

NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA

TOWN HALL POLICE - CITY OF WHITMIRE  
210 MAIN STREET, WHITMIRE, SC 29178

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CLIENT: NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA  
PROJECT NAME: TOWN HALL POLICE - CITY OF WHITMIRE  
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178



GENERAL NOTES:

THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS SHALL BE REQUIRED TO VISIT THE PREMISES TO INSPECT EXISTING CONDITIONS, BECOME FAMILIAR WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND CORRELATE PERSONAL OBSERVATIONS WITH REQUIREMENTS OF THE DRAWINGS.

ALL WORK PERFORMED SHALL BE IN STRICT COMPLIANCE WITH COUNTY REGULATIONS AND CODES, O.S.H.A. STANDARDS, THE CODE STANDARDS LISTED, EXECUTED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS, AND CONFORM TO SPECIFIC REGULATIONS AS MANDATED BY THE OWNER AND THE ARCHITECT.

IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO INSURE THE PROCUREMENT OF ALL REQUIRED AND NECESSARY PERMITS. ALL CONTRACTORS SHALL OBTAIN NECESSARY AND APPLICABLE CITY/COUNTY PERMITS, INSPECTIONS AND APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK AND CERTIFICATE OF OCCUPANCY UPON COMPLETION OF PROJECT. CONTRACTOR SHALL FURNISH COPIES OF PERMITS, INSPECTIONS AND CERTIFICATES TO OWNER UPON REQUEST.

CONTRACTOR SHALL BE REQUIRED TO COORDINATE WORK SCHEDULE TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES AND TO AVOID INTERFERENCE WITH ADJACENT OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS TO PROTECT SURROUNDINGS, MATERIALS AND EXISTING FINISHES THROUGHOUT ALL PHASES OF CONSTRUCTION AREAS AND OCCUPIED OR PUBLIC AREAS TO BE MAINTAINED BY CONTRACTOR. DAMAGE TO EXISTING-TO-REMAIN CONSTRUCTION, MATERIALS OR EQUIPMENT TO BE RESTORED TO ORIGINAL CONDITION.

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TRASH AND DEBRIS FROM JOB SITE ON A DAILY BASIS. FINAL CLEAN-UP WITHIN SCOPE OF WORK.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL RELATED TRADES AND VENDORS NECESSARY TO THE COMPLETION OF THE JOB ON A TIMELY BASIS.

DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT TO ARCHITECT ANY DISCREPANCIES FOR CLARIFICATION.

ALL WORK SHALL BE IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, CURRENT EDITION OF NATIONAL ELECTRIC CODE, INTERNATIONAL PLUMBING, AND MECHANICAL CODE, RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS IN THE AREA, ALL MANUFACTURERS' RECOMMENDATIONS, AND ALL OTHER APPLICABLE CODES.

THE DESIGN PROFESSIONAL DOES NOT GUARANTEE THE PERFORMANCE OF THE PROJECT IN ANY RESPECT OTHER THAN THAT OUR PROFESSIONAL WORK AND JUDGEMENT RENDERED MEET THE STANDARDS OF CARE OF OUR PROFESSION.

THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR, FOR A DISTANCE ON EACH SIDE EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR.

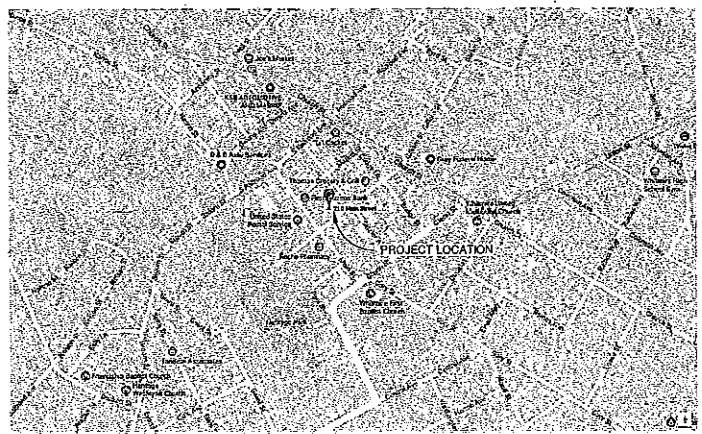
FIRE EXTINGUISHERS SHALL BE LOCATED PER THE REQUIREMENTS OF NFPA 10. THE SIZE SHALL BE A MINIMUM OF 2 A TO BC 1 AND SHALL BE INSTALLED AT A MAXIMUM OF 48" A.F.F. TO THE TOP OF THE HANDLE.

PROVIDE CONT. SOLID BLOCKING, AS REQUIRED, IN WALLS TO RECEIVE ACCESSORY ITEMS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:  
HANDRAILS  
TOILET ROOM ACCESSORIES  
GRAB BARS  
FIRE EXTINGUISHER CABINETS & BRACKETS  
CABINETS AND SHELVES

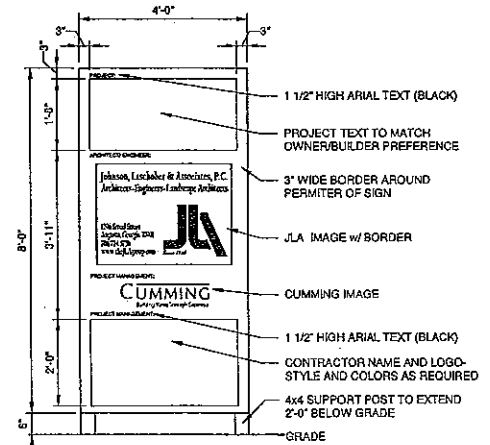
CLEAN WALLS, DOORS, DOOR FRAMES, HANDRAILS, GUARDRAILS, ETC. PER MANUFACTURERS RECOMMENDATIONS PRIOR TO SEALING AND PAINTING.

TEMPORARY SIGNS: PROVIDE TEMPORARY SIGNS AS REQUIRED TO INFORM PUBLIC AND INDIVIDUALS SEEKING ENTRANCE TO PROJECT.  
PROVIDE TEMPORARY, DIRECTIONAL SIGNS FOR CONSTRUCTION PERSONNEL AND VISITORS. MAINTAIN AND TOUCHUP SIGNS SO THEY ARE LEGIBLE AT ALL TIMES.

PROJECT LOCATION MAP



JOB SITE SIGN



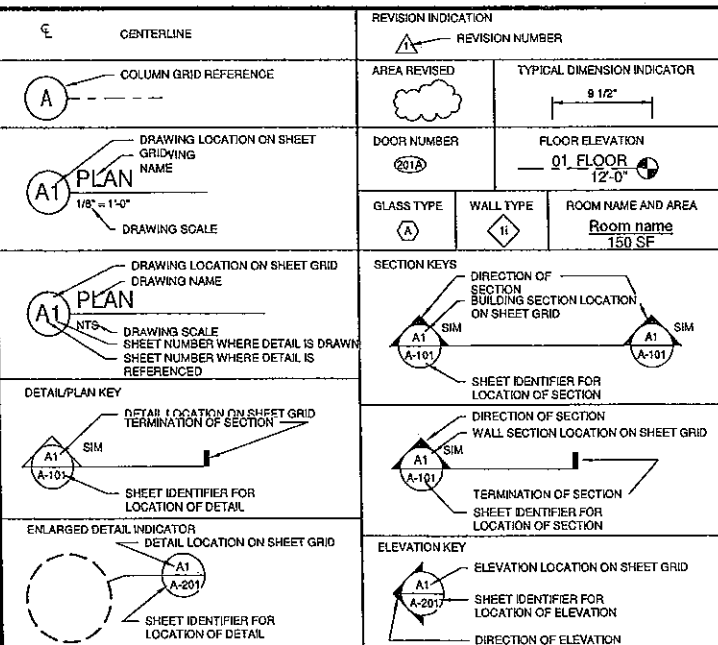
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PROJECT TEAM

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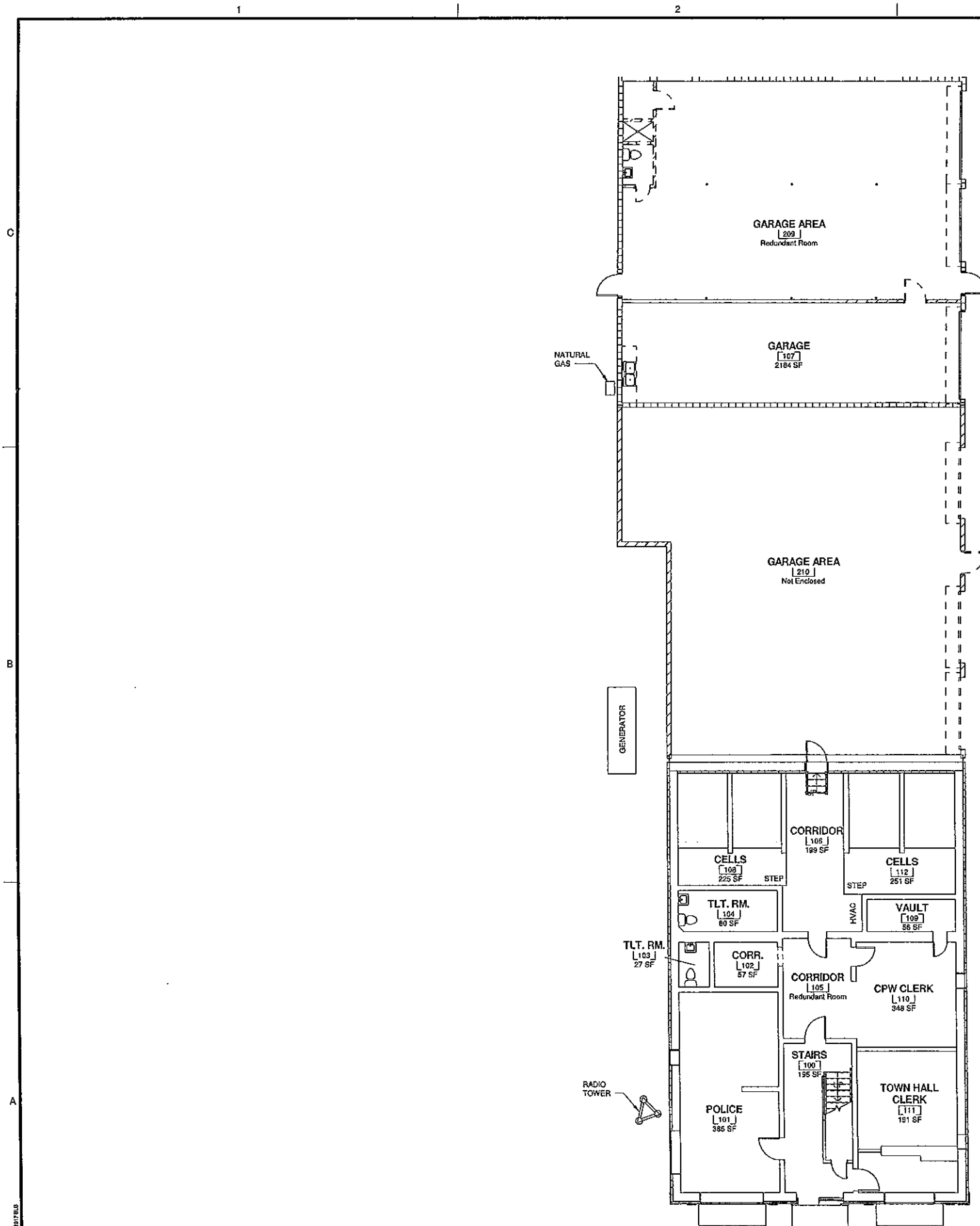
GRAPHIC SYMBOLS



- ALTERNATES TO BASE BID:
- REMOVE AND REPLACE ROOF ON GARAGE.
  - COMPLETE PROPOSED WORK IN GARAGE AREA PER SHEET AALT02.
  - COMPLETE FINISHES ON THE SECOND LEVEL OF THE MAIN TOWN HALL BUILDING.

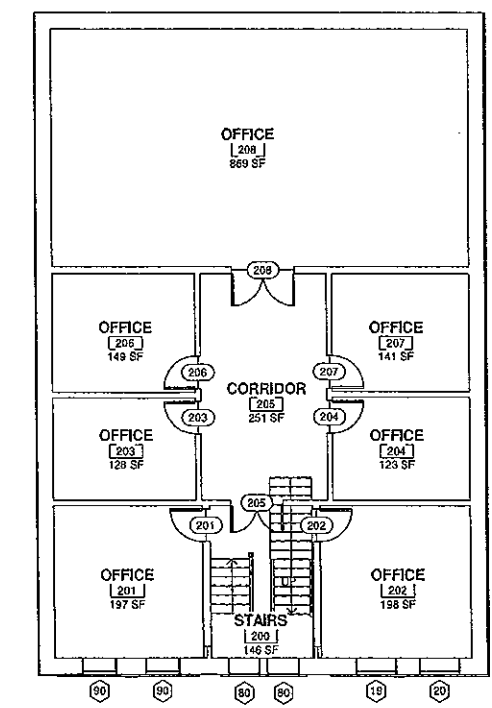
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DRAWN BY: CTH  
CHECKED BY: WLD  
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SHEET TITLE: COVER SHEET

SCALE: AS NOTED  
DRAWING NO. G-001  
REV. 0

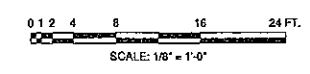



1  
A-001  
**FIRST FLOOR**  
SCALE: 1/8" = 1'-0"

NOTE:  
PLANS SHOWN FOR REFERENCE ONLY



2  
A-001  
**SECOND FLOOR**  
SCALE: 1/8" = 1'-0"





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NEWBERRY, SOUTH CAROLINA

PROJECT NAME: TOWN HALL POLICE -  
CITY OF WHITMIRE

PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178

STATE OF SOUTH CAROLINA  
JOHNSON, LASCHOB & ASSOCIATES, P.C.  
No. CC0730  
REGISTERED ARCHITECT

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REV	DATE	BY	DESCRIPTION
0	08/14/18	WLD	ISSUED FOR CONSTRUCTION

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PROJECT NO. 3606.1704  
DRAWN BY: CTH/HPT  
CHECKED BY: WLD  
DATE: 12/11/17  
SHEET TITLE:

**EXISTING FLOOR  
PLANS**

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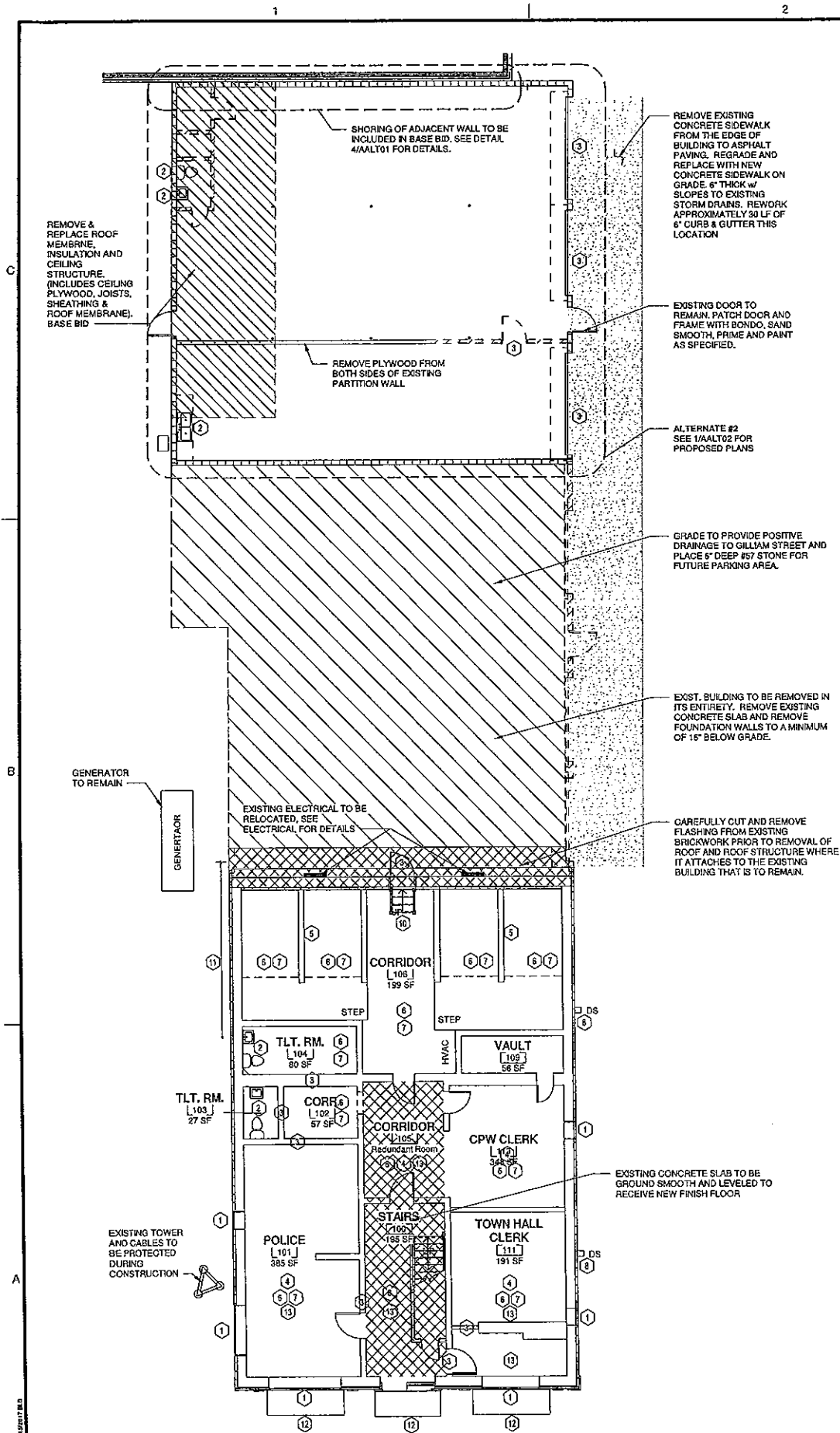
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DRAWING NO. **A-001**

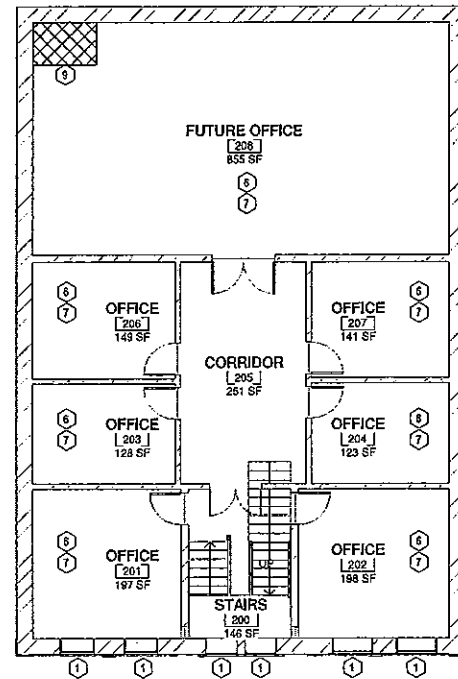
REV. 0

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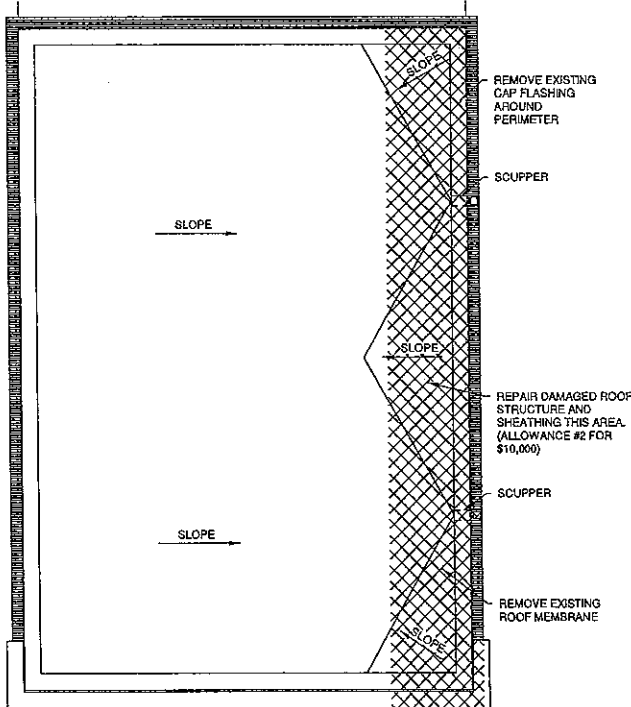
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1  
A-002  
DEMOLITION PLAN- LEVEL 1  
SCALE: 1/8" = 1'-0"



2  
A-002  
DEMOLITION PLAN- LEVEL 2  
SCALE: 1/8" = 1'-0"



3  
A-002  
DEMOLITION ROOF PLAN  
SCALE: 1/8" = 1'-0"

#### GENERAL DEMOLITION NOTES

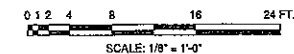
1. THE SCOPE OF THE DEMOLITION WORK INCLUDES THE FOLLOWING (UNLESS SPECIFICALLY INDICATED OTHERWISE):
2. EXISTING CEILINGS AND SUPPORT SYSTEMS ARE TO BE REMOVED UNLESS NOTED OTHERWISE BY THE ARCHITECT.
3. EXISTING FINISHED FLOORING TO BE REMOVED. SUBFLOORING, TO INCLUDE BUT NOT LIMITED TO FLOOR JOIST SYSTEM, IS TO BE INSPECTED FOR MOLD AND/OR WATER DAMAGE. ANY MOLD TO BE REMEDIATED AND DAMAGED BUILDING COMPONENTS ARE TO BE REPLACED WITH NEW LIKE MATERIALS. CONTACT ARCHITECT/ENGINEER FOR EXCESSIVE DAMAGE PRIOR TO DEMOLITION.
4. ALL WALLS THAT ARE SCHEDULED TO BE REMOVED SHALL INCLUDE THE REMOVAL OF ALL GAS PIPING, ELECTRICAL AND PLUMBING WORK CONCEALED WITHIN THOSE WALLS.
5. ALL ABANDONED, NONESSENTIAL OR OTHERWISE NOT SPECIFICALLY SHOWN TO BE REUSED, MECHANICAL, PLUMBING OR ELECTRICAL UTILITIES THAT ARE EXPOSED AFTER CEILING OR WALL REMOVAL, ARE TO BE REMOVED AND CAPPED AT POINT OF ORIGIN. CONSULT ARCHITECT IF QUESTIONS ARISE AS TO WHETHER A SERVICE IS TO BE ABANDONED OR IS TO REMAIN.
6. ALL OTHER COMPONENTS OF THE EXISTING CONSTRUCTION, NOT ESSENTIAL TO REMAIN, THAT WOULD INTERFERE WITH THE INSTALLATION OF NEW WORK OR INTERFERE WITH THE INSTALLATION OF NEW FLUSH, UNBROKEN PLUMB AND LEVEL WALL, CEILING, AND FLOOR SURFACES, SHALL BE REMOVED.
7. ALL EXISTING UTILITY SERVICE LINES IN RENOVATED AREAS SHALL CONNECT TO NEW SERVICE LINES OR BE REMOVED AND CAPPED OFF AS REQUIRED. REMOVE AND CAP OFF ALL ABANDONED UTILITIES BEHIND FINISH WALL SURFACES OR BELOW FLOOR SLABS WHICH ARE EXPOSED DURING THE WORK.
8. ALL EXPOSED MATERIALS INCLUDED, BUT NOT LIMITED TO, CONCRETE, MASONRY, AND TILE WILL BE CUT IN STRAIGHT LINES PLUMB OR LEVEL USING CONCRETE SAWS, SCORING KNIVES OR OTHER APPROPRIATE TOOLS AS REQUIRED TO GIVE SMOOTH CLEAN EDGES. IRREGULARITIES IN EXPOSED SURFACES OR SURFACES TO BE REFINISHED SHALL BE GROUND SMOOTH OR FILLED FLUSH.
9. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR THE REGULAR DAILY REMOVAL OF ALL WASTE MATERIAL FROM THE PROJECT SITE AND BE RESPONSIBLE FOR KEEPING ALL AREAS CLEAN.
10. SALVAGE: THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL MATERIAL AND ITEMS TO BE REMOVED. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER WHEN DEMOLITION IS ABOUT TO BEGIN AND CONDUCT A SURVEY WITH THE OWNER TO IDENTIFY THOSE ITEMS TO BE SALVAGED. ITEMS IDENTIFIED BY THE OWNER TO BE SALVAGED AND TURNED OVER TO THE OWNER ARE TO BE REMOVED BY THE GENERAL CONTRACTOR AND DELIVERED TO A MUTUALLY AGREED LOCATION.
11. EXISTING WALLS THAT TIE INTO EXTERIOR WALLS SHALL BE REMOVED FLUSH WITH THE EXTERIOR WALL. EXTERIOR WALLS SHALL NOT BE DAMAGED DURING DEMOLITION ACTIVITIES. THE EXISTING INTERIOR SHEETROCK ON EXTERIOR WALLS TO REMAIN TO HOLD BUILDING INSULATION IN PLACE.
12. EXTERIOR DOORS AND WINDOWS THAT ARE TO REMAIN ARE TO BE PROTECTED DURING DEMOLITION ACTIVITIES.
13. ALL EXISTING MECHANICAL UNITS, DUCTWORK, GRILLES AND DIFFUSERS TO BE REMOVED ENTIRELY. OWNER RETAINS SALVAGE RIGHTS TO HVAC EQUIPMENT UNLESS NOTED OTHERWISE.
14. ALL ELECTRICAL SERVICE PANELS, BRANCHWIRING, RECEPTACLES AND LIGHT FIXTURES TO BE REMOVED ENTIRELY.

#### DEMOLITION NOTES

- WALLS TO BE DEMOLISHED
- WALLS TO REMAIN

#### DEMOLITION KEYNOTES

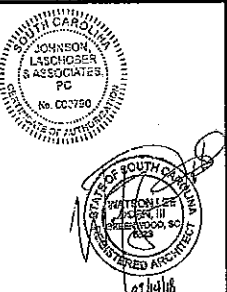
- 1 REMOVE AND DISPOSE EXISTING WINDOW. REPAIR WALL AS REQUIRED. SEE DETAIL SA-401.
- 2 REMOVE AND DISPOSE EXISTING PLUMBING FIXTURES. REPAIR WALL/FLOOR AS REQD. SEE MECHANICAL DRAWINGS
- 3 REMOVE AND DISPOSE EXISTING DOOR AND FRAMING. REPAIR WALL/FLOOR AS REQUIRED.
- 4 REMOVE EXISTING WALL COVERINGS. INSPECT FOR MOLD AND/OR DETERIORATION. REMEDIATE ALL MOLD AND REPLACE DAMAGED BUILDING COMPONENTS WITH NEW MATERIALS. SEE PROPOSED PLAN FOR NEW MATERIALS.
- 5 REMOVE CELL WALLS. CONSULT WITH OWNER ON SALVAGE OR DISPOSAL OF MATERIALS.
- 6 REMOVE AND DISPOSE EXISTING FINISH FLOORING. ENSURE SUBFLOOR/SLAB IS LEVELED AND READY TO RECEIVE NEW FLOORING.
- 7 REMOVE AND DISPOSE EXISTING CEILING AND SUPPORT SYSTEM.
- 8 REMOVE DOWNSPOUTS.
- 9 REMOVE FLOOR AS REQUIRED FOR NEW MECHANICAL.
- 10 REMOVE STEEL STAIRS
- 11 REMOVE EXISTING GAS LINE.
- 12 EXISTING AWNING TO BE REPLACED WITH SAME SIZE AWNING- UTILIZED EXISTING AWNING FRAMING.
- 13 ALL INTERIOR WALLS ON FIRST FLOOR TO BE STRIPPED TO STUDS TO ALLOW FOR NEW ELECTRICAL WORK. ONCE COMPLETE REPLACE WITH 5/8" GYP. BOARD ON ALL EXPOSED SURFACES



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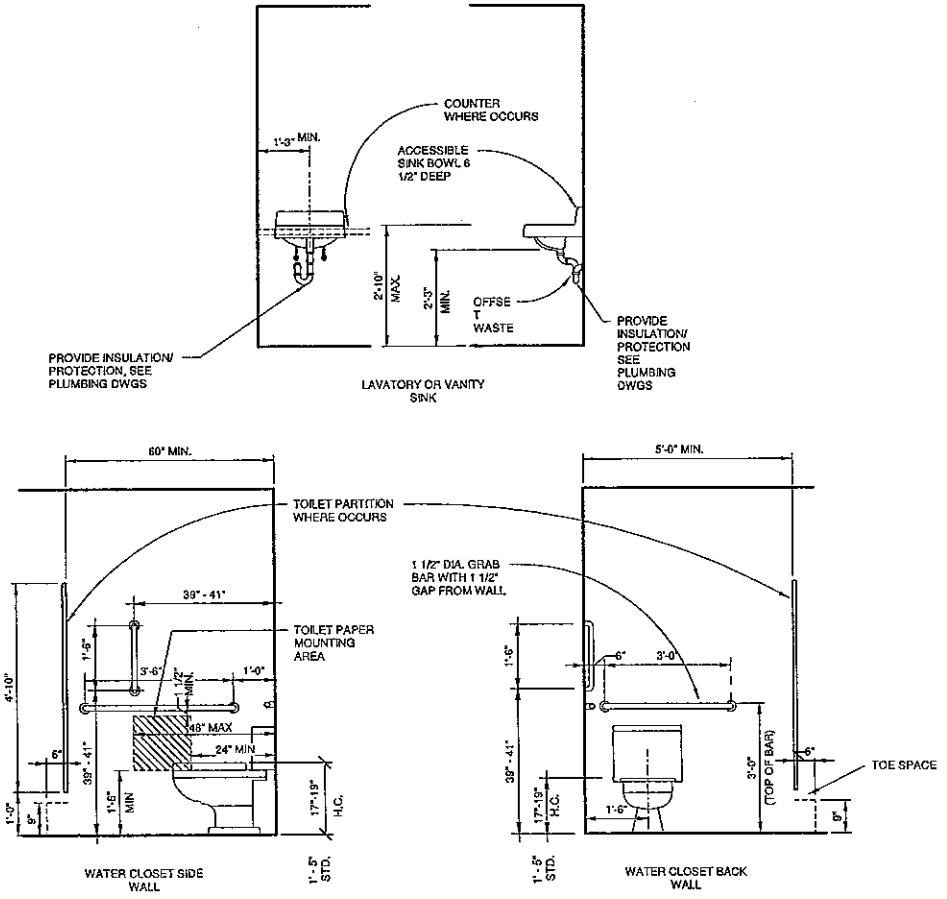


REV	DATE	BY	DESCRIPTION
D	09/07/18	WLD	ISSA OWNER REVIEW
C	08/20/18	WLD	PROGRESS SET
B	04/09/18	WLD	PROGRESS SET
A	02/26/18	WLD	FINAL OWNER REVIEW

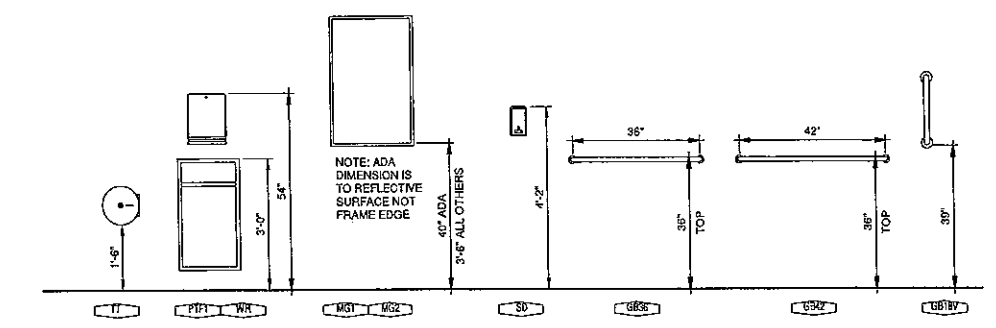
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DRAWN BY: CTH/JPT  
CHECKED BY: WLD  
DATE: 12/11/17  
SHEET TITLE:

DEMOLITION PLAN

SCALE: AS NOTED  
DRAWING NO. A-002  
REV. D



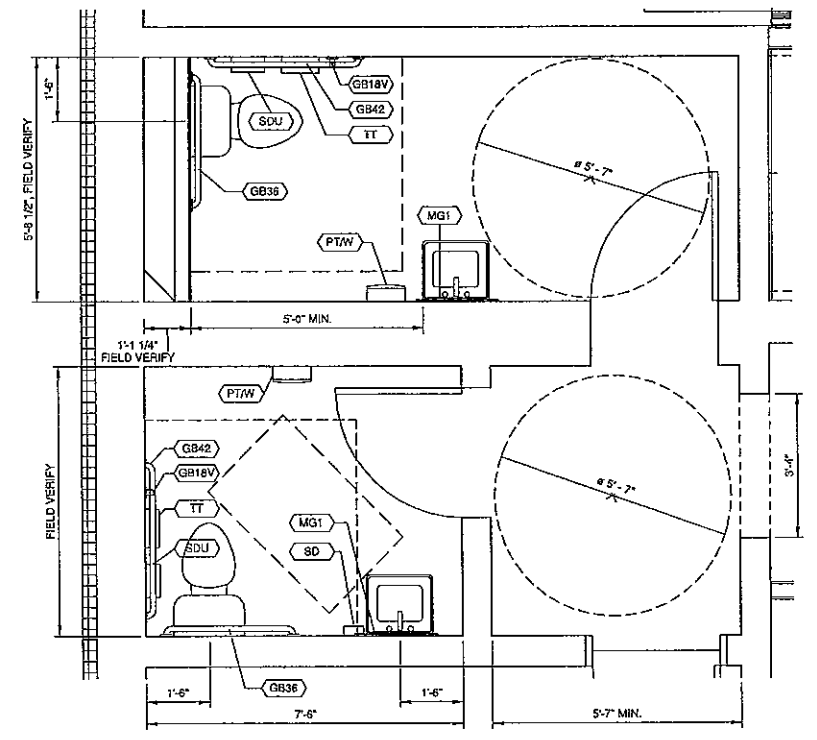
1 MOUNTING HEIGHTS DETAILS  
A-103 SCALE: 1/2" = 1'-0"



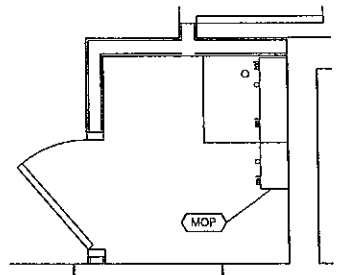
TOILET ACCESSORIES- MOUNTING HEIGHTS  
SCALE: 1/2" = 1'-0"

ACCESSORY SCHEDULE			
NOTE: ALL ACCESSORIES TO HAVE MAX PROJECTION OF 4"			
KEY	ACCESSORY DESCRIPTION	BOBRICK NO. / ASI NO. *	MOUNTING HEIGHT
TT	SURFACE-MOUNTED JUMBO ROLL TISSUE DISPENSER	ASI 0042	BOTTOM OF UNIT - 1'-6"
SDU	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	ASI 0652	TOP OF UNIT - 2'-5"
PTW	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE	ASI 0467-2	TOP OF WASTE - 3'-0"
MG1	GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	ASI 0600-2436	BOTTOM OF UNIT - 3'-4"
SD	SURFACE-MOUNTED SOAP DISPENSER	ASI-0351	BOTTOM OF UNIT - 3'-6"
GB18V	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	B-6806 x 18	CENTER OF UNIT - 3'-3"
GB38	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	B-6806 x 36	TOP OF UNIT - 3'-0"
GB42	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE	B-6806 x 42	TOP OF UNIT - 3'-0"
MGP	UTILITY SHELF WITH MOP / BROOM HOLDERS AND RAG HOOKS	B-224	TOP OF UNIT - 5'-0"

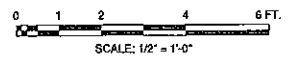
\* CONTRACTOR TO PROVIDE BOBRICK, OR ASI ACCESSORY AS NOTED OR APPROVED EQUAL



2 TOILET ROOMS- 103 & 104  
A-103 SCALE: 1/2" = 1'-0"



4 JAN. - 114  
A-103 SCALE: 1/2" = 1'-0"



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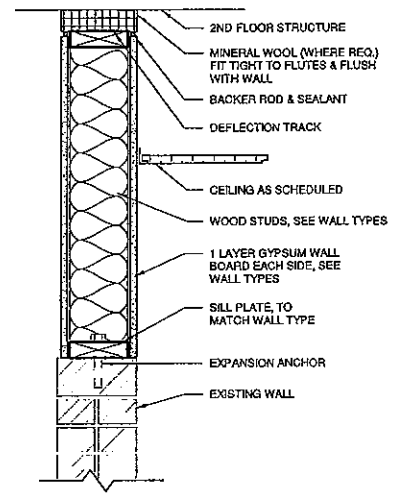
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178

JOHNSON, LASCHOB & ASSOCIATES, P.C.  
K. COOPER  
REGISTERED ARCHITECT  
01/14/08

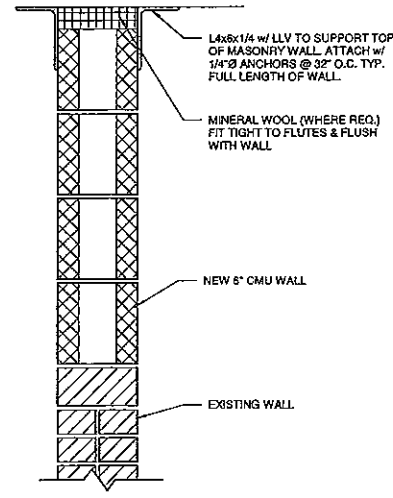
REV	DATE	BY	DESCRIPTION
0	09/14/18	WLD	ISSUED FOR CONSTRUCTION

PROJECT NO. 3606.1704  
DRAWN BY: CBW/JPT  
CHECKED BY: WLD  
DATE: 12/11/17  
SHEET TITLE: ENLARGED RESTROOM FLOOR PLANS

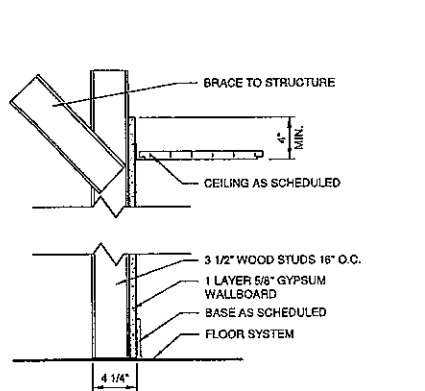
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REV. 0



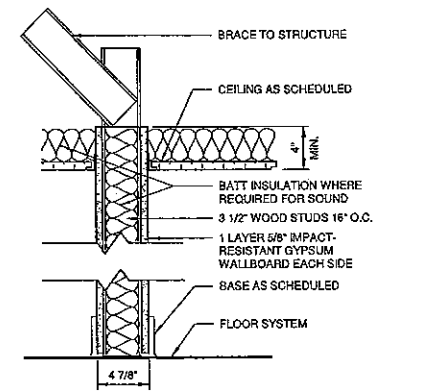
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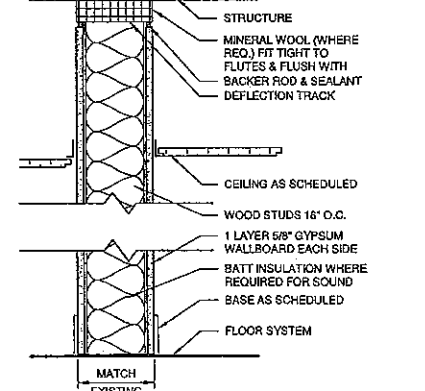
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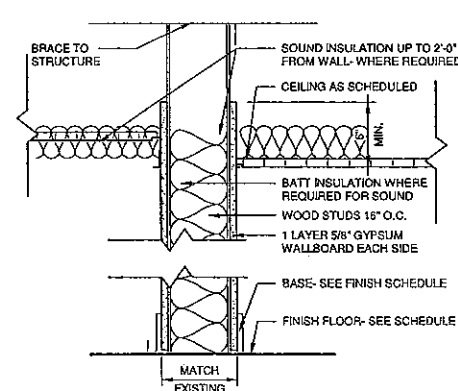
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N/A	N/A	N/A



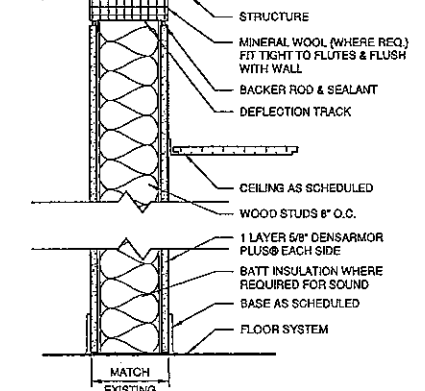
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N/A	N/A	N/A



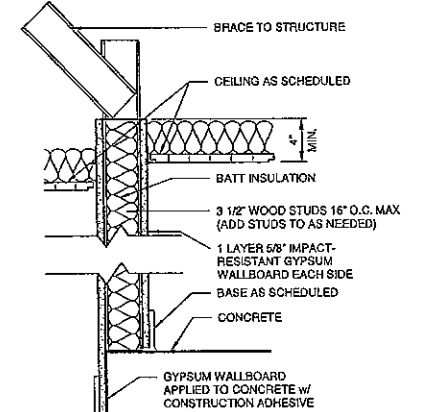
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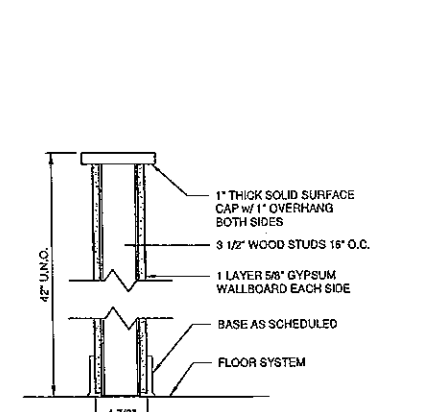
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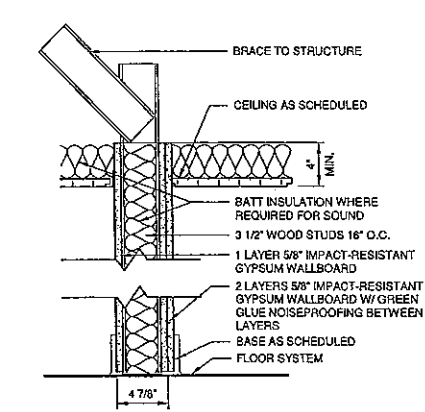
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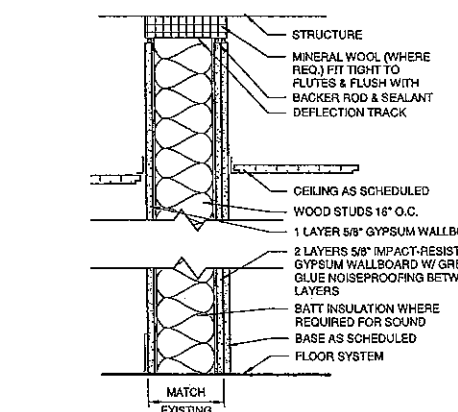
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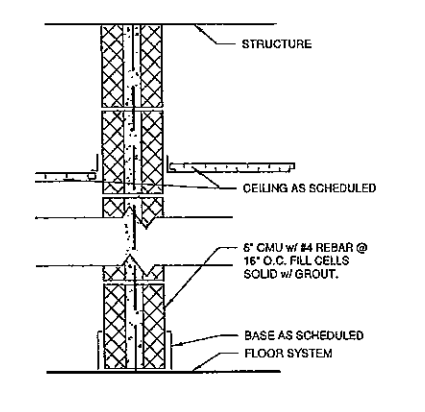
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N/A	N/A	N/A




FIRE RATING	UL TEST NO.	STC RATING - N/A
N/A	N/A	N/A



FIRE RATING	UL TEST NO.	STC RATING - N/A
N/A	N/A	N/A



FIRE RATING	UL TEST NO.	STC RATING - N/A
1 HR	N/A	N/A



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CLIENT: NEWBERRY COUNTY  
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PROJECT NAME: TOWN HALL POLICE -  
CITY OF WHITMIRE

PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178

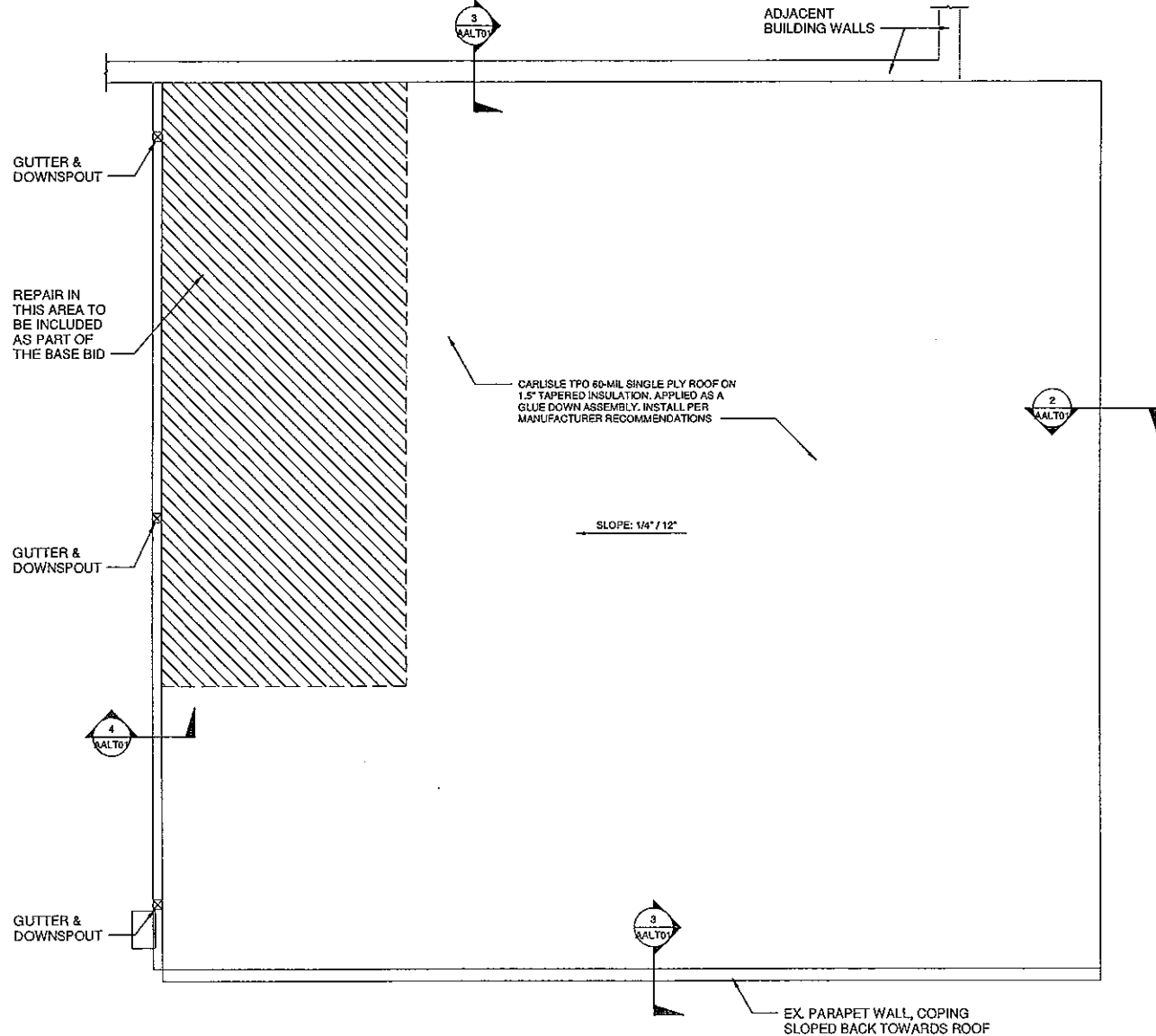
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DRAWN BY: CBW  
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DATE: 12/11/17  
SHEET TITLE: WALL TYPES

SCALE: AS NOTED

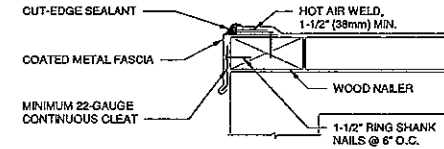
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REV. 0

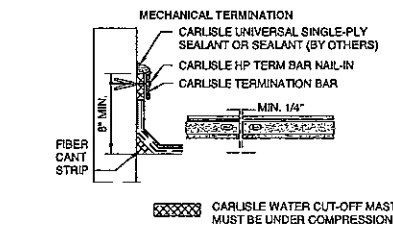
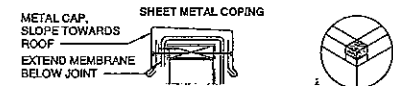
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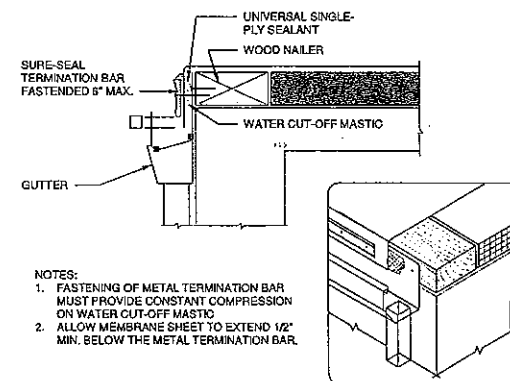
1 GARAGE ROOF PLAN- ALTERNATE #1  
SCALE: 1/4" = 1'-0"



2 CARLISLE DRIP EDGE  
SCALE: 3" = 1'-0"



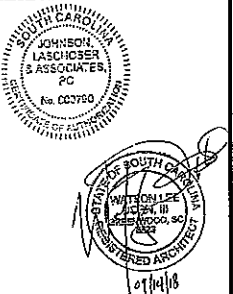
3 CARLISLE TERMINATIONS  
SCALE: 3" = 1'-0"



4 CARLISLE GUTTER EDGE  
SCALE: 3" = 1'-0"

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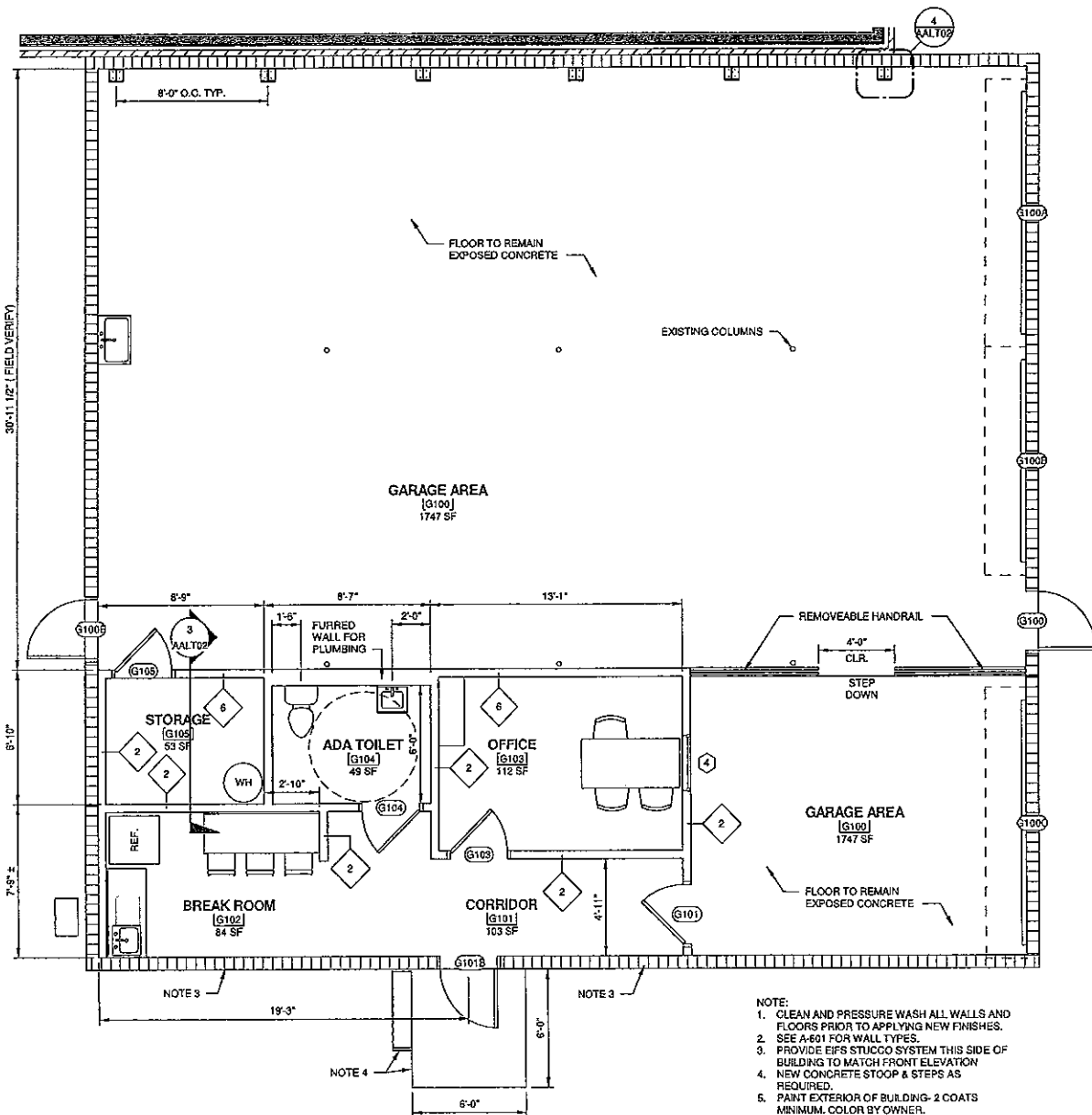
CLIENT: NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA  
PROJECT NAME: TOWN HALL POLICE - CITY OF WHITMIRE  
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178



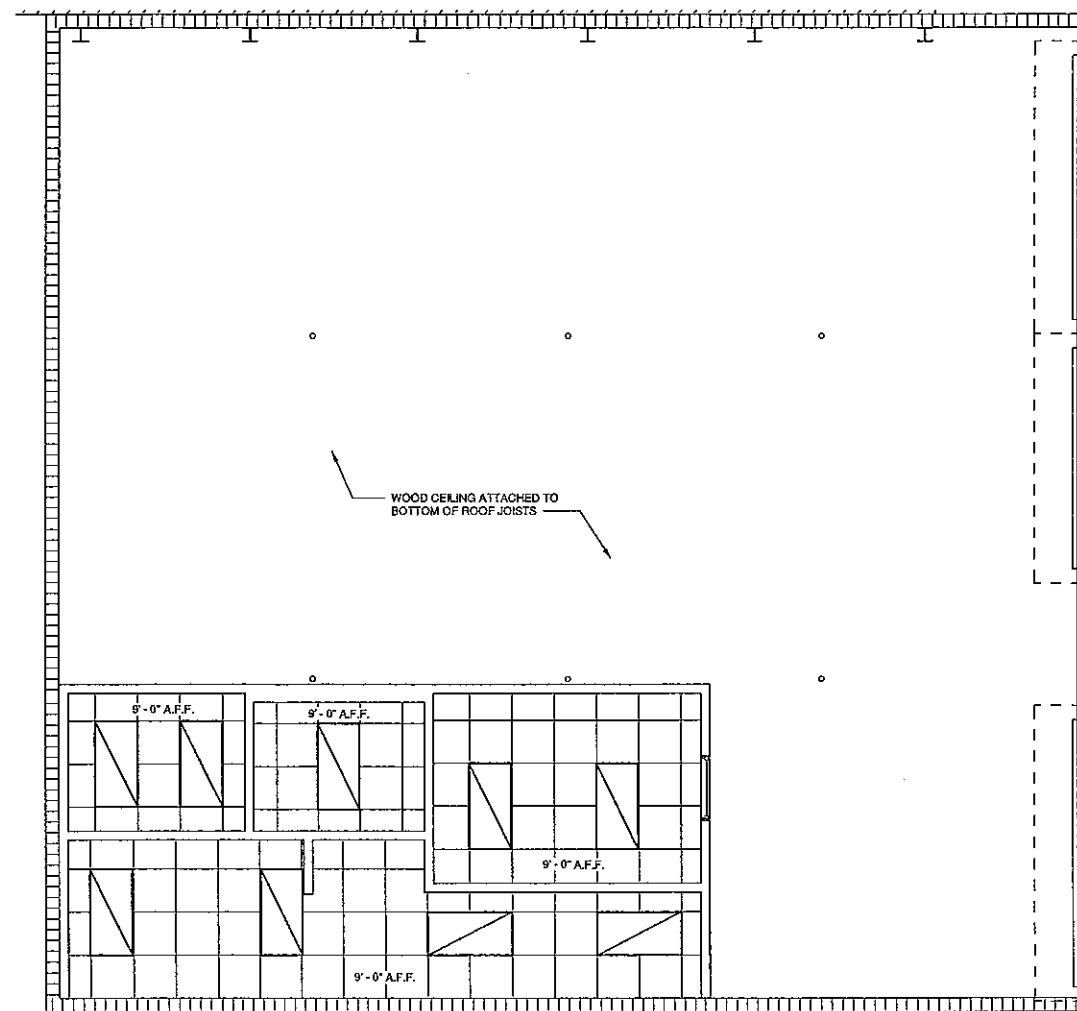
REV	DATE	BY	DESCRIPTION
0	08/14/18	WLD	ISSUED FOR CONSTRUCTION

PROJECT NO. 3606.1704  
DRAWN BY: CBW  
CHECKED BY: WLD  
DATE: 12/11/17  
SHEET TITLE: GARAGE ROOF PLAN- ALTERNATE #2

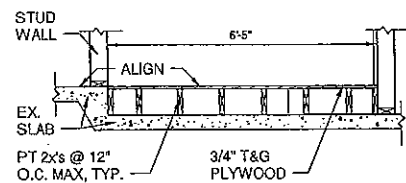
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REV. 0



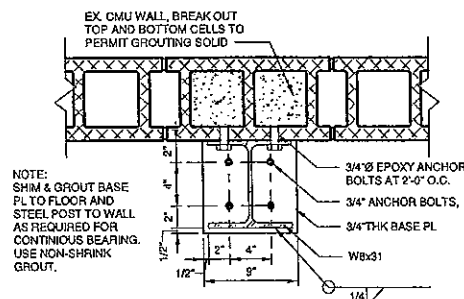
1 PROPOSED GARAGE- ALTERNATE #2  
SCALE: 1/4" = 1'-0"



2 GARAGE REFLECTED CEILING PLAN- ALTERNATE #2  
SCALE: 1/4" = 1'-0"



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

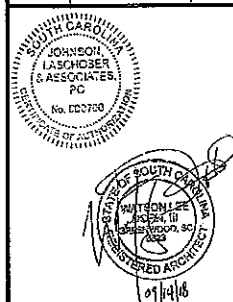


4 COLUMN BASEPLATE  
SCALE: 1 1/2" = 1'-0"

CEILING LEGEND					
	ACOUSTICAL CEILING TILE 2X2 LAY-IN CEILING PANEL WITH SUSPENDED GRID		MECH DIFFUSER / RETURN GRILLE SEE MECH DWGS.		CEILING CAP / SOUND BARRIER INSULATION PLATE ABOVE CEILING (2'-0" FROM PERIMETER WALLS)
	HARD CEILING- PAINTED (GYPSUM BOARD PAINTED)		LAY-IN FIXTURE 1 X 4 LIGHT FIXTURE		HVAC RETURN SEE HVAC DWGS.
	WOOD CEILING- PAINTED TONGUE & GROOVE PLYWOOD PAINTED		LAY-IN FIXTURE 2 X 4 LIGHT FIXTURE		EXIT LIGHT
	METAL PANEL SOFFIT		RECESSED LIGHT FIXTURE	NOTES: 1. SEE ALL ELECTRICAL AND MECHANICAL DRAWINGS FOR ALL RELATED ITEMS. 2. SEE ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE.	
			SUSPENDED FIXTURE		
			WALL MOUNTED FIXTURE		

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PROJECT NAME: TOWN HALL POLICE -  
CITY OF WHITMIRE  
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178



REV	DATE	BY	DESCRIPTION
0	09/14/16	WLD	ISSUED FOR CONSTRUCTION

PROJECT NO. 3606.1704  
DRAWN BY: CBW  
CHECKED BY: WLD  
DATE: 12/11/17  
SHEET TITLE:  
**GARAGE BUILDING  
PLANS-  
ALTERNATE #2**

SCALE: AS NOTED  
DRAWING NO. **AALT02**  
REV. 0  
8/17/2018 2:00:23 PM

**GENERAL:**  
THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PRODUCT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

WORK COVERED BY THIS DOCUMENT SHALL INCLUDE ALL LABOR, MATERIAL, PRODUCTS, AND SERVICES FOR, AND INCIDENTAL TO, INSTALLATION OF COMPLETE AND OPERATING PLUMBING SYSTEMS DRAWN OR SPECIFIED.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, 2015 INTERNATIONAL PLUMBING CODE w/ AMENDMENTS, 2015 INTERNATIONAL FUEL GAS CODE w/ AMENDMENTS, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND ALL ADA AMENDMENTS.

ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ARCHITECT OR ENGINEER.

**INSTALL ALL PLUMBING FIXTURES PER MANUFACTURER'S INSTRUCTIONS.**

EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR ALL FIXTURES AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS, LARGE SCALE ARCHITECTURAL DETAILS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS.

PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. EXACT LOCATIONS SHALL BE PROVIDED ON "AS-BUILT" DRAWINGS.

MINIMUM SIZE WATER LINE FOR THREE OR MORE FIXTURES SHALL BE 3/4". REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL RUNOUT SIZES.

ALL PIPING TO BE CONCEALED IN A WALL, CEILING, OR A CHASE UNLESS OTHERWISE NOTED. PIPING SHOWN OUT OF CHASES FOR CLARITY.

PROVIDE SLEEVES FOR PIPES PASSING THRU FLOORS, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK MINERAL WOOL IN ANNULAR SPACE BETWEEN PIPE SLEEVE.

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE MOUNTING HEIGHTS. ALL ACCESSIBLE FIXTURES SHALL COMPLY WITH STATE BUILDING CODE AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

ARRANGEMENTS OF WORK SHALL BE AS SHOWN. DRAWINGS ARE NOT INTENDED TO INDICATE ALL OFFSETS AND FITTINGS. EXAMINE ALL DRAWINGS, INVESTIGATE CONDITIONS TO BE ENCOUNTERED AND ARRANGE WORK ACCORDINGLY; FURNISH ALL FITTINGS AND OFFSETS.

MEASUREMENT OF DRAWINGS BY SCALE SHALL NOT BE USED AS DIMENSIONS FOR FABRICATION. MEASUREMENTS FOR LOCATING FIXTURES, EQUIPMENT, DUCTWORK, PIPING AND ACCESSORIES SHALL BE MADE ON THE SITE AND SHALL BE BASED ON ACTUAL JOB CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASUREMENTS WHERE THE CONTRACTOR PREFABRICATES ANY WORK BASED ON THE DRAWINGS WITHOUT VERIFYING ACTUAL JOB CONDITIONS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COST INVOLVED IN MAKING CHANGES TO PREFABRICATED WORK WHERE CONFLICTS OCCUR.

ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION TO ALLOW FOR INSTALLATIONS.

INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL, PLUMB, PARALLEL, AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.

COPPER PIPING SHALL NOT BE INSTALLED IN DIRECT CONTACT WITH MASONRY, CEMENT MORTAR, CONCRETE, OR DISSIMILAR METALS. PLUMBING CONTRACTOR TO PROVIDE SLEEVES AND COORDINATE w/ GENERAL CONTRACTOR DURING SLAB INSTALLATION.

CUTTING AND REPAIRING: THE PLUMBING CONTRACTOR SHALL DO ALL CUTTING AND REPAIRING OF WALLS, FLOORS, CEILINGS, ETC. NECESSARY FOR THE INSTALLATION OF THE WORK BUT HE SHALL NOT CUT INTO ANY STRUCTURAL MEMBER WITHOUT THE PERMISSION OF THE ARCHITECT.

PROVIDE SHOCK ABSORBERS AS INDICATED ON PLANS.

PLUMBING CONTRACTOR TO PROVIDE PROPER SEPARATION BETWEEN WATER SUPPLY AND WASTE/SANITARY PIPING PER INTERNATIONAL PLUMBING CODE.

PLUMBING CONTRACTOR TO PROVIDE PREPRINTED 1/2" HIGH LETTERED LABELS FOR THE FOLLOWING: INTERIOR MAIN SHUT-OFF VALVE, POTABLE WATER SUPPLY PIPING, & HOT WATER PIPING. LABELS SHOULD BE MOUNTED EVERY 20'-0" ON HORIZONTAL RUNS.

GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE, ABOVE CEILING VALVES AND EQUIPMENT. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

**DOMESTIC WATER PIPING:**  
UNDER-BUILDING SLAB, DOMESTIC WATER, BUILDING SERVICE PIPING SHALL BE SOFT COPPER TUBING, ASTM B 88, TYPE K, WITH WROUGHT-COPPER, SOLDER-JOINT FITTINGS, AND BRAZED JOINTS. AVOID JOINTS UNDER BUILDING SLAB WHERE POSSIBLE.

ALL OTHER UNDER-BUILDING SLAB, DOMESTIC WATER PIPING SHALL BE SOFT COPPER TUBING, ASTM B 88, TYPE L, WITH WROUGHT-COPPER, SOLDER-JOINT FITTINGS, AND BRAZED JOINTS. AVOID JOINTS UNDER BUILDING SLAB WHERE POSSIBLE.

ALL ABOVEGROUND DOMESTIC WATER PIPING SHALL BE HARD COPPER TUBING, ASTM B 88, TYPE L, WITH CAST- OR WROUGHT-COPPER, SOLDER-JOINT FITTINGS, AND SOLDERED JOINTS.

ALL INDOOR DOMESTIC COLD, HOT, AND RECIRCULATED HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC INSULATION, COMPLYING WITH ASTM C 534, TYPE 1 FOR TUBULAR MATERIALS, EQUAL TO ARMACELL "AP ARMAFLEX".

**SANITARY WASTE AND VENT PIPING:**  
ALL SOIL, DRAIN, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV WITH  
SOLVENT WELD JOINTS, CONFORMING TO ASTM D 2685 AND ASTM D 2564. IN AREAS WITH  
RETURN AIR PLENUM ABOVE THE CEILING, TRANSITION PIPING BELOW CEILING FROM PVC  
TO HUBLESS CAST-IRON. EXTEND CAST IRON VENT THROUGH ROOF. PVC PIPING IS NOT  
ALLOWED IN RETURN AIR PLENUM SPACES.

ALL SOIL, DRAIN, WASTE AND VENT PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE HUBLESS CAST-IRON SOIL PIPE AND FITTINGS, CONFORMING TO ASTM A 888 OR CISPI 301, WITH CISPI HUBLESS PIPING COUPLINGS, CONFORMING TO ASTM C 1277 AND CISPI 310, AND COUPLED JOINTS.

ALL PIPING PASSING THROUGH THE ROOF SHALL BE FLASHED WITH ROOF FLASHING ASSEMBLY COMPATIBLE WITH THE ROOFING SYSTEM.

**GAS PIPING:**  
ALL OUTDOOR, UNDERGROUND GAS PIPING SHALL BE PE PIPE AND FITTINGS, COMPLYING WITH ASTM D 2513, ASTM D 2683, AND ASTM D 3261, JOINED BY HEAT FUSION, WITH SERVICE-LINE RISERS WITH TRACER WIRE TERMINATED IN AN ACCESSIBLE LOCATION.

ALL OUTDOOR, ABOVEGROUND GAS PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPE, COMPLYING WITH ASTM A 53, WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS, COMPLYING WITH ASME B 16.3, OR WROUGHT-STEEL FITTINGS AND WELDED JOINTS, COMPLYING WITH ASTM A 234. JOINT COMPOUND AND TAPE SHALL BE SUITABLE FOR NATURAL GAS.













ALL INDOOR, ABOVEGROUND GAS PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPE, COMPLYING WITH ASTM A 53, WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS, COMPLYING WITH ASME B 16.3, OR WROUGHT-STEEL FITTINGS AND WELDED JOINTS, COMPLYING WITH ASTM A 234. JOINT COMPOUND AND TAPE SHALL BE SUITABLE FOR NATURAL GAS.

PRESSURE REGULATORS SHALL BE SINGLE STAGE AND SUITABLE FOR NATURAL GAS. SERVICE PRESSURE REGULATORS SHALL COMPLY WITH ANSI Z21.80. LINE PRESSURE REGULATORS SHALL COMPLY WITH ANSI Z21.80. APPLIANCE PRESSURE REGULATORS SHALL COMPLY WITH ANSI Z21.18.

**FIELD QUALITY CONTROL:**  
ALL DOMESTIC WATER PIPING SHALL BE TESTED FOR LEAKS AND DEFECTS; FILL DOMESTIC WATER PIPING, CAP, AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW IT TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. LEAVE DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED.

ALL SANITARY WASTE AND VENT PIPING SHALL BE TESTED FOR LEAKS AND DEFECTS AT COMPLETION OF ROUGH-IN. CLOSE OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF OVERFLOW, BUT NOT LESS THAN 10-FOOT HEAD OF WATER. FROM 15 MINUTES BEFORE INSPECTION STARTS TO COMPLETION OF INSPECTION, WATER LEVEL MUST NOT DROP. INSPECT JOINTS FOR LEAKS. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTIONS THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED. INSTANT TEST IS WHEN THE SYSTEM IS TO BE TESTED. SYSTEMS LEAVE SANITARY WASTE AND VENT PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN REINSTATED AND APPROVED.

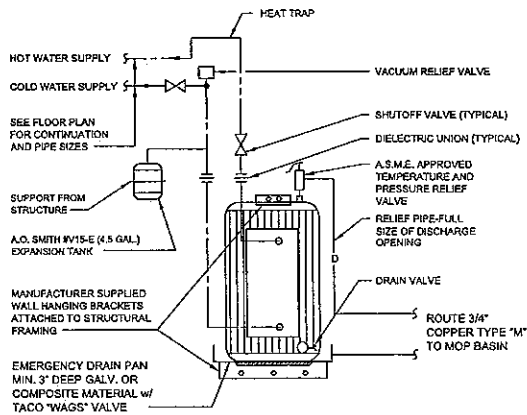
TEST, INSPECT, AND PURGE NATURAL GAS PIPING SYSTEM IN ACCORDANCE TO THE INTERNATIONAL FUEL GAS CODE AND AUTHORITIES HAVING JURISDICTION.

SYMBOL	DESCRIPTION
	UNDERGROUND SOIL & WASTE PIPING
	VENT PIPING
FD 	FLOOR DRAIN (SEE SCHEDULE)
WCO 	WALL CLEANOUT (SEE SCHEDULE)
FCO 	FLOOR CLEANOUT (SEE SCHEDULE)
GCO 	GROUND CLEANOUT (SEE SCHEDULE)
VTR	VENT THROUGH ROOF
V	VENT PIPE
W	WASTE PIPING
S	SANITARY PIPING
G	GAS PIPING
(E)	EXISTING
CW	COLD WATER PIPING
HW	HOT WATER PIPING
P.R.V.	PRESSURE REDUCING VALVE
B.F.P.	BACKFLOW PREVENTER
DWN.	DOWN
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
	POTABLE WATER PIPING
	POTABLE WATER UNDERGROUND PIPING
	110°F HOT WATER PIPING
	PIPE DOWN
	PIPE UP
	P-TRAP

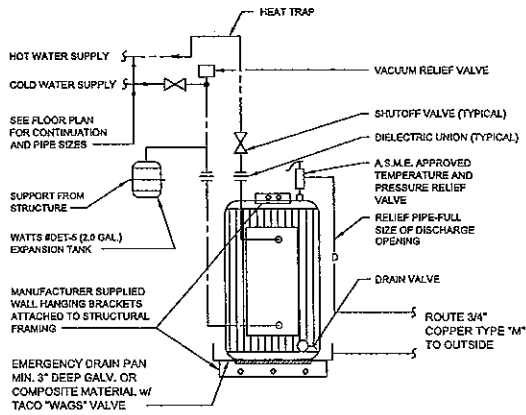
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PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	NOM. PIPE, INCHES				DESCRIPTION
		CW	HW	W	V	
P-1	WALL-HUNG LAVATORY (H.C.)	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD 0355.012 ACCESSIBLE LAVATORY, AMERICAN STANDARD 7385.050 FAUCET, GRID DRAIN, ANGLE STOPS, & 3/8" SUPPLIES, PLUMBEREX HANDY-SHIELD MODEL 2003
P-2	WATER CLOSET (H.C.)	1/2"	-	4"	2"	AMERICAN STANDARD CADET PRO 215AB.104, 1.28 GAL. FLUSH w/ CHURCH 285CT TOILET SEAT, MOUNT FLUSH OPERATOR ON WIDE SIDE OF TOILET.
P-3	MOP BASIN	1/2"	1/2"	3"	2"	FIAT MODEL MSB-2424, FAUCET 830-AA, HOSE & HOSE BRACKET 832-AA, MOP HANGER 889-CC AND STRAINER
P-4	LAUNDRY TUB	1/2"	1/2"	2"	2"	FIAT MODEL FL-1 LAUNDRY TUB w/ MODEL A-1 FAUCET AND STRAINER
P-5	SINGLE BOWL SINK	1/2"	1/2"	2"	1 1/2"	JUST SLX-1815-A OR SINK 18"x15"x9" (4 HOLE), A-35 STRAINER, AMERICAN STANDARD 4175.501.F15 FAUCET, SUPPLIES, STOP VALVES, AND TRAP
IB-1	ICE MAKER VALVE	1/2"	-	-	-	IPS WATER TITE MODEL AB8700
EWH-1	ELEC. WATER HEATER	3/4"	3/4"	-	-	A.O. SMITH MODEL DEL-30, 30 GALLON CAP. NON-SIMULTANEOUS 4500W, 240V/1Ø/50 RECOVERY RATE OF 18 GPH AT A 100° F TEMP. RISE
EWH-2	ELEC. WATER HEATER	3/4"	3/4"	-	-	A.O. SMITH MODEL DEL-20, 20 GALLON CAP. 4500W, 240V/1Ø/50 RECOVERY RATE OF 18 GPH AT A 100° F TEMP. RISE
NOTES: 1. ALL FIXTURES, FITTINGS, AND TRIM TO COMPLY WITH THE LATEST REVISION OF THE AMERICAN DISABILITIES ACT, WHERE APPLICABLE. 2. RIM HEIGHT SHALL COMPLY w/ ADA REQUIREMENTS AND STANDARD MANUFACTURER RECOMMENDED INSTALLATION HEIGHTS FOR NON-ADA FIXTURES.						



1 SCHEMATIC - ELECTRIC WATER HEATER  
P-201  
NO SCALE



2 SCHEMATIC - ELECTRIC WATER HEATER  
P-201  
NO SCALE

FLOOR DRAIN & CLEANOUT SCHEDULE			
SYMBOL	J.R. SMITH SERIES NO.	PROVIDE	NOTES
FD	2010-B	① ②	
GCO	4237		
FCO	4040		
WCO	4452-U		
FLOOR DRAIN & CLEANOUT ACCESSORIES			
①	PROVIDE MANUFAC. RECOMMENDED STRAINER SIZE BASED ON OUTLET SIZE		② PROSET TRAP GUARD INSERT

- NOTES:
- PROVIDE PROSET "T-RITE" DRAINS ON ALL FLOOR/SHOWER/HUB DRAINS THAT ARE THROUGH PENETRATION OF A FIRE RATED FLOOR.
  - COORDINATE FLOOR FINISHES w/ FLOOR DRAINS AND FLOOR CLEANOUTS. (ADJUST FLOOR DRAIN AND FLOOR CLEANOUT ELEVATIONS AS REQUIRED)

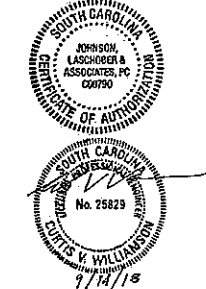
HANGERS & SUPPORTS				
SPACING: DO NOT EXCEED THE FOLLOWING SPACING, ON CENTERS				
PIPE SIZE	SCH. 40 PVC	COPPER	STEEL	HANGER ROD DIA.
1/2" - 3/4"	4 FT.	5 FT.	7 FT.	1/4"
1"	4 FT.	6 FT.	7 FT.	1/4"
1 1/2"	4 FT.	6 FT.	9 FT.	3/8"
2"	4 FT.	8 FT.	10 FT.	3/8"
2 1/2"	4 FT.	9 FT.	11 FT.	3/8"
3"	4 FT.	10 FT.	12 FT.	3/8"
4"	4 FT.	10 FT.	12 FT.	1/2"

WATER HAMMER ARRESTER SCHEDULE	
SYMBOL	FIXTURE UNIT RATING
PDI "A"	1-11
PDI "B"	12-32
PDI "C"	33-60
PDI "D"	61-113
PDI "E"	114-154
PDI "F"	155-330

NOTE:  
USE METAL-BELLOWS TYPE WITH PRESSURIZED METAL CUSHIONING CHAMBER, COMPLYING WITH STANDARD P.D.I. WH-201.

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CLIENT: NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA  
PROJECT NAME: TOWN HALL POLICE - CITY OF WHITMIRE  
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178



ISSUED FOR CONSTRUCTION	
REV	DATE
0	09/14/16

PROJECT NO. 3606.1704  
DRAWN BY: WBR  
CHECKED BY: CVW  
DATE: 12/11/17  
SHEET TITLE: PLUMBING SCHEDULES AND DETAILS

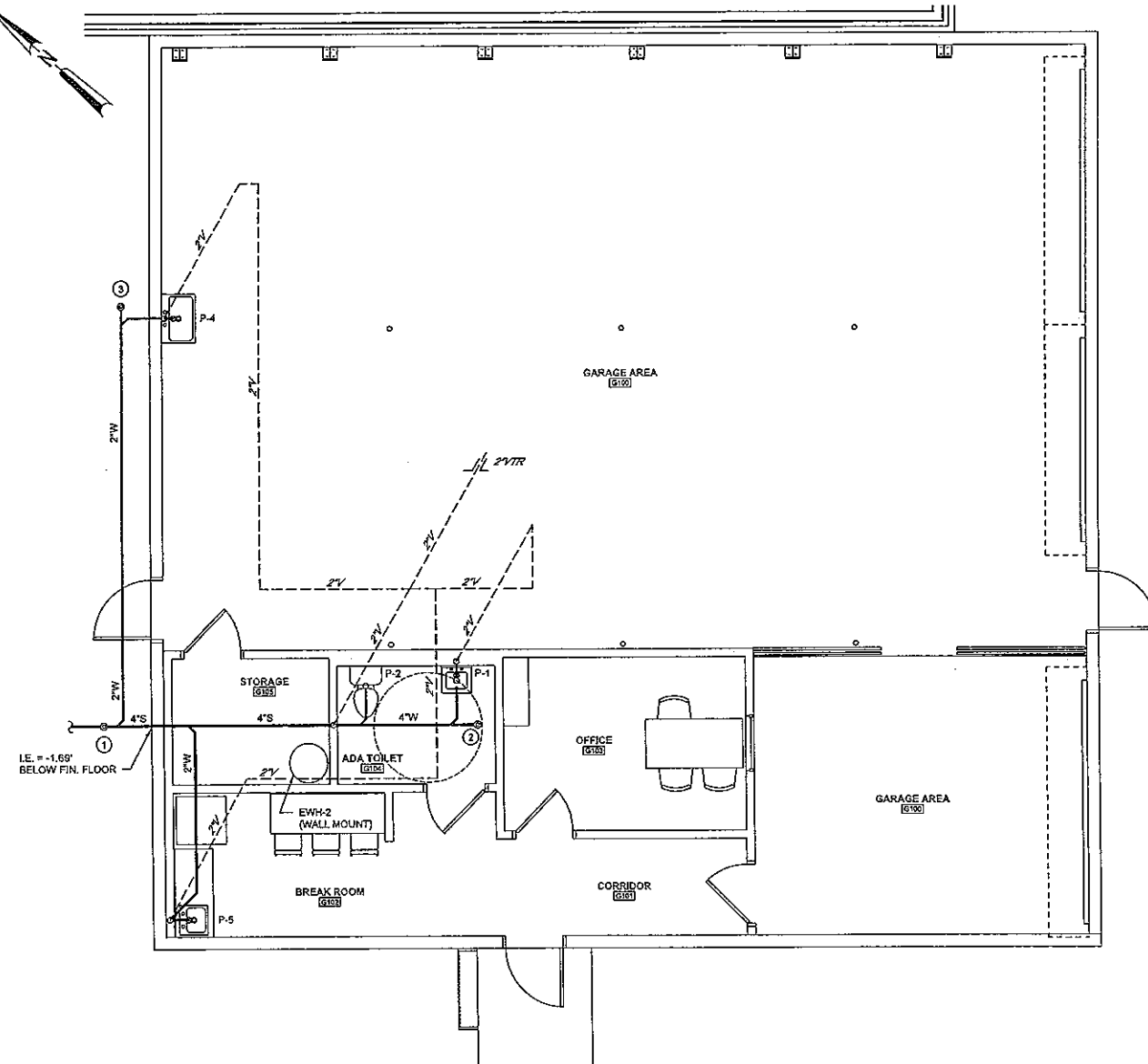
SCALE: AS NOTED  
DRAWING NO. P-201  
REV. 0

# WASTE PIPING NOTES:

- 1 - 4" GCO
- 2 - 4" FCO
- 3 - 2" GCO

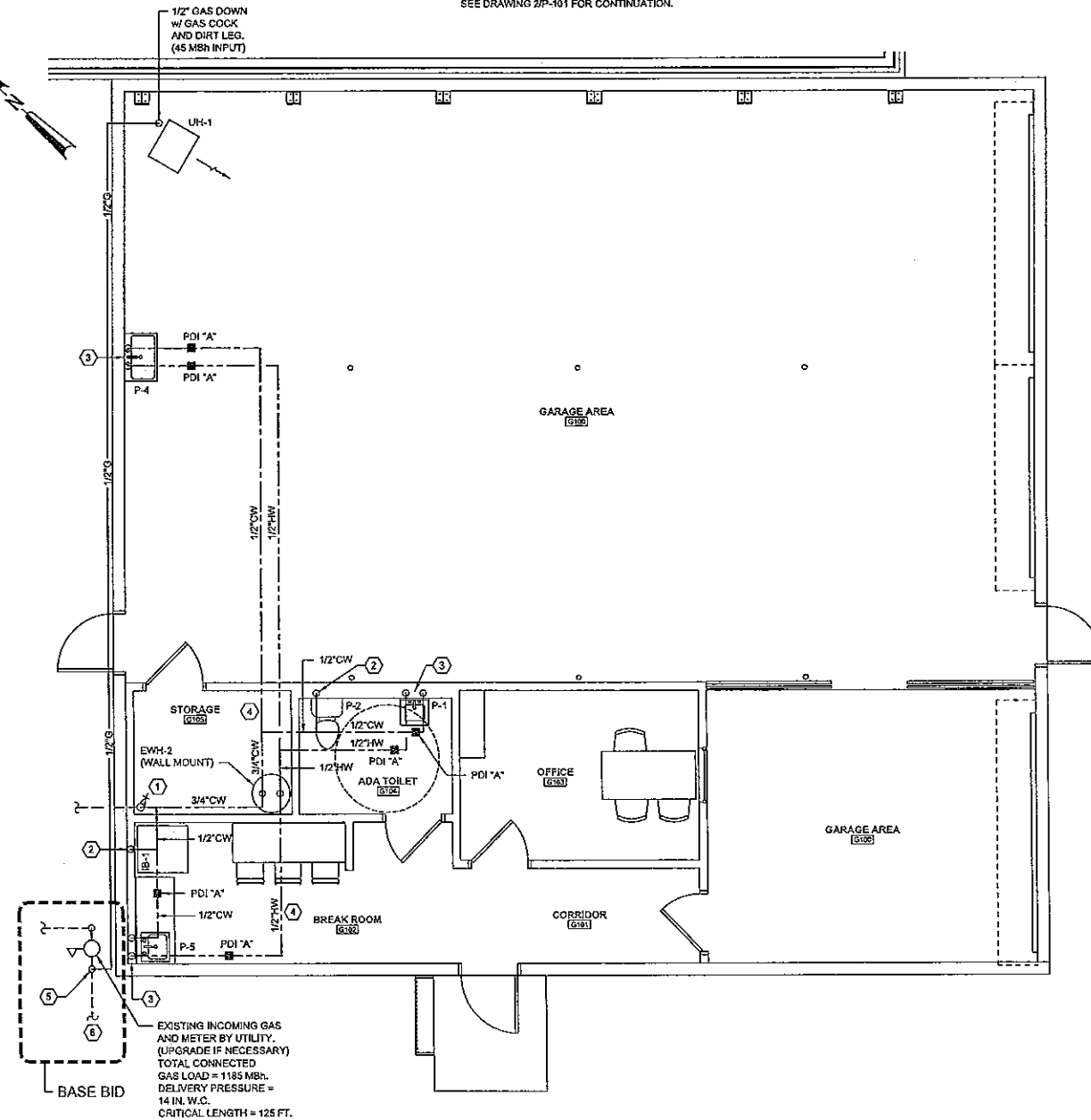
# POTABLE WATER & GAS PIPING NOTES:

- 1 - 1" WATER UP THRU SLAB w/ SLEEVE. (COORDINATE w/ GENERAL CONTRACTOR) PROVIDE SHUT-OFF VALVE AND B.F.P. (PROVIDE P.R.V. IF WATER PRESSURE  $\geq$  80 psi. PLUMBING CONTRACTOR TO VERIFY WATER PRESSURE IN THE FIELD).
- 2 - 1/2" CW DOWN
- 3 - 1/2" CW & HW DOWN
- 4 - POTABLE WATER PIPING IS LOCATED ABOVE CEILING. (TYP. U.N.O.)
- 5 - NEW 1/2" G UP AND 2 1/2" G DOWN
- 6 - NEW 2 1/2" G (UNDERGROUND) TO MAIN BUILDING (APPROX. 60 FT., FIELD VERIFY). SEE DRAWING 2/P-101 FOR CONTINUATION.



- NOTES:
1. SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE RUN-OUT SIZES.
  2. PLUMBING CONTRACTOR SHALL COORDINATE UNDERGROUND PIPING WITH STRUCTURAL COLUMN AND FOOTING LOCATIONS. REROUTE PIPING AS NECESSARY TO AVOID INTERFERENCES.

1 WASTE PIPING PLAN  
SCALE: 1/4" = 1'-0"



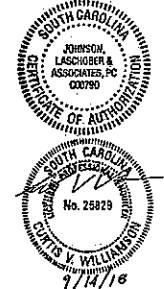
- NOTE:
1. SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE RUN-OUT SIZES.

2 POTABLE WATER AND GAS PIPING PLAN  
SCALE: 1/4" = 1'-0"

0 1 2 4 8 12 FT.  
SCALE: 1/4" = 1'-0"



CLIENT: NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA  
PROJECT NAME: TOWN HALL POLICE -  
CITY OF WHITMIRE  
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29179



REV	DATE	BY	DESCRIPTION
0	08/14/15	CVW	ISSUED FOR CONSTRUCTION

PROJECT NO. 3606.1704  
DRAWN BY: WBR  
CHECKED BY: CVW  
DATE: 12/11/17

SHEET TITLE:  
ALTERNATE #2  
REAR BUILDING  
PLUMBING PLANS

SCALE: 1/4" = 1'-0"  
DRAWING NO. PALT02  
REV. 0

HVAC GENERAL NOTES:

GENERAL:  
THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PRODUCT INFORMATION FOR THE PLANS READERS CONVENIENCE. SEE PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

WORK COVERED BY THIS DOCUMENT SHALL INCLUDE ALL LABOR, MATERIAL, PRODUCTS, AND SERVICES FOR, AND INCIDENTAL TO, INSTALLATION OF COMPLETE AND OPERATING HVAC SYSTEMS DRAWN OR SPECIFIED.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, NFPA 13, NFPA 90A, NFPA 90B, NFPA 96, 2017 NATIONAL ELECTRICAL CODE, AND 2015 INTERNATIONAL MECHANICAL CODE w/ AMENDMENTS.

ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ARCHITECT OR ENGINEER.

INSTALL ALL MECHANICAL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

ARRANGEMENTS OF MECHANICAL WORK SHALL BE AS SHOWN. DRAWINGS ARE NOT INTENDED TO INDICATE ALL OFFSETS AND FITTINGS. EXAMINE ALL DRAWINGS, INVESTIGATE CONDITIONS TO BE ENCOUNTERED AND ARRANGE WORK ACCORDINGLY; PURVISH AND INSTALL ALL FITTINGS AND OFFSETS.

DRAWINGS ARE NOT INTENDED TO SHOW IN DETAIL EXACT LOCATIONS AND CONNECTIONS FOR EQUIPMENT AND ACCESSORIES. FINAL CONNECTIONS SHALL BE AS SHOWN ON APPROVED SHOP DRAWINGS.

MEASUREMENT OF DRAWINGS BY SCALE SHALL NOT BE USED AS DIMENSIONS FOR FABRICATION, MEASUREMENTS FOR LOCATING EQUIPMENT, DUCTWORK, PIPING AND ACCESSORIES SHALL BE MADE ON THE JOB SITE AND SHALL BE BASED ON ACTUAL JOB CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASUREMENTS. WHERE THE CONTRACTOR PREFABRICATES ANY WORK BASED ON THE DRAWINGS WITHOUT VERIFYING ACTUAL JOB CONDITIONS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INVOLVED IN MAKING CHANGES TO PREFABRICATED WORK WHERE CONFLICTS OCCUR.

THE CONTRACTOR SHALL CHECK CEILING HEIGHTS IN EACH SPACE ON ARCHITECTURAL DRAWINGS AND SHALL ARRANGE ALL MECHANICAL WORK TO FIT IN THE SPACE ABOVE THE CEILING ALLOWING FOR ACCESS TO REMOVE TILE. PARTICULAR ATTENTION SHALL BE DIRECTED TOWARD DUCT SIZES AS SHOWN ON DRAWINGS, TO VERIFY THAT DUCTWORK ALONG WITH ALL OTHER WORK WILL FIT IN THE SPACE ABOVE THE CEILINGS. AFTER VERIFYING DIMENSIONS, IF THE CONTRACTOR DETERMINES THAT THE WORK WILL NOT FIT IN THE SPACE INDICATED, THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF THE CONFLICT AND SHALL NOT INSTALL ANY WORK UNTIL INSTRUCTIONS ARE RECEIVED FROM THE ARCHITECT/ENGINEER. IF THE CONTRACTOR INSTALLS WORK AS SHOWN ON DRAWINGS WITHOUT VERIFYING ADEQUACY OF SPACES, AND THE WORK DOES NOT FIT THE SPACE SHOWN, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR REARRANGING WORK AND CHANGING DUCT SIZES AS REQUIRED TO FIT THE SPACE AND THE CONTRACTOR SHALL PAY ALL COSTS CONNECTED WITH THE CHANGES.

CONTRACTOR SHALL INSTALL DUCTS, PIPING AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER AND SHALL AVOID CONFLICT WITH OTHER WORK. EQUIPMENT SHALL BE SO ARRANGED AND FITTED INTO AVAILABLE SPACE SO THAT WORKING PARTS INCLUDING FILTERS AND LUBRICATION POINTS, AND COIL REMOVAL ARE ACCESSIBLE FOR SERVICE WITHOUT DAMAGE TO BUILDING STRUCTURE OR FINISHES OR WITHOUT MOVING OTHER EQUIPMENT. THE CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT WHERE PARTS ARE INACCESSIBLE FOR SERVICE.

WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE MAXIMUM HEADROOM POSSIBLE.

EXACT LOCATION OF GRILLES & CEILING OUTLETS SHALL BE DETERMINED ON THE JOB. COORDINATE WITH LIGHTS AND ARCHITECTURAL REQUIREMENTS TO PROVIDE A UNIFORM & SYMMETRICAL APPEARANCE. REFER TO ARCHITECTURAL & ELECTRICAL DRAWINGS & DETAILS.

CUTTING AND REPAIRING: THE HVAC CONTRACTOR SHALL DO ALL CUTTING AND REPAIRING OF WALLS, FLOORS, CEILINGS, ETC. NECESSARY FOR THE INSTALLATION OF THE WORK BUT HE SHALL NOT CUT INTO ANY STRUCTURAL MEMBER WITHOUT THE PERMISSION OF THE ARCHITECT.

PROVIDE UNION OR FLANGE CONNECTIONS IN PIPING AT ALL EQUIPMENT & AS REQUIRED FOR SERVICE.

GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE, ABOVE CEILING DAMPERS AND EQUIPMENT. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

METAL DUCT:  
ALL DUCTWORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH SMACNA, NFPA BULLETIN 90A, AND ASHRAE GUIDES. UNLESS OTHERWISE NOTED, DUCTWORK SHALL BE GALVANIZED SHEET STEEL. FIBERGLASS DUCTWORK IS NOT ACCEPTABLE.

ALL EXPOSED SUPPLY AND RETURN DUCTWORK SHALL BE RECTANGULAR GALVANIZED LINED DUCT WITH PAINT GRIP PRIMER OR DOUBLE WALL INSULATED SPIRAL DUCT WITH PAINT GRIP PRIMER, U.N.O..

MINIMUM DUCTWORK STATIO PRESSURE CLASS SHALL BE 2-INCH W.G. MINIMUM DUCT SEAL CLASS SHALL BE CLASS "A".

ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. ON RECTANGULAR DUCTS, DIMENSIONS GIVEN FIRST IS DIMENSION SEEN. DUCT DIMENSIONS MAY BE ALTERED AS LONG AS SAME DUCT CROSS SECTIONAL AREA IS MAINTAINED, IN ORDER TO AVOID INTERFERENCES AS NEEDED.

LOW PRESSURE FLEXIBLE DUCT: FACTORY FABRICATED ASSEMBLY, UL-181, CLASS 1 LISTED, HAVING A MINIMUM R-VALUE OF 4.2, EQUAL TO THERMAFLEX "10M". CONNECT DIFFUSERS TO DUCTS WITH MAXIMUM 80-INCH LENGTHS OF FLEXIBLE DUCT CLAMPED OR STRAPPED IN PLACE.

MANUAL VOLUME DAMPERS: DAMPERS SHALL BE SAME MATERIAL AS DUCTWORK, PER SMACNA. PROVIDE AXLES FULL LENGTH OF DAMPER BLADES AND BEARINGS AT BOTH ENDS OF OPERATING SHAFT. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS (ONE PER SUPPLY AND RETURN OUTLET).

FLEXIBLE CONNECTIONS: GLASS FABRIC DOUBLE COATED WITH NEOPRENE, 26 OZ. PER SQUARE YARD, COMPLYING WITH UL 181, CLASS 1. PROVIDE FLEXIBLE CONNECTION BETWEEN ALL EQUIPMENT AND RIGID DUCTWORK. FABRIC CONNECTIONS SHALL BE AT LEAST 3.5 INCHES WIDE AND HAVE A METAL-EDGED CONNECTOR AT EACH END. PROVIDE METAL COMPATIBLE WITH CONNECTED DUCTS.

TURNING VANES: GALVANIZED STEEL, COMPLYING WITH SMACNA. VANES SHALL BE SINGLE WALL FOR DUCTS UP TO 48 INCHES WIDE AND DOUBLE WALL FOR LARGER DIMENSIONS. ALL 90 DEGREE SQUARE ELBOWS AND TEES SHALL HAVE TURNING VANES (SUPPLY & RETURN DUCT).

DUCT INSULATION: ALL CONCEALED SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH 2.2 INCH THICK MINERAL FIBER BLANKET INSULATION, ASTM C533 TYPE II AND ASTM C1290 TYPE III, WITH FACTORY-APPLIED FSK JACKET AND 34 LB. NOMINAL DENSITY, EQUAL TO CERTANTEED "SOFTTOUCH DUCT WRAP".

ALL OUTDOOR SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH 1.5 INCH THICK MINERAL FIBER BOARD INSULATION, ASTM C512 TYPE IA OR TYPE IB, WITH FACTORY-APPLIED FSK JACKET AND 2 LB. NOMINAL DENSITY, EQUAL TO CERTANTEED "CERTAPRO COMMERCIAL BOARD". INSTALL FIELD-APPLIED ALUMINUM JACKET, 0.0020 INCH THICK, OVER INSULATION MATERIAL ON ALL OUTDOOR SUPPLY AND RETURN DUCTS.

DUCT LINER (NON-ACOUSTIC) SHALL BE 1 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC DUCT LINER, COMPLYING WITH ASTM C534 TYPE II AND NFPA 90A OR NFPA 90B, EQUAL TO ARMACELL "AP ARMAFLEX".

ACOUSTIC DUCT LINER SHALL BE 1 INCH THICK FLEXIBLE CLOSED-CELL ELASTOMERIC DUCT LINER, COMPLYING WITH ASTM C534 TYPE II AND NFPA 90A OR NFPA 90B, EQUAL TO ARMACELL "AP COILFLEX".

CONDENSATE DRAIN PIPING:  
ALL CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS, CONFORMING TO ASTM D 1785, ASTM D 2466, AND ASTM 2564.

CONTROLS:  
PROVIDE AND INSTALL CONTROL WIRING AND 7-DAY PROGRAMMABLE THERMOSTATS AS REQUIRED UNLESS OTHERWISE SPECIFIED. MOUNT THERMOSTATS 4'-0" A.F.F.

ELECTRICAL:  
ALL EQUIPMENT FURNISHED UNDER THIS DIVISION SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE REQUIREMENTS OF DIVISION 26. ALL POWER WIRING AND FINAL POWER CONNECTIONS TO THE SYSTEM SHALL BE PROVIDED UNDER DIVISION 26. CONTROL WIRING (120V AND LESS) SHALL BE PROVIDED UNDER DIVISION 23 AND EXTEND FROM THE INDICATED 120V POWER CIRCUIT INDICATED ON THE ELECTRICAL DRAWINGS. ALL ELECTRICAL CHARACTERISTICS SHALL BE TAKEN FROM THE ELECTRICAL DRAWINGS AND SPECIFICATIONS AND COORDINATED PRIOR TO ORDERING THE EQUIPMENT. ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM-RATED CABLE OR INSTALLED IN CONDUIT.

MOTORS AND STARTERS:  
PROVIDE MOTORS, STARTERS, VARIABLE FREQUENCY DRIVES, PUSH BUTTONS, THERMAL

OVERLOAD SWITCHES, AND CONTACTORS FOR EQUIPMENT COVERED HEREIN UNLESS OTHERWISE SPECIFIED. INSTALLATION OF STARTERS, PUSH BUTTONS, THERMAL OVERLOAD SWITCHES, AND CONTACTORS (NOT FACTORY INSTALLED) IS SPECIFIED UNDER DIVISION 26.

CLEANING AND ADJUSTING:  
CLEAN ALL GREASE, OIL, PAINT, AND OTHER CONSTRUCTION DEBRIS FROM THE EXTERIOR SURFACES OF ALL MECHANICAL EQUIPMENT, PIPING, AND DUCTS. CLEAN ALL DUCTS, PLENUMS, AND CASINGS OF DEBRIS AND BLOWN FREE OF ALL PARTICLES OF RUBBISH AND DUST PRIOR TO INSTALLATION OF OUTLET FACES.

BEARINGS THAT REQUIRE LUBRICATION SHALL BE LUBRICATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL CONTROL EQUIPMENT SHALL BE ADJUSTED TO THE SETTINGS INDICATED OR REQUIRED FOR PERFORMANCE AS SPECIFIED. REMOVE ALL STICKERS, RUST, STAINS, LABELS, AND TEMPORARY COVERS BEFORE FINAL ACCEPTANCE. REMOVE FOREIGN MATTER FROM EQUIPMENT, PIPING AND DUCTWORK SYSTEMS AND APPURTENANCES. CLEAN AND POLISH IDENTIFICATION PLATES.

REMOVE ALL TRASH AND DEBRIS FROM THE JOBSITE ON A DAILY BASIS.

TESTING, ADJUSTING, AND BALANCING:  
ALL WORK SHALL BE TESTED AND BALANCED BY AN INDEPENDANT CERTIFIED TAB SPECIALIST. TAB SPECIALIST SHALL BE CERTIFIED BY AABC, NEBB, OR TAB8.

SUBMIT FINAL TEST AND BALANCE REPORT FOR REVIEW AND APPROVAL PRIOR TO TURN-OVER OF FINAL PROJECT.

HVAC LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER
	RETURN AIR GRILLE
	SIDEWALL GRILLE
	CEILING MOUNTED EXHAUST FAN
	MARK/CFM (SEE DIFFUSER/GRILLE SCHEDULE)
	DUCT SIZE (WIDTHxHEIGHT)
	MANUAL VOLUME DAMPER
	THERMOSTAT, WALL MOUNTED
	ROUND (DIAMETER)
	AIR FLOW DIRECTION
	FLEX DUCT (LOW PRESSURE)
	NEW DUCTWORK
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OA	OUTDOOR AIR
U.N.O.	UNLESS NOTED OTHERWISE

DESIGN CONDITIONS			
	SUMMER	WINTER	COMMENTS
INDOORS	75°F db 50%RH	70°F db	①②
OUTDOORS	94°F db 175°F wb	21°F db	①②③

- ① OUTDOOR AIR QUANTITIES BASED ON ASHRAE 62.1-2013
- ② VENTILATION RATES BASED ON ASHRAE 62.1-2013
- ③ BASED ON SOUTH CAROLINA ENERGY CODE

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WWW.THEJLAGROUP.COM

CLIENT: NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA  
PROJECT NAME: TOWN HALL POLICE -  
CITY OF WHITMIRE  
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178

SOUTH CAROLINA  
STATE OF AUTHORIZATION  
JOHNSON, LASCHOB &  
ASSOCIATES, P.C.  
000199  
SOUTH CAROLINA  
No. 25829  
D. V. WILLIAMS  
9/18/18

ISSUED FOR CONSTRUCTION		DESCRIPTION	
DATE	BY	DATE	BY
09/14/18	CVW		
0	REV		

PROJECT NO. 3606.1704  
DRAWN BY: MNB  
CHECKED BY: CVW  
DATE: 12/11/17  
SHEET TITLE:  
**HVAC GENERAL  
NOTES AND  
LEGEND**  
SCALE: AS NOTED  
DRAWING NO. **M-001** REV. 0

PACKAGED GAS/ELECTRIC UNIT SCHEDULE													
MARK	BASIS OF DESIGN (TRANE P/N)	NOMINAL CFM	O.A. CFM	E.S.P. "W.C.	COOLING MBH		HEATING		EER/ SEER MIN.	ELECTRICAL			NOTES
					TOTAL	SENSIBLE	INPUT MBH	MINIMUM EFFICIENCY		MCA	MOCF	V/ø/Hz	
RTU-1	4YCC4060	2,000	150	0.5	58.0	45.5	90.0	81	11.5/14.0	39.1	80	230/1/60	①②③④
RTU-2	4YCC4060	2,000	160	0.5	58.0	45.5	90.0	81	11.5/14.0	39.1	80	230/1/60	①②③④

- ① HORIZONTAL DISCHARGE      ③ PROVIDE UNIT WITH MOTORIZED OUTDOOR AIR DAMPER      ⑤ MOCF IS FOR FUSE SIZE  
 ② ECONOMIZER WITH MOTORIZED DAMPER AND BAROMETER RELIEF      ④ MIN MERV 6 FILTER

AIR DISTRIBUTION DEVICE SCHEDULE												
MARK	SIZE (INCHES)		MOUNTING			THROW	MATERIAL		DEVICE CONN.			NOTES
	FACE	NECK	SIDEWALL	CEILING	DUCT		STEEL	ALUM.	1	2	3	
SD-1	12/12	6"Ø		X		4	X		X			①②
SD-2	24/24	6"Ø		X		4	X		X			①②
SD-3	24/24	8"Ø		X		4	X		X			①②
SD-4	8/6	8/6			X	1	X			X		①②
SD-5	8/6	8/6	X			1	X			X		①
SD-6	24/24	10"Ø		X		4	X		X			①②
RG-1	12/12	8/6		X		-	X			X		①②
RG-2	24/24	8/6		X		-	X			X		①②
RG-3	24/24	8/6		X		-	X			X		①②
RG-4	24/24	12/12		X		-	X			X		①②
RG-5	24/24	22/22		X		-	X			X		①②
RG-6	8/6	8/6			X	-	X			X		①②
RG-7	12/6	12/6	X			-	X			X		①
RG-8	24/24	10/10		X		-	X			X		①②
EG-1	10/10	10/10		X		-	X			X		①
EG-2	12/12	8/6		X		-	X			X		①②

LEGEND  
 1. SYMBOL KEY - FIRST LETTER: S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER AND D-DOOR. SECOND LETTER: D-DIFFUSER, R-REGISTER AND G-GRILLE.

2. CONNECTIONS - 1. ROUND DUCT TO ROUND NECK (DEVICE CONN.). 2. ROUND DUCT TO RECTANGULAR NECK (COLUMN). 3. RECTANGULAR DUCT TO RECTANGULAR NECK.  
 3. FIELD PAINT ALL SUPPLIES AND RETURNS TO MATCH CEILING AND/OR WHITE FINISH OTHERWISE.  
 4. 1, 2, 3 AND 4-WAY AND DOUBLE DEFLECTION (DD) AIR DEVICES ARE INDICATED IN "THROW" COLUMN.

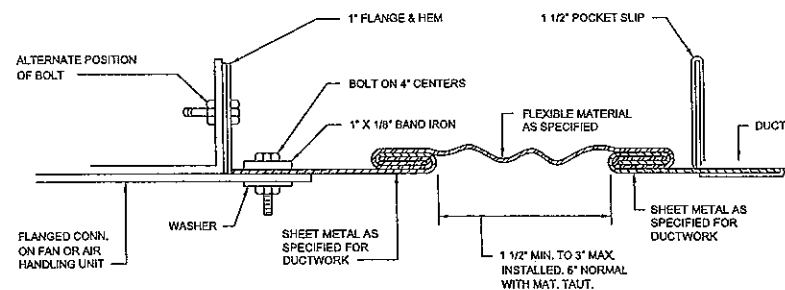
- ① DUCT RUNOUT SIZE SAME AS NECK CONNECTION SIZE, U.N.O.      ② PROVIDE WITH R-6 FOIL-BACKED INSULATION      ③ SEE DETAIL 8M-201      ④ OPPOSED BLADE DAMPER

EXHAUST FAN SCHEDULE											
MARK	BASIS OF DESIGN		TYPE	ESP (IN WC)	NOM. CFM	FRPM	WATTS	HP	SONES	ELECTRICAL V/2/Hz	NOTES
	MANUFACTURER	MODEL NO.									
EF-1	GREENHECK	SP-180	CEILING	0.25	70	850	27	-	2.7	115V/60	①②
EF-2	GREENHECK	SP-180	CEILING	0.25	70	850	27	-	2.7	115V/60	①②
EF-3	GREENHECK	SP-870	CEILING	0.25	50	575	16	-	1.6	115V/60	①②
EF-4	GREENHECK	SQ-70-D	INLINE	0.25	150	1,550	-	1/20	4.6	115V/60	②③④

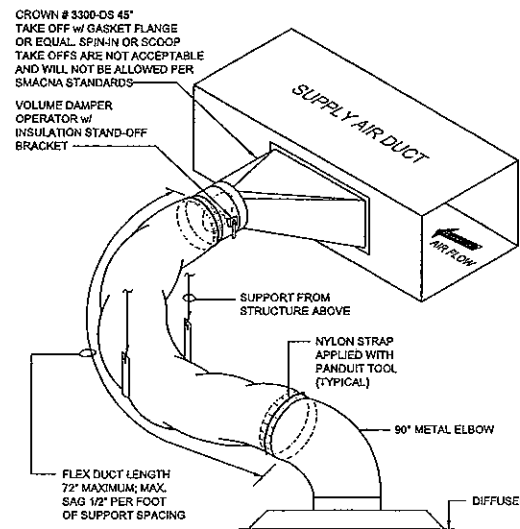
- ① INTERLOCK WITH LIGHTS      ② BACKDRAFT DAMPER      ③ CONTINUOUS OPERATION      ④ MOTOR SIDE GUARD

LOUVER SCHEDULE						
MARK	BASIS OF DESIGN (GREENHECK P/N)	TYPE	CFM	LOUVER SIZE	MIN. FREE AREA (FT <sup>2</sup> )	NOTES
EL-1	ESD-202	EXHAUST	150	12"x12"	0.15	①②③④

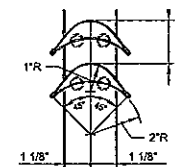
- ① BIRDSCREEN      ② WELDED CONSTRUCTION      ③ FLANGED FRAME      ④ PREFINISH WITH BAKED ON "KYNAR" FINISH



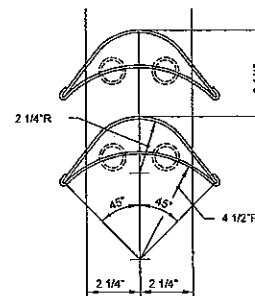
RECTANGULAR FLEXIBLE CONNECTION DETAIL  
NO SCALE



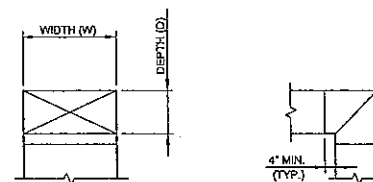
FLEX DUCT TAKE-OFF DETAIL  
NO SCALE



SMALL DOUBLE VANE ELBOW  
USE FOR ELBOWS UP TO 36\"/>



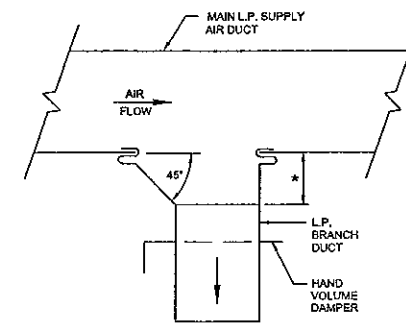
LARGE DOUBLE VANE ELBOW  
USE FOR ELBOWS 36\"/>



FRONT VIEW      SIDE VIEW

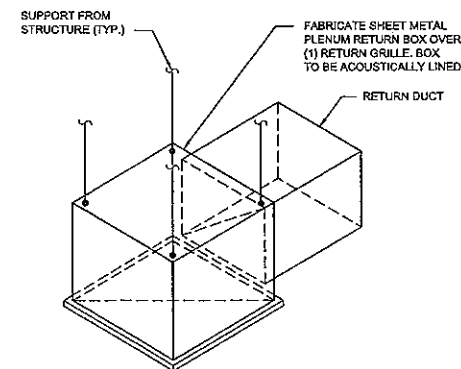
- NOTES:  
 1. ALL SQUARE OR RECTANGLE ELBOWS SHALL HAVE ONE OF THE TWO TYPES OF TURNING VANES SHOWN ABOVE. SINGLE VANE ELBOWS WILL NOT BE PERMITTED, UNLESS SPECIFICALLY INDICATED.  
 2. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.  
 3. ALL SQUARE OR RECTANGLE ELBOWS SHOWN ON PLANS FOR EXHAUST OR RETURN DUCT MAY BE MADE RADIUS ELBOWS PROVIDED SPACE PERMITS RADIUS INSTALLATION.  
 4. ALL SQUARE OR RECTANGLE ELBOWS SHOWN ON PLANS FOR SUPPLY DUCT MAY BE MADE RADIUS ELBOWS PROVIDED SPACE PERMITS RADIUS INSTALLATION AND/OR THERE ISN'T AN OUTLET OR TAKE-OFF WITHIN 50' ON THE DOWNSTREAM SIDE OF THE ELBOW.

DETAIL - TYPICAL ELBOW  
NO SCALE

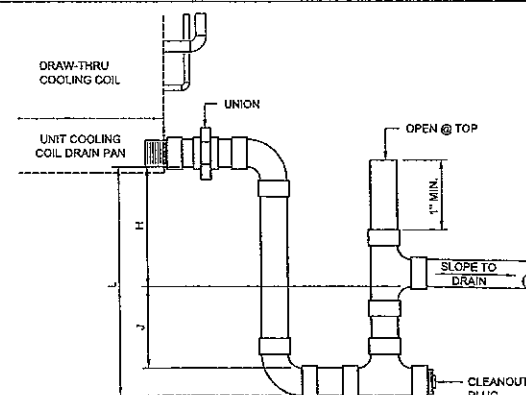


\* - EQUALS 1/4 WIDTH OF BRANCH DUCT, 4\"/>

DETAIL - TYPICAL LOW PRESSURE  
BRANCH DUCT TAKE OFF  
NO SCALE



DETAIL - ONE GRILLE RETURN PLENUM BOX  
NO SCALE



- NOTES:  
 1. DRAIN LINE CONNECTION SIZE SAME AS UNIT DRAIN SIZE.  
 2. EXTEND DRAIN PIPING TO SPECIFIED LOCATION ON HVAC PLAN.  
 3. DRAIN LINE TO BE SUPPORTED EVERY 4' WITH 3/8\"/>

DETAIL - CONDENSATE DRAIN TRAP  
NO SCALE      NEGATIVE PRESSURE TRAP

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 FAX (706) 724-3555  
 WWW.THEJLAGROUP.COM

CLIENT: NEWBERRY COUNTY  
 NEWBERRY, SOUTH CAROLINA  
 PROJECT NAME: TOWN HALL POLICE - CITY OF WHITMIRE  
 PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178



REV	DATE	BY	DESCRIPTION
0	09/14/18	CWV	ISSUED FOR CONSTRUCTION

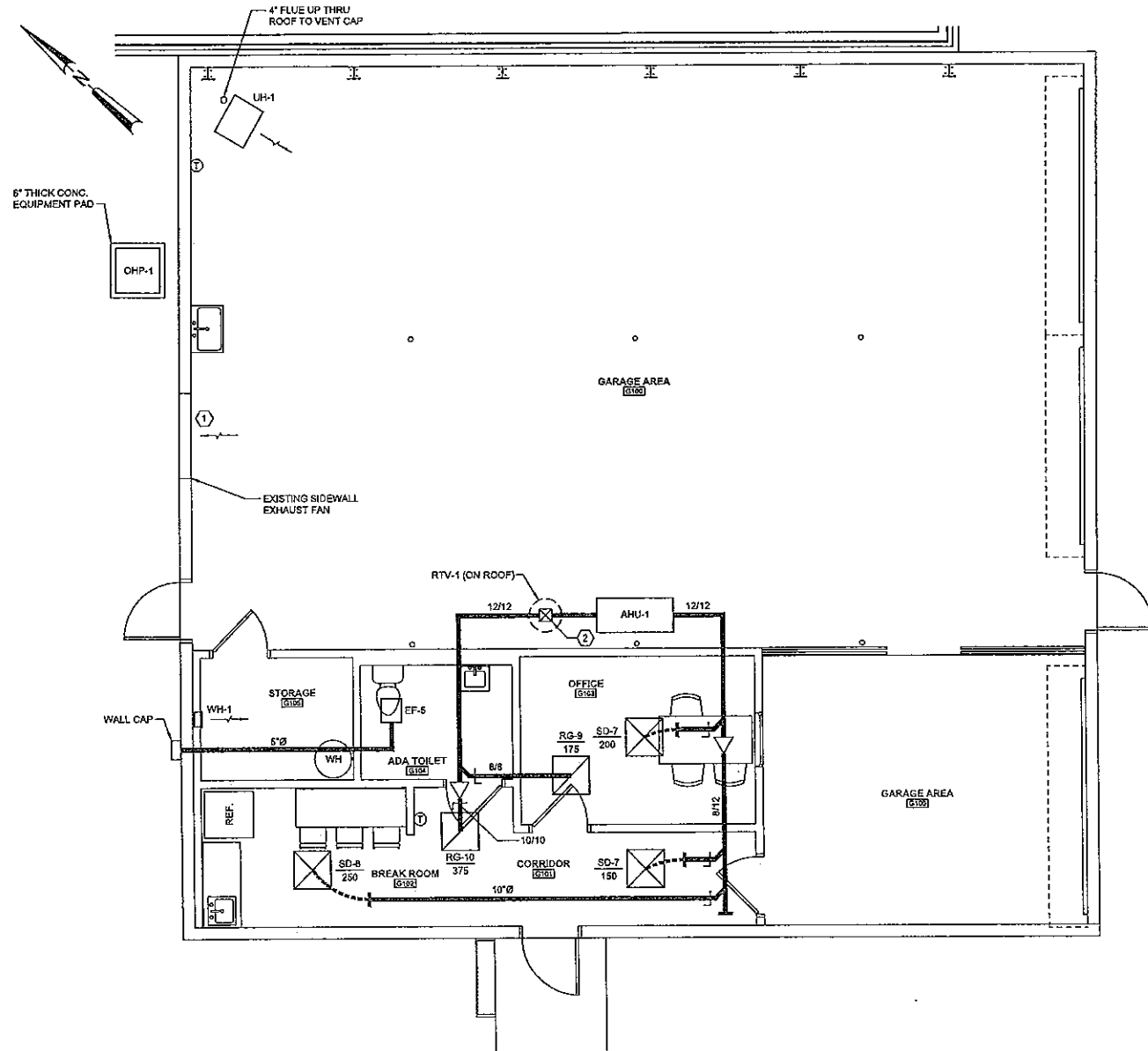
PROJECT NO. 3606.1704  
 DRAWN BY: MNB  
 CHECKED BY: CWV  
 DATE: 12/11/17  
 SHEET TITLE:

**HVAC SCHEDULES AND DETAILS**

SCALE: AS NOTED  
 DRAWING NO. M-201  
 REV. 0

# HVAC CONSTRUCTION NOTES:

- EXISTING SIDEWALL EXHAUST FAN TO REMAIN. REMOVE AND REPLACE BACKDRAFT DAMPER.
- 8/8 OA DUCT DOWN FROM RTV-1 ON ROOF. PROVIDE MANUAL VOLUME DAMPER IN OA DUCTWORK.



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

## AIR HANDLING UNIT SCHEDULE

MARK	BASIS OF DESIGN		NOM. CFM	MAX. O/A	E.S.P. "W.C.	EMERGENCY STRIP HEAT KW @ 240V	ELECTRICAL (SINGLE POINT CONN.)			NOTES
	MANUFACTURER	MODEL NO.					MCA	MOCP	V/Ø/Hz	
AHU-1	TRANE	GAH80A18M	600	50	0.5	3.84	24	25	230/1/60	020

- FIELD ROUTE CONDENSATE DRAIN PIPING TO OUTDOORS
- FIELD ROUTE REFRIGERANT PIPING TO CORRESPONDING OHP U.N.O.
- MIN. MERV 6 FILTER

## OUTDOOR HEAT PUMP UNIT SCHEDULE

MARK	BASIS OF DESIGN		COOLING MBH		HEATING BTU/HR HI TEMP.	REFRIG. O.D.		SEER MIN.	ELECTRICAL			NOTES
	MANUFACTURER	MODEL NO.	TOTAL	SENSIBLE		LIQUID	SUCTION		MCA	MOCP	V/Ø/Hz	
OHP-1	TRANE	4TWR4018D	17.5	13.7	11,200	3/8	3/4	14.5	12	20	230/1/60	

## GAS UNIT HEATER SCHEDULE

MARK	BASIS OF DESIGN (REZNOR P/N)	HEATING		CFM	ELEVATION (A.F.F.)	ELECTRICAL		QUANTITY	NOTES
		INPUT MBH	MIN. EFF.			AMPS	V/Ø/Hz		
UH-1	UDAS-45	45.0	83.0	630	10' 0"	2.4	115/1/60	1	020

- HORIZONTAL DISCHARGE.
- POWER DISCONNECT SWITCH.
- PROVIDE SINGLE-STAGE ROOM THERMOSTAT WITH SUMMER/ WINTER SWITCH.

## ELECTRIC WALL HEATER SCHEDULE

MARK	BASIS OF DESIGN (QMARK P/N)	BTU/HR	WATTS	AMPS	ELECTRICAL V/Ø/Hz	NOTES
WH-1	CWH1101DSF	3,400	1,000	8.4	115/1/60	02

- DISCONNECT SWITCH
- CONTROLLED BY INTEGRAL TAMPER RESISTANT THERMOSTAT

## EXHAUST FAN SCHEDULE

MARK	BASIS OF DESIGN		TYPE	ESP (IN WC)	NOM. CFM	FRPM	WATTS	SONES	ELECTRICAL V/Ø/Hz	NOTES
	MANUFACTURER	MODEL NO.								
EF-5	GREENHECK	SP-180	CEILING	0.25	70	850	27	2.7	115/1/60	02

- INTERLOCK WITH LIGHTS
- BACKDRAFT DAMPER

## AIR DISTRIBUTION DEVICE SCHEDULE

MARK	SIZE (INCHES)		MOUNTING			THROW	MATERIAL		DEVICE CONN.			BASIS OF DESIGN		NOTES
	FACE	NECK	SIDEWALL	CEILING	DUCT		STEEL	ALUM.	1	2	3	MANUF.	MODEL NO.	
SD-7	24/24	8/8		X		4	X		X			TITUS	TMS	02
SD-8	24/24	10/10		X		4	X		X			TITUS	TMS	02
RG-9	24/24	8/8		X		-	X			X		TITUS	PAR	02
RG-10	24/24	10/10		X		-	X			X		TITUS	PAR	02

- LEGEND
- SYMBOL KEY - FIRST LETTER: S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER AND D-DOOR. SECOND LETTER: D-DIFFUSER, R-REGISTER AND G-GRILLE.
  - CONNECTIONS - 1. ROUND DUCT TO ROUND NECK. (DEVICE CONN. 2. ROUND DUCT TO RECTANGULAR NECK. COLUMNS) 3. RECTANGULAR DUCT TO RECTANGULAR NECK.
  - FIELD PAINT ALL SUPPLIES AND RETURNS TO MATCH CEILING AND/OR WHITE FINISH OTHERWISE.
  - 1, 2, 3 AND 4-WAY AND DOUBLE DEFLECTION (DD) AIR DEVICES ARE INDICATED IN "THROW" COLUMN.

- DUCT RUNOUT SIZE SAME AS NECK CONNECTION SIZE, U.N.O.
- PROVIDE WITH R-6 FOIL-BACKED INSULATION

## ROOFTOP VENTILATOR SCHEDULE

MARK	BASIS OF DESIGN (GREENHECK P/N)	TYPE	CFM	THROAT SIZE	THROAT AREA (FT²)	QTY	NOTES
RTV-1	GR51-8	INTAKE	50	8" x 8"	1.3	1	0200

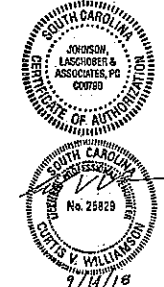
- BIRDSCREEN
- FLASHING FLANGE
- PAINT TO MATCH ROOF COLOR
- BACKDRAFT DAMPER

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CLIENT:  
NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA

PROJECT NAME:  
**TOWN HALL POLICE - CITY OF WHITMIRE**

PROJECT LOCATION:  
210 MAIN STREET, WHITMIRE, SC 29178



REV	DATE	BY	DESCRIPTION
0	09/14/18	CVW	ISSUED FOR CONSTRUCTION

PROJECT NO. 3606.1704  
DRAWN BY: MNB  
CHECKED BY: CVW  
DATE: 12/11/17  
SHEET TITLE:  
**ALTERNATE #2 REAR BUILDING HVAC PLAN**

SCALE: 1/4" = 1'-0"  
DRAWING NO. **MALT02**  
REV. 0

0 5 1 2 4 8 12 FT.  
SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

GENERAL  
THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PRODUCT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

WORK COVERED BY THIS DOCUMENT SHALL INCLUDE ALL LABOR, MATERIAL, PRODUCTS, AND SERVICES FOR, AND INCIDENTAL TO, INSTALLATION OF COMPLETE AND OPERATING ELECTRICAL SYSTEMS DRAWN OR SPECIFIED.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE (NFPA 70-2014). ALL MATERIALS SHALL BE NEW AND UL LISTED/LABELED AS APPROPRIATE. FINAL LOCATIONS FOR ROUGH-INS SHALL BE VERIFIED WITH ACTUAL EQUIPMENT BEING CONNECTED, SUPPORT AND ATTACH ELECTRICAL EQUIPMENT IN ACCORDANCE WITH SEISMIC CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER/BUILDING DESIGNER AND THE INTERNATIONAL BUILDING CODE 2015. AFTER COMPLETING INSTALLATION, REMOVE BURRS, DIRT, AND CONSTRUCTION DEBRIS FROM ALL ELECTRICAL WORK.

COORDINATE OUTLET LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

COORDINATE HVAC AND PLUMBING EQUIPMENT LOCATIONS WITH MECHANICAL PLANS, ELEVATIONS AND DETAILS.

COORDINATE SITE LIGHTING AND SITE UTILITIES WITH LANDSCAPING/CIVIL PLANS AND DETAILS.

ALL SIGNAL RACEWAYS SHALL BE 3/4" DIA. MIN. UNLESS OTHERWISE NOTED.

COORDINATE ELECTRICAL SERVICE AND METERING REQUIREMENTS WITH SERVING UTILITY PRIOR TO BID AND INSTALLATION.

COORDINATE SIGNAL SERVICE REQUIREMENTS WITH SERVING UTILITY.

ELECTRICAL INSTALLATION SHALL BE SEISMIC BRACED PER APPLICABLE SECTIONS OF THE STANDARD BUILDING CODE.

CONSULT MANUFACTURERS' SHOP DRAWINGS FOR REQUIREMENTS AND EXACT LOCATION OF ELECTRICAL CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS. BRANCH-CIRCUIT WIRING SHALL MEET ALL REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.

SIZE DISCONNECT SWITCHES AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AND THE N.E.C.

SIZE FUSES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AND THE N.E.C.

INSTALL JUNCTION BOXES, CONDUIT BODIES, AND HANDHOLE ENCLOSURES SUCH THAT WIRING WITHIN IS ACCESSIBLE IN ACCORDANCE WITH NEC 314.28.

MOUNTING HEIGHT DIMENSIONS FOR WIRING DEVICES ARE FROM THE FINISHED FLOOR UP TO THE CENTER OF THE OUTLET BOX.

CENTER OUTLETS HORIZONTALLY IN ARCHITECTURAL FEATURES.

DO NOT SCALE DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE UNLESS DIMENSIONED. ACTUAL DEVICE LOCATIONS SHALL BE FIELD COORDINATED WITH ALL OTHER TRADES AND APPLICABLE CODES.

INSTALL PHOTO CELL(S) ABOVE ROOF. ORIENT TO NORTHERN EXPOSURE AND SHIELD FROM EXTRANEOUS LIGHT. PROVIDE FLASHING AND SEAL ROOF PENETRATION(S).

INSTALL ADDITIONAL BRANCH-CIRCUIT CONDUCTORS TO PROVIDE UN-SWITCHED CONNECTION TO EACH EMERGENCY FIXTURE BATTERY.

DO NOT USE COMMON NEUTRALS FOR MULTI-WIRE CIRCUITS. INSTALL A NEUTRAL FOR EACH PHASE.

ALL CONDUCTORS SHALL BE NO SMALLER THAN #12.

GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE, ABOVE-CEILING ELECTRICAL EQUIPMENT AND JUNCTION BOXES PER 2014 NEC SECTION 314.29. COORDINATE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

CONDUCTORS  
INSULATION SHALL COMPLY WITH NEMA WC 5. CONDUCTORS #8 AWG AND LARGER SHALL BE CONCENTRIC STRANDED. CONDUCTORS #10 AND SMALLER SHALL BE SOLID.

TYPE AND INSULATION (SERVICE): COPPER, TYPE THWN  
TYPE AND INSULATION (FEEDER): COPPER, TYPE THHN/THWN  
TYPE AND INSULATION (BRANCH): COPPER, TYPE THHN/THWN  
COPPER, TYPE MC

COLOR CODING (120/240 V, 1Ø): A-BLACK, B-RED, N-WHITE, G-GREEN

RACEWAYS

CONDUIT BODIES AND FITTINGS FOR RIGID METAL CONDUIT SHALL BE CAST THREADED TYPE. CONDUIT FITTINGS FOR ELECTRICAL METALLIC TUBING SHALL BE COMPRESSION TYPE. INSTALL 200 lb NYLON PULL CORD IN ALL EMPTY RACEWAYS FOR FUTURE USE. APPLY FIRESTOPPING TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATINGS OF ASSEMBLY.

OUTDOORS EXPOSED: RIGID GALVANIZED STEEL CONFORMING TO ANSI C80.5  
OUTDOORS UNDERGROUND: RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC) CONFORMING TO NEMA 12

OUTDOORS CONNECTED TO VIBRATING OR MOTORIZED EQUIPMENT: LIQUDTIGHT FLEXIBLE METAL CONDUIT CONFORMING TO UL 360  
INDOORS CONCEALED: ELECTRICAL METALLIC TUBING CONFORMING TO ANSI C80.3  
INDOORS EXPOSED: ELECTRICAL METALLIC TUBING CONFORMING TO ANSI C80.3  
INDOORS CONNECTED TO VIBRATING OR MOTORIZED EQUIPMENT: FLEXIBLE METALLIC CONDUIT CONFORMING TO UL 1

OUTLET BOXES

BOXES SHALL COMPLY WITH NEMA OS 1 AND SHALL BE SHEET METAL TYPE WITH PLASTER RING IN DRY LOCATIONS. BOXES SHALL COMPLY WITH NEMA FB 1 AND SHALL BE CAST METAL TYPE FD WITH GASKETED COVER IN DAMP OR WET LOCATIONS.

PULL AND JUNCTION BOXES

BOXES SHALL BE HOT-DIPPED GALVANIZED STEEL. BOX COVERS SHALL BE GASKETED TYPE WITH SCREWED OR BOLTED FASTENERS.

WIRING DEVICES

DEVICES SHALL COMPLY WITH NEMA WD 1 AND WD 6. DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE OR BETTER. ALL DEVICES SHALL BE OF THE GROUNDING TYPE. DEVICES SHALL BE MOUNTED FLUSH WITH THE LONG DIMENSION VERTICAL AND GROUNDING TERMINAL OF RECEPTACLES ON TOP. SWITCHES SHALL BE QUIET TYPE, RATED 20 AMPERES AT 120/277 VOLTS. GROUND FAULT CIRCUIT INTERRUPTERS SHALL BE FEED-THROUGH TYPE. WEATHERPROOF COVERS SHALL BE PROVIDED IN DAMP OR WET LOCATIONS. PROGRAM OCCUPANCY SENSORS FOR FIFTEEN MINUTES WITH MEDIUM SENSITIVITY. TRAIN OWNER TO ADJUST TIME AND SENSITIVITY.

DEVICE COLOR: SELECTED BY ARCHITECT.

DEVICE COVER: SMOOTH PLASTIC WITH COLOR TO MATCH DEVICE COLOR

ELECTRICAL IDENTIFICATION

IN ADDITION TO CODE-REQUIRED LABELING, ALL PANELBOARDS, ELECTRICAL ENCLOSURES, TRANSFORMERS, AND DISCONNECT SWITCHES SHALL BE IDENTIFIED WITH AN ENGRAVED PLASTIC LAMINATED NAMEPLATE. LETTERING SHALL BE 1/2" INCHES HIGH AND SHALL BE WHITE ON A BLACK BACKGROUND. NAMEPLATES SHALL BE ATTACHED TO EQUIPMENT WITH STAINLESS STEEL SELF-TAPPING SCREWS. CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANY TO DETERMINE THE AVAILABLE FAULT CURRENT AT THE PANEL LOCATION SHOWN ON THE DRAWINGS. CONTRACTOR TO PROVIDE ELECTRICAL EQUIPMENT WITH AIC RATING OVER THE CALCULATED FAULT CURRENT. CALCULATED FAULT CURRENT SHALL BE LISTED ON EACH PIECE OF ELECTRICAL EQUIPMENT. CONTRACTOR TO PROVIDE AND AFFIX ARC FLASH WARNING LABELS ON ALL ELECTRICAL SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, LOAD CENTERS, DISCONNECTS AND ENCLOSED CIRCUIT BREAKERS PER 2014 NEC ARTICLE 110.16.

GROUNDING

GROUNDING AND BONDING COMPONENTS SHALL COMPLY WITH UL 467. AN INSULATED EQUIPMENT-GROUNDING CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS FOR ALL FEEDER AND BRANCH CIRCUITS. EXOTHERMIC-WELDED CONNECTIONS SHALL BE USED FOR ATTACHMENT TO STRUCTURAL STEEL AND UNDERGROUND CONNECTIONS. GROUNDING ELECTRODES SHALL BE 3/4" x 10' COPPERWELD TYPE.

PANELBOARDS

PANELBOARDS SHALL COMPLY WITH NEMA PB 1. SHOP DRAWINGS FOR EACH PANELBOARD SHALL BE SUBMITTED AND SHALL INCLUDE BUS CONFIGURATION AND CURRENT RATINGS, OVERCURRENT DEVICE ARRANGEMENT AND SETTINGS, AND PANELBOARD SHORT CIRCUIT RATING. PHASE AND NEUTRAL BUSES SHALL BE COPPER. AN EQUIPMENT GROUND BUS SHALL BE PROVIDED AND SHALL BE BONDED TO THE PANEL BOX. PANELBOARDS WITH A MAIN SERVICE DISCONNECT SHALL BE LISTED FOR USE AS SERVICE EQUIPMENT. PANELBOARD TRIM SHALL BE BOLT-ON TYPE. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. CIRCUIT BREAKERS SHALL BE LISTED FOR SWD, HID OR HACR USE AS APPROPRIATE. MULTI-POLE CIRCUIT BREAKERS SHALL HAVE A COMMON TRIP. TAND-EM CIRCUIT BREAKERS SHALL NOT BE USED. FILLER PLATES SHALL BE INSTALLED IN UNUSED SPACES. A TYPED CIRCUIT DIRECTORY SHALL BE INSTALLED ON THE INSIDE OF THE PANELBOARD DOOR.

FUSES

FUSES SHALL BE NEMA FU 1 CARTRIDGE TYPE. VOLTAGE RATINGS SHALL BE CONSISTENT WITH CIRCUIT VOLTAGE. ARRANGE FUSES IN FUSIBLE DEVICES SO FUSE RATINGS ARE READABLE WITHOUT REMOVING FUSE. INSTALL TYPEWRITTEN LABELS ON INSIDE DOOR OF EACH FUSIBLE DEVICE TO INDICATE FUSE REPLACEMENT INFORMATION.

MOTOR FEEDER AND BRANCH CIRCUITS: UL CLASS RK5, TIME DELAY  
FEEDER AND BRANCH CIRCUITS: UL CLASS RK1, NON-TIME DELAY

DISCONNECT SWITCHES

SWITCHES SHALL BE FUSED OR NONFUSED NEMA KS 1 TYPE HD. SWITCHES SHALL BE HANDLE LOCKABLE AND INTERLOCKED WITH COVER IN CLOSED POSITION. ENCLOSURES SHALL BE NEMA TYPE 1 IN INDOOR LOCATIONS AND NEMA TYPE 3R IN OUTDOOR LOCATIONS. HVAC EQUIPMENT DISCONNECTS ARE TO BE CONSIDERED ELECTRICAL EQUIPMENT AND SHALL BE INSTALLED TO MAINTAIN WORKING SPACE PER 2014 NEC ARTICLE 110.26.

INTERIOR LIGHTING

FIXTURE MOUNTING HARDWARE AND TRIM SHALL BE COORDINATED WITH THE CEILING SYSTEM. RECESSED FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL SYSTEM. FLUORESCENT FIXTURE BALLASTS SHALL BE CDM LABELED, CLASS P, SOUND RATING "A", ELECTRONIC, HIGH POWER FACTOR TYPE.

VOICE AND DATA SYSTEMS

PROVIDE EMPTY INFRASTRUCTURE ONLY. INSTALL BLANK FACEPLATES FOR OUTLETS. USE A CONDUIT BUSHING OR INSULATED FITTING TO TERMINATE STUB-UPS. PROVIDE PULL STRING IN EACH CONDUIT.

TRANSFER SWITCH

SWITCH SHALL COMPLY WITH U.L. 1008-89. SWITCH SHALL BE SIZED TO MATCH THE GENERATOR. SWITCH SHALL HAVE A SOLID NEUTRAL, EXERCISER TIME CLOCK AND BATTERY CHARGER.

ENGINE GENERATOR

THE EMERGENCY POWER SUPPLY SYSTEM SHALL BE LEVEL 2 IN ACCORDANCE WITH NFPA 110. ENGINE GENERATOR SHALL BE COMPLETE WITH WEATHERPROOF HOUSING, FUEL TANK, STARTING BATTERIES AND OUTPUT CIRCUIT BREAKER.

ELECTRICAL SYMBOLS

	WALL-MOUNTED EXIT LIGHT FIXTURE SHADING INDICATES FACE(S); ARROW(S) INDICATE PATH OF EGRESS
	DOWNLIGHT
	DOWNLIGHT W/ EMERGENCY BATTERY PACK
	2X4' FIXTURE
	2X4' FIXTURE W/ EMERGENCY BATTERY PACK
	4' STRIP FIXTURE
	4' STRIP FIXTURE WITH EMERGENCY BATTERY BACK UP
	WALL-MOUNTED LIGHT FIXTURE
	VANITY LIGHT
	SPST TOGGLE SWITCH 48" AFF TOP OF BOX
	THREE WAY TOGGLE SWITCH 48" AFF TOP OF BOX
	DUPLEX CONVENIENCE OUTLET 18" AFF
	DUPLEX CONVENIENCE OUTLET 8" ABOVE COUNTER/BACKSPASH, 48" AFF MAX TO TOP OF BOX COORDINATE MOUNTING HEIGHTS WITH MILLWORK
	DUPLEX CONVENIENCE OUTLET 18" AFF GROUND FAULT INTERRUPTER TYPE
	DUPLEX CONVENIENCE OUTLET 8" ABOVE COUNTER/BACKSPASH, 48" AFF MAX TO TOP OF BOX, COORDINATE MOUNTING HEIGHTS WITH MILLWORK, GROUND FAULT INTERRUPTER TYPE
	DUPLEX CONVENIENCE OUTLET 18" AFF WEATHERPROOF GROUND FAULT INTERRUPTER TYPE
	QUADRUPLIX CONVENIENCE OUTLET 18" AFF
	TELEPHONE BOARD 48" x 96" x 3/4" PLYWOOD
	COMBINATION DATA/VOICE OUTLET 18" AFF
	ELECTRICAL PANEL
	MOTOR - SEE SCHEDULE
	SPECIAL OUTLET - SEE SCHEDULE
	CEILING-MOUNTED OCCUPANCY SENSOR - WATTSTOPPER DT-300 OR APPROVED EQUAL
	WALL-SWITCH OCCUPANCY SENSOR 48" AFF WATTSTOPPER DW-100 OR APPROVED EQUAL

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CLIENT: NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA  
PROJECT NAME: TOWN HALL POLICE - CITY OF WHITMIRE  
PROJECT LOCATION: 270 MAIN STREET, WHITMIRE, SC 29178

SOUTH CAROLINA  
JOHNSON, LASCHNER & ASSOCIATES, P.C.  
STATE OF AUTHORITY  
No. 25571  
LOW & KEEL  
9/14/18

REV	DATE	BY	DESCRIPTION
0	09/14/18	FAK	ISSUED FOR CONSTRUCTION

PROJECT NO. 3606.1704  
DRAWN BY: JAP/JFP  
CHECKED BY: FAK  
DATE: 12/11/17  
SHEET TITLE:  
**ELECTRICAL  
GENERAL NOTES  
AND LEGEND**

SCALE: AS NOTED  
DRAWING NO. **E-001**  
REV. 0

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LIGHTING FIXTURE SCHEDULE							
ID	MANUF.	BASIS OF DESIGN MODEL NUMBER	VOLT.	WATTS	LAMP TYPE	MOUNTING	REMARKS
A	COLUMBIA	LCAT24-40MWG-EDU	120	33	4000K LED	RECESSED	ARCHITECTURAL RECESSED LED 2'x4'
AE	COLUMBIA	LCAT24-40MWG-EDU-ELL14	120	33	4000K LED	RECESSED	ARCHITECTURAL RECESSED LED 2'x4' WITH EMERGENCY BATTERY PACK
B	COLUMBIA	LCAT24-40LWG-EDU	120	40	4000K LED	RECESSED	ARCHITECTURAL RECESSED LED 2'x4'
BE	COLUMBIA	LCAT24-40LWG-EDU-ELL14	120	40	4000K LED	RECESSED	ARCHITECTURAL RECESSED LED 2'x4' WITH EMERGENCY BATTERY PACK
C	COLUMBIA	LCAT24-40HVG-EDU	120	44	4000K LED	RECESSED	ARCHITECTURAL RECESSED LED 2'x4'
D	ELITE	HH6-LED-1200L-MD-40K-SH2-WT	120	17	4000K LED	RECESSED	LED DOWNLIGHT
DE	ELITE	HH6-LED-1200L-MD-40K-ENG-LED-SH2-WT	120	17	4000K LED	RECESSED	LED DOWNLIGHT WITH EMERGENCY BATTERY PACK
E	COLUMBIA	LCL4 40 ML EDU ELL14	120	42	4000K LED	WALL/SURFACE	GENERAL PURPOSE 4' STRIP FIXTURE WITH EMERGENCY BATTERY
F	DAYOLITE	MEDL-PL-DISI-40LO-4-W-U-EPC	120	45	4000K LED	WALL	4 FT UNIT- INTEGRAL SENSOR FOR H-L-O OPERATION
G	OXYGEN	3-547-20	120	26	4000K LED	WALL	VANITY LIGHT
H	LIGHTALARM	CAM ACCO P	120	20	LED	WALL	WALL SCONCE WITH INTEGRAL BATTERY PACK.
J	COLUMBIA	LCL4 40 ML EDU	120	42	4000K LED	SUSPENDED	GENERAL PURPOSE 4' STRIP FIXTURE
X	COMPASS	CER	120	5	LED	WALL / CEILING	EXIT SIGN

LIGHTING FIXTURE SCHEDULE NOTES:  
1. COORDINATE ALL FINISH OPTIONS WITH ARCHITECT.

MOTOR SCHEDULE				
ID	VOLTAGE	PHASE	WIRE / COND.	DESCRIPTION
1	240	1	2#4, #8G, 1" C.	RTU-1
2	240	1	2#4, #8G, 1" C.	RTU-2
3	120	1	2#12, #12G, 3/4" C.	EF-1
4	120	1	2#12, #12G, 3/4" C.	EF-2
5	120	1	2#12, #12G, 3/4" C.	EF-3
6	120	1	2#12, #12G, 3/4" C.	UH-1
7	240	1	2#10, #10G, 1" C.	AHU-1
8	240	1	2#12, #12G, 3/4" C.	OHP-1
9	120	1	2#12, #12G, 3/4" C.	WH-1
10	120	1	2#12, #12G, 3/4" C.	EF-4

MOTOR SCHEDULE NOTES:  
1. PROVIDE LOCAL DISCONNECTING MEANS FOR EACH MOTOR. COORDINATE WITH MOTOR MOC.

SPECIAL OUTLET SCHEDULE				
ID	VOLTAGE	PHASE	WIRE / COND.	DESCRIPTION
1	240	1	2#10, #10G, 3/4" C.	EVH-1
2	240	1	2#10, #10G, 3/4" C.	EVH-2

SPECIAL OUTLET SCHEDULE NOTES:  
1. PROVIDE LOCAL DISCONNECTING MEANS. COORDINATE WITH MOTOR MOC.

VOLTAGE 120 / 240V  
 PHASE 1 WIRE 3  
 S.C.C. TBD MIN.

# PANEL LP1

MAIN AMPS 400

LOCATION ELEC 113  
 MOUNTING SURFACE  
 MAIN BREAKER

CKT	BREAKER AMPS	P	VA	SERVING	PHASE	SERVING	VA	BREAKER AMPS	P	CKT
1	20	1	1,644	LIGHTS	A	GENERAL RECEPTACLES	1,620	20	1	2
2	20	1	1,351	LIGHTS	B	GENERAL RECEPTACLES	1,620	20	1	4
3	20	1	1,440	MEETING 208, CORR. 205	A	CPW CLERK 110	900	20	1	6
5	20	1	900	MEETING 208	B	TOWN HALL CLERK 111	900	20	1	8
9	20	1	720	OFFICE 201	A	TOWN HALL CLERK COUNTER	360	20	1	10
11	20	1	720	OFFICE 202	B	TOWN HALL COPIER	1,500	20	1	12
13	20	1	720	OFFICE 203	A	POLICE 101	900	20	1	14
15	20	1	720	OFFICE 204	B	POLICE 101	900	20	1	16
17	20	1	720	OFFICE 206	A	GENERATOR BATT. CHARGER*	500	20	1	18
19	20	1	720	OFFICE 207	B	GENERATOR CASE HEATER*	500	20	1	20
21	30	2	2,250	EVH-1	A	INTERVIEW 116	720	20	1	22
23			2,250		B	SPARE		20	1	24
25	20	1		SPARE	A	SPARE		20	1	26
27	20	1		SPARE	B	SPARE		20	1	28
29		1		SPARE	A	SPARE				30
31		1		SPARE	B	SPARE				32
33		1		SPARE	A	SPARE				34
35		1		SPARE	B	PANEL GP1 (ALT #2)	13,020	200	2	36
37		1		SPARE	A		11,858			38
39	60	2	4,692	RTU-1	B	RTU-2	4,692	60	2	40
41			4,692		A		4,692			42
				VA PER PHASE	33,735	34,485	TOTAL VA	68,221		
				AMPS PER PHASE	281	287	DIVERSIFIED VA	68,221		

## REMARKS:

1. \*PROVIDE 3#12 FOR EACH GENERATOR CIRCUIT.

VOLTAGE 120 /240V

PHASE 1 WIRE 3

S.C.C. TBD MIN.

PANEL GP1\*\*

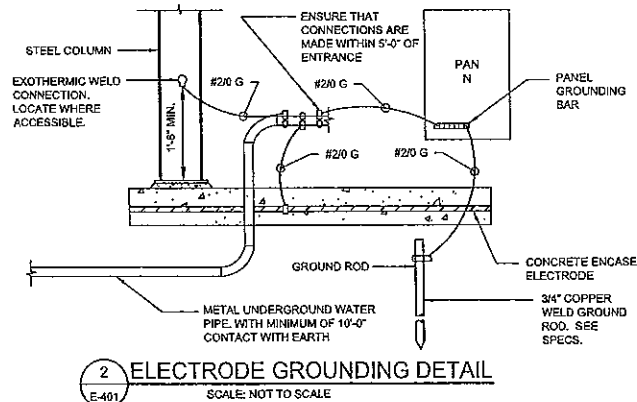
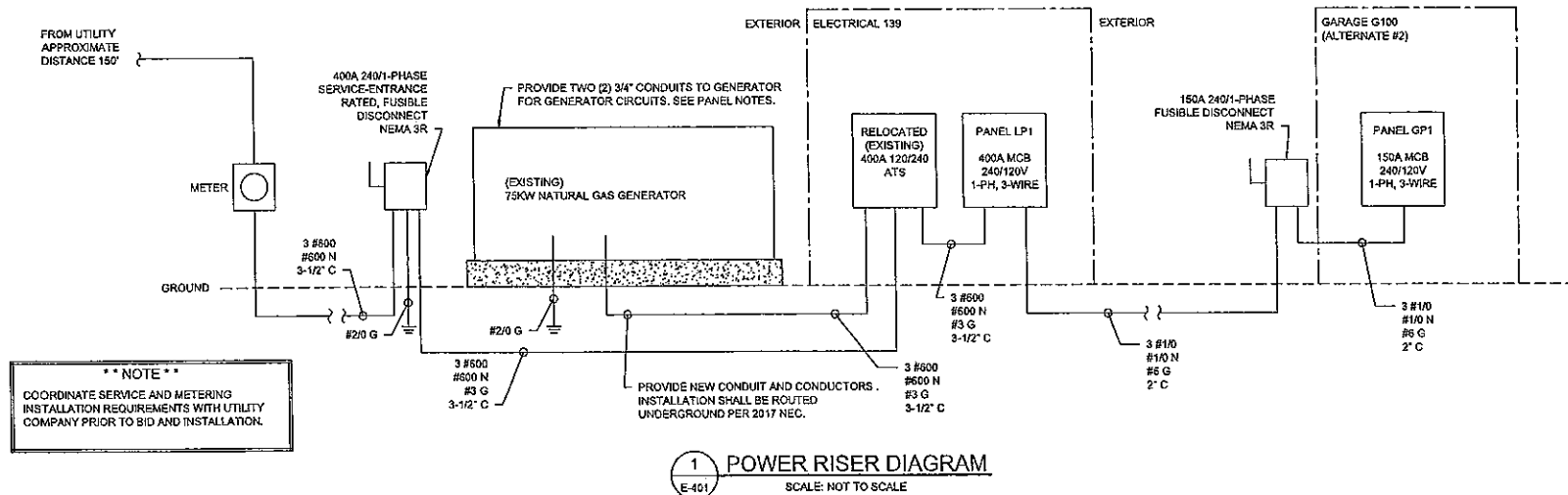
MAIN AMPS 150

LOCATION GARAGE G100

MOUNTING SURFACE

MAIN M.L.O.

CKT	BREAKER		VA	SERVING	PHASE	SERVING	VA	BREAKER		CKT
	AMPS	P						AMPS	P	
1	20	1	1,162	LIGHTING	A	GARAGE RECEPTACLES	540	20	1	2
2	20	1	500	EXTERIOR LIGHTING	B	GARAGE RECEPTACLES	540	20	1	4
3	20	1		SPARE	A	GARAGE RECEPTACLES	350	20	1	6
4	20	1		SPARE	B	GARAGE RECEPTACLES	540	20	1	8
5	20	1		SPARE	A	REFRIGERATOR	800	20	1	10
6	20	1		SPARE	B	APPLIANCE RECEPTACLE	1,500	20	1	12
7	25	2	2,880	AHU-1	A	APPLIANCE RECEPTACLE	1,500	20	1	14
8	25	2	2,880		B	OFFICE RECEPTACLES	720	20	1	16
9	20	2	1,440	OHP-1	A	GENERAL RECEPTACLES	1,080	20	1	18
10	20	2	1,440		B	UH-1	288	20	1	20
11	30	2	2,250	EVH-2	A	WH-1	1,008	20	1	22
12	20	2	2,250		B	EXISTING EXHAUST FAN*	1,200	20	1	24
				VA PER PHASE 13,020		TOTAL VA 24,878				
				AMPS PER PHASE 109		DIVERSIFIED VA 24,878				
REMARKS:										
1. *VERIFY BREAKER AND WIRING WITH EXISTING EQUIPMENT TO REMAIN.										
2. **ALTERNATE #2										



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CLIENT: NEWBERRY COUNTY  
NEWBERRY, SOUTH CAROLINA  
PROJECT NAME: TOWN HALL POLICE - CITY OF WHITMIRE  
PROJECT LOCATION: 210 MAIN STREET, WHITMIRE, SC 29178

JOHNSON, LASCHOB & ASSOCIATES, P.C.  
REGISTERED PROFESSIONAL ENGINEER  
SOUTH CAROLINA  
No. 28571  
9/14/18

PROJECT NO. 3608.1704  
DRAWN BY: JAP/JFP  
CHECKED BY: FAK  
DATE: 12/11/17  
SHEET TITLE: ELECTRICAL SCHEDULES AND DETAILS  
SCALE: AS NOTED  
DRAWING NO. E-401  
REV. 0



1. REMOVE ALL EXISTING ELECTRICAL ITEMS IN THEIR ENTIRETY IN THIS AREA.

1 INTERLOCK FAN WITH LIGHTS.  
2 APPROXIMATE LOCATION OF EXISTING EXHAUST FAN TO REMAIN



CLIENT:	NEWBERRY COUNTY NEWBERRY, SOUTH CAROLINA
PROJECT NAME:	TOWN HALL POLICE - CITY OF WHITMIRE
PROJECT LOCATION:	210 MAIN STREET, WHITMIRE, SC 29378

[illegible]

PROJECT NO.	3606.1704
DRAWN BY:	JFP
CHECKED BY:	FAK
DATE:	12/11/17
SHEET TITLE:	
<p><b>ALTERNATE #2</b>  <b>REAR BUILDING</b>  <b>ELECTRICAL PLAN</b></p>	

SCALE:	1/4" = 1'-0"
DRAWING NO.	RE
<b>EALT02</b>	0