CHATHAM COUNTY PURCHASING DEPARTMENT ADDENDUM NO. 2 TO ITB # 17-0074-4

FOR: MEMORIAL STADIUM

PLEASE SEE THE FOLLOWING ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

- 1. PLEASE NOTE THE BID OPENING <u>HAS BEEN EXTENDED</u> TO 2:00PM, SEPTEMBER 26, 2017.
- 2. RESPONSES TO SUBSTITUTION REQUESTS AND CLARIFICATIONS ARE CONTAINED WITHIN THIS ADDENDUM.

PROPOSER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES.

September 8, 2017

DATE

MARĞARET H. JOYNER
PURCHASING DIRECTOR
CHATHAM COUNTY

MEMORIAL STADIUM ITB #17-0074-4

ADDENDUM NO. 2

September 7, 2017

FROM: CHATHAM COUNTY PURCHASING & CONTRACTING DIVISION

1117 Eisenhower Drive, Suite C

Savannah, GA 31406

TO: To All Prime Contract Bidders

This Addendum forms a part of the Contract Documents and modifies the original Invitation to Bid. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so shall subject Bidder to disqualification.

CHANGES TO THE INVITATION TO BID:

1. **Bids Due:** Date is extended to **Tuesday, September 26, 2017 at 2:00PM** at the Chatham County Purchasing and Contracting Division, 1117 Eisenhower Drive, Suite C, Conference Room, Savannah, GA 31406.

SUBSTITUTION REQUESTS:

2. <u>Request</u>: Attached is proposal for an additional synthetic turf system (Xtreme Turf F from ACT Global).

<u>Answer</u>: Not approved. Proposed pile height does not meet specifications and no alternate cooling infill material proposed.

3. Request: GE - Momentive Performance Materials, Inc. would like to propose a substitution request (GE ELEMAX 2600 AWB) as an alternate to Tremco, ExoAir 230 currently specified for coatings.

Answer: Approved

4. Request: We would like to submit the following light fixtures for prior approval on this project.

| <u>i ype</u> | MFG | <u>Part</u> |
|--------------|-------------------------|----------------------------------------------|
| Н | Flex Lighting Solutions | CL1S-A-20K-40-WIDE-CL-LV-STEM-10V-PROLV + |
| | | CL1-120R + SAFETYCABLE |
| N1 | NLS Lighting | CAL-1-TP1-S1-T3-32L-7-40K-UNV-AMBRZ + A18-L- |
| | | WM-BRZ-CAL1 |
| U1 | Targetti USA | KPLM-ND-ZM-L2-40 + 1DU2525B + 1DU2521 + |
| | | 1DU2530 |
| U1 | Targetti USA | KPL-ND-WW-L2-40 + 1DU2325BA + 1DU2394 + |
| | _ | 1DU2530 |
| U2 | Targetti USA | KPL-ND-ZM-L2-40 + 1DU2325BA + 1DU2394 + |
| | | 1DU2530 |
| | | |

Answer: Approved

CLARIFICATIONS:

5. <u>Question</u>: We are planning to bid and have obtained the monument drawings from CDR but those drawings do not show the foundation requirements for the new "Wing Monument". Will need those to continue.

<u>Answer</u>: Drawing S-601 shows the foundation for the Wing Monument.

6. Question: Sheet A-204 and A-205 depict elevations of the rear and sides of the both home and visitors grandstands where the structural steel is intended to laterally support the masonry wrap and masonry closure walls. Spec section 131250 – 1.4 Performance requirements, paragraph B. requires the grandstand manufacturer to accept loads placed on the steel by the masonry work when making his calculations for the structural steel. To prevent long term damage to the masonry façade, the structural steel provided by the grandstand manufacturer must perform to a higher standard than the typical H/200 (height/200). The International Masonry Institute [IMI] generally recommends a lateral deflection limit of either H/480 or H/600 for the structure that supports masonry façade. Please provide lateral deflection limit performance criteria that grandstand structural steel must satisfy. The intent of this request is to insure the structural steel is properly designed to limit movement, will support the masonry and to prevent future damage to the masonry.

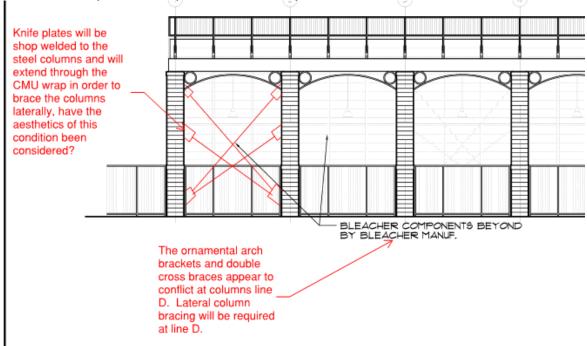
<u>Answer</u>: Use H/480 for the lateral deflection (drift) of any steel members that are bracing masonry.

- 7. <u>Question</u>: It is requested that the grandstand structural steel that supports masonry over the openings shown on Sheet A-204 and A-205 be designed for a vertical deflection limit of SPAN/600 or 3/8" max (as recommended by IMI). Please confirm. <u>Answer</u>: Use L/600 deflection with a maximum deflection of 3/8" for any steel members supporting masonry.
- 8. Question: Please identify which trade is responsible to design and certify the masonry ties that attach the CMU wrap to the grandstand structural steel columns shown on the rear elevation drawings (A204 and A205)?

 Answer: This is for the Contractor to decide.
- 9. Question: Sheet A-204 and A-205 indicates that there will be no cross bracing allowed on grandstand structural steel on column line E. If there is no cross bracing allowed on column line E, the structural steel design will need to include moment connections. Please confirm moment connections are acceptable. Answer: Moment Frames are acceptable at Line E
- 10. Question: (A) Sheet A-204 and A-205 indicates that there will be cross bracing allowed on grandstand structural steel on column line D. The point of attachment of this cross bracing appears to occur at or just below the arch bracket shown on sheet A-501 detail 09. Detail 09/A-501 depicts the arch brackets attaching to the masonry wrap that surrounds the grandstand structural steel columns. The point of attachment of the cross bracing will require a steel stab plate that is welded to the steel column and that will penetrate the masonry wrap at a seam in the masonry wrap. There appears to be a need to de-conflict the cross bracing stab plate and the arch bracket required on column line D shown on sheet A-501 detail 09. In order to insure that the column line D cross bracing stab plate and arch bracket de-conflict it is requested that the arch bracket be

supported and be attached to the grandstand horizontal structural steel beam above and not attached to the masonry wrap. This change would eliminate several penetrations into the masonry wrap and allow for a single entity [the grandstand manufacturer] to ensure that the cross bracing stab plate and the arch bracket do not conflict with one another. Additionally, if the arch bracket is in the steel package of the grandstand manufacturer, the finish on the steel arch bracket would be of similar quality to the structural steel finish on the grandstand. The intent of this request is to remove an unnecessary coordination event between different sub-contractors, and to ensure the arch bracket is properly designed, properly located, properly installed, structurally supported and has a similar high quality finish as does the grandstand structural steel. Additionally, assigning the arch brackets to the grandstand manufacturer will allow prefabrication and exact location determination. If the arch brackets are attached to the masonry wrap, the masonry wrap would be constructed first and then surveyed before the arch brackets could be dimensioned and fabricated. This could impact the schedule and cause rework. Please provide guidance on the arch bracket design/cross brace design and manufacturing responsibility.

(B) Column line D will need to be braced laterally, and the double cross braces shown on A204 and A205 may interfere with the location of the arch brackets (this conflict could be avoided more easily if the brackets are added to the grandstand scope of work per the previous RFI). Further, the lateral bracing must be affixed directly to the grandstand support column using a knife plate which will extend through the CMU wrap. Please confirm that the project teams understands that lateral bracing is required at column row D and that the exposed knife plates will be acceptable. An illustration follows:



<u>Answer</u>: No issues with this structurally. See this as a major impact aesthetically. Whose package it will be under is not for the Design Team to decide.

11. <u>Question</u>: Sheet A-501 detail 09 has a dimensional note that the steel tube circle dimension is 6'-4" R. Please check this dimension and confirm that this dimensional note is not correct. Please provide correct dimension.

Answer: Dimension should read 1'-0" R.

- 12. <u>Question</u>: Sheet A-403 appears to define the rise per row as 16" and the depth per row as 32". Please confirm.
 - Answer: Dimensions are per basis of design. Confirm with bleacher manufacturer.
- 13. <u>Question</u>: Specification 2.2, paragraph E.1.d. lists the requirement for Chatham County logo's in the vertical picket steel railing. How many logo's are required? <u>Answer</u>: Please disregard requirement for the County logo in the vertical picket steel railing. This will not be required as part of the base bid.
- 14. <u>Question</u>: In reference to wall construction: I could not find wall tags on the floor plan, nor a wall type plan itself. Will a "wall types" plan be provided and will wall tags be provided to correlate to the wall types? Size and gauge of material needed would be helpful as well.

<u>Answer</u>: Attached are revised LSP sheets (4 total) to address the question about wall types. The metal stud sizes are indicated, but the gauge will be provided by specialty engineering or the metal stud manufacturer to meet the requirements outlined in the structural documents.

ATTACHED DOCUMENTS:

Drawing LSP-100_Rev 01 Drawing LSP-101_Rev 01 Drawing LSP-102_Rev 01 Drawing LSP-103 Rev 01

END OF ADDENDUM NO. 2

Code Summary Facility Description Project Name: The Memorial Stadium Complex Project Location: Savannah, Georgia Applicable Codes and Standards The applicable building code for stadiums and grandstands is based on the ICC International Building Code as adopted and modified by the State of Georgia. This code and the following associated codes and laws make up the regulatory requirements applicable to the project. Mandatory Codes: • International Building Code, 2012 Edition with Ga. Amendments (2014) (2015) • International Fire Code, 2012 Edition with Ga. Amendments (2014) • International Plumbing Code, 2012 Edition with Ga. Amendments (2014) (2015) • International Mechanical Code, 2012 Edition with Ga. Amendments (2014) (2015) • International Fuel and Gas Code, 2012 Edition with Ga. Amendments (2014) (2015) National Electrical Code, 2014 Edition • International Energy Conservation Code, 2009 Edition with Ga. Amendments (2011) (2012) • Standards on Bleachers, Folding and Telescoping Seating and Grandstands ICC-300 2012 • Accessible and Useable Building and Facilities ANSI A117.1, 2009 Georgia Accessibility Code

USE and OCCUPANCY GROUPS Grandstands: 1. Assembly A-5 Grandstand and Press Box CONSTRUCTION TYPE Construction Type $_{
m II\,B}$ Grandstand and Press Box HEIGHT AND AREA Grandstands: Building Height: 55'-0" Allowable Stories Unlimited Actual 1 Story Building Area: Allowable Unlimited 6,500 sq.ft. (Concourse) (Grandstand) 11,964 sq.ft. 392 sq.ft. (Officials) 228 sq.ft. (Mechanical / Electrical) Press Box: **Building Height:** Allowable A-5 Unlimited Actual 1 Story Building Area: Allowable A-5 Unlimited 499 sq.ft. (Press Box) MEANS of EGRESS The means of egress as currently configured is compliant with the requirements of IBC Occupancy Load Factors: 1 Occupant / 18" bench (Grandstand Seating) Assembly: Field: 162 Persons Assembly Unconcentrated: 15 Net (Multipurpose) Business Area: 100 Gross Storage / Mechanical: 300 Gross Actual Occupancy Load: West Grandstand and Press Box: 2,500 Grandstand + 15 Press Box = 2,515 Total (4 means of egress) East Grandstand: 2,500 Grandstand (4 means of egress) Field: 162 Persons Officials: 4 Persons

NFPA 101, 2012

3.3.3.4 Definitions

Bleacher = Grandstand seats without backrests

• Storage of flammable or combustible material under the grandstand PROHIBITED per 12.4.8.5 Table 7.3.1.2 Occupant load Assembly: 1 Person / 18" Bench Seating OCCUPANCY LOADS: • Home Grandstand: Proposed 2500 seats + 20 max. Press Box + 3 Ticket Booth = 2523 total 7.4.1.2 Number of Egress Bleachers calculated: per actual bleacher lengths = 2725 persons Occupant above 1,000 = 4• Visitor Grandstand: Proposed 2500 seats + 3 Ticket Booth = 2503 total 7.5.4.1 Accessable Egress Bleachers calculated: per actual bleacher lengths = 2419 persons 2 Required = 2 Provided No occupancy load assigned. Concourses are not waiting areas • Concourse: for redundant occupancy loading. 12.4.8.2.1 Seating Less than 22" Back to Back SPRINKLERS: Table 12.4.8.2.5 Max. number of seats between Sprinklers are NOT required per 12.3.5.3(4) under the following conditions: farthest seat and aisle • Press Box must be less than 1000 sq.ft. (Provided 499 sq.ft.) Outdoor Bleacher = 20• Storage areas must be less than 1000 sq.ft. • Enclosed areas > 300 sq.ft. must be of 1 hour construction per 12.4.8.5 EGRESS CAPACITY: Capacity factor per Table 12.4.2.4.1 for Outdoor Smoke Protected Assemblies Vertical Aisle Stair with center rail and 8" stair risers: 7 provided on each grandstand. • 0.08AB = 0.08 [1+(8-7)/5][1] = 0.08[1.2] = 0.096/person required• Minimun width required for 528 persons (largest capacity served, visitor grandstand): 51" • 4'-6" aisle stair provided: capacity 562 persons each. Total capacity of 3934 persons. Front Aisle: Sufficient • 0.06C = 0.06(1) = 0.06"/person required • Minimun width required for 732 persons (largest capacity served, visitor grandstand) : 44" • 5'-0" front aisle provided: capacity 1000 persons. Vomitories with wall handrails and center rail and 7" max. risers. 2 provided each grandstand - Sufficient. • 0.08AB = 0.08(1)(1) = 0.08"/person required • Minimun width required for 1363 persons (half of total occupancy load) = 110" • 9'-6" vomitory width provided: capacity of 1425 each. 2 per grandstand = total capacity 2850 persons ADA ramps as 2 additional egress from grandstands, 1:10 slope - Sufficient Note: Egress capacity is satisfactory without inclusion of capacity of ADA ramps at ends of front aisle. • 0.06C = 0.06(1) = 0.06"/person required • Capacity if 36" ramps = 600 occupants each, 2 ramps per grandstand, total capacity 1200 persons. • Capacity if 42" ramps = 700 occupants each, 2 ramps per grandstand, total capacity 1400 persons. Concourse exits, 4 gates & 2 archways provided each side. • 0.06C = 0.06(1) = 0.06"/person required • Minimun width required for 2850 persons = 171" • 8'-0" gates and archways provided, capacity 1600 persons each. 6 total provided per side = 9600 persons. MEANS of EGRESS: Meets requirements of OUTDOOR SMOKE-PROTECTED ASSEMBLY 12.4.2.4 Aisle accessways: all requirements of 12.4.2.7 are met. • Aisle accessways - 15" clear width required. 22" provided. • Maximum seats between aisles = 100 (24 actual) • Aisle accessways may be utilized as both required exit accesses per 12.4.2.10 where seats • Maximum seats, dead end row = 7 (7 actual), 50' maximum travel distance until two exit accesses (13' actual) Aisle: all requirements of 12.4.2.11 are met. • Dead-end aisles meet requirements of 40 seats maximum (24 actual) between aisles. • Aisle Stairs: 22" aisle tread, 11" stair tread, 8" riser, center handrails with intermittent 2'-8" gaps every 4 rows. • Maximum travel distance from any seat to the vomitory is 400'-0", less than 110' provided. • Maximum travel distance from vomitory entrance to building exterior is 200', less than 100' provided. GUARDRAILS and HANDRAILS: • 36" minimum rail height at foot of aisle stairs, 26" minimum at seats (12.2.11.1.1) • 42" minimum at side and back of seating are (12.2.11.1.4) - Sufficient

ACCESSIBILITY:

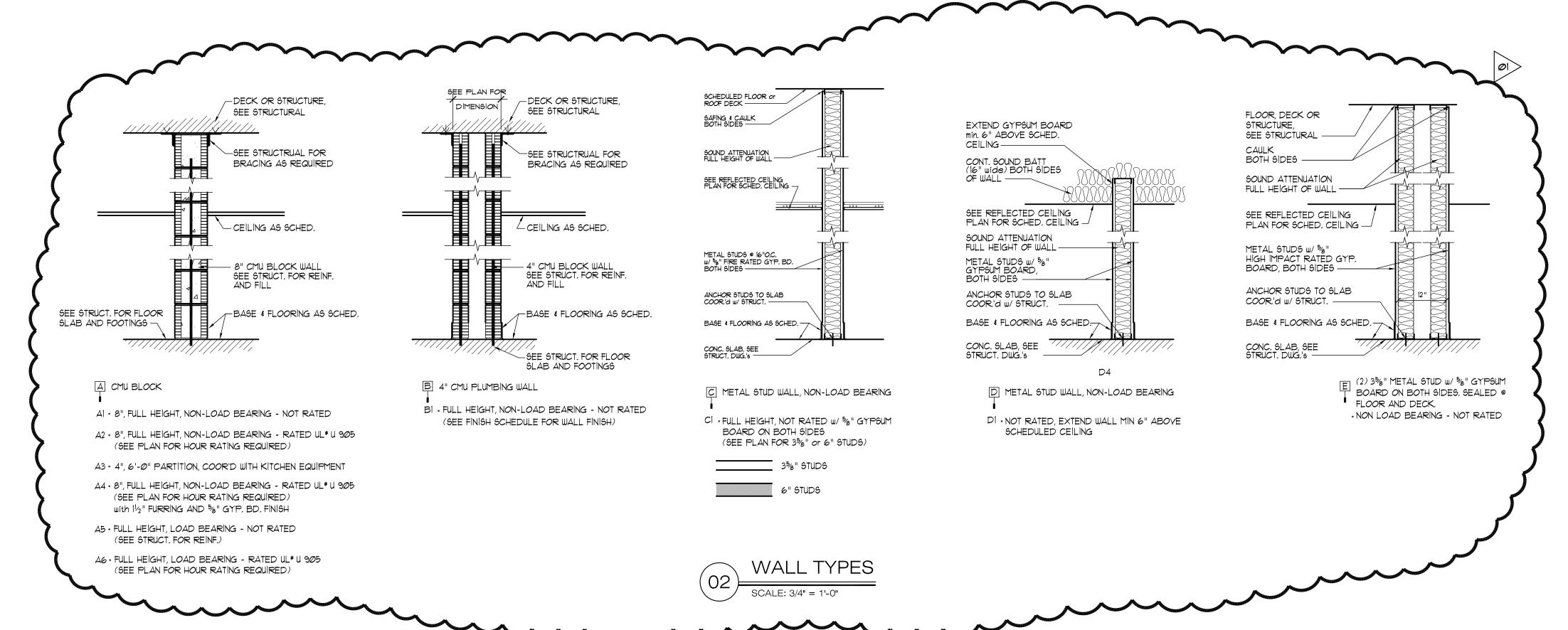
• 20 accessible seats provided per side, sufficient for 2500 design occupant loads.

OCCUPANCY:

1 hour enclosure)

• Officials suite requires 1 hour rated construction per 12.4.8.5 NFPA 101

(Enclosed incidental occupancies > 300 sq.ft. under grandstands require



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Consultants:

HUSSEY GAY BELI

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THE MEMORIAL STADIUM COMPLEX CHATHAM COUNTY

SAVANNAH, GEORGIA

No. Submittal / Revision App'd. By Date

BID SET 06/30/2017

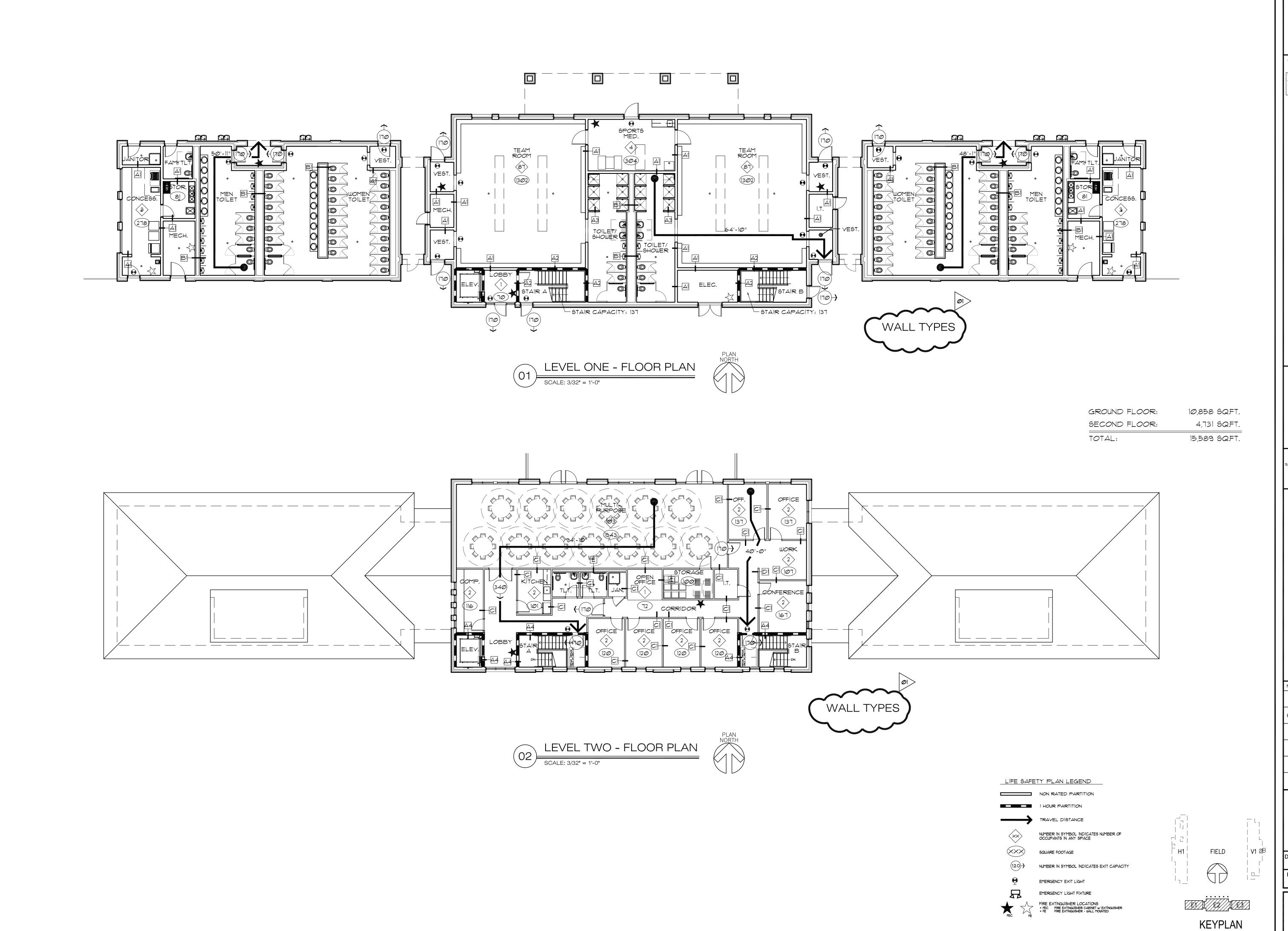
01 Bid Question Wall Types 08/05/2017

GENERAL NOTES
AND
SPECIFICATIONS

Designed By:Drawn By:Checked By:XXXXXXXXXIssue Date:Project No:Scale:30715AS SHOWN

Drawing No.:

LSP-100



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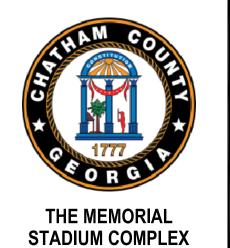
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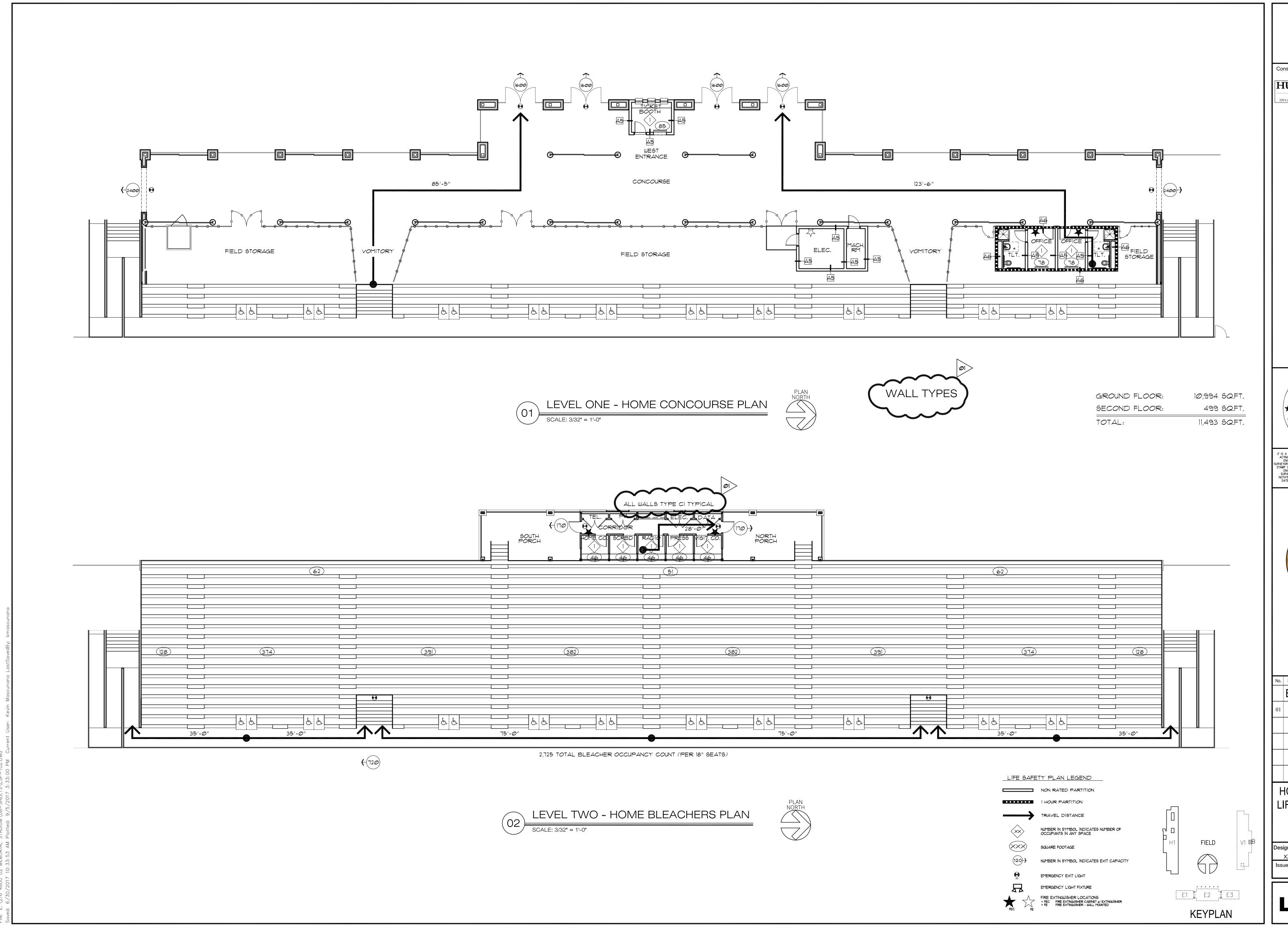
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ENDZONE BUILDING LIFE SAFETY PLANS

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| XXX | XXX | XXX |
| Issue Date: | Project No: | Scale: |
| | 30715 | AS SHOWN |

LSP-101



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Consultants:

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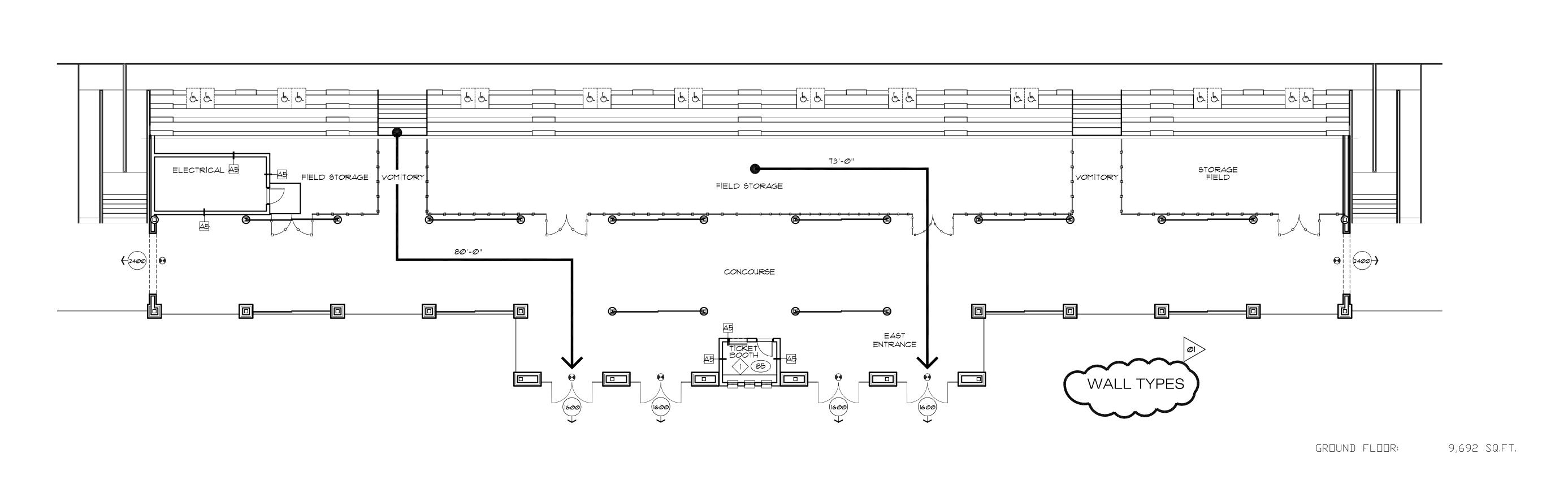
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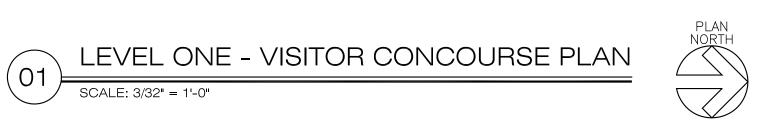
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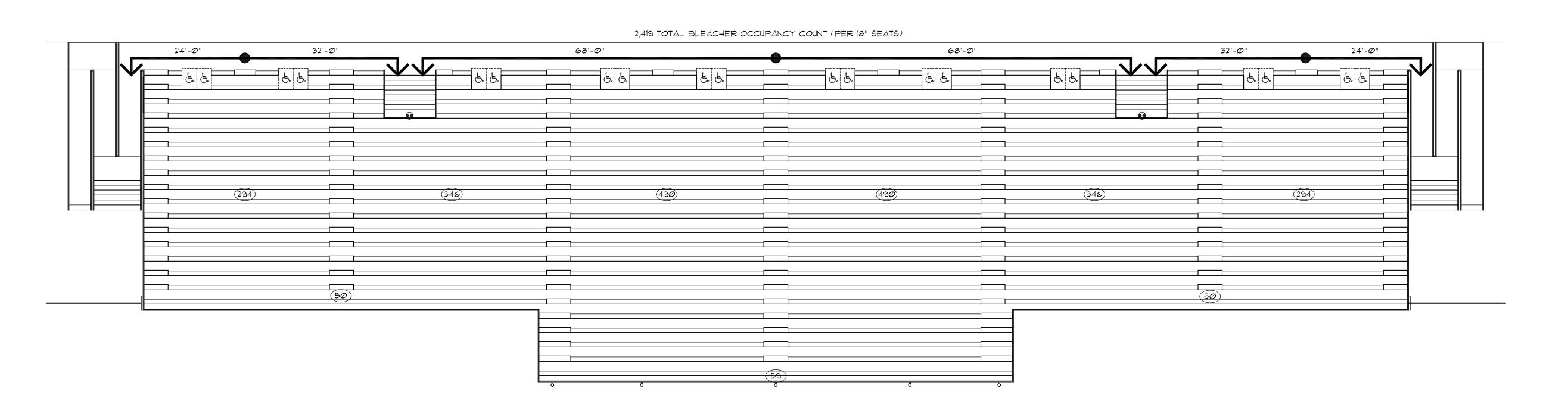
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LSP-102

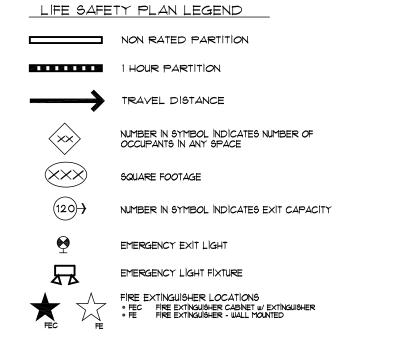


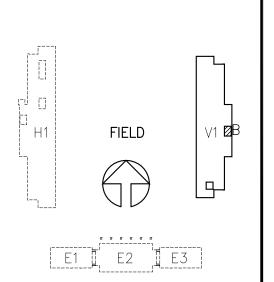












KEYPLAN

Drawing No.:

LSP-103

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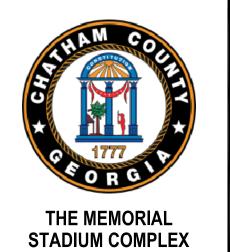
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No. Submittal / Revision App'd. By Date

BID SET 06/30/2017

01 Bid Question Wall Types 08/05/2017

01 Bid Question Wall Types 08/05/20

VISITOR BLEACHERS
LIFE SAFETY PLANS

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Issue Date: Project No: Scale: AS SHOWN

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