Job No. 3916 June 18, 2020

ADDENDUM NUMBER TWO TO THE CONTRACT DOCUMENTS FOR CONSTRUCTION OF ORANGE BEACH RECREATION COMPLEX NEW BASEBALL/SOFTBALL FIELD RENOVATIONS AT ORANGE BEACH SPORTSPLEX CITY OF ORANGE BEACH

This addendum forms a part of the Contract Documents and modifies the Bid Documents dated May 4, 2020.

This Addendum consists of one (1) page Addendum, one (1) general documents, (1) specification & three (3) full-size sheets.

GENERAL

ITEM 01 BIDDER QUESTIONS

Please see attached Document

SPECIFICATIONS

ITEM 01 SECTION 133416.13 – GRANDSTANDS

1. **Replace note** Paragraph 1.04.A.5.1: "Welded Decking System to "Interlocking Deck System or Welded Deck System".

DRAWINGS

ITEM 01 SHEET LS001 – CODE STUDY

Reissue Sheet in its entirety.

- 1. Revised notes and code references.
 - a. Manual Fire Alarm System not required.
 - b. Egress Width of A-3 shown consistently as Non-Sprinkler building.
 - c. Egress Exit and Exit Access requirements for the IBC and ICC.
- 2. Added the ICC-300 to the applicable code list.

ITEM 02 SHEET E302 – PRESS BOX ELECTRICAL PLANS

Reissue Sheet in its entirety.

1. Add Notes 3 & 4 requirements to the Press Box Notes.

ITEM 03 SHEET E500 – AUDIO RISER DIAGRAM

Reissue Sheet in its entirety.

- 1. Revised Note 2 with updated equipment rack type.
- 2. Removed/Omitted Note 3

END OF ADDENDUM #2

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No.	Scope	Sheet or Spec	Question/Comment		Architect / Owner Response	Response By	Response Date (In/Out)	AD#
	CIVIL	CIVIL SCOPE	Is the outfield dirt warning tracks for field 2 & 3 should be included in Base Bid or Alternate #3?	Green-Simmons	Outfield warning tracks for both fields are in the base bid.	SAWGRASS	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
:	2 ARCH	A260	(Bahama Shutter Schedule) Shutter Type 1- Not found on elevation drawings. Please advise.	Green-Simmons	Bahama Shutter Type 1 was removed from the elevations, but we were not able to update the schedule prior to issuing the drawings. We will revise the schedule in Addedum #1 so that Shutter Type 1 is the shutter size used at the Batting Cage Facility. The Tags on the Batting Cage elevations will be updated to match.	Davis Architects	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
;	3 ARCH	A260	(Bahama Shutter Schedule) Shutter Type 10 - Not found on Bahama Shutter Schedule, but four(4) shown on Batting Cage. Please advise.	Green-Simmons	Tag Number "10" relates to the material/fabrication note on the LEGEND-BATTING CAGE EXTERIOR MATERIALS AND FABRICATIONS. We have since added a Shutter Schedule TAG "1" to the elevations that will related to the revised Sheet A260 Shutter Schedule.	Davis Architects	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
	ELEC.	E101	(Note 6) Drawings calls for new wire to be pulled in existing conduit. Is there a way to know what size wire is in the conduit now or the size to replace it with?	Green-Simmons	The wire size is believed to # 2 AWG in 2" C	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
	ELEC.	E302	(Press Box Plans) Are we to quote wiring the press box or just supply the 100 amp feeder to it? The spec section for prefabricated press box said the unit will be prewired from the factory.	Green-Simmons	Supply the 100A feeder, Data cables. Scoreboard cables, and installation of equipment and associated cabling in Data Room.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
	6 ELEC.	E302	(Press Box Plans) Do We furnish lights and devices?	Green-Simmons	Lights, switches, exit devices, smoke detectors, etc will be provided and installed by the press box manufacturer. Pres Box Manufacturer should provide the entire press box with the exception of a/v equipment and selective wiring. We highly recommend you to speak with the press box manufacturer and familiarize yourself with their services as services can vary between manufacturers.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
	' ELEC.	E302	(Press Box Plans) Doe we furnish the wiremold as noted?	Green-Simmons	GC should coordinate whether their Press Box Manufacturer bidding is providing the wiremold. Typically the pressbox manufactuer should provide all building elements of the press box, with the execption of a/v equipment and selective wiring/paneling. If your press box manufacturer which bid you are using does not provide certain elements then it will be the responsibility of the GC to include in their scope.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
;	B ELEC.	E104	(Pole Detail) Calls for welded nipples installed to the poles. The existing poles are concrete, do we need direction from core drilling holes in the existing pre-stressed poles?	Green-Simmons	Core drill pole and install RGS conduit fitting with short section off conduit. GC will need to seal any gaps with paintable exterior grade sealant and paint sealant and visible conduit to match surrounding pole paint color. Or propose an alternate method.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
,	ARCH/STRUC T	A300/S002	(Legend Arch Exterior Materials - Note 4) Arched Header as a "precast" concrete item. Sheet S002 typical details is calling for the header to be cast-in-place concrete. Please clarify what is required?	Green-Simmons	The ARCH is a Pre-Cast Arch. However, there are dowels that will need to be inserted into the arch so holes will need to be preformed to receive these dowels and then once the arch is installed the GC must fill these dowel holes w/ grout. See TYPICAL CONC. ARCH ELEVATION on Sheet S002	Davis Architects	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
10	ARCH	Specs	Please provide specs on the interior signage (if any) in the press boxes.	Persons Services	There are no interior signage in the press box.	Davis Architects	(IN) 6/2/2020 (OUT) 6/5/2020	N/A
1	ARCH	Specs	Do existing structures need to be included in our Builder's Risk? If so, which structures?	Persons Services	No. Existing structures do not need to be incldued in builders risk. Though GC will be responsible for protecting any structures in the construction area that are to remain.	Davis Architects	(IN) 6/2/2020 (OUT) 6/5/2020	N/A
1:	∑ ARCH	A001	Please provide a detail for th enew proposed scoreboard structure. (Plywood, 4x4, concrete footings, etc.)	Persons Services	No detail will be provided. The scoreboard and structure is existing. See <i>APPROXIMATE RELOCATION OF SCOREBOARD</i> Note, on Sheet A001 for clarification of new elements. GC will need to install the new 6x6 presure treated and termite treated posts at a depth in 3000 psi concrete necessary to achieve equal or greater structural stability then the existing conditions. The existing footings are likely auger drilled pier footing where concrete was poured around the wood post.	Davis Architects	(IN) 6/2/2020 (OUT) 6/5/2020	N/A

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No.	Scope	Sheet	Question/Comment	Source	Architect / Owner Response	Response By	Response Date (In/Out)	AD#
		Spec					` ′	
13	ELEC.	ELEC SCOPE	In the pre-bid walk-thru, it was discussed that the scoreboard itself will remain the same but the structure will be new. Will the Electricians need to hook the board back up?	Persons Services	Yes, the board will need to be hooked back up. New install should match existing installation.	GSE	(IN) 6/2/2020 (OUT) 6/5/2020	N/A
14	ARCH	Spec (323113)	Project Manual Table of Contents includes Specification 32 3113 Chain Link Fences and Gates, however there is no specification section included in the project manual. Please provide.	Green-Simmons	My set shows this spec as the last spec in the project manual., but if you download our file from the plan rooms or from Orange Beach Purchasing Bid web site the Chain Link Fences and Gates is the last spec in the project manual.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
15	ARCH		(Specification section 13 3416.13 Grandstands, Paragraph 1.01B.6) Mentiones a Geotech Report as part of the foundation design of the grandstands. Has a Geotech Report been performed for this project? If so please provide.	Green-Simmons	This can be found in our Project Manual. The Geotech Foundation Bearing Soil Evaluation was our Geotech report and included in the Project Manual in Spec Section 003110 following/related to the Available Project information Spec Section 003100	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
16	CIVIL	C400/C200	Sheet C400 indicates we are to regrade the infield grass area to 0.5% on field #2. Sheet C200 indicates turf is to remain. Which are we to do?	Persons Services	The infield of Field 2 is to remain as is. The infield is already at 0.5% slope and it is NOT to be regraded or re-sodded.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
17	CIVIL		If we are to regrade should we extend the drainlines across the infield turf area and replace the irrigation?	Persons Services	The proposed drainlines WILL NOT cross into the infield of field #2, they will stop in the foul lines.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
18	CIVIL	CIVIL SCOPE	What is the desired depth of infield mix?	Persons Services	The infield mix shall be 4" thick.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
19	CIVIL	CIVIL SCOPE	Is the new warning track to be included in the base bid?	Persons Services	See Bidder Question #1 for the response to the previous question.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
20	ARCH	ARCH SCOPE	Are the steel support columns and connecting beams included the structural steel bid and do we only need to bid the fabric? or Is the steel to be bid within the fabric design as part of the canopy?	Industrial Shades Incorporated	Per our specification only the fabric canopy and canopy attachment accessories will be provided and installed by the canopy manufacturer. The Steel Columns and frames will need to be engineered, provided and installed by the GC based on the drawings. Once the structure is installed and painted a company like yours should come in and install the fabric, cabling and accessory portions of the canopy itself. Please see the 13 3100 Fabric Structures specification for additional and clarify scope.	Davis Architects	(IN) 6/4/2020 (OUT) 6/5/2020	N/A
21	ARCH	ARCH SCOPE	In regards to the chairs for the grandstand – Interkal Aura Chair. Is the owner looking for chairs to have a solid back or one with slats?	Green-Simmons	Use solid back option. Do not use Slat option.	Davis Architects	(IN) 6/4/2020 (OUT) 6/5/2020	N/A
22	ARCH	ARCH SCOPE	The one question I do have is on the drawing, it looks like the tie-back pole is part of the grand stand structure and not a separate steel pool. In the spec language, it asks for a 20" steel poles for the tie-back. Could you please clarify which one is correct.	Beacon Athletics	There are two tie back poles provided by the netting company on the opposite side of each dugout and two columns acting as tie back poles provided by the gc/steel erector that are located behind the grandstand. The design of each GC column is assuming 2 kip max load for the netting system	Davis Architects	(IN) 6/5/2020 (OUT) 6/5/2020	N/A
23	ELEC.	Spec (Div 27/28)	The table of contents in the specifications references division 27 communications and division 28 electronic safety and security. I do not see those divisions in the specs? Please provide those sections	Bill Smith Electric	These are not required and that is why no specs were listed with the sections.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
24	ELEC.		Data/Tel Riser Diagram shows new fiber optic cable, racks, converter, FDU, Rack mounted switches, etc. Is this cable and equipment part of the electrical scope or is it owner furnished? Please clarify if the electrical scope includes all communications equipment devices, cabling, etc.? Please provide specs	Bill Smith Electric	It is included in the electrical scope. A. Fiber Optic Cable – Similar or equal to Corning #006TUC-T4180D20 (OM3) B. CAT 6 C. Rack – Similar or equal to CPI # 11791-X25 D. Converter – Similar or equal to Transition Networks #SGETF1013-110-NA E. FDU – Similar or equal to – C2G #39101 F. Rack Mounted Switches – Similar or equal to Cisco Catalyst C9200-24P 24-port Gigabit POE switch	GSE	(IN) 6/9/2020 (OUT) 6/#/2020	N/A
25	ELEC.	ELEC SCOPE	E sheets mention BXD bird expeller device and bird control device. Who is providing these devices? Who is responsible to install them? Can you provide a cut sheet with installation instructions as mention on sheet E103 keyed note 4?	Bill Smith Electric	These are provided and installed under the electrical contract. Cut sheet and instruction attached. Model #BXP.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
26	ELEC.	E501	Sheet E501 Security camera system diagram. Plans mention cameras are owner furnished. Are they owner installed or contractor installed? Is the rest of the camera system (cabling, POE Switches, etc.) contractor provided and contractor installed? What about NVR/DVR? Please provide specs and cut sheets.		Cameras are owner furnished and installed. The rest of the camera system (cabling, POE Switches, etc.) contractor provided and contractor installed.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A

No.	Scope	Sheet or Spec	Question/Comment	Source	Architect / Owner Response	Response By	Response Date (In/Out)	AD#
27	' ELEC.	E500	Is the audio equipment, cabling, etc. owner furnished or contractor furnished? Please provide specs	Bill Smith Electric	This entire system is to be provided under this contract. Electrical contractor to install all raceways, and power as shown on drawings. A/V company will install all A/V equipment and install all signal and speaker cabling. The equipment components are on drawing. This system was designed by Modern Sound 251-380-9080 (Joe Fulton). None of this is Owner Furnished or installed.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
28	ELEC.	ELEC SCOPE	WAP wireless access point. Please provide a detail or spec regarding what equipment was used as the basis of design. Please provide spec	Bill Smith Electric	Ubiquiti Unifi UAP-AC-M-PRO. Outdoor POE + Access point. 2.4/5GHz-1300 Mbps – WIFI.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
29	ELEC.	Spec (108113)	Please confirm the number of bird control devices are two each at the batting cage (alt#2) and one each at field #2.	Green-Simmons	(2) each at Field 2. (2) each at Field 3. (2) each at Batting Cage Building.	GSE	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
30) ARCH		Paragraph 1.03 speaks of a contingency allowance. Is there a contingency allowance for this project?	Green-Simmons	The Owner has a contingency, but it is not being held within this project as an Allowance. The amount will not be publically released.	Davis Architects	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
31	CIVIL		3. Reference erosion control sheets C500 and C501. The notes on these sheets make reference to wetland buffer zones and delineated wetlands however none are identified. Is this project directly affected by wetland buffer and delineated wetlands?	Green-Simmons	No	SAWGRASS	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
32	ARCH	Spec (015000)	Paragraph 1.07 Temporary Fence. Is the temporary construction fence required to be screened?	Green-Simmons	Yes	Davis Architects	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
33	3 ARCH	Spec (015000)	Paragraph 1.09,D.3 contains verbage about the temp site enclosure fence becoming Owner's property? Please clarify what is meant by this statement	Green-Simmons	The GC will maintain and have complete responsibility of the fence throughout construction, however once demolition is completed the GC must provide a copy of all the gate and access keys to the fencing in order to access the site. The temporary fence will stay up until completion and then be taken down prior to the turning over the facility to the Owner.	Davis Architects	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
34	CIVIL	CIVIL SCOPE	Is there a requirement for a NPDES or SWPP permit for this project?	Green-Simmons	Yes, the site is larger then an Acre	SAWGRASS	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
35	5 CIVIL	CIVIL SCOPE	Is the foul line fencing for both fields to be removed and replaced with new fencing. Drawing sheet D002 does not specifically say to remove foul fencing but Drawing sheets A001 and A002 seems to indicate new fencing that would be included in the base bid. Please clarify.	Green-Simmons	See G101 for listed Alternates, See Civil for all notes and direction regarding field fencing. Architectural Drawings do not identify responsibilies for Field Fencing. Architectural drawings only identify fencing requirements for fencing beneath and around the buildings/grandstand.	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
36	6 ARCH	Spec (014000)	Paragraph 1.07A says "Owner will employ services of an independent testing agency to perform certain specified testing; payment for cost of services will be derived from allowance specified in Section 01 2100". There is currently no allowance for owner testing in this section. Also do we include this allowance in our proposal?	Green-Simmons	The Owner will hire their own Testing Agency after the project has bid. So the GC will not need to include a Allowance in for the Owners Testing Agency	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
37	, ARCH/STRUC T	Spec (014538 & 051200)	The Owner-employed services includes testing and inspections for Earthwork, Cast-In-Place Concrete, Unit Masonry Assemblies and Structural Steel. Regarding the Structural Steel testing and inspections, most of the steel fabricators quoting this project are small steel fabricators who do not maintain AISC certifications. Spec Section 05 1200 – Structural Steel Framing, paragraph 1.6 Quality Assurance, section A offers an alternative to having a AISC certification program. This involves the testing agency to perform a shop audit at the fabricators plant along with other inspections. Will the this work be included in the Owner's testing agency allowance?	Green-Simmons	Due to the scale of this project we will waive the requirement for the steel fabricator to maintain a AISC Certification. No Audit will be required. No allowance is provided.	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
38	OWNER	OTHER	Are there any dedicated field staff positions required by the owner on this project?	Green-Simmons	Yes, there needs to be a full time super intendant on site.	City of Orange Beach	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
39	ARCH	OTHER	Is a temporary on-site job trailer required for this project?	Green-Simmons	Yes	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A

No.	Scope	Sheet	Question/Comment	Source	Architect / Owner Response	Response	Response	AD#
		or Spec				Ву	Date (In/Out)	
40	CIVIL/ARCH	C100 & D002	Regarding the existing irrigation on site. The contractor understands that reworking the existing irrigation is part of the scope of work for this project however, there is no way to accurately provide an estimated cost for this work. We would at best be throwing money at it to cover the work involved and therefore don't feel like this is the best solution. Please consider providing an allowance for the rework of the existing irrigation system.	Green-Simmons	No allowance was or will be set for this. All GC's have been welcome to visit the site to elvauate the existing conditions until bid to field verify concerns, determine conflicts and estimate of services. (The majority of work being done will be locating the valves, heads and lines prior to demolition in the area of work. Then anything within the area of demolition will be removed and then capped per the general irrigation notes. The GC will have to salvage any and all meters, valves, controllers and irrigation heads located in the area of demolition to be turned over to the owner. The GC will mark where the demolished lines have been capped and then coordinate this information with the owner immidiantly so that they can begin the installation of a temporary valve/meter as needed to tie into the existing lines which will remain untouched so that the irrigation on the fields can continue to take place throughout construction. A meeting will need to held to discuss how the temporary line will be installed and managed prior to demolition.	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
41	ARCH/OWNER	OTHER	The construction schedule is very tight for this project. With an anticipated NTP of July 8th and a completion date of January 15, 2021 that gives the contractor 27 weeks to do the work. Added to the fact that Thanksgiving, Christmas and New years will shorten the schedule even further. Our main concern involves long lead items specifically the PEMB and more importantly the Grandstand package. We are being told by more than one grandstand manufacturer that it will take them 24 weeks to prepare and submit shop drawings (arch review not included), fabricate, deliver and install both grandstands. (see attached info from Outdoor Aluminum). Please ask the Owner to consider adding 30 additional days to complete this project. Another option might be to establish January 15th as the Substantial Completion date and February 15th as the Final Completion date	Green-Simmons	This will be considered and discussed, but not confirmed until the bid date at the latest.	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
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SECTION 13 3416.13 GRANDSTANDS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Provide all labor, materials, equipment, engineering, and installation to provide a new permanent grandstand structure in accordance with the following specifications:
- B. Minimum acceptable criteria:
 - 1. Design per plan view and sectional view drawings.
 - 2. High Traction Welded Decking System as defined by ANSI/NSFI B101.1 and ANSI/NFSI B101.3 meeting the wet coefficient of friction (COF) of .6 on all walking surfaces. If media blasting is used to obtain the necessary wet (COF) of .6, those surfaces shall be anodized.
 - 3. All structural steel must be manufactured by an AISC certified structural steel manufacturer.
 - 4. All steel to be hot-dipped galvanized after fabrication.
 - 5. Powder coated enclosure panel on upper front portion of grandstand; ramps and stairs; front of Press Box.
 - 6. Concrete foundations shall be designed by the grandstand manufacturers engineer based on loads and foundation support reactions provided by grandstand manufacturers and geotechnical report. Grandstand foundations are to be included in this scope of work and shall be installed by a manufacture certified concrete installer with a minimum of 10 years' experience in grandstand foundations
 - 7. The overall length of grandstand shall be as per architectural drawings.
 - 8. The number of rows shall be as per architectural drawings.
 - 9. Height of front cross aisle from grade shall be as per architectural drawings.
 - 10. Width of front walkway to be as per architectural drawings
 - 11. The rise per row shall be as per architectural drawings.
 - 12. The depth per row shall be as per architectural drawings.
 - 13. Net seating capacity shall be as per architectural drawings.
 - 14. ADA seating shall be as shown on architectural drawings.
 - 15. The riser shall be structurally connected to the decking system panel every 12" longitudinal with ¼" diameter structural grade rivet. Tek screws are prohibited
 - 16. One-piece risers shall interlock to row above and overlap the rear tread of row below forming the required overlapping and interlocking riser system. Two piece and or wedged in risers are prohibited
 - 17. There shall be no gaps or cavities between the riser portion of the decking system and any supports or attachments. Open portions of the bolt runner are prohibited.
 - 18. Aluminum extrusions using alloy 6063-T6 and 6061-T6.
 - 19. Understructure framing consist of galvanized structural steel square tube columns, supports and stringers that form a clear span design per drawings.
 - 20. All welded connections shall be by certified steel and aluminum welders and inspected at the manufacturer by a licensed CWI
 - 21. Aisle and Egress stairs shall have a ½" overlap.
 - 22. At locations where platforms meet end to end a beveled four inch wide aluminum threshold shall be provided to cover the walking surface.
 - 23. Seat support system shall be universally adjustable to any location on the vertical plane of the decking system and shall. There shall be no through bolting of these items.
 - 24. All seat support, aisle step supports, aisle handrails and risers shall be installed from the topside of the decking system. There shall be no through bolting of these items through the riser system.
 - 25. Guardrail system shall consist of all-aluminum guardrail posts and railings with black vinyl chain link fencing

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26. Grandstand manufacture must have a written quality control program for manufacturing, shipping and installation.

1.02 RELATED REQUIREMENTS

- A. Section 03 3000 Cast-in-Place Concrete: Concrete mix design and testing requirements.
- B. Section 13 3416.16 Prefabricated Press Box

1.03 REFERENCE STANDARDS

- A. AISC (COMM) Commentaryon the Specification for Structural Steel Buildings; 2005.
- B. ANSI/NFSI B101.3 Test Method for Measuring Wet DCOF of Common Hard-Surface Floor Materials; 2012.
- C. ANSI/NSFI B101.1 Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials; 2009.
- D. ASTM A1011/A1011M Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2018a.
- E. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
- F. ASTM A307 Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2014 (Editorial 2017).
- G. ASTM A36/A36M Standard Specification for Carbon Structural Steel; 2014.
- H. ASTM A500/A500M Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2013.
- I. ASTM A992/A992M Standard Specification for Structural Steel Shapes; 2011 (Reapproved 2015).
- J. IAS AC172 Accreditation Criteria for Fabricator Inspection Programs for Structural Steel; International Accreditation Service, Inc; 2017.
- K. ICC (IBC)-2018 International Building Code; 2018.
- L. ICC 300 Standard for Bleachers, Folding and Telescopic Seating and Grandstands; 2017.

1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of the following grandstand system components as follows: All approval drawings shall bear the seal of a registered professional engineer in the state of installation.
 - 1. Foundations:
 - a. Footings, foundations, reinforcement and anchor bolt setting plan.
 - 2. Structural framing: All structural framing members shall have a permanent piece mark that shall correspond to the shop drawings and bill of material.
 - 3. Primary and secondary framing including but not limited to the following:
 - a. Columns
 - b. Beams
 - c. Stringers
 - d. Bracing
 - e. Connecting hardware
 - 4. Interlocking Decking System or Welded Decking System:
 - a. Decking Platforms
 - b. Risers
 - c. Supports for Seats
 - d. Aisle Steps

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- e. Aisle Handrails
- f. Egress Stairs
- g. Hardware
- h. Seating
- i. Handrails / Guardrails
- C. Finish Samples: 3 physical samples of each finish and product for approval.
- D. Color Samples: 3 samples of each color selection for approval.
- E. Manufacturer's Mill Certificate: Certify that products meet or exceed specified requirements.
- F. Fabricator Test Reports: Comply with ASTM A1011/A1011M.
- G. Designer's Qualification Statement.
- H. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.
- I. Welders Certificates: Certify welders employed on the Work, verifying AWS qualification within the previous 12 months.

1.05 QUALITY ASSURANCE

- A. Designer Qualifications: Perform design under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least five years of documented experience.
- C. Concrete Installers Qualifications: An experienced installer who has completed concrete work similar in material, design and extent indicated for this project and whose work has resulted in construction of grandstands with a record of successful in-service performance. Concrete installer must be certified by grandstand manufacturer.
- D. Erector Qualifications: An experienced erector who has specialized in erecting and installing grandstands similar in material, design, to the extent indicated for this project and whose work has resulted in construction of grandstands with a record of successful in-service performance. Grandstand Erector must be certified by grandstand manufacturer.
- E. Quality Control: Manufacturer's written quality control for manufacturing, shipping and installation shall be submitted prior to award of contract.
- F. Standards and Guidelines: Comply with the provisions of the following codes, specifications and standards, latest editions, except as otherwise noted or specified:
 - 1. American Concrete Institute (ACI)
 - 2. American Institute of Steel Construction (AISC (COMM)
 - 3. American Welding Society (AWS)
 - 4. Americans with Disabilities Act (ADA)
 - 5. Underwriters Laboratory (UL)
 - 6. National Electrical Code (NEC)
 - 7. International Building Code (ICC (IBC)-2018)
 - 8. International Building Code Standard for Bleachers, Folding and Telescopic Seating and Grandstands (ICC 300).
 - 9. Site visitation: Bidder shall be responsible for visiting the job site prior to the bid date to verify site conditions.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Grandstand materials and other manufactured items will be packaged and loaded for transport to prevent bending, warping, twisting, and surface damage of materials. Care will be taken at the job site to prevent any damage to materials.
- B. Grandstand materials must not be stored where they would come in contact with other materials that might cause staining, denting or other surface damage.

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1.07 WARRANTY

A. All products after proper erection, and under normal use for this type of structure shall carry a minimum five (5) year warranty against all defects in materials and workmanship.

PART 2 PRODUCT

201 MANUFACTURERS

- A. Basis of Design Manufacturer: Outdoor Aluminum, Inc: www.outdooraluminum.com.
- B. Other Acceptable Manufacturers: Subject to requirements, provide grandstand systems by one of the following:
 - 1. Southern Bleacher Company Inc: www.southernbleacher.com.
 - 2. Dant Clayton: www.stadiumbleachers.com.
 - 3. GT Grandstands: www.gtgrandstands.com.
 - 4. STURDISTEEL: www.sturdisteel.com.
 - 5. Substitutions: See Section 01 6000 Product Requirements.

202 SYSTEM PERFORMANCE REQUIREMENTS

- A. General: Provide a complete system of mutually dependent components and assemblies that form a grandstand system. The grandstand shall be designed to conform to structural and other load requirements, thermally induced movement, and exposure to weather without failure. All primary and secondary framing, decking system, seating, handrails /guardrails, ramps and accessories shall comply with the requirements indicated, including those in this Article. Foundations, Structure and Reinforcement to be designed and installed to meet local Codes and ICC-300 requirements.
- B. Structural Performance: Provide grandstand system capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Design Loads / Structural Framing Members:
 - a. Dead Loading: 6 PSF for understructure
 - b. Live Loads: 100 PSF for understructure
 - c. Deflection Limits: engineer assemblies to withstand design loads with deflections no greater than the following:
 - 1) Stringers: vertical deflection of L/240.
 - 2. Design Loads / Decking System:
 - a. Dead Loading: 6 PSF for decking, platforms, stairs and ramps.
 - b. Live Loads: 100 PSF for decking, platforms, stairs and ramps.
 - c. Deflection Limits: engineer assemblies to withstand design loads with deflections no greater than the following:
 - 1) Decking, platforms, stairs and ramps: vertical deflection of L/360.
 - d. Sway loads of 24 PLF per row parallel to seat and 10 PLF per row perpendicular to seat run.
 - 3. Design Loads / Handrail / Guardrail:
 - a. 100 PLF Vertical.
 - b. 50 PLF applied in any direction at the top.
 - c. 200 LB Concentrated load any direction.
 - d. 50 PSF Fencing and guardrail infill.
 - 4. Design Loads / Seat Boards:
 - a. Live loads: (vertical) 120 pounds per lineal foot.

203 CONCRETE FOUNDATIONS

- A. Foundations shall be designed in accordance with mix designs per Section 03 3000-Cast-in-Place Concrete.
- B. Foundations shall be based on a subsurface exploration report furnished by the Architect/Owner.

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C. Foundations, Structure and Reinforcement to be designed and installed to meet local Codes and ICC 300 Requirements.

204 STRUCTURAL - FRAMING MEMEBERS

- A. Structural-Steel Shapes: ASTM A992/A992M tensile yield strength, 345 MPa (Fy = 50 ksi); tensile ultimate strength, 450 MPa (Fu = 65 ksi)
- B. Steel Plate, Bar or Strip: ASTM A36/A36M.
- C. Steel Tubing or Pipe: ASTM A500/A500M, Grade B.
- D. Bolts, Nuts and Washers: ASTM A307 hex carbon and alloy steel bolts, nuts, and washers.
- E. Anchor Rods, Bolts, Nuts and Washers: As follows:
 - 1. Headed Bolts: ASTM A307, Grade A carbon -steel, hex-head bolts; and carbon-steel nuts.
- F. Finish: Minimum 2 oz. hot dipped galvanized in accordance with ASTM A123/A123M with minimum thickness of 3.3 mils.
- G. Horizontal Beams: Horizontal beams shall be wide flange units, supported on columns as required to transfer stadium loads to foundations.
- H. Vertical Columns: Columns shall be of structural square tube. Use of wide flange beams for columns is prohibited.
- I. Bracing: All transverse bays shall be free of cross bracing. Longitudinal bays shall be braced in alternate bays where possible. All bracing shall be 7/8" rod and shall be double-nutted at connection points through the columns.
- J. Stringers: Stringers shall be wide flange material with welded angle riser and tread supports.

205 DECKING SYSTEM:

- A. Decking System Platforms
 - 1. Decking system platforms shall be an all-aluminum extruded system attached to the understructure by means of concealed aluminum clips, galvanized bolts, washers and nuts. The rear portion of the platform will turn ninety degrees vertical to accept the next row of decking platforms. The front portion of the platform shall be complete with a female front edge to allow for a positive male / female connection of a vertical riser. Individual aluminum components shall be joined by means of the metal inert gas process. The attachment of the riser to the platforms shall form a structurally integrated system.
 - 2. Individual platforms shall be tread depth x 37'-6" maximum length with the actual length designed to create the minimum number of expansion seams.
 - 3. Platform shall have a minimum aluminum wall thickness of .078" and aluminum shall be alloy 6063-T6.
 - 4. Walking surface shall be fluted high traction and aesthetically pleasing without showing traffic pattern wear.
 - 5. The platforms shall have integral bolt runners to allow for the attachment of seat supports, aisle steps and aisle handrails to be made without penetrating the decking system. Through bolting is prohibited. After installation of the above components, there shall be a full closure of the bolt runner using an aluminum cover strip. Open portions of the bolt runner are prohibited.
 - 6. Deck shall allow for reconfiguration of seating and aisles without alteration of the understructure.
 - 7. At locations where platforms meet end to end a four-inch wide aluminum threshold shall be provided to cover the walking surface. Threshold shall be beveled on both sides so as not to create a trip hazard and must have a fluted surface to prevent slipping. Threshold shall be integrated with front and rear covers for the platforms that conceal transition from the horizontal to the vertical portions of the deck. Threshold must comply with specified deflection criteria and once installed must allow for expansion and contraction.

B. Decking System Riser

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- The decking system riser at aisles shall be extruded aluminum; alloy 6063-T6 with a powder-coated finish – Color Selection by Architect.
- 2. This extrusion shall have a male ridge running continuous at the upper leading edge to interlock with the front portion of the decking system panel.
- 3. The riser shall be structurally connected to the decking system panel every 12" longitudinal with 1/4" diameter structural grade rivet.
- 4. There shall be no gaps or cavities between the riser portion of the decking system and any supports or attachments.
- 5. Max 3" offset from finish grade or finish floor whichever is adjacent.

C. Decking System Seat Supports

- 1. The decking system seat support shall be of extruded aluminum angle. 2-1/2" x 2" x 3/16", alloy 6061T6, mill finish.
- 2. Once installed the seat support shall have no noticeable gaps between the decking system riser and support.

D. Decking System Aisle Handrails

- 1. The decking system aisle handrails shall be 1-5/8" schedule 40 anodized aluminum pipe and riser mounted. Flange deck mounted is unacceptable.
- 2. Handrails shall have a center line handrail and the spacing between rails shall not be less than 22" or more than 36". Handrails shall be discontinuous and shall not span more than five rows of seating.

E. Egress Stairs

- The decking system egress stair stringers are to be constructed of 8" aluminum channel, alloy 6061-T6. Tread supports to be welded to 8" member to totally cap the end of the 2" x 12" stair tread against the channel web.
- 2. Walking surface of tread shall be complete with female front edge to allow for positive male / female connection of the riser closure. All risers shall be powder coated and fastened to the rear tail of the stair tread with 1/4" diameter structural grade aluminum rivets.
- 3. Stair treads nosing to be anodized black. Nosing shall have no external fasteners. The leading edge of the step tread shall project ½" past the front of the vertical riser.
- 4. Stair grab rail to be constructed of 1-5/8" schedule 40 anodized aluminum pipe with no fittings at transition from sloped system to grade.

F. Decking System Hardware

- 1. All bolts, washers and nuts shall be galvanized.
- 2. End caps shall be of a heavy duty, clamping, aluminum channel design fastened to the ends of extrusions with aluminum rivets. End caps shall close all end openings of extrusions and shall be a full-length piece and match in both color and finish the extrusion to which they attach.
- 3. All riser fasteners shall be structural ½" diameter structural grade rivet.

206 SEATING

A. Bench Seating

- Seats shall be of extruded aluminum with a fluted surface, alloy 6063-T6, with 204R1 anodized clear finish
- 2. Plank shall be 2" by 10" nominal with a wall thickness of .078" (+ / -.006" industry tolerance) at the smooth surface.
- 3. Finish size shall be 1-3/4" by 9-1/2"
- 4. Seats shall attach to the decking system seat supports by means of concealed aluminum clips, galvanized bolts, washers and nuts.
- 5. End caps shall be of extruded aluminum and shall match in both color and finish the plank to which they attach. All end caps shall be single piece and shall attach to the underside of the plank with a minimum of two aluminum rivets.

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- 6. Manufacturer's Continuous backrest to be installed at specific bench locations.

 Manufacturer to provide backrest with equivalent standards for finish and attachment to that of the bench installation. See plans for locations and manufacturer to use continuous manufacturer backrest.
- B. Interkal Aura Chairs (minimum 32" tread depth required).
 - 1. Chairs shall be designed to allow the seat pan to flip up allowing for the specified clear aisle access way. Aisle access way shall be measured with the chair unoccupied.
 - 2. Seat portion of chair shall be gravity activated with an internal quieting bumper.
 - 3. Stanchions shall be an integral part of the grandstand system.
 - 4. Seat back and pan shall be the only installation required in the field.
 - 5. Seat pan and back shall be blow molded plastic with color throughout. Color shall be selected by the Architect and submitted for approval prior to install.

207 HANDRAILS / GUARDRAILS

- A. Handrail / Guardrail System
 - 1. All railing shall consist of 1-5/8" schedule 40 anodized pipe.
 - 2. All pipe fittings shall be of cast aluminum.
 - 3. Guardrail supports to be 4" aluminum channel, alloy 6061-T6.
 - 4. Rail pipe shall be secured to the guardrail support by means of galvanized tension bands.
 - 5. The top rail shall be 42" minimum above the nearest seat on the sides and rear, and 42" above the tread on the front walkway.
 - 6. Handrails on stairs shall be 34" above the leading most edge of the stairtread.
 - 7. A black vinyl coated chain link fence shall be provided on the front, sides and rear of the grandstand and at all egress areas.
 - 8. Handrails shall be provided at all walking areas and shall extend 1-1/2" from guardrail material. Standoff shall be extruded aluminum, alloy 6061-T6
 - 9. Handrails shall have internal sleeves for splice purposes and finished rail shall be continuous and shall not exceed 1-5/8" diameter.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Before erection proceeds, certified grandstand installer will survey elevations and locations of concrete foundations or pads and anchor bolts to verify compliance with the requirements of grandstand manufacturers' tolerances.

3.02 ERECTION

- A. Erect grandstand system according to manufacturer's written instructions and erection drawings.
- B. Do not field cut, drill or alter structural members without written approval from grandstand system manufacturer's professional engineer.
- C. Set structural framing in locations to elevations indicated according to AISC specifications referenced in the specification.

3.03 CLEANING AND PROTECTION

- A. Clean all metal surfaces promptly after installation of work.
- B. Exercise care to avoid damage to protective coatings and finishes.
- C. Remove all excess construction material and dispose of all debris.
- D. Protect installed construction until Date of Substantial Completion.
- E. Protect installed structure from damage or deterioration until Date of Substantial Completion.
- F. Repair or replace damaged elements before Date of Substantial Completion.

END OF SECTION

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	1 2
	CODE SUMMARY
Р	APPLICABLE CODES
N	2018 (IBC) INTERNATIONAL BUILDING CODE 2018 (IECC) INTERNATIONAL ENERGY CONSE 2018 (IPC) INTERNATIONAL PLUMBING CODE 2018 (IGC) INTERNATIONAL FUEL GAS CODE 2018 (IMC) INTERNATIONAL MECHANICAL CO 2017 (NEC) NATIONAL ELECTRICAL CODE 2018 (IFC) INTERNATIONAL FIRE CODE 2013 NATIONAL FIRE ALARM AND SIGNALING ANSI/ASHRAE/IESNA STANDARD 90.1-2013 EI BUILDINGS EXCEPT LOW-RISE RESIDENTIAL ANSI A117.1 -2018 ACCESSIBLE AND USABLE 2010 ADA STANDARDS FOR ACCESSIBLE DE ICC 300 STANDARD ON BLEACHERS, FOLDIN
	SEATING, AND GRANDSTANDS
	PROJECT PROPERTIES
М	PREMISE - THIS PROJECT WILL RENOVATE THE EXISTING ORAN SOFTBALL FIELDS WITH TWO NEW GRANDSTANDS AND PREEI BUILDING - GC WILL DEMOLISH A PORTION OF THE EXISTING B SEATING AREA TO MAKE ROOM FOR 2 NEW PRE-ENGINEERED CONVENTIONAL CONSTRUCTION WILL TAKE PLACE AROUND THE NGINEERED GRANDSTAND AND BE STRUCTURED SEPARATEL AS AN ALTERNATE THERE WILL BE A NEW EXTERIOR PRE-ENGINEW BATTING CAGE FACILITY.
L	SITE - WILL INCLUDE SELECTIVE DEMOLITION OF THE EXISTING SEATING AREA BETWEEN THE TWO DUGOUTS. THERE WILL BE GRADE, MINIMAL STORM DRAINAGE, POSSIBLE REWORK OF EL CONDUIT. NEW SITE WALKS WILL BE ADDED AND TIED INTO EXI
	(ALL CODE SECTIONS CITED IN THE FOLLOW BASED ON THE IBC UNLESS NOTED OTHER) SINGLE USE OCCUPANCY CLASSIFICATIONS: NEW BASEBALL GRANDSTAND AND PRESS BOX
К	PRIMARY OCCUPANCY: (OUTDOOR SMOKE PROTECTED GRANDSTAND) INCIDENTAL OCCUPANCIES ACCESSORY USE OCCUPANCIES:
_	NEW SOFTBALL GRANDSTAND AND PRESS BOX PRIMARY OCCUPANCY: (OUTDOOR SMOKE PROTECTED GRANDSTAND) INCIDENTAL OCCUPANCIES ACCESSORY USE OCCUPANCIES:
J	NEW PRE-ENGINEERED BATTING CAGE BUILDING PRIMARY OCCUPANCY: INCIDENTAL OCCUPANCIES ACCESSORY USE OCCUPANCIES:
Н	
G	
_	

8 (IBC) INTERNATIONAL BUILDING C			
8 (IECC) INTERNATIONAL ENERGY C		ALLOWABLE AREA: ASSEMBLY (A-5)	UNLIMITED FT ²
8 (IPC) INTERNATIONAL PLUMBING (ACTUAL AREA:	5,497 FT ²
8 (IGC) INTERNATIONAL FUEL GAS (NON-BUILDING ASSEMBLY(SECTION 1029)	BLEACHERS, GRANDSTANDS AND
8 (IMC) INTERNATIONAL MECHANICA 7 (NEC) NATIONAL ELECTRICAL COE		NON-BUILDING AGGEMBET (GEGTION 1023)	FOLDING AND TELESCOPIC SEATING
8 (IFC) INTERNATIONAL FIRE CODE	<i>,</i>		THAT ARE NOT BUILDING ELEMENTS
3 NATIONAL FIRE ALARM AND SIGNA	ALING CODE (NEPA 72)		SHALL COMPLY WITH THE ICC-300.
SI/ASHRAE/IESNA STANDARD 90.1-20	,	NEW SOFTBALL GRANDSTAND AND PRESS BOX	
LDINGS EXCEPT LOW-RISE RESIDEI	NTIAL	II-B CONSTRUCTION AND THE BUILDING IS NOT SP BUILDING HEIGHT & STORIES:	<u>RINKLERED</u>
SI A117.1 -2018 ACCESSIBLE AND US	ABLE BUILDINGS	ALLOWABLE HEIGHT/STORIES:	
O ADA STANDARDS FOR ACCESSIBL	·	ASSEMBLY (A-5)	55 FT / UNLIMITED (SECTION 504.2)
300 STANDARD ON BLEACHERS, FO	OLDING AND TELESCOPIC }	ACTUAL HEIGHT/STORIES:	30 FT MAX / 1 STORY
TING, AND GRANDSTANDS		ALLOWABLE AREA:	
JECT DEODEDTIES		ASSEMBLY (A-5) ACTUAL AREA:	UNLIMITED FT ² 4,778 FT ²
JECT PROPERTIES		ACTUAL AREA.	4,770 F1-
MISE - THIS PROJECT WILL RENOVATE THE EXISTIN BALL FIELDS WITH TWO NEW GRANDSTANDS AND		NON-BUILDING ASSEMBLY(SECTION 1029)	BLEACHERS, GRANDSTANDS AND FOLDING AND TELESCOPIC SEATING THAT ARE NOT BUILDING ELEMENTS
DING - GC WILL DEMOLISH A PORTION OF THE EXIS			SHALL COMPLY WITH THE ICC-300.
TING AREA TO MAKE ROOM FOR 2 NEW PRE-ENGINI VENTIONAL CONSTRUCTION WILL TAKE PLACE ARC			
NEERED GRANDSTAND AND BE STRUCTURED SEP		NEW PRE-ENGINEERED BATTING CAGE BUILDING	
N ALTERNATE THERE WILL BE A NEW EXTERIOR PR	RE-ENGINEER METAL BUILDING SERVING AS A	II-B CONSTRUCTION AND THE BUILDING IS NOT SP	<u>RINKLERED</u>
BATTING CAGE FACILITY.		BUILDING HEIGHT & STORIES: ALLOWABLE HEIGHT/STORIES:	
- WILL INCLUDE SELECTIVE DEMOLITION OF THE E		ASSEMBLY (A-3)	55 FT / 2 STORIES (SECTION 504.2)
'ING AREA BETWEEN THE TWO DUGOUTS. THERE V DE, MINIMAL STORM DRAINAGE, POSSIBLE REWORI		ACTUAL HEIGHT/STORIES:	30 FT MAX / 1 STORY
DUIT. NEW SITE WALKS WILL BE ADDED AND TIED II		ALLOWABLE AREA: ASSEMBLY (A-3) ACTUAL AREA:	9,500 FT ² 7,860 FT²
<u>L CODE SECTIONS CITED IN THE FO</u>			
<u>SED ON THE IBC UNLESS NOTED 01</u>	<u>"HERWISE.)</u>	PASSIVE FIRE RESISTANCE:	
LE USE OCCUPANCY CLASSIFICATIONS:		IDENTIFICATION OF FIRE RATED	
BASEBALL GRANDSTAND AND PRESS BOX		WALLS WITH SIGNS OR STENCILING:	SECTION 703.7 REQUIRES FIRE RESISTIVE
ARY OCCUPANCY:	A-5		WALLS TO BE IDENTIFIED
DOOR SMOKE PROTECTED GRANDSTAND)		STRUCTURAL FRAME	0 HOUR (TABLE 601)
DENTAL OCCUPANCIES	N/A	(COLUMNS, BEAMS AND GIRDERS CONNECTING TO COLUMNS,	
ESSORY USE OCCUPANCIES:	N/A	BEARING WALLS AND DIAGONALS	
ESSORT USE OCCUPANCIES.	N/A	CARRYING GRAVITY LOADS)	
COSTRALL ORANDSTAND AND DESCRIPTION		INTERIOR AND EXTERIOR BEARING WALLS	0 HOUR (TABLE 601 & 602)
SOFTBALL GRANDSTAND AND PRESS BOX ARY OCCUPANCY:	A-5		(EXTERIOR WALLS SHOULD BE DESIGNED
DOOR SMOKE PROTECTED GRANDSTAND)			BASED ON TABLE 602 BASED ON FIRE SEPARATION)
DENTAL OCCUPANCIES	N/A		,
PENTAL GOODI ANGILO	INIA	ROOF CONSTRUCTION	0 HOUR (TABLE 601).
ESSORY USE OCCUPANCIES:	N/A	FLOOR /EQUIPMENT PLATFORM	0 HOUR (NON-COMBUSTIBLE)
		DOOF OOVERING	, , , , , , , , , , , , , , , , , , ,
PRE-ENGINEERED BATTING CAGE BUILDING		ROOF COVERING	CLASS C (TABLE 1505.1)
ARY OCCUPANCY:	A-3	EXTERIOR NONBEARING WALLS	0 HOUR CONSTRUCTION (TABLE 601 & 602)
DENTAL OCCUPANCIES	N/A		(EXTERIOR WALLS SHOULD BE DESIGNED BASED ON TABLE 602 BASED ON FIRE
ESSORY USE OCCUPANCIES:	S		SEPARATION)
LOOUNT USE OCCUPANCIES.	3	DEDMANIENT PARTITIONS	,
		PERMANENT PARTITIONS	0 HOUR (TABLE 601)
		I	

X <u>></u> 30

CONSTRUCTION TYPE:

ASSEMBLY (A-5)

NEW BASEBALL GRANDSTAND AND PRESS BOX

ALLOWABLE HEIGHT/STORIES:

ACTUAL HEIGHT/STORIES:

II-B CONSTRUCTION AND THE BUILDING IS NOT SPRINKLERED BUILDING HEIGHT & STORIES:

ACTUAL AREA:	4,778 FT ²	CHAPTER 7				
NON-BUILDING ASSEMBLY(SECTION 1029) BLEACHERS, GRANDSTANDS AND FOLDING AND TELESCOPIC SEATING, THAT ARE NOT BUILDING ELEMENTS SHALL COMPLY WITH THE ICC-300.		TABLE 705.8: MAXIMUM AREA OF EXTERIOR WALL O AND DEGREE OF OPENING PROTECTION - SEE LIFE S	SAFETY SITE PLANS.			
NEW PRE-ENGINEERED BATTING CAGE BUILDING II-B CONSTRUCTION AND THE BUILDING IS NOT SP BUILDING HEIGHT & STORIES: ALLOWABLE HEIGHT/STORIES: ASSEMBLY (A-3) ACTUAL HEIGHT/STORIES: ALLOWABLE AREA: ASSEMBLY (A-3) ACTUAL AREA:	### RINKLERED 55 FT / 2 STORIES (SECTION 504.2) 30 FT MAX / 1 STORY 9,500 FT2 7,860 FT2		EGREE OF OPENING PROTECTION OTECTED, NON-SPRINKLERED (UP,NS) NOT PERMITTED NOT PERMITTED 10% 15% 25% 45% 70% NO LIMIT			
PASSIVE FIRE RESISTANCE:		706.1: EACH PORTION OF A BUILDING SEPARATED BY PROVISIONS OF THIS SECTION SHALL BE CONSIDER!	ONE OR MORE FIRE WALLS THAT COMPLY WITH THE ED A SEPARATE BUILDING.			
IDENTIFICATION OF FIRE RATED WALLS WITH SIGNS OR STENCILING:	SECTION 703.7 REQUIRES FIRE RESISTIVE WALLS TO BE IDENTIFIED	706.4: FIRE WALLS SHALL HAVE A FIRE RESISTANCE I	RATING OF NOT LESS THAT REQUIRED BY TABLE 706.4			
STRUCTURAL FRAME (COLUMNS, BEAMS AND GIRDERS CONNECTING TO COLUMNS,	0 HOUR (TABLE 601)	GROUP	FIRE RESISTANCE RATING (HOURS)			
BEARING WALLS AND DIAGONALS CARRYING GRAVITY LOADS)		A, B, E, H-4, I, R-1, R-2, U	3HR (NOT APPLICABLE TO PROJECT)			
INTERIOR AND EXTERIOR BEARING WALLS	0 HOUR (TABLE 601 & 602) (EXTERIOR WALLS SHOULD BE DESIGNED BASED ON TABLE 602 BASED ON FIRE SEPARATION)	IN TYPE II OR V CONSTRUCTION, WALLS SHALL BE PERMITTED TO HAVE A 2-HOUR FIRE RESISTANCE RATING. 706.6: FIRE WALLS SHALL EXTEND FROM THE FOUNDATION TO A TERMINATION POINT NO LESS THAN 30 INCHES ABOVE BOTH ADJACENT ROOFS				
ROOF CONSTRUCTION FLOOR /EQUIPMENT PLATFORM	0 HOUR (TABLE 601). 0 HOUR (NON-COMBUSTIBLE)	707.4: FIRE BARRIERS, FIRE WALLS OR HORIZONTAL ASSEMBLIES, OR COMBINATION THEREOF, SEPARATING A SINGLE OCCUPANCY INTO DIFFERENT FIRE AREAS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT INDICATED IN TABLE 707.3.10 MIX OCCUPANCIES TO US THE HIGHEST VALUE INDICATED.):				
ROOF COVERING	CLASS C (TABLE 1505.1)					
EXTERIOR NONBEARING WALLS	0 HOUR CONSTRUCTION (TABLE 601 & 602) (EXTERIOR WALLS SHOULD BE DESIGNED BASED ON TABLE 602 BASED ON FIRE	GROUP	FIRE RESISTANCE RATING (HOURS)			
	SEPARATION)	A, B, E, F-2, H-4, H-5, I, M, R, S-2	2HR (NOT APPLICABLE TO PROJECT)			
PERMANENT PARTITIONS	0 HOUR (TABLE 601)	708 FIRE PARTITIONS				
CORRIDORS	0 HOUR (NOT APPLICABLE)		HALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS			
STORAGE ROOMS(NON-HAZARD)	0 HOUR	THAN 1 HOUR (NOT APPLICABLE TO PROJECT) 708.3 EXCEPTION 1. ALL CORRIDOR WALLS PERMITTED TO HAVE 1/2 HOUR FIRE RESISTANCE RATING BY TABLE 1020.1. (NOT APPLICABLE TO PROJECT)				
TABLE 602: FIRE-RESISTANCE RATING REQUIREMEN SEPARATION - SEE LIFE SAFETY SITE PLANS.		TABLE 1020.1 REQUIRES 1 HR RATING FOR ASSEMBL' APPLICABLE TO PROJECT)	Y OCCUPANCY WITHOUT SPRINKLER SYSTEM. (NOT			
FIRE SEPARATION DISTANCE (FT) $X < 5$ $5 \le x < 10$ $10 \le X < 30$	XTERIOR WALL FIRE RESISTANCE RATING PER FIRE SEPARATION 1 HOUR 1 HOUR 0 HOUR	708.4 CONTINUITY. FIRE PARTITIONS SHALL EXTEND FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSI DECK ABOVE OR TO THE FIRE-RESISTANCE-RATED F AND SHALL BE SECURELY ATTACHED THERE TO.	DE OF THE FLOOR OR ROOF SHEATHING, SLAB OR			

0 HOUR

55 FT / UNLIMITED (SECTION 504.2)

30 FT MAX / 1 STORY

CONSTRUCTION MATERIALS REQUIREMENTS:

USE OF WOOD FIRE RETARDANT TREATED WOOD SHALL BE PERMITTED IN:

EXTERIOR SHEATHING (SECTION 602.4.2): : PERMITTED.

NO RIGID OR SPRAYED INSULATION IS USED IN THE PROJECT.

NONCOMBUSTIBLE (OR FIRE RETARDANT TREATED).

OR LESS. (SECTION 603.1, #1.1): PERMITTED.

(SECTION 603.1, #1.2): PERMITTED.

(SECTION 603.1, #1.3): PERMITTED.

711 FLOOR AND ROOF ASSEMBLIES

PERMITTED BY THIS SECTION AND 712.

<u>CONSTRUCTION MATERIALS:</u>
WALLS, FLOORS AND STRUCTURAL ELEMENTS: NONCOMBUSTIBLE (SECTION 602.2).

NONBEARING EXTERIOR PARTITIONS WHERE FIRE RATING IS NOT REQUIRED.

PLYWOOD WITHIN ROOF ASSEMBLIES: REQUIRED TO BE FIRE RETARDANT TREATED.

INTERIOR NONBEARING PARTITIONS WHERE THE REQUIRED FIRE RESISTANCE RATING IS 2 HOURS

2X BLOCKING (SECTION 603.1, #14): PERMITTED. NOT REQUIRED TO BE FIRE-RETARDANT-TREATED.

711.2 HORIZONTAL ASSEMBLIES: HORIZONTAL ASSEMBLIES SHALL COMPLY WITH 711.2.1 THROUGH 711.2.6.

711.2.2 CONTINUITY. ASSEMBLIES SHALL BE CONTINUOUS WITHOUT VERTICAL OPENINGS EXCEPT AS

711.2.4.5 SEPARATING INCIDENTAL USES. WHERE THE HORIZONTAL ASSEMBLY SEPARATES INCIDENTAL

OF NOT LESS THAN THAT REQUIRED BY SECTION 509. (NOT APPLICABLE TO PROJECT)

USES FROM THE REMAINDER OF THE BUILDING, THE ASSEMBLY SHALL HAVE A FIRE RESISTANCE RATING

WALL AND CEILING FINISH			ASTM E84 CLASSIFICATION			
FLAME SPREAD 0-25, SMOKE DEVELOPMENT 0-450				CLASS A		
AME SPREAD 26-75	5, SMOKE DEVELOPMENT 0-4	50		CLASS B		
ME SPREAD 76-20	00, SMOKE DEVELOPMENT 0-	450		CLASS C		
E 803.11 INTERIOR	R WALL AND CEILING FINISH	REQUIRE	EMENTS B	Y OCCUPANCY		
GROUP	INTERIOR EXIT STAIRWAYS, RAMPS, AND EXIT PASSAGEWAYS	CORF	RIDORS	ROOMS AND ENCLOSED SPACES		
SSEMBLY (A-3/A-5)	А		A	С	Λ	
	STEMS - AUTOMATIC SPRINK SECTION 309 OF THE ICC-30			REQUIRED (SECTION 90	5.3)	
FIRE EXTING	JISHERS		REQ	UIRED (SECTION 906)		
	EALARM SYSTEM EBALL GRANDSTANDS			REQUIRED -300 309.1, EXCEPTION 1)	
SOF	TBALL GRANDSTANDS		NOT REQUIRED (ICC-300 309.1, EXCEPTION 1)			
BATTING CAGES			NOT REQUIRED (SECTION 907.2.1, @ 81 OCC.)			
VOICE EVACUATION BASEBALL GRANDSTANDS			NOT REQUIRED (ICC-300 309.1, EXCEPTION 1)			
SOF	TBALL GRANDSTANDS		NOT REQUIRED (ICC-300 309.1, EXCEPTION 1)			
BAT	TING CAGES		NOT REQUIRED (SECTION 907.2)			
EXCEPTION 1	SMOKE- PROTECTED FACILI : AUTOMATIC SPRINKLERS A CILITIES LESS THAN 1,000 SC	ARE NOT	REQUIRE		2.3)	
FACILITIES W	: AUTOMATIC SPRINKLERS A HERE SEATING AND THE ME OPEN TO THE OUTSIDE.					
	JPANT LOAD FACTORS		SQUAF	RE FEET PER PERSON		
SEMBLY (BENCH S	EATING - ICC 300 - SECTION	403)		18" PER SEAT		
	EATING - IBC - SECTION 1004.	,	1 PE	ER DESIGNED SEAT		
SINESS (EXISTING	BUILIDNG ONLY)			150 SF (GROSS)		
ERCISE				50 SF (GROSS)		
ORAGE/MECHANIC	:AI			300 SF (GROSS)	1	

ASSEMBLY (FIXED SEATING - IBC - SECTION 1004.4)	1 PER DESIGNED SEAT	1015 GUARDS
BUSINESS (EXISTING BUILIDNG ONLY)	150 SF (GROSS)	1015.2 WHERE REQUIRED. GUARDS SHALL BE LO INCLUDING MEZZANINES, EQUIPMENT PLATFOR
EXERCISE	50 SF (GROSS)	LOCATED MORE THAN 30 INCHES MEASURED VI POINT WITHIN 36 INCHES HORIZONTALLY TO TH
STORAGE/MECHANICAL	300 SF (GROSS)	ICC-300 408.1(2) WHERE AN ELEVATION CHANGE
MINIMUM CORRIDOR HEIGHT SECTION 1003.2 - CORRIDORS AND ROOMS HEIGHT: 90) IN.	AISLE AND THE ADJACENT FLOOR OR GRADE BI AISLE FLOOR SHALL BE PROVIDED EXCEPTION: WHERE THE BACKS OF SEATS ON
IINIMUM EGRESS WIDTH FOR OCCUPANCY SERVED, NON		MORE ABOVE THE ADJACENT FLOOR OF THE AI
005.3.1 STAIRWAYS 005.3.2 OTHER EGRESS COMPONENTS	0.3 INCH PER OCCUPANT 0.2 INCH PER OCCUPANT	ICC-300 408.1(3) A GUARD SHALL BE PROVIDED I
BATTING CAGE BUILDNIG (A-3) 81 OCCUPANTS REQUIRES 25 INCH CLEAR WIDTH	171INCH CLEAR WIDTH PROVIDED	SHALL BE A MINIMUM OF 36 INCHES HIGH AND S DIAGONALLY BETWEEN THE TOP OF THE RAIL A
MINIMUM EGRESS WIDTH FOR SMOKE PROTECTED GRAN TAIRWAYS OTHER EGRESS COMPONENTS	IDSTAND PER ICC-300, TABLE 404.5(3) 0.08 INCH PER OCCUPANT 0.06 INCH PER OCCUPANT	ICC-300 408.1(4) UNLESS SUBJECT TO THE REQUESTED TO THE REQUEST. HEIGHT OF 26 INCHES SHALL BE PROVIDED WHITH THAN 30 INCHES ABOVE THE FLOOR OR GRADE WITH THE SIGHTLINES OF IMMEDIATELY ADJACE.
BASEBALL GRANDSTAND & PRESS BOX (A-5) 496 OCCUPANTS REQUIRES 40 INCH CLEAR WIDTH	300 INCH CLEAR WIDTH PROVIDED	1015.3 HEIGHT. REQUIRED GUARDRAILS SHALL
SOFTBALL GRANDSTAND & PRESS BOX (A-5) 408 OCCUPANTS REQUIRES 33 INCH CLEAR WIDTH	300 INCH CLEAR WIDTH PROVIDED	1015.4 OPENING LIMITATIONS. REQUIRED GUAR A SPHERE 4 INCHES IN DIAMETER FROM THE W.
		1017 EXIT ACCESS TRAVEL DISTANCE
ABLE 1006.3 -REQUIRED NUMBER OF EXITS OR ACCESS 1- 49 OCCUPANTS 0-500 OCCUPANTS	1 EXITS PER STORY 1 EXITS REQUIRED 2 EXITS REQUIRED	TABLE 1017.2 OCCUPANCY GROUP A
BATTING CAGE BUILDING (81 TOTAL OCCUPANTS)	2 EXITS PROVIDED	ICC-300, SECTION 404.4
C-300 -SECTION 404.1 - MINIMUM NUMBER OF EXITS @ G	GRANDSTANDS	8
250 OCCUPANTS	1 EGRESS EXIT(S) REQUIRED	1019 EXIT ACCESS STAIRS
51-750 OCCUPANTS	2 EGRESS EXIT(S) REQUIRED	1019.3 - FLOOR OPENINGS CONTAINING EXIT AC SHAFT ENCLOSURE CONSTRUCTED IN ACCORD
ASEBALL GRANDSTAND (496 TOTAL OCCUPANTS) UPPER GRANDSTAND LEVEL (282 OCCUPANTS) CONCOURSE GRANDRSTAND LEVEL (214 OCCUPANTS)	5 EXITS PROVIDED 2 EGRESS EXIT(S) REQUIRED S) 1 EGRESS EXIT(S) REQUIRED	1019.3 - EXCEPTION - 1 EXIST ACCESS STAI COMMUNICATE BETWEEN ONLY TWO STOR OPEN TO OTHER STORIES.
OFTBALL GRANDSTAND (408 TOTAL OCCUPANTS) UPPER GRANDSTAND LEVEL (262 OCCUPANTS) CONCOURSE GRANDRSTAND LEVEL (146OCCUPANTS	5 EXITS PROVIDED 2 EGRESS EXIT(S) REQUIRED 1 EGRESS EXIT(S) REQUIRED	NOTE SECTION 505.3 - STAIR SERVING THE THE MEANS OF EGRESS FROM THE BUILDIN

1009.2 CONTINUITY AND COMPONENTS. EACH REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE CONTINUOUS TO A PUBLIC WAY AND SHALL CONSIST OF ACCESSIBLE ROUTES, INTERIOR EXIT STAIRWAYS, EXIT ACCESS STAIRWAYS, ELEVATORS, PLATFORM LIFTS, HORIZONTAL EXITS,

RAMPS, AREAS OF REFUGE, AND EXTERIOR AREAS FOR ASSISTED RESCUE

	12	13		14		15		
		CHAPTER 10 (CONTIN	<u>UED)</u>					1
		1010 DOORS						
ASTM	E84 CLASSIFICATION	1010.1.1						
	CLASS A	MAXIMUM DOOR LEAF MINIMUM DOOR LEAF						
	CLASS B	MINIMUM CLEAR WIDT MINIMUM CLEAR HEIG						
	CLASS C	1010.1.10 DOORS SER	VING GROUP H AND	OCCUPANCIES 50+ I	N GROUP E AND A	ARE REQUIRED TO		
ENTS B	Y OCCUPANCY	PROVIDE PANIC AND F	FIRE EXIT HARDWAR	E.				
nne.	ROOMS AND	10.1.10 EXCEPTION 2 E	ELECTROMAGNETIC	LOCK IS ALLOWED IN	N ACCORDANCE WI	TH SECTION 1010.1.9.9		
ORS	ENCLOSED SPACES	1010.1.2.1 DIRECTION SERVING A ROOM OR						
~~~		1010.7 THRESHOLDS. FLOOR OR LANDING	THRESHOLDS AT DO	ORWAYS SHALL NO	T EXCEED 1/2 INCH	ABOVE THE FINISHED		
	REQUIRED (SECTION 905	PLUS THE WIDTH OF A	A DOOR SWINGING IN	NTO THE SPACE. DO	ORS IN A SERIES S	L BE 48 INCHES MINIMU HALL SWING EITHER IN	- 1	
REQ	UIRED (SECTION 906)	₹	DOOR HANDLES, PI BE ACCESSIBLE SH	ULLS, LATCHES, LOC ALL NOT REQUIRE T	KS, AND OTHER OF	PERATING DEVICES ON IGHT PINCHING, OR		
(ICC	REQUIRED -300 309.1, EXCEPTION 1)	1011 STAIRWAYS GRANDSTAND STAIR						
-	REQUIRED -300 309.1, EXCEPTION 1)	1011.3 HEADROOM HE			MIN 80 INCH	<del>I</del> ES		
	REQUIRED CTION 907.2.1, @ 81 OCC.)	1011.5.2 RISERS AND T TREADS RISERS	TREAD DIMENSIONS		4" MIN TO 7	" W/ NOSING PROVIDED " MAX (8" MAX ALLOWED		
_	REQUIRED -300 309.1, EXCEPTION 1)	1011.6 STAIRWAY LAN	DINGS	(STAIR		0 SECTION 406) NTERMEDIATE LANDING	GS)	
	REQUIRED -300 309.1, EXCEPTION 1)	1013 EXIT SIGNS						
NOT	REQUIRED CTION 907.2)	1013.1 WHERE REQUIF OR EXIT PASSAGEWA WHICH EVER IS LESS	AY IS MORE THAN 100	OFEET OR THE LISTE		IT IN AN EXIT CORRIDOF NCE FOR THE SIGN,	R	
	UIRED (SECTION 1029.6.2. D IN PRESS BOXES AND EA.	EXCEPTION 1. EXIT SINE	GNS ARE NOT REQU	IRED IN ROOMS OR A	AREAS THAT REQU	IIRE ONLY ONE EXIT OR	<b> </b>	
QUIREI	O IN OUTDOOR SEATING	1014 HANDRAILS						
RESS II	N THE SEATING AREA ARE	1014.2 HEIGHT. HANDF LESS THAN 34 INCHES			READ NOSING SHA	ALL BE UNIFORM, NOT		
		1014.3 HANDRAILS TYI DIAMETER OF NOT LE				AVE AN OUTSIDE	l	J
SQUAF	RE FEET PER PERSON	₽						

1014 HANDRAILS			
1014.2 HEIGHT. HANDRAIL HEIGHT, MEASURED ABO LESS THAN 34 INCHES AND NOT MORE THAN 38 INC	OVE STAIR TREAD NOSING SHALL BE UNIFORM, NOT CHES		
1014.3 HANDRAILS TYPE I. HANDRAILS WITH CIRCU DIAMETER OF NOT LESS THAT 1 1/4 INCHES AND N		USE CLAS	SIFIC
1014.7 CLEARANCE. CLEAR SPACE BETWEEN A HAI LESS THAN 1 1/2 INCHES	NDRAIL AND A WALL OR OTHER SURFACE SHALL BE NOT	(A) ASSEM	ЛВLY (
1015 GUARDS			
1015.2 WHERE REQUIRED. GUARDS SHALL BE LOC/ INCLUDING MEZZANINES, EQUIPMENT PLATFORMS LOCATED MORE THAN 30 INCHES MEASURED VERT POINT WITHIN 36 INCHES HORIZONTALLY TO THE E	S, AISLES, STAIRS, RAMPS, AND LANDINGS THAT FICALLY TO THE FLOOR OR GRADE BELOW AT ANY	OCCUPAN GROUF	
AISLE AND THE ADJACENT FLOOR OR GRADE BELC AISLE FLOOR SHALL BE PROVIDED	F 30 INCHES OR LESS OCCURS BETWEEN A CROSS DW, GUARDS NOT LESS THAN 26 INCHES ABOVE THE E FRONT OF THE CROSS AISLE PROJECT 24 INCHES OR E A GUARD NEED NOT BE PROVIDED	ARCHITECT METHOD: EXISTING SEA' (+/- 540 SEATS	.TS
	R THE FULL WIDTH OF AN AISLE WHERE THE LOWEST OVE THE FLOOR OR GROUND BELOW. THE GUARD ILL PROVIDE A MINIMUM 42 INCHES MEASURED	DEMOLISHED SEATS (REMOVE 108 SEATS) NEW SEATS (ADD 904 SEAT	TS)
HEIGHT OF 26 ÍNCHES SHALL BE PROVIDED WHERI	EMENTS OF ICC-300 408.1(3), A GUARD WITH A MINIMUM E THE FLOOR OR FOOTBOARD ELEVATION IS MORE LOW AND THE GUARD WOULD OTHERWISE INTERFERE T SEATING.	CALCULATED TOTAL FOR A SPORT FIELD FACILITYWITH WORK: 1336 SI	"5" I NEW
1015.3 HEIGHT. REQUIRED GUARDRAILS SHALL NO	T BE MORE THAN 48 INCHES HIGH		
	SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF KING SURFACE TO THE REQUIRED GUARDRAIL HEIGHT.		
1017 EXIT ACCESS TRAVEL DISTANCE		PLUMBII	
TABLE 1017.2	MANUTRANIEL BIOTANIOS TO SVIT. 050 ST		E OCC (TURE:
OCCUPANCY GROUP A	MAX TRAVEL DISTANCE TO EXIT = 250 FT		W GYN INALS
ICC-300, SECTION 404.4	MAX TRAVEL DISTANCE TO PERIMETER SEATING STRUCTURE OS 400 FT	OC	CUPA
1019 EXIT ACCESS STAIRS			SECT MILY /
1019.3 - FLOOR OPENINGS CONTAINING EXIT ACCE SHAFT ENCLOSURE CONSTRUCTED IN ACCORDAN	SS STAIRWAYS OR RAMPS SHALL BE ENCLOSED WITH A CE WITH SECTION 713.		CILITIE UNISE:
	/AYS AND RAMPS THAT SERVE OR ATMOSPHERICALLY S. SUCH INTERCONNECTED STORIES SHALL NOT BE		
NOTE SECTION 505.3 - STAIR SERVING THE E	QUIPMENT PLATFORM SHALL NOT SERVE AS A PART OF		

CHAPTER 10 (CONTINUED)  1020 CORRIDORS: TABLE 1020.1. REQUIRED FIRE RESISTANCE RATING GROUP A	(NOT APPLICABLE TO PROJECT)  1 HOURS (NON-SPRINKLER)	P OF AITS ARCHITECTURE
TABLE 1020.2 MINIMUM CORRIDOR WIDTH. ANY FACILITY NOT LISTED WITH AN OCCUPANT LOAD OF LESS THAN 50 ACCESS TO MEP EQUIPMENT	44 INCHES 36 INCHES 24 INCHES	* 2413 * *
ICC-300, SECTION 405.2 MINIMUM STAIR AND MEANS OF EGRESS A SEATING ON ONE SIDE SEATING ON BOTH SIDES	ISLE WIDTH 36 INCHES 48 INCHES	FRED ARCH
ICC-300, SECTION 407.2 MINIMUM SEATING AISLE CLEAR WIDTH	12 INCHES	ORANGE BEACH SPORT

MAXIMUM DEAD IN CORRIDORS NOT TO EXCEED

ICC-300, SECTION 407.4.1 PATH OF EGRESS TRAVEL

FOR ROWS OF SEATING SERVED BY ONE PATH OF EGRESS TRAVEL COMMON PATH OF EGRESS

A PERSON HAS A CHOICE OF TWO PATHS OF EGRESS TRAVEL TO TWO EXISTS.

BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN

ACCORDANCE WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ADOPTED IBC.

1105.1 PUBLIC ENTRANCES. AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE

BASED ON TABLE 2902.1, THE CALCULATED LOAD OF AREAS CAN BE BASED ON ACTUAL ANTICIPATED

*** BASED ON THE NEW PROJECT OCCUPANT LOAD THE EXISTING FACILITY WOULD INCREASE THE SEATING AREA OF BY ROUGHLY ARCHITECT HAS REVIEWED THE DESIGN OF THE NEW GRANDSTAND

USE FOR THE DETERMINATION OF PLUMBING FIXTURES ONLY. (SECTION 1004.1.1)

CLOSETS

1 PER 45

14.9

1. SEE OCCUPANCY COUNT PER OCCUPANCY USE ON G1.1 - TOTAL OCCUPANCY FOR PLUMBING

3. FAMILY / UNISEX TOILETS REQUIRED WHEN AN AGGREGATE OF 6 OR MORE ASSEMBLY TOILET

FACILITIES ARE REQUIRED (SECTION 1109.2.1) - NOT APPLICABLE

FIXTURES IS BASED ON THE COMBINED OCCUPANTS FOR THE EXISTING RECREATION CENTER AND

2. URINALS MAY BE USED FOR UP TO 67% OF THE WATER CLOSETS IN ASSEMBLY AND EDUCATIONAL OCCUPANCIES. OTHERWISE URINALS MAY BE USED FOR UP TO 50% OF THE WATER CLOSETS (2015

4. *1 UNISEX WATERCLOSET AND LAVATORY FIXTURES COUNTED WITHIN WOMEN PLUMBING QUANTITY

3.34

1 PER 75

TRAVEL SHALL NOT EXCEED 50FT IN A SMOKE PROTECTED ASSEMBLY FROM ANY SEAT TO WHERE

20 FEET

REQUIRED

FEMALE | FOUNTAINS | SINK

DRINKING

1.34

DRINKING SERVICE

OUNTAINS SINKS

LAVATORIES

**CHAPTER 11** 

**ACCESSIBILITY** 

PLUMBING SYSTEMS

USE CLASSIFICATION

(A) ASSEMBLY (A-5)

**EXISTING &** 

NEW

LOAD

1336

668 M 668 F

**EXISTING** 

**FIXTURES** 

PLUMBING COMMENTS AND NOTATIONS:

NEW GYM ADDITION.

IPC SECTION 424.2)

PROVIDED

OCCUPANCY

AND BATTING CAGE FACILITY

IN ORANGE BEACH SPORTSPLEX **RENOVATION TO BASEBALL** AND SOFTBALL COMPLEX



CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA

CITY OF ORANGE BEACH PO BOX 458 ORANGE BEACH, ALABAMA 36561 251-981-69792 ATTN: KEN GRIMES, JR.

ASSOCIATE ARCHITECT MCCOLLOUGH ARCHITECTURE 4790 MAIN ST #209, ORANGE BEACH, AL 36561 251-968-7222 ATTN: STED MCCOLLOUGH

ARCHITECT DAVIS ARCHITECTS, INC. 120 23RD STREET SOUTH BIRMINGHAM, AL 35233 205-322-7482 ATTN: JIM HARTSELL / JEFFREY MENASCO

**CIVIL ENGINEER** SAWGRASS CONSULTING, LLC 11143 OLD HIGHWAY 31 SPANISH FORT, AL 36527 251-544-7900 ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

STRUCTURAL ENGINEER MBA ENGINEERS 300 20TH ST. N., SUITE 100 BIRMINGHAM, AL 35203 205-323-6385 ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER GULF STATES ENGINEERING 600 AZALEA ROAD, MOBILE, AL 36609

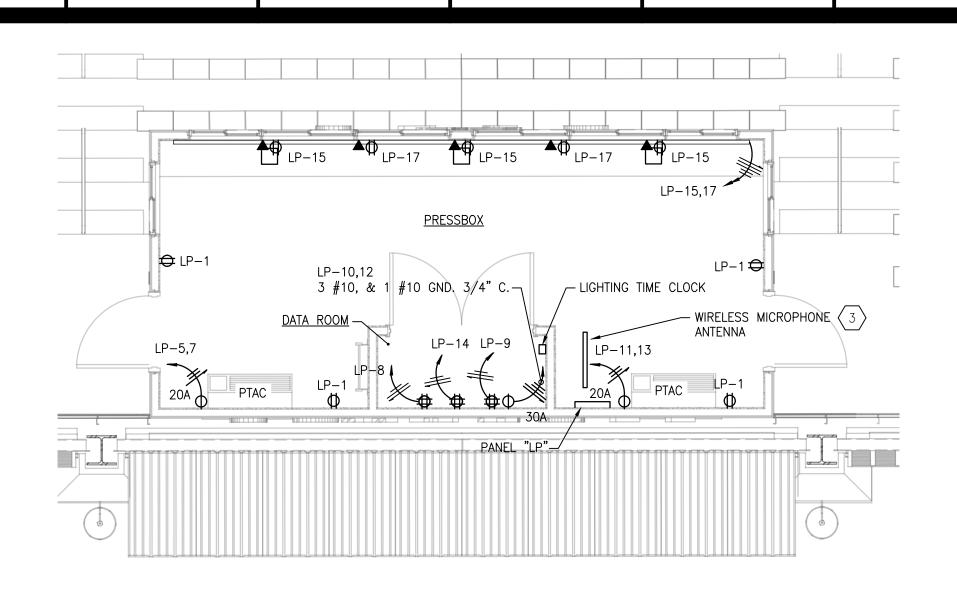
251-460-4646 ATTN: CHRIS DEARMON / VAN SIMPSON **ELECTRICAL ENGINEER** GULF STATES ENGINEERING 600 AZALEA ROAD,

MOBILE, AL 36609 251-460-4646 ATTN: JERRY ONWU / SID SNYDER

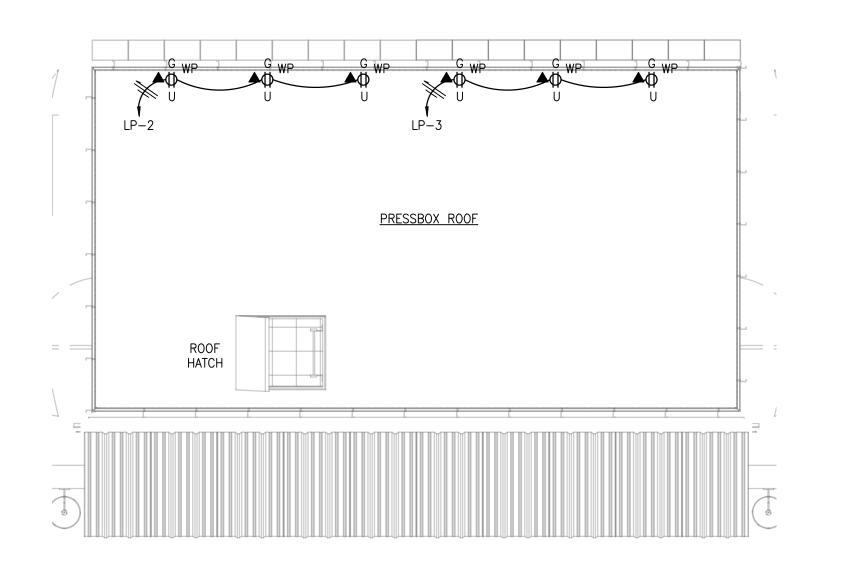
2 6 - 18 - 2020 ADDENDUM #2

5-04-2020 100% BID DOCUMENTS DAVIS ARCHITECTS CODE STUDY

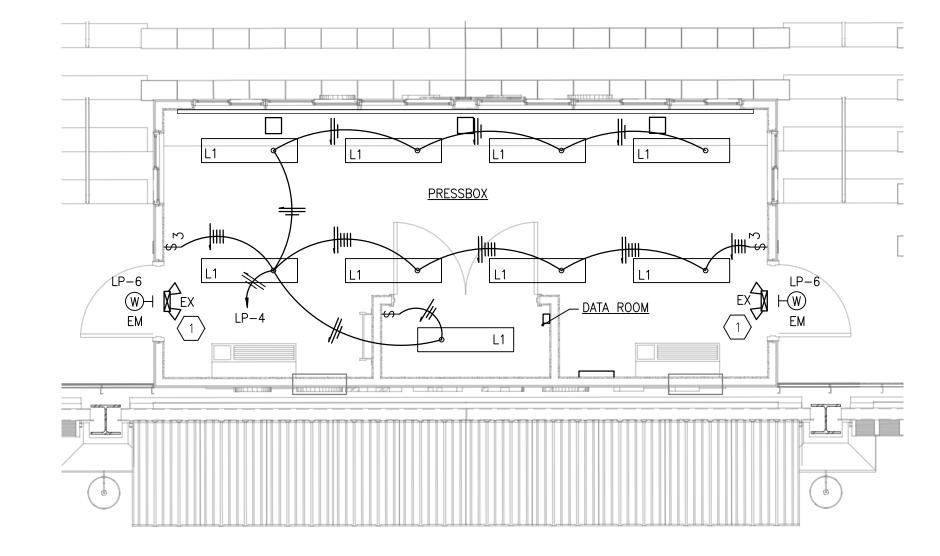
LS001



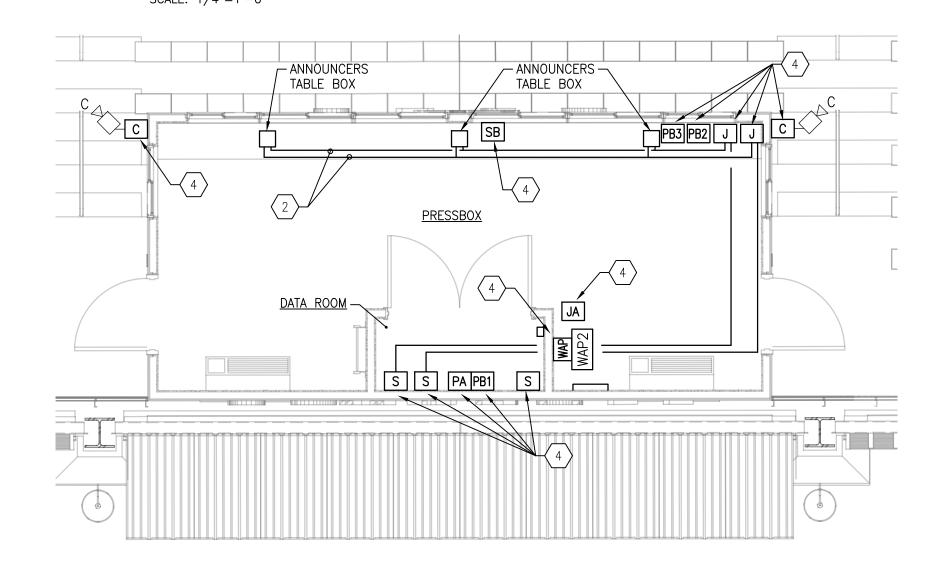
# **POWER PLAN**



# **ROOF POWER PLAN**



# LIGHTING PLAN



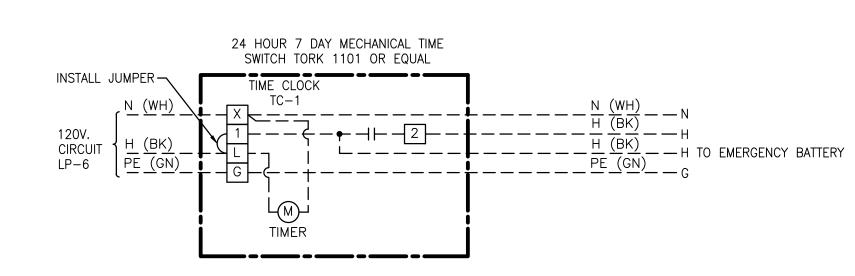
# SYSTEMS PLAN

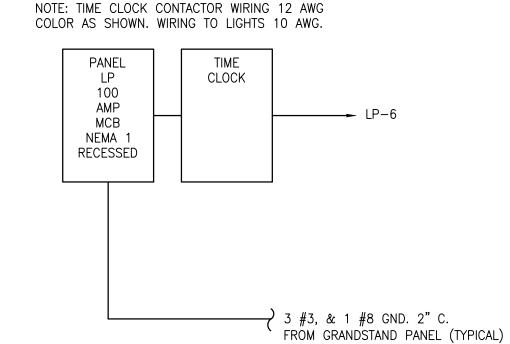
# **KEYED NOTES:**

- CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS TO UNSWITCHED LIGHTING CIRCUIT THAT SERVES THE LIGHTING FIXTURES LOCATED IN THE SAME ROOM.
- $\langle 2 \rangle$  3/4" CONDUIT RUN UNDER CONCEALED COUNTER FROM EACH ANNOUNCERS
- TABLE BOX TO JUNCTION BOX "J" AS SHOWN W/PULLSTRING. 3 COORDINATE HEIGHT OF ANTENNA WITH ARCHITECT PRIOR TO INSTALLATION.
- 4 PULL OR JUNCTION BOX PROVIDED WITH PREFABRICATED PRESSBOX FOR ITEMS igsquare installed after pressbox installation. See pull/junction box legend this drawing.

### **GENERAL NOTES**

- 1. ANY ROOF PENETRATIONS MUST BE SEALED PER THE PRESSBOX AND ROOF MEMBRANE MANUFACTURERS RECOMMENDATIONS TO MAINTAIN WATER TIGHT CONDITIONS.
- 2. ALL BRANCH CIRCUIT WIRING IS COPPER MINIMUM #12 THHN ENCASED IN EMT CONDUIT, OR MC CABLE.
- 3. THE PRESSBOX IS PREFABRICATED AND DELIVERED TO SITE.
- 4. ALL CAT6 CABLES TO BE INSTALLED FROM PRESSBOX COUNTER TO DATA ROOM.





# RISER DIAGRAM SCALE: NONE

Ul	_L/J	UN	CTI	ON	В	OX	LEC	SEN

- P.A. RACK 24"x24"x6" RECESSED PULL BOX, MOUNTED 12" AFF. W/ (1) 3/4" EMT CONDUIT TO EACH CAMERA PULL BOX W/ (1) 1 1/4" EMT CONDUIT TO EACH SCOREBOARD PULL BOX W/ (1) 2" EMT CONDUIT TO PB1 PULL BOX W/ (1) 3/4" EMT CONDUIT TO EACH CAMERA PULL BOX W/ (2) 3/4" EMT CONDUIT TO LOW VOLTAGE SIDE OF WIREMOLD W/ (1) 3/4" EMT CONDUIT TO EACH WAP PULL BOX W/ (1) 3/4" EMT CONDUIT TO EACH SPEAKER PULL BOX
- PB1 PULL BOX 8"x8"x8" PARTIALLY RECESSED PULL BOX UNDER FLOOR W/ (1) 2" EMT CONDUIT TO P.A. RACK
- PULL BOX 8"x8"x8" PARTIALLY RECESSED PULL BOX UNDER FLOOR W/ (1) 2" EMT CONDUIT TO P.A. RACK
- FLOOR W/ (1) 2" EMT CONDUIT TO P.A. RACK SCOREBOARD PULL BOX 4"x4"x4" SURFACE MOUNTED PULL BOX

PB3 PULL BOX 8"x8"x8" PARTIALLY RECESSED PULL BOX UNDER

- UNDER WIREMOLD W/ (1) 1" EMT CONDUIT TO P.A. RACK CAMERA JUNCTION BOX 4"x4"x2 1/8" PULL BOX W/SINGLE RAISED COVER, MOUNTED BELOW SOFFIT W/ (1) 3/4" EMT
- CONDUIT TO P.A. RACK WAP JUNCTION BOX 4"x4"x2 1/8" PULL BOX W/ROUND RAISED COVER, MOUNTED IN PRESS BOX CEILING W/ (1) 3/4" EMT CONDUIT TO P.A. RACK PULL BOX
- SPEAKER JUNCTION BOX 2"x4" WEATHER PROOF PULL BOX UNDER PRESSBOX W/ (4) 1" EMT CONDUIT TO P.A. RACK PULL
- JUNCTION BOX 4"x4" BOX UNDER COUNTER W/ (2) 1" EMT CONDUIT TO SPEAKER PULL BOX. IN DATA ROOM.
- JUNCTION BOX 4"x4" BOX IN CEILING W/ (1) 3/4" EMT CONDUIT TO SPEAKER PULL BOX. IN DATA ROOM. FOR ANTENNA.

1. PREFABRICATED BUILDING MANUFACTURER TO PROVIDE THE FOLLOWING PENETRATIONS

- FOR INTO PRESSBOX DATA ROOM IN AN ACCESSIBLE LOCATION TO ALLOW CONNECTIONS (1) EACH 2" CONDUIT - POWER.
- (2) EACH 2" CONDUIT DATA. (4) EACH 1" CONDUIT - SOUND. (8) EACH 1" CONDUIT - CAMERA.
- (2) EACH 1" CONDUIT WIRELESS ACCESS POINT. (1) EACH 1 1/4" CONDUIT - SCOREBOARD CONTROLS
- 2. PREFABRICATED BUILDING MANUFACTURER TO PROVIDE (4) EACH SPARE 3/4" CONDUITS FROM DATA ROOM TO PRESS BOX "OFFICIALS COUNTER" WITH PULLSTRING.
- 3. PROVIDE PUNCH DOWN BLOCKS IN DATA ROOMS AND PUNCH DOWN ALL CAT6E CABLES. 4. THE AV INSTALLER TO PROVIDE ONE RJ-45 NETWORK CONNECTION AT EACH ANNOUNCER'S BOX FOR THEIR
- CONVENIENCE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL (1) CAT6E CABLE TO DATA ROOM.

^^^^^

LOCATION	LOAD (VA)	CIRCUIT NUMBER			CIRCUIT NUMBER	LOAD (VA)	LOCATION
			L1	L2   N G	;		
			100 AMP MAIN CB		D -		
RECEPTACLES: PRESSBOX	720	1	20A	20/	2	540	RECEPTACLES: PRESSBOX ROOF
RECEPTACLES: PRESSBOX ROOF	540	3	20A	20/	4	342	LIGHTING: PRESSBOX
RECEPTACLE: PTAÇ UNIT	1750	5	20A	20/		40	LIGHTING: EXTERIOR
<b>,</b>	1750	7		20/		360	RECEPTACLES: DATA ROOM
RECEPTACLES: DATA ROOM	360	9	20A	30/	10	2000	RECEPTACLE: DATA ROOM
RECEPTACLE: PTAÇ UNIT	1750	11	20A	<b>—</b>	_ 12	2000	<b>+</b>
<b>,</b>	1750	13		20/	14	360	RECEPTACLES: DATA ROOM
WIREMOLD	1200	15	20A	20/			SPARE
WIREMOLD	1200	17	20A	20/			SPARE
SPARE	•	19	20A	20/	20		SPARE
SPARE	•	21	20A	20/	22		SPARE
SPARE	•	23	20A	20/	24		SPARE
SPARE	•	25	20A	20/			SPARE
SPARE	•	27	20A	20/	28		SPARE
SPARE	•	29	20A	20/	30		SPARE
SPARE	•	31	20A	20/	32		SPARE
SPARE	٠	33	20A	20/		٠	SPARE
SPARE	•	35	20A	20/	36		SPARE
SPARE	•	37	20A	20/			SPARE

120/240 PANEL LP

PANEL	PANEL LOCATION: PRESS BOX								
LIG	HTING FIXTURE SCHEDULE								
MARK	TYPE	VOLT	WATTS	LAMP	BRAND & CATALOG NO.				
L1	1x4 FOOT SURFACE MOUNTED LED FLAT PANEL	120	45	3700 LUMEN	SATCO				

	EIGHTING FIXTORE GOHEDULE							
MARK	TYPE	VOLT	WATTS	LAMP	BRAND & CATALOG NO.			
L1	1x4 FOOT SURFACE MOUNTED LED FLAT PANEL	120	45	3700 LUMEN 3000K	SATCO 45/LED/1X4/SURFACE/3K/WH			
EX	EXIT SIGN W/EMERGENCY BATTERY	120	5	AS SUPPLIED .	LITHONIA ECR-REM-LED AND ERE-SLG-WP			
W	EXTERIOR RECESSED LIGHT .	120	7	400 LUMEN 4000K	SATCO S9014 4"			

"NL" INDICATES NIGHT LIGHT, UNSWITCHED.

TOTAL CONNECTED LOAD: 17 KW

- 1. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM. 2x4 TROFFERS SHALL BE SUPPORTED WITH CABLE FROM ALL FOUR CORNERS.
- 2. FOR HOME RUNS ON 20 AMP CIRCUITS EXCEEDING SEVENTY FIVE (75) FEET FROM THE PANEL BOARD, USE #10 AWG MIN. 3. ALL MOUNTING HEIGHTS ARE GIVEN TO THE BOTTOM OF THE
- DEVICE UNLESS NOTED OTHERWISE. 4. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT
- PRIOR TO INSTALLATION. 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL
- SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES. 6. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED.
- CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

7. BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL

8. GROUND TELEPHONE EQUIPMENT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM PER N.E.C.

9. ALL CIRCUIT BREAKERS IN PANEL SHALL BE FULLY RATED

- 10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE ELECTRICAL SERVICE ARRANGEMENTS WITH THE LOCAL POWER COMPANY AND WITH OWNER SUPPLIED SITE PLAN. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION.
- 11. CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL UTILITY. E.C. SHALL COORDINATE WITH LOCAL UTILITY BEFORE STARTING WORK.
- 12. ALL BUILDING SYSTEM GROUND RODS SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING SYSTEM. GROUNDING SYSTEM SHALL COMPLY WITH N.E.C. ARTICLE 250.
- 13. THE WORD "PROVIDE" MEANS FURNISH AND INSTALL.
- 14. MC CABLE IS ALLOWED AS A VE ALTERNATE.
- 15. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- 16. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FITTINGS AND NECESSARY EQUIPMENT FOR LIGHT FIXTURE MOUNTING, AND INSTALLATION.
- 17. ALL FIRE BARRIER PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE SEALANT. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL RATED WALLS AND CEILINGS PRIOR TO BID SO AN UNDERSTANDING OF NUMBER OF SEALS REQUIRED, AND DETERMINE METHOD FOR MINIMIZING THE SEAL REQUIREMENTS.

### **ELECTRICAL DEVICE NOTES:**

- 1. ALL DEVICE COLORS SHALL BE GRAY.
- 2. ALL FACEPLATES TO BRUSHED STAINLESS STEEL.
- 3. ALL DEVICES SHALL BE MOUNTED IN BOXES, AND ALL EXTERIOR BOXES SHALL BE WATER TIGHT.
- 4. ALL EMPTY EXTERIOR BOXES SHALL HAVE WATER TIGHT COVERPLATES.

# APPLICABLE ELECTRICAL CODE: NFPA 70 2017 NATIONAL ELECTRIC CODE.

### <u>LEGEND</u>

- PASS AND SEYMOUR DUPLEX RECEPTACLE, GRAY COLOR, 20 AMP, 125V. TAMPER PROOF HEAVY DUTY. MTD. @ 16" A.F.F.
- UNLESS NOTED, WITH BRUSHED STAINLESS STEEL FACEPLATE. PASS AND SEYMOUR DUPLEX RECEPTACLE, GRAY COLOR,- 20 AMP, 125V. TAMPER PROOF. WITH USB CHARGING PORTS, MTD. @ 16" A.F.F.

ALL BRANCH BREAKERS SIZED AS SHOWN

 $\Phi_{\mathsf{G}}^{\mathsf{WP}}$  pass and seymour weather resistant, gray color, duplex receptacle — tamper proof with ground fault interrupt, MTD. @ 16" A.F.F. UNLESS NOTED, WITH WEATHER-PROOF IN USE COVER.

UNLESS NOTED, WITH BRUSHED STAINLESS STEEL FACEPLATE.

- PASS AND SEYMOUR, GRAY COLOR, DUPLEX RECEPTACLE -TAMPER PROOF WITH GROUND FAULT INTERRUPT, MTD. @ 16" A.F.F. UNLESS NOTED, WITH BRUSHED STAINLESS STEEL FACEPLATE.
- "C" INDICATES DEVICE MOUNTED @ 2" ABOVE BACKSPLASH UNLESS
- C NOTED, COORDINATE IN FIELD. 240V SIMPLEX RECEPTACLE, GRAY COLOR, MTD. AS REQUIRED BY  $\Psi_{\mathsf{XXA}}$  equipment being served, coordinate in field, with brushed
- STAINLESS STEEL FACEPLATE. AMPERAGE AS NOTED. SPECIFICATION GRADE 20A-1P TOGGLE SWITCH, HEAVY DUTY, GRAY COLOR,
- MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS STEEL FACEPLATE. \$\delta 3 \quad \text{SPECIFICATION GRADE 20 AMP THREE WAY TOGGLE SWITCH, HEAVY} DUTY, GRAY COLOR, MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS STEEL FACEPLATE.
- 120V, 20AMP MOTOR RATED TOGGLE SWITCH, WITH LOCKING DEVICE.
- \$0 SPECIFICATION GRADE WALL MOUNTED OCCUPANCY SWITCH GRAY COLOR, MOUNTED @ 48" A.F.F. W/BRUSHED STAINLESS STEEL FACEPLATE. LUTRON MSOPSS5MLA.
- VOICE/DATA OUTLET, GRAY COLOR, MOUNTED @ 16" A.F.F. WITH BRUSHED STAINLESS STEEL FACEPLATE. MTD. @ 16" A.F.F. UNLESS NOTED. RUN (2) CAT 6 CABLES FROM OUTLET TO DATA ROOM.
- COMPUTER DATA OUTLET, GRAY COLOR, BOX MTD @ 16" A.F.F. UNLESS NOTED FLUSH MOUNTED 1 GANG WALL BOX. CONTRACTOR TO RUN (2) CAT 6 CABLES FROM OUTLET TO DATA ROOM.
- EXHAUST FAN
- JUNCTION BOX LOCATION MOUNTED AS NOTED ON DRAWING, SIZED AS REQUIRED BY EQUIPMENT BEING SERVED.
- DISCONNECT SWITCH, SIZE AND TYPE AS NOTED.
- HOME RUN CONDUIT, CIRCUIT NUMBER AS INDICATED ON DRAWINGS, HASHMARKS INDICATE HOT NEUTRAL AND GROUND.
- ---- CONDUIT RUN IN FLOOR OR SLAB.
- CONDUIT RUN IN WALLS OR CEILING. WIRELESS ACCESS POINT, WALL MOUNTED AT 11'-4". POE (POWER OVER ETHERNET) RUN (1) CAT 6 CABLE FROM WAP TO DATA ROOM. WIREMOLD 5400 SERIES (IVORY) W/RECEPTACLES AND AND DATA OUTLETS
- 48" O.C. AND 1" CONDUIT THRU FLOOR AT END 14" CD SECURITY CAMERA WITH CONCEALLED CONDUIT AND JUNCTION BOX SURFACE MOUNTED, POE (POWER OVER ETHERNET) RUN 3/4" C. WITH (1) CAT 6 CABLE FROM CAMERA TO DATA ROOM.

MOUNT CAMERA AT 19'-0" AFF, UNLESS NOTED OTHERWISE.

ALL CONDUIT TO CONCEALED, NO EXPOSED CONDUIT ALLOWED.

DAVIS ARCHITECTS

SHEET TITLE PRESS BOX ELECTRICAL PLANS

DATE DESCRIPTION

06-18-2020 ADDENDUM #2

05-04-2020

100% BID DOCUMENTS

**ORANGE BEACH SPORTSPLEX** 

RENOVATION TO BASEBALL

AND SOFTBALL COMPLEX

CITY OF ORANGE BEACH:

ORANGE BEACH, ALABAMA

CITY OF ORANGE BEACH

ATTN: KEN GRIMES, JR.

**ASSOCIATE ARCHITECT** MCCOLLOUGH ARCHITECTURE

ATTN: STED MCCOLLOUGH

DAVIS ARCHITECTS, INC.

120 23RD STREET SOUTH BIRMINGHAM, AL 35233

SAWGRASS CONSULTING, LLC

ATTN: JIM HARTSELL / JEFFREY MENASCO

ATTN: ERCIL E. GODWIN / DOUG CHAFFIN

4790 MAIN ST #209, ORANGE BEACH, AL 36561

251-968-7222

ARCHITECT

205-322-7482

**CIVIL ENGINEER** 

251-544-7900

MBA ENGINEERS

600 AZALEA ROAD,

600 AZALEA ROAD,

MOBILE, AL 36609

251-460-4646

**ELECTRICAL ENGINEER** 

GULF STATES ENGINEERING

ATTN: JERRY ONWU / SID SNYDER

MOBILE, AL 36609

251-460-4646

205-323-6385

11143 OLD HIGHWAY 31

SPANISH FORT, AL 36527

STRUCTURAL ENGINEER

300 20TH ST. N., SUITE 100

**GULF STATES ENGINEERING** 

ATTN: KEITH OWENS / MARK BOGER

MECHANICAL / PLUMBING ENGINEER

ATTN: CHRIS DEARMON / VAN SIMPSON

BIRMINGHAM, AL 35203

251-981-69792

ORANGE BEACH, ALABAMA 36561

E302

SCALE: 1/4" = 1'-0"

