

- OWNER**  
MINNESOTA SPORTS FACILITIES AUTHORITY  
800 SOUTH 5TH STREET, MINNEAPOLIS, MN 55415
- ARCHITECT / INTERIORS / BRANDING**  
MINNESOTA VIKINGS FOOTBALL, LLC  
9500 WINDY DR., EDEN PRAIRIE, MN 55434
- ASSOCIATE ARCHITECT - SKIN**  
STUDIO HYE  
322 FIRST AVE. N. SUITE 600, MINNEAPOLIS, MN 55401
- ASSOCIATE ARCHITECT - INTERIORS**  
M&E ENGINEERS, INC.  
10555 WEST 43RD AVE., WHEAT RIDGE, CO 80033
- MEP / TECHNOLOGY / LIGHTING**  
M&E ENGINEERS, INC.  
10555 WEST 43RD AVE., WHEAT RIDGE, CO 80033
- STRUCTURAL ENGINEER**  
THORNTON TOMASETTI  
12760 MEHT DR., SUITE 750, LIBERTY, TX 75251
- CIVIL ENGINEER**  
EVS, INC.  
10200 VALLEY VIEW, SUITE 123, EDEN PRAIRIE, MN 55434
- LANDSCAPE ARCHITECT**  
OSLAND AND ASSOCIATES  
115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401
- AUDIO VISUAL CONSULTANTS**  
ACOUSTIC DIMENSIONS  
13558 WRIGHT BROTHERS DR., ADDISON, TX 75001
- CODE / FIRE PROTECTION**  
FSC, INC.  
6225 INDIAN CREEK, SUITE 300, OVERLAND PARK, KS 66210
- FOOD SERVICE**  
RSCA NEWHAMK  
5325 SOUTH VALENTIA, GREENWOOD VLG, CO 80111
- WAYFINDING**  
SELBERT PERKINS DESIGN  
432 CLAVER BLVD., PLANA DEL REY, CA 90293
- VERTICAL TRANSPORTATION**  
ELEVATOR ADVISORY GROUP  
14030 SERVICE AVE., SAINT PAUL, MN 55124
- ADA CONSULTANT**  
ED ROTHGER CONSULTING, LLC  
25960 MISSION BELLEVUE, LOUISBURG, KS 66503
- WIND / SNOW CONSULTANT**  
ROWAN, WILLIAMS, DAVES, AND RWIN, INC.  
850 WOODLAND RD., QUELLEN, ON CANADA, MN 55401
- BUILDING ENVELOPE CONSULTANT**  
THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611
- FAÇADE ACCESS CONSULTANT**  
LEROCH BATES, INC.  
8889 LINCOLN ST., SUITE 105, LITTLETON, CO 80122

**GENERAL NOTES:**

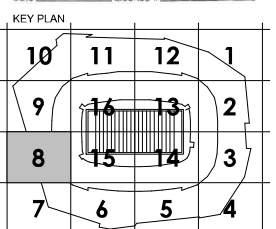
1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

3. PROVIDE CONNECTION TO OVERHEAD DOOR, UP/DOWNSTOP CONTROLLER, AND ALL ASSOCIATED CONTROL WIRING.
9. REFERENCE EY SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS FOR TV POWER LOCATION.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
77. PROVIDE 30AMP FUSED DISCONNECT WITH (1) 25A FUSE FOR 120V/1PH 1HP VERTICAL PLATFORM LIFT.
128. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE.
173. PROVIDE CONNECTION TO VAV CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.



**PROFESSIONAL ENGINEER**  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Print Name: Michael J. Capra  
Signature: [Signature]  
Date: 03/27/2015, License # 25884



REVISION NO.	DESCRIPTION	DATE
1	CCD-072	08/06/2014
2	CCD-078	08/13/2014
3	CCD-088	08/27/2014
4	CCD-093	07/26/2014
5	CCD-105	07/26/2014
6	ASB-105	07/26/2014
7	CCD-121	08/26/2014
8	CCD-123	08/28/2014
9	CCD-130	01/07/2015

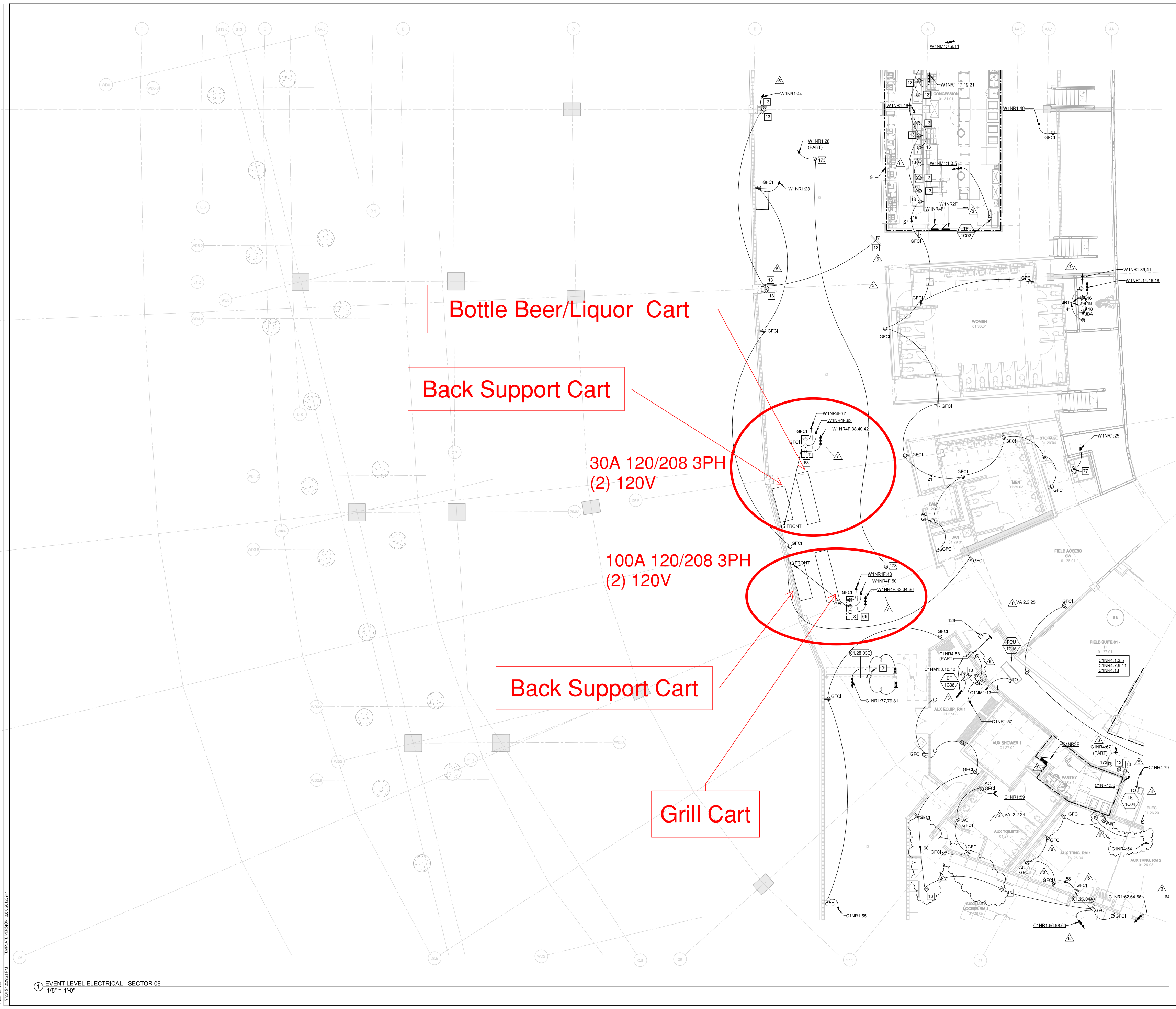
HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**EVENT LEVEL ELECTRICAL POWER - SECTOR 08**

SHEET NO.  
**E2.0108**



① EVENT LEVEL ELECTRICAL - SECTOR 08  
1/8" = 1'-0"

PLOT DATE: 05/02/2014 10:23:53 AM  
 TEMPLATE VERSION: 2.0 (2/20/2014)

**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 3" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

9. PROVIDE CONNECTION TO OVERHEAD DOOR, UP/DOWNSTOP CONTROLLER, AND ALL ASSOCIATED CONTROL WIRING.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
36. PROVIDE CONNECTION AS REQUIRED TO DETAIL KESB006.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
82. PROVIDE CONNECTION TO LED PLAY CLOCK.
150. PROVIDE HARD WIRED J-BOX CONNECTION TO GAME CLOCK MOUNTED AT 8' AFF. COORDINATE EXACT LOCATION WITH AV CONTRACTOR PRIOR TO INSTALL.
173. PROVIDE CONNECTION TO VAV CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.



PROFESSIONAL ENGINEER  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Print Name: *Scott V. Campbell*  
Signature: *[Signature]*  
Date: 03/07/2015, License #: 252884

**KEY PLAN**

10	11	12	1
9	16	13	2
8	15	14	3
7	6	5	4

**REVISION**

NO.	DESCRIPTION	DATE
1	CCD-079	08/13/2014
2	CCD-088	08/21/2014
3	CCD-109	07/25/2014
4	ASB-106	07/25/2014
5	CCD-121	08/20/2014
6	CCD-130	01/07/2015

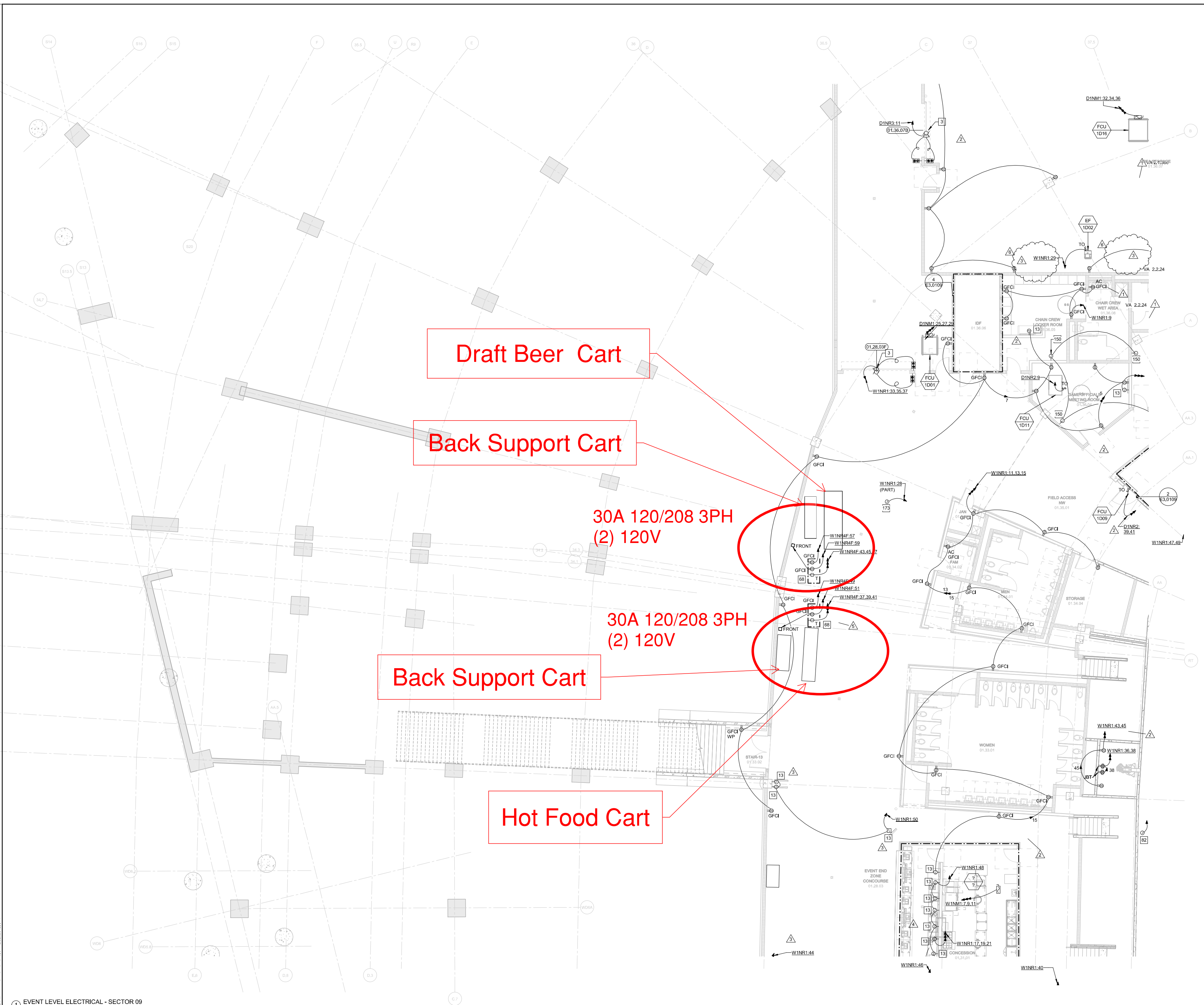
HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**EVENT LEVEL ELECTRICAL POWER - SECTOR 09**

SHEET NO.  
**E2.0109**



1 EVENT LEVEL ELECTRICAL - SECTOR 09  
1/8" = 1'-0"

PLOT DATE: 05/02/2014 10:23:29 AM  
 TEMPLATE DESIGN: 3.03.2010B01

**OWNER**  
MINNESOTA SPORTS FACILITIES AUTHORITY  
900 SOUTH 5TH STREET, MINNEAPOLIS, MN 55415

**ARCHITECT / INTERIORS / BRANDING**  
MINNESOTA VIKINGS FOOTBALL, LLC  
9500 WINDY DR., EDEN PRAIRIE, MN 55434

**ASSOCIATE ARCHITECT - SKIN**  
STUDIO VIVE  
350 N. ST. PAUL ST., SUITE 100, DALLAS, TX 75201

**ASSOCIATE ARCHITECT - INTERIORS**  
M&E ENGINEERS, INC.  
1055 WEST 43RD AVE., WHEAT RIDGE, CO 80033

**MEP / TECHNOLOGY / LIGHTING**  
THORNTON TOMASETTI  
12760 MERIT DR., SUITE 750, LB-7, DALLAS, TX 75251

**STRUCTURAL ENGINEER**  
THORNTON TOMASETTI  
12760 MERIT DR., SUITE 750, LB-7, DALLAS, TX 75251

**CIVIL ENGINEER**  
EVS, INC.  
1500 VALLEY VIEW, SUITE 123, EDEN PRAIRIE, MN 55434

**LANDSCAPE ARCHITECT**  
OSLAND AND ASSOCIATES  
115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401

**AUDIO VISUAL CONSULTANTS**  
ACOUSTIC DIMENSIONS  
15508 WRIGHT BROTHERS DR., ADDISON, TX 75001

**CODE / FIRE PROTECTION**  
F&C, INC.  
6225 INDIAN CREEK, SUITE 300, OVERLAND PARK, KS 66210

**FOOD SERVICE**  
RSCA NEWMARK  
6328 SOUTH VALENTIA, GREENWOOD VLG, CO 80111

**WAYFINDING**  
SELBERT PERKINS DESIGN  
433 CALVERT BLVD., PLAIN DEL REY, CA 90293

**VERTICAL TRANSPORTATION**  
ELEVATOR ADVISORY GROUP  
14030 PENNINGTON AVE., SAINT PAUL, MN 55124

**ADA CONSULTANT**  
ED BROTHER CONSULTING, LLC  
25650 MISSOURI BELLEVUE, LOUISBURG, KS 66603

**WIND / SNOW CONSULTANT**  
ROWAN, WILLIAMS, DAVIS, AND RYAN, INC.  
850 WOODLAND BLVD., W. QUINCY, ON CANADA MK 1R8

**BUILDING ENVELOPE CONSULTANT**  
THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

**FAÇADE ACCESS CONSULTANT**  
LERCH BATES, INC.  
8889 LINCOLN ST., SUITE 105, LITTLETON, CO 80122

**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
21. PROVIDE AND INSTALL 200V, 60AMP DISCONNECT FOR LED MATRIX BOARD. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
58. REFER TO DETAIL 2 IN SHEET E3.0121
60. REFER TO DETAIL 4 IN SHEET E3.0121
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
97. CONNECTION TO BUILDING CONTROL POWER.
98. PROVIDE A CONNECTION TO MECHANICAL CONTROL POWER AS REQUIRED.
129. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE INTERCONNECT WITH FIREALARM SYSTEM.
132. PROVIDE CONNECTION TO MAGNETIC DOOR HOLD OPEN CIRCUIT.
156. CONNECTS TO CONDENSING UNIT BELOW
173. PROVIDE CONNECTION TO WAVE CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
184. CONNECTION TO THE AV DEVICE. REFERENCE #2 ON AV DRAWINGS.
194. PROVIDE CONNECTION TO FIRE PLACE VALVE/THERMOSTAT CONTROL POWER. LOCATION BASED ON MANUFACTURERS RECOMMENDATIONS.



**PROFESSIONAL ENGINEER**  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Print Name: *Scott A. ...*  
Signature: *[Signature]*  
Date: 01/07/2015, License # 25684

**KEY PLAN**

10	11	12	1
9	14	13	2
8	15	14	3
7	6	5	4

**REVISION**

NO.	DESCRIPTION	DATE
1	CCD-079	08/13/2014
2	CCD-081	08/19/2014
3	CCD-088	08/27/2014
4	CCD-100	07/26/2014
5	ASB-106	07/26/2014
6	CCD-150	01/07/2015
7	ASB-152	10/31/2014

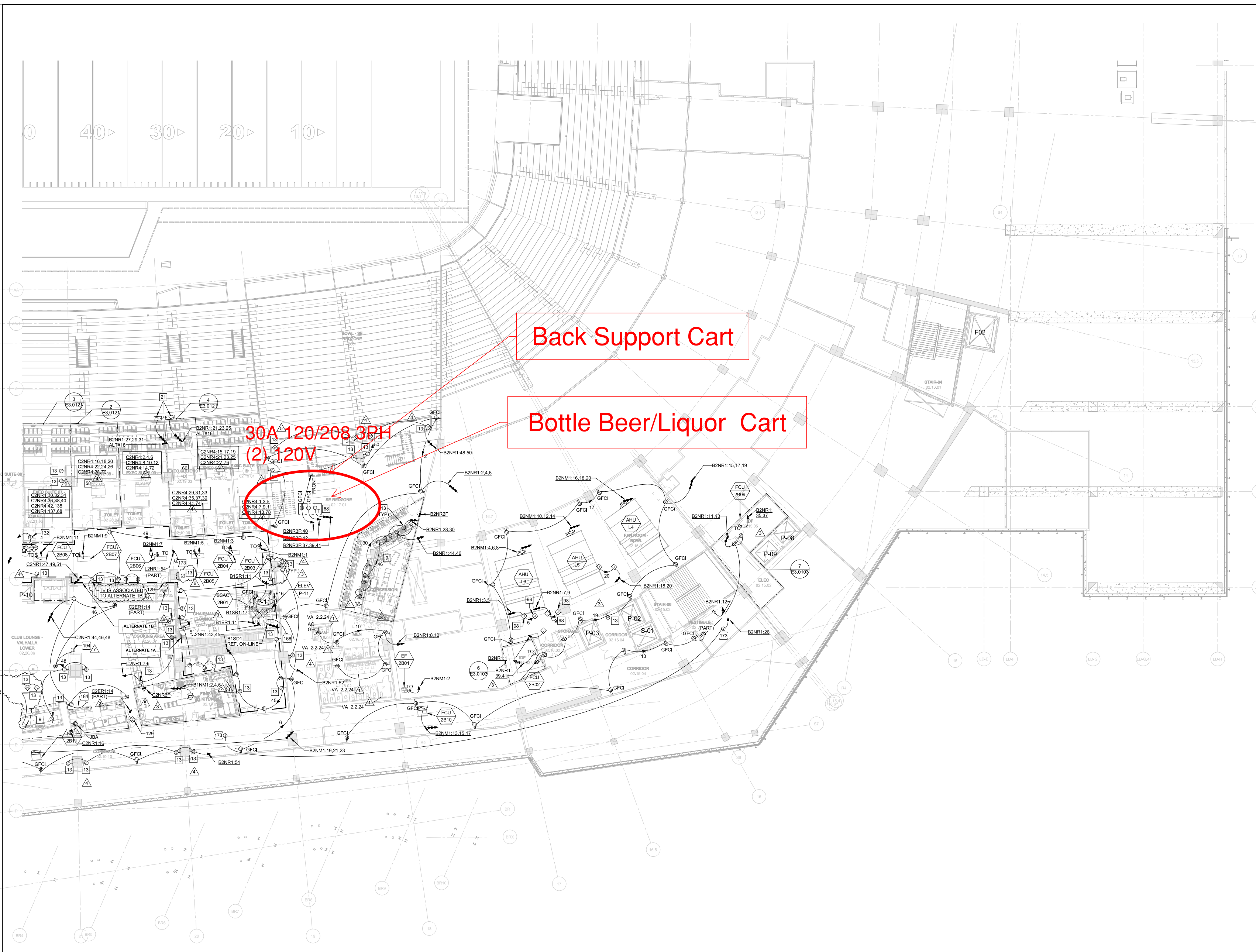
HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**EXECUTIVE SUITES ELECTRICAL POWER - SECTOR 14**

SHEET NO.  
**E2.0214**



1 EXECUTIVE SUITE LEVEL ELECTRICAL - SECTOR 14  
1/16" = 1'-0"

PLOT DATE: 05/02/2014 10:22:52 AM TEMPLATE DESIGN: 2.0.2010051

**GENERAL NOTES:**

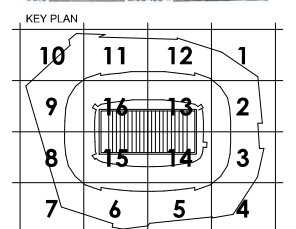
1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
12. PROVIDE 120V CONNECTION TO POWERED SIGNAGE. COORDINATE FINAL WIRING CONFIGURATION, CONTROL, AND LOCATION WITH FINAL SIGNAGE PACKAGE.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
16. REFERENCE TYPICAL SUITE PLANS FOR ROOM LAYOUTS.
21. PROVIDE AND INSTALL 208V 60A3P DISCONNECT FOR LED MATRIX BOARD. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
57. REFER TO DETAIL 1 IN SHEET E3.0121
58. REFER TO DETAIL 2 IN SHEET E3.0121
59. REFER TO DETAIL 3 IN SHEET E3.0121
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
97. CONNECTION TO BUILDING CONTROL POWER.
98. PROVIDE A CONNECTION TO MECHANICAL CONTROL POWER AS REQUIRED.
129. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIRE/ALARM SYSTEM.
132. PROVIDE CONNECTION TO MAGNETIC DOOR HOLD OPEN.
173. PROVIDE CONNECTION TO WAVE CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
184. CONNECTION TO THE AV DEVICE. REFERENCE #2 ON AV DRAWINGS.
194. PROVIDE CONNECTION TO FIRE PLACE VALVE/THERMOSTAT CONTROL POWER. LOCATION BASED ON MANUFACTURERS RECOMMENDATIONS.



**PROFESSIONAL ENGINEER**  
This report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Print Name: *[Signature]*  
Date: 01/27/2015, License #: 25884



REVISION NO.	DESCRIPTION	DATE
1	CCD-079	08/13/2014
2	CCD-081	08/13/2014
3	CCD-088	08/27/2014
4	CCD-093	07/06/2014
5	CCD-108	07/29/2014
6	CCD-150	01/07/2015
7	AS - 152	10/31/2014

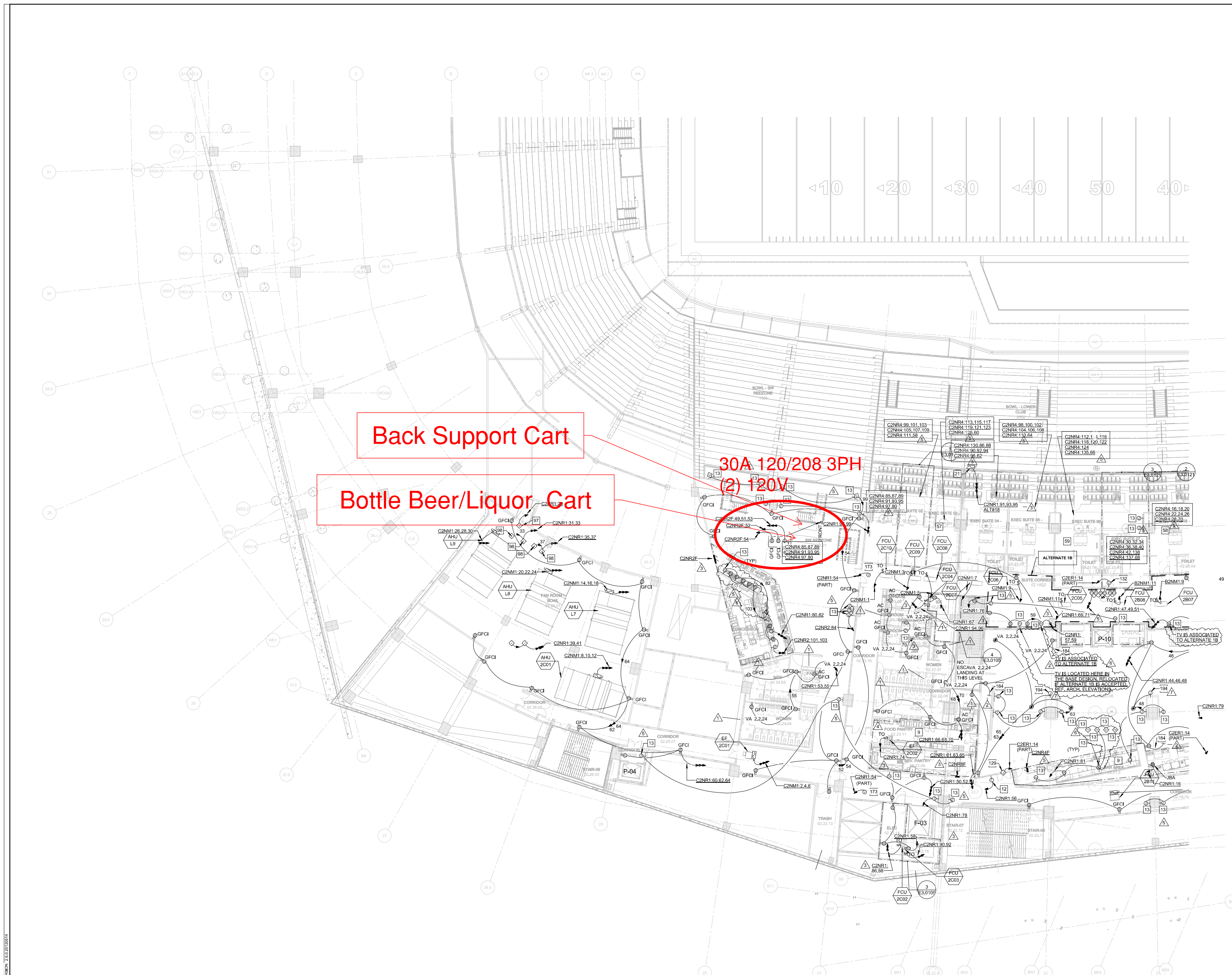
HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**EXECUTIVE SUITES ELECTRICAL POWER - SECTOR 15**

SHEET NO.  
**E2.0215**



**OWNER**  
MINNESOTA SPORTS FACILITIES AUTHORITY  
100 SOUTH 5TH STREET, MINNEAPOLIS, MN 55415

**ARCHITECT / INTERIORS / BRANDING**  
MINNESOTA VIKINGS FOOTBALL, LLC  
9500 WINDY DR., EDEN PRAIRIE, MN 55444

**ASSOCIATE ARCHITECT - SKIN**  
STUDIO HYE  
901 NORTH 3RD ST., SUITE 228, MINNEAPOLIS, MN 55401

**ASSOCIATE ARCHITECT - INTERIORS**  
M&E ENGINEERS, INC.  
10555 WEST 43RD AVE., WHEAT RIDGE, CO 80033

**MEP / TECHNOLOGY / LIGHTING**  
M&E ENGINEERS, INC.  
10555 WEST 43RD AVE., WHEAT RIDGE, CO 80033

**STRUCTURAL ENGINEER**  
TRONATION TOMASETTI  
12760 MEYER DR., SUITE 750, LIB-7, DALLAS, TX 75251

**CIVIL ENGINEER**  
EVS, INC.  
15200 VALLEY VIEW, SUITE 123, EDEN PRAIRIE, MN 55424

**LANDSCAPE ARCHITECT**  
OSLAND AND ASSOCIATES  
115 WASHINGTON ST., MINNEAPOLIS, MN 55401

**AUDIO VISUAL CONSULTANTS**  
ACOUSTIC DIMENSIONS  
15568 WRIGHT BROTHERS DR., ADDISON, TX 75001

**CODE / FIRE PROTECTION**  
F&C, INC.  
6225 INDIAN CREEK, SUITE 300, OVERLAND PARK, KS 66210

**FOOD SERVICE**  
RCCA NEWARK  
433 CALVERT BLVD., PLAZA DEL REY, CA 90293

**WAYFINDING**  
SELBERT PERKINS DESIGN  
25660 MISSOURI, BELLEVUE, WASHINGTON, WA 98005

**VERTICAL TRANSPORTATION**  
ELEVATOR ADVISORY GROUP  
14030 ROCKWOOD AVE., SAINT PAUL, MN 55124

**ADA CONSULTANT**  
ED BROTHER CONSULTING, LLC  
25660 MISSOURI, BELLEVUE, WASHINGTON, WA 98005

**WIND / SNOW CONSULTANT**  
ROWAN, WILLIAMS, DAVES, AND RWIN, INC.  
850 WOOD AVE. W., QUINCY, ILLINOIS, IL 62450

**BUILDING ENVELOPE CONSULTANT**  
THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

**FAÇADE ACCESS CONSULTANT**  
LEITCH BATES, INC.  
8689 LINCOLN ST., SUITE 105, LITTLETON, CO 80122

**GENERAL NOTES:**

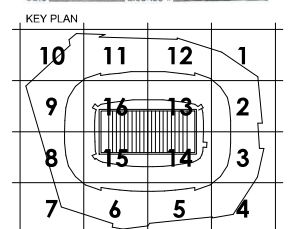
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3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
65. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "B" ON SHEET E6.0007 FOR MOUNTING DETAILS.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
71. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "H" ON SHEET E6.0007 FOR MOUNTING DETAILS.
79. PROVIDE CEILING MOUNTED DUPLEX ADJACENT TO PROJECTOR. COORDINATE EXACT LOCATION WITH AV CONTRACTOR PRIOR TO INSTALL.
80. PROVIDE AND INSTALL HARD WIRED JBOX CONNECTION TO PROJECTION SCREEN. COORDINATE EXACT LOCATION WITH AV CONTRACTOR PRIOR TO INSTALL.
97. CONNECTION TO BUILDING CONTROL POWER.
98. PROVIDE A CONNECTION TO MECHANICAL CONTROL POWER AS REQUIRED.
126. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE.
128. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
149. REFER TO DETAIL A/E6.0006 FOR ADA PEDESTAL DETAIL.
173. PROVIDE CONNECTION TO VAV CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
184. CONNECTION TO THE AV DEVICE. REFERENCE #2 ON AV DRAWINGS.



**PROFESSIONAL ENGINEER**  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Print Name: *[Signature]*  
Date: 03/07/2015, License # 25584



REVISION NO.	DESCRIPTION	DATE
1	CCD-079	08/13/2014
2	CCD-081	08/13/2014
3	CCD-088	08/27/2014
4	CCD-109	07/26/2014
5	ASB-196	07/26/2014
6	CCD-117	08/13/2014
7	CCD-136	01/08/2015
8	ASB-195	12/18/2014

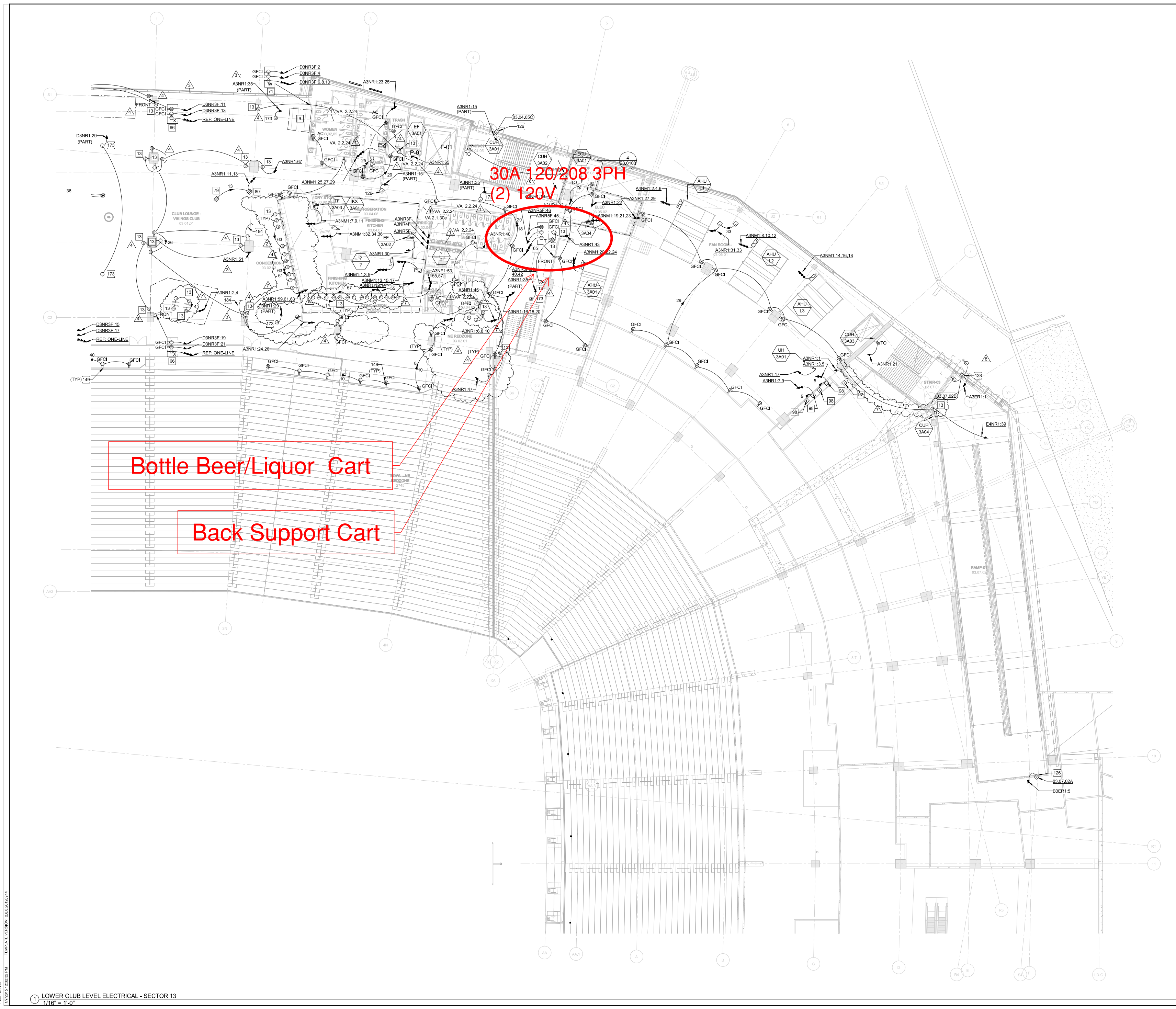
HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**LOWER CLUB FOOTBALL  
ELECTRICAL POWER -  
SECTOR 13**

SHEET NO.  
**E2.0313**



**Bottle Beer/Liquor Cart**

**Back Support Cart**

**30A 120/208 3PH  
(2) 120V**

**OWNER**  
MINNESOTA SPORTS FACILITIES AUTHORITY  
1500 WING DR., EDEEN PRARIE, MN 55444

**ARCHITECT / INTERIORS / BRANDING**  
HKS, INC.  
350 N. ST. PAUL ST., SUITE 100, DALLAS, TX 75201

**ASSOCIATE ARCHITECT - SKIN**  
THORNTON TOMASETTI  
1270 N. WASHINGTON ST., SUITE 228, MINNEAPOLIS, MN 55401

**ASSOCIATE ARCHITECT - INTERIORS**  
STUDIO VIVE  
901 NORTH 3rd ST., SUITE 228, MINNEAPOLIS, MN 55401

**MEP / TECHNOLOGY / LIGHTING**  
M&E ENGINEERS, INC.  
10555 WEST 43rd AVE., WHEAT RIDGE, CO 80033

**STRUCTURAL ENGINEER**  
THORNTON TOMASETTI  
1270 N. WASHINGTON ST., SUITE 228, MINNEAPOLIS, MN 55401

**CIVIL ENGINEER**  
EVS, INC.  
1500 VALLEY VIEW, SUITE 123, EDEEN PRARIE, MN 55444

**LANDSCAPE ARCHITECT**  
OSLAND AND ASSOCIATES  
1150 WASHINGTON ST., SUITE 100, MINNEAPOLIS, MN 55401

**AUDIO VISUAL CONSULTANTS**  
ACOUSTIC DIMENSIONS  
15508 WRIGHT BROTHERS DR., ADDISON, TX 75001

**CODE / FIRE PROTECTION**  
F&C, INC.  
6225 INDIAN CREEK, SUITE 300, OVERLAND PARK, KS 66210

**FOOD SERVICE**  
RCCA NEWMAK  
432 CLAYTON BLVD., PLAYA DEL REY, CA 90293

**WAYFINDING**  
SELBERT PERKINS DESIGN  
2560 MISSION BELLEVUE, LOUISBURG, KS 66503

**VERTICAL TRANSPORTATION**  
ELEVATOR ADVISORY GROUP  
1400 PENNINGTON AVE., SAINT PAUL, MN 55124

**ADA CONSULTANT**  
ED BROTHER CONSULTING, LLC  
2560 MISSION BELLEVUE, LOUISBURG, KS 66503

**WIND / SNOW CONSULTANT**  
ROWAN WILLIAMS, DAVES, AND RYAN, INC.  
850 WOOD AVE. RD. W., QUELTON, ON CANADA N1K 1R8

**BUILDING ENVELOPE CONSULTANT**  
THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

**FAÇADE ACCESS CONSULTANT**  
LEITCH BATES, INC.  
8889 LINCOLN ST., SUITE 105, LITTLETON, CO 80122

**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
12. PROVIDE 120V CONNECTION TO POWERED SIGNAGE. COORDINATE FINAL WIRING CONFIGURATION, CONTROL, AND LOCATION WITH FINAL SIGNAGE PACKAGE.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
71. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "H" ON SHEET E6.0007 FOR MOUNTING DETAILS.
97. CONNECTION TO BUILDING CONTROL POWER.
98. PROVIDE A CONNECTION TO MECHANICAL CONTROL POWER AS REQUIRED.
126. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE.
128. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
129. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIRE ALARM SYSTEM.
149. REFER TO DETAIL A/E6.0008 FOR ADA PEDESTAL DETAIL.
156. CONNECTS TO CONDENSING UNIT BELOW.
157. PROVIDE CONNECTION TO VAV CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
164. CONNECTION TO THE AV DEVICE. REFERENCE #2 ON AV DRAWINGS.



**PROFESSIONAL ENGINEER**  
I hereby certify that this design, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Print Name: *Michael J. Capra*  
Signature: *[Signature]*  
Date: 01/07/2015, License #: 25884

**KEY PLAN**

10	11	12	1
9	16	13	2
8	15	14	3
7	6	5	4

**REVISION**

NO.	DESCRIPTION	DATE
1	CCD-079	08/13/2014
2	CCD-081	08/16/2014
3	CCD-088	08/27/2014
4	CCD-099	07/11/2014
5	CCD-109	07/29/2014
6	ASB-106	07/26/2014
7	CCD-110	08/15/2014
8	CCD-150	01/07/2015

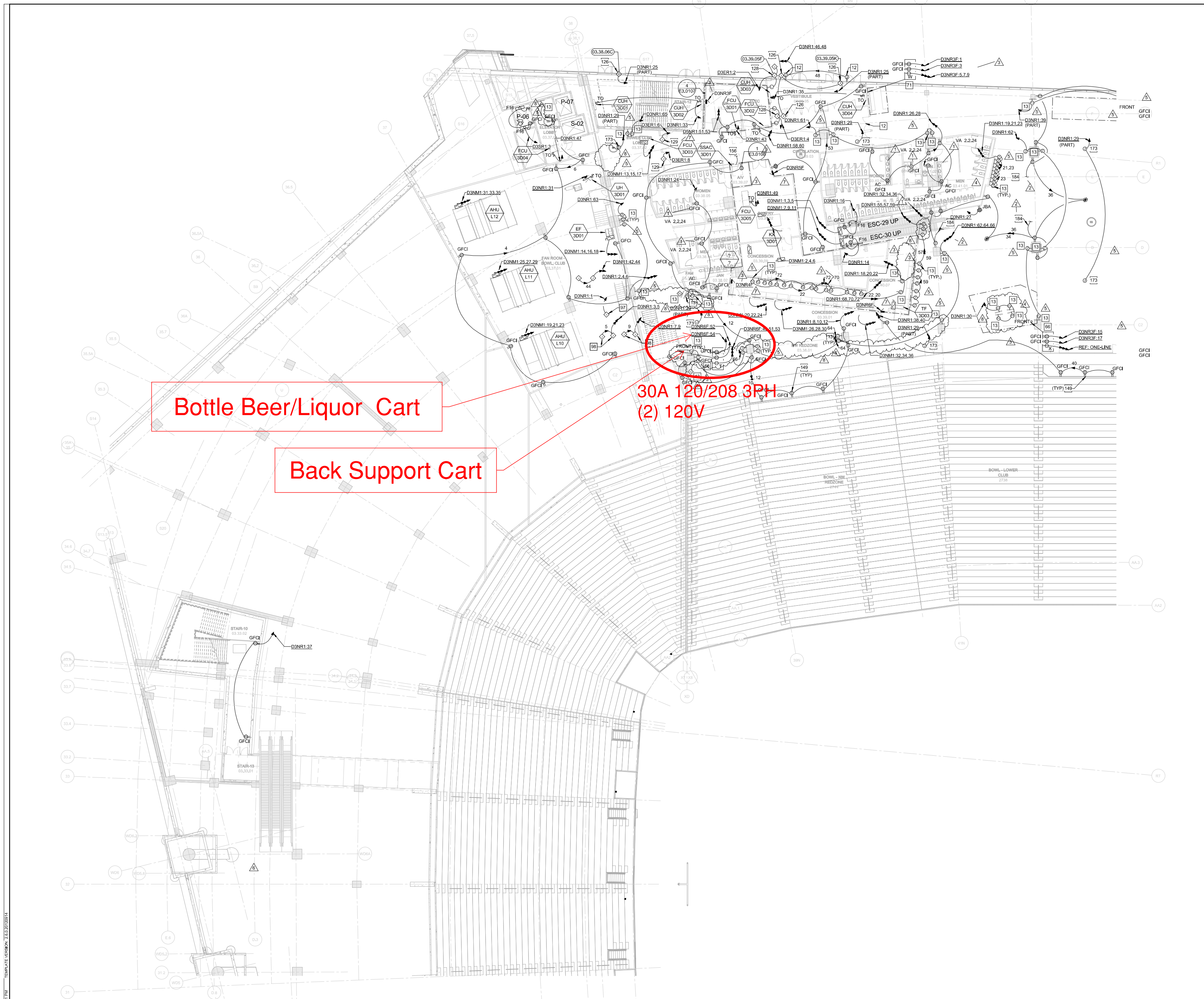
HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

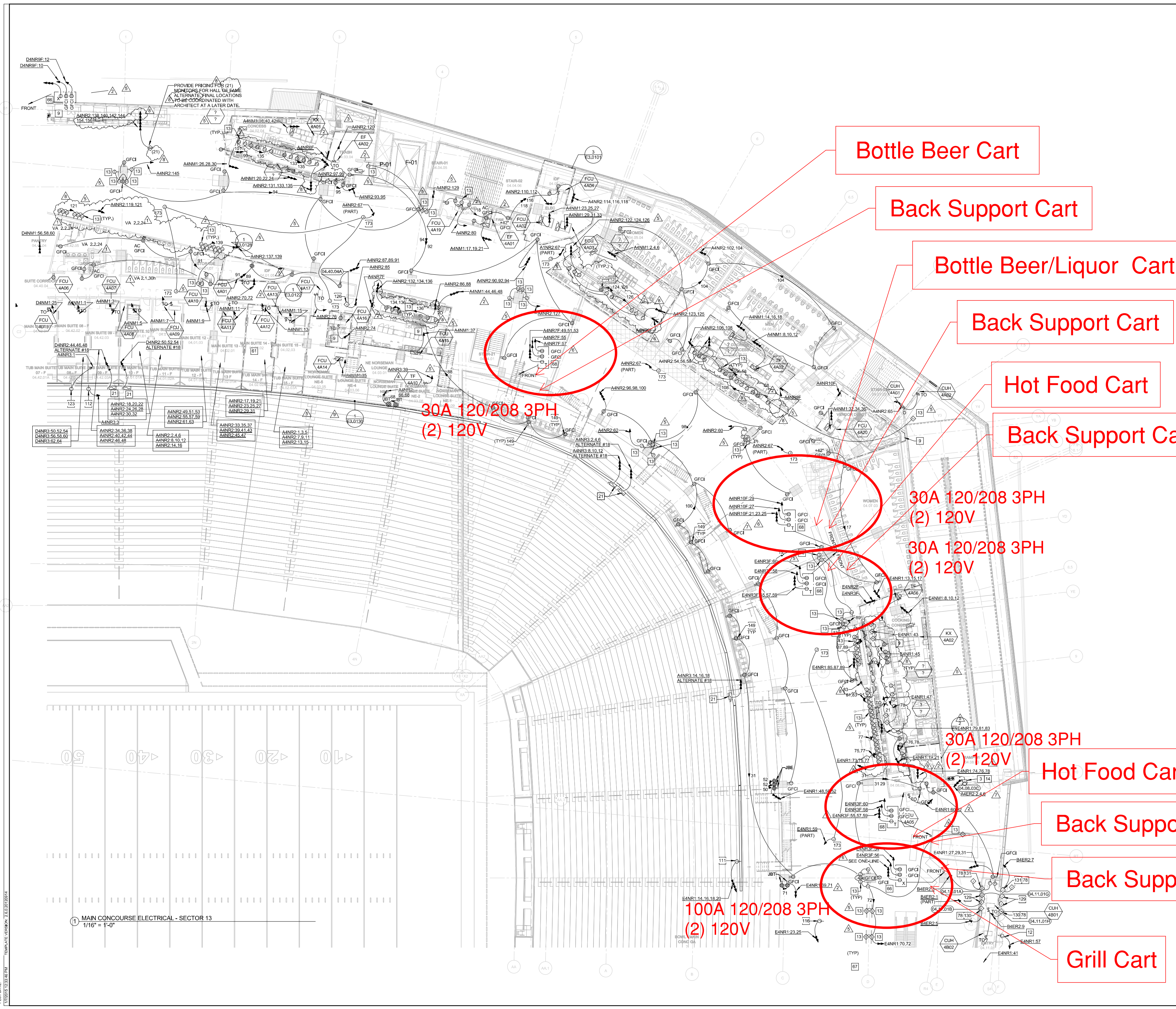
ISSUE  
**CCD-060**

SHEET TITLE  
**LOWER CLUB ELECTRICAL POWER - SECTOR 16**

SHEET NO.  
**E2.0316**



1 LOWER CLUB LEVEL ELECTRICAL - SECTOR 16  
1/16" = 1'-0"



**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 3" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

3. PROVIDE CONNECTION TO OVERHEAD DOOR UP/DOWNSTOP CONTROLLER, AND ALL ASSOCIATED CONTROL WIRING.
9. REFERENCE SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS. PROVIDE 120V CONNECTION TO POWERED SIGNAGE. COORDINATE FINAL WIRING CONFIGURATION, CONTROL, AND LOCATION WITH FINAL SIGNAGE PACKAGE.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
14. DOOR IS ASSOCIATED TO SMOKE EVACUATION SEQUENCE.
16. REFERENCE TYPICAL SUITE PLANS FOR ROOM LAYOUTS.
21. PROVIDE AND INSTALL 208V, 60A/3P DISCONNECT FOR LED MATRIX BOARD. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
61. REFER TO DETAIL 1" IN SHEET E3.0122.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL 'C' ON SHEET E6.0007 FOR MOUNTING DETAILS.
67. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL 'D' ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL 'E' ON SHEET E6.0007 FOR MOUNTING DETAILS.
78. PROVIDE POWER CONNECTION/CONTROLABILITY AND STATUS INDICATION OF SMOKE CONTROL OPERABLE DOOR.
111. PROVIDE CONNECTION TO INTERNALLY LIT NAMING RIGHTS LETTERS. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL L4E2.
112. PROVIDE CONNECTION TO INTERNALLY LIT NAMING RIGHTS LETTERS. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL L4D1.
116. PROVIDE CONNECTION TO INTERNALLY LIT NAMING RIGHTS SIGNAGE ADJACENT TO EAST VIDEO BOARD. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL L4E2.
123. PROVIDE AND INSTALL (1) 20A, 120V CIRCUIT FOR GAME IN PROGRESS BOARD BELOW LED MATRIX BOARD. SEE SHEET AV3.00 FOR MORE INFORMATION.
126. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIREALARM SYSTEM.
129. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE.
130. PROVIDE CONNECTION TO ELECTRIC AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE.
131. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
149. REFER TO DETAIL A1E6.0006 FOR ADA PRECAST DETAIL.
153. PROVIDE CONNECTION TO VAV CONTROLS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.

**KEY PLAN:**

10	11	12	1
9	14	13	2
8	15	14	3
7	6	5	4

**REVISION:**

NO.	DESCRIPTION	DATE
1	CCD-078	08/13/2014
2	CCD-088	08/22/2014
3	CCD-093	07/02/2014
4	CCD-099	07/11/2014
5	CCD-100	07/29/2014
6	ASB-106	07/26/2014
7	ASB-108	08/05/2014
8	CCD-100	01/02/2015
9	CCD-100	12/02/2014

**HKS PROJECT NUMBER:** 16246.000  
**DATE:** MAY 2, 2014  
**ISSUE:** CCD-060

**SHEET TITLE:** MAIN CONCOURSE ELECTRICAL POWER - SECTOR 13  
**SHEET NO.:** E2.0413

©2014 HKS, INC.

**HKS**

**OWNER:** MINNESOTA SPORTS FACILITIES AUTHORITY  
 1500 W. 5th STREET, MINNEAPOLIS, MN 55415

**ARCHITECT / INTERIORS / BRANDING:** MINNESOTA VIKINGS FOOTBALL, LLC  
 9500 WING DR., EDEN PRAIRIE, MN 55434

**ASSOCIATE ARCHITECT - SKIN:** STUDIO VIVE  
 901 NORTH 3rd ST., SUITE 228, MINNEAPOLIS, MN 55401

**ASSOCIATE ARCHITECT - INTERIORS:** M&E ENGINEERS, INC.  
 10555 WEST 43rd AVE., WHEAT RIDGE, CO 80033

**MEP / TECHNOLOGY / LIGHTING:** STRUCTURAL ENGINEER  
 THORNTON TOMASETTI  
 12760 MEHT DR., SUITE 750, LB-7, DALLAS, TX 75251

**CIVIL ENGINEER:** CIVIL ENGINEER  
 10500 VALLEY VIEW, SUITE 123, EDEN PRAIRIE, MN 55434

**LANDSCAPE ARCHITECT:** LANDSCAPE ARCHITECT  
 115 WASHINGTON AVE. N., MINNEAPOLIS, MN 55401

**AUDIO VISUAL CONSULTANTS:** AUDIO VISUAL CONSULTANTS  
 15508 WRIGHT BROTHERS DR., ADDISON, TX 75001

**CODE / FIRE PROTECTION:** CODE / FIRE PROTECTION  
 RSCA NEWARK  
 2500 SOUTH VALLENTIA, GREENWOOD VLG. CO 80111

**FOOD SERVICE:** FOOD SERVICE  
 433 CLAVIER BLVD., PLUMASSEL, CA 90293

**WAYFINDING:** WAYFINDING  
 SELBERT PERKINS DESIGN  
 1400 WASHINGTON AVE. N., MINNEAPOLIS, MN 55412

**VERTICAL TRANSPORTATION:** VERTICAL TRANSPORTATION  
 THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
 330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

**ADA CONSULTANT:** ADA CONSULTANT  
 ED BROTHER CONSULTING, LLC  
 2500 WASHINGTON BELLEVUE, LOUISBURG, KS 66003

**WIND / SNOW CONSULTANT:** WIND / SNOW CONSULTANT  
 ROWAN, WILLIAMS, DAVES, AND RYAN, INC.  
 650 WOOD AVE. DR., CANANDAIGUA, NY 14027

**BUILDING ENVELOPE CONSULTANT:** BUILDING ENVELOPE CONSULTANT  
 THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
 330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

**FAÇADE ACCESS CONSULTANT:** FAÇADE ACCESS CONSULTANT  
 LERCH BATES, INC.  
 8689 LINCOLN ST., SUITE 105, LITTLETON, CO 80122

**PROFESSIONAL ENGINEER:** PROFESSIONAL ENGINEER  
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
 Print Name: David J. Gagnier  
 Signature: [Signature]  
 Date: 03/27/2015, License # 25884

**KEY PLAN:**

10	11	12	1
9	14	13	2
8	15	14	3
7	6	5	4

**REVISION:**

NO.	DESCRIPTION	DATE
1	CCD-078	08/13/2014
2	CCD-088	08/22/2014
3	CCD-093	07/02/2014
4	CCD-099	07/11/2014
5	CCD-100	07/29/2014
6	ASB-106	07/26/2014
7	ASB-108	08/05/2014
8	CCD-100	01/02/2015
9	CCD-100	12/02/2014

**HKS PROJECT NUMBER:** 16246.000  
**DATE:** MAY 2, 2014  
**ISSUE:** CCD-060

**SHEET TITLE:** MAIN CONCOURSE ELECTRICAL POWER - SECTOR 13  
**SHEET NO.:** E2.0413

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**GENERAL NOTES:**

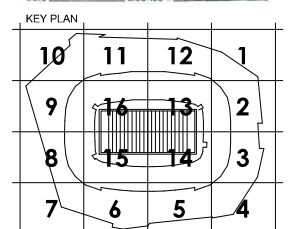
1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

12. PROVIDE 120V CONNECTION TO POWERED SIGNAGE. COORDINATE FINAL WIRING CONFIGURATION, CONTROL, AND LOCATION WITH FINAL SIGNAGE PACKAGE.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
20. DEDICATED BRANCH CIRCUIT(S) FOR RPT GFCI RECEPTACLE(S) AND LIGHTING. LIGHTING FIXTURES SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI DEVICE NOR SHALL THE RECEPTACLE BE SWITCHED.
21. PROVIDE AND INSTALL 200V 60A 3P GFCI RECEPTACLE FOR LED MATRIX BOARD. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
61. REFER TO DETAIL "I" IN SHEET E3.0122
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "D" ON SHEET E6.0007 FOR MOUNTING DETAILS.
67. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "F" ON SHEET E6.0007 FOR MOUNTING DETAILS.
78. PROVIDE POWER CONNECTION, CONTROLLABILITY AND STATUS INDICATION OF SMOKE CONTROL OPERABLE DOOR.
116. PROVIDE CONNECTION TO INTERNALLY LIT FOUNDING SPONSOR SIGNAGE ADJACENT TO EAST VIDEO BOARD. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL LAE2.
126. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIREALARM SYSTEM.
129. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIREALARM SYSTEM.
130. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
131. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
149. REFER TO DETAIL AVE6.0006 FOR ADA PEDESTAL DETAIL.
155. CONDENSING UNIT CONNECTS TO SPLIT SYSTEM ON FLOOR ABOVE.
173. PROVIDE CONNECTION TO WAY CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
187. TV CONNECTIONS SHOWN ARE TO BE IN ADDITION TO THE (3) TV CONNECTIONS SHOWN WITHIN THE TYPICAL SUITE F ELECTRICAL LAYOUT. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.



**PROFESSIONAL ENGINEER**  
I hereby certify that this design, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Print Name: Scott E. Johnson  
Signature: [Signature]  
Date: 05/27/2014, License # 25884



REVISION	NO.	DESCRIPTION	DATE
1	CCD-078		08/13/2014
2	CCD-088		08/22/2014
3	CCD-099		07/11/2014
4	CCD-109		07/26/2014
5	AB-106		07/26/2014
6	CCD-117		08/16/2014
7	AB-180		05/05/2014
8	CCD-150		01/07/2015
9	CCD-160		12/02/2014

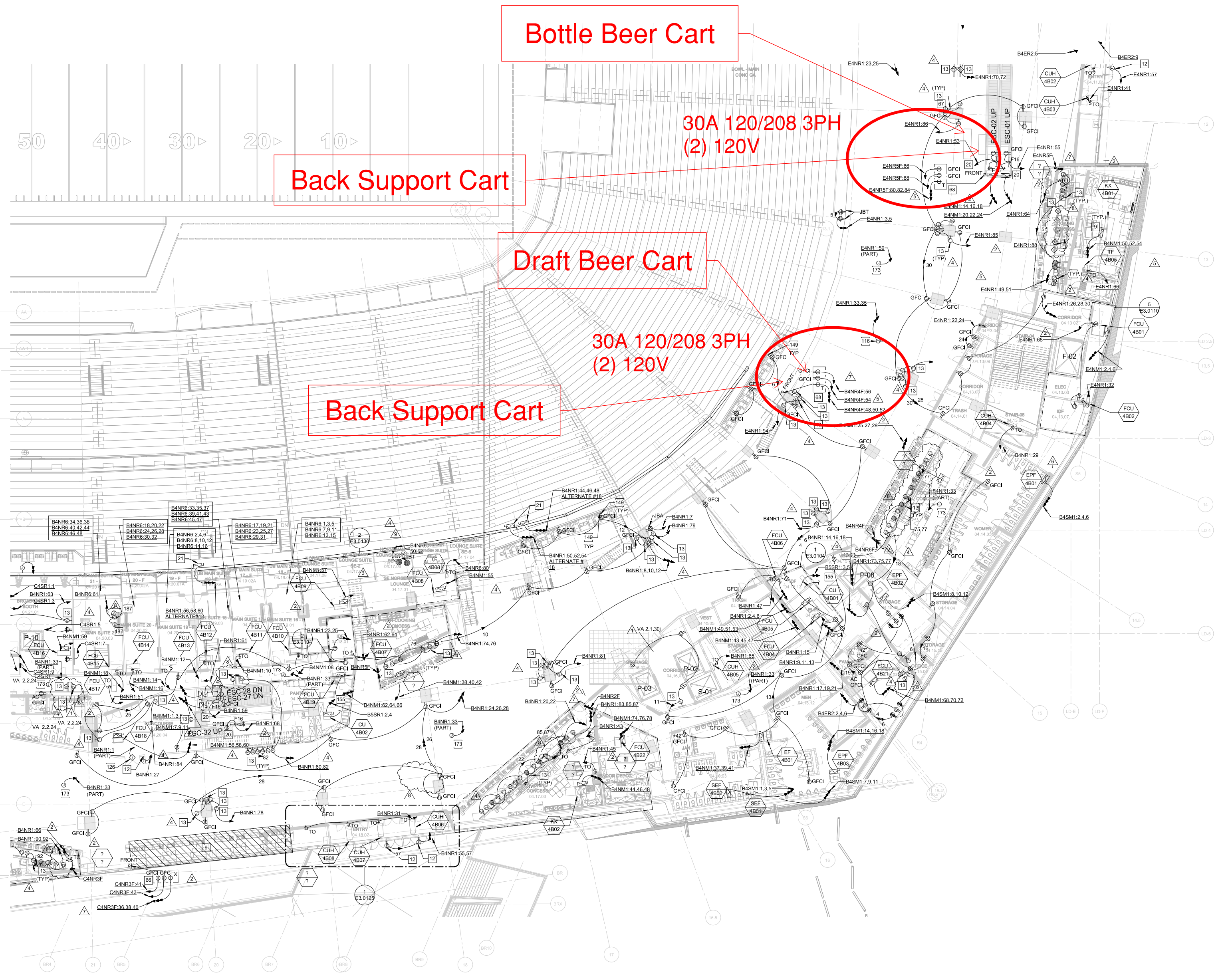
HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**MAIN CONCOURSE ELECTRICAL POWER - SECTOR 14**

SHEET NO.  
**E2.0414**



**Bottle Beer Cart**

**Back Support Cart**

**Draft Beer Cart**

**Back Support Cart**

**30A 120/208 3PH  
(2) 120V**

**30A 120/208 3PH  
(2) 120V**

1 MAIN CONCOURSE ELECTRICAL - SECTOR 14  
1/16" = 1'-0"



**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 2 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

12. PROVIDE 120V CONNECTION TO POWERED SIGNAGE. COORDINATE FINAL WIRING CONFIGURATION, CONTROL, AND LOCATION WITH FINAL SIGNAGE PACKAGE.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
20. DEDICATED BRANCH CIRCUIT(S) FOR RPT (GFCI RECEPTACLE(S) AND LIGHTING. LIGHTING FIXTURES SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI DEVICE NOR SHALL THE RECEPTACLE BE SWITCHED.
24. PROVIDE AND INSTALL 200V, 60AMP DISCONNECT FOR LED MATRIX BOARD. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
76. PROVIDE POWER CONNECTION CONTROLLABILITY AND STATUS INDICATION OF SMOKE CONTROL OPERABLE DOOR.
99. ROBOTIC CAMERA POSITION LOCATED UNDER SEATING DECK. COORDINATE WITH ELECTRICAL SYSTEMS CONTRACTOR.
110. PROVIDE CONNECTION TO INTERNALLY LIT NAMING RIGHTS LETTERS. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL L4C1.
129. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIREALARM SYSTEM.
130. PROVIDE CONNECTION TO ELECTRIC AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE.
131. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
149. REFER TO DETAIL A/E6.0006 FOR ADA PEDESTAL DETAIL.
173. PROVIDE CONNECTION TO WAY CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.
190. DEVICE POWER ROUTED ON THIS COLUMN SHALL HAVE A FLEXIBLE CONNECTION TRANSITIONING FROM PIVOT DOOR TO FIXED BUILDING STRUCTURE. SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH STRUCTURE.



**PROFESSIONAL ENGINEER**  
I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Project Name: **CCD-060**  
Date: 05/27/2014, License # 25884

**KEY PLAN**

10	11	12	1
9	14	13	2
8	15	14	3
7	6	5	4

**REVISION**

NO.	DESCRIPTION	DATE
1	CCD-078	08/13/2014
2	CCD-088	08/27/2014
3	CCD-099	07/11/2014
4	CCD-100	07/26/2014
5	AS-106	07/26/2014
6	CCD-119	08/26/2014
7	AS-120	08/26/2014
8	AS-133	09/19/2014
9	CCD-150	01/07/2015

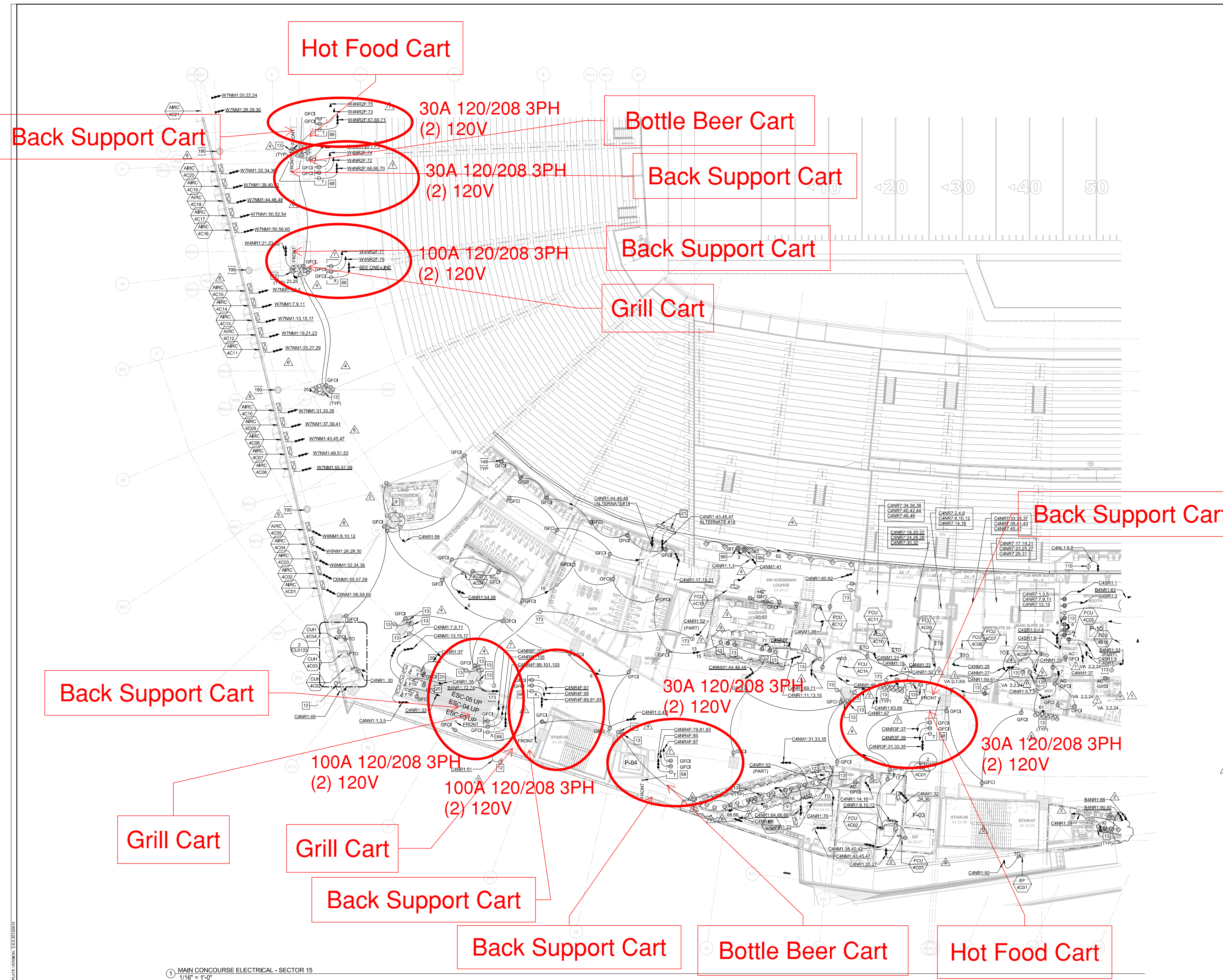
HKS PROJECT NUMBER  
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DATE  
**MAY 2, 2014**

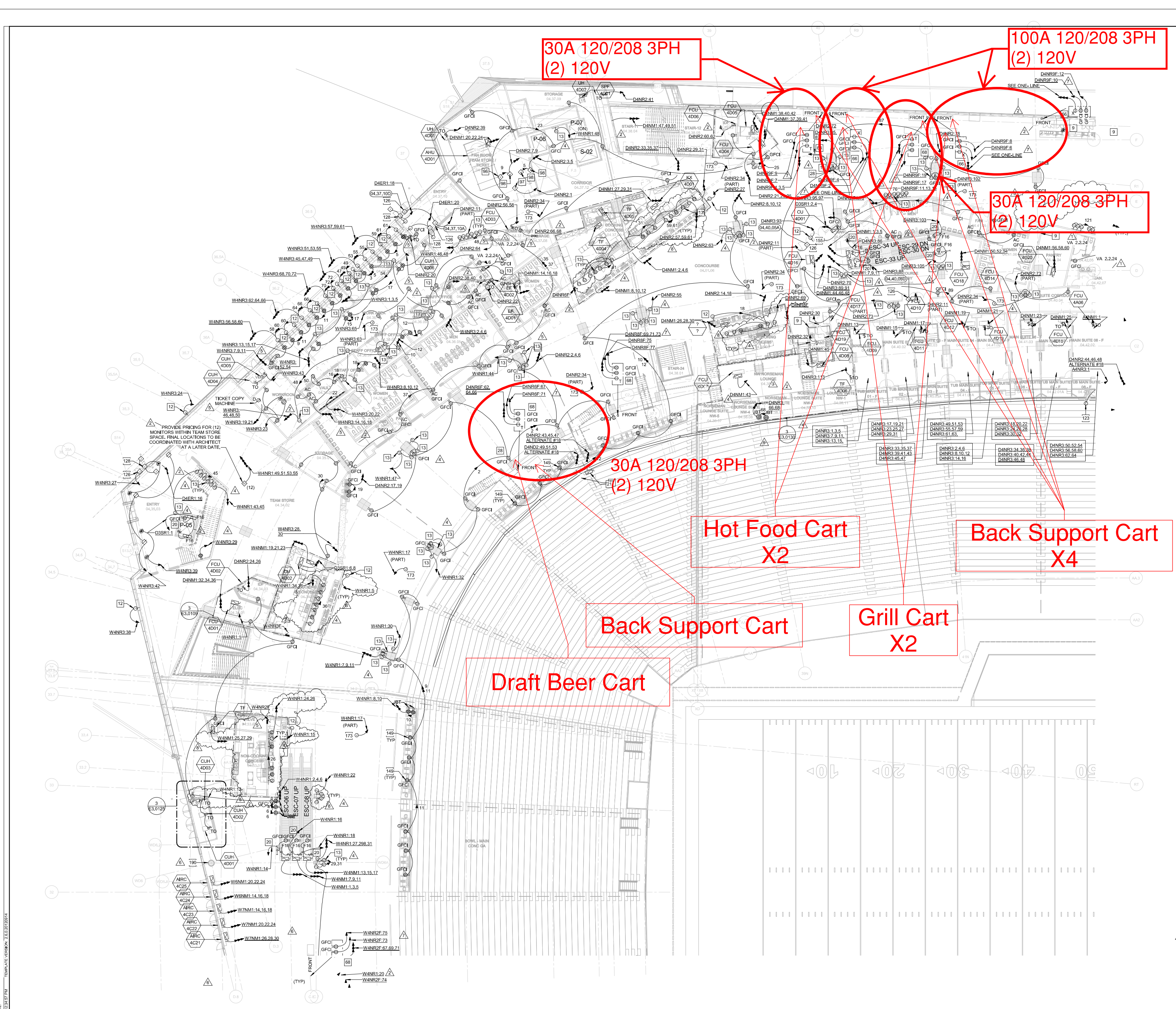
ISSUE  
**CCD-060**

SHEET TITLE  
**MAIN CONCOURSE ELECTRICAL POWER - SECTOR 15**

SHEET NO.  
**E2.0415**



1 MAIN CONCOURSE ELECTRICAL - SECTOR 15  
1/16" = 1'-0"



- GENERAL NOTES:**
1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
  2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
  3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
  4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
  5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
  6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

- KEYNOTES:**
9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
  12. PROVIDE 120V CONNECTION TO POWERED SIGNAGE. COORDINATE FINAL WIRING CONFIGURATION, CONTROL, AND LOCATION WITH FINAL SIGNAGE PACKAGE.
  13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
  16. REFERENCE TYPICAL SUITE PLANS FOR ROOM LAYOUTS.
  20. DESIGNATED BRANCH CIRCUIT(S) FOR FRT (GFCI RECEPTACLE(S) AND LIGHTING. LIGHTING FIXTURES SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI DEVICE NOR SHALL THE RECEPTACLE BE SWITCHED.
  21. PROVIDE AND INSTALL 208V, 60A/3P DISCONNECT FOR LED MATRIX BOARD. DISCONNECT FINAL LOCATION PRIOR TO INSTALLATION.
  26. GFCI AND USB QUAD RECEPTACLE. REFER TO DETAIL G66.0003.
  28. REFER TO DETAIL "I" IN SHEET E3.0122.
  66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
  68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
  76. PROVIDE POWER CONNECTION CONTROL LABILITY AND STATUS INDICATION OF SMOKE CONTROL OPERABLE DOOR.
  97. CONNECTION TO BUILDING CONTROL POWER.
  98. PROVIDE A CONNECTION TO MECHANICAL CONTROL POWER AS REQUIRED.
  112. PROVIDE CONNECTION TO INTERNALLY LIT NAMING RIGHTS LETTERS. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL LAD1.
  123. PROVIDE AND INSTALL (1) 20A, 120V CIRCUIT FOR GAME IN PROGRESS BOARD BELOW LED MATRIX BOARD. SEE SHEET A03.00 FOR MORE INFORMATION.
  126. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE.
  128. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
  129. PROVIDE CONNECTION TO ELECTRIC DOOR HARDWARE. INTERCONNECT WITH FIREALARM SYSTEM.
  130. PROVIDE CONNECTION TO ELECTRIC AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE.
  131. PROVIDE CONNECTION TO ADA AUTOMATIC DOOR OPENER. INTERCONNECT WITH FIREALARM SYSTEM AND ELECTRIC DOOR HARDWARE. PROVIDE CONDUIT AND CONTROL WIRING TO ASSOCIATED ACTUATOR BUTTONS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUATOR LOCATION AND MOUNTING HEIGHTS.
  149. REFER TO DETAIL A66.0006 FOR ADA PEDESTAL DETAIL.
  155. CONDENSING UNIT CONNECTS TO SPLIT SYSTEM ON FLOOR ABOVE.
  173. PROVIDE CONNECTION TO VAV CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
  190. DEVICE POWER ROUTED ON THIS COLUMN SHALL HAVE A FLEXIBLE CONNECTION TRANSITIONING FROM PIVOT DOOR TO FIXED BUILDING STRUCTURE. SURFACE MOUNTED CONDUIT TO BE PARIED TO MATCH STRUCTURE.

**HKS**

**OWNER**  
MINNESOTA SPORTS FACILITIES AUTHORITY  
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**ARCHITECT / INTERIORS / BRANDING**  
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**AUDIO VISUAL CONSULTANTS**  
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13558 WRIGHT BROTHERS DR., ADDISON, TX 75001

**CODE / FIRE PROTECTION**  
FSC, INC.  
6225 NOIAN CREEK, SUITE 300, OVERLAND PARK, KS 66210

**FOOD SERVICE**  
RICCA NEWMAK  
432 CALVER BLVD., PLAYA DEL REY, CA 90293

**WAYFINDING**  
SELBERT PERKINS DESIGN  
1400 PENNSYLVANIA AVE., SUITE 100, MINNEAPOLIS, MN 55414

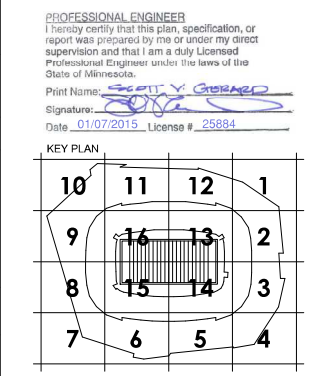
**VERTICAL TRANSPORTATION**  
ELEVATOR ADVISORY GROUP  
1400 PENNSYLVANIA AVE., SUITE 100, MINNEAPOLIS, MN 55414

**ADA CONSULTANT**  
ED BROTHER CONSULTING, LLC  
2560 MISSION BELLEVUE, LOUISBURG, KS 66503

**WIND / SNOW CONSULTANT**  
ROWAN, WILLIAMS, DAVES, AND RYAN, INC.  
850 WOOD AVE. W., GUELPH, ON CANADA N1K 1B8

**BUILDING ENVELOPE CONSULTANT**  
THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

**FAÇADE ACCESS CONSULTANT**  
LEICHTER, INC.  
8889 LINCOLN ST., SUITE 105, LITTLETON, CO 80122



NO.	DESCRIPTION	DATE
1	CCD-079	08/13/2014
2	CCD-088	08/21/2014
3	CCD-099	07/11/2014
4	CCD-100	07/26/2014
5	ASB-106	07/26/2014
6	CCD-119	08/26/2014
7	ASB-138	08/26/2014
8	CCD-150	01/02/2015
9	CCD-160	12/24/2014

HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**MAIN CONCOURSE ELECTRICAL POWER - SECTOR 16**

SHEET NO.  
**E2.0416**

Hot Food Cart

Hot Food Cart

Bottle Beer Cart

30A 120/208 3PH  
(2) 120V

30A 120/208 3PH  
(2) 120V

100A 120/208 3PH  
(2) 120V

Back Support Cart  
X3

Grill Cart

Back Support Cart

30A 120/208 3PH  
(2) 120V

100A 120/208 3PH  
(2) 120V

Back Support Cart

Grill Cart

Back Support Cart

Draft Beer Cart

Bottle Beer Cart

Bottle Beer/Liquor Cart

Hot Food Cart

Grill Cart

100A 120/208 3PH  
(2) 120V

Grill Cart

Back Support Cart

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 5 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

KEYNOTES:

- 3 PROVIDE CONNECTION TO OVERHEAD DOOR UP/DOWNSTOP CONTROLLER, AND ALL ASSOCIATED CONTROL WIRING.
- 9 REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
- 13 REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
- 14 DOOR IS ASSOCIATED TO SMOKE EVACUATION SEQUENCE.
- 20 DEDICATED BRANCH CIRCUIT(S) FOR PRT GFCI RECEPTACLE(S) AND LIGHTING. LIGHTING FIXTURES SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI DEVICE NOR SHALL THE RECEPTACLE BE SWITCHED.
- 21 PROVIDE AND INSTALL 208V, 60A/3P DISCONNECT FOR LED MATRIX BOARD, COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
- 65 RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "B" ON SHEET E6.0007 FOR MOUNTING DETAILS.
- 66 RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
- 68 RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
- 149 REFER TO DETAIL A16.0006 FOR ADA PEDESTAL DETAIL.
- 155 CONDENSING UNIT CONNECTS TO SPLIT SYSTEM ON FLOOR ABOVE.
- 173 PROVIDE CONNECTION TO VAV CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.

**HKS**

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1500 W. 5TH STREET, MINNEAPOLIS, MN 55415

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632 SOUTH VALENTIA, GREENWOOD VLG, CO 80111

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330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

FAÇADE ACCESS CONSULTANT  
LEROCH BATES, INC.  
8889 LINCOLN ST., SUITE 105, LITTLETON, CO 80122



PROFESSIONAL ENGINEER  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: *[Signature]*  
Signature: *[Signature]*  
Date: 03/27/2015, License # 25584

KEY PLAN

10	11	12	1
9	14	13	2
8	15	14	3
7	6	5	4

REVISION

NO.	DESCRIPTION	DATE
1	CCD-060	08/27/2014
2	CCD-100	07/26/2014
3	AS-100	07/26/2014
4	CCD-117	08/15/2014
5	AS-100	08/08/2014
6	AS-133	08/18/2014
7	CCD-100	01/07/2015

HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**UPPER CONCOURSE ELECTRICAL POWER - SECTOR 13**

SHEET NO.  
**E2.0713**

UPPER CONCOURSE ELECTRICAL - SECTOR 13  
1/16" = 1'-0"

PLOT DATE: 07/27/2014 12:38:14 PM TEMPLATE VERSION: 2.0 (2/10/2014)

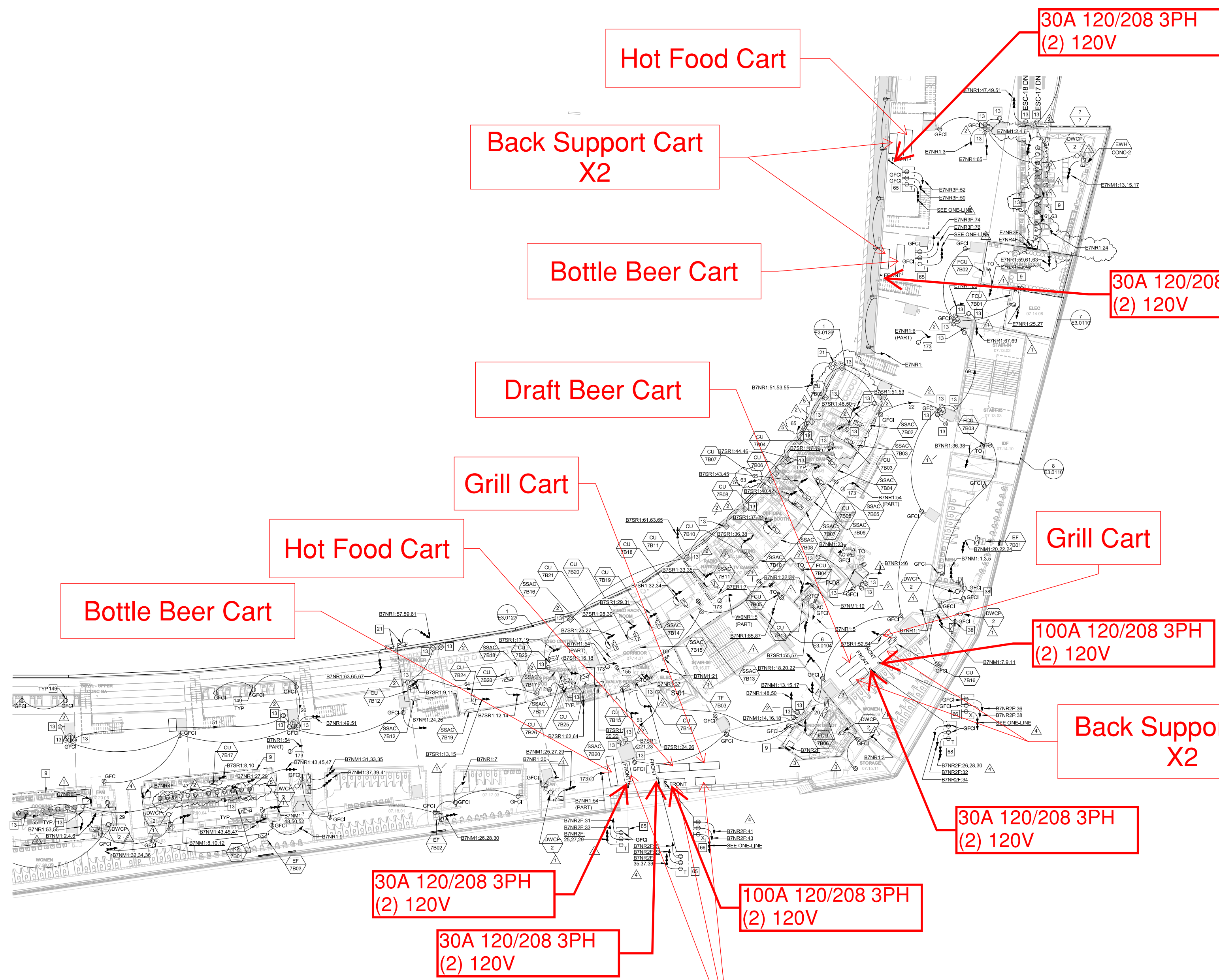
©2014 HKS, INC.

**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTINGS SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

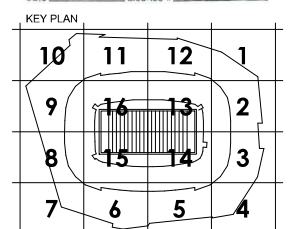
9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
21. PROVIDE AND INSTALL 200V, 60A 3P DECONNECT FOR LED MATRIX BOARD, COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
38. DEVICES LOCATED ABOVE CEILING ADJACENT TO MECHANICAL/PLUMBING EQUIPMENT.
65. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "B" ON SHEET E6.0007 FOR MOUNTING DETAILS.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "F" ON SHEET E6.0007 FOR MOUNTING DETAILS.
81. AV FLOOR BOX LOCATION, COORDINATE EXACT LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
89. AV VIDEO WALL, COORDINATE EXACT LOCATION WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
90. PROVIDE (6) 120V 20A CIRCUITS FOR AV RACK.
92. PROVIDE 120V 20A DEDICATED CIRCUIT FOR NFL BOX.
149. REFER TO DETAIL A/E6.0006 FOR ADA PEDESTAL DETAIL.
155. PROVIDE CONNECTION TO WAY CONTROLS, COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALL.



1 UPPER CONCOURSE ELECTRICAL - SECTOR 14  
1/16" = 1'-0"



**PROFESSIONAL ENGINEER**  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Date: 03/27/2015, License #: 25584



REVISION	NO.	DESCRIPTION	DATE
1	CCD-060		06/27/2014
2	CCD-198		07/26/2014
3	AS-158		07/26/2014
4	AS-157		08/16/2014
5	CCD-199		01/06/2015

HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**UPPER CONCOURSE ELECTRICAL POWER - SECTOR 14**

SHEET NO.  
**E2.0714**

**OWNER**  
MINNESOTA SPORTS FACILITIES AUTHORITY  
800 SOUTH 5TH STREET, MINNEAPOLIS, MN 55415

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**CIVIL ENGINEER**  
LANDSCAPE ARCHITECT  
THORNTON TOMASETTI  
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**CODE / FIRE PROTECTION**  
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RISCA NEWMARK  
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**VERTICAL TRANSPORTATION**  
ELEVATOR ADVISORY GROUP  
25660 MISSION BELLEVUE, LOUISBURG, KS 66503

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ED BROTHER CONSULTING, LLC  
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**FAÇADE ACCESS CONSULTANT**  
LEROCH BATES, INC.  
8889 LINCOLN ST., SUITE 105, LITTLETON, CO 80122

**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
19. PROVIDE 30A 208Y/120V 3 PHASE LOCKING NEMA L2-30P CONNECTION TO SKY CAM MOTOR. VERIFY EXACT LOCATION WITH ES DRAWINGS AND AERIAL CAMERA CONTRACTOR PRIOR TO INSTALL.
20. DEDICATED BRANCH CIRCUIT(S) FOR PIT GFCI RECEPTACLES AND LIGHTING. LIGHTING FIXTURES SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI DEVICE NOR SHALL THE RECEPTACLE BE SWITCHED.
21. PROVIDE AND INSTALL 208V 60A/3P DISCONNECT FOR LED MATRIX BOARD. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
38. DEVICE LOCATED ABOVE CEILING ADJACENT TO MECHANICAL/PLUMBING EQUIPMENT.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
101. PROVIDE CONNECTION TO INTERNALLY MOUNTED FOUNDATION SPONSOR ELEMENT. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL LW2.
108. PROVIDE CONNECTION TO INTERNALLY MOUNTED FOUNDATION SPONSOR SIGNAGE ADJACENT TO WEST VIDEO BOARD. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL LW2.
109. PROVIDE CONNECTION TO INTERNALLY MOUNTED FOUNDATION SPONSOR SIGNAGE ADJACENT TO WEST VIDEO BOARD. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL LW2.
149. REFER TO DETAIL A6E.006 FOR ADA PEDESTAL DETAIL.
153. PROVIDE 60A 208/120V, 3PH 5 WIRE FPN AND SLEEVE CONNECTION TO SPIDER CAMERA MOTOR. VERIFY EXACT LOCATION WITH ES DRAWINGS AND AERIAL CAMERA CONTRACTOR PRIOR TO INSTALL.
155. CONDENSING UNIT CONNECTS TO SPLIT SYSTEM ON FLOOR ABOVE.
160. CONDENSING UNIT CONNECTS TO SPLIT SYSTEM ON FLOOR BELOW.
162. LED CATWALK RECEPTACLE LOCATED ON INTERMEDIATE LEVEL AT 8'-6" ABOVE. REFER TO DRAWING AV-01. VERIFY EXACT LOCATION WITH AV CONTRACTOR PRIOR TO INSTALL.
166. PROVIDE AND INSTALL CONNECTION TO TV ALONG RAILING. REFER TO ARCHITECTURAL PLANS FOR EXACT MOUNTING LOCATION AND INSTALLATION DETAILS.



**PROFESSIONAL ENGINEER**  
Report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

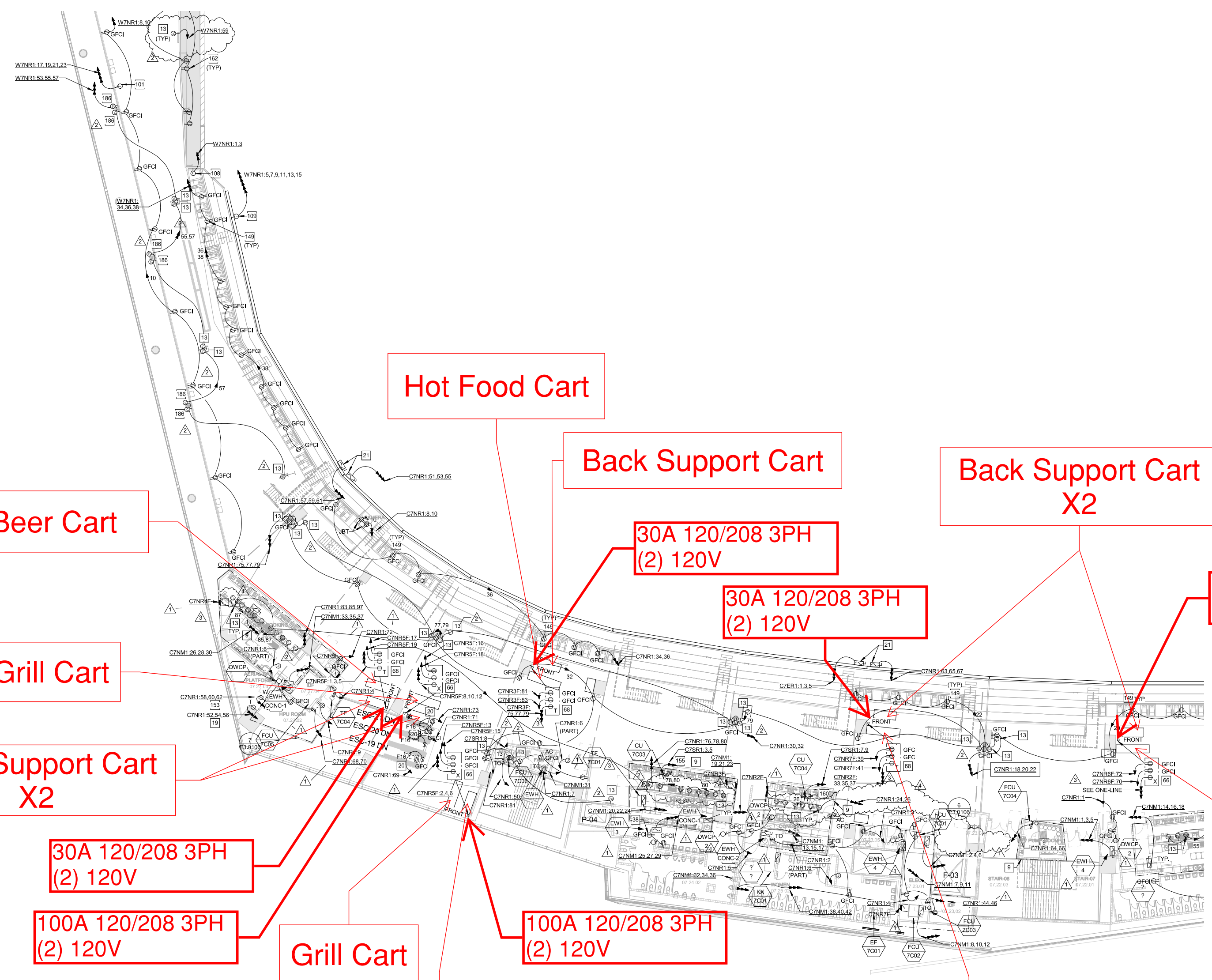
Project Name: **UPPER CONCOURSE ELECTRICAL**  
Date: 05/02/2014, Version: 05/04

**KEY PLAN**

10	11	12	1
9	14	13	2
8	15	14	3
7	6	5	4

**REVISION**

NO.	DESCRIPTION	DATE
1	CCD-060	06/27/2014
2	CCD-100	07/29/2014
3	AS-133	08/18/2014
4	CCD-100	01/07/2015



1 UPPER CONCOURSE ELECTRICAL - SECTOR 15  
1/16" = 1'-0"

HKS PROJECT NUMBER  
**16246.000**

DATE  
**MAY 2, 2014**

ISSUE  
**CCD-060**

SHEET TITLE  
**UPPER CONCOURSE ELECTRICAL POWER - SECTOR 15**

SHEET NO.  
**E2.0715**

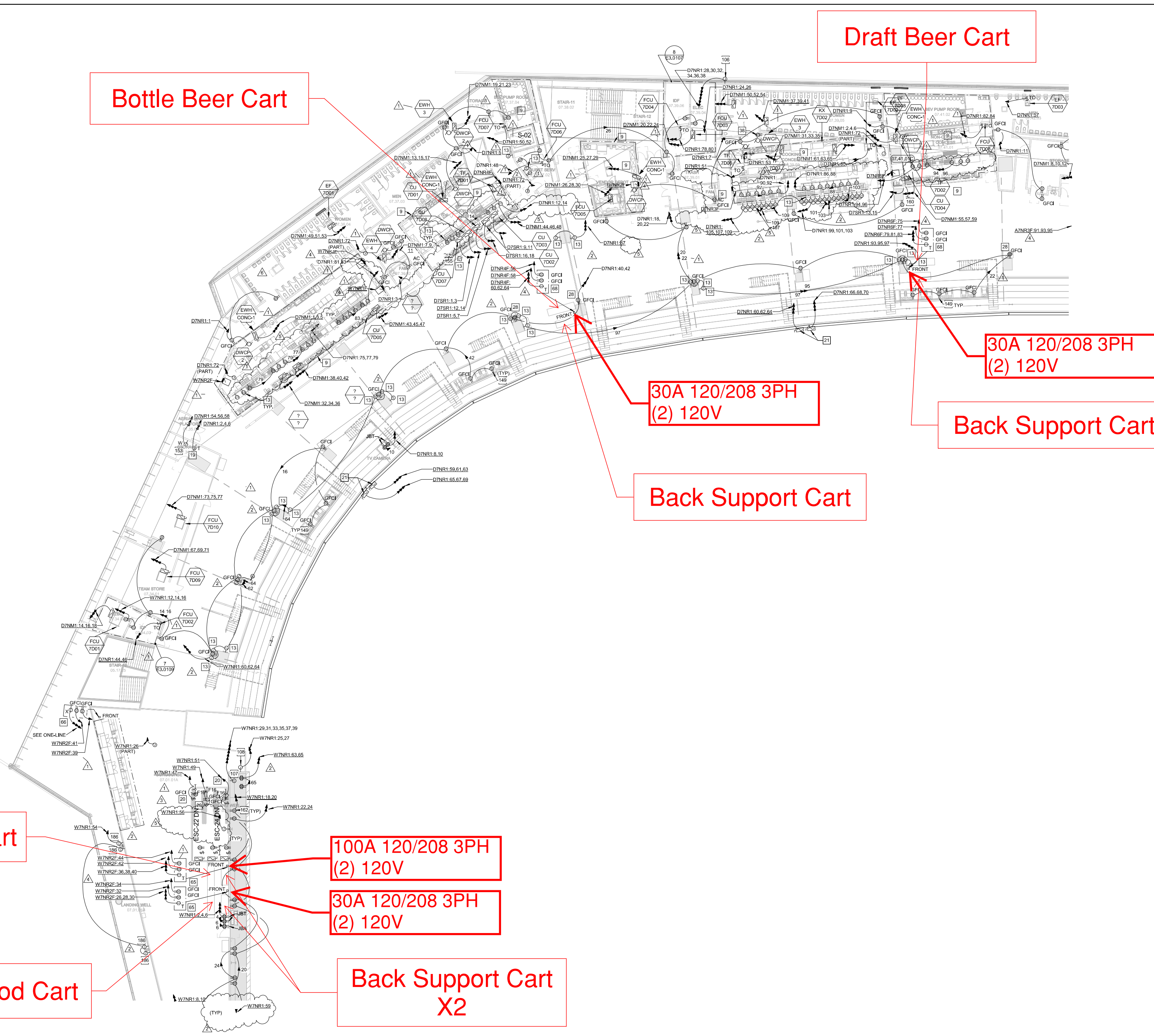
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**GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.
4. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
5. ALL 277V LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
6. ALL UNDERGROUND MEDIUM VOLTAGE CONDUITS SHALL BE 5" UNLESS OTHERWISE NOTED.

**KEYNOTES:**

9. REFERENCE E7 SERIES DRAWINGS FOR FOOD SERVICE SPACE DESIGNATION AND ENLARGED ELECTRICAL LAYOUTS.
13. REFER TO ARCHITECTURAL ELEVATIONS FOR TV POWER LOCATION.
19. PROVIDE 30A 208Y/120V 3 PHASE LOCKING NEMA L20-3P CONNECTION TO SKY CAM MOTOR. VERIFY EXACT LOCATION WITH ES DRAWINGS AND AERIAL CAMERA CONTRACTOR PRIOR TO INSTALL.
20. DEDICATED BRANCH CIRCUIT(S) FOR PIT LIGHTING FIXTURES SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI DEVICE NOR SHALL THE RECEPTACLE BE SWITCHED.
21. PROVIDE AND INSTALL 208V 60A/3P DISCONNECT FOR LED MATRIX BOARD. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
28. GFCI AND USB QUAD RECEPTACLE. REFER TO DETAIL G66.0003.
36. DEVICE LOCATED ABOVE CEILING ADJACENT TO MECHANICAL/PLUMBING EQUIPMENT.
65. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "B" ON SHEET E6.0007 FOR MOUNTING DETAILS.
66. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "C" ON SHEET E6.0007 FOR MOUNTING DETAILS.
68. RECEPTACLES TO BE USED FOR PORTABLE FOOD/BEVERAGE CART. REFER TO DETAIL "E" ON SHEET E6.0007 FOR MOUNTING DETAILS.
106. PROVIDE CONNECTION TO INTERNALLY LIT EXTERIOR NAMING RIGHTS LETTERS. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL L7D2.
107. PROVIDE CONNECTION TO INTERNALLY LIT NAMING RIGHTS LETTERS ON TOP OF WEST VIDEO BOARD. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL L7V2.
108. PROVIDE CONNECTION TO INTERNALLY LIT FOUNDINGS SPONSOR SIGNAGE ADJACENT TO WEST VIDEO BOARD. CIRCUITS TO BE FED FROM LIGHTING CONTROL PANEL L7V2.
149. REFER TO DETAIL A66.0006 FOR ADA PEDESTAL DETAIL.
153. PROVIDE 60A 208/120V 3PH 5 WIRE FIM AND SLEEVE CONNECTION TO SPIKER CAMERA MOTOR. VERIFY EXACT LOCATION WITH ES DRAWINGS AND AERIAL CAMERA CONTRACTOR PRIOR TO INSTALL.
155. CONDENSING UNIT CONNECTS TO SPLIT SYSTEM ON FLOOR ABOVE.
160. CONDENSING UNIT CONNECTS TO SPLIT SYSTEM ON FLOOR BELOW.
162. LED CATWALK RECEPTACLE LOCATED ON INTERMEDIATE LEVEL AT 8'40" ABOVE. REFER TO DRAWING AV.01. VERIFY EXACT LOCATION WITH AV CONTRACTOR PRIOR TO INSTALL.
166. PROVIDE AND INSTALL CONNECTION TO TV ALONG RAILING. REFER TO ARCHITECTURAL PLANS FOR EXACT MOUNTING LOCATION AND INSTALLATION DETAILS.



**OWNER**  
MINNESOTA SPORTS FACILITIES AUTHORITY  
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**OWNER**  
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**LANDSCAPE ARCHITECT**  
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**FOOD SERVICE**  
RCCA NEWMARK  
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**WAYFINDING**  
SELBERT PERKINS DESIGN  
ELEVATOR ADVISORY GROUP  
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**ADA CONSULTANT**  
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**WIND / SNOW CONSULTANT**  
ROWAN WILLIAMS, DAVIES, AND IRWIN, INC.  
880 WOODLAND RD., W. GUELPH, ON CANADA N1K 1B8

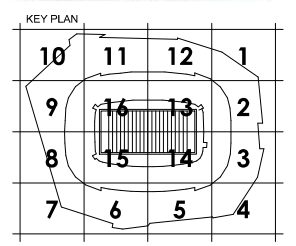
**BUILDING ENVELOPE CONSULTANT**  
THORNTON TOMASETTI - BUILDING SKIN PRACTICE  
330 N. WABASH AVE., SUITE 1500, CHICAGO, IL 60611

**FACADE ACCESS CONSULTANT**  
LORCH BATES INC.  
8089 LINCOLN ST., SUITE 105, LITTLETON, CO 80122



**PROFESSIONAL ENGINEER**  
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Gregory A. Gering  
Signature: [Signature]  
Date: 9/19/2014 License # 25884



REVISION NO.	DESCRIPTION	DATE
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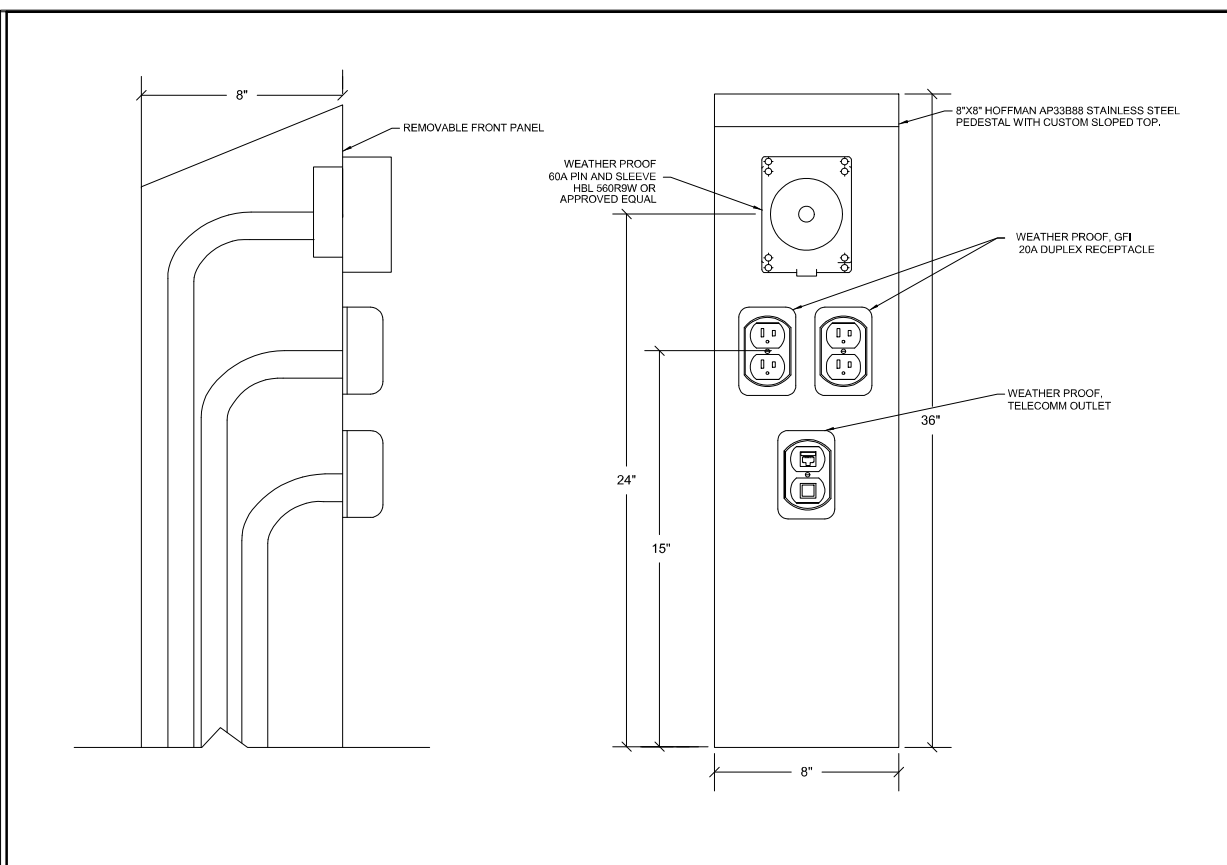
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DATE  
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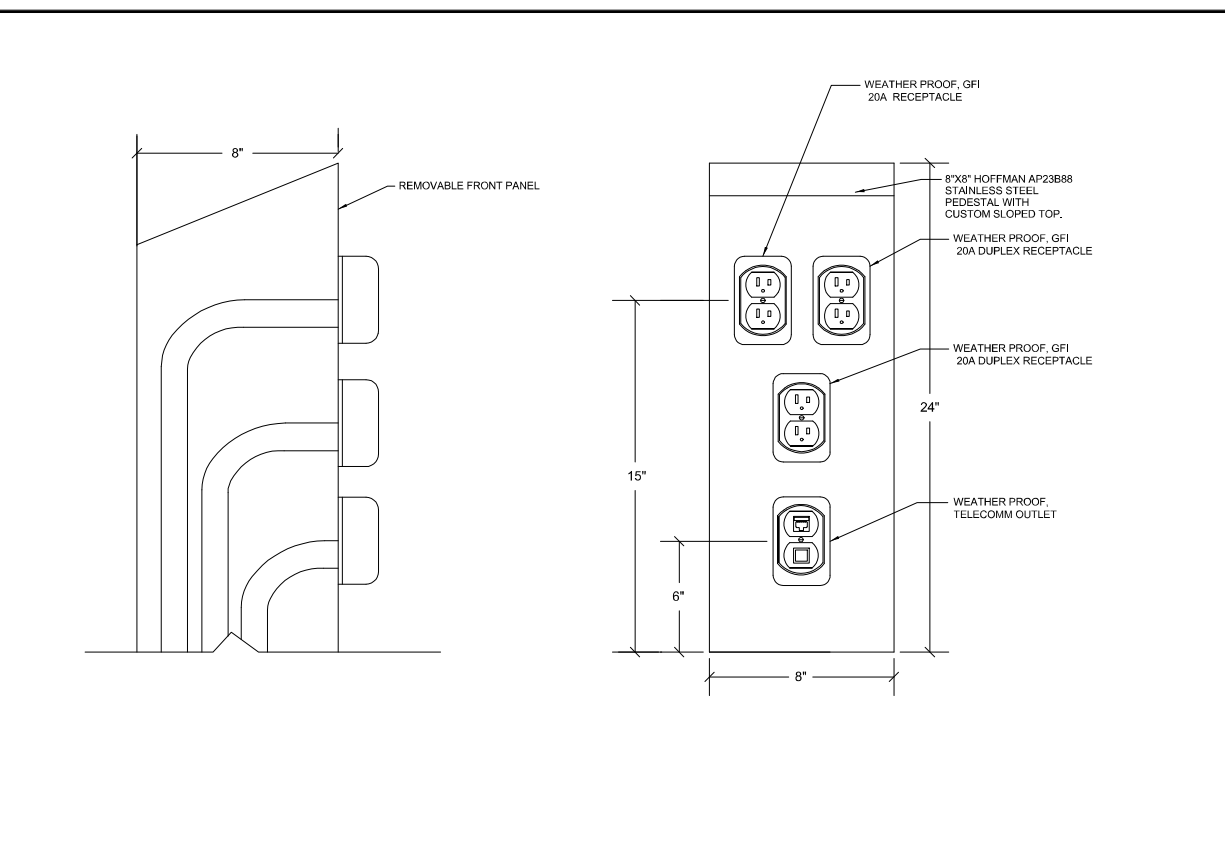
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SHEET TITLE  
**ELECTRICAL DETAILS**

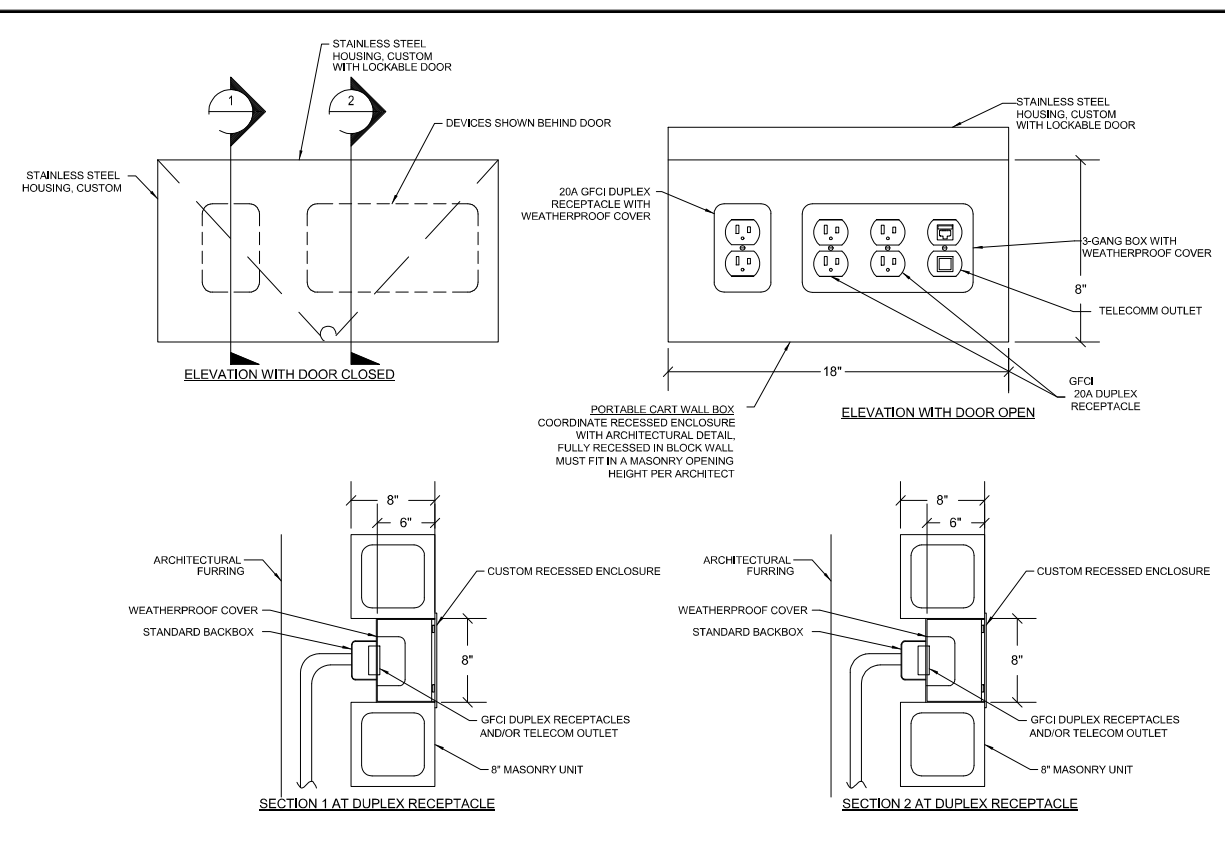
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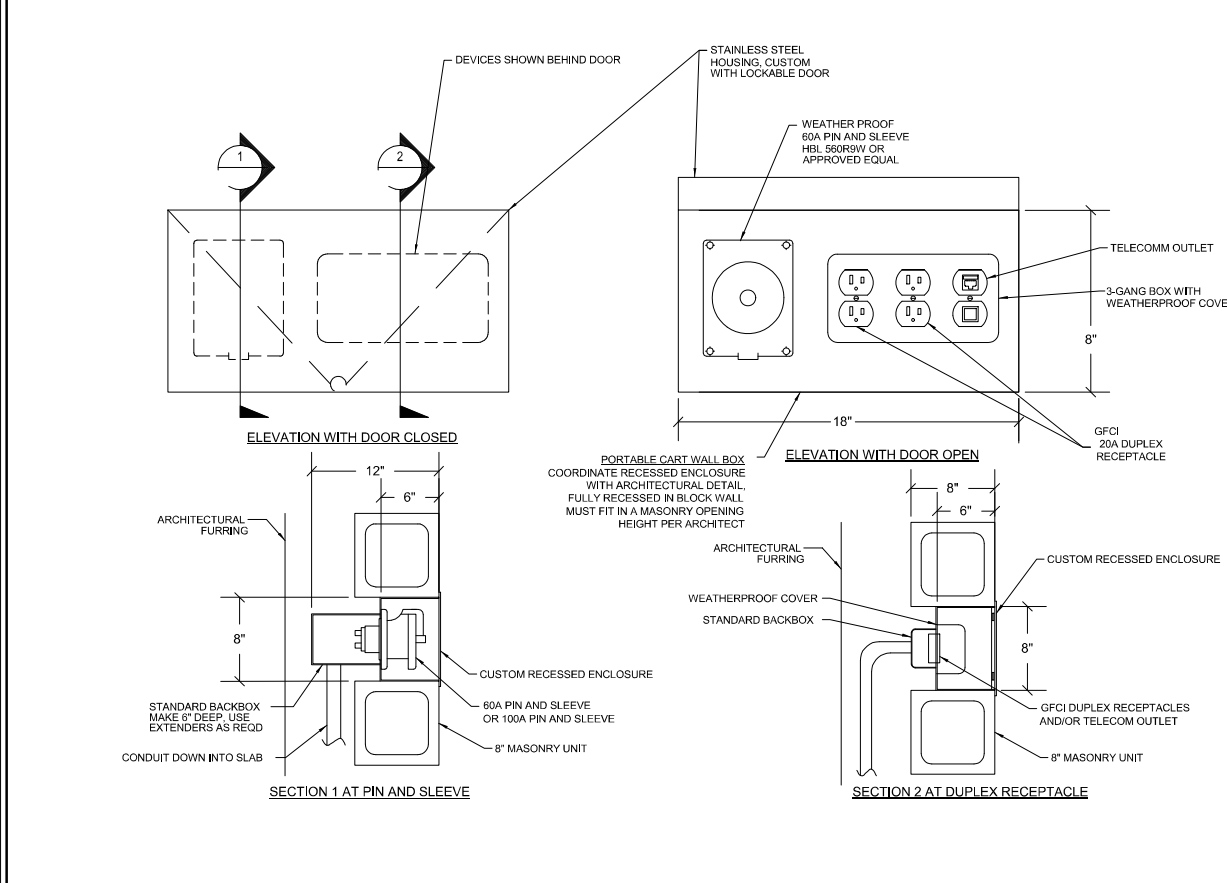
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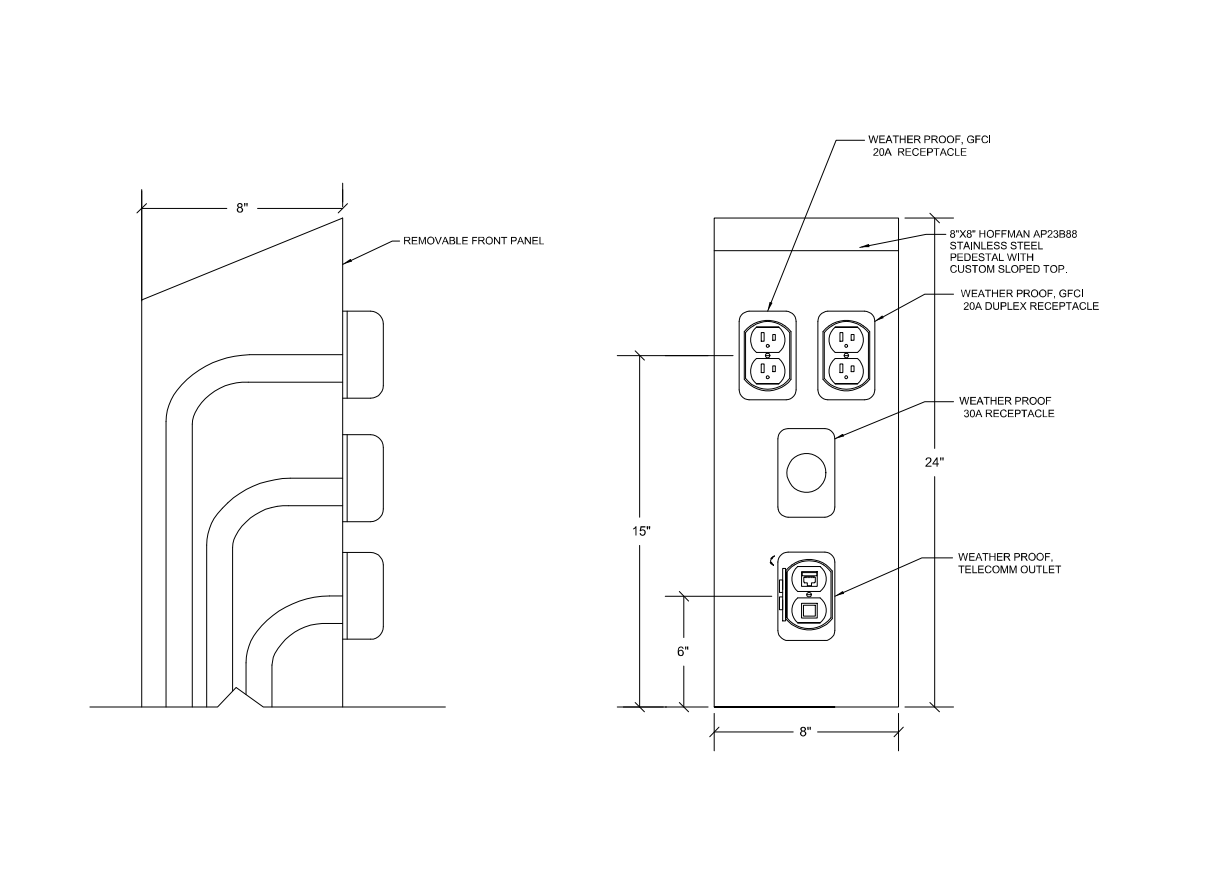
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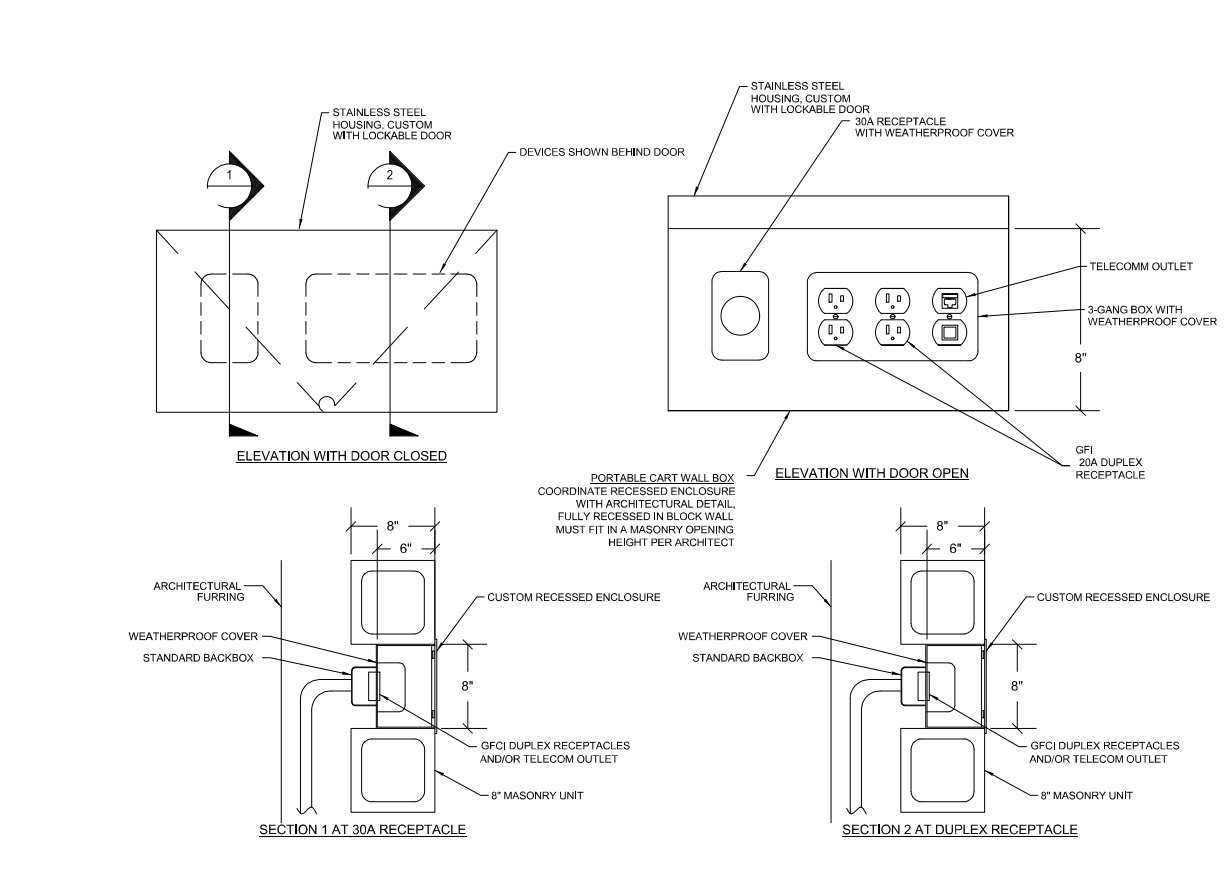
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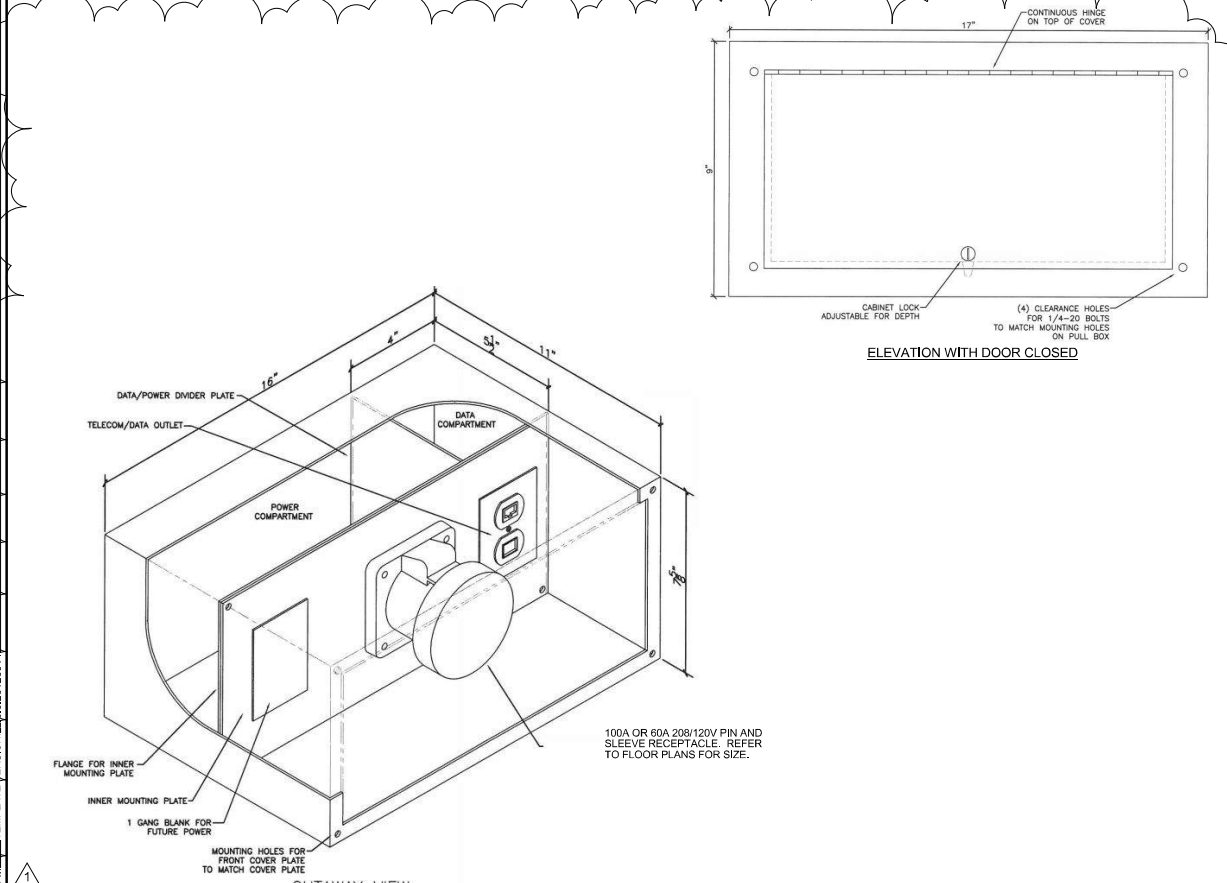
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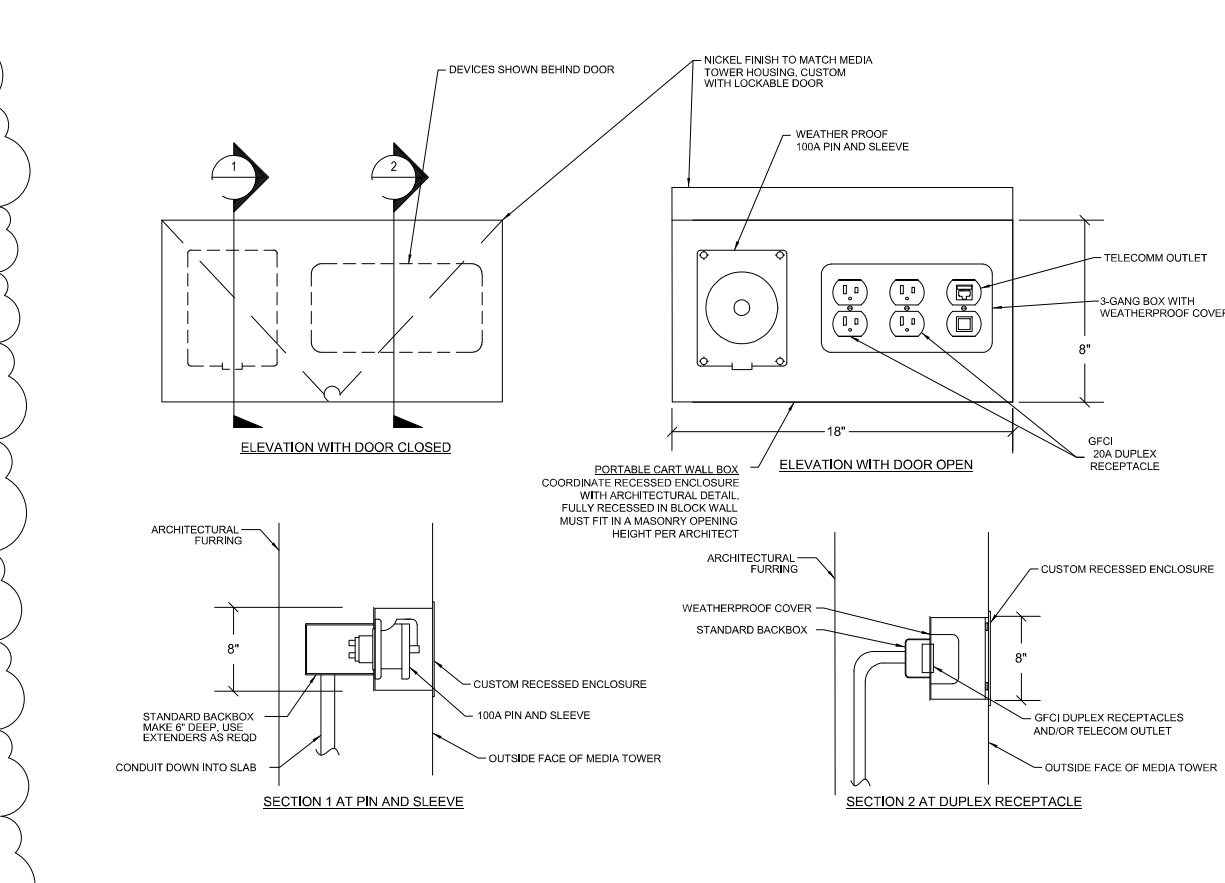
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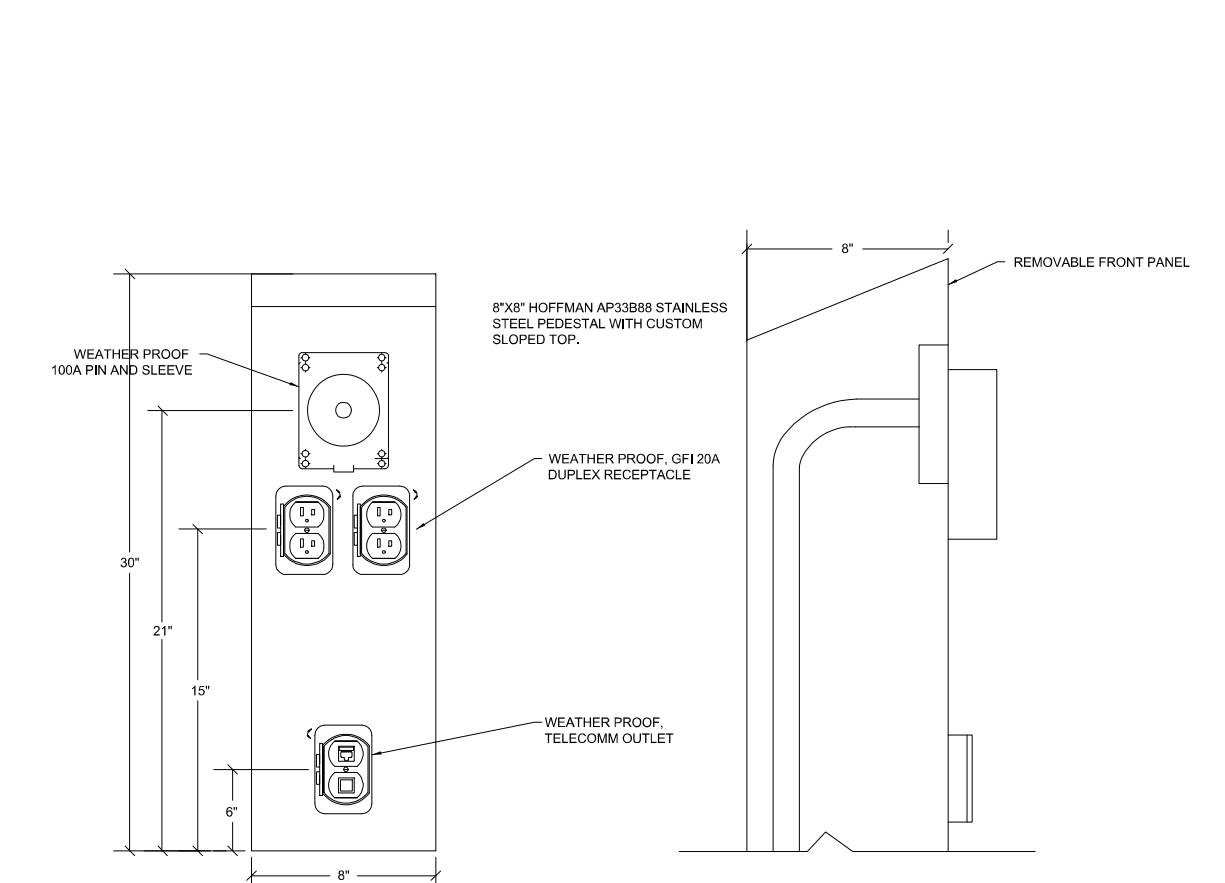
**B PORTABLE CONCESSION WALL DETAIL PC-B**  
NO SCALE



**J 100 OR 60A ACTION STATION WALL CONNECTION DETAIL**  
NO SCALE



**F MEDIA TOWER POWER CONNECTION**  
NO SCALE



**C PORTABLE CONCESSION TYPE PC-C**  
NO SCALE