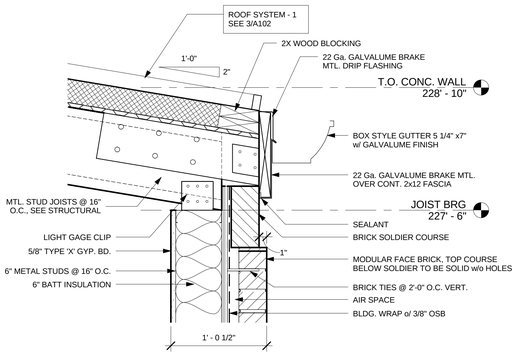
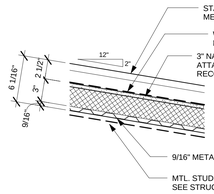


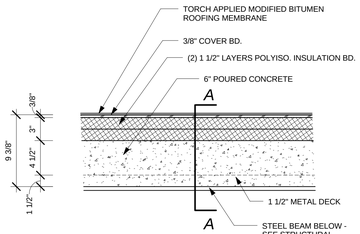
2 T.O. OF EXTERIOR WALL @ JOIST BRG.

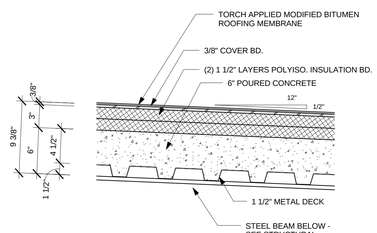
A102 1 1/2" = 1'-0"



3 ROOF-1 SYSTEM

A102 1 1/2" = 1'-0"

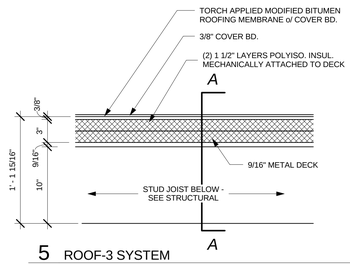


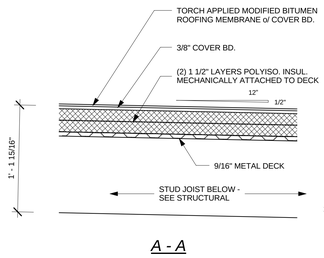


A - A

4 ROOF-2 SYSTEM

A102 1 1/2" = 1'-0"

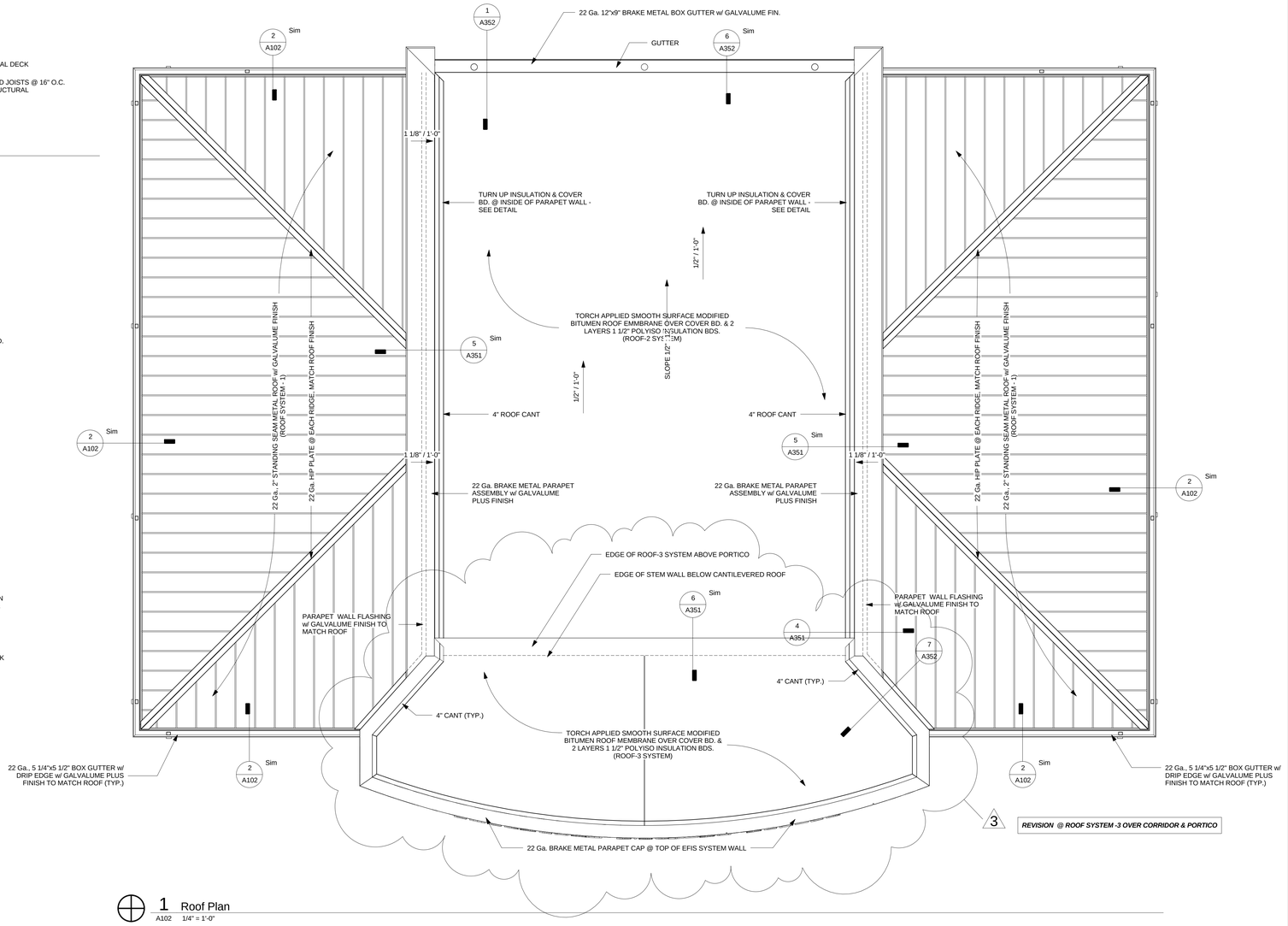




A - A

5 ROOF-3 SYSTEM

A102 1 1/2" = 1'-0"



1 Roof Plan

A102 1/4" = 1'-0"

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STAMPS

Issue / Date	
10/27/16	Construction Documents
12/02/16	Addendum 3, Revision 1

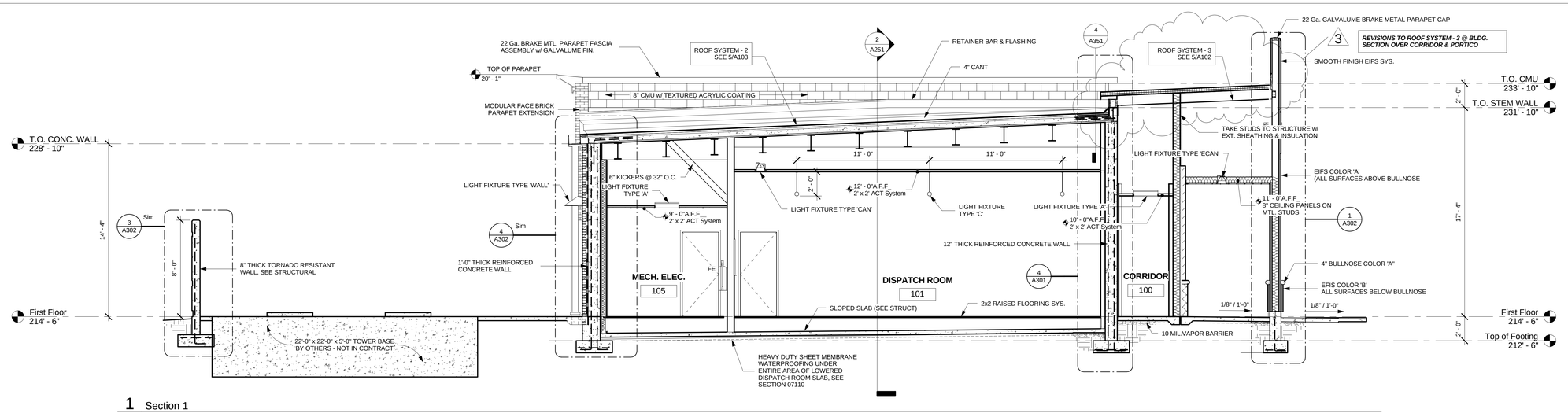
Project No.: 150303CPAG

Project Phase: Construction Documents

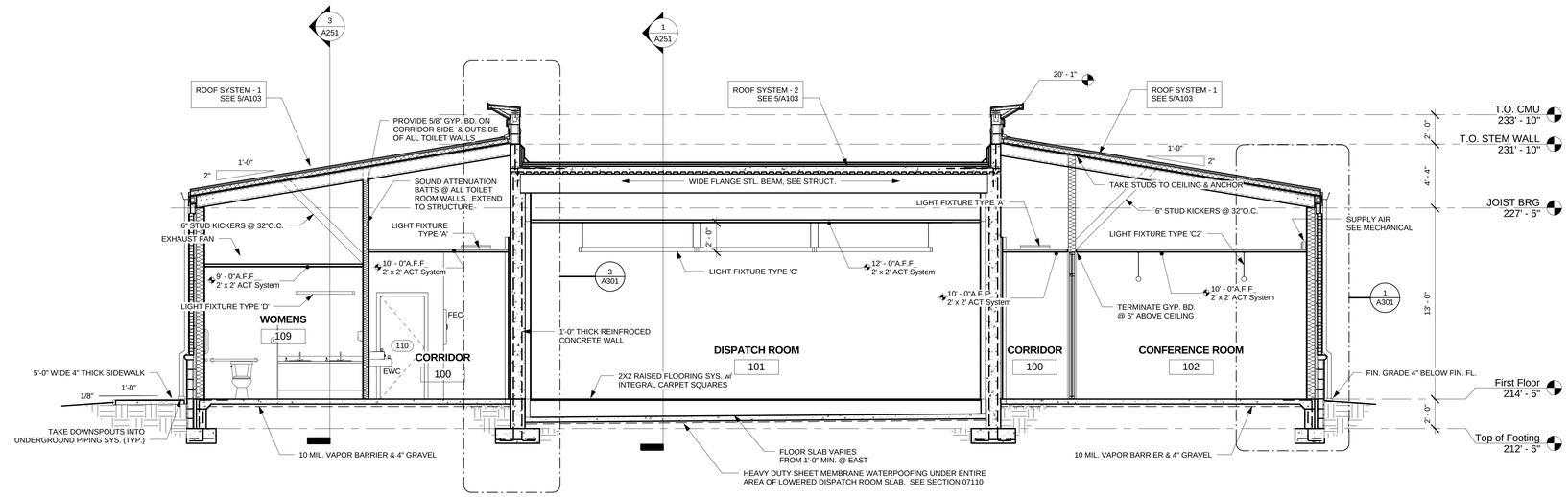
Drawn By: DH | Checked By: CM

ROOF PLAN

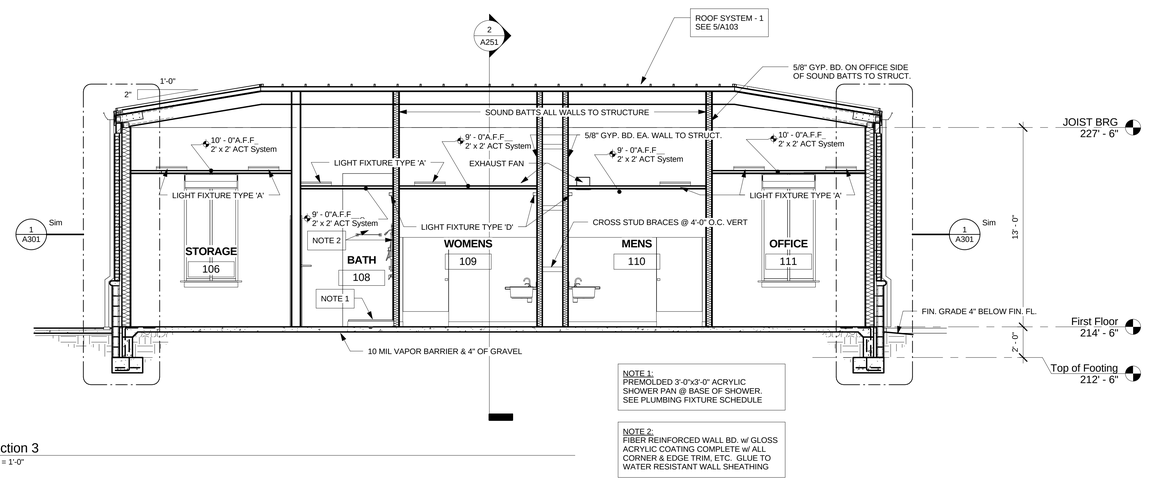
A102



1 Section 1
A251 1/4" = 1'-0"



2 Section 2
A251 1/4" = 1'-0"



3 Section 3
A251 1/4" = 1'-0"

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STAMPS

REGISTERED ARCHITECT — JAMES F. MENYHART, JR. — No. 1007 — ARKANSAS — 10/27/2016

Issue / Date	
10/27/16	Construction Documents
12/02/16	Addendum 3, Revision 1

Project No.: 150303CPAG

Project Phase: Construction Documents

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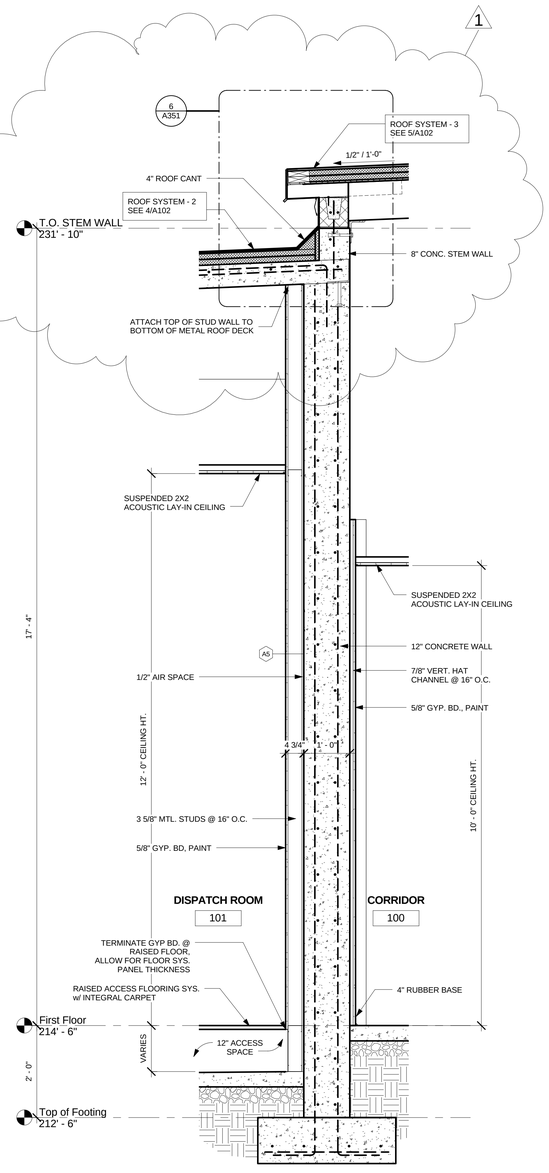
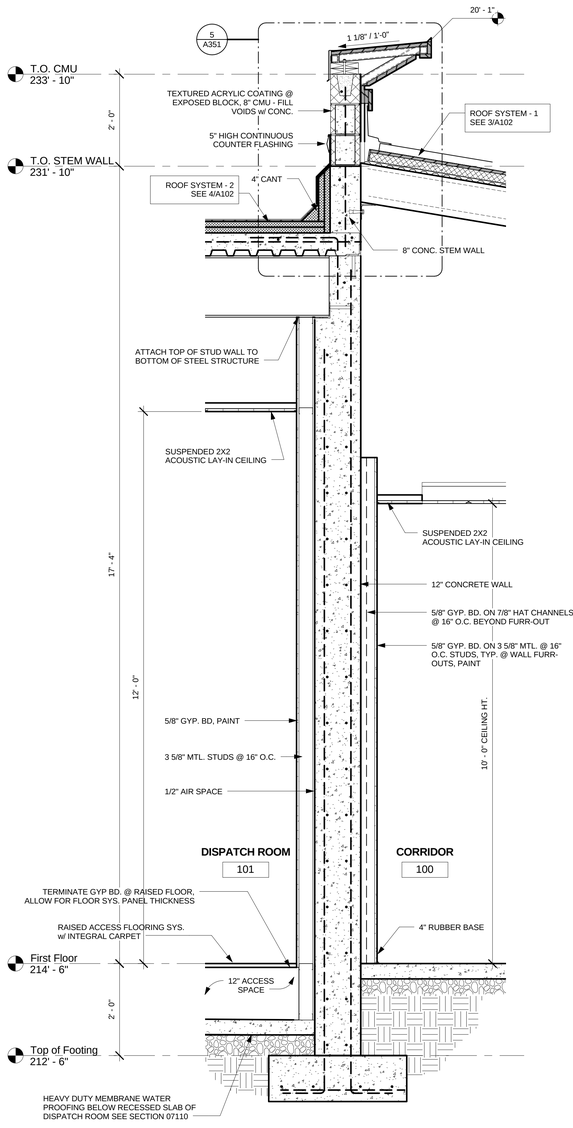
BUILDING SECTIONS

A251



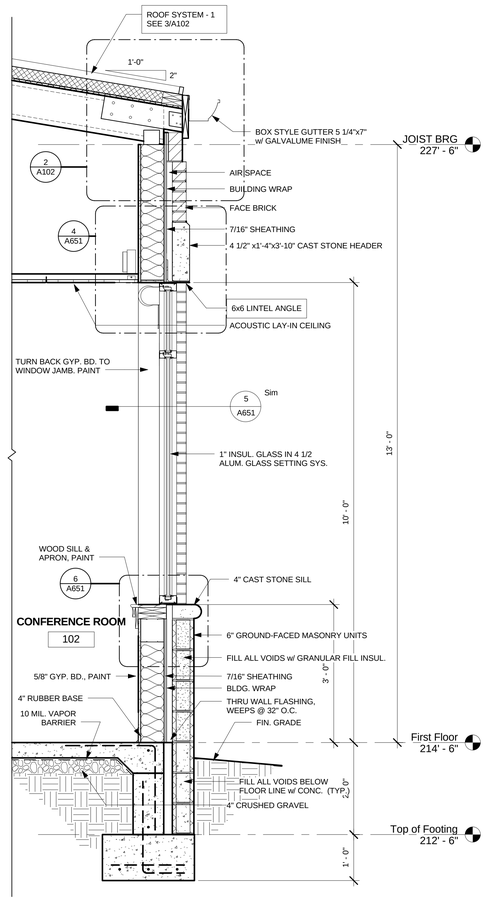
4 EAST WALL @ SAFE ROOM

A301 3/4" = 1'-0"



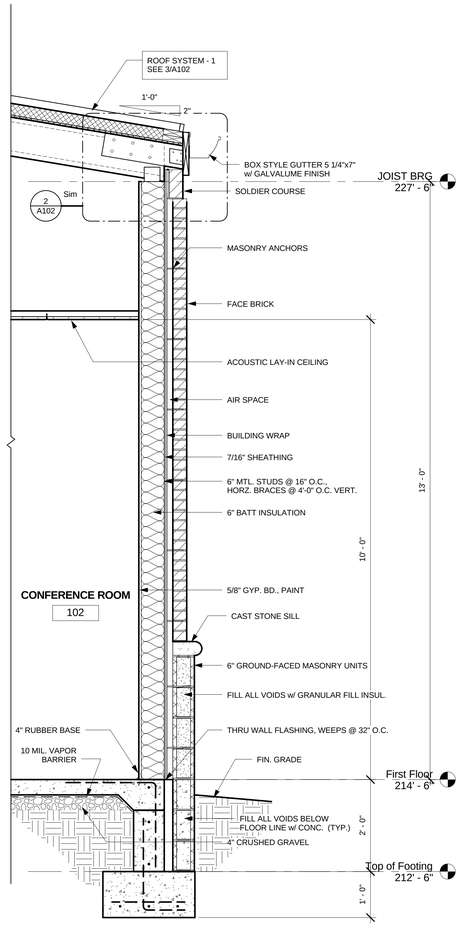
3 NORTH WALL @ SAFE ROOM

A301 3/4" = 1'-0"



2 EXTERIOR WALL THRU ALUM. GLASS SETTING

A301 3/4" = 1'-0"



1 EXTERIOR WALL SECTION

A301 3/4" = 1'-0"

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STAMPS

REGISTERED ARCHITECT
BRAD F. MENYHART
No. 1007
ARKANSAS
10/27/2016

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12/02/16	Addendum 3, Revision 1

Project No.: 150303CPAG

Project Phase: Construction Documents

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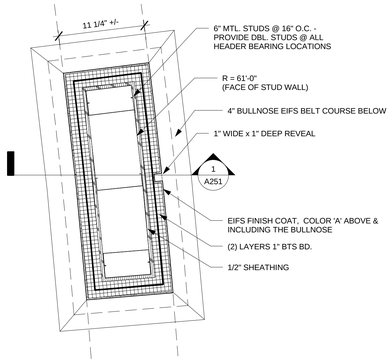
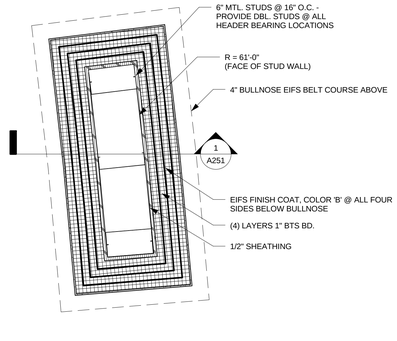
WALL SECTIONS

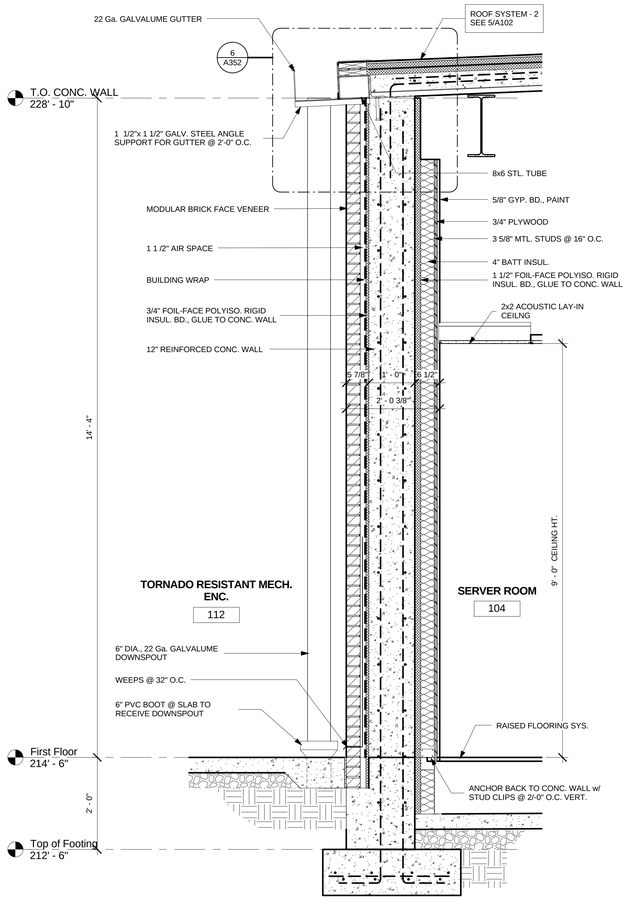
A301



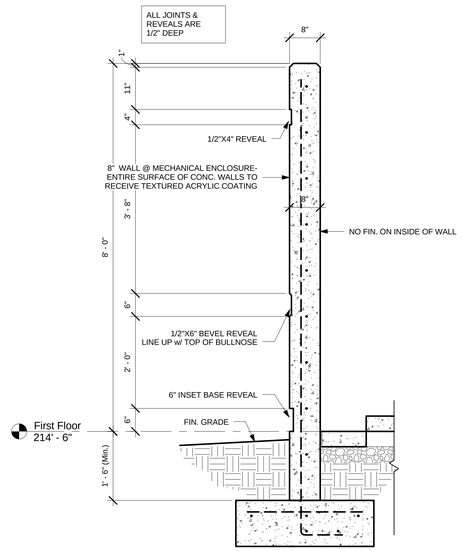
5 SECTION @ PORTICO PILASTER - ABOVE BELT COURSE
A302 1 1/2" = 1'-0"



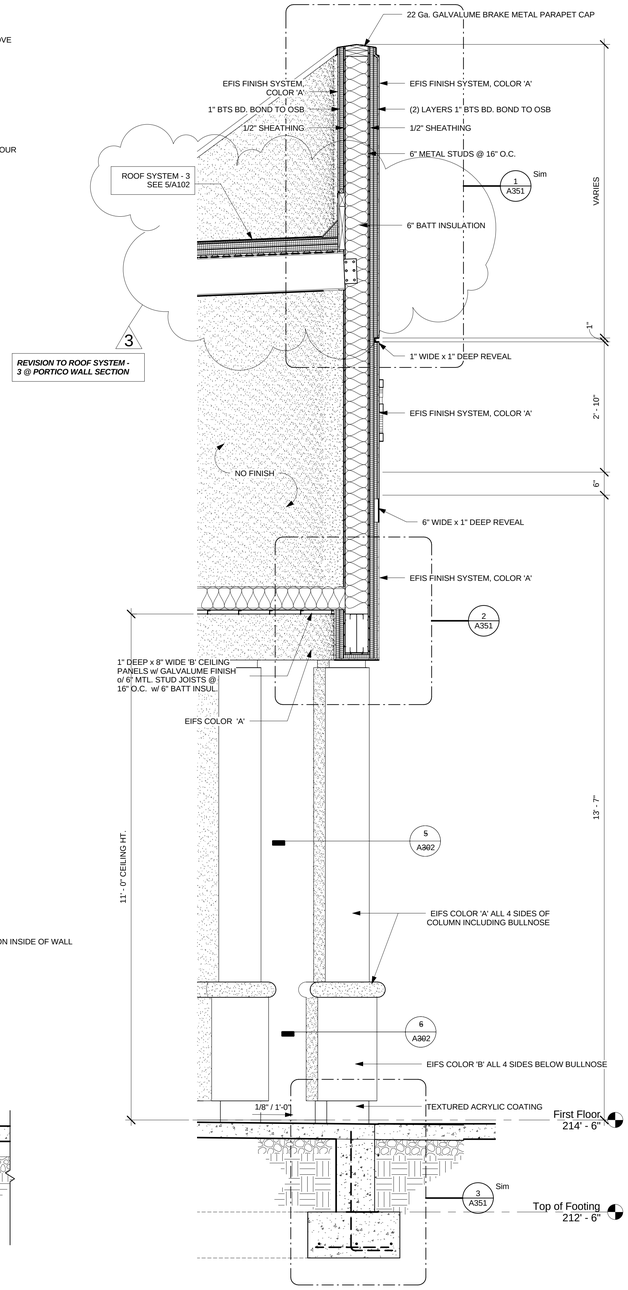
6 SECTION @ PORTICO PILASTER - BELOW BELT COURSE
A302 1 1/2" = 1'-0"



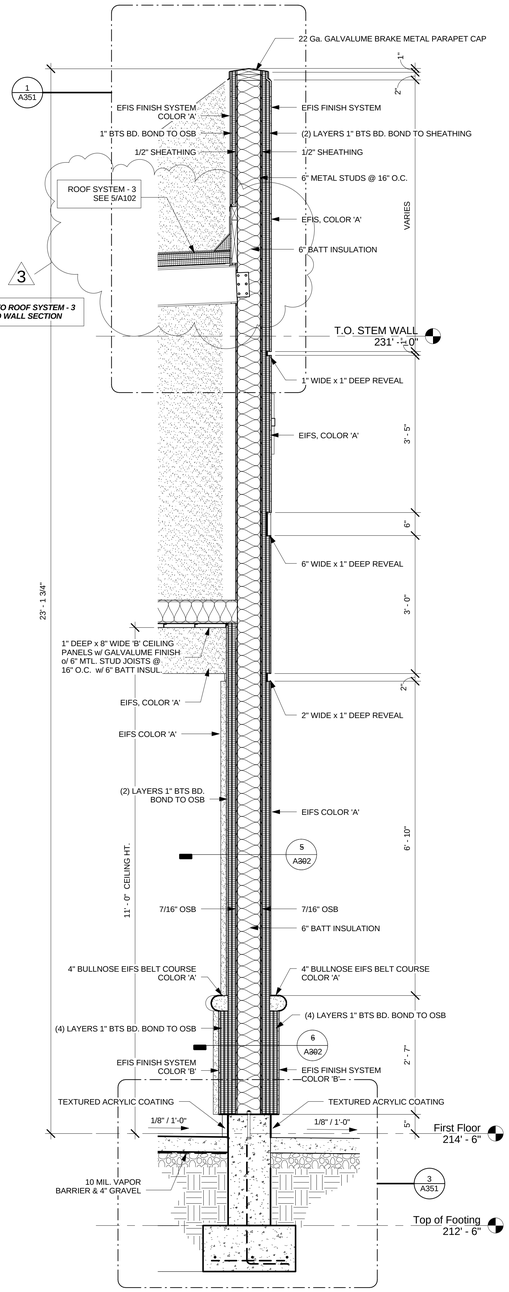
4 WEST WALL @ SAFE ROOM
A302 3/4" = 1'-0"



3 MECHANICAL ENCLOSURE WALL
A302 3/4" = 1'-0"



2 WALL SECTION @ PORTICO
A302 3/4" = 1'-0"



1 PORTICO SECTION
A302 3/4" = 1'-0"

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STAMPS

REGISTERED ARCHITECT — JAMES F. MENTHARTH, JR. — No. 1007 — ARKANSAS
10/27/2016

Issue / Date	
10/27/16	Construction Documents
12/02/16	Addendum 3, Revision 1

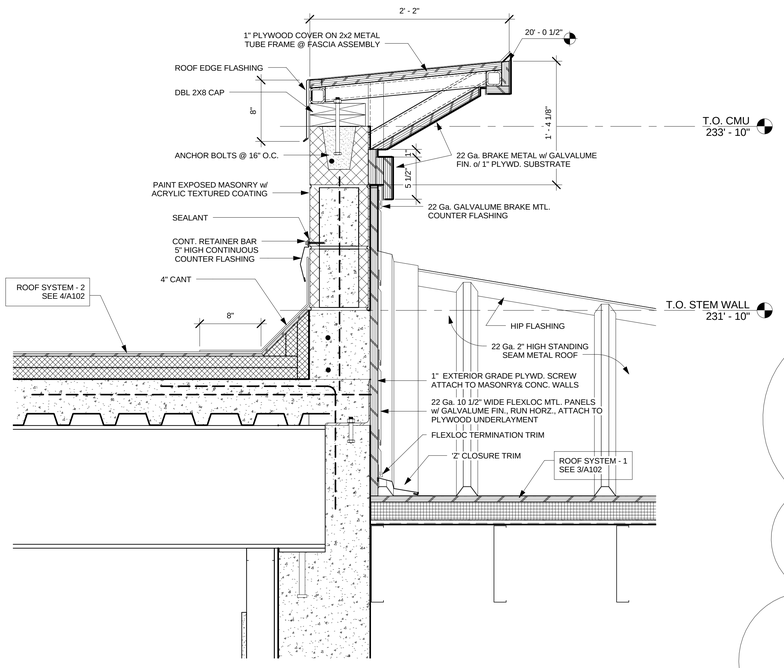
Project No.: 150303CPAG

Project Phase: Construction Documents

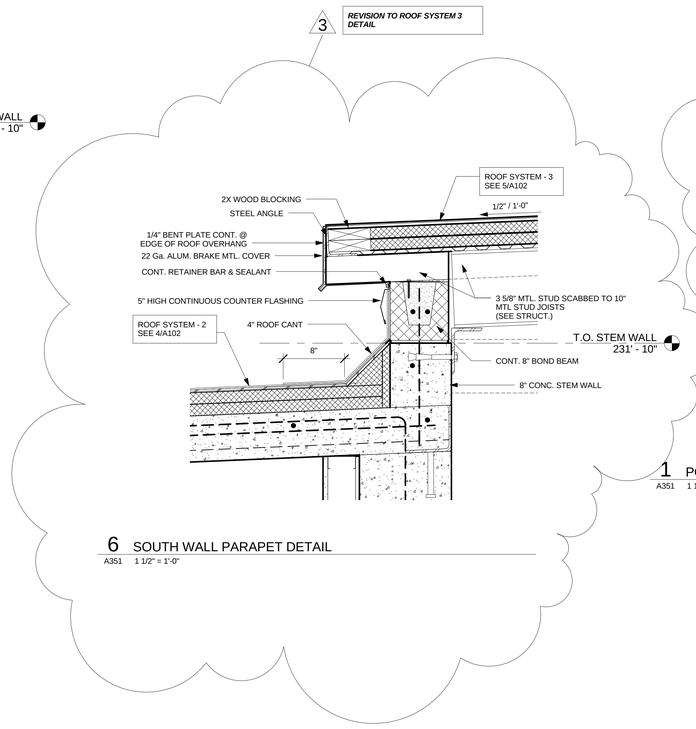
Drawn By: DH | Checked By: CM

WALL SECTIONS

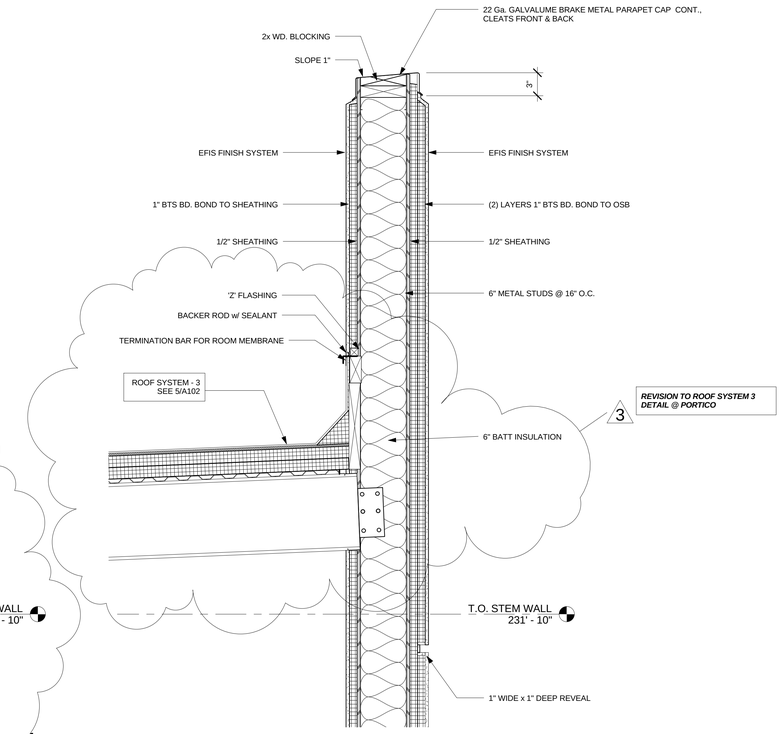
A302



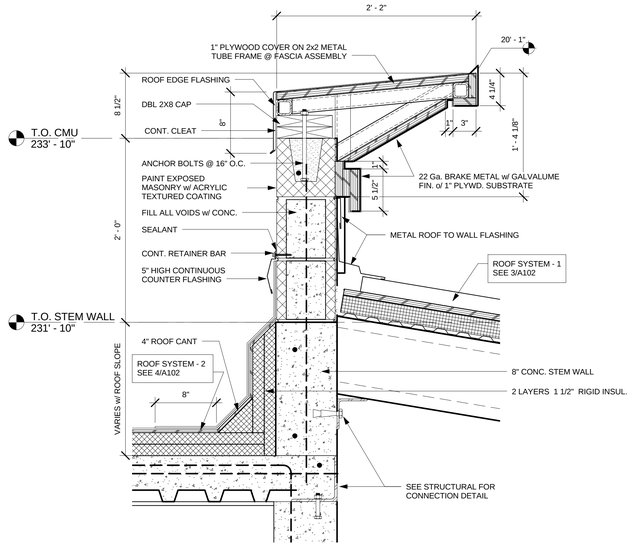
4 PARAPET CAP / STANDING SEAM - RAKE
A351 1 1/2" = 1'-0"



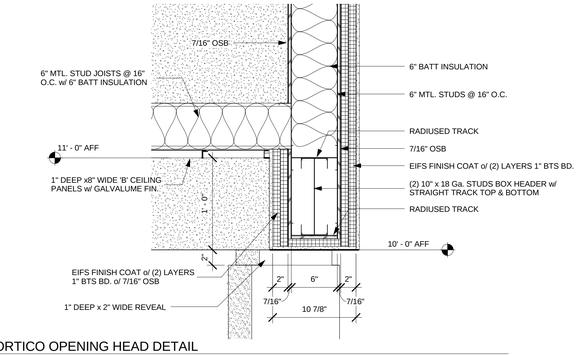
6 SOUTH WALL PARAPET DETAIL
A351 1 1/2" = 1'-0"



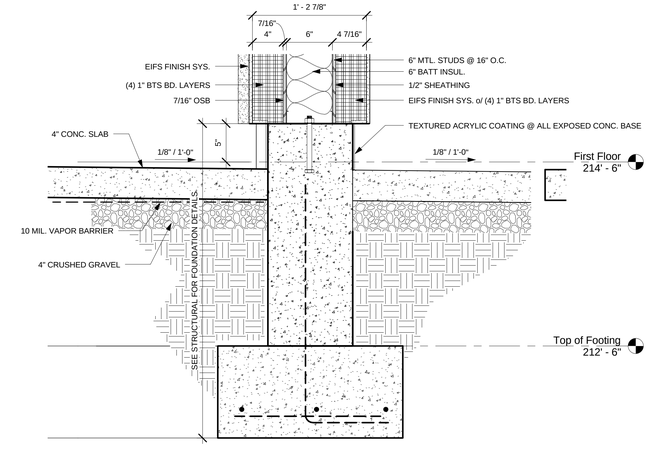
1 PORTICO PARAPET DETAIL
A351 1 1/2" = 1'-0"



5 PARAPET CAP DETAIL @ RIDGE
A351 1 1/2" = 1'-0"



2 PORTICO OPENING HEAD DETAIL
A351 1 1/2" = 1'-0"



3 PORTICO BASE DETAIL
A351 1 1/2" = 1'-0"

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Issue / Date	
10/27/16	Construction Documents
12/02/16	Addendum 3, Revision 1

Project No.: 150303CPAG

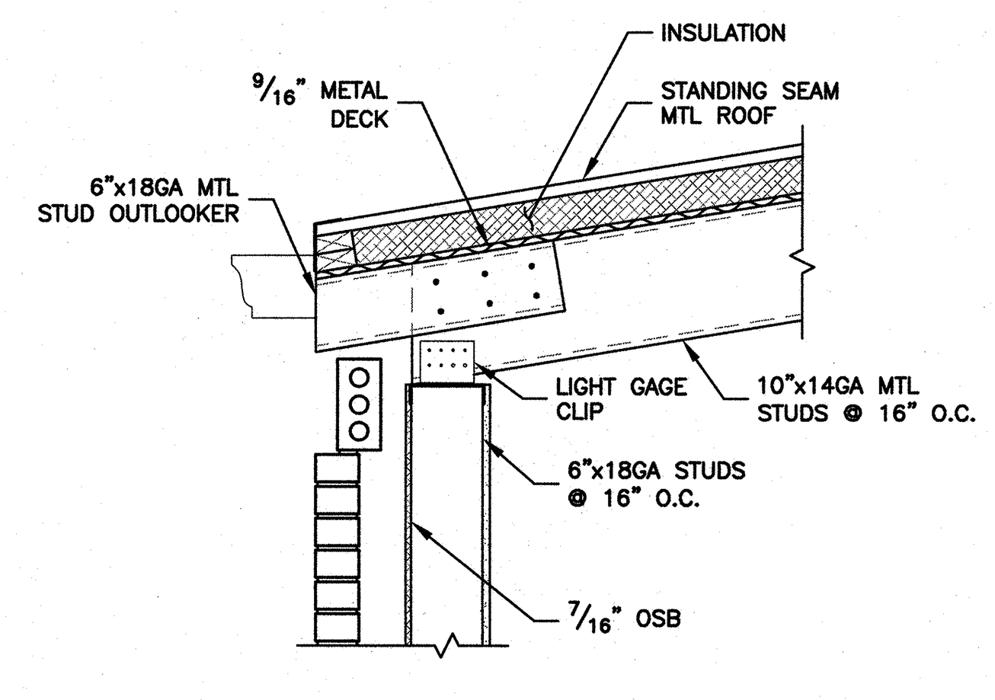
Project Phase: Construction Documents

Drawn By: DH

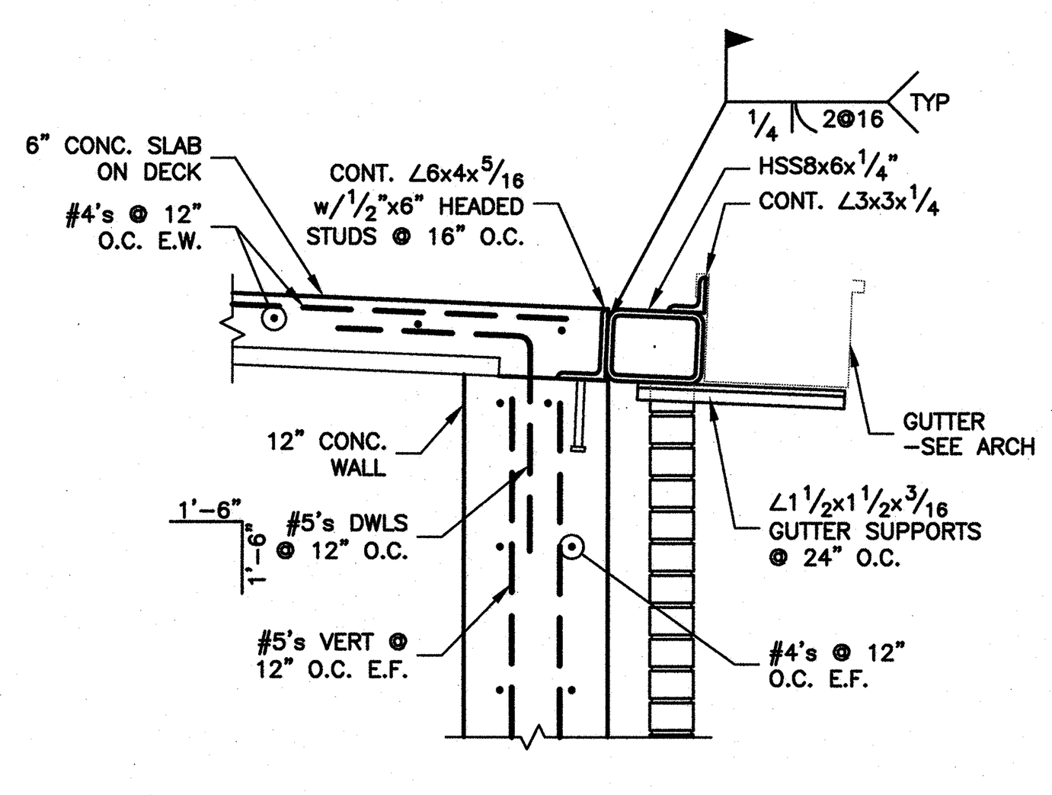
Checked By: CM

EXTERIOR DETAILS

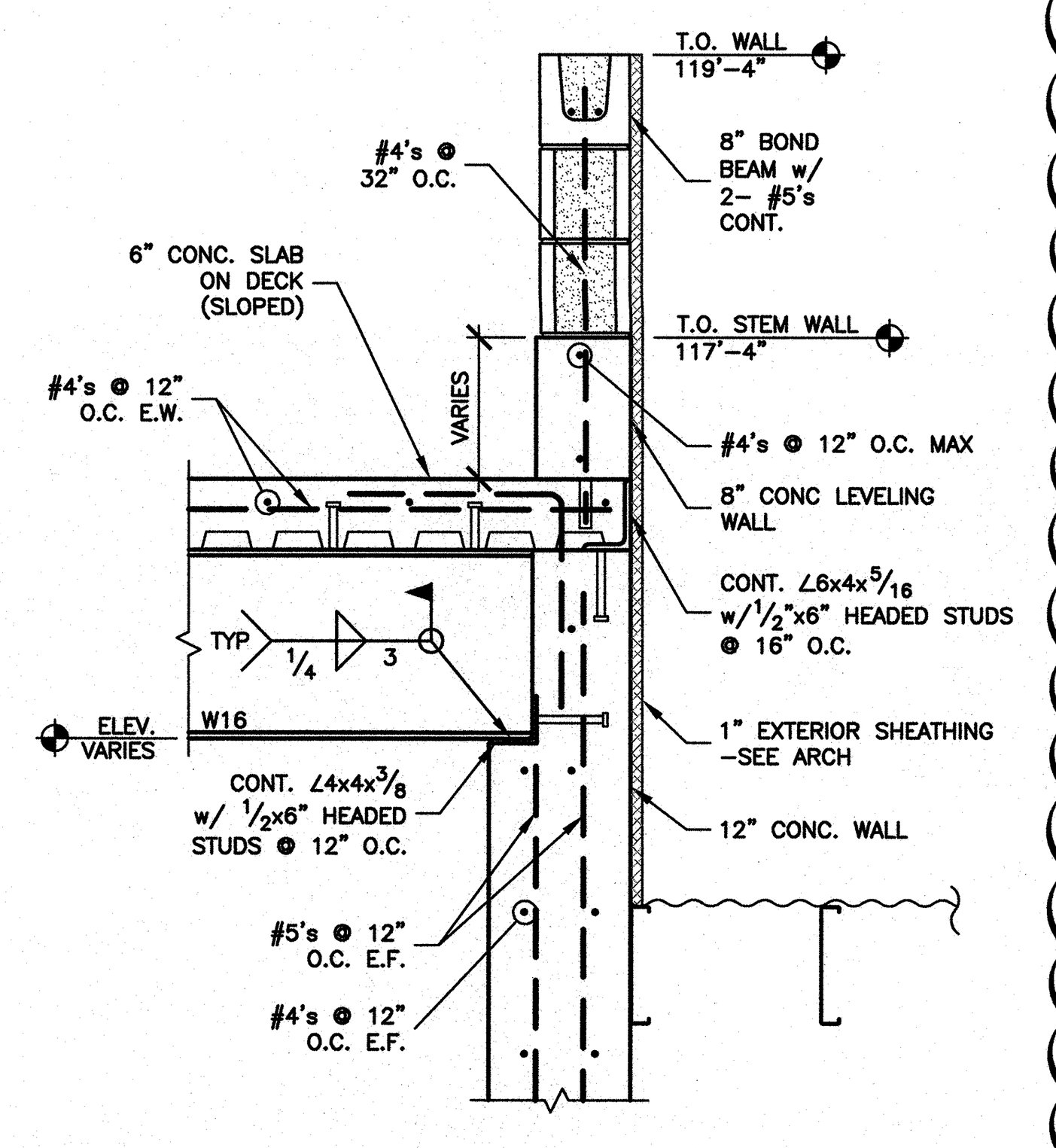
A351



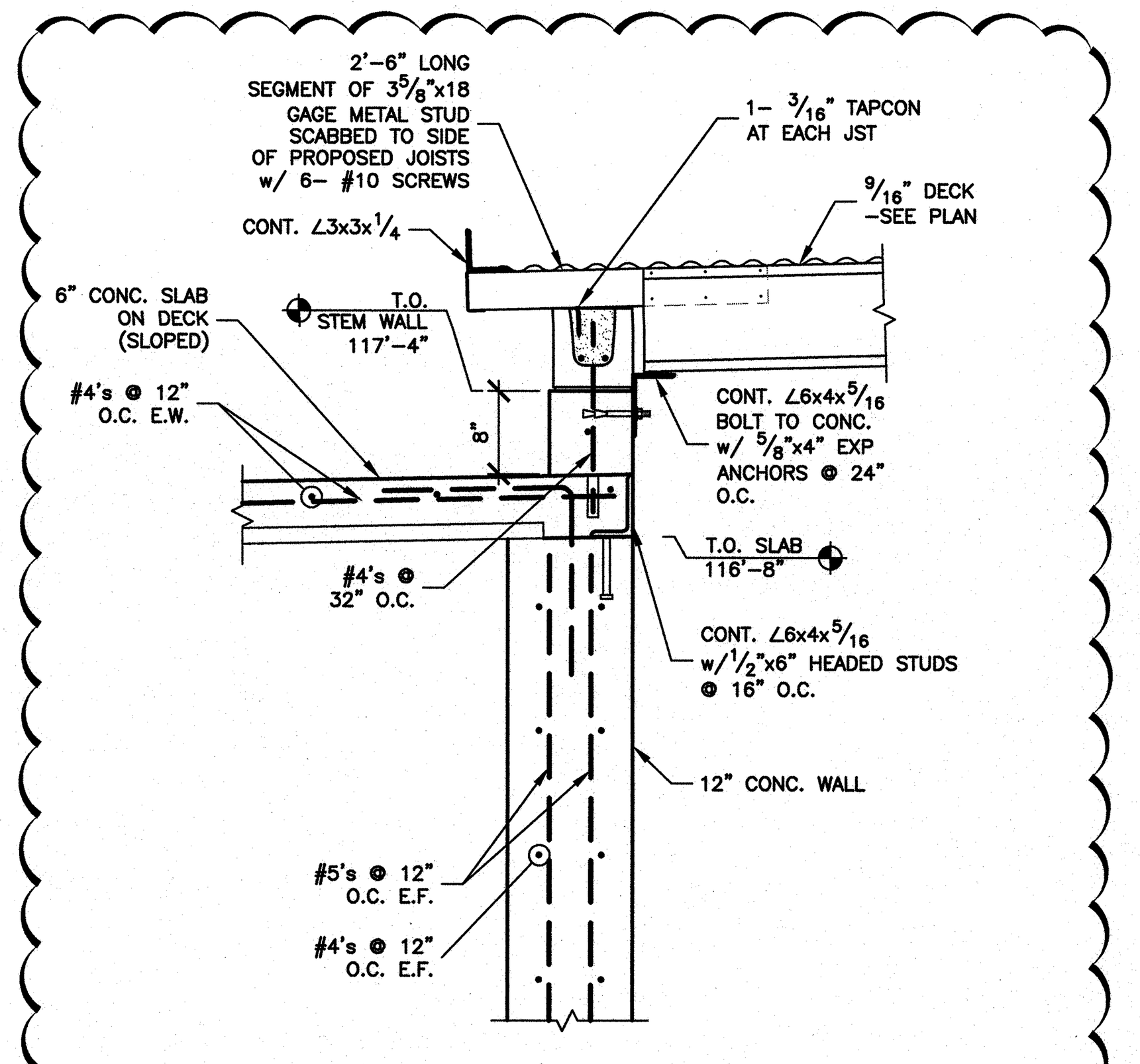
1 SECTION
3/4" = 1'-0"



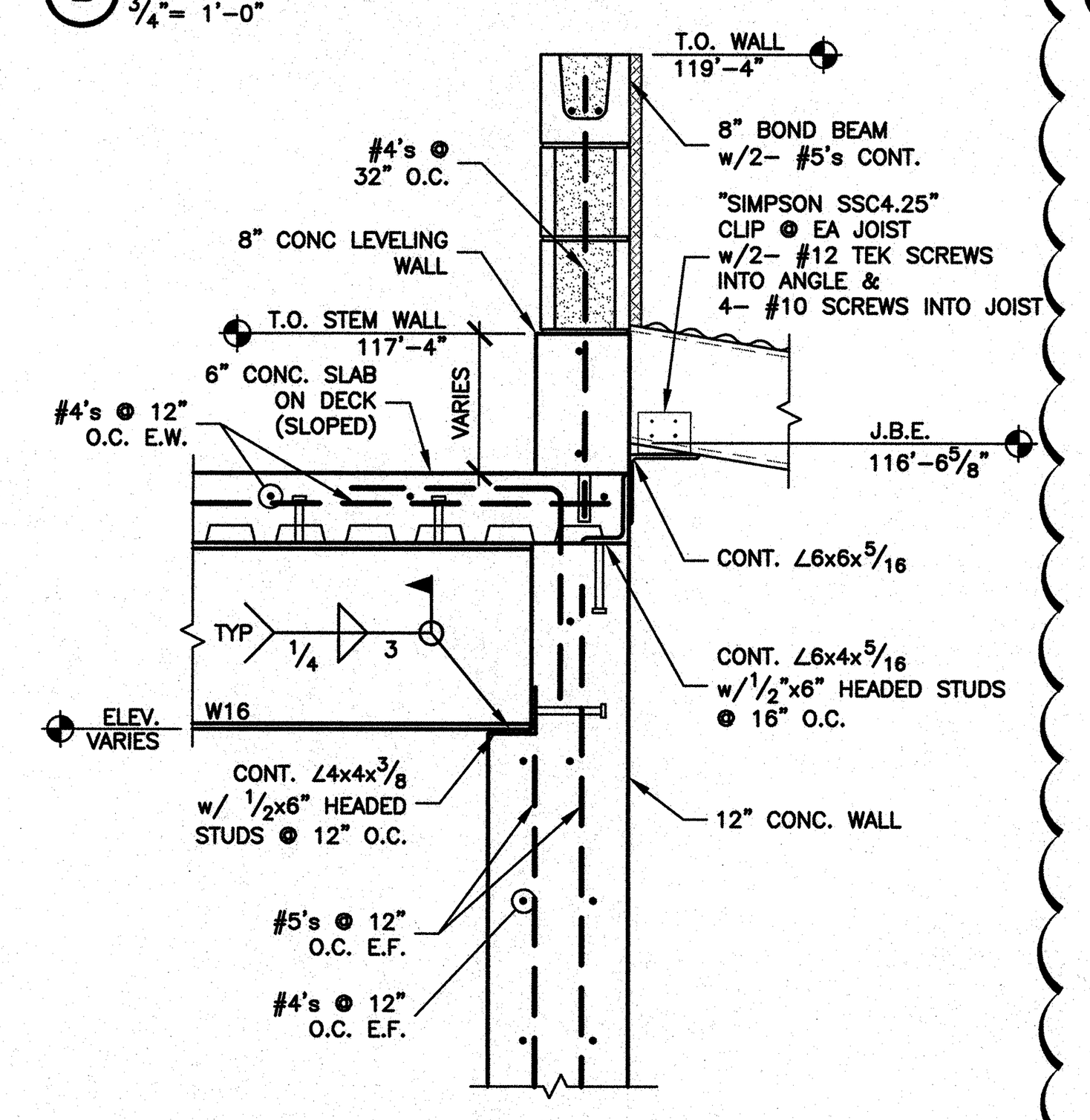
2 SECTION
3/4" = 1'-0"



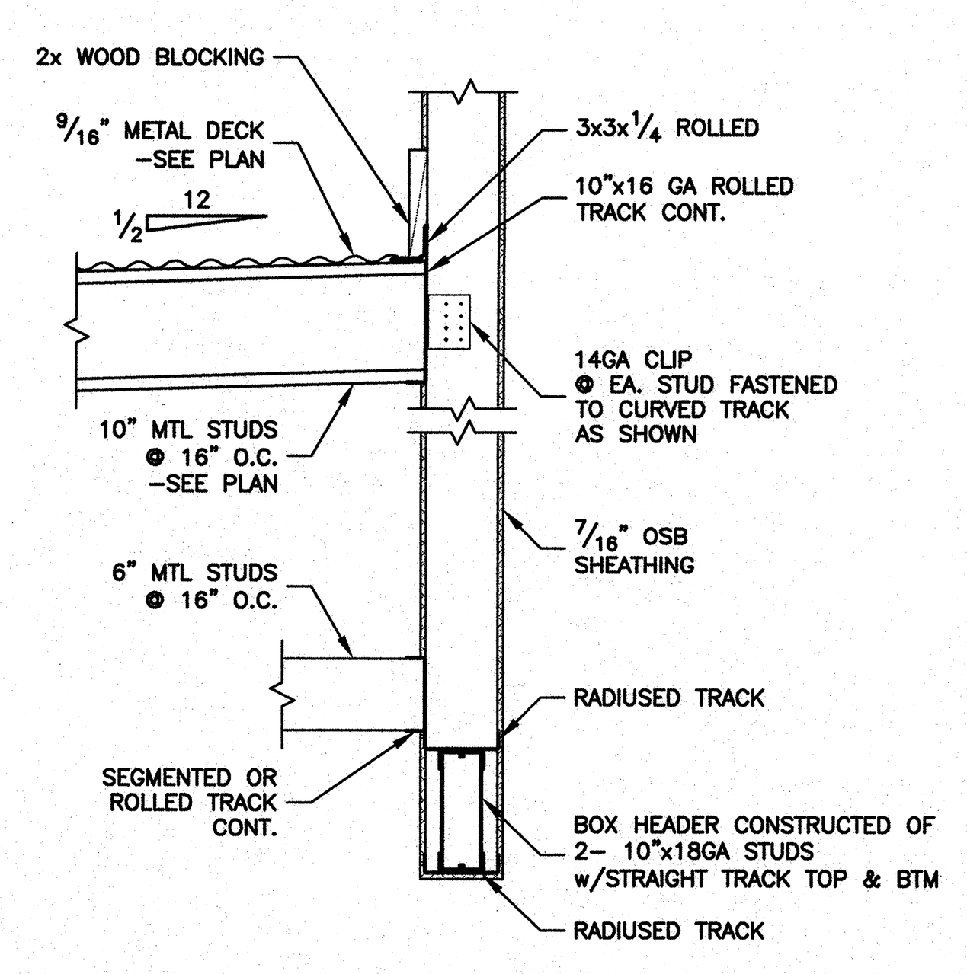
3 SECTION
3/4" = 1'-0"



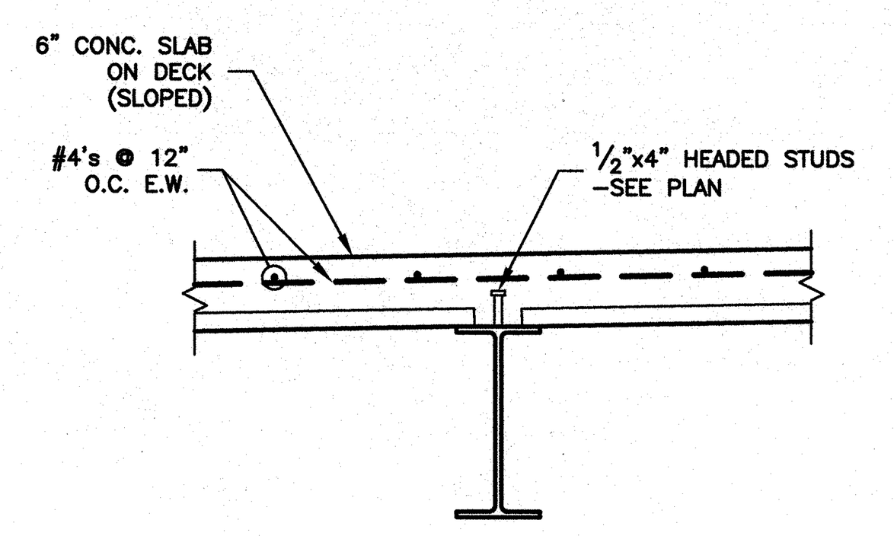
4 SECTION
3/4" = 1'-0"



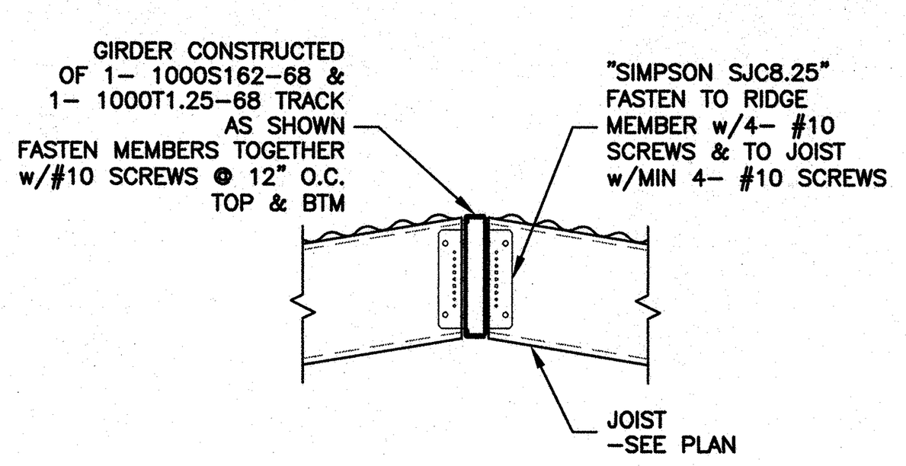
5 SECTION
3/4" = 1'-0"



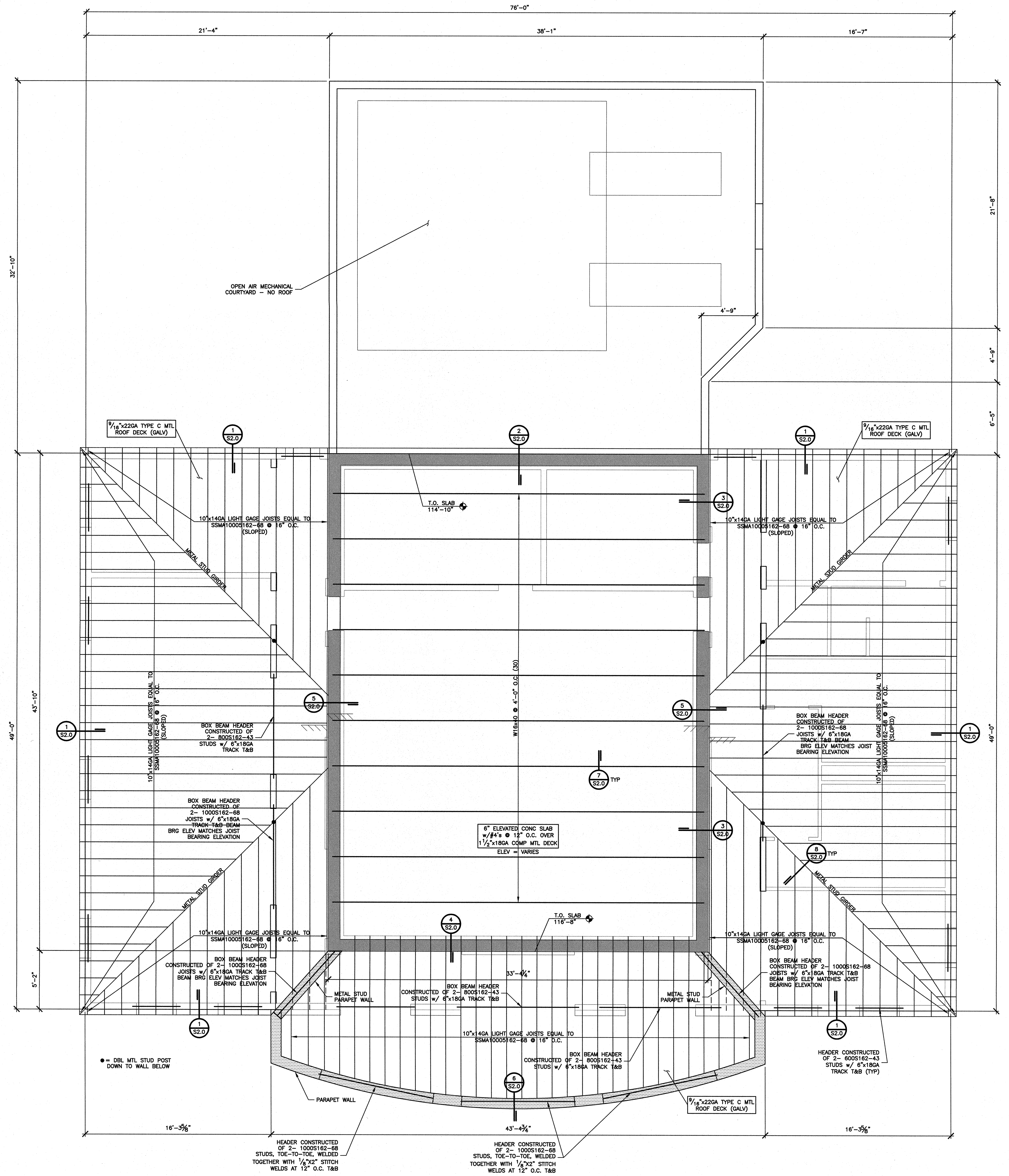
6 SECTION
3/4" = 1'-0"



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



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



ROOF FRAMING PLAN
1/4" = 1'-0"

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11418 J. TRAVIS MILLER 12/2/16
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PARAGOULD, AR

RECORD DRAWINGS

These Record Drawings have been prepared using Change Orders, Field Changes, Addenda, Architect's notes, and the Contractor's 'As-Built' information. The Architect has not field verified all dimensions and conditions and does not guarantee the accuracy of these documents.

2016.10.27

ISSUE DATE	DESCRIPTION
12/2/16	ADDENDUM 3

PROJECT NO. 4533
PROJECT PHASE: Design Development
DRAWN BY: STEPHENS
CHECKED BY: MILLER

FRAMING PLAN & DETAILS

S2.0

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

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

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

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

P. 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.

Q. 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.

R. 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.

S. AN APPROVED TRAP GUARD PRODUCT CONFORMING TO NSF-14, CSAB602-99 AND CSAB79-94) SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.

T. 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.

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

V. 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.

W. 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.

X. 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.

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

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

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

AB. 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.

AC. 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

Symbol	Description
— — —	BELOW GRADE WASTE PIPING
———	ABOVE GRADE WASTE PIPING
— SS —	SANITARY SEWER PIPING
—BW—	BUILDING WASTE AND DRAIN PIPING
—AW—	ACID WASTE PIPING
—GW—	GREASE WASTE PIPING
—OW—	OIL LADENT WASTE PIPING
— SD —	STORM DRAIN PIPING
—RD—	ROOF DRAIN PIPING
—OD—	OVERFLOW ROOF DRAIN PIPING
— — — —	VENT PIPING
— - AV - —	ACID VENT PIPING
— FPM —	FIRE SPRINKLER MAIN PIPING
	COLD WATER SUPPLY PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
---DI---	DEIONIZED COLD WATER SUPPLY PIPING
FD	FRENCH DRAIN PIPING
—G—	NATURAL GAS PIPING
—LPG—	PROPANE GAS PIPING
—CA—	COMPRESSED AIR PIPING
—A—	MEDICAL COMPRESSED AIR PIPING
—O—	OXYGEN PIPING
—V—	VACUUM PIPING
—N—	NITROGEN GAS PIPING
—NO—	NITROUS OXIDE 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
	NEW PLUMBING EQUIPMENT
	NEW PLUMBING FIXTURE PROVIDED BY THE CONTRACTOR
	CLEANOUT AT THE END OF PIPE
	FINISH FLOOR CLEANOUT
	CLEANOUT TO (FINISH) GRADE (COTG)
3"V.T.R.	VENT THROUGH THE ROOF
	CONNECT TO THE EXISTING
	NEW PLUMBING EQUIPMENT
	EXISTING PLUMBING EQUIPMENT

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,	KOHLER K-7516	2"	1-1/2"	1/2"	1/2"	4
MB	STONE MOP BASIN	FIAT	MSB-24x24	HANGER, GUARD, HOSE	FIAT #830-AA	3"	1-1/2"	1/2"	1/2"	3
SHW	SHOWER	AMERICAN STANDARD	3636S1.ST.020	BARS, CURTAIN, HEAD	ZURN Z7300-SS-MT-WF	2"	1-1/2"	1/2"	1/2"	8
IMB	ICE MAKER VALVE BOX	GUY GRAY	BIM875QT	QUARTER TURN VALVE	-	-	-	-	1/2"	6
SK	DOUBLE COMPARTMENT STAINLESS STEEL SINK	ELKAY		GARBAGE	ELKAY LK1000	2"	1-1/2"	1/2"	1/2"	7
DF	ADA COMPLIANT WATER COOLER	ELKAY	EZSTL8LC	WALL HANGING KIT	-	2"	1-1/2"	-	1/2"	2
HY	FREEZE-PROOF ANTI-SIPHON WALL HYDRANT	ZURN	Z1321-WC	ANTI-SIPHON, VACUUM BREAKER	-	-	-	-	3/4"	5
FD	CAST-IRON BODY FLOOR DRAIN	ZURN	ZN-Z415B	-	-	3"	1-1/2"	-	-	-
COTG	CLEANOUT TO GRADE	ZURN	Z1474	-	-	4"	-	-	-	-
TEA	THERMAL EXPANSION ABSORBER	AMTROL	ST-12	-	-	-	-	-	-	-
DN	NICKEL BRONZE BODY DOWNSPOUT NOZZLE	ZURN	Z199	-	-	-	-	-	-	2, 9
OD	CAST-IRON BODY & DOME ROOF OVERFLOW DRAIN	ZURN	ZC-Z121-C-89	CLAMP 2" HIGH EXTERNAL WATER DAM	-	-	-	-	-	9
RD	CAST-IRON BODY & DOME ROOF DRAIN	ZURN	ZC-Z121-C	DECK CLAMP	-	-	-	-	-	9

ACCESSORIES:

AERATOR - 0.5 GPM VANDAL-RESISTANT STRAINER
BARS - SHOWER CURTAIN AND ADA COMPLIANT GRAB BARS
CURTAIN - ANTIBACTERIAL CLOTH SHOWER CURTAIN
GARBAGE - GARBAGE DISPOSAL EQUAL TO IN-SINK-ERATOR BADGER 5
HANGER - FIAT MOP HANGER #889-CC
HEAD - CHROME PLATED SHOWER HEAD AND ESCUTCHEON
HOSE - FIAT HOSE AND HOSE BRACKET #832-AA
GUARD - FIAT STAINLESS STEEL WALL GUARD #MSG2424
SH-SEAT - REMOVABLE FOLD-UP SEAT
SEAT - ZURN #Z5956SS-EL (HEAVY DUTY) OPEN FRONT WHITE SEAT

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. SEAT AND VALVE ORIENTATION PER THE PLAN.
9. REFER TO THE PLAN FOR THE SIZE.

PUMP SCHEDULE

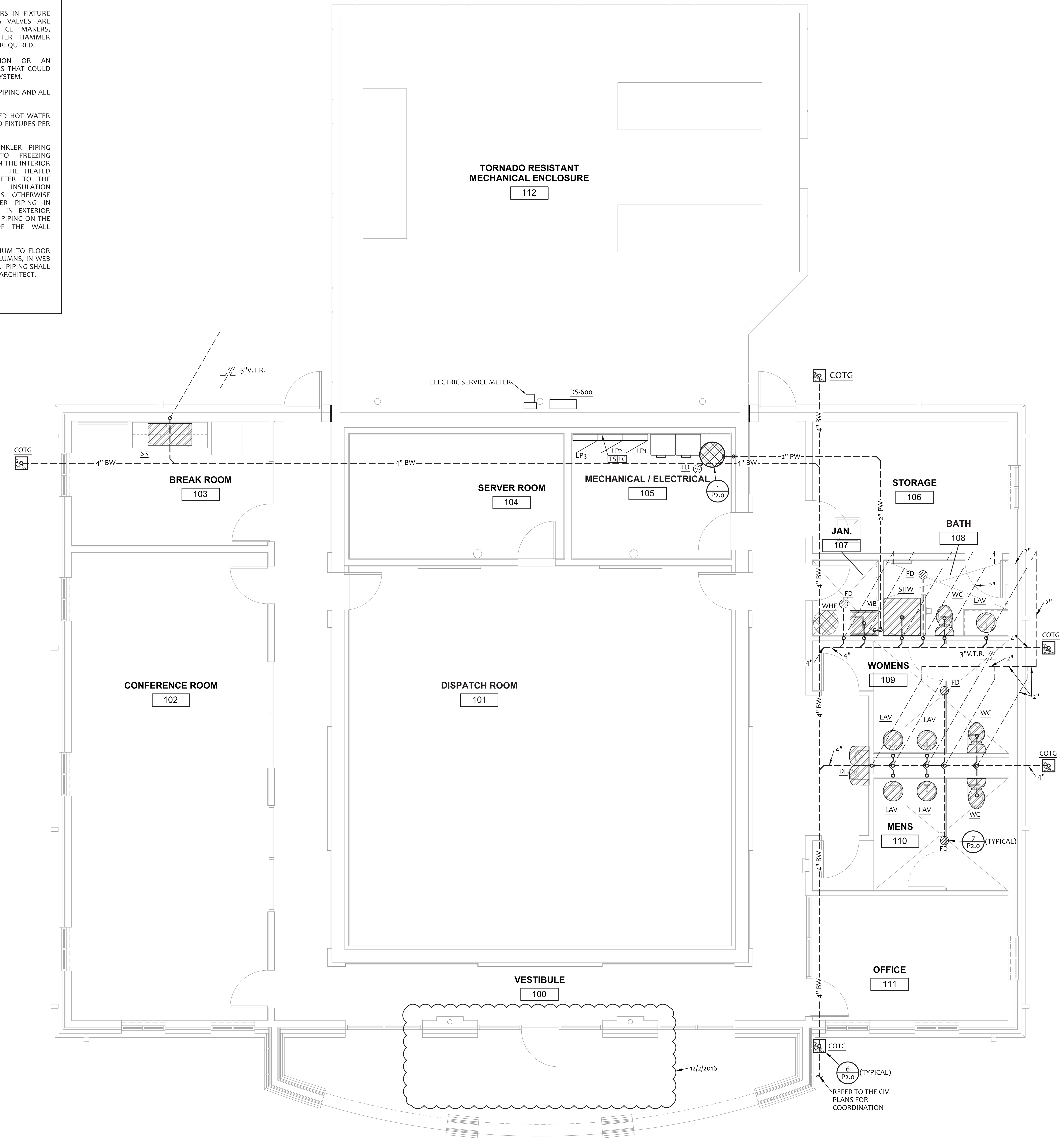
MARK	MANUFACTURER	MODEL	WATER FLOW RATE GPM	TOTAL HEAD FT. OF H_2O	PUMP RPM	MOTOR BHP	MOTOR MHP	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	REMARKS
P-1	BELL & GOSSETT	e3-6V/B_XRC	1	9	-	-	28W	120/1	<1	20	ECM,TH,TM	1

ACCESSORIES:

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

REMARKS:

1. CONNECTIONS AS REQUIRED BY PIPING TYPE..



1 WASTE PIPING PLAN

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.15268 BRADEN S COX
12-2-16
Braden S. Cox
15268

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EMERGENCY DISPATCH CENTER
24 SOUTHPOINNT DRIVE PARAGOULD, AR

ISSUE / DATE	OCTOBER 27, 2016
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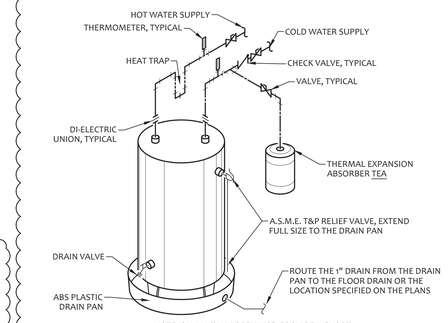
PROJECT NO. 16548.00
PROJECT PHASE Construction Documents
DRAWN BY: BB CHECKED BY: BSC

WASTE & VENT PIPING PLAN

P1.0

12/2/2016



4 WATER HEATER DETAIL
NOT TO SCALE

ELECTRIC WATER HEATER SCHEDULE

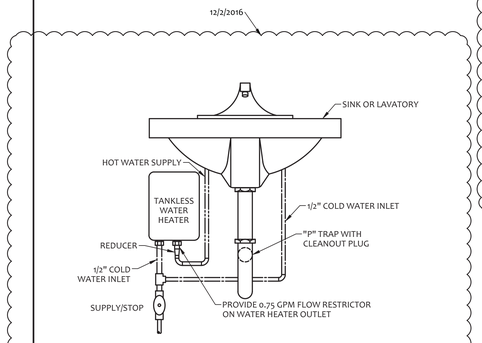
MARK	MANUFACTURER	MODEL	INPUT KW	VOLT/ PHASE	RECOVERY @ 100° F. RISE GPH	STORAGE CAPACITY GALLONS	REMARKS
WHE	AO SMITH	DEN-40	12	240/1	36	40	1, 2
WHI	EEMAX	EX35T	3.5	240/1	18" @ 0.5 GPM	-	3

12/2/2016

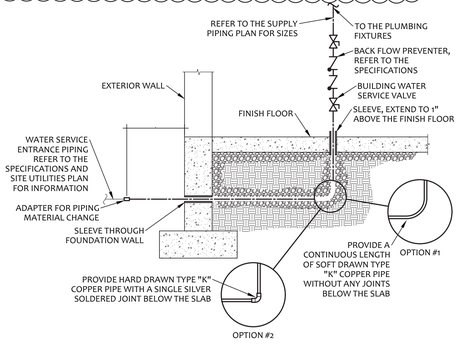
REMARKS:

1. 140 DEGREE F. TANK STORAGE TEMPERATURE.
2. UNIT SHALL BE CONFIGURED FOR SIMULTANEOUS ELEMENT OPERATION.
3. INSTANTANEOUS HEATER MOUNTED BELOW THE SINK.

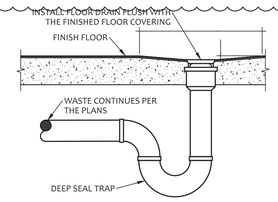
12/2/2016



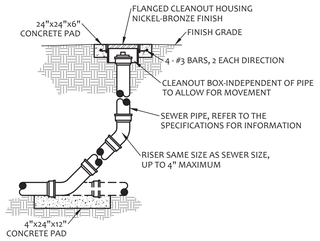
8 TANKLESS WATER HEATER DETAIL
NOT TO SCALE



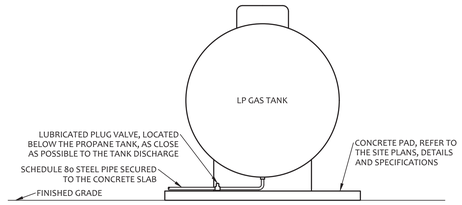
3 WATER SERVICE ENTRANCE
NOT TO SCALE



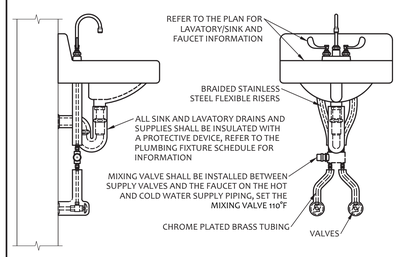
7 FLOOR DRAIN DETAIL
NOT TO SCALE



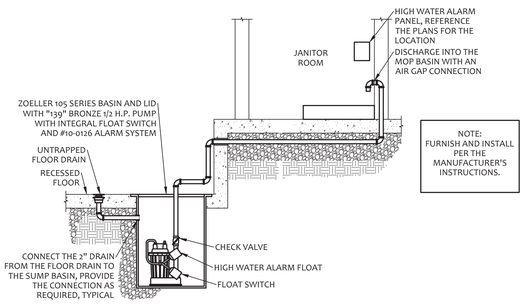
6 CLEANOUT-TO-GRADE DETAIL
NOT TO SCALE



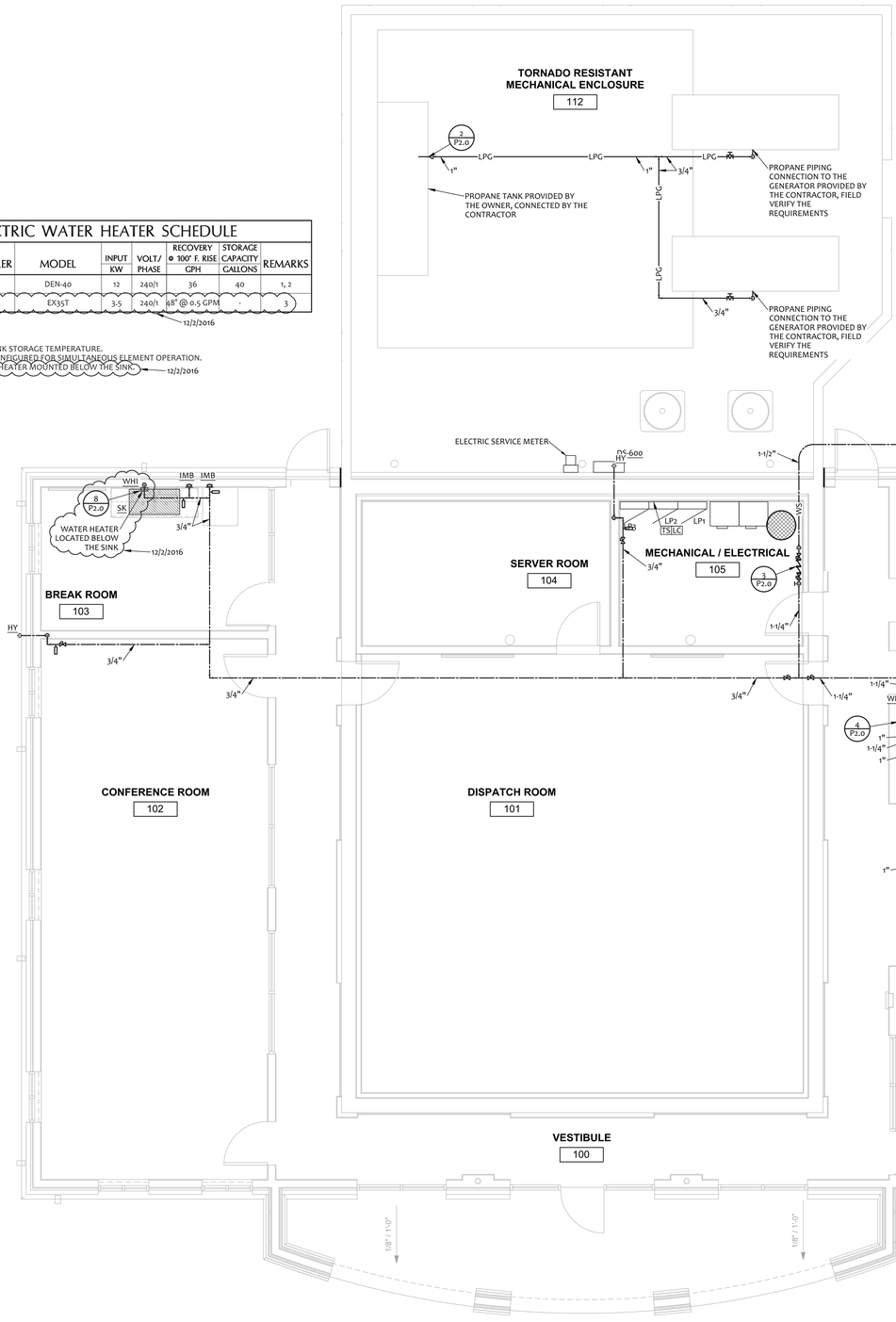
2 LP GAS STORAGE TANK AND PRESSURE REGULATOR DETAIL
NOT TO SCALE



5 LAVATORY INSTALLATION DETAIL
NOT TO SCALE



1 SUMP PUMP
NOT TO SCALE



GAS LOAD

EQUIPMENT	MBH
GENERATOR #1	1782.5
GENERATOR #2	1782.5
TOTAL	3565

PIPE SIZING BASED ON INTERNATIONAL FUEL GAS CODE
GAS PIPING SIZED USING LONGEST RUN OF PIPING OF 50'-0", AN INLET PRESSURE DROP OF 1 PSIG AND A SPECIFIC GRAVITY OF 1.5.

1 SUPPLY PIPING PLAN
0 1' 2' 4' 6'

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ARKANSAS REGISTERED PROFESSIONAL ENGINEER Braden S. Cox No. 15268 12-31-16

Braden S. Cox 15268

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EMERGENCY DISPATCH CENTER
24 SOUTHPOINNT DRIVE PARAGOULD, AR

ISSUE / DATE	OCTOBER 27, 2016
DEC 2, 2016	ADDENDUM #3

DATE	DESCRIPTION

PROJECT NO.: 16548.00
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CHECKED BY: BSC

SUPPLY PIPING PLAN

P2.0

KEY NOTES

1. REFRIGERANT LINE SETS ROUTED TO THE INDOOR COIL, FIELD VERIFY THE ROUTE.
2. ROUTE CONDENSATE DRAIN DOWN TO THE CONCRETE FLOOR, OVER TO THE FLOOR DRAIN AND TURN DOWN.

MECHANICAL SYMBOLS LEGEND

NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN.

- SUPPLY AIR CEILING GRILLE
- RETURN AIR CEILING GRILLE
- EXHAUST AIR CEILING GRILLE
- MECHANICAL EQUIPMENT
- 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
- SLOPING IN DIRECTION OF AIR FLOW (UP/DN)
- FLEXIBLE DUCT (MAX. 5'-0" LONG)
- SIDEWALL SUPPLY/RETURN GRILLES
- LOUVER
- MANUAL OPPOSED BLADE DAMPER
- MOTORIZED OPPOSED BLADE DAMPER (M / M / OR)
- 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)
- SPLITTER DAMPER
- AIR EXTRACTOR
- DAMPER (IF SHOWN) CONICAL/BELLMOUTH TEE
- DAMPER (IF SHOWN) HIGH EFFICIENCY TAKE-OFF
- 45° DEG." LATERAL
- DAMPER (IF SHOWN) 45 DEG." ENTRY TAP
- CONICAL 45° DEG. LATERAL
- FIRE DAMPER
- SMOKE DAMPER
- FIRE SMOKE DAMPER
- DUCT ACCESS DOOR, VERTICAL OR HORIZONTAL (A.D.) ON THE BOTTOM OF THE DUCT
- WALL ACCESS PANEL (A.P.)
- CEILING ACCESS PANEL (A.P.)
- H — HUMIDISTAT
- T — THERMOSTAT
- T — THERMOSTAT WITH LOCKING COVER
- T_A — ADJUSTABLE ROOM SENSOR
- T_N — NON-ADJUSTABLE ROOM SENSOR
- C — CO_2 SENSOR

MECHANICAL GENERAL NOTES

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

O. EXHAUST DUCT SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.

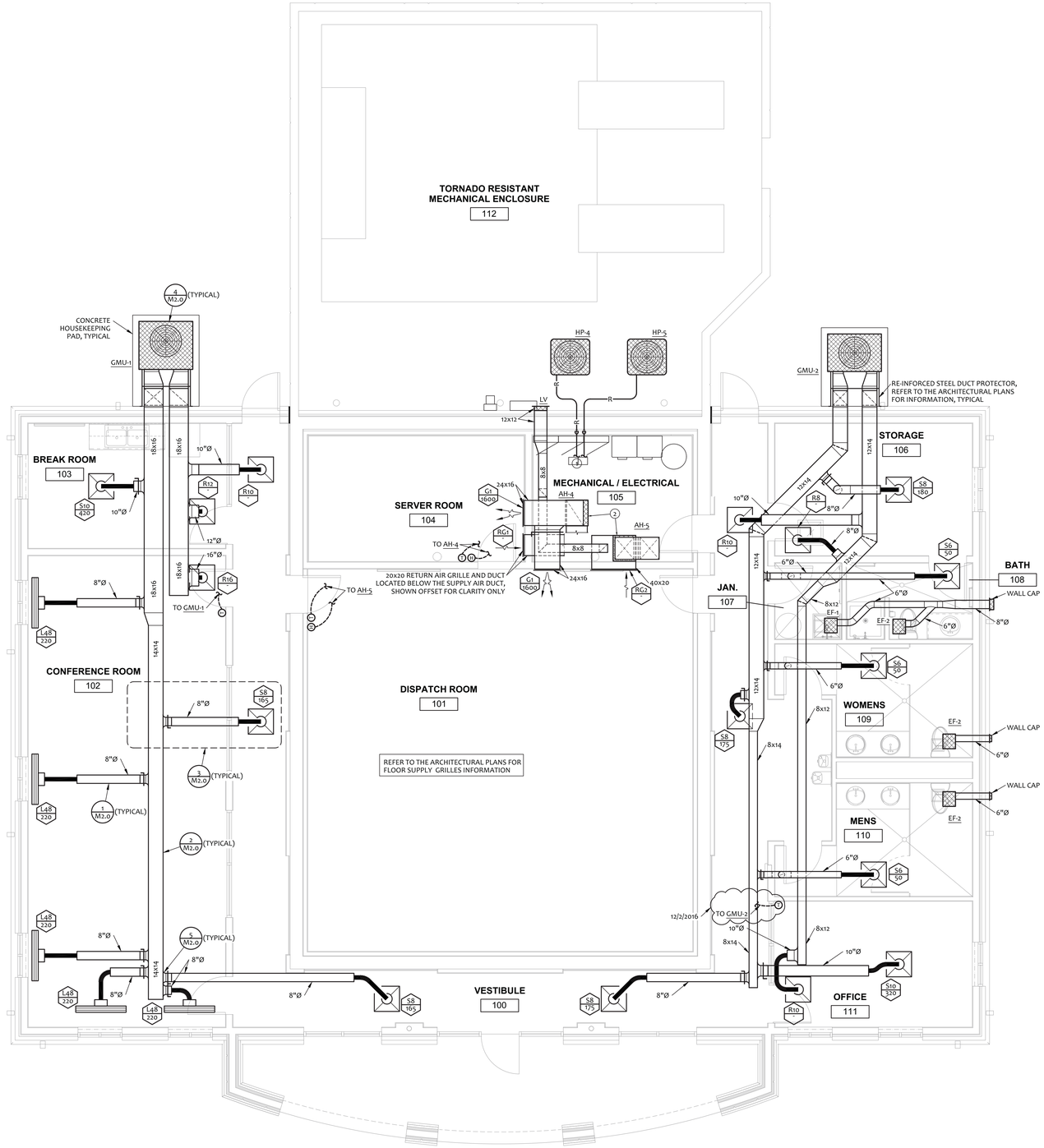
P. INSULATE AND SECURE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH 1" THICK FIBERGLASS DUCT WRAP.

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



1 MECHANICAL PLAN

0 1' 2' 4' 6'

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HVAC PLAN

M1.0

KEY NOTES

1. HOMERUN CIRCUITRY ROUTED THROUGH LIGHTING CONTACTOR LC.

ELECTRICAL SYMBOLS LEGEND

NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN

- LAY-IN FLUORESCENT LIGHT FIXTURE
  - A=FIXTURE TYPE
  - a=SWITCH LABEL (IF USED)
- FIXTURE ON EMERGENCY POWER (PART OR ALL)
- LINEAR FIXTURE
- LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EXIT LIGHT (CEILING MOUNTED)
- 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)
- ( ) — FUSED DISCONNECT SWITCH (SWITCH/FUSE RATINGS)
- MS-? — 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
- 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

LIGHT FIXTURE SCHEDULE

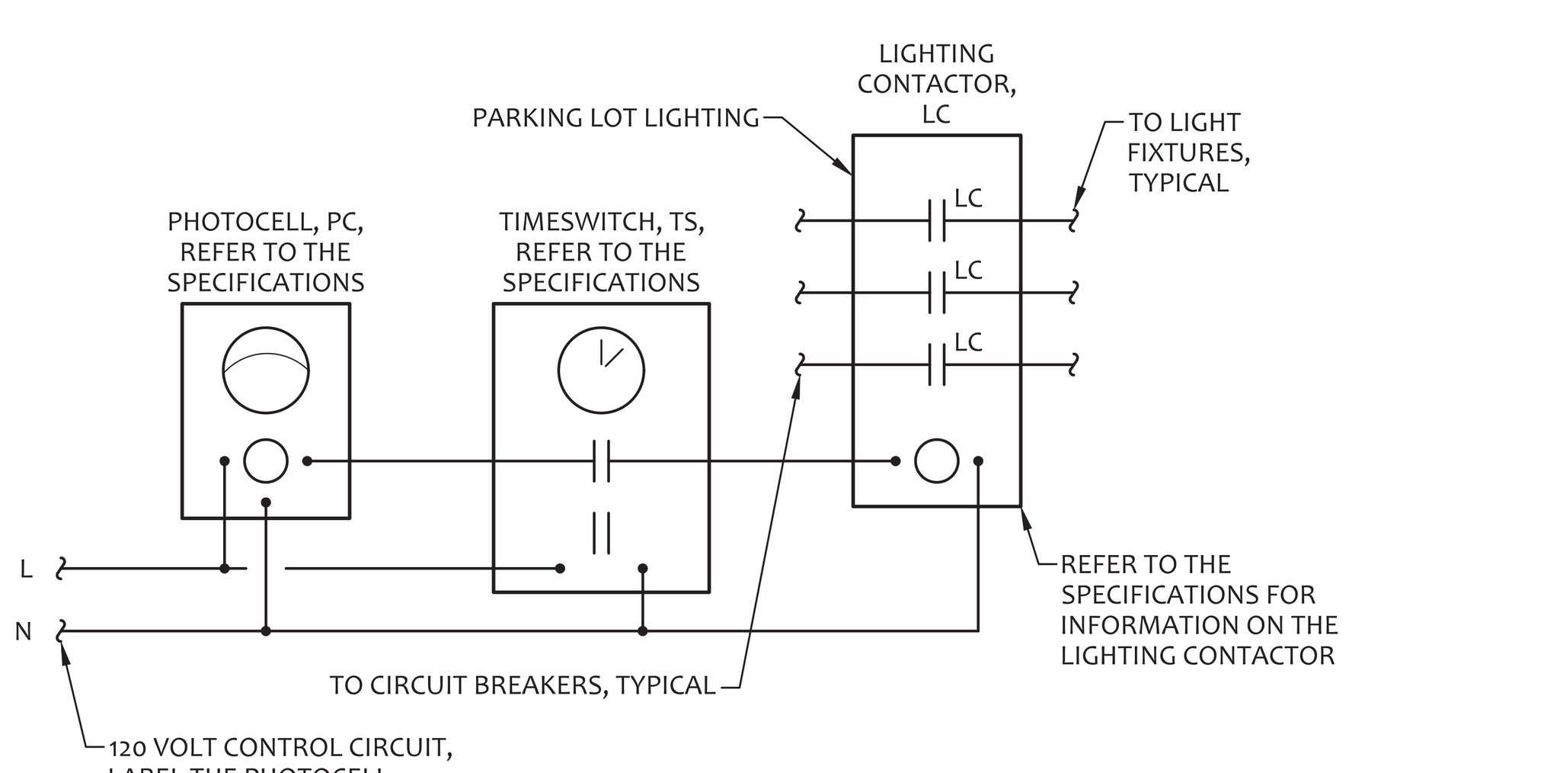
MARK	MANUFACTURER	MODEL	DESCRIPTION	FINISH	MOUNTING	LAMP	VOLTAGE	REMARKS
A	CREE	ZR22-32L-40K-10V	2'x2' LED TROFFER	WHITE	RECESSED	3,200 LUMEN 35W, 4,000K LED	120	-
B	CREE	LS4-40L-40K	LED SURFACE AMBIENT LUMINAIRE	WHITE	SURFACE	4,000 LUMEN 44W, 4,000K LED	120	-
C	WILLIAMS	LX4UD-12-L8/840U-S-A-ACF/96-DIM-120	r' CONTINUOUS SUSPENDED	WHITE	SUSPENDED	9,600 LUMEN 93W, 4,000K LED	120	1,3
C2	WILLIAMS	AX2D-8-L66/840-F/J/S-DIM-120	8' CONTINUOUS SUSPENDED	WHITE	SUSPENDED	6,600 LIMEN 83W, 4,000K LED	120	2,3
D	TERON LIGHTING	VCY48-L24-120-UDL-TE350-SM-40K	LINEAR ARCHITECTURAL VANITY	SILVER	SURFACE/WALL	2,916 LUMEN 28W, 4,000K LED	120	4
F	AXIS	WBWLED-B3-MF-500-80-40-S-4-W-120-D-1	WALL DIRECT LED	WHITE	SURFACE/WALL	2,000 LUMEN 22W, 4,000K LED	120	4
CAN	WILLIAMS	L60-L30C/840-SG/M-MWT-DIM-120	6" ROUND LED DOWNLIGHT	WHITE	RECESSED	3,000 LUMEN 36W, 4,000K LED	120	3
ECAN	WILLIAMS	L60-L40C/840-SG/M-MWT-DRV-120	6" DAMP LOCATION RATED ROUND LED DOWNLIGHT	WHITE	RECESSED	4,000 LUMEN 39W, 4,000K LED	120	3
WALL	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	4
SL3	COOPER LIGHTING	GLEON-AF-04-LED-E1-SL3-BZ	ARCHITECTURAL LED POLE MOUNTED SITE FIXTURE	BRONZE	POLE	24,013 LUMEN 225W, 5,000K LED	120	5
SL4	COOPER LIGHTING	GLEON-AF-04-LED-E1-SL4-BZ	ARCHITECTURAL LED POLE MOUNTED SITE FIXTURE	BRONZE	POLE	22,816 LUMEN 225W, 5,000K LED	120	5
X1	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.
E. ALL INTERIOR FIXTURES SHALL HAVE COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERWISE.

REMARKS:

1. SUSPEND WITH THE BOTTOM OF THE FIXTURE AT 9'-0" ABOVE THE FINISH FLOOR.
2. SUSPEND WITH THE BOTTOM OF THE FIXTURE AT 9'-3" ABOVE THE FINISH FLOOR.
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 DARK BRONZE POLE.



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

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. 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.

E. SINGLE PHASE BRANCH CIRCUITS SHALL NOT SHARE NEUTRALS.

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

G. 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.

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

I. THE CONTRACTOR SHALL VERIFY THE POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT 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.

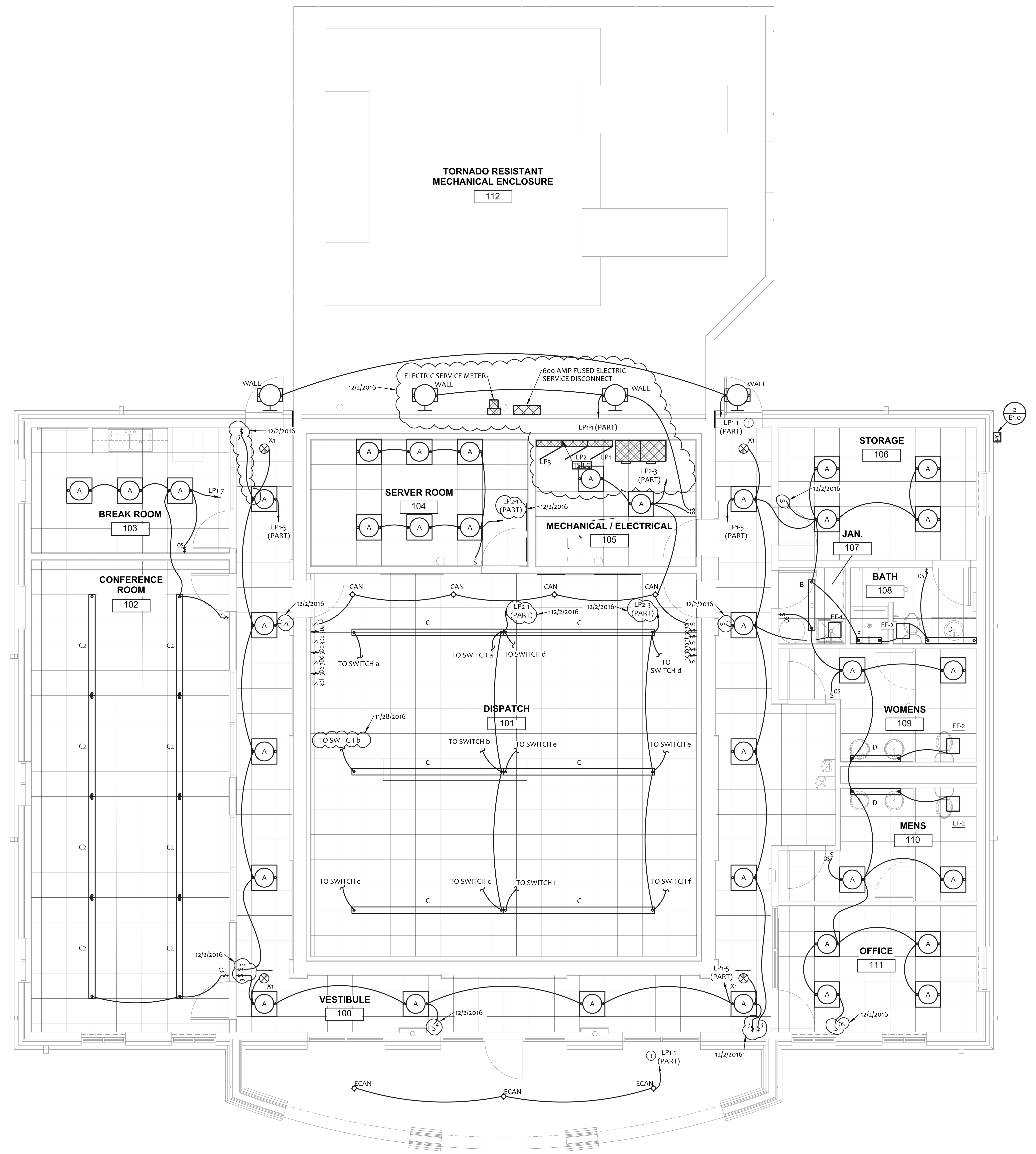
J. ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE, WHERE CONDITIONS REQUIRE EXPOSED ROUTING, ROUTE CONDUITS IN A NEAT MANNER PARALLEL WITH THE BUILDING LINES AND AS HIGH AS POSSIBLE.

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

L. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR/GROUND MOUNTED EQUIPMENT. PADS SHALL BE 6" LARGER THAN THE EQUIPMENT, REFER TO THE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

M. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.

N. 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.



1 LIGHTING PLAN

0 1' 2' 4' 6'

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
12-2-16
Braden S. Cox
15268

GASKIN HILL NORCROSS CERTIFICATE OF AUTHORIZATION ghn architects/engineers COA 1078 ARKANSAS — ENGINEER

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
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EMERGENCY DISPATCH CENTER

24 SOUTHPOINNT DRIVE PARAGOULD, AR

ISSUE / DATE	OCTOBER 27, 2016
DEC 2, 2016	ADDENDUM #3
DATE	DESCRIPTION

PROJECT NO. 16548.00

PROJECT PHASE Construction Documents

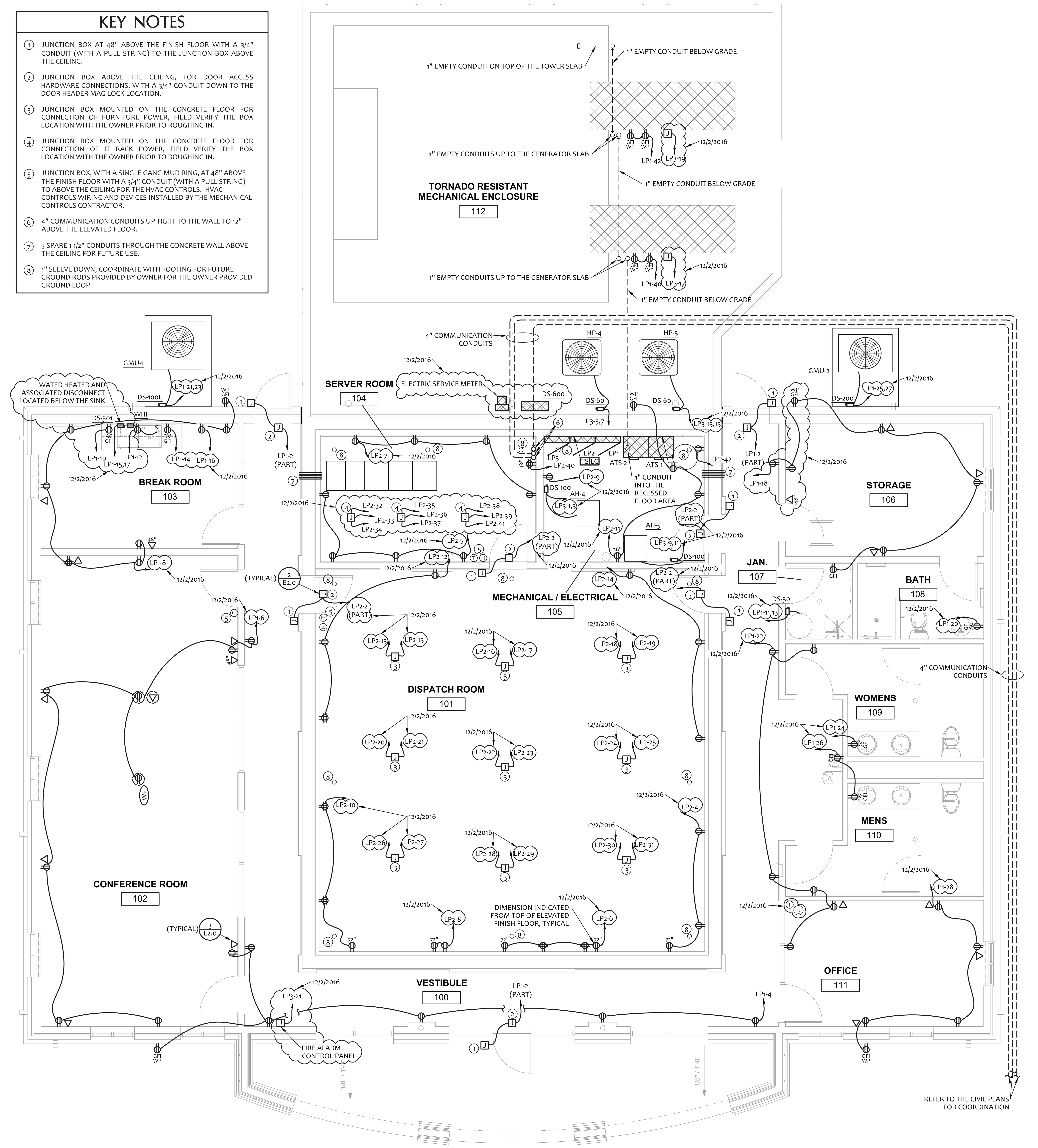
DRAWN BY: BB CHECKED BY: BSC

LIGHTING PLAN

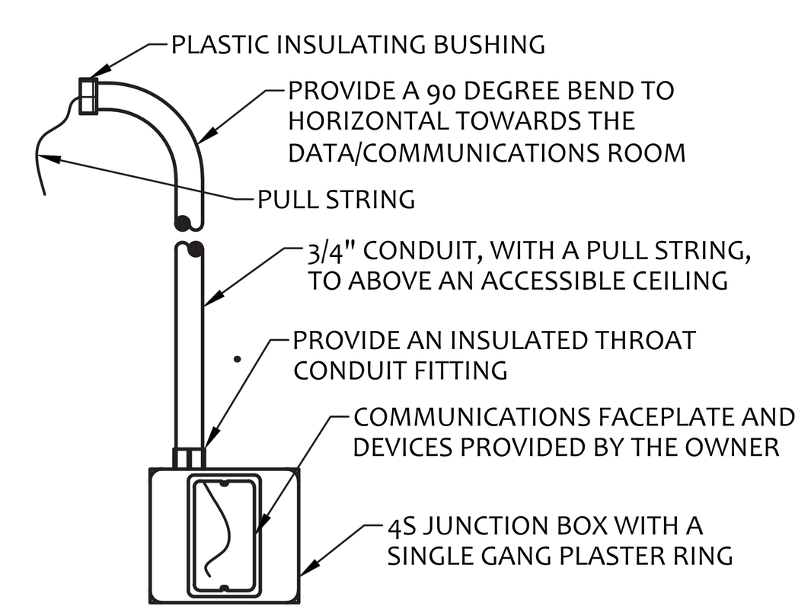
E1.0

KEY NOTES

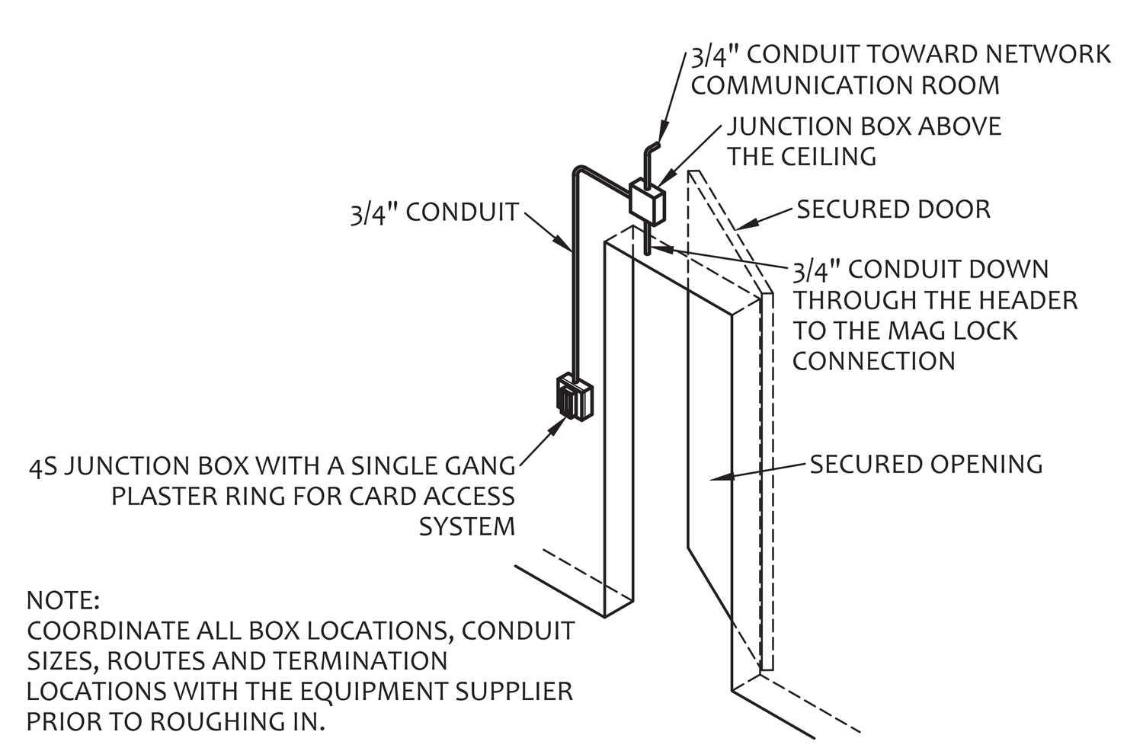
1. JUNCTION BOX AT 48" ABOVE THE FINISH FLOOR WITH A 3/4" CONDUIT (WITH A PULL STRING) TO THE JUNCTION BOX ABOVE THE CEILING.
2. JUNCTION BOX ABOVE THE CEILING, FOR DOOR ACCESS HARDWARE CONNECTIONS, WITH A 3/4" CONDUIT DOWN TO THE DOOR HEADER MAG LOCK LOCATION.
3. JUNCTION BOX MOUNTED ON THE CONCRETE FLOOR FOR CONNECTION OF FURNITURE POWER, FIELD VERIFY THE BOX LOCATION WITH THE OWNER PRIOR TO ROUGHING IN.
4. JUNCTION BOX MOUNTED ON THE CONCRETE FLOOR FOR CONNECTION OF IT RACK POWER, FIELD VERIFY THE BOX LOCATION WITH THE OWNER PRIOR TO ROUGHING IN.
5. JUNCTION BOX, WITH A SINGLE GANG MUD RING, AT 48" ABOVE THE FINISH FLOOR WITH A 3/4" CONDUIT (WITH A PULL STRING) TO ABOVE THE CEILING FOR THE HVAC CONTROLS. HVAC CONTROLS WIRING AND DEVICES INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.
6. 4" COMMUNICATION CONDUITS UP TIGHT TO THE WALL TO 12" ABOVE THE ELEVATED FLOOR.
7. 5 SPARE 1-1/2" CONDUITS THROUGH THE CONCRETE WALL ABOVE THE CEILING FOR FUTURE USE.
8. 1" SLEEVE DOWN, COORDINATE WITH FOOTING FOR FUTURE GROUND RODS PROVIDED BY OWNER FOR THE OWNER PROVIDED GROUND LOOP.



1 POWER AND DATA PLAN



3 COMMUNICATIONS/ DATA/TV BOX DETAIL
NOT TO SCALE



NOTE:
COORDINATE ALL BOX LOCATIONS, CONDUIT SIZES, ROUTES AND TERMINATION LOCATIONS WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGHING IN.

2 DOOR ACCESS DETAIL
NOT TO SCALE

DISCONNECT SWITCH SCHEDULE

MARK	LOAD		SWITCH			FUSE		NEMA	REMARKS
	EQUIPMENT SERVED	VOLTS	DUTY	AMP	POLES	AMP	TYPE		
DS-30	SQUARE D	240	GENERAL	30	2	-	-	1	-
DS-301	SQUARE D	240	GENERAL	30	2	-	-	1	-
DS-60	SQUARE D	240	GENERAL	60	2	-	-	3R	-
DS-100	SQUARE D	240	GENERAL	100	2	-	-	1	-
DS-100E	SQUARE D	240	GENERAL	100	2	-	-	3R	-
DS-200	SQUARE D	240	GENERAL	200	2	-	-	3R	-
DS-600	SQUARE D	240	GENERAL	600	2	600	LPN-RK	3R	-

12/2/2016

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ETC ENGINEERS & ARCHITECTS, INC.

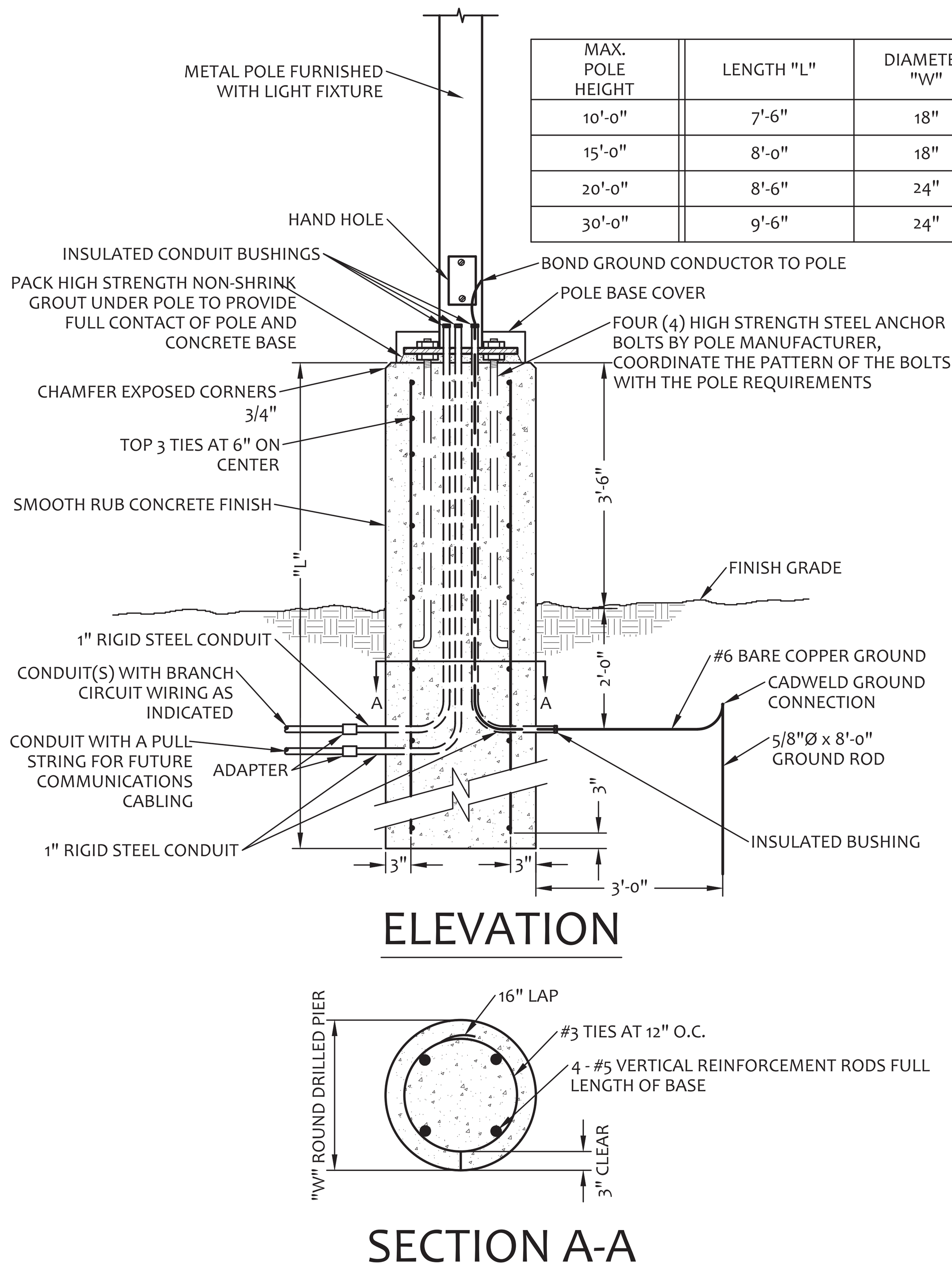
EMERGENCY DISPATCH CENTER
24 SOUTHPOINNT DRIVE PARAGOULD, AR

ISSUE / DATE	
OCTOBER 27, 2016	
DEC 2, 2016	ADDENDUM #3

PROJECT NO. 16548.00
PROJECT PHASE Construction Documents
DRAWN BY: BB CHECKED BY: BSC

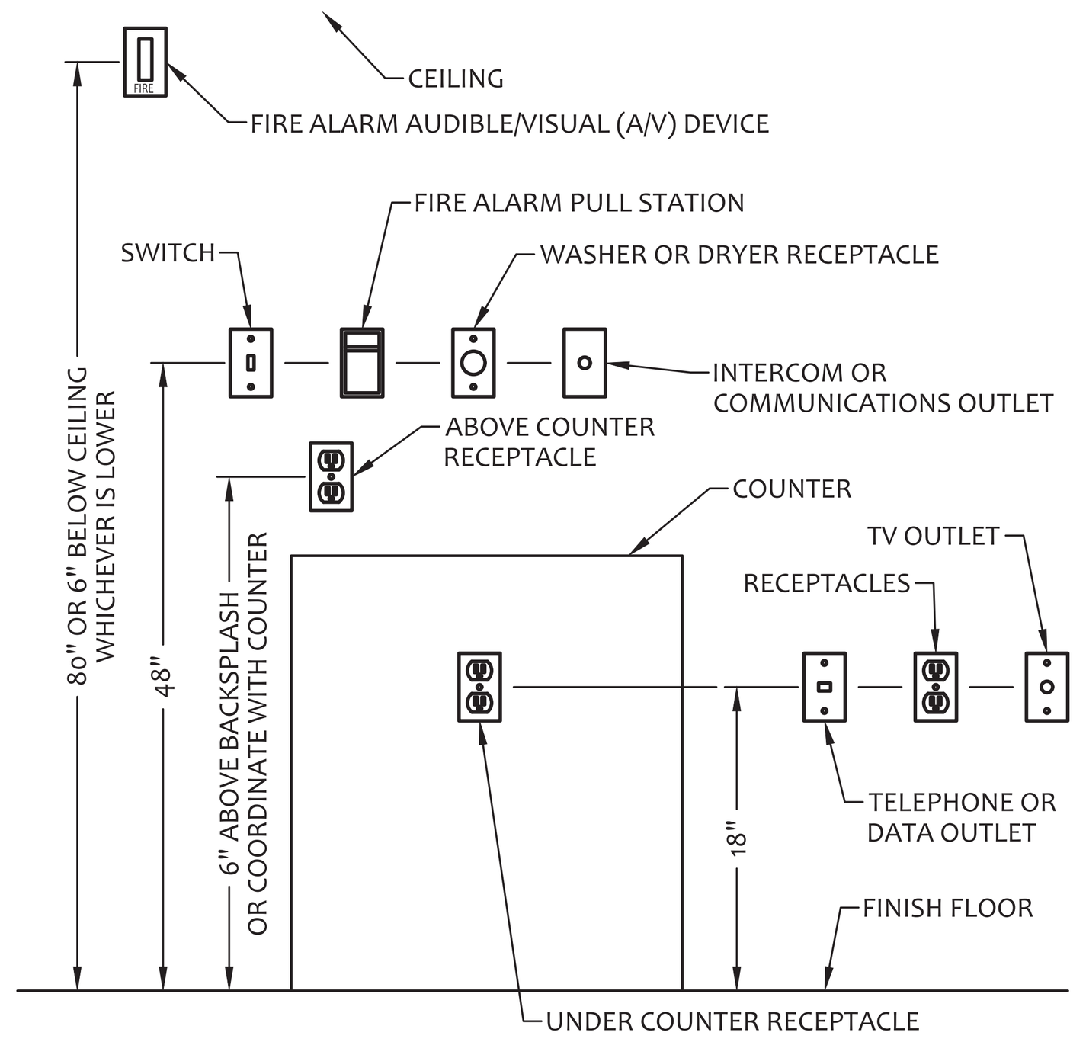
POWER PLAN

E2.0

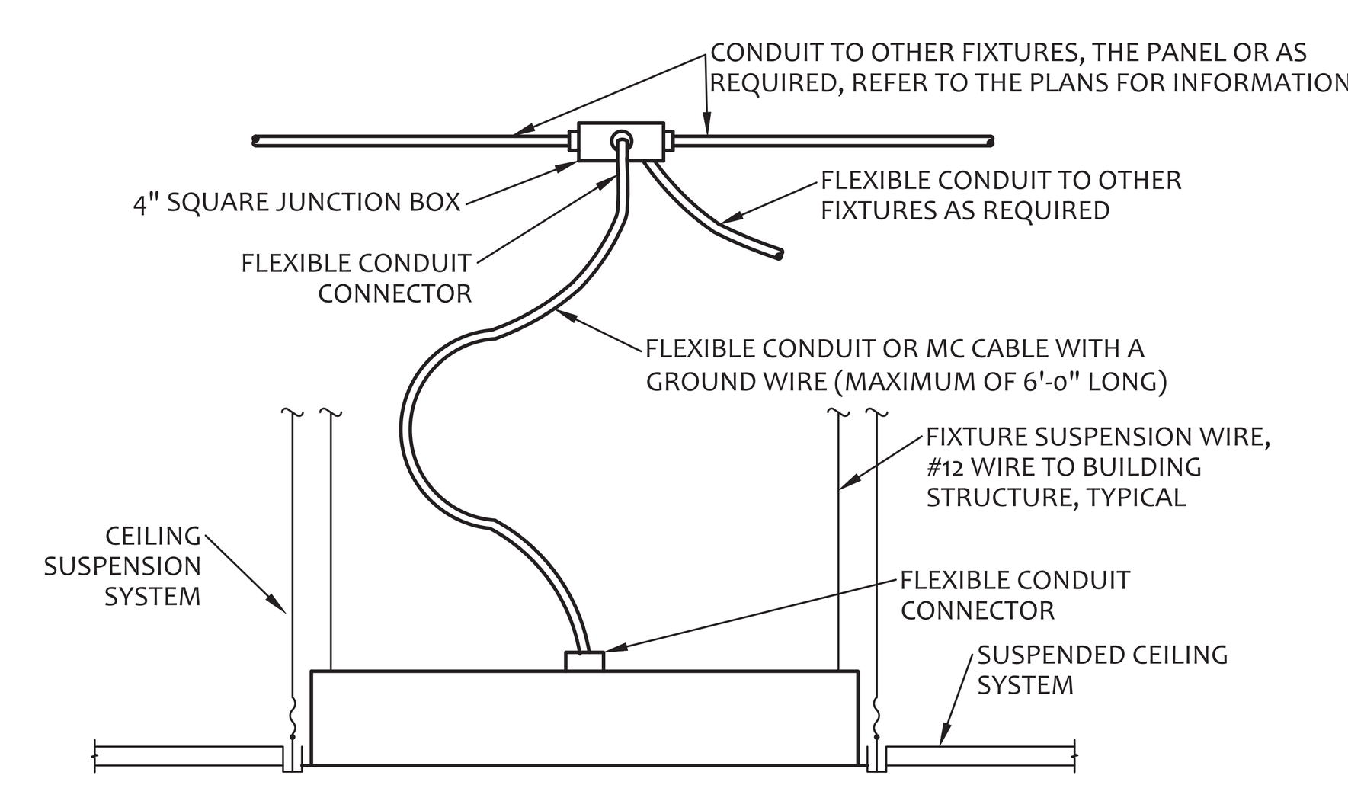


MAX. POLE HEIGHT	LENGTH "L"	DIAMETER "W"
10'-0"	7'-6"	18"
15'-0"	8'-0"	18"
20'-0"	8'-6"	24"
30'-0"	9'-6"	24"

5 ELEVATED POLE BASE FOR UNDERGROUND CONDUIT DETAIL
NOT TO SCALE



3 TYPICAL MOUNTING HEIGHTS
NOT TO SCALE



2 RECESSED FLUORESCENT FIXTURE INSTALLATION DETAIL
NOT TO SCALE

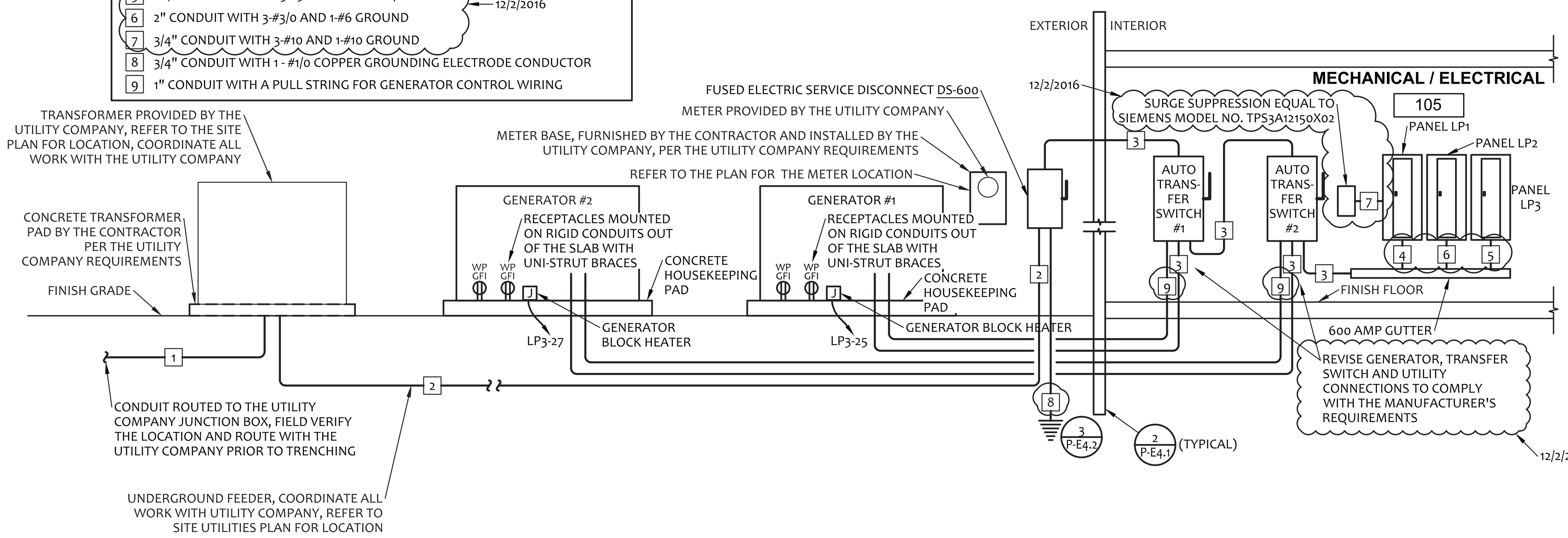
FEEDER SCHEDULE

1. 3 PARALLEL RUNS OF 2" CONDUITS
2. 2 PARALLEL RUNS OF 3" CONDUIT EACH WITH 3-500MCM ALUMINUM CONDUCTORS
3. 2 PARALLEL RUNS OF 3" CONDUIT EACH WITH 3-500MCM ALUMINUM CONDUCTORS AND 1 - #4/0 GROUND
4. 3" CONDUIT WITH 3-350MCM AND 1-#4 GROUND
5. 2-1/2" CONDUIT WITH 3-250MCM AND 1-#4 GROUND
6. 2" CONDUIT WITH 3-#3/0 AND 1-#6 GROUND
7. 3/4" CONDUIT WITH 3-#10 AND 1-#10 GROUND
8. 3/4" CONDUIT WITH 1 - #1/0 COPPER GROUNDING ELECTRODE CONDUCTOR
9. 1" CONDUIT WITH A PULL STRING FOR GENERATOR CONTROL WIRING

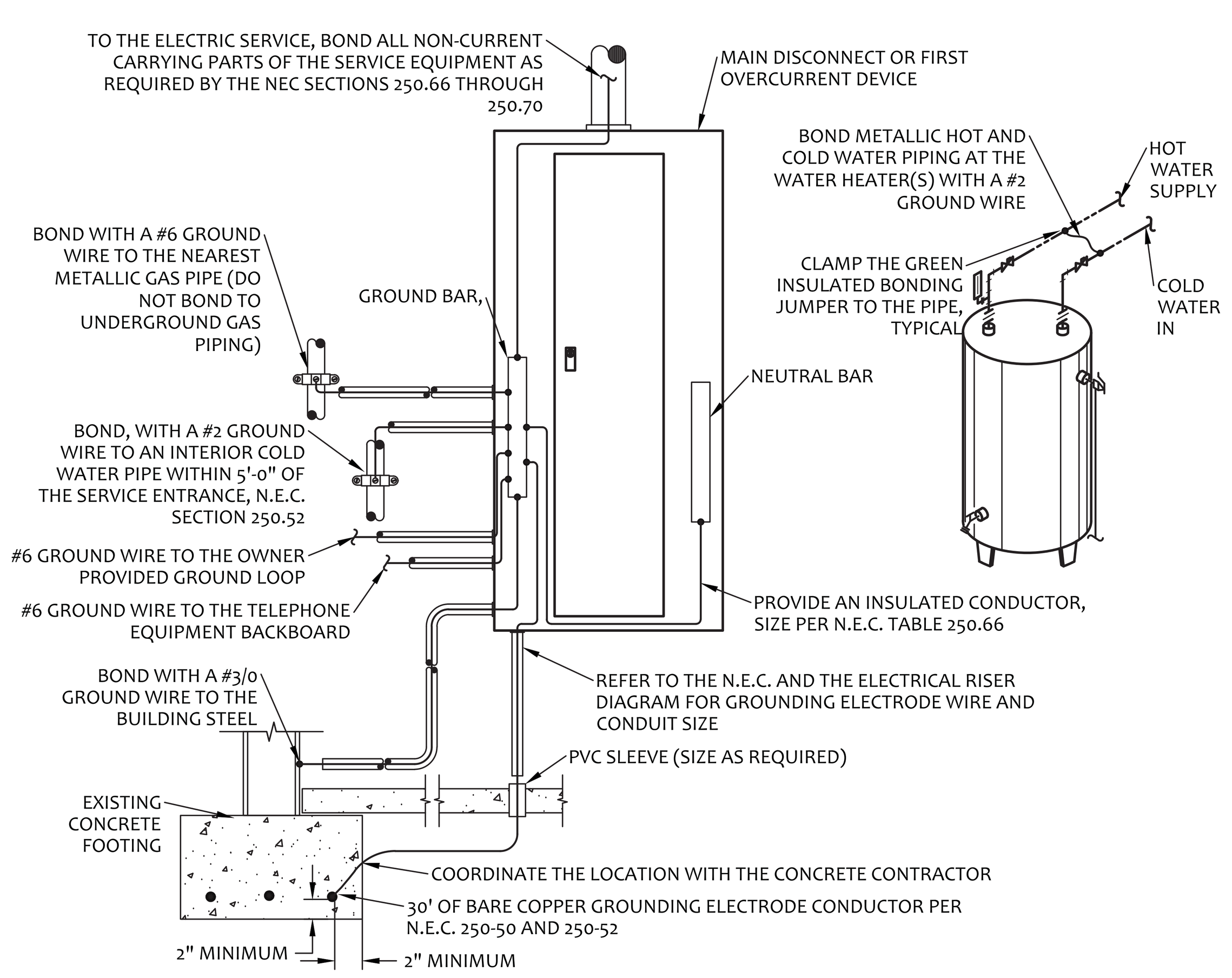
12/2/2016

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.



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE



4 GROUNDING DETAIL
NOT TO SCALE

11/28/2016

PANEL LP2 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-SOUTH- DISPATCH 101 & SERVER RM 104	L	489	20/1	12	12	1364		12	12	20/1	875	R	DOOR ACCESS MAG LOCKS DISPATCH 101, SERVER RM 104, MECH RM 105	2
3	LIGHTING-NORTH- DISPATCH 101 & MECH./ELEC. 105	L	349	20/1	12	12		959	12	12	20/1	610	R	RECEPT. DISPATCH 101 NORTH EAST	4
5	RECEPTICALE SERVER RM 104 EAST WALL	R	720	20/1	12	12	1940		12	12	20/1	1220	R	RECEPT. DISPATCH 101 EAST 1	6
7	RECEPTICALE SERVER RM 104 SOUTH WALL	R	720	20/1	12	12		1150	12	12	20/1	430	R	RECEPT. DISPATCH 101 EAST 2	8
9	RECEPT. SERVER RM 104 WEST WALL NORTH WALL, MECH./ELEC. 105 SOUTH WALL	R	180	20/1	12	12	1150		12	12	20/1	970	R	RECEPT. DISPATCH 101 SOUTH EAST	10
11	RECEPT. MECH 105, MECH ENCLOSURE 112	R	720	20/1	12	12		1440	12	12	20/1	720	R	RECEPT. DISPATCH 101 SOUTH WEST	12
13	WORK STATION POWER	R	1500	20/1	12	12	2040		12	12	20/1	540	R	RECEPT. DISPATCH 101 NORTH WEST	14
15	WORK STATION POWER	R	1500	20/1	12	12		3000	12	12	20/1	1500	R	WORK STATION POWER	16
17	WORK STATION POWER	R	1500	20/1	12	12	3000		12	12	20/1	1500	R	WORK STATION POWER	18
19	WORK STATION POWER	R	1500	20/1	12	12		3000	12	12	20/1	1500	R	WORK STATION POWER	20
21	WORK STATION POWER	R	1500	20/1	12	12	3000		12	12	20/1	1500	R	WORK STATION POWER	22
23	WORK STATION POWER	R	1500	20/1	12	12		3000	12	12	20/1	1500	R	WORK STATION POWER	24
25	WORK STATION POWER	R	1500	20/1	12	12	3000		12	12	20/1	1500	R	WORK STATION POWER	26
27	WORK STATION POWER	R	1500	20/1	12	12		3000	12	12	20/1	1500	R	WORK STATION POWER	28
29	WORK STATION POWER	R	1500	20/1	12	12	3000		12	12	20/1	1500	R	WORK STATION POWER	30
31	WORK STATION POWER	R	1500	20/1	12	12		3000	12	12	20/1	1500	R	RACK POWER	32
33	RACK POWER	R	1500	20/1	12	12	3000		12	12	20/1	1500	R	RACK POWER	34
35	RACK POWER	R	1500	20/1	12	12		3000	12	12	20/1	1500	R	RACK POWER	36
37	RACK POWER	R	1500	20/1	12	12	3000		12	12	20/1	1500	R	RACK POWER	38
39	RACK POWER	R	1500	20/1	12	12		1860	12	12	20/1	360	R	RECEPT. COMMUNICATION BOARD SERVER RM 104	40
41	RACK POWER	R	1500	20/1	12	12	2700		12	12	20/1	1200	R	RECEPT. SUMP PUMP MECH RM 105	42

ACCESSORIES:
GF-GROUND FAULT PROTECTED BREAKER
AF-ARC FAULT PROTECTED BREAKER
HL-HANDLE LOCK ON/OFF DEVICE

TOTAL PER PHASE (VA)	27194	23409
TOTAL CONNECTED (VA)	50603	
TOTAL CONNECTED AMPS	211	
TOTAL DIVERSIFIED AMPS	128	
TOTAL DIVERSIFIED AMPS WITH A 10% SAFETY FACTOR	141	

LOAD PER CATEGORY (VA)			
LIGHTING 'L'	838	MOTORS 'M'	0
RECEPTACLES 'R'	49765	MISC. 'MC'	0
HEATING 'H'	0	KITCHEN 'K'	0
COOLING 'C'	0	LARGEST MOTOR 'LM'	0
WATER HEATER 'W'	0		

GENERAL NOTES:

12/2/2016

PANEL LP1 SCHEDULE

AMP RATING	400	PHASE	1	MIN. INT. AMP	22 KAIC	MANUFACTURER	SQUARE D
300 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	826	20/1	12	12	1701		12	12	20/1	875	MC	DOOR ACCESS MAG LOCK VEST. 100	2
3	LIGHTING-PARKING LOT	L	450	20/1	12	12		1710	12	12	20/1	1260	R	RECEPT. VESTIBULE 100, CONFERENCE 102 & EXTERIOR	4
5	LIGHTING-VESTIBULE 100, NORTH-STOR. 106, JAN. 107, BATH 108, WOMEN 109, MEN 110, OFFICE 111	L	1110	20/1	12	12	2550		12	12	20/1	1440	R	RECEPT. VESTIBULE 100, NORTH EAST CON. ROOM 102	6
7	LIGHTING-SOUTH-CONFERENCE RM 102, BREAK RM 103	L	769	20/1	12	12		2209	12	12	20/1	1440	R	RECEPT. CONFERENCE ROOM 201, BREAKROOM 103 & EXTERIOR	8
9	SPARE	-	0	20/1	-	-	180		12	12	20/1	180	R	RECEPT. BREAKROOM 103 COUNTER	10
11	WATER HEATER WHE	W	2250	30/2	10	10		2430	12	12	20/1	180	R	RECEPT. BREAKROOM 103 GARBAGE DISPOSAL	12
13			2250		10	-	3450		12	12	20/1	1200	R	RECEPT. BREAKROOM 103 ICEMAKER	14
15	WATER HEATER WHI	W	1750	20/2	12	12		3250	12	12	20/1	1500	R	RECEPT. BREAKROOM 103 REFRIGERATOR	16
17			1750		-	12	3010		12	12	20/1	1260	R	RECEPT. STOR. 106, JAN. 107, WEST WOMENS 109, VEST 100 MID. NORTH, OUTSIDE NORTH WEST	18
19	SPACE	-	0	-	-	-		180	12	12	20/1	180	R	RECEPT. BATH 108	20
21	GROUND MOUNTED UNIT GMU-1	H	8100	90/2	3	8	9180		12	12	20/1	1080	R	RECEPT. WOMENS 109	22
23		C	8100		3	-		8280	12	12	20/1	180	R	RECEPT. DRINK FOUNTAIN, MENS 110	24
25	GROUND MOUNTED UNIT GMU-2	H	11340	150/2	1/0	6	11700		12	12	20/1	360	R	RECPT. MENS 110 EAST, OFFICE 111 SOUTH WEST, VEST. 100 NORTH EAST	26
27		C	11340		1/0	-		12240	12	12	20/1	900	R	RECEPT. OFFICE 111, EXTERIOR	28
29	SPACE	-	0	-	-	-	0		-	-	-	0	-	SPACE	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	SURGE SUPPRESSION	MC	0	30/2	10	10		360	12	12	20/1	360	R	RECEPT. GENERATOR	40
41		MC	0		10	-	360		12	12	20/1	360	R	RECEPT. GENERATOR	42

ACCESSORIES:
GF-GROUND FAULT PROTECTED BREAKER
AF-ARC FAULT PROTECTED BREAKER
HL-HANDLE LOCK ON/OFF DEVICE

TOTAL PER PHASE (VA)	32131	30659
TOTAL CONNECTED (VA)	62790	
TOTAL CONNECTED AMPS	262	
TOTAL DIVERSIFIED AMPS	261	
TOTAL DIVERSIFIED AMPS WITH A 10% SAFETY FACTOR	287	

LOAD PER CATEGORY (VA)			
LIGHTING 'L'	3155	MOTORS 'M'	0
RECEPTACLES 'R'	11880	MISC. 'MC'	875
HEATING 'H'	19440	KITCHEN 'K'	0
COOLING 'C'	19440	LARGEST MOTOR 'LM'	0
WATER HEATER 'W'	4000		

GENERAL NOTES:

PANEL LP3 SCHEDULE

AMP RATING	400	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	ELECTRIC FURNACE AH-4	H	6850	80/2	4	8	6850		-	-	-	0	-	SPACE	2
3		H	6850		4	-		6850	-	-	-	0	-	SPACE	4
5	CONDENSING UNIT HP-4	C	3204	60/2	6	10	3204		-	-	-	0	-	SPACE	6
7		C	3204		6	-		3204	-	-	-	0	-	SPACE	8
9	ELECTRIC FURNACE AH-5	H	8040	90/2	3	8	8040		-	-	-	0	-	SPACE	10
11		H	8040		3	-		8040	-	-	-	0	-	SPACE	12
13	ELECTRIC FURNACE AH-5	C	3123	60/2	6	10	3123		-	-	-	0	-	SPACE	14
15		C	3123		6	-		3123	-	-	-	0	-	SPACE	16
17	GENERATOR #1 BLOCK HEATER	H	1800	20/1	12	12	1800		-	-	-	0	-	SPACE	18
19	GENERATOR #2 BLOCK HEATER	H	1800	20/1	12	12		1800	-	-	-	0	-	SPACE	20
21	FIRE ALARM PANEL	MC	500	20/1	12	12	500		-	-	-	0	-	SPACE	22
23	SPACE	-	0	-	-	-		0	-	-	-	0	-	SPACE	24
25	SPACE	-	0	-	-	-	0		-	-	-	0	-	SPACE	26
27	SPACE	-	0	-	-	-		0	-	-	-	0	-	SPACE	28
29	SPACE	-	0	-	-	-	0		-	-	-	0	-	SPACE	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:
GF-GROUND FAULT PROTECTED BREAKER
AF-ARC FAULT PROTECTED BREAKER
HL-HANDLE LOCK ON/OFF DEVICE

TOTAL PER PHASE (VA)	23517	23017
TOTAL CONNECTED (VA)	46534	
TOTAL CONNECTED AMPS	194	
TOTAL DIVERSIFIED AMPS	207	
TOTAL DIVERSIFIED AMPS WITH A 10% SAFETY FACTOR	228	

LOAD PER CATEGORY (VA)			
LIGHTING 'L'	0	MOTORS 'M'	0
RECEPTACLES 'R'	0	MISC. 'MC'	500
HEATING 'H'	33380	KITCHEN 'K'	0
COOLING 'C'	12654	LARGEST MOTOR 'LM'	0
WATER HEATER 'W'	0		

GENERAL NOTES:

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12-2-16
COA 1078

ETC ENGINEERS & ARCHITECTS, INC.
ENGINEERING & ARCHITECTURAL CONSULTANTS / CONSTRUCTION MANAGERS

EMERGENCY DISPATCH CENTER
24 SOUTHPOINNT DRIVE PARAGOULD, AR

ISSUE / DATE	OCTOBER 27, 2016
DEC 2, 2016	ADDENDUM #3
DATE	DESCRIPTION
PROJECT NO.	16548.00
PROJECT PHASE	Construction Documents
DRAWN BY: BB	CHECKED BY: BSC

ELECTRICAL SCHEDULES & DETAILS

E3.0