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| REVISIONS | NO. |
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| DATE | 10-17-16 |
| SCALE | AS NOTED |
| DRAWN | -/SK/- |
| CHECKED | SR |
| REG No. | 16445 |
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ELECTRICAL
 DETAILS

E5.1

CONSULTING SYSTEMS
UL
 SYSTEM

WL 1158

1 and 2 Hour Fire Rated Through Penetration Fireslop for Single Metal Pipe through Gypsum Wall Assemblies using TREMCO 1A.

F-Rating = 1 and 2 Hr.
 T-Rating = 1/4 Hr.

Drawing not to scale

TREMCO
 3735 Green Rd.
 Beachwood, OH, 44122

- Pre-Rated Gypsum Wallboard/Steel Wall Assembly
- Metallic Pipe - 1/2" diam. (or smaller) SCH. 10 (or heavier) steel pipe
- Iron Pipe - 1/2" diam. (or smaller) cast or ductile iron pipe
- Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper pipe
- Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper pipe
- Conduit - 4" diam. (or smaller) EMT or 6" diam. (or smaller) steel conduit. The annular space shall be min. 0" to max. 1" within the fireslop system. Min. 3/8" cant bead of sealant to be applied at areas of joint contact.

CONSULTING SYSTEMS
UL
 SYSTEM

CAJ 1064

2 and 4 Hour Fire Rated Through Penetration Fireslop for Single Metal Pipe through Concrete Floors or Walls using FYRE-SIL.

F-Rating = 2 and 4 Hr.
 T-Rating = 0 Hr.

Drawing not to scale

TREMCO
 3735 Green Rd.
 Beachwood, OH, 44122

- Pre-Rated Concrete Floors or Block Walls. See Table below for min. thickness.
- Metallic Pipe - A) Steel Pipe - 4" diam. (or smaller) SCH. 10 (or heavier) steel pipe. B) Iron Pipe - 4" diam. (or smaller) cast or ductile iron pipe. C) Conduit - 4" diam. (or smaller) EMT or steel conduit.
- Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper pipe. D) Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper pipe.
- Packing Material - See Table below for the mineral wool insulation requirements.
- FYRE-SIL - Min. 1/2" thickness of sealant applied within annulus, flush with top of floor surface or with both sides of the wall assembly. Min. Thickness of Concrete: in. 4-1/2. Min. Density: pcf 130. Min. HR. 2. Range: in. 0 to 1-7/8. 5

SPD CONNECTION 3-PH DETAIL

NOT TO SCALE

NOTES:

- ALL WIRING AND PHYSICAL SPACE SHALL BE PER SPD MANUFACTURER'S REQUIREMENTS.
- ALL WIRING SHALL BE EXCEPT AS NOTED.
- PROVIDE CONNECTION TO EQUIPMENT GROUND BAR AND CHASSIS.
- WIRE LENGTH SHOULD BE AS SHORT AND STRAIGHT AS POSSIBLE WITH SPD UNIT ADJACENT TO THE CIRCUIT BREAKER TO WHICH IT IS CONNECTED. THE SOURCE BREAKER FEEDS END OF PANEL IN FIRST AVAILABLE POSITION AS CLOSE AS POSSIBLE TO NEUTRAL BAR.

SPD BASIS OF DESIGN MANUFACTURER IS POWER SYSTEM INNOVATION CORPORATION PSLI. APPROVED MANUFACTURERS ARE: JOSTYN PSLI, CURRENT TECHNOLOGY, SO-D, AND ACT COMMUNICATIONS. MUST COMPLY WITH UL 1449 SPD OR CURRENT ADDITION AND MUST BE RATED PER MODE. ALL MAINS - 200 KA DISTRIBUTION BREAKER, BRANCH BREAKER, TALL MODE PROTECTION. CONTRACTOR MUST CONTACT SPD MANUFACTURER PRIOR TO START OF THE PROJECT AND OBTAIN ALL REQUIREMENTS. VENDOR MAY ADD TO, AND/OR DELETE FROM, THE NOTED EQUIPMENT SHOWN ON THE PLANS. CONTRACTOR MUST CONTACT THE NOTED EQUIPMENT MANUFACTURER'S AND OBTAIN ALL REQUIREMENTS. VENDOR MAY ADD TO, AND/OR DELETE FROM, THE NOTED EQUIPMENT SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN SERVICES OF A QUALIFIED AGENCY TO MEASURE, VERIFY, AND CERTIFY THE GROUND SYSTEM PROVIDED. CONTRACTOR SHALL OBTAIN SERVICES OF A QUALIFIED AGENCY TO MEASURE, VERIFY, AND CERTIFY THE GROUND SYSTEM PROVIDED. REPORT TO OWNER AND ARCHITECT.

PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

CHECK SET 10/19/16

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PI: 16445