Illinois Toll	way Base Sheet Revisions			
Section M	Base Sheet	t Drawings		
	Drawing	Modification Summary Effective: 03-01-2025		
	Dynamic Message Sign (ITS)-Series 1100			
	M-ITS-1101	DMS Walk-In Site Grounding Plan		
		Note 2 revised to add the word "overhead" before the word "structure"		
	M-ITS-1102 DMS Walk-In Typical Site Grounding Detail			
	Title of the drawing revised to say:" DMS Walk-In Typical Site Grounding Detail"			
		Added the word: "DMS" in the note pointing at the DMS sign		
		Added the word: "DMS" to the note pointing to DMS cabinet		
	Added a note to say: "No N-G bound, there will be a bond only when there is no transfor required"			
	M-ITS-1103	DMS Front Access Cantilever Electrical Schematic		
		Added a note to identify the transformer		
		Corrected the arrow pointing at the disconnect switch		
	M-ITS-1105	DMS Front Access Site Grounding Plan		
		Removed the dash lines between the proposed DMS foundation to the proposed DMS cabinet pad. Each site will have its own grounding site		
	M-ITS-1106 DMS Front Access Site Wiring Detail			
	Reduced the scale of the fence detail to be more in line with the other details on the d			
	M-ITS-1107 DMS Cabinet Layout Detail			
		Revised details for Cisco switch to represent new Cisco IE-3300-8T2S-E		
		Added a note to Designer: Install a locate wire between the DMS cabinet and the DMS sign gantry and install a locate post next to the DMS cabinet and connect the locate wire in the locate post.		
		Added a locate wire between the DMS sign structure and the DMS cabinet		
		Added a note to designer: Install a locate post near communication handhole closer to the DMS cabinet		
	M-ITS-1108 DMS Cabinet Wiring Diagram			
		Revised details for Cisco switch to represent new Cisco 9300		



New Sheet

Retired Standard



DMS CABIN	IET - IP RELAY	WIRING TABLE		
CRIPTION	CONNECTION FROM		CONNECTION TO	
ERMINAL ASSIGNMENT	DEVICE	CONNECTION	DEVICE	CONNECTION
ED FOR CCTV1				
ED FOR CCTV2				
	IP_RELAY	12VDC (+)	СВ	CB1A
D SHEDDING RELAY	СВ	CB1B	IP_RELAY	3 COMM
	IP_RELAY	3 NC	LOAD SHED RELAY	COIL (+)
	SPLICE BLOCK	120 V	IP_RELAY	NC
ITROLLER				
	IP_RELAY	4 NC	POWER OUTLET #1	НОТ
			(COMMUNICATION)	
ED FOR FLASHING BEACONS				

FURNISH AND INSTALL LOCKABLE SERVICE DISCONNECT AT PROPOSED STRUCTURE

10KVA, 480V/120/240V SINGLE PHASE TRANSFORMER SHALL BE MOUNTED ABOVE DISCONNECT.

THIS IS A DIAGRAMMATIC SCHEMATIC, ALL BREAKERS, TRANSFORMER LOAD CENTER SHALL BE SIZED AND WIRED AS PER

4. NEUTRAL AND GROUNDING SHALL BE BONDED AT SERVICE ENTRANCE DISCONNECT.

ALL UNDERGROUND CONDUITS SHALL BE NON-METALLIC CNC AND ABOVE GRADE CONDUITS SHALL BE RGS PVC COATED. COUPLERS SHALL BE UTILIZED WHEN TRANSITIONING FROM CNC TO PRGS.

MOUNT CLAMPS ON 5'-0" ON CENTER MOUNTING. HARDWARE SHALL BE USED AS PER CONDUIT MANUFACTURER

CONTRACTOR SHALL SUPPLY AND INSTALL CABLE REDUCER LUGS WHERE SIZE OF CABLE ENTERING THE DISCONNECT IS MORE THAN RECOMMENDED SIZE DUE TO VOLTAGE DROP.

ALL ELECTRICAL WORK FOR DMS WALK-IN SHALL BE PAID UNDER PAY ITEM "JT132621 - DMS ELECTRICAL WORK - WALK-IN".

THIS SCHEMATIC IS FOR GUIDANCE ONLY. CONTRACTOR SHALL WIRE THE DMS CABINET AS PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS.

10. THE COM (COMMON) CONTACT AND NC (NORMALLY CLOSED) CONTACT ON RELAY CONTACTS OF DIN RELAY SHALL

REFER TO ILLINOIS TOLLWAY STANDARD DRAWING F17 FOR OVERHEAD SIGN STRUCTURE SPAN TYPE (STEEL) STRUCTURE

12. FIBER PATCH PANEL IN DMS SIGN HOUSING SHALL BE A FACTORY TERMINATED UNIT WITH A 12-STRAND PIGTAIL CONNECTING TO RACK MOUNTED FIBER PATCH PANEL IN DMS CONTROLLER CABINET.

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THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" TARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO



DMS WALK-IN ELECTRICAL SCHEMATIC

2024-03

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9. AT LEAST AN 8 INCH MINIMUM BENDING RADIUS SHALL BE MAINTAINED ON ALL GROUNDING ELECTRODE CONDUCTORS. THE ANGLE OF ANY BENDING SHALL NOT BE LESS THAN 90 DEGREE.

THE GROUNDING ELECTRODE SYSTEM OR ANY OBJECT GROUNDED TO THE

GROUND RODS SHALL BE INSTALLED IN GROUND WELLS IN FINISHED GRADE

UNLESS INSTALLED UNDER SHOULDERS OR PAVEMENT.

GROUNDING ELECTRODE SYSTEM.

4

10. GROUNDING CONDUCTORS SHALL ALWAYS ROUTE AS STRAIGHT AS POSSIBLE. "U" FORM JUMPERS SHALL BE ACCEPTABLE ONLY FOR GATES AND DOORS.

- ENCLOSURE, THE DMS CONTROLLER, OR THE CCTV ELECTRONICS ENCLOSURE
- IF THERE IS A METAL HANDRAIL WITHIN 20 FEET OF CONTROL CABINET CONNECT 16. HANDRAIL TO GROUNDING SYSTEM WITH #2/0 TINNED BARE STRANDED COPPER CONDUCTOR.

オススススススススススススススス NOTE TO DESIGNER THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS **NOT** A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" Z BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

GROUND HALO SEE NOTE 4





DMS WALK-IN TYPICAL SITE GROUNDING DETAIL

2025-03

M-ITS-1102



DMS CABINET	- IP RELAY WI	RING TABLE			
DESCRIPTION	CONNECT	ON FROM	CONNECTION TO		
IP TERMINAL ASSIGNMENT	DEVICE	CONNECTION	DEVICE	CONNECTION	
ESERVED FOR CCTV1					
ESERVED FOR CCTV2					
	IP_RELAY	12VDC (+)	СВ	CB1A	
MS LOAD SHEDDING RELAY	СВ	CB1B	IP_RELAY	3 COMM	
	IP_RELAY	3 NC	LOAD SHED RELAY	COIL (+)	
	SPLICE BLOCK	120 V	IP_RELAY	NC	
MS CONTROLLER					
	IP_RELAY	4 NC	POWER OUTLET #1	НОТ	
			(COMMUNICATION)		
ESERVED FOR FLASHING BEACONS					
PEN					
PEN					
PEN					

- FURNISH AND INSTALL SERVICE DISCONNECT ON W6X9 SUPPORT.
- 10KVA, 480V/120/240V SINGLE PHASE TRANSFORMER.
- THIS IS A DIAGRAMMATIC SCHEMATIC, ALL BREAKERS, TRANSFORMER LOAD CENTER SHALL BE SIZED AND WIRED AS PER MANUFACTURER RECOMMENDATIONS.
- ENTIRE COMPLETED SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH MOTOROLA R56 MANUAL AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL UNDERGROUND CONDUITS SHALL BE NON-METALLIC CNC AND ABOVE GRADE CONDUITS SHALL BE RGS PVC COATED. COUPLERS SHALL BE USED WHEN TRANSITIONING FROM CNC TO PRGS
- MOUNT CLAMPS ON 5'-0" ON CENTER MOUNTING. HARDWARE SHALL BE USED AS PER CONDUIT MANUFACTURER RECOMMENDATION.
- CONTRACTOR SHALL SUPPLY AND INSTALL CABLE REDUCER LUGS WHERE SIZE OF CABLE ENTERING THE DISCONNECT IS MORE THAN RECOMMENDED SIZE DUE TO
- ALL ELECTRICAL WORK FOR DMS FRONT ACCESS SHALL BE PAID UNDER PAY ITEM JT132622 - DMS ELECTRICAL WORK - FRONT ACCESS.
- THIS SCHEMATIC IS FOR GUIDANCE ONLY. CONTRACTOR SHALL WIRE THE DMS CABINET AS PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS. THE COM (COMMON) CONTACT AND NC (NORMALLY CLOSED) CONTACT ON RELAY
- CONTACTS OF DIN RELAY SHALL FOLLOW THE TABLE ABOVE.
- REFER TO ILLINOIS TOLLWAY STANDARD DRAWING F4 FOR OVERHEAD SIGN STRUCTURE CANTILEVER TYPE STRUCTURE DETAILS.
- PAD MOUNTED TRANSFORMER SHALL BE FURNISHED BY UTILITY COMPANY. FOUNDATION AND TRANSFORMER GROUNDING BY CONTRACTOR SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND MUST BE TIED INTO DMS SITE GROUNDING ELECTRODE SYSTEM.
- FOR THE DISCONNECT SWITCH, HORIZONTAL SUPPORT SHALL BE SIZED TO ALLOW CONDUITS TO VERTICALLY DROP OUTSIDE OF THE FOUNDATION WITHOUT BENDS.
- FIBER PATCH PANEL IN DMS SIGN HOUSING SHALL BE A FACTORY TERMINATED UNIT WITH A 12-STRAND PIGTAIL CONNECTING TO RACK MOUNTED FIBER PATCH PANEL IN DMS CONTROLLER CABINET.





M-ITS-1103



DMS CABINE	ET - IP RELAY V	VIRING TABLE		
CRIPTION	CONNECTION FROM		CONNECTION TO	
FERMINAL ASSIGNMENT	DEVICE	CONNECTION	DEVICE	CONNECTION
ED FOR CCTV1				
ED FOR CCTV2				
	IP_RELAY	12VDC (+)	СВ	CB1A
AD SHEDDING RELAY	СВ	CB1B	IP_RELAY	3 COMM
	IP_RELAY	3 NC	LOAD SHED RELAY	COIL (+)
	SPLICE BLOCK	120 V	IP_RELAY	NC
NTROLLER				
	IP_RELAY	4 NC	POWER OUTLET #1	НОТ
			(COMMUNICATION)	
ED FOR FLASHING BEACONS				

- 1. FURNISH AND INSTALL SERVICE DISCONNECT ON W6X9 SUPPORT.
- 10KVA, 480V/120/240V SINGLE PHASE TRANSFORMER.
- THIS IS A DIAGRAMMATIC SCHEMATIC, ALL BREAKERS, TRANSFORMER LOAD CENTER SHALL BE SIZED AND WIRED AS PER MANUFACTURER RECOMMENDATIONS.
- ENTIRE COMPLETED SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF NFPA 70 (NATIONAL ELECTRIC CODE) SECTION 250.
 - ALL UNDERGROUND CONDUITS SHALL BE NON-METALLIC CNC AND ABOVE GRADE CONDUITS SHALL BE RGS PVC COATED. COUPLERS SHALL BE USED WHEN TRANSITIONING FROM CNC TO PRGS.

- MOUNT CLAMPS ON 5'-0" ON CENTER MOUNTING. HARDWARE SHALL BE USED AS PER CONDUIT MANUFACTURER RECOMMENDATION.
- CONTRACTOR SHALL SUPPLY AND INSTALL CABLE REDUCER LUGS WHERE SIZE OF CABLE ENTERING THE DISCONNECT IS MORE THAN RECOMMENDED SIZE DUE TO
- ALL ELECTRICAL WORK FOR DMS TYPE 2 SHALL BE PAID UNDER PAY ITEM JT132622 DMS
- THIS SCHEMATIC IS FOR GUIDANCE ONLY, CONTRACTOR SHALL WIRE THE DMS CABINET AS PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS
- THE COM (COMMON) CONTACT AND NC (NORMALLY CLOSED) CONTACT ON RELAY CONTACTS OF DIN RELAY SHALL FOLLOW THE TABLE ABOVE.
- REFER TO ILLINOIS TOLLWAY STANDARD DRAWING F14 FOR OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE STRUCTURE DETAILS.
 - FOR THE DISCONNECT SWITCH, HORIZONTAL SUPPORT SHALL BE SIZED TO ALLOW CONDUITS TO VERTICALLY DROP OUTSIDE OF THE FOUNDATION WITHOUT BENDS.
 - FIBER PATCH PANEL IN DMS SIGN HOUSING SHALL BE A FACTORY TERMINATED UNIT WITH A 12-STRAND PIGTAIL CONNECTING TO RACK MOUNTED FIBER PATCH PANEL IN





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- 4. GROUND RODS SHALL BE INSTALLED IN GROUND WELLS IN FINISHED GRADE.

BE ACCEPTABLE ONLY FOR GATES AND DOORS.

GROUNDING SYSTEM WITH #2/0 TINNED BARE STRANDED COPPER CONDUCTOR





DMS FRONT ACCESS SITE WIRING DETAIL

2025-03

M-ITS-1106





Image Obsolution Image Obsolution <th></th> <th>ITEM</th> <th>DESCRIPTION</th>		ITEM	DESCRIPTION
Image: Standard Display: Standard		A-E	NOT USED
ONE STANDARD (HUBBELL BR20WR) G-1 NOT USED J NETWORK SWITCH CISCO IE-3300-812S-E K CISCO POWER SUPPLY, PWR-IE170W-PC-AC= L IP SERVICES LICENSE: L-IE3300-DNS-A-3Y M 2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M N AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12 O SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D1/ISI OR APPROVED EQUAL O-R NOT USED S SPLICE BLOCK, ALTECH/38041 T NOT USED U SA CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 V-W NOT USED X POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 Y (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES Z NOT USED M 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 M <td></td> <td>E</td> <td>TWO DUPLEX 120V RECEPTACLES ONE GECL (HUBBELL GER5362TR) AND</td>		E	TWO DUPLEX 120V RECEPTACLES ONE GECL (HUBBELL GER5362TR) AND
G-1 NOT USED J NETWORK SWITCH CISCO IE-3300-8725-E K CISCO POWER SUPPLY, PWR-IE170W-PC-AC= L IP SERVICES LICENSE: L-IE3300-DNS-A-3Y M 2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M N AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12 O SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G6200012 LAN-100-0 P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL Q-R NOT USED S SPLICE BLOCK, ALTECH/38041 T NOT USED U 5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM18050 V-W NOT USED W 20 GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES Z NOT USED A-R NOT USED A 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 A TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020			ONE STANDARD (HUBBELL BR20WR)
 NETWORK SWITCH CISCO IE-3300-8T2S-E CISCO POWER SUPPLY, PWR-IE170W-PC-AC= IP SERVICES LICENSE: L-IE3300-DNS-A-3Y 2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M A AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12 SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL QR NOT USED SPLICE BLOCK, ALTECH/38041 NOT USED SA CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 V-W NOT USED Y C(2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES NOT USED A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8 NOT USED NOT USED NDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED MINDOR/UUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED US CONTROLLER US CONTROL CABINET TYPE 334 NEMA 4X 120/240VAC MTL ZONE DEFENDER MODEL ZD16100 LOAD SHED POWER RELAY MAGNECRAFT MODEL 199X-12 WITH COVER RACK MOUNTED FIBER PATCH PANEL STAND ALONE FIBER PATCH PANEL STAND ALONE FIBER PATCH PANEL 		G- ①	NOT USED
K CISCO POWER SUPPLY, PWR-JE170W-PC-AC= L IP SERVICES LICENSE: L-IE3300-DNS-A-3Y M 2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M N AC/DC POWER SUPPLY, 12/DC, 10 WATTS, MEAN WELL/MDR-10-12 O SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL QR NOT USED S SPLICE BLOCK, ALTECH/38041 T NOT USED W SA CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 V-W NOT USED X POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 Y (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES Z NOT USED M NOT USED M NOT USED M 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 M TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020 M TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8 M NOT USED M INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET M NOT USED M 102-STRAND MUL		Ĵ	NETWORK SWITCH CISCO IE-3300-8T2S-E
 IP SERVICES LICENSE: L-IE3300-DNS-A-3Y 2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M AC/DC POWER SUPPLY, 12/DC, 10 WATTS, MEAN WELL/MDR-10-12 SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 120/VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL R NOT USED SPLICE BLOCK, ALTECH/38041 NOT USED SA CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 W-W NOT USED POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES NOT USED ACIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALTEC CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET MOT USED DMS CONTROLLER INS CONTROLLER INS CONTROLLER INS CONTROLLER INS CONTROLLER INS CONTROL CABINET TYPE 334 NEMA 4X 120/240VAC MTL ZONE DEFENDER MODEL ZD16100 LOAD SHED POWER RELAY MAGNECRAFT MODEL 199X-12 WITH COVER RACK MOUNTED FIBER PATCH PANEL STAND ALONE FIBER PATCH PANEL STAND ALONE FIBER PATCH PANEL AND ALONE FIBER PATCH PANEL 		ĸ	CISCO POWER SUPPLY, PWR-IE170W-PC-AC=
M 2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M N AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12 O SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL QR NOT USED S SPLICE BLOCK, ALTECH/38041 T NOT USED W NOT USED V-W NOT USED X POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 Y (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES Z NOT USED W NOT USED W 120 CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 W 120 CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 W 120 CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 W 120 CIRCUIT DOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET W INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET W DMS CONTROLLER W INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET W DMS CONTROLLER		Ũ	IP SERVICES LICENSE: L-IE3300-DNS-A-3Y
CORNING/047202R5120002M N AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12 O SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL Q-R NOT USED S SPLICE BLOCK, ALTECH/38041 T NOT USED U 5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 V-W NOT USED X POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 Y (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES Z NOT USED A 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 A 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 A 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 A 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-CD8 W-M NOT USED M		M	2 METER - SMFO LC-SC DUPLEX JUMPERS,
N AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12 O SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/DI/ISI OR APPROVED EQUAL Q-R NOT USED S SPLICE BLOCK, ALTECH/38041 T NOT USED Ø FOWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 Y (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES Z NOT USED A YO USED Ø 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 Ø 10000R/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET Ø NOT USED Ø 100/S CONTROLLER Ø 12-STRAND MULTI-MODE OR SINGLE-MODE FIBER OPTIC CABLE Ø 12-STRAND MULTI-MODE OR SINGLE-MODE FIBER OPTIC CABLE Ø 10/S CONTROLLER Ø 10/S CONTROLLER		_	CORNING/047202R5120002M
 SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL NOT USED SPLICE BLOCK, ALTECH/38041 NOT USED SA CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 NOT USED A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 NOT USED POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES NOT USED A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020 TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8 NOT USED INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET NOT USED INDO USED UPS PANEL ALPHA TECHNOLOGIES FXM1100 WITH BATTERIES OUTLET STRIP DMS CONTROL CABINET TYPE 334 NEMA 4X 120/240VAC MTL ZONE DEFENDER MODEL ZD16100 LOAD SHED POWER RELAY MAGNECRAFT MODEL 199X-12 WITH COVER RACK MOUNTED FIBER PATCH PANEL STAND ALONE FIBER PATCH PANEL 		N	AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12
G620U012 LAN-100-0 P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SJ OR APPROVED EQUAL Q-R NOT USED S SPLICE BLOCK, ALTECH/38041 T NOT USED U 5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 V-W NOT USED Q FOWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 Y (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES Z NOT USED A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 A Y A POWER CONTROLLER, ALLEN BRADLEY/1492-SPM1B020 A Y A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 A Y A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 A TERMINAL BLOCK, ALLEN BRADLEY/1492-SPM1B020 A TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8 W-W NOT USED W INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET W NOT USED W INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTE		0	SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS
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- 1. FABRICATOR TO PROVIDE CABINET DRAWINGS SUBMITTAL FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 2. ENTIRE COMPLETED SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH MOTOROLA R56 MANUAL AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE NATIONAL ELECTRICAL CODE.
- DMS CONTROLLER SHOWN REPRESENTS A GENERIC DMS CONTROLLER. DMS 3. CONTROLLERS ARE SUPPLIED BY THE DMS MANUFACTURER AND THEREFORE THE FRONT PANEL MAY DIFFER.

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