SHAWNEE MISSION
SCHOOL DISTRICT

New Scoreboard Structure for:

SMSD District Stadium, North Location
7401 Johnson Dr.
Overland Park, KS. 66202

P R O J E C T T E A M

ARCHITECT:
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Kansas City, MO 64108
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ELECTRICAL ENGINEER:
Malone, Finkle, Eckhardt, and Collins, Inc.
7780 W. 119th St.
Overland Park, KS 66213
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ABBREVIATIONS

AC.	ACOUSTIC/ACOUSTICAL
ADD.	ADDENDUM
ADD'N.	ADDITION
ABC	AGGREGATE BASE COURSE
AFF	ABOVE FINISH FLOOR
AGG.	AGGREGATE
A/C	AIR CONDITIONING
AL.	ALUMINUM
ALT.	ALTERNATE
A.B.	ANCHOR BOLT
&	AND
ARCH.	ARCHITECT
ASP.	ASPHALT
@	AT
ACT	ACOUSTICAL CEILING TILE/PANEL
∠	ANGLE
BLKG.	BLOCKING
BSMT.	BASEMENT
BM.	BEAM
B.M.	BENCHMARK
BD.	BOARD
B.O.	BOTTOM OF
BLDG.	BUILDING
CABT.	CABINET
C.I.P.	CAST IN PLACE
C.B.	CATCH BASIN
C.G.	CEILING
CEM.	CEMENT/CEMENTITIOUS
CG.	CENTIGRAM
CM	CENTIMETER
CL.	CENTER LINE
CER.	CERAMIC
C.T.	CERAMIC TILE
CHAN.	CHANNEL
C	CHANNEL
CLR.	CLEAR
C.O.	CLEAN OUT
CLOS.	CLOSET
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
C.J.	CONTROL JOINT CONSTRUCTION JOINT
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORG.	CORRUGATED
CTR.	COUNTER
CTSK.	COUNTERSUNK
C.M.U.	CONCRETE MASONRY UNIT
D.P.	DAMP PROOFING
DB.	DECIBEL
DIAG.	DIAGONAL
DIAM.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DWL.	DOWEL
DN.	DOWN
D.S.	DOWNSPOUT
DWG.	DRAWING
EA.	EACH
ELEC	ELECTRIC
E.W.C.	ELECTRIC WATER COOLER
EL.	ELEVATION
ELEV.	ELEVATOR
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXH.	EXHAUST
EXPAN.	EXPANSION
E.J.	EXPANSION JOINT
EXIST.	EXISTING
EXT.	EXTERIOR
FT.	FEET / FOOT
FIN.	FINISH
FIXT.	FIXTURE
FL.	FLASHING
FLR.	FLOOR
F.D.	FLOOR DRAIN
FLOR.	FLUORESCENT
FTG.	FOOTING
FND.	FOUNDATION
FR.	FRAME
F.H.C.	FIRE HOSE CAB.
FV.	FIELD VERIFY
GA.	GAUGE
GL.	GLASS / GLAZING
GD.	GRADE
G.	GRAM
GRL.	GRILLE
GRD.	GRID
GND.	GROUND
G.S.	GALVANIZED STEEL
GYP.	GYPSUM
GWB/G.B.	GYPSUM BOARD
H.R.	HAND RAIL
HDN.	HARDENER
HDW.	HARDWARE
HDWD.	HARDWOOD
HTR.	HEATER
HT.	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIB
H.W.	HOT WATER
IN.	INCH / INCHES
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR
JT.	JOINT
JST.	JOIST
K.P.	KICK PLATE
LAM.	LAMINATED
LB.	POUND
LDG.	LANDING
LTH.	LATH
LAV.	LAVATORY
LG.	LENGTH
LOC.	LOCATION
LT.	LIGHT
L.W.C.	LIGHT WEIGHT CONCRETE
LVR.	LOUVER
LOC.	LOCATION
M.O.	MASONRY OPENING
MAT'L.	MATERIAL
MFR.	MANUFACTURER
MB.	MARKER BOARD
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
M.L.	METAL LATH
M.	METER
MIN.	MINIMUM
MLDG.	MOLDING
MULL.	MULLION
N.G.	NATURAL GRADE
NOM.	NOMINAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. / #	NUMBER
OBS.	OBSCURE
O.C.	ON CENTER
OPN'G.	OPENING
O.A.	OVERALL
O.D.	OUTSIDE DIAMETER
O.F.S.	OVERFLOW SCUPPER
O.F.D.	OVERFLOW DRAIN
O.H.D.	OVERHEAD DOOR
PTD.	PAINTED
PG.	PAGE
P.LAM.	PLASTIC LAMINATE
PR.	PAIR
PNL.	PANEL
PTN.	PARTITION
d	PENNY
PL	PLATE
PLBG.	PLUMBING
PLYWD.	PLYWOOD
PT.	POINT
P.S.I.	POUNDS PER SQ. IN.
P.S.F.	POUNDS PER SQ. FT.
P.C.	PRECAST
P.L.	PROPERTY LINE
R.	RISER, RISERS
RAD.	RADIUS
R.D.	ROOF DRAIN
RB.	RESILIENT BASE
RE.	REFER TO
REG.	REGISTER
REQ'D.	REQUIRED
REV.	REVISION
RFG.	ROOFING
RGH.	ROUGH
RM.	ROOM
RND.	ROUND
R.O.	ROUGH OPENING
SCHED.	SCHEDULE
S.C.	SEALED CONCRETE
SCR.	SCREW
SECT.	SECTION
SEL.	SELECT
SHG.	SHEATHING
SHT.	SHEET
SDG.	SIDING
SIM.	SIMILAR
SLDG.	SLIDING
SM.	SMOOTH
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.	STAINED
STD.	STANDARD
S.S. / ST.STL.	STAINLESS STEEL
STRUC.	STRUCTURE
SUSP.	SUSPENDED
SW.BD.	SWITCHBOARD
SYS.	SYSTEM
T.	TREAD
T.C.	TOP OF CURB
T.G.	TEMPERED GLASS
T.O.	TOP OF
T.S.D.	TOP OF STEEL DECK
T.W.	TEACHERS WARDROBE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.	VENT
VERT.	VERTICAL
V.G.	VERTICAL GRAIN
VEST.	VESTIBULE
V.C.T.	VINYL COMPOSITION TILE
VCP	VITREOUS CLAY PIPE
W.W.M.	WELDED WIRE MESH
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.F.	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD.	WOOD
WDW.	WINDOW
W.W.	WINDOW WALL

PROJECT INFORMATION

OWNER:
Shawnee Mission School District
8200 W. 71st St.
Shawnee Mission KS 66204
PHONE 913.993.3000

PROJECT DATA

WORK SHALL BE ON THE EXTERIOR GROUNDS OF:

SMSD DISTRICT STADIUM, NORTH LOCATION
7401 JOHNSON DR.
OVERLAND PARK, KS 66202

WORK INCLUDES:

SELECTIVE SITE DEMOLITION (REMOVAL OF EXISTING SCOREBOARD)
FABRICATION AND ERECTION OF NEW SCOREBOARD STRUCTURE
INSTALLATION OF NEW SCOREBOARD
ELECTRICAL AND FIBER OPTIC LINE TO NEW SCOREBOARD

BUILDING CODE:

2012 INTERNATIONAL BUILDING CODE

(CONTRACTOR SHALL VERIFY APPLICABLE CURRENT CODES IN EFFECT WITH EACH MUNICIPALITY HAVING JURISDICTION AND POSSESS A JOHNSON CO. CONTRACTORS LICENSE)

SYMBOLS LEGEND

- DETAIL REFERENCE - DETAIL NO. (TOP), SHEET NO. (BOTTOM)
- SECTION NUMBER

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
3. THIS PROJECT INVOLVES CLEARANCES TO ADJOINING EXISTING STRUCTURES AND GROUNDS. THE CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
4. DO NOT SCALE DRAWINGS.
5. THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
6. TYPICAL DIMENSIONS ARE TO FACE OF CURB, ETC., OR TO COLUMN CENTERLINE. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AND REMOVAL OF DEBRIS.

SHEET INDEX

Michael Glen Kautz -Architect
License - Kansas #2744

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State Certificate of Authority Number:
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Kansas # E-1186
Phone Number (913) 322-1400

SHAWNEE MISSION
SCHOOL DISTRICT

New Scoreboard Structure for:
SMSD District Stadium, North Location
7401 Johnson Drive
Overland Park, KS. 66202

Date	01/23/18
Job Number	3-17582
Drawn By	
Checked By	

Revisions

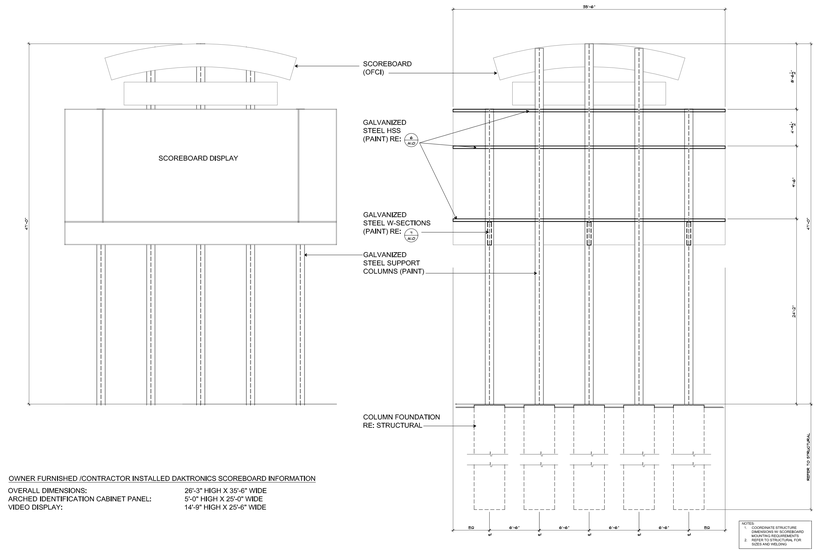
Number	Date	Description

A0.0

Cover Sheet

NORTH

1 SITE AERIAL VIEW
NOT TO SCALE



OWNER FURNISHED /CONTRACTOR INSTALLED DAKTRONICS SCOREBOARD INFORMATION

OVERALL DIMENSIONS:	26'-3" HIGH X 35'-6" WIDE
ARCHED IDENTIFICATION CABINET PANEL:	5'-0" HIGH X 25'-0" WIDE
VIDEO DISPLAY:	14'-9" HIGH X 25'-6" WIDE

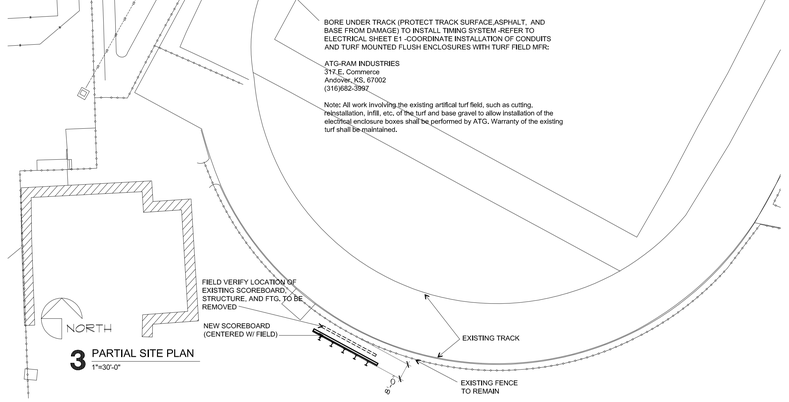
5 FRONT ELEVATION -SCOREBOARD
1/4"=1'-0"

8 BACK ELEVATION -SCOREBOARD
1/4"=1'-0"

4 FLOOR PLAN VIEW -SCOREBOARD
1/4"=1'-0"

6 DETAIL
3/4"=1'-0"

7 DETAIL
3/4"=1'-0"



3 PARTIAL SITE PLAN
1"=30'-0"

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING SITE CONDITIONS, UTILITY LOCATIONS AND CLEARANCES PRIOR TO CONSTRUCTION
2. WHERE REQUIRED BY CONDUIT ROUTING (SEE ELECTRICAL), SAWCUT AND REPLACE ANY CONCRETE OR ASPHALT PAVING WITH MATCHING PAVING.
3. DO NOT ALLOW EQUIPMENT TO BE ON THE EXISTING TRACK -ALL DAMAGES TO EXISTING SURFACES CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED TO NEW CONDITION MATCHING THE ADJACENT AREAS BY THE CONTRACTOR.
4. THE VIDEO /SCOREBOARD ITSELF IS OWNER FURNISHED AND CONTRACTOR INSTALLED (OFCI).
5. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION AND FRAMING L DETAILS.
6. COORDINATE FRAMING CONFIGURATION AND ERECTION WITH REQUIREMENTS OF THE SCOREBOARD MANUFACTURER.
7. PROVIDE ALL (CORROSION RESISTANT) ACCESSORY MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSTALLATION THAT IS NOT OTHERWISE SUPPLIED BY THE SCOREBOARD MANUFACTURER.
8. REFER TO ELECTRICAL DRAWINGS FOR POWER ROUTING, DATA, AND COMPONENTS -COORDINATE HOOK-UP OF THE SCOREBOARD WITH THE MANUFACTURER.
9. COORDINATE ACCESS, STAGING, AND MATERIAL STORAGE AREAS WITH THE OWNER.
10. EXISTING SCOREBOARD AND STRUCTURE SHALL BE REMOVED BY THE CONTRACTOR -DISPOSE OR SALVAGE SCOREBOARD AS DIRECTED BY THE OWNER.
11. ALL OTHER DEMOLITION DEBRIS OR ITEMS THAT THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED AND DISPOSED OF OFF SITE IN ACCORDANCE WITH FEDERAL /STATE /LOCAL LAWS.
12. GRASS AREAS DISTURBED BY CONSTRUCTION ACCESS OR THE ACTUAL CONSTRUCTION OPERATIONS SHALL BE FINISHED GRADED AND REPLACED WITH LIKE SOD.

2 PROJECT LOCATION
NOT TO SCALE

MICHAEL GLEN KAUTZ
NUMBER 2744
KANSAS
PROFESSIONAL ARCHITECT
1.23.18

Michael Glen Kautz -Architect
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A1.1

NORTH STADIUM SCOREBOARD

GENERAL NOTES - STRUCTURAL

I. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.

2. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.

3. All design and construction work for this project shall conform to the requirements of the 2012 International Building Code, as amended by the City of Overland Park, KS.

4. These drawings are for this specific project and no other use is authorized.

5. Structural Design Load Criteria:
   A. Snow= Pg= 20psf, Pf=14psf;Is = 1.0
      Ce=1.0, Ct=1.0, Drift per ASCE/SEI 7-10
   B. Lateral Loads:
      1.) Wind V=120 mph, Exposure C
      Occupancy [Risk] Category III, Iw=1.0
      SDp1=+/-0.18
      2.) Seismic: Ss = 0.095, S1 = 0.064
      Occupancy [Risk] Category III, Ie=1.0,
      Site Classification C; SDs=0.085; Sd1=0.064
      Seismic Design Category B
   C. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 2012 International Building Code.

6. Concrete:
   A. All concrete for piers shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement, and not over 4 inches of slump.
   B. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
   C. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash provided the total minimum cementitious content is not reduced.
   D. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
   E. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
   F. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
   G. No aluminum items shall be embedded in any concrete.

7. Reinforcing Steel:
   A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A1064.
   B. Clear coverage of concrete over reinforcing steel shall be as follows:
      Concrete placed against earth 3"
      Formed concrete against earth 2"
   All coverage shall be nominal bar diameter minimum.
   C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
   D. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
   E. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

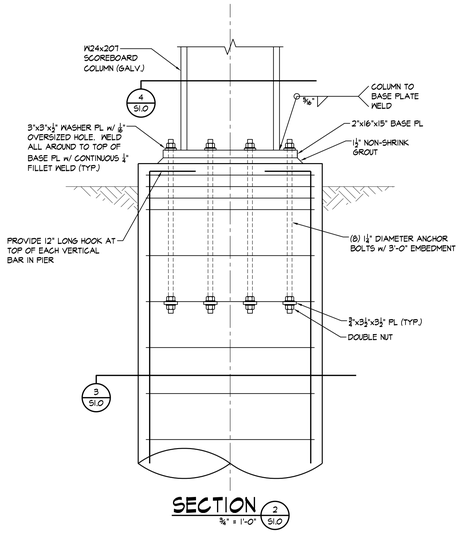
8. Structural Steel:
   A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
   B. All welding shall conform to the recommendations of the AWS.
   C. All exterior steel and connections shall be hot-dip galvanized.
   D. All anchor bolts shall be 1 1/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. Washers shall be welded all around to the column base plate with 3/16th Fillet weld.
   E. Allow 1/2 ton of miscellaneous structural steel to be used as directed in the field for special conditions by the structural engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included.

9. Foundations:
   A. The soil investigation was prepared by Kan Valley Engineering. The report number is GTG4494 and their telephone number is (913) 814-5150.
   B. Structural foundations consist of a network of straight shaft drilled piers (caissons) established on limestone capable of safely supporting 10,000 psf end bearing. Each pier hole shall be probed and observed by the project soils engineer for suitable bearing material.
   C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
   D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
   E. Do not place concrete on frozen ground.

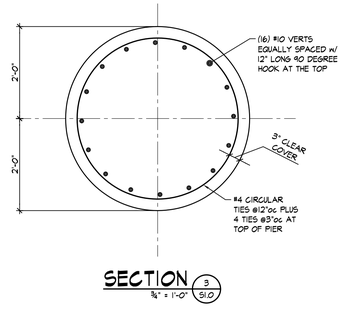
10. Shop Drawing Review:
   A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
   B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
      1) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
      2) Review and approve each submission.
      3) Stamp each submission as approved.
   C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
   D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
      1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
      2) Reinforcing steel shop drawings including erection drawings and bending details. Bar lists will not be reviewed for correct quantities.
      3) Structural steel shop drawings including erection drawings and piece details. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
      4) Miscellaneous anchors shown on the structural drawings.
   E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

II. Structural Special Inspection:
   A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 20XX International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
   B. Special inspections shall be required for the items indicated below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
      1) Placement of Concrete
      2) Testing of Concrete
      3) Bolts in Concrete
      4) Placement of Reinforcing Steel
      5) Verification of Soil Bearing Capacities
      6) Drilled Piers
      7) Structural Welding
      8) Steel Frame Inspection
      9) Shop Fabrication of Structural Steel
   C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
   D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
   E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

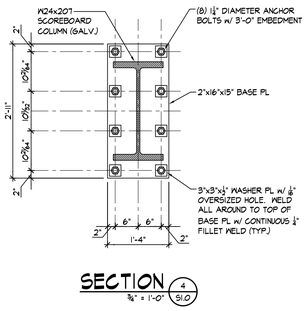
12. Copyright and Disclaimer:
   A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
   B. I, Christopher W. Boos, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



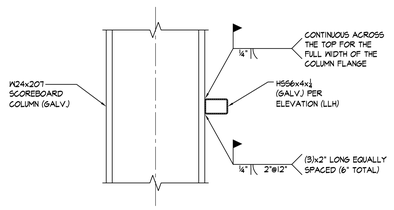
SECTION 2 S1.0
¾" = 1'-0"



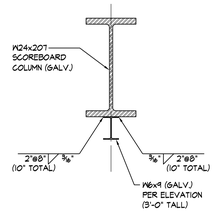
SECTION 3 S1.0
¾" = 1'-0"



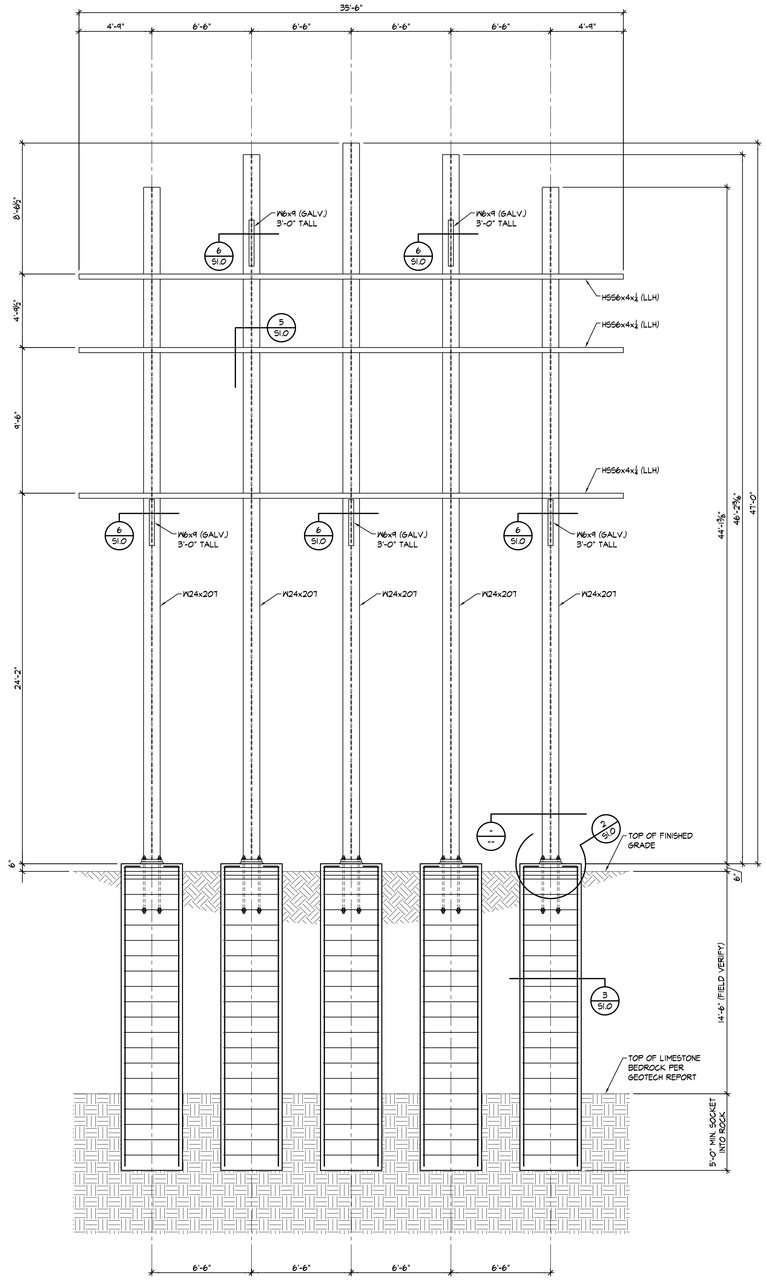
SECTION 4 S1.0
¾" = 1'-0"



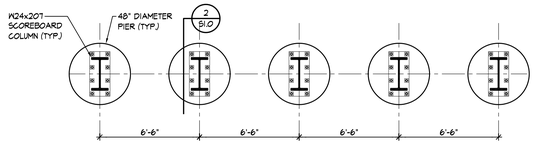
SECTION 5 S1.0
¾" = 1'-0"



SECTION 6 S1.0
¾" = 1'-0"



ELEVATION 1 S1.0
½" = 1'-0"



SCOREBOARD FOUNDATION PLAN
⅛" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON THIS SHEET.
2. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS & SCOREBOARD DRAWINGS.
3. FIELD VERIFY EXISTING CONDITIONS, INCLUDING DIMENSIONS & ELEVATIONS.
4. ALL STEEL SHALL BE HOT-DIP GALVANIZED. REPAIR GALV. COATING AT ALL FIELD-WELDED CONNECTIONS AFTER WELDING.

CHRISTOPHER W. BOOS LICENSED 17210 STATE OF KANSAS PROFESSIONAL ENGINEER
1-23-18

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SHAWNEE MISSION SCHOOL DISTRICT

SMSD North District Stadium- Scoreboard
7401 Johnson Drive
Overland Park, KS. 66202

Date	1/23/18
Job Number	3-17582
Drawn By	
Checked By	

Revisions

Number	Date	Description

S1.0

SCOREBOARD STRUCTURE

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL "LB2" IS THE MAIN DISTRIBUTION PANEL FOR SCOREBOARD. COORDINATE ALL LOADS/CIRCUITS FROM MAIN DISTRIBUTION PANEL TO SCOREBOARD WITH SCOREBOARD PROVIDER.

PANELBOARD DESIGNATION: "LB2"

MANUFACTURER: SQUARE D
TYPE: NQ
ENCLOSURE/SPACES: NEMA 3R / --
MOUNTING/MAX. DIMENSION: RECESSED / 20"Wx5.75"D
MIN. AIC RATING (AMPS): 10000
VOLTAGE: 120/208
PHASE: 3
WIRE: 4
MAIN RATING (AMPS): 100
MAIN TYPE: MAIN BREAKER

CIRC NO.	LOAD DESCRIPTION	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER ACC.	H	N	G	C	LOAD (VA)	PHASE LOADS (VA) A	B	C	LOAD (VA)	H	N	G	C	CIRCUIT BREAKER ACC.	CIRCUIT BREAKER AMPS	LOAD DESCRIPTION	CIRC NO.
1	JB1_1	40		8	8	10	3/4"	6053	6353	////////	////////	300	12	12	12	3/4"		20	PS1_1	2
3	"	2						6906	////////	7098	////////	192	12	12	12	3/4"		20	DS1_1	4
5	JB1_2	30		10	10	10	3/4"	3000	////////	////////	3300	300	12	12	12	3/4"		20	PS1_2	6
7	AD1_1	20		12	12	12	3/4"	1200	1200	////////	////////	0	10	10	10	3/4"		30	SURGE SUPPRESSION	8
9	AD1_2	20		12	12	12	3/4"	1200	////////	1200	////////	0						3	"	10
11	AD1_3	20		12	12	12	3/4"	1900	////////	////////	1900	0						3	"	12
13	SPACE	20		12	12	12	3/4"	0	0	////////	////////	0	12	12	12	3/4"		20	SPACE	14
15	SPACE	20		12	12	12	3/4"	0	////////	0	////////	0	12	12	12	3/4"		20	SPACE	16
17	SPACE	20		12	12	12	3/4"	0	////////	////////	0	0	12	12	12	3/4"		20	SPACE	18
S1								0	0	////////	////////	0								S2
S2								0	////////	0	////////	0								S4
S3								0	////////	////////	0	0								S6

	A	B	C
CONNECTED SUBTOTAL (VA):	7553	8298	5200
*DIVERSIFIED COOLING TOTAL (VA):	7553	8298	5200
*DIVERSIFIED HEATING TOTAL (VA):	7553	8298	5200
PHASE LOADS (AMPS):	63	70	44

21050	TOTAL CONNECTED (VA)
COOLING	CONTROLLING LOAD
1.00	FUTURE FACTOR (INCLUDED)
70	CALCULATED PANEL SIZING AMPS

SURGE SUPPRESSION SUPPLIED BY SCOREBOARD PROVIDER INSTALLED BY CONTRACTOR.

CIRCUIT BREAKER ACC. ABBREVIATIONS:
GF – GROUND-FAULT CIRCUIT INTERRUPTER
AF – ARC-FAULT CIRCUIT INTERRUPTER
ST – SHUNT TRIP
HL-ON – HANDLE-LOCK ON DEVICE
HL-OFF – HANDLE-LOCK OFF DEVICE
EPD – EQUIPMENT PROTECTION DEVICE

(* DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.)

PANEL NOTES/ACCESSORIES:
1. COORDINATE CIRCUITING REQUIREMENTS WITH SCOREBOARD MANUFACTURER.
2.
3.

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANELBOARD DESIGNATION: "EXISTING LB1"

MANUFACTURER: SQUARE D
TYPE: NQ
ENCLOSURE/SPACES: NEMA 1 / --
MOUNTING/MAX. DIMENSION: SURFACE / 20"Wx5.75"D
MIN. AIC RATING (AMPS): 10000
VOLTAGE: 120/208
PHASE: 3
WIRE: 4
MAIN RATING (AMPS): 100
MAIN TYPE: MAIN BREAKER

CIRC NO.	LOAD DESCRIPTION	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER ACC.	LOAD (VA)	PHASE LOADS (VA) A	B	C	LOAD (VA)	CIRCUIT BREAKER ACC.	CIRCUIT BREAKER AMPS	LOAD DESCRIPTION	CIRC NO.
1	EXISTING – RP-1	15		500	1580	////////	////////	1080		20	EXISTING – L1.01 REC	2
3	EXISTING – EF-14 1/2 HP	15		1200	////////	2280	////////	1080		20	EXISTING – L1.02 REC	4
5	EXISTING – EF-15 1/2 HP	15		1200	////////	////////	2280	1080		20	EXISTING – L1.01, 1.04 REC	6
7	EXISTING – HV-1 CONTROL PANEL	20		1000	2080	////////	////////	1080		20	EXISTING – L1.05	8
9	EXISTING – HV-2 CONTROL PANEL	20		1000	////////	2080	////////	1080		20	EXISTING – L2.01, 3.01 REC	10
11	EXISTING – THERMOSTATS	20		1900	////////	////////	2980	1080		20	EXISTING – L3.02, 3.07 REC	12
13	EXISTING – RP-3	15		500	1580	////////	////////	1080		20	EXISTING – L3.01, 3.04 REC	14
15	EXISTING – EXTERIOR REC	20		1080	////////	2160	////////	1080		20	EXISTING – L3.05 REC	16
17	EXISTING – EXT. CABINET REC	20		1080	////////	////////	1580	500		20	EXISTING-ELEC DOOR HARDWARE	18
19	EXISTING – EXT. CABINET REC	20		1080	1580	////////	////////	500		20	EXISTING-TELEPHONE BACK BD.	20
21	EXISTING – 60A PIN/SLEEVE	60		2500	////////	3580	////////	1080		20	EXISTING – L1.06 REC	22
23	"	2		2500	////////	////////	3580	1080		20	EXISTING – L3.06 REC	24
25	EXISTING – AQUASTAT	20		250	750	////////	////////	500		20	EXISTING – PHOTOCELL-EXT LTG	26
27	SPARE	20		0	////////	0	////////	0		20	SPARE	28
29	SPACE	20		0	////////	////////	0	0		20	RECPT FINISH LINE-FENCE	30
31	SPACE	20		0	0	////////	////////	0		20	RECPT FINISH LINE-N SIDE	32
33	SPACE	20		0	////////	0	////////	0		20	RECPT FINISH LINE-S SIDE	34
35	SPACE	20		0	////////	////////	0	0		20	SPACE	36
37	SPACE	20		0	0	////////	////////	0		20	SPACE	38
39	SPACE	20		0	////////	0	////////	0		20	SPACE	40
41	SPACE	20		0	////////	////////	0	0		20	SPACE	42
S1				0	0	////////	////////	0				S2
S2				0	////////	0	////////	0				S4
S3				0	////////	////////	0	0				S6

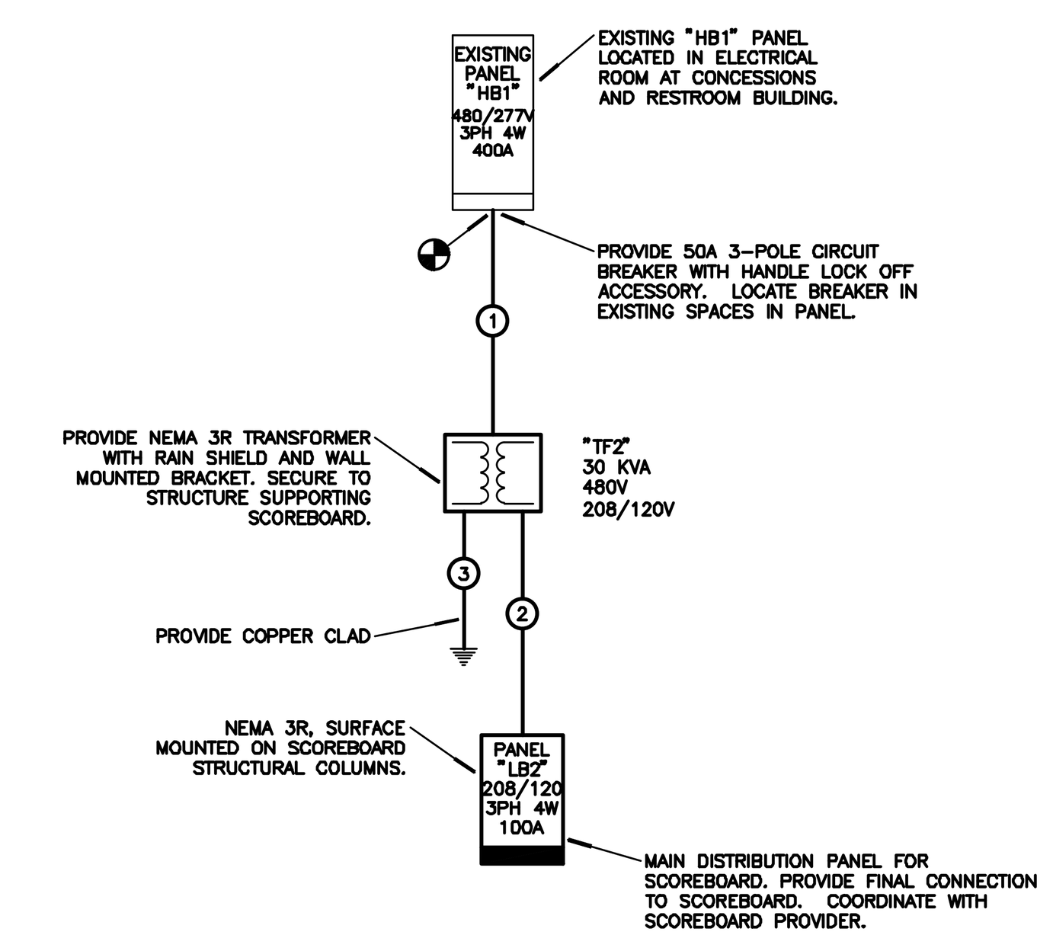
	A	B	C
CONNECTED SUBTOTAL (VA):	7570	10100	10420
*DIVERSIFIED COOLING TOTAL (VA):	7060	9419	9718
*DIVERSIFIED HEATING TOTAL (VA):	7060	9419	9718
PHASE LOADS (AMPS):	59	79	81

28090	TOTAL CONNECTED (VA)
COOLING	CONTROLLING LOAD
1.20	FUTURE FACTOR (INCLUDED)
97	CALCULATED PANEL SIZING AMPS

CIRCUIT BREAKER ACC. ABBREVIATIONS:
GF – GROUND-FAULT CIRCUIT INTERRUPTER
AF – ARC-FAULT CIRCUIT INTERRUPTER
ST – SHUNT TRIP
HLON – HANDLE-LOCK ON DEVICE
HLO – HANDLE-LOCK OFF DEVICE
EPD – EQUIPMENT PROTECTION DEVICE

(* DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.)

PANEL NOTES/ACCESSORIES:
1. COORDINATE CIRCUITING REQUIREMENTS WITH SCOREBOARD MANUFACTURER.
2.
3.



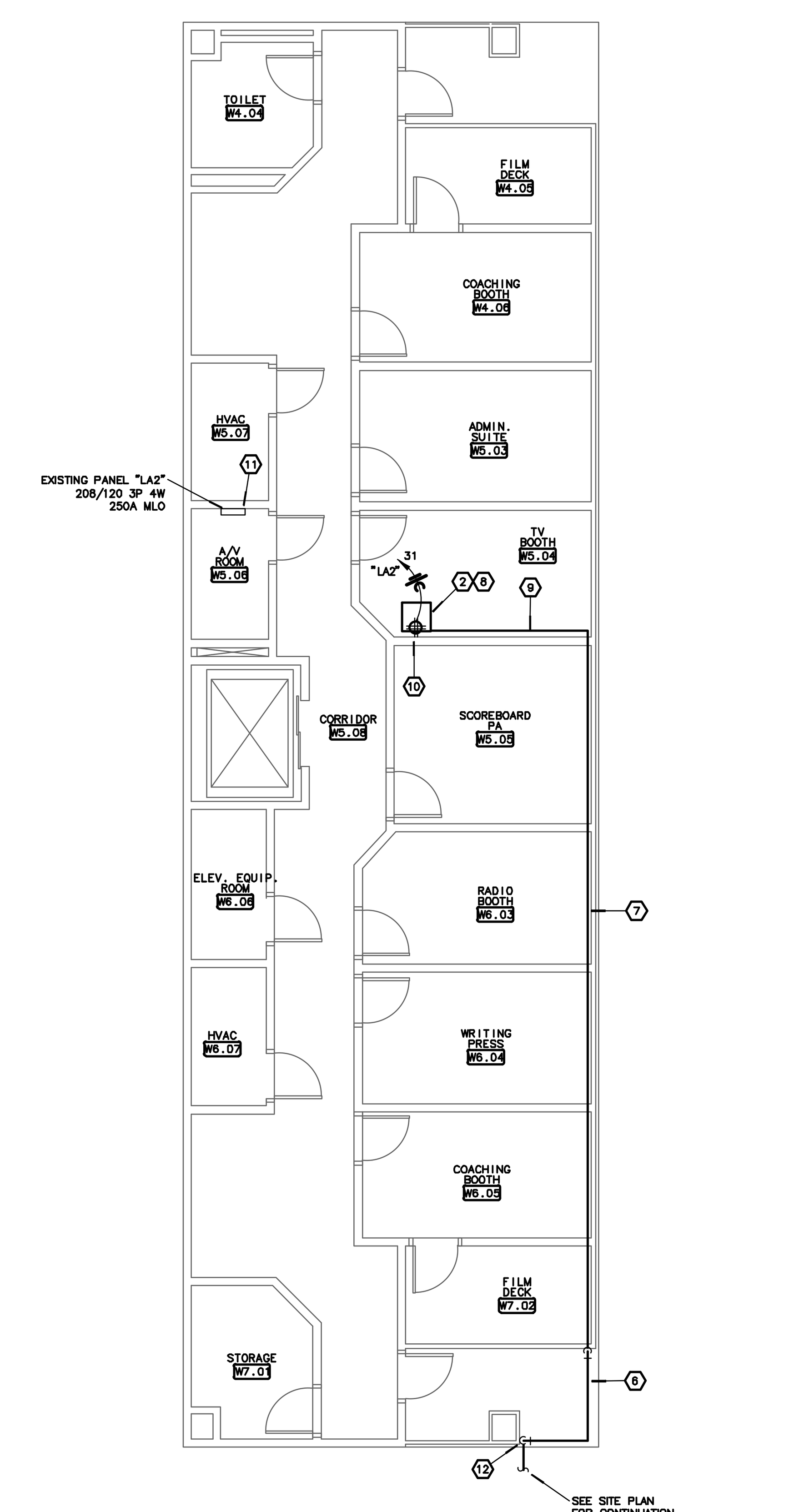
2 E1 ONE-LINE DIAGRAM
SCALE: NTS

ELECTRICAL SYMBOLS:

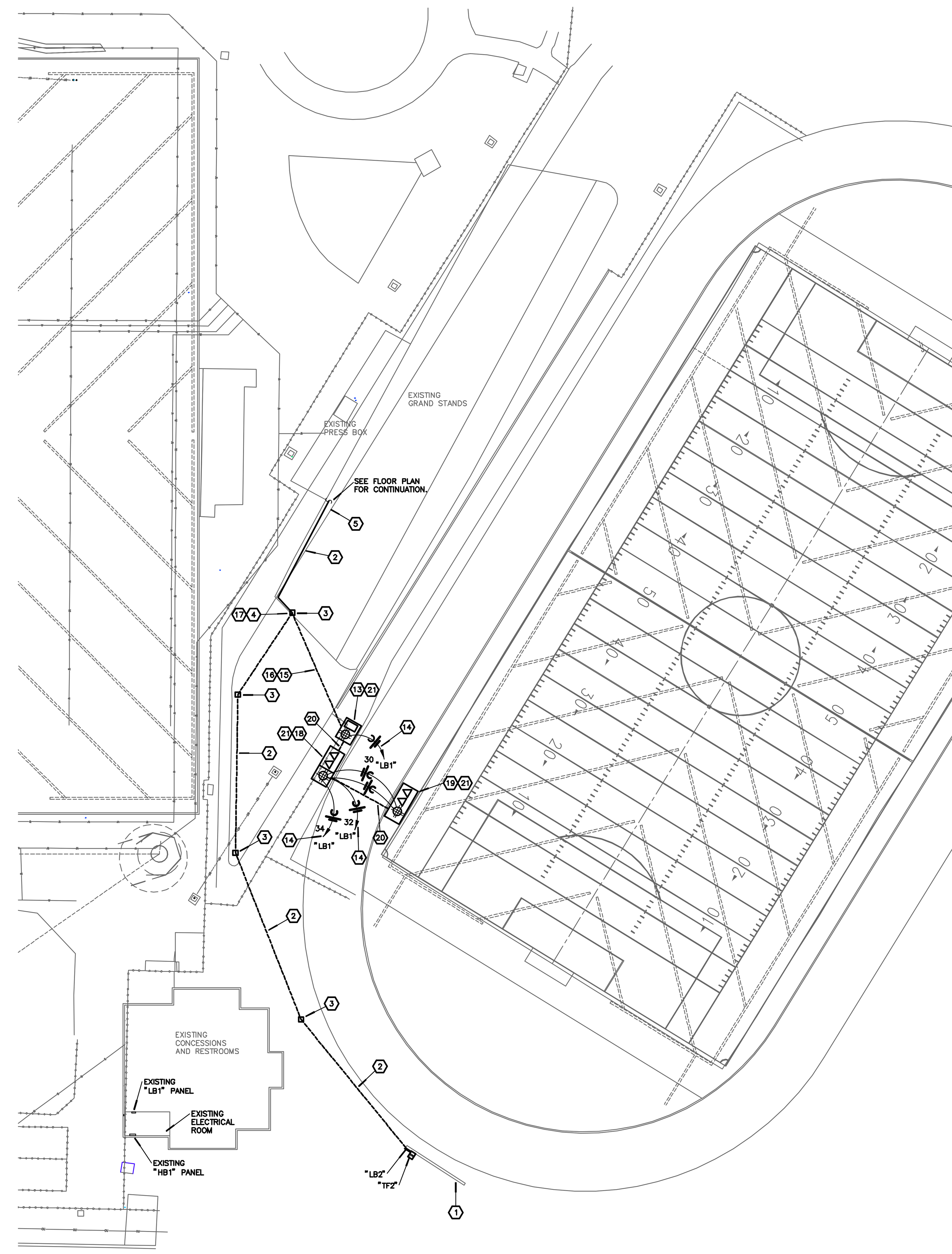
- DUPLEX 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- DOUBLE DUPLEX 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- HOME RUN – DIAGONAL LINES INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS
- BRANCH CIRCUIT OR FEEDER – SEE SCHEDULE FOR CONDUCTOR & CONDUIT QUANTITY & SIZE

PLAN NOTATIONS:

- NORTH – INDICATES DIRECTION OF NORTH
- 1/M1 – DETAIL REFERENCE – UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER.
- 1 – PLAN NOTE REFERENCE



3 E1 PRESSBOX FLOOR PLAN
SCALE: 1/8"=1'-0"
NORTH



1 E1 SITE PLAN
SCALE: 1"=40'
NORTH

NOTES:

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, WIRING, CONDUIT, ETC. ASSOCIATED WITH EXISTING SCOREBOARD.
2. PROVIDE 2" CONDUIT FROM PRESS BOX TO SCOREBOARD CONTROLLER FOR FIBER CONNECTIVITY FROM VIDEO RACK TO SCOREBOARD. THE SCOREBOARD EQUIPMENT SUPPLIER WILL FURNISH 1000' OF 6 STRAND FIBER OPTIC CABLE, IF ADDITIONAL LENGTH IS NECESSARY NOTIFY THE EQUIPMENT SUPPLIER. INSTALL THE CABLE IN ACCORDANCE WITH THE SCOREBOARD EQUIPMENT SUPPLIER.
3. PROVIDE PULL BOX, WATER TIGHT FLUSH WITH GRADE AT EACH TURN. PROVIDE ADDITIONAL PULL BOXES AS NEEDED FOR CONDUIT PATH.
4. 2" CONDUIT FROM PRESS BOX TO SCOREBOARD SHALL RISE UP AT GRAND STANDS AND BE ROUTED ALONG GRAND STAND'S GIRDER TO PRESS BOX.
5. 2" CONDUIT FROM PRESS BOX TO SCOREBOARD SHALL RISE UP AT PRESS BOX COLUMN AND ROUTE ALONG SOFFIT TO PRESS BOX.
6. 2" CONDUIT FROM PRESS BOX TO SCOREBOARD SHALL ROUTE ALONG SOFFIT DROP DOWN EXTERIOR WALL. CONDUIT SHALL PENETRATE EXTERIOR WALL JUST ABOVE EXISTING CABLE TRAY ROUTED BELOW COUNTERTOPS. ROUTE FIBER LINE IN CABLE TRAY TO VIDEO BOARD CONTROL RACK.
7. ROUTE FIBER IN EXISTING CABLE TRAY LOCATED UNDER COUNTERTOP.
8. THE COUNTER MOUNTED SCOREBOARD VIDEO RACK SHALL BE PROVIDED BY THE SCOREBOARD EQUIPMENT SUPPLIER. PROVIDE BOXES, RACEWAYS, ETC. AS REQUIRED FOR THE SCOREBOARD VIDEO SYSTEM. COORDINATE EXACT REQUIREMENTS WITH THE EQUIPMENT SUPPLIER. COORDINATE EXACT LOCATION OF VIDEO RACK.
9. PROVIDE CONDUIT AS REQUIRED TO ROUTE FIBER FROM VIDEO RACK TO CABLE TRAY.
10. PROVIDE DEDICATED RECEPTACLE FOR VIDEO RACK. COORDINATE EXACT LOCATION OF VIDEO RACK BEFORE ROUGH-IN OF DEDICATED RECEPTACLE.
11. PROVIDE 20A CIRCUIT BREAKER IN EXISTING PANEL "LA2" SPACE 31 FOR VIDEO RACK DEDICATED RECEPTACLE.
12. INSTALL CONDUIT DOWN VERTICALLY TIGHT TO STRUCTURE. PAINT ALL EXTERIOR EXPOSED CONDUIT COLOR TO MATCH ADJACENT FINISH.
13. PROVIDE NEMA 3R ENCLOSURE WITH PADLOCK HASP EATON B-LINE SERIES OR EQUAL TO HOUSE FIBER BUCKET ENCLOSURE AND DOUBLE DUPLEX RECEPTACLES IN WEATHER PROOF IN-USE ENCLOSURE. PROVIDE GFI DOUBLE DUPLEX RECEPTACLE IN ENCLOSURE. ENCLOSURE SHALL BE INSTALLED ACCESSIBLE ADJACENT TO FENCE. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN.
14. CIRCUIT RECEPTACLE TO EXISTING 120/208 VOLT "LB1" PANEL LOCATED IN ELECTRICAL ROOM OF EXISTING CONCESSIONS AND RESTROOMS BUILDING. PROVIDE 20A GFCI CIRCUIT BREAKER IN PANEL AND CIRCUIT USING #8 WIRE SIZE.
15. PROVIDE SINGLE MODE 6 STRAND CORNING ALTOS LITE LOOSE TUBE FIBER PART # 006EUC-T4101D20 FOR BACKBONE FROM PRESS BOX TO FINISH LINE ENCLOSURE. ONE LINE SHALL BE DIRECT LINE FROM FINISH LINE ENCLOSURE TO DAKTRONICS SCORE BOARD CONTROLLER IN PRESS BOX. COORDINATE EXACT LOCATION AND EXACT FIBER TERMINATION WITH SCOREBOARD INSTALLER. PROVIDE TERMINATION CONNECTIONS AS REQUIRED.
16. ROUTE SINGLE MODE 6 STRAND CORNING ALTOS LITE LOOSE TUBE FIBER IN 2" CONDUIT FROM FINISH LINE ENCLOSURE TO PRESS BOX.
17. ROUTE SINGLE MODE 6 STRAND CORNING ALTOS LITE LOOSE TUBE FIBER FOR FINISH LINE IN SAME CONDUIT AS FIBER FOR SCOREBOARD. PROVIDE INNERDUCT DIVIDERS AS REQUIRED.
18. PROVIDE IN-GROUND EXTERIOR GROUND BOX NEMA 4X RATED LEGRAND MODEL XB814 OR EQUAL. PROVIDE EXTERIOR BOX COVER ASSEMBLY 5-20R (TWO-CIRCUIT) XB814C520C2BK WITH PREWIRED TWO-CIRCUIT DOUBLE DUPLEX RECEPTACLE. IN CONNECTION PROVIDE EXTERIOR BOX COVER ASSEMBLY LOW VOLTAGE XB814CLVBK. PROVIDE BOXES WITH EXTERIOR IN-USE, LOCKABLE COVER. COORDINATE EXACT FINISH LINE LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN.
19. AT TURF LOCATION PROVIDE IN-GROUND EXTERIOR GROUND BOX NEMA 4X RATED LEGRAND MODEL XB814 OR EQUAL. PROVIDE EXTERIOR BOX COVER ASSEMBLY 5-20R (TWO-CIRCUIT) XB814C520C2BK WITH PREWIRED TWO-CIRCUIT DOUBLE DUPLEX RECEPTACLE. IN CONNECTION PROVIDE EXTERIOR BOX COVER ASSEMBLY LOW VOLTAGE XB814CLVBK. PROVIDE BOXES WITH EXTERIOR IN-USE, LOCKABLE COVER. OR PROVIDE SPROTSFIELD SPECIALTIES CBIT1815 WITH PEDESTAL MOUNTED DOUBLE DUPLEX RECEPTACLE AND (2) DATA OUTLETS. RECEPTACLES AND DATA OUTLETS INSTALLED IN BOX BELOW FINISH GRADE SHALL BE PROVIDED IN WEATHER PROOF IN-USE COVERS. COORDINATE INSTALLATION IN TURF WITH TURF MANUFACTURER AS TO NOT VOID ANY WARRANTIES. COORDINATE EXACT FINISH LINE LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN.
20. PROVIDE LEVITON EXTREME CAT 6A U/UTP CABLE OR EQUAL FROM SUPERIOR ESSEX OR BERK-TEK, IN 1.5" CONDUIT FROM FIBER CONVERTER TO DATA LOCATIONS AT EACH IN-GROUND ELECTRICAL BOX ON BOTH SIDES OF THE TRACK. PROVIDE A MINIMUM OF 2 ADDITIONAL FEET OF CABLE LENGTH AT EACH END.
21. COORDINATE LOCATION WITH OWNER AND SCOREBOARD INSTALLER. FINAL LENGTHS OF CONDUITS, FIBER, AND POWER SHALL BE BASED OFF OF FINAL LOCATION APPROVED BY OWNER.

GENERAL NOTES:

1. THE INFORMATION SHOWN ON THIS DRAWING IS TAKE FROM FIELD OBSERVATIONS. NO EXISTING DRAWINGS FOR THIS BUILDING ARE AVAILABLE. THE INFORMATION SHON ON THIS DRAWING SHOULD NOT BE CONSIDERED "AS-BUILT" CONDITIONS. THE CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY ACTUAL CONDITIONS PRIOR TO SUBMITTING THEIR BID.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY OF OVERLAND PARK, KANSAS.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
4. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
5. ALL WIRING SHALL BE IN CONDUIT AND SHALL BE CONCEALED.
6. PROVIDE COPPER CONDUCTORS FOR LISTED APPLICATIONS AS FOLLOWS:

   POWER CIRCUITS AND FEEDERS: TYPE THHN, 600 VOLT, 75 DEGREE C (194 DEGREES F) THERMOPLASTIC INSULATED BUILDING CONDUCTOR.

   UNDERGROUND POWER CIRCUITS AND FEEDERS: TYPE THHN/TWHN, 600 VOLT, 75 DEGREE C (167 DEGREES F) WET RATING AND 90 DEGREES C (194 DEGREES F) DRY RATED THERMOSETTING FILLED INSULATING CABLE.
7. CONDUIT CONNECTORS AND COUPLINGS SHALL BE COMPRESSION TYPE OR SET SCREW TYPE CONDUIT FITTINGS.
8. ALL POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
9. ALL RECEPTACLES SHALL BE AT 18" AFF UNLESS NOTED OTHERWISE.
10. DUPLEX RECEPTACLES SHALL BE HUBBELL MODEL 5352-WHI 20A, 125V, NEMA CONFIGURATION 5-20R WHITE DUPLEX RECEPTACLE. WEATHER PROOF RECEPTACLES SHALL BE GFI TYPE MOUNTED IN APPROPRIATE WEATHERPROOF BOX WITH LIFT COVERPLATE.
11. CONTRACTOR RESPONSIBLE FOR ALL PATCH AND REPAIR OF EXISTING SURFACES AS REQUIRED FOR INSTALLATION OF NEW DEVICES.
12. CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH EXISTING FURNITURE, EQUIPMENT, AND MILLWORK.
13. PROVIDE CONDUITS FOR LISTED APPLICATIONS AS FOLLOWS:

    EXTERIOR: ABOVE GRADE, EXTERIOR GALVANIZED RIGID STEEL.

    INTERIOR: ABOVE GRADE INTERIOR EMT

    BELOW GRADE: SCHEDULE 40 PVC.

    TRANSITIONS FROM BELOW GRADE TO ABOVE GRADE CONDUIT SHALL BE COMPLETED WITH A PVC COATED RIGID STEEL 90-DEGREE BEND.

    CONDUITS FOR FIBER OR OTHER LOW VOLTAGE COMMUNICATIONS CABLING SHALL UTILIZE LONG SWEEP 90 DEGREE BENDS.
14. TRANSFORMERS SHALL BE SQUARE D BY SCHNEIDER ELECTRIC – EX WATCHDOG MODEL, CONTINUOUS ALUMINUM WINDINGS, AND MAXIMUM OF 115 C RISE ABOVE 40 C AMBIENT TEMPERATURE. EXTERIOR APPLICATIONS PROVIDE NEMA 3R TRANSFORMER WITH RAIN SHIELD.
15. PANELBOARDS SHALL BE SQUARE D BY SCHNEIDER ELECTRIC, BUS SHALL BE 98 PERCENT CONDUCTIVITY TIN-PLATED ALUMINUM OR HARD-DRAWN COPPER. LOAD CENTERS ARE NOT ALLOWED. EXTERIOR APPLICATIONS PROVIDE NEMA 3R PANELBOARD.

BRANCH CIRCUIT & FEEDER SCHEDULE:

1. (3)-#4 AND (1)-#8 GROUND IN 1.25" CONDUIT.
2. (4)-#1 AND (1)-#8 GROUND IN 1.25" CONDUIT.
3. #6 GROUND IN 0.75" CONDUIT.

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April L. Halling
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SHAWNEE MISSION SCHOOL DISTRICT

SMSD North District Stadium- Scoreboard
7401 Johnson Drive
Overland Park, KS. 66202

Date	JANUARY 23, 2018
Job Number	4-14225.01
Drawn By	KEH
Checked By	ALH

Revisions
Number Date Description

ELECTRICAL PLAN

E1