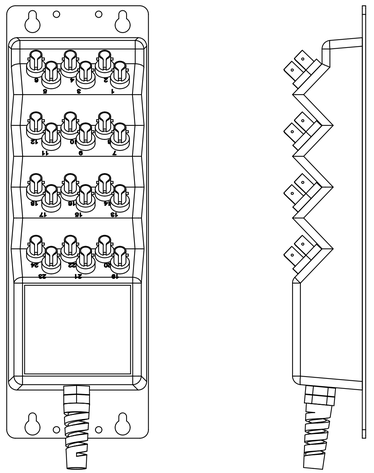
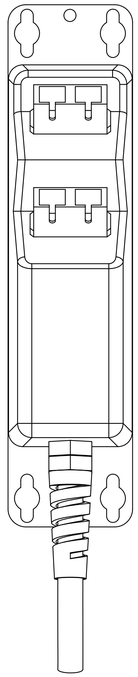
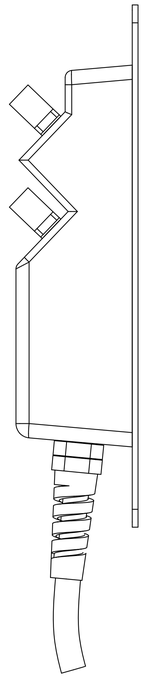
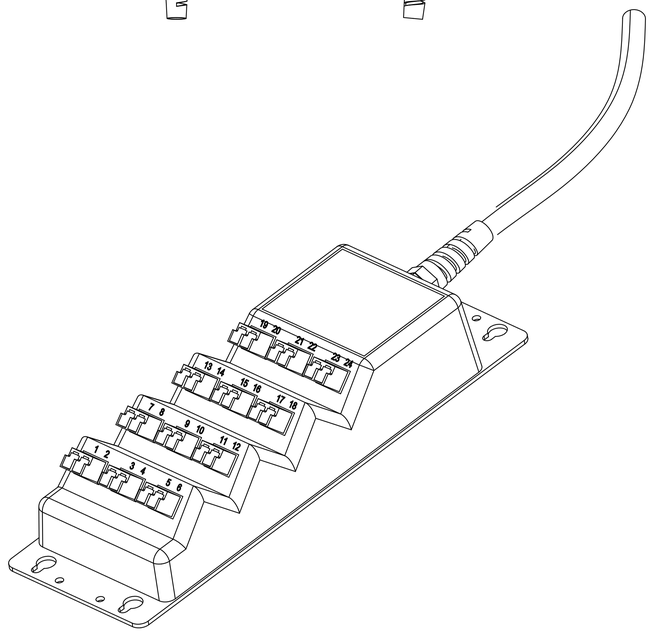
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0673-01	2017	55	99

DATE	BY	
		REFERENCES NOTED
		REFERENCES CHECKED

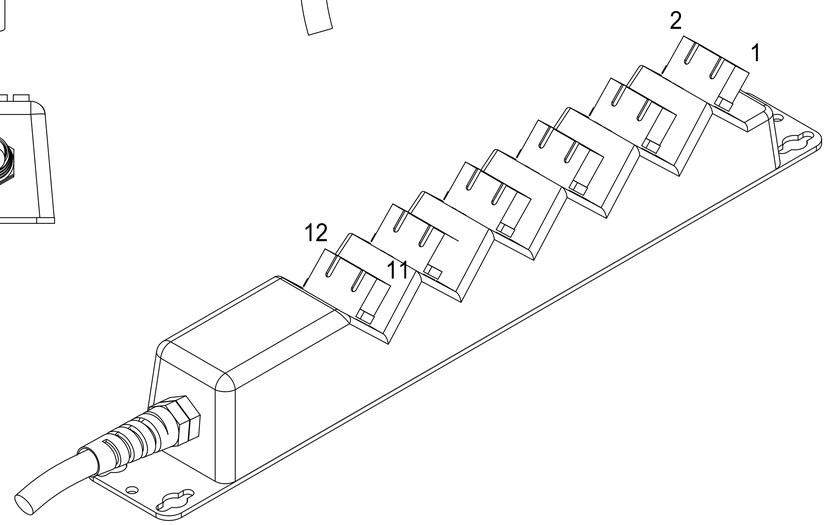








24 FIBER PRETERMINATED CONNECTOR
(PROVIDE WITH LC CONNECTORS)



4 TO 12 FIBER PRETERMINATED CONNECTOR
(PROVIDE 12 FIBER MODEL WITH LC CONNECTORS)

GENERAL NOTES:

THE PRETERMINATED PATCH PANEL IN CONJUNCTION WITH A DROP CABLE SERVES AS THE ATTACHMENT POINT FROM THE CONTROLLER CABINET TO THE TRUNK CABLE.

THE PRETERMINATED PATCH PANEL SHALL BE COMPRISED OF A FACTORY TERMINATED DROP CABLE INTEGRATED INTO A PROTECTIVE HOUSING AND A CUSTOM LENGTH OF DROP CABLE. THE PATCH PANEL SHALL BE BUILT OF POLYCARBONATE MATERIAL. THE PATCH PANEL SHALL HAVE 4-12 ARRAYED AT A 45 DEGREE ANGLE ALONG THE LENGTH OF THE HOUSING. THE COUPLERS SHALL BE CONFIGURED IN A STAIR-STEPPED ARRANGEMENT TO FACILITATE EASY ACCESS TO EACH COUPLER PAIR. THE PATCH PANEL SHALL INCLUDE CONNECTORS AS SHOWN ON THE PLANS AND EACH COUPLER PORT SHALL BE AN HAVE A LABEL AFFIXED TO DESIGNATE THE PORT NUMBER. MANUFACTURER INSTALLED DUST CAPS SHALL BE INSTALLED ON EACH PORT. THE FIBER OPTIC CONNECTORS ON THE INSIDE OF THE HOUSING SHALL BE CONSTRUCTED WITH ALL CERAMIC FERRULES. THE FIBER SHALL BE SECURED INTO THE FERRULE USING A HEAT CURED EPOXY AND SHALL BE FACTORY TERMINATED AND POLISHED. 100% OF THE FIBER TERMINATIONS SHALL BE OPTICALLY AND VISUALLY TESTED FOR ATTENUATION AND REFLECTANCE, AND SHALL EXHIBIT AN OPTICAL PERFORMANCE WITH A MAXIMUM INSERTION LOSS OF 0.5DB AT 1310NM AND 0.5 DB AT 1550NM AND A MINIMUM RETURN LOSS OF 40 DB. THE INSIDE OF THE HOUSING SHALL BE FILLED WITH AN ENVIRONMENTALLY AND TEMPERATURE STABLE EPOXY TO PERMANENTLY SECURE THE CONNECTORS AND THE CABLE ON THE INSIDE OF THE HOUSING AND TO PROTECT THE FIBER OPTIC COMPONENTS FROM VIBRATION AND SHOCK. THE EPOXY SHALL BE THERMALLY STABLE FROM -40 TO + 130 DEGREES CELSIUS. THE HOUSING SHALL INCORPORATE A STRAIN RELIEF BOOT AROUND THE EXITING DROP CABLE TO PROVIDE BEND RADIUS PROTECTION AND A SHORT TERM CABLE RETENTION OF AT LEAST 200 LBF. THE HOUSING SHALL HAVE INTEGRATED MOUNTING NOTCHES FOR FIELD MOUNTING.

EACH PRETERMINATED PATCH PANEL SHALL BE PROVIDED WITH FACTORY TEST RESULTS FOR REFLECTANCE AND INSERTION LOSS. THIS TEST REPORT SHALL REFERENCE THE SERIAL NUMBER OF THE PATCH PANEL. THE TEST REPORT SHALL BE PROVIDED TO THE ENGINEER AFTER INSTALLATION.

THE PRETERMINATED PATCH PANEL SHALL BE SHIPPED COILED OR ON A SPOOL, IN EITHER CASE THE FREE END OF THE CABLE SHALL BE ON THE TOP END OF THE COIL OR SPOOL.

PRETERMINATED CONNECTORS SHALL BE PROVIDED WITH SUFFICIENT PIGTAIL LENGTH TO EXTEND FROM CABINET TO GROUND BOX PLUS SUFFICIENT SLACK TO COIL 50 FEET OF CABLE IN GROUND BOX.

KANSAS DEPARTMENT OF TRANSPORTATION

PRETERMINATED

FIBER CONNECTORS

Drawn By : examples Plotted : 11/14/2017
File : c:\transystems\pw_local\transyscorp-pw1\ccbanka\d0521528\PreTermPigtail.dgn

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