIL
3/4" = 1'-0"

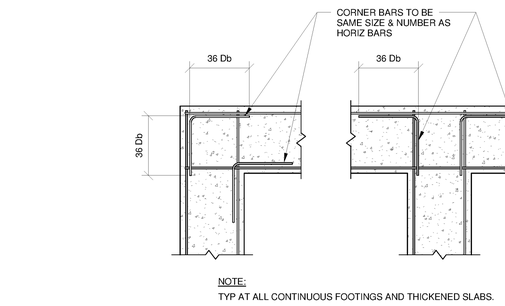


NOTES:
1. DO NOT CROSS CONTROL JOINTS WITH REINFORCING
2. PROVICE SIMILAR REINFORCING AT ALL SLAB RE-ENTRANT CORNERS AND COLUMN ISOLATION JOINTS (BLOCK-OUTS) THAT DO NOT HAVE CONTROL JOINTS AT CORNERS

3 DETAIL - REINFORCING @ JOINTS
3/4" = 1'-0"

PAD FOOTING SCHEDULE		
MARK	FOOTING SIZE	REINFORCEMENT
F1	4'-6"x4'-6"x1'-4"	#5 @ 12" OC EW BOT

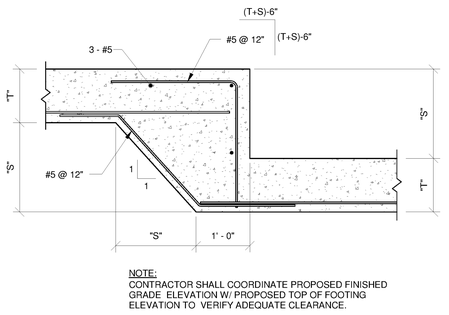
4 TYPICAL PAD FOOTING SCHEDULE
3/4" = 1'-0"



NOTE:
TYP AT ALL CONTINUOUS FOOTINGS AND THICKENED SLABS.

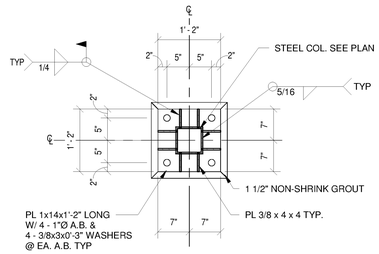
PLAN VIEW @ CORNER PLAN VIEW @ INTERSECTION

5 DETAIL - TYP. CORNER BARS @ FOOTINGS
3/4" = 1'-0"

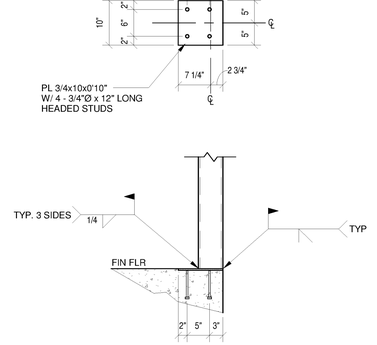


NOTE:
CONTRACTOR SHALL COORDINATE PROPOSED FINISHED GRADE ELEVATION W/ PROPOSED TOP OF FOOTING ELEVATION TO VERIFY ADEQUATE CLEARANCE.

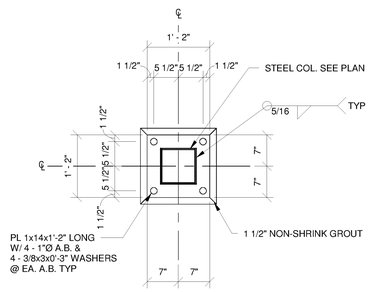
6 TYPICAL STEP FOOTING DETAIL
3/4" = 1'-0"



7 BASE PL B1
3/4" = 1'-0"



8 BASE PL B2
3/4" = 1'-0"



9 BASE PL B3
3/4" = 1'-0"

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WENDUO YIN
11/7/16

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FORREST CITY NEW CITY HALL
FORREST CITY, AR.

DATE	REVISION

SURVEY BY:
DESIGN BY: RY
DRAWN BY: CS
CHECKED BY: RY
DATE: 11-7-16
JOB NO:

TYP FOUNDATION DETAILS

SHEET S201

CERTIFICATE OF AUTHORIZATION
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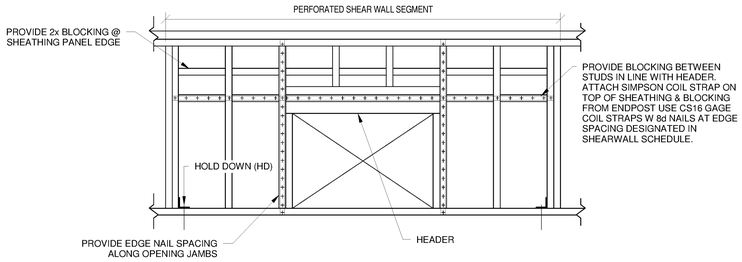
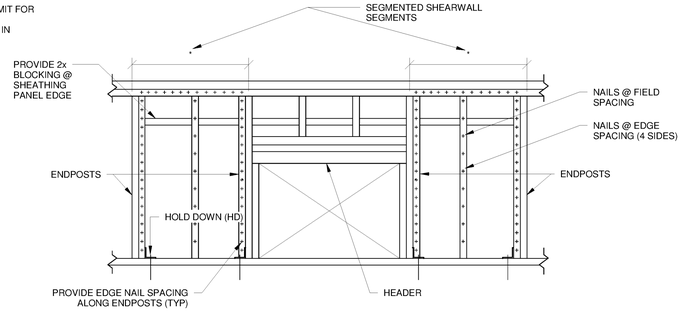
SHEARWALL SCHEDULE

TYPE	TYPE	FIRST FLOOR SHEARWALL						
		WALL SHEATHING	NAILING	HOLD DOWNS	HOLD DOWN ANCHOR	SILL BOLT	END POSTS	END POST FASTENERS
SW-1 SW-2 SW-3 SW-5 SW-6 SW-7 SW-9	EXT SEGMENTED	15/32" APA STRUCT GR. I, EXT BOTH FACES	EDGE - 8d COMMON @ 6" O.C. FIELD - 8d COMMON @ 12" O.C.	SIMPSON HDU2-SDS2.5	5/8"Ø A307 W/ MIN 8" EMBEDMENT	5/8"Ø A307 @ 32" O.C. W/ MIN 7" EMBEDMENT	2-2x6 @ #2 SO. PINE MINIMUM	6 - SIMPSON SDS 1/4x2½ WOOD SCREWS
SW-10	EXT PERFORATED	15/32" APA GR. I, EXT EXTERIOR SIDE ONLY	EDGE - 8d COMMON @ 4" O.C. FIELD - 8d COMMON @ 12" O.C.	SIMPSON HDU2-SDS2.5	5/8"Ø A307 W/ MIN 8" EMBEDMENT	5/8"Ø A307 @ 32" O.C. W/ MIN 7" EMBEDMENT	2-2x6 @ #2 SO. PINE MINIMUM	6 - SIMPSON SDS 1/4x2½ WOOD SCREWS
SW-11	EXT PERFORATED	15/32" APA GR. I, EXT EXTERIOR SIDE ONLY	EDGE - 8d COMMON @ 4" O.C. FIELD - 8d COMMON @ 12" O.C.	SIMPSON HDU2-SDS2.5	5/8"Ø A307 W/ MIN 8" EMBEDMENT	5/8"Ø A307 @ 32" O.C. W/ MIN 7" EMBEDMENT	2-2x4 @ #2 SO. PINE MINIMUM	6 - SIMPSON SDS 1/4x2½ WOOD SCREWS
SW-4 SW-8	EXT SEGMENTED	15/32" APA GR. I, EXT EXTERIOR SIDE ONLY	EDGE - 8d COOLER@ 4" O.C. FIELD - 8d COOLER @ 12" O.C.	SIMPSON HDU2-SDS2.5	5/8"Ø A307 W/ MIN 8" EMBEDMENT	5/8"Ø A307 @ 32" O.C. W/ MIN 7" EMBEDMENT	2-2x6 @ #2 SO. PINE MINIMUM	6 - SIMPSON SDS 1/4x2½ WOOD SCREWS

NOTES:
1. HORIZONTAL PANEL EDGES SHALL HAVE BLOCKING WITH 2" NOMINAL OR WIDER FRAMING, AND ALL VERTICAL PANEL EDGES SHALL OCCUR AT 2x FRAMING MEMBERS.
2. THE NOMINAL LENGTH AND LOCATION OF SHEARWALL ENDS WITH HOLD DOWNS ARE INDICATED ON THE DWGS. IT IS THE CONTRACTOR'S RESPONSIBILTY TO LOCATE THE EXACT LOCATION OF THE ANCHOR BOLTS SO AS TO NOT INTERFER WITH THE WINDOW OR DOOR JAMBS.
3. THE CONTRACTOR HAS THE OPTION TO USE EPOXY GROUTED A36 THREADED RODS IN LIEU OF THE ANCHOR BOLTS INDICATED. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED EPOXY SYSTEM TO BE USED.
4. ALL SHEARWALL SILL ANCHOR BOLTS SHALL HAVE SIMPSON BP 5/8 S-SDS 1 1/2 FLAT PLATE WASHER WITH WOOD SCREWS. PROVIDE SILL ANCHORS AS SHOWN IN SCHEDULE WITH NO LESS THAN 3 SILL BOLTS IN EACH SHEARWALL SEGMENT.

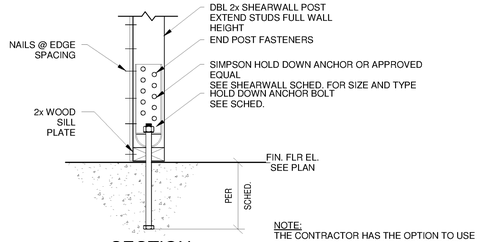


NAILING PATTERN @ PERFORATED SHEARWALL



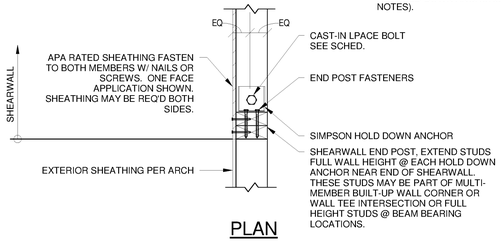
NAILING PATTERN @ SEGMENTED SHEARWALL

1 DETAIL - SHEARWALLS & SCHEDULE
3/4" = 1'-0"



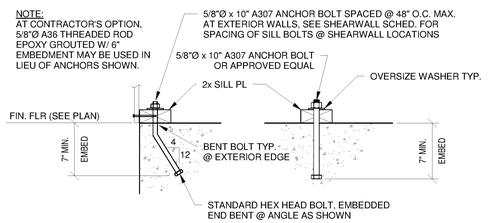
SECTION

NOTE:
THE CONTRACTOR HAS THE OPTION TO USE DRILL-IN EPOXY ADHESIVE ANCHORS TO REPLACE THE CAST-IN ANCHOR BOLTS @ ALL HOLD-DOWN ANCHORS (SEE GENERAL NOTES).



PLAN

2 DETAIL - TYP. SHEARWALL HOLDOWN
3/4" = 1'-0"



EXTERIOR WALL INTERIOR WALL

3 DETAIL - TYP. SILL PLATE ANCHOR
3/4" = 1'-0"

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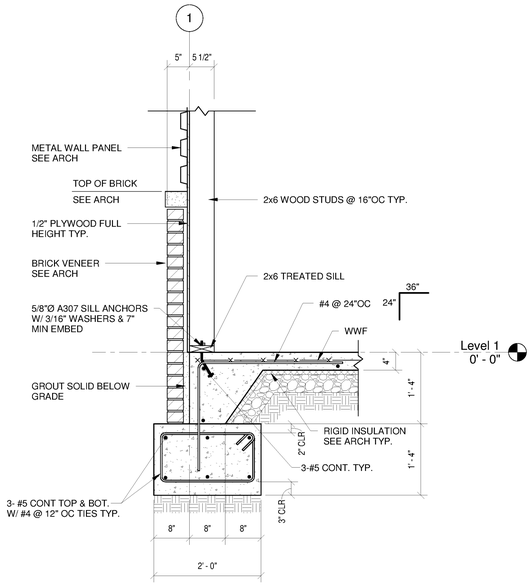
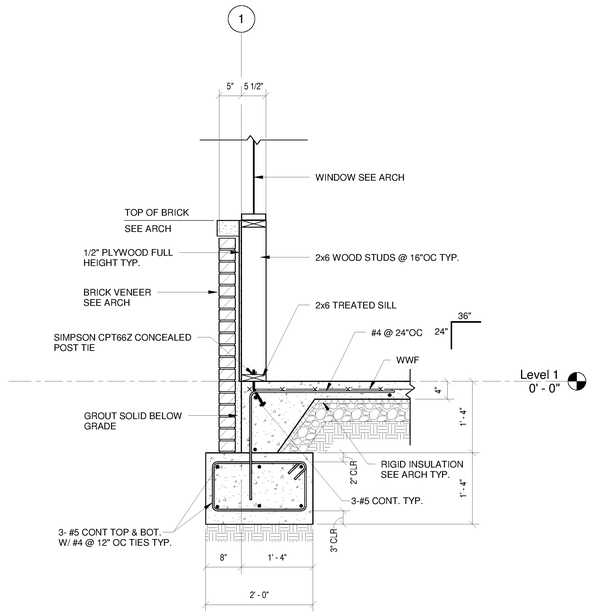
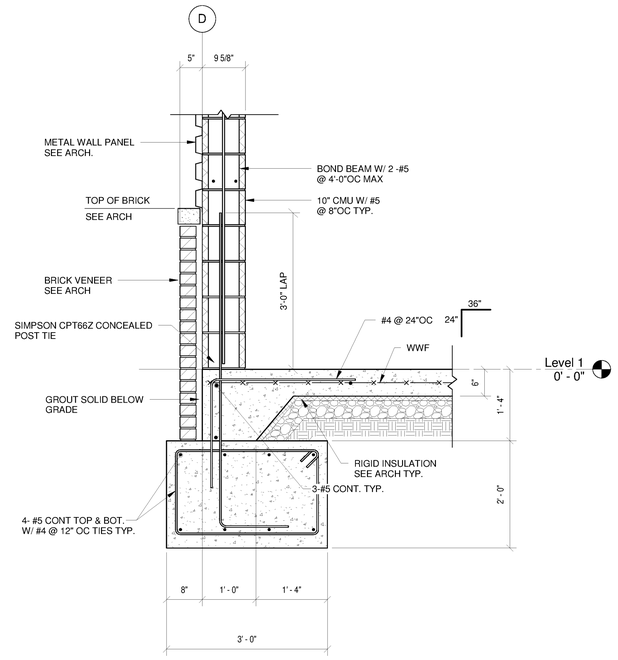


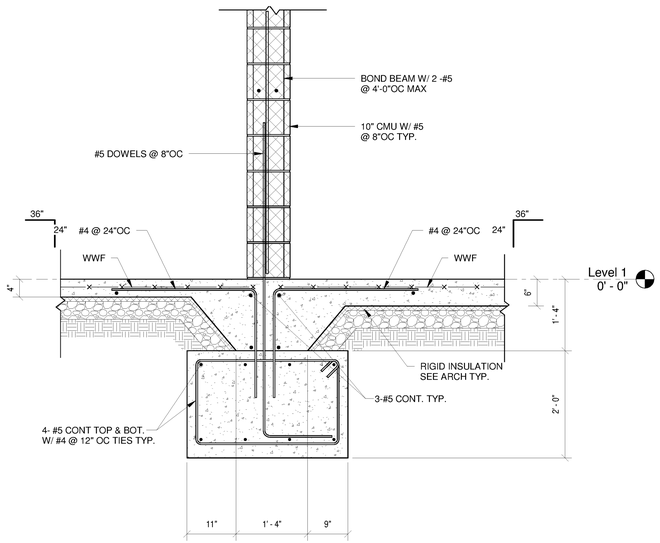
1 SECTION
3/4" = 1'-0"



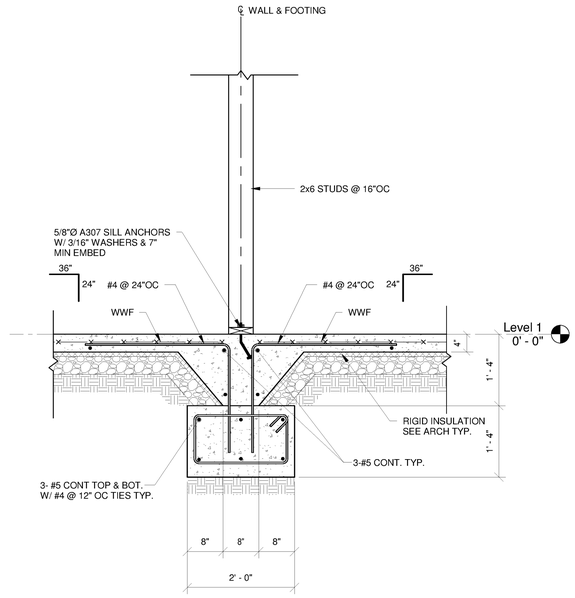
2 SECTION
3/4" = 1'-0"



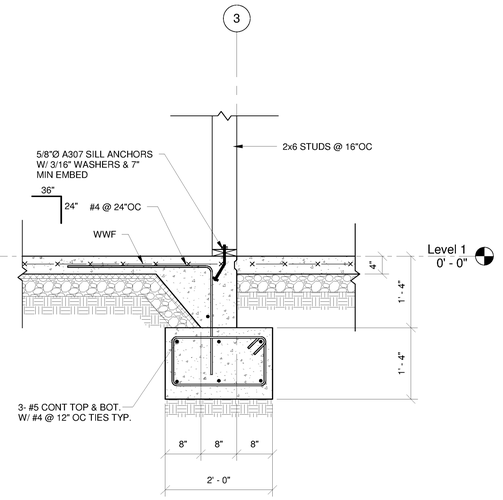
3 SECTION
3/4" = 1'-0"



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



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



6 SECTION
3/4" = 1'-0"

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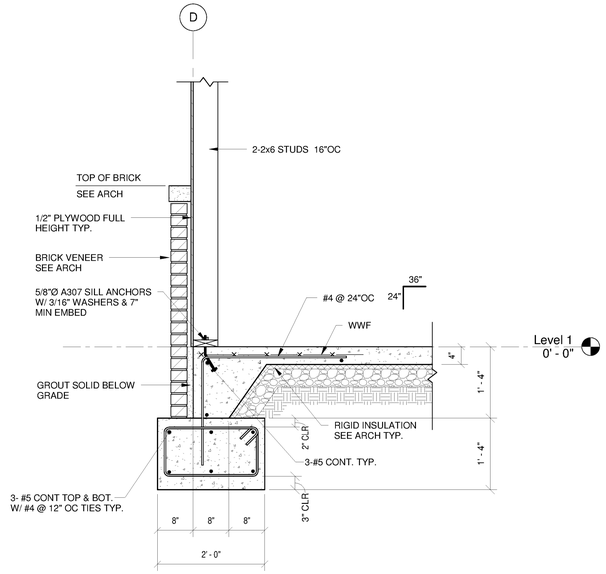
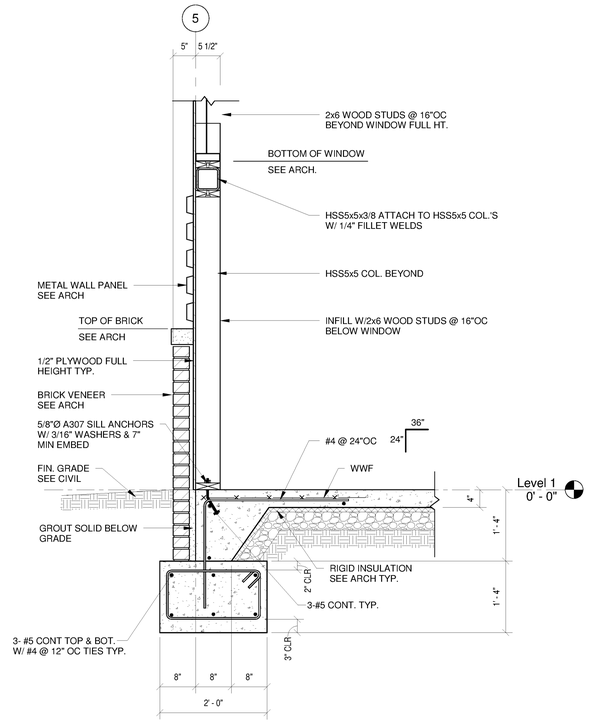
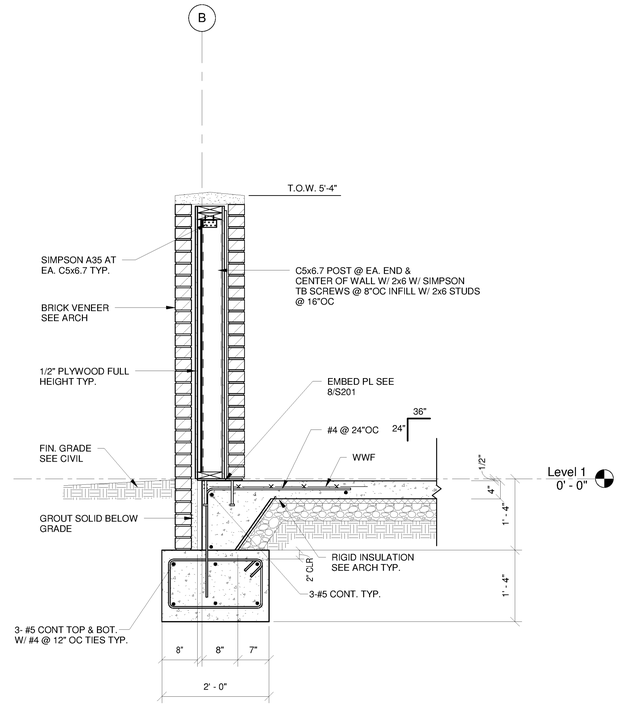


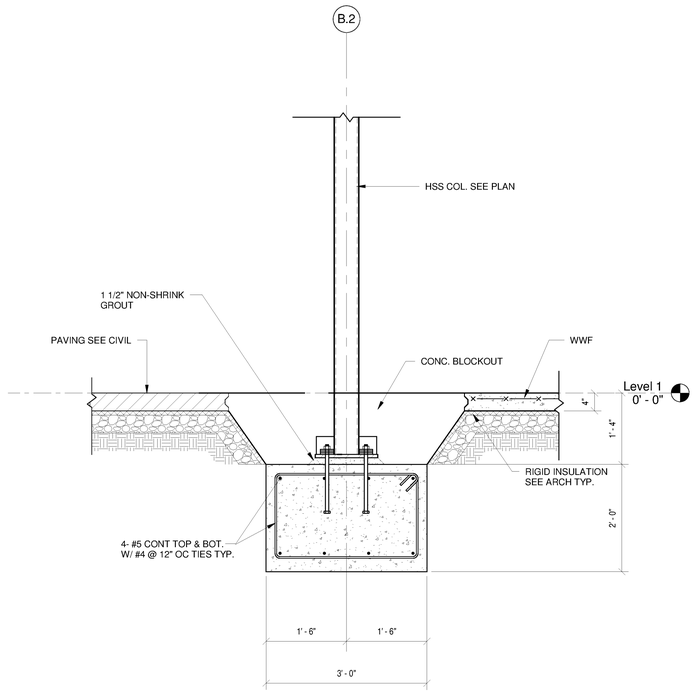
1 SECTION
3/4" = 1'-0"



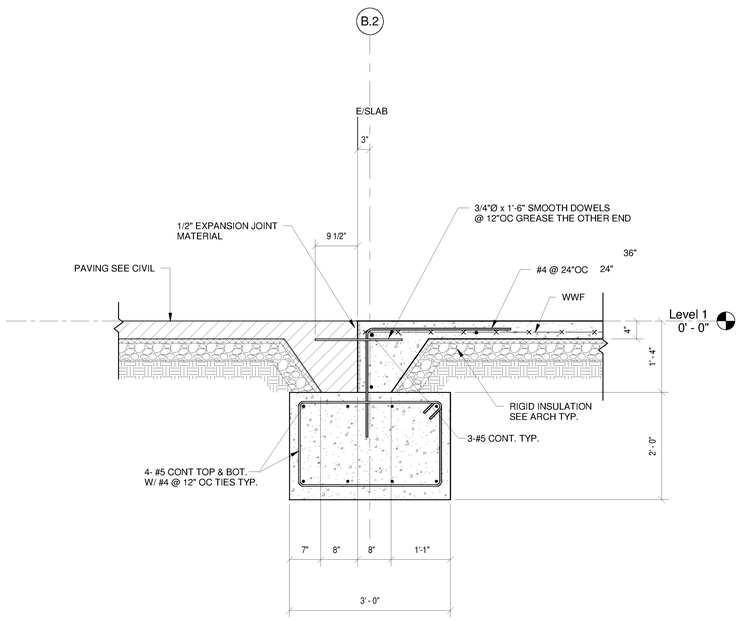
2 SECTION
3/4" = 1'-0"



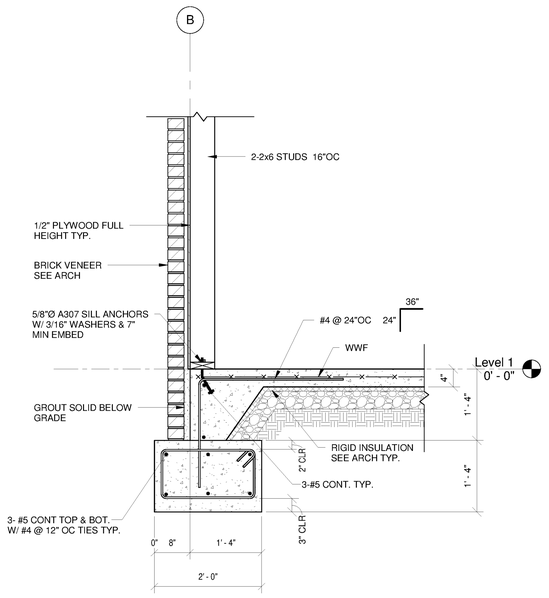
3 SECTION
3/4" = 1'-0"



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



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



6 SECTION
3/4" = 1'-0"

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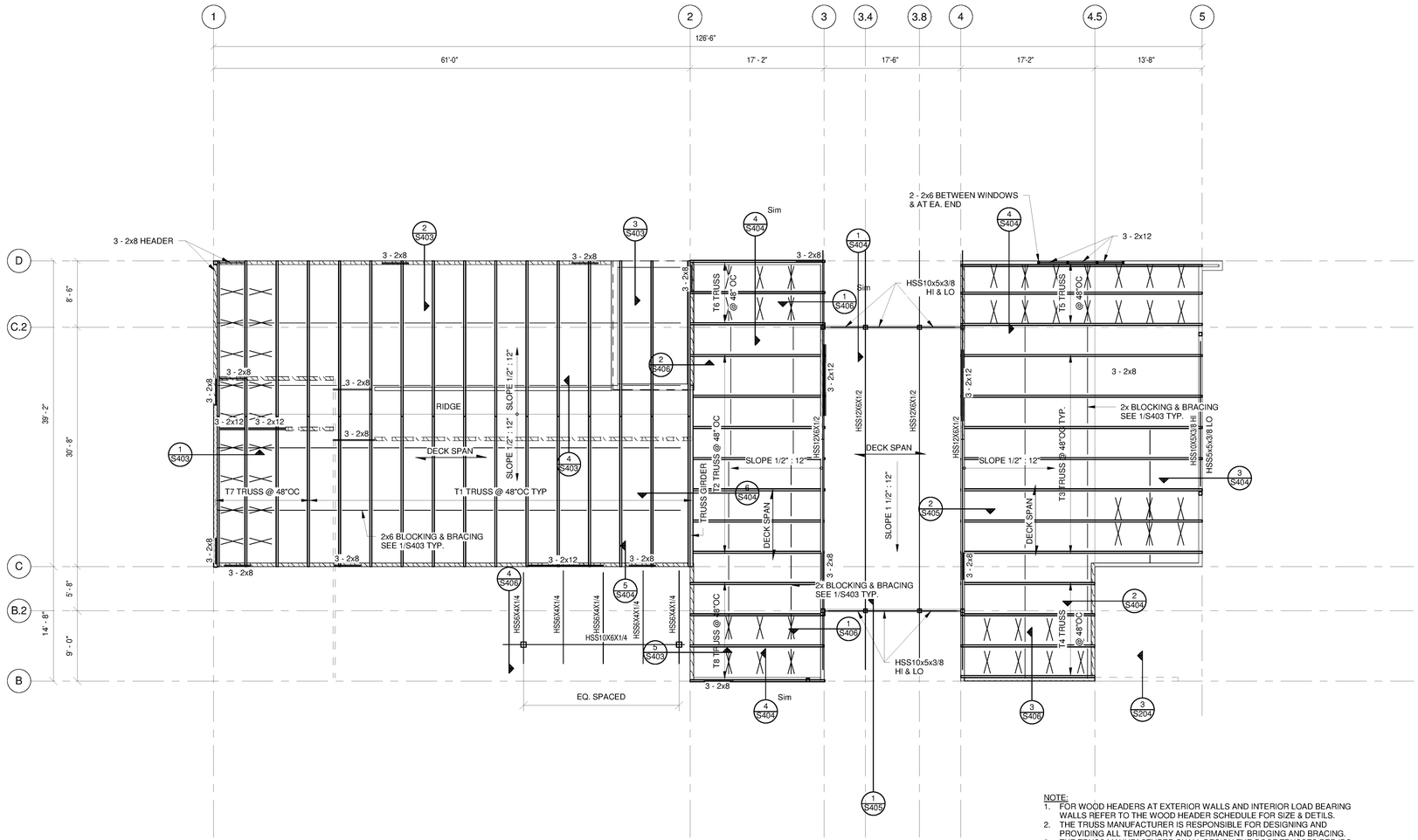

1 ROOF FRAMING PLAN

1/8" = 1'-0"

NOTE:

1. FOR WOOD HEADERS AT EXTERIOR WALLS AND INTERIOR LOAD BEARING WALLS REFER TO THE WOOD HEADER SCHEDULE FOR SIZE & DETILS.
2. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR DESIGNING AND PROVIDING ALL TEMPORARY AND PERMANENT BRIDGING AND BRACING.
3. THE TRUSS MANUFACTURER SHALL DESIGN THE ROOF TRUSSES PER IBC 2012 ASCE 7-10 INCLUDING CONCENTRATED AND WIND UPLIFT LOADS.
4. THE TRUSS MANUFACTURER MAY ADJUST THE TRUSS LAYOUT AS SHOWN, BUT SHALL COORDINATE WITH THE ENGINEER OF RECORD.
5. ALL EXTERIOR WALLS AND INTERIOR LOAD BEARING WALLS SHALL BE 2x6 SOUTHERN PINE NO. 2 AT 16"OC
6. COORDINATE WITH ARCH. DRAWINGS FOR EXACT LOCATIONS OF WALLS, WINDOWS & DOORS.
7. ALL TRUSSES SHALL HAVE TIES OR CLIPS TO RESIST WIND UPLIFT AND SHALL BE CLEARLY INDICATED ON THE TRUSS SHOP DRAWINGS.
8. THE DESIGN LIVE LOAD OF ATIC FLOOR IS 100 PSF. NO CONCRETE PAD IS ALLOWED.
9. WHEN SUPPORTING ITEMS SUCH AS HVAC EQUIPMENT, PIPES ETC FROM ROOF TRUSSES CONTRACTORS SHALL COORDINATE WITH EACH OTHER AND SELECT DIFFERENT TRUSSES FOR EACH DISCIPLINE. DO NOT HANG MULTIPLE ITEMS FROM ANY SINGLE TRUSS. USE ALTERNATE TRUSS.
10. ▨ - SHEAR WALL
11. ▨ - LOAD BEARING WALL
12. PLYWOOD SHEATHING SHALL BE 5/8" C-D EXP1 STRUCTURAL I WITH EXTERIOR GLUE AND SPAN RATIO OF 32/16. IT SHALL BE IN CONFORMANCE WITH APA STANDARDS. EQUIVALENT ORIENTED STRAND BOARD MAY BE USED IN LIEU OF PLYWOOD. THE PANELS SHALL HAVE TONGUE & GROOVE EDGE OR H-SHAPED METAL CLIPS.
13. DO NOT HANG ANYTHING FROM 2x10's OVER BREAK ROOM.
14. THE CORRIGATED BRICK ANCHORS SHALL BE 18GA. x 7/8" WIDE GALV. ANCHORED WITH 8d RING SHANK NAILS OR #10 GALV. SCREWS @ 16"OC BOTH VERTICALLY AND HORIZONTALLY.

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ROOF FRAMING PLAN
SHEET: S301

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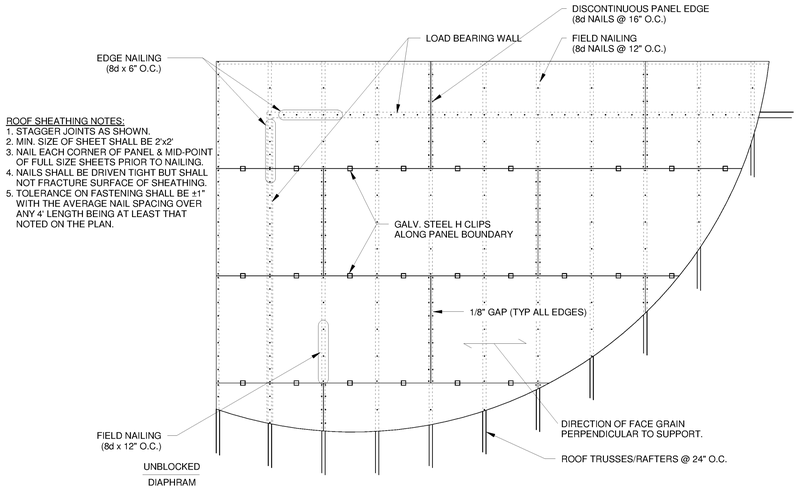
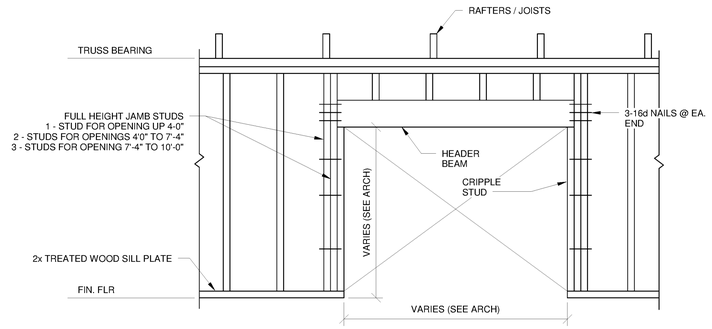
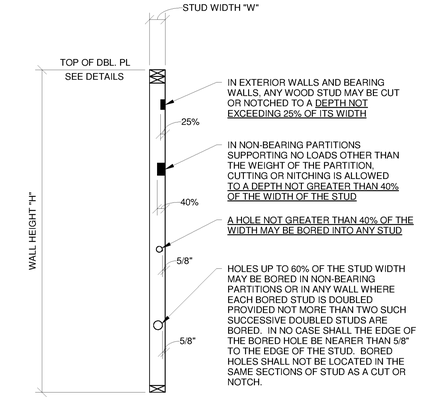


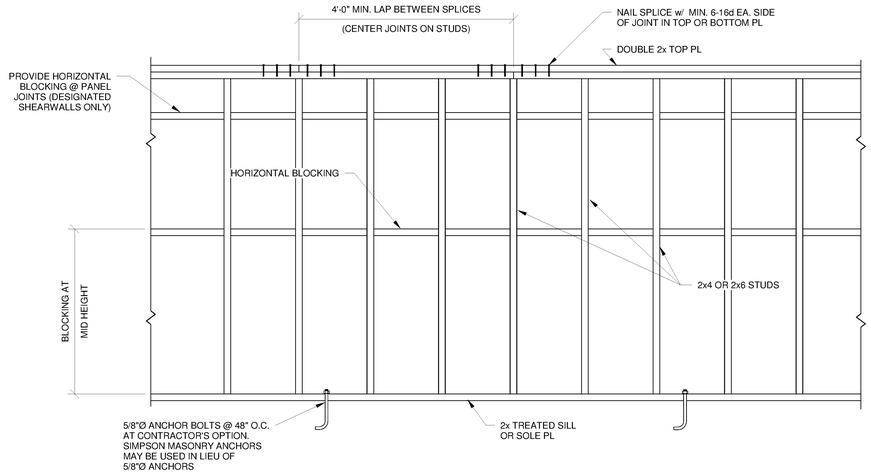
1 DETAIL - ROOF SHEATHING FASTENER PATTERNS
3/4" = 1'-0"



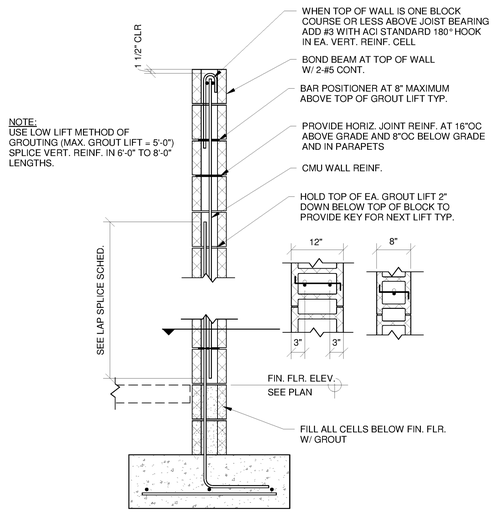
2 DETAIL - TYP. DOOR OPENING AT LOAD BEARING WALL
3/4" = 1'-0"



3 DETAIL - TYP. NOTCHING & BORING OF STUDS
3/4" = 1'-0"



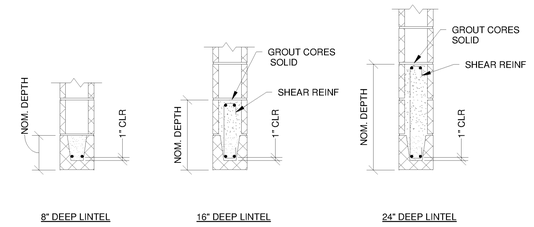
4 DETAIL - TYP. STUD BEARING WALL
3/4" = 1'-0"



5 DETAIL - CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"

MASONRY LINTEL SCHEDULE (ML)

CLEAR CMU OPENING NOT TO EXCEED	NOMINAL DEPTH	REINFORCEMENT	SHEAR REINF
4'-8"	8"	2-#4	NA
6'-8"	8"	2-#5	NA
8'-0"	16"	2-#5 T&B	NA
10'-0"	16"	2-#5 T&B	#3 @ 8" OC
12'-0"	24"	2-#6 T&B	#3 @ 8" OC



NOTES:
1. FOR SPANS 8'-0" AND LESS PROVIDE MINIMUM 8" BEARING. FOR SPANS GREATER THAN 8'-0" PROVIDE 16" BEARING @ JAMBS.
2. EXTEND BOTTOM REINF TO END OF BEARING EACH SIDE. TERMINATE TOP REINF W/ STD HOOK @ CONTROL JOINTS OR FREE EDGES.
3. PROVIDE SOLID GROUTED OR SOLID MASONRY JAMBS UNDER LINTEL EACH SIDE OF OPENING.
4. SPECIAL INSPECTION IS REQUIRED.
5. CONTROL OR EXPANSION JOINTS SHALL NOT BE PLACED @ BEARING POINTS OR WITHIN THE LINTEL.

6 DETAIL - MASONRY LINTEL SCHEDULE
3/4" = 1'-0"

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TYP FRAMING DETAILS

SHEET S401

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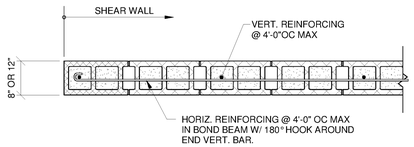
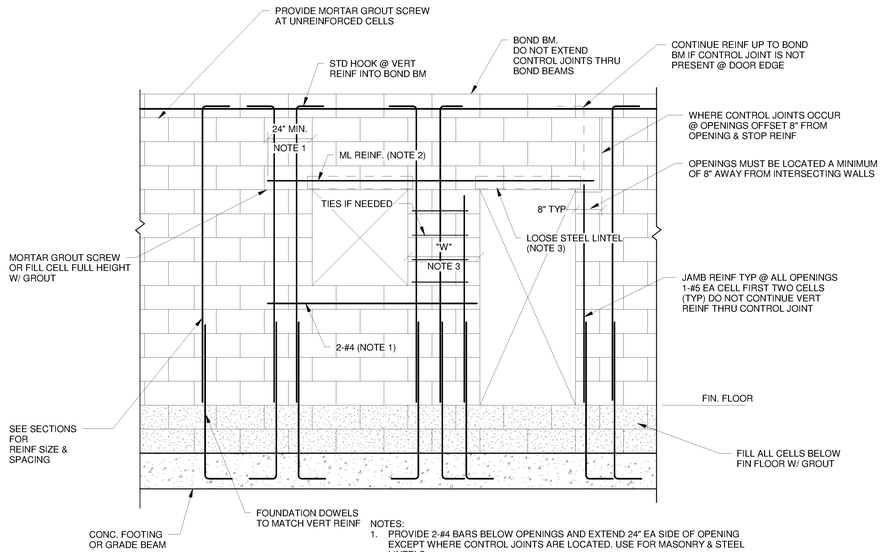


NOTES:
1. REFER TO SHEAR WALL SECTIONS FOR EXACT REINFORCING SIZES AND SPACING.
2. GROUT SOLID AT SHEAR WALLS.
3. COMPLY WITH MINIMUM REINFORCEMENT FOR SPECIAL REINFORCED SHEAR WALLS.
4 SPECIAL INSPECTION IS REQUIRED ON ALL SHEAR WALLS.

1 DETAIL - MASONRY SHEAR WALL
3/4" = 1'-0"



NOTES:
1. PROVIDE 2-#4 BARS BELOW OPENINGS AND EXTEND 24" EA SIDE OF OPENING EXCEPT WHERE CONTROL JOINTS ARE LOCATED. USE FOR MASONRY & STEEL LINTELS.
2. PROVIDE MASONRY LINTEL (ML) REINF. PER SCHEDULE. USE 2-#4 MINIMUM U.N.O.
3. PROVIDE #3 TIES ( ) AT 8" OC WHEN WIDTH "W" IS LESS THAN 48".
4. MASONRY LINTELS INDICATED, AT LOOSE STL LINTELS, REINF. BARS ARE NOT NEEDED ABOVE OPENINGS.

2 DETAIL - TYP. WALL REINFORCEMENT
3/4" = 1'-0"

LOOSE STEEL LINTEL SCHEDULE (LSL)

CLEAR OPENING NOT TO EXCEED	LINTEL	BEARING EA. END	REMARKS
6'-4" OR LESS	L3 1/2x3 1/2x5/16	8"	
OVER 6'-4" THRU 7'-4"	L4x3 1/2x5/16 LLV	8"	
OVER 7'-4" THRU 9'-4"	L6x3 1/2x5/16 LLV	8"	
OVER 9'-4" THRU 10'-8"	L7x4x7/16 LLV	8"	

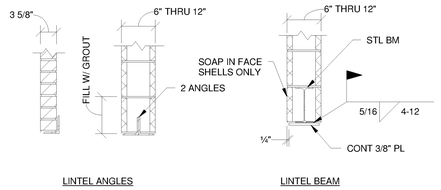
LINTEL ANGEL

NOTES:
1. USE THIS SCHEDULE UNLESS LINTEL SIZE NOTED OTHERWISE ON DRAWINGS OR DETAILS.
2. GALVANIZED ALL LINTELS EXPOSED TO EXTERIOR CONDITIONS.

3 DETAIL - LOOSE LINTEL SCHEDULE
3/4" = 1'-0"

LOOSE STEEL LINTEL SCHEDULE (LSL)

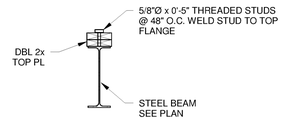
CLEAR OPENING NOT TO EXCEED	LINTEL	BEARING EA END	REMARKS
6'-4" OR LESS	L3½x3½x5/16	8"	
OVER 6'-4" THRU 7'-4"	L4x3½x5/16 LLV	8"	
OVER 7'-4" THRU 9'-4"	L6x3½x5/16 LLV	8"	
OVER 9'-4" THRU 10'-8"	L7x4x7/16 LLV OR W8x10	8"	



LINTEL ANGLES LINTEL BEAM

NOTES:
1. USE THIS SCHEDULE UNLESS LINTEL SIZES ARE NOTED OTHERWISE ON THE DRAWINGS OR DETAILS.
2. PROVIDE SOLID REINFORCED CELLS AT EACH JAMB FOR OPENINGS LARGER THAN 6'-0"
3. GALVANIZE ALL LINTELS EXPOSED TO EXTERIOR CONDITIONS.

4 DETAIL - STEEL LINTEL SCHEDULE
3/4" = 1'-0"



5 DETAIL - TOP PLATE TO BEAM
3/4" = 1'-0"

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A Division of Material Testings of Arkansas
P.O. Box 23715
Little Rock, AR. 72221
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Fax. 501.753.5747

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No. C-462
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9250
WENDUO YIN
11/7/16

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TYP FRAMING SECTIONS
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Robbins Engineering PLLC
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ARKANSAS ENGINEER

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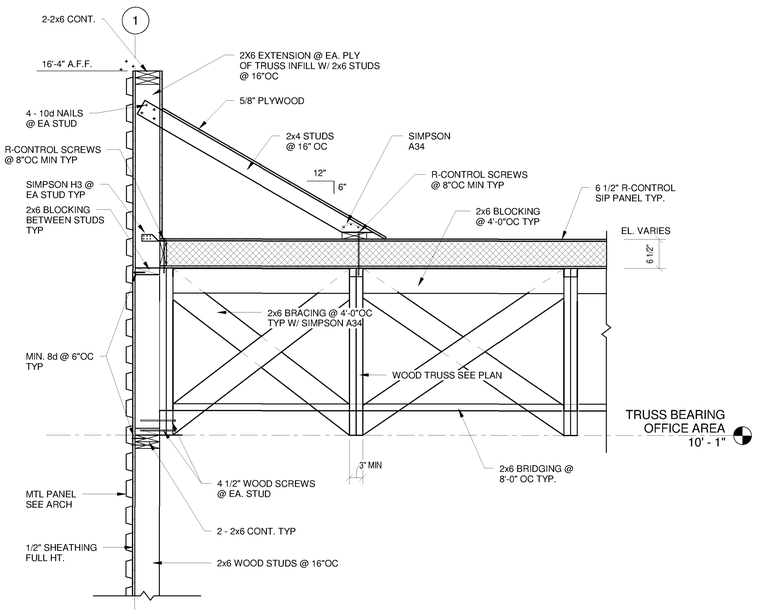
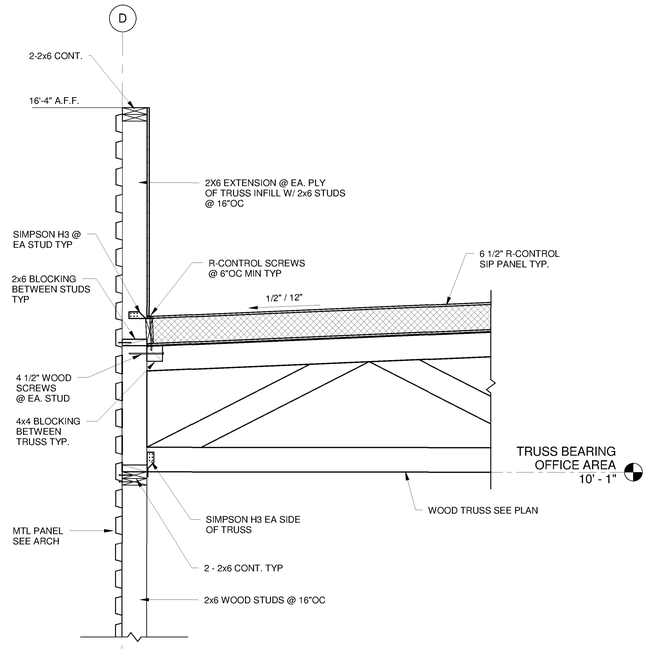
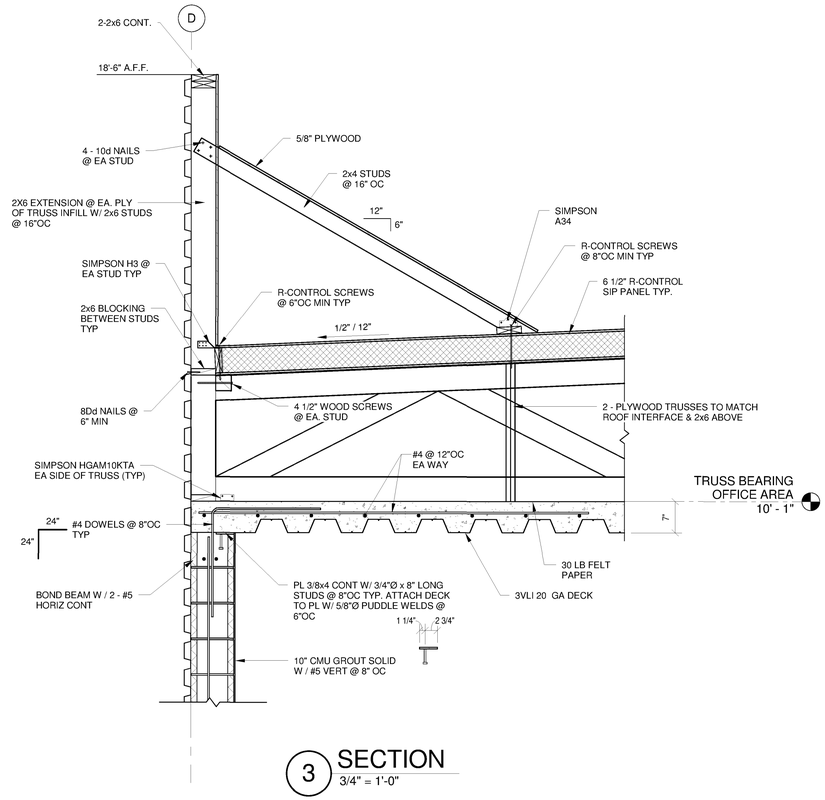


1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



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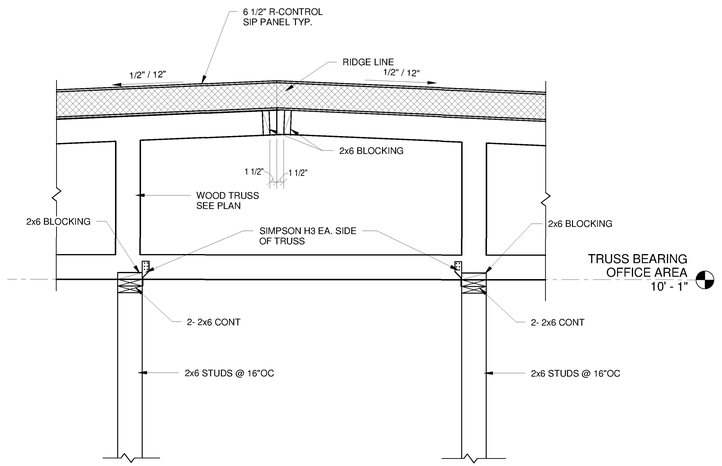

4 SECTION
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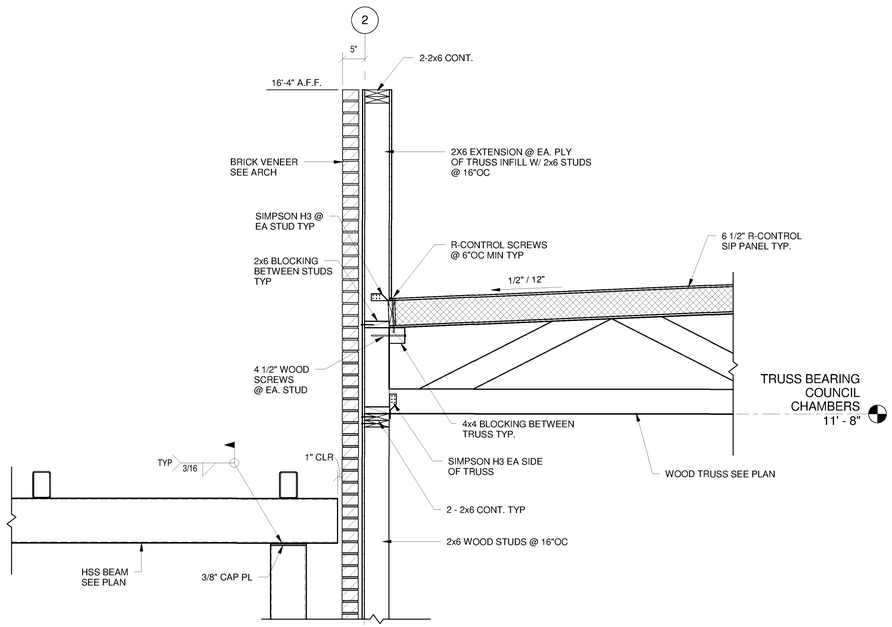

5 SECTION
3/4" = 1'-0"

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Little Rock, AR. 72221
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Fax. 501.753.5747

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SHEET: S403

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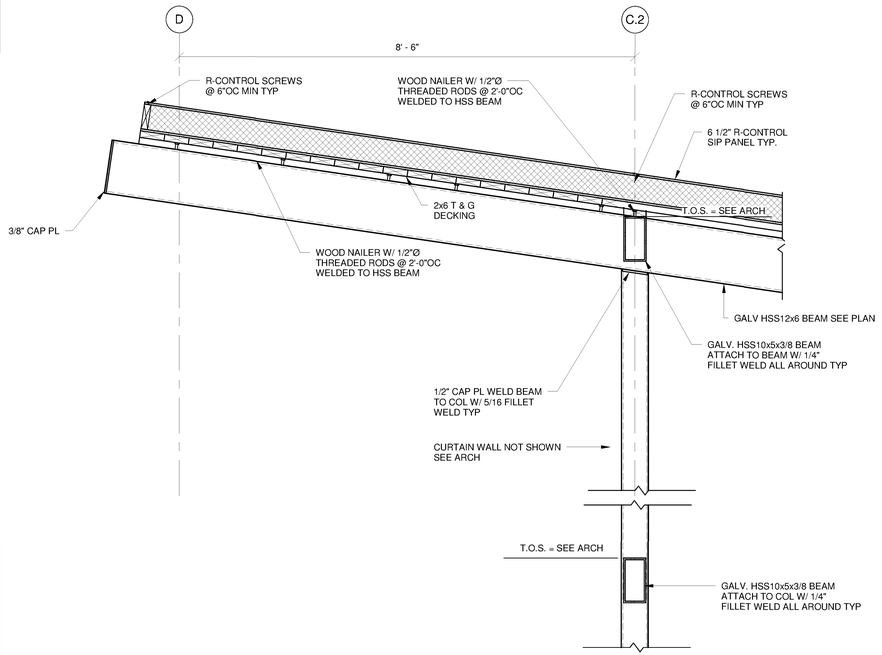

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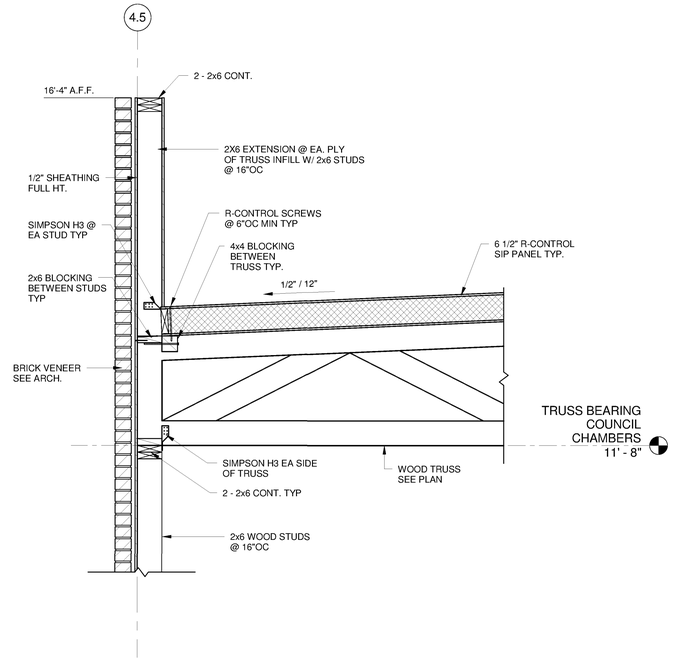

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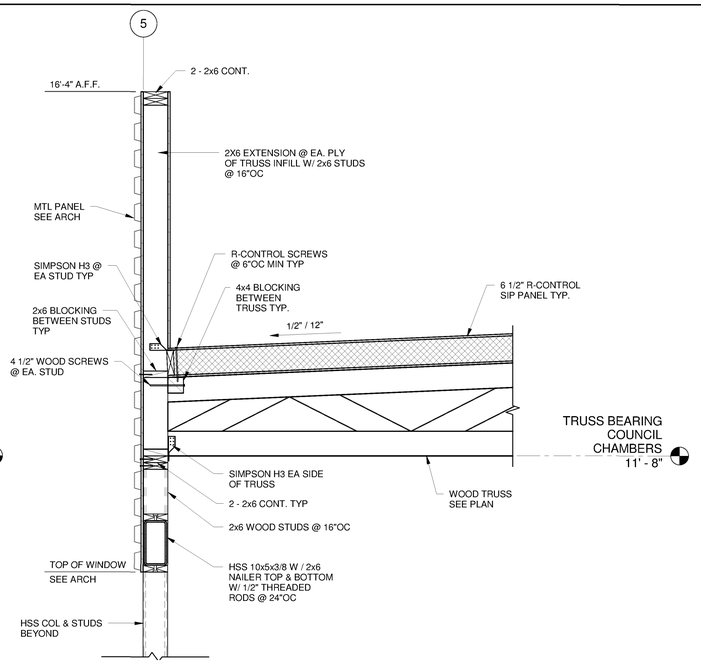
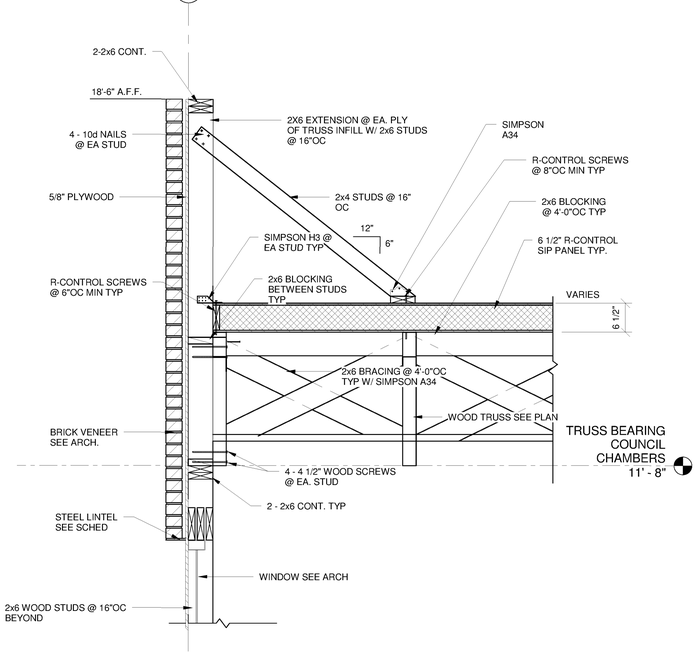


3 SECTION
3/4" = 1'-0"



4 SECTION
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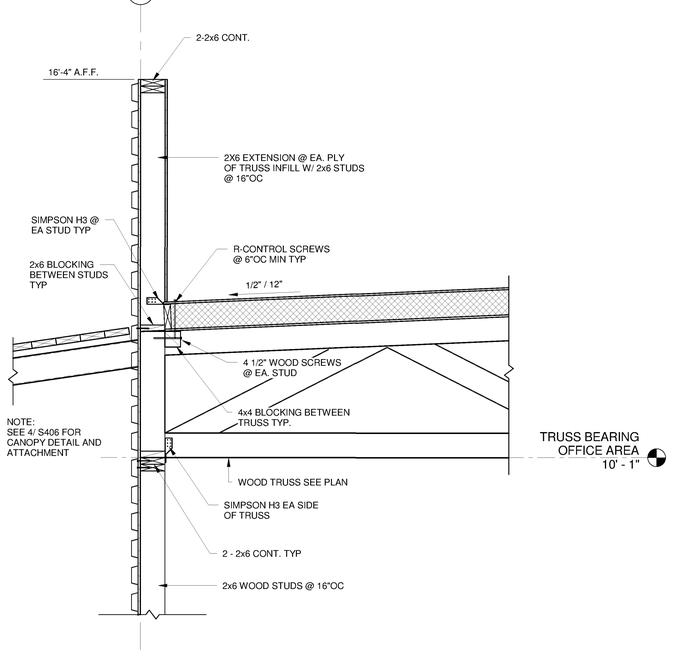

5 SECTION
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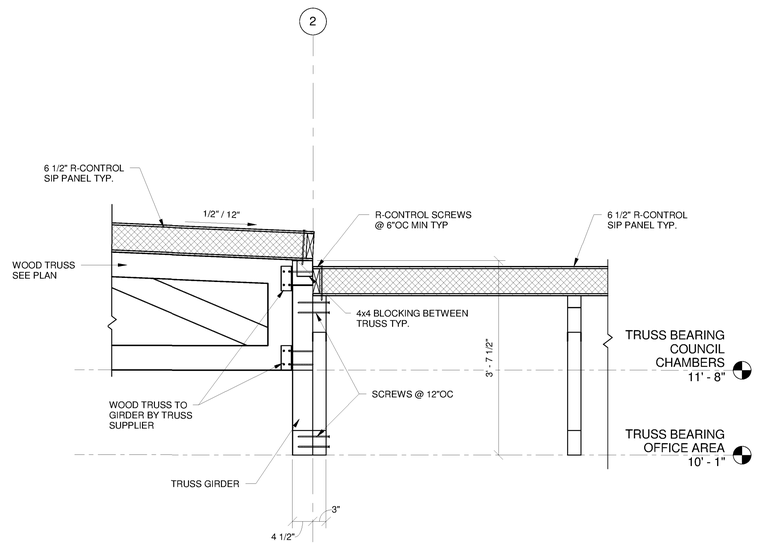

6 SECTION
3/4" = 1'-0"

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Little Rock, AR. 72221
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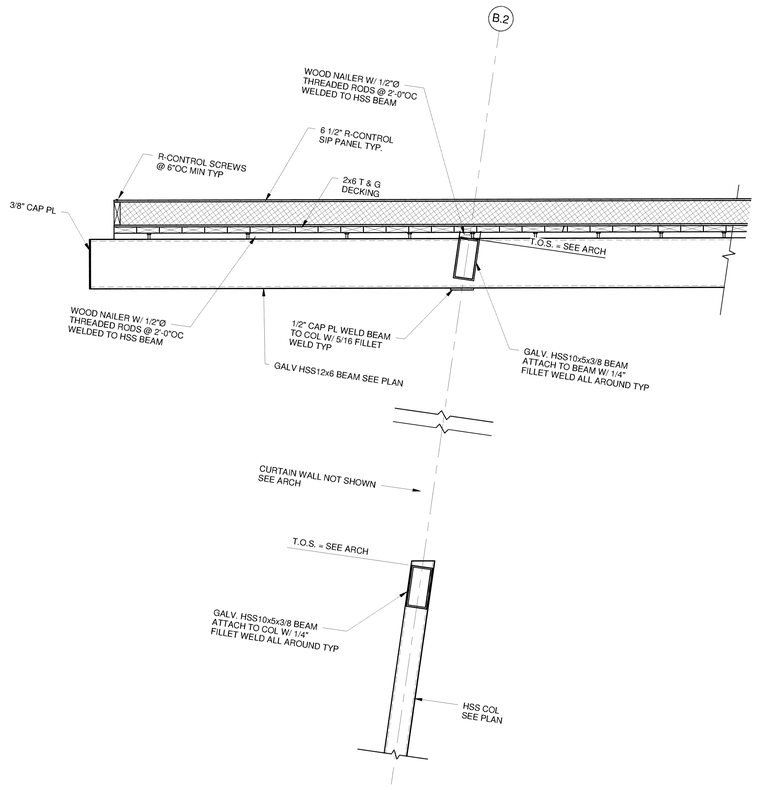

1 SECTION
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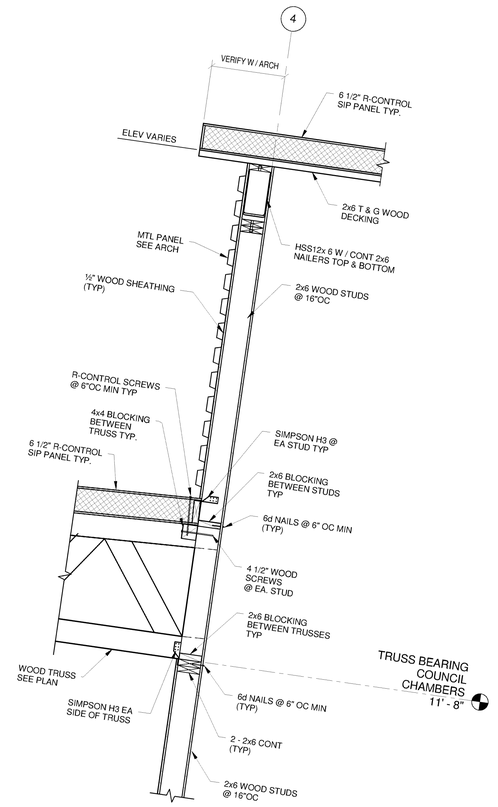

2 SECTION
3/4" = 1'-0"

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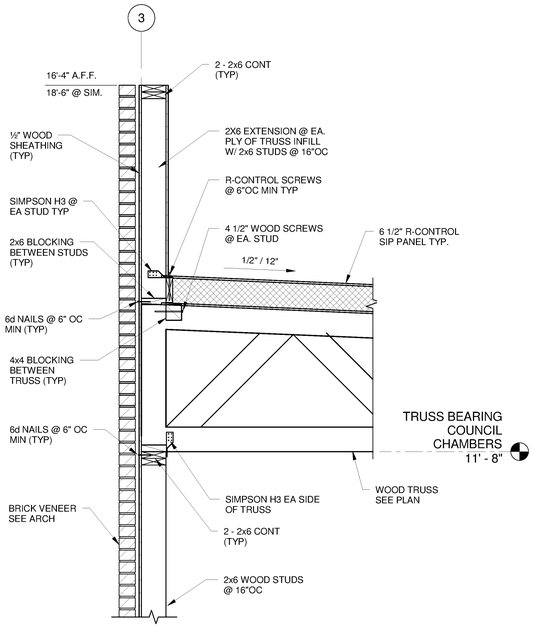
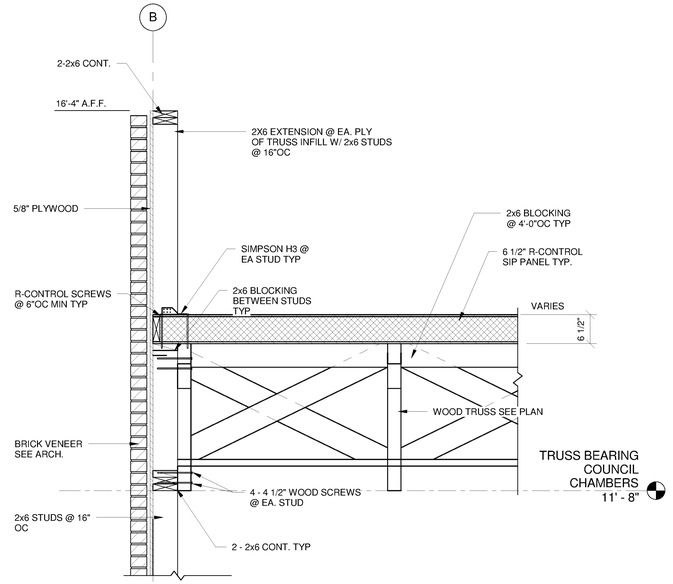
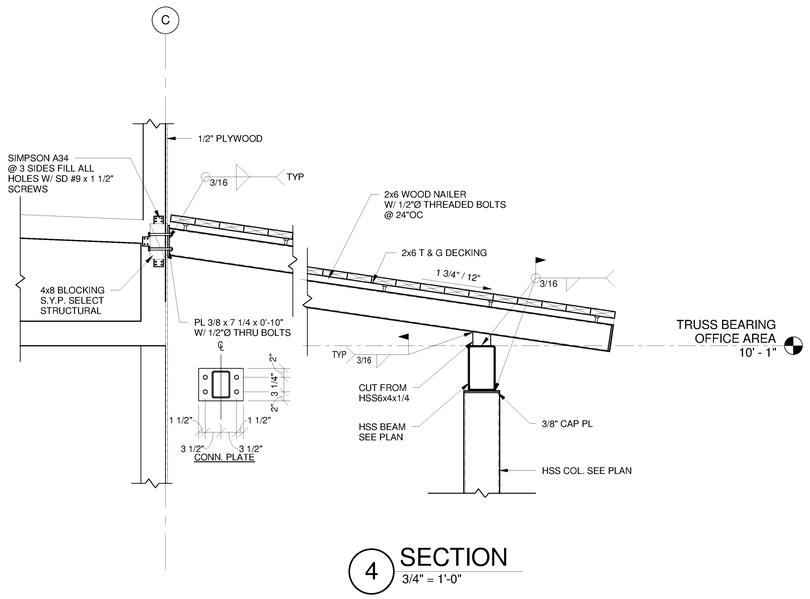


1 SECTION
3/4" = 1'-0"

2 SECTION
3/4" = 1'-0"



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



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

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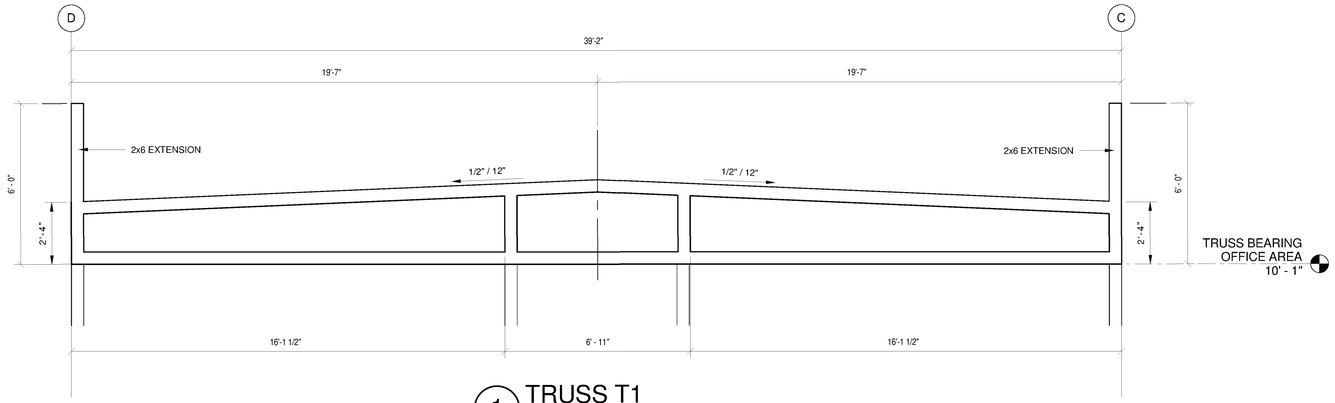
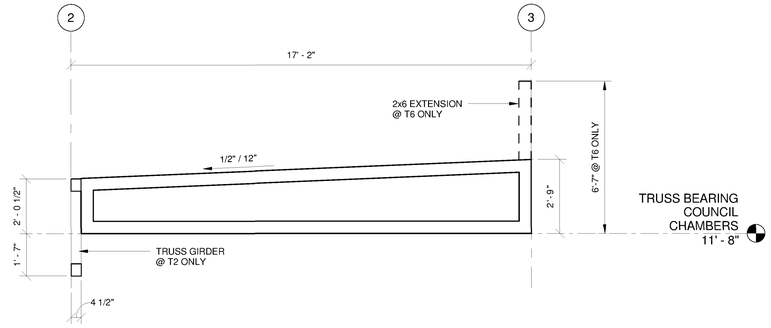
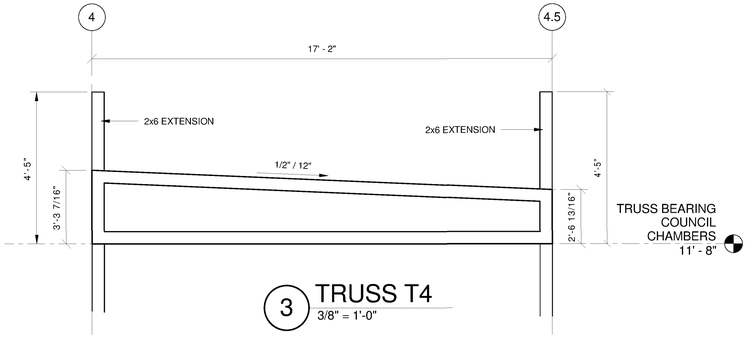


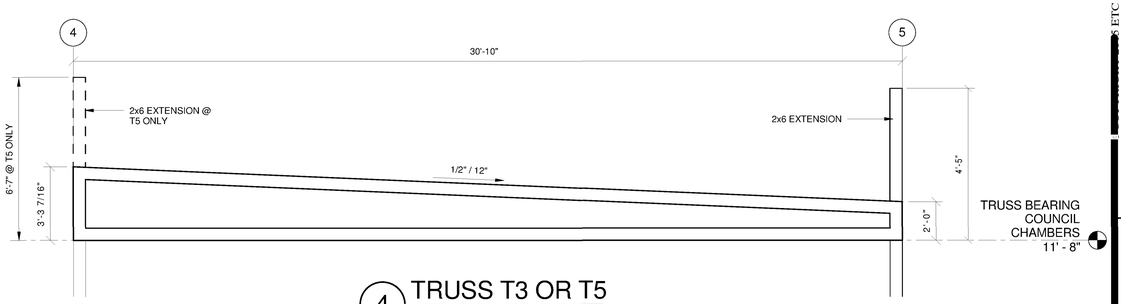
1 TRUSS T1
3/8" = 1'-0"



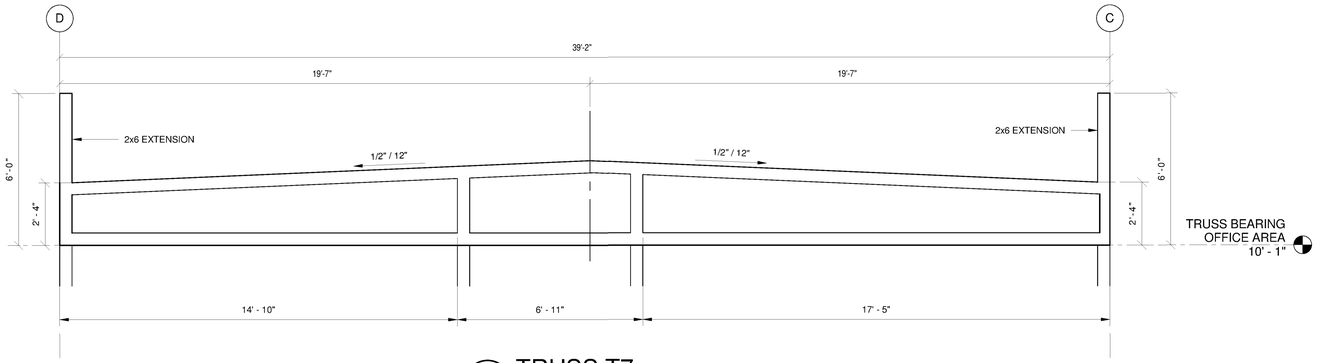
2 TRUSS T2 OR T6
3/8" = 1'-0"



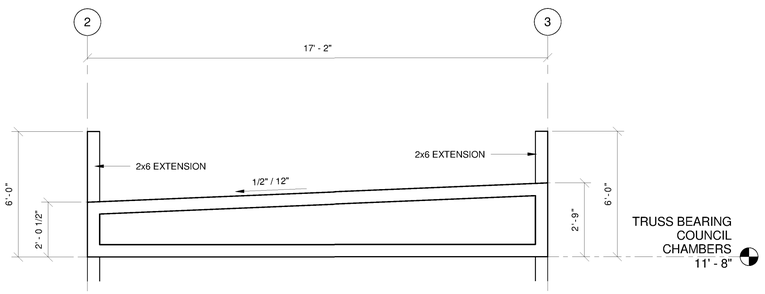
3 TRUSS T4
3/8" = 1'-0"



4 TRUSS T3 OR T5
3/8" = 1'-0"



5 TRUSS T7
3/8" = 1'-0"



6 TRUSS T8
3/8" = 1'-0"

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11/7/16

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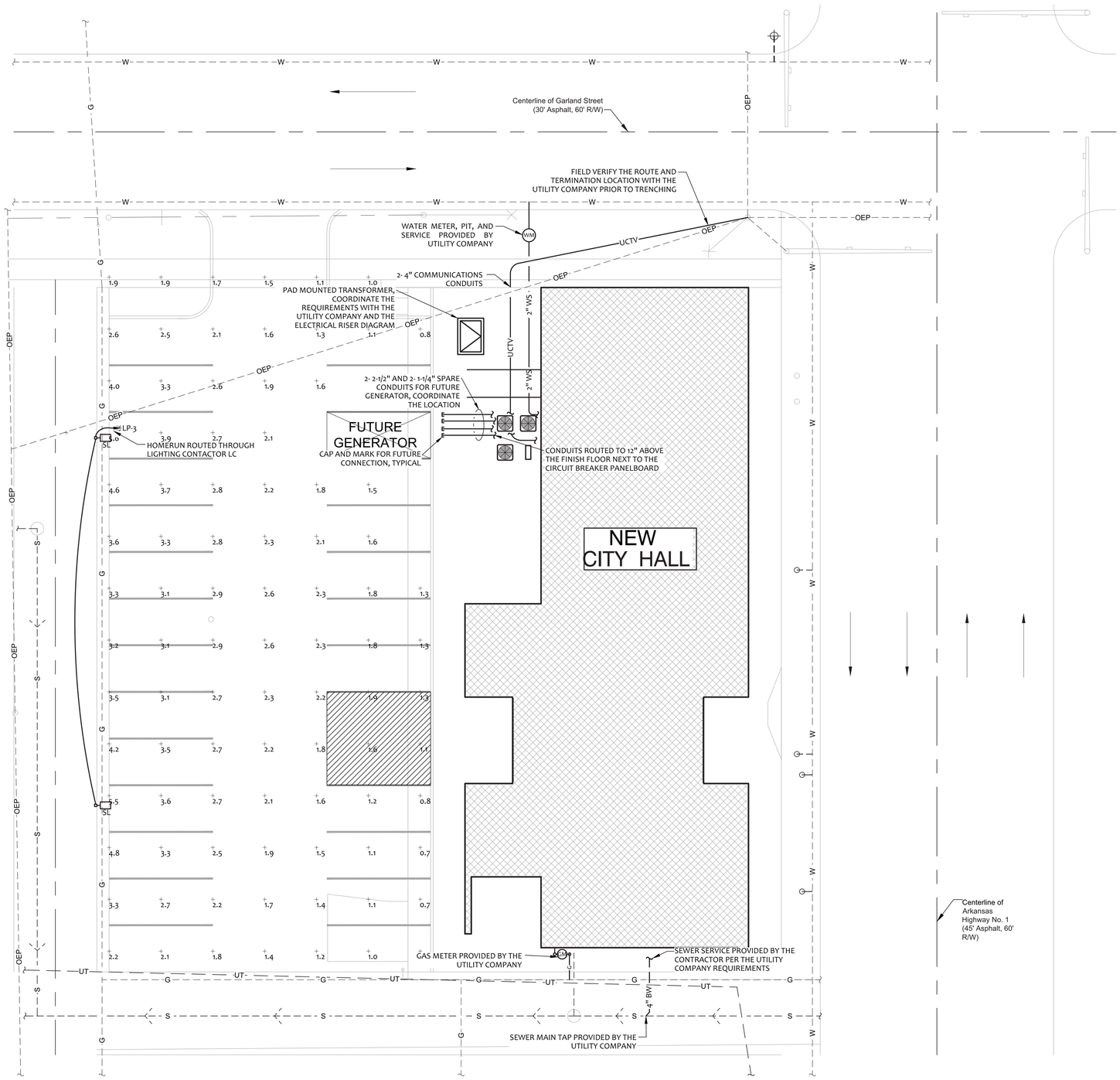

1 SITE UTILITY PLAN

0 6" 1' 2' 4'

UTILITY LINE LEGEND

NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN

EXISTING

- BW — BUILDING WASTE/DRAIN
- V — VENT
- S — SANITARY SEWER
- SD — STORM DRAIN
- SS — STORM SEWER
- W — WATER
- WS — WATER SERVICE
- G — GAS
- OEP — OVERHEAD ELECTRIC PRIMARY
- OES — OVERHEAD ELECTRIC SECONDARY
- UEP — UNDERGROUND ELECTRIC PRIMARY
- UES — UNDERGROUND ELECTRIC SECONDARY
- OT — OVERHEAD TELEPHONE
- UT — UNDERGROUND TELEPHONE
- FS — FIRE SPRINKLER SERVICE

NEW

- BW — BUILDING WASTE/DRAIN
- S — SANITARY SEWER
- V — VENT
- SD — STORM DRAIN
- SS — STORM SEWER
- W — WATER
- WS — WATER SERVICE
- G — GAS
- GS — GAS SERVICE TO THE BUILDING
- OEP — OVERHEAD ELECTRIC PRIMARY
- OES — OVERHEAD ELECTRIC SECONDARY
- UEP — UNDERGROUND ELECTRIC PRIMARY
- UES — UNDERGROUND ELECTRIC SECONDARY
- OT — OVERHEAD TELEPHONE
- UT — UNDERGROUND TELEPHONE
- UCATV — UNDERGROUND CABLE TELEVISION
- FS — FIRE SPRINKLER SERVICE

SITE UTILITIES GENERAL NOTES

A. ALL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL PLANS AND FIELD MEASUREMENTS FOR DIMENSIONS.
B. THE CONTRACTOR SHALL COORDINATE WITH ALL STATE AND LOCAL BUILDING REGULATION AGENCIES AND UTILITY COMPANY(S) IN THE PROCUREMENT OF AND PAYMENT OF ALL PERMITS, LICENSES, FEES AND CHARGES REQUIRED FOR THE PERFORMANCE OF THE WORK.
C. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND DIRECT EXPENSES INVOLVED IN ANY INSPECTION REQUIRED FOR THE PROJECT.
D. SHOULD A DISCREPANCY BETWEEN CONTRACT DOCUMENTS AND SPECIFICATIONS OCCUR, CONTRACTOR SHOULD IMMEDIATELY NOTIFY THE ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH WORK.
E. ADDITIONAL WORK BEYOND THE SCOPE OF THIS CONTRACT SHALL NOT BE AUTHORIZED EXCEPT AS DIRECTED BY THE ENGINEER AND WITH APPROVAL OF THE OWNER.
F. THE CONTRACTOR SHALL PREPARE AND SEND SUBMITTALS TO THE ENGINEER OF ALL MATERIALS AND EQUIPMENT PROPOSED TO BE USED ON THE JOB AFTER BEING AWARDED THE CONTRACT. THE SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER FOR QUALITY AND PERFORMANCE TO THE ITEMS SPECIFIED.
G. COORDINATE WORK WITH THE WORK OF ALL TRADES ON THE PROJECT.
H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING COMPLETE AND FUNCTIONAL SYSTEMS IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
I. THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING DURING THE PERIOD OF CONSTRUCTION. VERIFY ALL POSSIBLE SCHEDULING CONFLICTS WITH THE OWNER'S REPRESENTATIVE.
J. CONTRACTOR SHALL COORDINATE WITH THE "UTILITY COMPANY(S)" TO PROVIDE THE UTILITY SERVICE(S) AS SHOWN.
K. ALL WORK SHOWN SHALL BE INCLUDED IN THE BASE BID UNLESS OTHERWISE NOTED.

UTILITY CONTACT INFORMATION

WATER SERVICE
FORREST CITY WATER
CONTACT SAM ARMSTRONG (870)270-3530

SEWER SERVICE
FORREST CITY WATER
CONTAC T CORNELL PIPER (870)581-0824

GAS SERVICE
CENTERPOINT
CONTACT DIANNA NICKS (870)735-1086

ELECTRIC SERVICE
ENTERGY
CONTACT (800)368-3749

CABLE TV SERVICE
EAST ARKANSAS MEDIA
CONTACT (870) 633-8935 EXT 301

TELEPHONE SERVICE
AT&T
CONTACT (800)248-8484

GHN CONSULTING ENGINEERS
300 South Jefferson Avenue, Suite 301, Springfield, MO 65806
P: 417.869.0719 | F: 417.869.3044 | W: www.ghnae.com

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 15268 BRADEN S. COX
Braden S. Cox 15268 DATE 11/07/2016

HILL NORTHROSS ASSOCIATES — CERTIFICATE OF AUTHORIZATION — FEDERAL ENGINEERING — CASEM — ghn architects+engineers — COA 1078

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FORREST CITY NEW CITY HALL

FORREST CITY, AR

ISSUE / DATE	NOVEMBER 7, 2016
DATE	11/07/2016
PROJECT NO.	16548.00
PROJECT PHASE	Construction Documents
DRAWN BY:	BMB
CHECKED BY:	BSC

SITE UTILITY PLAN

C6.0

PLUMBING GENERAL NOTES

A. ALL PLUMBING AND NATURAL GAS WORK SHALL COMPLY WITH 2012 EDITION OF THE "INTERNATIONAL PLUMBING CODE" AND 2012 EDITION OF THE "INTERNATIONAL MECHANICAL CODE", LATEST EDITION OF NFPA, ALL STATE AND LOCAL CODES, AND PROJECT SPECIFICATIONS.

B. VISIT THE SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.

C. VERIFY UTILITY LOCATIONS AND INVERTS, PRIOR TO ROUTING SERVICES. COORDINATE ALL BUILDING WASTE, SANITARY SEWER, STORM DRAINS, FIRE AND DOMESTIC WATER LINES AND NATURAL GAS LINES WITH CIVIL PLANS, REFER TO THE CIVIL PLANS FOR CONTINUATION OF ALL UTILITY LINES.

D. PAY ALL UTILITY FEES AND CHARGES AS PART OF BASE BID IN THE CONTRACT.

E. 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. DO 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. 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 ADDITIONAL INFORMATION.

F. THE 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 CONTRACTOR(S) 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.

G. 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.

H. COORDINATE WORK WITH THE WORK OF ALL TRADES ON THE PROJECT.

J. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.

K. ALL PIPING PENETRATIONS OF THE FLOOR, RATED CEILING AND WALL MUST BE MADE WITH A METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.

L. PROVIDE THE FINAL CONNECTION FOR THE SUPPLY, WASTE AND GAS REQUIREMENTS FOR THE EQUIPMENT. PROVIDE FITTINGS AS REQUIRED FOR COMPLETE PLUMBING INSTALLATION AS PER REQUIREMENTS ON DRAWINGS.

M. PROVIDE STOP VALVES ON EVERY FIXTURE ON BOTH HOT AND COLD WATER SUPPLY LINES. ESCUTCHEONS, FITTINGS, ETC. SHALL BE CHROME PLATED WHERE EXPOSED.

N. ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. IF ANY MATERIALS DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM-BOARD ENCLOSURE, BE 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, CPVC) IS NOT APPROVED TO BE INSTALLED WITHIN RETURN AIR PLENUMS UNLESS WRAPPED AS NOTED ABOVE. COORDINATE ALL RETURN AIR PLENUM LOCATIONS PRIOR TO BID.

O. DO NOT ROUTE ANY PIPING OVER ELECTRIC ROOMS, COMPUTER ROOMS, OR ELECTRIC PANELS.

P. PROVIDE A LINTEL AT ALL NEW OPENINGS (EXCEEDING 12" WIDE) IN NEW OR EXISTING WALLS.

Q. ALL VENT PIPING SHALL BE 1-1/2" UNLESS OTHERWISE NOTED.

R. SLOPE 2-1/2" AND SMALLER BUILDING WASTE LINES AT MINIMUM OF 1/4" FALL PER FT. AND 3" AND LARGER SANITARY SEWER LINES AT MINIMUM 1/8" FALL PER FT. VERIFY INVERTS WITH SITE UTILITY PLANS AND COORDINATE INSTALLATION TO ASSURE PROPER FLOW.

S. PROVIDE CLEAN OUTS IN ALL WASTE, SANITARY, STORM DRAINAGE AND OVERFLOW LINES WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES, AND ON ALL VERTICAL RISERS AT HEIGHT OF 30" A.F.F. AT THE BASE OF EACH STACK.

T. FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT LAYOUT. ALL FLOOR DRAINS SHALL HAVE A 4" DEEP SEAL TRAP MINIMUM.

U. AN APPROVED TRAP GUARD PRODUCT CONFORMING TO NSF-14, CSA B602-99 AND CSA B79-94) SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.

V. ALL STORM DRAIN, CONDENSATE DRAIN, WASTE, SEWER AND VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF CONSTRUCTION.

W. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES AND PLUMBING VENTS.

X. BUILDING WASTE OR THE SANITARY SEWER AND DOMESTIC WATER SHALL BE SEPARATED BY 10 FEET, OR THE DOMESTIC WATER SERVICE SHALL BE 12 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT, IF PLACED IN THE SAME TRENCH.

Y. EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE FROM BELOW. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO CONSTRUCTION.

Z. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES AS REQUIRED.

AA. PROVIDE BACK FLOW PREVENTION OR AN ANTI-SIPHON DEVICE AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.

AB. INSTALL LISTED NATURAL GAS VALVE IMMEDIATELY AHEAD OF EACH NATURAL GAS PRESSURE REGULATOR, AND AT EACH PIECE OF GAS FIRED EQUIPMENT.

AC. INSULATE ALL ABOVE GRADE SUPPLY PIPING AND ALL ABOVE GRADE STORM DRAIN PIPING.

AD. INSULATE ALL ABOVE GRADE CONDENSATE DRAIN PIPING WITH 1/2" ARMAFLEX INSULATION.

AE. PROVIDE INSULATION AT ALL EXPOSED HOT WATER AND DRAIN PIPING FOR HANDICAPPED FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.

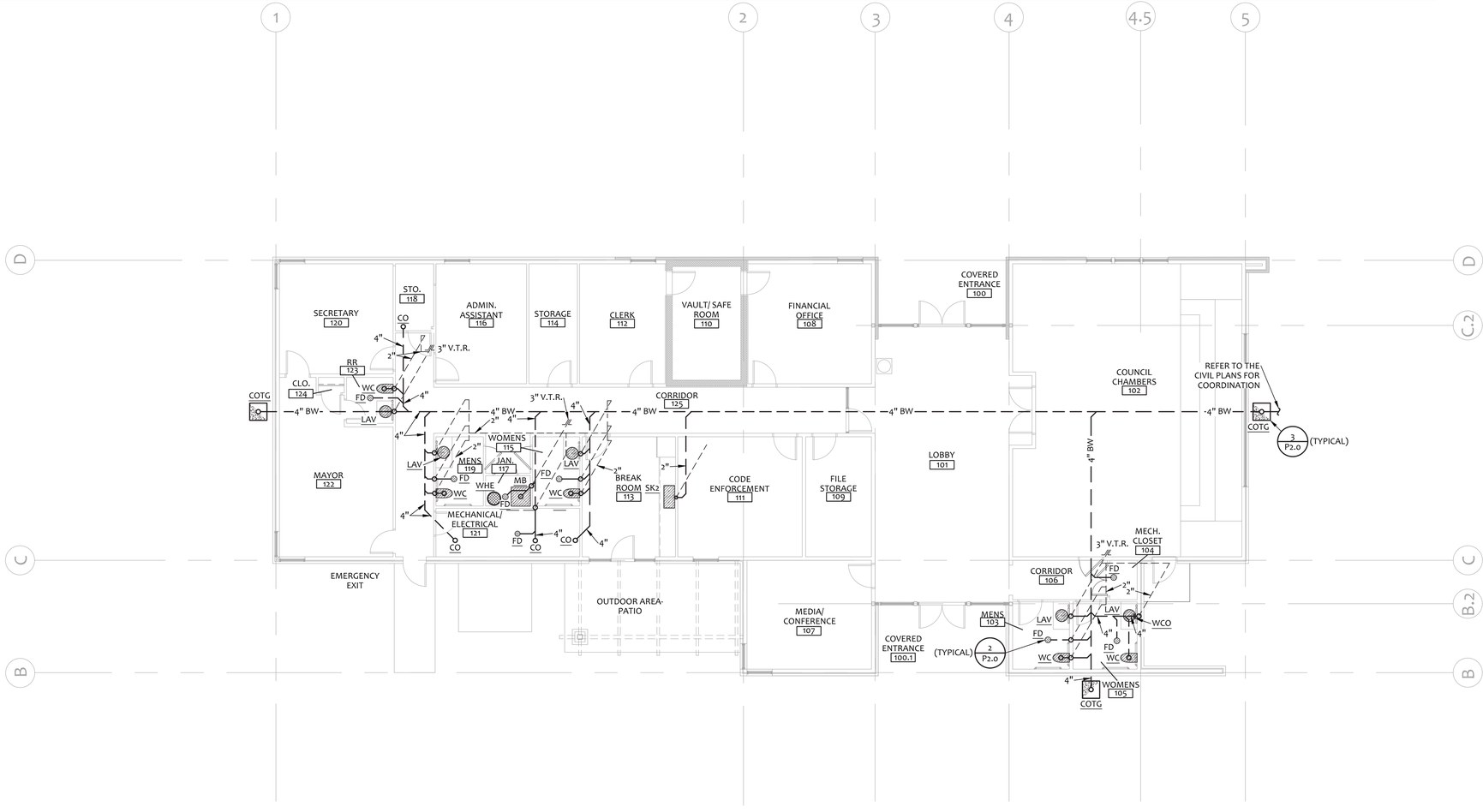
AF. ALL DOMESTIC WATER AND SPRINKLER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED ON THE INTERIOR OF THE INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. REFER TO THE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. UNLESS OTHERWISE INDICATED DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.

AG. 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.

PLUMBING SYMBOLS LEGEND

NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN

- BELOW GRADE WASTE PIPING
- ABOVE GRADE WASTE PIPING
- SS — SANITARY SEWER PIPING
- BW — BUILDING WASTE AND DRAIN PIPING
- SD — STORM DRAIN PIPING
- RD — ROOF DRAIN PIPING
- OD — OVERFLOW ROOF DRAIN PIPING
- VENT PIPING
- FPM — FIRE SPRINKLER MAIN PIPING
- COLD WATER SUPPLY PIPING
- HOT WATER SUPPLY PIPING
- HOT WATER RETURN PIPING
- G — NATURAL GAS PIPING
- LPG — PROPANE GAS PIPING
- PIPING DOWN (TEE DOWN TO ELBOW, ELBOW DOWN TO TEE, ELBOW, TEE)
- PIPING UP (TEE, ELBOW)
- TEE (DOWN, SIDE, UP)
- WATER HAMMER ARRESTOR (WHA)
- DIELECTRIC UNION
- VALVE
- CHECK VALVE
- GAS PLUG VALVE
- GAS PRESSURE REGULATOR
- HOSE BIBB
- BACKFLOW PREVENTER
- REDUCED PRESSURE BACKFLOW PREVENTER
- GM — GAS METER
- WM — WATER METER
- PLUMBING EQUIPMENT
- PLUMBING FIXTURE PROVIDED BY THE CONTRACTOR
- CLEANOUT AT THE END OF PIPE
- FINISH FLOOR CLEANOUT
- COTG — CLEANOUT TO (FINISH) GRADE (COTG)
- 3"V.T.R. — VENT THROUGH THE ROOF
- CONNECT TO THE EXISTING



1 WASTE AND VENT PIPING PLAN

0 1' 2' 4' 8' 12'

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 15268 Braden S. Cox
Braden S. Cox 15268 DATE 11/07/2016

CERTIFICATE OF AUTHORIZATION HILL NORTHCOTT & ASSOCIATES — ENGINEERING SERVICES
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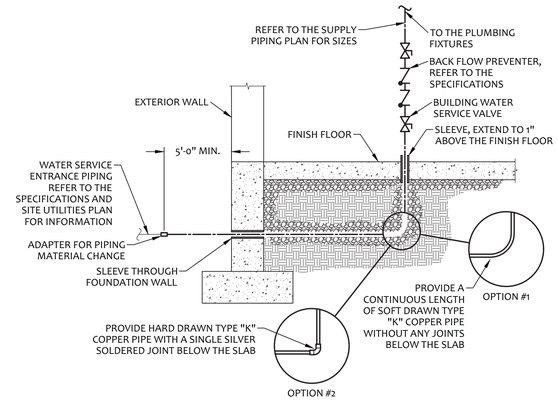
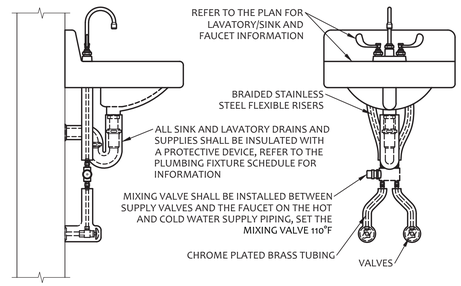
WASTE AND VENT PIPING PLAN

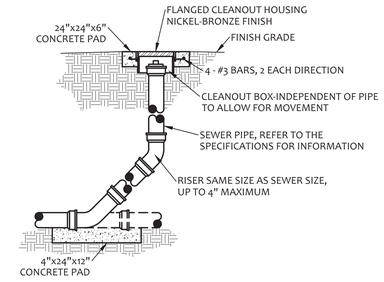
P1.0



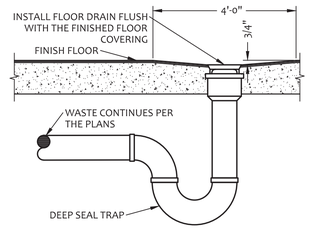
6 WATER SERVICE ENTRANCE
NOT TO SCALE



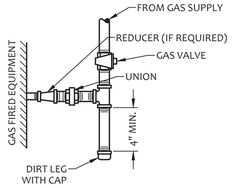
4 LAVATORY INSTALLATION DETAIL
NOT TO SCALE



3 CLEANOUT-TO-GRADE DETAIL
NOT TO SCALE



2 FLOOR DRAIN DETAIL
NOT TO SCALE



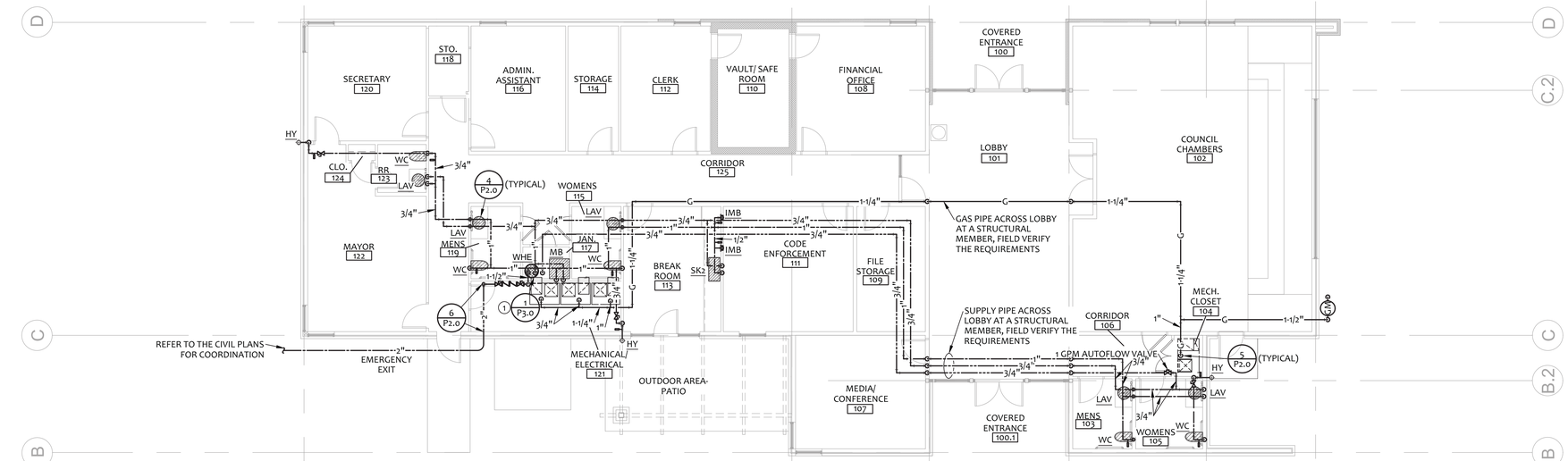
5 GAS CONNECTION DETAIL
NOT TO SCALE

KEY NOTES
1. 1" HOT AND COLD, AND 3/4" HOT WATER RE-CIRC DOWN TO THE WATER HEATER

GAS LOAD

EQUIPMENT	MBH
FURNACE F-1	100
FURNACE F-2	80
FURNACE F-3	80
FURNACE F-4	100
TOTAL	360

PIPE SIZING BASED ON INTERNATIONAL FUEL GAS CODE TABLE 402.4 (2)
GAS PIPING SIZED USING LONGEST RUN OF PIPING OF 140'-0", AN INLET PRESSURE DROP OF 1/2" OF WATER COLUMN AND A SPECIFIC GRAVITY OF 0.6.



1 SUPPLY PIPING PLAN
0 1' 2' 4' 8' 12'

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PROJECT NO.	16548.00
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SUPPLY PIPING PLAN

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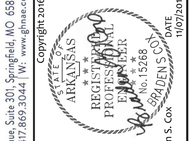

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ELECTRIC WATER HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL	INPUT KW	VOLT/ PHASE	RECOVERY @ 100° F. RISE GPH	STORAGE CAPACITY GALLONS	REMARKS
WHE	AO SMITH	DEL-40D	4.5	240/1	18	40	1

REMARKS:

1. 140 DEGREE F. TANK STORAGE TEMPERATURE.

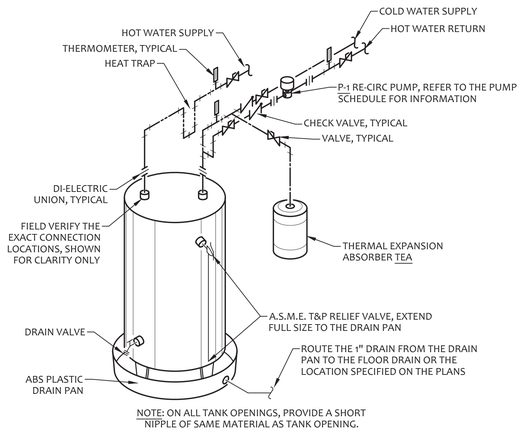
PUMP SCHEDULE											
MARK	MANUFACTURER	MODEL	WATER FLOW RATE GPM	TOTAL HEAD FT. OF H_2O	PUMP RPM	MOTOR BHP	MOTOR MHP	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	REMARKS
P-1	BELL & GOSSETT	e3-6V/B_XRC	1	9	-	-	28W	120/1	<1	20	ECM, TH, TM	1

ACCESSORIES:

ECM - ADJUSTABLE SPEED ECM MOTOR
TH - ADJUSTABLE THERMOSTAT
TM - ADJUSTABLE TIMER

REMARKS:

1. CONNECTIONS AS REQUIRED BY PIPING TYPE..



NOTE: ON ALL TANK OPENINGS, PROVIDE A SHORT NIPPLE OF SAME MATERIAL AS TANK OPENING.

1 WATER HEATER DETAIL
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCET	WASTE	VENT	CONN. SIZE HOT	CONN. SIZE COLD	REMARKS
WC	ADA FLUSH TANK WATER CLOSET	ZURN	Z5550	SEAT	-	4"	2"	-	1/2"	1
LAV	OVAL COUNTERTOP DROP-IN LAVATORY	KOHLER	SERIF K-2075-1-0	OFFSET GRID STRAINER AERATOR	KOHLER K-7516	2"	1-1/2"	1/2"	1/2"	4
SK2	DOUBLE COMPARMENT STAINLESS STEEL SINK	ELKAY	ECTSR33229BG	STRAINER, GARBAGE	ELKAY LK7922SS	2"	1-1/2"	1/2"	1/2"	7
MB	STONE MOP BASIN	FIAT	MSB-24x24	HANGER, GUARD, HOSE FAUCET	FIAT #830-AA	3"	1-1/2"	1/2"	1/2"	3
IMB	ICE MAKER VALVE BOX	GUY GRAY	BIM875QT	QUARTER TURN VALVE	-	-	-	-	1/2"	6
FD	CAST-IRON BODY FLOOR DRAIN	ZURN	ZN-Z415B	-	-	3"	1-1/2"	-	-	-
HY	FREEZE-PROOF ANTI-SIPHON WALL HYDRANT	ZURN	Z1321-WC	ANTI-SIPHON, VACUUM BREAKER	-	-	-	-	3/4"	5
CO	FINISH FLOOR CLEANOUT	ZURN	ZN-Z1400-BZ	CARPET	-	-	-	-	-	8
COTG	CLEANOUT TO GRADE	ZURN	Z1474	-	-	4"	-	-	-	8
WCO	WALL CLEANOUT	ZURN	Z1446	-	-	4"	-	-	-	2,8
TEA	THERMAL EXPANSION ABSORBER	AMTROL	ST-12	-	-	-	-	-	3/4"	-

ACCESSORIES:

AERATOR - 0.5 GPM VANDAL-RESISTANT STRAINER
CARPET - CARPET MARKER WHERE REQUIRED
FAUCET - FIAT SERVICE FAUCET #830-AA
GARBAGE - GARBAGE DISPOSAL EQUAL TO IN-SINK-ERATOR BADGER 5
HANGER - FIAT MOP HANGER #889-CC
HOSE - FIAT HOSE AND HOSE BRACKET #832-AA
GUARD - FIAT STAINLESS STEEL WALL GUARD #MSG2424
SEAT - ZURN #Z5956SS-EL (HEAVY DUTY) OPEN FRONT WHITE SEAT
STRAINER - CHROME BASKET STRAINER

REMARKS:

1. HANDLE ON THE WIDE SIDE OF THE STALL.
2. REFER TO THE ARCHITECTURAL PLANS FOR THE MOUNTING HEIGHT.
3. FAUCET SHALL HAVE A VACUUM BREAKER.
4. INSULATE THE SUPPLY AND DRAIN PIPING WITH A WHITE INSULATION DEVICE EQUAL TO McGUIRE MODEL NO. PW-2150-WC AND PROVIDE A THERMOSTATIC MIXING VALVE ON THE SUPPLIES EQUAL TO WATTS MODEL NO. USG-B.
5. VERIFY WALL THICKNESS REQUIREMENTS, REFER TO THE ARCHITECTURAL PLANS.
6. VALVE BOX MOUNTED WITH THE BOTTOM AT 12" ABOVE THE FINISH FLOOR.
7. NO QUICK CLIPS ALLOWED.
8. REFER TO THE PLAN FOR THE SIZE.

ISSUE / DATE NOVEMBER 7, 2016

DATE 11/07/2016
PROJECT NO. 16548.00
PROJECT PHASE Construction Documents
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PLUMBING SCHEDULES & DETAILS

P3.0

MECHANICAL SYMBOLS LEGEND

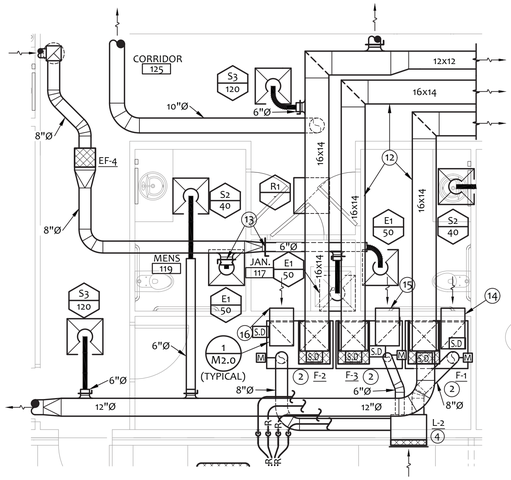
NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN.

- SUPPLY AIR CEILING GRILLE
- RETURN AIR CEILING GRILLE
- EXHAUST AIR CEILING GRILLE
- NEW EQUIPMENT
- EXISTING EQUIPMENT
- DEMOLISHED EQUIPMENT
- NEW DUCTWORK
- EXISTING DUCTWORK
- DEMOLISHED DUCTWORK
- MEDIUM PRESSURE DUCT
- 12X10 DUCT-WIDTHxDEPTH
- 12x10Ø FLAT OVAL DUCT-WIDTHxDEPTH
- SUPPLY DUCT DOWN
- SUPPLY DUCT UP
- RETURN/EXHAUST DUCT DOWN
- RETURN/EXHAUST DUCT UP
- ROUND DUCT DOWN
- ROUND DUCT UP
- ROUND DUCT DOWN TO A BELLMOUTH FITTING WITH A DAMPER
- UP/DN SLOPING IN DIRECTION OF AIR FLOW
- FLEXIBLE DUCT (MAX. 5'-0" LONG)
- SIDEWALL SUPPLY/RETURN GRILLES
- LOUVER
- MANUAL OPPOSED BLADE DAMPER
- M M OR MOTORIZED OPPOSED BLADE DAMPER
- H HUMIDISTAT
- T THERMOSTAT
- THERMOSTAT WITH LOCKING COVER
- T$_A$ ADJUSTABLE ROOM SENSOR
- T$_N$ NON-ADJUSTABLE ROOM SENSOR
- C CO2 SENSOR
- DAMPER (IF SHOWN) CONICAL/BELLMOUTH TEE
- DAMPER (IF SHOWN) HIGH EFFICIENCY TAKE-OFF
- 45° DEG.° LATERAL
- DAMPER (IF SHOWN) 45 DEG.° ENTRY TAP
- FLEX CONNECTION IN DUCT
- MANUAL BUTTERFLY DAMPER W/ LOCKING QUADRANT
- RADIUS ELBOW R/D = 1.5
- ELBOW W/ TURNING VANES
- SQUARE TO SQUARE TRANSITION
- SQUARE TO ROUND TRANSITION — ROUND DUCT / RECTANGULAR DUCT
- S.D DUCT MOUNTED SMOKE DETECTOR

KEY NOTES

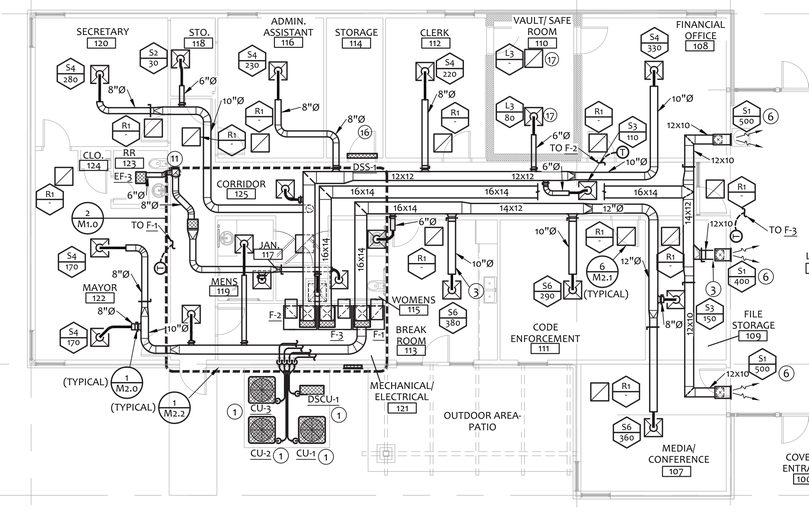
ALL KEYED NOTES MAY NOT APPEAR ON EVERY PLAN.

1. INSTALL CONDENSING UNIT ON 4" THICK CONCRETE PAD. MAINTAIN MANUFACTURERS RECOMMENDED SERVICE CLEARANCE.
2. FOR EACH FURNACE UNLESS OTHERWISE NOTED:
   INSTALL UNIT ON FABRICATED INSULATED PLENUM WITH STEEL FRAME. REFER TO DETAIL.
   INSULATE AND SIZE CONDENSATE PER MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE NOTED. SUPPORT CONDENSATE PIPING PER DETAIL. ROUTE CONDENSATE TO HUB DRAIN IN MECHANICAL CLOSET. PROVIDE 2" GAP AT HUB DRAIN. REFER TO PLUMBING PLANS FOR HUB DRAIN AND UNDERSLAB PIPING TO CONDENSATE DRAIN PIT.
   ROUTE REFRIGERANT LINE SET TO ASSOCIATED CONDENSING UNIT. SUPPORT REFRIGERANT PIPING PER DETAILS. SIZE AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
   SIZE AND INSTALL COMBUSTION AIR AND FLUE PER MANUFACTURERS DIRECTION. TERMINATE WITH CONCENTRIC VENT THROUGH THE ROOF.
3. ROUTE DUCTWORK IN TRUSS, COORDINATE WITH STRUCTURAL.
4. 24"x16" INSULATED PLENUM.
5. 10"x10" EXHAUST DUCT UP TO GH-1 ON THE ROOF.
6. COORDINATE MOUNTING HEIGHT (12' ABOVE FINISH FLOOR) WITH ARCHITECT.
7. INTERNALLY LINED PLENUM ON BACK OF AIR DEVICE.
8. NOT USED
9. NOT USED
10. NOT USED
11. 10"x10" EXHAUST DUCT UP TO GH-2 ON THE ROOF.
12. ROUTE DUCTWORK BETWEEN JOISTS AND TIGHT TO DECK, WHEN POSSIBLE, UNLESS OTHERWISE INDICATED.
13. PROVIDE EZ BOWDEN CABLE CONTROL SYSTEM FOR BALANCING DAMPERS THAT ARE ABOVE HARD CEILINGS OR ARE NOT EASILY ACCESSIBLE. REFER TO DETAIL SHEET. COORDINATE LOCATION OF CONTROL SYSTEMS WITH ARCHITECT.
14. 16x24 RETURN AIR . 16X18 RA DOWN TO F-1 RA PLENUM.
15. 16X20 RETURN AIR. 16X16 RA DOWN TO F-3 RA PLENUM.
16. 16X20 RETURN AIR. 16X16 RA DOWN TO F-2 RA PLENUM.
16. DUCTLESS SPLIT SYSTEM MOUNTED ABOVE DOOR. ROUTE INSULATED CONDENSATE DRAIN LINE (ABOVE CEILING AND IN WALL) TO MOP SINK OF JAN. 117. TERMINATE WITH 90° ELBOW DOWN AT 2" ABOVE MOP SINK RIM.
17. LOUVER L-3 (FEMA 361 RATED GRILLE) TO BE INSTALLED IN VAULT CEILING. COORDINATE WITH STRUCTURAL.



1 MECHANICAL PLAN

0 1' 2' 4' 8' 12'



2 ENLARGED MECHANICAL PLAN

NOT TO SCALE

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 15268 — Braden S. Cox — DATE 11/07/2016

HILL NORTHCROSS — CERTIFICATE OF AUTHORIZATION — ghn architectsengineers — COA 1078 — ARCHITECTURE — ENGINEERING

ETC ENGINEERS & ARCHITECTS, INC.
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FORREST CITY NEW CITY HALL

FORREST CITY, AR

ISSUE / DATE NOVEMBER 7, 2016

DATE 11/07/2016

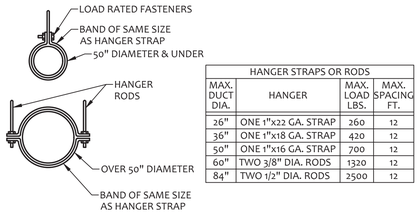
PROJECT NO. 16548.00

PROJECT PHASE: Construction Documents

DRAWN BY: BMB — CHECKED BY: BSC

MECHANICAL PLAN

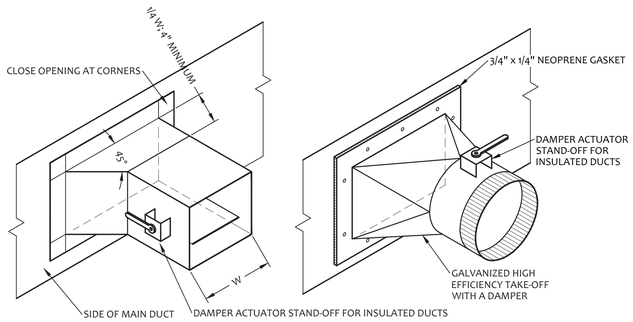
M1.0



HANGER STRAPS OR RODS			
MAX. DUCT DIA.	HANGER	MAX. LOAD LBS.	MAX. SPACING FT.
26"	ONE 1"x22 GA. STRAP	260	12
36"	ONE 1"x18 GA. STRAP	420	12
50"	ONE 1"x16 GA. STRAP	700	12
60"	TWO 3/8" DIA. RODS	1320	12
84"	TWO 1/2" DIA. RODS	2500	12

NOTES:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION BUT NO EXTERNAL LOAD.

2 ROUND DUCT HANGER DETAIL
NOT TO SCALE



NOTE: REFER TO THE PLANS FOR BRANCH DUCT SIZES.

1 BRANCH DUCT DETAIL
NOT TO SCALE

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	COOLING TOTAL CAPACITY MBH	COOLING OUTSIDE AIR TEMP. °F	REFRIG.	SEER /EER RATING	HEATING (HEAT PUMP ONLY) TOTAL CAPACITY MBH	HEATING OUTSIDE AIR TEMP. °F	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	REMARKS
CU-1	DAIKIN	DX16TC0481A	F-1	46.5	100.0	410A	16.0	-	-	240/1	27.7	45	AT,CH,HK,LD,LH	1,2
CU-2	DAIKIN	DX16TC0481A	F-2	42.3	100.0	410A	16.0	-	-	240/1	27.7	45	AT,CH,HK,LD,LH	1,2
CU-3	DAIKIN	DX16TC0481A	F-3	42.3	100.0	410A	16.0	-	-	240/1	27.7	45	AT,CH,HK,LD,LH	1,2
CU-4	DAIKIN	DX16TC0601A	F-4	55.1	100.0	410A	16.0	-	-	240/1	37.2	60	AT,CH,HK,LD,LH	1,2

ACCESSORIES:

AT - ANTI-SHORT CYCLE TIMER
CH - CRANKCASE HEATER
HK - HARD START KIT
LD - LIQUID LINE FILTER DRYER
LH - LOW AND HIGH-PRESSURE SWITCHES

REMARKS:

1. BASED UPON A.R.I. TESTING STANDARDS.
2. LOW-AMBIENT COOLING TO 0°F.

EXHAUST FAN SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	CFM	EXTERNAL STATIC PRESS. IN. OF W.C.	MOTOR BHP	MOTOR MHP	FAN RPM	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	REMARKS
EF-1	CEILING MOUNTED CENTRIFUGAL	COOK	GC-148	70	0.25	-	30W	731	120/1	-	-	D,FS,DC,HK,AG	1
EF-2	CEILING MOUNTED CENTRIFUGAL	COOK	GC-148	70	0.25	-	30W	731	120/1	-	-	D,FS,DC,HK,AG	1
EF-3	CEILING MOUNTED CENTRIFUGAL	COOK	GC-146	50	0.25	-	24W	670	120/1	-	-	D,FS,DC,HK,AG	1
EF-4	INLINE CENTRIFUGAL	COOK	GC-186	150	0.25	-	63W	820	120/1	-	-	D,FS,DC,HK	2

ACCESSORIES:

AG - WHITE ALUMINUM CEILING GRILLE
D - INTEGRAL ELECTRICAL DISCONNECT
DC - ROUND DUCT CONNECTOR
FS - FAN SPEED CONTROLLER
HK - RUBBER-IN-SHEAR VIBRATION ISOLATED HANGERS

REMARKS:

1. INTERLOCK WITH LIGHT SWITCH OF SPACE SERVED (REFER TO THE SEQUENCE OF OPERATION).
2. FAN CONTROLLED WITH CORRIDOR LIGHTING.

LOUVER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	AIR FLOW CFM	WIDTH INCHES	HEIGHT INCHES	FREE AREA SQ. FT.	MAXIMUM VELOCITY FPM	STATIC PRESSURE IN. OF H_2O	FINISH	ACCESSORIES	REMARKS
L-1	SERVES F-4	RUSKIN	ELF375DX	350	24	16	1.08	500	0.04	-	B	1,2
L-2	SERVES F-1,F-2,F-3	RUSKIN	ELF375DX	450	24	16	1.08	500	0.04	-	B	1,2
L-3	SERVES VAULT	RUSKIN	XP500	100	12	12	0.38	500	0.03	-	-	1,3
GH-1	EXHAUST	COOK	PR-8	140	8"Ø	-	0.39	500	0.05	-	B,R	1,2
GH-2	EXHAUST	COOK	PR-8	200	8"Ø	-	0.39	500	0.05	-	B,R	1,2

ACCESSORIES:

B - BIRD SCREEN
R - ROOF CURB

REMARKS:

1. COLOR AND FINISH PER ARCHITECT.
2. COORDINATE EXACT LOCATION WITH ARCHITECT.
3. FEMA 361 GRILLE.

AIR DISTRIBUTION DEVICES SCHEDULE

MARK / CFM

MARK	MANUFACTURER	MODEL	TYPE [1]	MAX AIR FLOW CFM	EXT. STATIC PRESSURE IN. OF H_2O	THROW FEET [2]	NECK SIZE INCHES	PANEL SIZE INCHES	MAX NOISE CRITERIA	FINISH	ACCESSORIES	REMARKS
S1	KRUEGER	5880	WALL	500	0.0	32	16x10	18x12	20	WHITE	OBD	-
S2	KRUEGER	5SHR-04	LAY-IN	150	0.09	11	6"Ø	12x12	20	WHITE	-	-
S3	KRUEGER	5SHR-04	LAY-IN	150	0.09	11	6"Ø	24x24	20	WHITE	-	-
S4	KRUEGER	5SHR-04	LAY-IN	275	0.09	15	8"Ø	24x24	20	WHITE	-	-
S5	KRUEGER	5SHR-04	LAY-IN	275	0.09	15	8"Ø	24x24	20	WHITE	OBD	-
S6	KRUEGER	5SHR-04	LAY-IN	420	0.09	19	10"Ø	24x24	22	WHITE	-	-
S7	KRUEGER	5SHR-04	LAY-IN	650	0.09	23	12"Ø	24x24	22	WHITE	-	-
R1	KRUEGER	EG5	LAY-IN	1900	0.05	-	-	24x24	30	WHITE	FR,SR	-
E1	KRUEGER	EG5	LAY-IN	500	0.05	-	10x10	12x12	25	WHITE	FR,SR	-

ACCESSORIES:

FR - LAY-IN FRAME
OBD - OPPOSED BLADE (NECK) DAMPER
SR - SQUARE TO ROUND ADAPTER

REMARKS/NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES AND MOUNTING REQUIRED.
2. AT TERMINAL VELOCITY = 50FPM

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	AIR FLOW CFM (H/M/L)	OUTSIDE AIR FLOW CFM	COOLING SENSIBLE CAPACITY MBH	COOLING TOTAL CAPACITY MBH	HEATING HEAT PUMP OA TEMP.	HEATING HEAT PUMP OUTPUT MBH	WEIGHT LBS.	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	REMARKS
DSS-1	SERVES STORAGE 114	DAIKIN	FTKN09KEVJU	325	-	9.0	9.0	-	-	25	230/1	1	1	LC, LT	1,2,3

ACCESSORIES:

LC - LOW-AMBIENT CONTROLS
LT - LOW-VOLTAGE, WALL MOUNTED THERMOSTAT

REMARKS:

1. COOLING ONLY UNIT
2. WALL MOUNTED UNIT
3. SINGLE UNIT SPLIT SYSTEM SERVED BY SINGLE CONDENSING UNIT.

DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SYSTEM TYPE	INDOOR UNITS	REFRIG.	COOLING TOTAL CAPACITY MBH	COOLING OUTSIDE AIR TEMP. °F	COOLING SEER /EER RATING	HEATING OUTPUT MBH	HEATING HSPF	HEATING OUTSIDE AIR TEMP. °F	WEIGHT LBS.	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	REMARKS
DSCU-1	DAIKIN	RKL09KEVJU	COOLING	DSS-1	410A	9	95	18	9	-	-	70	230/1	4.3	15	D, LD	1,2

ACCESSORIES:

D - DISCONNECT SWITCH
LD - LIQUID LINE FILTER DRYER

REMARKS:

1. OUTDOOR UNIT PROVIDES POWER TO INDOOR UNIT.
2. LOW AMBIENT COOLING.

SPLIT SYSTEM GAS FURNACE SCHEDULE

MARK	MANUFACTURER	MODEL	EVAPORATOR COIL MODEL	AIR FLOW CFM	OUTSIDE AIR FLOW CFM	EXT. STATIC PRESSURE IN. OF H_2O	COOLING SENSIBLE CAPACITY MBH	COOLING TOTAL CAPACITY MBH	COOLING AIR TEMP. EDB/EWB °F	COOLING AIR TEMP. LDB/LWB °F	COOLING SEER /EER RATING	COOLING OUTSIDE AMBIENT TEMP. °F	HEATING GAS INPUT MBH	HEATING OUTPUT MBH	HEATING AIR TEMP. E.A.T.	HEATING AIR TEMP. L.A.T.	FAN MOTOR BHP	FAN MOTOR MHP	FAN RPM	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	REMARKS
F-1	DAIKIN	DM97MC1005CNA	CAPF	1700	160	0.75	35.8	46.5	80.0	67.0	16.0	100	100	97	60	112	-	1	-	120/1	15.4	20	1,2,3,4,5	1,2,3,4
F-2	DAIKIN	DM97MC0804CNA	CAPF	1400	140	0.75	30.6	42.3	80.0	67.0	16.0	100	80	78	60	110	-	3/4	-	120/1	11.6	15	1,2,3,4,5	1,2,3,4
F-3	DAIKIN	DM97MC0804CNA	CAPF	1400	100	0.75	30.6	42.3	80.0	67.0	16.0	100	80	78	60	110	-	3/4	-	120/1	11.6	15	1,2,3,4,5	1,2,3,4
F-4	DAIKIN	DM97MC1005CNA	CAPF	1900	350/100	0.5	40.8	55.1	80.0	67.0	16.0	100	100	97	60	107	-	1	-	120/1	15.4	20	1,2,3,4,5,6	1,2,3,4

ACCESSORIES:

1. TXV VALVE
2. DISCONNECT SWITCH
3. CONCENTRIC VENT KIT
4. FILTER RACK KIT
5. DIGITAL DISPLAY, 7- DAY PROGRAMMABLE, AUTO CHANGEOVER THERMOSTAT
6. SPACE CARBON DIOXIDE SENSOR

REMARKS:

1. FURNACE HEATING CAPACITY IS SELECTED ON THE HIGH FIRE INPUT/OUTPUT.
2. COOLING CAPACITY BASED ON HIGH STAGE AND AMBIENT OF 100°F.
3. FURNACE FEATURES INCLUDE: MAX CFM @2000, MODULATING GAS VALVE, 21" CABINET, VARIABLE SPEED ECM MOTOR.
4. RISE RANGE ON SIZE 100 IS FROM 35°F-65°F.

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Braden S. Cox
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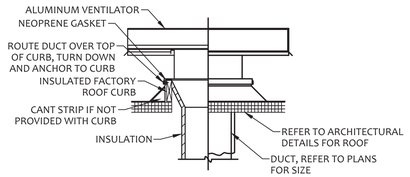
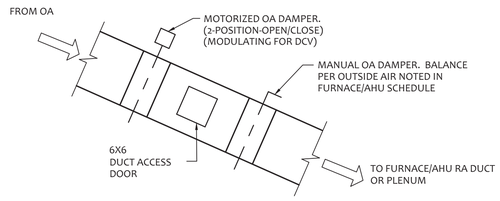
MECHANICAL SCHEDULES AND DETAILS

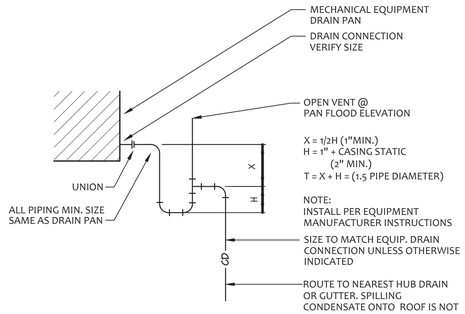
M2.0



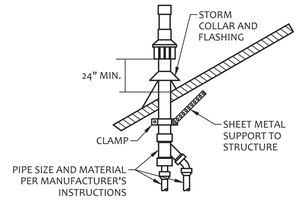
12 ROOFTOP VENTILATOR
NOT TO SCALE



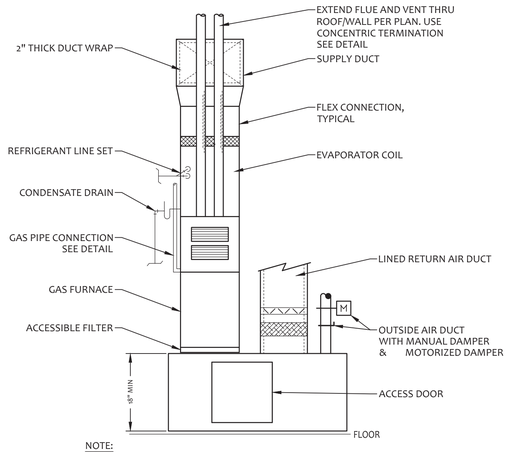
10 TYPICAL OUTSIDE AIR DUCT
NOT TO SCALE



7 CONDENSATE DRAIN CONNECTION
NOT TO SCALE



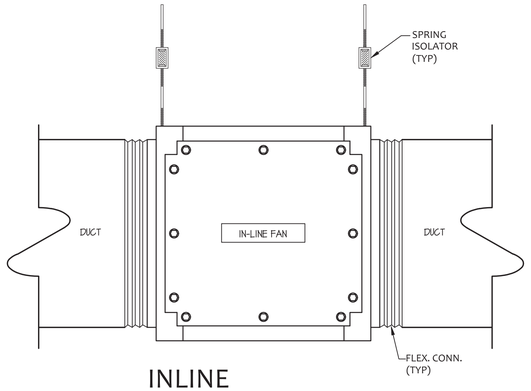
3 CONCENTRIC ROOF FLUE TERMINATION
NOT TO SCALE



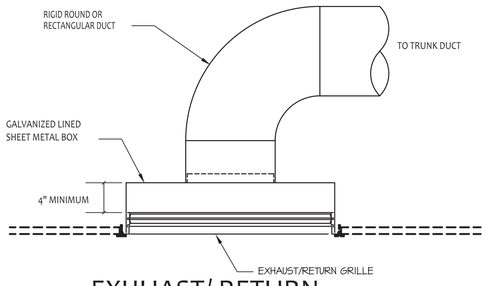
NOTE:

1. RETURN AIR PLENUMS ARE TO BE FABRICATED USING A1.5" X 1.5" X 3/16" WELDED STEEL ANGLE IRON STRUCTURAL FRAME.ALL SIX SIDES OF THE FRAME TO BE COVERED WITH GALVANIZED SHEETMETAL.POSITION A SHEET METAL NOISE BAFFLE IN PLENUMS, WHERE REQUIRED, FOR NOISE CONTROL. APPLY 1" THICK DUCTWORK LINER TO PLENUM FLOOR, ALL PLENUM INTERIOR SURFACES AND ON THE FURNACE SIDE OF THE NOISE BAFFLE.

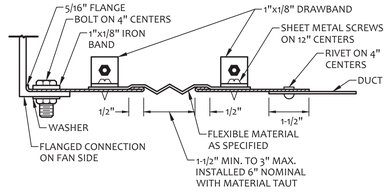
11 SINGLE FURNACE CONNECTION DETAIL
NOT TO SCALE



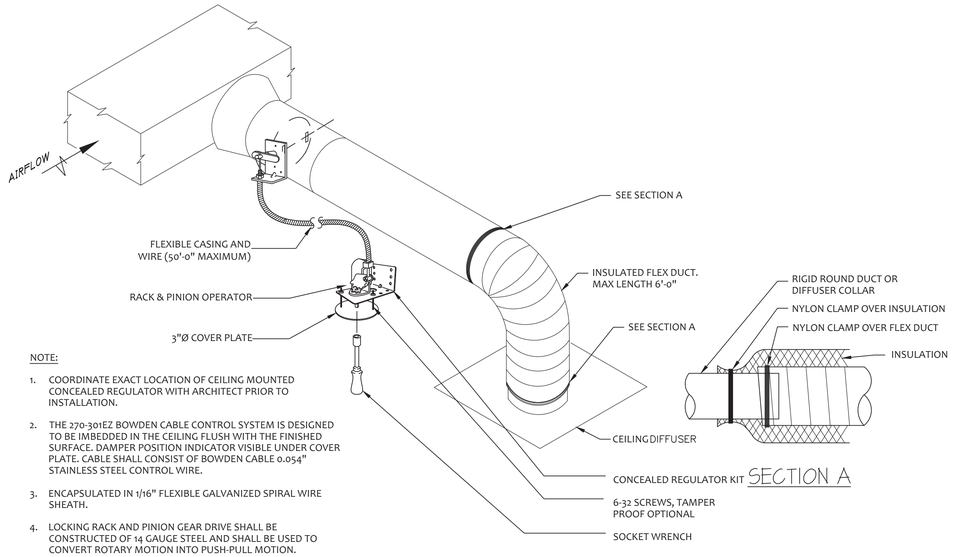
9 INLINE EXHUAST FAN DETAIL
NOT TO SCALE



6 EXHAUST/ RETURN GRILLE DUCT CONNECTION
NOT TO SCALE



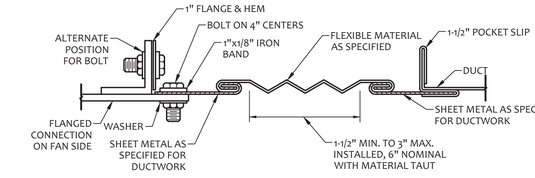
2 ROUND FLEXIBLE CONNECTION
NOT TO SCALE



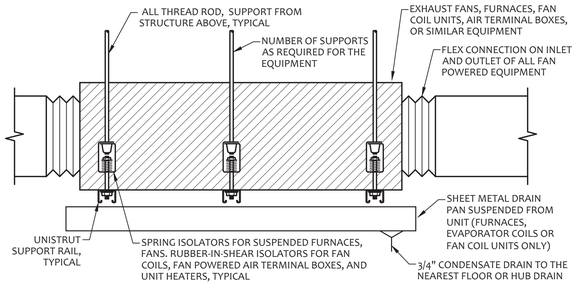
NOTE:

1. COORDINATE EXACT LOCATION OF CEILING MOUNTED CONCEALED REGULATOR WITH ARCHITECT PRIOR TO INSTALLATION.
2. THE 270-301EZ BOWDEN CABLE CONTROL SYSTEM IS DESIGNED TO BE IMBEDDED IN THE CEILING FLUSH WITH THE FINISHED SURFACE. DAMPER POSITION INDICATOR VISIBLE UNDER COVER PLATE. CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE.
3. ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
4. LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
5. CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

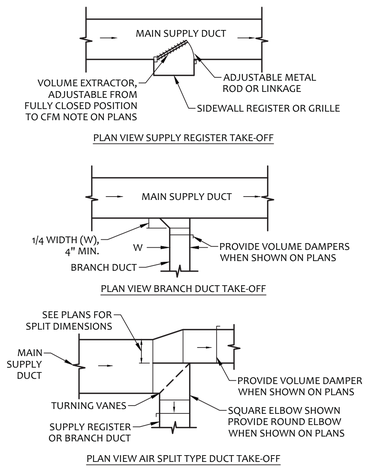
8 270-301 EZ BOWDEN CABLE CONTROL SYSTEM
NOT TO SCALE



5 RECTANGULAR FLEXIBLE CONNECTION
NOT TO SCALE



4 MECHANICAL EQUIPMENT SUPPORT
NOT TO SCALE



1 SUPPLY DUCT TAKE-OFFS
NOT TO SCALE

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ghn architects/engineers COA 1078

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MECHANICAL SCHEDULES AND DETAILS

M2.1

HVAC EQUIPMENT CONTROL SEQUENCE

ALL KEYED NOTES MAY NOT APPEAR ON EVERY PLAN.

F/CU-1 THRU 4 (SPLIT SYSTEMS WITH NATURAL GAS HEAT)

THE OCCUPIED MODE SHALL BE INITIATED ACCORDING TO THE OWNER DEFINED TIME SCHEDULE.

OCCUPIED:
THE SUPPLY FAN SHALL RUN CONTINUOUSLY IN THE OCCUPIED MODE. THE SPACE THERMOSTAT SHALL CYCLE MECHANICAL COOLING TO MAINTAIN THE OCCUPIED COOLING SET POINT (75°F ADJ.) WHEN SPACE TEMPERATURE IS SATISFIED, THE CONDENSING UNIT IS DE-ENERGIZED. WHEN THE SPACE THERMOSTAT CALLS FOR HEATING, THE HEATING CYCLES ON. AS SPACE TEMPERATURE APPROACHES THE OCCUPIED HEATING SET POINT, THE BURNER CYCLES OFF. THE OUTSIDE AIR DAMPER SHALL BE INTERLOCKED WITH THE SUPPLY FAN TO OPEN TO MINIMUM POSITION WHEN SUPPLY FAN IS ENERGIZED.

(DEMAND CONTROL VENTILATION) THE OUTSIDE AIR DAMPER SHALL BE SET TO THE MINIMUM POSITION (AS SCHEDULED). WHEN CO2 LEVELS IN THE SPACE EXCEED 1,000PPM (ADJ) SETPOINT (AS MEASURED BY A SENSOR LOCATED IN THE SPACE), THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN TO A MAXIMUM POSITION AS SCHEDULED WHEN CO2 LEVELS ARE SATISFIED, THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.

UNOCCUPIED:
THE SPACE THERMOSTAT SHALL CYCLE MECHANICAL COOLING OR HEATING TO MAINTAIN THE UNOCCUPIED TEMPERATURE SET POINT (ADJ.) OUTSIDE AIR DAMPER SHALL BE CLOSED, A SPACE OVERRIDE TIMER (3 HOURS) LOCATED AT THE THERMOSTAT SHALL START/STOP THE SYSTEM ACCORDING TO ITS NORMAL OCCUPIED MODE SEQUENCE.

*THE SYSTEM SHALL SHUT DOWN UPON DETECTION OF SMOKE BY SMOKE DETECTORS LOCATED IN THE SUPPLY AND RETURN AIRSTREAMS (FOR UNITS AS INDICATED ON THE GAS FURNACE SCHEDULE AND/ OR PLANS) OR FIRE ALARM SYSTEM.

DSS-1 / DSCU-1 (DUCTLESS SPLIT SYSTEM - STO 114):

COMPLY WITH THE MANUFACTURERS STANDARD CONTROL SEQUENCE. SET THERMOSTAT TO MAINTAIN 68°F (ADJ.) IN SPACE.

EF-1, EF-2, EF-3 (GENERAL EXHAUST- RESTROOMS - 103, 105, 123):

EXHAUST FAN SHALL BE STARTED/STOP BY WALL MOUNTED SWITCH INTERLOCKED WITH LIGHTING IN RESTROOM. REFER TO ELECTRICAL PLANS.

EF-4 (GENERAL EXHAUST - RESTROOMS - 115, 119, JAN 117):

EXHAUST FAN EF-4 SHALL BE INTERLOCKED WITH LIGHT SWITCHES IN THE FOLLOWING ROOMS: RESTROOM 115, RESTROOM 119, JANITOR 117. WHEN LIGHT SWITCH IS ON IN ANY OF THE LISTED ROOMS, THE FAN SHALL ENERGIZE. WHEN LIGHT SWITCHES ARE OFF IN ALL ROOMS LISTED THE FAN SHALL DE-ENERGIZE.

MECHANICAL GENERAL NOTES

A. COMPLY WITH LOCAL, STATE (2010 EDITION OF ARKANSAS MECHANICAL CODE AND 2011 EDITION OF ARKANSAS ENERGY CONSERVATION CODE) AND NATIONAL CODES.

B. COORDINATE WORK WITH THE WORK OF ALL TRADES ON THE PROJECT.

C. FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BIDDING.

D. 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. DO NOT SCALE THE 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. 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 ADDITIONAL INFORMATION.

E. THE 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 CONTRACTOR(S) 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.

F. 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.

G. PROVIDE REQUIRED MODIFICATIONS TO THE NEW AND EXISTING SYSTEMS TO FACILITATE THE INSTALLATION OF THE NEW SYSTEMS AND FOR THE PROPER OPERATION OF ALL SYSTEMS.

H. ALL DUCT DIMENSIONS REPRESENT INTERIOR FREE DIMENSIONS, ADJUST DUCT CONSTRUCTION FOR THE INSULATION SPECIFIED, REFER TO THE SPECIFICATIONS.

I. LOW PRESSURE FLEXIBLE DUCT SHALL HAVE A MAXIMUM LENGTH OF 5'-0", BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS. ELBOWS SHALL HAVE AN R/D NOT LESS THAN 1.0.

J. LOW PRESSURE DUCT FITTINGS: BRANCH SUPPLY DUCT TO CEILING SUPPLY DIFFUSERS TO BE HIGH EFFICIENCY TAP WITH A DAMPER OR BELLMOUTH FITTING WITH A DAMPER. ALL 90 DEGREE ROUND ELBOWS SHALL HAVE A R/D = 1.5. ALL 90 DEGREE RECTANGULAR ELBOWS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED.

K. CLOSELY COORDINATE THE LOCATION OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES.

L. REFER TO ARCHITECTURAL PLANS FOR CEILING GRILLE LOCATIONS AND CEILING TYPE.

M. SEAL ALL DUCT JOINTS WITH LIQUID SEALER. DUCT TAPE IS NOT ACCEPTABLE.

N. PROVIDE DUCT ACCESS DOORS AT EACH FIRE/SMOKE DAMPER, FIRE DAMPER, CONTROL DAMPER AND UPSTREAM AND DOWNSTREAM OF EACH AIR MEASURING STATION AND EACH DUCT MOUNTED COIL. THE SIZE OF THE DOORS SHALL BE ADEQUATE FOR INSPECTION AND MAINTENANCE OF DUCT MOUNTED EQUIPMENT.

O. PROVIDE A LINTEL AT ALL NEW OPENINGS (EXCEEDING 12" WIDE) IN NEW OR EXISTING WALLS.

P. INSULATE AND SECURE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH 1" THICK FIBERGLASS DUCT WRAP.

Q. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS, AS REQUIRED, TO CLEAR STRUCTURAL MEMBERS.

R. PROVIDE A SLEEVE, FOR ALL PIPE AND DUCTS, THROUGH FIRE RATED PARTITIONS AND SLABS AND SEAL WITH FIRE RATED SEALANT.

S. PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH THE SURROUNDING SURFACE FOR ALL OPENINGS CREATED BY DEMOLITION WORK. REPLACE AND/OR PATCH TO MATCH THE EXISTING SURFACE ANY PIPE AND/OR DUCT INSULATION THAT SHALL REMAIN AND IS DAMAGED OR REMOVED DURING CONSTRUCTION.

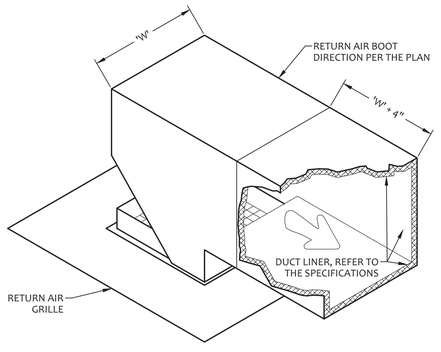
T. ACCESS PANELS IN HARD CEILINGS SHALL BE A MINIMUM OF 3'-0" X 2'-0" FOR EACH TERMINAL AIR BOX AND A MINIMUM OF 24" X 24" FOR BALANCING DAMPERS, HUMIDIFIERS, VALVES, TRAPS, CLEAN OUTS, CONTROLS, FIRE DAMPERS, ETC.

U. REFER TO THE ARCHITECTURAL PLANS FOR THE LOCATION OF FIRE AND SMOKE PARTITIONS.

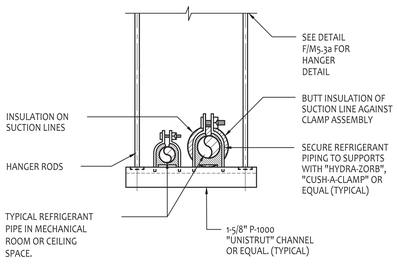
V. ALL DUCTS PASSING THROUGH FIRE RATED MEMBRANE SHALL BE INSTALLED WITH FIRE DAMPER OR SHALL BE PROTECTED AS REQUIRED BY THE GOVERNING CODE.

W. REFER TO THE ARCHITECTURAL PLANS FOR WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS.

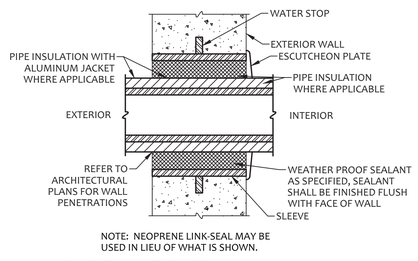
X. A DUCT-MOUNTED PHOT-ELECTRONIC SMOKE DETECTOR SHALL BE MOUNTED IN THE SUPPLY AND RETURN DUCTS OF FURNACES, WHERE INDICATED ON THE MECHANICAL PLANS, BEFORE THE FIRST TAKE OFF. PROVIDE ACCESS DOOR AT EACH SMOKE DETECTOR. UPON DETECTION OF SMOKE, THE SMOKE DETECTOR SHALL SHUT DOWN ITS ASSOCIATED AIR-HANDLING UNIT AND SHALL PROVIDE A SIGNAL TO THE BUILDINGS PROTECTIVE SIGNALING SYSTEM. SMOKE DETECTORS SERVING FURNACES SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND SHALL BE MOUNTED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR.



8 RETURN AIR BOOT DETAIL
NOT TO SCALE

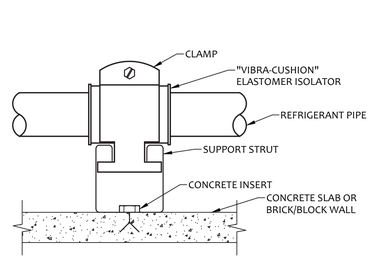


7 SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING
NOT TO SCALE



NOTE: NEOPRENE LINK-SEAL MAY BE USED IN LIEU OF WHAT IS SHOWN.

6 PIPE SLEEVE THROUGH EXTERIOR WALL
NOT TO SCALE



4 REFRIGERANT PIPE SUPPORT
NOT TO SCALE

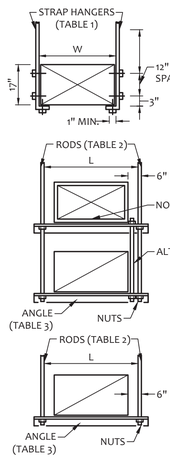


TABLE 1: STRAP HANGERS (PAIR) SPACED

W+D MAX.	10'-0" MAX.	8'-0" MAX.	5'-0" OR LESS
72"	1"X18 GA.	1"X20 GA.	1"X22 GA.
96"		1"X18 GA.	1"X20 GA.
120"		1"X16 GA.	1"X18 GA.
168"			1"X16 GA.
192"			1"X16 GA.
193"+	SPECIAL ANALYSIS REQUIRED		

TABLE 2: ALLOWABLE HANGER LOAD MAX.

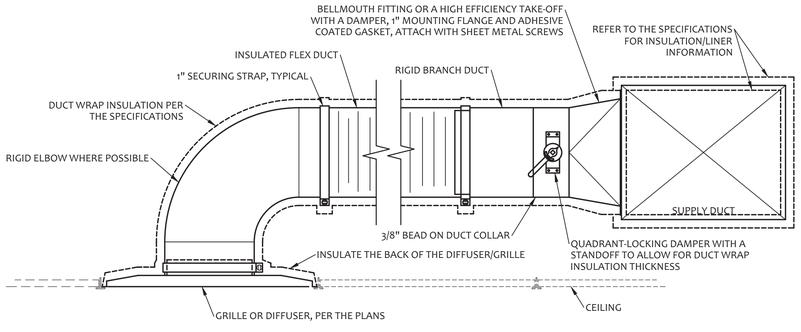
STRAPS	LBS.	RODS	LBS.
2 - 1"X22 GA.	520	2 - 1/4" DIA.	540
2 - 1"X20 GA.	640	2 - 3/8" DIA.	1360
2 - 1"X18 GA.	840	2 - 1/2" DIA.	2500
2 - 1"X16 GA.	1400	2 - 5/8" DIA.	4000
		2 - 3/4" DIA.	6000

TABLE 3: TRAPEZE ANGLE LOAD MAX.

L	2"x2"x1/4"	2-1/2"x2-1/2"x1/4"
36"	1200 LBS.	1940 LBS.
48"	1160 LBS.	1900 LBS.
60"	1060 LBS.	1800 LBS.
72"	900 LBS.	1640 LBS.
84"	660 LBS.	1400 LBS.
96"	320 LBS.	1060 LBS.

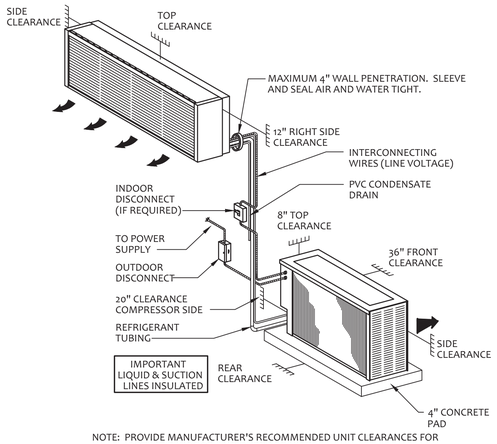
NOTES:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
2. PROVIDE HIGH DENSITY INSERT AT TRAPEZE FOR INSULATED DUCTS.

2 RECTANGULAR DUCT HANGER DETAIL
NOT TO SCALE



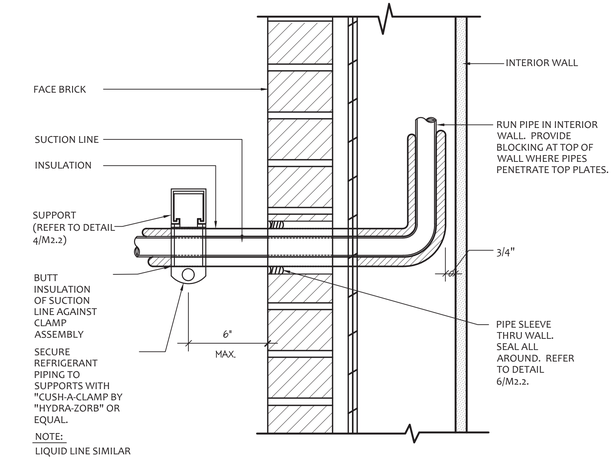
NOTES:
1. FLEX DUCT SHALL BE ROUTED AS STRAIGHT AS POSSIBLE AND CUT TO THE MINIMUM LENGTH. SWEEPING BENDS TO ACCOMMODATE EXCESS LENGTH IS NOT ALLOWED.
2. HANGING STRAPS OMITTED FROM DETAIL FOR CLARITY ONLY. PROVIDE HANGERS AS REQUIRED BY SPECIFICATIONS.

5 BRANCH DUCT DETAIL
NOT TO SCALE



NOTE: PROVIDE MANUFACTURER'S RECOMMENDED UNIT CLEARANCES FOR BOTH THE INDOOR AND OUTDOOR UNIT.

3 DUCTLESS SPLIT SYSTEM DETAIL
NOT TO SCALE



NOTE:
LIQUID LINE SIMILAR

1 REFRIGERANT PIPE SUPPORT AT WALL
NOT TO SCALE

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FORREST CITY NEW CITY HALL
FORREST CITY, AR

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DATE 11/07/2016
PROJECT NO. 16548.00
PROJECT PHASE Construction Documents
DRAWN BY: BMB CHECKED BY: BSC

MECHANICAL SCHEDULES AND DETAILS

M2.2

ELECTRICAL SYMBOLS LEGEND

NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN

Symbol	Description
A a	LAY-IN FLUORESCENT LIGHT FIXTURE A=FIXTURE TYPE a=SWITCH LABEL (IF USED)
A	FIXTURE ON EMERGENCY POWER (PART OR ALL)
A	LINEAR FIXTURE
A OR A OR A	LIGHT FIXTURE
A X	WALL MOUNTED LIGHT FIXTURE
	EXIT LIGHT (CEILING MOUNTED)
X	EXIT LIGHT (WALL MOUNTED)
EM	EMERGENCY ILLUMINATION LIGHT FIXTURE (WALL MOUNTED)
EM	EMERGENCY ILLUMINATION LIGHT FIXTURE (CEILING MOUNTED)
$	SINGLE POLE SWITCH
$2	DOUBLE POLE SWITCH
$3	3-WAY SWITCH
$3D	3-WAY DIMMER SWITCH
$4	4-WAY SWITCH
$D	DIMMER SWITCH
$K	KEY-OPERATED SWITCH
$3K	3-WAY KEY-OPERATED SWITCH
$C	INTERCOM CALL SWITCH
$M	MANUAL MOTOR STARTER
$P	SWITCH W/ PILOT LAMP
$RL	RAISE-LOWER SWITCH
$T	TIMER SWITCH
$OS	WALL MOUNTED OCCUPANCY SWITCH
$3M	3 POSITION MOMENTARY CONTACT SWITCH
$3MK	KEY OPERATED 3 POSITION MOMENTARY CONTACT SWITCH
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRA-PLEX RECEPTACLE
AC	DUPLEX INSTALLED ABOVE COUNTER
GFI	DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION
EM	RECEPTACLE ON EMERGENCY POWER (RED DEVICE)
WP	RECEPTACLE w/WEATHERPROOF IN-USE COVER
( )	SPECIAL OUTLET (NEMA CONFIGURATION)
	FLOOR MOUNTED RECEPTACLE
	CEILING MOUNTED RECEPTACLE
OS a	CEILING MOUNTED OCCUPANCY SENSOR (a = TYPE)
OCC a	WALL MOUNTED OCCUPANCY SENSOR (a = TYPE)
DS a	CEILING MOUNTED DAYLIGHT SENSOR (a = TYPE)
	SECURITY CAMERA
J OR J	JUNCTION BOX
PP	UTILITY POWER POLE
PP	INTERIOR POWER/DATA POLE
HP PH	MOTOR CONNECTION (NO. DENOTES PHASE)
( )	NON-FUSED DISCONNECT SWITCH (RATING)
( ) MS-?	FUSED DISCONNECT SWITCH (SWITCH/FUSE RATINGS)
	MOTOR STARTER
	TELEPHONE/DATA OUTLET
	FLOOR BOX WITH TELEPHONE/DATA OUTLET
	CEILING MOUNTED DATA OUTLET
PC	PHOTOCELL, REFER TO THE SPECIFICATIONS
TS	TIMESWITCH, REFER TO THE SPECIFICATIONS
LC	LIGHTING CONTACTOR, REFER TO THE SPECIFICATIONS
P a	WALL MOUNTED SPEAKER (a = MOUNTING HEIGHT)
P	CEILING SPEAKER
K	KEYPAD CONTROL LOCATION
O	PUSH BUTTON
	BUZZER/CHIME
WF	WIFI ACCESS POINT
	WEATHERHEAD
	TRANSFORMER
? ? SURFACE FLUSH	PANELBOARDS
	DISTRIBUTION BOARD
	CONDUIT CONCEALED
	CONDUIT BELOW THE SLAB
	CONDUIT/CIRCUIT HOMERUN
E	EMERGENCY CIRCUITRY
AFF	ABOVE FINISH FLOOR
GFI	GROUND FAULT INTERRUPTING
NF	NON-FUSIBLE
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF DEVICE OR COVER
TS	TIMER SWITCH
NS	NON-SWITCHED
NL	NIGHT LIGHT FIXTURE (NON-SWITCHED)

ELECTRICAL GENERAL NOTES

A. WORK SHALL COMPLY WITH THE N.E.C. AND ALL LOCAL, STATE AND NATIONAL CODES.

B. COORDINATE WORK WITH THE WORK OF ALL TRADES ON THE PROJECT.

C. FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BIDDING.

D. 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. DO 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. 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 ADDITIONAL INFORMATION.

E. THE 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 CONTRACTOR(S) 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.

F. 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.

G. LIGHT FIXTURES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE, PROVIDE NEW LAMPS IN ALL FIXTURES AT THE END OF CONSTRUCTION PRIOR TO SUBSTANTIAL COMPLETION.

H. RECEPTACLES INDICATED AS "EMERGENCY" SHALL BE RED IN COLOR AND CIRCUITED TO THE EMERGENCY POWER SOURCE AS INDICATED VIA A DEDICATED RACEWAY.

I. SINGLE PHASE BRANCH CIRCUITS SHALL NOT SHARE NEUTRALS.

J. PROVIDE THE DATA CONDUITS AND BOXES AS SHOWN, THE DATA CABLING SHALL BE FURNISHED AND INSTALLED BY THE OWNER, UNLESS NOTED OTHERWISE.

K. FIELD VERIFY THE ROUGH-IN DIMENSIONS OF ALL FLOOR BOXES, DATA OUTLETS, TV OUTLETS AND TV RECEPTACLES PRIOR TO ANY INSTALLATION. ANY CHANGE OF LOCATION OF A BOX THAT WAS NOT VERIFIED WITH THE OWNER PRIOR TO INSTALLATION SHALL BE RELOCATED, TO THE OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.

L. PROVIDE THE REQUIRED POWER FOR ALL MECHANICAL OR PLUMBING EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS, EVEN IF NOT SHOWN ON THE POWER PLANS.

M. VERIFY THE POWER REQUIREMENTS OF MECHANICAL AND PLUMBING EQUIPMENT, WITH THE EQUIPMENT SUPPLIERS, PRIOR TO PREPARING SUBMITTALS OR ORDERING ANY SWITCHGEAR OR EQUIPMENT. SUPPLIED PLUMBING AND/OR MECHANICAL EQUIPMENT MAY VARY FROM THE EQUIPMENT SPECIFIED IN THE PLANS.

N. ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE, WHERE CONDITIONS REQUIRE EXPOSED ROUTING, ROUTE CONDUITS IN A NEAT MANNER PARALLEL WITH THE BUILDING LINES AND AS HIGH AS POSSIBLE.

O. PROVIDE A GROUNDING CONDUCTOR IN RACEWAYS, SIZED PER THE N.E.C.

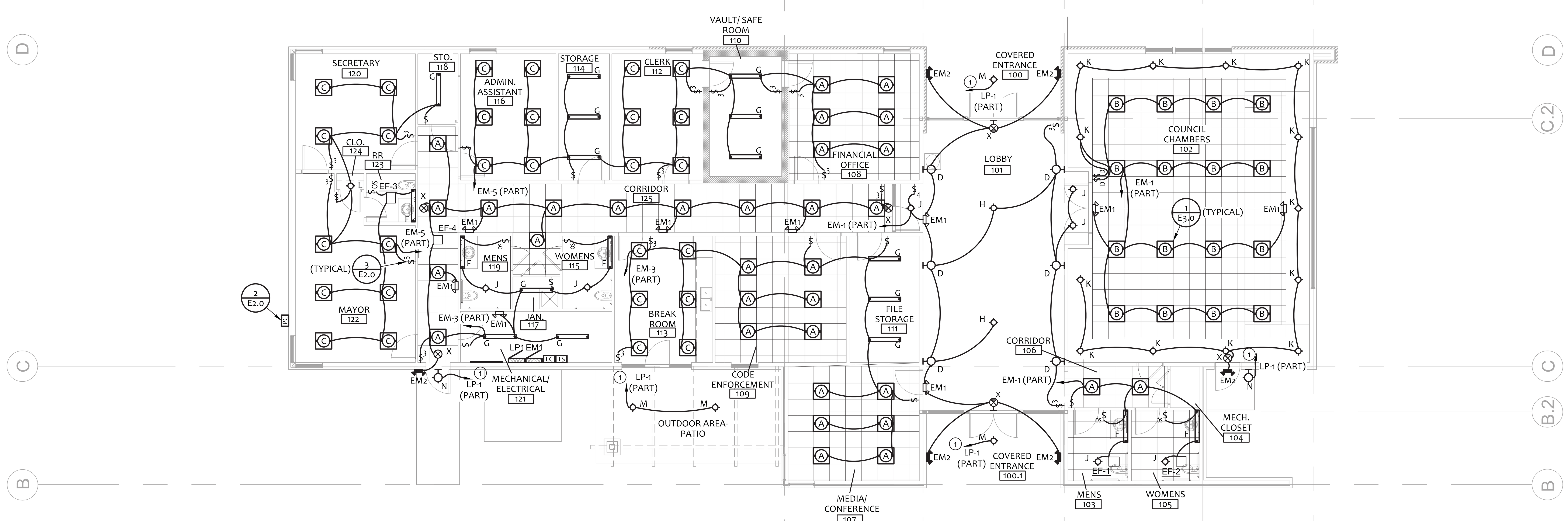
P. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR/GROUND MOUNTED EQUIPMENT. PADS SHALL BE 4" LARGER THAN THE EQUIPMENT, REFER TO THE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

Q. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.

R. EMERGENCY ILLUMINATION UNITS SHALL BE CONNECTED TO THE LOCAL NORMAL LIGHTING CIRCUIT AHEAD OF ANY LOCAL SWITCHING, REFER TO N.E.C. SECTION 700-12(e) FOR INFORMATION.

KEY NOTES

(1) HOMERUN CIRCUITRY ROUTED THROUGH LIGHTING CONTACTOR LC.



1 LIGHTING PLAN

0 1' 2' 4' 8' 12'

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Braden S. Cox
15268

DATE
11/07/2016

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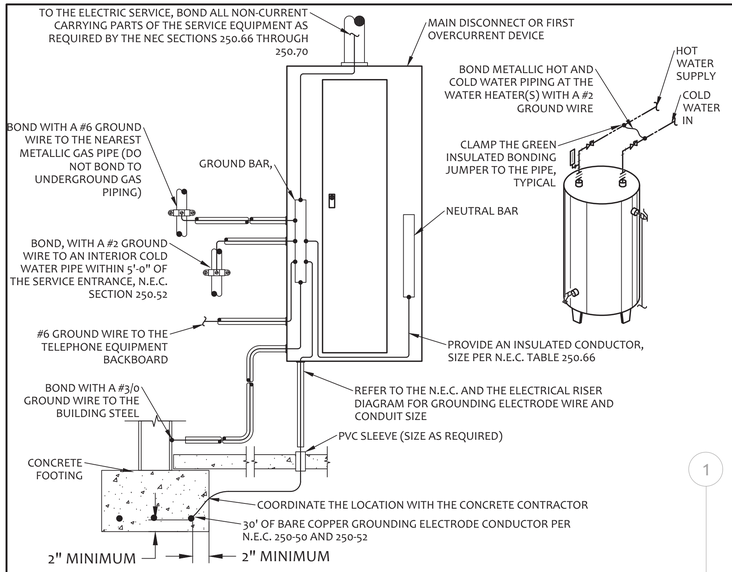
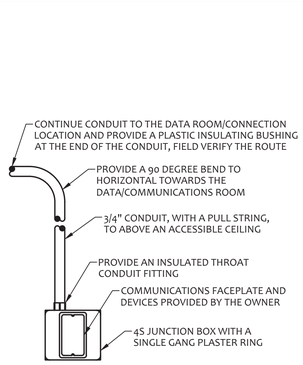
LIGHTING PLAN

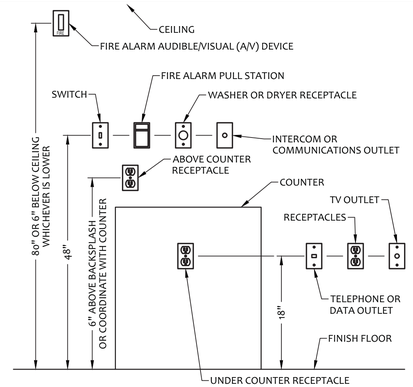
E1.0



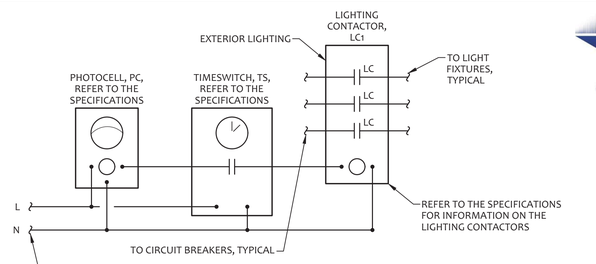
5 GROUNDING DETAIL
NOT TO SCALE



4 COMMUNICATIONS/ DATA/TV BOX DETAIL
NOT TO SCALE

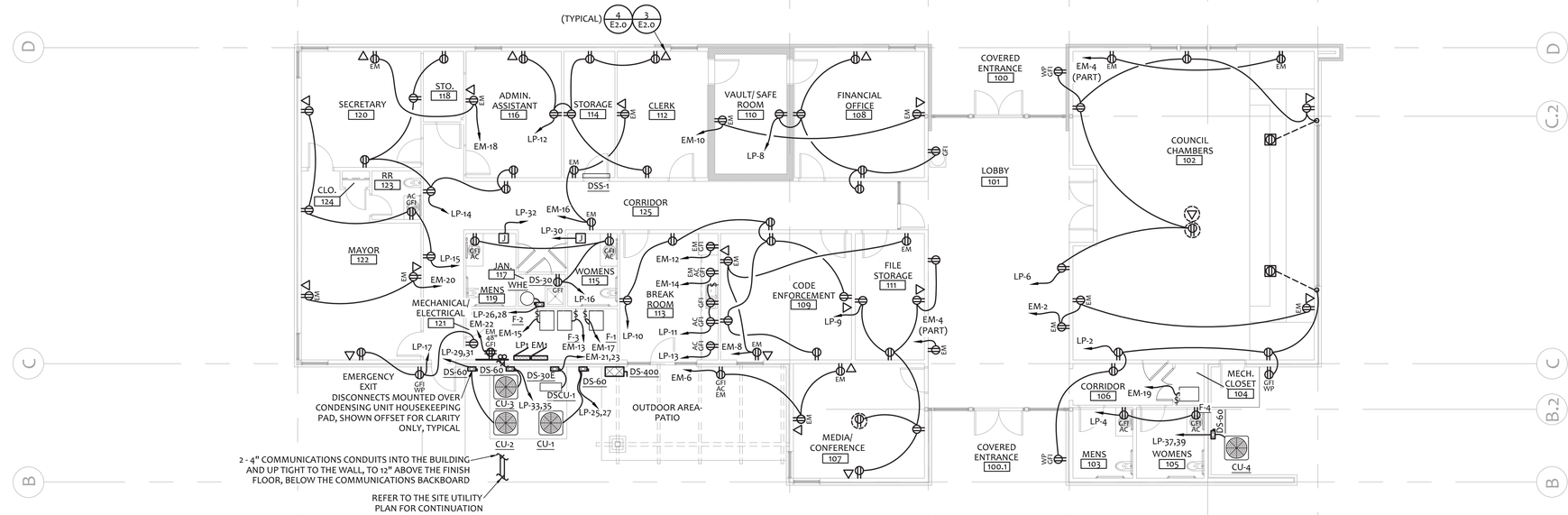


3 TYPICAL MOUNTING HEIGHTS
NOT TO SCALE



SEQUENCE OF OPERATION:
1. TIME SWITCH WILL PROVIDE AUTOMATIC ADJUSTIBLE "OFF" TIME SETTING.
2. THE PHOTO-CELL SWITCH WILL PROVIDE THE AUTOMATIC "ON" AT DUSK.
3. INITIALLY THE TIME SWITCH SHALL BE SET TO TURN "ON" (CLOSE CONTACT) AT 3:00 P.M. AND TURN "OFF" (OPEN CONTACT) AT 12:00 A.M. (MIDNIGHT). THESE SETTINGS SHALL BE ADJUSTED AS DIRECTED BY LOCAL USERS OF FACILITY.
4. LOCATE THE TIMESWITCH, CONTACTOR AND PHOTOCELL PER THE PLANS.

2 EXTERIOR LIGHTING CONTROL DETAIL
NOT TO SCALE



1 POWER AND DATA PLAN
0 1' 2' 4' 8' 12'

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Braden S. Cox 15268 DATE 11/07/2016

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POWER PLAN

E2.0

PANEL EM SCHEDULE

AMP RATING	225		PHASE	1		MIN. INT. AMP	22 KAIC		MANUFACTURER	SQUARE D	
200 AMP MAIN	BREAKER		WIRE	3		MOUNTING	SURF.		TYPE	NQ	
VOLTAGE	120/240		SPACES	42		NEMA CONFIG.	NEMA 1		BUS	ALUM.	

CIRCUIT NO.	LOAD DESCRIPTION	CATEGORY	LOAD (VA)	CKT. BRKR.	WIRE ϕ & N	WIRE EGC	LOAD (VA) PHASE A	LOAD (VA) PHASE B	WIRE EGC	WIRE ϕ & N	CKT. BRKR.	LOAD (VA)	CATEGORY	LOAD DESCRIPTION	CIRCUIT NO.
1	LIGHTING-101 LOBBY, 102 COUNCIL CHAMBERS, 103 MENS, 105 WOMENS & 106 CORRIDOR	L	1764	20/1	12	12	2844		12	12	20/1	1080	R	RECEPT.-101 LOBBY & 102 COUNCIL CHAMBERS	2
3	LIGHTING-107 MEDIA/CONF., 111 FILE STOR., 113 BREAKROOM, 115 WOMENS, 117 JAN., 119 MENS, MECH./ELEC. 121 & 125 CORRIDOR	L	1324	20/1	12	12		2404	12	12	20/1	1080	R	RECEPT.-101 LOBBY & 102 COUNCIL CHAMBERS	4
5	LIGHTING-108 FINANCE OFFICE, 110 VAULT/SAFE ROOM, 112 CLERK, 114 STORAGE, 116 ADMIN. ASSIST., 118 STORAGE, 120 SECRETARY, 123 RESTROOM & 122 MAYOR	L	1259	20/1	12	12	2339		12	12	20/1	1080	R	RECEPT.-107 MEDIA CONF. & EXTERIOR	6
7	SPACE	-	0	-	-	-		1080	12	12	20/1	1080	R	RECEPT.-109 CODE ENFORCEMENT & 111 FILE STORAGE	8
9	SPACE	-	0	-	-	-	720		12	12	20/1	720	R	RECEPT.-108 FINANCE & 110 VAULT/SAFE	10
11	SPACE	-	0	-	-	-		1000	12	12	20/1	1000	R	RECEPT.-113 BREAKROOM REFRIGERATOR	12
13	FURNACE F-1	H	1183	20/1	12	12	2683		12	12	20/1	1500	R	RECEPT.-113 BREAKROOM COUNTER	14
15	FURNACE F-2	H	1571	20/1	12	12		2651	12	12	20/1	1080	R	RECEPT.-112 CLERK, 114 STORAGE & 125 CORRIDOR	16
17	FURNACE F-3	H	1183	20/1	12	12	1903		12	12	20/1	720	R	RECEPT.-116 ADMIN. ASSIST. & 120 SECRETARY	18
19	FURNACE F-4	H	1571	20/1	12	12		2291	12	12	20/1	720	R	RECEPT.-122 MAYOR	20
21	DUCTLESS SPLIT SYSTEM DSCU-1	C	439	15/2	12	12	1159		12	12	20/1	720	R	RECEPT.-121 MECH./ELEC. BACKBOARD	22
23		C	439		12	-		439	-	-	20/1	0	-	SPARE	24
25	SPACE	-	0	-	-	-	0		-	-	20/1	0	-	SPARE	26
27	SPACE	-	0	-	-	-		0	-	-	20/1	0	-	SPARE	28
29	SPACE	-	0	-	-	-	0		-	-	20/1	0	-	SPARE	30
31	SPACE	-	0	-	-	-		0	-	-	-	0	-	SPACE	32
33	SPACE	-	0	-	-	-	0		-	-	-	0	-	SPACE	34
35	SPACE	-	0	-	-	-		0	-	-	-	0	-	SPACE	36
37	SPACE	-	0	-	-	-	0		-	-	-	0	-	SPACE	38
39	SPACE	-	0	-	-	-		0	-	-	-	0	-	SPACE	40
41	SPACE	-	0	-	-	-	0		-	-	-	0	-	SPACE	42

ACCESSORIES:	TOTAL PER PHASE (VA)	11648	9864
GF-GROUND FAULT PROTECTED BREAKER	TOTAL CONNECTED (VA)	21512	
AF-ARC FAULT PROTECTED BREAKER	**TOTAL CONNECTED AMPS**	90	
HL-HANDLE LOCK ON/OFF DEVICE	**TOTAL DIVERSIFIED AMPS**	89	
TOTAL DIVERSIFIED AMPS WITH A 10% SAFETY FACTOR		98	

GENERAL NOTES:

LOAD PER CATEGORY (VA)			
LIGHTING 'L'	4347	MOTORS 'M'	0
RECEPTACLES 'R'	10780	MISC. 'MC'	0
HEATING 'H'	5508	KITCHEN 'K'	0
COOLING 'C'	877	LARGEST MOTOR 'LM'	0
WATER HEATER 'W'	0		

PANEL LP SCHEDULE

AMP RATING	225		PHASE	1		MIN. INT. AMP	22 KAIC		MANUFACTURER	SQUARE D	
200 AMP MAIN	BREAKER		WIRE	3		MOUNTING	SURF.		TYPE	NQ	
VOLTAGE	120/240		SPACES	42		NEMA CONFIG.	NEMA 1		BUS	ALUM.	

CIRCUIT NO.	LOAD DESCRIPTION	CATEGORY	LOAD (VA)	CKT. BRKR.	WIRE ϕ & N	WIRE EGC	LOAD (VA) PHASE A	LOAD (VA) PHASE B	WIRE EGC	WIRE ϕ & N	CKT. BRKR.	LOAD (VA)	CATEGORY	LOAD DESCRIPTION	CIRCUIT NO.
1	LIGHTING-EXTERIOR	L	600	20/1	12	12	1680		12	12	20/1	1080	R	RECEPT.-101 LOBBY, 102 COUNCIL CHAMBERS, 106 CORRIDOR & EXTERIOR	2
3	LIGHTING-PARKING LOT	L	413	20/1	12	12		773	12	12	20/1	360	R	RECEPT.-103 MEN'S RR & 105 WOMEN'S RR	4
5	SPARE	-	0	20/1	-	-	1260		12	12	20/1	1260	R	RECEPT.-101 LOBBY, 102 COUNCIL CHAMBERS & EXTERIOR	6
7	SPARE	-	0	20/1	-	-		1080	12	12	20/1	1080	R	RECEPT.-101 LOBBY, 108 FINANCE, 110 VAULT/SAFE & 125 CORRIDOR	8
9	RECEPT.-101 LOBBY, 107 MEDIA/CONF. & 111 FILE STOR.	R	1260	20/1	12	12	2520		12	12	20/1	1260	R	RECEPT.-109 CODE ENFORCEMENT, 113 BREAK ROOM & 125 CORRIDOR	10
11	RECEPT.-113 BREAKROOM COUNTER	R	1180	20/1	12	12		2260	12	12	20/1	1080	R	RECEPT.-112 CLERK, 114 STORAGE & 116 ADMIN. ASSIST.	12
13	RECEPT.-113 BREAKROOM COUNTER	R	180	20/1	12	12	1260		12	12	20/1	1080	R	RECEPT.-116 ADMIN. ASSIST., 118 STORAGE, 120 SECRETARY & 125 CORRIDOR	14
15	RECEPT.-120 SECRETARY, MAYOR 122, RESTROOM 123 & 125 CORRIDOR	R	720	20/1	12	12		1260	12	12	20/1	540	R	RECEPT.-115 WOMEN'S, 117 JANITOR & 119 MEN'S	16
17	RECEPT.-122 MAYOR & EXTERIOR	R	360	20/1	12	12	360		12	12	20/1	0	R	SPARE	18
19	SPACE	R	0	20/1	12	12		0	12	12	20/1	0	R	SPARE	20
21	SPACE	R	0	20/1	12	12	0		12	12	20/1	0	R	SPARE	22
23	SPACE	R	0	20/1	12	12		0	12	12	20/1	0	R	SPARE	24
25	CONDENSING UNIT CU-1	C	2659	45/2	8	10	4909		10	10	30/2	2250	R	WATER HEATER WHE	26
27		C	2659		8	-		4909	-	10		2250	R		28
29	CONDENSING UNIT CU-2	C	2659	45/2	8	10	4459		12	12	20/1	1800	MC	WOMEN'S RESTROOM HAND DRYER	30
31		C	2659		8	-		4459	12	12	20/1	1800	MC	MEN'S RESTROOM HAND DRYER	32
33	CONDENSING UNIT CU-3	C	2659	45/2	8	10	2659		-	-	-	0	-	SPACE	34
35		C	2659		8	-		2659	-	-	-	0	-	SPACE	36
37	CONDENSING UNIT CU-4	C	3571	60/2	6	10	3571		-	-	-	0	-	SPACE	38
39		C	3571		6	-		3571	-	-	-	0	-	SPACE	40
41	SPACE	-	0	-	-	-	0		-	-	-	0	-	SPACE	42

ACCESSORIES:	TOTAL PER PHASE (VA)	22679	20972
GF-GROUND FAULT PROTECTED BREAKER	TOTAL CONNECTED (VA)	43651	
AF-ARC FAULT PROTECTED BREAKER	**TOTAL CONNECTED AMPS**	182	
HL-HANDLE LOCK ON/OFF DEVICE	**TOTAL DIVERSIFIED AMPS**	194	
TOTAL DIVERSIFIED AMPS WITH A 10% SAFETY FACTOR		213	

GENERAL NOTES:

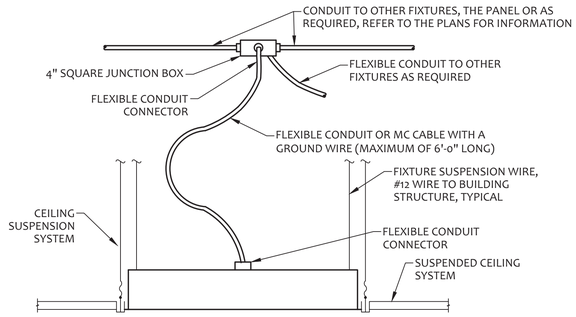
LOAD PER CATEGORY (VA)			
LIGHTING 'L'	1013	MOTORS 'M'	0
RECEPTACLES 'R'	15940	MISC. 'MC'	3600
HEATING 'H'	0	KITCHEN 'K'	0
COOLING 'C'	23098	LARGEST MOTOR 'LM'	0
WATER HEATER 'W'	0		

DISCONNECT SWITCH SCHEDULE

MARK	LOAD EQUIPMENT SERVED	LOAD VOLTS	SWITCH DUTY	SWITCH AMP	SWITCH POLES	FUSE AMP	FUSE TYPE	NEMA	REMARKS
DS-30	SQUARE D	240	GENERAL	30	2	-	-	1	-
DS-30E	SQUARE D	240	GENERAL	30	2	-	-	3R	-
DS-60	SQUARE D	240	GENERAL	60	2	-	-	3R	-
DS-400	SQUARE D	240	GENERAL	400	2	400	LPN-RK	3R	1

REMARKS:

1. SERVICE ENTRANCE RATED DISCONNECT.



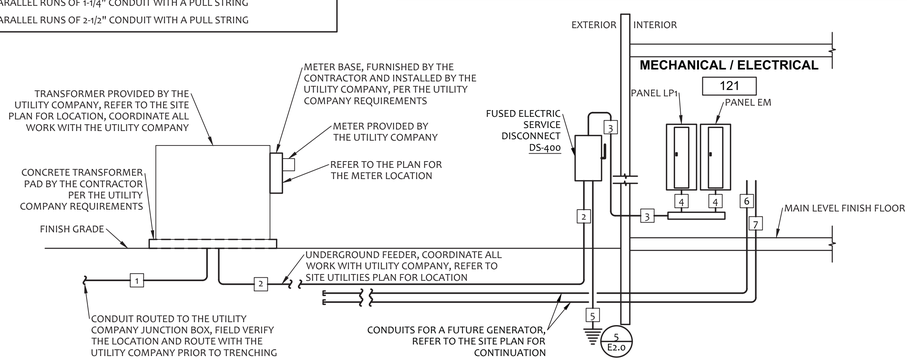
1 RECESSED FLUORESCENT FIXTURE INSTALLATION DETAIL
NOT TO SCALE

FEEDER SCHEDULE

1. 3 PARALLEL RUNS OF 2" CONDUITS
2. 2 PARALLEL RUNS OF 2" CONDUIT EACH WITH 3-#3/0
3. 2 PARALLEL RUNS OF 2" CONDUIT EACH WITH 3-#3/0 AND 1-#3 GROUND
4. 2" CONDUIT WITH 3-#3/0 AND 1-#6 GROUND
5. 3/4" CONDUIT WITH 1-#2 COPPER GROUNDING ELECTRODE CONDUCTOR
6. 2 PARALLEL RUNS OF 1-1/4" CONDUIT WITH A PULL STRING
7. 2 PARALLEL RUNS OF 2-1/2" CONDUIT WITH A PULL STRING

AVAILABLE FAULT CURRENT

THE FOLLOWING ASSUMPTIONS WERE MADE TO CALCULATE THE AVAILABLE FAULT CURRENT: 1,000 KVA TRANSFORMER, 2% IMPEDANCE AND THE METER IS MOUNTED ON THE TRANSFORMER. CONTRACTOR SHALL CONTACT THE ENGINEER IF MODIFICATIONS ARE MADE TO THE CONSTRUCTION DOCUMENT SPECIFIED CONDUCTOR TYPE, CONDUCTOR QUANTITY, TRANSFORMER LOCATION OR INFORMATION. IF NO MODIFICATIONS ARE MADE TO THE SYSTEM THE CONTRACTOR SHALL PROVIDE AN ENGRAVED SIGN AT THE SERVICE DISCONNECT. THE SIGN SHALL COMPLY WITH THE NEC AND THE AUTHORITY HAVING JURISDICTION AND READ, "MAXIMUM AVAILABLE FAULT CURRENT: 58,500 AMPS, CALCULATED ON AUGUST 20, 2016.



2 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	FINISH	MOUNTING	LAMP	VOLTAGE	REMARKS
A	WILLIAMS	DIG-S24-L32/840-AD-DRV-UNV	DIRECT/IN-DIRECT LAY-IN LED	WHITE	LAY-IN	3,200 LUMEN 30W, 4,000K LED	120	-
B	WILLIAMS	DIG-S24-L32/840-AD-DIM-UNV	DIRECT/IN-DIRECT LAY-IN DIMMABLE LED	WHITE	LAY-IN	3,200 LUMEN 30W, 4,000K LED	120	3
C	WILLIAMS	DIG-S02-L24/840-AD-DRV-UNV	DIRECT/IN-DIRECT RECESSED 20" WIDE LED	WHITE	RECESSED	3,200 LUMEN 30W, 4,000K LED	120	-
D	WILLIAMS	LC7-L90C/840-WHT-SG-W-WM-DRV-120	WALL MOUNTED 7.5" LED CYLINDER	WHITE	SURFACE/WALL	9,000 LUMEN 80W, 4,000K LED	120	-
F	TERON LIGHTING	VCY48-L24-120-UDL-TE350-SM-40K	LINEAR ARCHITECTURAL VANITY	SILVER	SURFACE/WALL	2,916 LUMEN 28W, 4,000K LED	120	4
G	WILLIAMS	80-4-L63/840-DRV-UNV	INDUSTRIAL LED STRIP WITH REFLECTOR	WHITE	SURFACE	6,300 LUMEN 52W, 4,000K LED	120	-
H	WILLIAMS	LC7-L90C/840-WHT-SG-W-PM_ _-DRV-120	7.5" LED PENDANT CYLINDER	WHITE	PENDANT	9,000 LUMEN 80W, 4,000K LED	120	1
J	WILLIAMS	L60-L20C/840-SG/M-MWT-DRV-120	6" ROUND LED DOWNLIGHT	WHITE	RECESSED	2,000 LUMENS 26W, 4,000K LED	120	-
K	WILLIAMS	L60-L20C/840-SG/M-MWT-DIM-120	6" ROUND DIMMABLE LED DOWNLIGHT	WHITE	RECESSED	2,000 LUMEN 26W, 4,000K LED	120	3
L	WILLIAMS	L60C-L15C/840-SG/M-MWT-DRV-120	6" ROUND LED DOWNLIGHT	WHITE	RECESSED	1,500 LUMEN 19W, 4,000K LED	120	-
M	WILLIAMS	LSR8A-50-5000-P-ER8A-50-80-40-8LW0-H	8" LED SURFACE MOUNTED CYLINDER	WHITE	SURFACE	5,000 LUMEN 60W, 4,000K LED	120	-
N	TERON LIGHTING (TLI)	CDL-L48.0-120-CGL-TB-40K	EXTERIOR LED WALL PACK	BLACK	SURFACE/WALL	5,368 LUMEN 48W, 4,000K LED	120	2, 4
SL	WILLIAMS	VA1-L220-740-T4-F-S	LED PARKING LOT LIGHT	BLACK	POLE	22,000 LUMEN 213W, 5,000K LED	120	5
EM1	WILLIAMS	EMER/CP/ADJ/LED-WHT	LED EMERGENCY FIXTURE	WHITE	SURFACE/WALL	LED	120	-
EM2	WILLIAMS	EMER/DECO-BLK-LT	EXTERIOR LED EMERGENCY FIXTURE	BLACK	SURFACE/WALL	LED	120	4
X	WILLIAMS	EXIT/EL/RECESSED-SF/DF-R-CP/MP-WHT-EM-SDT	LED EXIT LIGHT FIXTURE	WHITE	RECESSED	LED	120	-

GENERAL NOTES:

A. COORDINATE AND VERIFY THE COLORS AND FINISHES OF ALL FIXTURES WITH THE ARCHITECT AND/OR OWNER.
B. PROVIDE ALL NECESSARY FRAMING KITS FOR FIXTURES MOUNTED IN CEILINGS.
C. PROVIDE ALL NECESSARY STEMS, ACCESSORIES, HARDWARE AND ASSOCIATED EQUIPMENT AND MATERIAL FOR A COMPLETE INSTALLATION.
D. COORDINATE THE EXACT MOUNTING HEIGHT, LOCATION AND DETAILS WITH THE SITE CONDITIONS AND THE ARCHITECTURAL PLANS PRIOR TO ROUGHING IN.

REMARKS:

1. SUSPEND WITH THE BOTTOM OF THE FIXTURE AT 14'-0" ABOVE THE FINISH FLOOR.
2. MOUNT WITH THE BOTTOM OF THE FIXTURE AT 10'-0" ABOVE THE FINISH GRADE.
3. 0-10 VOLT DIMMABLE, REFER TO THE SPECIFICATIONS FOR 0-10 VOLT DIMMER INFORMATION.
4. COORDINATE WITH THE ARCHITECTURAL PLANS FOR THE FIXTURE MOUNTING LOCATION.
5. 25'-0" TALL STRAIGHT SQUARE STEEL BLACK POLE.

GHN CONSULTING ENGINEERS
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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 15268 BRADEN S. COX
Braden S. Cox 15268 DATE 11/07/2016

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 Phone (501) 375 - 1786 FAX (501) 375 - 1277

FORREST CITY NEW CITY HALL
FORREST CITY, AR

ISSUE / DATE	NOVEMBER 7, 2016
DATE	11/07/2016
PROJECT NO.	16548.00
PROJECT PHASE	Construction Documents
DRAWN BY:	BMB
CHECKED BY:	BSC

ELECTRICAL SCHEDULES & DETAILS

E3.0