

reut1an1 T79CWW161FRW023 TMS
PLOTTER: 12/5/2018 9:35:21 AM
pw81.ad.dot.state.mn.us:cddp\Documents\Projects\DM_R0S\Non_Project\FrwOps\DetailDrawings\FIBER\FIBERDETAILS.dtl.dgn

INDEX OF REFRACTION

PROVIDE CABLE MANUFACTURERS INDEX OF REFRACTION USED FOR TESTING ON PROJECT.

— = FURNISHED SPLICE, NO SPLICE OTDR READING REQUIRED AT THIS LOCATION

X.X POWER METER TEST POINT
— INSERT OPTICAL LINK LOSS IN dB
(TEST MULTI MODE FIBER AT 1300)
(TEST SINGLE MODE FIBER AT 1550)

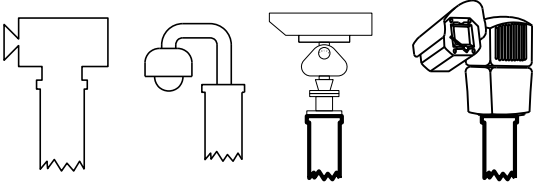
— .00 .00 —
INSERT OTDR SPLICE LOSS SHOT FROM THIS DIRECTION
INSERT OTDR SPLICE LOSS SHOT FROM THIS DIRECTION

— = FO CABLE SPLICE POINT & OTDR TEST SPLICE READING

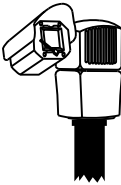
— = OTDR TEST SPLICE READING ON INPLACE CABLE

PIGTAIL OTDR LENGTH km
OTDR LENGTH km TO SHELTER
PROVIDE TRUNK AND PIGTAIL OTDR FIBER LENGTH MEASUREMENTS USING OTDR READINGS FROM CONNECTORS AT SHELTER OR CABINETS TO SPLICE POINTS IN VAULTS

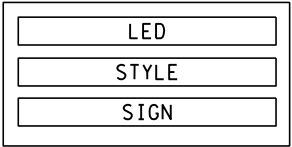
FIBER OPTIC CABLE MARKINGS @
SPLICE ENCLOSURE
VAULT ENTRY
PROVIDE TRUNK CABLE OUTER JACKET LENGTH MARKINGS AT ENTRY TO VAULT AND AT ENTRY TO OUTDOOR FIBER SPLICE ENCLOSURE



EXISTING CAMERA WITH PAN AND TILT UNIT



CAMERA WITH PAN AND TILT UNIT (BY OTHERS)



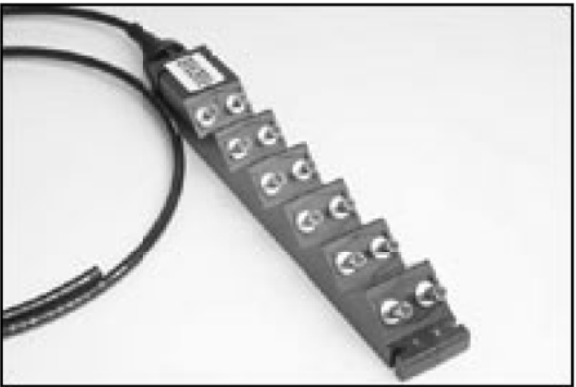
DYNAMIC MESSAGE SIGN



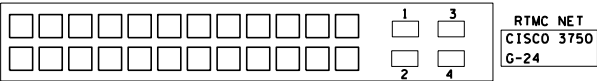
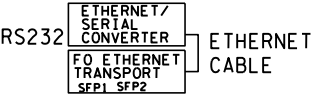
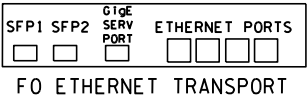
FIBER OPTIC PATCHCORD



TWISTED PAIR INTERCONNECT



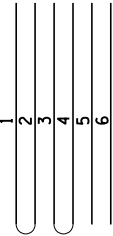
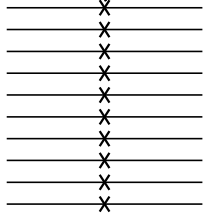
FACTORY PRE-TERMINATED/ARMORED FIBER OPTIC PIGTAIL



ETHERNET SWITCH

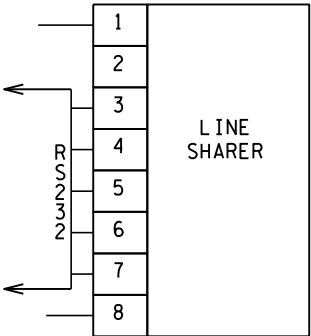
COMMON ETHERNET EQUIPMENT

EXISTING FO CABLE SPLICE POINT

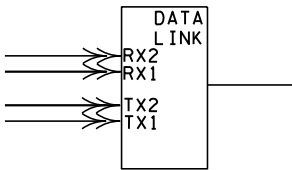


FIBER OPTIC PIGTAIL SPLICE DIAGRAM

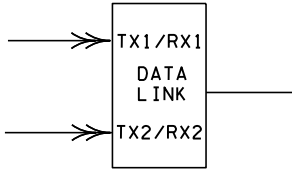
(SPLICE UNUSED FIBERS TOGETHER IN THE SPLICE VAULT SO THAT THE FIBERS CAN BE TESTED)



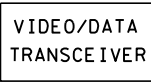
RS 232 LINE SHARER



FORCE TRANS. MODEL 2869 DATA LINK



OPTELECOM MODEM DATA LINK



VIDEO & DATA TRANSCEIVER TRANSMITTER

- 170 170 CONTROLLER
- DMS CHANGEABLE MESSAGE SIGN
- FLS FLASHER
- RCS RAMP CONTROL SIGNAL
- LDS LOOP DETECTOR STATION
- LD LOOP DETECTOR(S)
- ILCS INTELLIGENT LANE CONTROL SIGN

LEGEND FOR COMMUNICATION SCHEMATICS

REVISED 6/27/18

REV. NO.	DATE:	/	/
REV. NO.	DATE:	/	/

CERTIFIED BY _____ LIC.NO. 12345 DATE 2018
LICENSED PROFESSIONAL ENGINEER

STATE PROJ. NO. XXXX-XXX (TH XXX) SHEET NO. XXXX? OF XXXXX SHEETS