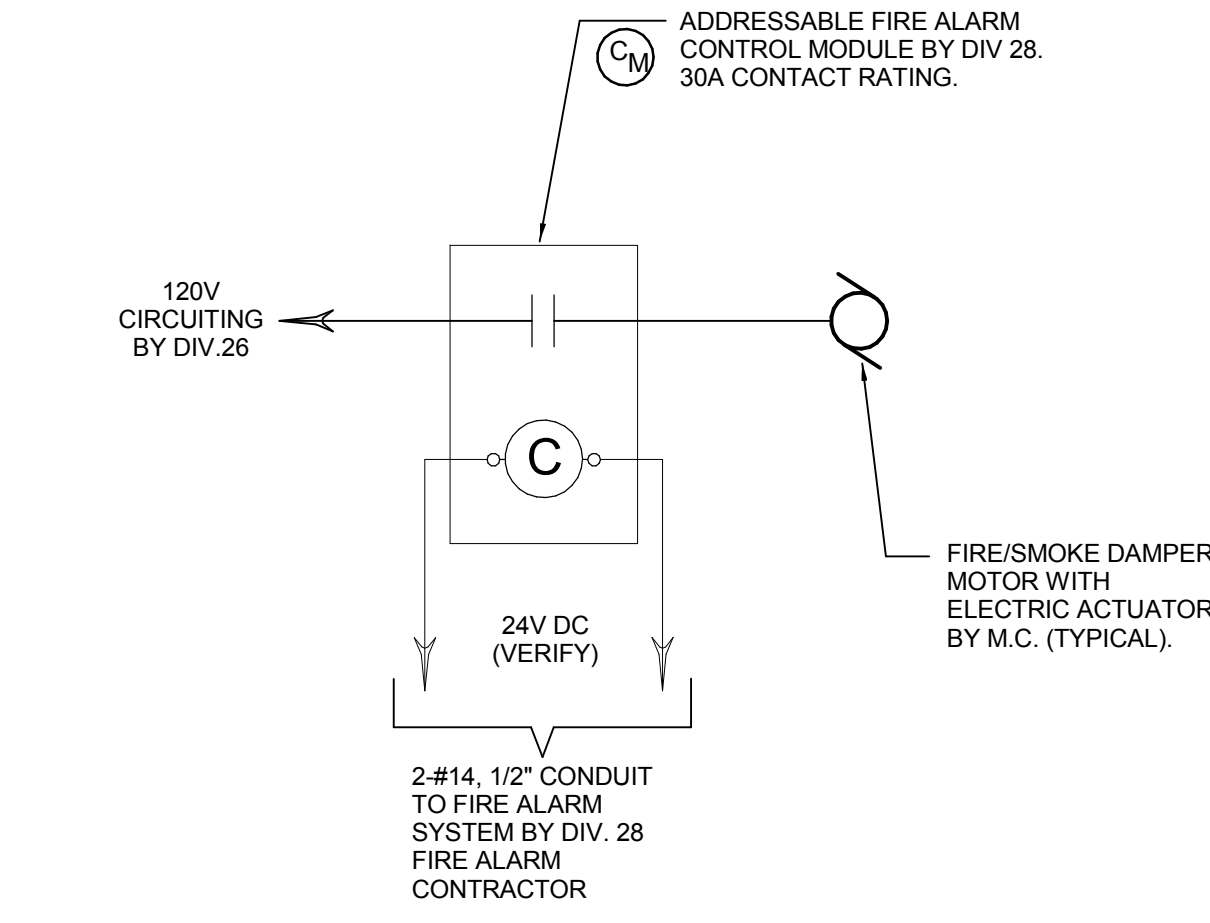


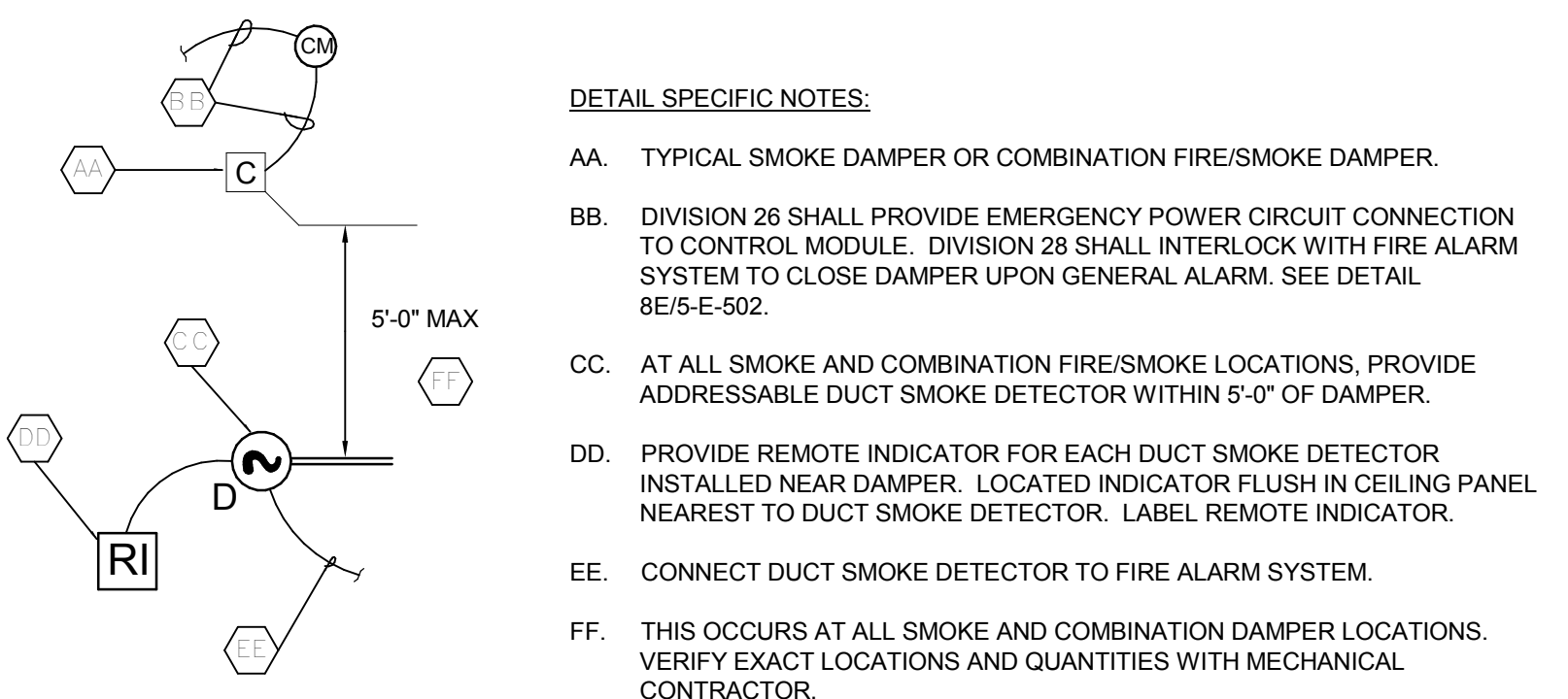
GENERAL NOTES:

1. CONCRETE TESTING: 3000 LBS. MIN. PER SQ. INCH; 4X TO 6X ENTRAINED AIR, 3/4" MAXIMUM SIZE AGGREGATE.
2. REINFORCING STEEL: ASTM-A615 GRADE 60, PLACE APPROX. 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
3. MINIMUM CONCRETE COVER OVER REINFORCING STEEL 2" UNLESS OTHERWISE NOTED.
4. WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.

3-PHASE TRANSFORMER KVA	PAD DIMENSIONS					REINFORCING BARS			
	A	B	C	D	E	MK1	MK2	MK3	MK4
75, 112-1/2, 150, 225, 300, 500	6'-4"	5'-2"	10"	3'-4"	6"	7#4 10"	6#4 10"	6#4 57"	4#4 26"
750, 1000, 1500, 2000	8'-10"	9'-4"	10"	4'-6"	6"	12#4 98"	6#4 19"	6#4 94"	4#4 22"



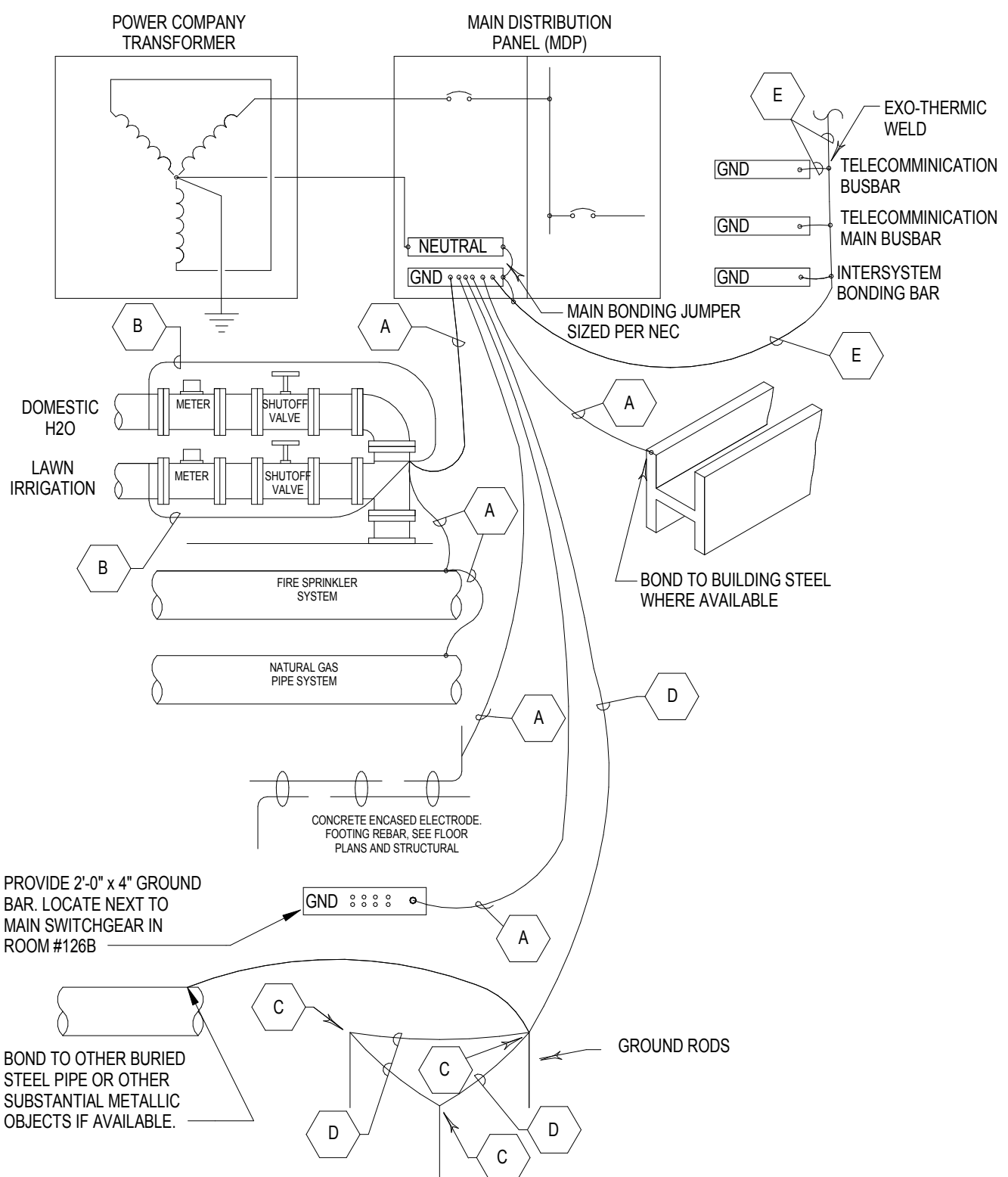
- DETAIL SPECIFIC NOTES:
1. VERIFY AND COORDINATE WITH DIV. 23 ON THE QUANTITIES, LOCATIONS AND ELECTRICAL CHARACTERISTICS OF ALL FIRE/SMOKE DAMPER MOTORS.
 2. VERIFY AND COORDINATE WITH THE FIRE ALARM EQUIPMENT INSTALLER FOR INTERCONNECTION REQUIREMENTS FROM CONTROL MODULE TO FIRE ALARM SYSTEM.
 3. 120V CONNECTION BETWEEN CONTROL MODULE AND DAMPER MOTOR ACTUATOR SHALL BE PROVIDED BY DIV. 28.



- DETAIL SPECIFIC NOTES:
- AA. TYPICAL SMOKE DAMPER OR COMBINATION FIRE/SMOKE DAMPER.
- BB. DIVISION 26 SHALL PROVIDE EMERGENCY POWER CIRCUIT CONNECTION TO CONTROL MODULE. DIVISION 28 SHALL INTERLOCK WITH FIRE ALARM SYSTEM TO CLOSE DAMPER UPON GENERAL ALARM. SEE DETAIL 8E15-E-502.
- CC. AT ALL SMOKE AND COMBINATION FIRE/SMOKE LOCATIONS, PROVIDE ADDRESSABLE DUCT SMOKE DETECTOR WITHIN 5'-0" OF DAMPER.
- DD. PROVIDE REMOTE INDICATOR FOR EACH DUCT SMOKE DETECTOR. INSTALL NEAR DAMPER. LOCATED INDICATOR FLUSH IN CEILING PANEL. NEAREST TO DUCT SMOKE DETECTOR. LABEL REMOTE INDICATOR.
- EE. CONNECT DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM.
- FF. THIS OCCURS AT ALL SMOKE AND COMBINATION DAMPER LOCATIONS. VERIFY EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL CONTRACTOR.

1F GROUNDING DETAIL

No Scale

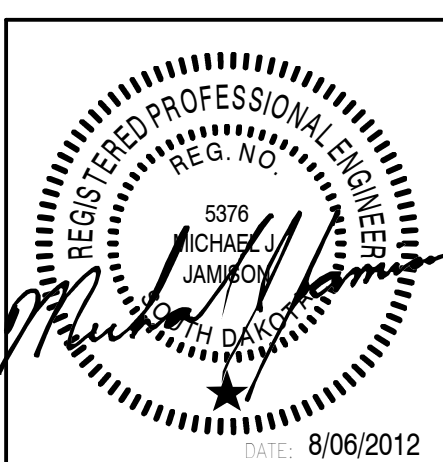


KEYNOTES

- A. GROUNDING ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE, AS SHOWN. SIZE PER NEC TABLE 250.66.
- B. BOND WATER SYSTEMS AROUND ALL VALVES AND METERS PER NEC.
- C. CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD WITH GROUND CONNECTOR.
- D. #6 AWG BARE COPPER CONDUCTOR.
- E. #30 AWG BARE COPPER CONDUCTOR.
- F. SYSTEM BONDING JUMPER SHALL NOT BE SMALLER THAN THE SIZES SHOWN IN NEC TABLE 250.66. WHERE THE SUPPLY CONDUCTORS ARE LARGER THAN 1100CMIL COPPER, THE BONDING JUMPER SHALL HAVE AN AREA THAT IS NOT LESS THAN 1% TO 12 PERCENT OF THE AREA OF THE LARGEST PHASE CONDUCTOR.

4F TRANSFORMER PAD DETAIL

No Scale



ARCHITECTS/ ENGINEERS:

TSP, Inc.
1112 N. West Ave.
Sioux Falls, SD 57104
phone: (605) 336-1160
fax: (605) 336-1926
www.teamtsp.com

TSP

To Solve. To Excel. Together.

Drawing Title
ELECTRICAL DETAILS

Approved: Project Director

Project Title
**Sioux Falls VA Health Care System
Acute Inpatient Medical Unit Addition
and Renovation**

Location
VA Medical Center
2801 W. 22nd Street, PO Box 5046
Sioux Falls, SD 57117-5046

Date
08/06/2012

Checked
MJJ

Drawn
KAK

Project Number
04100857

Building Number
5

Drawing Number
5-E-502

Dwg. 119 of 123

Office of
Construction
and Facilities
Management

