DISPLAY & SIGNAL LAYOUT

ELECTRICAL/SYSTEM

SHEET NO.	DRAWING NO.	TITLE
200	5583212	RISER; 200; LVX-3000, SS1500, FB-2037, LAYOUT
201	5583213	RISER; 201; 1 IP RACK, AS-PRO S2, SSR-DM2

COMPONENT IDENTIFICATION LEGEND

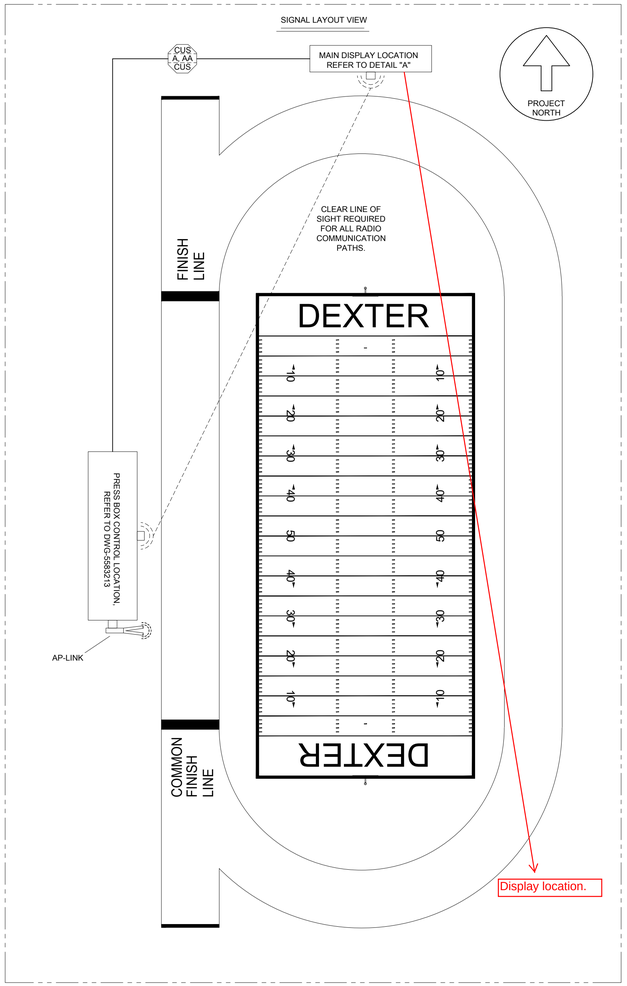
ID TAG	COMPONENT DESCRIPTION	MANUFACTURER'S PART NUMBER	COMPONENT PROVIDED BY	COMPONENT INSTALLED BY
IFP 1	INTERNAL FIBER PATCH PLATE		DAKTRONICS	FACTORY
MD 1	MAIN DISTRIBUTION PANEL		CUSTOMER	CUS. ELECT. SUB.
FP 1	FIBER PATCH PANEL	0A-1453-0122	DAKTRONICS	DAK. ELECT. SUB.
SS 1	120/208V PARALLEL SURGE SUPPRESSOR	A-5028862	DAKTRONICS	DAK. ELECT. SUB.
PE1 TO PE2	POWER ENTERANCE		DAKTRONICS	FACTORY
PS 1	INTERNAL POWER & SIGNAL ENTRANCE		DAKTRONICS	FACTORY
RK 1	GEN 6 RADIO RECEIVER	0A-1110-0152	DAKTRONICS	DAK. ELECT. SUB.
DS 1	12VDC TRUMPET KIT W/ PS	0A-1647-1293	DAKTRONICS	DAK. ELECT. SUB.
AD 1	AD PANEL J-BOX		DAKTRONICS	FACTORY
CE 1	CONTROL ENCLOSURE 1500HD, 120V	0A-1534-1001	DAKTRONICS	DAK. ELECT. SUB.

SIGNAL DISTRIBUTION SYSTEM LEGEND

-P = PLENUM
-NP = NON PLENUM

ID TAG	CABLE TYPE	SIZE (O.D.)	DAKTRONICS PART NUMBER	CONDUIT PROVIDED & INSTALLED BY	CABLE		
					PROVIDED BY	INSTALLED BY	TERMINATED BY
A	12 STRAND, MM 50µm DX FIBER -P	0.23"	W-1490	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AA	AUDIO, 1 PAIR, 22 AWG	0.170"	W-1615	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
XA	50FT LC-LC DUPLEX FIBER	-	W-1865	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
XD	50FT DUPLEX FIBER, ST TO LC	-	W-1867	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
XF	60FT CABLE IN 1500HD CABINET	-	W-5103349	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS

SIGNAL LAYOUT VIEW



DETAIL: "A"

MAIN DISPLAY LOCATION:
0A-2389-0070: LVX-3000-336X800-16MT; 14X25 MODS
0A-1534-1000: SPORTSOUND SS1500HD
0A-1647-1225: FB-2037-W-PV-F; CAPTIONS, TNMCS

REAR VIEW

SPORTSOUND 1500HD-120V
SEE CE 1 FOR POWER SPECS

NON-BACKLIT TRUSS

NON-BACKLIT TRUSS

CUS XF CUS

LVX-3000
LINE 1 AMPS: 41.12
LINE 2 AMPS: 36.62
WATTS: 8,156
VOLTS: 120 VAC
3 WIRE + GND

SEE DWG-5401899 FOR ACCURATE POWER AND SIGNAL DISTRIBUTION FOR DISPLAY

PE2 CUS B50 CUS → TO MD 1

LVX-3000
LINE 1 AMPS: 41.12
LINE 2 AMPS: 36.62
WATTS: 8,156
VOLTS: 120 VAC
3 WIRE + GND

SEE DWG-5401899 FOR ACCURATE POWER AND SIGNAL DISTRIBUTION FOR DISPLAY

INTERNAL SIGNAL INTERCONNECT MADE DURING INSTALLATION.

PE1 CUS B50 CUS → TO MD 1

INSTALLER NOTE:
ALL DISPLAYS MUST BE GROUNDED PER LOCAL AND NATIONAL ELECTRIC CODE.

IFP 1 LC → CUS XA CUS

FB-2037
WATTS: 984
AMPS: 8.2
VOLTS: 120

DS 1

RK 1

B1 = BROADCAST
C1 = CHANNEL

PS 1 → CUS A20 CUS → TO MD 1

BACKLIT ID PANEL
WATTS: 432
AMPS: 3.6
VOLTS: 120

AD 1 → CUS A20 CUS → TO MD 1

DETAIL: "B"

OUTDOOR FIBER PATCH PANEL LOCATION
0A-1453-0122: OUTDOOR FIBER PATCH PANEL PART OF 0A-1453-0120 KIT.

INSTALLER NOTE:
FIBER PATCH PANEL MUST BE INSTALLED WITHIN 50FT OF VIDEO. TYPICALLY INSTALLED ON STRUCTURE. SETUP INCLUDES TERMINATING BULK FIBERS IN FP 1. PASS COPPER AUDIO CABLE TO CE 1. RUN FIBER TO CONNECTING EQUIPMENT FROM THE FIBER PATCH PANEL USING PROVIDED FIBER PATCH CABLES IN CONDUIT. FINAL INSTALL MAY BE DIFFERENT DEPENDING ON SITE CONDITIONS.

FP 1 LC → CUS A AA CUS → TO CONTROL LOCATION, REFER TO DWG-5583213

DETAIL: "D"

SS-1500HD CONTROL ENCLOSURE
0A-1534-1001: CONTROL ENCLOSURE

SEE DETAIL "E"

CE 1 ST → CUS XD CUS, CUS AA CUS → CUS A20 CUS → TO MD 1

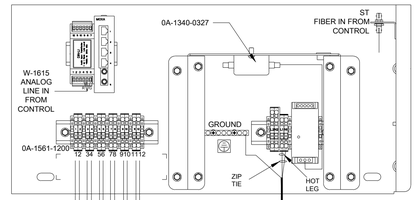
INSTALLER NOTE:
MUST BE INSTALLED WITHIN 50FT OF SPORTS SOUND. TYPICALLY INSTALLED ON STRUCTURE.

CIRCUIT 1
TOTAL POWER REQUIREMENTS:

SYSTEM VOLTAGE		
120	2	WIRES + GND
NUMBER OF POLES		1
MAXIMUM WATTS		1920W
AMPERES PER LINE		16A

DETAIL: "E"

CONTROL ENCLOSURE



THESE ARE 12AWG WIRES
1: AMP1 LF1+ WHT A310
2: AMP1 LF1- BLK A310
3: AMP1 MF1+ RED A311
4: AMP1 MF1- BLK A311
5: AMP1 HF1+ BLU A312
6: AMP1 HF1- BLK A312
7: AMP2 MF2+ ORG A313
8: AMP2 MF2- BLK A313
9: AMP2 LF2+ GRN A314
10: AMP2 LF2- BLK A314
11: AMP2 LF3+ BRN A315
12: AMP2 LF3- BLK A315

DETAIL: "C"

MAIN DISTRIBUTION PANEL LOCATION
TYPICALLY INSTALLED ON STRUCTURE

INSTALLER NOTE:
POWER DISTRIBUTION SHOWN IS A BRANCH CIRCUIT SYSTEM. OPTIMAL WIRING METHOD IS AT THE DISCRETION OF THE INSTALLER AND MUST COMPLY WITH ALL LOCAL AND NATIONAL ELECTRIC CODES.

LAYOUT OF THE PANEL BOARD WILL BE DETERMINED BY ACTUAL WIRING METHODS USED.

DAKTRONICS LED DISPLAYS ARE CONSIDERED NON-CONTINOUS LOADS

PANEL SCHEDULES ARE PLANNED WITH 120/208 VOLT SOURCE.

IT IS AT THE INSTALLERS DISCRETION TO USE A STANDARD LOAD CENTER SIZE FOR THE DEPICTED MD (MAIN DISTRIBUTION PANEL) THAT IS SHOW, SIZED APPROPRIATELY FOR THE DISPLAY TECHNOLOGY PURCHASED AT WITH THE SALES ORDER. THIS DRAWING IS A REPRESENTATION OF A TYPICAL ELECTRICAL INSTALLATION.

BRANCH CIRCUIT SIZES AND PANEL SCHEDULE MAY VARY. LOAD BALANCE WILL BE AT THE DISCRETION OF THE ELECTRICAL INSTALLER, FOLLOWING ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES.

MD 1 → SS 1

SURGE SUPPRESSOR SUPPLIED BY DAKTRONICS. MOUNTED ON SIDE OF THE PANEL BOARD BY ELECTRICAL SUB. TYPICALLY TIED WITH 30A 3-POLE BREAKER. 3 POLE SURGE SUPPRESSOR PROVIDED.

MAIN POWER FEEDER CIRCUIT BY CUSTOMER ELECTRICAL SUBCONTRACTOR TYP.REQUIRED 25 OHMS OR LESS TO GRND.

PANEL: MD 1 SERVICE: 208Y/120 V 3 PH 4+GND W

CIRCUIT	AMP LOAD A	AMP LOAD B	AMP LOAD C	P	AMP	CKT NO.	CKT NO.	P	AMP	BRKR	AMP LOAD A	AMP LOAD B	AMP LOAD C	CIRCUIT
PE 1	41.12			2	50	1	2				BLANK			
		36.62				3	4	20	1		8.2			PS 1
PE 2			41.12	2	50	5	6				BLANK			
	36.62					7	8							
AD 1		3.6		1	20	9	10	30	3					SURGESUPP
CE 1			16	1	20	11	12							
TOTAL LOAD: A: 77.74 B: 48.42 C: 61.12										TOTAL (KVA): 22				

*DAKTRONICS LED DISPLAYS ARE CONSIDERED NON-CONTINUOUS LOADS

Display has internal surge suppression.

DESIGN IS PRELIMINARY
FOR CONCEPTUAL PURPOSES ONLY

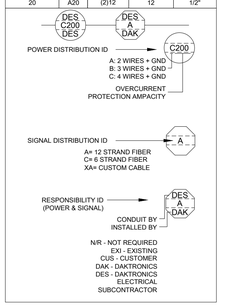
POWER DISTRIBUTION SYSTEM LEGEND

FEEDER TABLE - 2 CONDUCTORS+GND
(SEE SPECIFICATIONS FOR INSULATION TYPE)

OVER CURRENT PROTECTION AMPACITY	2 WIRES: FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
20	A20	(2)12	12	1/2"

FEEDER TABLE - 3 CONDUCTORS+GND
(SEE SPECIFICATIONS FOR INSULATION TYPE)

OVER CURRENT PROTECTION AMPACITY	3 WIRES: FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
50	B50	(3)8	10	3/4"



NOTES:

A. CONDUIT SIZES ARE MINIMUM; INCREASE FOR LONG OR DIFFICULT RUNS.

B. ABOVE 86 F AMBIENT INCREASE WIRE SIZE PER NEC.

C. CONDUIT AND CONDUCTOR SIZES ARE BASED ON 90° TYPE THWN COPPER CURRENT CARRYING CONDUCTORS IN SCH. 40 PVC CONDUIT, TERMINATING TO 75°C TERMINALS. CONDUIT AND CONDUCTOR SIZES MAY NEED TO BE INCREASED PER LOCAL AND NATIONAL ELECTRIC CODES IF OTHER CONDUCTOR OR CONDUIT TYPES ARE USED.

D. IF WIRE OR CONDUIT SIZES OTHER THAN THOSE SHOWN IN THESE CHARTS ARE TO BE USED, CONTACT A DAKTRONICS ELECTRICAL ENGINEERING REPRESENTATIVE.

DEXTER HIGH SCHOOL

FOOTBALL

2200 N PARKER RD
DEXTER, MI 48130
USA

SUBMITTAL APPROVAL

☐ APPROVED ☐ APPROVED AS NOTED ☐ APPROVED AS NOTED & RESUBMIT

COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

NOTES:

1. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.

2. ALL SIGNAL CABLE RUNS SHOULD BE LABELED WITH THEIR ORIGIN AND DESTINATION ON EACH END.

3. FIBER OPTIC CABLE RUNS MUST BE CONTINUOUS WITH A MINIMUM BEND RADIUS OF 15XO.D. OF THE FIBER CABLE.

4. ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE.

5. THE OVER CURRENT PROTECTION DEVICE MUST BE MATCHED TO THE FAULT CURRENT THAT IS AVAILABLE IN THE POWER DELIVERY CIRCUIT. TO DETERMINE THE AVAILABLE FAULT CURRENT OF A SITE, AN ONSITE FAULT CURRENT SURVEY MAY NEED TO BE PERFORMED BY QUALIFIED PERSONNEL. IF THE AVAILABLE FAULT CURRENT IN THE ELECTRICAL SYSTEM EXCEEDS 10,000 AMPS, A DAKTRONICS REPRESENTATIVE SHOULD BE CONTACTED.

6. DUE TO THE INRUSH CURRENT (MOMENTARY SURGE) CREATED BY THE DISPLAY EQUIPMENT ON STARTUP, THE OVER CURRENT PROTECTION DEVICE(S) MAY HAVE TO BE OVERSIZED.

7. DAKTRONICS UTILIZES BOTH STANDARD AND SUPPLEMENTARY CIRCUIT BREAKERS IN THE DISPLAY ASSEMBLY PROCESS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL PRIMARY FEEDER CIRCUIT BREAKERS TO EACH DISPLAY/DISPLAY SECTION ARE UL 489 LISTED.

8. DAKTRONICS IS NOT RESPONSIBLE FOR THE QUALITY OF THE POWER DELIVERY SYSTEM TO THE DISPLAY SYSTEM.

9. BECAUSE EACH INSTALLATION IS UNIQUE, DAKTRONICS OFFERS THESE INSTRUCTIONS AS GUIDELINES ONLY. DAKTRONICS, INC. ASSUMES NO LIABILITY IF INSTALLATION STEPS HAVE BEEN OMITTED OR OTHER NECESSARY PROCEDURES ARE NOT INCLUDED IN THIS SYSTEM RISER DIAGRAM.

10. POWER AND SIGNAL REQUIREMENTS ARE SPECIFIED TO THE EQUIPMENT AND SETUP SHOWN. ANY CHANGES MADE TO EQUIPMENT OR THEIR SETUP SHOULD BE DISCUSSED WITH DAKTRONICS DESIGN PERSONNEL AND WILL REQUIRE AN UPDATED RISER DIAGRAM DRAWING.

11. THE CONTRACTUAL AGREEMENT WILL DETERMINE THE PARTY OR PARTIES RESPONSIBLE FOR ITEMS LISTED AS FIELD INSTALLED. THIS DRAWING IS NOT INTENDED TO DETERMINE RESPONSIBILITIES AND SHOULD BE USED FOR REFERENCES ONLY.

12. ACTUAL PLACEMENT OF ELECTRICAL COMPONENTS, SUCH AS PANEL BOARDS, A/C'S, AND SPLICE PANELS, MAY VARY. LOCATION OF SUCH EQUIPMENT TO BE FIELD VERIFIED.

——— EXTERNALLY MOUNTED HARDWARE
- - - - INTERNALLY MOUNTED HARDWARE

13. NOTE: ALL FIBER TERMINATIONS TO BE DESIGNATED BY TEXT IN UPPER RIGHT CORNER OF DEVICES. DAKTRONICS USES ST AND LC TERMINATIONS THROUGHOUT THE SYSTEM. DESIGNATION IS FOR ALL TERMINATIONS LOCATED AT EACH DEVICE.

EXAMPLE:

ST (OR LC)

DEVICE

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THIRD ANGLE PROJECTION

PROJECT:	DEXTER HIGH SCHOOL
TITLE:	RISER; 200; LVX-3000, SS1500, FB-2037, LAYOUT
DATE:	27 JAN 25
DIM UNITS:	INCHES [MILLIMETERS]
SHEET:	REV:
SCALE:	NONE
	DO NOT SCALE DRAWING
	200 00
DESIGN:	NDAY
DRAWN:	NDAY
JOB NO:	P837208
FUNC - TYPE - SIZE:	F_01_D
	5583212

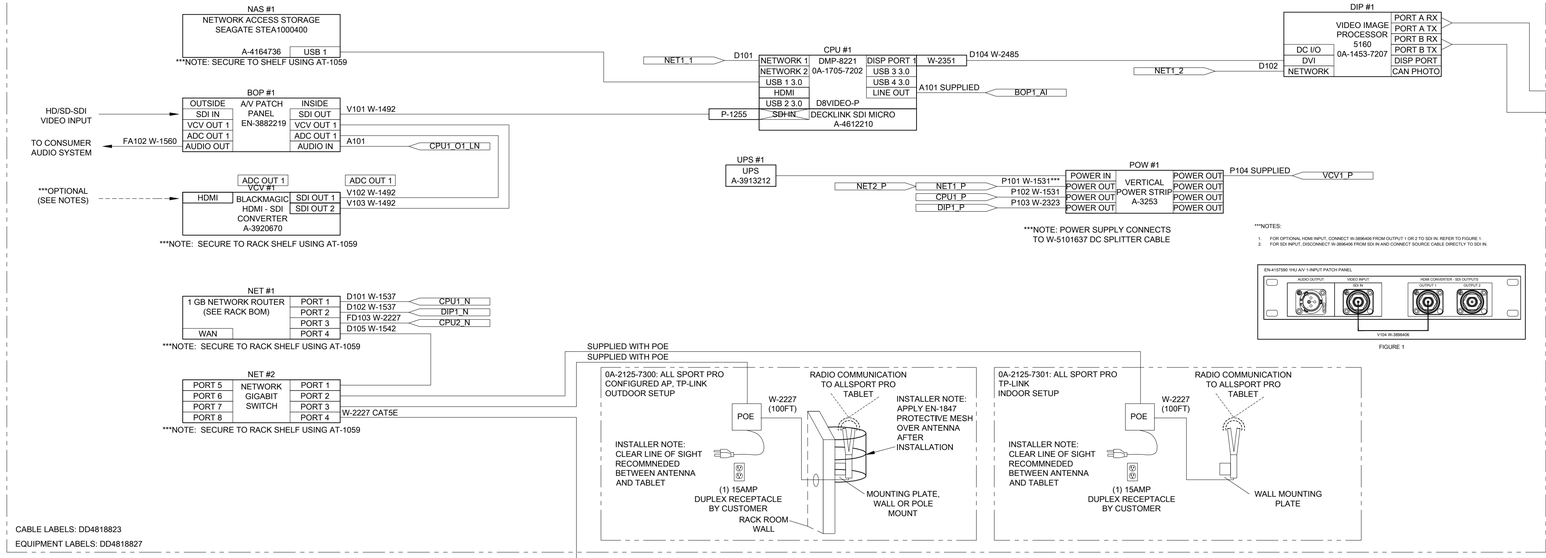
CONTROL SCHEMATIC & EQUIPMENT LAYOUT

POWER AND SIGNAL DISTRIBUTION SYSTEM LEGEND
REFERENCE DRAWING 5583212, SHEET 200

DEXTER HIGH SCHOOL
FOOTBALL
2200 N PARKER RD DEXTER, MI 48130 USA
SUBMITTAL APPROVAL
☐ APPROVED ☐ APPROVED AS NOTED ☐ APPROVED AS NOTED & RESUBMIT
COMPANY:
SIGNED:
TITLE: DATE:

8RU 1-INPUT VIDEO RACK SCHEMATIC
0A-2125-2003: RACK; 8HU SVS 1-INPUT, PRIMARY ONLY; FY24

***NOTE: ALL EQUIPMENT IS RACKMOUNTED UNLESS OTHERWISE NOTED



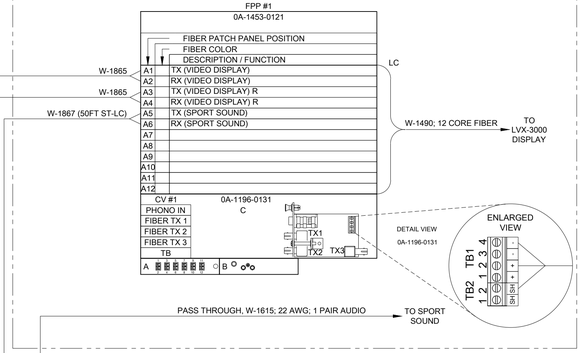
***NOTES:

1. FOR OPTIONAL HDMI INPUT, CONNECT W-3896406 FROM OUTPUT 1 OR 2 TO SDI IN. REFER TO FIGURE 1.
2. FOR SDI INPUT, DISCONNECT W-3896406 FROM SDI IN AND CONNECT SOURCE CABLE DIRECTLY TO SDI IN.

FIGURE 1

CABLE LABELS: DD4818823
EQUIPMENT LABELS: DD4818827

CONTROL ROOM FIBER PATCH PANEL LOCATION
0A-1453-0121: CONTROL ROOM FIBER PATCH PANEL
INCLUDED IN 0A-1453-0120 KIT

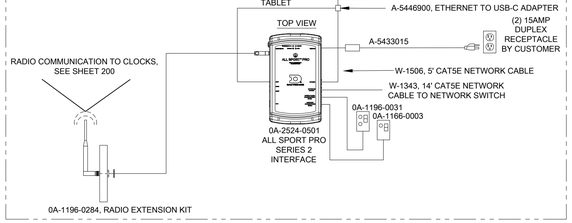


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SUPPLIED WITH POE

0A-2125-7300: ALL SPORT PRO CONFIGURED AP, TP-LINK OUTDOOR SETUP

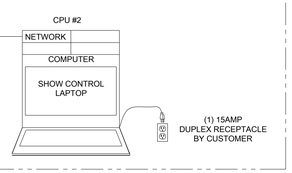
0A-2125-7301: ALL SPORT PRO TP-LINK INDOOR SETUP

0A-2524-0511
ALL SPORT PRO SERIES 2 KIT
0A-2125-7000
KIT, ALL SPORT PRO WIRELESS AP W/ IPAD
0A-1166-0003: HANDHELD REMOTE, GAME CLOCK
0A-1196-0031: HANDHELD REMOTE, DOUBLE RESET

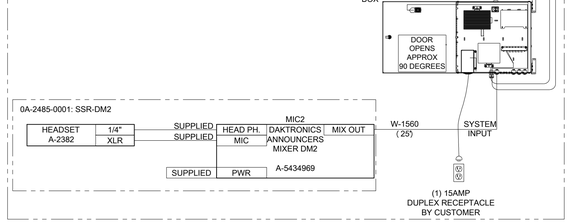


SHOW CONTROL COMPUTER LOCATION
0A-2125-7211: CONFIGURED SHOW CONTROL LAPTOP
A-2603: DWLD;SW LIC; SCS-4000
A-4197284: ALLSPORT PRO SOFTWARE, FB, SO, LA

INSTALLER NOTE:
THIS EQUIPMENT WILL BE TYPICALLY INSTALLED ON FRONT COUNTER. REFER TO THE TYPICAL CONTROL EQUIPMENT LAYOUT DETAIL IN THIS DRAWING.

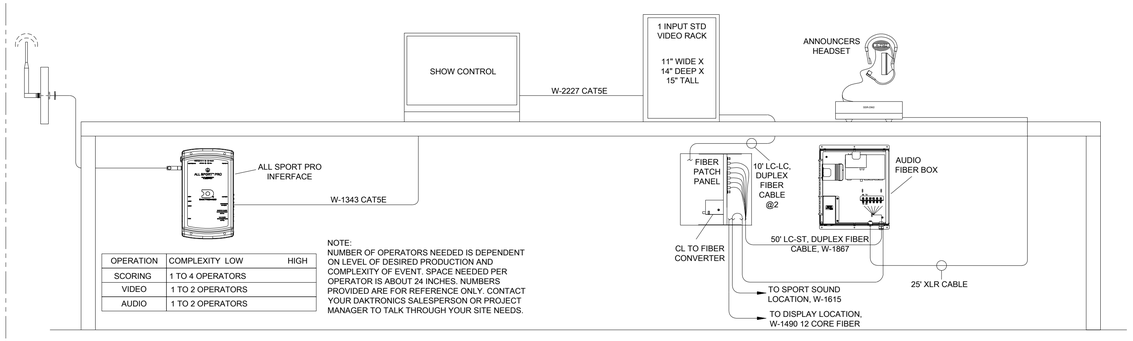


AUDIO CONTROL LOCATION
0A-2392-0001: AUDIO FIBER ENCLOSURE



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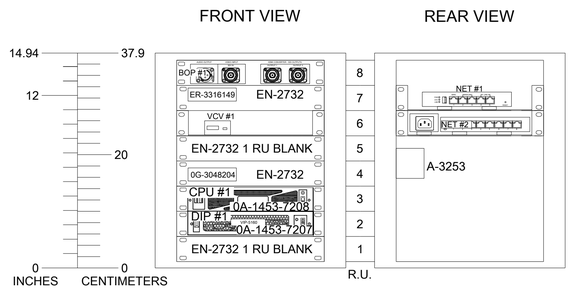
TYPICAL EQUIPMENT LAYOUT



OPERATION	COMPLEXITY LOW	HIGH
SCORING	1 TO 4 OPERATORS	
VIDEO	1 TO 2 OPERATORS	
AUDIO	1 TO 2 OPERATORS	

NOTE:
NUMBER OF OPERATORS NEEDED IS DEPENDENT ON LEVEL OF DESIRED PRODUCTION AND COMPLEXITY OF EVENT. SPACE NEEDED PER OPERATOR IS ABOUT 24 INCHES. NUMBERS PROVIDED ARE FOR REFERENCE ONLY. CONTACT YOUR DAKTRONICS SALESPERSON OR PROJECT MANAGER TO TALK THROUGH YOUR SITE NEEDS.

1 INPUT RACK ELEVATION



	HEAT LOAD (BTU/HR)	POWER LOAD (WATTS)	WEIGHT (LBS)	WEIGHT (KGS)
RACK TOTAL	337	99	34	15

1 - 20 AMP 120 VAC CIRCUIT

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THIRD ANGLE PROJECTION

PROJECT:	DEXTER HIGH SCHOOL			
TITLE:	RISER; 201; 1 IP RACK, AS-PRO S2, SSR-DM2			
DATE:	27 JAN 25	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE:	NONE	DO NOT SCALE DRAWING	201	00
DESIGN:	NDAY	JOB NO. / FUNC - TYPE - SIZE		
DRAWN:	NDAY	P837208 / F - 01 - D	5583213	