NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY

NEWBERRY COUNTY, SC

OWNER

NEWBERRY COUNTY
1309 COLLEGE STREET
NEWBERRY, SC 29108
TEL: 803.321.2100
CONTACT: ERVIN WEST
E-MAIL: ewest@newberrycounty.net

ARCHITECT

POND
1301 GERVAIS STREE, SUITE 1300
COLUMBIA, SC 29201
TEL: 803.799.6502
CONTACT: LORRAINE WHITE
E-MAIL: whitel@pondco.com

STRUCTURAL

MABRY ENGINEERING ASSOCIATES, Inc.
840 SHULL STREET, SUITE 100
WEST COLUMBIA, SC 29169
TEL: 803.926.0000
CONTACT: ALBERT STEVENS
E-MAIL: astevens@mabryeng.com

MECHANICAL

FELKEL & HASTINGS
2725 CYPRESS STREET
COLUMBIA, SC 29205
TEL: 803.771.0185
CONTACT: CLAY BUSTO
E-MAIL: clayfhme@bellsouth.net

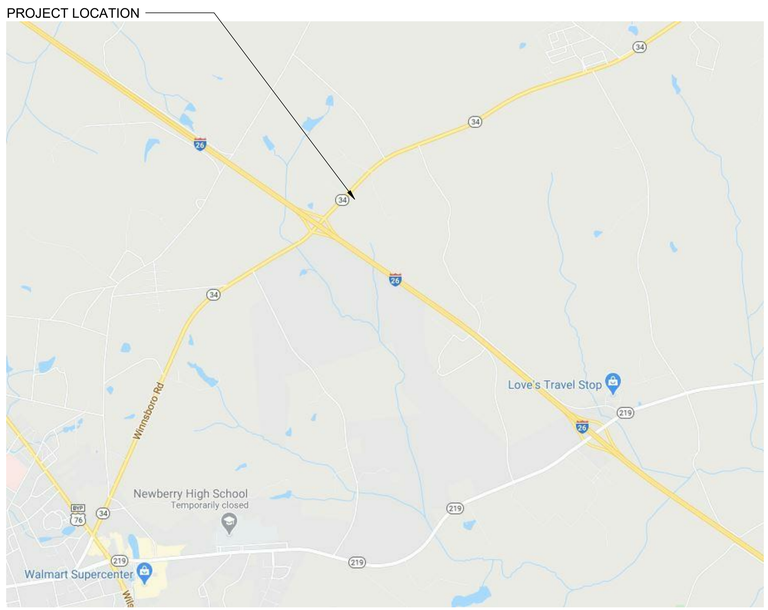
PLUMBING

FELKEL & HASTINGS
2725 CYPRESS STREET
COLUMBIA, SC 29205
TEL: 803.771.0185
CONTACT: PAUL FREDERICK
E-MAIL: paulfhme@bellsouth.net

ELECTRICAL

ETi ENGINEERING, LLC
5725 BUSH RIVER ROAD
COLUMBIA, SC 29212
TEL: 803.233.9396 ext.101
CONTACT: BRYSON TUCKER
E-MAIL: ewest@newberrycounty.net

PROJECT LOCATION



LOCATION MAP
SCALE: N.T.S.

TRUE NORTH

SHEET INDEX

PO# 2069221
ISSUED FOR BID

NOVEMBER 06, 2020

POND
1301 Gervais Stree, Suite 1300
Columbia, SC 29201
Phone (803) 799-6502

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9392
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.: PO# 2069221
FILE NUMBER:
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone (803) 799-6502
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

COVER SHEET

SHEET ID
G-001
SHEET OF

11/6/2020 10:13:51 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

CODE REVIEW SUMMARY

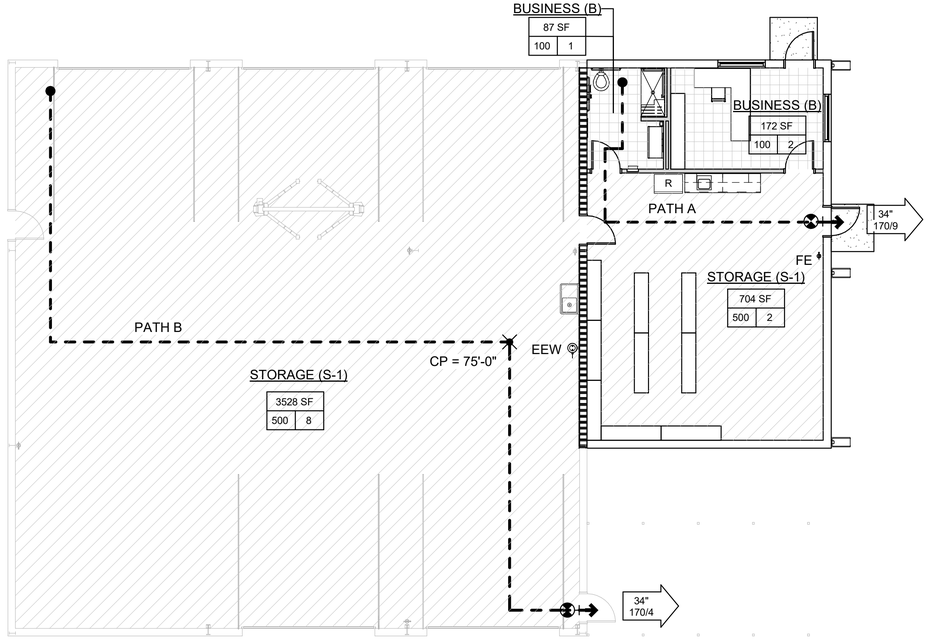
PER IBC 2015, THE FOLLOWING ASSUMPTIONS WERE MADE OF THE EXISTING BUILDING:
- BUILDING IS APPROXIMATELY 3,721SF, TYPE IIB CONSTRUCTION, UNPROTECTED, 1-STORY, NON-SPRINKLERED.
- BUILDING IS CLASSIFIED AS NON-SEPARATED MIXED OCCUPANY: S-1 (MODERATE HAZARD STORAGE) AND B (BUSINESS)
-FIRE RESISTIVE RATINGS: IBC, TABLE 601; SECTION 602.2

STRUCTURAL FRAME	0 HR.
EXT. BEARING WALLS	0 HR.
INT. BEARING WALLS	0 HR.
INT. NON-BEARING WALLS AND PARTITIONS	0 HR.
FLOOR CONSTRUCTION	0 HR.
ROOF CONSTRUCTION	0 HR.
CORRIDORS	0 HR.

-OCCUPANCIES ARE NOT REQUIRED TO BE SEPERATED BY CODE. IT IS THE ARCHITECT'S INTENT TO PROVIDE A SMOKE WALL SPERATION BETWEEN THE EXISTING FACILITY AND THE NEW ADDITION TO IMPROVE ACOUSTICS AND PREVENT TRANSMISSION OF FUMES.

-ALLOWABLE HEIGHT:
MODERATE HAZARD STORAGE (S-1) (MOST RESTRICTIVE), 55 FT/ 2 STORIES (AS PER IBC 504.3 & 504.4)
-ALLOWABLE AREA:
MODERATE HAZARD STORAGE (S-1) (MOST RESTRICTIVE), BASED ON IBC TABLE 506.2 - 17,500 SQUARE FEET
-OCCUPANT LOAD: 11 OCCUPANTS

EXIT REQUIRMENTS:
-1 MEANS OF EGRESS REQUIRED (T1006.2.1)
-MINIMUM EGRESS WIDTH IS 2.6" (1005.3.2)
-MINIMUM CORRIDOR WIDTH IS 36" (T1020.2)
-DEAD END CORRIDOR MAX DISTANCE IS 20' (1020.4)
-COMMON PATH OF TRAVEL MAX DISTANCE IS 75' (1029.8, EXCEPTION 1)
-MAXIMUM TRAVEL DISTANCE TO EXIT IS 200' (1029.7)



A1 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

GENERAL LIFE SAFETY SHEET NOTES:

1. DEVICES HAVE BEEN SHOWN; BUT THE CONTRACTOR SHALL ENSURE THE INSTALLATION OF ALL LIFE SAFETY DEVICES INDICATED ON THE ENGINEERING DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ANY EXISTING FIRE RATED WALLS. ANY WORK DONE AROUND EXISTING FIRE RATED WALLS SHALL BE DONE WITH CARE SO AS NOT TO COMPROMISE THE RATING'S INTEGRITY. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
3. THESE DRAWINGS SHALL BE INDICATED AS "FOR REFERENCE ONLY."
4. CONTRACTORS SHALL FOLLOW EM-385-1-1 AND NFPA 241, ALONG WITH THE INSTALLATION'S FIRE REGULATIONS.
5. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
   a. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG WITH WALL OR PARTITION.
   b. INCLUDE LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8-INCH STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS," OR OTHER WORDING

LIFE SAFETY PLAN LEGEND

- SMOKE WALLS
- FULL HEIGHT WALLS (NO RATING)
- 45'-0" — TRAVEL DISTANCE
- CP — COMMON PATH END
- CP___ — COMMON PATH OF EGRESS TRAVEL IDENTIFIER
- EXIT SIGN WITH DIRECTION ARROWS- SEE ELECT. DWGS.
- COMBINATION EXIT LIGHT/EMERGENCY LIGHT
- STARTING POINT FOR TRAVEL DISTANCE
- FE — BRACKET - MOUNTED FIRE EXTINGUISHER: 10LB. A:BC DRY - CHEMICAL TYPE
- # — EMERGENCY LIGHT (WITH NUMERICAL IDENTIFICATION - WHERE PROVIDED)
- FE — FIRE EXTINGUISHER 10LB. A: BS DRY-CHEMICAL FIRE EXTINGUISHER

NOTE: FIRE EXTINGUISHERS SHALL BE INSTALLED W/ TOP AT 4'-0" ABOVE FINISHED FLOOR. PROVIDE STICK - ON LETTERING AND DIRECTIONAL ARROWS TO IDENTIFY THE EXTINGUISHERS LOCATION.

- 36" 100/100 — EGRESS CLEAR WIDTH CAPACITY/NO. OF OCCUPANTS
- FIRE ALARM VISUAL / AUDIO STROBE; SEE ELECTRICAL
- EEW — EMERGENCY EYEWASH
- 150 SF / 100 100 — ROOM AREA / OCCUPANT LOAD / AREA PER OCCUPANT

OCCUPANCY				
OCCUPANCY TYPE	AREA	AREA UNIT TYPE	AREA PER OCCUPANT	OCCUPANT LOAD
BUSINESS AREAS (B)	259 SF	GROSS	100 SF	3
	259 SF			3
STORAGE (S-1)	4232 SF	GROSS	500 SF	8
	4232 SF			8
Grand total: 4	4492 SF			11

EGRESS PATH	
EGRESS PATH	TRAVEL DISTANCE
PATH A	40' - 5"
PATH B	111' - 4"

BUILDING AREA LEGEND

- BUSINESS (B)
- STORAGE (S-1)

8 0 8 16
SCALE: 1/8" = 1'-0"

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECTS — POND & COMPANY COLUMBIA, S.C. B-98107

STATE OF SOUTH CAROLINA — LORRAINE SANTANA WHITE COLUMBIA, SC 9382 — REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

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SIZE: ANSI D
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SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: 803.779.4002
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

LIFE SAFETY PLAN

SHEET ID
G-101
SHEET OF

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ARCHITECTURAL ABBREVIATIONS:

A.F.	ACCESS FLOORING
A.F.F.	ABOVE FINISHED FLOOR
ACC. DR.	ACCESS DOOR / PANEL
ADAAG	AMERICAN WITH DISABILITIES ACCESSIBILITY GUIDELINES
ADJ.	ADJUST/ ADJUSTABLE
ACOUST.	ACOUSTICAL
A.B.	ANCHOR BOLT
ACT	ACOUSTICAL CEILING TILE
ANOD.	ANODIZED
A.C.	AIR CONDITIONING
AL / ALUM.	ALUMINUM
APP.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
AT / FP	ANTI TERRORISM / FORCE PROTECTION
AVG.	AVERAGE
A.W.I.	ARCHITECTURAL WOODWORK INSTITUTE
B.H.M.I.	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION, INC.
BM.	BEAM
BLKG.	BLOCKING
BD.	BOARD
BTM.	BOTTOM
BLDG.	BUILDING
B.U.R.	BUILT-UP ROOFING
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFMF	COLD FORMED METAL FRAMING
CH.	CHANNEL
CPT	CARPET
CLG.	CEILING
CLG. HT.	CEILING HEIGHT
CTR.	CENTER
C	CENTER LINE
C. TO C.	CENTER TO CENTER
CT	CERAMIC TILE
CLR	CLEAR
CO	CLEANOUT
CLOS.	CLOSET
COL.	COLUMN
CONC.	CONCRETE
CORR.	CORRIDOR
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
CMU	CONCRETE MASONRY UNIT
CONF.	CONFERENCE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CJ	CONTROL JOINT
CY	CUBIC YARD
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DR	DOOR
DN	DOWN
DS	DOWNSPOUT
DESC.	DESCRIPTION
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL OR ELECTRIC
EL.	ELEVATION
EWC	ELECTRIC WATER COOLER
ERD	EMERGENCY ROOF DRAIN
EP	EPOXY PAINT
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQUIP	EQUIPMENT
EQ	EQUAL
EXIST	EXISTING
EXP	EXPANSION / EXPOSED
EJ (EXP. JT.)	EXPANSION JOINT
EXP ST	EXPOSED TO STRUCTURE
EXT	EXTERIOR
ETD	ESTIMATED TRAVEL DISTANCE

FAC	FACTORY
FDC	FIRE DEPARTMENT CONNECTION
FT	FEET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN.	FINISH
F.P.	FLAT PAINT
FF	FINISHED FLOOR
FLR	FLOOR
FD	FLOOR DRAIN
FLUOR	FLUORESCENT
F/O	FACE OF
F.O.G.	FACE OF GIRT
FTG.	FOOTING
FDN.	FOUNDATION
FV	FIELD VERIFY
GA.	GAGE OR GAUGE
GALV.	GALVANIZED
G.B.F.	GYPSUM BOARD FURRING
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
G.L.	GIRT LINE
G.P.	GLOSSY PAINT
GL.	GLASS
GOVT.	GOVERNMENT
GYP.	GYPSUM
GYP. (GWB)	GYPSUM BOARD
HKS	HOOKS
HR.	HANDRAIL
HDW.	HARDWARE
HGT.	HEIGHT
H.	HIGH
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HB	HOSE BIBB
H.V.A.C.	HEATING VENTILATION & AIR CONDITIONING
IN.	INCH
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
J.C.	JANITOR'S CLOSET
JT.	JOINT
JST.	JOIST
K.P.	KICK PLATE
LAM.	LAMINATE
LDG.	LANDING
LAV.	LAVATORY
L.H.	LEFT HAND
LHR	LEFT HAND REVERSE
LT.	LIGHT
LTG.	LIGHTING
LONG.	LONGITUDINAL
LVR.	LOUVER
L.P.	LOW POINT
MAS.	MASONRY
M.O.	MASONRY OPENING
MGR.	MANAGER
MANUF.	MANUFACTURER
MATL	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
M.W.P.	METAL WALL PANEL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
NO. (#)	NUMBER
NTS	NOT TO SCALE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
O.C.	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFGI	OWNER FURNISHED GOVERNMENT INSTALLED
O.H.	OPPOSITE HAND
OPNG.	OPENING
O.W.	OPEN WEB
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
OVHD	OVERHEAD

PDU	POWER DISTRIBUTION UNIT
PT	PAINT
PR.	PAIR
PNL.	PANEL
PART.	PARTITION
PLAS.	PLASTER OR PLASTIC
PL	PLATE
PLYWD.	PLYWOOD
LBS. OR #	POUNDS
PSF	POUNDS / SQUARE FOOT
PSI	POUNDS / SQUARE INCH
P.M.J.F.	PRE-MOLDED JOINT FILLER
PRE-FAB.	PREFABRICATED
Q.T.	QUARRY TILE
RAF	RAISED ACCESS FLOOR
RECEP.	RECEPTIONIST
REF.	REFERENCE
REINF.	REINFORCEMENT
REQ'D.	REQUIRED
REV.	REVISIONS / REVISED
R.D.	ROOF DRAIN
R.D.	RIGHT HAND
RH	RIGHT HAND REVERSE
RM.	ROOM
R.O.	ROUGH OPENING
RB	RUBBER BASE
SC	SEALED CONCRETE
SCW	SOLID CORE WOOD
SCHED.	SCHEDULE
SECT .	SECTION
S.G.P.	SEMI-GLOSS PAINT
SSK	SERVICE SINK
SHT. MET.	SHEET METAL
SIM.	SIMILAR
STC	SOUND TRANSMISSION CLASS
SPEC(S)	SPECIFICATION
SFRM	SPRAYED FIRE RESISTIVE MATERIAL
SQ.	SQUARE
ST.	STAIN
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
TOIL. / TLT	TOILET
TEL.	TELEPHONE
THK.	THICK
T'HOLD	THRESHOLD
TG	TEMPERED GLASS
T/	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
T/C	TOP OF CURB
TOS	TOP OF STEEL
T/W	TOP OF WALL
TU	TOUCH-UP
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
UNFIN	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VEST.	VESTIBULE
VCT	VINYL COMPOSITION TILE
VCB	VINYL COVE BASE
V.T.R.	VENT THRU ROOF
W.	WIDTH
W/	WITH
W.C.	WATER CLOSET
WCO	WALL CLEAN OUT
WD.	WOOD
WDW.	WINDOW
W.M.P.	WIRE MESH PARTITION
W/O	WITHOUT
W.R.G.B.	WATER RESISTANT GYPSUM BOARD
W.S.	WEATHERSTRIPPING
W.R.O.	WINDOW ROUGH OPENING
YD.	YARD

GENERAL NOTES:

1. THE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE DRAWINGS ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. THE ENUMERATION OF PARTICULAR ITEMS OF WORK IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO EXCLUDE OTHER ITEMS NECESSARY OR IMPLIED THEREFROM.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
4. ALL WORK SHALL CONFORM TO APPLICABLE INDUSTRY AND MANUFACTURER'S PUBLISHED STANDARDS FOR QUALITY OF MATERIALS AND WORKMANSHIP, AS WELL AS, ALL REQUIREMENTS IN THESE DRAWINGS AND SPECIFICATIONS. ANY CONFLICTING REQUIREMENTS OF THE SOURCES LISTED ABOVE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PROCEEDING WITH THE WORK.
5. THE CONTRACTOR SHALL PROTECT ANY EXISTING, IN-PLACE, AND NEW WORK.
6. ALL WORK NOTED "N.I.C." IS NOT MEANT TO BE PART OF THE CONSTRUCTION SCOPE OF WORK AGREEMENT.
7. THE CONTRACTOR SHALL PAY FOR AND COORDINATE THE REMOVAL AND LEGAL DISPOSAL OF MATERIALS AND RUBBISH.
8. ONCE ON SITE, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL VERIFY ALL NEW AND EXISTING CONDITIONS, SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
9. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
10. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD SURFACES ARE TO RECEIVE ONE PRIMER COAT AND TWO COATS OF PAINT.
11. DIMENSIONS NOTED AS 'HOLD' SHALL NOT VARY BY MORE THAN 1/8" FROM SIDE TO SIDE OR FROM FRONT TO BACK, FINISHED SURFACE TO FINISHED SURFACE.
12. NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, AND ALTERATION OPERATIONS SHALL BE APPLIED.
13. WALL AND/OR CEILING ASSEMBLIES THAT ARE IDENTIFIED WITH A FIRE RESISTIVE RATING SHALL BE CONSTRUCTED AS DETAILED HEREIN.
14. DIMENSIONS SHOWN ARE TO FACE OF STUD OR CMU (U.N.O.).
15. PROVIDE EXPANSION AND CONTROL JOINTS IN ALL WORK AS PER PRODUCT MANUFACTURER'S STANDARDS.
16. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES AND SHALL OBTAIN NECESSARY BUILDING AND FIRE PERMITS FROM ALL AUTHORITIES HAVING JURISDICTION.
17. ALL INTERIOR FINISH MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES.
18. ALL DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
19. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS.
20. A FINISH INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH AND HEIGHT OF WALL IS TO BE FINISHED OR FIRE-RATED AS INDICATED.
21. WHEN NON-DIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS, THE DOOR WIDTH AND THE DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT WALLS AND FRAMES.
22. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
23. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR AND WALL SLEEVES INCLUDING CONDUITS WITH ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
24. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT AND PLUMBING WORK. ALL ACCESS PANELS SHALL BE CONCEALED AND LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
25. ALL PIPE DUCTS AND BUS DUCTS THAT PENETRATE FLOOR SLABS OR WALL PARTITIONS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE MOISTURE RESISTIVENESS, FIRE RATING, AND STRUCTURAL INTEGRITY OF THE BUILDING.
26. DO NOT CUT INTO, REMOVE OR ALTER ANY STRUCTURAL MEMBER OR PORTION OF THE FLOOR SYSTEM UNLESS IT IS SPECIFICALLY NOTED OR SHOWN ON THE STRUCTURAL DRAWINGS.
27. INTERIOR PARTITION MOVEMENT CONTROL:
    A. VERTICAL CONTROL JOINTS FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION, UNLESS NOTED OTHERWISE.
    B. PROVISIONS SHALL BE MADE IN THE DESIGN, FABRICATION, AND INSTALLATION OF INTERIOR PARTITIONS FOR TYPICAL FLOOR DEFLECTIONS OF THE STRUCTURE UNDER SUPERIMPOSED LOADS AS FOLLOWS:
        a. TYPICAL ROOF/FLOOR MEMBERS: SPAN/360 BUT NOT LESS THAN 1/2".
28. THE CONTRACTOR SHALL PLAN HIS/HER WORK TO PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES, AND EXECUTE THE WORK IN SUCH A MANNER TO AVOID ANY HAZARD TO PERSONS AND PROPERTY AS NECESSARY.
29. THE CONTRACTOR SHALL COORDINATE THE PHASING OF THE WORK TO BE PERFORMED IN OR ABOUT EXISTING FACILITIES, IF APPLICABLE, WITH THE OWNER PRIOR TO START OF SUCH WORK.

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS
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COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9392
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1309 COLLEGE STREET

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FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

GENERAL NOTES AND ABBREVIATIONS

SHEET ID
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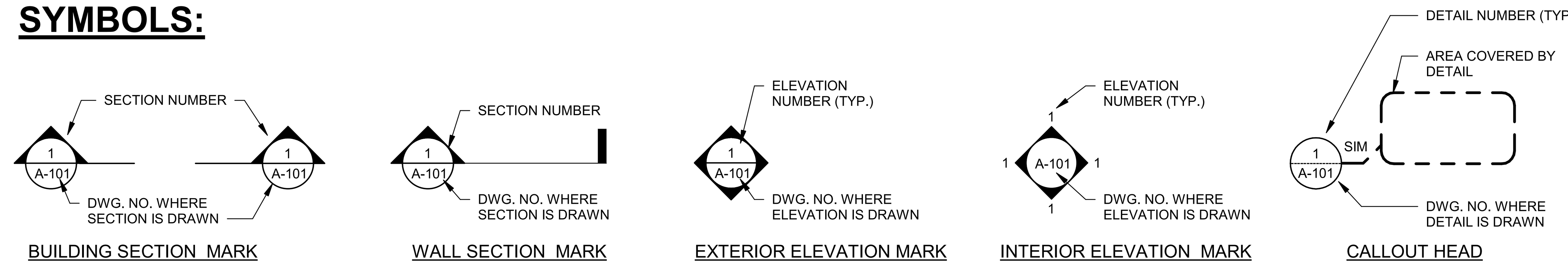
SHEET NAMING CONVENTION

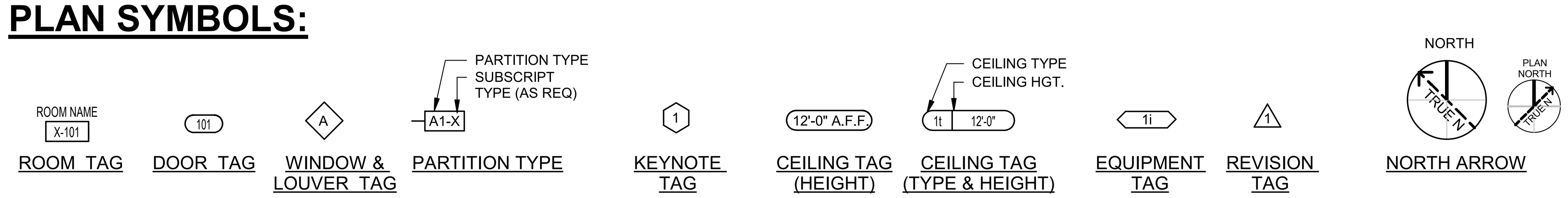
A-001A

- 2 DIGIT DISCIPLINE DESIGNATOR (IF ONLY ONE LETTER IS USED, THE SECOND LETTER IS REPLACED WITH A DASH "-" AS A PLACEHOLDER)**
- 1 DIGIT AREA DESIGNATOR (AREA DESIGNATOR ONLY USED WHEN PLANS ARE SUBDIVIDED INTO AREAS.)
- 1 DIGIT SHEET TYPE DESIGNATOR
  - 0 - GENERAL
  - 1 - PLANS
  - 2 - ELEVATIONS
  - 3 - SECTIONS
  - 4 - ENLARGED PLANS
  - 5 - DETAILS
  - 6 - SCHEDULES AND DIAGRAMS
  - 7 - VARIES
  - 8 - VARIES
  - 9 - 3D VIEWS (ISO, PERSPECTIVES)
- 2 DIGIT SEQUENTIAL # (01-99) (FIRST DIGIT INDICATES PLAN TYPE. SECOND DIGIT INDICATES FLOOR)

SYMBOLS:



PLAN SYMBOLS:



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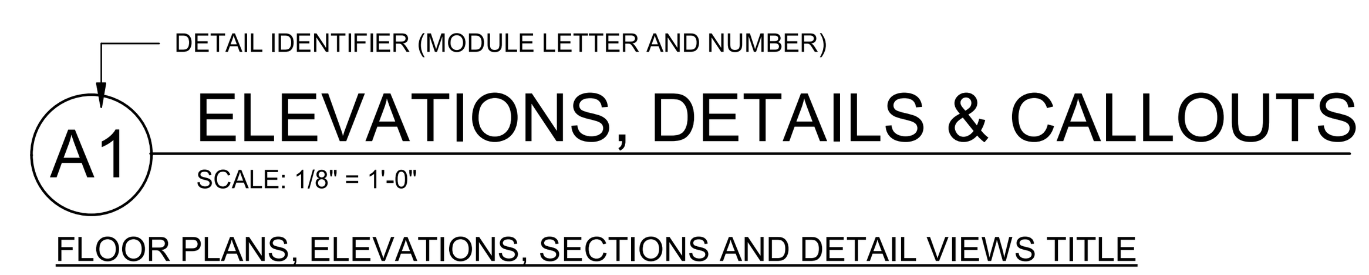
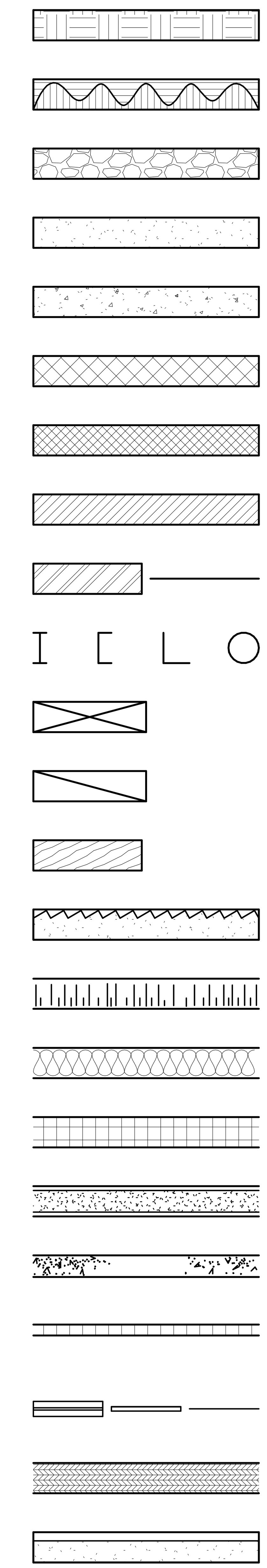
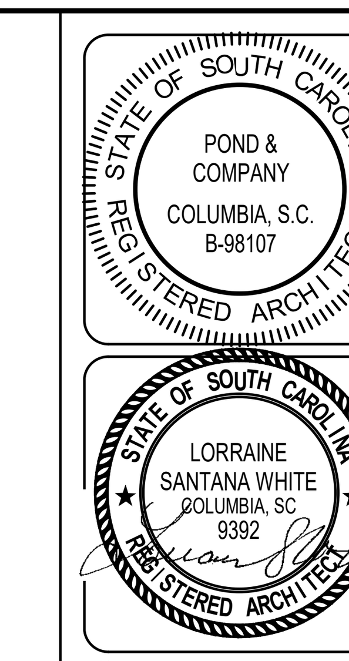


MATERIALS



- COMPACTED EARTH
- ROCK
- ROCKFILL
- SAND / MORTAR
- CONCRETE
- CONCRETE BLOCK(CMU)
- EXTERIOR INSULATION FINISH SYSTEM
- BRICK
- METAL-LARGE SCALE
- METAL-SMALL SCALE
- WOOD-FRAMING (CONTINUOUS)
- WOOD-BLOCKING (DISCONTINUOUS)
- WOOD-FINISH
- PLASTER/MET LATH
- ACOUSTICAL TILE
- INSULATION BATT
- INSULATION RIGID
- GYPSUM BOARD
- TERRAZZO
- CERAMIC TILE
- GLASS
- PLYWOOD
- PLASTER/ROCK LATH



MARK | DESCRIPTION | DATE

ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.: PO# 2069221
FILE NUNBER:
DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Stree, Suite 1300
Columbia, SC 29201
Phone (803) 799-6502
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

SYMBOLS AND MATERIALS

SHEET ID
A-002
SHEET OF

11/6/2020 10:13:40 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

SECTION 01000 - CODES, PERMITS, AND SAFETY

A. ALL PORTIONS OF THE WORK, INCLUDING MECHANICAL AND ELECTRICAL WORK SHALL COMPLY WITH APPLICABLE BUILDING CODES AND STANDARDS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PEOPLE ON OR NEAR THE CONSTRUCTION SITE DURING THE CONSTRUCTION PERIOD. IMPLEMENTATION OF ALL NECESSARY AND PRUDENT SAFETY PRE-CAUTIONS SHALL BE THE FULL RESPONSIBILITY OF THE GENERAL CONTRACTOR. METHODS OF CONSTRUCTION AND ERECTION OF MATERIALS AND ASSEMBLIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

SECTION 01001 - PLANS AND SPECIFICATIONS

A. THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS ARE INTENDED TO DESCRIBE AND PROVIDE FOR A FINISHED PIECE OF WORK. THEY ARE INTENDED TO BE COOPERATIVE, AND WHAT IS CALLED FOR BY EITHER SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. THE CONTRACTOR SHALL UNDERSTAND THAT THE WORK HEREIN DESCRIBED SHALL BE COMPLETE IN EVERY DETAIL, NOT WITHSTANDING EVERY ITEM NECESSARILY INVOLVED IS NOT SPECIFICALLY MENTIONED, AND THE CONTRACTOR WILL BE HELD TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE ENTIRE COMPLETION OF THE WORK DESCRIBED, AND SHALL NOT AVAIL HIMSELF OR HERSELF OF ANY MANIFESTLY UNINTENTIONAL ERROR OR EMISSION SHOULD SUCH EXIST. SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR, BEFORE PROCEEDING WITH THE WORK, SHALL MAKE MENTION OF THE SAME TO THE OWNER'S PROJECT MANAGER IN WRITING FOR PROPER ADJUSTMENT, AND IN NO CASE SHALL HE PROCEED WITH THE WORK IN UNCERTAINTY. AIA GENERAL CONDITIONS A-201 LATEST EDITION SHALL APPLY BY REFERENCE.

B. TITLES TO CHAPTERS AND PARAGRAPHS IN THESE SPECIFICATIONS ARE INDICATED MERELY FOR CONVENIENCE AND SHALL NOT BE CONSTRUCTED AS A CORRECT OR COMPLETE SEGREGATION OF THE SEVERAL UNITS OF MATERIALS AND CONTRACTOR OR HIS SUBCONTRACTORS, DUE TO REAL OR ALLEGED ERROR IN ARRANGEMENT OF MATTER IN THESE SPECIFICATIONS.

C. IT SHALL BE THE DUTY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS GIVEN ON THE DRAWINGS AND TO REPORT ANY ERRORS OR INCONSISTENCIES TO THE OWNER'S PROJECT MANAGER BEFORE COMMENCING THE WORK. IN SUBMITTING A PROPOSAL, IT WILL BE CONSTRUED BY THE OWNER THAT THE BIDDER HAS EXAMINED AND FAMILIARIZED HIMSELF WITH THE SITE AND HAS CAREFULLY CHECKED ALL THE DETAILS AND ASSURED HIMSELF OR HERSELF THAT THEY CONFORM IN EVERY RESPECT WITH BOTH LOCAL AND STATE REQUIREMENTS. IGNORANCE OR FAILURE ON THE PART OF THE CONTRACTOR OR SUBCONTRACTOR TO EXAMINE OR FAMILIARIZE THEMSELVES WITH THE SITE WILL NOT BE ACCEPTED AS AN EXCUSE FOR CLAIMS TO EXTRA OR ADDITIONAL PAYMENT ABOVE CONTRACT PRICE.

D. THE OWNER'S PROJECT MANAGER SHALL WITHIN A REASONABLE TIME MAKE DECISIONS ON ALL POINTS BROUGHT UP BY THE CONTRACTOR, ON MATTERS RELATING TO THE INTERPRETATION OF THE PLANS, THE SPECIFICATIONS AND THE EXECUTION, AND THE PROGRESS OF THE WORK.

E. SHOULD ANY DISPUTE ARISE AS TO THE QUALITY OR FITNESS OF MATERIALS OR WORKMANSHIP OR INTERPRETATION OF THE PLANS AND SPECIFICATIONS, THE DECISION SHALL REST WITH THE OWNER'S PROJECT MANAGER AND SHALL BE BASED ON THE REQUIREMENTS THAT ALL WORK DONE AND ALL MATERIALS FURNISHED SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND WHAT IS USUAL, CUSTOMARY, AND STANDARD PRACTICE IN RENOVATIONS OF BUILDINGS OF SIMILAR TYPE.

F. WHERE NECESSARY FOR FIELD WORK, OR PROPER INTERPRETATION OF THE GENERAL PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS OR ANY OTHER CONTRACTOR'S WORK, THREE COPIES OF AMPLIFIED DETAILS AND SCHEDULES FOR THE APPROVAL OF THE OWNER'S PROJECT MANAGER AND SHALL FURNISH THE PROJECT MANAGER THREE COPIES OF THE FINAL DETAILS, ONE TO BE RETURNED TO THE CONTRACTOR APPROVED AND TWO TO REMAIN IN THE PROJECT MANAGER'S FILES.

G. FIGURED DIMENSIONS AND DETAILED DRAWINGS SHALL BE FOLLOWED. IF THERE IS DOUBT ON THE PART OF THE CONTRACTOR AS TO THE EXACT MEANING OF THE DRAWINGS AND THESE SPECIFICATIONS, HE SHALL APPLY TO THE OWNER'S PROJECT MANAGER FOR AN INTERPRETATION BEFORE PROCEEDING WITH HIS WORK.

H. SHOULD DISCREPANCIES APPEAR AMONG THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION FROM THE OWNER'S PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK. IF THE CONTRACTOR FAILS TO MAKE SUCH REQUEST, NO EXCUSE WILL THEREAFTER BE ENTERTAINED FOR FAILURE TO CARRY OUT WORK IN THE REQUIRED MANNER OR PROVIDE REQUIRED GUARANTEES, WARRANTIES, OR BONDS. SHOULD CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, CONTRACTOR IS DEEMED TO HAVE ESTIMATED ON BETTER QUALITY AND LARGER QUANTITY OF WORK, UNLESS HE SHALL HAVE REQUESTED AND OBTAINED WRITTEN DECISION FROM THE OWNER'S PROJECT MANAGER BEFORE SUBMISSION OF BID AS TO WHICH METHOD OR MATERIALS WILL BE REQUIRED.

I. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE ALL DRAWINGS, SPECIFICATIONS, OTHER INSTRUCTIONS. WHERE DIMENSIONS ARE GOVERNED BY EXISTING CONDITIONS OR BY CONDITIONS ALREADY ESTABLISHED, CONTRACTOR SHALL TAKE ACTUAL MEASUREMENTS HIMSELF AND SHALL REPORT IN WRITING TO THE OWNER'S PROJECT MANAGER, FOR EXPLANATION OR ADJUSTMENT, ANY ERRORS, DISAGREEMENTS OR INCONSISTENCIES IN THE DRAWINGS AND SPECIFICATIONS OR FIGURED DIMENSIONS OF THE DRAWINGS WHICH MAY EXIST OR APPEAR TO EXIST, BEFORE PROCEEDING TO EXECUTE THAT PART OF THE WORK AFFECTED. THEREBY, THIS FIELD VERIFICATION SHALL BE DONE WITHIN TEN DAYS OF THE RECEIPT OF THE DRAWINGS, SPECIFICATIONS AND INSTRUCTIONS. FAILURE TO DO SO SHALL CONSTITUTE A WAIVER OF ALL RIGHT TO OR CLAIM FOR EXTRA WORK ON SUCH ACCOUNT.

J. NO DEVIATION FROM SPECIFICATIONS, DRAWINGS OR INSTRUCTIONS SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION BY THE OWNER'S PROJECT MANAGER.

SECTION 01002 - MATERIAL, LABOR, APPLIANCES

A. UNLESS OTHERWISE STIPULATED, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND POWER, TRANSPORTATION AND OTHER FACILITIES NECESSARY FOR THE EXECUTION OF THE WORK.

1. SEPARATE CONTRACTS BY OWNER: FURNISHINGS.

B. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE THE BEST OF THESE RESPECTIVE KINDS. THE CONTRACTOR SHALL, IF REQUIRED, FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS.

C. ONLY SKILLED, THOROUGHLY TRAINED AND EXPERIENCED FOREMEN AND WORKMEN SHALL BE EMPLOYED ON THE WORK, CONFIRM SECURITY CLEARANCE REQUIREMENTS WITH THE OWNERS PROJECT MANAGER AND WHEN REQUIRED BY THE OWNER, THE CONTRACTOR SHALL DISCHARGE AND SHALL NO RE-EMPLOY ON THE WORK, ANY PERSON WHO COMMITS TRESPASS, OR WHO IS IN THE OPINION OF THE OWNER, DISORDERLY, DANGEROUS, INSUBORDINATE, INCOMPETENT, OR OTHERWISE OBJECTIONABLE, NOR SHALL HE EMPLOY ANY PERSON WHO HAS BEEN DISCHARGED BY ANOTHER CONTRACTOR UPON THE ORDER OF THE OWNER'S PROJECT MANAGER.

D. UNLESS OTHERWISE STIPULATED, NO ALLOWANCE OR COMPENSATION WHATSOEVER SHALL BE DUE OR PAID TO THE CONTRACTOR FOR ANY TEMPORARY WORK OR STRUCTURES THAT HE MAY MAKE TO FACILITATE HIS WORK, NOR FOR ANY CONSTRUCTION PLANT, TOOLS OR EQUIPMENT WHICH MAY BE REQUIRED IN THE PERFORMANCE OF THE WORK.

E. ALL WORK AND MATERIALS DELIVERED ON THE PREMISES SHALL BE INTENDED TO FORM PART OF THE WORK AND SHALL NOT BE REMOVED WITHOUT CONSENT OF THE OWNER. THE CONTRACTOR SHALL HAVE THE RIGHT TO REMOVE ALL SURPLUS MATERIALS AFTER THE COMPLETION OF ALL WORK INCLUDED IN THE CONTRACT.

F. IT SHALL BE THE DUTY OF THE GENERAL CONTRACTOR TO SEE THAT ALL SUBCONTRACTORS ARE FULLY INFORMED IN REGARD TO THE GENERAL CONDITIONS AND REQUIREMENTS.

SECTION 01004 - PROTECTION OF WORK AND PROPERTY

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL VIOLATIONS OF CITY ORDINANCES AND LAWS INVOLVED IN THE PERFORMANCE OF HIS WORK; FOR OBSTRUCTION OF STREETS, SIDE-WALKS, AND PAVEMENTS AND SHALL REMEDY ANY DAMAGE TO ANY OTHER PORTION OF BUILDING.

B. CONTRACTOR SHALL USE PRECAUTION NECESSARY TO PROVIDE SAFEGUARDS AND PROTECTION AGAINST ACCIDENTS, INJURY AND DAMAGE TO PERSONS AND PROPERTY INCLUDING ADJOINING PROPERTY.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK AND EVERY PART THEREOF, AND FOR ALL MATERIALS, TOOLS, APPLIANCES AND PROPERTY OF EVERY DESCRIPTION USED IN CONNECTION THEREWITH.

D. IF ANY PORTION OF THE EXISTING BUILDING, UTILITIES, SITE WORK OR ANY OF THE OWNER'S EXISTING FACILITIES ARE DAMAGED BY OPERATIONS OR CONSTRUCTION OPERATIONS OF THE GENERAL CONTRACTOR, HE SHALL BE OBLIGATED TO REPAIR RESTORE OR REPLACE THE DAMAGED AREA AT NO COST TO OWNER.

E. IF ANY UTILITY IS INTERRUPTED THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DAMAGE CAUSED INCLUDING THE COST OF EQUIPMENT, LABOR AND LOST PERSONAL TIME. COORDINATE ANY UTILITY OUTAGES WITH THE OWNER 48 HOURS IN ADVANCE.

SECTION 01005 - SUPERVISION

A. THE CONTRACTOR SHALL GIVE PERSONAL SUPERVISION TO THE WORK, USING HIS BEST SKILL AND ATTENTION, AND SHALL KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS CONSTANTLY ON THE JOBSITE. THE FOREMAN SHALL BE THE PERSONAL REPRESENTATIVE OF THE CONTRACTOR AND ALL DIRECTIONS GIVEN BY HIM SHALL BE AS BINDING AS IF GIVEN BY THE CONTRACTOR. COMMUNICATION DELIVERED TO THE FOREMAN BY OWNER'S PROJECT MANAGER SHALL BE AS BINDING AS IF DELIVERED TO THE CONTRACTOR.

SECTION 01006 - TEMPORARY FACILITIES

A. TEMPORARY POWER: GENERAL CONTRACTOR MAY USE EXISTING ELECTRICAL POWER IN THE EXISTING BUILDING FOR CONSTRUCTION OPERATIONS. ALL TEMPORARY ELECTRICAL USES SHALL COMPLY WITH NATIONAL ELECTRIC CODE AND ALL ITEMS SHALL BE REMOVED AT PROJECT COMPLETION. NO USE CHARGES WILL BE BILLED TO CONTRACTOR.

B. TEMPORARY WATER: GENERAL CONTRACTOR MAY USE EXISTING WATER IN THE EXISTING BUILDING FOR CONSTRUCTION OPERATIONS. NO USE CHARGES WILL BE BILLED TO CONTRACTOR. OWNER RESERVES THE RIGHT TO CHARGE FOR ANY EXCESSIVE USAGE.

C. DUMPSTER: CONTRACTOR SHALL PROVIDE HIS OWN DUMPSTER FOR REMOVAL OF ALL CONSTRUCTION DEBRIS. GENERAL CONTRACTOR SHALL RECYCLE CARPET AND OTHER MATERIALS WHERE POSSIBLE. COORDINATE DUMPSTER LOCATION WITH OWNER'S PROJECT MANAGER.

D. PARKING: AS DIRECTED BY OWNER'S PROJECT MANAGER.

SECTION 01008 - CLEANING

A. THE CONTRACTOR SHALL AT TIMES KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE AND FLAMMABLE MATERIAL OR RUBBISH CAUSED BY HIS EMPLOYEES OR OTHERS DURING THE PROGRESS OF THE WORK. AT THE COMPLETION OF THE WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, CLEAR AWAY AND REMOVE FROM THE PREMISES AND FROM PUBLIC AND PRIVATE ROADS ALL PLANT DEBRIS, RUBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS DUE TO HIS OPERATIONS, AND SHALL LEAVE THE PREMISES AND THE WORK IN NEAT ORDER AND REPAIR, AND THE SPACES VACUUMED CLEAN AND READY TO USE.

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9382
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.: PO# 2069221
FILE NUNBER:
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: 803.799.1002
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

ARCHITECTURAL SPECIFICATIONS

SHEET ID
A-003
SHEET OF

11/6/2020 10:13:41 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

DEMOLITION PLAN SHEET NOTES:

1. CONTRACTOR SHALL MAKE EVERY EFFORT TO COORDINATE TO ALLOW A SMOOTH TRANSITION FROM EXISTING AREAS.
2. WHERE PLANS INDICATE THE REMOVAL OF AN ITEM AND INSTALLATION OF A NEW ITEM, CONTRACTOR SHALL DEMOLISH AND REPAIR ANY CONSTRUCTION NECESSARY TO COMPLETE THE TASK. CONSULT THE REST OF THE CONTRACT DOCUMENTS.
3. WORK SHALL BE ACCOMPLISHED TO ENSURE EXITS ARE OPEN FOR PUBLIC AND EMERGENCY USE. CONTRACTOR SHALL PROVIDE DUST BARRIERS AND SEAL MECHANICAL RETURNS TO REDUCE CONSTRUCTION DUST. SEE DUST CONTROL NOTES BELOW.
4. CONTRACTOR SHALL READ AND UNDERSTAND ALL NOTES HEREWITH AND ADHERE CAREFULLY TO THEM THROUGHOUT PROJECT DURATION.
5. MAKE A SURVEY OF THE JOB SITE BEFORE ANY WORK BEGINS AND VERIFY ALL DIMENSIONS AS SHOWN IN PLANS. NOTIFY IMMEDIATELY OF ANY DISCREPANCIES FROM THESE PLANS WHICH SHALL CHANGE THE INTENDED DESIGN.
6. ALL WORK TO COMPLY WITH THE REQUIREMENTS OF ALL GOVERNING CODES, RULES, REGULATIONS AND LAWS HAVING JURISDICTIONS.
7. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
8. DIMENSIONS GIVEN IN FIGURES IN THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND ALL DIMENSIONS WHETHER GIVEN IN FIGURES OR SCALED, SHALL BE VERIFIED IN THE FIELD.
9. DURING AND AT THE COMPLETION OF THE CONTRACTOR'S DAILY WORK, THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANING UP AND REMOVAL OF ALL DEBRIS BEFORE LEAVING THE PROJECT SITE EACH DAY. THE FOLLOWING ARE STRICTLY PROHIBITED WORK PRACTICES:
   A. IMPOSING ANY STRUCTURAL LOAD, TEMPORARY OR PERMANENT ON ANY PART OF THE BUILDINGS STRUCTURES WITHOUT PRIOR WRITTEN APPROVAL.
   B. CUTTING ANY HOLES IN FLOOR SLABS, WALLS OR ROOF WITHOUT PRIOR APPROVAL. BEFORE STARTING ANY SLAB WORK, CHECK TO DETERMINE IF ANY COMMON UTILITY OR OTHER UTILITY LINES EXIST WITHIN THE SPACE.
   C. USE OF ANY HAZARDOUS MATERIALS FOR NEW CONSTRUCTION.
10. PROVIDE ALL INSURANCE, LICENSES, BONDING AND RELEASE OF LIENS REQUIRED BY THE GOVERNMENT. PROVIDE COPIES OF INSURANCE, LICENSES, AND BONDING AT THE START OF CONSTRUCTION. RELEASE OF LIENS SHALL BE PROVIDED AT THE CONCLUSION OF CONSTRUCTION.
11. CONTRACTOR IS TO PREPARE FLOORS AND WALLS AS NECESSARY TO RECEIVE NEW FINISHES. CONTRACTOR TO PROTECT EXISTING FLOOR AND WALL FINISHES THAT ARE TO REMAIN FROM DAMAGE DURING THE CONSTRUCTION PROCESS.
12. ITEMS NOT INDICATED ON THESE DRAWINGS MAY NOT REFLECT THE ENTIRE EXTENT OF DEMOLITION. COMPLETE DEMOLITION SHALL BE ACCOMPLISHED AS NECESSARY FOR INSTALLATION OF NEW WORK WHETHER SPECIFICALLY CALLED OUT FOR OR NOT.
13. AFTER CONSTRUCTION ALL DEBRIS SHALL BE REMOVED AND ALL FINISHES SHALL BE CLEANED THOROUGHLY. EMPLOY EXPERIENCED WORKERS OR PROFESSIONAL CLEANERS FOR FINAL CLEANING. CLEAN EACH SURFACE OR UNIT OF WORK TO THE CONDITION EXPECTED FROM A NORMAL COMMERCIAL BUILDING CLEANING AND MAINTENANCE PROGRAM.
14. PATCH, REPAIR AND PREPARE ALL SURFACES AFFECTED BY DEMOLITION TO RECEIVE NEW FINISHES.
15. PERFORM SYSTEM TAB PRIOR TO DEMOLITION OF MECHANICAL SYSTEMS TO DETERMINE SUPPLY AND OUTDOOR AIRFLOWS. DISCONNECT EXISTING AIR HANDLER ELECTRICAL COMPONENTS AND WIRING, CONTROLS, AND ASSOCIATED APPURTENANCES. EXISTING ELECTRICAL, CONTROLS, SUPPLY AND RETURN DUCTWORK, NATURAL GAS PIPING, EQUIPMENT STAND, AND ASSOCIATED APPURTENANCES ARE EXISTING TO REMAIN AND BE REUSED. TEMPORARILY CAP DUCTWORK AND NATURAL GAS LINE FOR CONNECTION TO NEW. EXISTING ELECTRICAL CONNECTIONS AND CONTROLS SHALL BE PRESERVED AND PROTECTED FOR CONNECTION TO NEW UNIT.

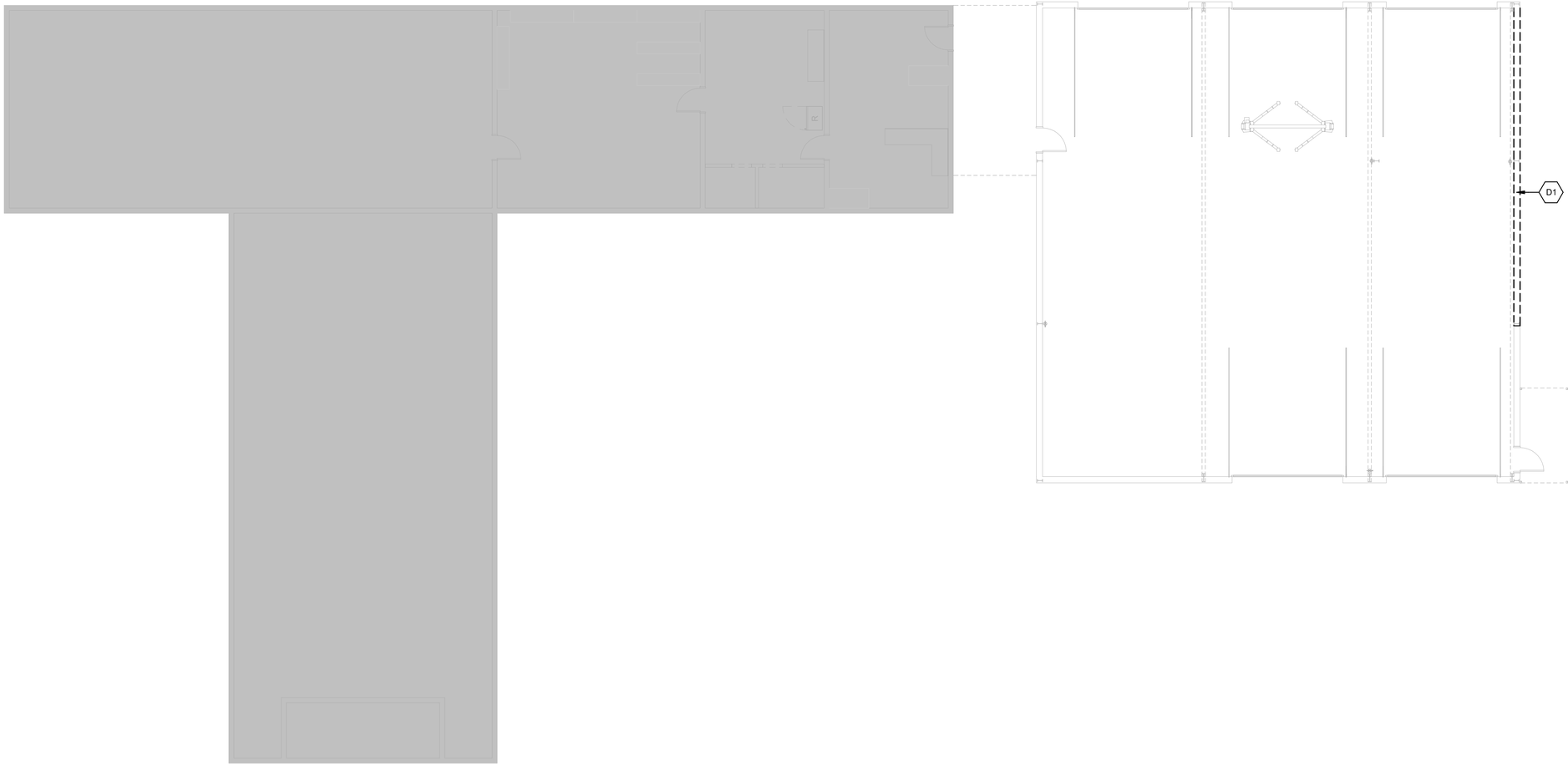
KEYNOTES:

(KEYNOTE NUMBERS ARE UNIFORM ACROSS ALL SHEETS AND SOME MAY NOT BE REQUIRED ON THIS SHEET)

KEY #	KEYNOTE DESCRIPTION
D1	REMOVE EXTERIOR METAL PANEL AND INSULATION UP TO ROOF. PREPARE EXISTING STRUCTURE TO RECEIVE NEW INSULATION AND FINISH.

DEMOLITION PLAN LEGEND

	EXISTING CMU AND / OR STUD WALLS / PARTITIONS TO REMAIN
	EXISTING CMU AND / OR STUD WALLS / PARTITIONS TO BE DEMOLISHED
	EXISTING DOOR, FRAME AND ACCESSORIES TO REMAIN
	EXISTING DOOR, FRAME AND ACCESSORIES TO BE DEMOLISHED
	NOT IN CONTRACT (N.I.C.)



A1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

8 0 8 16
SCALE: 1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

STATE OF SOUTH CAROLINA
POND & COMPANY
COLUMBIA, S.C.
B-98107
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
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NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1501 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: 803.799.2002
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

ARCHITECTURAL DEMOLITION PLAN

SHEET ID
AD101
SHEET OF

11/6/2020 10:13:51 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

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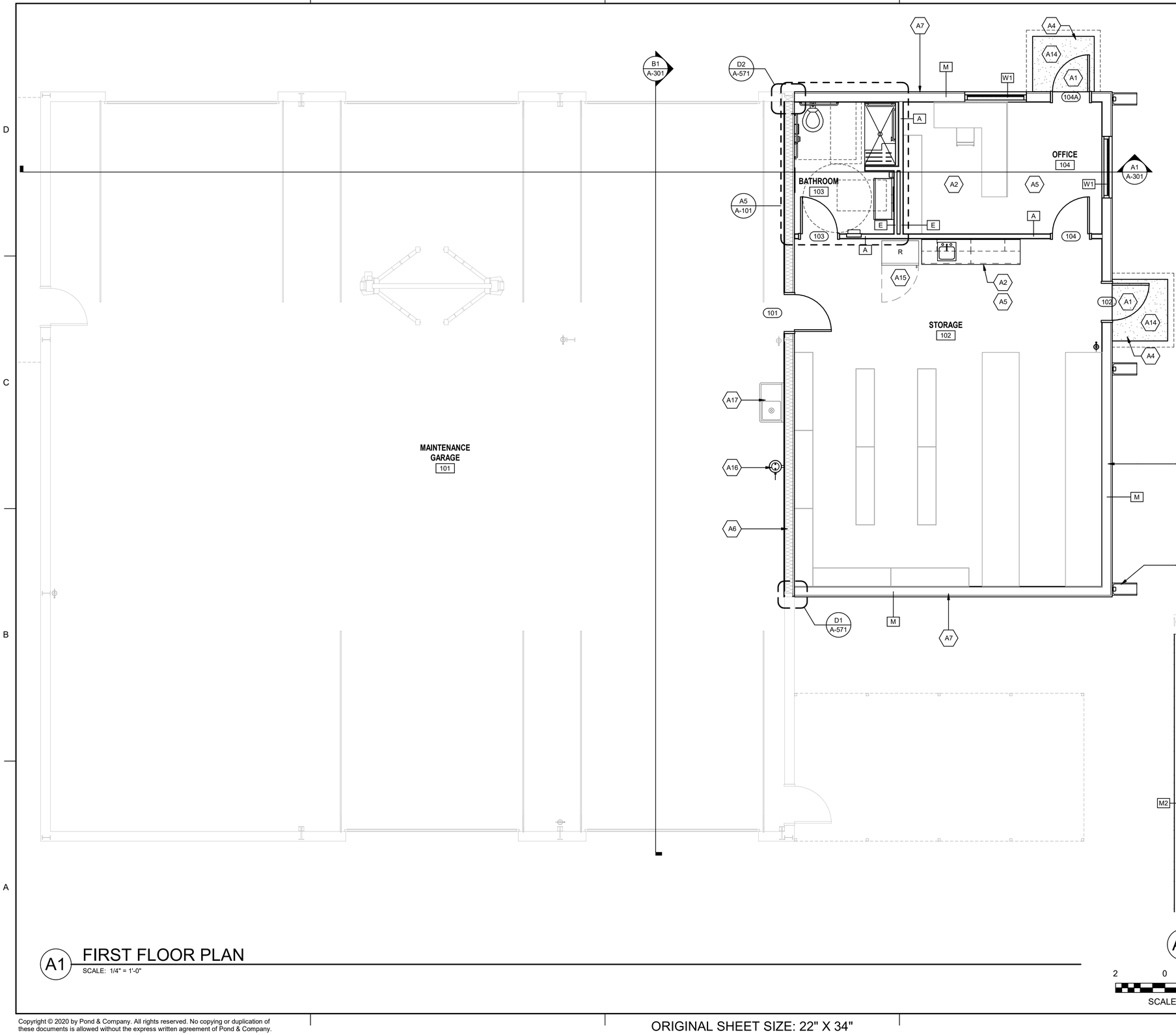


FLOOR PLAN NOTES:

1. SOUND ATTENUATION WITHIN WALLS AT OFFICE AND BATHROOM.
2. ALL MILLWORK TO BE LAMINATE CABINETRY W/ STAINLESS STEEL COUNTERTOP.
3. SEE A-601 FOR WALL TYPES.

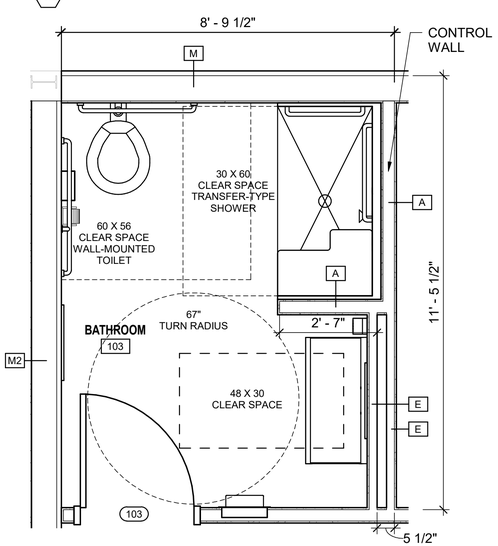
WALL LEGEND

	EXISTING CMU AND / OR STUD WALLS / PARTITIONS TO REMAIN
	NEW CMU AND / OR STUD WALLS / PARTITIONS

KEYNOTES:

(KEYNOTE NUMBERS ARE UNIFORM ACROSS ALL SHEETS AND SOME MAY NOT BE REQUIRED ON THIS SHEET)

KEY #	KEYNOTE DESCRIPTION
A1	DOOR HARDWARE BY OWNER.
A2	FURNITURE AND SHELVING BY OWNER.
A4	PRE-ENGINEERED METAL CANOPY AT NEW EXTERIOR DOOR.
A5	INTEGRAL COLOR CONCRETE FLOORING.
A6	SEALED SMOKE WALL SEPARATION AT NEW ADDITION. INSTALL INSULATION AND SOUND ATTENUATION WITHIN EXISTING EXTERIOR WALL SYSTEM UP TO ROOF LINE. FINISH WITH 5/8" ABUSE RESISTANT GYPSUM BOARD UP TO TOP OF SECOND GIRT.
A7	PREFAB METAL BUILDING SYSTEM W/ STANDARD INSULATION. FINISH W/ 1 1/2" METAL PANEL.
A12	PRE-FINISHED 2"X3" DOWNSPOUT ASSEMBLY WITH SPLASH BLOCK. (TYPICAL)
A14	NEW CONCRETE PAD AT NEW EXTERIOR DOOR.
A15	REFRIGERATOR - OFCI.
A16	NEW EYEWASH STATION. SEE PLUMBING.
A17	NEW STAINLESS STEEL SINK. SEE PLUMBING.



A1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

A5 ENLARGED RESTOOM PLAN
SCALE: 1/2" = 1'-0"

2 0 2 4 — SCALE: 1/2" = 1'-0"

4 0 4 8 — SCALE: 1/4" = 1'-0"

PLAN NORTH / TRUE NORTH

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECTS — POND & COMPANY COLUMBIA, S.C. B-98107

STATE OF SOUTH CAROLINA — LORRAINE SANTANA WHITE COLUMBIA, SC 9382 — REGISTERED ARCHITECT

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NEWBERRY COUNTY
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1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
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JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

FLOOR PLANS

SHEET ID
A-101
SHEET OF

11/6/2020 10:13:42 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Archi_vr19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

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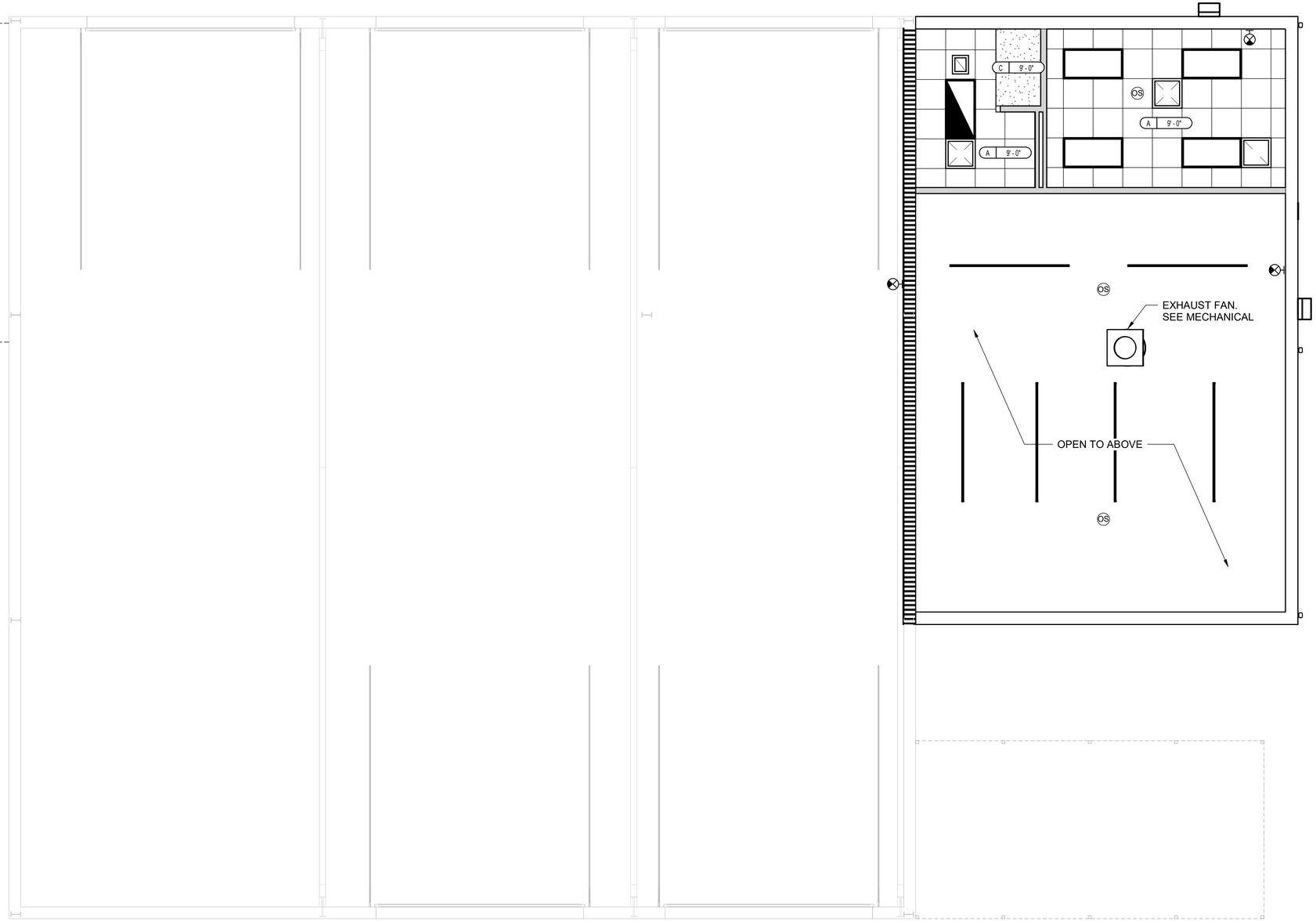


GENERAL RCP SHEET NOTES:

1. ALL MATERIAL EXPOSED WITHIN A RETURN AIR CEILING PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL BE LIMITED IN COMBUSTIBILITY AND HAVE A FLAME SPREAD INDEX OF 25 MAX. AND A SMOKE- DEVELOPMENT INDEX OF 50 MAX., PER ASTM E84.
2. IN TOILETS, ALL GYPSUM BOARD CEILINGS SHALL BE WATER RESISTANT GYPSUM BOARD.
3. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O. CENTER SPRINKLER HEADS IN ACOUST. CEILING PANELS WHERE THEY OCCUR - COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILING. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED. CONTRACTING OFFICER IS TO REVIEW INSTANCE OF NON-EQUAL SPACING PRIOR TO INSTALLATION.
4. CEILING HEIGHTS INDICATED (I.E. 9'-0") ARE RELATIVE TO THE FINISH FLOOR ELEVATION OF THE ROOM FOR WHICH THEY ARE INDICATED.
5. CEILING GRIDS SHALL BE ORIENTED WITHIN SPACES AS SHOWN, U.N.O. FULL TILE (FT) WHERE INDICATED, SHALL ABUT DESIGNATED WALL. LIMIT PARTIAL PANELS TO NO LESS THAN 6".
6. DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. ALL DEVICES MAY NOT BE SHOWN.
7. THE CONTRACTOR SHALL ENSURE THE INSTALLATION OF ALL DEVICES INDICATED ON THE ENGR. DWG. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
8. AT WALLS WITH SOUND ATTENUATION BLANKETS, EXTEND TO STRUCTURE ABOVE.
9. COORDINATE ACCESS PANELS WITH MECHANICAL BALANCING DAMPER LOCATIONS.

REFLECTED CEILING PLAN LEGEND

- 2' X 4' LAY-IN LIGHT FIXTURE
- 2' X 4' EMERGENCY LAY-IN LIGHT FIXTURE
- 8' LED LENSED STRIPLIGHT
- MECH. DIFFUSERS
- MECH. RETURN AIR GRILLES
- EXT. WALL MOUNTED FIXTURE
- WALL MOUNTED EXIT SIGN
- CEILING MOUNTED EXIT SIGN
- OS — OCCUPANCY SENSOR
- A — 2'-0" x 2'-0" ACOUSTICAL CEILING SYSTEM
- C — 5/8" WATER- RESISTANT GYPSUM BOARD

A1 FIRST FLOOR REFLECTED CEILING PLAN

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

4 0 4 8

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

PLAN NORTH / TRUE NORTH

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECT
LORRAINE SANTANA WHITE
COLUMBIA, SC
9382

MARK	DESCRIPTION	DATE

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
FILE NAME:

ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.: PO# 2069221
FILE NUMBER:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1501 Gervais Street, Suite 1300
Columbia, SC 29201
Phone (803) 799-0002
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

REFLECTED CEILING PLAN

SHEET ID

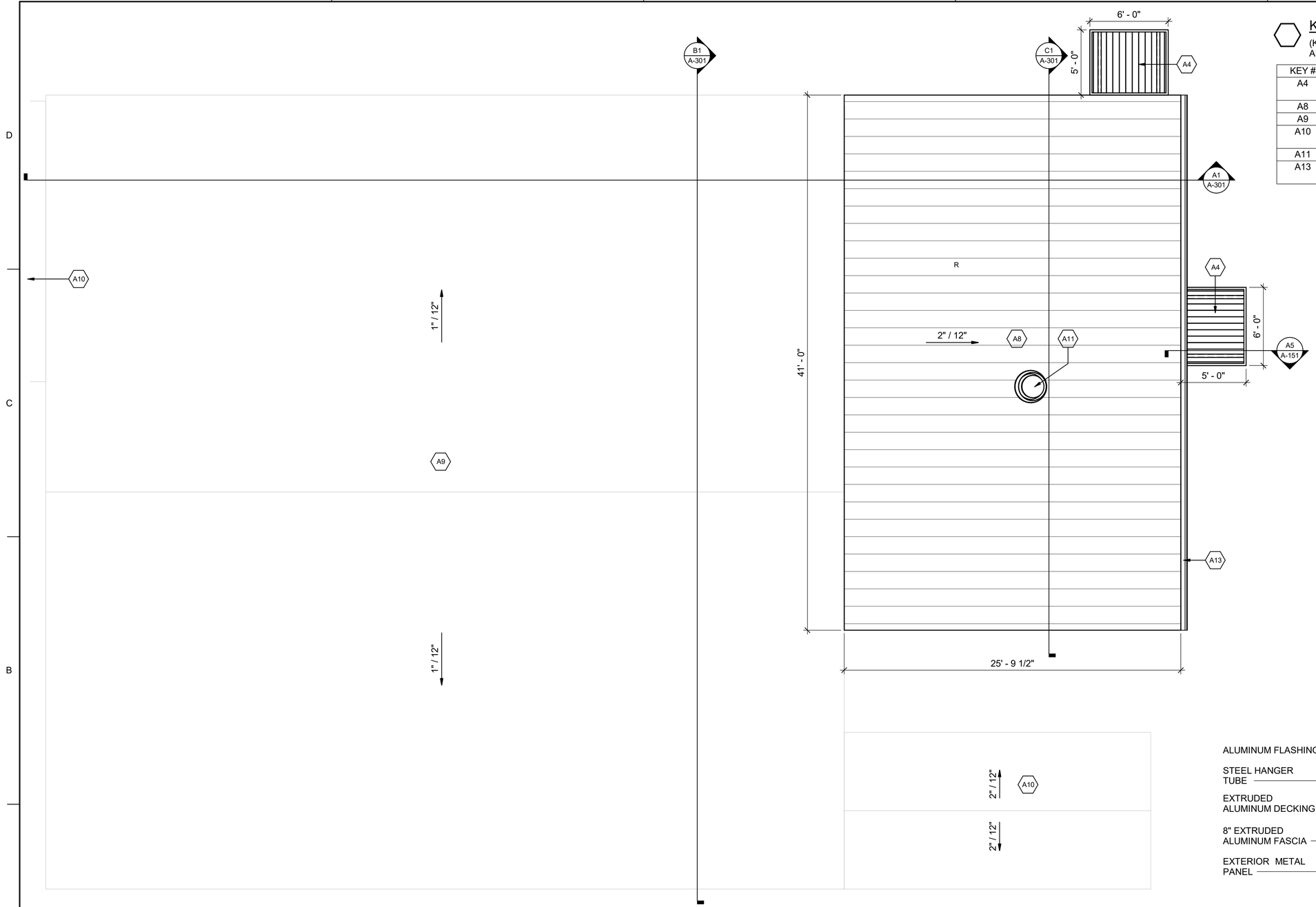
A-131

SHEET OF

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

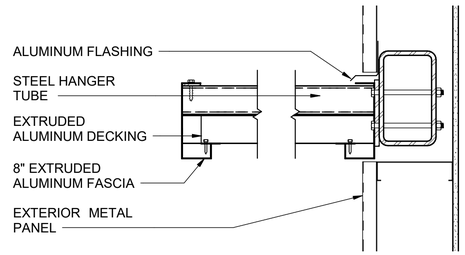
11/6/2020 10:13:43 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch+L_v19_mathisw.rvt



KEYNOTES:

(KEYNOTE NUMBERS ARE UNIFORM ACROSS ALL SHEETS AND SOME MAY NOT BE REQUIRED ON THIS SHEET)

KEY #	KEYNOTE DESCRIPTION
A4	PRE-ENGINEERED METAL CANOPY AT NEW EXTERIOR DOOR.
A8	NEW METAL PANEL ROOF SYSTEM.
A9	EXISTING METAL ROOF SYSTEM TO REMAIN.
A10	EXISTING PRE-ENGINEERED METAL CANOPY TO REMAIN.
A11	EXHAUST FAN. SEE MECHANICAL.
A13	PRE-FINISHED 4"X4" RECTANGULAR GUTTER ASSEMBLY.



A5 CANOPY DETAIL

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

A1 ROOF PLAN

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

4 0 4 8

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

PLAN NORTH / TRUE NORTH

STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA REGISTERED ARCHITECT
LORRAINE SANTANA WHITE
COLUMBIA, SC
9382

MARK	DESCRIPTION	DATE

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.: PO# 2069221
FILE NUMBER:
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: (803) 254-2002
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

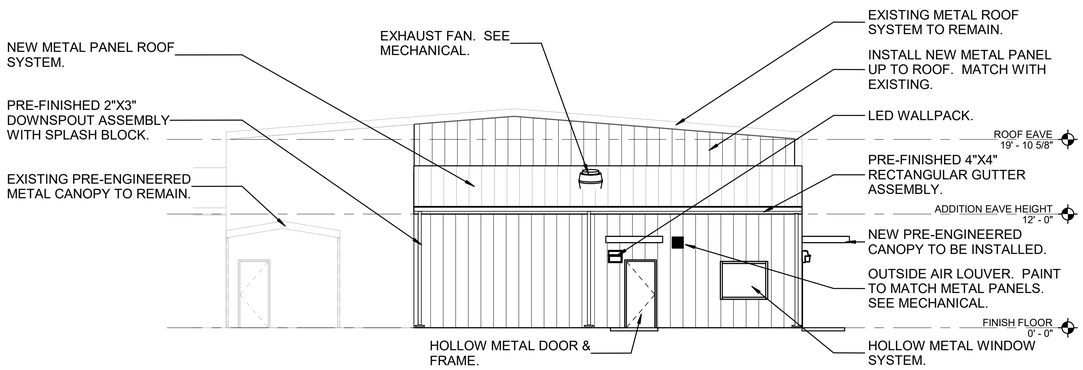
ROOF PLAN

SHEET ID
A-151
SHEET OF

11/6/2020 10:13:44 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Archi_vr19_mathisw.rvt

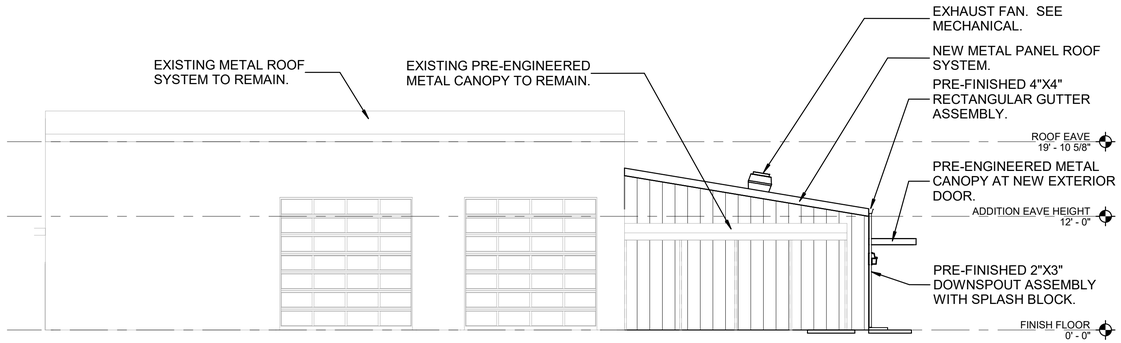
ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID



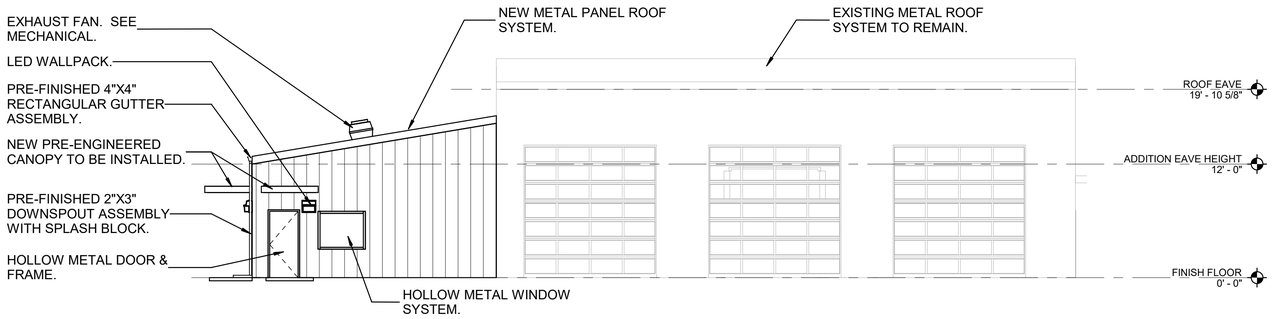
C1 EAST ELEVATION

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



B1 SOUTH ELEVATION

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



A1 NORTH ELEVATION

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

8 0 8 16

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

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9392
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

DESIGNED BY: LEM	ISSUE DATE: NOVEMBER 06, 2020		
DRAWN BY: WLM	SOLICITATION NO.:	CONTRACT NO.: PO# 2069221	
CHECKED BY: LSW		FILE NUMBER:	
SUBMITTED BY:		FILE NAME:	
SIZE: ANSI D			

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1501 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: (803) 799-0002
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

EXTERIOR ELEVATIONS

SHEET ID

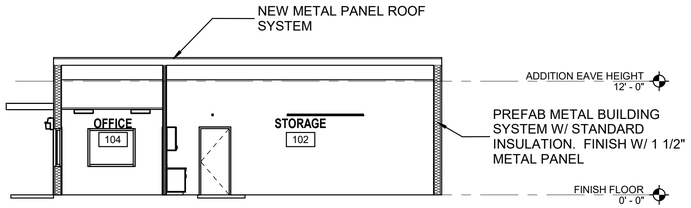
A-201

SHEET OF

ORIGINAL SHEET SIZE: 22" X 34"

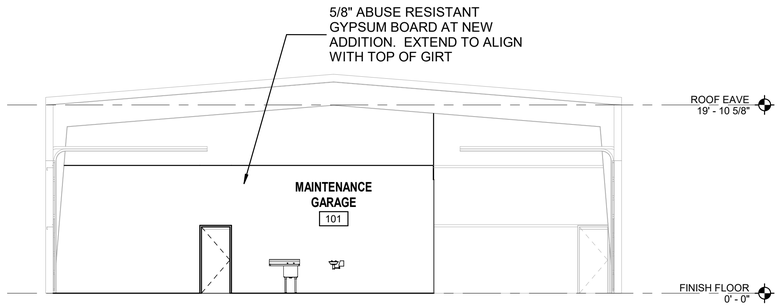
ISSUED FOR BID

11/6/2020 10:13:45 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-L_v19_mathisw.rvt



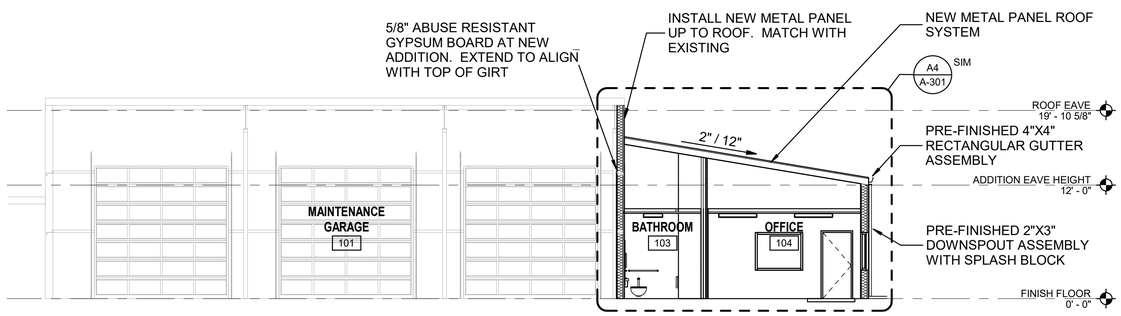
C1 TRANSVERSE SECTION

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



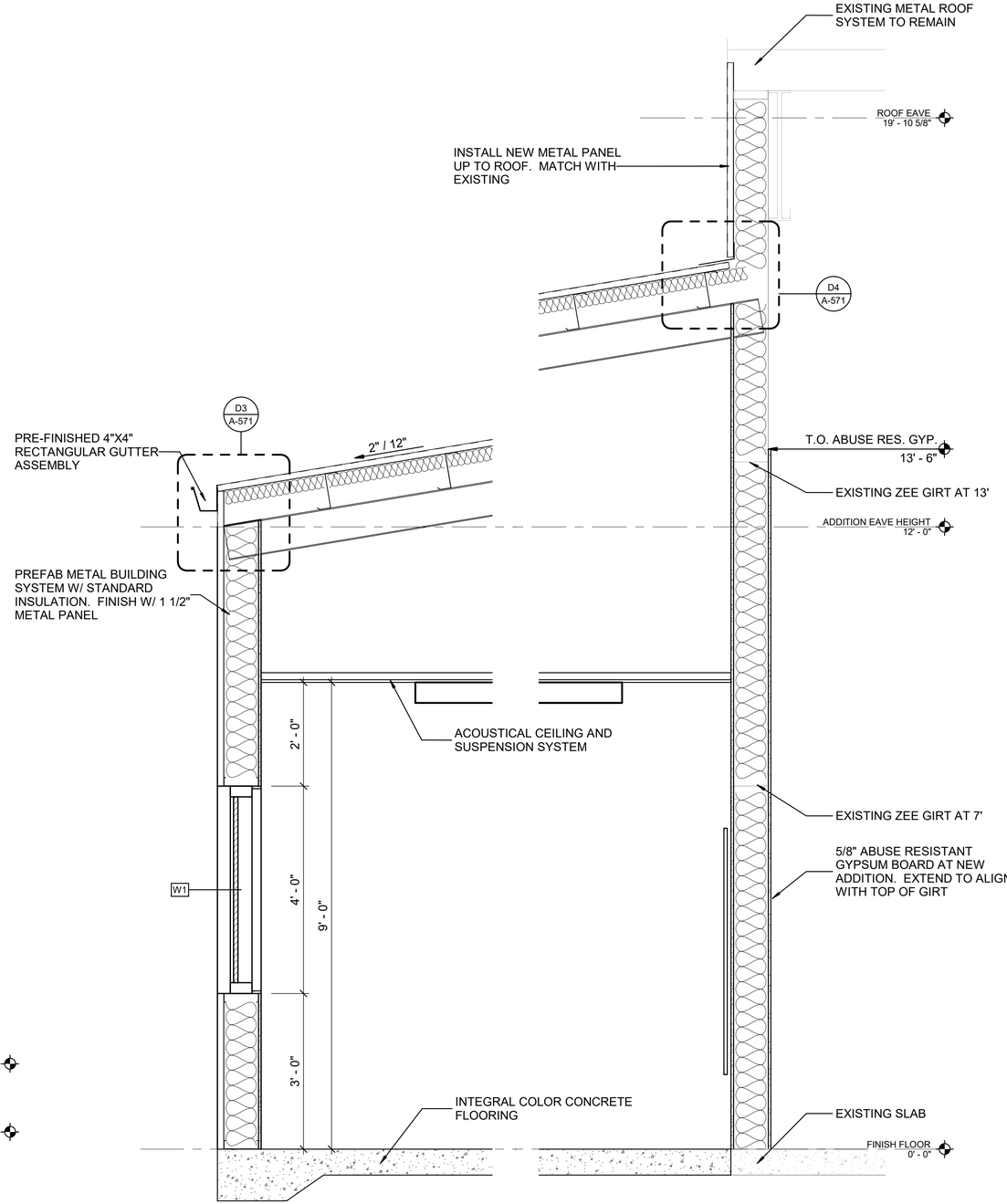
B1 TRANSVERSE SECTION

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



A1 LONGITUDINAL SECTION

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



A4 WALL SECTION

SCALE: 3/4" = 1'-0"

1 0 1 2 3 — SCALE: 3/4" = 1'-0"

8 0 8 16 — SCALE: 1/8" = 1'-0"

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9392
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.:
PO# 2069221
FILE NUMBER:

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: (803) 790-4202
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

BUILDING SECTIONS

SHEET ID

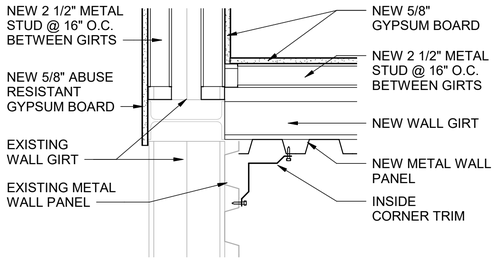
A-301

SHEET OF

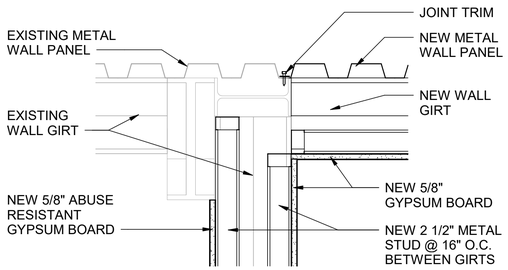
11/6/2020 10:13:47 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_vr19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

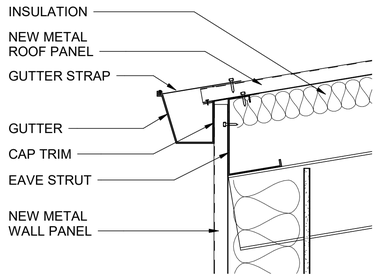
ISSUED FOR BID



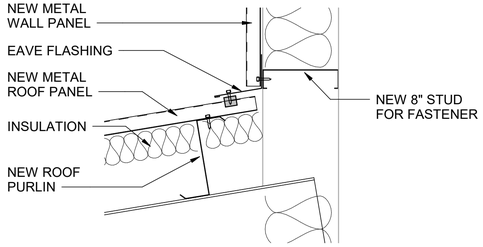
D1 WALL CORNER DETAIL
SCALE: 1 1/2" = 1'-0"



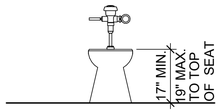
D2 WALL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



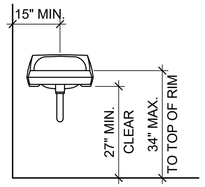
D3 ROOF EDGE DETAIL
SCALE: 1 1/2" = 1'-0"



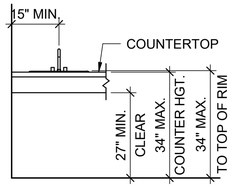
D4 ROOF JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



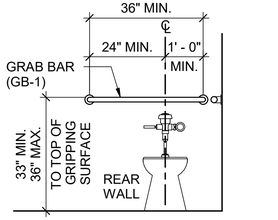
WATER CLOSET
SCALE: 1/2" = 1'-0"



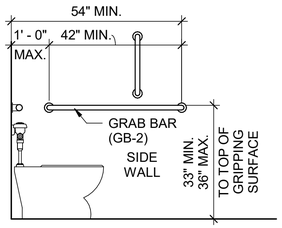
LAVATORY
SCALE: 1/2" = 1'-0"



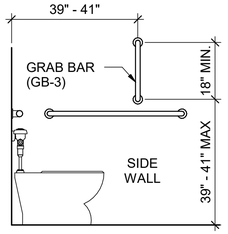
LAVATORY
SCALE: 1/2" = 1'-0"



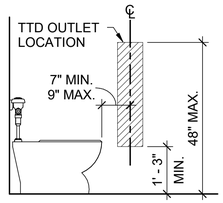
GRAB BAR (GB-1)
SCALE: 1/2"=1'-0"



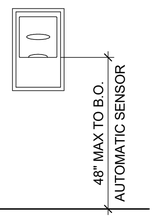
GRAB BAR (GB-2)
SCALE: 1/2"=1'-0"



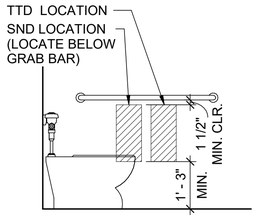
GRAB BAR (GB-3)
SCALE: 1/2"=1'-0"



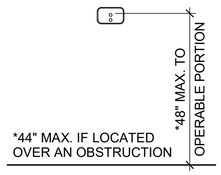
TOILET TISSUE DISPENSER (TTD)
SCALE: 1/2"=1'-0"



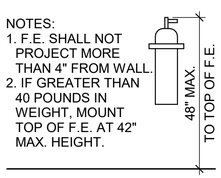
ELECTRIC HAND DRYER (EHD)
SCALE: 1/2"=1'-0"



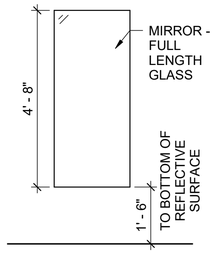
SANITARY NAPKIN DISPOSER (SND)
SCALE: 1/2"=1'-0"



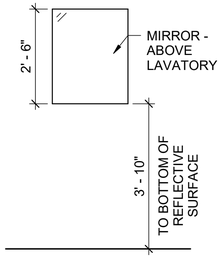
SOAP DISPENSER (SD)
SCALE: 1/2"=1'-0"



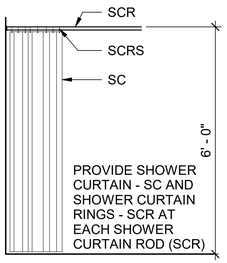
FIRE EXTINGUISHER (FE)
SCALE: 1/2"=1'-0"



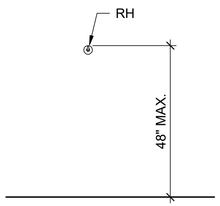
MIRROR - GLASS (MG-1)
SCALE = 1/2" = 1'-0"



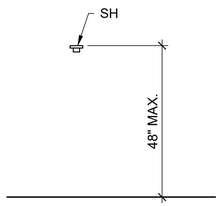
MIRROR - GLASS (MG-2)
SCALE = 1/2" = 1'-0"



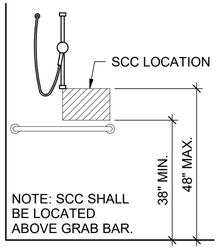
SHOWER CURTAIN ROD (SCR)
SCALE: 1/2"=1'-0"



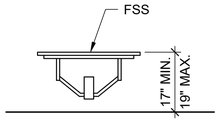
ROBE HOOK (RH)
SCALE: 1/2"=1'-0"



SOAP HOLDER (SH)
SCALE: 1/2"=1'-0"



SHOWER COMPARTMENT CONTROLS (SCC)
SCALE: 1/2"=1'-0"



FOLDING SHOWER SEAT (FSS)
SCALE: 1/2"=1'-0"

SHEET NOTES:

1. THIS SHEET INDICATES TYPICAL AND ACCESSIBLE MOUNTING HEIGHTS AND ADDITIONAL CRITERIA.
2. THE ACCESSIBLE CRITERIA INDICATED ON THIS SHEET ARE IN COMPLIANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN (2010) AND THE ABA ACCESSIBILITY STANDARD FOR DEPARTMENT OF DEFENSE FACILITIES (2008).
3. DETAILS ON THIS SHEET INDICATING ACCESSIBLE REQUIREMENTS ARE MARKED WITH THE "INTERNATIONAL SYMBOL OF ACCESSIBILITY".
4. VERIFY MANUFACTURER'S RECOMMENDED ACCESSIBLE MOUNTING LOCATIONS WITH THOSE LISTED ON THIS SHEET.

"INTERNATIONAL SYMBOL OF ACCESSIBILITY"

STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9392
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.: P0# 20693221
FILE NUMBER:
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1501 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: (803) 799-2012
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

ENLARGED DETAILS AND ADA MOUNTING HEIGHTS & DETAILS

SHEET ID
A-571
SHEET OF

11/6/2020 10:13:46 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-L_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

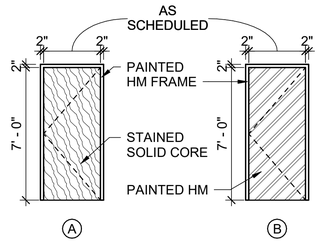
ISSUED FOR BID

Door Schedule

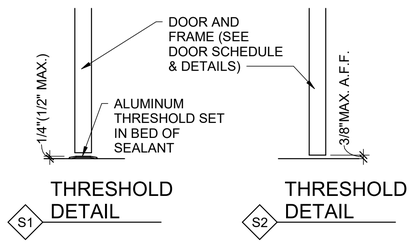
DOOR NUMBER	PANEL SIZE WIDTH	PANEL SIZE HEIGHT	PANEL SIZE THICKNESS	PANEL MATERIAL	PANEL TYPE	FRAME TYPE	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FRAME SILL	COMMENTS
101	3' - 0"	7' - 0"	0' - 1 3/4"	HM	B	B	HM	H3	J3	S2	
102	3' - 0"	7' - 0"	0' - 1 3/4"	HM	B	B	HM	H2	J2	S1	
103	3' - 0"	7' - 0"	0' - 1 3/4"	SC	A	A	HM	H1	J1	S2	
104	3' - 0"	7' - 0"	0' - 1 3/4"	SC	A	A	HM	H1	J1	S2	
104A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	B	B	HM	H2	J2	S1	

LEGEND
HM HOLLOW METAL
SC SOLID CORE WOOD

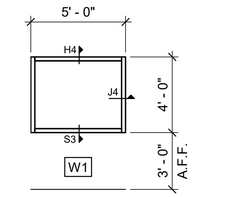
GENERAL DOOR NOTES:
2. FIELD VERIFY ALL ADJACENT WALL THICKNESSES.
3. FIELD VERIFY ALL FRAME OPENING WIDTHS AND HEIGHTS
4. VERIFY KEYING AND MASTER KEYING OF ALL DOORS WITH OWNER.
5. ALL RATED FRAMES TO HAVE "S" LABEL AND SHALL COMPLY WITH UL 1784, NFPA 252 AND UL10C ALT. A (INTUMESCENT POSITIVE PRESSURE).
6. DOOR HARDWAR BY OWNER.



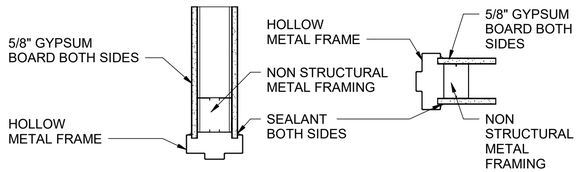
DOOR TYPES
SCALE: 1/4" = 1'-0"

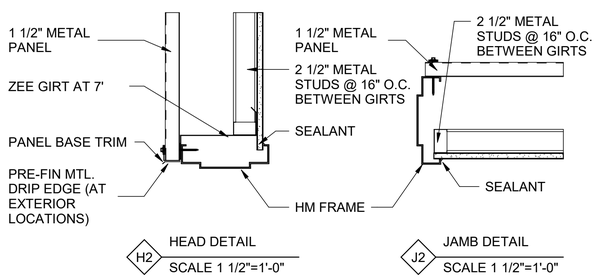


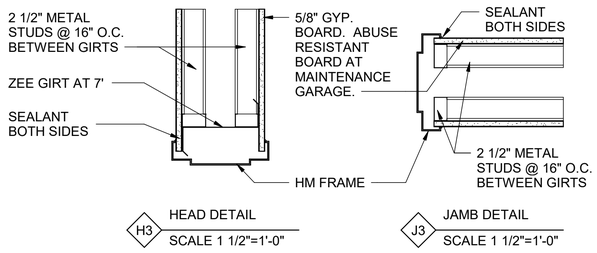
SILL DETAILS
SCALE: 1 1/2" = 1'-0"



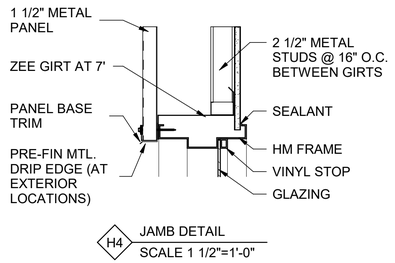
WINDOW TYPES
SCALE: 1/4" = 1'-0"

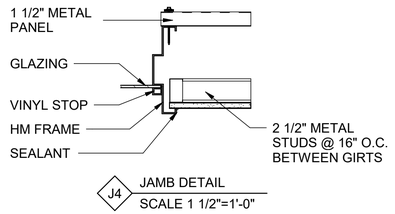


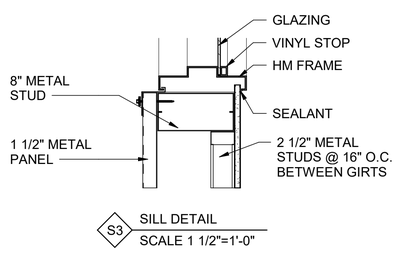




HEAD & JAMB DETAILS
SCALE: 1 1/2" = 1'-0"

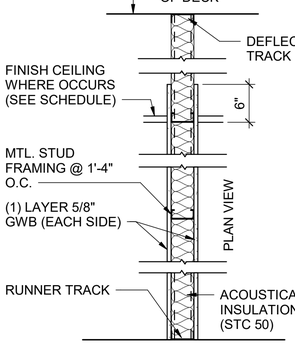


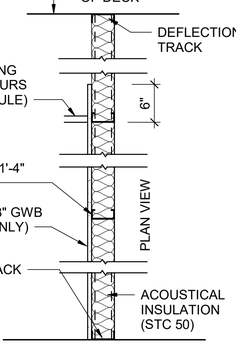


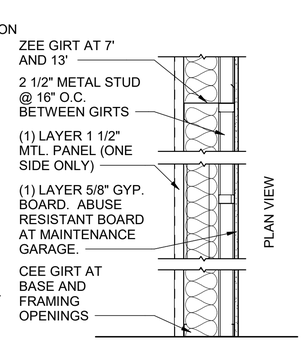


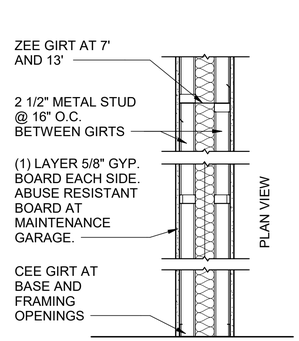
WINDOW DETAILS
SCALE: 1 1/2" = 1'-0"

NOTE: ALTERNATE BRACING METHOD OF METAL STUD KICKERS @ 4' O.C. ALSO ACCEPTABLE

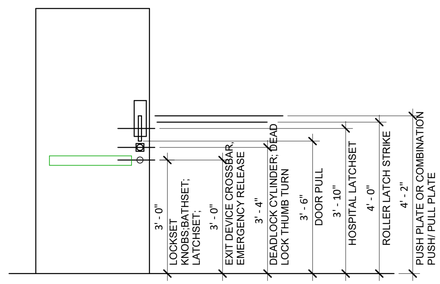








WALL TYPES
SCALE: 1" = 1'-0"



DOOR HARDWARE MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

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

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

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

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

GENERAL NOTES

1. STUD DESIGN CRITERIA: ALL INTERIOR, NON-LOAD BEARING METAL STUDS SHALL BE 25 GUAGE (MIN.) UNLESS OTHERWISE NOTED. PROVIDE 5 PSF MIN APPLIED LATERAL LOAD, L/240 MAX. DEFLECTION
2. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.
3. WHERE A CLEAR OPENING DIMENSION IS INDICATED, THE DIMENSION IS MEASURED FACE-TO-FACE BETWEEN FINISHED SURFACES.
4. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD TO CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
5. PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH.
6. PROVIDE 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED.
7. METAL STUD GAUGE (IF NOTED) AND UL TEST NUMBERS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
8. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. ALL BLOCKING TO BE FIRE RETARDANT TREATED.
9. WHEN INSTALLING GYPSUM BOARD, CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE MOST CURRENT EDITION OF THE GYPSUM ASSOCIATION "GA-600" FIRE RESISTANCE DESIGN MANUAL AND THE MOST CURRENT EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
10. PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE ARE TO HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE. GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
11. GYPSUM BOARD IS TO BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8".
12. THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS IS TO BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE FLOOR STRUCTURE AND IS TO BE SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
13. REFER TO FLOOR PLANS FOR FIRE PROTECTION RATINGS.
14. ALL ELEMENTS OF ACOUSTICALLY RATED PARTITIONS SHALL EXTEND TO ROOF STRUCTURE OR FLOR DECK ABOVE.
15. REFER TO SPECIFICATIONS FOR MINIMUM STUD DESIGN CRITERIA, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD.
16. ALL RATED PARTITIONS SHALL BE LABELED ABOVE CEILING WITH LABELS PER AHJ AS REQUIRED. IBC CHAPTER 7 AT MINIMUM.
17. PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
18. REFER TO INTERIOR FINISH SCHEDULE FOR WALL FINISHES.

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS
POND & COMPANY
COLUMBIA, S.C.
B-98107

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9392
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.:
PO# 2069221
FILE NUMBER:

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
(803) 771-7650
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

DOOR SCHEDULE

SHEET ID
A-601
SHEET OF

11/6/2020 10:13:50 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

FINISH SCHEDULE

SPACE		FLOOR		WALLS				CEILING	
ROOM NO.	ROOM NAME	MAT.	BASE	1	2	3	4	FIN.	REMARKS
101	MAINTENANCE GARAGE	-	-	-	P-1	-	-	-	
102	STORAGE	CONC	RB-1	P-1	P-1	P-1	P-1	-	
103	BATHROOM	CONC	RB-1	P-1	P-1	P-1	P-1	ACT-1	HEAVY DUTY SHOWER ENCLOSURE
104	OFFICE	CONC	RB-1	P-1	P-1	P-1	P-1	ACT-1	

NOTE: WATER RESISTANT GYPSUM BOARD AT SHOWER CEILING

WALL DESIGNATION

FINISH PLAN GENERAL NOTES

1. CONTRACTOR SHALL READ ALL NOTES BEFORE BEGINNING WORK.
2. FURNISH AND INSTALL MATERIALS IN COMPLIANCE WITH MANUFACTURER'S PRINTED SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
3. ANY DISCONTINUED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY. CONTRACTOR TO NOTIFY ARCHITECT OF ANY ITEMS REQUIRING FURTHER CLARIFICATION OF FINISH SELECTION.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING OF MATERIALS. DO NOT SCALE ARCHITECTURAL DRAWINGS. REFER TO DIMENSIONED PLANS
5. CONTRACTOR SHALL PROVIDE TO OWNER ALL MANUFACTURER'S RECOMMENDED MAINTENANCE INSTRUCTIONS ON ALL FINISH MATERIALS. CONTRACTOR TO PROVIDE GOVERNMENT WITH SHOP DRAWINGS FOR APPROVAL FOR ALL NEW MATERIALS INSTALLED
6. INTERIOR CONSTRUCTION REQUIRING FINISH / COLOR SELECTION NOT NOTED WITHIN THE SCHEDULE SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING, WITH SAMPLES OR FINISH / COLORS AVAILABLE, CLEARLY IDENTIFYING ANY THAT MIGHT BE AT A PREMIUM ABOVE THE PRODUCT BID.
7. ALL PRODUCT SPECIFICATIONS ARE GIVEN TO DEFINE DESIGN, COLOR AND QUALITY. SUBSTITUTIONS REQUIRE THE PRIOR APPROVAL OF THE GOVERNMENT. PROPOSED SUBSTITUTIONS SHALL ADHERE TO THE INTENT OF THE QUALITY, DESIGN, COLOR AND PATTERN.
8. ALL FIRE HOSE CABINETS, FIRE EXTINGUISHER CABINETS AND ELECTRICAL PANELS SHALL NOT BE PAINTED AS THEY ARE PRE-FINISHED.

WALL FINISH NOTES

1. MISCELLANEOUS GRILLS AND ACCESSORIES SHALL BE PAINTED TO MATCH ADJACENT WALL FINISHES UNLESS THEY ARE PREFINISHED. CONTRACTOR TO VERIFY PAINT COLOR WITH ARCHITECT.
2. ALL WALLS AND HM DOORS TO RECEIVE EPOXY PAINT

FLOOR FINISH NOTES

1. CONTRACTOR TO FOLLOW MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS ON ALL FLOORING PRODUCTS AND USE THE ADHESIVES, EQUIPMENT / TOOLS REQUIRED / RECOMMENDED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTRACTOR TO FOLLOW MANUFACTURER'S PRINTED INSTRUCTIONS ON PROTECTION OF FLOORING MATERIAL AFTER INSTALLATION. PROTECT FLOORING AGAINST MARS, INDENTATIONS AND OTHER DAMAGE FROM CONSTRUCTION OPERATIONS, PLACEMENT OF EQUIPMENT AND FIXTURES DURING THE REMAINDER OF THE CONSTRUCTION PERIOD. USE PROTECTION METHODS INDICATED OR RECOMMENDED IN WRITING BY THE FLOOR COVERING MANUFACTURER.
3. CONTRACTOR TO PROVIDE AND INSTALL APPROPRIATE TRANSITION STRIPS WHERE DIFFERING MATERIALS ABUT IF NOT NOTED OTHERWISE. PROVIDE ARCHITECT WITH COLOR SAMPLES TO SELECT FROM.
4. FLOOR FINISH CHANGES SHALL OCCUR UNDER THE DOOR CENTERLINE (OR CENTER OF THE WALL OPENING IF NO DOOR) BETWEEN ROOMS.
5. WATER BASED NON-SKID FINISH TO BE APPLIED TO ALL CONCRETE.

DOOR & FRAME NOTES

1. ALL NEW DOOR FRAMES SHALL BE PAINTED TP-1 ON BOTH SIDE OF DOORS (UNLESS NOTED OTHERWISE).

FINISH LEGEND

CEILINGS:

CP-1 CEILING PAINT ON GYP. BOARD, SHERWIN WILLIAMS, HARMONY, #SW 7007 CEILING BRIGHT WHITE, FLAT FINISH

ACT-1 ACOUSTICAL CEILING TILE, ARMSTRONG CEILING,CEMAGUARD/FINE FISSURED 607 PERFORATED, SQUARE LAY-IN, 24X24X5/8" W/ 15/16 GRID

WALLS:

P-1 PAINT, SHERWIN WILLIAMS, EPOXY PAINT, #SW7042 SHOJI WHITE, EGG SHELL FINISH

FLOORS

CONC INTEGRAL COLOR CONCRETE FLOOR. COLOR TO BE SELECTED BY OWNER FROM MANUFACTURER FULL RANGE OF COLOR SELECTIONS

RB-1 RUBBER BASE, JOHNSONITE, COVE BASE, 4". COLOR TO BE SELECTED FROM MANUFACTURE FULL BASIC COLOR

MICS:

DOOR **STAINED SCW DOORS W/ EPOXY PAINTED HMF, DOOR FRAME PAINT TO MATCH ADJACENT WALL COLOR, IN A SEMI GLOSS FINISH**

PL-1 PLASTIC LAMINTE; FORMICA, CITADEL WARP, MATTE FINISH, 5882-58 3MM PVC EDGEBANDING ON ALL EXPOSED EDGES, COLOR TO MATCH LAMINATE

MATERIALS & FINISHES ABBREVIATIONS LIST

ACT	ACOUSTIC CEILING TILE
CTB	CERAMIC TILE BASE
CT	CERAMIC TILE
CG	CORNER GUARD
CONC	CONCRETE
CPT	CARPET
EP	EPOXY
EXP	EXPOSED
GL	GLASS
GR	GROUT
GT	GLASS TILE PANEL
HPC	HIGH PERFORMANCE COATING
PL	PLASTIC LAMINATE
PORC	PORCELAIN TILE
PORCB	PORCELAIN TILE BASE
LN	LINOLEUM
LVT	LUXURY VINYL TILE
ML	METAL LAMINATE
MT	MOSAIC TILE
MTL	METAL
PT	PAINT
QT	QUARRY TILE
RB	RUBBER BASE
RT	RUBBER TILE
SC	SEALED CONCRETE
SDT	STATIC DISSIPATIVE TILE
SS	SOLID SURFACE
SSTL	STAINLESS STEEL
STN	STAIN
ST	STONE
SV	SHEET VINYL
TZ	TERRAZZO
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
WC	WALL COVERING
WD	WOOD
WP	WALL PROTECTION

REMARKS

R1.

STATE OF SOUTH CAROLINA
POND & COMPANY
COLUMBIA, S.C.
B-98107
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9382
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

DESIGNED BY: LEM
DRAWN BY: WLM
CHECKED BY: LSW
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.: PO# 2069221
FILE NUNBER:
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: (803) 790-4202
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

FINISHES & DETAILS

SHEET ID

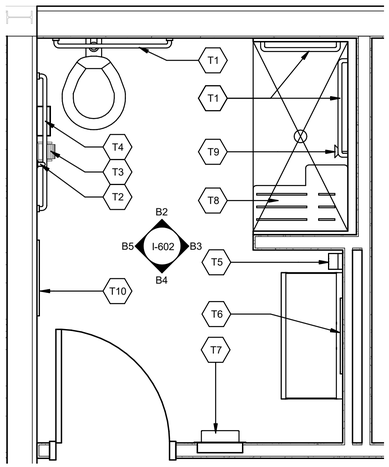
I-601

SHEET OF

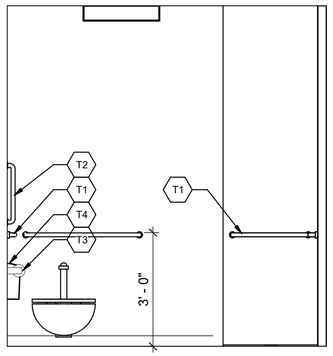
11/6/2020 10:13:53 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

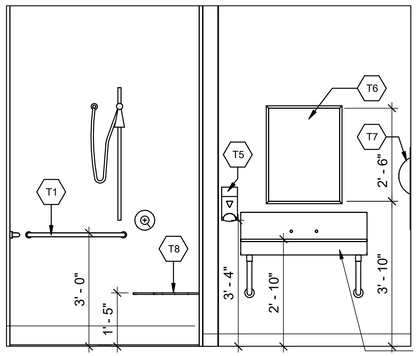
ISSUED FOR BID



B1 RESTROOM ACCESSORIES PLAN
SCALE: 1/2" = 1'-0"

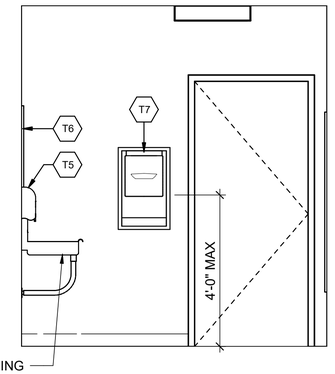


B2 RESTROOM ELEVATION - 1
SCALE: 1/2" = 1'-0"

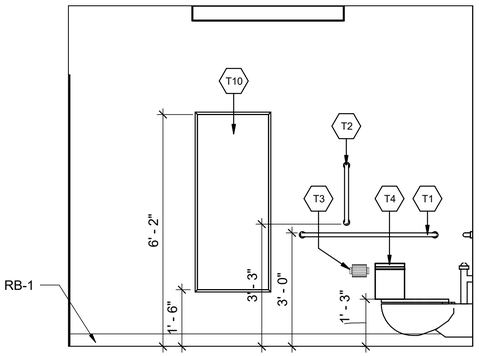


B3 RESTROOM ELEVATION - 2
SCALE: 1/2" = 1'-0"

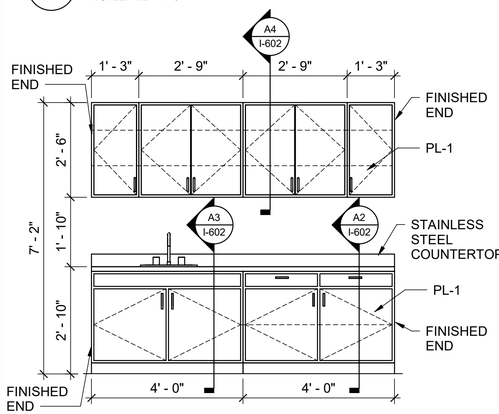
SEE PLUMBING



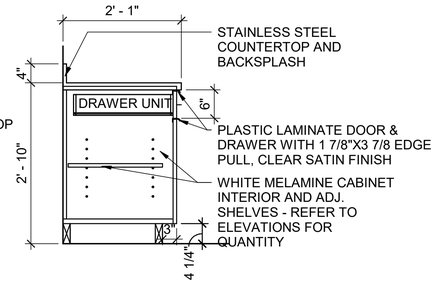
B4 RESTROOM ELEVATION - 3
SCALE: 1/2" = 1'-0"



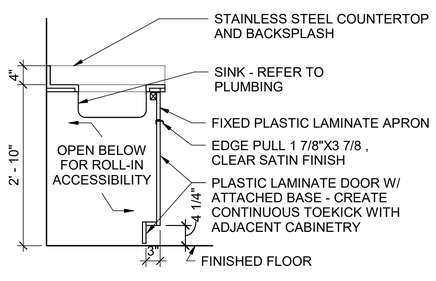
B5 RESTROOM ELEVATION - 4
SCALE: 1/2" = 1'-0"



A1 CASEWORK ELEVATION
SCALE: 1/2" = 1'-0"

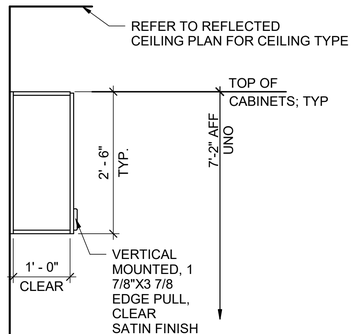


A2 TYPICAL BASE CABINET
SCALE: 3/4" = 1'-0"



NOTE: PROVIDE ADA COMPLIANT UNDER-SINK PROTECTORES

A3 ADA SINK BASE CABINET
SCALE: 3/4" = 1'-0"



A4 WALL CABINET
SCALE: 3/4" = 1'-0"

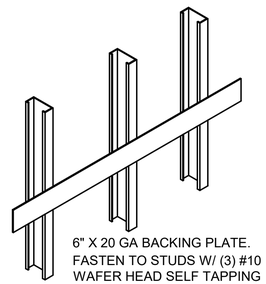
1 0 1 2 3
SCALE: 3/4" = 1'-0"

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

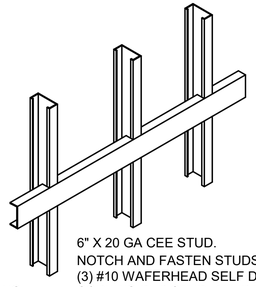
KEYNOTES:

(KEYNOTE NUMBERS ARE UNIFORM ACROSS ALL SHEETS AND SOME MAY NOT BE REQUIRED ON THIS SHEET)

KEY #	KEYNOTE DESCRIPTION
T1	HORIZONTAL GRAB BAR (GB-1)(GB-2)
T2	VERTICAL GRAB BAR (GB-3)
T3	TOILET PAPER DISPENSER (TTD)
T4	SANITARY NAPKIN DISPOSAL (SND)
T5	SOAP DISPENSER (SD)
T6	LAVATORY MIRROR (MG-2)
T7	RECESSED ELECTRIC HAND DRYER
T8	FOLDING SHOWER SEAT (FSS)
T9	SHOWER COMPARTMENT CONTROLS (SCC)
T10	FULL-LENGTH MIRROR (MG-1)



6" X 20 GA BACKING PLATE. FASTEN TO STUDS W/ (3) #10 WAFER HEAD SELF TAPPING SCREWS PER STUD. ALL BACKING TO SPAN MINIMUM OF 3 STUDS. BACKING PLATE TO BE Fy=50ksi STEEL.



6" X 20 GA CEE STUD. NOTCH AND FASTEN STUDS W/ (3) #10 WAFERHEAD SELF DRILLING SCREWS PER STUD. ALL BACKING TO SPAN A MINIMUM OF (3) STUDS. BACKING PLATES TO BE Fy= 50ksi STEEL

NOTE: ALL TOILET ACCESSORIES TO BE ANCHORED TO BACKING PLATES.

D4 BLOCKING DETAIL
SCALE: 3/4" = 1'-0"

STATE OF SOUTH CAROLINA
POND & COMPANY
COLUMBIA, S.C.
B-98107
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
LORRAINE SANTANA WHITE
COLUMBIA, SC
9382
REGISTERED ARCHITECT

MARK	DESCRIPTION	DATE

ISSUE DATE: NOVEMBER 06, 2020
SOLICITATION NO.:
CONTRACT NO.:
PO# 2069221
FILE NUMBER:

DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
SUBMITTED BY:
SIZE: ANSI D
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone: (803) 799-1000
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

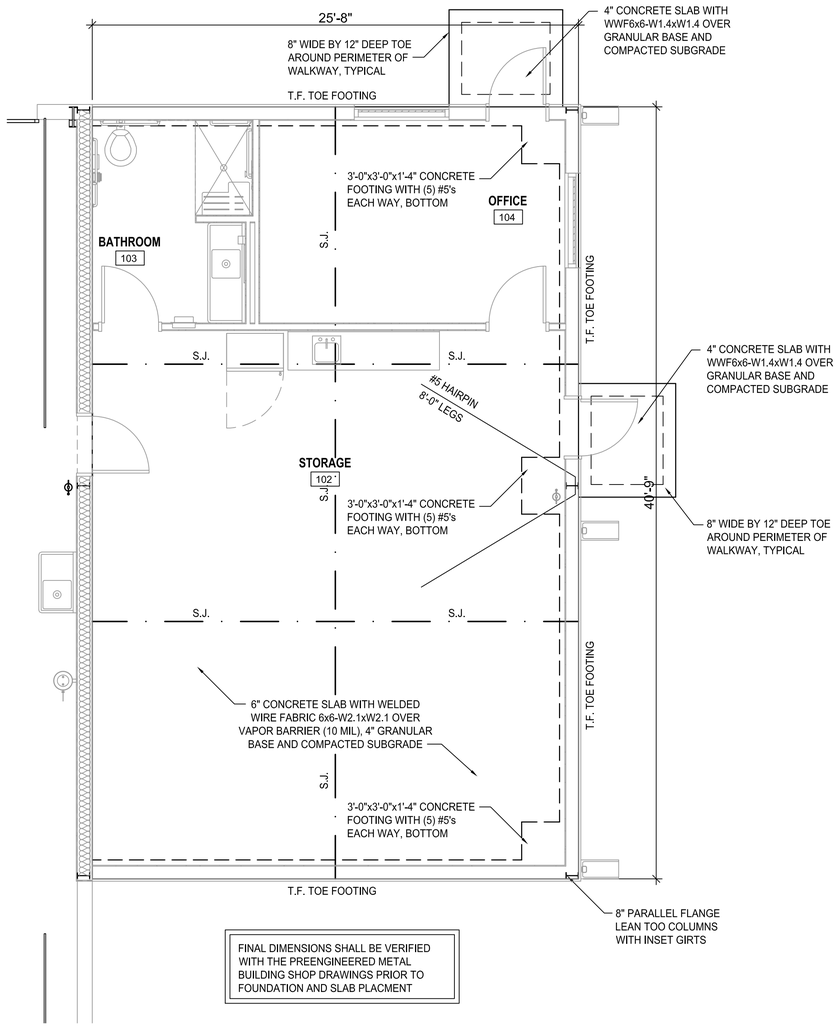
MILLWORK DETAILS AND FIXTURES

SHEET ID
I-602
SHEET OF

11/6/2020 10:13:56 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

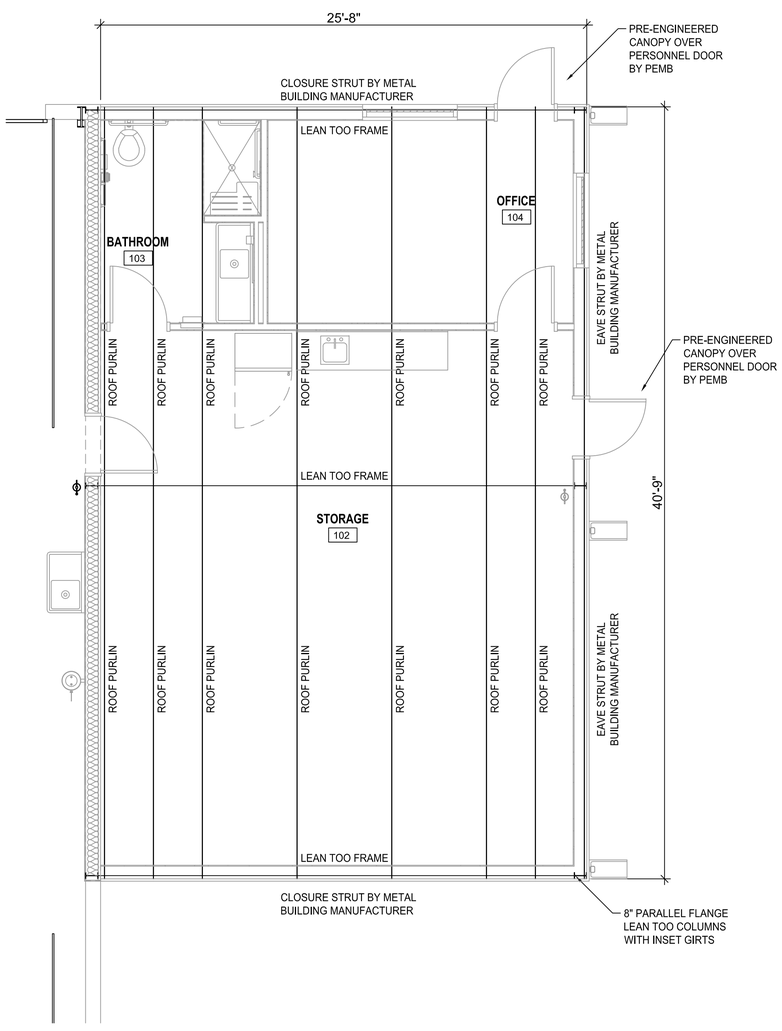
ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID



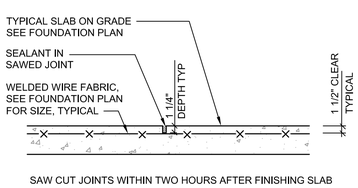
A1 FOUNDATION PLAN

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



A2 ROOF FRAMING PLAN

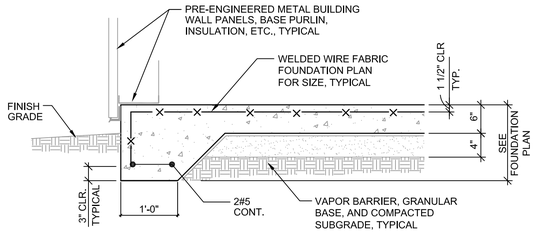
SCALE: 1/4" = 1'-0"



SAW CUT JOINTS WITHIN TWO HOURS AFTER FINISHING SLAB

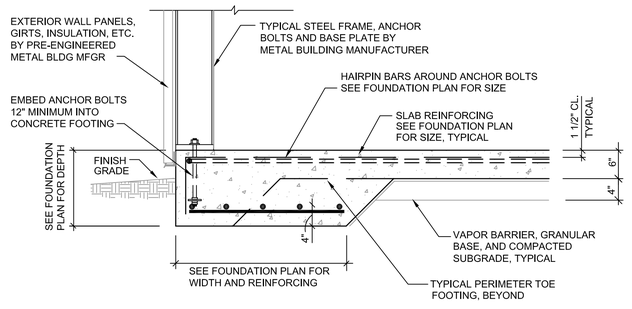
TYPICAL SAW JOINT (S.J.)

SCALE: 3/4"=1'-0"



TYPICAL PERIMETER TOE FOOTING (T.F.)

SCALE: 3/4"=1'-0"



TYPICAL END WALL COLUMN FOOTING

SCALE: 3/4"= 1'-0"

GENERAL NOTES:

1. LOADS:
   A. LIVE LOADS:
      HEAVY STORAGE..... 250 PSF, 3000 LB CONCENTRATED
   B. DEAD LOADS: ACTUAL WEIGHTS OF MATERIALS, EQUIPMENT, AND ETC.
   C. ROOF, SNOW, WIND, AND SEISMIC LOADS:
      REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS.
      FOUNDATION DESIGN ONLY PROVIDED.
2. BUILDING CODE - INTERNATIONAL BUILDING CODE 2018
3. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
   NORMAL WEIGHT (150 PCF) 3000 PSI FOR ALL CONCRETE.
   LIMIT FLY ASH CONTENT TO 25% MAXIMUM BY WEIGHT.
4. ALL REINFORCING BARS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
5. FOOTINGS ARE LOCATED AT COLUMN LINES OR CENTER OF WALLS UNLESS SHOWN OTHERWISE ON PLANS.
6. CONCRETE FORMWORK:
   A. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI STANDARD 347 RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.
   B. ALL PERMANENTLY VISIBLE EDGES OF CONCRETE SHALL HAVE A 3/4" CONTINUOUS CHAMFER. THIS INCLUDES ALL SLABS, BEAMS, COLUMNS, AND WALLS.
7. ALL CONCRETE WALLS, FOOTINGS, ETC. SHALL HAVE CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT, UNLESS NOTED OTHERWISE.
8. PROVIDE AND INSTALL ALL PLATES, ANGLES, REINFORCING, ETC., EMBEDDED IN CAST-IN-PLACE CONCRETE.
9. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS BEFORE ANY FABRICATION HAS STARTED.
10. PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR SAFETY / STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE.
11. ALL CONCRETE SLABS ON GRADE TO BE 6" THICK REINFORCED WITH WELDED WIRE FABRIC 6x6-W2.1xW2.1, UNLESS NOTED OTHERWISE.
12. ALL REINFORCING REBARS SHALL HAVE CLASS "A" TENSION SPLICES UNLESS NOTED OR SPECIFIED OTHERWISE.
13. DRAWINGS INDICATE GENERAL ARRANGEMENT AND DIMENSIONS AND ARE, GENERALLY, DRAWN TO SCALE. HOWEVER, SCALE DIMENSIONS SHALL NOT BE USED. OBTAIN DIMENSIONS FROM ENGINEER, WHEN NOT GIVEN IN FIGURES, REFER TO THE ENGINEER IF ANY INCONSISTENCIES ARE FOUND.
14. PRE-ENGINEERED METAL BUILDING:
   A. THE BUILDING IS A PRE-ENGINEERED SINGLE STORY, SINGLE SPAN, RIGID FRAME METAL TYPE. STANDARD COMPONENTS MAY BE USED, PROVIDED STRUCTURE CONFORMS TO DESIGN AND CODE REQUIREMENTS.
   B. BUILDING DESIGNER SHALL BE ENGINEER OF RECORD FOR THE METAL BUILDING PACKAGE.
15. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY CONTRACTOR IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND IT'S DESIGN ENGINEER, LICENSED IN THE PROJECT STATE.

REQUIRED SPECIAL INSPECTIONS

033000 REINFORCED CONCRETE

1. CONTINUOUS INSPECTION IS REQUIRED:
   A. SAMPLING FRESH CONCRETE & PERFORMING SLUMP, AIR CONTENT AND DETERMINING TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS SUCH AS, CONCRETE CYLINDERS, BEAMS, CORES AND OR PANELS.
   B. PRIOR TO AND DURING THE PLACEMENT OF BOLTS INSTALLED IN CONCRETE WHEN APPLICABLE PER CODE.
   C. PRIOR TO AND DURING THE INSTALLATION OF ADHESIVE AND OR GROUTED ANCHORS.
2. PERIODIC INSPECTION IS REQUIRED:
   A. AT THE START AND DURING EACH PHASE OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS AS REQUIRED AND PROCEDURES WITH APPLICABLE CODES, PLANS AND SPECIFICATIONS.
   B. REINFORCEMENT PRIOR TO CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE PROJECT SITE.
   C. AT FREQUENCIES NECESSARY TO CLEARLY CONFIRM PLACEMENT OF THE TIES, STIRRUPS, CONNECTIONS, AND ADDITIONAL SPECIFIED REINFORCEMENT (i.e. OPENINGS, BEAMS, CORNERS, COLUMNS, AND OR PIERS) BEFORE THEY ARE CONCEALED.
   D. FOR VERIFICATION OF DELIVERED MIX DESIGN BEFORE ANY CONCRETE IS PLACED.

SOIL NOTES:

1. FOOTINGS DESIGNED FOR AN ASSUMED SOIL BEARING VALUE OF 1500 PSF. GEOTECHNICAL ENGINEER/TESTING LABORATORY SHALL VERIFY BEARING VALUE PRIOR TO FOOTING PLACEMENT.
2. BEFORE ANY CONSTRUCTION, THE ENTIRE SITE AREA SHALL BE STRIPPED OF ANY ROOT SYSTEMS, SURFACE VEGETATION, ORGANIC SURFACE SOILS, EXISTING CONCRETE SLABS, FOOTINGS, BURIED FUEL TANKS, UNDERGROUND UTILITIES, AND ANY OTHER UNSUITABLE NEAR SURFACE MATERIALS. ALSO, ALL EXISTING MATERIAL BENEATH THE BUILDING AREAS SHALL BE COMPLETELY REMOVED TO A DEPTH DETERMINED BY THE TESTING LABORATORY NECESSARY TO OBTAIN THE REQUIRED BEARING VALUE. THE UNDERCUTTING SHALL EXTEND AT LEAST FIVE FEET OUTSIDE THE BUILDING AREA. AFTER STRIPPING AND UNDERCUTTING, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER TO CONFIRM THAT ALL UNSUITABLE MATERIALS HAVE BEEN REMOVED. THE EXPOSED SUBGRADE SHALL THEN BE DENSIFIED TO 95% OF STANDARD PROCTOR DENSITY IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, WITH APPROVED EQUIPMENT. DEPENDING UPON SOIL MOISTURE AT TIME OF GRADING, MOISTURE SHALL BE ADDED OR THE SOIL SHALL BE AERATED AND DRIED TO WITHIN 3% OF OPTIMUM MOISTURE. IF WET CONDITIONS ARE ENCOUNTERED THE SUBGRADE SOILS SHALL BE SUFFICIENTLY AERATED TO PREVENT PUMPING UNDER HEAVY CONSTRUCTION EQUIPMENT.
3. ONCE THE EXPOSED SUBGRADE AREAS HAVE BEEN SATISFACTORILY STABILIZED/DENSIFIED, THE PLACED FILL SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING EIGHT (8") INCHES IN LOOSE THICKNESS, AN IN PLACE DRY DENSITY OF APPROXIMATELY NINETY FIVE PERCENT (95%) OF THE MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698) SHALL BE OBTAINED IN EACH LIFT. ALL FILL MATERIAL SHALL BE TESTED BY LABORATORY PERSONNEL TO VERIFY THEIR SUITABILITY FOR USE AS A STRUCTURAL FILL.
4. IMMEDIATELY PRIOR TO CONSTRUCTING THE FLOOR SLAB OR PAVEMENT BASE COURSE, THE SUBGRADE SHALL BE RECOMPACTED TO REPAIR ANY SUBGRADE SOILS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION. AFTER COMPACTION OF THE SUBGRADE, FIELD DENSITY TESTING AND PROOFROLLING SHALL BE PERFORMED TO EVALUATE THE CONDITIONS OF THE SUBGRADE BEFORE PLACING THE SLAB OR PAVING BASE COURSE.

2 0 2 4 — SCALE: 1/2" = 1'-0"

4 0 4 8 — SCALE: 1/4" = 1'-0"

Mabry Engineering Associates, Inc.
Structural Engineers
840 Shull Street
Suite 100
West Columbia, SC 29169
(803) 926-0000
FAX (803) 926-7600
MEA# 20-1926

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 17457 — ROBERT A. STEVENS

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — MABRY ENGINEERING ASSOCIATES, INC. — No. C03489

MARK	DESCRIPTION	DATE

DESIGNED BY: AAS
DRAWN BY: AAS
CHECKED BY: AAS
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: 11-06-2020
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1301 Gervais Street, Suite 1300
Columbia, SC 29201
Phone (803) 790-4202
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

FOUNDATION, ROOF FRAMING PLANS, NOTES, AND DETAILS

SHEET ID
S-101
SHEET OF

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

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PLUMBING SPECIFICATIONS

1.01 SCOPE:

These specifications together with the accompanying plumbing drawings are intended to provide complete plumbing installation for the renovated space and shall include all labor, equipment and materials.

1.02 GENERAL:

All work shall be performed by skilled and capable workmen under competent supervision, employing latest and best practices of the trade. Work shall be installed according to the adopted local plumbing code, and shall meet with plumbing inspector's approval in every respect. Local code shall apply where such code exceeds requirements of this specification. In absence of code or authorities, install all work according to the 2018 International Plumbing Code.

Plumbing contractor shall obtain all permits and licenses, at his own expense, and shall pay all service charges required for prosecution of this work.

Plumbing drawings are diagrammatic only, and do not show all offsets, fittings, etc. Coordinate work with other trades, furnishing and installing all fittings, offsets, etc., required at no additional cost to owner.

2.01 MATERIALS:

- Soil & waste piping: Schedule 40 PVC with solvent welded fittings.
- Water piping: Schedule 40 PVC on CW & CPVC on HW.
- Natural gas piping: Black steel pipe with screwed fittings.

2.02 PIPE HANGERS AND SUPPORTS:

Piping shall be installed without undue stress or strain on joints and equipment. Hangers shall be securely anchored to building structure. Pipe hangers shall be installed around the insulation where pipes are insulated. Install hanger with sheet metal saddles to protect the pipe insulation to keep the insulation from crushing.

Makeshift, field devised methods of plumbing pipe support, such as with the use of scrap framing materials, are not allowed. Support and positioning of piping shall be by means of engineered methods that comply with IAPMO PS 42-96. These shall be Hubbard Enterprises/Holdrite support systems or engineer-approved equivalent.

2.03 FIXTURES:

All fixtures shall be new, first quality, and free from defects. Fixtures shall be furnished complete with supply pipes, stop valves, traps, faucets, escutcheons, hangers, supports, etc. All exposed piping shall be chrome plated.

Where fixtures are installed in contact with walls or floors, seal the spaces at the outer edges of fixtures in contact with walls or floors using a non-hardening bathtub caulk, "Silastic" by Dow-Corning, or approved equal.

All wall mounted fixtures shall be either mounted on heavy duty concealed carriers, heavy duty wall mounting brackets with thru wall bolts and back plates, or heavy duty brackets mounted directly to concrete-filled block work with structural fasteners of the "red-head" type fastened into the concrete fill. Standard light-weight pressed steel mounting brackets with screws and ordinary shields into the surface of the block will not be acceptable.

3.01 CLEANING, PAINTING, AND ADJUSTING:

At the completion of the work, all parts of the installation shall be thoroughly cleaned. All equipment, pipe, valves, and fittings shall be cleaned of all grease, metal cuttings, and sludge which may have accumulated by operation of the system for testing. Any stoppage, discoloration, or other damage to parts of the building, its finish or furnishings, due to the contractor's failure to properly clean the piping system, shall be repaired by the plumbing contractor without cost to the owner. All flush valves and other parts of the system shall be adjusted for quiet and proper operation.

Fixtures shall be tested for soundness, stability of support, and satisfactory operation of all component parts.

3.02 INSTRUCTION BOOKLETS:

Contractor shall furnish the owner two complete sets of instruction booklets regarding the operation and maintenance of all plumbing items of equipment installed under this contract. Booklets shall include a complete parts list and technical data, including preventative maintenance instructions for all items of equipment.

Each set of instruction booklets shall be neatly bound into a single unit and presented to the owner prior to final acceptance of the job.

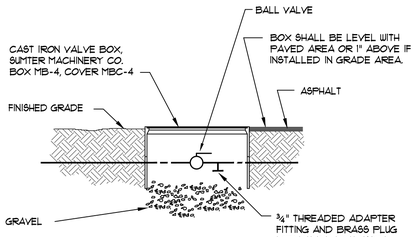
3.03 GUARANTEES AND WARRANTIES:

Contractor shall service and maintain all equipment installed by him under this contract for a like period of 12 months from the date the certificate of substantial completion is issued, performing all required seasonal maintenance.

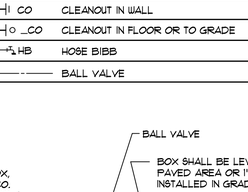
Contractor shall guarantee mechanical systems as installed by him to operate quietly, safely, and efficiently.

PLUMBING SYMBOLS

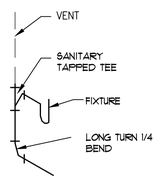
———	SOIL OR WASTE PIPING
– – – – – –	VENT PIPING
——·——·——	COLD WATER PIPING
——··——	HOT WATER PIPING
—GAS—GAS—GAS—	NATURAL GAS PIPING
VTR	VENT THRU ROOF
A.A.V.	AIR ADMITTANCE VALVE
——|| CO	CLEANOUT IN WALL
——o CO	CLEANOUT IN FLOOR OR TO GRADE
——HB	HOSE BIBB
——▷◁——	BALL VALVE



CUT-OFF VALVE BOX DETAIL



WATER HAMMER ARRESTOR DETAIL



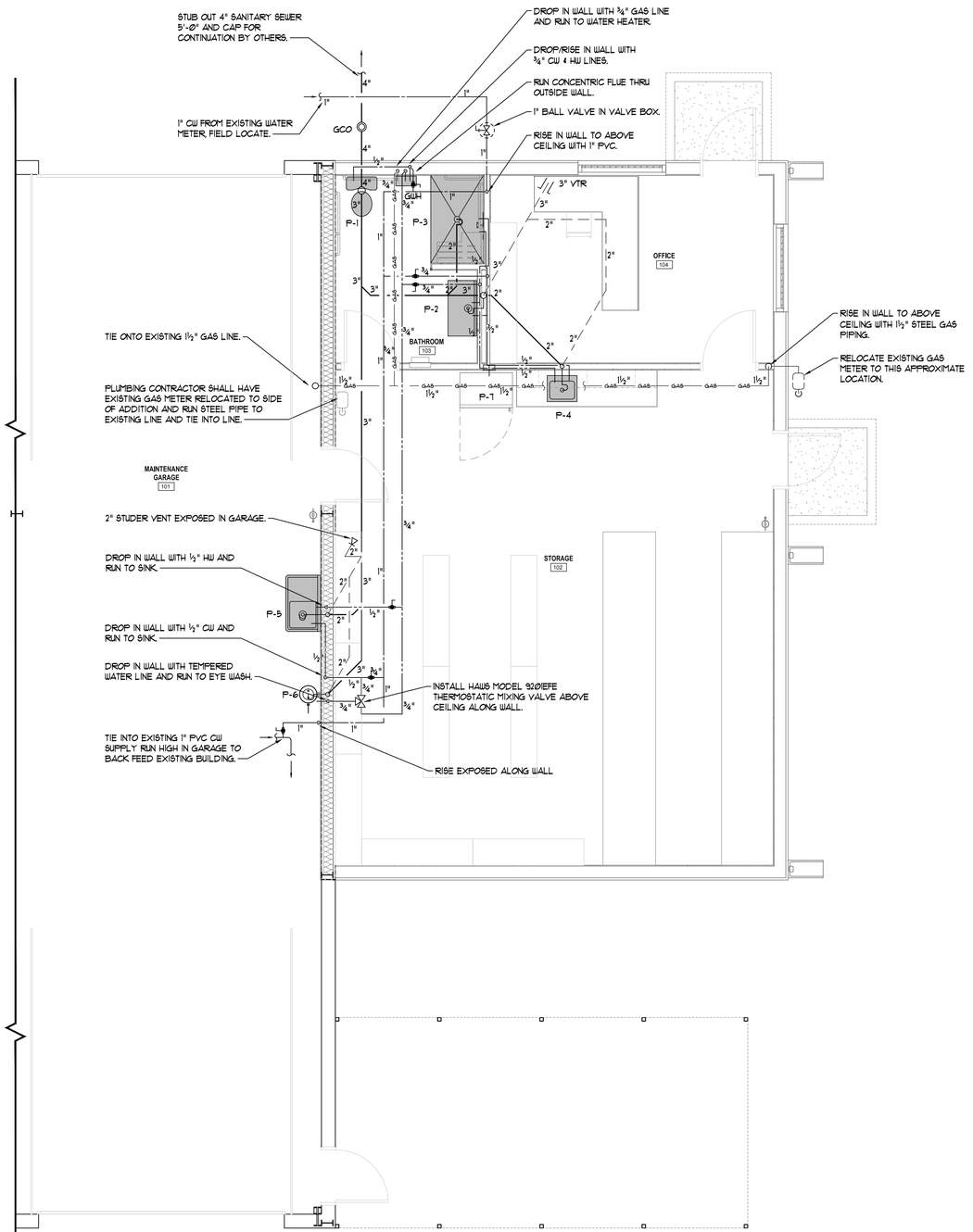
ROUGHING DIAGRAM

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	CONNECTIONS			SPECIFICATIONS
		CW	HW	WASTE	
P-1	TANK TYPE WATER CLOSET - ADA	½"	—	4"	KOHLER MODEL K-25077-SST-0 "KINGSTON", ADA, ELONGATED, 1.6 GPF, TANK TYPE, WITH BOLT CAPS. OLSONITE "9555 OPEN FRONT SEAT. TRIP LEVER SHALL BE ON WIDE SIDE.
P-2	COUNTERTOP LAVATORY - ADA	½"	½"	1¼"	ADVANCED TABCO MODEL 13-18-1-ADA-FL S.S. WALL MOUNTED SINK WITH FAUCET, EBC 9984 HEAVY CAST BRASS STRAINERS, EBC TA Z 190 P-TRAP, LA26K HEAVY DUTY STOPS AND SUPPLIES.
P-3	SHOWER UNIT	½"	½"	1½"	FREEDOM ADA ROLL-IN SHOWER MODEL AFF06233BFF815R, WHITE. FURNISH WITH GRAB BARS, FOLDING SHOWER BENCH, CURTAIN ROD, COLLAPSIBLE WATER RETAINER, DRAIN, SHOWER CURTAIN SLIDE BAR WITH HAND HELD SHOWER AND VALVE.
P-4	BREAK ROOM SINK	½"	½"	1½"	ELKAY MODEL LR-1919 S.S. SINK WITH SINGLE HOLE DRILLING, K-596-CP SINGLE LEVER GOOSENECK FAUCET WITH PULL OUT SPRAY. TWO EBC 9984 HEAVY CAST BRASS STRAINERS, EBC TA Z 190 P-TRAP, LA26K HEAVY DUTY STOPS AND SUPPLIES.
P-5	GARAGE SINK	½"	½"	1½"	ADVANCED TABCO MODEL FS-1-2424-24L S.S. SINK, CHROME PLATED BRASS FAUCET, TWIST WASTE VALVE. TRAP, & SUPPLIES.
P-6	EYE WASH	½" TEMPERED		1½"	FURNISH A COMPLETE USING HAWS MODEL 7360BTWC, BARRIER- FREE, WALL MOUNTED EYE/FACE WASH WITH EYE/FACE WASH HEAD, WITH TAILPIECE, TRAP, AND 9201EFE THERMOSTATIC MIXING VALVE.
P-7	ICE MAKER BOX	½"	—	—	SIOUX CHIEF 696 SERIES OX BOX WITH HAMMER ARRESTOR

GAS-FIRED TANKLESS WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.	TYPE	GAS INPUT (M.B.H.)		G.P.M.	THERMAL EFFICIENCY	REMARKS
				MINIMUM	MAXIMUM			
GWH	RINNAI	V65IN	NATURAL	Ø.3	150	Ø.2 - 6.5	95%	FURNISH PIPE CHASE AND ISOLATION VALVES. TANKLESS WATER HEATER TO HAVE CONCENTRIC DIFFUSER.



P1 PLUMBING PLAN

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

4 0 4 8

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

FELKEL & HASTINGS
Mechanical Engineers
2725 Cypress Street
Columbia, SC 29205
Comm. No.: 20-20a Date: 11-2-20

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 12548 LOUIS C. BUSTO

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FELKEL & HASTINGS, CONSULTING MECHANICAL ENGINEERS No. C00429

MARK	DESCRIPTION	DATE

ISSUE DATE: NOVEMBER 6, 2020
SOLICITATION NO.:
CONTRACT NO.:
P.O.# 2069221
FILE NUNBER:

DESIGNED BY: PRF
DRAWN BY: PRF
CHECKED BY: PRF
SUBMITTED BY:
SIZE: ANSI D
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

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NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
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PLUMBING PLAN

SHEET ID
P-101
SHEET OF

ORIGINAL SHEET SIZE: 22" X 34"

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OUTLINE SPECIFICATIONS

1. ALL WORK SHALL COMPLY WITH THE 2009 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE, THE 2018 EDITIONS OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, INTERNATIONAL FUEL GAS CODE AND OTHER REQUIREMENTS OF NFPA, EPA AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THIS WORK.

2. THE CONTRACTOR SHALL PAY ALL FEES AND SECURE ALL LICENSES AND PERMITS REQUIRED FOR THE WORK INDICATED ON THE MECHANICAL DRAWINGS.

3. PROVIDE A 4" CONCRETE PAD BELOW ALL EQUIPMENT MOUNTED ON GRADE. ALL ROOFTOP EQUIPMENT SHALL BE MOUNTED ON CURBS OR RAILS AS REQUIRED.

4. ALL ROTATING PIECES OF MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS SUITABLE FOR THE SPECIFIC APPLICATION. ISOLATORS MAY BE EITHER INTERNAL OR EXTERNAL AND EITHER SUPPLIED BY THE CONTRACTOR OR EQUIPMENT MANUFACTURER.

5. ALL MECHANICAL AND PLUMBING EQUIPMENT, PIPE AND DUCTWORK SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED FOR THE SPECIFIC APPLICATION TO MEET THE SEISMIC REQUIREMENTS AS DEFINED IN THE CURRENTLY ADOPTED ISSUE OF THE INTERNATIONAL BUILDING CODE. SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED ENGINEER, ARE REQUIRED FOR ALL SEISMIC RESTRAINT CALCULATIONS. All EQUIPMENT, DUCT, PIPING, ETC. SHALL HAVE AN Ip OF 1.0 WITH THE FOLLOW EXCEPTIONS, WHICH HAVE AN Ip OF 1.5: LIFE SAFETY EQUIPMENT.

6. ALL SUPPLY AIR, RETURN AIR, EXHAUST AIR AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED SHEET METAL PER SMACNA STANDARDS AND CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE FOR LOW PRESSURE DUCT SYSTEMS. ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS SHALL BE SECURELY FASTENED AND SEALED WITH GASKETS, MASTICS OR MASTIC-PLUS-EMBEDDED-FABRIC TAPE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE TURNING VANES IN ALL DEGREE ELBOWS.

7. ALL SUPPLY AND RETURN AIR DUCTS CONCEALED ABOVE CEILINGS SHALL BE INSULATED WITH 2.2" THICK, 3/4 LB./CU.FT. DENSITY FIBERGLASS DUCT WRAP (MINIMUM INSTALLED R-VALUE OF 6.0).
ALL SUPPLY AND RETURN AIR DUCTS EXPOSED TO VIEW SHALL BE INTERNALLY LINED WITH 1.5" THICK SEMI-RIGID 2 LB./CU.FT. DENSITY FIBERGLASS DUCT LINER (MINIMUM INSTALLED R-VALUE OF 6.0).
INSULATE THE BACK PAN (TOP SIDE) OF ALL SUPPLY DIFFUSERS AND SIDEWALL REGISTERS USING 2.2" THICK, 3/4 LB./CU.FT. DENSITY FIBERGLASS DUCT WRAP INSULATION.

8. APPLY WRAP INSULATION TO DUCTWORK WITH 4" STRIPS OF INSULATION BONDING ADHESIVE AT 8" ON CENTERS. ADJACENT SECTIONS OF DUCT WRAP INSULATION SHALL BE TIGHTLY BUTTED WITH THE 2" STAPLING AND TAPING FLAP OVERLAPPING. SEAMS SHALL BE STAPLED ON 6" CENTERS WITH 1/2" STEEL OUTWARD CLINCHING STAPLES. ALL SEAMS AND JOINTS AS WELL AS ANY TEARS, PENETRATIONS OR PUNCTURES SHALL BE SEALED WITH GLASS FABRIC TAPE AND FIRE RESISTANT VAPOR BARRIER MASTIC. DUCT TAPES SHALL NOT BE USED TO SEAL JOINTS AND SEAMS. WHERE RECTANGULAR DUCTS ARE 24" IN WIDTH OR GREATER, DUCT WRAP INSULATION SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS SUCH AS PINS AND SPEED CLIP WASHERS, SPACED ON 18" CENTERS TO PREVENT SAGGING OF INSULATION.

9. ALL DUCT LINER INSULATION SHALL BE COATED WITH AN EPA REGISTERED ANTI-MICROBIAL AGENT TO RESIST GROWTH OF FUNGUS OR BACTERIA AND WITH THE AIR STREAM SIDE COATED WITH A BLACK FIRE-RESISTANT COATING TO PREVENT EROSION OF THE DUCT LINER FIBERS. APPLY DUCT LINER TO INTERIOR OF SHEET METAL DUCTWORK USING 100% COVERAGE OF VAPOR BARRIER ADHESIVE AND USING MECHANICAL FASTENERS AS RECOMMENDED BY THE INSULATION MANUFACTURER. DUCTWORK SHALL BE OVERSIZED TO ACCOMMODATE DUCT LINER INSULATION. LINER SHALL BE INTERRUPTED AT THE AREA OF OPERATION OF A FIRE DAMPER AND 6" UPSTREAM AND 6" DOWNSTREAM OF ELECTRIC- RESISTANCE AND FUEL BURNING HEATERS IN THE DUCT SYSTEM. METAL "NOSINGS" OR SLEEVES SHALL BE INSTALLED OVER EXPOSED DUCT LINER EDGES THAT FACE OPPOSITE THE DIRECTION OF AIRFLOW AS RECOMMENDED BY THE INSULATION MANUFACTURER. PROVIDE DUCT WRAP TYPE INSULATION AT ALL INTERRUPTIONS IN THE DUCT LINER INSTALLATION.

10. FLEXIBLE DUCT CONNECTORS SHALL BE PROVIDED AT ALL EQUIPMENT DUCT CONNECTIONS. FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS ARE LIMITED TO 6 FT. MAXIMUM LENGTH.

11. BALANCING DAMPERS SHALL BE PROVIDED IN ALL RUNOUTS TO AIR DISTRIBUTION DEVICES AS WELL AS IN THE OUTSIDE AIR AND RETURN AIR DUCT AT EACH AIR HANDLER.

12. REFRIGERANT PIPING SHALL BE TYPE "K" HARD DRAWN COPPER. LEAK TEST, DEHYDRATE, AND EVACUATE EACH REFRIGERANT PIPING SYSTEM AS SPECIFICALLY RECOMMENDED BY THE EQUIPMENT MANUFACTURER. REPAIR ALL LEAKS AND REPLACE ALL DEFECTIVE PIPING MATERIALS FOUND DURING TESTS. FULLY CHARGE EACH REFRIGERANT PIPING SYSTEM WITH REFRIGERANT AS REQUIRED AND GUARANTEE FULL CHARGES OF REFRIGERANT FOR A PERIOD OF ONE YEAR. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS.

13. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC.

14. THE PIPE INSULATION THICKNESS LISTED BELOW IS BASED ON A THERMAL CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HR-FT2-F. ADJUST THICKNESS PER CODE FORMULA WHEN INSULATION TO BE USED HAS A HIGHER THERMAL CONDUCTIVITY VALUE.
REFRIGERANT VAPOR AND SUCTION PIPING WITHIN THE BUILDING SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS.
REFRIGERANT VAPOR AND SUCTION PIPING CONCEALED WITHIN THE WALLS OR RUN IN PVC PIPING SHALL BE INSULATED WITH 1" THICK ARMAFLEX.
REFRIGERANT VAPOR AND SUCTION PIPING EXTERIOR TO THE BUILDING SHALL BE INSULATED WITH 1-1/2" THICK "FOAMGLASS" AND WRAPPED WITH AN ALUMINUM JACKET.
ABOVE GRADE CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK ARMAFLEX.

15. A 7-DAY PROGRAMMABLE THERMOSTAT WITH 2 HOUR MANUAL OVERRIDE CAPABILITIES AND 10 HOUR MINIMUM BACKUP SHALL BE PROVIDED FOR THE SPLIT SYSTEM HEAT PUMP. ALL EXHAUST FANS SHALL BE CONTROLLED BY AS INDICATED IN THE VENTILATION EQUIPMENT SCHEDULE. THE CONTROLS CONTRACTOR SHALL VERIFY THE OPERATION OF THE ANTI-SHORT CYCLE TIMERS AND LOW AMBIENT CONTROLS AND PROVIDE A LETTER TO THE ARCHITECT STATING THAT THE CONTROLS HAVE BEEN COMPLETELY CALIBRATED AND TESTED FOR PROPER OPERATION.

16. ALL CONTROL ITEMS AND PIECES OF EQUIPMENT SHALL BE PERMANENTLY LABELED.

17. AS-BUILT PRINTS SHALL BE PROVIDED TO THE OWNER AT PROJECT CLOSEOUT.

18. A COMPLETE TEST AND BALANCE REPORT FOR ALL AIR SYSTEMS SHALL BE PROVIDED TO THE OWNER PRIOR TO PROJECT CLOSEOUT.

19. CONTRACTOR SHALL PROVIDE COMPLETE OWNER TRAINING FOR ALL MECHANICAL COMPONENTS.

20. CONTRACTOR SHALL PROVIDE 2 COPIES OF THE OPERATIONS AND MAINTENANCE MANUALS TO THE OWNER PRIOR TO PROJECT CLOSEOUT.

21. CONTRACTOR SHALL PROVIDE 1 YEAR GUARANTEE ON ALL EQUIPMENT AND WORK.

HVAC GENERAL NOTES

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT PLACEMENT OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. IF A PARTICULAR ITEM IS NOT SHOWN ON THE REFLECTED CEILING PLANS, COORDINATE ITS LOCATION WITH ALL DISCIPLINES.

2. ALL ROOF MOUNTED EQUIPMENT REQUIRING SERVICE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE EDGE OF ANY ROOF THAT IS 30" OR MORE ABOVE FLOOR, GRADE OR ADJOINING ROOF. OTHERWISE COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE A 42" HIGH GUARD RAIL EXTENDING 30" BEYOND EACH END OF THE EQUIPMENT PER 2015 IMC 304.11.

3. COORDINATE WITH THE GENERAL CONTRACTOR THE EXACT LOCATION OF ALL ROOF, WALL AND FLOOR PENETRATIONS ALONG WITH ANY ADDITIONAL FRAMING REQUIREMENTS FOR ALL ROOF MOUNTED EQUIPMENT OR LOUVER OPENINGS. AVOID PENETRATING ANY STRUCTURAL MEMBERS UNLESS NOTED ON THE ARCHITECTURAL OR STRUCTURAL PLANS. WHERE CONFLICTS ARISE, THE MECHANICAL CONTRACTOR SHALL SUBMIT A DRAWING TO THE ENGINEER SHOWING HIS PROPOSED SOLUTION.

4. FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS SHALL BE FREE OF SAGS AND KINKS AND SHALL BE THE SAME SIZE AS THE DIFFUSER INLET UNLESS OTHERWISE NOTED. MAXIMUM LENGTH = 6 FEET.

5. ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH AND TAPERED SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.

6. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

7. VERIFY THERMOSTAT LOCATIONS WITH THE OWNER.

8. CONDENSATE LINES SHALL BE TRAPPED AND SLOPED 1/8" PER FOOT IN HORIZONTAL RUNS.

9. MOUNT ALL THERMOSTATS 4'-0" ABOVE FINISHED FLOOR AS MEASURED TO THE CONTROL POINT.

10. USE SPIN-IN AND TWIST LOCK FITTINGS WITH QUADRANT AND EXTRACTOR IN ALL ROUND DUCT TAKE-OFFS FROM RECTANGULAR DUCTWORK. PROVIDE A MANUAL DAMPER IN ALL RUNOUTS TO DIFFUSERS.

11. IF EQUIPMENT TO BE SUPPLIED BY CONTRACTOR IS DIFFERENT THAN THAT SPECIFIED IN PLANS OR SPECIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL DISCIPLINES ANY CHANGES NEEDED BECAUSE OF UNIT SIZE, ROOF OPENING SIZE, WEIGHT, LOCATION, ELECTRICAL SERVICE, ETC.

12. COORDINATE VOLTAGE OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE SUBMITTING SHOP DRAWINGS OR ORDERING EQUIPMENT. ALL POWER AND CONTROL WIRING TO DAMPER MOTORS, SWITCHES AND ALL OTHER CONTROL COMPONENTS IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR. IT IS HIS RESPONSIBILITY TO COORDINATE WITH HIS SUBCONTRACTORS TO ENSURE THAT THIS PRICE IS INCLUDED IN THE OVERALL MECHANICAL PRICE.

13. THE VENTILATION RATE PROCEDURE HAS BEEN USED TO ASSIGN ACCEPTABLE INDOOR AIR QUALITY PER ASHRAE 62-2016. THIS DESIGN SHOULD BE RE-EVALUATED, IF AT A LATER TIME, SPACE USE CHANGES OCCUR OR IF CONTAMINANTS ARE TO BE INTRODUCED OR UNUSUALLY STRONG SOURCES OF SPECIFIC CONTAMINANTS ARE TO BE INTRODUCED INTO THE SPACE.

14. COORDINATE WITH THE GENERAL CONTRACTOR TO DETERMINE IF DUCT ROUTING AND SIZE AS PROPOSED IS FEASIBLE GIVEN THE ACTUAL FRAMING SYSTEM TO BE USED. IF NOT, THE MECHANICAL CONTRACTOR SHALL SUBMIT HIS SUGGESTED CHANGE PRIOR TO ANY DUCT FABRICATION.

15. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS.

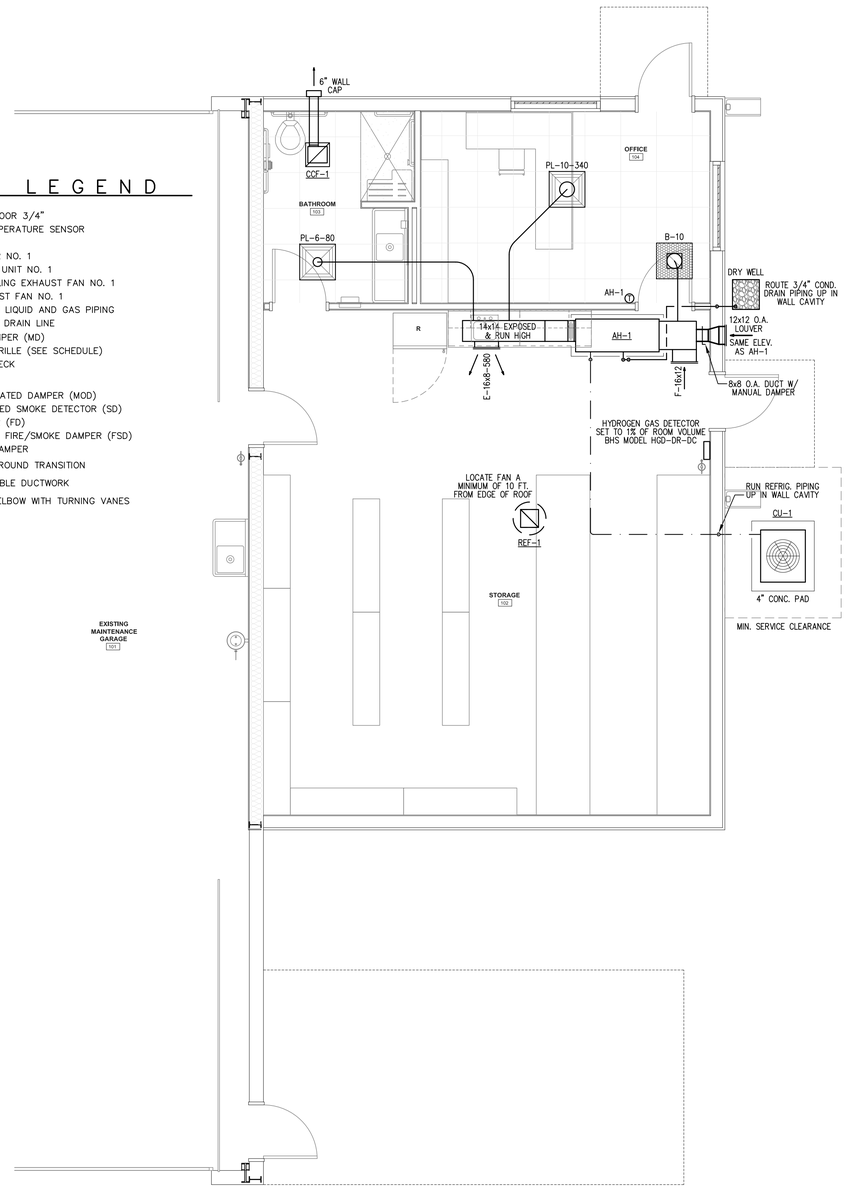
PIPE SIZING SCHEDULE*

SYMBOL	R-410A (LIQUID)	R-410A (GAS)	CONDENSATE DRAIN	REMARKS
CU-1	3/8"	3/4"	3/4"	

* SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY. VERIFY EXACT SIZES WITH UNIT MANUFACTURER BEFORE INSTALLING ANY PIPING. PROVIDE REFRIGERANT PIPE LENGTH, VERTICAL RISE AND NUMBER OF ELBOWS TO SUPPLIER FOR SIZING

HVAC LEGEND

- UNDERCUT DOOR 3/4"
- TS — REMOTE TEMPERATURE SENSOR
- THERMOSTAT
- AH-1 — AIR HANDLER NO. 1
- CU-1 — CONDENSING UNIT NO. 1
- CCF-1 — CABINET CEILING EXHAUST FAN NO. 1
- REF-1 — ROOF EXHAUST FAN NO. 1
- REFRIGERANT LIQUID AND GAS PIPING
- CONDENSATE DRAIN LINE
- MANUAL DAMPER (MD)
- PL-8-130 — TYPE "PL" GRILLE (SEE SCHEDULE) 8" ROUND NECK 130 CFM
- MOTOR OPERATED DAMPER (MOD)
- DUCT MOUNTED SMOKE DETECTOR (SD)
- FIRE DAMPER (FD)
- COMBINATION FIRE/SMOKE DAMPER (FSD)
- RD — RADIATION DAMPER
- SQUARE TO ROUND TRANSITION
- ROUND FLEXIBLE DUCTWORK
- 90 DEGREE ELBOW WITH TURNING VANES



M1 HVAC FLOOR PLAN

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

4 0 4 8

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

FELKEL & HASTINGS
Mechanical Engineers
2725 Cypress Street
Columbia, S.C. 29205
Comm. No.: 20-20a Date: 11-02-20

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No.12548 LOUIS C. BUSTO

CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA FELKEL & HASTINGS, CONSULTING MECHANICAL ENGINEERS No. C00429

MARK	DESCRIPTION	DATE

DESIGNED BY: Busto
DRAWN BY:
CHECKED BY: Busto
SUBMITTED BY:
ISSUE DATE: 11/06/2020
SOLICITATION NO.:
CONTRACT NO.: PO#2089221
FILE NUMBER:
FILE NAME:
SIZE: ANSI D

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
1201 Main Street, Suite 1200
Columbia, SC 29201
Phone (803) 7994502
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

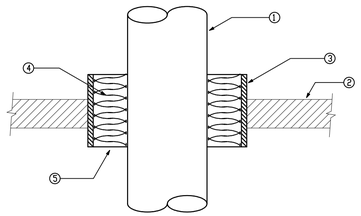
HVAC FLOOR PLAN

SHEET ID
M-101
SHEET OF 2

C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_r19_mathisw.rvt
6/2/2020 8:40:34 AM

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID



NOTES:

1. PIPES THRU FLOORS REQUIRE CONCRETE CURB NOT SHOWN.
2. FIRE WALL OR FLOOR PENETRATION, SEE SPECIFICATION FOR FIRE STOPPING AND ACOUSTICAL SEALANT.

LEGEND

1. PIPE
2. WALL, FLOOR, PARTITION, ETC.
3. STEEL PIPE SLEEVE
4. VOID SHALL BE PACKED ALL AROUND WITH MINERAL WOOL BATT.
5. SEAL EACH MINERAL WOOL SURFACE WITH NON-HARDENING SEALANT MIN. 1" DEPTH.

PIPE THRU STRUCTURE DETAIL

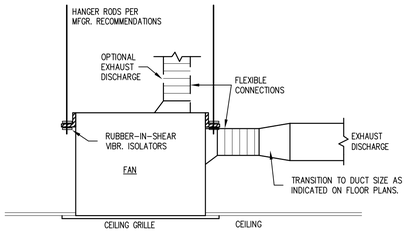
NOT TO SCALE

* DENOTES UNIT REQUIRES A SMOKE DETECTOR

SPLIT SYSTEM HEAT PUMP SCHEDULE

SYMBOL	MFGR.	OUTDOOR CONDENSING UNIT DATA					INDOOR AIR HANDLER DATA										HEATING				COOLING			REMARKS
		MODEL NO.	WEIGHT (LBS.)	VOLTAGE VERIFY WITH ELEC. CONTR.	MCA (AMPS)/ MaxFS (AMPS)	TYPE REFRIGERANT	MODEL NO.	POSITION	WEIGHT (LBS.)	NOMINAL AIR FLOW (CFM)	EXTERNAL STATIC PRESSURE (IN.)	FAN H.P.	BLOWER MOTOR VOLTAGE	FRESH AIR (CFM)	ELECT. SUPP. HEATER SECTION K.W.	ELECT. SUPP. HEATER SECTION VOLTAGE VERIFY	MCA (AMPS)/ MOCP (AMPS)	MBH 1st STAGE REVERSE CYCLE AT 70°F E.A.T. AND 17°F O.A.	MBH 2nd STAGE SUPPLEMENTAL ELECT. HEAT	TOTAL MBH 1st + 2nd STAGE	UNIT HSPF / MINIMUM HSPF PER ASHRAE 90.1	MBH AT E.A.T. OF 80°F DB/67°F WB AND 95°F O.A. TOTAL	MBH AT E.A.T. OF 80°F DB/67°F WB AND 95°F O.A. SENSIBLE	UNIT SEER OR EER / MINIMUM SEER OR EER PER ASHRAE 90.1	
AH & CU-1	TRANE	4TWR4030	250	240-1-60	17/25	R-410A	TEM6A0B30	HORIZ.	150	1000	0.4	1/3	208-1-60	130	4.8	240-1-60	30/30	17.8	16.4	34.2	8.5/7.7	29.5	22.4	14.5/14.0	1 THRU 8

1. FURNISH WITH 7-DAY PROGRAMMABLE THERMOSTAT.
2. FURNISH WITH OUTDOOR THERMOSTAT.
3. FURNISH WITH ANTI-SHORT-CYCLE TIMER CONTROLS.
4. FURNISH WITH LOW AMBIENT CONTROLS AS SPECIFIED.
5. FURNISH WITH EVAPORATOR DEFROST CONTROLS.
6. FURNISH WITH CONDENSER COIL HAIL/VANDAL GUARD.
7. FURNISH WITH SINGLE POINT POWER FOR BLOWER AND HEATER.
8. FURNISH WITH THREE SETS OF MERV 8 AIR FILTERS.



CEILING CABINET FAN DETAIL

NOT TO SCALE

VENTILATING EQUIPMENT SCHEDULE

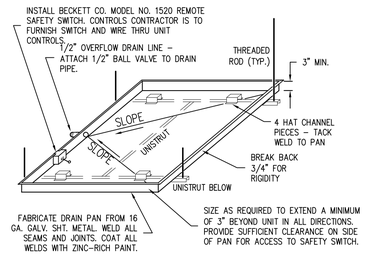
SYMBOL	MFGR.	MODEL NO.	FAN TYPE	FAN DIA.	FAN RPM	FAN MAX. SONES	MOTOR NO. OF SPEEDS	MOTOR HP OR AMPS	MOTOR VOLTAGE CHAR.	CAPACITY CFM	CAPACITY S.P. (IN)	SPACES SERVED	TYPE FAN	CONTROLS	WEIGHT (LBS)	REMARKS
CCF-1	GREENHECK	SP-A90	CENT.	--	870	1.0	1	0.14 AMPS	120-1-60	80	0.25	BATHROOM 103	CABINET CEILING	LIGHT SWITCH	12	1, 2, 3, 4
REF-1	GREENHECK	G-095	CENT.	--	1300	7.0	1	1/12 HP	120-1-60	720	0.125	STORAGE 102	ROOF CENTR.	GAS DETECTOR	30	1, 2, 5, 6

1. FURNISH WITH DISCONNECT.
2. FURNISH WITH BACKDRAFT DAMPER.
3. FURNISH WITH HANGING VIBRATION ISOLATORS.
4. FURNISH WITH WC-8 WALL CAP.
5. FURNISH WITH PRE-FAB ROOF CURB (FOR PITCHED ROOF).
6. FURNISH WITH BIRD SCREEN.

AIR DISTRIBUTION SCHEDULE

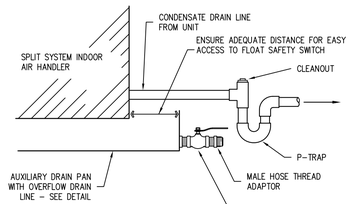
SYMBOL	MOUNTING	PRICE MODEL NO.	METAL-AIRE MODEL NO.	TITUS MODEL NO.	FRAME SIZE (IN)	FACE TYPE	NECK	FINISH (FACE/INT)	USE	MATERIAL	REMARKS
A	LAY-IN	APDC	7000-6	PCS-AA	24X24	PERFORATED	ROUND	WHT/WHT	SUPPLY	ALUMINUM	1, 2
B	LAY-IN	APDDR	7000R-6	PAR-AA	24X24	PERFORATED	ROUND	WHT/WHT	RET/EXH	ALUMINUM	-
E	SIDEWALL	620D	V4004D	300FS	NECK + 2-1/2	DOUBLE DEFL.	SEE PLAN	MILL	SUPPLY	ALUMINUM	1, 5
F	SIDEWALL	630D	RHD	350FS	NECK + 2-1/2	FIXED BLADE	SEE PLAN	MILL	RET/EXH	ALUMINUM	1, 5
G	DOOR GRILLE	ATG	DG DF	CT-700L	NECK + 2-1/2	V LOUVER	SEE PLAN	MILL	TRANSFER	ALUMINUM	5
PL	LAY-IN	ASCD	5800A AL	TMS-AA	24X24	3 CONES	SEE PLAN	WHITE	SUPPLY	ALUMINUM	4
PS	SURFACE/CEILING	ASCD	5800A AL	TMS-AA	12X12/20X20	3 CONES	SEE PLAN	WHITE	SUPPLY	ALUMINUM	3, 4

1. FURNISH WITH OPPOSED BLADE DAMPER.
2. FURNISH WITH SQUARE TO ROUND NECK ADAPTER
3. FURNISH WITH PLASTER FRAME.
4. FURNISH WITH BALANCING DAMPER.
5. PAINT IN FIELD TO MATCH COLOR OF WALL/DOOR (COLOR AS SELECTED BY THE ARCH.)



AUXILIARY DRAIN PAN DETAIL

NOT TO SCALE



CONDENSATE DRAIN PIPING DETAIL

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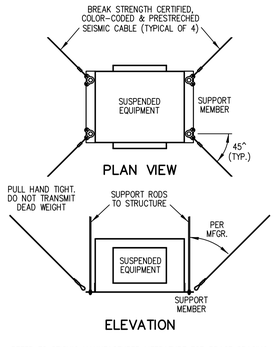
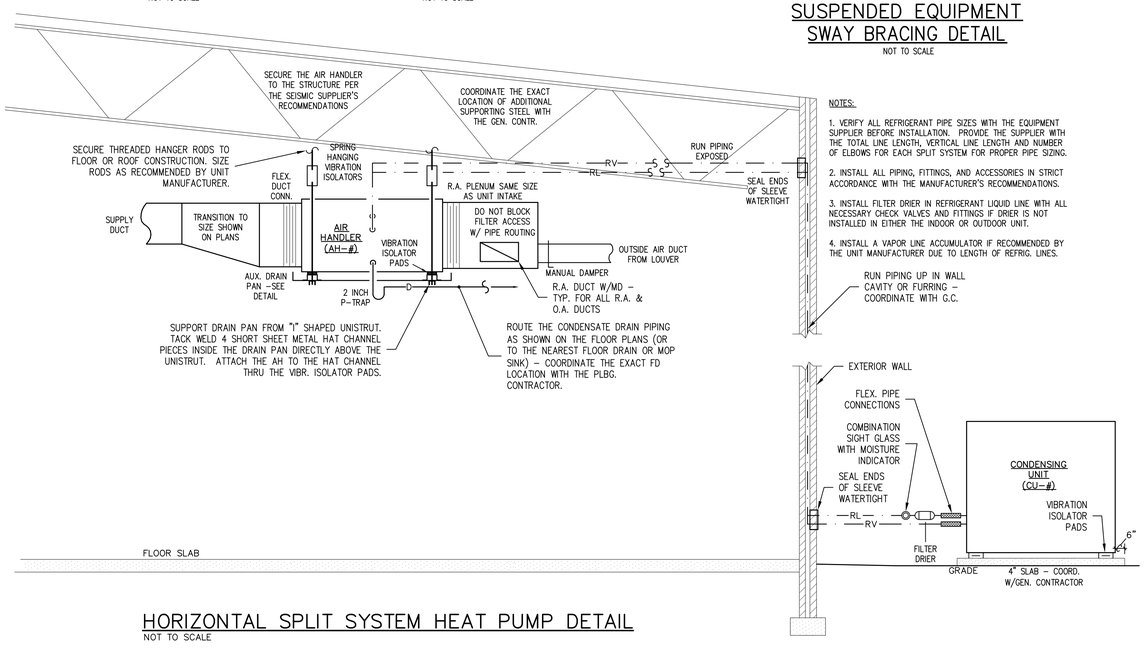


REFER TO SEISMIC MANUFACTURER LITERATURE FOR BRACE SPACING, REQUIRED BRACE LOCATIONS, LOAD CALCULATION PROCEDURES, SIZING AND ALLOWABLE LOADS ON BRACE ASSEMBLIES AND FASTENERS.

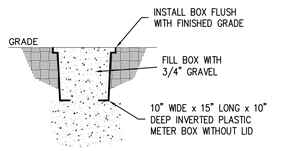
SUSPENDED EQUIPMENT SWAY BRACING DETAIL

NOT TO SCALE



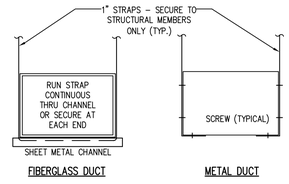
HORIZONTAL SPLIT SYSTEM HEAT PUMP DETAIL

NOT TO SCALE

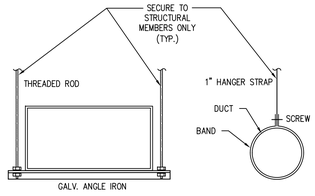


DRYWELL DETAIL

NOT TO SCALE



DUCTS UP TO 24" WIDTH

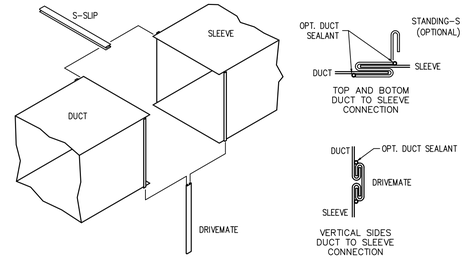


GREATER THAN 24" WIDTH

SEE SPECIFICATIONS TO DETERMINE IF AND WHEN FIBERGLASS DUCTWORK IS ALLOWED

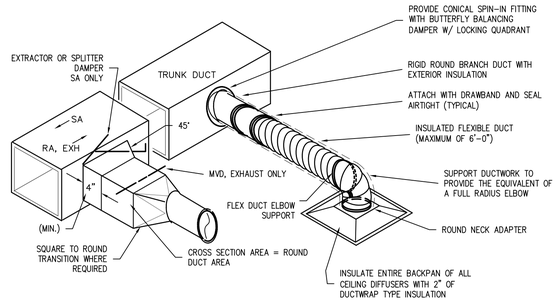
LOW PRESSURE DUCTWORK HANGER DETAIL

NOT TO SCALE



SLIP & DRIVE DUCT CONNECTION DETAIL

NOT TO SCALE



DUCT TAKE-OFF DETAIL

NOT TO SCALE

4 0 4 8

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

FELKEL & HASTINGS
Mechanical Engineers
2725 Cypress Street
Columbia, S.C. 29205
Comm. No.: 20-20a Date: 11-02-20

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No.12548 LOUIS C. BUSTO

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FELKEL & HASTINGS, CONSULTING MECHANICAL ENGINEERS No. C00429

MARK	DESCRIPTION	DATE

ISSUE DATE: 11/06/2020
SOLICITATION NO.:
CONTRACT NO.: PO#2089221
FILE NUMBER:
FILE NAME:

DESIGNED BY: Busto
DRAWN BY:
CHECKED BY: Busto
SUBMITTED BY:
SIZE: ANSI D

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
Pond & Company
1520 Sunday Drive, Suite 100
Columbia, SC 29201
Phone (803) 799-6502
JOB NO. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

HVAC SCHEDULES & DETAILS

SHEET ID

M-102

SHEET OF 2

6/2/2020 9:40:34 AM C:\Users\mathisw\Documents\1200503_Newberry Fleet_Arch-I_v19_mathisw.rvt

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

ELECTRICAL SYMBOL SCHEDULE - GENERAL

GENERAL

LP1–2,4	BRANCH CIRCUIT RACEWAY. RUN CONCEALED IN CEILING OR WALLS. ARROWHEAD DENOTES HOMERUN TO PANEL. CROSSLINES DENOTE NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO ARE TO BE INSTALLED. TEXT DENOTES PANEL NAME AND CIRCUIT NUMBERS FOR HOMERUN. INSTALL GROUND WIRE IN ALL RACEWAYS. #12 AWG MINIMUM AND AS PER CODE.
LP1–2,4	BRANCH CIRCUIT RACEWAY. RUN IN OR UNDER SLAB OR FLOOR. ARROWHEAD DENOTES HOMERUN TO PANEL. CROSSLINES DENOTE NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO ARE TO BE INSTALLED. TEXT DENOTES PANEL NAME AND CIRCUIT NUMBERS FOR HOMERUN. INSTALL GROUND WIRE IN ALL RACEWAYS. #12 AWG MINIMUM AND AS PER CODE.
PP1	ELECTRICAL DISTRIBUTION OR BRANCH CIRCUIT PANELBOARD. TEXT DENOTES NAME, REFER TO DRAWINGS FOR LOCATION. SEE POWER RISER DIAGRAM AND PANEL SCHEDULES. SURFACE OR FLUSH MOUNTED AS INDICATED ON PANEL SCHEDULE.
	JUNCTION BOX, FLUSH WALL MOUNTED IN FINISHED WALLS, SURFACE MOUNTED WHERE INDICATED ON DRAWINGS. MINIMUM 4" SQUARE WITH APPROPRIATE REDUCING RING FOR DEVICE BEING INSTALLED. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL WHERE MOUNTING HEIGHT IS NOT INDICATED ON DRAWINGS. SIZE PER NEC.

GENERAL NOTES ALL DRAWINGS:

1. DO NOT SCALE DRAWINGS. LOCATE OUTLETS, EQUIPMENT AND OTHER ELECTRICAL DEVICES AS INDICATED AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE #12 AWG. PROVIDE DEDICATED NEUTRAL FOR EACH MULTI–WIRE BRANCH CIRCUIT IN COMPLIANCE WITH NEC.
3. ALL FUSES SHALL BE DUAL–ELEMENT TYPE, "FUSETRON" BY BUSSMAN, "ECON" BY ECONOMY, OR FERRAZ SHAWMUT.
4. BRANCH CIRCUIT SIZES ARE #12 AWG, 1/2"C. UNLESS OTHERWISE NOTED IN PANELBOARD SCHEDULES OR ON DRAWINGS.
5. ALL BRANCH CIRCUIT LOADS SHALL BE BALANCED ACROSS PANELBOARD BUSSES TO OBTAIN MINIMUM NEUTRAL CURRENT.
6. ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND PER NEC TABLE 250–122.
7. PROVIDE PULL STRING IN ALL EMPTY RACEWAYS.
8. COORDINATE WITH OTHER TRADES TO CONCEAL ELECTRICAL WORK AND PROVIDE OUTLETS IN CORRECT LOCATIONS.
9. DO NOT FLUSH MOUNT JUNCTION BOXES BACK TO BACK, STAGGER TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.
10. CONCEAL OUTLETS FOR ALL EQUIPMENT IN FINISHED AREAS. OBTAIN ROUGHING DIAGRAMS FOR ALL EQUIPMENT AND INSTALL ELECTRICAL WORK ACCORDING TO DIAGRAMS.
11. MOUNT BRACKET TYPE LIGHTING FIXTURES AT HEIGHTS SHOWN OR SCHEDULED ON DRAWINGS OR AS DIRECTED ON JOB BY ARCHITECT UNLESS NOTED OTHERWISE.
12. SEAL ALL PENETRATIONS TO RATED WALLS AND CEILINGS WITH UL LISTED FIREPROOFING SYSTEM. THIS IS TO INCLUDE BUT IS IN NO WAY LIMITED TO CONDUCTOR, RACEWAY AND DEVICE PENETRATIONS. SUBMIT SYSTEM AND INSTALLATION DETAILS AS PART OF SHOP DRAWING SUBMITTAL.
13. WHERE NOT INDICATED OTHERWISE, EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC TABLE 250–122.
14. ALL METAL CONDUITS 1" AND LARGER SHALL HAVE A GROUNDING BUSHING BONDING CONDUIT TO ENCLOSURE.
15. REMOVE DRYWALL DUST AND MUD FROM THE INTERIOR OF BOXES BEFORE INSTALLING DEVICES.
16. AT SUBSTANTIAL COMPLETION CLEAN ALL LIGHT FIXTURES AND CLEAN ALL DEVICES IN THE CONSTRUCTION AREAS. REPLACE DAMAGED DEVICES AND DEVICE PLATES AS NEEDED.
17. VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS WITH MECHANICAL PLANS. IF MECHANICAL EQUIPMENT BEING PROVIDED DOES NOT MATCH DESIGN NOTIFY ENGINEER IMMEDIATELY.
18. CONCEAL ALL CONDUIT AND RACEWAY. IF CONDITIONS REQUIRE CONDUIT OR RACEWAY TO BE RUN EXPOSED COORDINATE ROUTING WITH ARCHITECT AND PAINT AS REQUIRED BY ARCHITECT.
19. ALL RACEWAYS TRANSITIONING BETWEEN CONDITIONED AND UNCONDITIONED SPACED AND RACEWAYS EXITING BUILDING SHALL BE SEALED IN ACCORDANCE WITH NEC. USE POLYWATER FST DUCT SEALANT SYSTEM OR EQUIVALENT.
20. ELECTRICAL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, REQUIREMENTS AND ORDINANCES.
21. ALL BACKBOXES SHALL BE MINIMUM 4" SQUARE.
22. ALL EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE WITH INSULATED THROAT.
23. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE BLOCKING AT ALL WALL MOUNTED DEVICES (TELEVISIONS, ETC.).
24. PROVIDE PLASTIC ENGRAVED NAMETAGS FOR ALL ELECTRICAL GEAR. INDICATE EQUIPMENT NAME, EQUIPMENT SERVED (WHERE APPLICABLE), FEEDER SOURCE AND CIRCUIT, VOLTAGE. LETTERING SHALL BE 3/8" IN HEIGHT, WHITE ON BLACK BACKGROUND.

ELECTRICAL SYMBOL SCHEDULE - LIGHTING SYSTEMS AND ACCESSORIES

LIGHTING

A	CEILING MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. SEE RECESSED LAY–IN FIXTURE DETAIL FOR LAY–IN FIXTURES MOUNTED IN CEILING GRID. LETTER DENOTES FIXTURE TYPE.
A	STRIP FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. LETTER DENOTES FIXTURE TYPE.
A A	WALL MOUNTED FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE, MOUNTING HEIGHTS AS INDICATED ON DRAWINGS OR IN LIGHT FIXTURE SCHEDULE OR AS DIRECTED BY OWNER. LETTER DENOTES FIXTURE TYPE. PROVIDE COLD WEATHER BALLASTS FOR ALL FIXTURES LOCATED OUTDOORS.
A	PENDANT MOUNTED FIXTURE. EXISTING.
	LED EXIT SIGN WITH INTEGRAL DUAL REMOTE EGRESS LAMP HEADS. WALL OR CEILING MOUNTED, STEM DENOTES WALL MOUNTED. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.
	LED EXIT SIGN WITH INTEGRAL DUAL REMOTE EGRESS LAMP HEADS AND HIGH OUTPUT BATTERY CAPABLE OF POWERING DUAL REMOTE EGRESS HEADS AT BUILDING EXTERIOR. WALL OR CEILING MOUNTED, STEM DENOTES WALL MOUNTED. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.
$	120–277V, 20A SINGLE POLE LIGHT SWITCH. HEAVY DUTY TYPE. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS.
$3	120–277V, 20A 3–WAY LIGHT SWITCH. HEAVY DUTY TYPE. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS.
$4	120–277V, 20A 4–WAY LIGHT SWITCH. HEAVY DUTY TYPE. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS.
$D	120–277V, 20A DIMMER LIGHT SWITCH. WITH ON–OFF–PRESET FUNCTIONALITY. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS. COORDINATE WITH LIGHTING VENDOR TO PROVIDE TESTED AND APPROVED DIMMER FOR LIGHT FIXTURE AND SOURCE BEING CONTROLLED. PROVIDE SEPARATE BACKBOX FOR EACH DIMMER SWITCH. SUBSCRIPT "3" DENOTES 3–WAY DIMMER TYPE.
$M	120–277V, 20A, 1HP @ 120V MOTOR RATED TOGGLE SWITCH. HEAVY DUTY TYPE. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS. 30A/2HP RATED WHERE INDICATED ON DRAWINGS.
	120–277V OCCUPANCY SENSOR WALL SWITCH. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED ON DRAWINGS. WATTSTOPPER DW–100 OR EQUIVALENT. "P" DENOTES PASSIVE INFRARED TYPE (WATTSTOPPER PW–100), "U" DENOTES ULTRASONIC TYPE (WATTSTOPPER UW–100).
	CEILING MOUNTED LOW VOLTAGE 360° COVERAGE OCCUPANCY SENSOR, DUAL TECHNOLOGY UNLESS OTHERWISE NOTED ON DRAWINGS. WATTSTOPPER DT–300/305 OR EQUIVALENT. "P" DENOTES PASSIVE INFRARED TYPE (WATTSTOPPER CI–300/305), "U" DENOTES ULTRASONIC TYPE (WATTSTOPPER WT SERIES). PROVIDE QUANTITY OF POWER PACKS AS REQUIRED TO SUIT LOAD. PROVIDE SIGNAL CABLING AS REQUIRED TO LINK MULTIPLE SENSORS/POWER PACKS SERVING COMMON AREA OR LIGHTING ZONE.

ELECTRICAL SYMBOL SCHEDULE - POWER

POWER

	120V, 20A DUPLEX RECEPTACLE, NEMA 5–20R. WALL MOUNTED, REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A DUPLEX RECEPTACLE, NEMA 5–20R. WALL MOUNTED AT 42" AFF OR MINIMUM 6" ABOVE COUNTERTOP BACKSPLASH UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A QUADRAPLEX RECEPTACLE CONSISTING OF TWO DUPLEX RECEPTACLES IN COMMON BACKBOX, NEMA 5–20R. WALL MOUNTED AT 42" AFF OR MINIMUM 6" ABOVE COUNTERTOP BACKSPLASH UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	208V (OR 240V), 1ø RECEPTACLE, WALL MOUNTED. TYPE AND RATING AS INDICATED ON DRAWINGS OR AS REQUIRED BY EQUIPMENT BEING INSTALLED. COORDINATE WITH EQUIPMENT BEING FURNISHED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND EQUIPMENT BEING INSTALLED.
	HEAVY DUTY DISCONNECT SWITCH, SEE SCHEDULE.

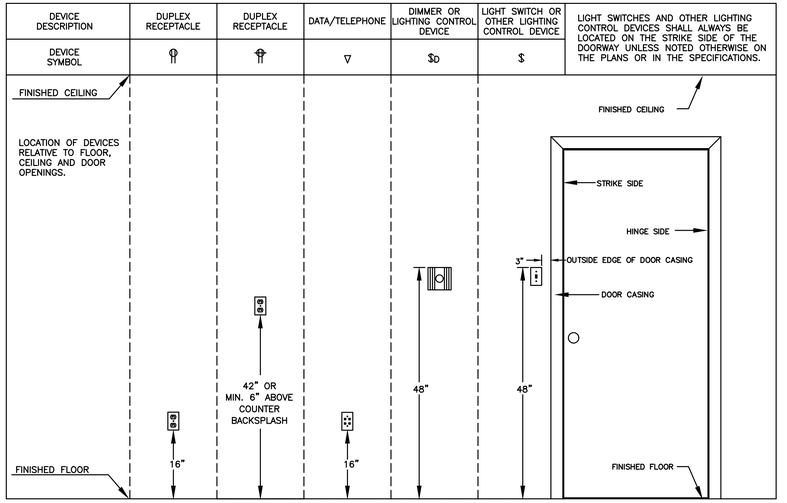
WIRING DEVICE TYPICAL NOTATIONS

GF	GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE.
GF WP	GROUND FAULT CIRCUIT INTERRUPTER TYPE WITH CAST WEATHERPROOF IN–USE TYPE COVER. ALL RECEPTACLES LOCATED OUTDOORS OR EXPOSED TO THE ELEMENTS SHALL BE WEATHER RESISTANT LISTED WITH "WR" LISTING ON FACE OF DEVICE BY FACTORY.
DI	INDICATES JUNCTION BOX TO BE INSTALLED IN CASEWORK FOR POWER TO SINK DISPOSAL. COORDINATE LOCATION OF SINK DISPOSAL WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGHING IN.

ELECTRICAL SYMBOL SCHEDULE - COMMUNICATIONS

COMMUNICATIONS

	COMBINATION DATA/TELEPHONE OUTLET LOCATION. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. PROVIDE 3/4"C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING.
TELE	JUNCTION BOX FOR TELEPHONE PROVIDER SERVICE ENTRANCE. EXISTING.
	ANTENNA LOCATION. EXISTING.



****ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.****

NOTE: WHERE WALL BLOCKING INTERFERES WITH EXACT MOUNTING HEIGHTS, CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT PRIOR TO ROUGH–IN.

DEVICE MOUNTING HEIGHTS

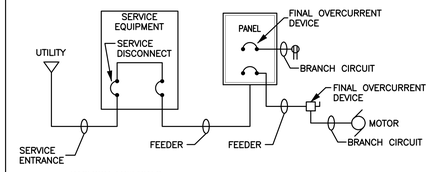
NO SCALE

DISCONNECT SWITCH SCHEDULE	
SWITCH	DESCRIPTION
S–1	30A/2P
S–2	60A/2P
S–3	100A/2P
S–4	200A/2P
S–5	400A/2P
S–6	30A/3P
S–7	60A/3P
S–8	100A/3P
S–9	200A/3P
S–10	400A/3P
S–11	30A/4WSN
S–12	60A/4WSN
S–13	100A/4WSN
S–14	200A/4WSN
S–15	400A/4WSN

SWITCH NOTES:

1. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
2. 240V OR 600V TO SUIT CIRCUIT VOLTAGE.
3. ALL DISCONNECTS FUSIBLE UNLESS OTHERWISE NOTED, PROVIDE FUSES TO SUIT LOAD.
4. ENCLOSURES NEMA 3R OUTDOORS AND IN WET LOCATIONS, NEMA 1 ELSEWHERE UNLESS OTHERWISE NOTED.
5. ALL OUTDOOR DISCONNECTS SERVING GROUND MOUNTED HVAC UNITS SHALL NOT BE MOUNTED HIGHER THAN 36" ABOVE FINISHED GRADE.
6. COORDINATE WITH EQUIPMENT MANUFACTURER AND INSTALL TO PROVIDE REQUIRED CLEARANCES PER NEC.

RACEWAY MATERIAL SCHEDULE



RACEWAY MATERIALS:

FEEDERS: IMC, GRS, EMT (INTERIOR)

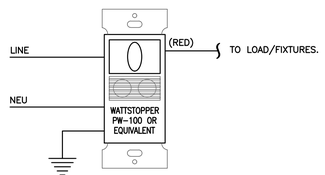
BRANCH CIRCUITS CONCEALED ABOVE CEILING/IN WALLS: AC/MC CABLE*, EMT, IMC, GRS

BRANCH CIRCUITS EXPOSED (INTERIOR): EMT

* WHERE PERMITTED BY CODE.

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	ARC FAULT CIRCUIT INTERRUPTER
BKR	BREAKER
C	CONDUIT
CATV	CABLE TELEVISION
CKT	CIRCUIT
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
FCU	FAN COIL UNIT
GC	GENERAL CONTRACTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
IG	DEVICE SHALL HAVE ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
JB or J–BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MFR	MANUFACTURER
NMC	NONMETALLIC–SHEATHED CABLE
V	VOLT
NEC	2017 NATIONAL ELECTRICAL CODE, (NFPA 70)
SWBD	SWITCHBOARD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WC	WATER COOLER
XFMR	TRANSFORMER



AUTOMATIC WALL SENSOR SWITCH (S)

TYPICAL SINGLE RELAY WIRING SCHEMATIC

NO SCALE

NOTE 1: SCHEMATIC IS REPRESENTATIVE OF WATTSTOPPER PW/DW–100 AND DSW–100. CONNECTION REQUIREMENTS AND COLOR CODING MAY DIFFER BETWEEN MANUFACTURERS. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS.

NOTE 2: WHERE APPLICABLE, CONNECT EXIT SIGNS, BATTERY PACKS FOR EGRESS LIGHTING, AND NIGHT LIGHTS LINE SIDE OF AUTOMATIC WALL SWITCH SENSORS.

eti ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
eti@etiservices.net
Project Manager:
Bryson Tucker PE, x101
ETI #2003-10610

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ETI ENGINEERING, LLC No. C02936

REGISTERED PROFESSIONAL ENGINEER BRYSON DAVIS TUCKER No. 23558 11/06/2020

MARK	DESCRIPTION	DATE

DESIGNED BY:	Designer
DRAWN BY:	TJW
CHECKED BY:	BDT
SUBMITTED BY:	
SIZE:	ANSI D
FILE NAME:	
ISSUE DATE:	11/06/2020
SOLICITATION NO.:	XX–XXXX
CONTRACT NO.:	XX–XXXX
CONTRACT NUMBER	
FILE NUMBER:	XX–X–XXXX

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
Pond & Company
1255 Roberts Blvd, Suite 200
Peachtree Corners, GA 30092
Phone (678) 336-2240
Fax (678) 336-2214
GA LIC. 2980
SC LIC. 2205003

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

ELECTRICAL SYMBOLS, SCHEDULES AND DETAILS

SHEET ID

E-000

SHEET 1 OF 7

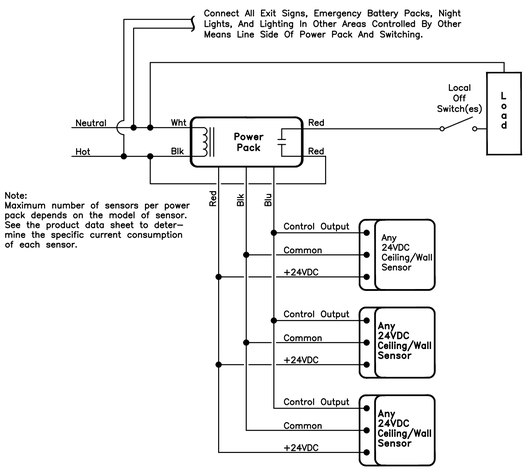
ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS	WATTAGE	NOTES
A2	2'X4' LED FLAT PANEL FIXTURE.	COOPER #24CGT55**C EMERGENCY #EBPLED	LEED BY MFR.	46.8W	
S8	8' LED LENSED STRIPLIGHT FIXTURE. SUSPEND FIXTURE 9'-0" AFF.	COOPER #BSLSTP110**DD-UNV	LEED BY MFR.	83.0W	
V2	2'X2' FLUORESCENT 2-ULAMP TROFFER WITH ACRYLIC LENS.	COOPER #2BCLED-LD4-8SL-F-UNV-L8**-CD1-U	LEED BY MFR.	10.1W	
X1	EXTERIOR LED WALL PACK FIXTURE WITH BUILT-IN PHOTOCONTROL. MOUNT 7'-6" AFF.	COOPER #XTOR1B-*-*-PC1	LEED BY MFR.	12.0W	
	LED EXIT LIGHT WITH EMERGENCY EGRESS LED LAMPS, 90 MINUTE MINIMUM BATTERY BACKUP. *HOUSING AND LETTERING COLOR AS DIRECTED BY ARCHITECT.	COOPER #LPXC SERIES	BY MFR.	0.7W	CONNECT TO LINE SIDE OF ANY SWITCHING VIA LIGHTING CIRCUIT SERVING SAME AREA.
	LED EXIT LIGHT WITH EMERGENCY EGRESS LED LAMPS AND REMOTE DUAL HEAD LED EGRESS FIXTURE. HIGH OUTPUT BATTERY, 90 MINUTE MINIMUM BATTERY BACKUP. *HOUSING AND LETTERING COLOR AS DIRECTED BY ARCHITECT.	COOPER #LPXC25R3 REMOTE HEAD: COOPER #SRP25D*	BY MFR.	3.3W	CONNECT TO LINE SIDE OF ANY SWITCHING VIA LIGHTING CIRCUIT SERVING SAME AREA.
	DUAL LAMP EMERGENCY EGRESS FIXTURE. MOUNT 7'-6" AFF. WHEN SHOWN AS WALL MOUNTED. 90 MINUTE MINIMUM BATTERY BACKUP. ALLOWS FOR 25FT. SPACING.	COOPER #SEL-25-SD-*	BY MFR.	1.2W	CONNECT TO LINE SIDE OF ANY SWITCHING VIA LIGHTING CIRCUIT SERVING SAME AREA.
	DUAL LAMP EMERGENCY EGRESS FIXTURE. MOUNT 7'-6" AFF. WHEN SHOWN AS WALL MOUNTED. 90 MINUTE MINIMUM BATTERY BACKUP. ALLOWS FOR 50FT. SPACING.	COOPER #SEL-50-SD-*	BY MFR.	1.2W	CONNECT TO LINE SIDE OF ANY SWITCHING VIA LIGHTING CIRCUIT SERVING SAME AREA.

1. OTHER MANUFACTURERS ACCEPTABLE WITH PRIOR APPROVAL OF ENGINEER.
2. HALF SHADED FIXTURES AND/OR LABELED "EB" SHALL BE EQUIPPED WITH 90 MINUTE MINIMUM EMERGENCY BATTERY PACK CONNECTED LINE SIDE OF ANY SWITCHING, RELAY, OR OTHER CONTROL DEVICE.
3. LAMPING COLOR TEMPERATURE PER ARCHITECT AND OWNER REQUIREMENTS.



Note:
Maximum number of sensors per power pack depends on the model of sensor. See the product data sheet to determine the specific current consumption of each sensor.

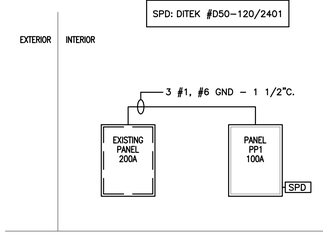
CEILING MOUNT OCCUPANCY SENSOR

TYPICAL WIRING SCHEMATIC FOR LOW VOLTAGE SENSOR

NO SCALE

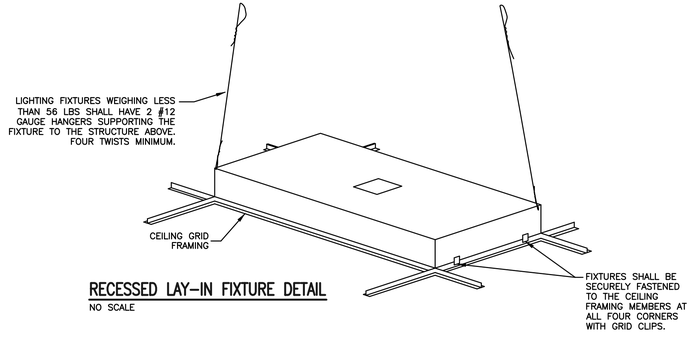
NOTE 1: SCHEMATIC IS REPRESENTATIVE OF WATTSTOPPER DT-300/305. CONNECTION REQUIREMENTS AND LOW VOLTAGE TOPOLOGY MAY DIFFER BETWEEN MANUFACTURERS. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS.
NOTE 2: WHERE APPLICABLE, CONNECT EXIT SIGNS, BATTERY PACKS FOR EGRESS LIGHTING, AND NIGHT LIGHTS LINE SIDE OF AUTOMATIC WALL SWITCH SENSORS.
NOTE 3: PROVIDE QUANTITY OF POWER PACKS AS REQUIRED TO SERVE LOADS AS INDICATED ON DRAWINGS. WHERE MULTIPLE BRANCH CIRCUITS SERVE THE SAME AREA, PROVIDE SEPARATE POWER PACKS FOR EACH BRANCH CIRCUIT AND PHASE.

RISER NOTES
SPD: DITEK #D50-120/2401



POWER RISER DIAGRAM

NO SCALE



RECESSED LAY-IN FIXTURE DETAIL

NO SCALE

NAME : EXISTING PANEL
SYSTEM : NORMAL
TYPE : SQUARE D
BUS AMPS : 200A
MAIN : MAIN
VOLTAGE : 120-240V/3ø/4W/SN
MOUNTING : SURFACE
HIGH LEG PANEL. INSTALL NEW BREAKER TO AVOID HIGH LEG. ASSUMED HERE TO BE B PHASE. FIELD VERIFY.

SHADING DENOTES EXISITNG CONDITIONS.

CKT.	CIRCUIT NAME	WIRE	COND	LOAD	BKR.	POLES	PHASE	POLES	BKR.	LOAD	COND	WIRE	CIRCUIT NAME	CKT.
1	CHAIN HOIST				20		A		100				EXISTING LOAD	2
3							B							4
5							C							6
7	SPACE ONLY						A							8
9	SPACE ONLY						B		40				COMPRESSOR	10
11	TO NEW PANEL "PP1"	SEE RISER	–	100N			C							12
13							A						SPACE ONLY	14
15	SPACE ONLY						B						SPACE ONLY	16
17	SPACE ONLY						C						SPACE ONLY	18
19	SPACE ONLY						A						SPACE ONLY	20
21	SPACE ONLY						B						SPACE ONLY	22
23	SPACE ONLY						C						SPACE ONLY	24
25	SPACE ONLY						A						SPACE ONLY	26
27	SPACE ONLY						B						SPACE ONLY	28
29	SPACE ONLY						C						SPACE ONLY	30
31	SPACE ONLY						A						SPACE ONLY	32
33	SPACE ONLY						B						SPACE ONLY	34
35	SPACE ONLY						C						SPACE ONLY	36
37	SPACE ONLY						A						SPACE ONLY	38
39	SPACE ONLY						B						SPACE ONLY	40

– CIRCUIT BREAKERS SHOWN IN PANEL ARE EXISTING UNLESS OTHERWISE NOTED.
– SUBSCRIPT "N" ADJACENT TO CIRCUIT BREAKER DESIGNATES A NEW CIRCUIT BREAKER.
– SUBSCRIPT "GF" ADJACENT TO CIRCUIT BREAKER DESIGNATES A NEW GROUND-FAULT TYPE CIRCUIT BREAKER.
* VERIFY WITH OWNER PROVIDED EQUIPMENT REQUIREMENTS
** OR AS REQUIRED BY EQUIPMENT BEING INSTALLED

NAME : EXISTING PANEL
SYSTEM : NORMAL
TYPE : SQUARE D
BUS AMPS : 200A
MAIN : MAIN
VOLTAGE : 120-240V/3ø/4W/SN
MOUNTING : SURFACE

SHADING DENOTES EXISITNG CONDITIONS.

CKT.	CIRCUIT NAME	WIRE	COND	LOAD	BKR.	POLES	PHASE	POLES	BKR.	LOAD	COND	WIRE	CIRCUIT NAME	CKT.
1	COMPUTER DESK OUTLETS				30		A		40				EXISTING LOAD	2
3	OUTLETS NEAR SIDE BACK WALL				20		B							4
5	WELDER RECEPTACLE				70		C		50				EXISTING LOAD	6
7							A		20				OUTLETS FAR SIDE	8
9	EXISTING LOAD				20		B		30				EXISTING LOAD	10
11	OVERHEAD LIGHTS FAR SIDE				20		C		20				FLOURESCENT LIGHT NEAR SIDE	12
13	OVERHEAD LIGHTS NEAR SIDE				20		A		20				FLOURESCENT LIGHTS FAR SIDE	14
15	HEATER				30		B		30				EXISTING LOAD	16
17	TIRE BALANCER				70		C		20				EXISTING LOAD	18
19							A		50				BLUE LIFT	20
21	SPACE ONLY						B							22
23	SPACE ONLY						C		30				RED LIFT	24
25	SPACE ONLY						A							26
27	SPACE ONLY						B						SPACE ONLY	28
29	SPACE ONLY						C						SPACE ONLY	30
31	SPACE ONLY						A						SPACE ONLY	32
33	SPACE ONLY						B						SPACE ONLY	34
35	SPACE ONLY						C						SPACE ONLY	36
37	SPACE ONLY						A						SPACE ONLY	38
39	SPACE ONLY						B						SPACE ONLY	40

– CIRCUIT BREAKERS SHOWN IN PANEL ARE EXISTING UNLESS OTHERWISE NOTED.
– SUBSCRIPT "N" ADJACENT TO CIRCUIT BREAKER DESIGNATES A NEW CIRCUIT BREAKER.
– SUBSCRIPT "GF" ADJACENT TO CIRCUIT BREAKER DESIGNATES A NEW GROUND-FAULT TYPE CIRCUIT BREAKER.
* VERIFY WITH OWNER PROVIDED EQUIPMENT REQUIREMENTS
** OR AS REQUIRED BY EQUIPMENT BEING INSTALLED

NAME : PP1
SYSTEM : NORMAL
TYPE : SQUARE D QO
INTERRUPTING RATING : 10K
BUS AMPS : 100A
MAIN : MLO
VOLTAGE : 120-240V/1ø/3W/SN
MOUNTING : SURFACE

CKT.	CIRCUIT NAME	WIRE	COND	LOAD	BKR.	POLES	PHASE	POLES	BKR.	LOAD	COND	WIRE	CIRCUIT NAME	CKT.
1	INTERIOR LIGHTS	12	1/2	0.7	20		A		20	0.1	1/2	12	EXTERIOR LIGHTS	2
3	OFFICE RECEPTACLES	12	1/2	0.8	20		C		20GF	1.0	1/2	12	STORAGE REFRIGERATOR	4
5	BATHROOM RECEPTACLE	12	1/2	0.2	20		A		20	0.2	1/2	12	STORAGE COUNTER RECEPTACLE	6
7	STORAGE RECEPTACLES	12	1/2	0.6	20		C		20	0.2	1/2	12	STORAGE COUNTER RECEPTACLE	8
9	REF-1	12	1/2	0.1	20		A		20	0.8	1/2	12	BATTERY CHARGING CABINET	10
11	SINK DISPOSAL	12	1/2	0.5	20GF		C		20	1.0	1/2	12	GAS WATER HEATER (GWH)	12
13	SPARE				20		A		20				SPARE	14
15	SPARE				20		C		20				SPARE	16
17	SPARE				20		A		20				SPARE	18
19	SPARE				20		C		20				SPARE	20
21	SPARE				20		A		20				SPARE	22
23	CU-1	10	3/4	3.6	25		C		30	6.3	3/4	10	AH-1	24
25							A							26
27	SPACE ONLY						C		30	–	3/4**	10	SPD	28
29	SPACE ONLY						A							30

CONNECTED LOAD, THIS SECTION (KVA): 16.1

– SUBSCRIPT "L" ADJACENT TO CIRCUIT BREAKER DESIGNATES A LOCKING PROVISION TYPE CIRCUIT BREAKER.
– SUBSCRIPT "GF" ADJACENT TO CIRCUIT BREAKER DESIGNATES A GROUND-FAULT TYPE CIRCUIT BREAKER.
* VERIFY WITH OWNER PROVIDED EQUIPMENT REQUIREMENTS
** OR AS REQUIRED BY EQUIPMENT BEING INSTALLED

eti ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
eti@etiservices.net
Project Manager:
Bryson Tucker PE, x101
ETI #2003-10610

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ENGINEERING, LLC No. C02936

CAROLINA REGISTERED PROFESSIONAL ENGINEER BRYSON CHANCE TUCKER No. 23558 11/06/2020

MARK	DESCRIPTION	DATE

ISSUE DATE: 11/06/2020
SOLICITATION NO.: XX-XXXX
CONTRACT NO.:
CONTRACT NUMBER
FILE NUMBER: XX-X-XXXX
FILE NAME:

DESIGNED BY: Designer
DRAWN BY:
CHECKED BY: BDT
SUBMITTED BY:
SIZE: ANSI D

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
Pond & Company
1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144
Phone (678) 336-2600
Fax (678) 336-2744
COA NO. 2205003

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

ELECTRICAL SCHEDULES, POWER RISER AND DETAILS

SHEET ID
E-001
SHEET 2 OF 7

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

ELECTRICAL SPECIFICATIONS

1. GENERAL PROVISIONS

A. Work included in these specifications and included on the drawings shall include furnishing all labor, materials, supplies, and equipment to perform all work required including cutting, channeling, chasing, excavating and backfilling, to install a complete and working electrical system(s) in accordance with these sections of the specifications and the accompanying drawings. This shall include all required preparation work, raceways, coordination, etc. required to install the electrical system.

B. The electrical work shall include, but in no way be limited to the following:
1. Raceways (To include raceways for conductors and cables, but also empty for designated signal systems and future uses.)
2. Electrical Distribution System.
3. Exterior and Interior Lighting Systems.
4. Exterior and Interior Power Systems.
5. Wiring Devices.
6. Telephone Raceway System.
7. Data Raceway System.
8. Connection and installation of Equipment Furnished Under Other Divisions of the Specification.

C. The contractor is responsible for including any and all work related to the electrical that is noted in any part of the specifications or any part of the drawings, including Divisions 1, 15 and any other sections. The contractor will supply power to equipment at the voltage indicated on the drawings. The contractor will be held responsible for coordinating the equipment voltages, control equipment, wiring, and locations and type of terminations/connections and/or disconnects required to comply with the National Electrical Code, International Building Code, International Energy Conservation Code, all local codes, and the equipment manufacturer's requirements.

D. Electrical Drawings are diagrammatic in nature except where specific dimensions, or specific details are shown on the electrical, mechanical, or architectural drawings. The contractor shall refer to other drawings for exact locations of equipment, building dimensions, architectural details and conditions affecting the electrical work; however, field measurements take precedence over dimensioned drawings. The Electrical Contractor shall provide all labor and materials and all incidental elements; junction and pull boxes, filters, pull wires, connectors, support materials, fuses, disconnect switches, lamps, and labels, to install, connect, start-up and result in a complete and working system in accordance with the drawings and specifications. The contractor is responsible for coordinating the installation of all electrical work with the work of other contractors and/or trades. The electrical drawings are such that the electrical service to equipment furnished and installed under other sections of the contract documents (examples, include but are not limited to: HVAC equipment, water heaters, fans, pumps, motors, etc) is coordinated for the specified equipment only. If the equipment installed under other divisions of the contract documents is not the specified equipment it is the responsibility of the contractor to coordinate the electrical service/interface requirements with the electrical contractor.

E. Provide all wiring, connectors, fittings, connections, and all accessories for the complete installation of, and final connections to, equipment furnished under other divisions of the specifications and where indicated on the drawings or otherwise specified.

F. All safety disconnect switches shall be provided under Division 16 unless specifically noted on drawings. The electrical contractor shall furnish and install fuses that are sized in accordance to the equipment nameplate of the equipment served.

G. The contractor is responsible for obtaining all required permits and complying with all National (NEC, IBC, NFPA), State, County, and Municipal codes and regulations. This shall include, but not be limited to, the following:
1. Federal Occupational Safety and Health Act (OSHA)
2. NFPA 70 (National Electrical Code)
3. NFPA 101 (Life Safety Code)
4. Americans with Disabilities Act (ADA).
5. International Building Code (IBC).
6. International Energy Conservation Code (IECC).

H. The contractor shall keep a set of construction drawings during the length of the project on which he shall note any and all changes from the original drawings. This record set of drawings shall be updated daily.

I. Electrical Subcontractor shall submit for review by the Engineer detailed shop drawings of all material listed below. All submittal data shall be submitted at one time through the Architect. No material or equipment for which Engineer's review is required shall be delivered to the job site or installed until the Electrical Contractor has in his possession the reviewed and approved shop drawings for the particular material and/or equipment. The Electrical Contractor shall assemble, organize, prepare and review for correctness shop drawings on all materials, equipment, fixtures and devices to be used. If material submitted is the result of "value engineering" or "prior approval" changes, the submittal must contain supporting documentation of the approved changes, otherwise it will be reviewed against the specified products on these plans. The Electrical contractor shall furnish the number of copies specified by the Architect or one (1) PDF copy of shop drawings if no number is specified by the Architect. Shop drawings that are incorrectly submitted, contain errors or omissions, or not in the form and sequence specified shall be rejected as unapproved.

Shop drawings shall contain as cover page a letter by the supplying Vendor stating that the Vendor has received full contract documents and that to the best of his or her knowledge the submittal is in compliance with the contract documents and design intent including all ancillary parts and pieces required for a complete job.

Review of shop drawings in no way relieves the Contractor of his responsibility of quantity, dimensions, weights, means and methods, safety, or coordination with others.

Failure of the Contractor to submit shop drawings to the Engineer with reasonable time for review shall not entitle the Contractor to an extension of contract time. Reasonable review time is fifteen working days unless otherwise specified.

At minimum shop drawings shall be submitted for

1. Lighting fixtures
2. Lighting control systems including relay panel and automatic switches
3. Panelboards
4. Safety switches
5. Basic materials; wire, conduit, fittings, wiring devices
6. SPD's
7. Fuses

J. Requests for Substitution

Submit requests for substitution to Engineer through Architect in PDF format no fewer than ten (10) working days prior to bid time. Requests shall contain cutsheets, catalog numbers, etc. Any approval will be in writing by the Engineer. Prior approval submittals for lighting shall include adequate photometric and energy use documentation for comparison to specified.

Substituted items will not result in an increase in cost to the Owner.

K. Catalog numbers and names that appear in the specifications or on the plans may be incomplete or obsolete and are for descriptive purposes only. As such they may not indicate all of the parts, pieces and systems required for a complete and operating installation. It is the responsibility of the Electrical Contractor, the Vendor and the Supplier to review the plans, specifications and applications to determine the correct item(s) required to include all installation and support materials and systems for a complete and working installation.

2. FIRE SPREAD PREVENTION MATERIAL

A. The work shall include the requirement to install fire spread prevention material wherever the electrical contractor installs or penetrates a material (wall, etc.) to install electrical equipment or materials.

B. Fire Resistance Rating: Whenever a fire rated wall, floor, floor-ceiling or roof-ceiling assembly is shown with through-penetrations, provide materials and application procedures which have been tested and classified by UL and approved by FM for the assembly.

C. Installation shall be in accordance with the printed instructions as supplied by the manufacturer.

3. RACEWAYS/CONDUITS AND ASSOCIATED EQUIPMENT

A. The work shall include all raceways, conduits, fittings, and all other equipment required to install a raceway system. This shall include, but not limited to the following:
1. Rigid metal conduit and fittings.
2. Electrical metallic tubing and fittings.
3. Flexible metal conduit and fittings.
4. Liquid tight flexible metal conduit and fittings.
5. Non-metallic conduit and fittings.

B. Except where otherwise permitted on drawings route all conductors in conduit.

C. All signal systems shall have their wiring installed in conduit/raceways to above accessible ceiling. All cabling exposed above ceiling shall be plenum rated.

Conduit routing and device wiring for signal system components is not shown on the drawings. The contractor shall coordinate with the signal system manufacturer to determine the conduit (size and routing) and wiring requirements to circuit the equipment shown on the drawings.

D. Specified products and their areas of use shall be as described on drawings.

E. Fittings shall be steel compression type, concrete tight for all EMT raceways. For PVC raceways, use slip fittings with glue joints. For rigid galvanized steel and IMC, fittings shall be threaded galvanized iron, heavy steel, concrete tight.

F. Size conduit for conductor type installed; 1/2 inch minimum size.

G. For all empty raceways, furnish and install a nylon pull cord. The nylon pull cord shall be rated for a 200 pound force pull strength.

4 WIRE AND CABLE – 600 VOLTS AND LESS

A. Work shall include the furnishing and installing of all required wire and cable to complete the wiring and electrical system. This shall include, but not be limited to the following:
1. Building wire.
2. Wiring connections and terminations.
3. Communications cabling as specified on drawings.

B. All service entrance power cable shall be type XHHW OR THWN-2, 90 degree C, copper conductor U.N.O. Feeders and Branch Circuits Larger Than 6 AWG: Copper, stranded conductor, 600 volt insulation, THHN. Feeders and Branch Circuits 6 AWG and Smaller: Copper conductor, 600 volt insulation, THHN. 6 and 8 AWG, stranded conductor; smaller than 8 AWG, solid conductor. MINIMUM SIZE SHALL BE #12 FOR ALL WIRING ABOVE 48 VOLTS. All conductors in damp or wet locations (including below grade) shall be listed for that use, THWN-2 or equivalent.

C. All cables shall be color coded. Color coding shall be as follows:

Phase	120/240 Volt High Leg
A	Black
B	Orange
C	Blue
Neutral	White
Ground	Green

D. Each wire or cable in a feeder at its terminal points, and in each pull-box, junction box, and panel gutter through which it passes shall be identified to show the circuit number of the breaker that it connects to. Each common wire, common circuit to common loop of a system, sound system, or any signal system conductor, shall be identified.

E. All installation shall be in accordance with the NEC. All splices shall be in junction boxes and shall be electrically and mechanically secure. Where a circuit home run is shown on the plans without any conductor or raceway identification, it shall be a minimum of 2 # 12, 1 # 12 Ground, 1/2" Conduit. Place an equal number of conductors for each phase of a circuit in same raceway or cable. Splice only in junction or outlet boxes. Neatly train and lace wiring inside boxes, equipment, and panelboards. Perform continuity test on all power and equipment branch circuit conductors. Verify proper phasing connections.

5. WIRING DEVICES

A. The shall include the furnishing and installing of any and all wiring devices required to make a complete and functioning wiring system. See the drawings for symbols and descriptions of devices. Devices specified are to establish a level of quality. All devices shall be best specification grade. Equivalent devices by Pass and Seymore or Leviton are acceptable.

Color of devices shall be per Architect.

B. Duplex receptacle shall be 20 ampere, 120 volt, 2-Pole, 3-Wire, NEMA 5-20R. Unit shall be HBL #5362.

C. Ground Fault receptacle shall be HBL #5362SG.

D. Light switches other than sweep switches and low voltage button stations shall be 20 ampere, 120-277 volt. Unit shall be HBL #1221 for SPST, HBL #1223 for three-way, and HBL #1224 for Four-Way.

E. Installation shall be per NEC. Include ground wire and connection with all receptacle circuits. Quadraplex receptacles shall be two duplex receptacles installed in a two gang box. Install wall switches OFF position down. Install convenience receptacles grounding pole on top. Install devices and wall plates flush and level. Provide GFCI receptacle within 6' of any water source. GFCI receptacles shall not be used to protect non-GFCI receptacles.

F. Wiring Device Plates:
1. Provide over-sized Thermoset type cover plates for all flush mounted devices. Color shall match existing or provide at minimum selection of white, ivory, brown or gray.
2. Plates for surface mounted devices in unfinished areas shall be steel, galvanized types with beveled edges.
3. Screws securing the plate shall have flush mounted heads (when installed) with finish to match that of the plate.
4. Weather-proof plates shall be constructed with cast aluminum base plates and covers. Hinge pins, springs and screws shall be constructed of stainless steel. Covers shall comply with appropriate UL and NEC requirements for use in wet locations.

6. PANELBOARDS

A. This section includes furnishing and installing panelboards and related equipment to form a complete and functioning electrical system. This shall include, but not be limited to the following:
1. Service and distribution panelboards.
2. Lighting and appliance branch circuit panelboards.

B. Panelboards shall be as manufactured by Square D or approved equivalent by GE, Cutler Hammer or Siemens.

C. Provide cabinet front with concealed trim clamps, and hinged door with flush lock. Finish in manufacturer's standard gray enamel. Provide panelboards with bus ratings as scheduled. Provide ground bus in all panelboards. Minimum Integrated Short Circuit Rating: See drawings. Molded Case Circuit Breakers: NEMA AB 1; provide circuit breakers with integral thermal and instantaneous magnetic trip in each pole. Provide circuit breakers UL listed as Type HACR for air conditioning equipment branch circuits. All breakers shall be bolt on type.

D. Furnish and install all required materials to install and mount the panelboards to the wall shown on the drawings. Install panelboards plumb and flush with wall finishes, in conformance with NEMA PB 1.1. Provide filler plates for unused spaces in panelboards.

E. Provide typed circuit directory for each circuit breaker in each panelboard. Visual and Mechanical Inspection: Inspect for physical damage, proper alignment, anchorage, and grounding. Check proper installation and tightness of connections for circuit breakers, fusible switches, and fuses. Provide name plates for each panel and switch as described in the General Notes on the drawings.

7. SECONDARY GROUNDING

A. Work included shall include power system grounding, communication system grounding, and electrical equipment and raceway grounding and bonding. Ground electrical work in accordance with NEC Article 250, local codes as specified herein, and as shown on the drawings.

B. Install equipment grounding conductors in raceway with feeder and branch circuit conductors. Ground interior lighting fixtures with grounding conductor to rigid metal raceways serving them. Flexible metal conduit shall have a ground wire installed with the power conductors. Where connections are made to motors or equipment with flexible metal conduit, grounding conductor shall be stranded copper conductor within the conduit, bonded to the equipment and to the rigid metal raceway system. At each convenience outlet, install a grounding clip attached to the outlet box and leave a sufficient length of #12 wire with green colored insulation to connect to the grounding terminal of the receptacle.

8. TESTING

A. GUARANTEE OF WORK, EQUIPMENT AND MATERIALS
1. The complete system shall be free of faults, short circuits, grounds and open circuits. Balance loads across phases to obtain minimum neutral current in feeders and branch circuits.
2. The Electrical Contractor shall perform inspections and test as herein specified. The Electrical Contractor shall provide all material, equipment, labor and supervision to perform such tests and inspections.
3. It is the intent of these tests to assure that all tested electrical equipment and systems are operational and within industry and the manufacturer's tolerances and is installed in accordance with the design Specifications. The test and inspections shall determine suitability for energization.
Written documentation of the tests and inspections shall be provided and shall include the company name performing the work, project name, date and time of tests, weather and humidity

B. Systems and equipment are to be tested and operated to verify compliance with the requirements of the contract documents and applicable codes.
Equipment, systems, conductors and devices to be tested are as follows:
1. Power Distribution Equipment shown on the one-line (Power Riser) diagram.
a. Proper torque values on lugs and connectors.
b. Proper operation of equipment ground fault protective devices.
2. Conductors - Conductors rated 100 amperes and above.
a. Proper conductor and insulation type
b. Insulation resistance test (Megger) at 1000 volts DC for 1 Minute or per cable manufacturer specifications.
c. Minimum insulation resistance values shall not be less than fifty (50) megohms.

C. Grounding
1. Test ground resistance using the attached rod technique (ART) or the fall of potential method according to IEEE 81 at the service entrance.
2. Verify proper type and size of grounding conductors and proper ground connections.
3. If ground resistance exceeds 25 ohms or values otherwise specified in the Specifications, equipment requirements or General or Special Conditions notify the Engineer immediately. The Electrical Contractor shall be responsible for providing alternate and/or additional means of grounding to reduce the ground resistance to 25 ohms or below at no additional cost.

D. Grounding and Ground Fault Personnel Protection
a. Test ground fault receptacles and ground fault branch circuit breakers.
b. Test ten (10) percent of all 120 volt receptacle outlets for proper wiring.

E. All devices which must be adjusted or set to operate on a schedule (time clocks, program mechanisms, etc.) shall be set prior to substantial completion to operate on schedules directed by the Owner. Instruct the owner on the proper operation of these devices.

eti
ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
eti@etiservices.net

Project Manager:
Bryson Tucker PE, x101

ETI #2003-10610

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ETI ENGINEERING, LLC
No. C02936

REGISTERED PROFESSIONAL ENGINEER
No. 23558
BRYSON DANIEL TUCKER
11/06/2020

MARK	DESCRIPTION	DATE

ISSUE DATE: 11/06/2020
SOLICITATION NO.: XX-XXXX
CONTRACT NO.: XX-XXXX
FILE NUMBER: XX-X-XXXX

DESIGNED BY: Designer
DRAWN BY: BDT
CHECKED BY: BDT
SUBMITTED BY: BDT
SIZE: ANSI D
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
3030 Peachtree Road NW, Suite 500
Peachtree Corners, GA 30092
Phone (678) 336-7240
Fax (678) 336-7744
COA NO: 12000501

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

ELECTRICAL SPECIFICATIONS

SHEET ID
E-002
SHEET 3 OF 7

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

ELECTRICAL DEMOLITION PLAN LEGEND:

EXISTING ELECTRICAL SYSTEM ELEMENT BEING DEMOLISHED DENOTED BY HATCHING. REMOVE DEVICE, BOX, CONDUCTOR AND CONDUIT TO SOURCE U.N.O.. FOR SWITCH LOCATIONS RE-USE EXISTING LOCATION FOR NEW SWITCHING INDICATED ON RENOVATION PLANS, WHERE NO NEW SWITCH IS INDICATED PROVIDE BLANK PLATE.

EX EXISTING TO REMAIN

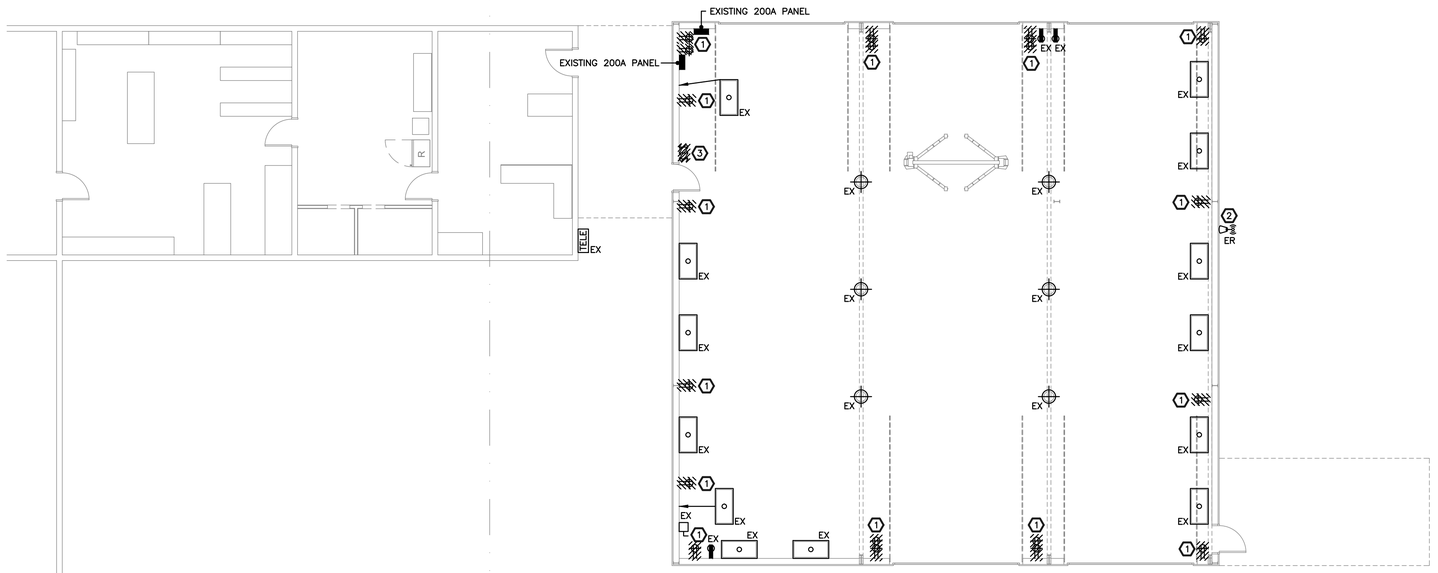
ER EXISTING TO BE RELOCATED. SEE RENOVATION PLANS FOR NEW LOCATION

ELECTRICAL DEMOLITION PLAN KEYNOTES:

1. REMOVE EXISTING 120V RECEPTACLE ONLY. LEAVE BOX, CONDUCTOR AND CONDUIT FOR INSTALLATION OF NEW DEVICE. SEE RENOVATION PLAN.
2. EXISTING ANTENNA TO BE RELOCATED. COORDINATE WITH OWNER AND RELOCATE AS DIRECTED.
3. ELECTRICAL CONTRACTOR MAY RE-USE EXISTING BACKBOX AND RACEWAY FOR INSTALLATION OF NEW SWITCHING. SEE RENOVATION PLAN.

GENERAL ELECTRICAL DEMOLITION PLAN NOTES:

1. ELECTRICAL DEMOLITION GENERALLY INCLUDES REMOVAL OF EXISTING ELECTRICAL DEVICES FROM WALLS AND CEILINGS BEING DEMOLISHED INCLUDING BACKBOXES, CONDUITS, AND CONDUCTORS BACK TO SOURCE PANEL. WHERE ONLY PART OF A CIRCUIT IS BEING REMOVED, REWORK CIRCUITS BY EXTENSION AND RECONNECTION TO CONTINUE REMAINING CIRCUIT IN SERVICE BEYOND THE DEMOLITION AREA.
2. PROVIDE ALL NEW WORK AND WORK REQUIRED TO MODIFY EXISTING CONDITIONS WHERE TO CONTINUE IN OPERATION.
3. PROVIDE REVISED CIRCUIT DIRECTORIES IN EXISTING PANELBOARDS TO INDICATE ALL LOADS; EXISTING, NEW AND MODIFIED.
4. CAREFULLY REVIEW ARCHITECTURAL DEMOLITION PLANS. EXAMINE WORK TO BE DONE AND PROVIDE ALL ELECTRICAL WORK REQUIRED FOR DEMOLITION, THIS INCLUDES RELOCATION, REROUTING, ETC OF ELECTRICAL CIRCUITS WHETHER SPECIFICALLY INDICATED ON ELECTRICAL PLANS OR NOT. CONTRACTOR IS CAUTIONED TO VISIT SITE PRIOR TO BID AND INCLUDE IN BID RELOCATION OF ALL EXISTING ELECTRICAL WORK AS REQUIRED FOR THE NEW ADDITION.
5. REMOVE ALL ELECTRICAL DEVICES FROM WALLS BEING DEMOLISHED.
6. REMOVE ALL LIGHT FIXTURES IN AREAS WHERE NEW LIGHTING IS PROVIDED INCLUDING CONDUIT, BOXES AND CONDUCTORS.
7. INDICATE ON RECORD DRAWINGS CIRCUITS FOR ALL ELECTRICAL DEVICES (INCLUDING LIGHTS) IN RENOVATION AREA.
8. CONTRACTOR SHALL COORDINATE WITH RENOVATION DRAWINGS FOR IDENTIFICATION OF EXISTING DEVICES AND FIXTURES TO BE RELOCATED. ALL RELOCATED DEVICES AND FIXTURES SHALL BE DENOTED WITH "ER" ON RENOVATION DRAWINGS.



1 ED-101 ELECTRICAL DEMOLITION PLAN

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

8 0 8 16

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

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

eti
ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
eti@etiservices.net

Project Manager:
Bryson Tucker PE, x101

ETI #2003-10610

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ETI ENGINEERING, LLC
No. C02936

REGISTERED PROFESSIONAL ENGINEER
BRYSON DAVID TUCKER
No. 23558
11/06/2020

MARK	DESCRIPTION	DATE

DESIGNED BY: Designer
DRAWN BY: TWO
CHECKED BY: BDT
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: 11/06/2020
SOLICITATION NO.: XX-XXXX
CONTRACT NO.: CONTRACT NUMBER
FILE NUMBER: XX-X-XXXX
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
3030 Peachtree Road NW Suite 500
Peachtree Corners, GA 30092
Phone (770) 325-9240
Fax (678) 336-7214
Job No. 120503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

ELECTRICAL DEMOLITION PLAN

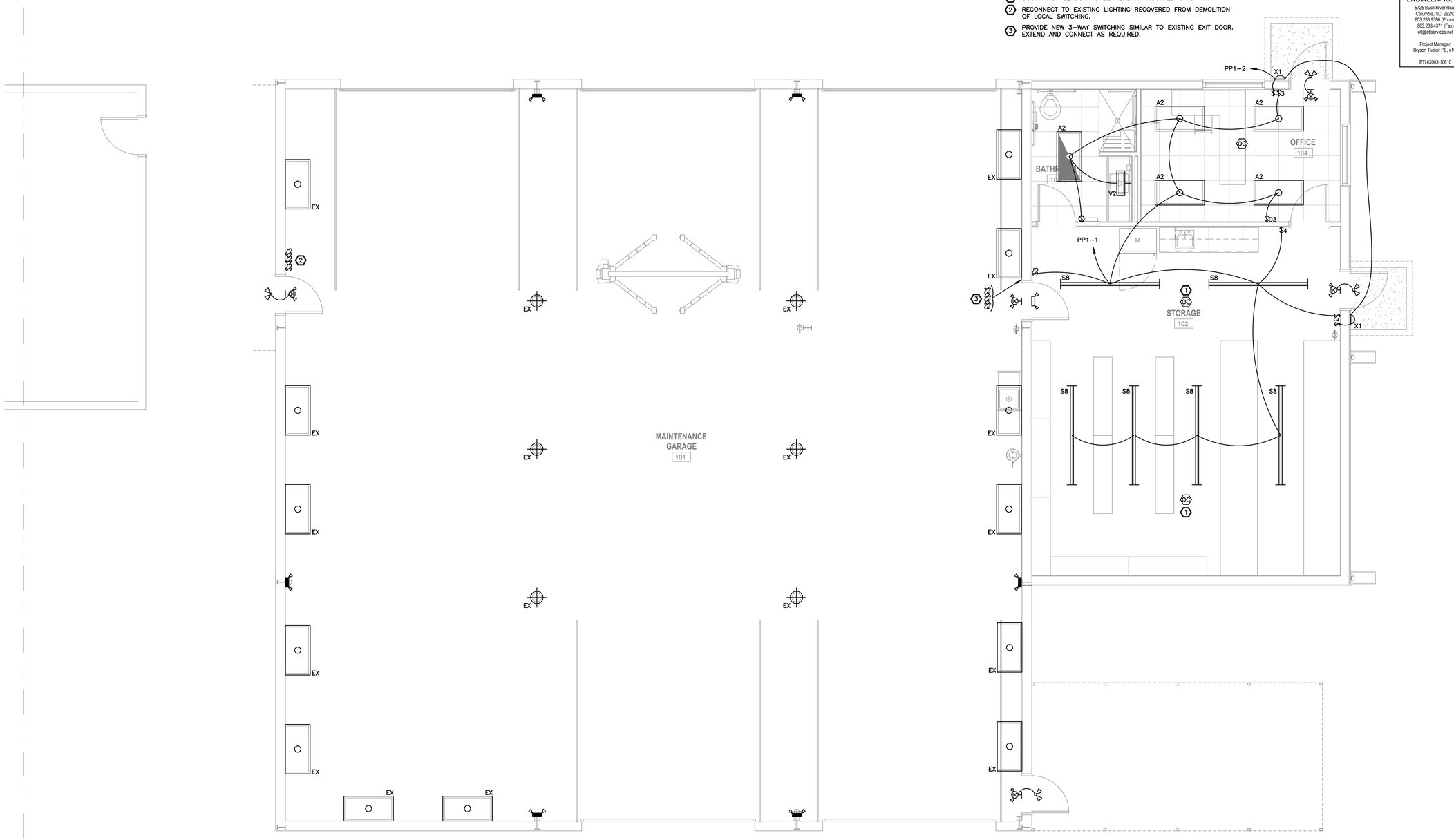
SHEET ID

ED-101

SHEET 4 OF 7

LIGHTING PLAN KEYNOTES:

1. OCCUPANCY SENSOR TO BE PENDANT MOUNTED 9'-0" AFF.
2. RECONNECT TO EXISTING LIGHTING RECOVERED FROM DEMOLITION OF LOCAL SWITCHING.
3. PROVIDE NEW 3-WAY SWITCHING SIMILAR TO EXISTING EXIT DOOR. EXTEND AND CONNECT AS REQUIRED.



1 E-101 LIGHTING PLAN
APPROXIMATE SCALE: 1/4" = 1'-0"

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

eti
ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
eti@etiservices.net

Project Manager:
Bryson Tucker PE, x101

ETI #2003-10610

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ETI ENGINEERING, LLC
No. C02936

REGISTERED PROFESSIONAL ENGINEER
No. 23558
BRYSON DUSTIN TUCKER
11/06/2020

MARK	DESCRIPTION	DATE

DESIGNED BY:	Designer
DRAWN BY:	TM/D
CHECKED BY:	BDT
SUBMITTED BY:	
SIZE:	ANSI D
ISSUE DATE:	11/06/2020
SOLICITATION NO.:	SOL-XX-XXX
CONTRACT NO.:	CONTRACT NUMBER
FILE NUMBER:	XX-X-XXXX
FILE NAME:	

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
3030 Peachtree Road NW, Suite 550
Peachtree Corners, GA 30092
Phone (770) 325-7740
Fax (678) 336-7214
Job No. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

LIGHTING PLAN

SHEET ID

E-101

SHEET 5 OF 7

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

POWER AND COMMUNICATIONS PLAN KEYNOTES:

1. RE-USE BOX, CONDUCTOR, AND CONDUIT RECOVERED FROM DEMOLITION TO INSTALL NEW DEVICE SHOWN.
2. 120V POWER CONNECTION FOR BATTERY CHARGER CABINET. CONNECT AS REQUIRED BY MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGHING IN.
3. PROPOSED NEW LOCATION FOR EXISTING ANTENNA. COORDINATE EXACT LOCATION WITH OWNER. EXTEND AND RECONNECT AS REQUIRED TO MAKE OPERABLE.

EXISTING 200A PANEL

EXISTING 200A PANEL

TELE EX

MAINTENANCE GARAGE 101

BATHROOM 103

OFFICE 104

STORAGE 102

PP1 PP1-3 PP1-4 PP1-5 PP1-6 PP1-7 PP1-8 PP1-10 PP1-11

EX

1 POWER AND COMMUNICATIONS PLAN
E-102 APPROXIMATE SCALE: 1/4" = 1'-0"

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

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID

eti
ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
eti@etiservices.net
Project Manager:
Bryson Tucker PE, x101
ETI #2003-10610

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ETI ENGINEERING, LLC No. C02936

REGISTERED PROFESSIONAL ENGINEER BRYSON DUKE TUCKER No. 23558 11/06/2020

MARK	DESCRIPTION	DATE

DESIGNED BY:	Designer
DRAWN BY:	TWO
CHECKED BY:	BDT
SUBMITTED BY:	
SIZE:	ANSI D
ISSUE DATE:	11/06/2020
SOLICITATION NO.:	SOL-XX-XXX
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FILE NUMBER:	XX-X-XXXX
FILE NAME:	

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
3030 Peachtree Road NW, Suite 400
Peachtree Corners, GA 30092
Phone: 770.209.1420
Fax: (678) 336-2714
JOB NO: 1205053

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

POWER AND COMMUNICATIONS PLAN

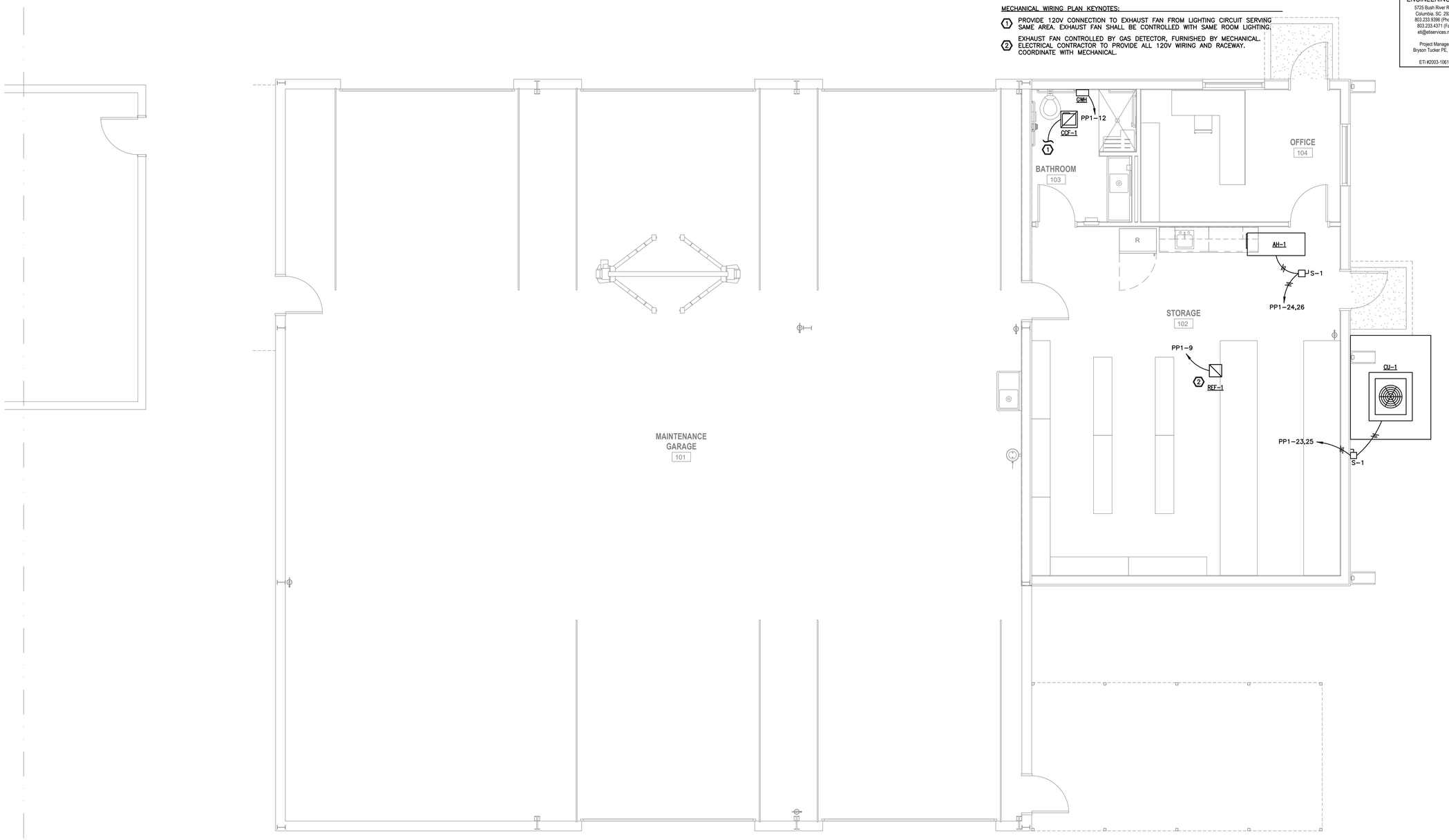
SHEET ID

E-102

SHEET 6 OF 7

MECHANICAL WIRING PLAN KEYNOTES:

1. PROVIDE 120V CONNECTION TO EXHAUST FAN FROM LIGHTING CIRCUIT SERVING SAME AREA. EXHAUST FAN SHALL BE CONTROLLED WITH SAME ROOM LIGHTING.
2. EXHAUST FAN CONTROLLED BY GAS DETECTOR, FURNISHED BY MECHANICAL. ELECTRICAL CONTRACTOR TO PROVIDE ALL 120V WIRING AND RACEWAY. COORDINATE WITH MECHANICAL.



1 E-103 MECHANICAL WIRING PLAN
APPROXIMATE SCALE: 1/4" = 1'-0"

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

ETI ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
eti@etiservices.net

Project Manager:
Bryson Tucker PE, x101

ETI #2003-10610

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
ETI ENGINEERING, LLC
No. C02936

REGISTERED PROFESSIONAL ENGINEER
BRYSON DAVID TUCKER
No. 23558
11/06/2020

MARK	DESCRIPTION	DATE

DESIGNED BY: Designer
DRAWN BY: TMYO
CHECKED BY: BDT
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: 11/06/2020
SOLICITATION NO.: SOL:XX-XXX
CONTRACT NO.: CONTRACT NUMBER
FILE NUMBER: XX-X-XXXX
FILE NAME:

NEWBERRY COUNTY
SOUTH CAROLINA
1309 COLLEGE STREET

POND
3030 Peachtree Road NW, Suite 400
Peachtree Corners, GA 30092
Phone (678) 336-7140
Fax (678) 336-7214
Job No. 1200503

NEWBERRY COUNTY
FLEET MAINTENANCE FACILITY
NEWBERRY COUNTY, SC

MECHANICAL WIRING PLAN

SHEET ID
E-103
SHEET 7 OF 7

ORIGINAL SHEET SIZE: 22" X 34"

ISSUED FOR BID