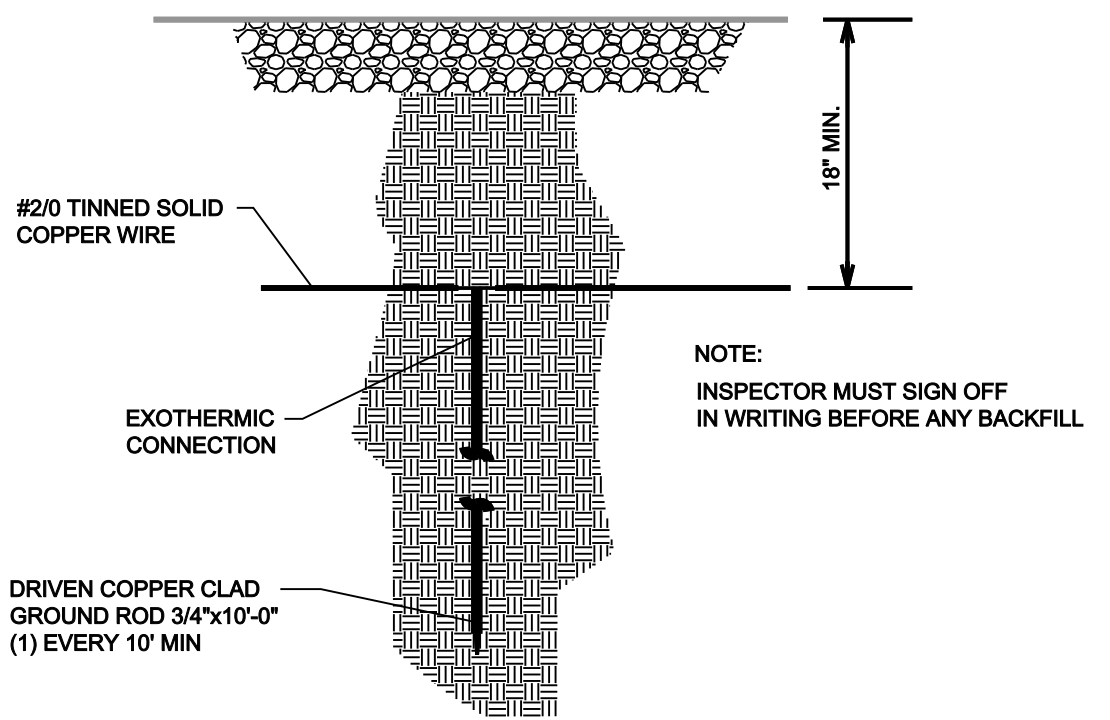
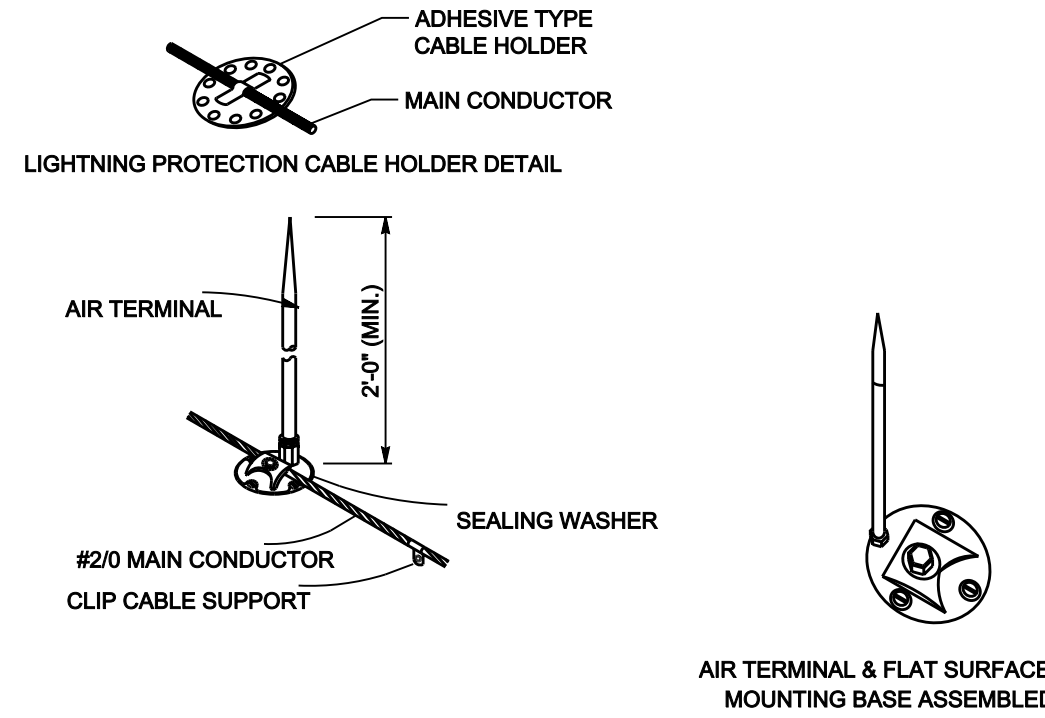


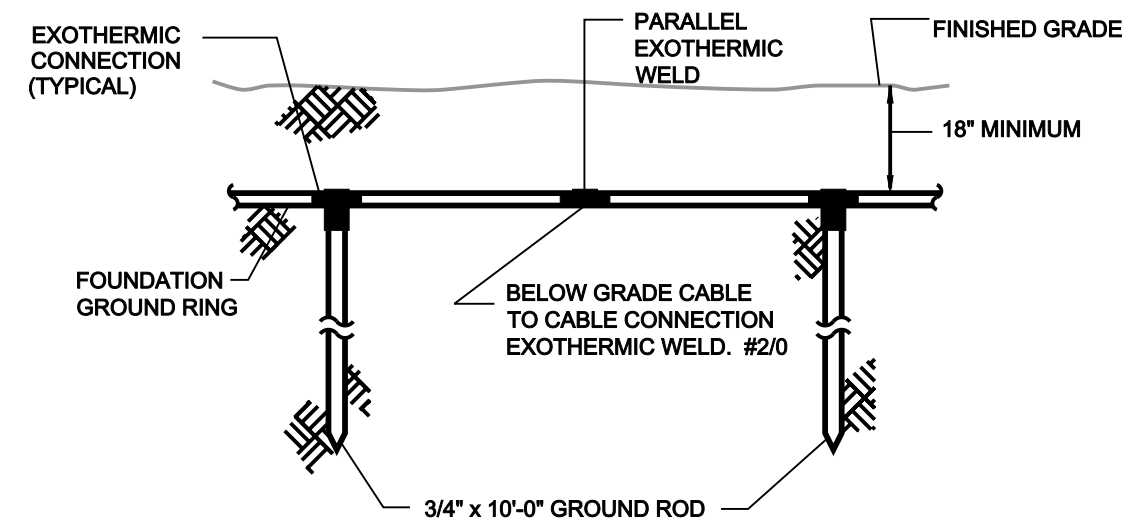
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 M:\2008\12082008-FireStation\ENGR\BIM\Con_Docs\CAD_Sheets\Electrical\F_S_E-104.dgn



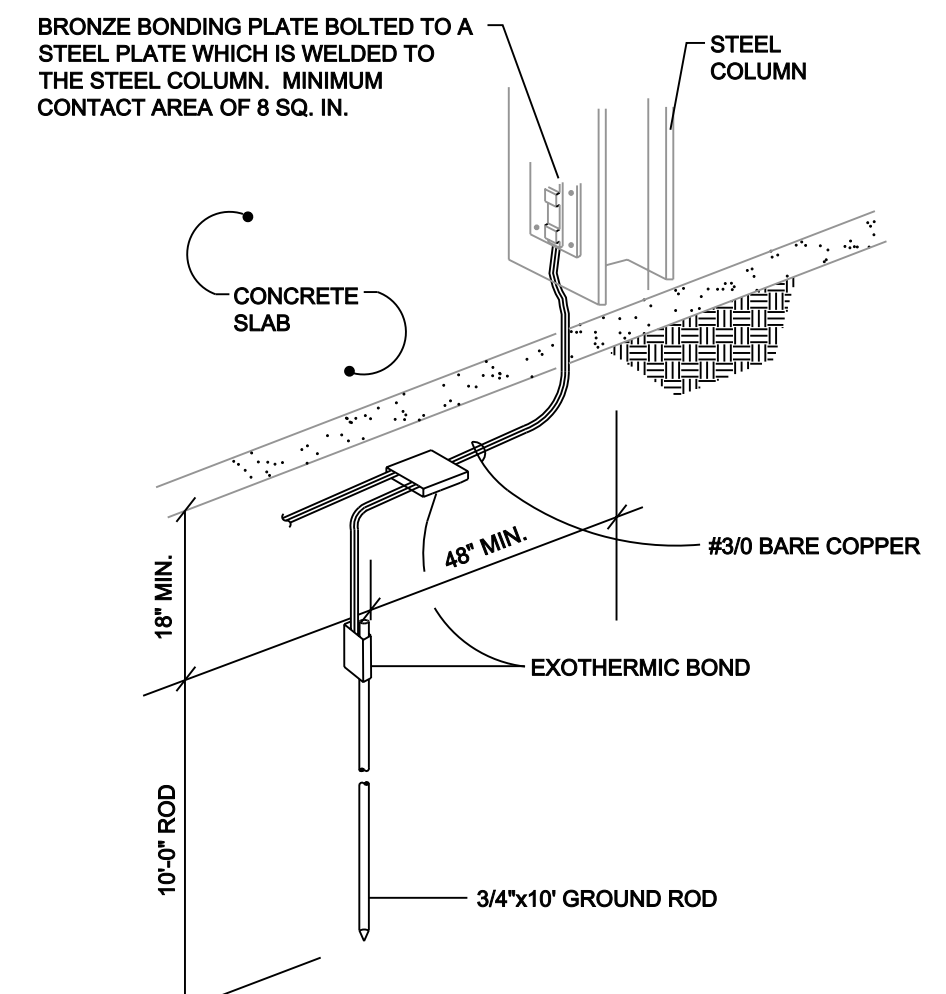
2
E-104
GROUND ROD / RING LOCATION
SCALE: NOT TO SCALE



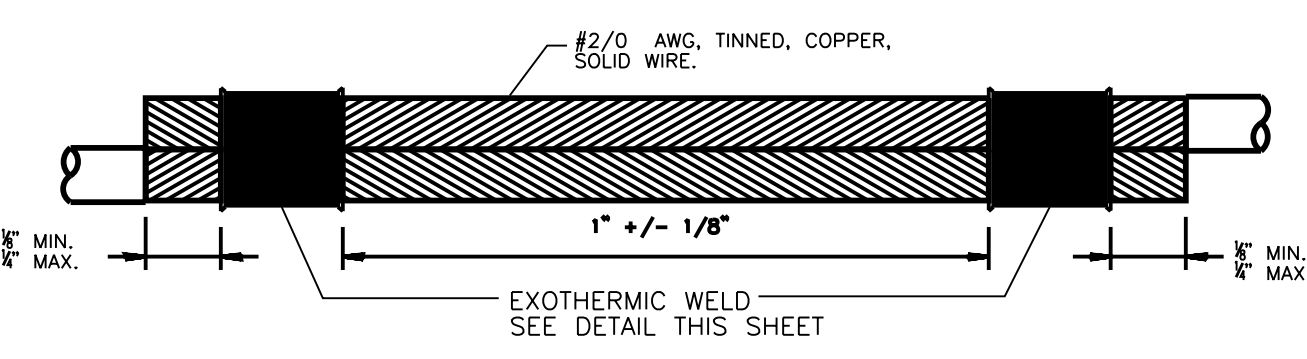
3
E-104
AIR TERMINAL DETAIL
SCALE: NOT TO SCALE



4
E-104
BELOW GRADE CABLE TO CABLE CONNECTION
SCALE: NOT TO SCALE



5
E-104
STEEL COLUMN BONDING
SCALE: NOT TO SCALE



6
E-104
BELOW GRADE PARALLEL EXOTHERMIC WELD
SCALE: NOT TO SCALE

LIGHTNING SYSTEM REQUIREMENTS

CONFORM WITH PROVISIONS OF NFPA 780, "STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS".

ALL COMPONENTS SHALL BE COPPER. GROUND RODS MAY BE COPPER CLAD STEEL.

MAIN CONDUCTOR SHALL #2/0 AWG

COUNTERPOISE SHALL BE BURIED APPROXIMATELY 10 FEET FROM BUILDING FOUNDATION AT NOT LESS THAN 18" BELOW GRADE.

COUNTERPOISE SHALL BE INTERCONNECTED WITH METALIC WATER SYSTEM, UTILITY TRANSFORMER GROUNDING SYSTEMS, COUNTERPOISE ASSOCIATED WITH OTHER NEARBY BUILDINGS (LESS THAN 50 FEET DISTANT).

EXPOSED CONNECTIONS MAY BE MECHANICALLY JOINED; CONCEALED CONNECTIONS SHALL BE EXOTHERMIC.

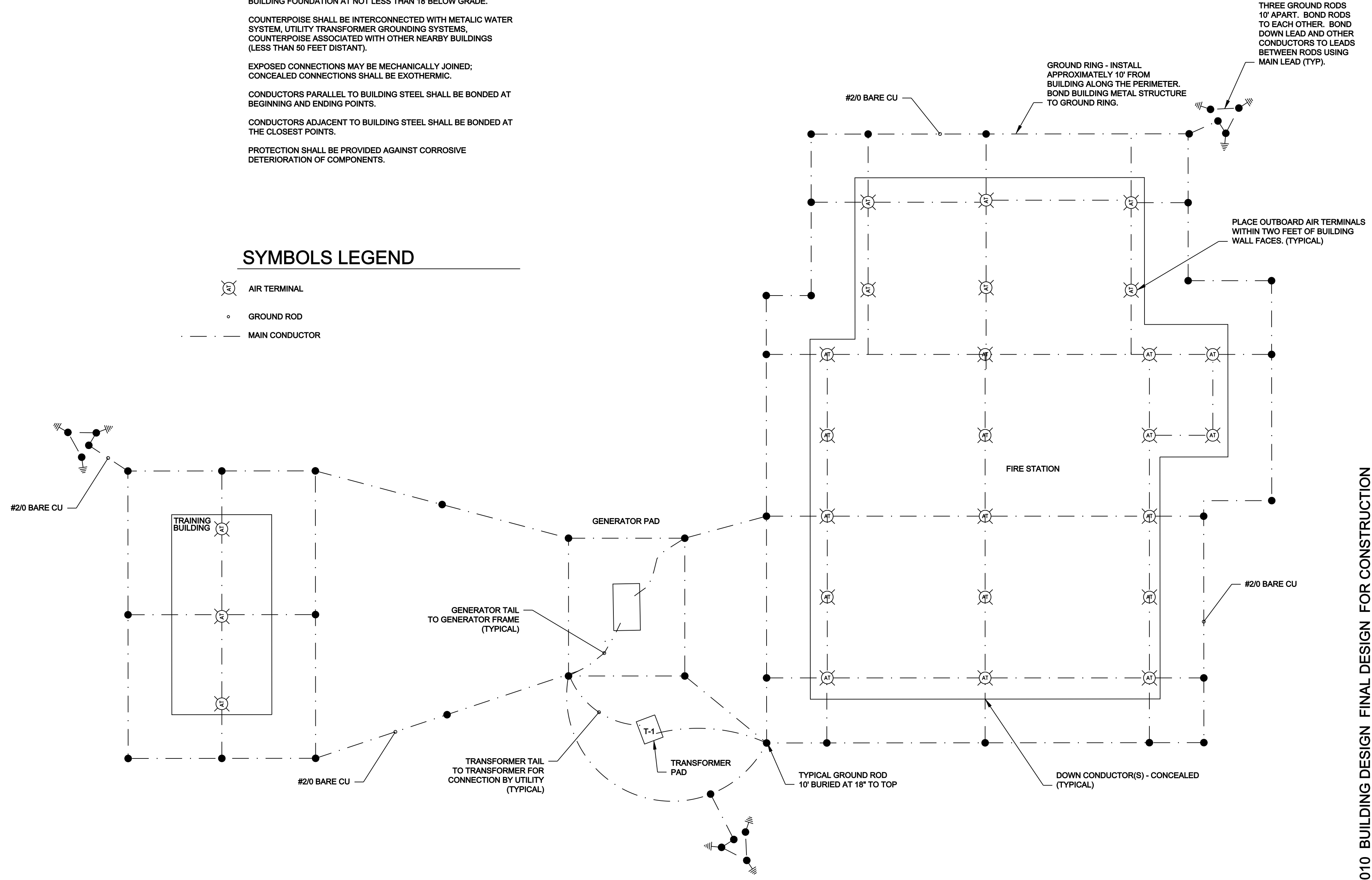
CONDUCTORS PARALLEL TO BUILDING STEEL SHALL BE BONDED AT BEGINNING AND ENDING POINTS.

CONDUCTORS ADJACENT TO BUILDING STEEL SHALL BE BONDED AT THE CLOSEST POINTS.

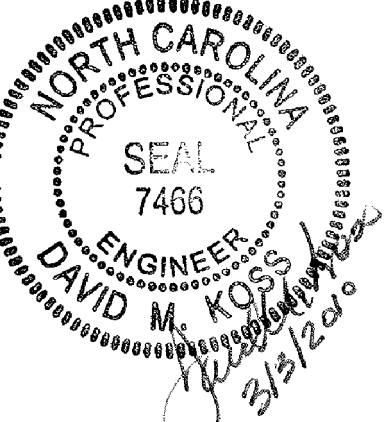
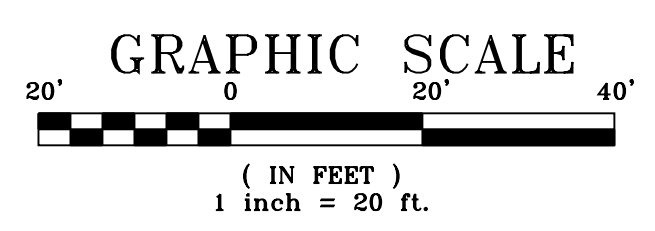
PROTECTION SHALL BE PROVIDED AGAINST CORROSIVE DETERIORATION OF COMPONENTS.

SYMBOLS LEGEND

- AIR TERMINAL
- GROUND ROD
- MAIN CONDUCTOR



1
E-104
LIGHTNING PLAN
SCALE: 1" = 20'-0"



3 MARCH 2010 BUILDING DESIGN FINAL DESIGN FOR CONSTRUCTION

15TH STREET FIRE STATION
 FORT STEWART, GEORGIA
**LIGHTNING PLAN -
 FIRE STATION**

SHEET IDENTIFICATION
E-104
 SHEET 110 OF 117

MARK	DESCRIPTION	DATE	APPR.	DATE	APPR.
A	100% PRE-FINAL DESIGN	11/06/09			
B	FINAL DESIGN FOR CONSTRUCTION	03/03/10			

DESIGNED BY: SMH	DATE: 28-JUL-2009	DESIGNED BY: SMH	DATE: 28-JUL-2009
DRAWN BY: SMH	DATE: 28-JUL-2009	DRAWN BY: SMH	DATE: 28-JUL-2009
SUBMITTED BY: KCI TECHNOLOGIES	CONTRACT NO.:	SUBMITTED BY: KCI TECHNOLOGIES	CONTRACT NO.:
PLOT SCALE:	AS NOTED	PLOT SCALE:	AS NOTED
FILE NAME:	ANSI D	FILE NAME:	ANSI D

U.S. ARMY CORPS OF ENGINEERS
 HUNTSVILLE CENTER
 15TH STREET FIRE STATION
 FORT STEWART, GEORGIA
**LIGHTNING PLAN -
 FIRE STATION**