

Invitation to Bid

20150512 E.B. WILSON DOORS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor, Sumner County Board of Education, 1500 Airport Road, Gallatin, TN 37066 for 20150512 E.B. WILSON DOORS until 9:00 a.m. CDT May 12, 2015. Bid responses will be opened at that time, taken under advisement and evaluated. Should you have any questions please contact Neil Miller – Carpentry Supervisor at neil.miller@sumnerschools.org. All proposals are subject to the Board of Education's conditions and specifications which are available from Vicky Currey, Purchasing Supervisor (615) 451-6560. All bids can be viewed on line at www.sumnerschools.org.

NOTICE TO RESPONDENTS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor in the SUPPORT SERVICE FACILITY CONFERENCE ROOM, Sumner County Board of Education, 1500 Airport Road Gallatin, TN 37066. They will be received until **9:00 A.M. Local Time MAY 12, 2015** for **20150512 E.B. WILSON DOORS**, at which time the responses will be opened, taken under advisement and evaluated. ***BIDS WILL BE POSTED ON www.sumnerschools.org***

GENERAL REQUIREMENTS AND CONDITIONS

1. The Sumner County Board of Education reserves the right to accept or reject any and/or all responses in whole or in part, and to waive informalities therein.
2. Any responses received after the scheduled closing time for the receipt for responses will not be considered.
3. If a mistake is discovered after the responses are received, only the Sumner County Board of Education may allow the respondent to withdraw the entire response.
4. Partial payments will not be approved unless justification for such payment can be shown. Terms will be net 30 days.
5. Payment will not be made until the said **20150512 E.B. WILSON DOORS** are inspected and approved as meeting all specifications by persons appointed by the Sumner County Board of Education.
6. Responses submitted must be in a sealed envelope and marked on the outside as follows:
RESPONSE: 20150512 E.B. WILSON DOORS
DEADLINE: 9:00 A.M.; MAY 12, 2015
7. Facsimile responses will not be considered.
8. If a successful bidder violates any terms of their bid, the contract, school board policy or any law they may be disqualified from bidding for a period of two years for minor violations or longer for major violations. Bids from disqualified bidders will not be accepted during the period of disqualification.
9. Prices quoted on the response (if any) are to be considered firm and binding until the said **20150512 E.B. WILSON DOORS** are in the possession of the Sumner County Board of Education.
10. No purchase or contract is authorized or valid until the issuance of a Board Purchase Order in accordance with Board Policy. No Board Employee is authorized to purchase equipment, supplies or services prior to the issuance of such a Purchase Order.
11. Any deviation from these stated terms, specifications and conditions must be coordinated with and approved in writing by the Purchasing Supervisor, Vicky Currey (615) 451-6560.
12. All bids that exceed \$25,000 must have the Company Name, License Number, Expiration Date thereof and License Classification of Contractor listed on outside of sealed envelope. As required by State of Tennessee Code Annotated 62-6-119.
13. The awarded bidder will be required to post a performance and payment bond in the amount of 25% of the contract price if it exceeds \$100,000 as stated by State of Tennessee Code Annotated 12-4-201.
14. If the project cost in excess of \$25,000 a performance bond must be secured by the requesting party in an amount equal to the market improvement value.

20150512 E.B. WILSON DOORS

The Sumner County Board of Education, herein known as "School System", is soliciting bids to the purchase and installation of doors at the E.B. Wilson School. The bid will include materials and labor to complete the installation.

Jobsite: E.B. Wilson High School
695 East Main Street
Gallatin, TN 37066

Contractor Obligations:

- Shall provide and obtain all necessary materials, equipment and labor.
- Shall provide and obtain all necessary permits with Local, County, etc. agencies as required by law.
- Shall schedule all necessary inspections with Local, County, etc. agencies as required by law.
- Shall strictly adhere to engineered drawings. The School System reserves the right to withhold partial or all payment until the work is completed to the specifications and satisfaction of the School System. Any work not completed to specifications will be the Contractor's sole responsibility and expense to redo.
- Shall provide Worker's Compensation Insurance as required by Tennessee State Law. The Contractor shall prove compliance with Public Chapter No. 587, T.C.A. 49-5-413(d), criminal background check, and provide a Drug Free Workplace Affidavit.
- Shall dispose of all generated waste materials in compliance with all Local, State and Federal guidelines, regulations, and requirements.
- Shall have properly trained and experienced staff to facilitate the specified services.

Scope of Work

The School System is updating E.B. Wilson High School to meet new requirements per the Fire Marshall code. The attached, stamped blueprint reflects the removal of existing windows to be replaced with exterior doors to meet the new code. All specifications listed on the stamped blueprints are to be strictly followed. The vendor, at its' sole expense, will be responsible for any deviation from the stamped drawings. The School System shall not provide copies of the blueprints. It is the sole responsibility of the vendor to print the stamped blueprints.

A mandatory pre-bid meeting will be held, at the jobsite, on May 5, 2015 @ 10:00 a.m. The School System will have a single set of plans available at the jobsite for review. The vendor must come prepared to take any and all necessary field measurements. The vendor must provide their own equipment for measurements.

SUMNER COUNTY BOARD OF EDUCATION

Purchasing Department
1500 Airport Road
Gallatin, TN 37066

COMPANY NAME _____

ADDRESS _____

TELEPHONE _____

EMAIL _____

AUTHORIZED COMPANY
REPRESENTATIVE _____ *SIGNATURE*

AUTHORIZED COMPANY
REPRESENTATIVE _____ *PRINTED*

DATE _____

BID TITLE 20150512 E.B. WILSON DOORS

DEADLINE MAY 12, 2015 @ 9:00 A.M.

BID AMOUNT \$ _____

BID GOOD THRU _____

NOTES: _____



STATE OF TENNESSEE
DEPARTMENT OF COMMERCE AND INSURANCE
STATE FIRE MARSHAL'S OFFICE
CODES ENFORCEMENT SECTION
500 James Robertson Parkway
Tenth Floor, Davy Crockett Tower
Nashville, Tennessee 37243-1162
PHONE: 615-741-7190 FAX: 615-253-3267

April 7, 2015

James Bailey
Johnson + Bailey, P.C.
100 E. Vine Street, Suite 700
Murfreesboro, Tennessee 37130

RE: Approval of Plans
TFM #18058
Project #2015-025-19-02
E.B. Wilson Building
685 E. Main Street
Gallatin, Tennessee 37066
Sumner County

**THESE PLANS AND SPECIFICATIONS
ARE REQUIRED TO BE KEPT ON THE
JOB SITE UNTIL A FINAL CERTIFICATE
OF OCCUPANCY OR PROJECT
COMPLETION FORM IS ISSUED BY
THIS OFFICE.**

**No alterations, deletions, additions or
modifications of any kind are allowed to this
approved set without written permission
of this office.**

TENNESSEE STATE FIRE MARSHAL'S OFFICE

Site
Job

Dear James Bailey:

The plans, specifications and/or addenda received by our office for the above referenced project have been reviewed for compliance with the minimum standards for fire prevention, fire protection, and building construction safety (Rule 0780-02-02-.01) as required by the 2006 International Building Code (excluding Chapters 11 and 27), 2006 International Mechanical Code, 2006 International Fire Code, the 2006 NFPA 101 Life Safety Code [Rule 0780-2-2-.01], 2008 NFPA 70 National Electrical Code [Rule 0780-02-01-.02], and the following standards for the enforcement of the Tennessee Public Building Accessibility Act -2010 ADA Standards for Accessible Design. Plans approval does not certify compliance with either the State or Federal Statute referenced above.

Plans are approved with the following Stipulation(s), Note(s), and Field Verification(s), if applicable. Please note that stipulations must be satisfied by contractual documents prior to a Certificate of Occupancy being issued by the Codes Enforcement Officer.

This approval does not relieve the designing architect or engineer, contractor, or owner of responsibility for correcting plans or construction found in noncompliance with applicable codes. [Rule 0780-2-3.05(5), statutory authority TCA 68-120-204(a)(1)].

We are sending you an approved set of plans which, under Rule 0780-2-3.05(4), are required to be kept at the job site. The approved plans shall be placed on the job site prior to the

commencement of construction and shall be retained on the job site until a certificate of occupancy has been issued by the Division per Rule 0780-02-03-05. If these plans are not on the job site, a stop work order may result.

All field Change Orders must be submitted to this office for review and approval.

Requests for inspection should be directed to the Codes Enforcement Section at 615-741-7190. A Certificate of Occupancy (CO) is required prior to occupancy of this project. [Rule 0780-02-03-10(1), statutory authority TCA 68-120-102].

If

you

ha

Change of Use

E. B. Wilson Building

Business to Educational

umner County Board of Educ on

Del R. Phillips III, Ph.D. - Director of Schools

Andy Danels, Chairman
Beth Cox, Vice-Chairman
Alice Bachman
Tim Brewer
David A. Brown
Patricia H. Brown

Jeff Cordell
Dr. Nancy Glover
Glen Gregory
Tammy Hayes
Ted Wlse

Johnson + Bailey Architects P.C.

Consultants:
Entech Engineering, Inc.

Index

Architectural

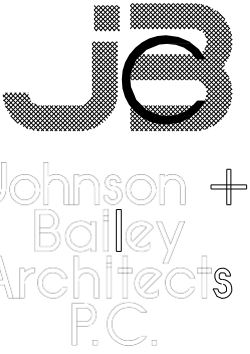
A0.1	PROJECT DATA SHEET
A1.1	LIFE SAFETY PLAN
A2.1	FLOOR PLAN
A3.1	LARGE SCALE FLOOR PLAN
A4.1	REFLECTED CEILING PLAN
A7.1	WALL SECTIONS/WINDOW ELEVATIONS

H.V.A.C.

- MD.1 H.V.A.C. DEMO FLOOR PLAN
- M1.1 H.V.A.C. FLOOR PLAN
- M2.1 H.V.A.C. DETAILS & SPECIFICATIONS

Electrical **ati**

- E1.1 LIGHTING AND POWER/SYSTEMS FLOOR PLAN
- E1.2 EXISTING/NEW FIRE ALARM FLOOR PLAN
- E2.1 ELECTRICAL DETAILS
- E3.1 ELECTRICAL PANELBOARDS AND RISER DIAGRAM
- E4.1 ELECTRICAL FIXTURE SCHEDULE/NOTES/LEGEND
- E4.2 ELECTRICAL SPECIFICATIONS



City Center
100 East Vine St.
Martinsboro Tennessee
37130
615-890-4560
Fax: 615-890-4564

Change of Use
business to Educational

E.B.WILSON
BUILDING

Sumner County
Board of Education

REVISION	DATE
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NOTES:



Edward Carr

Edward Carr
2015.04.07
15:09:34
-05'00'

FIRE STOPPING REQUIREMENT

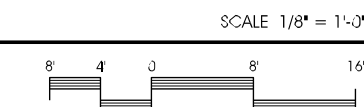
Fire stopping methods and materials employed on the job site may not deviate from the approved systems detailed within this approved set.

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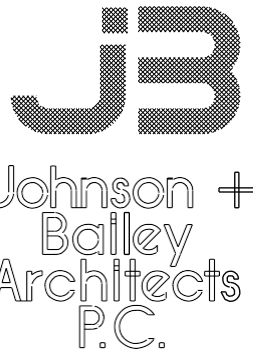


PROJECT NO.	1407
DATE	02/18/15
DRAWN BY	C.A.L.
CHECKED BY	J.H.B.

13 14 15 16 17 18
19 20 21 22 23 24
25 26 27 28 29 30



PROJECT NO. 1407
DATE 02/18/15
DRAWN BY C.A.L.
CHECKED BY J.H.B.



City Center
100 East Vine St
Memphis Tennessee
37130
615-890-4560
Fax: 615-890-4564

Change of Use
Business to Educational

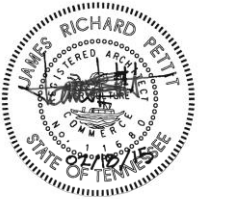
E.B.WILSON
BUILDING

Sumner County
Board of Education

REVISION DATE

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PROJECT NO. 1407
DATE 02/18/15
DRAWN BY C.A.L.
CHECKED BY J.H.B.

A2.1

GENERAL NOTES

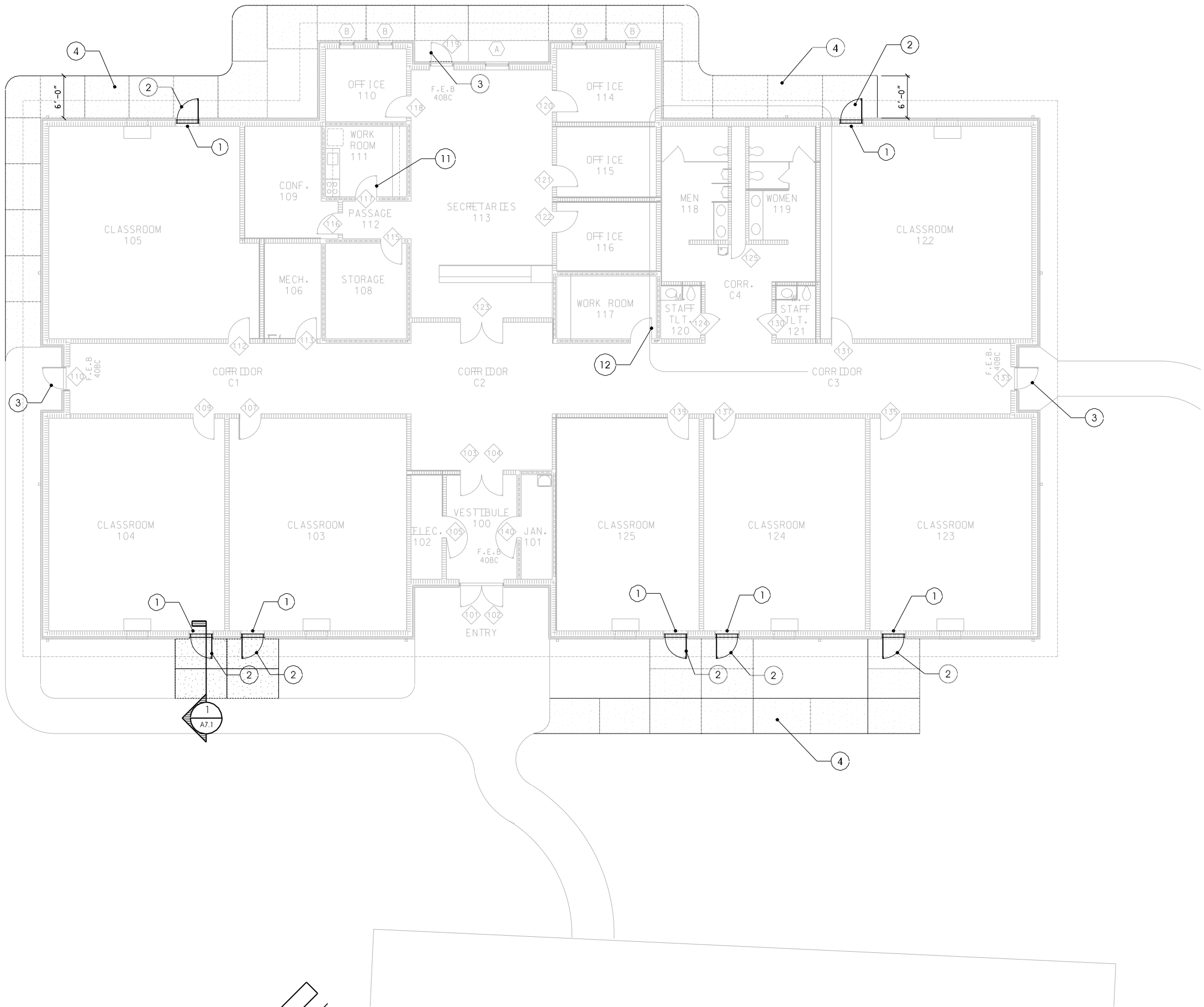
- REPAIR EXISTING FLOORS, BASE, AND WALLS WHERE MECHANICAL AND ELECTRICAL ITEMS ARE REMOVED OR ADDED TO MATCH EXISTING CONSTRUCTION.
- REPAIR EXISTING SURFACES DAMAGED DURING INSTALLATION OF NEW CONSTRUCTION TO MATCH ADJACENT EXISTING CONSTRUCTION.
- REFER TO M/P/E DRAWINGS FOR REMOVAL AND DISPOSAL OF EXISTING M/P/E ITEMS AND INSTALLATION OF NEW ITEMS.

DEMOLITION/RENOVATION NOTES

- REMOVE AND DISPOSE OF EXISTING HOLLOW METAL WINDOW, INCLUDING ALL BRICK/CMU BELOW WINDOW TO ALLOW FOR INSTALLATION OF NEW DOOR. REMOVE AND DISPOSE OF PORTION OF C.M.U. AS REQUIRED FOR INSTALLATION OF NEW CONC. SIDEWALK.
- INSTALL NEW 3'-0" X 7'-2" DK. BRONZE ANOD. ALUMINUM STOREFRONT ENTRANCE DOOR IN ALUMINUM STOREFRONT ENTRANCE FRAMING. DOOR SHALL BE WIDE STYLE WITH VERTICAL AND TOP RAILS OF 5" AND BOTTOM RAIL OF 10" WITH 5/8" INSULATED GLAZING IN TRIFAB 451 FRAMING SYSTEM AS MANUFACTURED BY KAWNEER. HARDWARE IS TO BE PROVIDED BY STOREFRONT MANUFACTURER AS FOLLOWS:
1 - CONTINUOUS HINGE
1 - LATCH PADDLE DEVICE
1 - CLOSER
1 - SET WEATHERSTRIPPING
1 - THRESHOLD
- REMOVE AND RETURN TO OWNER EXISTING LEVER HARDWARE TO DOORS 110, 119, AND 133. REPLACE WITH NEW HARDWARE BY VON DUPRIN (U.N.O.) AT EACH DOOR AS FOLLOWS:
1 - RIM EXIT DEVICE 99L-996L R&V 626
1 - GLASS BEAD KIT 99GBK-R SP28
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- PROVIDE AND INSTALL .36" GRAB BAR TO WALL AT BACK OF WATER CLOSET AT 36" ABOVE FINISHED FLOOR TO TOP OF GRIPPING SURFACE AT LOCATION INDICATED. GRAB BAR SHALL BE BOBRICK MODEL # B6806 SATIN FINISH. RELOCATE PAPER TOWEL DISPENSERS AS REQUIRED TO INSURE THAT MOUNTING HEIGHT DOES NOT EXCEED 48".
- RELOCATE MIRRORS SO THAT BOTTOM OF REFLECTIVE SURFACE DOES NOT EXCEED 40" ABOVE FINISH FLOOR.
- ROUT BOTTOM OF EXISTING APRON AT VANITY TO PROVIDE 2'-3" CLEAR KNEE SPACE BELOW.
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1 EA. LOCKSET AU 5408LN 626 BY YALE
1 EA. CLOSER 1461 REG/PA AL BY LCN
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1 EA. STOP AS REQUIRED BY HAGER
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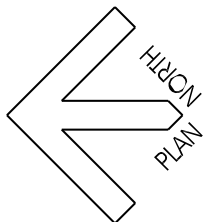
WALL LEGEND & NOTES

- EXISTING C.M.U 1-HOUR FIRE WALL
- EXISTING CONCRETE MASONRY UNIT WALL
- EXISTING C.M.U./BRICK VENEER EXTERIOR WALL



FLOOR PLAN

SCALE 1/8" = 1'-0"





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Change of Use
Business to Educational

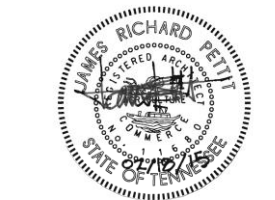
E.B.WILSON
BUILDING

Sumner County
Board of Education

REVISION DATE

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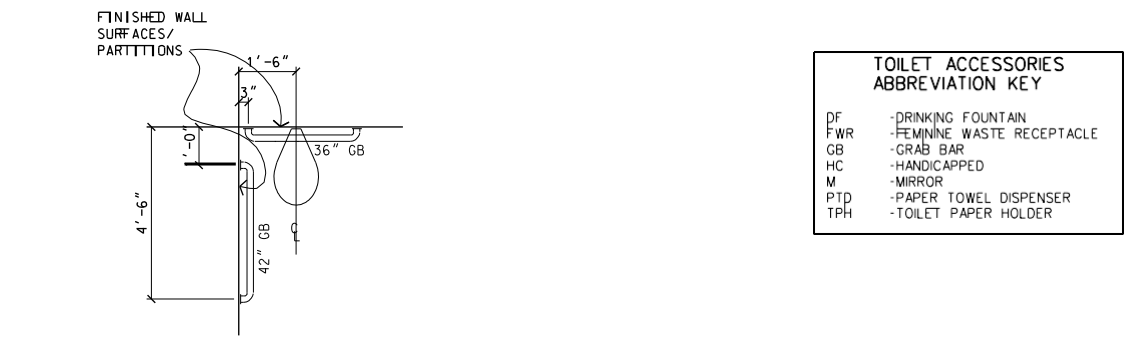
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GENERAL NOTES

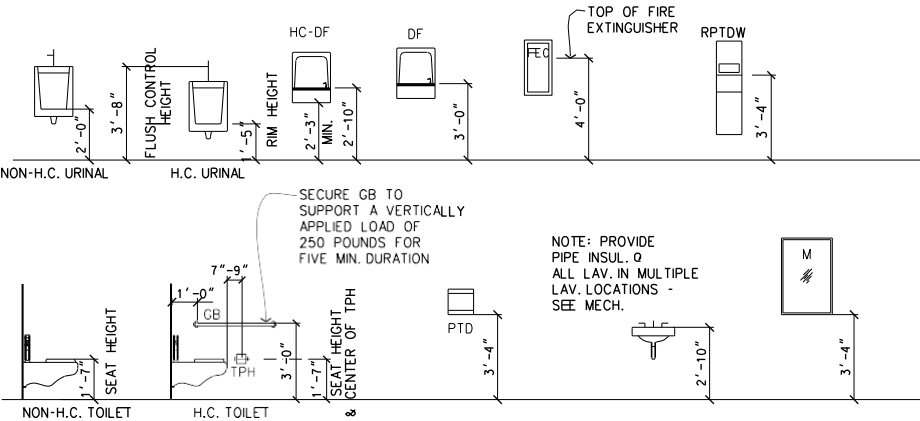
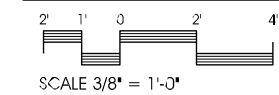
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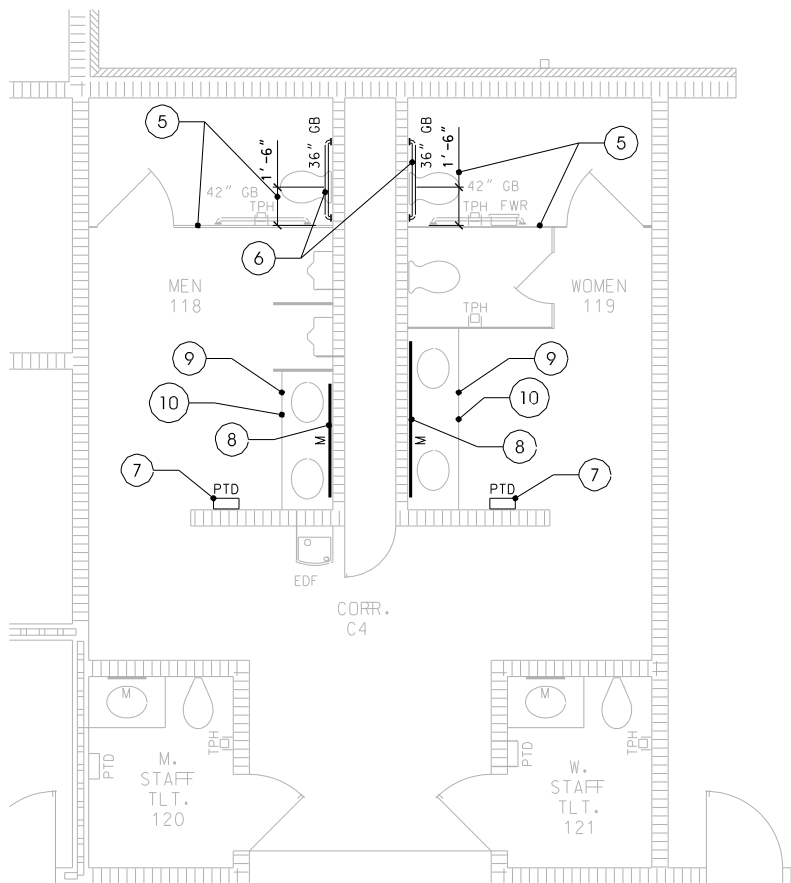
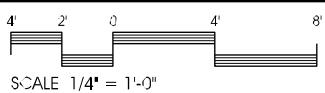


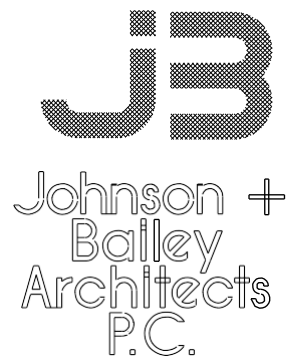
PLAN HC GRAB BARS



TYPICAL MOUNTING HEIGHTS -
TOILET FIXTURES & DIV. 10 ACCESSORIES

LARGE SCALE FLOOR PLAN





City Center
100 East Vine St
Martinsboro, Tennessee
37130
615-890-4560
Fax: 615-890-4564

Change of Use
Business to Educational

E.B.WILSON
BUILDING

Sumner County
Board of Education

REVISION	DATE
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NOTES:

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CHECKED BY	J.H.B.

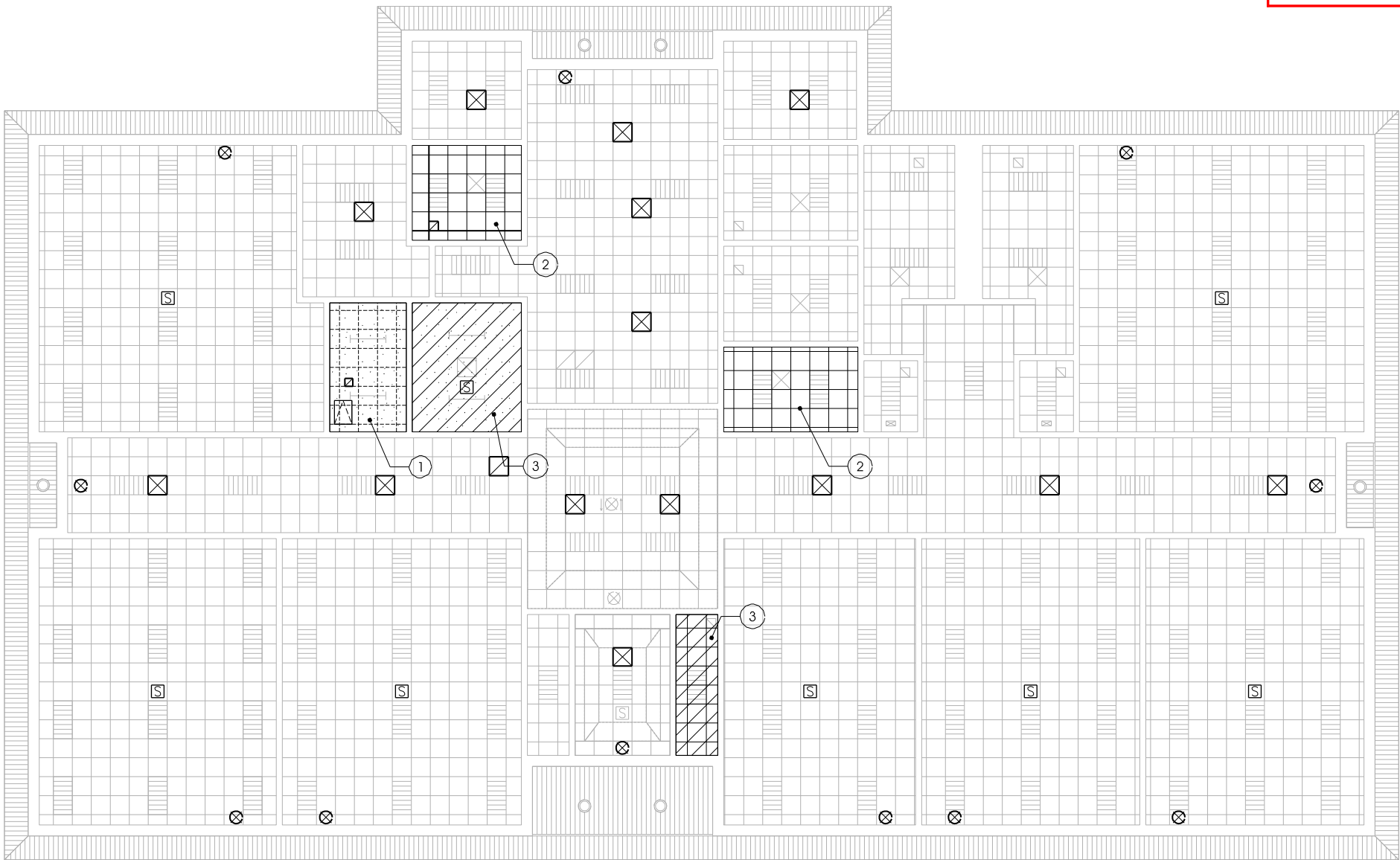
RCP DEMOLITION NOTES

- 1

REMOVE AND DISPOSE OF EXISTING LAY-IN CEILING GRID AND PANELS. INSTALL 2 LAYERS OF 5/8" TYPE "X" GYPSUM WALLBOARD TO THE UNDER-SIDE OF THE WOOD TRUSSES (OR RESILIENT CHANNELS AND 1 LAYER OF 5/8" TYPE "C" GYPSUM WALLBOARD). INSTALL INSULATED FIRE-RATED CEILING ACCESS PANEL MODEL IT SERIES 22X30 BY NYSTROM AT EXISTING LADDER. REFER TO MPE DRAWINGS FOR REMOVAL OF MECHANICAL/ELECTRICAL ITEMS.
- 2

REMOVE AND DISPOSE OF EXISTING LAY-IN CEILING GRID AND PANELS. INSTALL 2 LAYERS OF 5/8" TYPE "X" GYPSUM WALLBOARD TO THE UNDER-SIDE OF THE WOOD TRUSSES (OR RESILIENT CHANNELS AND 1 LAYER OF 5/8" TYPE "C" GYPSUM WALLBOARD). INSTALL NEW LAY-IN CEILING GRID AND PANELS.
- 3







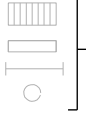





VERIFY THAT EXISTING GYPSUM WALLBOARD AT UNDERSIDE OF WOOD TRUSSES CONSISTS OF 2 LAYERS OF 5/8" TYPE "X" GYPSUM WALLBOARD. IF NOT, ADD LAYER(S) AS INDICATED TO MEET FIRE RATING REQUIREMENTS (2 LAYERS 5/8" TYPE "X" OR 1 LAYER 5/8" TYPE "C" ON RESILIENT CHANNELS). REMOVE AND DISPOSE OF EXISTING CEILING GRID AND PANELS AT LOCATION INDICATED AND REPLACE WITH NEW GRID AND PANELS.

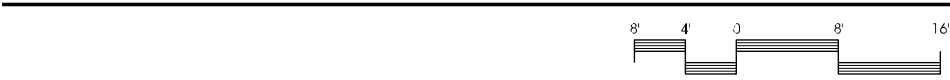


REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"

A4.1

REFLECTED CEILING PLAN LEGEND	
	NEW SUPPLY AIR DIFFUSER
	NEW RETURN AIR GRILLE/EXHAUST
	EXISTING SUPPLY AIR DIFFUSER
	EXISTING RETURN AIR GRILLE/EXHAUST
	NEW SMOKE DETECTOR
	EXISTING SMOKE DETECTOR
	EXISTING LIGHT FIXTURES
	NEW CEILING MOUNTED EXIT LIGHT
	EXISTING CEILING MOUNTED EXIT LIGHT
	EXISTING 2 X 2 CEILING GRID AND PANELS
	NEW EXPOSED GYPSUM BOARD CEILING (EXISTING ACOUSTICAL LAY-IN REMOVED)
	EXISTING GYPSUM BOARD CEILING - ONE HOUR FIRE RATED, (2) LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD ATTACHED TO UNDERSIDE OF WOOD TRUSS (FIELD VERIFY)





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Change of Use
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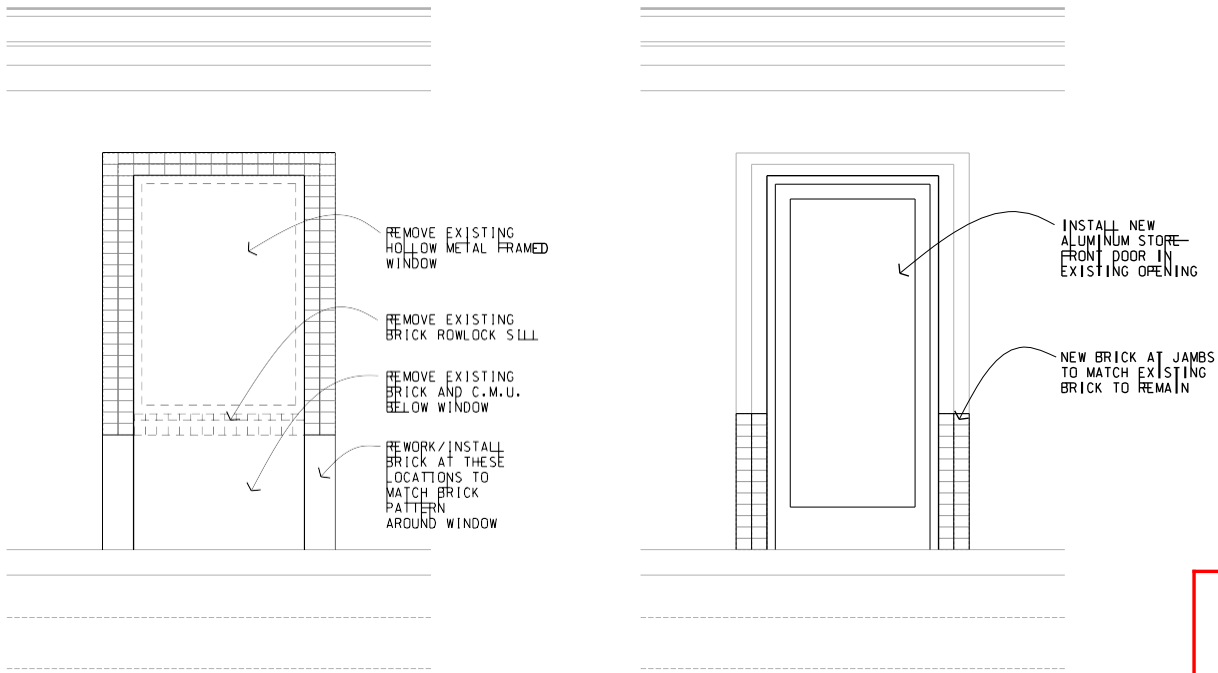
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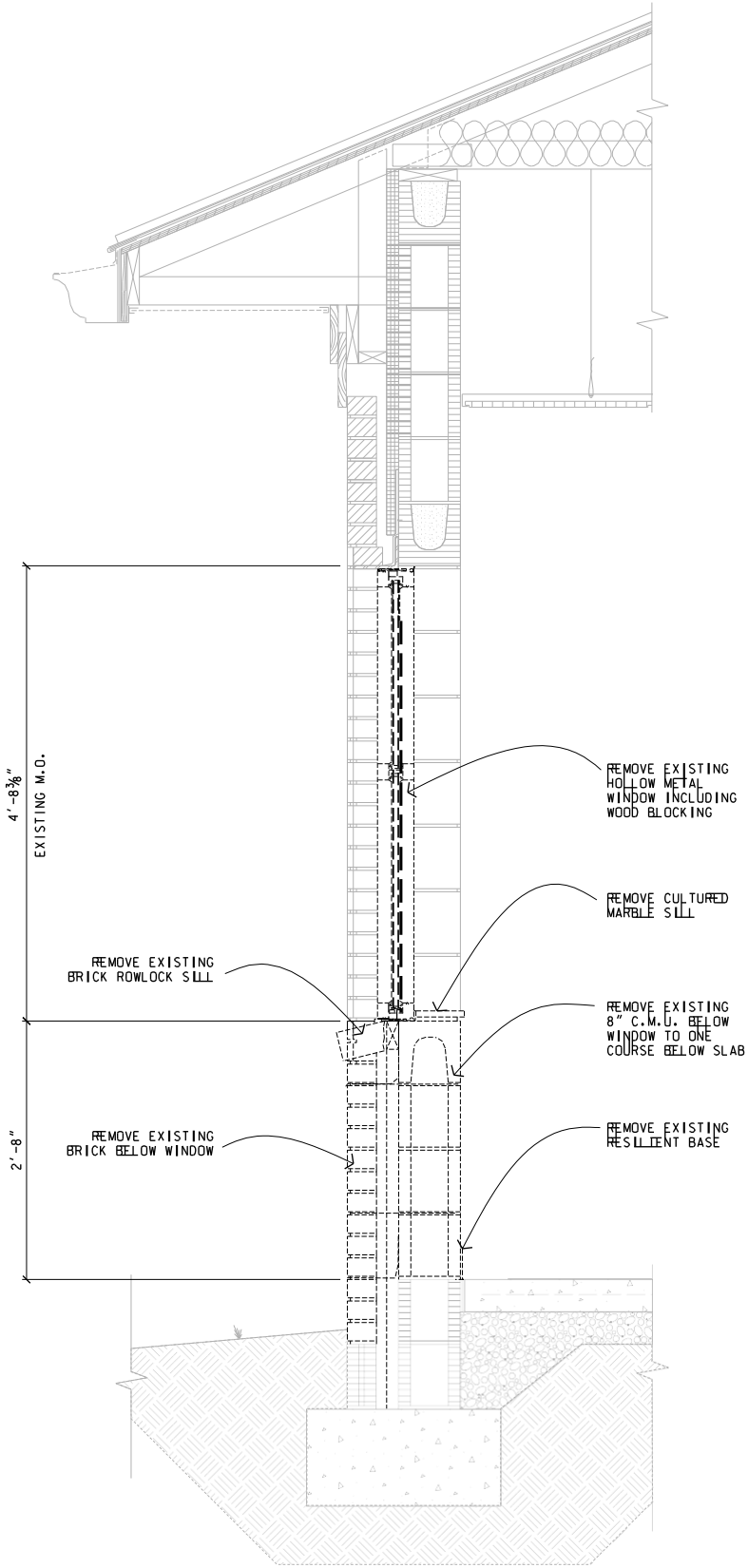
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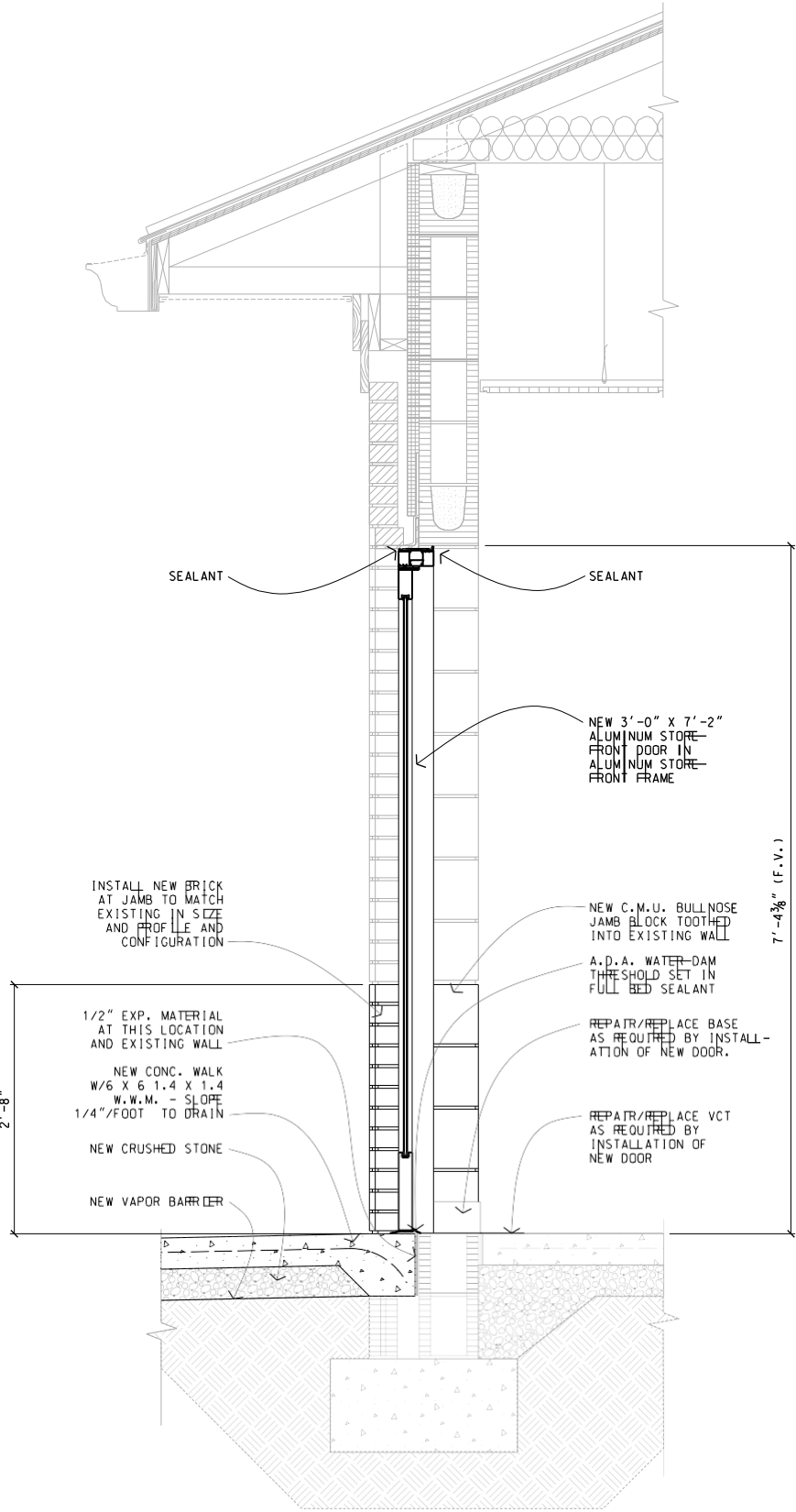
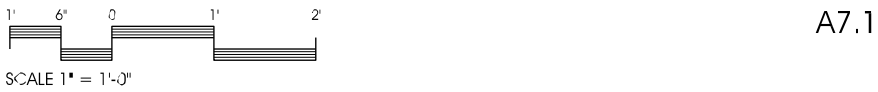
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CHECKED BY	J.H.B.



EXISTING WINDOW/NEW DOOR ELEVATION 3



WALL SECTION - DEMOLITION 2



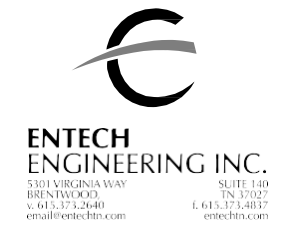
WALL SECTION - RENOVATION 1



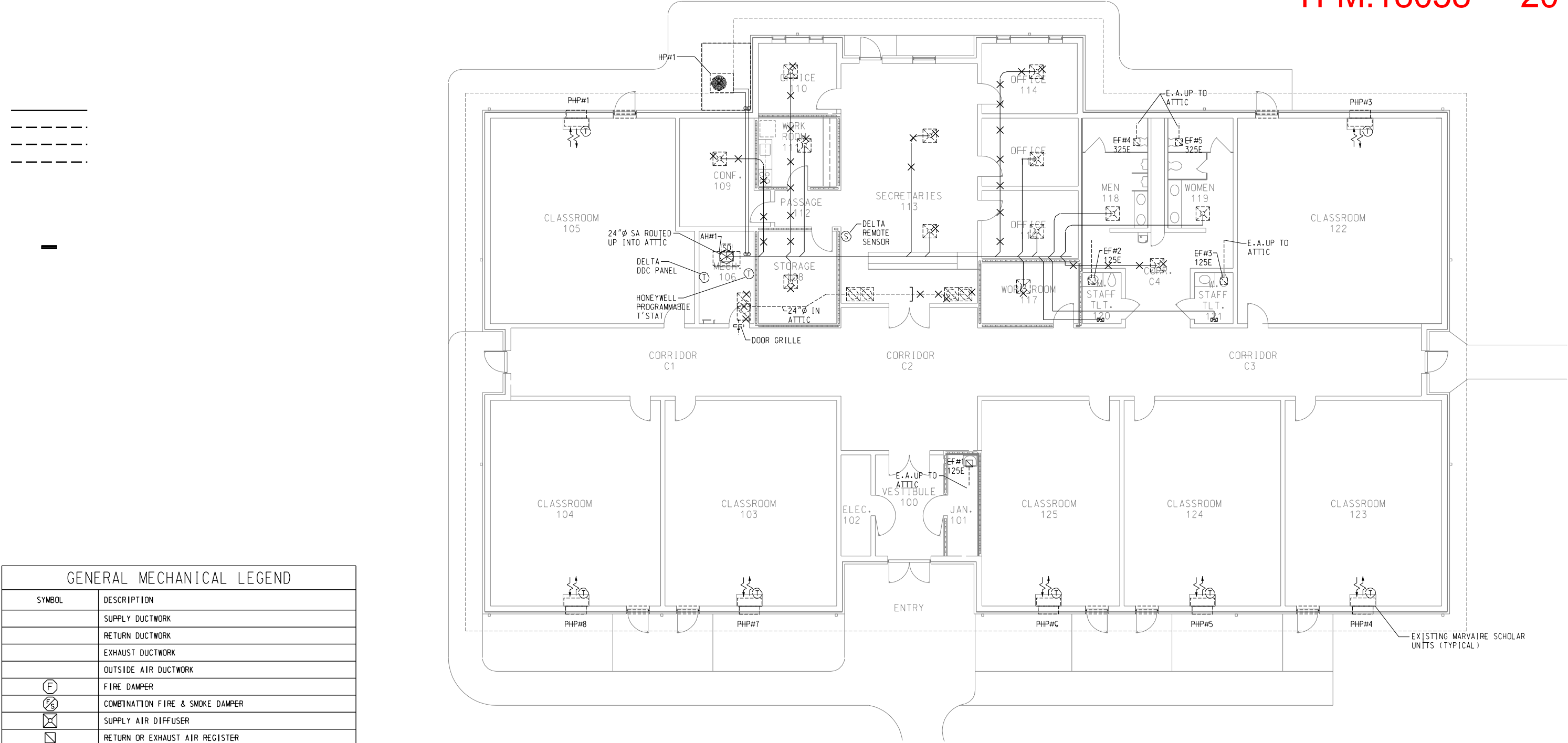
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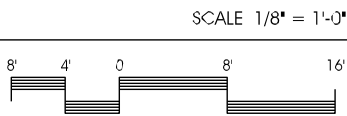


Change of Use
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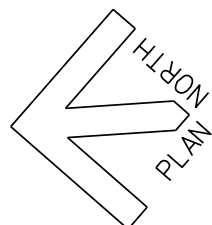
GENERAL MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY DUCTWORK
	RETURN DUCTWORK
	EXHAUST DUCTWORK
	OUTSIDE AIR DUCTWORK
(F)	FIRE DAMPER
(S)	COMBINATION FIRE & SMOKE DAMPER
(X)	SUPPLY AIR DIFFUSER
(R)	RETURN OR EXHAUST AIR REGISTER
	DAMPER
E.H.	ELECTRIC HEATER
EF	EXHAUST FAN
▲	UNDERCUT DOOR 3/4"
—	MANUAL VOLUME DAMPER (M.V.D.)
—	MOTORIZED VOLUME DAMPER
S.D.	SMOKE DETECTOR
8" Ø 200	8" Ø NECK SUPPLY AIR DIFFUSER @ 200 C.F.M.
8"x8" 150R	8"x8" RETURN AIR REGISTER @ 150 C.F.M.
6"x6" 100E	6"x6" EXHAUST AIR REGISTER @ 100 C.F.M.
(T)	SPACE THERMOSTAT MOUNTING HEIGHT PER ADA (48" AFF)
	CONNECT TO EXISTING AT APPROX. THIS LOCATION
	SUPPLY DUCT THRU SLAB OR ROOF - SEE PLANS
	RETURN OR EXHAUST DUCT THRU SLAB OR ROOF - SEE PLANS
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT - RELOCATED
(H)	SPACE HUMIDISTAT
(M)	MOTION DETECTOR & DIRECT. OF SENSOR (MTG. HT. PER MANF.)
X X X X X	EXISTING DUCTWORK OR PIPING TO BE REMOVED

DEMO
FLOOR PLAN

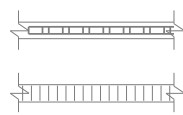


EXISTING C.M.U. 1-HOUR FIRE WALL
EXISTING CONCRETE MASONRY UNIT WALL

H.V.A.C.

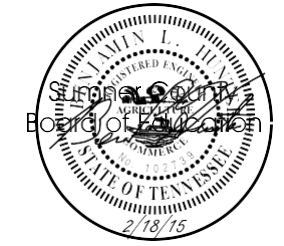


WALL LEGEND & NOTES



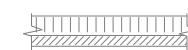
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CHECKED BY	E.E.L.

NOTES:



EXISTING C.M.U./BRICK VENEER EXTERIOR WALL

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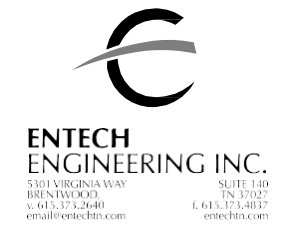
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8.0" = 1' in.



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Job Site

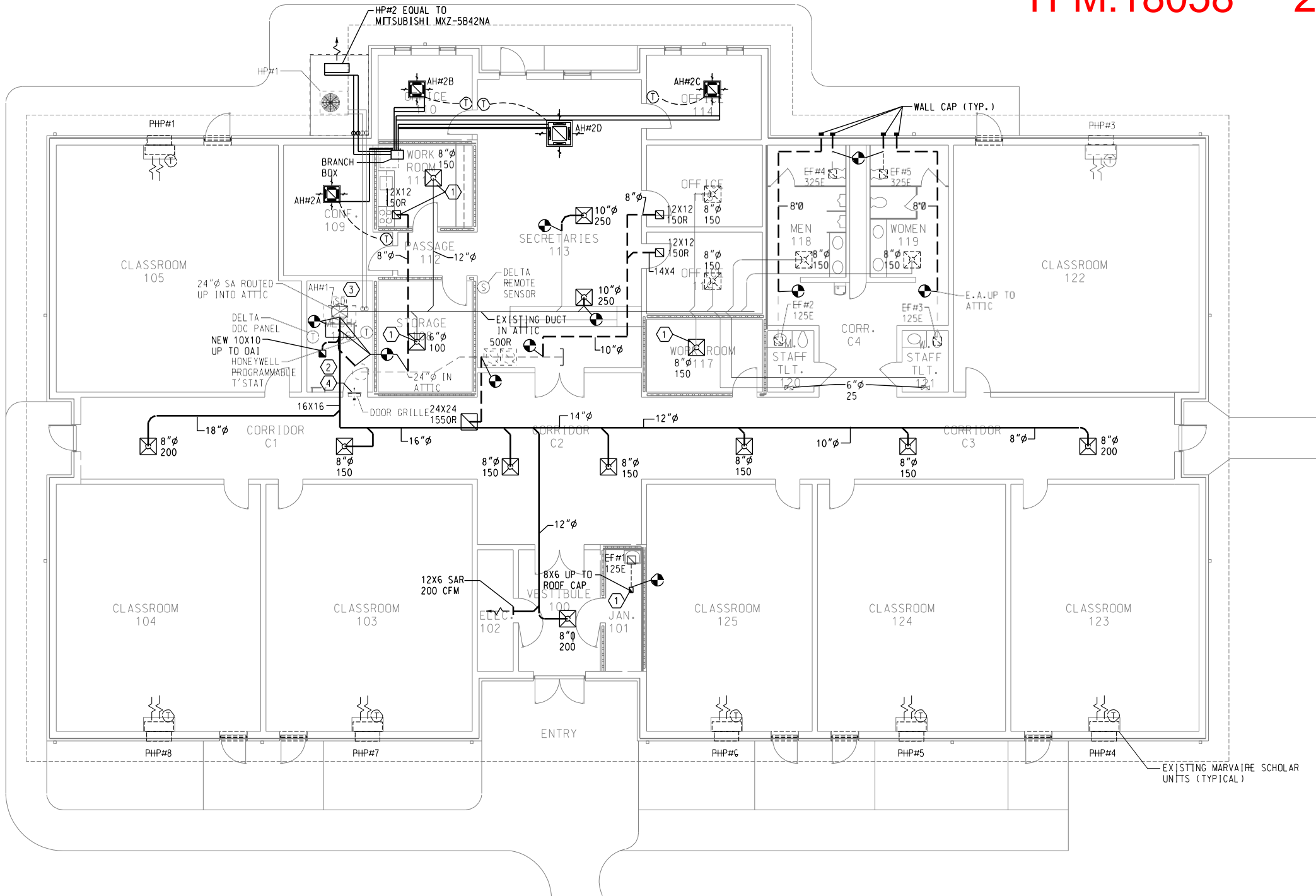
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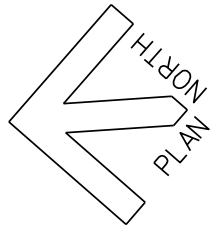
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M1.1



H.V.A.C.
FLOOR PLAN

SCALE 1/8" = 1'-0"

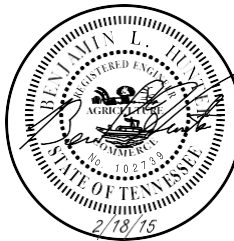
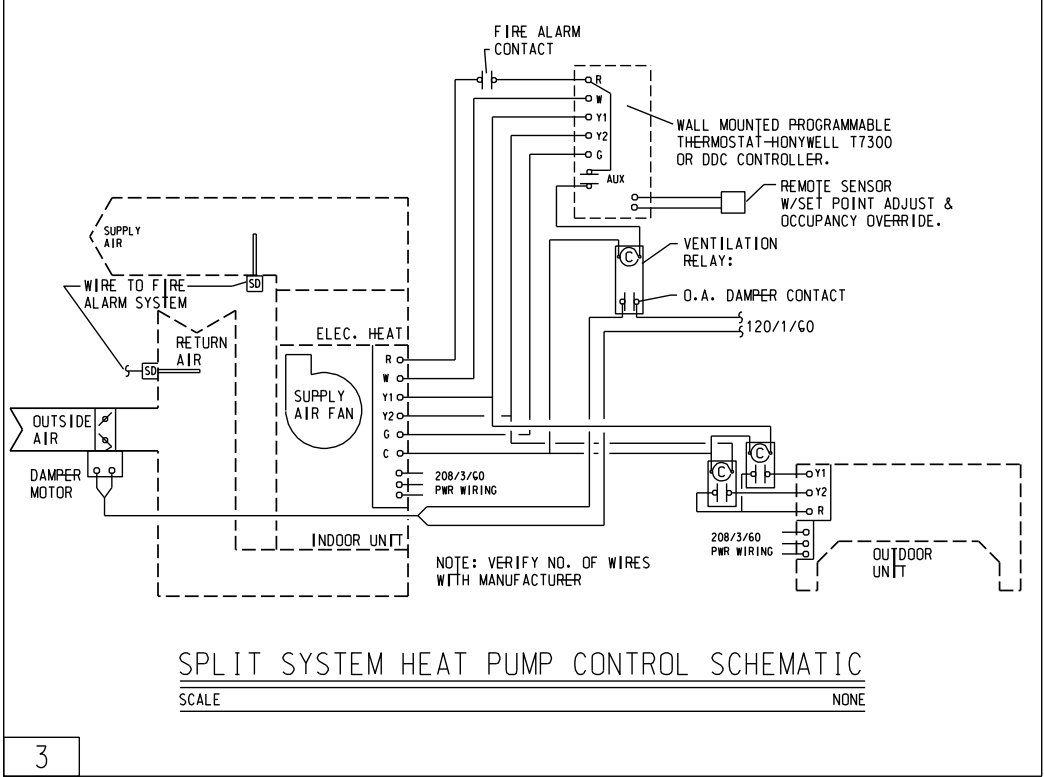


WALL LEGEND & NOTES:

	EXISTING C.M.U. 1-HOUR FIRE WALL
	EXISTING CONCRETE MASONRY UNIT WALL
	EXISTING C.M.U./BRICK VENEER EXTERIOR WALL

- GENERAL NOTES:
- A. COORDINATE DUCTWORK WITH ALL TRADES PRIOR TO FABRICATION. SUBMIT ANY MAJOR CHANGES IN DUCT ROUTING OR DUCT SIZING AS A SHOP DRAWING TO THE ARCHITECT/ENGINEER FOR REVIEW.
 - B. COORDINATE CEILING AIR INLETS AND OUTLETS WITH REFLECTED CEILING PLAN. DO NOT LOCATE ANY AIR OUTLETS WITHIN 3 FEET OF CEILING SMOKE DETECTORS.
 - C. MAINTAIN CLEARANCES FROM ELECTRICAL PANELS AS REQUIRED BY N.E.C.
 - D. MAINTAIN CLEARANCES FOR SERVICE OF HVAC EQUIPMENT AS REQUIRED BY MANUFACTURER AND NEC 110.26. PROVIDE MECHANICAL ROOM SHOP DRAWINGS AS REQUIRED FOR COORDINATION.
 - E. REFERENCE CONTROL SCHEMATICS & DUCTWORK DETAILS FOR MANUAL AND AUTOMATIC DAMPER LOCATIONS.
 - F. PROVIDE CONDENSATE DRAINS FROM EACH NEW AIR HANDLER AND BRANCH BOX.
 - G. CONFIRM PROPER SEALING OF ALL RATED WALL AND CEILING ASSEMBLIES WITH A PROPER U.L. LISTED ASSEMBLY. REWORK PENETRATIONS AS REQUIRED TO COMPLY. THIS APPLIES TO MECHANICAL AND PLUMBING PIPING PENETRATIONS.
- HVAC PLAN NOTES:
- 1. NEW STEEL DIFFUSER & RADIATION FIRE DAMPER AT NEW DRYWALL CEILING PENETRATION.
 - 2. NEW RETURN DUCT AND OUTSIDE AIR CONNECTED TO UNIT.
 - 3. EXISTING DUCT SMOKE DETECTOR - CONFIRM OPERATION AND INTERLOCK.
 - 4. CAP BACK SIDE OF DOOR GRILLE WITH SHEET METAL, CAULK & FASTENERS.

DX SPLIT SYSTEM				
UNIT DESIGNATION	AH#1/HP#1	AH#2A & HP#2	AH#2B & 2C	AH#2D
TYPE	EXISTING	DUCTLESS SPLIT - CEILI	DUCTLESS SPLIT - CEILI	DUCTLESS SPLIT - CEILI
SERVICE	MAIN LOBBY & INTERIOR	OFFICES & CONF.	OFFICES & CONF.	OFFICES & CONF.
ACCESSORIES	—	—	—	—
FILTERS	2" - 30% T.A.	1" WASHABLE	1" WASHABLE	1" WASHABLE
OTHER	—	①	①	①
FAN	—	AH#2A	AH#2B & 2C	AH#2D
TOTAL C.F.M.	2700	250-290-350	250-290-320	390-460-530-600
D.A. MINIMUM	200	—	—	—
EXTERNAL S.P.	0.7	0.0	0.0	0.0
H.P.	1.5	0.28 AMPS	0.23 AMPS	0.51 AMPS
VOLTAGE	208/3/60	208/1/60	208/1/60	208/1/60
COOLING COIL	—	—	—	—
TOT/SENS CAP. (MBH)	89.8/63.2	11.1/-	8.4/-	24.0/-
E.A.D.B./E.A.W.B.	80/67	80/67	80/67	80/67
MIN. E.E.R.	10.0	—	—	—
HEATING COIL	—	—	—	—
HEATING CAP. M.B.H. (@47°F)	—	13.6	10.9	26.0
E.A.D.B./L.A.D.B.	—	—	—	—
MIN. C.O.P.	—	—	—	—
K.W. ②	20	—	—	—
STAGES	1	—	—	—
VOLTAGE	208/3/60	208/1/60	208/1/60	208/1/60
MODEL #	CB17-95V-3	SLZ-KA12NA	SLZ-KA09	PLA-A24BA
CONDENSING UNIT	HP#1	HP#2	—	—
TYPE	EXISTING	HEAT PUMP	—	—
D.A.D.B.	95°F	95°F	—	—
VOLTAGE	208/3/60	208/1/60	—	—
COMPRESSOR R.L.A.	28.8	—	—	—
CONDENSER FAN F.L.A.	3.7	—	—	—
UNIT M.C.A./M.O.C.P.	40.0/60	32.0/50	—	—
MODEL NO.	HP29-090-3Y	MXZ-BB48NA	—	—
MANUFACTURER	LENNOX	MTSUBISHI	—	—
① ELECTRICAL FEEDER SHALL CONNECT TO THE HP UNIT & THEN TO THE AH'S PROVIDE CONDENSATE PUMP W/EACH A.H. PROVIDE WITH BRANCH BOX (208/1/60 VOLTS)				



PROJECT NO. 1407



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Bailey
Architects
P.C.

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ENTECH
ENGINEERING INC.
5010 WILSON ROAD SUITE 100
BIRMINGHAM, TN 37027
615.373.2400
email@entechinc.com entechinc.com

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M2.1

SECTION 15050 - BASIC MATERIALS AND METHODS

PART 1 GENERAL

1.1 REGULATORY REQUIREMENTS

- A. Conform to 2009 International Building Code, Mechanical Code and Plumbing Code.

1.2 TRANSPORTATION AND HANDLING

- A. Transport and handle Products in accordance with manufacturer's instructions.
B. Promptly inspect shipments to ensure that Products comply with requirements, quantities are correct, and Products are undamaged.
C. Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.

1.3 STORAGE AND PROTECTION

- A. Store and protect Products in accordance with manufacturers' instructions, with seals and labels intact and legible.
B. Store sensitive Products in weather tight, climate controlled enclosures.
C. For exterior storage of fabricated Products, place on sloped supports, above ground.
D. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.

PART 2 PRODUCTS

2.1 MECHANICAL IDENTIFICATION

- A. Plastic Nameplates and Tags: Laminated three-layer plastic.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install plastic nameplates with adhesive.
B. Install plastic tags with corrosion resistant metal chain.

3.2 TESTING, ADJUSTING, AND BALANCING

- A. Report Forms: AABC National Standards for Total System Balance forms.
B. Air Handling Systems: Adjust to within plus or minus 5 percent for supply systems and plus or minus 10 percent for return and exhaust systems of design.
C. Air Outlets and Inlets: Adjust to within plus or minus 10 percent of design.
D. I.A.B. Contractor shall be AABC or NEBB certified.

SECTION 15250 - MECHANICAL INSULATION

PART 1 GENERAL

NOT USED

PART 2 PRODUCTS

- 2.1.1 PIPING INSULATION
A. Piping Insulation: rigid molded, noncombustible with vapor barrier jacket.

- B. Cellular Foam: flexible, cellular elastomeric, molded or sheet.

C. Jackets

1. PVC Plastic: one piece molded type fitting covers.

2.2 DUCTWORK INSULATION

- A. Flexible Glass Fiber: Flexible, noncombustible blanket with vapor barrier jacket.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Piping Insulation
1. Provide cold pipes with vapor barrier jackets. Insulate complete system.
2. Provide hot pipes with standard jackets. Bevel and seal end of insulation at equipment, flanges, and unions.
3. Interior exposed piping - canvas jacket and fitting covers.
4. Exterior piping - aluminum jacket and fitting covers.
B. External Ductwork Insulation
1. Provide cold ductwork with vapor barrier jacket. Seal vapor barrier penetrations with vapor barrier adhesive.
2. Interior exposed ductwork, rigid duct board, finish with canvas jacket sized for finish painting.
3. Exterior ductwork, rigid duct board, finish with aluminum jacket.

3.2 SCHEDULES

- A. Piping Insulation
1. Glass Fiber or Cellular Foam Insulation
Domestic Cold Water
Domestic Hot Water
Floor Drains above grade
2. Cellular Foam Insulation
Refrigerant Suction Piping (Inside) all sizes
Refrigerant Suction Piping (Outside) all sizes
B. Ductwork Insulation
1. Flexible Glass Fiber
Exhaust Ducts within 10 ft of Exterior Openings
Supply Ducts
Return Ducts
Exterior Supply & Return Ducts

SECTION 15880 - AIR DISTRIBUTION

PART 1 GENERAL

NOT USED

PART 2 PRODUCTS

2.1 DUCTWORK

- A. Materials
1. Steel Ducts: Galvanized steel sheet, lock-forming quality.
2. Flexible Ducts: Fabric supported by helically wound spring steel wire or flat steel bands.

Metal Ductwork

1. Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible.
2. Construct T, S, bends, and elbows with radius of 1-1/2 times width of duct on center line or provide turning vanes.
3. Increase duct sizes gradually, not exceeding 30 degrees divergence and 45 degrees convergence.

2.2 DUCT ACCESSORIES

- A. Volume Control Dampers
1. Fabricate per SMACNA HVAC Duct Construction Standards - Metal and Flexible.
2. Splitter Dampers: Same gage as duct to 24 inches size and two gages heavier for larger sizes.
3. Single Blade Dampers: Fabricate for duct sizes to 12 x 30 inch.
4. End Bearings: Provide except in round ductwork 12 inches and smaller.
5. Ductports: Provide locking, indicating regulators on dampers, where width exceeds 30 inches provide regulator at both ends.
B. Backdraft Dampers: Fabricate multi-blade, parallel action gravity balanced backdraft dampers of galvanized steel or extruded aluminum with center pivoted blades linked together.
C. Flexible Duct Connections: UL listed fire-retardant neoprene coated woven glass fiber fabric to NFPA 90A, approximately 3 inches wide, crimped into metal edging strip.
D. Duct Access Doors
1. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible.
2. Access doors smaller than 12 inches square may be secured with lash locks. Access doors with sheet metal screw fasteners are not acceptable.

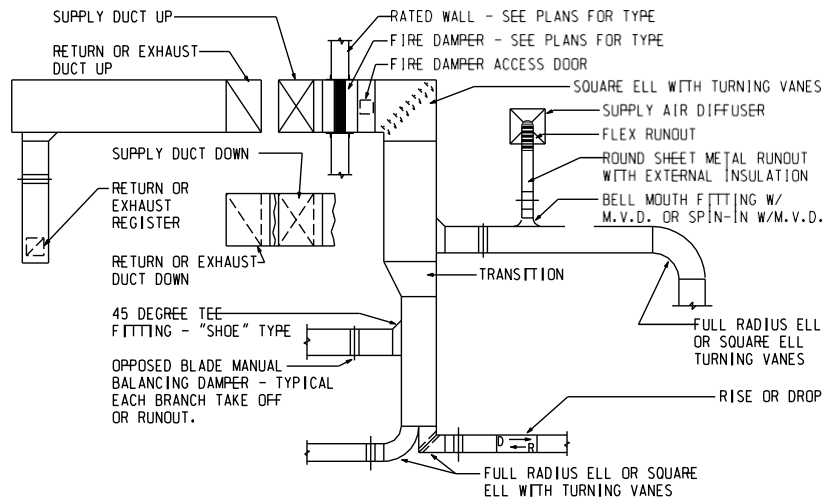
2.3 AIR OUTLETS & INLETS

- A. Ceiling Diffusers: MetalAire 5600-6. Rectangular, stamped or spun, multi-core type diffuser to discharge air in 360 degree pattern, with sectorizing baffles white, indicated radial opposed blade damper: baked enamel off-white finish.
B. Registers/Grilles: MetalAire CCSD. Fixed grilles of 1/2 x 1/2 x 1/2 inch louvers with factory off-white finish.

PART 3 EXECUTION

3.1 INSTALLATION

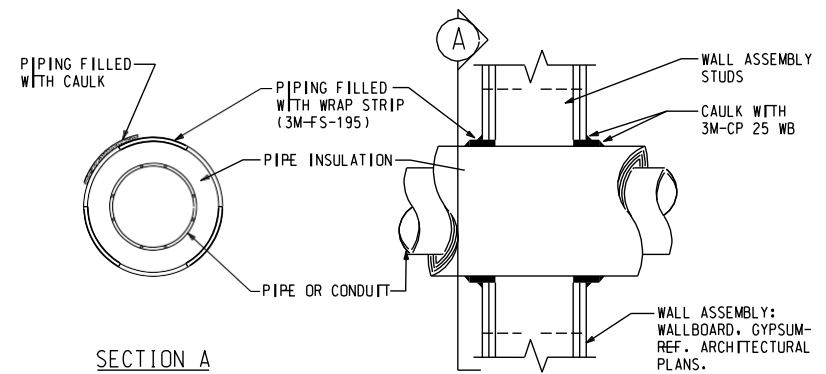
- A. Provide backdraft dampers on discharge of exhaust fans.
B. Connect diffusers to low pressure ducts with 5 feet maximum length of flexible duct.
C. Provide flexible connections immediately adjacent to equipment in ducts associated with fans and motorized equipment.
D. Provide duct access doors for inspection and cleaning before and after filters, coils, fans, automatic dampers or fire dampers, and elsewhere as indicated.
E. Check location of air outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.
F. Provide balancing dampers on duct take-off to all diffusers, and grilles and registers.
G. Paint ductwork visible behind air outlets and inlets matte black.
H. Seal all ductwork longitudinal and transverse seams and connections with sealant listed and labeled in accordance with UL181A or UL181B. Duct connections to flanges of air distribution systems shall be sealed and mechanically fastened.



TYPICAL SUPPLY, RETURN OR EXHAUST DUCT SYSTEM

SCALE: NONE

C4

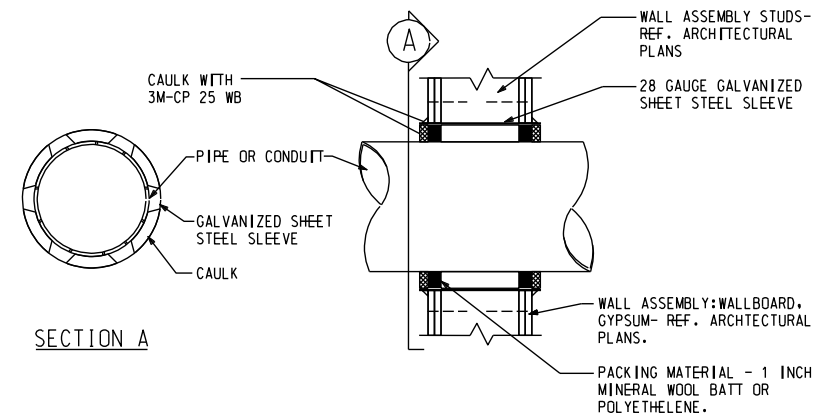


NOTE: THE INDICATED DETAIL U.L. SYSTEM NO. WL5001 IS ASSEMBLED UTILIZING 3M FIRE PROTECTION PRODUCTS. OTHER U.L. SYSTEMS AND MANUFACTURERS MAY BE USED WITH APPROVED SUBMITTAL. THE DETAIL IS SHOWN TO PROVIDE DESIGN INTENT. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH U.L. REQUIREMENTS.

PIPE PENETRATION 1 OR 2 HOUR FIRE RATING

SCALE: NONE
PENETRATION FIRESTOP FOR MAX. 12" STEEL, CAST IRON OR 6" COPPER INSULATED PIPE THROUGH STUD WALL ASSEMBLY.

F8

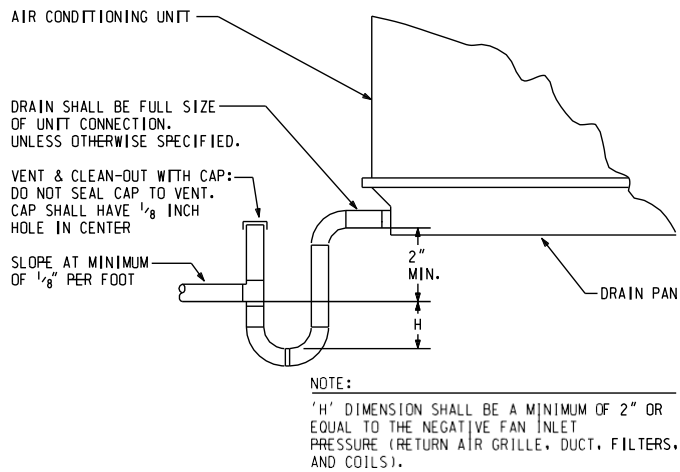


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PIPE PENETRATION 1 OR 2 HOUR FIRE RATING

SCALE: NONE
PENETRATION FIRESTOP FOR MAX. 12" STEEL, CAST IRON OR 4" COPPER UNINSULATED PIPE THROUGH STUD WALL ASSEMBLY.

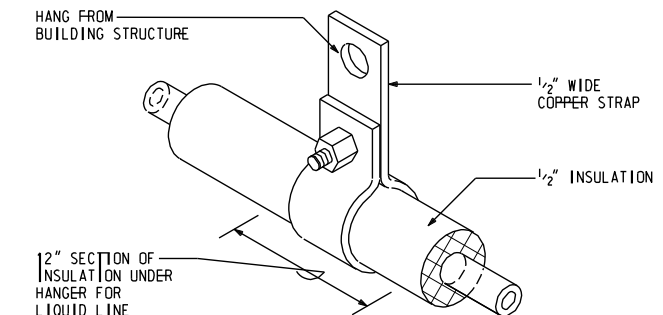
F7



CONDENSATE DRAIN FROM DRAW-THRU UNITS

SCALE: NONE

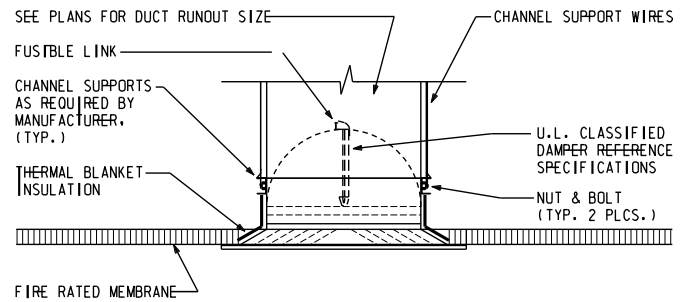
A6



DETAIL FOR REFRIGERANT LINE HANGER

SCALE: NONE

A8



CEILING OUTLET PROTECTION

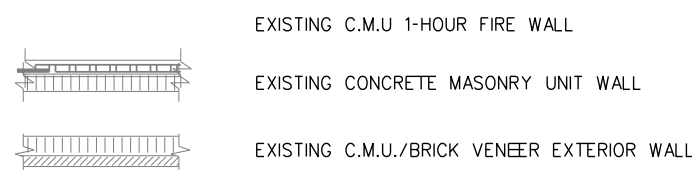
SCALE: NONE

F3

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8.0' = 1" / ft.

WALL LEGEND & NOTES:

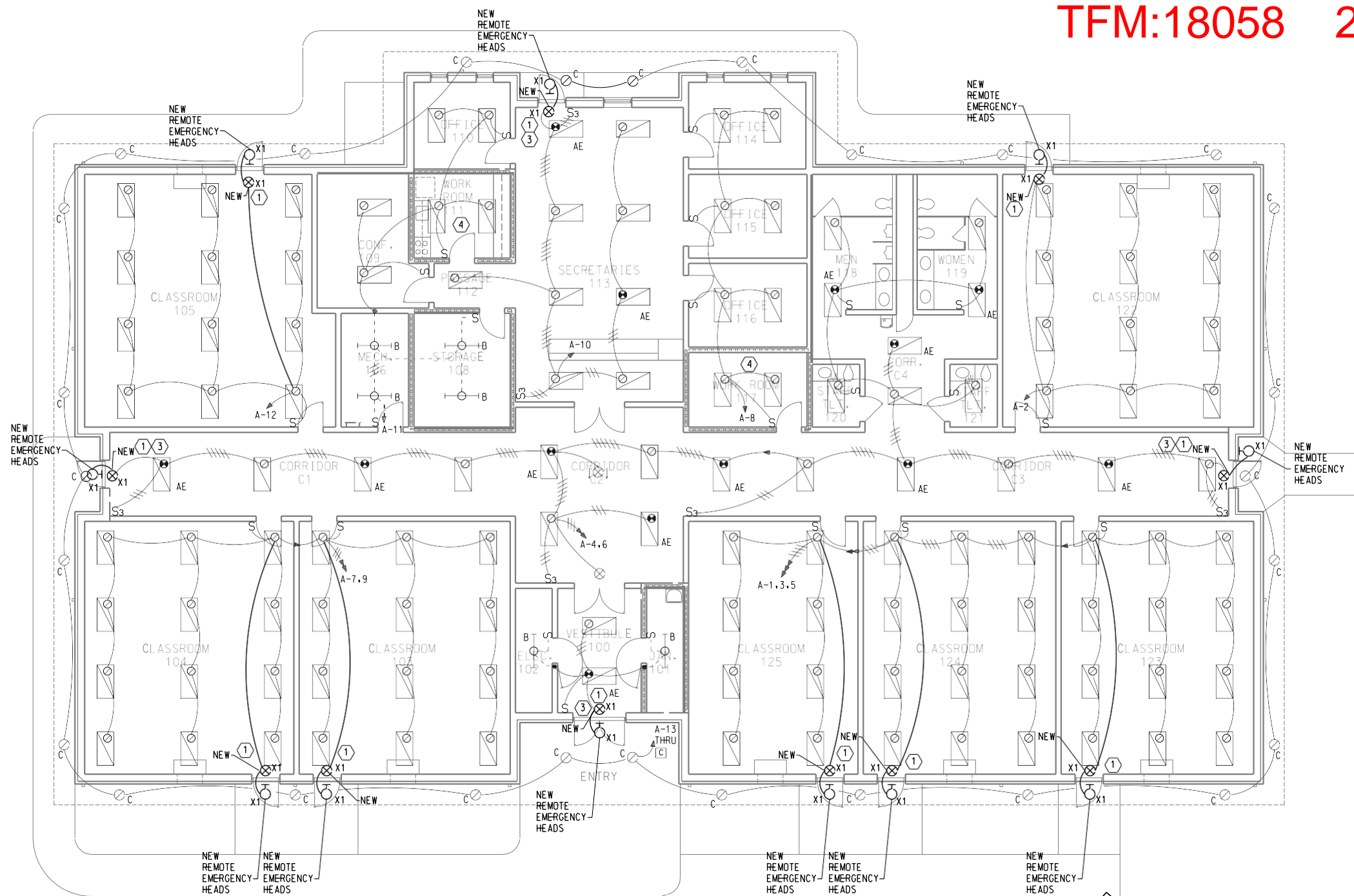


GENERAL NOTES:

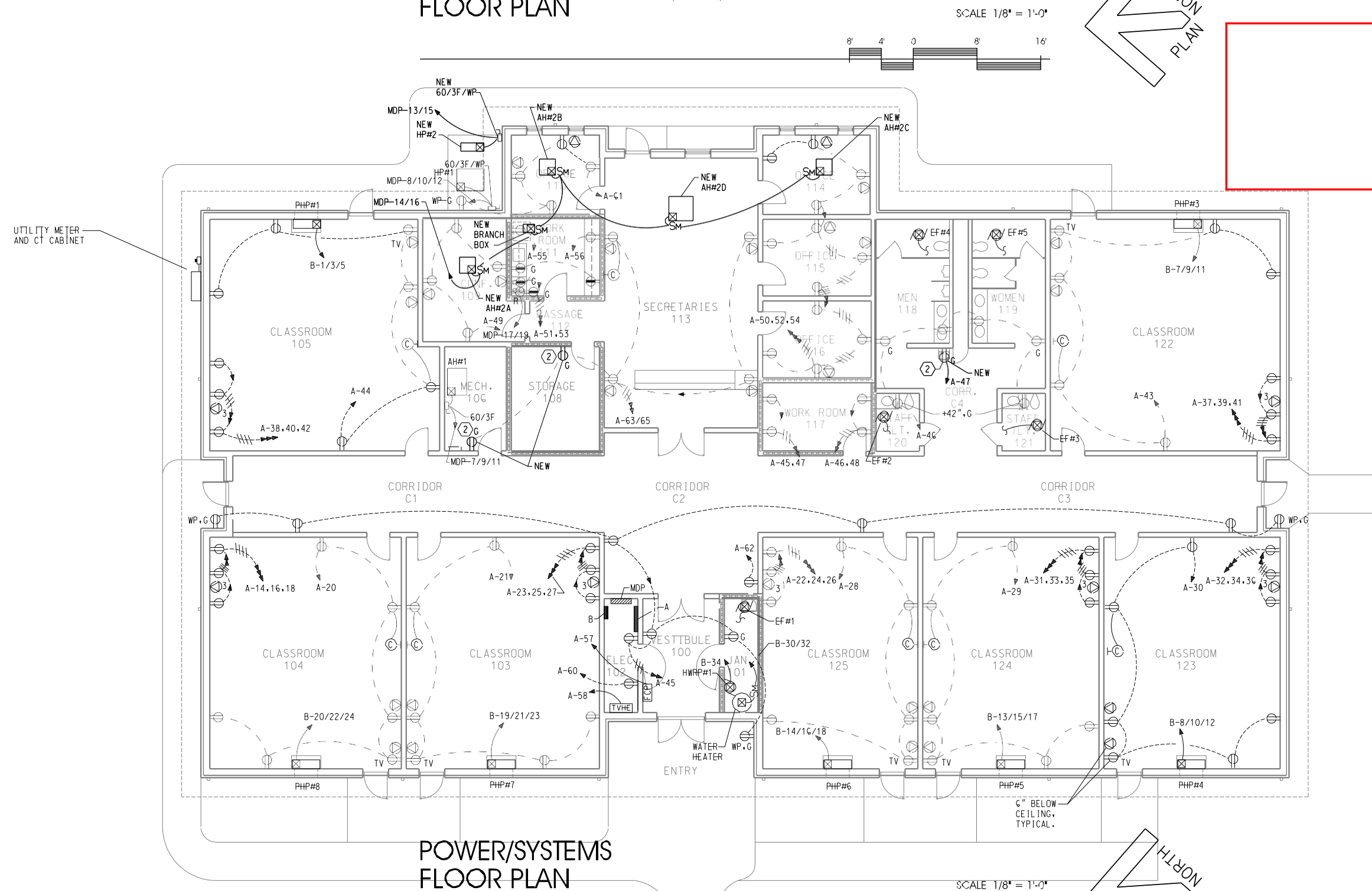
- ALL FIXTURES ARE EXISTING, UON. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR ALL CEILING MOUNTED ITEMS.
- ALL EXIT AND EMERGENCY BATTERY PACKS ARE TO BE UNSWITCHED. SWITCH LAMPS ONLY.
- ALL ITEMS ARE SHOWN AS EXISTING TO REMAIN UNLESS NOTED AS NEW BY THE ITEM.
- CONFIRM ALL CONDUIT PENETRATIONS OF RATED WALL AND CEILING ASSEMBLIES ARE SEALED WITH AN APPROPRIATE U.L. LISTED ASSEMBLY. REWORK AS REQUIRED TO COMPLY.

PLAN NOTES:

- CONNECT TO UNSWITCHED CIRCUIT USING FEEDER 'A2'.
- REPLACE EXISTING RECEPTACLE WITH A NEW GFI RECEPTACLE.
- EXISTING EXIT SIGN TO BE REPLACED WITH NEW AS SHOWN.
- EXISTING LIGHTS TO BE REINSTALLED IN NEW GRID. SUPPORT LIGHTS FROM STRUCTURE WHILE NEW GRID IS BEING INSTALLED.



LIGHTING FLOOR PLAN



POWER/SYSTEMS FLOOR PLAN

TFM:18058 2015-02-19-02

JB

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615-272-2600
email: entech@entech.com

Change of Use
Business to Educational

E.B.WILSON
BUILDING

Sumner County
Board of Education

REVISION	DATE

NOTES:

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PERMISSION OF THE ARCHITECT.



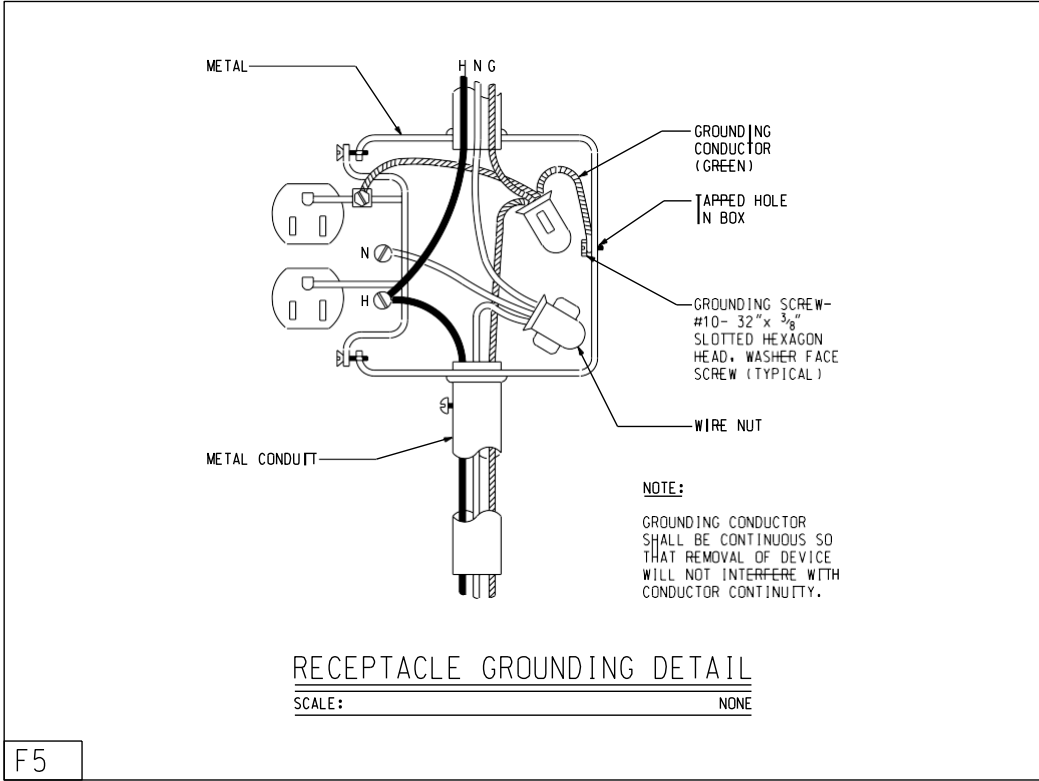
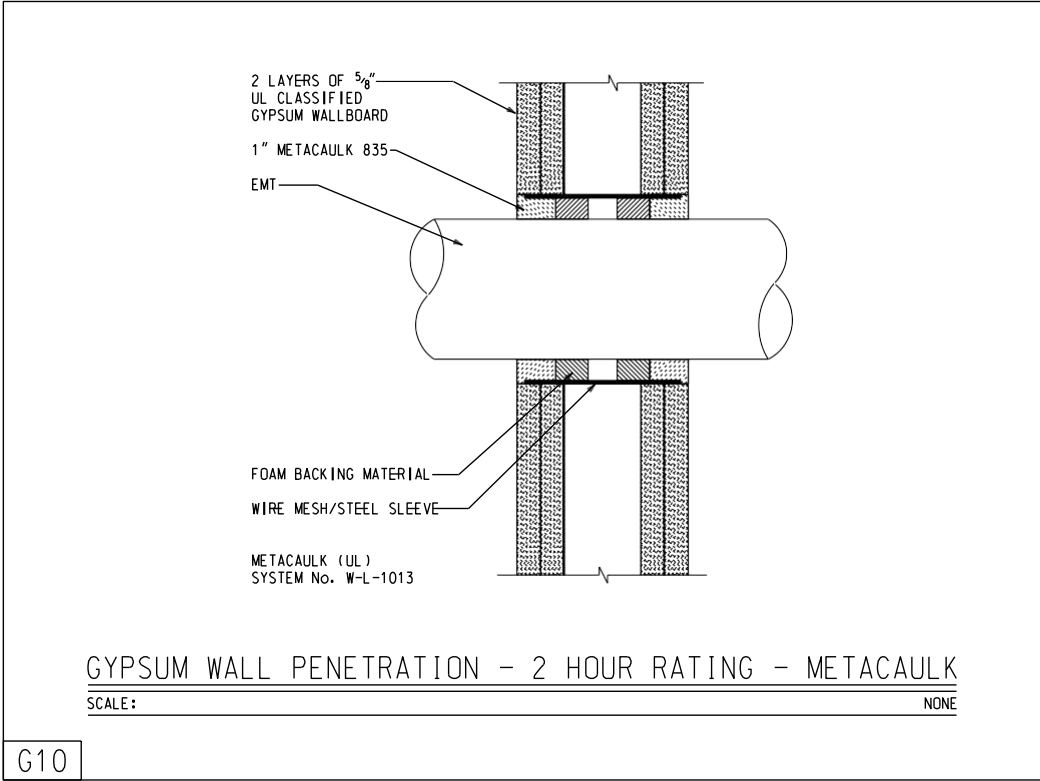
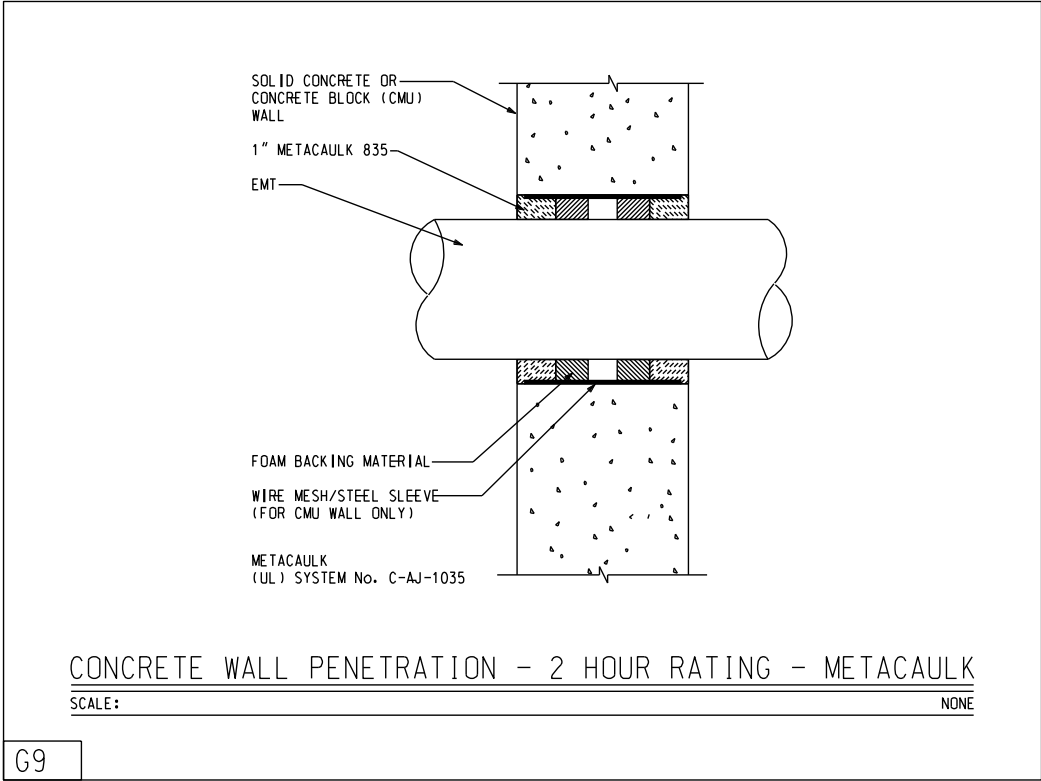
PROJECT NO. 1407
DATE 2/18/15
DRAWN BY E.E.I.
CHECKED BY E.E.I.

E1.1

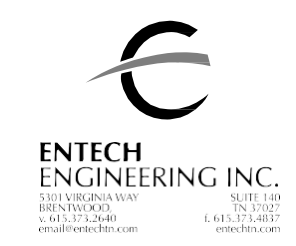
TFM:18058 2015-02-19-02

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2/19/2015
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bhpnter
8.0
1/8" = 1' / in.



City Center
100 East Vine St.
Murfreesboro Tennessee
37130
615-890-4560
Fax: 615-890-4564



Change of Use
Business to Educational

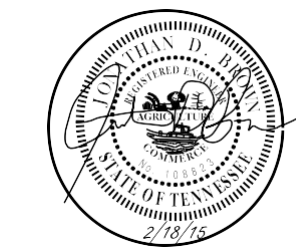
E.B.WILSON
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Sumner County
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E2.1

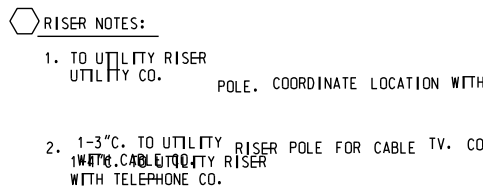
UNTING: SURFACE AMPS S.I.C.: G5000 S

* NEW-CHANGE OUT EXISTING 20A/2P BREAKER TO NEW 50A/2P BREAKER TO MATCH EXISTING MANUFACTURER/AIC RATING.	TOTALS:	68.57	64.06	63.88
	TOTAL:	196.51		

✱

* NEW-SEE GENERAL NOTE 'D' ON SHEET E1.2. TOTALS:	23.34	24.24	23.46
PROVIDE LOCK-ON DEVICE FOR FIRE ALARM PANEL BREAKER.	TOTAL:	71.04	

BRANCH CIRCUIT AND FEEDER LEGEND	
FEEDER NO.	CONDUIT AND WIRE
A2	$1\frac{1}{2}'' - 2 \text{ #12 \& 1 \#12 GND.}$
A3	$3\frac{3}{4}'' - 3 \text{ #12 \& 1 \#12 GND.}$
B1	$3\frac{3}{4}'' - 2 \text{ #10 \& 1 \#10 GND.}$
B2	$3\frac{3}{4}'' - 3 \text{ #10 \& 1 \#10 GND.}$
C2	$1'' - 3 \text{ #8 \& 1 \#10 GND.}$
D1	$1'' - 2 \text{ #6 \& 1 \#10 GND.}$
D2	$1'' - 3 \text{ #6 \& 1 \#10 GND.}$
M2	$2\frac{1}{2}'' - 4 \text{ #3/0 \& 1 \#6 GND.}$
O2	$3\frac{1}{2}'' - 4 \text{ #500MCM \& 1 \#3 GND.}$
T4	$2 \text{ PARALLEL } 3\frac{1}{2}'' - 4 \text{ #500MCM}$



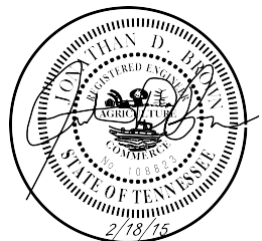
E.B.WILSON
BUILDING

ites
or

REVISION	DATE

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DATE 2/18/15
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CHECKED BY E.E.I.

E3.1

3. POLE FOR TELEPHONE. COORDINATE

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2/19/2015
2:56:45 AM

bhpinter
80' / in.

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMPS QTY	TYPE	MOUNTING
A	COLUMBIA	ST824-4320-FSA12.125-EB8-120	120	4	32W T8	RECESSED
	METALUX					
	LIGHTOLIER					
** AE	COLUMBIA	ST824-4320-FSA12.125-EB-120-EM WITH BODINE B50	120	4	32W T8	RECESSED
	METALUX					
	LIGHTOLIER					
** B	COLUMBIA	CS4-232-EB-CSWG4	120	2	32W T8	SURFACE
	METALUX					
	LIGHTOLIER					
** C	PRESCOTT	CFTG32EB-STF602-BG	120	1	42W T8T	RECESSED
	HALO					
	CALCULITE					
* X1	DUAL LTITE	EVC-U-R-W-D4-D-EVO-D-B	120	—	LED'S	SURFACE
	SURE-LITES					
	LIGHTOLIER					
** ☒	DUAL LTITE	SESWE	120	—	INCL.	SURFACE
	SURE-LITES					
	LIGHTOLIER					

NOTE: ALL BALLASTS MUST BE ADVANCE, MOTOROLA OR GENERAL ELETRIC
* NEW
** EXISTING

- GENERAL NOTES AND SPECIFICATIONS
- A. GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- B. COMPLY WITH THE NEC 2011, STATE, AND LOCAL CODES.
- C. USE ONLY COPPER CONDUCTORS AS NOTED. MINIMUM SIZE #12 AWG. USE TYPE THHN, UON. ALL CIRCUITS SHALL BE COLOR CODED.
- D. USE MINIMUM 1/2" CONDUIT. USE 3/4" MINIMUM GALVANIZED COATED WITH ASPHALTUM OR SCHEDULE 40 PVC IN CONCRETE BELOW GRADE. FOR PVC, TRANSITION TO RIGID BEFORE EMERGING FROM BELOW. USE EMT WHERE CONCEALED IN WALLS AND CEILINGS. USE RIGID IN SLAB AND UNDERGROUND.
- E. USE STAINLESS STEEL DEVICE COVER PLATES, UON.
- F. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED, COMMERCIAL GRADE.
- G. USE HUBBELL WIRING DEVICES AS FOLLOWS:
SWITCHES - 15 AMP, #1201-1, 1202-1, 1203-1
SWITCHES - 20 AMP, #1221-1, 1222-1, 1223-1, 1224-1
SWITCHES - MOTOR STARTERS, USE SQUARE D CLASS 2510
RECEPTACLES - 15 AMP, #5252-1, 5262-1 FOR GENERAL PURPOSES.
RECEPTACLES - 20 AMP, 5663H-1 FOR SAFETY TYPE.
RECEPTACLES - GFCI, GF5262-1 (15A), GF5362-1 (20A).
- H. ALL WIRING MUST BE IN CONDUIT.
- I. EQUIPMENT OUTSIDE MUST BE WEATHERPROOF. USE HEAVY DUTY DISCONNECT SWITCHES.
- J. CONDUIT OUTSIDE MUST BE GALVANIZED STEEL OR PVC, AS NOTED ABOVE.
- K. USE 6' MAXIMUM LENGTH OF FLEXIBLE CONDUIT TO FIXTURES.
- L. REMOVE TEMPORARY WIRING UPON COMPLETION OF WORK. REMOVE UNUSED EXISTING WIRING UPON COMPLETION OF WORK.
- M. USE BUSS TYPE LPS OR LPN FUSES FOR MOTORS AND EQUIPMENT. USE BUSS TYPE KTS OR KTN FUSES FOR PANEL AND TRANSFORMER FEEDERS.
- N. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES, MECHANICAL EQUIPMENT AND EQUIPMENT FURNISHED BY OWNER PRIOR TO ROUGH-IN.
- O. USE "PATE" PIPE SEALS FOR CONDUIT THROUGH ROOF. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT. USE 1/2" SEALTITE FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT.
- P. PANELBOARDS ARE EXISTING CUTLER HAMMER, UON. THE ELECTRICAL CONTRACTOR IS TO MATCH EXISTING FOR ANY NEW BREAKERS REQUIRED.
- Q. DO NOT INSTALL MORE CONDUCTORS IN A BRANCH CIRCUIT HOMERUN THAN SHOWN.
- R. ALL WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.
- S. INSTALL CONTROL WIRING IN MINIMUM 1/2" CONDUIT FOR ALL HVAC UNITS TO THERMOSTATS AND ROOF TOP UNITS, ETC. SEE MECHANICAL CONTROL AND MANUFACTURER'S DRAWINGS.
- T. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.
- U. FLUORESCENT LAMP EMERGENCY POWER SUPPLY SHALL BE ONE LAMP AS SCHEDULED ON THE PLANS PROVIDING 1100-1400 LUMENS, MINIMUM. THE BATTERY SHALL BE A NICKEL CADMIUM TYPE, RATED FOR A TEN YEAR LIFE. INCLUDE TEST SWITCH AND AC ON INDICATOR LIGHT. INSTALLED TO BE OPERABLE AND VISIBLE FROM THE OUTSIDE OF AN ASSEMBLED LUMINAIRE.

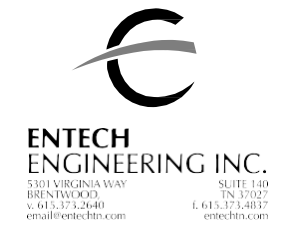
GENERAL ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
○	CEILING OUTLET, SURFACE FIXTURE	
⊗	CEILING OUTLET, RECESSED FIXTURE	
⊕	CEILING OUTLET, RECESSED FIXTURE w/BATTERY BACK UP	
○4	BRACKET OUTLET	
⎓	RECESSED FLUORESCENT LIGHTING FIXTURE	
⎓→	FLUORESCENT STRIP LIGHT FIXTURE	
□→	AREA OR STREET LIGHTING FIXTURE	
⊗	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
S	SINGLE POLE SWITCH	48" AFF
S3	THREE-WAY SWITCH	48" AFF
⊕	DUPLEX GROUNDING RECEPTACLE	18" AFF
⊕	DUPLEX GROUNDING RECEPTACLE (MOUNTED ABOVE COUNTER)	ABC
⊕	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
TV⊕	RECEPTACLE FOR TELEVISION	6"BLW CLG
⊕	JUNCTION OR PULL BOX	
⋈	MOTOR, E.F. DENOTES EXHAUST FAN	
SM	MANUAL MOTOR STARTER OR RELAY CONTROL	
⊗	MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	
□	SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	
■	LIGHTING OR POWER PANEL	
⎓⎓⎓	MAIN OR SUB-DISTRIBUTION PANEL	
⌚	TIME CLOCK - SEE SPECS	
⌚	CONTACTOR - SEE SPECS	
⊕	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
—	CONDUIT, CONCEALED IN CEILING OR WALL	
— — — —	CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
— — — —	CONDUIT, EXPOSED	
—○	CONDUIT, TURNING UP	
—○	CONDUIT, TURNING UP	
WP	WEATHERPROOF	
G	GROUND FAULT CURRENT INTERRUPTING	
AFF	ABOVE FINISHED FLOOR	
UON	UNLESS OTHERWISE NOTED	
GC	GENERAL CONTRACTOR	
MC	MECHANICAL CONTRACTOR	
EC	ELECTRICAL CONTRACTOR	
EDF	ELECTRIC DRINKING FOUNTAIN	
A.C.U.	AIR CONDITIONING UNIT	
FBO	FURNISHED BY OTHERS	
TTB	TELEPHONE TERMINAL BOARD	
TVSS	TRANSIENT VOLTAGE SURGE PROTECTOR	
⊕	MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1" TO ABOVE CEILING)	18" AFF
⊕	MULTI USE OUTLET FOR VOICE, DATA, VIDEO ABOVE COUNTER (1" TO ABOVE CEILING)	ABC
TVHE	TELEVISION HEAD-END EQUIPMENT	
⊕	SPEAKER, CEILING MOUNTED	
⊕	CLOCK OUTLET, WALL MOUNTED	6" - 8" AFF
⊕R	RANGE OUTLET	8" AFF

BRANCH CIRCUITING LEGEND		
→	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
→→→	A-1,3	TWO 1-POLE CKT HOMERUNS TO PANEL A
→→→→	A-1,3,5	THREE 1-POLE CKT HOMERUNS TO PANEL A
→	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
→→	A-1/3,2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
→→→	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A
NOTE: ALL MULTI-WIRE BRANCH CIRCUITS TO COMPLY WITH 2008 NEC 210.4		

TFM:18058 2015-02-19-02



City Center
100 East Vine St
Murfreesboro Tennessee
37130
615-890-4560
Fax: 615-890-4564



Change of Use
Business to Educational

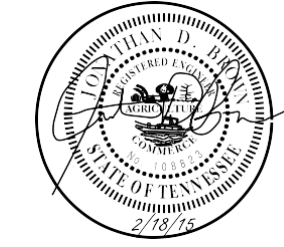
E.B.WILSON
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REVISION	DATE

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PROJECT NO. 1407
DATE 2/18/15
DRAWN BY E.E.I.
CHECKED BY E.E.I.



TFM:18058 2015-02-19-02

E4.1



**ENTECH
ENGINEERING INC.**
5101 VIRGINIA WAY
BRENTWOOD,
TN 37027
v. 615.373.2640
email@entechtn.com


SUITE 140
TN 37027
t. 615.373.4837
entechtn.com

E.B.WILSON
BUILDING

REVISION _____ DATE _____

NOTES:

E4.2

	PROJECT NO.	17
	DATE	11/11/17
	DRAWN BY	11/11/17
	CHECKED BY	11/11/17

ADDENDUM NO. 1

DATE: March 16, 2015

PROJECT: Change of Use - Business to Educational
E.B. Wilson Building
Sumner County Board of Education
J+B No. 1407

ARCHITECT: Johnson + Bailey Architects, P.C.
City Center, Suite 700
100 East Vine Street
Murfreesboro, TN. 37130

The following Addendum adds to, corrects, or supersedes Contract Documents dated February 18, 2015, and is as follows:

CHANGES TO THE DRAWINGS**DRAWING A2.1****REFERENCE: DEMOLITION/RENOVATION NOTES**

ADD: Note 13. Verify that all existing walls are tight to new or existing fire-rated gypsum board at underside of trusses at the following locations: Jan. 101, Storage 108, Work Room 111, and Work Room 117.

DRAWING A4.1**REFERENCE: REFLECTED CEILING PLAN**

ADD: New Ceiling Mounted Emergency Light Fixture to Secretary 113 side of Door 123.

DRAWING E1.1**REFERENCE: LIGHTING FLOOR PLAN**

ADD: Emergency lighting to Electrical Room 102, Mechanical Room 106, and Passage 112 as indicated by Revision #1 dated 3/13/2015.

ADD: Exit sign to Secretary 113 side of Door 123 as indicated by Revision #1 dated 3/13/2015.

REFERENCE: POWER/SYSTEMS FLOOR PLAN

CHANGE: Receptacles in Men 118 and Women 119 to GFI receptacles as indicated by Revision #1 dated 3/13/2015.

DRAWING E1.2**REFERENCE: EXISTING/NEW FIRE ALARM FLOOR PLAN**

ADD: Smoke detectors to Work Room 111, Work Room 117, and Electrical Room 102 as indicated by Revision #1 dated 3/13/2015.



THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

No alterations, deletions, additions, modifications of any kind are allowed to approved set without written permission of this office.

TENNESSEE STATE FIRE MARSHAL'S OFFICE

M:18058

2015-02-19-02

ADDENDUM NO. 1
E.B. Wilson Building
Sumner County Board of Education
J+B No. 1407
March 16, 2015
Page 2

- ADD:** Audible Notification Devices DbA ratings as indicated by Revision #1 dated 3/13/2015.
- ADD:** Visible Notification Devices Candela ratings as indicated by Revision #1 dated 3/13/2015.
- ADD:** A Fire Alarm annunciator panel to Secretaries 113 as indicated by Revision #1 dated 3/13/2015.

DRAWING E4.1

**REFERENCE: LIGHTING FIXTURE SCHEDULE and GENERAL ELECTRICAL
LEGEND**

- ADD:** Emergency lighting fixtures as indicated by Revision #1 dated 3/13/2015.

- END OF ADDENDUM -

**THESE PLANS AND SPECIFICATIONS
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JOB SITE UNTIL A FINAL CERTIFICATE
OF OCCUPANCY OR PROJECT
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approved set without written permission
of this office.**

TENNESSEE STATE FIRE MARSHAL'S OFFICE

**Job
Site**

M:18058

2015-02-19-02

GENERAL NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS, REPORTS, AND OTHER DOCUMENTS APPROVED BY ALL PERMITTING AUTHORITIES.
2. CONTRACTOR SHALL INSURE THAT HIS OPERATIONS ARE CARRIED OUT IN COMPLIANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL CODES, STATUTES, AND REGULATIONS CONCERNING PROTECTION OF LIVES AND PROPERTY.
3. CONTRACTOR SHALL "HOLD HARMLESS" AND SAVE THE OWNER AND ENGINEER FROM ANY ACTS OF CONTRACTORS, HIS EMPLOYEES, SUBCONTRACTORS, MATERIAL SUPPLIERS, OR OTHERS WHO MAY BE PERFORMING WORK OR DUTIES IN CONNECTION WITH THE CONTRACTOR'S WORK.
4. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ALL NECESSARY WARNING DEVICES FOR PROTECTION OF THE WORK AND SAFETY OF WORKERS AND OTHERS INCLUDING BARRICADES, WARNING SIGNS, AND LIGHTS DURING THE EVENING AND NIGHT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INVESTIGATION AND VERIFICATION OF ALL LOCATIONS, MEASUREMENTS, ELEVATIONS, ETC. BEFORE ORDERING OF ANY MATERIALS AND BEFORE INITIATION OF ANY WORK OR CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER IMMEDIATELY THE EVENT THAT ANY DISCREPANCIES ARE FOUND BETWEEN THOSE INVESTIGATIONS AND THE PLANS SO THAT THEY MAY BE RESOLVED.
6. ALL LAND ON OR OFF SITE WHICH IS DISTURBED AND WHICH IS NOT BUILT UPON OR SURFACED SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION DURING THE CONSTRUCTION PROCESS AND STABILIZED WITH A GOOD STAND OF GRASS UPON PROJECT COMPLETION.

GRADING NOTES:

1. TOPO SURVEY INFORMATION TAKEN FROM SURVEY PERFORMED BY DARNALL & ASSOC., LLC GALLATIN, TN. [PHONE 615-206-8942]
2. CONTRACTOR SHALL STRIP ALL TOPSOIL, VEGETATION, SOFT, LOOSE, OR OTHERWISE UNSUITABLE MATERIAL FROM THE SITE. THIS SHALL INCLUDE REMOVAL OF ANY TREES AND ASSOCIATED ROOT SYSTEM. ANY EXISTING FILL THAT IS POORLY COMPACTED SHALL ALSO BE REMOVED.
3. SITE GRADES AROUND THE PAVEMENT SHALL BE GRADED DURING CONSTRUCTION TO PREVENT PONDING. ANY SURFACE WATER ACCUMULATION IN THE PAVEMENT AREAS SHALL BE REMOVED IMMEDIATELY TO AVOID DISTURBANCE OF THE SUBGRADE SOILS.
4. ALL EXCAVATIONS AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST OSHA GUIDELINES AS MANDATED IN CURRENT FEDERAL, STATE, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING SAFE WORKING CONDITIONS IN CONNECTION WITH ANY EXCAVATION WORK.
5. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SUITABLE MATERIAL NOT USED, ONSITE AT A LOCATION DETERMINED BY THE OWNER'S REPRESENTATIVE. AT THE OWNER'S OPTION ONLY, THE CONTRACTOR MAY BE REQUIRED TO REMOVE SOME MATERIALS OFFSITE AND DISPOSE AT HIS OWN EXPENSE. ALL UNSUITABLE MATERIAL SHALL BE PROPERLY DISPOSED OF OFFSITE.
6. CONTRACTOR SHALL USE EXTREME CARE IN ALL GRADING WORK TO ENSURE THAT ALL EXISTING UTILITY SERVICES REMAIN IN SERVICE. CONTRACTOR SHALL REPAIR, LOWER, OR ADJUST ANY SUCH UTILITY TO MAINTAIN SERVICE AT ALL TIMES.
7. NO GEOTECHNICAL INFORMATION WAS FURNISHED TO ENGINEER.

EROSION CONTROL NOTES:

1. ALL WORK ON THIS SITE PERTAINING TO EXCAVATION, GRADING, AND DRAINAGE SHALL BE IN ACCORDANCE WITH THIS PLAN AND THE APPLICABLE PROVISIONS OF THE SOUTHERN BUILDING CODES.
2. THE PURPOSE OF THIS PLAN IS TO ESTABLISH MINIMUM EROSION AND SEDIMENT CONTROL MEASURES. THIS PLAN IS NOT INTEND TO COVER EACH AND EVERY DETAIL.
3. THROUGHOUT ALL EXCAVATION ACTIVITIES, POSITIVE DRAINAGE SHALL BE MAINTAINED AND SURFACE DRAINAGE PROVIDED GENERALLY IN THE DIRECTION OF EXISTING TOPOGRAPHY OF PROPOSED GRADING PLAN.
4. PROVISIONS SHALL BE MAINTAINED THROUGHOUT THIS PROJECT TO PREVENT ANY SEDIMENT FROM WASHING.
5. WORK SHALL PROGRESS IN SUCH A MANNER AS TO ALLOW EXISTING VEGETATION TO REMAIN AS LONG AS POSSIBLE, CONSISTENT WITH SCOPE OF WORK.
6. EXPOSED AREAS SHALL BE STABILIZED BY ESTABLISHING VEGETATIVE OR OTHER COVER TO PREVENT BARE AREAS FROM EROSION. IMMEDIATELY AFTER CONSTRUCTION, ALL AREAS SHALL PERMANENTLY PROTECTED BY ESTABLISHING A SUITABLE COVER.
7. ALL STRAW BALES OR SILT FENCING SHALL BE STAKED AND PLACED PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPLACE ANY BALES OF FENCING THAT ARE WASHED OUT AND CLEAN UP ANY SILTATION THAT RESULTS FROM HIS WORK.
8. ALL RIPRAP SHALL BE 8" (EIGHT INCH) DIAMETER OR AS NOTED.
9. STAKED STRAW BALES SHALL BE USED AT ANY TEMPORARY STOCKPILES OF MATERIALS TO PREVENT SILTATION OF AREAS OUTSIDE PROPERTY AS NEEDED.
10. ALL AREA DRAINS, CATCH BASINS, AND HEADWALLS SHALL BE PROTECTED FROM SILT BY STAKED STRAW BALES OR SILT FENCING BEING MAINTAINED AROUND ALL EDGES UNTIL A GOOD STAND OF GRASS COVERS AREAS DRAINING TO STRUCTURES.
11. ALL SWALES SHOWN IN GRASS AREAS SHALL BE STABILIZED WITH NORTH AMERICAN GREEN (NAG) S 150 EROSION CONTROL BLANKET (ECB) OR EQUAL.
12. CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROLS UPON COMPLETION OF THIS PROJECT AND AFTER THE AREAS ABOVE THOSE MEASURES HAVE BEEN ADEQUATELY STABILIZED.

SPECIAL NOTES

1. CONTRACTOR SHALL VERIFY THAT THE EXACT LOCATION OF THE REAR FOOTING OF PROPOSED BUILDING IS NOT ON TOP OF EXISTING GEOTHERMAL WELLS PRIOR TO ANY FOOTING CONSTRUCTION.

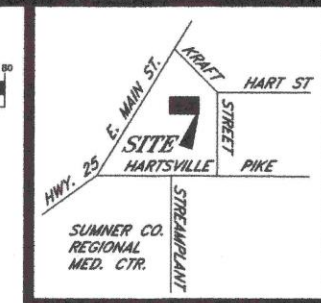
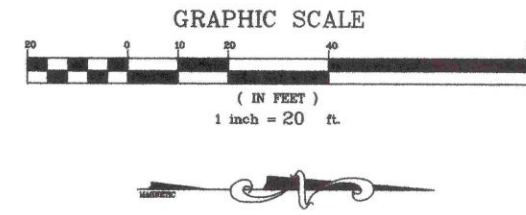
PLANNING AND ENGINEERING NOTES

1. A REVIEW OF F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 4716SC0318D, EFFECTIVE DATE NOVEMBER 21, 2002, SHOWS NONE OF THIS PROPERTY TO BE WITHIN THE 100 YEAR FLOOD PLAIN.
2. ALL CONSTRUCTION AND USE OF THE PROPOSED FACILITY TO MEET THE APPLICABLE PERFORMANCE STANDARDS AS SET FORTH IN THE CITY OF GALLATIN ZONING ORDINANCE, 13.02.
3. NO SIGN IS PROPOSED FOR THIS SITE OR THIS PART OF THE SITE.
4. NO LIGHTING IS PROPOSED FOR THIS SITE OR THIS PART OF THE SITE.
5. NO DUMPSTER IS PROPOSED FOR THIS PART OF THE SITE. OWNER SHALL USE EXISTING DUMPSTER ALREADY IN PLACE.
6. THIS SITE SHALL COMPLY WITH ALL APPLICABLE CROSS-CONNECTION CONTROL REGULATIONS.
7. NO RECORDED P.U.D.E.'S FOR THIS SITE.
8. PROJECT SHALL COMPLY WITH ALL APPLICABLE CROSS-CONNECTION CONTROL REGULATION.

PROPERTY OWNER

SUMNER COUNTY BOARD OF EDUCATION
695 EAST MAIN STREET
GALLATIN, TENNESSEE 37066
CONTACT PERSON: TIM WILLIAMS
TELEPHONE NUMBER: 604-7015
FAX NUMBER: 452-0348

- ZONING: R-10
- SETBACKS:
 - FRONT: 25'
 - REAR: 15'
 - SIDE: 10'
- TAX MAP NUMBER: 113M, GROUP E, PARCEL 028.00
- DEED BOOK: 185, PAGE 421
- PROPOSED USE: ADULT NIGHT CLASSES
- PROPOSED BUILDING MATERIALS: BRICK

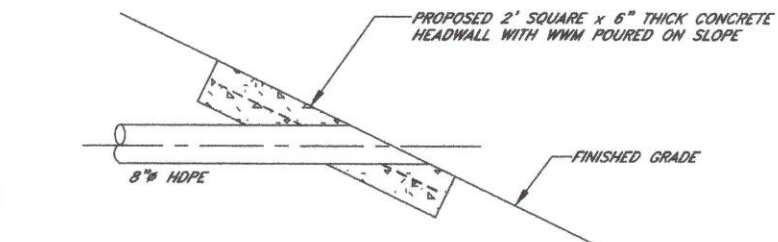


LOCATION MAP

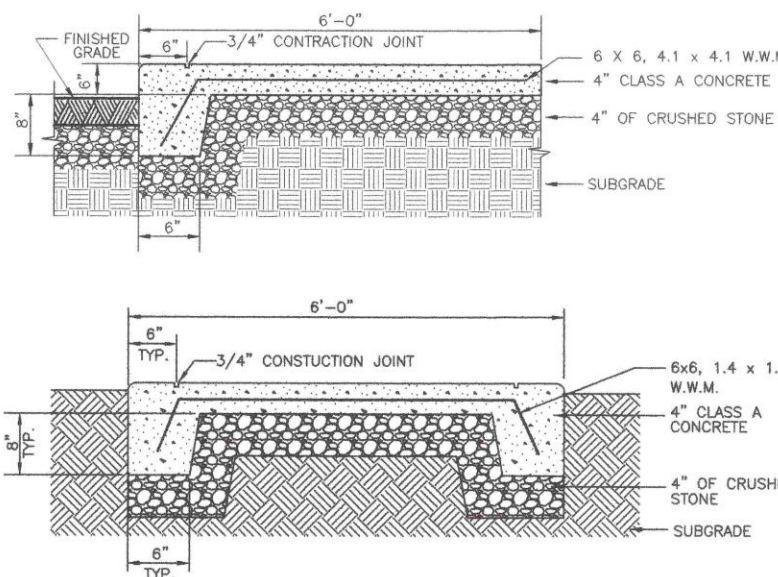
THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

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TENNESSEE STATE FIRE MARSHAL'S OFFICE



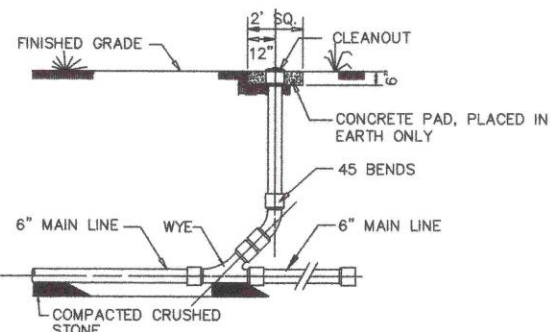
HEADWALL DETAIL



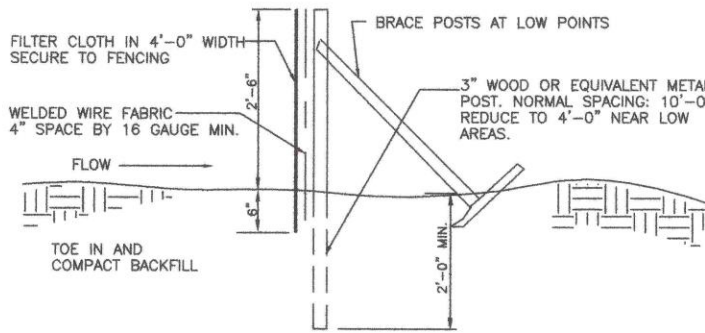
SIDEWALK NOTES:

1. 1/2" EXPANSION JOINT MATERIAL @ 30' O.C. MAXIMUM.
2. SAWCUT 1" DEEP CUT OR TOOLED CONTROL JOINT @ 6' O.C. MAXIMUM OR AS SHOWN ON PLANS.

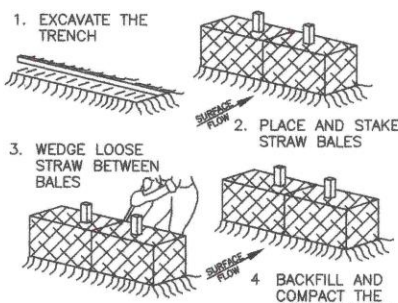
CONCRETE SIDEWALK DETAIL



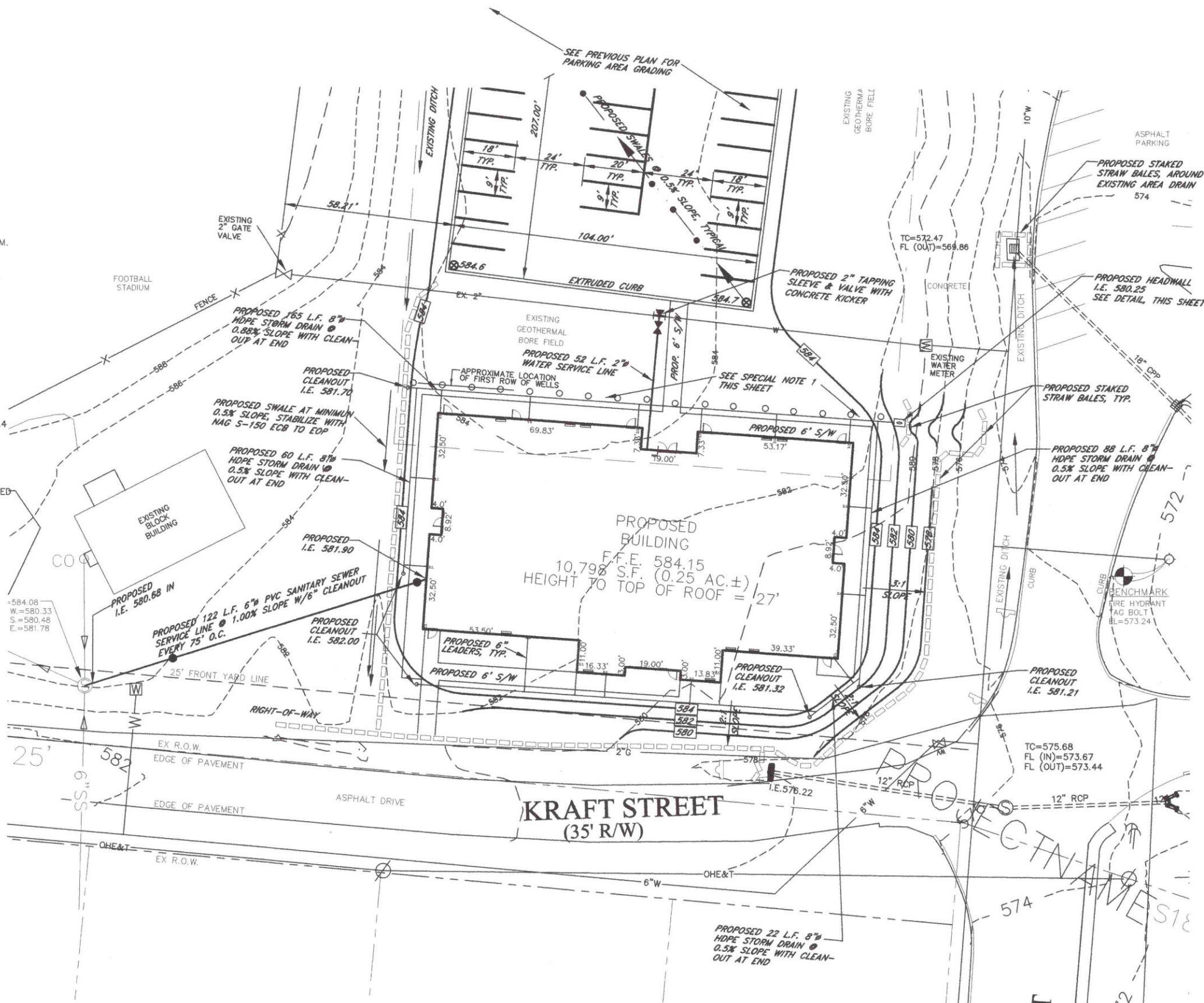
CLEANOUT DETAIL



SILT FENCE DETAIL



CONSTRUCTION OF A STRAW BALES BARRIER



Johnson +
Bailey
Architects
P.C.

City Center
100 East Vine St.
Murfreesboro Tennessee
37130

615-890-4560
Fax: 615-890-4564

DARNALL & ASSOCIATES, INC.
CONSULTING ENGINEERS
106-C WEST HILL DRIVE
LEBANON, TENNESSEE 37087
PH: (615)443-0424; FAX: (615)443-0423
E-MAIL: PTDEWAL@BELLSOUTH.NET

ADULT
EDUCATION
BUILDING

Sumner County
Board of Education

REVISIONS DATE

REVISIONS	DATE

NOTES

THIS DRAWING SHALL NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.



PROJECT NO. 0409
DATE 08-05-04
DRAWN BY P. Thacker
SCALE 1" = 20'

SITE PLAN
NOTES AND
DETAILS

C2.1

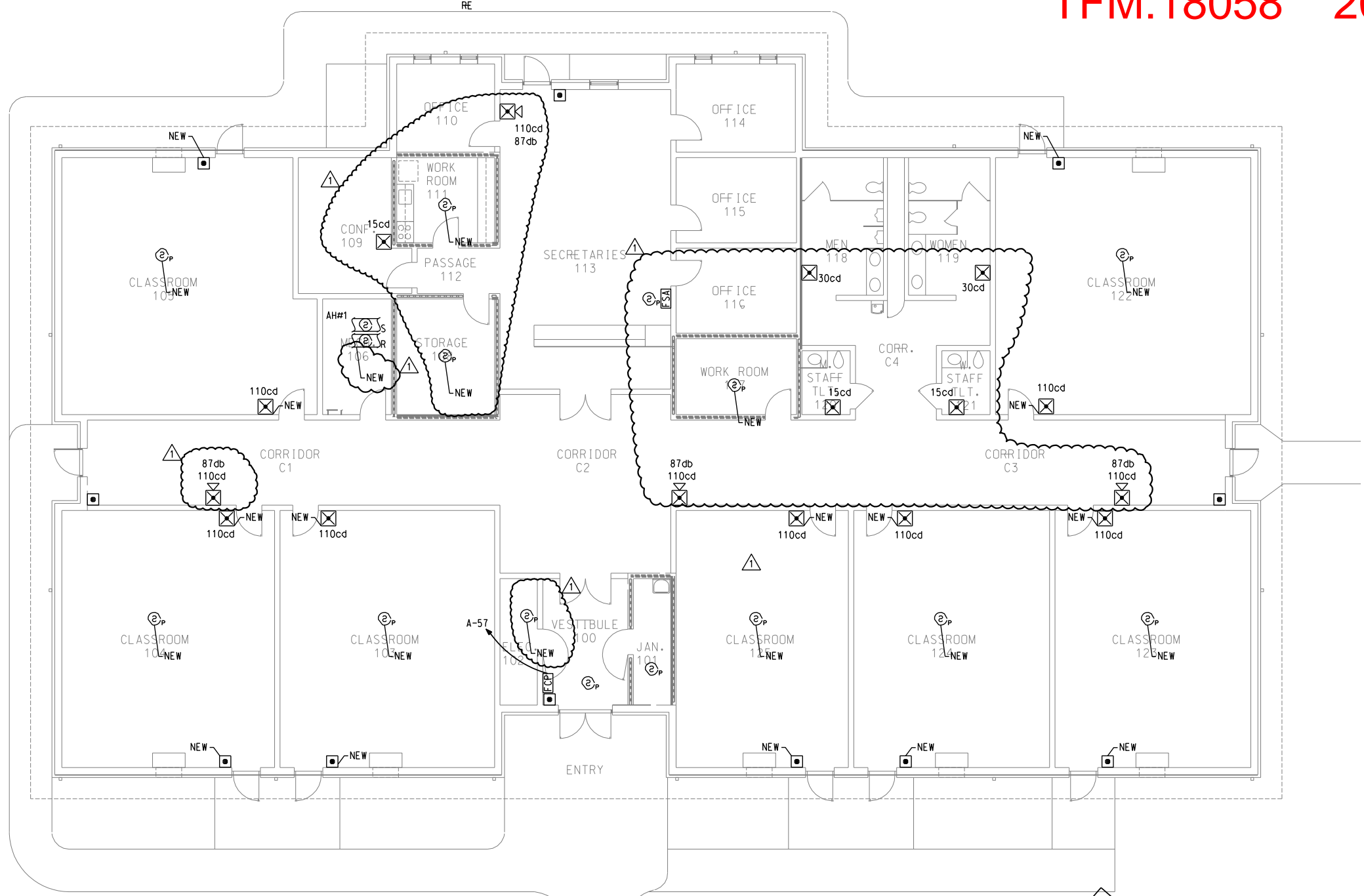
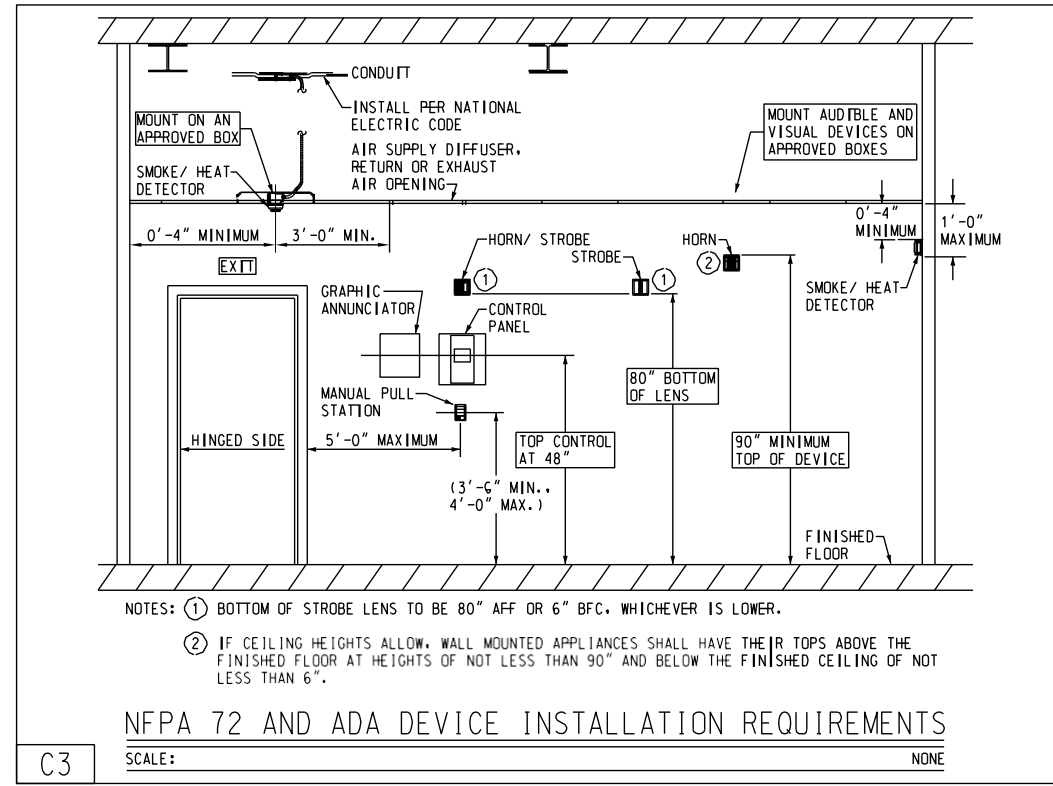
Job Site

E1.1

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

FIRE ALARM GENERAL NOTES:

- A. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE PROTECTION, ALARM AND COMMUNICATION SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION AND TESTING OF THE FIRE DETECTION, ALARM AND COMMUNICATION SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM.
- B. FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991, TCA TITLE 62, CHAPTER 32.
- C. ALL AUDIBLE NOTIFICATION DEVICES ARE TO HAVE A 87db RATING AT 10 FEET. REFER TO SPECIFICATION SECTION 16721.
- D. THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING AND SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. PROVIDE "LOCK-ON" DEVICE FOR BREAKER(S) SERVING FIRE ALARM CONTROL UNITS.
- E. ALL ITEMS ARE SHOWN AS EXISTING TO REMAIN UNLESS NOTED AS NEW BY THE ITEM.



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reduction
80 % / in.

LIGHTING FIXTURE SCHEDULE						
	TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMPS QTY TYPE	MOUNTING
**	A	COLUMBIA	ST824-432G-FSA12-125-EB8-120	120	4 32W T8	RECESSED
		METALUX				
		LIGHTOLIER				
**	AE	COLUMBIA	ST824-432G-FSA12-125-EB-120-EM WITH BODINE B50	120	4 32W T8	RECESSED
		METALUX				
		LIGHTOLIER				
**	B	COLUMBIA	CS4-232-EB-CSWG4	120	2 32W T8	SURFACE
		METALUX				
		LIGHTOLIER				
**	C	PHRESCOLITE	CFT632EB-STF602-BG	120	1 42W T8T	RECESSED
		HALO				
		CALCULITE				
* 	D	DUAL LTITE	EV-2-I	120	— INCL.	SURFACE
		SURE-LITES				
		LIGHTOLIER				
*	X	DUAL LTITE	SE-S-R-W-E-I	120	— INCL.	SURFACE
		SURE-LITES				
		LIGHTOLIER				
*	X1	DUAL LTITE	EVC-U-R-W-D4-D-EVO-D-B	120	— LED'S	SURFACE
		SURE-LITES				
		LIGHTOLIER				
**		DUAL LTITE	SES RWE	120	— INCL.	SURFACE
		SURE-LITES				
		LIGHTOLIER				

NOTE: ALL BALLASTS MUST BE ADVANCE+ MOTOROLA OR GENERAL ELETRIC
* NEW
** EXISTING

















































GENERAL NOTES AND SPECIFICATIONS


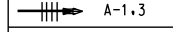
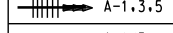

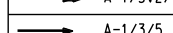
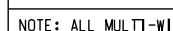
- A. GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
B. COMPLY WITH THE NEC 2011, STATE, AND LOCAL CODES.
C. USE ONLY COPPER CONDUCTORS AS NOTED. MINIMUM SIZE #12 AWG. USE TYPE THHN, UON. ALL CIRCUITS SHALL BE COLOR CODED.
D. USE MINIMUM 1/4" CONDUIT. USE 3/4" MINIMUM GALVANIZED COATED WITH ASPHALTUM OR SCHEDULE 40 PVC IN CONCRETE BELOW GRADE. FOR PVC, TRANSITION TO RIGID BEFORE EMERGING FROM BELOW. USE EMT WHERE CONCEALED IN WALLS AND CEILINGS. USE RIGID IN SLAB AND UNDERGROUND.
E. USE STAINLESS STEEL DEVICE COVER PLATES, UON.
F. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED, COMMERCIAL GRADE.
G. USE HUBBELL WIRING DEVICES AS FOLLOWS:

SWITCHES - 15 AMP, #1201-I, 1202-I, 1203-I
SWITCHES - 20 AMP, #1221-I, 1222-I, 1223-I, 1224-I
SWITCHES - MOTOR STARTERS, USE SQUARE D CLASS 2510
RECEPTACLES - 15 AMP, #5252-I, 5262-I FOR GENERAL PURPOSES.
RECEPTACLES - 20 AMP, S663H-I FOR SAFETY TYPE.
RECEPTACLES - GFCI, GF5262-I (15A), GF5362-I (20A).
ALL WIRING MUST BE IN CONDUIT.

- H.
I. EQUIPMENT OUTSIDE MUST BE WEATHERPROOF. USE HEAVY DUTY DISCONNECT SWITCHES.
J. CONDUIT OUTSIDE MUST BE GALVANIZED STEEL OR PVC, AS NOTED ABOVE.
K. USE 6' MAXIMUM LENGTH OF FLEXIBLE CONDUIT TO FIXTURES.
L. USE BUSS TYPE LPS OR LPN FUSES FOR MOTORS AND EQUIPMENT. ~~REMOVES TEMPERATURE WITHIN 100 DEGREES F. WORKMANSHIP REMOVED EXISTING WIRING UPON COMPLETION OF WORK.~~
O. USE "PATE" PIPE SEALS FOR CONDUIT THROUGH ROOF. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT. USE "A" SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT. UTILITIES, MECHANICAL EQUIPMENT AND EQUIPMENT FURNISHED BY OWNER PRIOR TO ROUGH-IN.
P. PANELBOARDS ARE EXISTING CUTLER HAMMER, UON. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PANELBOARDS.
R. ASLTWOMASHACK181800RDANEDONW18BROWNSR8688686

- S. INSTALL CONTROL WIRING IN MINIMUM 1/2" CONDUIT FOR ALL HVAC UNITS TO THERMOSTATS AND ROOF TOP UNITS, ETC. SEE MECHANICAL CONTROL AND MANUFACTURER'S DRAWINGS.
T. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.
U. FLUORESCENT LAMP EMERGENCY POWER SUPPLY SHALL BE ONE LAMP AS SCHEDULED ON THE PLANS PROVIDING 1100-1400 LUMENS, MINIMUM. THE BATTERY SHALL BE A NICKEL CADMIUM TYPE, RATED FOR A TEN YEAR LIFE. INCLUDE TEST SWITCH AND AC ON INDICATOR LIGHT, INSTALLED TO BE OPERABLE AND VISIBLE FROM THE OUTSIDE OF AN ASSEMBLED LUMINAIRE.

GENERAL ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
	CEILING OUTLET, SURFACE FIXTURE	
	CEILING OUTLET, RECESSED FIXTURE	
	CEILING OUTLET, RECESSED FIXTURE w/BATTERY BACK UP	
	BRACKET OUTLET	
	RECESSED FLUORESCENT LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHT FIXTURE	
	AREA OR STREET LIGHTING FIXTURE	
	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
	SINGLE POLE SWITCH	48" AFF
	THREE-WAY SWITCH	48" AFF
	DUPLEX GROUNDING RECEPTACLE	18" AFF
	DUPLEX GROUNDING RECEPTACLE (MOUNTED ABOVE COUNTER)	ABC
	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
	RECEPTACLE FOR TELEVISION	6"BLW CLG
	JUNCTION OR PULL BOX	
	MOTOR, E.F. DENOTES EXHAUST FAN	
	MANUAL MOTOR STARTER OR RELAY CONTROL	
	MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	
	SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	
	LIGHTING OR POWER PANEL	
	MAIN OR SUB-DISTRIBUTION PANEL	
	TIME CLOCK - SEE SPECS	
	CONTACTOR - SEE SPECS	
	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
	CONDUIT, CONCEALED IN CEILING OR WALL	
	CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
	CONDUIT, EXPOSED	
	CONDUIT, TURNING UP	
	CONDUIT, TURNING UP	
	WEATHERPROOF	
	GROUND FAULT CURRENT INTERRUPTING	
	ABOVE FINISHED FLOOR	
	UNLESS OTHERWISE NOTED	
	GENERAL CONTRACTOR	
	MECHANICAL CONTRACTOR	
	ELECTRICAL CONTRACTOR	
	ELECTRIC DRINKING FOUNTAIN	
	AIR CONDITIONING UNIT	
	FURNISHED BY OTHERS	
	TELEPHONE TERMINAL BOARD	
	TRANSIENT VOLTAGE SURGE PROTECTOR	
	MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1" C. TO ABOVE CEILING)	18" AFF
	MULTI USE OUTLET FOR VOICE, DATA, VIDEO ABOVE COUNTER (1" C. TO ABOVE CEILING)	ABC
	TELEVISION HEAD-END EQUIPMENT	
	SPEAKER, CEILING MOUNTED	
	CLOCK OUTLET, WALL MOUNTED	6'- 8" AFF
	RANGE OUTLET	8" AFF
	EMERGENCY LIGHT WALL MOUNTED AT 7'-6" AFF, UON	

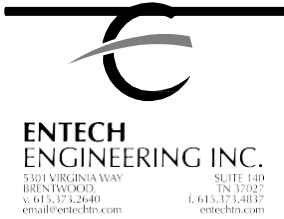
BRANCH CIRCUITING LEGEND		
	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
	A-1,3	TWO 1-POLE CKT HOMERUNS TO PANEL A
	A-1,3,5	THREE 1-POLE CKT HOMERUNS TO PANEL A
	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
	A-1/3,2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A
NOTE: ALL MULTI-WIRE BRANCH CIRCUITS TO COMPLY WITH 2008 NEC 210.4		

TFM:18058 2015-02-19-02




City Center
100 East Vine St
Murfreesboro Tennessee
37130

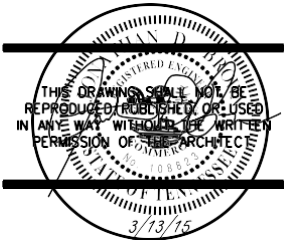
615-890-4560
Fax: 615-890-4564



Change of Use
Business to Educational

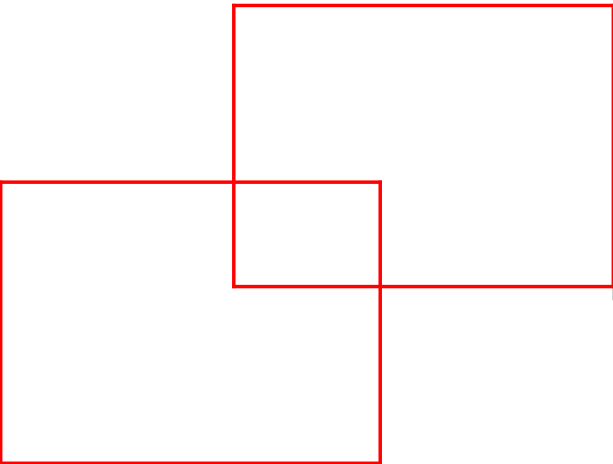
E.B.WILSON
Sumner County
Building Department

REVISION	DATE
 REVISION #1 - 3/13/2015	
NOTES:	



NO. 1407
DATE 2/18/15
DRAWN BY E.E.L.
CHECKED BY

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PROJECT

E.E.I.

E4.1