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WILLIAMS ARCHITECTS
824 Baronne Street
New Orleans, Louisiana 70113
(504) 566-0888

PROJECT: **Multi-Sport Venue in Eastern New Orleans and Lower Ninth Ward**
4290 Almonaster Avenue,
New Orleans, LA 70126

ADDENDUM NO. 2

OPSB Project No. ITB 26-FAC-0053

January 23, 2026

TO: New Orleans Public Schools/Bidders

This Addendum forms a part of the Contract Documents and modifies the Project Manual – Volume 1 and 2, and Drawings dated November 6, 2025. Clarifications and revisions noted below are in response to the project solicitation posted on January 5, 2026.

Owner Clarifications:

1. To obtain the current list of DBE contractors, the Unified Certification Program and the Disadvantaged Business Enterprise System website links are provided below.
   http://www8.dotd.la.gov/UCP/UCPSearch.aspx
   https://neworleans.dbesystem.com/?TN=neworleans

2. The architect is currently in the process of finalizing zoning changes and expects no issues as the City of New Orleans has provided funding for this project. The permit issuance may be extended due to documentation submission deadlines for the City Planning Commission meetings and the City Council final approval meeting for the zoning change.

Bidder Clarifications:

1. Asking for Sprinturf and Enplast be approved as potential options for the synthetic turf and shock pad part of the Multi-sport venue project in Eastern New Orleans and the Lower 9th ward.
   Response: This product has been accepted. Refer to specification section 321813 – Synthetic Grass Surfacing/2.2 for addition of product listing.

2. Is there an estimated time of install for the synthetic turf?
   Response: A completion time of 365 days from NTP is indicated in specifications, and turf install would be one of the later activities. Estimated time for turf install is first quarter of 2027.

3. Requesting product approval for Premier Polysteel for the bicycle racks and Wabash Valley for trash receptacles.
   Response: These manufacturers have been accepted and added to the specifications. Refer to updated specification sections 323300 – Site Furnishings – 2.2.A.4 and 2.3.A.5.

4. Can the bid results from the previous bid tabulation be shared?
   Response: The bid tabulation form from the previous bid on July 22, 2025 can be shared by submitting a Public Records Request through the link below:
   https://opsb.mycusthelp.com/WEBAPP/_rs/(S(dq5vuod0uzsxwn2bbhkbaqac))/SupportHome.aspx

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5. Recommendation of Sherwin-Williams Resuflor Deco Quartz, a high-performance decorative quartz system designed for durability, slip resistance, and aesthetic appeal. It's an excellent choice for areas such as locker rooms, restrooms, and concession spaces, where both performance and visual impact are important.
   Response: The Resuflor Deco Quartz is accepted and added to the specifications. Refer to updated specification section 096723 – Resinous Flooring – 2.1.A.5.

6. After review of the specs provided, it calls for 3 different style flagpoles. 1 tilt base, 1 shoe base, and imbedded ground set. Installation instructions only indicate an imbedded ground set style installation. This is fine as it is the most cost efficient and maintenance efficient way of installing flagpoles. Also, the specs call for stainless steel. The aluminum poles are just the most cost efficient for the customer as they do not require a crane necessarily whereas a stainless steel pole will certainly require a crane for installation.
   Response: Specification section 107516 – Ground-Set Flagpoles is updated which removed sections 2.2.G to I and 2.3.E that referenced shoe base and tilt base installation. All references to stainless steel poles are changed to aluminum poles – see sections 1.1.A; 2.3.A; 2.4.A.1; 2.6.

7. In spec section 012300, Alternate No.1 is referenced but on the bid form provided the description for Alternate No. 1 is not filled out. Please provide a new bid form that provides the description for Alternate No. 1.
   Response: There are no alternates in this project. The digital scoreboard and digital screen are a part of the base bid in specification section 116843 – Scoreboards. Specification section 012300 – Alternates; Part 3-Execution; 3.1-Schedule of Alternates has been removed.

8. Please advise if a sprinkler system is required for any of the buildings. There is a no sprinkler spec section but the plumbing drawings reference a few details that mention automatic sprinkler system (Details 1&2/P600)
   Response: A sprinkler system is not required. All references to a sprinkler system are removed from sheet P000 and P600.

9. The previous spec had very light gauge metal that does not allow a welded locker. This gauge metal is used for bolt together lockers (knock down) and would be a bad choice for this application. I represent Debourgh Manufacturing in Louisiana and their Rebel locker is an affordable all-welded option that fits in this application.
   Response: Specification section 105113 – Metal Lockers has been updated to provide all-welded double tier lockers with 18-gauge minimum thickness. Section 2.3.A removes SchoolLockers.com as a basis-of-design. Debourgh Manufacturing has been added as comparable product. Section 2.3.C.-Body: gauge size is updated to 18-gauge minimum thickness and locker dimensions are provided. Section 2.3.F.-Hinges: is updated to continuous hinges.

10. Please advise if the AISC certification for the steel fabricator and erector (referenced in 051200, 1.5, E & F) is required for this project. Removing this requirement would open the project up to more steel subcontractors some of which are DBE.
    Response: The AISC certification is required and to remain for this project.

11. On A101.4B, the note in the middle of the field that mentions the "Synthetic Grass Surfacing" calls for you to reference A130 for dimensions. A130 currently does not exist in the contract documents.
    Response: The note on sheet A101.3A and A101.4B referencing sheet A130 has been replaced with sheet A806.

12. Regarding the synthetic turf, will you be asking for a groomer or sweeper to be furnished in the bid?
    Response: A groomer or sweeper will not be provided in the base bid and will be coordinated with the stadium operator once they're selected.

13. Please advise if an irrigation system is required for any of the landscaping areas.
    Response: An irrigation system is not a part of the scope.

14. In details 1&2/L2.12 and 1/L2.14, it mentions new biosoil and to references L3.1. L3.1 was not included in the contract documents. Please provide this plan or the appropriate detail.
    Response: Sheet L3.1 is not a part of the drawing set. The biosoil note in details 1&2/L2.12 and 2/L2.14 have been updated. Specification section 329113 - Soil Preparation; 2.3 - Rain Garden Soil Media has been added. Subsequent sections have been renumbered.

15. Site Plan Legend note 7 on C14 & C15 mentions that the turf is "Provided by Owner". Please advise if the turf is to be provided by the GC or Owner. That same note also references detail 8, sheet C28. Detail 8 does not exist. Please provide detail 8.
    Response: Turf is included in the base scope. The note “provided by owner” has been replaced in note 7 on sheets C10 to C18. Note on sheet C7, detail 8 has been updated.

16. In spec section 083313, 2.3 the basis of design calls for a OHDC model 651 which is a non-insulated unit, but paragraph 2.3,D mentions curtain R-value. Please advise if the counter door is insulated or not.
    Response: The basis-of-design manufacturer is revised to an insulated door by Cookson Company.

17. Is there additional information for the PA system?
    Response: Additional information for the PA system is provided on sheet E103, Sheet Reference Notes, note 4.

Architect/Consultant Clarifications:

1. Geotechnical Exploration Report dated September 25, 2023 is provided.

2. HVAC units should be installed as part of the press box construction. Specification section 133419 – Press Box is updated to provide information for insulation in the floor, wall, and roof assemblies and PTAC HVAC units. The following sections have been added or modified – 1.3-B to E; 1.4-A to J; 2.1-A.2; 2.2.B to F; 2.3.G to I; 2.4.D to F; 2.7.A to E; 2.9.A to B; 3.1.A to C;

3. TreeTop Products is now Barco Products. The name has been updated in the following sections of 323300 – Site Furnishings - 2.1.A.3; 2.2.A.3; 2.3.A

4. Dimensions are updated on sheet A121, detail 7 - Women’s RR, Concessions, Ticketing Enlarged Plan.

5. The height of the beams at the entry canopy have been noted on sheet A312, detail A5 – Entry canopy Section and sheet S109, detail 3 - Section.

6. The condensing units on the South Building east side are shown mounted to the wall on Sheet M401.

7. Clarification of security camera conduit locations are provided on sheet E102, Sheet General Notes, note E.

8. Wall pack lighting is provided on the west side of the north and south buildings, shown on the lighting plans on sheet E200 and E201.

9. A concrete foundation ledge is provided in detail 6 on sheet S200.

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Attachments:

Pre-Bid Meeting Agenda
Pre-Bid Meeting Sign-in sheets (OPSB)
Pre-Bid Meeting Sign-in sheets (Carver)
Pre-Bid Meeting Minutes
Post-Bid Documents Checklist
Geotechnical Report

Specification Revisions:

012300 - Alternates
083313 - Coiling Counter Doors
096723 - Resinous Flooring
105113 - Metal Lockers
107516 - Ground-Set Flagpoles
133419 - Press Box
321813 - Synthetic Grass Surfacing
323300 - Site Furnishings
329113 – Soil Preparation

Drawing Revisions:

A101.3A – Concourse Level - North Buildings, Field, & Grandstands
A101.4B – Concourse Level - South Buildings, Field, & Grandstands
A121 – Enlarged Floor Plans and Interior Elevations
A312 – Canopy Details
C10-C18 – Site Plans
C27 – Civil Details
L2.12 – Landscape Plan - Details
L2.14 – Landscape Plan - Details
S109 – Canopy Foundation Plan, Framing Plan, & Sections
S200 – Sections & Details
M401 – Mechanical - Enlarged
E102 – Electrical Site Plan Enlarged – North
E103 – Electrical Site Plan Enlarged – West
E200 – North Entrance Electrical Enlargements
E201 – South Entrance Electrical Enlargements
P000 – Plumbing Legend & Notes
P600 – Plumbing Details

End of Addendum No. 2

ORLEANS PARISH SCHOOL BOARD
(504) 304-3520 • OPSB.us • 2401 Westbend Parkway • Suite 5055 • New Orleans, Louisiana 70114

Pre-Bid Meeting Agenda

Date: January 21, 2026, 10:00 am

Location: George W. Carver High School, 3059 Higgins Blvd. New Orleans, LA 70126

Project: Multi-Sport Venue in Eastern New Orleans and Lower Ninth Ward,
4290 Almonaster Avenue, New Orleans LA 70126

Project No: ITB26-FAC-0053

Agenda:

1. Attendees: refer to sign in sheet
2. Bids Due: February 5, 2026 (1:00 pm-CST) Sealed bids delivered prior to 1:00 pm and will be publicly opened, 2401 Westbend Parkway, New Orleans, LA 70114, room 5055.
3. Last day to receive questions from bidders - Ten (10) days prior to advertised time for the bid opening (by 1:00 pm on January 26, 2026). No further questions will be answered after this time.
4. Addendums will not be issued within a period of seventy-two (72) hours prior to advertised time for the bid opening (not after 1:00 pm on February 2, 2026).
5. OPSB does have DBE 35% goal requirement. Good faith effort will be required per DBE paperwork.
6. Project will be awarded to successful low bidder.
7. Estimated construction budget - $10,909,397.61.
8. Projected approximate start date: April 2026
9. Projected completion date: 365 consecutive calendar days from NTP
10. Scope of work: As described in bid documents, includes an approximate 3,700 seat high school football stadium with accessory concession, restroom, and locker room facilities. Refer to bid documents for a complete scope of work.
11. Remove all trash/debris from site.
12. Contractor to provide portable restroom(s) and washing facility on site.
13. Contractor shall be responsible for paying all utilities throughout the course of construction-from NTP through Substantial Completion.
14. Contractor to maintain a safe and clean site and meet all OSHA safety requirements.
15. Coordinate work dates with OPSB-PM.
16. Post-Bid documents requirements (Angela Zanders)

ORLEANS PARISH SCHOOL BOARD
(504) 304-3520 • OPSB.us • 2401 Westbend Parkway • Suite 5055 • New Orleans, Louisiana 70114

Pre-Bid Meeting Sign-In Sheet

Date: January 21, 2026, 10:00 am

Project: Multi-Sport Venue in Eastern New Orleans and Lower Ninth Ward at 4290 Almonaster Avenue, New Orleans LA 70126

Project No: ITB26-FAC-0053

Name	Organization	Phone #	Email
Angela Zarderes	NOLA PS Procurement	(504) 478-0554	azarderes@nolapublicschools.com
Carey Narlock	NOLA PS	504-472-8817	CNARLOCK@NOLAPUBLICSCHOOLS.COM
Stacy Martin	Collegiate Academies	504-704-9628	Smartin@collegiateacademies.org
Kiley Lewis	Williams Architects	504-566-0888	klewis@williamsarchitects.com
REVIUS NORRIS	SUIVERN ~~SERVICES@OUTLOOK.COM~~	2029676033	SUIVERN@OUTLOOK.COM
DASHAN WILLIAMS	A WAY OF LIFE LLC	504-594-6109	1WAYOFLIFELLC@gmail.com
Andrew Lamastus	Cycle	504-467-1444	estimating@cycleconstruction.com
Eric Turner	Verius Property Group LLC VPG Construction	205-936-9431	Estimating@vpgenterprise.com
Brennan Achary	CM Combs Construction	985-867-4960	Frontdesk@cmcombsconstruction.com
DAVID BRADDICK	MCDONNELL GROUP	504-219-0032	DBRADDICK@MCDONNEL.COM

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Name	Organization	Phone #	Email
Kelsey trosclair	tuna Construction	504.305.2249	bids@tunaconstruction.com
LANNY CAZAUX	Beverly Const.	985 264-8725	LANNY@Beverlyinc.com
MINO BOACA	GMGS RESTORATION TECHNOLOGY LLC	5047177234	GMGSRESTORATIONTECH@OUTLOOK.COM
John Parker	Sprinturf	318-355-5001	john.parker@sprinturf.com
Christian Keller	TKTMJ, Inc.	504 373.5107	Bids@TKTMJ.com
Jerry Sterling	GMGS Restoration	504 528-6752	JJSterling3330@icloud
Bethy Charles	VISIONAIRE CONSTRUCTION	524 5536653	INFO@VISIONAIRECONSTRUCTION.com
Gabriel Manson	Visionaire Construction	504-333-1806	Info@visionaireconstruction.com
Jared Lemoine	H. Rocker Electric	985-634-2820	jared@hrockerelectric.com
Scott Fitzgerald	Musco Sports Lighting	225-317-3180	scott.fitzgerald@musco.com
Peter Bilinski	Bottom Line Equipment	(504)330-8902	Peter.Bilinski@BottomlineEquipment.com
MIKE BERKOWITZ	SMITH CONSTRUCTION CO.	(985)882-2426	mike@smithcc.net

ORLEANS PARISH SCHOOL BOARD

(504) 304-3520 • OPSB.us • 2401 Westbend Parkway • Suite 5055 • New Orleans, Louisiana 70114

Name	Organization	Phone #	Email
Matt Peace	Voelkel McWilliams	985-612-0239	matthew@voelkelmcwilliams.com
MARK RIPPLE	9TH WARD STADIUM	504.616.7144	MARKRIPPLE301@GMAIL.COM
DERRICK M. JAMES	NOLA PS	504.615.2032	djames@nolapublicschools.com
John Helm	NRAPS	972 woo 0221	jhelm@nolapublicschools.com
Melvin Buford	CDW Services	5648282061	CDW Bids@cdwservices.com
Hunter Rodriguez	TEH Enterprise LLC	504-256-6017	hunter@tehnola.com
Dylan Mattio	NFT Group LLC	504-875-5499	estimating@nftgr.com

Pre-Bid Conference

George Washington Carver High School

Wednesday, January 21, 2026

10:00 AM

Sign-In Sheet

Name	Company	Time	Cell Number	Email Address	
LANNY CAZAUX	Beverly Const.	9:30	985 264-8725	LANNY@BeverlyINC.com	
Adam J Irvin Sr	JTD INC	9:30	(504)382-3686	Adam J Irvin@att.net	
Willie Taylor	Commander Corporation Inc	9:40	(504)915-6279		
GREG NALLOCK	NOLA PS	9:40	504-452-8442	GNALLOCK@NOLAPUBLICSCHOOLS.COM	
DAVID BRADDOCK	TMG	9:40	504-201-8823	DBRADDOCK@TMGJONES.COM	
Kevin Norris	SUIVERN	9:40	2029676833	SUIVERN@HOTLOOK.COM	
Scott Fitzgerald	Musco Lighting	9:43	225 317 3180	scott.fitzgerald@musco.com	
A Zardes	NOLA PS	9:44	(504)478-0554	azardes@nolapublicschools.com	
Kiley Lewis	Williams Architects	9:45	4045137135	klewis@williamsarchitects.com	
Matt Peace	Voelkel McWilliams	9:46	985-612-6239	mathew@voelkelmcwilliams.com	
MINO BOACA	GMGS	9:47	504-717-7234	GMGSRESTORATIONTECH@OUTLOOK.COM	
Jeremy Stanley	GMGS	9:47	504 458 6752		

Pre-Bid Conference
George Washington Carver High School
Wednesday, January 21, 2026
10:00 AM

Sign-In Sheet

Name	Company	Time	Cell Number	Email Address
John Parker	Sprinturf	9:46	318-355-5001	John.parker@sprinturf.com
Brennan Achary	Cm Combs Construction	9:47	985-867-4960	Frontdesk@cmcombsconstruction.com
Christian Keller	TETMJ, Inc	9:48	504.236.1515	Bids@TETMJ.com
Kelsey Trosclair	Turna Construction	9:49	504 615 8441	bids@turnaconstruction.com
DASHAN WILLIAMS	A WAY OF LIFE	9:50	504-994-6109	1WAYOFLIFE LLC@gmail.com
Andrew Lamattina	Cycle	9:50	504-467-1444	estimating@cycleconstruction.com
Dylan Mattio	NFT Group	9:50	504-655-2626	estimating@nftgr.com
Gabriel Manson	Visionate Const.	9:50	504-333-1506	info@visionateconstruction.com
Eric Turner	Verius Property Group VPG Construction	9:50	205-936-9431	Estimating@vpgenterprise.com
RYAN CASTEIX	GIBBS CONST.	9:50	504-733-4336	bid@gibbsconstruction.com
Jared Lemoine	L. Rocker	9:50	985-634-2820	jared@lrockerelectric.com
John Johnson	NOLA PJ	9:50	985-400-2446	johnj@nolapaving.com

Pre-Bid Conference

George Washington Carver High School

Wednesday,January 21, 2026

10:00 AM

Sign-In Sheet

Name	Company	Time	Cell Number	Email Address	
Derrick James	OPSB	9:55	615.2032	djamesnolapublicschools.com	
JOHN C. WILLIAMS	OPSB	9 55	828.719.0089	JCWILLIAMS@WILLIAMS ARCHITECT.COM	
Hunter Rodriguez	TEH Enterprise	9:55	504-256-6017	hunter@tehnola.com	
Curtis Laub	MULTISTUDIO	9:59	504.495.9412	curtis.Laub@multi.studio	
Brittny [illegible]	VISIONAIRE	10:00	[illegible]	info@visionaireconstruction.com	
MIKE BERKOWITZ	SMITH CONSTRUCTION	10:00	504-621-8773	mike@smithcc.net	
MARK RIPPLE	9TH WARD	10:00	504.616.7144	MARK@ EDR. com	
Peter Bilinski	Bottom Line Equipment	10 00	(504)330-8902	Peter.Bilinski@BottomlineEquipment.co	
Melvin Burton	CDW	10:00	6018803164	CDWBids@cdwservices.com	

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Project: Multi-Sport Venue in Eastern New Orleans and Lower Ninth Ward
4290 Almonaster Avenue, New Orleans, LA 70126
Project No: ITB26-FAC-0053
Date/Time: 01/21/26 10:00 AM
Location: George W. Carver High School

Pre-Bid Meeting - Meeting Minutes

Attendees:
See sign-in sheet attached.

Notes:

- Stacy Martin (Collegiate Academics/Ninth Ward Stadium) welcomed and thanked bidders for their attendance and introduced members of the school board and Ninth Ward Stadium committee. She gave a brief project background and history to where the project is now. She also mentioned that the Ninth Ward Stadium committee was part of the fundraising efforts for the venue and that it will serve as Carver's home field, with first refusal rights but will also serve as a city-wide venue to other schools and organizations.

- John Williams (Williams Architects) introduced the architects/design team and emphasized the importance of the project. He also read through the items on the agenda.

- Angela Zarders (Orleans Parish School Board) explained the post-bid documents submittal process and requirements and stated it will be a part of Addendum No. 2.

Bid Questions from Attendees:

- Will athletic field lighting be on the football field and track?
  Response: Scope for bids only includes athletic field lighting for the football field. Athletic field lighting for track and field should not be included in the bids.

- Can bidders receive cad files of the drawings?
  Response: Cad files may be provided to the awarded bidder with proper authorization.

- Are there a significant amount of changes from the previous bid set?
  Response: Though many items have not changed from the previous bid set, bidders are advised to review the drawings in detail. Examples of changes include but are not limited to modifications to the concrete walkways around the stadium and addition of the turf and video score board to the base scope.

- Was the project able to receive more funding?
  Response: Yes, the project was able to receive more funding.

- Are there any alternates?
  Response: There are no alternates. The Alternates specification section will remove the alternate information.

- The drawings state that the owner is to provide the turf.
  Response: Turf is to be included in the base scope. Any notes referencing otherwise will be modified/removed.

- When will the next addendum be issued?
  Response: The Addendum No. 2 will be issued by Friday, January 23.

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- Are there any other field markings to be provided?
  Response: Football and soccer markings are indicated in the drawings. Lacrosse markings are not a part of scope.

- A question was asked regarding the scope of the PA system.
  Response: PA information has been provided in the documents. The architect will verify if any additional information should be included.

- Will the sign-in sheet be included in the next addendum?
  Response: Yes

- Can bidders have access to the site after today?
  Response: A meeting is tentatively scheduled for Monday, January 26 from 11 am to 12 pm, weather permitting. If no calls to Kiley Lewis (Williams Architects) to request a site visit are made by Friday, end of business day, the site will not be opened for access. Under no circumstances should anyone trespass onto the site from the Carver High School campus.

- Is a soils report available?
  Response: The geotechnical report will be issued in the next addendum.

End of Questions

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NOLA Public Schools

Post-Bid Document Checklist

Project Information

Project: ITB 26-FAC-0053 – Multi-Sport Venue in Eastern New Orleans and Lower Ninth Ward
Bid Opening Date: Thursday, February 5, 2026 @ 1PM CST
Pre-Bid Conference Date: January 21, 2026, 10:00AM @ 4290 Almonaster Avenue
All documents are due within 10 calendar days after bid opening.

Submission Rules

- Post-Bid Documents cannot be emailed.
- Submission by hand delivery, U.S. Mail, or Express Mail only.
- NOLA-PS is not responsible for delays or lost mail; late receipt = non-responsive.

Required Post-Bid Documents

☐ Non-Collusion Affidavit

☐ Attestation Clause

☐ DBE Responsiveness Form 1

☐ DBE Responsiveness Form 2

☐ DBE Certification Checklist (Notarized)

☐ Copy of DBE Certification Letter(s) (Provide letters for any DBE firms being claimed)

☐ EDGAR Form

Delivery Address (Hand Delivery or Mail)

Mr. Jonathan Temple
Office of Business Partnerships
NOLA Public Schools
2401 Westbend Parkway, Suite 5055
New Orleans, LA 70114

STATE OF LOUISIANA
PARISH OF _____

PROJECT NO._____
NAME:_____
LOCATION:_____

AFFIDAVIT

Before me, the undersigned authority, duly commissioned and qualified within and for the State and Parish aforesaid, personally came and appeared _____ (hereinafter "Affiant"), the duly authorized and lawful representative of _____, who, being by me first duly sworn deposed, testified under oath that he has read this Affidavit and does hereby agree to comply with all provisions herein , and affirms under oath as follows:

PART I

Louisiana Revised Statutes, Title 38, Section 2224:

(1) That Affiant employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public Contract between _____ and the Orleans Parish School Board, under which Affiant has or will receive payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public Contract were in the regular course of their duties for Affiant; and

(2) That no part of the Contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the Contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for affiant.

PART II

Louisiana Revised Statutes, Title 38, Section 2190:

That Affiant, if an architect or engineer, or representative thereof, does not own a substantial financial interest, either directly or indirectly, in any corporation, firm, partnership, or other organization which supplies materials for the construction of a public work when the architect or engineer has performed architectural or engineering services, either directly or indirectly, in connection with the public work for which the materials are being supplied.

For the purposes of this section, a "substantial financial interest" shall exclude any interest in stock being traded on the American Stock Exchange or the New York Stock Exchange.

That Affiant, if subject to the provisions of this section, does hereby agree to be subject to the penalties involved for the violation of this section.

SWORN TO AND SUBSCRIBED BEFORE ME
THIS _____ DAY OF _____, 20____.

_____ AFFIANT

_____ NOTARY

Name of Project _____ **Project No.** _____

ATTESTATIONS

Appearer, as a Bidder on the above-entitled Public Works Project, does hereby attest that:

LA. R.S. 38:2227 PAST CRIMINAL CONVICTIONS OF BIDDERS

A. No sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes:

(a) Public bribery (R.S. 14:118)
(b) Corrupt influencing (R.S. 14:120)
(c) Extortion (R.S. 14:66)
(d) Money laundering (R.S. 14:230)

B. Within the past five years from the project bid date, no sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes, during the solicitation or execution of a contract or bid awarded pursuant to the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes:

(a) Theft (R.S. 14:67)
(b) Identity Theft (R.S. 14:67.16)
(c) Theft of a business record (R.S.14:67.20)
(d) False accounting (R.S. 14:70)
(e) Issuing worthless checks (R.S. 14:71)
(f) Bank fraud (R.S. 14:71.1)
(g) Forgery (R.S. 14:72)
(h) Contractors; misapplication of payments (R.S. 14:202)
(i) Malfeasance in office (R.S. 14:134)

LA. R.S. 38:2212.10 Verification of Employees

A. At the time of bidding, Appearer is registered and participates in a status verification system to verify that all new hires in the state of Louisiana are legal citizens of the United States or are legal aliens.

B. If awarded the contract, Appearer shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana.

C. If awarded the contract, Appearer shall require all subcontractors to submit to it a sworn affidavit verifying compliance with Paragraphs (A) and (B) of this Subsection.

_____ _____
NAME OF BIDDER **NAME OF AUTHORIZED SIGNATORY OF BIDDER**

_____ _____
DATE **TITLE OF AUTHORIZED SIGNATORY OF BIDDER**

_____
SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER

Orleans Parish School Board Disadvantaged Business Enterprise Program (DBE)

DBE RESPONSIVENESS FORM 1

RFP/RFQ/Bid/Solicitation/Other # _____ Bidder/Proposer: _____

Project Name & Description:_____

FOR BIDS: THIS COMPLETED FORM SHOULD BE FURNISHED TO THE OFFICE OF PROCUREMENT BY THE LOWEST PROPOSER WITHIN TEN (10) DAYS OF THE BID OPENING. FAILURE TO COMPLETE THIS FORM PROPERLY MAY CONSTITUTE THE BID/OFFER AS BEING NON-RESPONSIVE AND SUFFICIENT CAUSE FOR REJECTION.

FOR RFPS/RFQS: THIS COMPLETED FORM SHOULD BE FURNISHED TO THE OPSB-DBE OFFICE THROUGH THE OFFICE OF PROCUREMENT WITH YOUR PROPOSAL. FAILURE TO COMPLETE THIS FORM PROPERLY MAY CONSTITUTE THE PROPOSAL/OFFER AS BEING NON-RESPONSIVE AND SUFFICIENT CAUSE FOR REJECTION.

The undersigned Bidder/Proposer has satisfied the requirements of the bid/proposal specifications for the above-referenced Orleans Parish School Board project in the following manner.

Please check the appropriate space:

☐ The Bidder/Proposer is **committed to achieving and/or exceeding** the DBE target goal of **35** % DBE utilization on this contract; and will require all Subcontractors to assist **the Prime Contractor** in achieving 35% DBE participation, before this project is substantially complete.

☐ The Bidder/Proposer **is unable to meet** the DBE target goal, but is committing to a minimum of_____ % DBE utilization by pre-construction phase, and will require all Subcontractors to assist **the Prime to achieve** 35% DBE participation, before this project is substantially complete.

Name of **Bidder's/Proposer's** Firm: _____

Telephone:_____Fax:_____E-Mail: _____

By:_____._____/_____/_____
(Authorized Signature) (Title) (Date)

THE BIDDER/PROPOSER IS COMMITTED TO UTILIZING DBE PARTICIPATION ON THE PROJECT IN THE FOLLOWING MANNER:

COMPLETED BY PROPOSER:

The Bidder/Proposer is committed to utilizing the **DBE FIRM NAMED BELOW** for the *Scope(s) of Work* as described below. The estimated dollar value of the scope of work is $_____and_____% of the total dollar value of the contract.

Copy this form, if you are utilizing more than one (1) DBE firm to achieve the DBE participation percentage on the project.

Name of DBE Firm:

DBE Firm Owner or Contact:

Telephone:_____Fax:_____E-Mail: _____

DBE TYPE: ☐ SLDBE CERTIFIED ☐ LAUCP DBE CERTIFIED

☐ DBE Certification Letter is attached

COMPLETED BY DBE FIRM (below):

DBE AFFIRMATION. The above-named DBE firm affirms that it will perform the scope(s) of work on this contract for the estimated dollar value and contract percentage as stated above.

By:_____._____/_____/_____
(Authorized Signature) (Title) (Date)

Note: If the Bidder/Proposer does not receive award of the prime contract, then any and all representations in this form shall be null and void.

ORLEANS PARISH SCHOOL BOARD

DBE RESPONSIVENESS FORM 2

SUBCONTRACTING STRATEGY FOR DBE PARTICIPATION

Business Name: _____ **Project Name/Number:** _____

Business Contact Information: _____

(Phone, Fax, E-Mail and Address:) _____

Provide a strategy to identify specific subcontracts that will be awarded to DBEs and anticipated DBE participation for project. This Plan shall incorporate actions to be taken by the Bidder's/Proposer's proposed DBE Subcontractors/Consultants/Suppliers.

Bidders: Must submit form within 10 days after Bid-Date. Provide attachments if necessary.

DBE Vendor	Scope of Work Construction Division(s) | Materials	Contract Value	Percent of Prime Contract

NOTE: *If the Bidder/Proposer does not receive award of the prime contract, then all representations in this form shall be null and void.*

Representative's Name: _____ Title: _____ Date: _____

Signature: _____

(Authorized Signature)

Month of: _____
Year: 20_____
Correlates with Bid #_____

ORLEANS PARISH SCHOOL BOARD

DBE POST-BID | PRE-CONSTRUCTION COMPLIANCE CERTIFICATION CHECKLIST

(Note: Form must be submitted with one or more of the supporting documents identified and initialed below. Failure to submit completed certification constitutes non-responsiveness and cause for ejection.)

Business Name: _____

Bidder's Name & No.: _____

If *Subcontractor*, Name of Business Performing Work Under: _____

Business Principal Contact Information: _____

(Print Name, Phone, E-Mail, and Physical Address)

I _____ **hereby certify that,**
(Print Name & Title of Company Representative)

_____ **has complied with all Disadvantaged Business**
(Print Business Name)

Enterprise, Equal Employment Opportunity, and Affirmative Action Front End Provisions set forth in the OSPB DBE Policy and with all of the provisions of Federal Executive Order 11246, as amended, including implementing and related rules, regulations and relevant orders of the U.S. Secretary of Labor. I also certify that all information contained in *Supporting Documents is true and correct.

Signature: _____ **Date:** _____
(Authorized Signature)

***Supporting Documents Attached:**

- ☐ DBE Responsiveness Form 1_____(Initial)
- ☐ DBE Responsiveness Form 2_____(Initial)
- ☐ DBE Pre-Construction Report 1_____(Initial)
- ☐ DBE Pre-Construction Report 2_____(Initial)
- ☐ DBE Pre-Construction Report 3_____(initial)

STATE OF LOUISIANA, ORLEANS PARISH IN WITNESS WHEREOF, I have hereunto set my hand and official seal this _____Day of _____, 20_____.

Notary Public, State of Louisiana

My Commission Expires_____

Orleans Parish School Board
Federal Compliance Provisions

In accordance with §200.0 – 200.521 of the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (sometimes referred to as the new "EDGAR"), this Addendum ("Addendum") is proof of the vendor's willingness and ability to comply with certain requirements which may be applicable to specific OPSB purchases using federal grant funds. It amends and is hereby incorporated into an existing agreement between the parties. Vendor agrees to comply with all federal, state, and local laws, rules, regulations and ordinances, as applicable. It is further acknowledged that vendor certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted above.

Name and Title of Authorized Representative: _____

Signature of Authorized Representative: _____

Email Address: Date: _____

Company Name: _____

Address, City, State, and Zip Code: _____

Phone Number: _____ Fax Number: _____

GEOTECHNICAL EXPLORATION REPORT

NOLA PUBLIC SCHOOLS
9th WARD STADIUM
ALMONASTER AVE.
NEW ORELANS, LOUISIANA

FOR

NOLA PUBLIC SCHOOLS
NEW ORLEANS, LA

GULF SOUTH ENGINEERING AND TESTING FILE NO. 24-053

September 25, 2024

GULF SOUTH
ENGINEERING AND TESTING, INC.
15 Veterans Memorial Blvd | Kenner LA 70062
504-305-4401 | www.gulfsoutheng.com

GULF SOUTH
ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

15 Veterans Memorial Boulevard, Kenner, LA 70062
PN: 504-305-4401 FN: 504-305-4408 E-mail: info@gulfsoutheng.com

September 25, 2024

NOLA Public Schools
2401 Westbend Parkway
New Orleans, LA 70114

Attn: Mr. Greg Narlock, Director of Capital Projects
E-mail: gnarlock@nolapublicschools.com

Re: Geotechnical Exploration Report
NOLA Public Schools
9th Ward Stadium
Almonaster Ave.
New Orleans, LA
Gulf South Engineering & Testing File No. 24-053

Dear Greg,

Please find attached our geotechnical exploration report that was completed for the referenced project. We appreciate the opportunity to serve your geotechnical needs. Please contact us should you have any questions.

Sincerely,
GULF SOUTH ENGINEERING AND TESTING, INC.

CHAD M. POCHE, P.E.
Executive Vice President

BRYSON S. BEARD, E.I.
Associate Geotechnical Engineer

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GEOTECHNICAL EXPLORATION REPORT

NOLA PUBLIC SCHOOLS
9th WARD STADIUM
ALMONASTER AVE.
NEW ORELANS, LOUISIANA

GULF SOUTH ENGINEERING AND TESTING FILE NO. 24-019

1.0 INTRODUCTION & LIMITATIONS

This report contains the results of a geotechnical exploration made at the subject site. Instructions to proceed with the exploration were received from NOLA Public Schools (Client) via approval of our proposal dated April 4, 2024.

The study included drilling soil test borings and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on the field and laboratory test data to develop recommendations for the project.

The analyses and recommendations presented in this report are based on the provided project information and the results of the exploration. While it is not likely that conditions will differ significantly from those observed during the field exploration it is always possible that variations can occur away from the borehole location(s).

If it becomes apparent during construction that subsurface conditions differing significantly from those observed in our boring(s) are encountered, Gulf South should be notified. Also, should the nature of the project change or should any of the stated assumptions be inaccurate, the recommendations provided in this report should be re-evaluated.

This report has been prepared for the exclusive use of our Client. The recommendations provided in this report are site specific and are not intended for use at any other site or for any other project. This report provides recommendations for design and construction and should not be used as construction specifications.

Gulf South considers the materials testing and onsite inspection during construction an extension of our geotechnical exploration and a key component to ensuring the recommendations provided in this report are followed. For this type of project, these services may consist of earthwork testing and monitoring, vibration monitoring, concrete testing and inspection, and steel inspection. Gulf South should be retained to provide the construction inspection services for this project.

2.0 SOIL BORINGS

Six (6) undisturbed soil borings were drilled to depths of 60 feet (Borings B-1 and B-2) and 6 feet (Borings B-3 through B-6) below ground surface between May 29 through July 8, 2024. The borings were drilled with truck and ATV mounted drilling rigs at the designated locations as approximately shown on Figure No. 1. Borings B-2, B-3, and B-6 were offset from their original planned location due to access limitations from fencing.

Undisturbed sampling was performed continuously or on approximate 5 foot centers in all cohesive or semi-cohesive materials with a three inch diameter thin wall tube sampler. The samples were extruded in the field, representative portions of each sample were trimmed and placed in moisture proof containers, the samples were properly labeled, and secured for transport to the laboratory.

When cohesionless material was encountered or when soils could not be adequately sampled by undisturbed methods, the Standard Penetration Test was performed. This test consists of driving a two-inch diameter split spoon sampler a total of approximately 18 inches with a 140 lb. hammer falling 30 inches. The number of blows required to drive the sampler per 6 inch increment is recorded and gives an indication of the density of the material. The blows per foot shown on the boring log are the total of the blow counts for the final 12 inches of penetration.

3.0 LABORATORY TESTING

Soil mechanics laboratory tests were performed on samples obtained from the borings. The testing consisted of natural moisture content, unit weight, Atterberg limits, swell pressure, and unconfined/tri-axial compression strength testing. The results of the laboratory tests are shown on the soil boring logs provided in Appendix A of this report.

4.0 SUBSOIL CONDITIONS

4.1 Subsoil Description

Reference to the borings shows varying layers of very loose to loose sand and clayey sand and very soft to medium stiff, clay, sandy clay, and organic clay are present from the ground surface to the approximate 6 foot depth. Very soft to medium stiff clay follows to the deepest borings' termination depth of 60 feet. Boring B-1 encountered a very soft sandy clay from the approximate 43 to 48 foot depth. Borings B-2 encountered very loose to loose clayey sand from the approximate 53 to 60 foot depth.

4.2 Groundwater

At the time of making the borings, groundwater was first encountered within Borings B-1 and B-2 at the approximate 6 to 8 foot depths below the ground surface. After waiting approximately 15 minutes, it was observed groundwater rose to the approximate 3 to 6 foot depths. Groundwater was not observed in Borings B-3 through B-6. These observations were made during a short period of time and groundwater may not have become fully realized at the time of observation. Groundwater should be expected within the upper 15 to 20 feet and can fluctuate with seasonal precipitation, drainage, and prolonged drought. If the depth to groundwater is important to construction, it should be measured at that time.

5.0 FURNISHED INFORMATION AND FOUNDATION RECOMMENDATIONS

Furnished information indicates the construction of a new stadium for NOLA Public Schools is planned in the 9th Ward along Almonaster Ave. in New

Orleans, LA. The facility will consist of bleachers, CMU structures, parking and driveways. Based on provided information, we understand the bleachers and press box are expected to have a structural load of 112 psf floor loads and 677 per foot line loads. We assume no more than 1 foot of fill will be placed to raise the site. Furnished plans can be found in Appendix B.

With regards to support of proposed structures using shallow foundations, the near surface soils are soft and compressible. Shallow foundations should only be considered for lightly loaded and non-settlement sensitive structures. If shallow foundations are selected, footings should be placed to bear at least 2 feet below the ground surface within firm in-place soils or compacted select fill. Alternatively, should the values provided in this report for bearing and settlement using shallow foundations not be tolerable, deep foundations consisting of driven, treated, timber piles (Class II or Class B) should be used for support. We have included pile recommendations for completeness. Alternatively, helical piles may be an appropriate option for shallow foundations on lightly loaded structures. Helical pile capacities and design recommendations are provided by various manufacturers.

Preliminary laboratory test results indicate the near surface soils have a minimal shrink/swell potential. Care should be taken during and after construction to limit activities that could affect moisture within the soils below and around the foundations. By precluding surface waters from saturating the soils, the resulting volumetric movements will be minimized. In this regard, good roof and surface drainage should be assured with positive collection and runoff of these waters away from foundations.

Structural analyses and the structural adequacy of the foundations are outside our scope of work for the project. Utilities to and from the structure should be attached to the slab using suitable hangers and flexible connections.

6.0 SHALLOW FOUNDATIONS FOR LIGHTLY LOADED STRUCTURES

6.1 Allowable Soil Bearing Capacity

We estimate a net allowable soil bearing capacity of 300 lbs. per sq. ft. is available for design of grade supported footings and mats. This allowable soil

bearing capacity assumes the footings are seated in firm, natural, soils as described and encountered in our borings or compacted, structural, fill.

Foundation excavations should be thoroughly inspected to assure that the footings are seated in firm and well-drained soil. The allowable soil bearing capacities contain a factor of safety of at least 3.0 against failure but do not preclude settlements, as will be discussed.

6.2 Estimated Settlement

Slabs. We have estimated long term settlement for the proposed bleachers, press box, and CMU structures.

Table 1 – Settlement Estimates for proposed Bleachers

Net Applied Soil Pressure (psf)	**Estimated Center Settlement (inches)**
	Bleacher Slab Founded at Grade 52 ft. Wide by 262 ft. Long (13,600 sq feet)
Up to 100	1 inch or less
100 to 200	3 to 4
200 to 300	6 to 7

Table 2 – Settlement Estimates for proposed Press Box

Net Applied Soil Pressure (psf)	**Estimated Center Settlement (inches)**
	Press Box Slab Founded at Grade 50 ft. Wide by 50 ft. Long (2,500 sq feet)
Up to 100	1 inch or less
100 to 200	2 to 3
200 to 300	3 to 4

Table 3 – Settlement Estimates for proposed CMU Building

Net Applied Soil Pressure (psf)	**Estimated Center Settlement (inches)**
	Concrete Masonry Unit (CMU) Building Slab Founded at Grade 26 ft. Wide by 105 ft. Long (2,730 sq feet)
Up to 100	1 inch or less
100 to 200	1 to 2
200 to 300	3 to 4

Fill. We have calculated the estimated long-term settlement of the ground surface due to the placement of up to 1 foot of fill over an approximate 100 ft. by 100 ft. area to be on the order of 1 inch or less. Our analyses are based on a unit weight of 110 pounds per cubic foot (pcf) for the fill material. Settlement due to fill placement should be quick (within 2 months of placement). Fill should be placed as far in advance of construction as possible.

Footings. Settlement analyses were made using applied pressures equal to 100% of the allowable soil bearing value. Long-term settlement of square footings no larger than 6 feet in width and strip footings no wider than 3 feet in width is estimated to be on the order of ½ to 1 inch. Settlement will increase with the size of the footing and/or loading and if larger footings are needed for support, revised settlement analyses should be made.

In view of the magnitude of the estimated settlement and to bridge any undetected soft or loose areas, good rigidity should be assured in the foundations to minimize the effects of differential settlements. Adequate steel reinforcement should be designed and included within the foundations. If the estimated settlements for shallow footings are considered prohibitive, driven piles should be used for support of the structures.

6.3 Site Preparation and Fill Materials

Prior to construction, the foundation area should be stripped of all debris, vegetation, tree roots, deleterious materials, etc. and should be proof rolled using a heavy wheeled vehicle. Any "soft" soils noted during the proof rolling or observed within excavations should be removed to a depth where stiffer soils are encountered or to a minimum depth of 2 feet. Excavated soils and organic matter should be replaced with controlled-compacted, structural, fill.

A lean, silty or sandy clay (CL - USCS Classification) may be used for fill. The clay fill should have a Liquid Limit of less than 40 and a Plasticity Index (PI) of less than 20. Fill should be a clean, select, fill material free from debris or organic matter.

6.4 Fill Placement and Compaction

Fill should be placed in 10 to 12 inch loose lifts. Minimum compaction criteria of a dry density at least equal to 95% of its maximum, as determined by the Standard Proctor compaction test (ASTM D698), should be used for fill that will support foundations.

6.5 Vibrations

Vibrations due to construction activities should be expected and they should be monitored during all construction activities. In general, vibrations should be limited to about 0.25 inch/sec. (average peak particle velocity) at all existing nearby sensitive structures. Construction should be stopped if peak values exceed about 0.5 in./sec.

7.0 DEEP FOUNDATIONS FOR HEAVILY LOADED STRUCTURES

If shallow foundations are not feasible, a deep foundation system consisting of driven, treated, timber piles (Class 5 or Class B) should be used to support the structures. All loads (e.g. column, wall, and slab) from the structures should be supported on piles if deep foundations are selected.

7.1 Pile Load Capacities

Analyses were made to estimate the load carrying capacity of several types and lengths of treated timber piles (ASTM D-25; Class 5 and Class B). Piles installed for this project will receive their support primarily through skin friction.

Estimated pile load capacities are provided on Figure No. 2. The given pile lengths are as measured from the existing ground surface and contain factors of safety of 2.0 and 3.0 against failure in compression and tension, respectively. Pile lengths above the ground surface should be added to the lengths provided on Figure No. 2 to obtain a total pile length.

7.2 Drag Load

When fill is placed on the site, the underlying compressible soils consolidate, resulting in surface settlement. As the compressible soils consolidate, "negative skin friction" or downdrag can be imparted on piles. This can result in a load that is additive to structural loads on the piles and will increase settlement of the piles and structure.

Drag load is dependent on the thickness of fill, compressibility of the soils, time-rate of consolidation, and pile size and length. Gulf South should be notified if more than 2 feet of fill is expected to be placed on site.

7.3 Group Effect

The effects of pile grouping on single pile load capacities is dependent on pile spacing, pile lengths, and soil characteristics throughout the pilet length and below the pile tip. Assuming a minimum center to center spacing of 3 ft., group effect should be unimportant for pile clusters of up to 6 piles. Group effect may become important for larger clusters and should be evaluated when actual pile layouts are known using the criteria provided on Figure No. 3.

7.4 Estimated Settlement

Settlement of pile supported footings and slabs constructed in single, widely, spaced rows, or in clusters of up to 4 to 6 piles is estimated to be 1 inch or less for the provided capacities and tip depths. These values assume piles

are driven to the specified tip depths and not loaded greater than the stated allowable carrying capacities.

7.5 Pile Driving

In general, driving of treated timber piles having 6 to 7 inch diameter tips and 8 to 12 inch diameter butts (Class 5 and Class B piles) should be limited to the rate of 25 blows per foot using a hammer energy rating of 15,000 ft-lbs. (e.g. Vulcan No. 01 hammer or equivalent).

Predrilling for pile installation does not appear to be necessary. An experienced pile driving contractor should be consulted. Predrilling may also be used to reduce vibrations. If necessary, predrilling should be made with a bit that is no larger than 85% of the pile's tip diameter and should not penetrate to within 10 feet of the pile's design tip depth.

7.6 Probe Piles and Pile Load Tests

It is recommended that probe type piles be installed at the site to establish installation characteristics and pile lengths. The probe piles should be of the same type and size as the job piles and should be installed with the same equipment and techniques that will be used to install the job piles.

We recommend the probe piles be allowed to set for a period of 14 days and at least one of the probe piles be tested to failure in accordance with ASTM D 1143. Gulf South should be retained to evaluate and verify the estimated pile load capacities.

8.0 PAVEMENTS

Flexible (asphalt) or rigid (concrete) surface paving for parking and driveways will be constructed at the site. Based upon our understanding of the proposed facility usage, we anticipate that the paved areas will be used primarily by automobiles and light trucks with an occasional passage of a delivery type vehicle and/or garbage collection vehicle. The recommendations provided are for a 20 year design E18 value of 275,000. Our design does not account for construction traffic. Concrete paving should be used at any dumpster pads.

The subgrade should first be prepared in accordance with the recommendations of this report. Base course and pavement materials should conform to the requirements of LA DOTD Standard Specifications, latest edition.

8.1 Flexible Pavement

For flexible pavements, an asphalt surface thickness of at least three (3) inches is recommended for parking areas. The thickness should be increased to at least five (5) inches for driveways. The base course beneath the asphalt surface should consist of at least twelve (12) inches of crushed stone. A geotextile paving fabric is recommended between base materials and the natural subgrade.

We recommend the asphalt courses be placed as late as possible in the project so that the effects of settlement can be reduced. Proper drainage during and after construction is essential to the success of flexible asphaltic pavement systems.

Flexible pavements are susceptible to failures due to poor surface and subsurface drainage. Asphalt pavement generally requires surface sealing with a thin (½ inch) hot mix asphaltic concrete or an asphalt slurry seal at a 4 to 5 year interval to maintain a good pavement system because the local climate tends to weaken and oxidize the surface.

8.2 Rigid Pavement

For rigid pavements, the pavement surface for parking areas should consist of at least five (5) inches of concrete. The pavement surface for driveways, including dumpster pads, should consist of at least seven (7) inches of concrete.

Upon completion of subgrade preparation, a minimum eight (8) inch thick layer of sand is recommended for the base course. A geotextile fabric should be placed beneath the pavement joints, at a minimum.

The provided concrete thickness assumes an ultimate flexural strength for the concrete of at least 600 psi or 4,000 psi compressive strength. Expansion and construction joints should be doweled or keyed for good transfer of load and should be well sealed to prevent the intrusion or surface waters into the pavement base and natural subgrade. The use of wire mesh is left up to the designer.

8.3 Pavement Materials and Construction

Poor site conditions will develop unless good drainage is provided throughout the project duration. Proper site drainage should be maintained prior to, during, and after construction. Providing drainage during the construction process will facilitate construction by reducing the potential for compaction problems. Maintaining the drainage after construction will improve the life of the pavement by avoiding water softening of the foundation soils.

Prior to pavement construction, the site should be stripped of all debris, vegetation, etc., and proof rolled with a heavy wheeled vehicle to detect any "soft" spots. Any soft spots should be undercut at least 1 foot in parking areas and 2 feet in structure areas and backfilled with a structural fill. The geotextile fabric should be a nonwoven fabric with an apparent opening size (AOS) smaller than a U.S. No. 70 sieve.

The sand or stone should be compacted to a dry density at least equal to 95 percent of its maximum as determined by the Modified Proctor compaction test (ASTM D1557), or to a minimum relative density of 75 percent in accordance with ASTM D4253 and D4254. In-place density measurements should be taken to assure that this degree of compaction is achieved. The base may be placed and compacted in maximum 8 inch loose lifts and it should meet LA DOTD specifications for base course.

The methods, means, and sequence of construction are the responsibility of the contractor. It should be noted that our recommendations regarding concrete and material thicknesses are based on the assumed traffic loading conditions. Appropriate measures should be taken by the contractor to assure the integrity and performance of the pavements during and after construction.

9.0 INFILTRATION TESTS

We understand that green infrastructure features will be constructed onsite. These features are for stormwater management to aid in site drainage and to prevent ponding of water onsite. Gulf South proposed to perform four (4) percolation tests for the project. Only two (2) percolation tests were completed as is be discussed.

9.1 Guelph Permeameter

The Guelph Permeameter is an in-hole Constant-Head Permeameter. The permeameter uses the Marriotte Principle that involves measuring the steady state rate of water recharge into unsaturated soil from a cylindrical well hole, in which a constant depth (head) of water is maintained (Guelph Permeameter Operating Instructions, 2012). A constant head level in the well hole is established and maintained at the level of the bottom of the air tube. As the reservoir falls, a vacuum is created in the air space above the water. The vacuum is then partially relieved and water from the reservoir replenishes water in the well.

When a constant well height of water is established in a bored hole in soil, a "bulb" of saturated soil with specific dimensions is quickly established. Once the unique "bulb" shape is established, the outflow of water from the well reaches a steady-state flow rate, which is then measured and considered the hydraulic conductivity.

9.2 Discussion of Results

Four (4) percolation tests were proposed for this project. Only one (1) test yielded acceptable results. The locations of the percolation tests were also offset from the original spots due to encountered impenetrable debris in the upper 2 feet. Readings were taken in 2-minute and 5-minute intervals for a maximum time of 60 minutes.

Multiple attempts were made but water filled up when digging the holes, or had no change in water level height, or an increase in water height resulting in an invalid tests. We believe this is due to the shallow groundwater table

encountered onsite. Each well hole encountered groundwater at the approximate 2 foot depth below the ground surface.

Percolation test P-3 resulted in a valid test with an estimated hydraulic conductivity of **$3.35x10^{-5}$** inches/second.

10.0 CLOSING

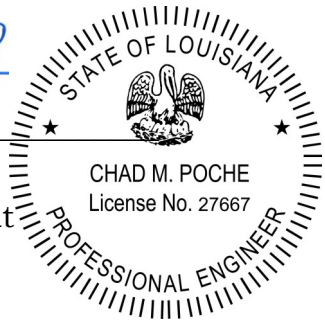
Gulf South is available to answer any questions you may have concerning this report. Should additional analyses be required or requested, additional fees may be necessary.

As previously discussed, Gulf South considers the materials testing and onsite inspection during construction an extension of our geotechnical exploration. Gulf South should be retained to provide the construction inspection services.

The issuance of this report completes the geotechnical exploration scope and Gulf South's involvement on the project. Retaining Gulf South as a vital member of the design team can add considerable value. Over the next few months, the project will incur many changes, challenges, and opportunities – all of which will occur without our knowledge and in some cases render our recommendations compromised or irrelevant. Gulf South's additional involvement will be a small price to pay for the peace of mind that any foundation, earthwork, and paving components of the project are fully integrated during design, resulting in potential cost savings and efficient construction. Please consider including Gulf South as a full member of your design team and throughout the project duration.

We appreciate the opportunity to provide this report and look forward to working with you again in the future.

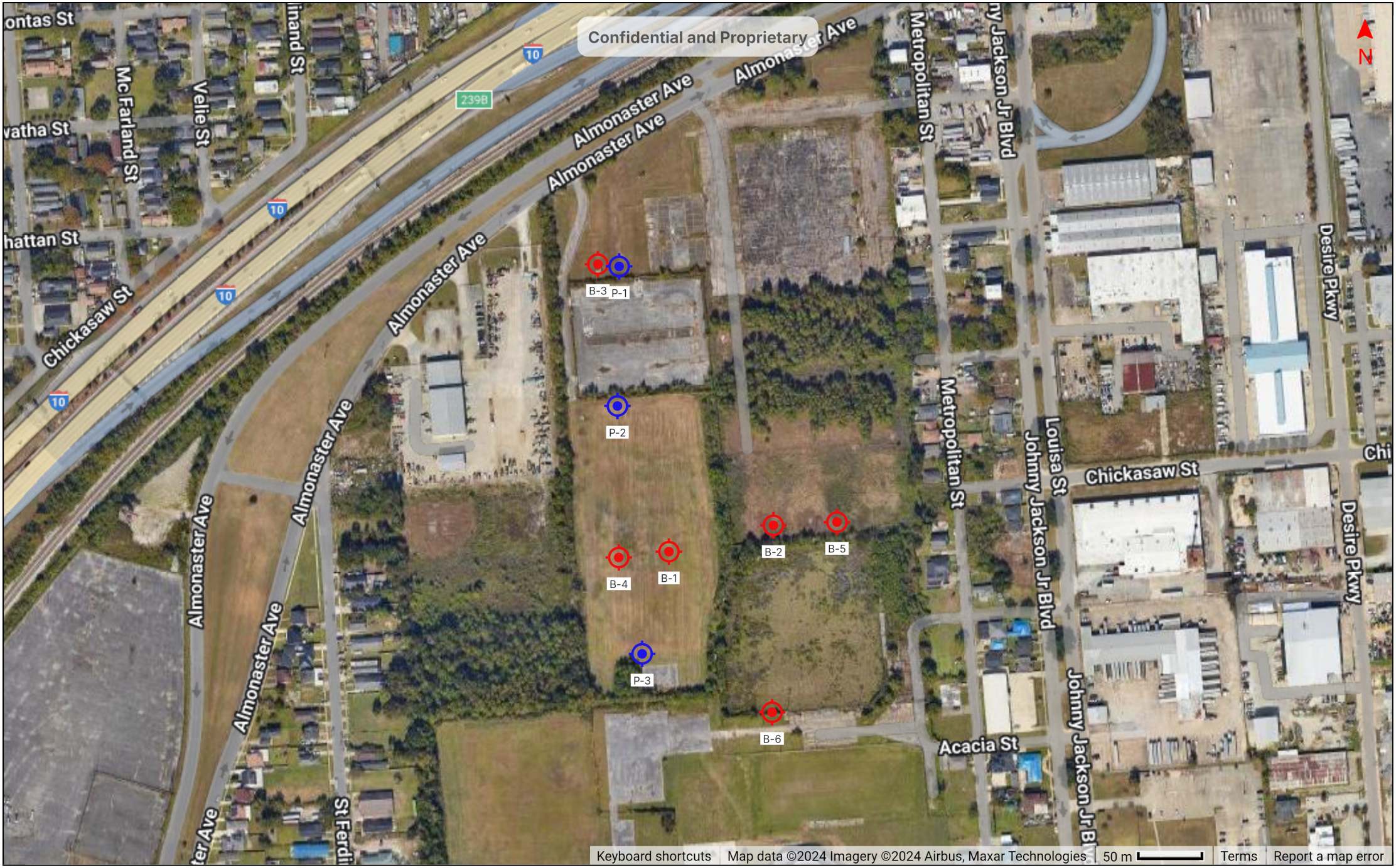
Sincerely,
GULF SOUTH ENGINEERING AND TESTING, INC.



CHAD M. POCHE, P.E
Executive Vice President

BRYSON S. BEARD, E.I.
Associate Geotechnical Engineer

FIGURES



GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

FIGURE NO. 1

PROJECT
Name: 9th Ward Stadium - Almonaster Ave.
Number: 24-053

LOCATION
29.997833, -90.038097
New Orleans, LA

SYMBOL KEY
- Soil Borings
- Percolation Tests

GEOTECHNICAL EXPLORATION

NOLA PUBLIC SCHOOLS
9TH WARD STADIUM
ALMONASTER AVENUE
NEW ORLEANS, LA

GULF SOUTH ENGINEERING AND TESTING PROJECT NO. 24-053

ALLOWABLE PILE LOAD CAPACITIES

DRIVEN, TREATED, TIMBER PILES

(ASSUMES THE EFFECTS OF NO MORE THAN 2 FEET OF FILL)

PILE TYPE AND SIZE (ASTM D25)	PILE LENGTH BELOW EXISTING GROUND SURFACE	ESTIMATED ALLOWABLE SINGLE PILE LOAD CAPACITIES IN TONS COMPRESSION FACTOR OF SAFETY = 2 TENSION FACTOR OF SAFETY = 3	
		COMPRESSION	TENSION
6-Inch Tip Diameter (8-inch Butt Diameter) Timber Piles	35 40 45	5 6 7	4 4 ½ 5
7-Inch Tip Diameter (12-inch Butt Diameter) Timber Piles	45 50 55 60	8 10 11 12	6 7 8 9

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Geotechnical & Materials Consultants

FIGURE NO. 2

Minimum Pile/Shaft Spacing

$SP = 0.05\ L_1 + 0.025\ L_2 + 0.0125\ L_3$

SP (ft.) = Center to center spacing of piles/shafts = (Min. 3.0 ft.)

L_1 = Pile/Shaft penetration in ft. up to 100 ft.

L_2 = Pile/Shaft penetration in ft. from 101 to 200 ft.

L_3 = Pile/Shaft penetration in ft. from 201 to 300 ft.

Allowable Group Capacity*

$$Q_a = \frac{P * L * c}{FSF} + \frac{2.6 * q_u * (1 + 0.2\ {}^{w}/_{b}) * A}{FSB}$$

P = Average perimeter of pile/shaft group (ft.)

L = Length of piles/shafts in group (ft.)

c = Average (weighted) shear strength (½ q_u) of soil throughout pile/shaft length (lbs./sq. ft.)

q_u = Unconfined compressive strength of soils below pile tips (lbs./sq.ft.)

w = Width of pile/shaft group at tip (ft.)

b = Length of pile/shaft group at tip (ft.)

A = Area of pile/shaft group at tip (sq. ft.)

FSF = Factor of safety for friction area = 2

FSB = Factor of safety for tip area = 3

*In no case should the cumulative single pile/shaft load capacity of the group be exceeded.

APPENDIX A

BORING LOGS

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants
15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.997833/-90.038097 SOIL BORING: B-1

Date Started:	05/29/2024	Date Completed:	05/29/2024	Lat Lng:	29.997833, -90.038097
Location Accuracy:	Tablet GPS	Project No:	24-053	Client Name:	NOLA Public Schools
Boring Diameter:	4 in	Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing, Inc.
Figure Number:	24-053	Hammer Drop:	30	Hammer Type:	Auto
Hammer Weight:	140	Logged By:	Ian Poche	Method:	Mud Rotary
Depth:	60'				

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: Truck; Tooling: Rotary Drill; Surface Elevation: 0.0'
			2-3-5 (8)			20.5			11.4		**FILL**, Loose, gray, **POORLY GRADED SAND** (**SP**), with trace organics — 2.0
			5-3-3 (6)			31.8			55.2		**FILL**, Medium Stiff, gray, **SANDY CLAY** (**CL**), with trace organics — 4.0
5			WOR (0)			23.1			22		**FILL**, Very Loose, gray, **CLAYEY SAND** (**SC**), with trace organics and gravel — 6.0
		0.50		0.119		56.3	104				Very Soft to Soft, gray, **FAT CLAY** (**CH**)
		0.50		0.359		59.8	103				- with trace sand and gravel
10		0.25		0.22	4	56.4	106	97-25-72			- with wood
		0.25		0.226	5	80.7	94				- with trace organics
15											- with trace organics
		0.25		0.088	6.7	60.9	96				
20											
		0.25				56.4			99.6		
25											
		0.25		0.146	10	72.2	99				
30											
		0.25		0.333	11.7	51.0	108		99.9		
35											
		0.25		0.361	13.3	79.6	97				40.0

Graphics Legend

- After waiting approx. 15 minute
- At Time of Drilling (ATD)
- SP
- CL
- SC
- CH
- SPT - Standard Penetration Tes
- ST - Shelby Tube

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

GULF SOUTH ENGINEERING AND TESTING, INC.
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15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.997833/-90.038097

SOIL BORING: B-1

Date Started:	05/29/2024	Date Completed:	05/29/2024	Lat Lng:	29.997833, -90.038097
Location Accuracy:	Tablet GPS	Project No:	24-053	Client Name:	NOLA Public Schools
Boring Diameter:	4 in	Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing, Inc.
Figure Number:	24-053	Hammer Drop:	30	Hammer Type:	Auto
Hammer Weight:	140	Logged By:	Ian Poche	Method:	Mud Rotary
Depth:	60'				

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Lab: Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: Truck Tooling: Rotary Drill Surface Elevation: 0.0'
											Very Soft to Soft, gray, **FAT CLAY** (**CH**)
											43.0
45		0.25				40.5			66.9		Very Soft, gray, **SANDY CLAY** (**CL**)
											48.0
50		0.25		0.504	16.7	59.2	106				Medium Stiff, gray, **FAT CLAY** (**CH**), with trace shell and sand
											53.0
55		0.25		0.174	18.3	67.1	99		85.6		Very Soft, gray, **FAT CLAY** (**CH**), with sand
60		0.25		0.144		44.1	106				60.0
											Boring completed 60 feet below the ground surface.

Graphics Legend

CH

CL

ST - Shelby Tube

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

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Geotechnical & Materials Consultants
15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.998017/-90.03725 SOIL BORING: B-2

Date Started:	07/08/2024	Date Completed:	07/08/2024	Lat Lng:	29.998017, -90.03725
Location Accuracy:	Tablet GPS	Project No:	24-053	Client Name:	NOLA Public Schools
Boring Diameter:	4 in	Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing
Logged By:	Kevin Daigle	Method:	Mud Rotary	Depth:	60'

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Lab: Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: buggy; Tooling: Rotary Drill; Surface Elevation: ~0.0'
		N/A				9.9			18.9		**FILL**, gray, **CLAYEY SAND** (**SC**), with shells, gravel, organics — 2.0
		1.25		0.947		54.1	107				Medium Stiff, gray, **FAT CLAY** (**CH**), with trace gravel and shells — 4.0
5		0.25		0.151		122.1	85	149-39-110			Very Soft, dark gray, **ORGANIC CLAY** (**OH**), with shells -with trace gravel and shell — 6.0
		0.25		0.144		73.0	99	111-20-91			Very Soft to Soft, gray, **FAT CLAY** (**CH**), with organics
		0.50				62.3					
10		0.25		0.27		81.3	95				
		0.25		0.318		79.1	100				
15											— 18.0
		0.25				46.5					Very Soft to Soft, gray, **FAT CLAY** (**CH**), with silt, trace sand
20											
		0.25		0.199		39.3	114				- with silt trace sand
25											
		0.25		0.212		54.6	106				
30											
		0.25		0.318		61.7	102				
35											
		0.25				65.9					- with trace silt — 40.0

Graphics Legend

- After waiting approx. 15 minutes
- At Time of Drilling (ATD)
- SC
- CH
- OH
- Auger - Auger Sample
- ST - Shelby Tube

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants
15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.998017/-90.03725 **SOIL BORING: B-2**

Date Started:	07/08/2024	Date Completed:	07/08/2024	Lat Lng:	29.998017, -90.03725
Location Accuracy:	Tablet GPS	Project No:	24-053	Client Name:	NOLA Public Schools
Boring Diameter:	4 in	Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing
Logged By:	Kevin Daigle	Method:	Mud Rotary	Depth:	60'

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Lab: Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: buggy Tooling: Rotary Drill Surface Elevation: ~0.0'
											Very Soft to Soft, gray, **FAT CLAY** (**CH**), with silt, trace sand
45		0.25		0.28		52.7	108				- with sand layers
50		0.50		0.449		44.4	112				- with sand seams
											53.0
55		0.50		0.345		33.7	118		40.4		Very Loose to Loose, gray, **CLAYEY SAND** (**SC**)
60		0.25		0.364	20	26.4	124		26.3		60.0
											Boring completed 60 feet below the ground surface.

Graphics Legend

CH

SC

ST - Shelby Tube

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants
15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.999847/-90.038672

SOIL BORING: B-3

Date Started:	05/29/2024	Lat Lng:	29.999847, -90.038672	Location Accuracy:	Tablet GPS
Project No:	24-053	Client Name:	NOLA Public Schools	Boring Diameter:	4 in
Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing, Inc.	Figure Number:	24-053
Hammer Drop:	18	Hammer Type:	Auto	Hammer Weight:	140
Logged By:	Ian Poche	Method:	Mud Rotary		

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Lab: Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: Truck; Tooling: Rotary Drill; Surface Elevation: ~0.6'
		N/A				12.6			25.1		**FILL**, gray and tan, **CLAYEY SAND** (**SC**), with trace gravel and shells
		N/A				8.3			18.9		4.0
5		1.00		0.794		42.6	110	78-21-57			Medium Stiff, gray, **FAT CLAY** (**CH**)
											6.0

Boring completed 6 feet below the ground surface.

Graphics Legend

SC

CH

ST - Shelby Tube

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

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Geotechnical & Materials Consultants
15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.997792/-90.038503 **SOIL BORING: B-4**

Date Started:	05/29/2024	Date Completed:	05/29/2024	Lat Lng:	29.997792, -90.038503
Location Accuracy:	Tablet GPS	Project No:	24-053	Client Name:	NOLA Public Schools
Boring Diameter:	4 in	Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing, Inc.
Figure Number:	24-053	Hammer Drop:	18	Hammer Type:	Auto
Hammer Weight:	140	Logged By:	Ian Poche	Method:	Mud Rotary
Depth:	6'				

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Lab: Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: Truck Tooling: Rotary Drill Surface Elevation: ~0.0'
		N/A				11.1			4.9		**FILL**, tan, **POORLY GRADED SAND** (**SP**), with trace organics
		N/A				17.9			10		4.0
5		1.00		0.364		57.1	101	94-29-65			Soft, light gray, **FAT CLAY** (**CH**) 6.0

Boring completed 6 feet below the ground surface.

Graphics Legend

SP

ST - Shelby Tube

CH

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants
15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.99804/-90.036736 **SOIL BORING: B-5**

Date Started:	07/08/2024	Date Completed:	07/08/2024	Lat Lng:	29.99804, -90.036736
Location Accuracy:	Tablet GPS	Project No:	24-053	Client Name:	NOLA Public Schools
Boring Diameter:	4 in	Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing
Logged By:	Kevin Daigle	Method:	Auger	Depth:	6'

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Lab: Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: Buggy Tooling: 14" Continuous Flight Auger Surface Elevation: ~0.1'
		N/A				12			22.7		**FILL**, gray, **CLAYEY SAND** (**SC**), with shell 2.0
		1.00				68.1		108-43-65			Soft, gray, **FAT CLAY** (**CH**), with organics
5		1.00		0.366		71.3	100	112-31-81			6.0

Boring completed 6 feet below the ground surface.

Graphics Legend

SC

CH

Auger - Auger Sample

ST - Shelby Tube

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

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Geotechnical & Materials Consultants
15 Veterans Memorial Blvd,
Kenner, LA
Office: +1 (504) 305-4401

9th Ward Stadium - Almonaster Ave.

Lat/Lon: 29.996708/-90.037261

SOIL BORING: B-6

Date Started:	05/29/2024	Date Completed:	05/29/2024	Lat Lng:	29.996708, -90.037261
Location Accuracy:	Tablet GPS	Project No:	24-053	Client Name:	NOLA Public Schools
Boring Diameter:	4 in	Driller:	Ross White	Drilling Firm:	Gulf South Engineering and Testing, Inc.
Figure Number:	24-053	Hammer Drop:	18	Hammer Type:	Auto
Hammer Weight:	140	Logged By:	Kevin Daigle	Method:	Mud Rotary
Depth:	6'				

Depth (ft)	Sample Type	Lab: Pocket Penetrometer (tsf)	Lab: Blow Counts (N/Refusal)	Lab: Compressive Strength (tsf)	Lab: Confining Pressure (PSI)	Lab: Moisture Content (%)	Lab: Wet Density (PCF)	Lab: Atterberg Limits (LL-PL-PI)	Lab: % Fines	Soil Graphic	Visual Classification and Remarks
											Rig Type: Truck Tooling: Rotary Drill Surface Elevation: ~0.0'
		0.25				5.9			5.7		**FILL**, tan, **POORLY GRADED SAND** (**SP**), with trace organics — 2.0
		0.25		0.385		76.1	96	140-40-100			Very Soft to Soft, dark gray, **FAT CLAY** (**CH**), with organics and wood
5		0.25		0.201		92.8	89	131-32-99			6.0

Boring completed 6 feet below the ground surface.

Graphics Legend

SP

ST - Shelby Tube

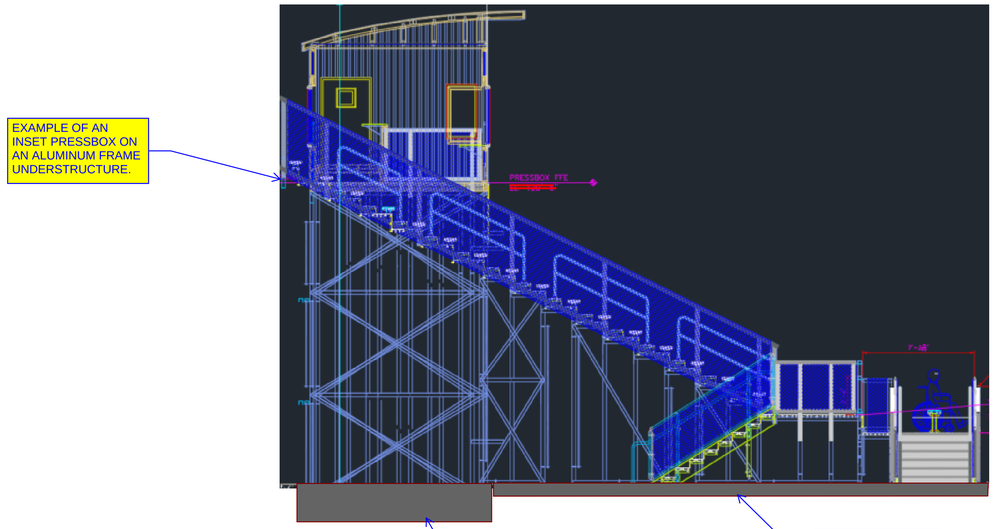
CH

REMARKS

-Boring backfilled per LA DEQ/DOTD requirements.

APPENDIX B

FURNISHED PLANS



EXAMPLE OF AN INSET PRESSBOX ON AN ALUMINUM FRAME UNDERSTRUCTURE.

SLAB FOR BLEACHER

MAT FOUNDATION UNDER PB (HIGHER LOADS, MORE OVERTURNING, SIZE TBD BASED ON FINAL LOADS AND SOIL CONDITIONS.

POSSIBLY USE TIMBER PILES UNDER PB

PRELIMINARY FRAME LOADING @ BLEACHER:

DL = 12 PSF
LL = 100 PSF
WIND +/- 40 PSF

FRAMES SPACED AT 6 FT OC

EQUATE TO LINE LOAD ON SLAB:

DL = 72 PLF
LL = 600 PLF
WL = +/- 240 PLF

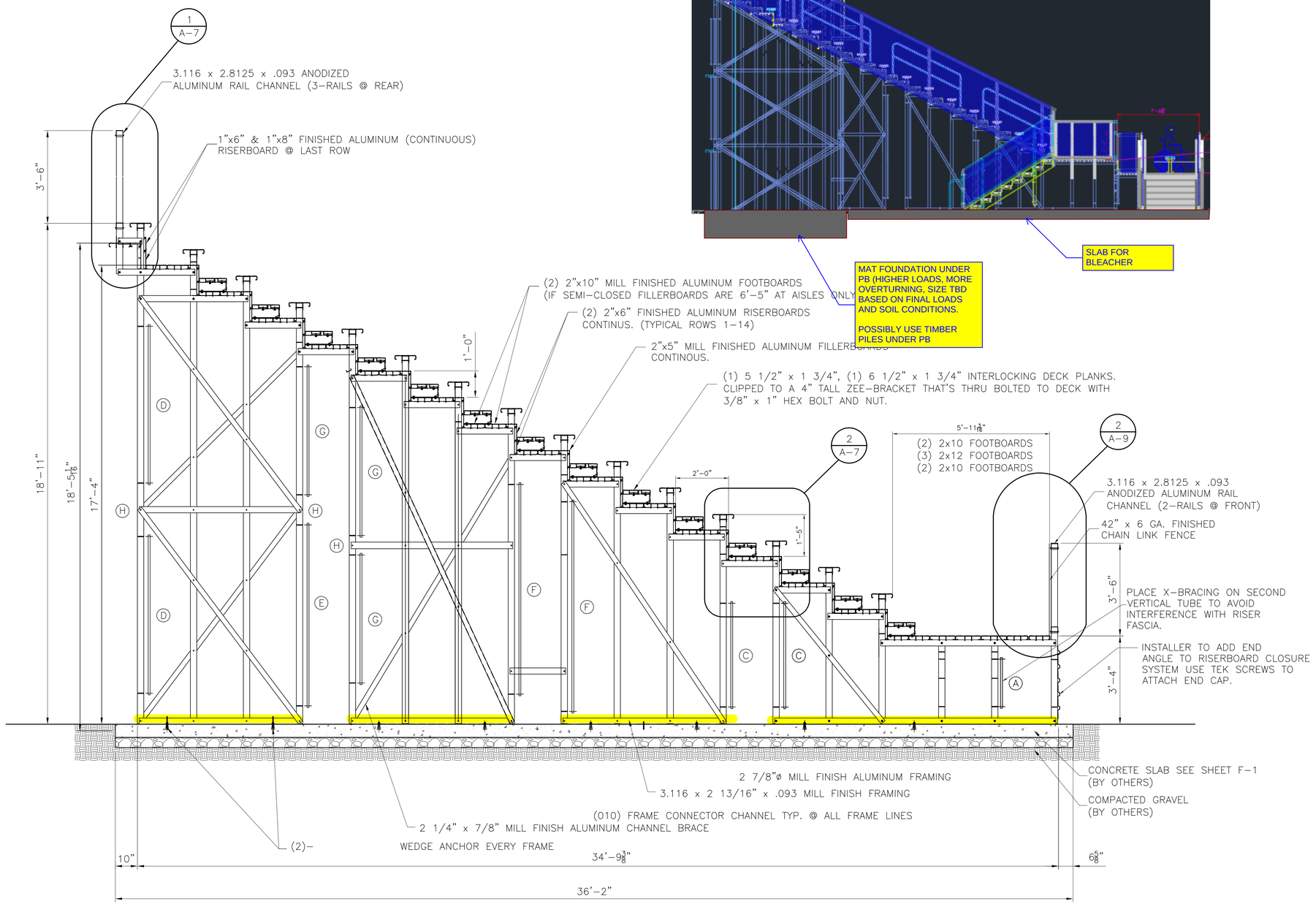
PRELIMINARY FRAME LOADING @ PBU:

DL = 60 PSF
LL = 50 PSF floor + 50 PSF roof (filming platform) = 100 PSF
WIND +/- 40 PSF

FRAMES SPACED AT 6 FT OC

EQUATE TO LINE LOAD ON SLAB:

DL = 360 PLF
LL = 600 PLF
WL = +/- 240 PLF



1/A–3 SECTION THRU BLEACHER
SCALE:

PRELIMINARY - NOT FOR CONSTRUCTION

PROJECT NAME:

DANT CLAYTON CORPORATION
1500 Bernheim Lane
Louisville, KY 40210
Telephone (502) 634-3626
www.DANTCLAYTON.COM

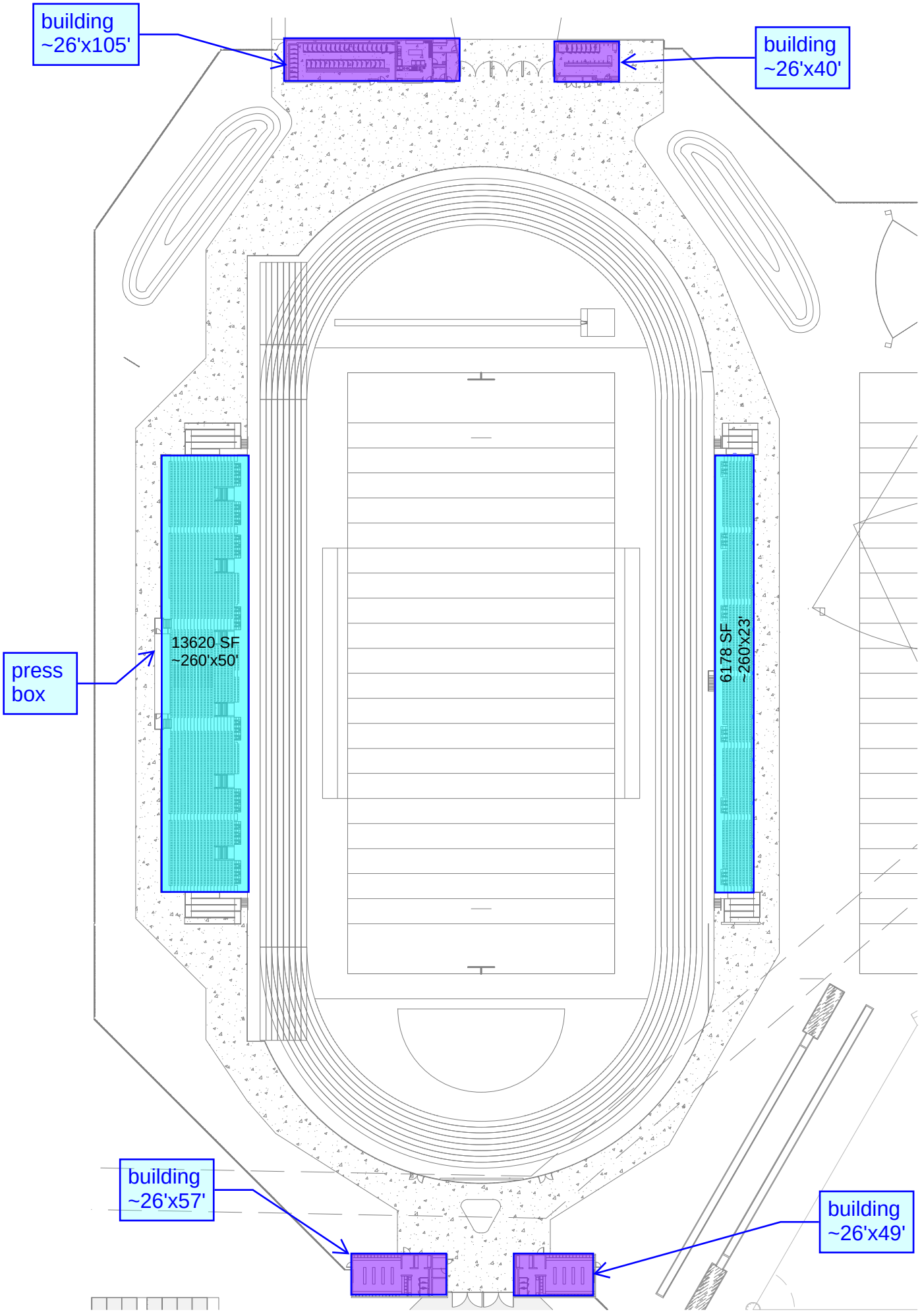
REVISIONS

REV. NO.	DATE	DESCRIPTION	INITIALS	ECO NUMBER
A				
B				
C				
D				
E				

NAME: MSWERLY
RELEASE DATE:
SCALE: AS NOTED
SHEET # / TOTAL: A-2 / 15
PRODUCT: ALS
STRUCTURE: Stand
DESIGN: 40
CLASS: Elevation
TYPE: Section
DESIGN TYPE:
OPERATION: End
PRIMARY:
SECONDARY:
FIGURE 1:
FIGURE 2:
FIGURE 3:
FIGURE 4:
R/H: 24.0000
R/E: 12.0000

SHEET NUMBER
A–3

PART NUMBER
0247463


building
~26'x105'
building
~26'x40'
press
box
13620 SF
~260'x50'
6178 SF
~260'x23'
building
~26'x57'
building
~26'x49'

GULF SOUTH

ENGINEERING AND TESTING, INC.

Geotechnical & Materials Consultants

15 Veterans Memorial Boulevard | Kenner LA 70062

p 504-305-4401

3121 S Darla Avenue | Gonzales LA 70737

p 225-450-3361

info@**gulfsoutheng.com**

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and other Division 01 Specification Sections, apply to this Section.

B. This Section shall complement and expand the requirements of the General Conditions and other Division 00 Sections. If anything in this Section conflicts with the requirements of the General Conditions, such requirements shall take precedence over the requirements of this Section. If anything in this Section conflicts with the requirements of other Division 01 sections, the most stringent requirements shall take precedence.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each Alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of Alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each Alternate. Indicate if Alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to Alternates.

C. Execute accepted Alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each Alternate. The descriptions contained in this Section are general in nature and are not intended to provide a complete definition of the scope of the requirements of the Base Bid or the Alternates. Refer to the drawings and specifications for the complete requirements of the Work.

PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

END OF SECTION 012300

SECTION 083313 - COILING COUNTER DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Counter door assemblies.
2. Fire-rated counter door assemblies.

B. Related Requirements:

1. Section 055000 "Metal Fabrications" for door-opening framing and corner guards.
2. Section 099123 "Interior Painting" for finish painting of factory-primed doors.

1.3 ACTION SUBMITTALS

A. Product Data: For each type and size of coiling counter door and accessory.

1. Include construction details, material descriptions, dimensions of individual components, profiles for slats, and finishes.

B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.

1. Include plans, elevations, sections, and mounting details.
2. Include details of equipment assemblies, and indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.

C. Samples for Initial Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.

1. Include similar Samples of accessories involving color selection.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and testing and inspecting agency.

1. Fire-Rated Door Inspector: Submit documentation of compliance with NFPA 80, section 5.2.3.1.
2. Submit copy of DHI Fire and Egress Door Assembly Inspector (FDAI) certificate.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For coiling counter doors to include in maintenance manuals.

B. Record Documents: For fire-rated doors, list of door numbers and applicable room name and number to which door accesses.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.

1. Maintenance Proximity: Not more than two hours' normal travel time from Installer's place of business to Project site.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain coiling counter doors from single source from single manufacturer.

1. Obtain operators and controls from coiling counter door manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Rated Door Assemblies: Complying with NFPA 80; listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at as close to neutral pressure as possible according to NFPA 252 or UL 10B.

1. Oversize Fire-Rated Door Assemblies: For units exceeding sizes of tested assemblies, provide certification by a qualified testing agency that doors comply with standard construction requirements for tested and labeled fire-rated door assemblies except for size.

2.3 COUNTER DOOR ASSEMBLY

A. Counter Door: Coiling counter door formed with curtain of interlocking metal slats.

1. Basis-of-Design Product: Subject to compliance with requirements, Cookson Company (Model ESC30 - insulated) or comparable product by one of the following:

a. Overhead Door Corporation
b. Wayne Dalton

B. Operation Cycles: Door components and operators capable of operating for not less than 20,000. One operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.

1. Include tamperproof cycle counter.

C. STC Rating: 26.

D. Curtain R-Value: 4.5 deg F x h x sq. ft./Btu.

E. Door Curtain Material: Stainless steel.

F. Door Curtain Slats: Flat profile slats of 1-1/2-inch center-to-center height.

1. Gasket Seal. Manufacturer's standard continuous gaskets between slats.

G. Bottom Bar: Manufacturer's standard continuous channel or tubular shape, fabricated stainless steel and finished to match door.

H. Curtain Jamb Guides: Stainless steel with exposed finish matching curtain slats. Provide continuous integral wear strips to prevent metal-to-metal contact and to minimize operational noise.

I. Hood: Stainless steel.

1. Shape: Square
2. Mounting: Face of wall.

J. Integral Frame, Hood, and Fascia: Stainless steel.

1. Mounting: Face of wall.

K. Sill Configuration: Integral metal sill.

L. Locking Devices: Equip door with slide bolt for padlock.

1. Locking Device Assembly:

a. Slide bolt locks suitable for use with padlock.
b. Two point dead locks with mortise cylinders.

2. Manual Door Operator: Push-up operation.
3. Provide operator with through-wall shaft operation.

M. Curtain Accessories: Equip door with weatherseals.

N. Door Finish:

1. Stainless Steel Finish: ASTM A480/A480M No. 2B (bright, cold rolled).
2. Interior Curtain-Slat Facing: Match finish of exterior curtain-slat face.

2.4 MATERIALS, GENERAL

2.5 DOOR CURTAIN MATERIALS AND FABRICATION

A. Door Curtains: Fabricate coiling counter door curtain of interlocking metal slats in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated, and as follows:

1. Stainless Steel Door Curtain Slats: ASTM A240/A240M or ASTM A666, Type 304; sheet thickness of **0.025 inch**; and as required.

2.6 HOODS

A. General: Form sheet metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting that projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.

1. Stainless Steel: **0.025-inch-** thick, stainless steel sheet, Type 304, complying with ASTM A240/A240M or ASTM A666.

B. Integral Frame, Hood, and Fascia: Welded sheet metal assembly of the following sheet metal(s):

1. Stainless Steel: Type 304, complying with ASTM A240/A240M or ASTM A666.

2.7 LOCKING DEVICES

A. Slide Bolt: Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on both left and right jamb sides, operable from coil side.

B. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded dead bolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.

1. Lock Cylinders: As standard with manufacturer.
2. Keys: Two for each cylinder.

2.8 CURTAIN ACCESSORIES

A. Weatherseals: Equip door with weather-stripping gaskets fitted to entire perimeter of door for air-resistant installation unless otherwise indicated.

1. At door head, use **1/8-inch-** thick, replaceable, continuous-sheet baffle secured to inside of hood or field-installed on the header.
2. At door jambs, use replaceable, adjustable, continuous, flexible, **1/8-inch-** thick seals of flexible vinyl, rubber, or neoprene.

B. Astragal: Equip each door bottom bar with a replaceable, adjustable, continuous, compressible gasket of flexible vinyl, rubber, or neoprene as a cushion bumper.

C. Push/Pull Handles: Equip each push-up-operated or emergency-operated door with lifting handles on each side of door, finished to match door.

2.9 COUNTER DOOR ACCESSORIES

A. Integral Metal Sill: Fabricate sills as integral part of frame assembly of Type 304 stainless steel in manufacturer's standard thickness with ASTM A480/A480M No. 4 finish.

2.10 COUNTERBALANCE MECHANISM

A. General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.

B. Counterbalance Barrel: Fabricate spring barrel of manufacturer's standard hot-formed, structural-quality, seamless or welded carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up curtain without distortion of slats and to limit barrel deflection to not more than **0.03 in./ft.** of span under full load.

C. Counterbalance Spring: One or more oil-tempered, heat-treated steel helical torsion springs. Size springs to counterbalance weight of curtain, with uniform adjustment accessible from outside barrel. Secure ends of springs to barrel and shaft with cast-steel barrel plugs.

1. Fire-Rated Doors: Equip with auxiliary counterbalance spring and prevent tension

release from main counterbalance spring when automatic closing device operates.

D. Torsion Rod for Counterbalance Shaft: Fabricate of manufacturer's standard cold-rolled steel, sized to hold fixed spring ends and carry torsional load.

E. Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled steel plate.

2.11 MANUAL DOOR OPERATORS

A. General: Equip door with manual door operator by door manufacturer.

B. Push-up Door Operation: Design counterbalance mechanism so that required lift or pull for door operation does not exceed **25 lbf**.

2.12 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM/NOMMA 500 for recommendations for applying and designating finishes.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.13 STAINLESS STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.

1. Run grain of directional finishes with long dimension of each piece.
2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
3. Directional Satin Finish: ASTM A480/A480M No. 4.

C. Bright, Cold-Rolled, Unpolished Finish: ASTM A480/A480M No. 2B.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates areas and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the

Work.

B. Examine locations of electrical connections.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Install coiling counter doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.

B. Install coiling counter doors, hoods, controls, and operators at the mounting locations indicated for each door.

C. Fire-Rated Doors: Install according to NFPA 80.

D. Smoke-Control Doors: Install according to NFPA 80 and NFPA 105.

3.3 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections and to furnish reports to Architect.

B. Perform the following tests and inspections with the assistance of a factory-authorized service representative:

1. Test door release, closing, and alarm operations when activated by smoke detector or building's fire-alarm system. Test manual operation of closed door. Reset door-closing mechanism after successful test.
2. Fire-Rated Door Inspections: Inspect each fire-rated door in accordance with NFPA 80, section 5.2.

C. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.

D. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

E. Prepare and submit separate inspection report for each fire-rated door assembly indicating compliance with each item listed in NFPA 80 and NFPA 101.

3.4 STARTUP SERVICE

A. Engage a factory-authorized service representative to perform startup service.

1. Complete installation and startup checks according to manufacturer's written instructions.
2. After electrical circuitry has been energized, operate doors to confirm proper motor rotation and door performance.
3. Test and adjust controls and safety devices. Replace damaged and malfunctioning controls and equipment.

3.5 ADJUSTING

A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.

B. Lubricate bearings and sliding parts as recommended by manufacturer.

3.6 MAINTENANCE SERVICE

A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service shall include 12 months' full maintenance by skilled employees of coiling-door Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door operation. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.

1. Perform maintenance, including emergency callback service, during normal working hours.

3.7 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain coiling counter doors.

END OF SECTION 083313

SECTION 096723 - RESINOUS FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Decorative resinous flooring systems.

B. Related Sections:

1. Section 079200 "Joint Sealants" for sealants installed at joints in resinous flooring systems.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include manufacturer's technical data, application instructions, and recommendations for each resinous flooring component required.

B. LEED Submittals:

1. Refer to Section 013520, LEED Requirements, for all LEED submittal requirements.

C. Samples for Initial Selection: For each type of exposed finish required.

D. Samples for Verification: For each resinous flooring system required, **6 inches** square, applied to a rigid backing by Installer for this Project.

E. Product Schedule: For resinous flooring.

1.4 INFORMATIONAL SUBMITTALS

A. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.

B. Material Certificates: For each resinous flooring component, from manufacturer.

C. Material Test Reports: For each resinous flooring system.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For resinous flooring to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.

1.8 PROJECT CONDITIONS

A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.

B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.

C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application unless manufacturer recommends a longer period.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Desco
2. PPG Industries, Inc.

3. Tnemec Company, Inc.
4. Valspar Flooring.
5. Resuflor Deco Quartz

2.2 MATERIALS

A. VOC Content of Resinous Flooring: Provide resinous flooring systems, for use inside the weatherproofing system, that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

1. Resinous Flooring: 100 g/L.

2.3 DECORATIVE RESINOUS FLOORING

A. Resinous Flooring: Abrasion-, impact- and chemical-resistant, decorative-aggregate-filled, epoxy-resin-based, monolithic floor surfacing designed to produce a seamless floor and integral cove base.

B. System Characteristics:

1. Color and Pattern: As selected by Architect from manufacturer's full range.
2. Wearing Surface: Textured for slip resistance.
3. Overall System Thickness: **1/8 inch**.

C. Body Coats:

1. Resin: Epoxy.
2. Formulation Description: 100 percent solids.
3. Application Method: Self-leveling slurry with broadcast aggregates Troweled or screeded.

    a. Thickness of Coats: **1/16 inch**.
    b. Number of Coats: Two.

4. Aggregates: Colored quartz (ceramic-coated silica).

D. Topcoat: Sealing or finish coats.

1. Resin: Epoxy.
2. Formulation Description: 100 percent solids.
3. Type: Clear.
4. Finish: Matte.
5. Number of Coats: Two.

E. System Physical Properties: Provide resinous flooring system with the following minimum

physical property requirements when tested according to test methods indicated:

1. Compressive Strength: per ASTM C 579.
2. Tensile Strength: per ASTM C 307.
3. Flexural Modulus of Elasticity: per ASTM C 580.
4. Water Absorption: per ASTM C 413.
5. Coefficient of Thermal Expansion: per ASTM C 531.
6. Indentation: percent maximum per MIL-D-3134.
7. Impact Resistance: No chipping, cracking, or delamination and not more than **1/16-inch** permanent indentation per MIL-D-3134.
8. Resistance to Elevated Temperature: No slip or flow of more than **1/16 inch** per MIL-D-3134.
9. Abrasion Resistance: maximum weight loss per ASTM D 4060.
10. Flammability: Self-extinguishing per ASTM D 635.
11. Critical Radiant Flux: 0.45 W/sq. cm or greater per NFPA 253.
12. Hardness: , Shore D per ASTM D 2240.
13. Bond Strength: , 100 percent concrete failure per ACI 503R.

2.4 ACCESSORIES

A. Primer: Type recommended by manufacturer for substrate and body coats indicated.

1. Formulation Description: 100 percent solids.

B. Waterproofing Membrane: Type recommended by manufacturer for substrate and primer and body coats indicated.

1. Formulation Description: 100 percent solids.

C. Reinforcing Membrane: Flexible resin formulation that is recommended by manufacturer for substrate and primer and body coats indicated and that prevents substrate cracks from reflecting through resinous flooring.

1. Formulation Description: 100 percent solids.

a. Provide fiberglass scrim embedded in reinforcing membrane.

D. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.

PART 3 - EXECUTION

3.1 PREPARATION

A. General: Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for resinous flooring application.

B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.

1. Roughen concrete substrates as follows:

    a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
    b. Comply with ASTM C 811 requirements unless manufacturer's written instructions are more stringent.

2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written instructions.
3. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.

    a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of **3 lb of water/1000 sq. ft.** of slab area in 24 hours.
    b. Perform plastic sheet test, ASTM D 4263. Proceed with application only after testing indicates absence of moisture in substrates.
    c. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.

4. Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.

C. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.

E. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written instructions.

3.2 APPLICATION

A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.

1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
3. At substrate expansion and isolation joints, comply with resinous flooring manufacturer's written instructions.

B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.

C. Apply waterproofing membrane, where indicated, in manufacturer's recommended thickness.

D. Apply reinforcing membrane to substrate cracks.

E. Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and details including those for taping, mixing, priming, troweling, sanding, and topcoating of cove base. Round internal and external corners.

1. Integral Cove Base: **4 inches** high.

F. Apply self-leveling slurry body coats in thickness indicated for flooring system.

1. Broadcast aggregates at rate recommended by manufacturer and, after resin is cured, remove excess aggregates to provide surface texture indicated.

G. Apply troweled or screeded body coats in thickness indicated for flooring system. Hand or power trowel and grout to fill voids. When cured, remove trowel marks and roughness using method recommended by manufacturer.

H. Apply grout coat, of type recommended by resinous flooring manufacturer, to fill voids in surface of final body coat and to produce wearing surface indicated.

I. Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer.

3.3 FIELD QUALITY CONTROL

A. Material Sampling: Owner may at any time and any number of times during resinous flooring application require material samples for testing for compliance with requirements.

3.4 PROTECTION

A. Protect resinous flooring from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.

END OF SECTION 096723

SECTION 105113 - METAL LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Welded athletic lockers.
2. Locker benches.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal locker and bench.

B. Shop Drawings: For metal lockers.

1. Include plans, elevations, sections, and attachment details.
2. Show locker trim and accessories.
3. Include locker identification system and numbering sequence.

C. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available.

D. Samples for Verification: For the following products, in manufacturer's standard size:

1. Lockers and equipment.
2. Locker benches.

E. Product Schedule: For lockers. Use same designations indicated on Drawings.

1.3 INFORMATIONAL SUBMITTALS

A. Sample Warranty: For special warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver metal lockers until spaces to receive them are clean, dry, and ready for their installation.

1.6 FIELD CONDITIONS

A. Field Measurements: Verify actual dimensions of recessed openings by field measurements before fabrication.

1.7 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of work specified in other Sections to ensure that metal lockers can be supported and installed as indicated.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain metal lockers, locker benches, and accessories from single source from single locker manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Accessibility Standard: For lockers and locker benches indicated to be accessible, comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design".

2.3 WELDED ATHLETIC LOCKERS

A. Basis-of-Design Product: Subject to compliance with requirements, provide All Welded Double Tier Lockers with Perforated Doors by Jorgenson Lockers or comparable product by one of the following:

1. Art Metal Products
2. LockersMFG
3. Debourgh Manufacturing

B. Perforated Doors: One piece; fabricated from 16 gauge nominal-thickness steel sheet with manufacturer's standard diamond perforations; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.

1. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches wide; welded to inner face of doors.

C. Body: Assembled by welding body components together. Fabricate from unperforated steel sheet with thicknesses as follows:

1. Tops and Bottoms: 18 gauge minimum nominal thickness, with single bend at edges.
2. Backs: 18 gauge minimum nominal thickness.
3. Shelves: 18 gauge minimum nominal thickness, with double bend at front and single bend at sides and back.
4. Overall dimensions – 72” high x 18” wide x 18” deep.

D. Unperforated Sides: Fabricated from 18 gauge minimum nominal-thickness steel sheet.

E. Frames: Channel formed; fabricated from 16 gauge nominal-thickness steel sheet or 0.097-inch nominal-thickness steel angles; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral, full-height door strikes on vertical main frames.

F. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.

1. Knuckle Continuous Hinges: Steel, full loop, tight pin; minimum 2 inches high.

G. Recessed Door Handle and Latch: Stainless steel cup with integral door pull, recessed so locking device does not protrude beyond door face; pry and vandal resistant.

1. Multipoint Latching: Finger-lift latch control designed for use with built-in combination locks, built-in cylinder locks, or padlocks; positive automatic latching and prelocking.

a. Latch Hooks: Equip doors 48 inches and higher with three latch hooks and doors less than 48 inches high with two latch hooks; fabricated from 0.120-inch nominal-thickness steel sheet; welded to full-height door strikes; with resilient silencer on each latch hook.
b. Latching Mechanism: Manufacturer's standard, rattle-free latching mechanism and moving components isolated to prevent metal-to-metal contact, and incorporating a prelocking device that allows locker door to be locked while door is open and then closed without unlocking or damaging lock or latching mechanism.

H. Hooks: Manufacturer's standard ball-pointed, aluminum or steel; zinc plated.

I. Materials:

1. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B, suitable for exposed applications.

J. Finish: Baked enamel or powder coat.

1. Color: As selected by Architect from manufacturer's full range.

2.4 LOCKER BENCHES

A. Basis-of-Design Product: Subject to compliance with requirements, provide ADA Locker Room Bench by SchoolLockers.com, A division of Jorgenson Industrial Companies or comparable product by one of the following:

1. Art Metal Products
2. ASI Storage Solutions

B. Provide bench units with overall assembly height of 17-1/2 inches.

C. Bench Tops: Manufacturer's standard one-piece units, with rounded corners and edges.

1. Size: Minimum 9-1/2 inches wide by 1-1/4 inches thick except provide 20- to 24-inch-wide tops where accessible benches are indicated.
2. Laminated clear hardwood with one coat of clear sealer on all surfaces and one coat of clear lacquer on top and sides.

D. Fixed-Bench Pedestals: Manufacturer's standard supports, with predrilled fastener holes for attaching bench top and anchoring to floor, complete with fasteners and anchors, and as follows:

1. Tubular Steel:

a. 1-1/2-inch- diameter steel tubing threaded on both ends, with standard pipe flange at top and bell-shaped cast-iron base; with baked-enamel or powder-coat finish; anchored with exposed fasteners.
b. 1-1/4-inch- diameter steel tubing, with 0.1265-inch- thick steel flanges welded at top and base; with baked-enamel finish; anchored with exposed fasteners.
c. Color: As selected by Architect from manufacturer's full range.

E. Materials:

1. Steel Tube: ASTM A500/A500M, cold rolled.

a. Hardwood Plywood: 0.05 ppm.
b. Particleboard: 0.09 ppm.
c. MDF More Than 5/16 Inch (8 mm) Thick: 0.11 ppm.
d. MDF 5/16 Inch (8 mm) or Less in Thickness: 0.13 ppm.

2.5 FABRICATION

A. Fabricate metal lockers square, rigid, without warp, and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.

1. Form body panels, doors, shelves, and accessories from one-piece steel sheet unless otherwise indicated.
2. Provide fasteners, filler plates, supports, clips, and closures as required for complete installation.

B. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments.

C. Equipment: Provide each locker with an identification plate and the following equipment:

1. Double-Tier Units: One double-prong ceiling hook and two single-prong wall hooks.
2. Open-Front Athletic Lockers: Two single-prong wall hooks bolted to locker back and coat rod.

D. Welded Construction: Factory preassemble metal lockers by welding all joints, seams, and connections; with no bolts, nuts, screws, or rivets used in assembly of main locker groups. Factory weld main locker groups into one-piece structures. Grind exposed welds smooth and flush.

E. Accessible Lockers: Fabricate as follows:

1. Locate bottom shelf no lower than 15 inches above the floor.
2. Where hooks, coat rods, or additional shelves are provided, locate no higher than 48 inches above the floor.

2.6 ACCESSORIES

A. Fasteners: Zinc- or nickel-plated steel, slotless-type, exposed bolt heads; with self-locking nuts or lock washers for nuts on moving parts.

B. Anchors: Material, type, and size required for secure anchorage to each substrate.

1. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls for corrosion resistance.
2. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine walls and floors or support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install lockers level, plumb, and true; shim as required, using concealed shims.

1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 36 inches o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.
2. Anchor single rows of metal lockers to walls near top and bottom of lockers.
3. Anchor back-to-back metal lockers to floor.

B. Welded Lockers: Connect groups together with manufacturer's standard fasteners, with no exposed fasteners on face frames.

C. Equipment:

1. Attach hooks with at least two fasteners.
2. Identification Plates: Identify metal lockers with identification indicated on Drawings.

    a. Attach plates to each locker door, near top, centered, with at least two aluminum rivets.
    b. Attach plates to upper shelf of each open-front metal locker, centered, with a least two aluminum rivets.

D. Fixed Benches: Provide no fewer than two pedestals for each bench, uniformly spaced not more than 72 inches apart. Securely fasten tops of pedestals to undersides of bench tops, and anchor bases to floor.

3.3 ADJUSTING

A. Clean, lubricate, and adjust hardware. Adjust doors and latches to operate easily without binding. Verify that integral locking devices operate properly.

3.4 PROTECTION

A. Protect metal lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit use during construction.

B. Touch up marred finishes, or replace metal lockers that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

END OF SECTION 105113

SECTION 107516 - GROUND-SET FLAGPOLES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes ground-set flagpoles made from aluminum.

B. Owner-Furnished Material: Flags.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, operating characteristics, fittings, accessories, and finishes for flagpoles.

B. Shop Drawings: For each flagpole.

1. Include the following

a. Plans, elevations, and attachment details. Show general arrangement, jointing, fittings, accessories, grounding, anchoring, and support.
b. Section, and details of foundation system.

C. Delegated Design Submittals: For flagpoles.

1.3 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For flagpoles to include in operation and maintenance manuals.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Spiral wrap flagpoles with heavy paper and enclose in a hard fiber tube or other protective container.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain flagpoles as complete units, including fittings, accessories, bases, and anchorage devices, from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design flagpole assemblies.

B. Structural Performance: Flagpole assemblies, including anchorages and supports, to withstand design loads indicated within limits and under conditions indicated.

1. Wind Loads: Determine according to NAAMM FP 1001. Basic wind speed for Project location is noted on the drawings.
2. Base flagpole design on polyester flags of maximum standard size suitable for use with flagpole or flag size indicated, whichever is more stringent.

C. Exposed Height: 35 feet

D. Construct flagpoles in one piece if possible. If more than one piece is necessary, comply with the following:

1. Fabricate shop and field joints without using fasteners, screw collars, or lead calking.
2. Provide flush hairline joints using self-aligning, snug-fitting, internal sleeves.

E. Metal Foundation Tube: Manufacturer's standard corrugated-steel foundation tube, 0.060-inch wall thickness with 3/16-inch steel bottom plate and support plate; 3/4-inch- diameter, steel ground spike; and steel centering wedges welded together. Galvanize foundation tube after assembly. Furnish loose hardwood wedges at top of foundation tube for plumbing pole.

1. Flashing Collar: Same material and finish as flagpole.

F. Sleeve for Aluminum Flagpole: PVC pipe foundation sleeve, made to fit flagpole, for casting into concrete foundation.

1. Flashing Collar: Same material and finish as flagpole.

2.3 ALUMINUM FLAGPOLES

A. Aluminum Flagpoles: Cone-tapered flagpoles fabricated from pipe, tube, or plate complying with ASTM A312/A312M, ASTM A269, or ASTM A666, Type 304.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Acme Lingo Flagpoles
    b. Ewing Flagpole Co., Inc.; Ewing Group Company
    c. Pole-Tech Co., Inc.

B. Exposed Height: 35 feet.

C. Construct flagpoles in one piece if possible. If more than one piece is necessary, comply with the following:

1. Fabricate shop and field joints without using fasteners, screw collars, or lead calking.
2. Provide flush hairline joints using self-aligning, snug-fitting, internal sleeves.

D. Metal Foundation Tube: Manufacturer's standard corrugated-steel foundation tube, 0.060-inch wall thickness with 3/16-inch steel bottom plate and support plate; 3/4-inch- diameter, steel ground spike; and steel centering wedges welded together. Galvanize foundation tube after assembly. Furnish loose hardwood wedges at top of foundation tube for plumbing pole.

1. Flashing Collar: Same material and finish as flagpole.

2.4 FITTINGS

A. Finial Ball: Flush-seam ball, sized as indicated or, if not indicated, to match flagpole-butt diameter.

1. Spun aluminum, finished to match flagpole.

B. External Halyard: Ball-bearing, nonfouling, revolving truck assembly of cast metal with continuous 5/16-inch- diameter, braided polypropylene halyard and **9-inch** cast-metal cleats with fasteners. Finish exposed metal surfaces to match flagpole.

1. Halyards and Cleats: One at each flagpole.
2. Halyard Flag Snaps: Stainless steel swivel snap hooks. Furnish two per halyard.

2.5 MISCELLANEOUS MATERIALS

A. Drainage Material: Crushed stone, or crushed or uncrushed gravel; coarse aggregate.

B. Sand: ASTM C33/C33M, fine aggregate.

C. Elastomeric Joint Sealant: Single-component neutral-curing silicone joint sealant complying with requirements in Section 079200 "Joint Sealants."

D. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

2.6 ALUMINUM FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

PART 3 - EXECUTION

3.1 PREPARATION

A. Prepare uncoated metal flagpoles that are set in foundation tubes by painting below-grade portions with a heavy coat of bituminous paint.

B. Foundation Excavation: Excavate to neat clean lines in undisturbed soil. Remove loose soil and foreign matter from excavation and moisten earth before placing concrete. Place and compact drainage material at excavation bottom.

C. Provide forms where required due to unstable soil conditions and for perimeter of flagpole base at grade. Secure and brace forms to prevent displacement during concreting.

D. Foundation Tube: Place foundation tube, center, and brace to prevent displacement during concreting. Place concrete. Plumb and level foundation tube and allow concrete to cure.

E. Place concrete, as specified in Section 033000 "Cast-in-Place Concrete." Compact concrete in place by using vibrators. Moist-cure exposed concrete for no fewer than seven days or use nonstaining curing compound.

F. Trowel exposed concrete surfaces to a smooth, dense finish, free of trowel marks, and uniform in texture and appearance. Provide positive slope for water runoff to perimeter of concrete base.

3.2 FLAGPOLE INSTALLATION

A. General: Install flagpoles where indicated and according to Shop Drawings and manufacturer's written instructions.

B. Foundation Tube: Place flagpole in tube, seated on bottom plate between steel centering wedges, and install hardwood wedges to secure flagpole in place. Place and compact sand in foundation tube and remove hardwood wedges. Seal top of foundation tube with a 2-inch layer of elastomeric joint sealant and cover with flashing collar.

END OF SECTION 107516

SECTION 133419 - PRESS BOX

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. Football / Soccer Press Box: Premanufactured press box with camera deck to be installed on pre-engineered west side grandstand.

B. Track & Field Press Box: Premanufactured press box with camera deck to be installed on pre-engineered grandstand - **(for reference only – not in scope)**

1.2 RELATED WORK/RELATED SECTION

A. Section 133416 “Permanent Grandstands” for stadium seating.

1.3 SUBMITTALS

A. Bidders with any deviation from the specifications must comply with the following requirements seven (7) days prior to the bid opening.

1. Plan view and wall section showing complete detail of layout, connection and trim detail.
2. Schedule of Work Experience, including names of contacts and phone numbers; 10 jobs minimum within the last five (5) years.
3. List of three (3) similar jobs within the past two (2) years – should owners (3 persons maximum) request a site visitation to these jobs, it will be at the bidder’s expense.
4. Resume including Corporate Officers, Sales Representatives, Technical Advisor, Project Manager, and Job site Superintendent.
5. Project schedule, including phasing with other trades and designation for all tasks, milestone dates for drawing submittal, fabrication time, key material delivery dates and designated dates of installation.
6. Shop drawings stamped and signed by a Professional Engineer licensed in the state of installation.

B. Approval Drawings: Submit for review detailed approval drawings as follows:

1. Drawings shall include at a minimum:
   a. All dead, live and other applicable loads used in the design.
   b. Detailed and dimensioned layout plans, framing plans, electrical plans, pick plans, roof plans and finish plans.
   c. Sections and details showing complete methods of assembly and anchorage.
   d. Connection details showing size, type, and grade of all plates, bearings,

inserts and anchors.
e. Description of all loose and installed hardware, plates, inserts, etc.
f. Finishes.

2 All approval drawings submitted shall be sealed by a professional engineer who is licensed in the state where the project is located.

3 Coordination of Contract Documents and Work:
a. Coordinate the design and installation of pressbox products and systems with interfacing and adjoining construction.
b. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts and items with integral anchors that are to be embedded in concrete.

C. Delegated Design Engineering Calculations: Calculations submittal for products indicated to demonstrate conformance with specified design loads, element stiffness and performance requirements including structural analysis data signed and sealed by the professional engineer responsible for their preparation licensed in the state where the project is located.

1 Pressbox Structural Design:
a. Provide for review design calculations for dead load, live load, wind load, and vibration control.

2 Railings and guardrail inserts and connections: Shall be designed to resist design load reactions for all railings and guardrails. See related specification sections for design loads.

D. Samples for Verification: For each type of exposed material, color, finish and texture indicated below:

1 Exterior Finishes: Manufacturer's standard colors, vinyl siding options available.
2 Interior Finishes: Manufacturer's grey/tan package.

E. Warranty: Sample of standard warranty.

1.4 DESIGN CRITERIA

A. Delegated Engineering Responsibility: Contractor shall employ a qualified professional engineer licensed in the state where the project is located to provide engineering for products and systems as required to meet design intent of Contract Documents including, but not limited to, the following:

1 Preparation of structural analysis data including engineering calculations, shop drawings, and other submittals signed and sealed by the qualified professional engineer responsible for their preparation.
2 Comprehensive engineering analysis indicating governing unit types, connections, unit thicknesses and including any special details or conditions.

3 Location, type, magnitude, and direction of loads imposed on the building structural frame from units.

B. General Performance: Engineer press box to withstand loads within limits of allowable working stresses of the materials involved under conditions indicated and without permanent deformation or failure of materials.

C. All material and workmanship shall be in accordance with the applicable state building code/ IBC current edition and NFPA.

D. All electric components shall be UL listed.

E. Design Loads: Engineer to withstand design loads including but not limited to gravity, wind, seismic, and erection design loads and shrinkage/thermal movements as established by authorities having jurisdiction, applicable local building codes, and as indicated.

1	Dead Load	10 psf	Roof
		10psf	Floor
2	Live Load	100 psf	Floor
		50 psf	Roof (w/ filming platform)
3	Wind	20 psf	on vertical surfaces

F. Design Classification

1 Use Group: B, Construction Type: V-B

G. Pressbox System Self Weight: Self-weight of the pressbox shall be incorporated into the project calculations for both supporting structure and foundations. Coordinate support with 13 34 16 specifications.

H. Structural Drift: Limit the horizontal frame drift of the pressbox to H/200 of the height under wind and seismic loads.

I. Dimensional Tolerances: Engineer and detail products, systems, and connections back to primary structural elements to accommodate fabrication tolerances and dimensional tolerances of framing members and adjacent construction.

J. Engineer pressbox for travel from point of fabrication and for installation. Pick points and loads required for crane strapping shall be clearly noted on the drawings.

1.5 QUALITY ASSURANCE

A. Manufacturer: Company specializing in modular building construction with experience in manufacturing press boxes.

B. Engineer qualifications: The press box shall be approved by a registered professional engineer in the state the Press Box will exist in in.

C. Warranty: Press box shall be guaranteed for one (1) year against defective material or workmanship. Damage resulting from abnormal use or vandalism is not applicable.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Basis of Design Product – FOOTBALL/SOCCER WEST SIDE PRESSBOX:

1 Subject to compliance with requirements, provide Home Press Box, 8 foot by 48 foot, by Dant Clayton Corporation or a comparable product by one of the following:
   a. Dant Clayton Corporation
   b. American Press Box, A subsidiary of Sightlines, Inc.
   c. Guardian Booth

2 Sections 2.2 through 2.9 include basis of design components by specific manufacturers; provide products listed or comparable products as recommended by selected pressbox manufacturer.

B. Basis of Design Product – TRACK & FIELD PRESSBOX **(for reference only – not in scope of work):** Subject to compliance with requirements, provide Home Press Box, 8 foot by 24 foot, by Dant Clayton Corporation or a comparable product by one of the following:

1 Dant Clayton Corporation
2 American Press Box, A subsidiary of Sightlines, Inc.
3 Guardian Booth

2.2 FLOOR CONSTRUCTION

A. Bottom Board: 1/2” CCX foundation grade treated plywood. Industrial grade asphalt-based pint. Continuous aluminum vents on 8’ centers.

B. Insulation: 6” R-19 fiberglass batts, with vapor barrier minimum.

C. Joists: 2” x 6” #2 SYP, on 16” centers, longitudinal framing.

D. Decking: 3/4” Sturdifloor, underlayment grade, tongue and groove fir plywood, (Index24 in O.C.)

E. Covering: 1/8” Armstrong Excelon vinyl composition tile.

F. Molding: 4” Thermoplastic rubber base molding by Roppe.

2.3 WALL CONSTRUCTION

A. Studs: 2” x 4”, #2 or better SPF, on 16” centers, BOCA framing.

B. Bottom Plate: 2" x 4" #2 or better SPF.

C. Top Plates: (2) 2" x 4" #2 or better SPF.

D. Headers: As span and design load requires

E. Ceiling Height: 8'-2" x 8'-0", front to back.

F. Covering: 5/8" vinyl-faced gypsum panels, Class A, F.S.R.

G. Insulation: R-13 fiberglass batts with vapor barrier minimum.

H. Sheathing: 1/2" CDX plywood.

I. Siding: 0.50 Mastic 8" vertical board and batten premium vinyl exterior siding color by owner.

2.4 ROOF CONSTRUCTION

A. Joists: 2" x 8", #2 SYP, 16" O.C. spacing.

B. Overhang: 15-1/2" over front wall; 6" over rear wall. .019 metal fascia with perforated vinyl soffit panels.

C. Ceiling: 2'x2' Drop Ceiling

D. Insulation: R-19 fiberglass batts, with vapor barrier minimum.

E. Decking: 3/4" tongue & groove oriented strand board (Index 24" O.C.).

F. Covering: .060 single-ply EPDM rubber or polyester-reinfoced skid and spike resistant PVC membrane, fully adhered. Covering to withstand high wind environment.

2.5 WINDOWS

A. Simonton Energy Star North Centra, Reflections 5500 2-Lite Slider, without grids, vinyl frames, with 7/8" Prosolar Low-E, Argon filled tempered glass w/ removable insect screens. Windows to be impact resistant.

B. Interior Windows to be ¼" tempered safety glass fixed pan with stained jambs and casing

2.6 DOORS

A. 36" x 80" Insulated vinyl-faced steel clad with wood jambs; 16" insulated/tempered lite, aluminum threshold, vinyl weather stops, stainless steel hinges and heavy-duty retention chains. Doors equipped with commercial lever-handled keyed locksets.

B. Doors (Interior) - 1-3/8" Solid-core stained birch with stained birch wood jambs and casing and

passage lever handled hardware

2.7 ELECTRICAL

A. Service Entrance Panel: Square D Q0124M100 with Main Disconnect; rated at 120/240v, single phase, 100-200 amp capacity.

B. Receptacles: Pass & Seymour 125 volt/15 amp duplex, spec-grade, along the rear wall. Wiremold 5400 Series two-piece multi-channel, dual voltage, non-metallic surface raceway along front wall below scorer's counter, outlets on 48" centers.

C. Lighting: 4' linear LED lights

D. Circuits: All branch circuit wiring is minimum #12 THHN encased in EMT thin wall conduit or MC Cable.

E. PTAC packaged terminal HVAC units with integral thermostats. One unit per room.

2.8 SCORERS' COUNTER

A. 20" deep x 1 ½" Clear Anodized finish aluminum countertop with rounded front nose. Mounted on brackets spaced a minimum of 32".

2.9 CAMERA DECKS

A. Hatch: Bilco Model #NB-50 2'6" x 4'6" aluminum roof hatch or equal.

B. Ladder (Aluminum): Alaco #370 70-degree ships ladder or equal.

C. Upgraded Roof Surface: .060 polyester reinforced skid and spike resistant PVC membrane, fully adhered. Roof Surface to withstand high wind environment.

D. Railing Mounts: 1/2" galvanized threaded bolts & nuts through roof fascia on 48" centers along perimeter edge of roof. Railing mounts cannot be placed on the roof surface.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas and conditions with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the work.

B. Before installation proceeds, installer shall prepare written report, endorsed by installer, listing conditions detrimental to performance of the work. This includes survey of elevations and locations of concrete foundations or pads and anchor bolts to verify compliance with the

requirements of the grandstand manufacturers' specified tolerances.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Installation: Shall be handled directly by the manufacturer or by a factory certified installation subcontractor.

B. Erect per plans, shop drawings, and specifications.

3.3 CLEANING

A. Clean all surfaces according to manufacturer's recommendations.

B. Remove all packaging and construction debris.

END OF SECTION 133419

SECTION 321813 – SYNTHETIC GRASS SURFACING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes synthetic grass surfacing.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For synthetic grass surfacing.

1. Include sections and details.
2. Show locations of seams and method of seaming.
3. Show layout of game lines, numbers, and letters. Indicate application method of each line and marking.
4. Show location and layout of logo/graphics.

C. Samples: For each type of synthetic grass surfacing indicated.

1. Turf Fabric: 12 inches (300 mm) square.
2. Game Line Turf Fabric: 12 inches (300 mm) long by actual width.
3. Infill Material: 4 oz. (100 g) of each type.
4. Shock-Attenuation Pad: 12 inches (300 mm) square.
5. Seam Sample: 24 inches (600 mm) square with seam centered in sample.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For each synthetic grass surfacing assembly.

C. Field quality-control reports.

D. Sample Warranties: For special warranties.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For synthetic grass surfacing, including maintenance cleaning instructions, to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Turf Fabric: Minimum of 300 sq. ft. (28 sq. m) for each type indicated.
2. Infill: Minimum of two bags of each type.
3. Seaming Tape and Adhesive: One roll of seaming tape and one gallon of adhesive.
4. One new set of maintenance tools, of type recommended by synthetic grass surfacing manufacturer for installation.

1.8 QUALITY ASSURANCE

A. Experience:

1. The experienced Synthetic Turf Vendor/Manufacturer of the synthetic turf system must have supplied a minimum of twenty (20) or more successful outdoor full sized (65,000 sf or greater) infilled fields of the specified material, fiber and infill materials or similar system, in play in the United States and within the past three (3) years.
2. The Synthetic Turf Installer shall have the following qualifications.

    a. Minimum experience of at least 5 years, actively selling, installing and maintaining infill synthetic turf project of similar size.
    b. Must have previously installed at least Fifteen (15) successful outdoor full sized (65,000 square feet or larger) synthetic turf infilled fields of similar material and infill within the past three (3) years.
    c. Shall be an established, insured installation firm experienced as a premium, manufacturer certified turf installer with suitable equipment and supervisory personnel, with a minimum of 5 years' experience with 15-foot-wide tufted materials.

d. Shall be trained and certified, in writing, by the turf manufacturer, as competent in the installation of the specified material, including seaming and proper installation of the infill mixture.

3. Synthetic turf shall be installed by only certified crews approved by the Synthetic Turf Manufacturer/Vendor and employed by the General Contractor, (if different) in strict accordance with manufacturer's recommendations and instructions including but not limited to fabric, adhesives, seaming and abutting or attaching to adjacent materials.
4. The synthetic turf installer superintendent shall have supervised the installation of at least five (5) outdoor athletic field systems of 65,000 sf or greater similar to this specified project within the last three (3) year period. This foreman shall be directly employed by the Turf Installer/Contractor.

    a. Include a listing of other on-site personnel and their experience.

5. The Contractor shall not replace the named individuals for the duration of the contract unless the substitute individuals have equivalent qualifications as approved by the Owner.
6. The Synthetic Turf Contractor and the Synthetic Turf Manufacturer/Supplier must have been in business under the same ownership for at least three years and shall have been installing similar sports fields for that entire period.

1.9 QUALITY CONTROL

A. Source: Obtain Synthetic Turf product including tufted or woven synthetic turf yarn, carpet backings and infill materials from a single Synthetic Turf Manufacturer.

B. Provide additional system components including anchoring materials, seaming products, binders and adhesives, and resilient underlayment meeting the criteria of this Specification Section from single sources.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Store materials in location and manner to allow installation of synthetic grass surfacing without excess disturbance of granular base.

1.11 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace synthetic grass surfacing that fails in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

    a. Deterioration and excessive wear.

b. Deterioration from UV light.
c. Excessive loss of shock attenuation.
d. Seam separation, including game lines and markings.

2. Warranty Period: 8 years from date of Substantial Completion

3. Must warrant materials and workmanship.

4. Must verify through a third party that the materials installed meet or exceed the product specifications

5. Must have a provision to either make a cash refund or repair or replace such portions of the installed materials that are no longer serviceable to maintain a serviceable and playable surface

6. Must be a manufacturer's warranty from a single source covering workmanship and all self-manufactured or procured materials.

7. Turf Contractor must provide a full eight-year third party insured warranty on the synthetic turf with an aggregate coverage of $1,000,000.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Turf Fabric: Turf fabric tested according to the following methods, with additional test method conditions for each method according to ASTM F1551.

1. Tuft Bind: Not less than 8 lbf according to ASTM D1335.
2. Breaking Strength: Minimum 300 lbf in Grab Tear length and minimum 350 lbf in Grab Tear width, according to ASTM D5034.

B. Synthetic Grass Surfacing: Assembly tested according to the following methods, with additional test method conditions for each method according to ASTM F1551.

1. Shock Attenuation: No greater than 100 G(max) at time of installation and no greater than 175 over warranty life according to ASTM F355.

C. Durability: Minimum of 100,000 wear cycles according to EN 15306 (Lisport test).

2.2 SYNTHETIC GRASS SURFACING

A. Synthetic Grass Surfacing for Football: Complete surfacing system, consisting of synthetic yarns bound to water-permeable backing and infill indicated, suitable for football and soccer playing fields.

1. Basis-of-Design Product Assembly: Subject to compliance with requirements, provide the following product:
    1) GeoGreen with GeoFlo+ ShockPad (manufacturer: Geosurfaces/Tencate.)

a. Or provide comparable product assembly complying with requirements listed below by one of the following:
    1) AstroTurf (a SportGroup Company.)
    2) FieldTurf (a Tarkett Sports Company.)
    3) GeoSurfaces
    4) Hellas Construction Inc.
    5) Shaw Sports
    6) Turf Nation
    7) Springturf and Enplast

b. Turf Fabric: Polyethylene yarn fabric with multicolored fiber and UV resistance, complying with the following (minimum required unless noted otherwise):

ASTM D418/D5848	Yarn face weight	45 oz. /Sq. Yd.
ASTM D5848	Yarn Thickness	120 micron
ASTM D5848	Secondary Backing	20 oz. urethane
ASTM D5848	Total Weight	72 oz. /Sq. Yd.
	In-fill depth	1.5”
	Relief (yarn length above infill)	0.5”
ASTM D5793	Tufting Gauge	Max. 1/2”
ASTM D5848	Primary Backing	Tencate K29 or similar per manufacturer’s standard; Tri-layer woven Polypropylene
ASTM D5848	Secondary Backing	20 oz urethane
ASTM D1335	Tuft Bind without Infill	8 lbs.
ASTM D1682/D5034	Grab Tear (length)	250 lbs Force.
ASTM D1682/D5034	Grab Tear (width)	250 lbs. Force
ASTM D4991	Permeability	>40 inches/hour
ASTM D2859	Flammability (Pill Burn)	Pass
ASTM F355	G-max (Impact Attenuation calculated with shock-attenuation pad)	Max. 140 at installation Max. 175 over warranty life

c. Infill material: 7-14 Ambient Ground SBR over sand ballast layer, or as otherwise recommended by manufacturer.

d. Backing: Manufacturer's standard woven polypropylene primary backing with urethane-coated secondary backing; provide perforations or drainage channels sufficient to meet permeability indicated.

e. Shock-attenuation pad:

1) Manufacturer's standard complying with the following (minimum values unless noted otherwise):

a)	Thickness:	20 mm.
b)	Tensile Strength (ASTM-D3575):	55 psi.
c)	Tensile Elongation (ASTM-D3575):	20% max.
d)	Tear Strength (ASTM-D3575):	12 lbs / ft
e)	Water Absorption (ASTM-D3575/C272)	5% max.
f)	Compressive Creep (ASTM-D3575)	1.3% max
g)	Flammability (FMVSS-302)	Pass
h)	Horizontal Drainage:	50"/hour
i)	Vertical Drainage:	100" per hour

f. Base / Substrate:

1) Compacted crushed stone finish grade and base course and compacted subgrade, as indicated in Civil drawings.

B. Game Lines and Markings: Manufacturer's standard complying with NHSA requirements.

1. Application Method: Manufacturer's standard.
2. Logo, Endzone, and Sponsor Graphics:
   a. Four-color sponsor logo at 50 yard line.
      1) Size: 40 feet by 40 feet (approximately)
   b. Four-color Endzone graphics
      1) Full area of end zones
   c. Sponsor Graphics at 30 yard lines:
      1) Single color wordmark graphic, one per side (total qty: 2)
      2) Approx. size: 10 feet by 50 feet.
   d. All logos and wordmarks to be verified with Owner and Architect.

C. Seaming Method: Manufacturer's Standard.

2.3 MATERIALS

A. Seam Adhesive: Single component, high strength polyurethane, recommended or approved by synthetic grass surfacing manufacturer, and suitable for ambient conditions at time of installation.

B. Seam Tape: Synthetic grass manufacturer's recommended seam tape, per manufacturer's recommendations.

C. Game Line Paint: Manufacturer's standard.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine base and other conditions, with Installer present, for compliance with requirements for installation tolerances, permeability, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Avoid disturbance of base during installation of shock-attenuation pad and turf fabric.

B. Shock-Attenuation Pad Installation: Roll out pad and allow to relax a minimum of six hours prior to final fit and trim. Stagger head seams between adjacent rows. Fit seams snugly without stretching or forcing.

C. Roll out turf fabric and allow to relax at least four hours prior to seaming.

D. Provide seams flat and snug, with no gaps or fraying. Remove yarns that are trapped within seams. Attach turf fabric to perimeter restraint system as recommended by the manufacturer.

E. Install inlaid game lines and markings by cutting through turf fabric and installing snugly fitting game line turf fabric. Provide seaming tape that extends minimum 6 inches (152 mm) beyond seam.

F. Repair loose seams and bubbles formed due to expansion of turf fabric prior to installation of infill.

G. Evenly broadcast and groom infill by machine in proportions and depth after settling as recommended by the manufacturer, and to meet indicated performance requirements. Rake fibers trapped by infill to surface.

H. Painted Game Lines: Apply lines and markings as recommended by the game line paint manufacturer.

I. The installation of the Synthetic Turf product and infill shall be performed in full compliance with the approved Shop Drawings and Manufacturers recommendations. Any variance from these requirements must be accepted in writing, by the Owner, verifying that the changes do not in any way affect the warranty.

J. All designs, markings, layouts, and materials shall conform to all applicable and current/pertinent Organization rules and other standards applicable to this project installation.

K. Synthetic turf shall be installed by crews certified and or employed by the Synthetic Turf manufacturer, in strict accordance with manufacturer's recommendations and instructions including but not limited to, fabric, adhesives, seaming and abutting or attaching to adjacent materials.

L. The synthetic turf carpet shall be installed with no wrinkles, ripples or bubbles. Shearing of fibers, slits in the fabric or driven spikes or staples to relieve such defects will not be permitted.

M. Rolls that do not comply with the proper length or conform to the seaming diagram, as approved prior to installation, shall be rejected from the site. No fitted pieces shall be allowed to true alignment.

N. Field markings and lining of synthetic field surfacing shall be laid out as shown on the drawings and as approved by the Owner with Contractor submitted drawings. All lines shall be straight and true along the length of the marked boundary to within ½" along the entire length of any such boundary.

O. The turf installer shall glue/nail the turf edges to the perimeter anchor system at the edge of the field as well as to all collars around valve and other in ground boxes or structures as shown on drawings and as recommended per synthetic turf manufacturer.

P. Do not begin installation of the infill materials until the field has been observed in the presence of the Owner's representative. Debris from turf installation shall be removed; field shall be brushed to free trapped or tangled fibers and wrinkles; seams and inlays shall be observed. Inlays or seams using adhesives shall be properly set up before infill is added. A magnet shall be used over entire field to remove any stray construction metal debris.

Q. Infill materials shall be applied at a uniform depth and at an ultimate finish grade tolerance of 1/4 inch at any point over the entire playing field area. Fill to a depth so that a minimum of 1/2 inch to a maximum of 5/8 inch of fiber is visible.

R. Fiber shall not be buried or trapped below infill material when complete.

S. The finish turf surface shall have a permeability test performed on 5 locations on the field. Permeability test shall be in accordance with ASTM test method. All test results must be greater than 30 inches per hour at initial installation.

T. Upon completion of the turf system installation, the Synthetic Turf Contractor shall provide the Owner with independent testing data stating that the finished field falls within the required minimum and maximum G-Max requirements.

3.3 DEMONSTRATION

A. Train Owner's maintenance personnel in proper maintenance procedures for synthetic grass surfacing.

END OF SECTION 321813

SECTION 323300 - SITE FURNISHINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Seating.
2. Bicycle racks.
3. Trash receptacles.
4. Bollards.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Initial Selection: For units with factory-applied finishes.

C. Samples for Verification: For each type of exposed finish, not less than **6-inch-** long linear components and **4-inch-** square sheet components.

1.3 CLOSEOUT SUBMITTALS

A. Maintenance Data: For site furnishings to include in maintenance manuals.

PART 2 - PRODUCTS

2.1 SEATING

A. Basis-of-Design Product: Subject to compliance with requirements, provide 8' Champion Supreme by Premier Polysteel or comparable product by one of the following:

1. Kay Park Recreation
2. Belson Outdoors
3. Barco Products

B. Frame: Steel.

C. Seat and Back:

1. Material:

    a. Steel: Perforated metal with thermoplastic coating.

2. Seat Height: Min. 18 inches.
3. Seat Surface Shape: Flat.
4. Overall Width: As indicated.
5. Arms: None.

D. Steel Finish: PVC-color coated.

1. Color: As selected by Architect from manufacturer's full range.

2.2 BICYCLE RACKS

A. Basis-of-Design Product: Subject to compliance with requirements, provide Wave Bike Rack by Uline or comparable product by one of the following:

1. DuMor Inc.
2. Huntco Supply, LLC
3. Barco Products
4. Premier Polysteel

B. Bicycle Rack Construction:

1. Frame: Galvanized steel.

    a. Pipe OD: Not less than 2-3/8 inches.

2. Style: As indicated.

    a. Overall Height: As indicated.
    b. Overall Width: As indicated.
    c. Capacity: Designed to accommodate no fewer than two bicycles.

3. Security: Designed to lock wheel and frame.
4. Accessories: Base covers for each pipe and tubing anchored end.
5. Installation Method: Surface flange anchored at finished grade to substrate indicated.

C. Steel Finish: Powder coating

2.3 TRASH RECEPTACLES

A. Basis-of-Design Product: Subject to compliance with requirements, provide SuperSaver Receptacle by Barco Products or comparable product by one of the following:

1. DuMor Inc.
2. Landscape Forms
3. Thomas Steele; Graber Manufacturing, Inc.
4. Premier Polysteel
5. Wabash Valley

B. Steel Facing Surrounds: Grid in tubular frame.

C. Trash Receptacles:

1. Receptacle Shape and Form: Round cylinder; with opening for depositing trash in lid or top.
2. Lids and Tops: Thermoplastic coated steel secured by cable or chain, hinged, swiveled, or permanently secured.

    a. Description: Flat rim ring lid with center opening.

3. Receptacle Height: 30 inches.
4. Overall Width: minimum 23 inches.
5. Inner Container: Rigid plastic container with lift-out handles; designed to be removable and reusable.
6. Disposable Liners: Provide receptacle designed to accommodate disposable liners.
7. Capacity: Not less than 32 gal..
8. Service Access: Removable lid or top; inner container and disposable liner lift or slide-out for emptying.

D. Steel Finish: PVC-color coated.

1. Color: As selected by Architect from manufacturer's full range.

2.4 BOLLARDS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. 1-800-Bollards
2. Dero; a PlayCore company
3. DuMor Inc.
4. L.A. Steelcraft, a brand of Americana Outdoor

B. Bollard Construction:

1. Pipe OD: Not less than 6 inches.

    a. Steel: Schedule 40 pipe, filled with concrete.

2. Style: Dome top.
3. Overall Height: 36 inches above grade.
4. Installation Method: Cast in concrete.

C. Steel Finish: Color coated.

1. Color: As selected by Architect from manufacturer's full range.

2.5 MATERIALS

A. Steel and Iron: Free of surface blemishes and complying with the following:

1. Plates, Shapes, and Bars: ASTM A36/A36M.
2. Steel Pipe: Standard-weight steel pipe complying with ASTM A53/A53M, or electric-resistance-welded pipe complying with ASTM A135/A135M.
3. Tubing: Cold-formed steel tubing complying with ASTM A500/A500M.
4. Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A513/A513M, or steel tubing fabricated from steel complying with ASTM A1011/A1011M and complying with dimensional tolerances in ASTM A500/A500M; zinc coated internally and externally.
5. Sheet: Commercial steel sheet complying with ASTM A1011/A1011M.
6. Expanded Metal: Carbon-steel sheets, deburred after expansion, and complying with ASTM F1267.

B. Stainless Steel: Free of surface blemishes and complying with the following:

1. Sheet, Strip, Plate, and Flat Bars: ASTM A240/A240M or ASTM A666.
2. Pipe: Schedule 40 steel pipe complying with ASTM A312/A312M.
3. Tubing: ASTM A554.

C. Certified Wood: Wood products shall be certified according to the American Tree Farm System's "AFF Standard," the AFPA's Sustainable Forestry Initiative, FSC STD-01-001 and FSC STD-40-004, or the standards of the Programme for Endorsement of Forest Certification.

D. Plastic: Color impregnated, color and UV-light stabilized, and mold resistant.

1. Polyethylene: Fabricated from virgin plastic HDPE resin.

E. Anchors, Fasteners, Fittings, and Hardware: Manufacturer's standard, corrosion-resistant-coated or noncorrodible materials; commercial quality, tamperproof, vandal and theft resistant.

F. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M; recommended in writing by manufacturer, for exterior applications.

G. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound; resistant to erosion from water exposure without needing protection by a sealer or waterproof coating; recommended in writing by manufacturer, for exterior applications.

H. Galvanizing: Where indicated for steel and iron components, provide the following protective zinc coating applied to components after fabrication:

1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of **0.9 oz./sq. ft.** of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent zinc pigmented coating, not less than **0.3 mil** thick.
2. Hot-Dip Galvanizing: According to ASTM A123/A123M, ASTM A153/A153M, or ASTM A924/A924M.

2.6 FABRICATION

A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.

B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended, so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.

C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.

D. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.

E. Factory Assembly: Factory assemble components to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.7 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.8 STEEL AND GALVANIZED-STEEL FINISHES

A. Powder-Coat Finish: Manufacturer's standard polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

B. PVC Finish: Manufacturer's standard, UV-light stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added; complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.

B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.

C. Install site furnishings level, plumb, true, and positioned at locations indicated on Drawings.

D. Post Setting: Set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.

END OF SECTION 323300

SECTION 329113 - SOIL PREPARATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes planting soils and layered soil assemblies specified by composition of the mixes.

B. Related Requirements:

1. Section 311000 "Site Clearing" for topsoil stripping and stockpiling.
2. Section 329200 "Turf and Grasses" for placing planting soil for turf and grasses.
3. Section 329300 "Plants" for placing planting soil for plantings.
4. Section 329600 "Transplanting" for placing planting soil in tree planting pits.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 QUALITY ASSURANCE

A. Testing Agency Qualifications: An independent, state-operated, or university-operated laboratory; experienced in soil science, soil testing, and plant nutrition; with the experience and capability to conduct the testing indicated; and that specializes in types of tests to be performed.

1. Contractor:

a. For projects in which the Prime Contractor will perform landscape, irrigation, or arboreal work, the Contractor shall have a current or valid Landscape Horticulturalist License, Arborist License, and/or Irrigation Contractor License issued by the Louisiana State Horticultural Commission as is applicable to the scope of work of the project.
b. The Contractor shall provide proof of qualifications.

2. Subcontractor:

a. The Subcontractor to the Prime Bidder with responsibility for landscaping, irrigation or arboriculture shall provide a list of similar projects in terms of scope of work and budget completed over the past five (5) years. The Subcontractor shall have appropriate experience related to the work specified in the drawings

and specifications.

b. The Subcontractor shall complete and submit AIA Document A305, "Contractor's Qualification Statement". Completion of Section 5, " Financing", is not required unless requested by City or School Board.

c. The Subcontractor shall have a current and valid Landscape Horticulturalist License, Arborist License and/or Irrigation Contractor License issued by the Louisiana State Horticultural Commission as is applicable to the scope of work of the project.

d. The Subcontractor shall provided proof of qualifications .

3. Personnel:

a. The Contractor shall provide at least one person who shall be present at all times during execution of this portion of the project. This person shall be a Landscape Horticulturist, Arborist, or Irrigation Contractor licensed by the Louisiana Horticultural Commission as is relevant to the scope of work, and shall be throughly trained and experienced. This person shall also have experience directing all work performed under this section.

4. Standards:

a. American National Standards for Tree Care Operations, ANSI A300. American National Standards Institute, 11 West 42nd Street, New York, N.Y. 10036

b. Hortus Third, The staff of the L.H. Bailey Hortorium. 1976. MacMillan Publishing Co., New York

c. American Standard for Nursery Stock, ANSI Z60.1. American Nursery and Landscape Association, 1250 Eye Street. NW, Suite 500, Washington, D.C.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Regional Materials: manufactured planting soil and soil amendments and fertilizers shall be manufactured within 100 miles of Project site from materials that have been extracted, harvested, or recovered, as well as manufactured, within 100 miles of Project site.

2.2 PLANTING SOILS SPECIFIED BY COMPOSITION

A. General: Soil amendments, fertilizers, and rates of application specified in this article are guidelines that may need revision based on testing laboratory's recommendations after preconstruction soil analyses are performed.

B. Planting Soil Mixture: Garden soil is to be an approved mix containing no less than fifteen (15) percent clay with a PH range from five (5) to seven (7). It should also be fertile, friable, natural

loam, reasonably free of clay lumps, brush, weeds, and other litter, free matter harmful to plant growth. It shall be a mixture of the following materials in quantities specified: on part humus, one part coarse building sand, one part sand, and one part shredded bark mulch.

C. Batture sand is prohibited due to associated weed infestation issues.

2.3 Rain Garden Soil Media

A. Basis of Design

1. Supplier: Rock n Soil (or Similar provider approved by contractor)

    a. Supplier Address: 9119 Airline Hwy, New Orleans, LA 70118
    b. Supplier Phone: 504-488-0908

2. Product: Sandy Soil Mix, intended for rain gardens, bioswales, and similar green infrastructure applications
3. Approximate composition: 75% sand, 25% enriched organic compost

B. Performance Requirements

1. Texture: Sandy loam or loamy sand, per USDA classification.
2. Infiltration rate: 5 - 8 inches per hour, minimum of 5 inches required (field-tested, in-place)
3. Organic matter content: 5-15% by weight
4. pH: 5.5 to 7.5
5. Free of contaminants, clumps, roots, debris, and stones larger than 1"
6. No more than 5% clay content by volume.
7. Compost shall meet US Composting Council STA standards.

C. Alternate Materials

D. Must match physical, chemical, and hydraulic properties of the Basis of Design.

E. Submit lab tests and source information for approval prior to use.

2.4 ORGANIC SOIL AMENDMENTS

A. Wood Derivatives: Shredded and composted, nitrogen-treated sawdust, ground bark, or wood waste; of uniform texture and free of chips, stones, sticks, soil, or toxic materials.

1. Partially Decomposed Wood Derivatives: In lieu of shredded and composted wood derivatives, mix shredded and partially decomposed wood derivatives with ammonium nitrate at a minimum rate of 0.15 lb/cu. ft. of loose sawdust or ground bark, or with ammonium sulfate at a minimum rate of 0.25 lb/cu. ft. of loose sawdust or ground bark.

2.5 FERTILIZERS

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:

1. Composition: 1 lb/1000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
2. Composition-1: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified testing agency.

2.6 HERBICIDE

A. Pre-Emergent herbicide shall be Pendimethalin, Oryzalin or approved equal applied as per the manufacturer's instructions at the time of planting.

PART 3 - EXECUTION

3.1 GENERAL

A. Place planting soil and fertilizers according to requirements in other Specification Sections.

B. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in planting soil.

C. Proceed with placement only after unsatisfactory conditions have been corrected.

3.2 PREPARATION OF UNAMENDED, ON-SITE SOIL BEFORE AMENDING

A. Excavation: Excavate soil from designated area(s) to a depth of 6 inches and stockpile until amended.

B. Unacceptable Materials: Clean soil of concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.

C. Unsuitable Materials: Clean soil to contain a maximum of 8 percent by dry weight of stones, roots, plants, sod, clay lumps, and pockets of coarse sand.

D. Screening: Pass unamended soil through a 3-inch sieve to remove large materials.

3.3 PLACING AND MIXING PLANTING SOIL OVER EXPOSED SUBGRADE

A. General: Apply and mix unamended soil with amendments on-site to produce required planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.

B. Subgrade Preparation: Till subgrade to a minimum depth of 6 inches. Remove stones larger than 1-1/2 inches in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.

1. Apply, add soil amendments, and mix approximately half the thickness of unamended soil over prepared, loosened subgrade according to "Mixing" Paragraph below. Mix thoroughly into top 4 inches of subgrade. Spread remainder of planting soil.

C. Mixing: Spread unamended soil to total depth of 6 inches, but not less than required to meet finish grades after mixing with amendments and natural settlement. Do not spread if soil or subgrade is frozen, muddy, or excessively wet.

D. Compaction: Compact each blended lift of planting soil to 75 to 82 percent of maximum Standard Proctor density according to ASTM D698 and tested in-place.

E. Finish Grading: Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.4 BLENDING PLANTING SOIL IN PLACE

A. General: Mix amendments with in-place, unamended soil to produce required planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.

B. Preparation: Till unamended, existing soil in planting areas to a minimum depth of of 4 inches. Remove stones larger than 1-1/2 inches in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.

C. Compaction: Compact blended planting soil to 75 to 82 percent of maximum Standard Proctor density according to ASTM D698 except where a different compaction value is indicated on Drawings.

D. Finish Grading: Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.5 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

B. Perform the following tests and inspections:

1. Compaction: Test planting-soil compaction after placing each lift and at completion using a densitometer or soil-compaction meter calibrated to a reference test value based on laboratory testing according to ASTM D698. Space tests at no less than one for each 1000 sq. ft. of in-place soil or part thereof.

C. Prepare test and inspection reports.

D. Label each sample and test report with the date, location keyed to a site plan or other location system, visible conditions when and where sample was taken, and sampling depth.

3.6 PROTECTION

A. Protection Zone: Identify protection zones according to Section 015639 "Temporary Tree and Plant Protection."

B. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:

1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Vehicle traffic.
4. Foot traffic.
5. Erection of sheds or structures.
6. Impoundment of water.
7. Excavation or other digging unless otherwise indicated.

C. If planting soil or subgrade is overcompacted, disturbed, or contaminated by foreign or deleterious materials or liquids, remove the planting soil and contamination; restore the subgrade as directed by Architect and replace contaminated planting soil with new planting soil.

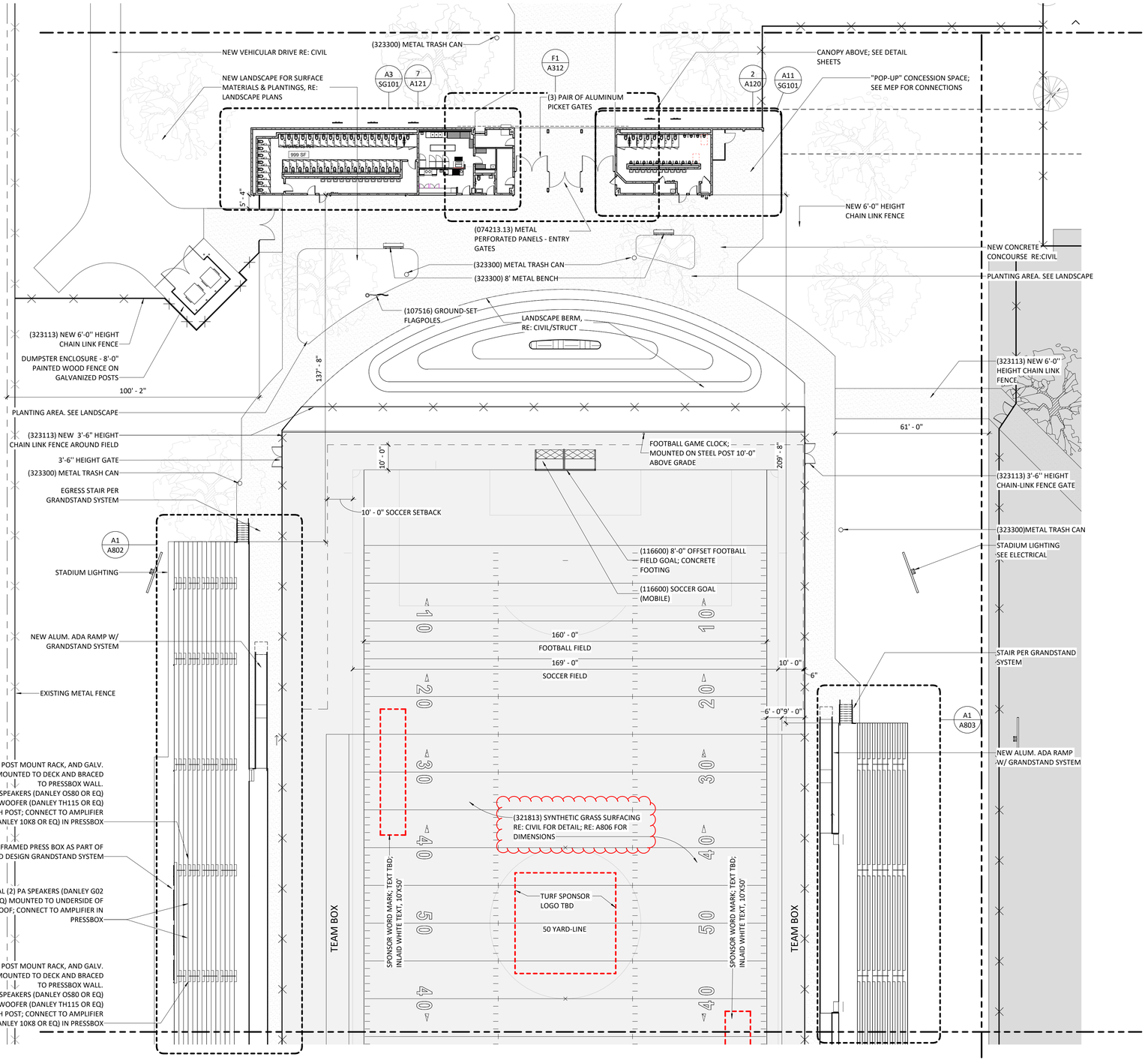
3.7 CLEANING

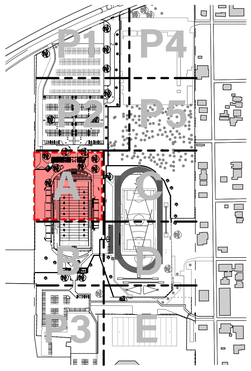
A. Protect areas adjacent to planting-soil preparation and placement areas from contamination. Keep adjacent paving and construction clean and work area in an orderly condition.

B. Remove surplus soil and waste material including excess subsoil, unsuitable materials, trash, and debris and legally dispose of them off Owner's property unless otherwise indicated.

1. Dispose of excess subsoil and unsuitable materials on-site where directed by Owner.

END OF SECTION 329113





01 - Concourse Level - Sector A A3 3/64" = 1'-0"

Reference Plan A 1 1" = 400'-0"

WILLIAMS ARCHITECTS + multistudio

MULTI-SPORT VENUE IN EASTERN NEW ORLEANS AND LOWER NINTH WARD

OPSB Project Number: **ITB 26-FAC-0053**

4290 Almonaster Avenue
New Orleans, LA 70126

owner:
Orleans Parish School Board
2401 Westbend Parkway
New Orleans, LA 70114
504.304.5612
nolapublicschools.com

Project Number: WA-523012/MS-1323-1080

architect of record:
Williams Architects
824 Baronne St.
New Orleans, LA 70113
504.566.0888
williamsarchitects.com

architect:
Multistudio
1501 Religious St Suite A
New Orleans, LA 70130
504.681.6303
multi.studio

structural engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

civil engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

landscape architect:
Design Jones
201 East Abram Street
Suite 140
Arlington, Texas 76010
216.965.5929
designjonesllc.com

mep engineer:
YKH Consulting
3701 Hessmer Ave
Metairie, LA 70002
504.264.5111
ykhconsulting.com

food service:
Moynan Consulting
101 Kramer Ct
Mandeville, LA 70471
985.874.5710
moynanconsulting.com

Issue Date: November 06, 2025

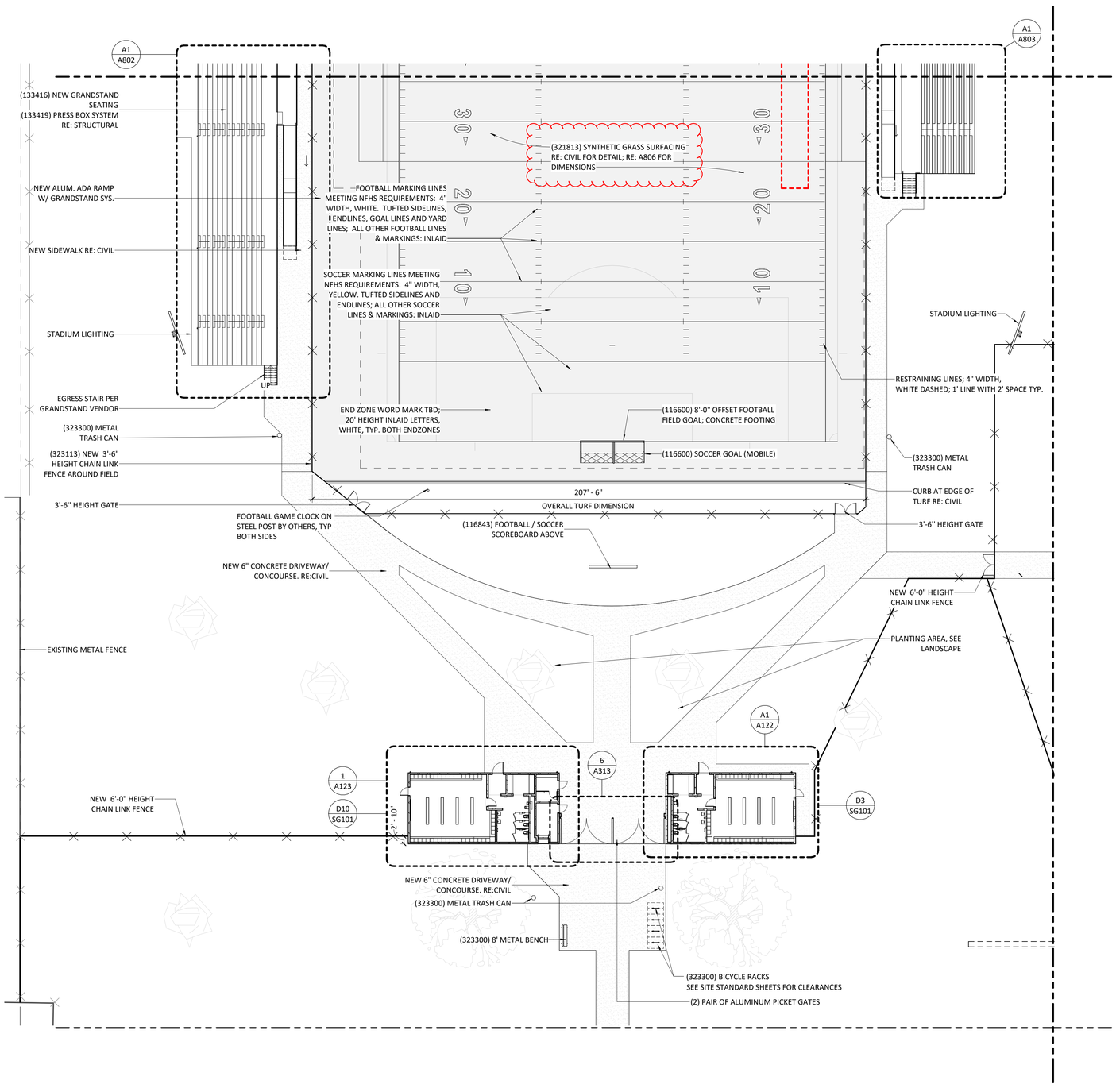
Revisions

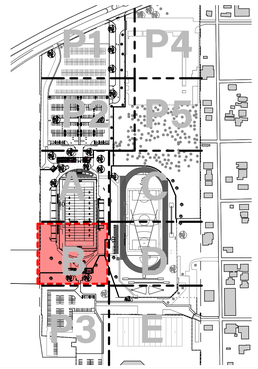
NUMBER	DESCRIPTION	DATE
1	ADDENDUM 2	01/22/26

Concourse Level - Sector A - North Buildings, Field, & Grandstands

A101.3A

100% CONSTRUCTION SET





01 - Concourse Level - Sector B A3 3/64" = 1'-0"

Reference Plan B 1 1" = 400'-0"

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williamsarchitects.com

architect:
Multistudio
1501 Religious St Suite A
New Orleans, LA 70130
504.681.6303
multi.studio

structural engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

civil engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

landscape architect:
Design Jones
201 East Abram Street
Suite 140
Arlington, Texas 76010
216.965.5929
designjonesllc.com

mep engineer:
YKH Consulting
3701 Hessmer Ave
Metairie, LA 70002
504.264.5111
ykhconsulting.com

food service:
Moynan Consulting
101 Kramer Ct
Mandeville, LA 70471
985.874.5710
moynanconsulting.com

Issue Date: November 06, 2025

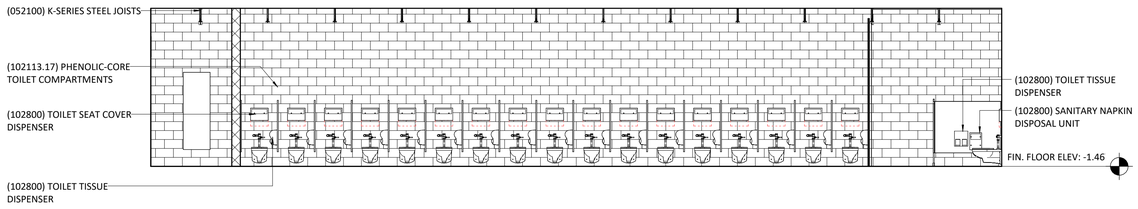
Revisions

NUMBER	DESCRIPTION	DATE
1	ADDENDUM 2	01/22/26

Concourse Level - Sector B - South Buildings, Field, & Grandstands

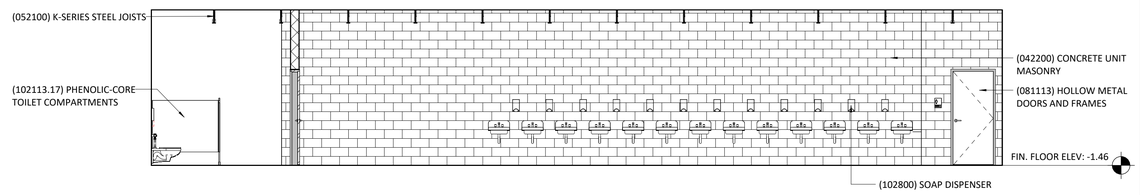
A101.4B

100% CONSTRUCTION SET



Interior Elevation - Womens RR - South 12

3/16" = 1'-0"



Interior Elevation - Womens RR - North - B 11

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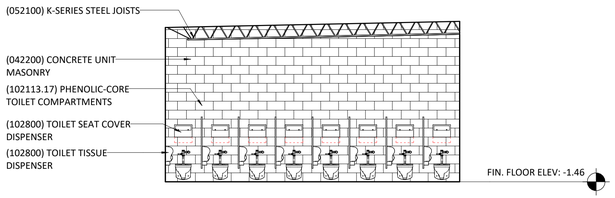
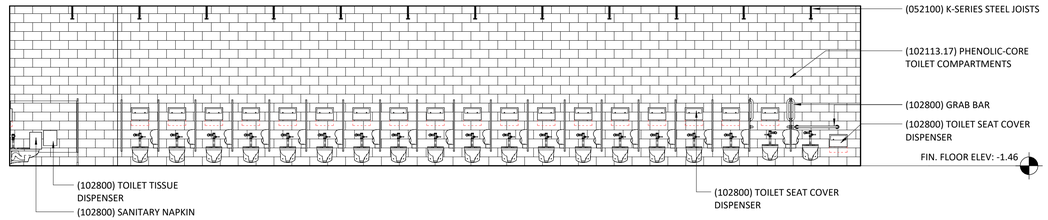


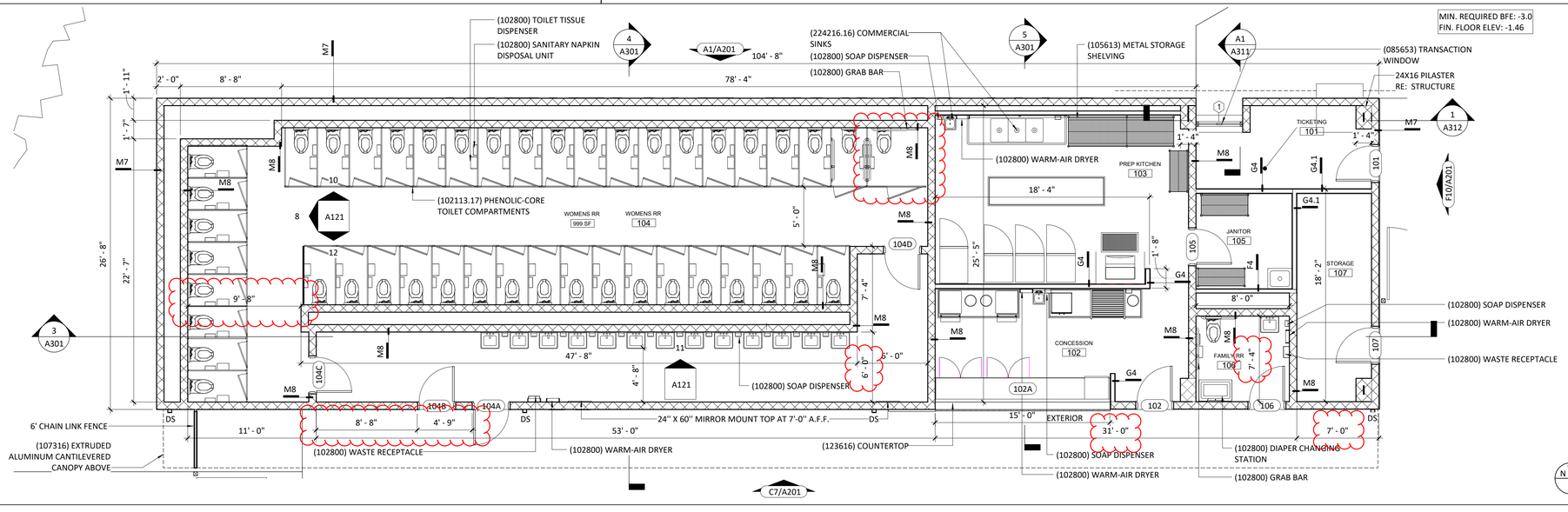
Interior Elevation - Womens RR - West 8

3/16" = 1'-0"



Interior Elevation - Womens RR - North - A 10

3/16" = 1'-0"



Womens RR, Concessions, Ticketing - Enlarged Plan 7

3/16" = 1'-0"

REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING (MEP) DRAWINGS FOR ROUGH-IN PLUMBING, PLUMBING FIXTURES, ELECTRICAL, AND MECHANICAL COORDINATION AND DETAILS

REFER TO SHEET A002 - ACCESSBILITY STANDARDS SHEET FOR PLUMBING FIXTURE AND RESTROOM ACCESSORY MOUNTING HEIGHTS.

WILLIAMS ARCHITECTS + multistudio

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New Orleans, LA 70113
504.566.0888
williamsarchitects.com

architect:
Multistudio
1501 Religious St Suite A
New Orleans, LA 70130
504.681.6303
multi.studio

structural engineer:
Marais Consultants
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Issue Date: November 06, 2025

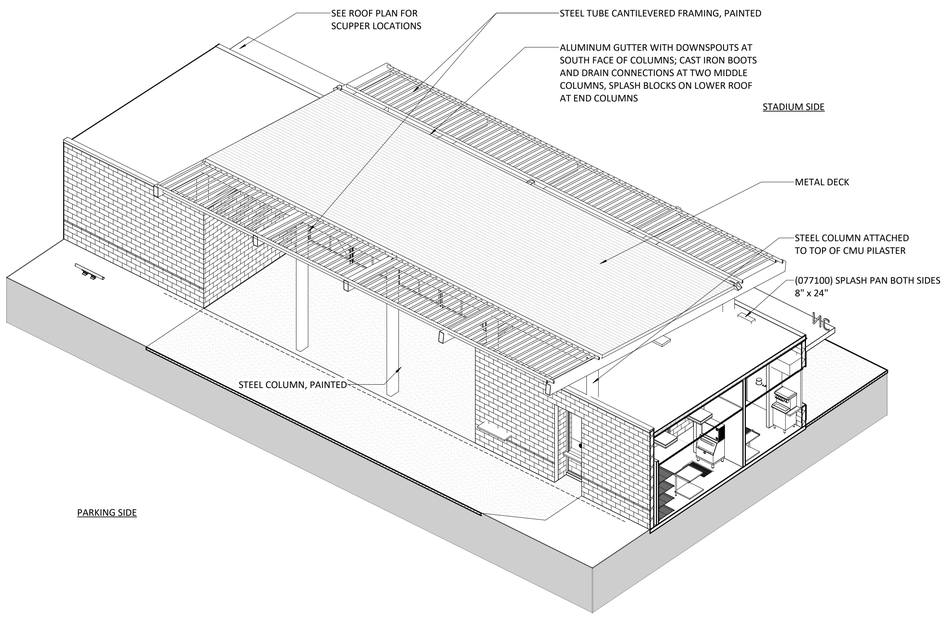
Revisions

NUMBER	DESCRIPTION	DATE
1	ADDENDUM 2	01/22/26

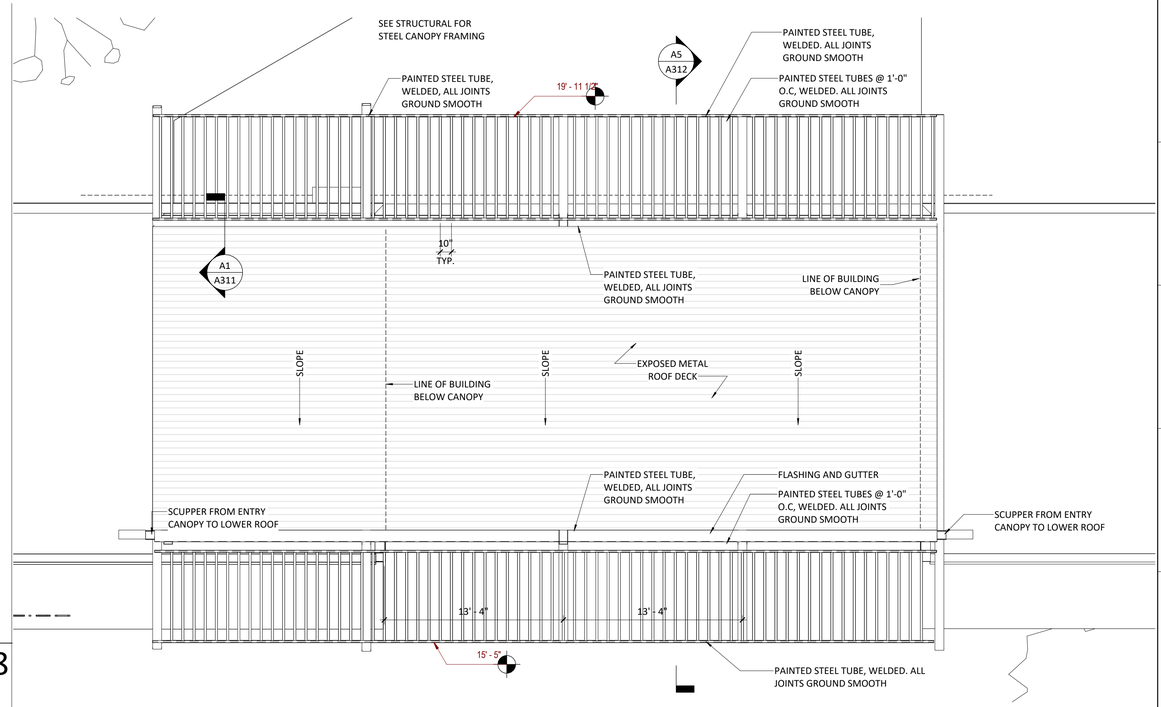
Enlarged Floor Plans and Interior Elevations

A121

100% CONSTRUCTION SET

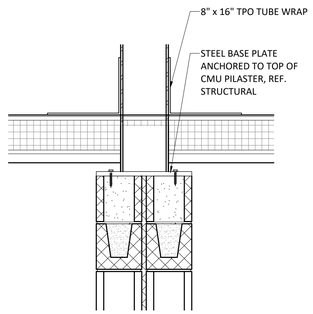


Canopy Axon F8



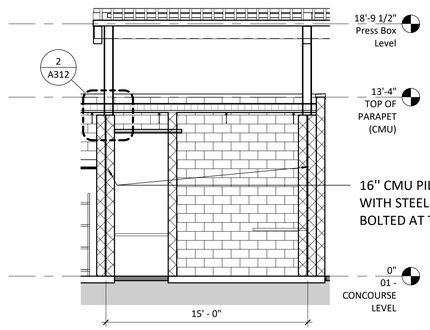
North Entry Canopy Roof Plan F1

3/16" = 1'-0"



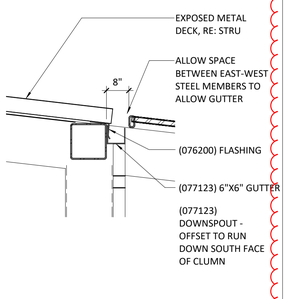
Pilaster/Column Detail 2

1" = 1'-0"



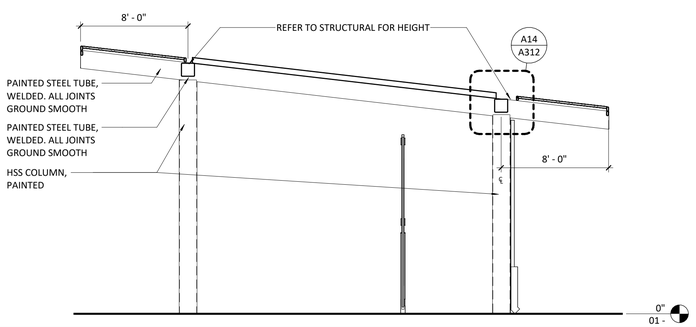
Canopy Pilaster/Column Section 1

3/16" = 1'-0"



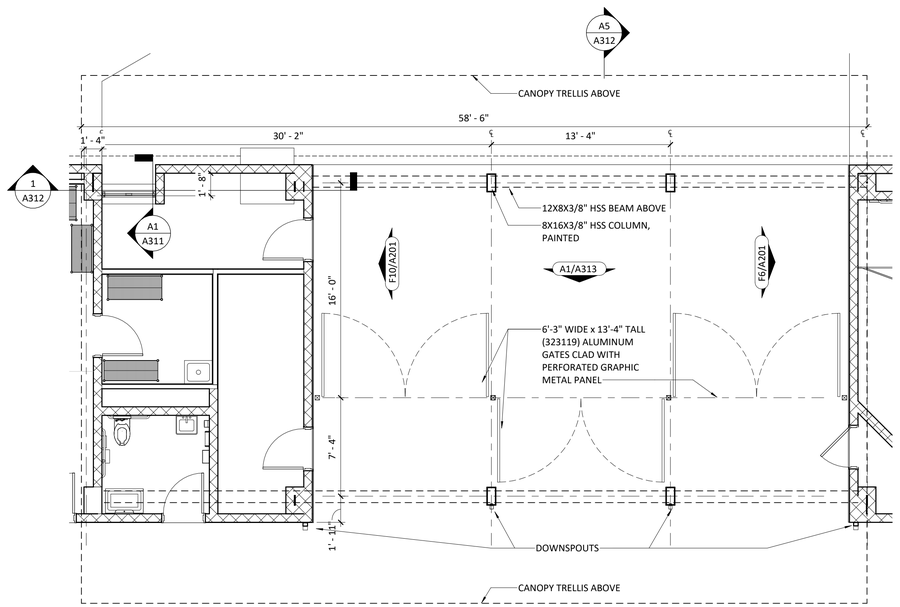
Canopy Gutter Detail A14

1/2" = 1'-0"



Entry Canopy Section A5

3/16" = 1'-0"



North Entry Canopy Floor Plan A1

3/16" = 1'-0"

WILLIAMS ARCHITECTS + multistudio

MULTI-SPORT VENUE IN EASTERN NEW ORLEANS AND LOWER NINTH WARD

OPSB Project Number: **ITB 26-FAC-0053**

4290 Almonaster Avenue
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owner:
Orleans Parish School Board
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504.304.5612
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Revisions

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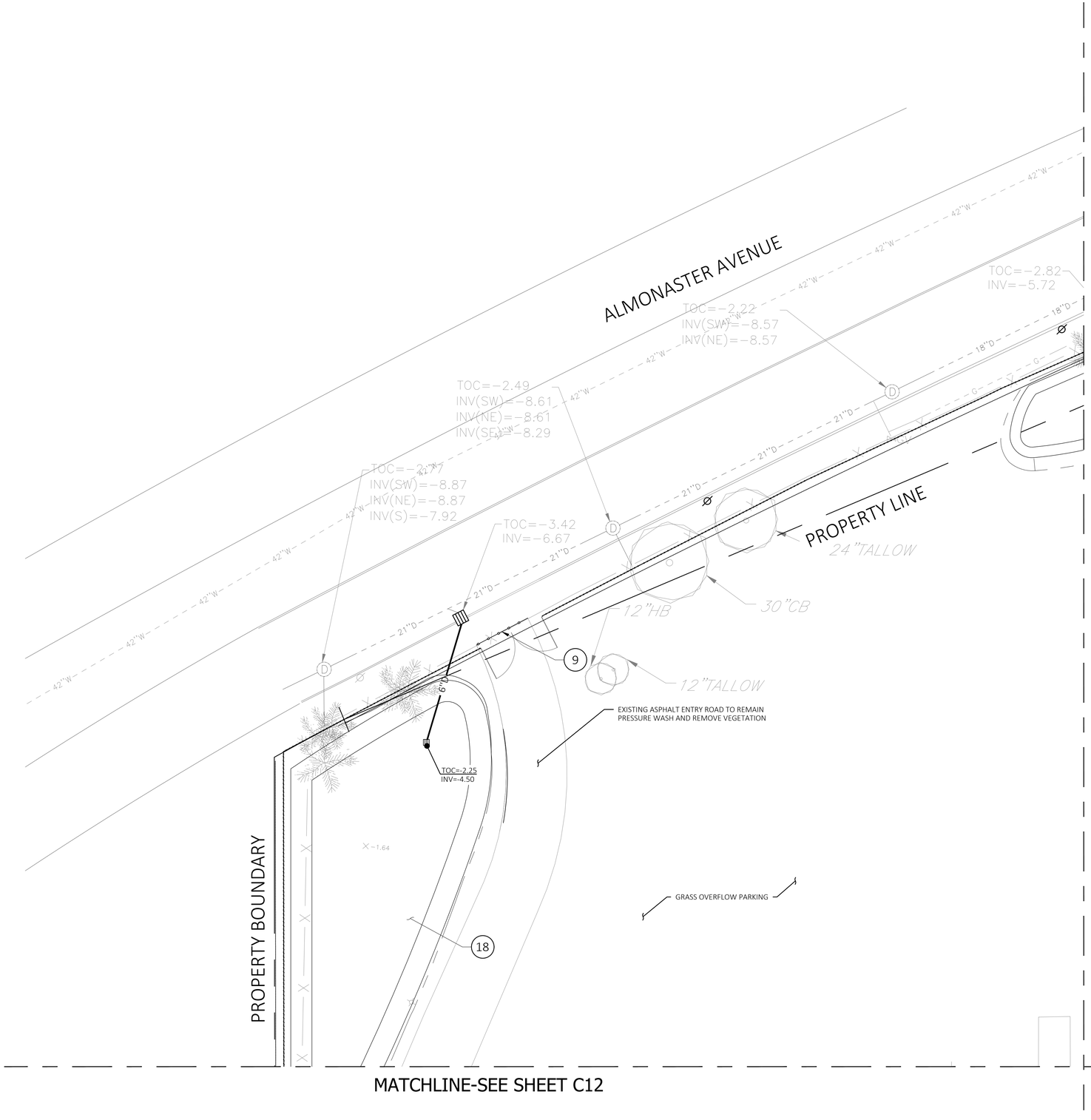
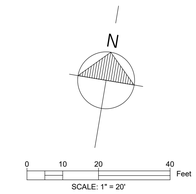
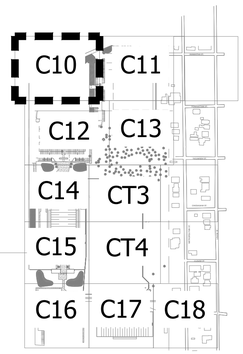
Canopy Details

A312

100% CONSTRUCTION SET







SITE PLAN LEGEND

MILL AND OVERLAY EXIST. PAVEMENT	PLANTING AREA, REF LANDSCAPE	4" THICK CONCRETE
DETENTION AREA	5" THICK CONCRETE OR 7" THICK CONCRETE	5" THICK ASPHALT
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(SIZE) S — REQ'D SEWER LINE	(SIZE) PP — REQ'D PERFORATED DRAIN LINE	

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MARAIS
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2018 JENA STREET
NEW ORLEANS, LA 70115
504.350.2644
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Issue Date: NOVEMBER 06, 2025

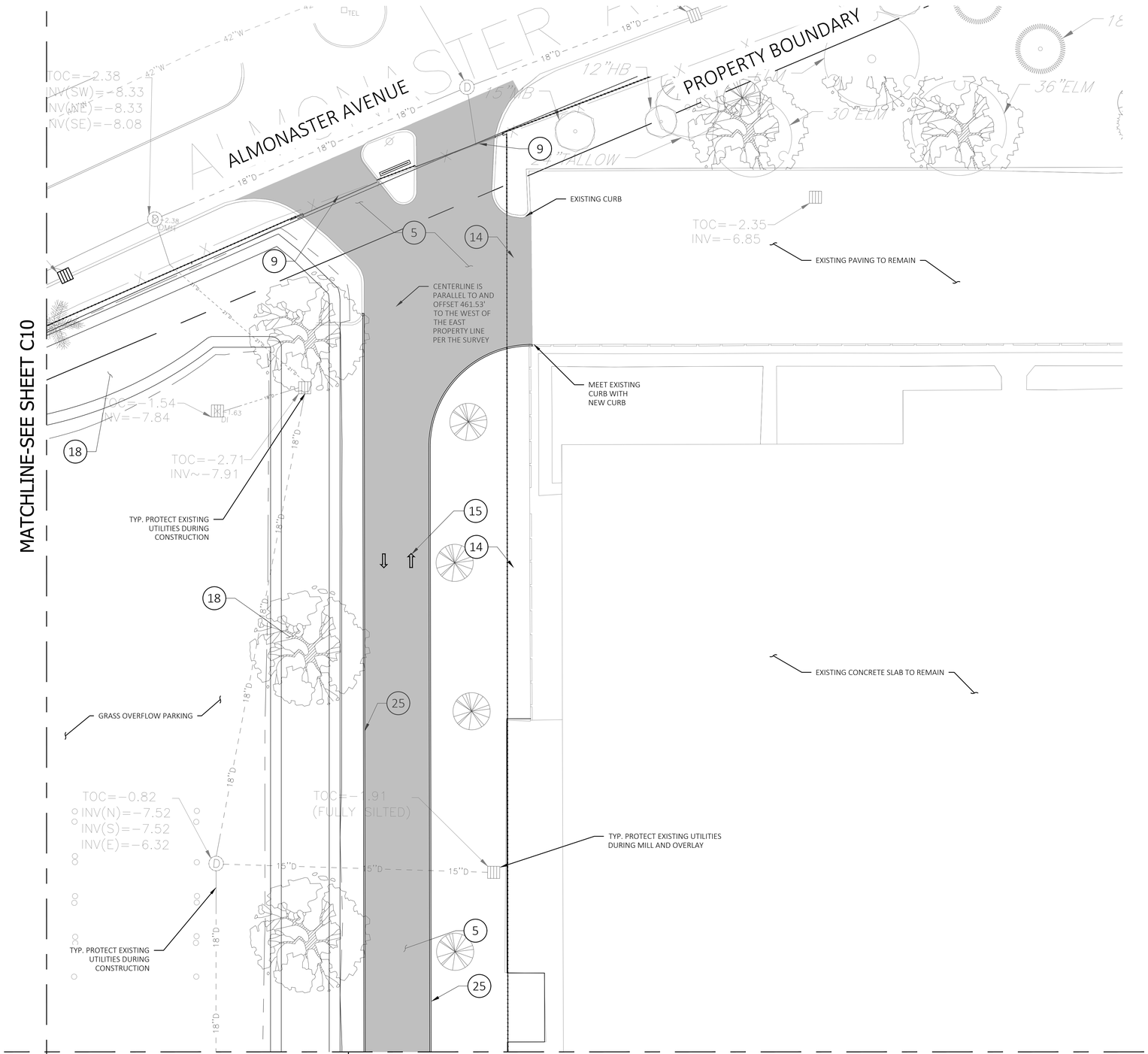
Revisions

1	01/22/2026 ADDENDUM 2

SITE PLANS

C10

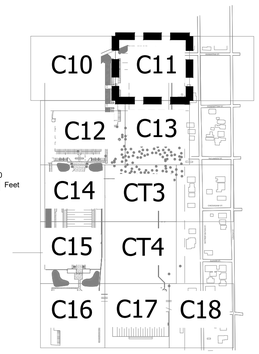
100% CD BID SET



N

0 10 20 40 Feet

SCALE: 1" = 20'



SITE PLAN LEGEND

- MILL AND OVERLAY EXIST. PAVEMENT
- PLANTING AREA, REF LANDSCAPE
- 4" THICK CONCRETE
- DETENTION AREA
- 5" THICK CONCRETE OR 7" THICK CONCRETE
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Revisions

(1) 01/22/2026 ADDENDUM 2

SITE PLANS

C11

100% CD BID SET

MATCHLINE-SEE SHEET C10

MATCHLINE-SEE SHEET C11

EXISTING ASPHALT ENTRY ROAD TO REMAIN

GRASS OVERFLOW PARKING

EXISTING CURB TO REMAIN

EXISTING PARKING LOT ENTRANCE TO REMAIN

EXIST. VERTICAL CURB TO REMAIN

TOC=-2.14
INV=-8.19

TYP. PROTECT EXISTING UTILITIES DURING CONSTRUCTION

TOC=-0.84
INV=-4.39

TYP. PROTECT EXISTING UTILITIES DURING CONSTRUCTION

THROUGHOUT, CLEAN EXISTING DRAIN LINES

EXISTING INLET TO REMAIN

TOC=-2.53
INV=-6.03

EXISTING INLET TO REMAIN

TOC=-2.54
INV=-6.49

TOC=-2.55
INV=-7.00

EXISTING INLET TO REMAIN

BOTTOM OF NEW CURB TO MATCH EXIST. PAVEMENT ELEVATION.
TOP OF CURB SET 6" ABOVE EXIST. PAVEMENT (TYP)

EXISTING CURB TO REMAIN ~135 LF

EXISTING FACE OF CURB

WHITE PARKING STRIPING TYP.

EXISTING ASPHALT PARKING LOT TO REMAIN EXCEPT WHERE REMOVED FOR PARKING ISLAND

EXISTING INLET TO REMAIN

TOC=-2.53
INV=-5.54

EXISTING INLET TO REMAIN

TOC=-2.54
INV=-6.09

TOC=-2.53
INV=-6.38

BLUE ADA PARKING STRIPING W/ ADA SYMBOL TYP.

EXISTING CURB TO REMAIN ~38 LF

EXISTING PARKING LOT ENTRANCE TO REMAIN

EXISTING CONCRETE TO REMAIN

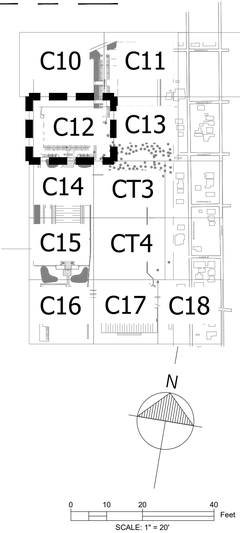
EXISTING CONCRETE TO REMAIN

EXIST. WILLOW GROVE TO REMAIN

6"W

MATCHLINE-SEE SHEET C13

MATCHLINE-SEE SHEET C14



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504.553.3384
multi.studio.com

structural engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

civil engineer:
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Suite 140
Arlington, Texas 76010
216.965.5929
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mep engineer:
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3701 Hessmer Ave
Metairie, LA 70002
504.264.5111
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food service:
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101 Kramer Ct
Mandeville, LA 70471
985.874.5710
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Issue Date: NOVEMBER 06, 2025

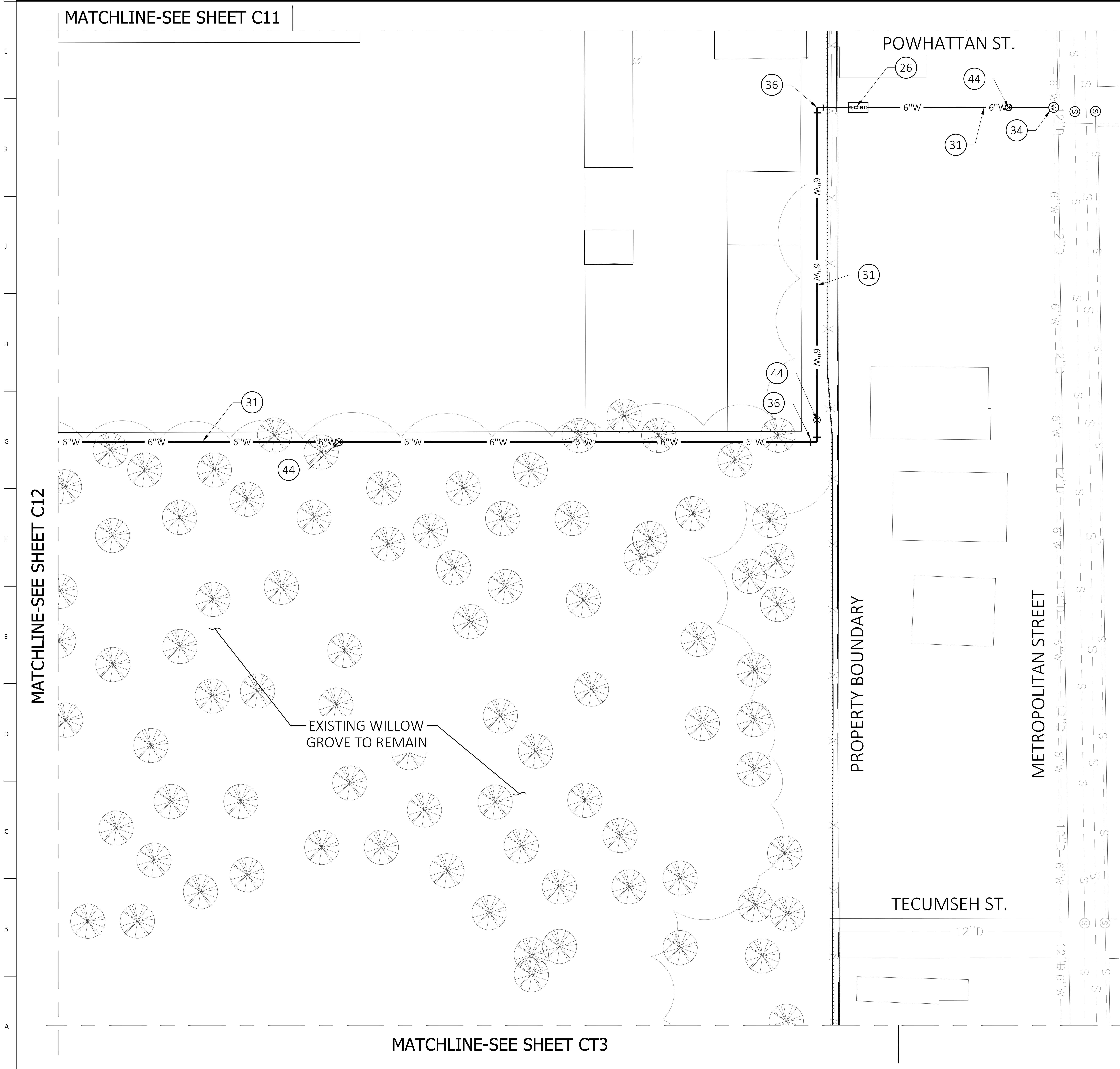
Revisions

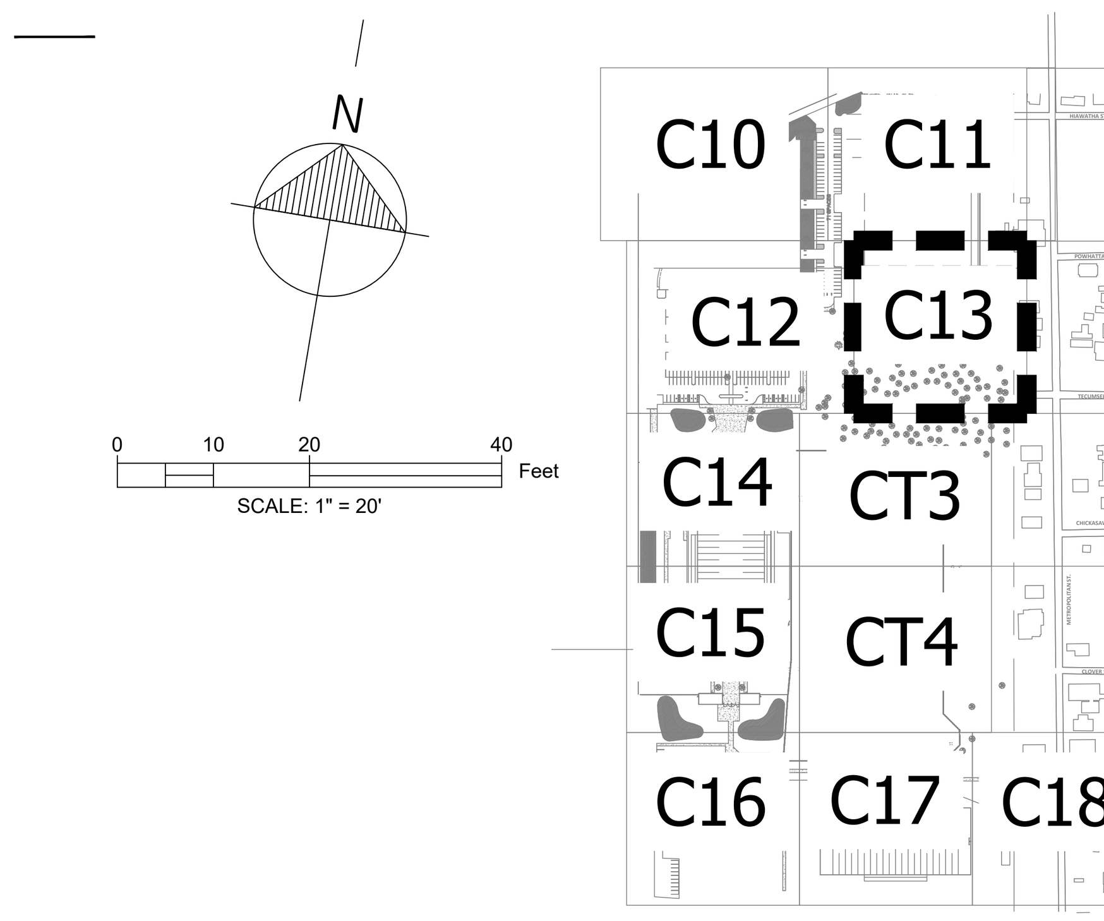
1 — 01/22/2026 ADDENDUM 2

SITE PLANS

C12

100% CD BID SET





SITE PLAN LEGEND

[fill]	MILL AND OVERLAY EXIST. PAVEMENT	[fill]	PLANTING AREA, REF LANDSCAPE	[fill]	4" THICK CONCRETE
[fill]	DETENTION AREA	[fill]	5" THICK CONCRETE OR 7" THICK CONCRETE	[fill]	5" THICK ASPHALT

(SIZE) W	REQ'D WATER LINE	(SIZE) D	REQ'D DRAIN LINE
(SIZE) S	REQ'D SEWER LINE	(SIZE) PP	REQ'D PERFORATED DRAIN LINE

1	NEW PARKING ISLAND WITH 6" BARRIER CURB. TYP. SEE DETAIL 2, SHEET C27	23	NEW 5" ASPHALT DRIVEWAY SEE DETAIL 12, SHEET C28
2	NEW PARKING STRIPING	24	NEW 7" CONCRETE SLAB SEE DETAIL 10, SHEET C28
3	NEW STADIUM BLEACHER. REF. STRUCTURAL	25	NEW 6" RIBBON CURB SEE DETAIL 8, SHEET 27 AND DETAIL 11, SHEET C28
4	NEW PILE SUPPORTED BUILDING SEE STRUCTURAL	26	MASTER METER AND BACKFLOW PREVENTER PER SWBNO STANDARDS
5	MILL AND OVERLAY EXISTING ASPHALT DRIVEWAY. SEE DETAIL 7, SHEET C27	27	DRAIN LINE TO OUTFALL INTO DETENTION AREA. INSTALL RIP RAP AT OUTFALLS. INVERT OF OUTFALL PIPE TO MATCH BOTTOM OF POND
6	CURB TRANSITION FROM VERTICAL CURB TO 0" CURB	28	12"X12" DROP INLET SEE DETAIL 5, SHEET C27
7	NEW ARTIFICIAL TURF SPORTS FIELD. REFERENCE ARCHITECTUAL SEE DETAIL 8, SHEET C27 (1)	29	CURB CUTS IN ISLANDS TO ENSURE FLOW TO DRAIN INLETS SEE DETAIL 3, SHEET C27
8	REMOVE EXISTING CURB WHERE NEW CONCRETE MEETS EXISTING ASPHALT	30	4" TRENCH DRAIN W/ 4" PVC LINE CONNECTED TO 6" PERFORATED PIPE SEE DETAIL 14, SHEET C28
9	NEW SLIDING GATE PER ARCH	31	NEW C900 PVC WATER LINE, EXCEPT AT BENDS, WHICH REQUIRE DUCTILE IRON PIPE FITTINGS
10	NEW FIRE HYDRANT PER SWBNO STANDARDS. SEE TYPICAL SWBNO DETAIL, SHEET C29	32	NEW PVC SEWER LINE
11	NEW 5" CONCRETE DRIVEWAY/ CONCOURSE. SEE DETAIL 9, SHEET C28	33	NEW PVC DRAIN LINE
12	4" CONCRETE SIDEWALK SEE DETAIL 1, SHEET C27	34	TIE INTO EXIST. WATER MAIN W/ NEW MANHOLE, 6x6x6 VALVE & TAPPING SLEEVE PER SWBNO STANDARDS
13	CONCRETE CURB IN ASPHALT PAVING, SEE DETAIL 17, SHEET C29	35	UTILITY CLEANOUT SEE DETAIL 4, SHEET C27
14	NEW CHAIN LINK FENCE. REF ARCH FOR LAYOUT	36	90° DUCTILE IRON MECHANICAL JOINT, SEE UTILITY NOTE 11
15	PAVEMENT MARKINGS, SEE DETAIL 13, SHEET C28	37	NEW BIKE RACKS PER ARCH
16	6" BARRIER CURB, SEE DETAIL 2, SHEET C27	38	12"x1" COMPOSITE FLAT DRAIN, SEE DETAIL 8, SHEET 27
17	TIE NEW DRAINLINE INTO EXIST LINE W/ DRAIN MANHOLE PER DPW STANDARDS	39	45° DUCTILE IRON MECHANICAL JOINT, SEE UTILITY NOTE 11
18	DETENTION AREA, REF LANDSCAPE AND GRADING SHEETS	40	GREASE TRAP PER MEP
19	NEW BERM, REF LANDSCAPE AND GRADING PLANS.	41	6' WHEEL STOP SEE DETAIL 15, SHEET 28
20	NEW LIGHTING, REF MEP.	42	WATER VALVE AND HOSE BIB IN VALVE BOX BELOW GRADE
21	7" CONCRETE DUMPSTER PAD WITH ENCLOSURE FENCE	43	6" VERTICAL CURB. SEE DETAIL 17, SHEET C29.
22	INSTALL RCP CULVERTS, SIZE PER PLAN, AT SIDEWALK CROSSING OVER DITCH SEE DETAIL 16, SHEET 29	44	WATER VALVE IN MANHOLE, SEE SHEET 29 SWB STD 6179-F-2

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CONSULTANTS, LLC
2018 JENA STREET
NEW ORLEANS, LA 70115
504.350.2644
maraisconsultants.com

PROFESSIONAL OF RECORD:
jenny@maraisconsultants.com

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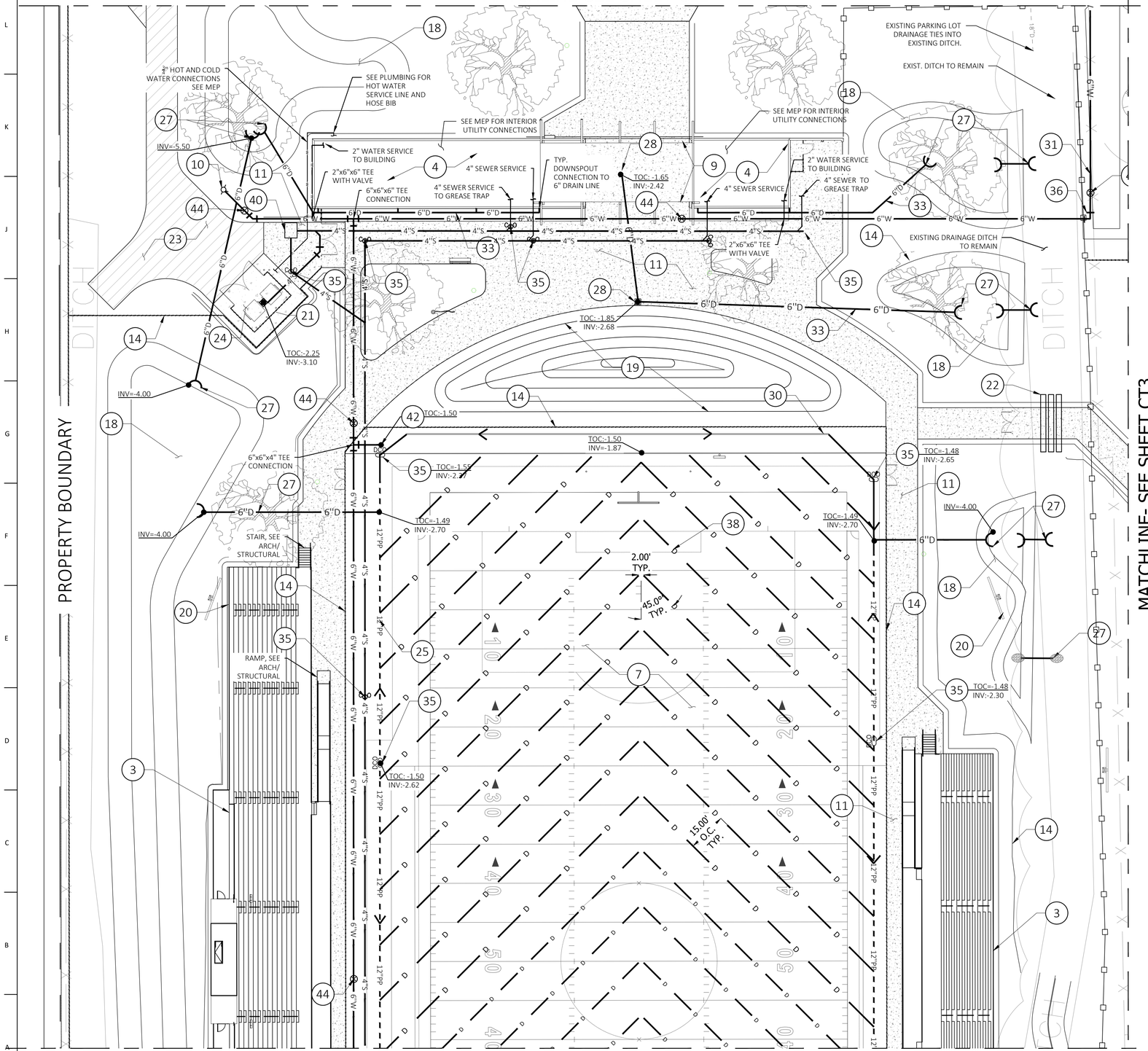
JENNIFER M. SNAPE
License No. 35470
PROFESSIONAL ENGINEER
IN
1/22/26
CIVIL ENGINEERING

SITE PLANS

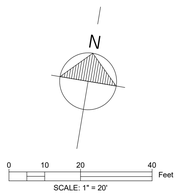
C13

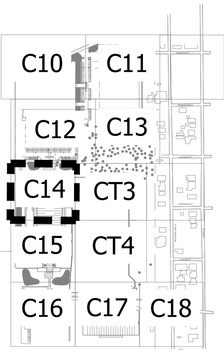
100% CD BID SET

MATCHLINE-SEE SHEET C12



MATCHLINE-SEE SHEET C15





SITE PLAN LEGEND

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DETENTION AREA
5" THICK CONCRETE OR 7" THICK CONCRETE
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9. NEW SLIDING GATE PER ARCH
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11. NEW 5" CONCRETE DRIVEWAY/ CONCOURSE. SEE DETAIL 9, SHEET C28
12. 4" CONCRETE SIDEWALK SEE DETAIL 1, SHEET C27
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MARAIS
CONSULTANTS, LLC
2018 JENA STREET
NEW ORLEANS, LA 70115
504.350.2644
maraisconsultants.com
PROFESSIONAL OF RECORD:
jenny@maraisconsultants.com

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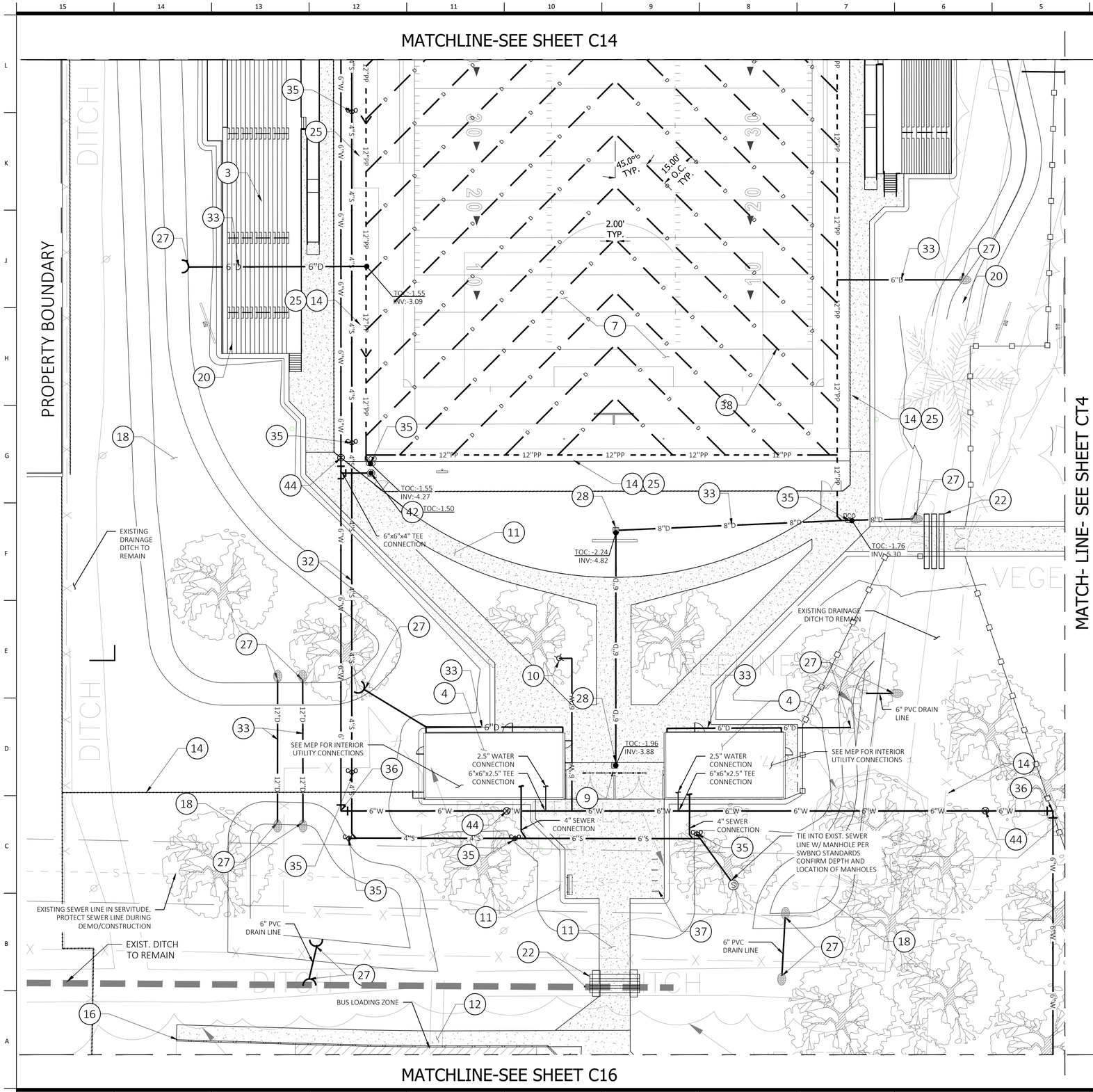
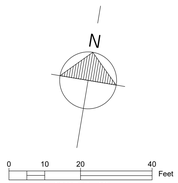
1/22/26

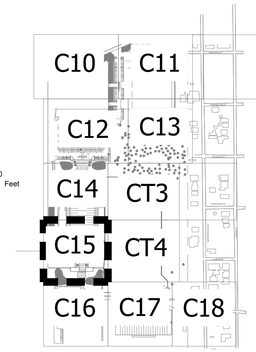
SITE PLANS

C14

100% CD BID SET







SITE PLAN LEGEND

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4" THICK CONCRETE
DETENTION AREA
5" THICK CONCRETE OR 7" THICK CONCRETE
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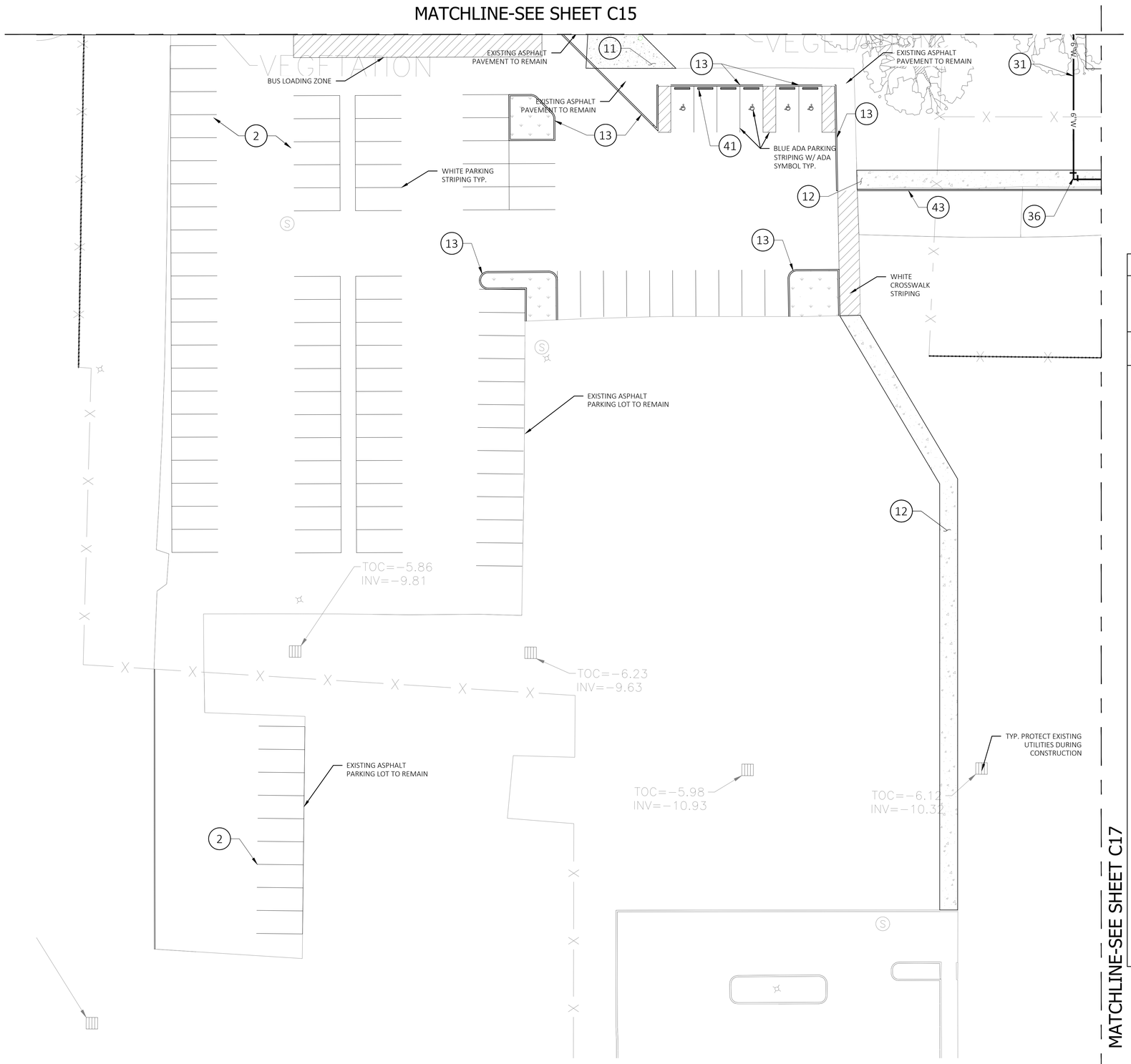

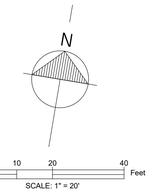

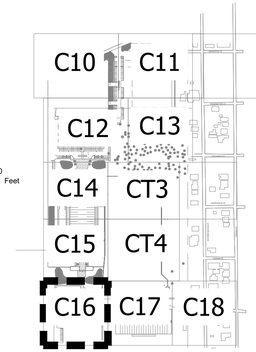

SITE PLAN LEGEND

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39. 45° DUCTILE IRON MECHANICAL JOINT, SEE UTILITY NOTE 11
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41. 6' WHEEL STOP SEE DETAIL 15, SHEET 28
42. WATER VALVE AND HOSE BIB IN VALVE BOX BELOW GRADE
43. 6" VERTICAL CURB. SEE DETAIL 17, SHEET C29.
44. WATER VALVE IN MANHOLE, SEE SHEET 29 SWB STD 6179-F-2

MARAIS
CONSULTANTS, LLC
2018 JENA STREET
NEW ORLEANS, LA 70115
504.350.2644
maraisconsultants.com

PROFESSIONAL OF RECORD:
jenny@maraisconsultants.com

WILLIAMS ARCHITECTS + multistudio

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Orleans Parish School
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New Orleans, LA 70113
504.566.0888
williamsarchitects.com

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structural engineer:
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985.874.5710
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1	01/22/2026 ADDENDUM 2

SITE PLANS

C16

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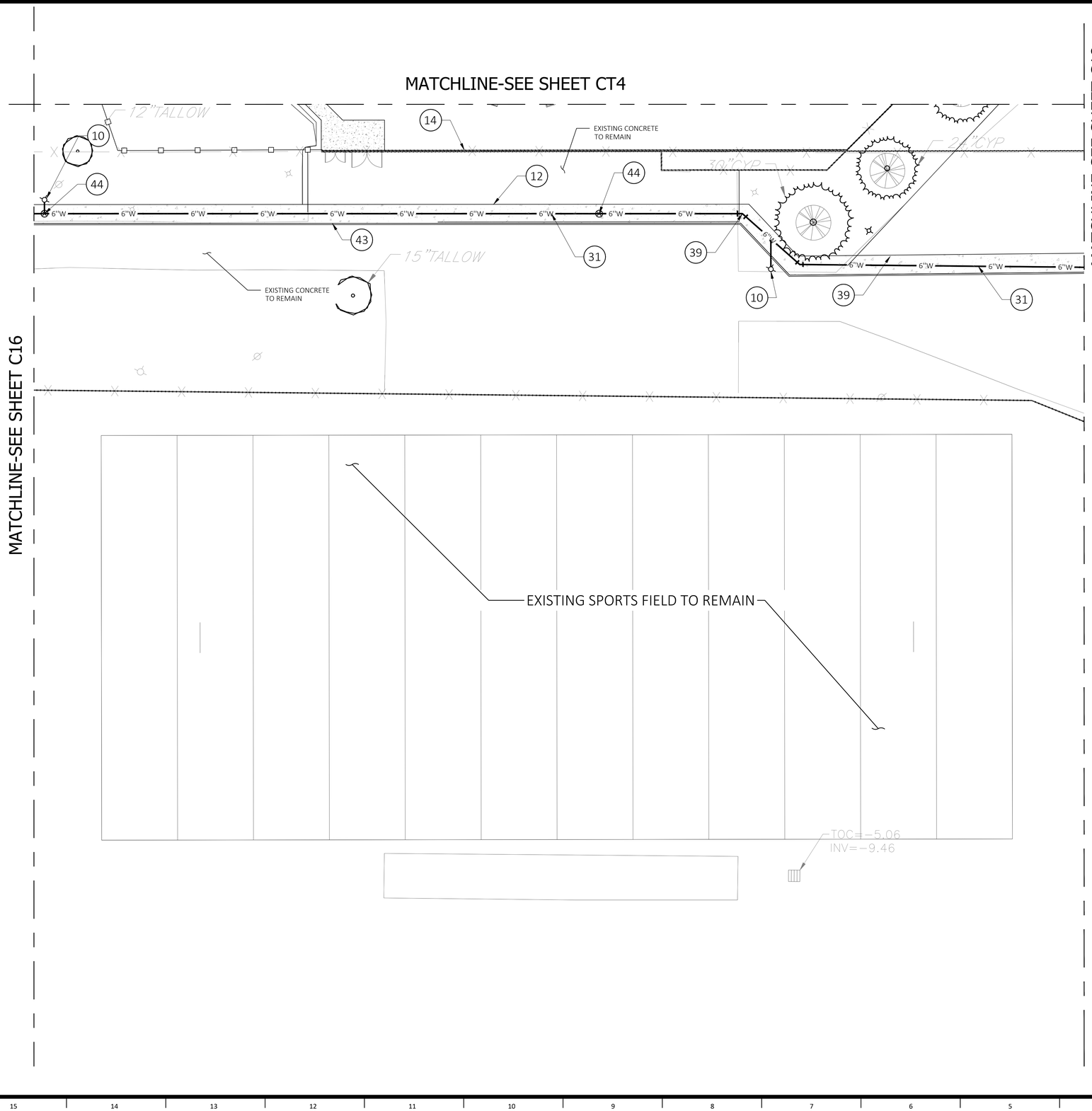

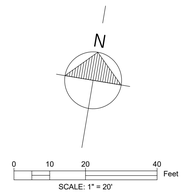

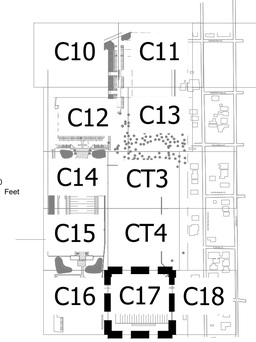

SITE PLAN LEGEND

MILL AND OVERLAY EXIST. PAVEMENT	PLANTING AREA, REF LANDSCAPE	4" THICK CONCRETE
DETENTION AREA	5" THICK CONCRETE OR 7" THICK CONCRETE	5" THICK ASPHALT
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C17

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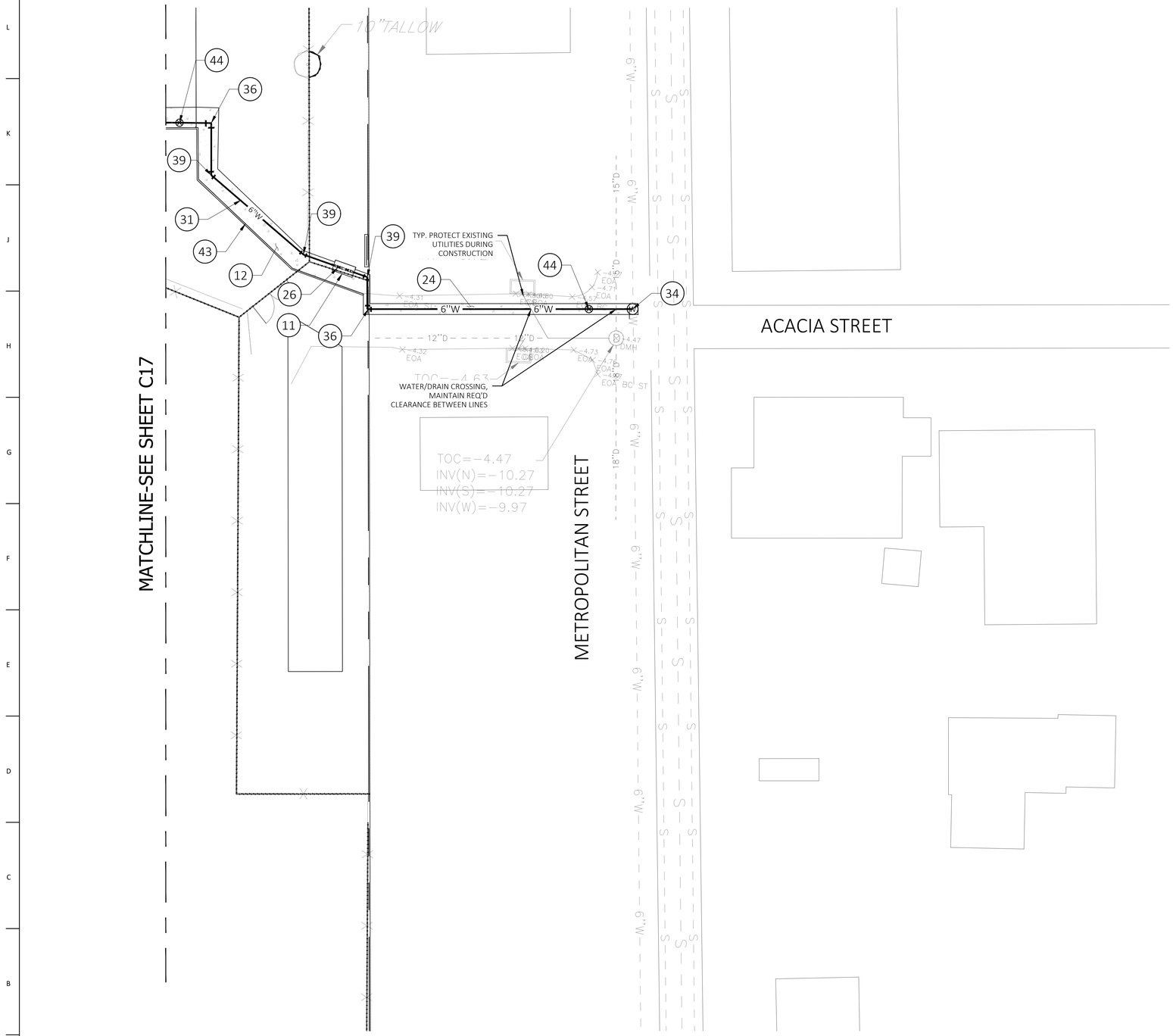

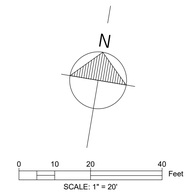

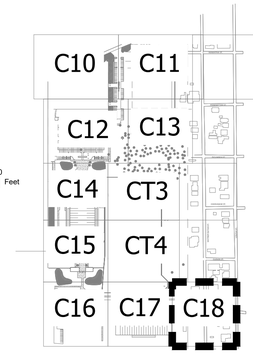

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C18

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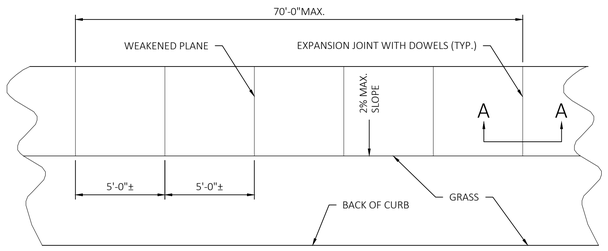
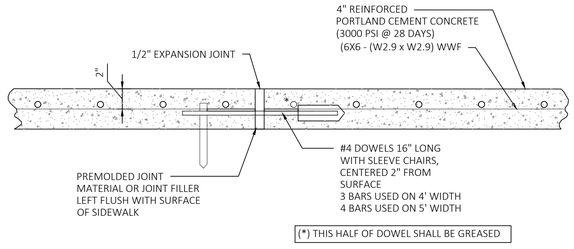


PLAN VIEW

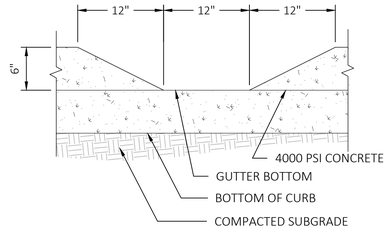


SECTION A-A

NOTES:

1. SAND SUBBASE SHOULD BE COMPACTED TO 95% OF IT'S MAXIMUM DRY DENSITY NEAR OPTIMUM WATER CONTENT USING ASTM D 1557.
2. COMPACTED SAND (I.E. RIVER SAND) - SHALL BE NON-PLASTIC AND FREE OF ROOTS, CLAY LUMPS, AND OTHER DELETERIOUS MATERIALS WITH NO MORE THAN 10% BY WEIGHT OF MATERIAL PASSING A U.S. STANDARD NO. 200 MESH SIEVE. MAXIMUM ORGANIC CONTENT SHOULD NOT EXCEED 5% BY WEIGHT. PRIOR TO TRANSPORTING FILL TO THE SITE, A SAMPLE SHOULD BE TESTED TO VERIFY IT'S CONFORMANCE TO THESE REQUIREMENTS.
3. ASPHALT SHALL CONFORM TO THE MATERIAL AND CONSTRUCTION REQUIREMENTS FOR ASPHALT PAVEMENT AS SPECIFIED IN THE LSSRB.
4. GEOTEXTILE STABILIZATION FABRIC SHALL MEET OR EXCEED THE MATERIAL REQUIREMENTS IN SECTION 1019.01 OF THE LSSRB. A CLASS C GEOTEXTILE SHOULD BE USED AND PLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS
5. SUBGRADE PREPARATION - AFTER STRIPPING, CLEARING, AND DEMOLITION OPERATIONS, THE EXPOSED GROUND SHOULD BE PROOFROLLED WITH A BULLDOZER, COMPACTOR, OR TRACKED VEHICLE EXERTING A GROUND PRESSURE BETWEEN 10 AND 15 PSI. THE VIBRATORY SYSTEM ON THE COMPACTOR, IF PRESENT, SHOULD NOT BE USED DURING PROOFROLLING. ANY WEEK AREAS SHOULD BE REMOVED AND BACKFILLED WITH COMPACTED SAND. CLEARING AND COMPACTION OPERATIONS SHALL ONLY BE PERFORMED DURING PERIODS OF DRY WEATHER.

1 4" CONCRETE SIDEWALK
C27 — NOT TO SCALE



3 TYPICAL CURB GAP DETAIL
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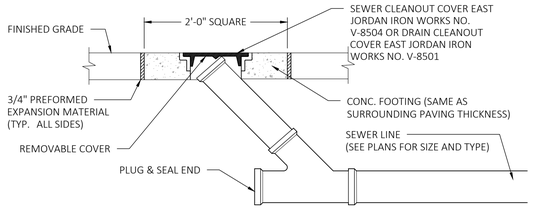

4 TYPICAL DRAIN/SEWER CLEANOUT
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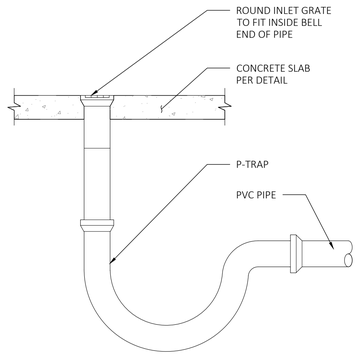
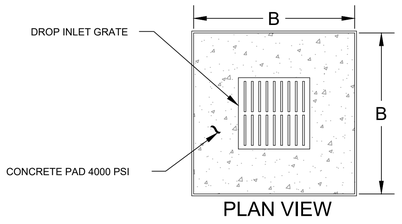
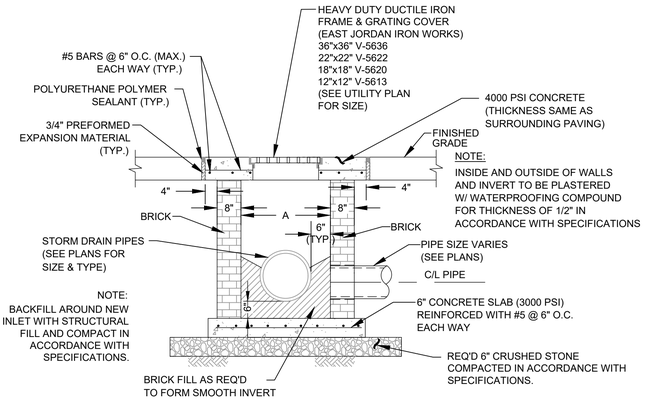


6 TYPICAL DUMPSTER PAD INLET
C27 — NOT TO SCALE



PIPE SIZE	A	B
12"	30"	54"
15"	33"	57"
18"	36"	60"

PLAN VIEW



5 DETAIL OF DRAINAGE INLET
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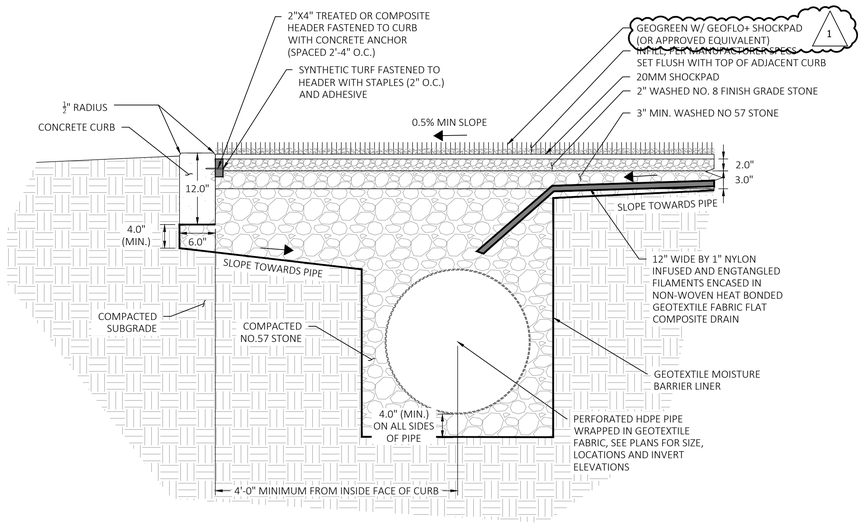

8 TYPICAL SECTION AT SPORTS FIELD
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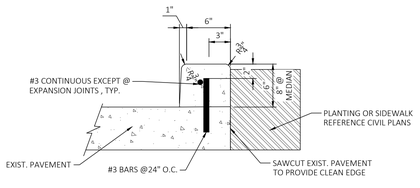

2 BARRIER CURB DETAIL
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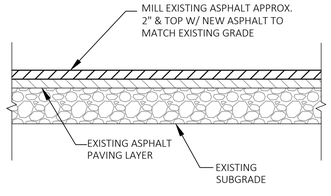

7 TYPICAL MILL AND OVERLAY DETAIL
C27 — NOT TO SCALE

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MARAIS
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CIVIL DETAILS

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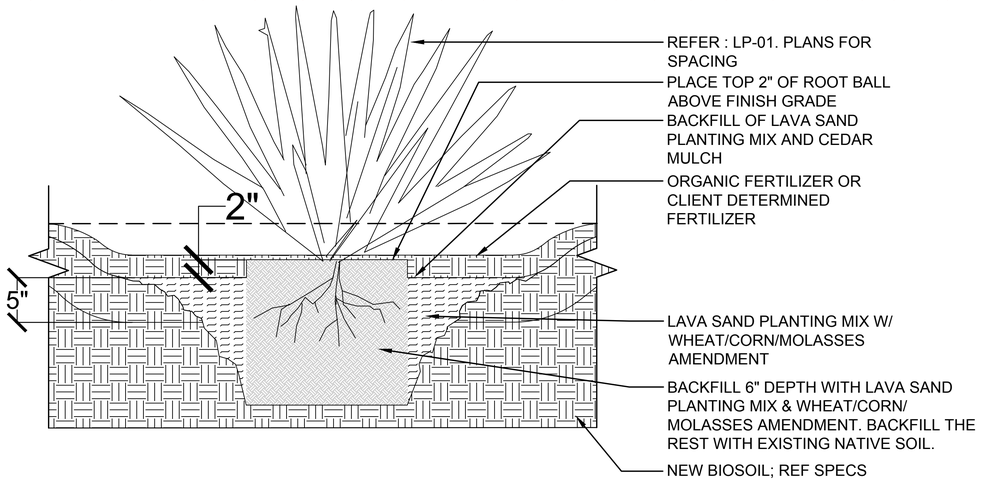
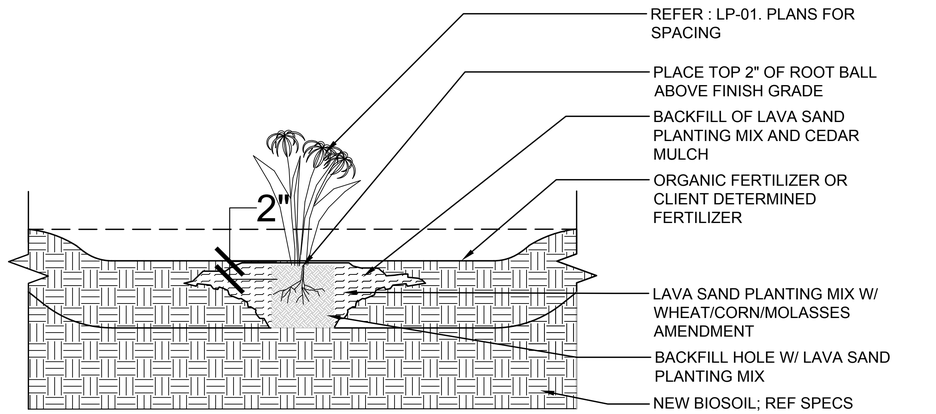


1 L2.0 L2.12 RAIN GARDEN PLANTING - 5 - 15 GAL.

1" = 1'-0" PLANTING DETAILS



2 L2.0 L2.12 RAIN GARDEN PLANTING - 1 - 3 GAL

1-1/2" = 1'-0" PLANTING DETAILS

LANDSCAPE DETAIL NOTES:

BED PREPARATION NOTES

1. PREPARE THE PLANTING BEDS FOR ORNAMENTAL PLANTS BY SCRAPING AWAY EXISTING GRASS AND WEEDS. TOSS THE MATERIAL INTO THE COMPOSITE PILE.
2. NEXT ADD 6" LAYER OF LAVA SAND PLANTING MIX MATERIAL AT 40 TO 80 LBS. PER 1,000 SQ FT.
3. ADD WHEAT/CORN/MOLASSES AMENDMENT AT 30 LBS. PER 1,000 SQ FT.
4. TILL THE SOIL TO A DEPTH OF 3" INTO THE NATIVE SOIL BEFORE PLANTING.
5. SPRAY ORGANIC FERTILIZER. 1 GALLON FOR EVERY 1,000 SQ. FT. FOR CONCENTRATE ADD 2 TO 4 OZ. TO 1 GALLON OF WATER & SPRAY FOLIAGE AND SOIL BI-WEEKLY.

SHRUB PLANTING NOTES

1. PLANTING BEDS MUST BE MOISTENED BEFORE PLANTING BEGINS.
2. PLANTS SHOULD BE WATERED BY STICKING THE HOSE DOWN BESIDE THE BALL AND SOAKING THOROUGHLY.
3. CUT OR TEAR POT-BOUND ROOTS FROM THE OUTSIDE EDGE OF THE BALL BEFORE PLANTING.
4. DIG A DISH SHAPED HOLE AND SET THE PLANT ON FIRM EXISTING SOIL.
5. ROOT BALL MUST BE 2" ABOVE FINISH GRADE.
6. BACKFILL WITH PREPPED BED SOIL.
7. SETTLE THE SOIL AROUND THE PLANT BY WATERING SLOWLY TO REMOVE ALL AIR POCKETS.
8. DO NOT TAMP THE SOIL AROUND PLANTS.
9. MULCH BARE SOIL, BUT DO NOT ALLOW THE MULCH TO PILE UP AGAINST THE TRUNK OF THE PLANT.
10. FOR ORNAMENTAL GRASS, SHRUB, AND GROUNDCOVER 1 GAL. PLANTING REFERENCE DETAILS ON L2.7.

WILLIAMS ARCHITECTS + multistudio

MULTI-SPORT VENUE IN EASTERN NEW ORLEANS AND LOWER NINTH WARD

OPSB Project Number: **ITB 26-FAC-0053**

4290 Almonaster Avenue
New Orleans, LA 70126

owner:
Orleans Parish School Board
2401 Westbend Parkway
New Orleans, LA 70114
504.304.5612
nolapublicschools.com

Project Number: WA-523012/MS-1323-1080

architect of record:
Williams Architects
824 Baronne St.
New Orleans, LA 70113
504.566.0888
williamsarchitects.com

architect:
Multistudio
1501 Religious St Suite A
New Orleans, LA 70130
504.681.6303
multi.studio

structural engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

civil engineer:
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designjonesllc.com

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504.264.5111
ykhconsulting.com

food service:
Moynan Consulting
101 Kramer Ct
Mandeville, LA 70471
985.874.5710
moynanconsulting.com

Issue Date: January 22, 2026

Revisions

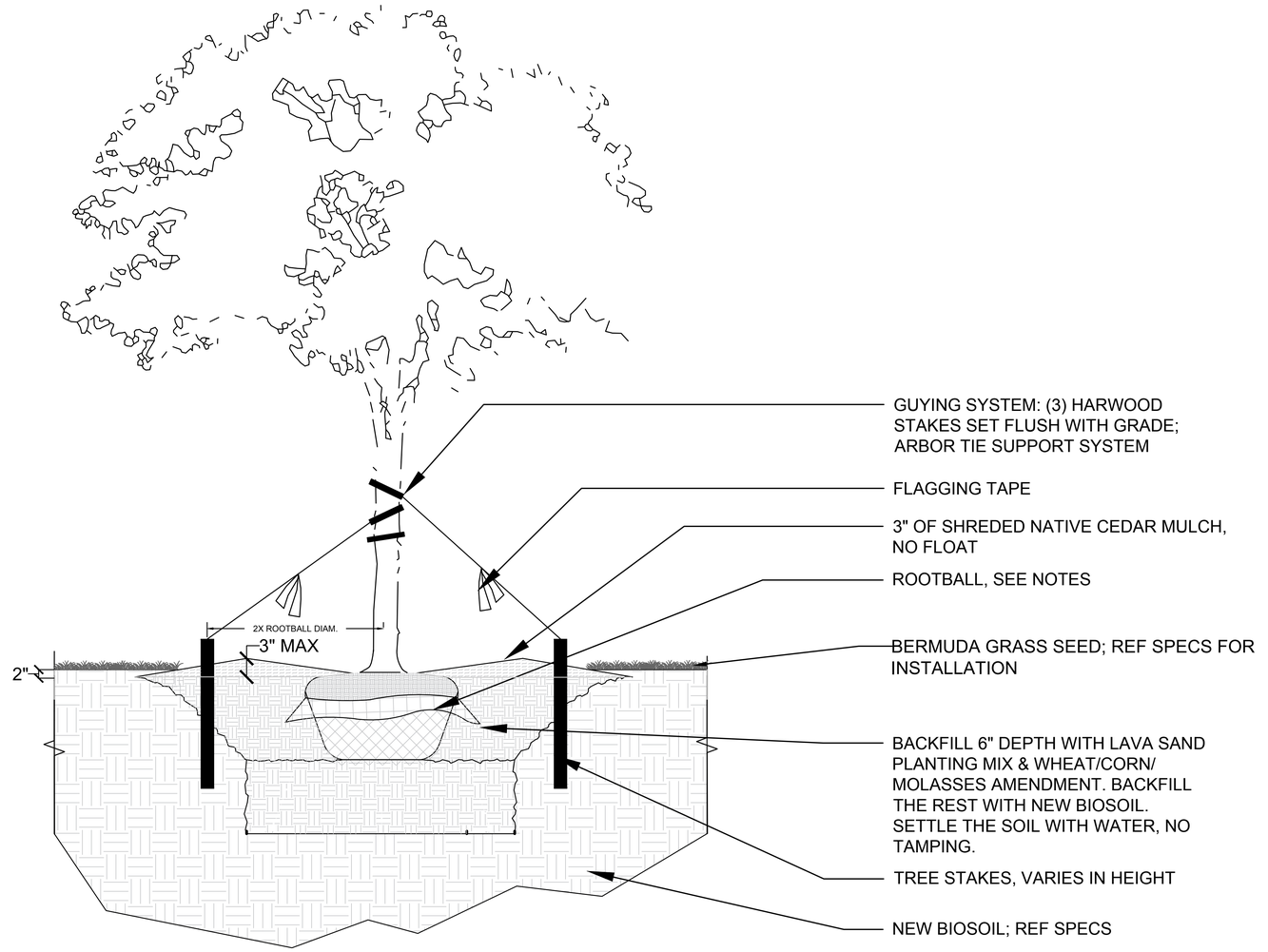
NUMBER	DESCRIPTION	DATE
1	Addendum 2	01.22.26

DIANE JONES — No. 0824 — STATE OF LOUISIANA — LANDSCAPE ARCHITECT
01/22/2026

LANDSCAPE PLAN - DETAILS

L2.12

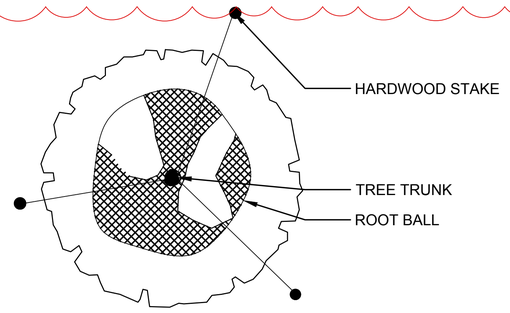
100% CONSTRUCTION SET



1 L2.0 L2.14 — TREE PLANTING - RAIN GARDEN

3/4" = 1'-0"

PLANTING DETAILS



NOTES:

1. TREES WITH CALIPER MEASUREMENTS 1-1/2" AND GREATER MUST BE ANCHORED.
2. TREES LESS THAN 1-1/2" CALIPER SHALL NOT BE ANCHORED.

2 L2.14 — TREE PLANTING - AERIAL VIEW

NTS

LANDSCAPE DETAIL NOTES:

BED PREPARATION NOTES

1. PREPARE THE PLANTING BEDS FOR ORNAMENTAL PLANTS BY SCRAPING AWAY EXISTING GRASS AND WEEDS. TOSS THE MATERIAL INTO THE COMPOSITE PILE.
2. NEXT ADD 6" LAYER OF LAVA SAND PLANTING MIX MATERIAL AT 40 TO 80 LBS. PER 1,000 SQ FT.
3. ADD WHEAT/CORN/MOLASSES AMENDMENT AT 30 LBS. PER 1,000 SQ FT.
4. TILL THE SOIL TO A DEPTH OF 3" INTO THE NATIVE SOIL BEFORE PLANTING.
5. SPRAY ORGANIC FERTILIZER. 1 GALLON FOR EVERY 1,000 SQ. FT. FOR CONCENTRATE ADD 2 TO 4 OZ. TO 1 GALLON OF WATER & SPRAY FOLIAGE AND SOIL BI-WEEKLY.

TREE PLANTING NOTES

1. REMOVE ANY SOIL THAT HAS BEEN ADDED TO THE TOP OF ROOT BALLS. EXPOSE THE ACTUAL TOP OF THE ROOT BALL. THE ROOT BALL TOP SHOULD BE 2" ABOVE FINISH GRADE.
2. ROUGHEN THE SIDES OF THE HOLE WITH A SHOVEL. THE HOLE SHOULD BE SAUCER SHAPED OR SQUARE. BOTH WILL PROVIDE AERATED SOIL AND PREVENT ROOTS FROM CIRCLING IN THE HOLE.
3. WHEN PLANTING A TREE THAT COMES IN A CONTAINER: LOOSEN ROOTS BY HAND AT THE BOTTOM OF THE TREE BALL BEFORE PLACING IN THE HOLE.
4. WHEN PLANTING A TREE THAT COMES AS BALLED AND BURLAP: LEAVE THE BURLAP ON THE SIDES OF THE ROOT BALLS AFTER PLANTING, BUT LOOSEN THE BURLAP AT THE TRUNKS AND REMOVE IT FROM THE TOP OF THE BALLS. REMOVE ANY NYLON ,PLASTIC OR WIRE STRING/ MESH BEFORE PLANTING.
5. TREE ROOTS SHALL BE KEPT MOIST THROUGH TRANSPORT AND THE PLANTING PROCESS.
6. AFTER DIGGING A HOLE, RUN A PERK TEST. FILL THE HOLE WITH WATER AND WAIT UNTIL THE NEXT DAY. IF THE WATER LEVEL HAS GONE DOWN THEN CONTINUE TO INSTALL THE TREES. IF NOT, CONTACT THE LANDSCAPE ARCHITECT BEFORE MOVING FORWARD.

FOR TREES THAT WILL BE TRANSPLANTED FROM WILLOW GROVE:

7. WILLOW TREE SAPLINGS THAT WILL BE SELECTED FROM EXISTING WILLOW GROVE ARE TO BE POTTED AND MOVED TO BE TRANSPLANTED IN ACCORDANCE TO THE LANDSCAPE SPECIFICATIONS.
8. WHEN PLANTED IN NEW LOCATION, ALL PLANTING NOTES TO BE FOLLOWED AS SPECIFIED WITH NEW TREES.

AFTER BACKFILLING:

9. ADD 6" OF LAVA SAND PLANTING MIX
10. ADD 3" OF NATIVE CEDAR MULCH
11. DO NOT BUILD WATER-RING DIKES WITH MULCH
12. DO NOT PILE MULCH ON TRUCKS
13. DO NOT WRAP TREE TRUNKS
14. DO NOT THIN OR TOP TREES
15. DO NOT PLANT GRASS OR ANY PLANTS OVER THE TREE BALLS, UNTIL THE TREE IS ESTABLISHED.

WILLIAMS ARCHITECTS + multistudio

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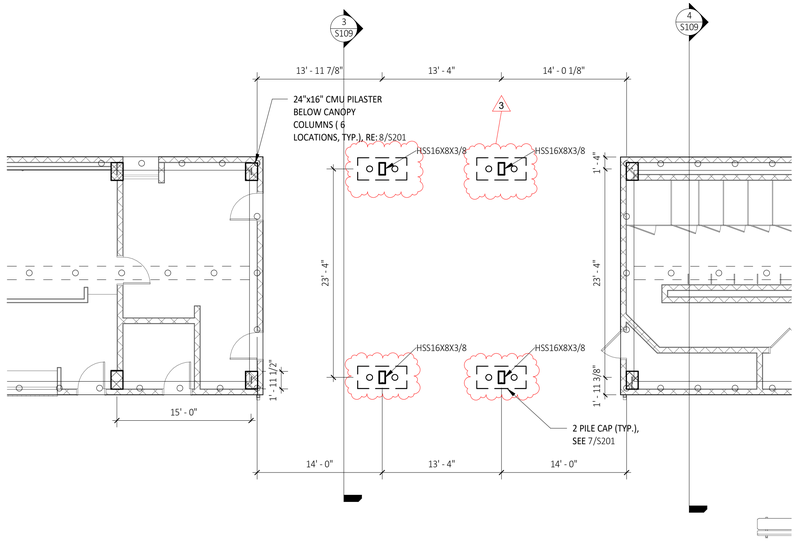
LANDSCAPE PLAN - DETAILS

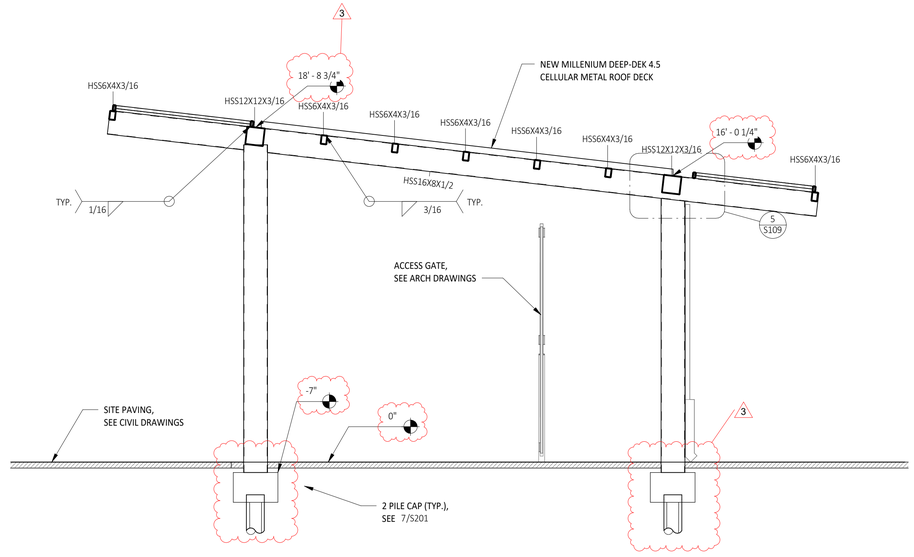
L2.14

100% CONSTRUCTION SET



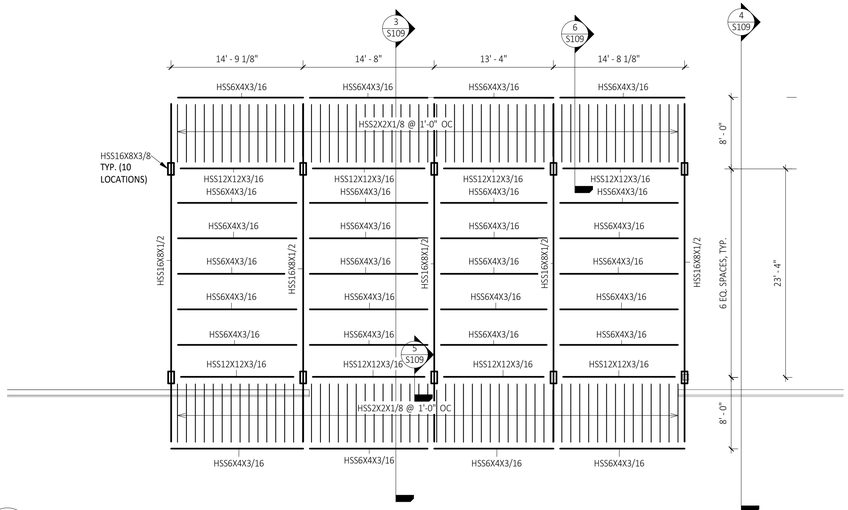
1 CANOPY FOUNDATION PLAN

S001 | S109 1/8" = 1'-0"



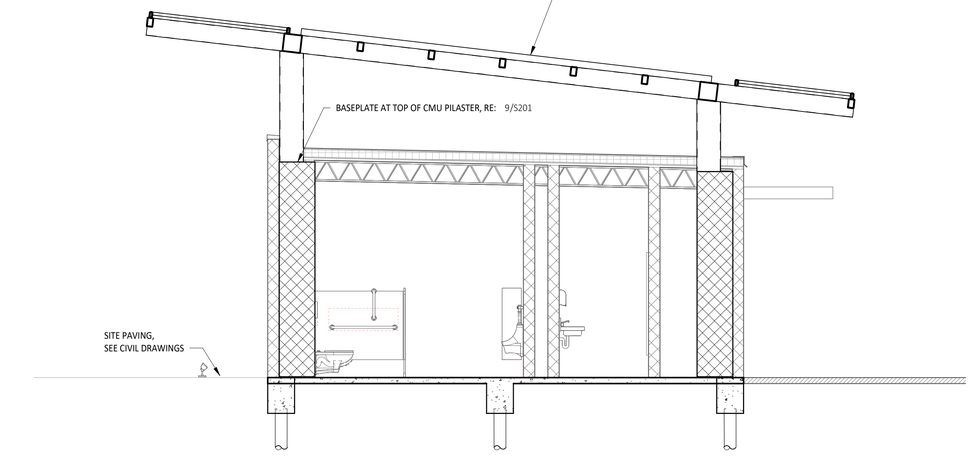
3 SECTION

S109 | S109 1/4" = 1'-0"



2 CANOPY ROOF FRAMING PLAN

S109 1/8" = 1'-0"



4 SECTION

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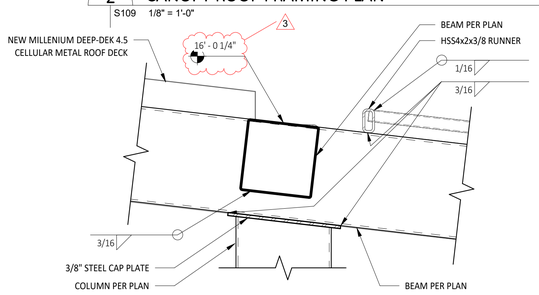
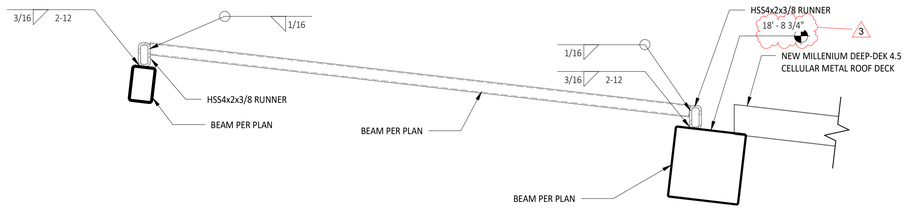


5 SECTION

S109 | S109 1" = 1'-0"



6 SECTION

S109 | S109 1" = 1'-0"

WILLIAMS ARCHITECTS + multistudio

9TH WARD STADIUM

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Anytown, USA 00000
000.000.0000
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mep engineer:
MEP Engineer
123 Anystreet
Anytown, USA 00000
000.000.0000
www.website.com

food service:
Moynan Consulting
101 Kramer Ct
Mandeville, LA 70471
985.874.5710
moynanconsulting.com

Issue Date: November 6, 2025

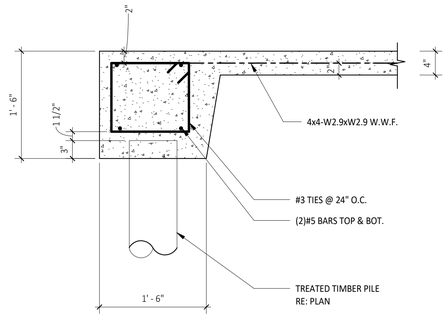
Revisions

NUMBER	DESCRIPTION	DATE
	Addendum No. 2	1/22/2026

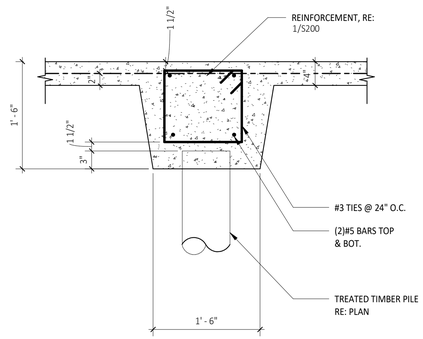
CANOPY FOUNDATION PLAN, FRAMING PLAN, & SECTIONS

S109

100% Construction Set



1 SECTION
S105 | S200 1" = 1'-0"



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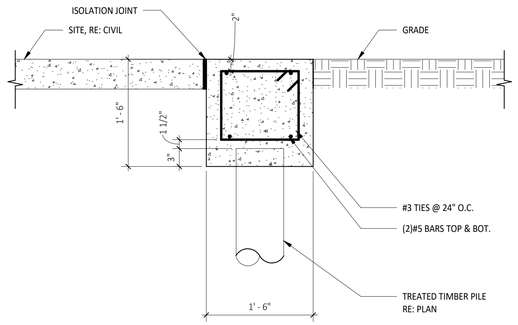

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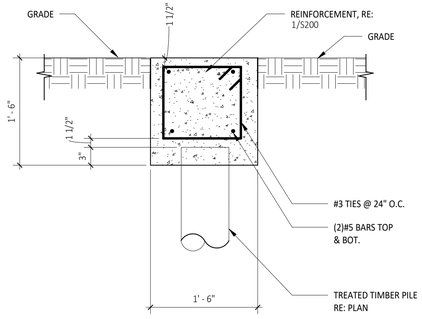

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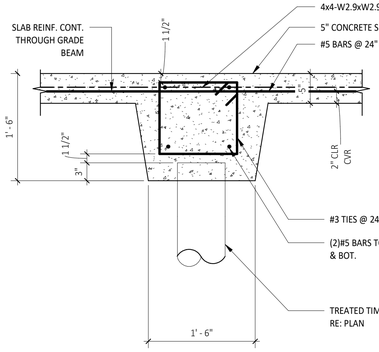

5 SECTION
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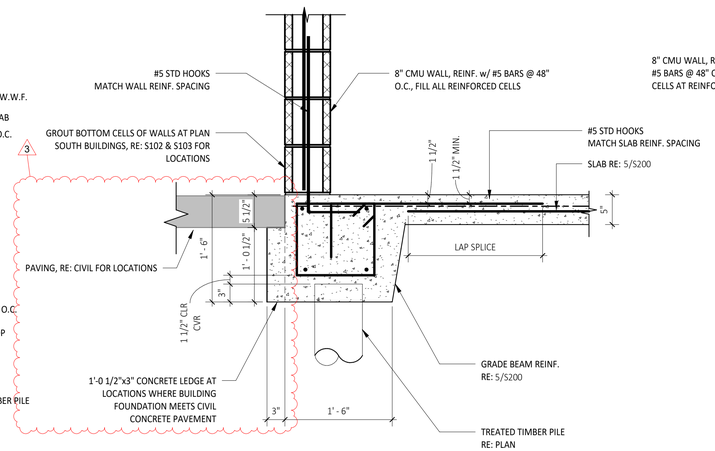

6 SECTION
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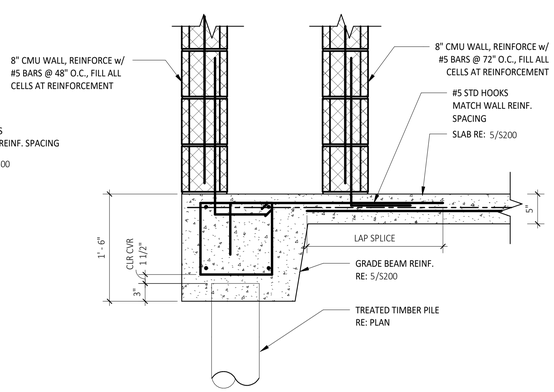

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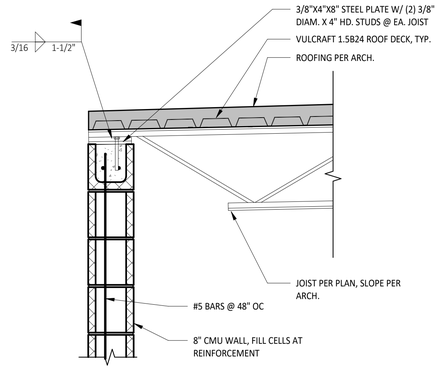
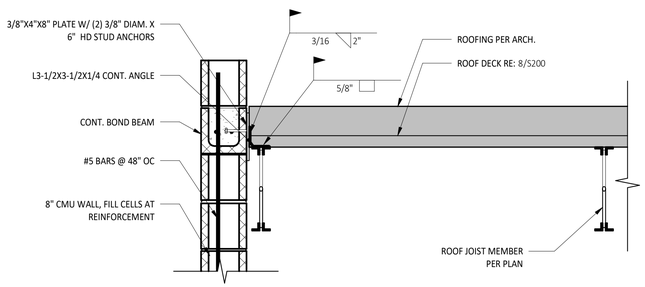
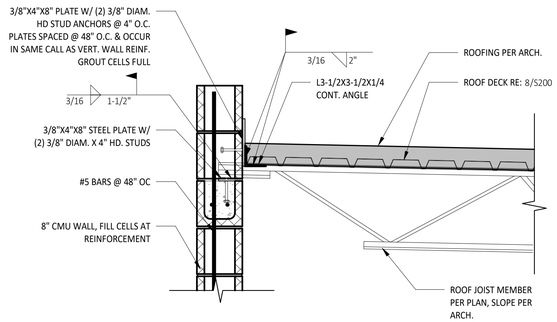


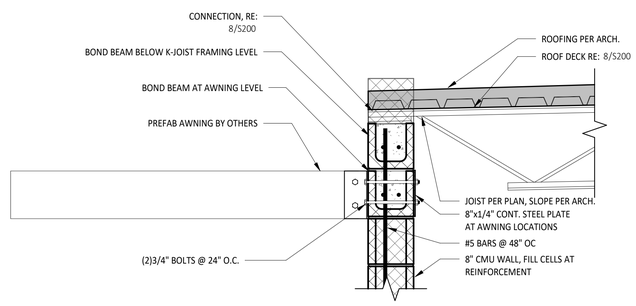
8 ROOF FRAMING AT EXT LOAD-BEARING WALL
S102 | S200 1" = 1'-0"



9 ROOF FRAMING AT PARAPET
S100 | S200 1" = 1'-0"



10 ROOF FRAMING AT PARAPET
S100 | S200 1" = 1'-0"



11 SECTION
S100 | S200 1" = 1'-0"

WILLIAMS ARCHITECTS
+
multistudio

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Revisions

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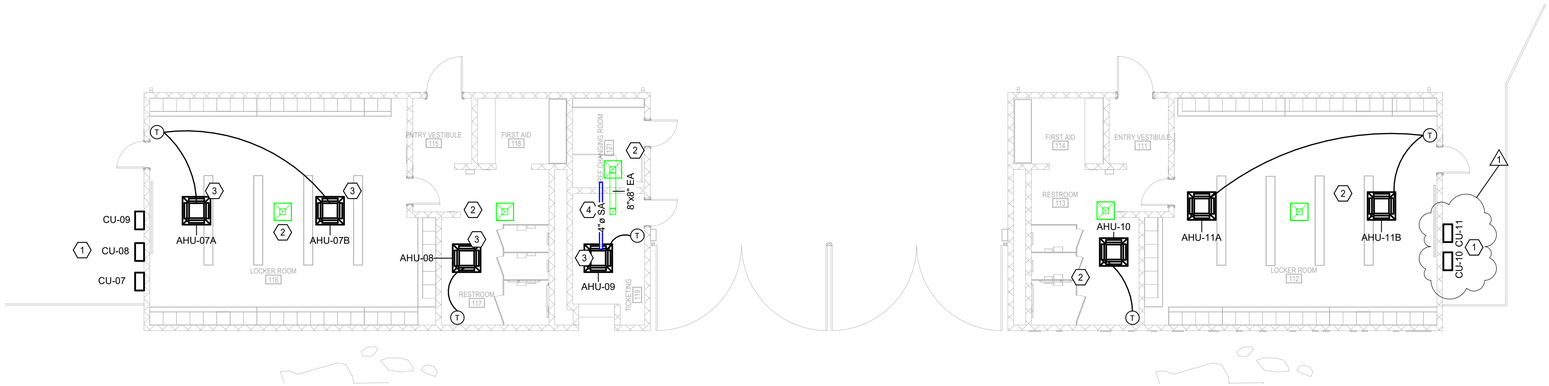
	Addendum No. 2	1/22/2026

SECTIONS & DETAILS

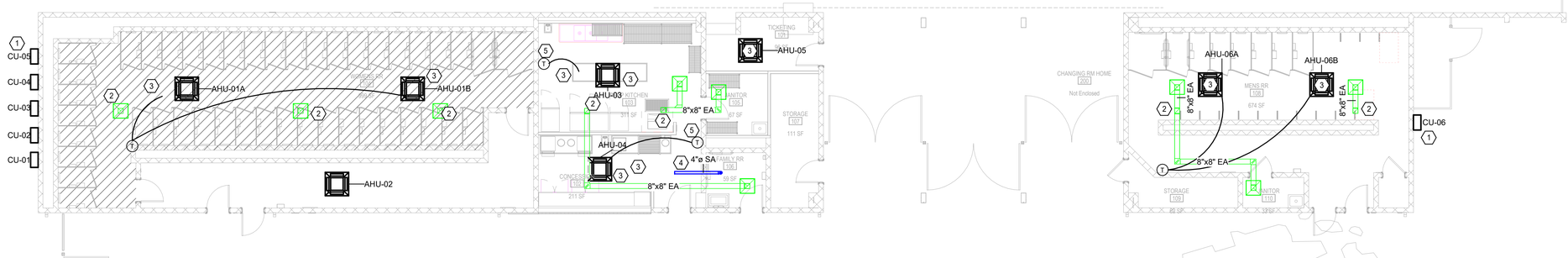
S200

100% Construction Set



MECHANICAL - SOUTH BUILDING 1

1/8" = 1'-0"



MECHANICAL - NORTH BUILDING 2

1/8" = 1'-0"

GENERAL NOTES

1. ALL CU LOCATIONS TO BE COORDINATED WITH ARCHITECT. CU'S TO BE LOCATED 1' - 0" ABOVE BFE.
2. ALL AHU LOCATIONS TO BE COORDINATED WITH ARCHITECT. AHU'S IN AREAS WITHOUT CEILINGS SHALL BE SUSPENDED FROM STRUCTURE ABOVE.
3. ALL EF SHALL BE LOCATED ON ROOF. FAN TO BE CONTROLLED BY SWITCH ON WALL.

SPECIFIC NOTES

1. CONDENSING UNIT TO BE MOUNTED ON WALL.
2. PROVIDE 24X24 FROM FAN ON ROOF DOWN TO GRILLE IN ROOM.
3. INDOOR CEILING CASSETTE TO BE MOUNTED TIGHT TO STRUCTURE ABOVE.
4. PROVIDE 4" SUPPLY AIR TAP TO CEILING GRILLE AS SHOWN.
5. CONNECT TWO INDOOR UNITS TO COMMON THERMOSTAT AS INDICATED.

WILLIAMS ARCHITECTS + multistudio

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Revisions

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STATE OF LOUISIANA
GENE YKH
License No. 28523
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
11/6/25

YKH Consulting
YENARI • KELLY • HADAWAY
Mechanical • Electrical • Plumbing
3500 N. Causeway Blvd. Suite 1500, Metairie, LA. 70002
ykmconsulting.com 504.264.5111

Job No.:	2405201	Designed By:	RLL
Drawn By:	MJL	Checked By:	GY

MECHANICAL - ENLARGED

M401

100% Construction Set

SHEET REFERENCE NOTES

1 CHARGEPOINT CT4000 LEVEL 2 DUAL PORT ELECTRIC VEHICLE CHARGING STATION. BOLLARD TYPE WITH 32A SHARED POWER FED FROM (1) 40A NON-GFCI CIRCUIT. FEED EACH WITH 2-#6CU,1-#8G., IN A 1" CONDUIT.

2 MONUMENTAL SIGNAGE. PROVIDE 277V, 30A, NEMA 3R, DISCONNECT FUSED AT 20A. CIRCUIT TO BE CONTROLLED VIA TIMECLOCK WITH PHOTOCELL OVERRIDE.

3 DIRECTIONAL BORE UNDER EXISTING PARKING LOT WHERE POSSIBLE TO MAINTAIN EXISTING CONDITIONS.

SHEET GENERAL NOTES

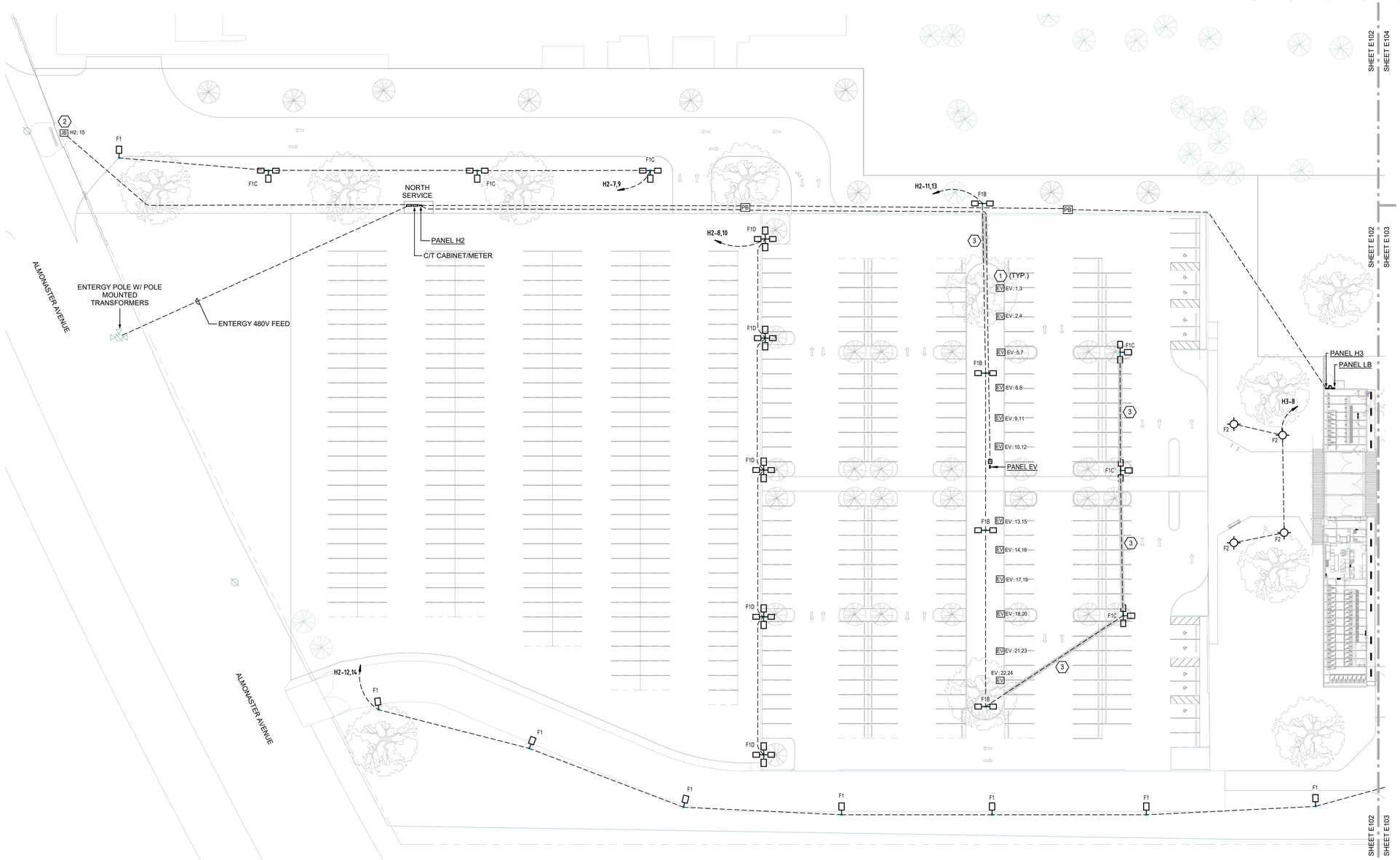
A. ALL EXTERIOR SITE LIGHTING EXCEPT SPORTS LIGHTING POLES TO BE CONTROLLED VIA TIME CLOCK WITH PHOTOCELL OVERRIDE.

B. SEE PANEL SCHEDULE FOR FEEDER SIZES.

C. CONTRACTOR TO ROUTE CONDUIT IN A MANNER THAT IS THE LEAST DAMAGING TO EXISTING PARKING LOT.

D. CIRCUIT SERVING 'F2' FIXTURES TO BE POWERED THROUGH EMERGENCY LIGHTING INVERTER.

E. COORDINATE WITH ARCHITECT IF ADDITIONAL SECURITY CAMERA CONDUIT IS REQUIRED AT PARKING LOT POLE LOCATIONS AND ROUTE BACK TO TICKET BOOTH IF REQUIRED.



1 SITE PLAN ENLARGEMENT - NORTH
E102 SCALE: 1/32" = 1'-0"

YKH Consulting
YENARI • KELLY • HADAWAY
Mechanical • Electrical • Plumbing
3500 N. Causeway Blvd. Suite 1500, Metairie, LA. 70002
ykmconsulting.com 504.264.5111

Job No.:	2405201	Designed By:	MR
Drawn By:	MR	Checked By:	JL

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816.931.6655
multi.studio

structural engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

civil engineer:
Marais Consultants
2018 Jena Street
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504.350.2644
maraisconsultants.com

landscape architect:
Design Jones
201 East Abram Street
Suite 140
Arlington, Texas 76010
216.965.5929
designjonesllc.com

mep engineer:
YKH Consulting
3701 Hessmer Ave
Metairie, LA 70002
504.264.5111
ykhconsulting.com

food service:
Moynan Consulting
101 Kramer Ct
Mandeville, LA 70471
985.874.5710
moynanconsulting.com

Issue Date: November 06, 2025

Revisions

NUMBER	DESCRIPTION	DATE
1	Addendum 2	1/22/26

ELECTRICAL SITE PLAN ENLARGED - NORTH

E102

100% Construction Set

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	F1-F4	80'	-	80'	TLC-LED-1500	7	7	0
				28'	TLC-BT-575	2	2	0
4	Totals					36	36	0

SHEET REFERENCE NOTES

1 PROVIDE CONDUIT AND WIRING TO PRESS BOX PANEL PROVIDED BY OTHERS.

2 PROVIDE ALL REQUIRED CIRCUITS AND CONTROLS FOR FIELD LIGHTING AND SPECTATOR LIGHTING. SPECTATOR LIGHTING TO BE POWERED BY EMERGENCY LIGHTING INVERTER. COORDINATE INSTALLATION AND CONTROLS REQUIREMENTS WITH SPORTS LIGHTING VENDOR.

3 PROVIDE CONDUITS REQUIRED FOR LIGHTING FEEDERS AND ADDITIONAL CONDUIT FOR SECURITY CAMERA.

1 4 PRESSBOX PACKAGE TO BE SUPPLIED BY BLEACHER MANUFACTURER. CONTRACTOR TO SUPPLY DATA/AV RACK AND ROUGH-INS FOR SECURITY CAMERA AND (4) SPEAKER LOCATIONS MOUNTED TO FRONT OF PRESSBOX. CONTRACTOR TO PROVIDE ALL WIRING NECESSARY FOR PA SYSTEM, WITH SPEAKERS, SUBWOOFER, AND AMPLIFIER MEETING BASIS OF DESIGN OF SIMILAR CALLED OUT ON A101.3A. AMPLIFIER TO BE LOCATED IN DATA/AV RACK IN PRESSBOX ROOM 123. INPUT DEVICES SUCH AS MICROPHONES TO BE PROVIDED BY OTHER.

5 POWER AND DATA FOR SCOREBOARD. CONFIRM SELECTED SCOREBOARD/VIDEOBOARD POWER AND DATA REQUIREMENTS PRIOR TO ROUGH-IN.

6 PROVIDE 2" CONDUIT WITH PULLSTRING FROM COMMUNICATIONS BACKBOARD IN TICKET BOOTH FOR PRESSBOX COMMUNICATIONS.

7 PROVIDE 2 1/2" CONDUIT WITH PULLSTRING FROM PANEL 'H1' FOR TRACK AND FIELD ELECTRICAL EQUIPMENT.

8 POWERED THROUGH 6000VA EMERGENCY INVERTER.

SHEET GENERAL NOTES

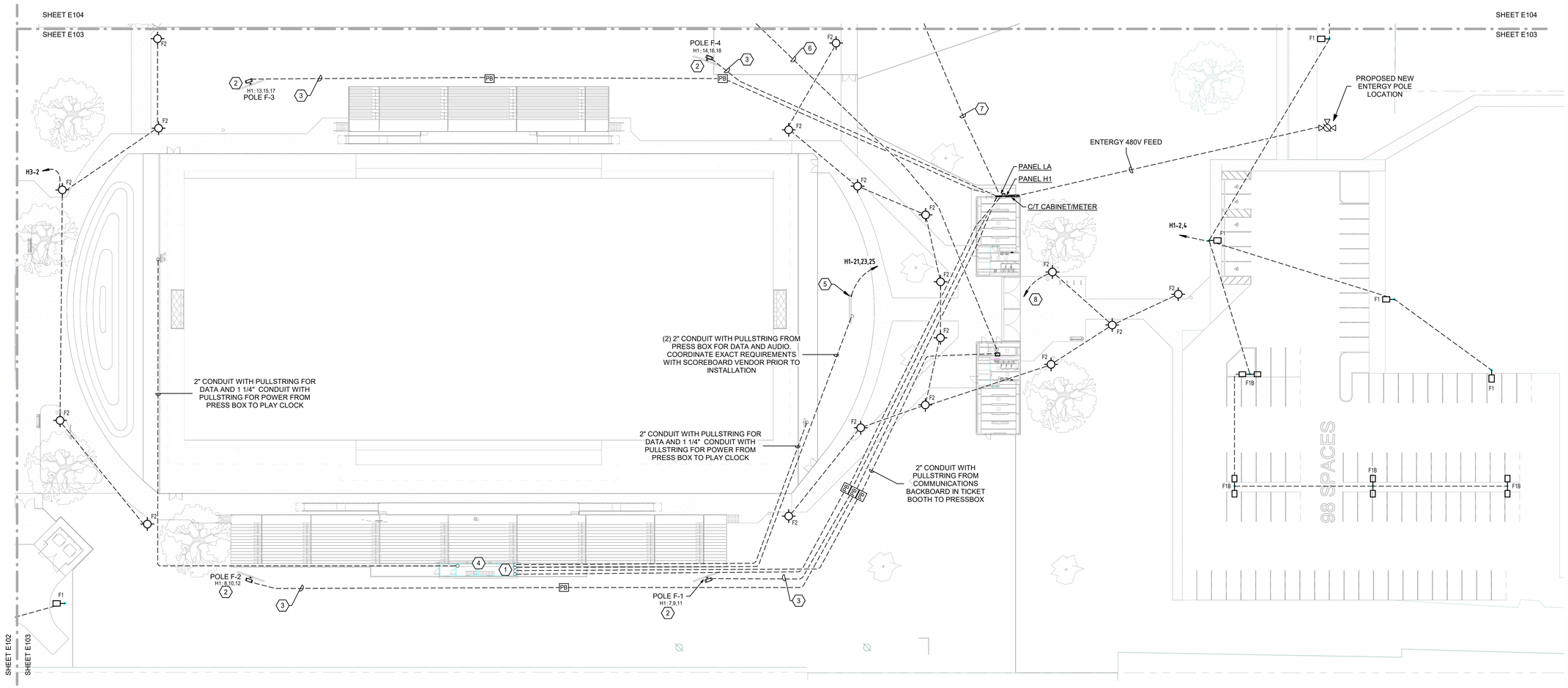
A. ALL EXTERIOR SITE LIGHTING EXCEPT SPORTS LIGHTING POLES TO BE CONTROLLED VIA TIME CLOCK WITH PHOTOCELL OVERRIDE.

B. SEE PANEL SCHEDULES FOR FEEDER SIZES.

C. REFER TO SELECTED SPORTS LIGHTING MANUFACTURERS CUTSHEETS/DRAWINGS FOR FINAL FIXTURE QUANTITIES, CATALOG NUMBERS, ELECTRICAL LOADS, AND CONTROLS PRIOR TO PURCHASES/ROUGH-IN.

D. COORDINATE ALL REQUIRED CONDUIT RUNS FOR AV AND DATA SERVING PLAY CLOCK AND SCOREBOARD/VIDEOBOARD WITH VENDOR PRIOR TO INSTALLATION.

E. CIRCUIT SERVING 'F2' FIXTURES TO BE POWERED THROUGH EMERGENCY LIGHTING INVERTER.



1 SITE PLAN ENLARGEMENT - SOUTH WEST

E103 SCALE: 1/32" = 1'-0"

WILLIAMS ARCHITECTS + multistudio

MULTI-SPORT VENUE IN EASTERN NEW ORLEANS AND LOWER NINTH WARD
OPSB Project Number: ITB 26-FAC-0053

4290 Almonaster Avenue
New Orleans, LA 70126

owner:
Orleans Parish School Board
2401 Westbend Parkway
New Orleans, LA 70114
504.304.5612
nolapublicschools.com

Project Number: WA-523012/MS-1323-1080

architect of record:
Williams Architects
824 Baronne St.
New Orleans, LA 70113
504.566.0888
williamsarchitects.com

architect:
Multistudio
4200 Pennsylvania
Kansas City, MO 64111
816.931.6655
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structural engineer:
Marais Consultants
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Issue Date: November 06, 2025

Revisions

NUMBER	DESCRIPTION	DATE
	Addendum 2	1/22/26

YKH Consulting
YENARI • KELLY • HADAWAY
Mechanical • Electrical • Plumbing
3500 N. Causeway Blvd. Suite 1500, Metairie, LA. 70002
ykmconsulting.com 504.264.5111

Job No.:	2405201	Designed By:	MR
Drawn By:	MR	Checked By:	JL

ELECTRICAL SITE PLAN ENLARGED - SOUTH WEST

E103

100% Construction Set

SHEET GENERAL NOTES

A. PROVIDE A 125V, 20A RATED RECEPTACLE WITHIN 25' OF ALL HVAC EQUIPMENT AT SAME LEVEL AS PER NEC.

B. ALL BUILDING LIGHTING TO BE 277V.

C. ALL EXTERIOR LIGHTING TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL OVERRIDE.

D. ALL INTERIOR LIGHTING IN NORTH SIDE BUILDING TO BE CIRCUITED TO H3:6.

E. CONTRACTOR TO CONFIRM MANUFACTURERS RECOMMENDED CIRCUIT BREAKER SIZES FOR HVAC PRIOR TO PURCHASE.

F. ALL EXTERIOR LIGHTING ON NORTH SIDE BUILDING WITH THE EXCEPTION OF FIXTURE F4, TO BE CIRCUITED TO H3:4.

G. ALL EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH AN EMERGENCY LIGHTING INVERTER.

SHEET REFERENCE NOTES

1 PROVIDE 120V FOR LOW VOLTAGE CONNECTION TO AUTO FLUSH VALVES AND AUTO FAUCETS.

2 PROVIDE 30A, 208V RATED, DOUBLE POLE HEAVY DUTY SWITCH AS DISCONNECTING MEANS FOR INSTANTANEOUS WATER HEATER LOCATED UNDER SINK.

3 PROVIDE DEDICATED 120V, 20A CIRCUIT FOR HAND DRYER.

4 RGB TAPE LIGHTING (F5) IN ANGLED ALUMINUM CHANNEL MOUNTED TO SIDE OF BEAMS FOR LIGHTING UNDERSIDE OF CANOPY. INSTALL RGB CONTROLLER IN TICKET BOOTH.

5 PROVIDE 277V LIGHTING CIRCUIT FOR BACK LIT SIGNAGE CONTROLLED BY TIMECLOCK.

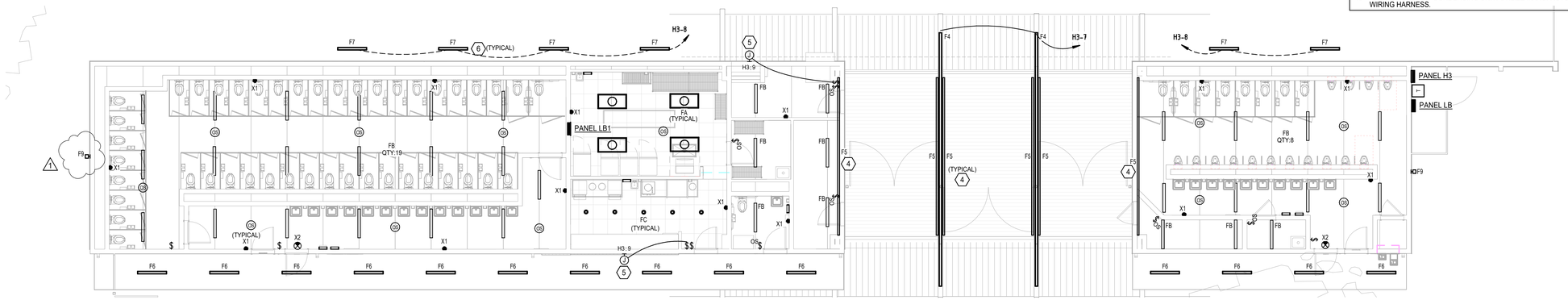
6 LINEAR GROUND MOUNTED LANDSCAPE LIGHTING FOR WALL WASHING.

7 PROVIDE 4" CONDUIT WITH PULLSTRING FROM TELECOMMUNICATIONS TERMINATION POINT. COORDINATE EXACT LOCATION WITH PROVIDER.

8 PROVIDE 1" SLEEVE THROUGH WALL TO WALL MOUNTED JUNCTION BOX FOR CAMERA.

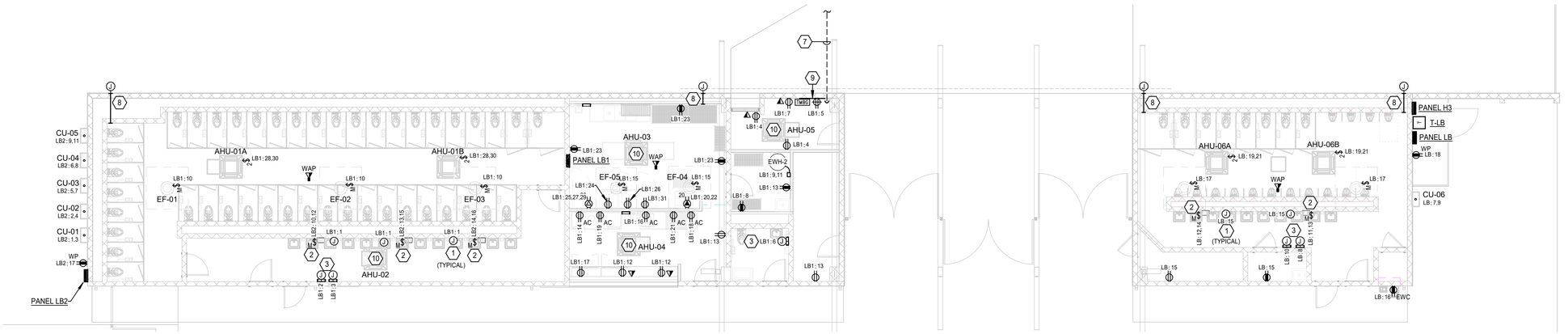
9 TELECOMMUNICATIONS BACKBOARD.

10 AHU POWERED BY CONDENSING UNIT. UTILIZE MANUFACTURERS SUGGESTED WIRING HARNESS.



1 NORTH ENTRANCE - LIGHTING PLAN

E200 SCALE: 1/8" = 1'-0"



2 NORTH ENTRANCE - POWER PLAN

E200 SCALE: 1/8" = 1'-0"

WILLIAMS ARCHITECTS + multistudio

MULTI-SPORT VENUE IN EASTERN NEW ORLEANS AND LOWER NINTH WARD
OPSB Project Number: ITB 26-FAC-0053

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owner:
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Issue Date: November 06, 2025

Revisions

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	Addendum 2	1/22/26

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YENARI • KELLY • HADAWAY
Mechanical • Electrical • Plumbing
3500 N. Causeway Blvd. Suite 1500, Metairie, LA. 70002
ykmconsulting.com 504.264.5111

Job No.:	2405201	Designed By:	MR
Drawn By:	MR	Checked By:	JL

NORTH ENTRANCE ELECTRICAL ENLARGEMENTS

E200

100% Construction Set

SHEET GENERAL NOTES

A. PROVIDE A 125V, 20A RATED RECEPTACLE WITHIN 25' OF ALL HVAC EQUIPMENT AT SAME LEVEL AS PER NEC.

B. MAINTAIN MINIMUM 36" CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT.

C. ALL BUILDING LIGHTING TO BE 277V.

D. ALL INTERIOR LIGHTING TO BE CIRCUITED TO H1:19.

E. ALL EXTERIOR LIGHTING TO BE CIRCUITED TO 6000VA EMERGENCY LIGHTING INVERTER. LIGHTING TO BE CONTROLLED USING LIGHTING CONTACTOR WITH PHOTOCELL OVERRIDE.

SHEET REFERENCE NOTES

1 PROVIDE 120V FOR LOW VOLTAGE CONNECTION TO AUTO FLUSH VALVES AND AUTO FAUCETS.

2 PROVIDE 30A, 208V RATED, DOUBLE POLE HEAVY DUTY SWITCH AS DISCONNECTING MEANS FOR INSTANTANEOUS WATER HEATER LOCATED UNDER SINK.

3 PROVIDE DEDICATED 120V, 20A CIRCUIT FOR HAND DRYER.

4 PROVIDE 277V LIGHTING CIRCUIT FOR BACK LIT SIGNAGE CONTROLLED BY TIMECLOCK.

5 LINEAR GROUND MOUNTED LANDSCAPE LIGHTING FOR WALL WASHING.

6 PROVIDE 4" CONDUIT WITH PULLSTRING FROM TELECOMMUNICATIONS TERMINATION POINT. COORDINATE EXACT LOCATION WITH PROVIDER.

7 PROVIDE 2" CONDUIT WITH PULLSTRING FROM COMMUNICATIONS BACKBOARD IN TICKET BOOTH FOR PRESSBOX COMMUNICATIONS.

8 PROVIDE 2" CONDUIT WITH PULLSTRING FROM TICKET BOOTH TO FOOTBALL FIELD PRESSBOX.

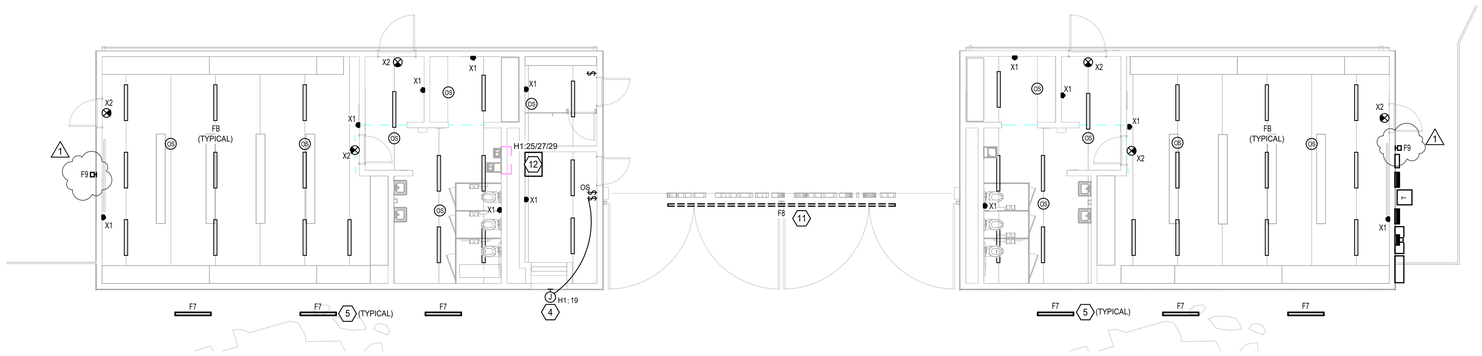
9 PROVIDE 1" SLEEVE THROUGH WALL TO WALL MOUNTED JUNCTION BOX FOR CAMERA.

10 TELECOMMUNICATIONS BACKBOARD.

11 LED LIGHTING TO BE MOUNTED TO SIGNAGE STRUCTURE TO WALL WASH FACE OF SIGNAGE UTILIZING ANGLED CHANNEL.

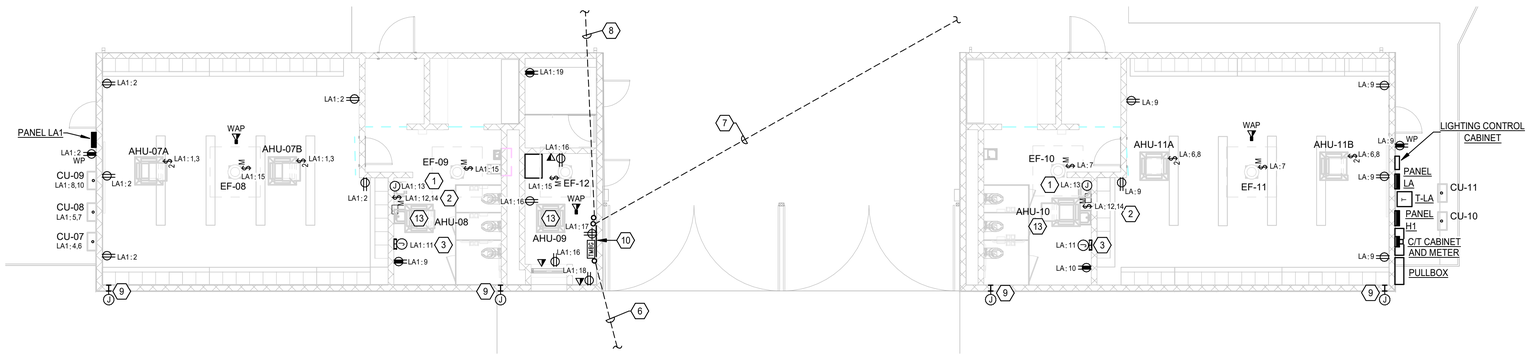
12 ISOLITE E3MAC-6000-3P-LC-IG-OG 6000VA, 277/480V MODULAR AC INVERTER.

13 AHU POWERED BY CONDENSING UNIT. UTILIZE MANUFACTURERS SUGGESTED WIRING HARNESS.



1 SOUTH ENTRANCE - LIGHTING PLAN

E201 SCALE: 1/8" = 1'-0"



2 SOUTH ENTRANCE - POWER PLAN

E201 SCALE: 1/8" = 1'-0"

WILLIAMS ARCHITECTS + multistudio

MULTI-SPORT VENUE IN EASTERN NEW ORLEANS AND LOWER NINTH WARD

OPSB Project Number: ITB 26-FAC-0053

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985.874.5710
moynanconsulting.com

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Revisions

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	Addendum 2	1/22/26

STATE OF LOUISIANA
CHAD M. HADAWAY
License No. 33606
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
11/6/25

YKH Consulting
YENARI • KELLY • HADAWAY
Mechanical • Electrical • Plumbing
3500 N. Causeway Blvd. Suite 1500, Metairie, LA. 70002
ykmconsulting.com 504.264.5111

Job No.:	2405201	Designed By:	MR
Drawn By:	MR	Checked By:	JL

SOUTH ENTRANCE ELECTRICAL ENLARGEMENTS

E201

100% Construction Set

PLUMBING GENERAL NOTES

1. ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE - 2021, INTERNATIONAL PLUMBING CODE - 2021, NATIONAL ELECTRICAL CODE - 2021, NFPA 99 - 2017, AND ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

2. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE DERIVED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. CONTRACTOR SHALL VERIFY SERVICES, LOCATIONS, TYPE AND SIZE PRIOR TO ANY BIDDING, PRICING OR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INVOLVING DEMOLITION TIE-INS AND ROUTING CONFLICTS WITH EXISTING CONDITIONS. ANY DEVIATIONS IMPACTING WORK SHOWN ON THESE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT FOR COORDINATION PRIOR TO BIDDING AND PRICING.

3. FIXTURES, EQUIPMENT, CONNECTIONS AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.

4. FURNISH AND INSTALL SHOCK ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO FLUSH VALVES, QUICK CLOSING VALVES, AND AT ALL HOT AND COLD WATER CONNECTIONS TO FIXTURES.

5. PROVIDE ISOLATION BALL VALVES AT BRANCH LINES CONNECTING TO MAINS SUCH THAT EACH BRANCH LINE MAY BE INDIVIDUALLY ISOLATED. TAG ALL VALVES IN ACCORDANCE WITH CAMPUS STANDARDS.

6. PROVIDE CLEANOUTS AT ALL 90° SANITARY SEWER ELBOWS AND IN ACCORDANCE WITH APPLICABLE CODES.

7. PROVIDE INSULATION KIT FOR SUPPLIES, DRAIN PIPING AND TRAP FOR ALL HANDICAP ACCESSIBLE LAVATORIES AND SINKS. INSULATION KIT SHALL BE EQUAL TO TRUEBRO MODEL 103 (WHITE). WHERE PROTECTIVE SKIRT UNDER FIXTURES IS PROVIDED, INSULATION OF PIPING IS NOT REQUIRED.

8. ORIENT FLUSH VALVE HANDLES ASSOCIATED WITH BARRIER-FREE WATER CLOSETS ON WIDE SIDE OF STALL TO COMPLY WITH ADA REQUIREMENTS.

9. ALL SANITARY SEWER, STORM DRAIN, AND GREASE WASTE PIPING SHOWN SHALL BE RUN BELOW FLOOR, UNLESS NOTED OTHERWISE.

10. ALL CW, HW, HWR, NATURAL GAS, FIRE PROTECTION, AND VENT PIPING SHOWN SHALL BE RUN ABOVE CEILING, UNLESS NOTED OTHERWISE.

11. CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF PLUMBING FIXTURES AND/OR EQUIPMENT THAT ARE TO BE REMOVED TO THE OWNER. ALL ITEMS THAT THE OWNER WISHES TO RETAIN SHALL BE PLACED IN STORAGE AND THE REMAINDER SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.

12. PENETRATIONS THROUGH PARTITIONS AND FLOORS SHALL BE SLEEVED AND SEALED TO MAINTAIN INTEGRITY OF PARTITION AND FLOOR RATING.

13. CONTRACTOR SHALL REROUTE ALL ACTIVE PLUMBING SERVICES IN CHASES OR WALLS TO BE REMOVED, TO NEW CHASE AREAS OR NEW WALLS AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BIDDING AND PRICING.

14. CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS, FURNISH CUTOFF VALVES, P-TRAPS, P.R.V'S, BACKFLOW PREVENTERS, STRAINERS, STEAM TRAPS AND PIPING AS REQUIRED PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ANY CONFLICTS BETWEEN THESE DOCUMENTS AND EQUIPMENT CUT SHEETS PRIOR TO CLOSING IN WALLS AND CEILINGS.

15. COORDINATE WATER, WASTE, VENT, AND STORM WATER PIPING WITH OTHER TRADES TO AVOID SPACING OR ROUTING PROBLEMS.

16. PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED A MINIMUM OF 10'-0" CLEAR OF A/C OUTSIDE AIR INTAKES, CLINICAL AIR COMPRESSOR INTAKES, OR WINDOWS IN STRUCTURE.

17. DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES PRIOR TO BIDDING AND PRICING.

18. CONTRACTOR SHALL COORDINATE WITH PHASING REQUIREMENTS PROVIDED BY ARCHITECT/OWNER. TEMPORARY SERVICES SHALL BE PROVIDED FOR ANY AREA SERVED BY ANOTHER AREA IF DEMOLITION OF EXISTING SERVICE IS NECESSARY. COORDINATE ALL PLUMBING WORK WITH PHASING PLAN AS REQUIRED TO COMPLETE WORK PRIOR TO BIDDING AND PRICING.

19. EXISTING TIE-IN POINTS ARE APPROXIMATE, FIELD VERIFY ACTUAL TIE-IN POINTS AND PROVIDE PIPING RUNS AS REQUIRED FOR TIE-INS PRIOR TO BIDDING AND PRICING.

20. IN AREAS WHERE CEILINGS ARE BEING RAISED CONTRACTOR SHALL REMOVE AND REROUTE EXISTING PLUMBING SYSTEMS AS REQUIRED TO AVOID CONFLICTS WITH THE NEW CEILING HEIGHTS AND NEW CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SYSTEMS WHETHER INDICATED ON THE PLANS OR NOT.

21. CONTRACTOR SHALL COORDINATE THE TEMPORARY DISRUPTION OF PLUMBING SERVICE IN THE FACILITY FOR THE CONVENIENCE OF THE OWNER. WORK SHALL BE DONE AT A TIME AND DURATION APPROVED BY THE OWNER.

22. ALL SYSTEMS SERVING RENOVATED AREAS SHALL BE KEPT ACTIVE UNTIL NEW AND REROUTED SYSTEMS ARE READY FOR TIE-IN.

23. CONTRACTOR SHALL RE-ROUTE ALL ACTIVE PIPING PASSING THROUGH AREAS OF DEMOLITION TO NEAREST WALL OR CHASE AND REMOVE ALL PIPING THAT IS INACTIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CLASSIFYING ALL PIPING IN SPACE. OWNER WILL ASSIST IF CONTRACTOR IS UNABLE TO DETERMINE FUNCTION OF SYSTEM.

24. CONTRACTOR SHALL REMOVE ALL MEDICAL GAS PIPING, OUTLETS, VALVE BOXES AND ALARMS FROM WALLS THAT ARE BEING DEMISED. REMOVE PIPING BACK TO LOCKABLE VALVE AND CAP. REMOVE ALL MEDICAL GAS EQUIPMENT THAT IS IN WALLS THAT ARE BEING DEMISED. CAP ALL PIPING ABOVE CEILING. COORDINATE ALL SHUTDOWNS WITH OWNER AND PERFORM SHUTDOWNS AT A TIME AND DURATION ALLOWED BY THE OWNER. ALL SYSTEMS MUST BE RECERTIFIED AFTER ANY MODIFICATIONS.

25. NON PRE-FABRICATED SHOWERS LOCATED ABOVE SLAB-ON-GRADE SHALL HAVE WATERPROOFING MEMBRANES INSTALLED PER MANUFACTURERS RECOMMENDATIONS. PLUMBING CONTRACTOR SHALL CLOSELY COORDINATE WITH GENERAL CONTRACTOR TO PREVENT CONFLICT BETWEEN WATERPROOFING MEMBRANE INSTILLATION REQUIREMENTS AND STRUCTURAL INSTILLATION METHODS.

26. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS SHOWING COORDINATION OF ALL PIPING WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO START OF FABRICATION OF PIPING AND DUCTWORK.

27. DRAWINGS AND SPECIFICATIONS; IN CASE OF INCONSISTENCIES IN THE DRAWINGS OR THE SPECIFICATIONS OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE ARCHITECT WILL DETERMINE WHICH REQUIREMENT WILL BE THE MOST CONSISTENT WITH DESIGN INTENT AND THE CONTRACTOR SHALL COMPLY WITH THE ARCHITECT'S DETERMINATION. IN THE EVENT OF INCONSISTENCIES AMONG THE CONTRACT DOCUMENTS NOT RESOLVED BY THE SPECIFICATIONS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES AND ORDINANCES, THE CONTRACTOR SHALL (I) PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR (II) COMPLY WITH THE MORE STRINGENT REQUIREMENT IN ACCORDANCE WITH THE ARCHITECT'S REASONABLE INTERPRETATION OF THE CONTRACT DOCUMENTS.

28. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER CONFLICTING REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.

APPLICABLE CODES, STANDARDS, AND GUIDELINES

1. INTERNATIONAL BUILDING CODE - 2021 EDITION
2. INTERNATIONAL MECHANICAL CODE - 2021 EDITION
3. INTERNATIONAL FUEL GAS CODE - 2021 EDITION
4. INTERNATIONAL PLUMBING CODE - 2021 EDITION
5.
6. NFPA 25 - STANDARD FOR INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS -20118. NFPA 70 - NATIONAL ELECTRIC CODE - 2015
7. NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE - 2012
8. NFPA 101 LIFE SAFETY CODE – 2015
9. NFPA 90A - STANDARD FOR INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2012
10. ANSI/ASHRAE 90.1 – 2021 EDITION
11. ASME BOILER & PRESSURE VESSEL CODE - 2013 EDITION
12. ADA/ABA – 2010 EDITION
13. INTERNATIONAL ENERGY CONSERVATION CODE - 2021

PLUMBING LEGEND

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- NEW PIPING
- CW — DOMESTIC COLD WATER PIPING
- HW — DOMESTIC HOT WATER PIPING
- HW — DOMESTIC HOT WATER PIPING AT INDICATED SERVICE TEMPERATURE
- HWR — DOMESTIC HOT WATER RECIRCULATION
- SD — DRAIN PIPING
- W — SANITARY SEWER
- V — VENT
- GW — GREASE WASTE
- SD — STORM DRAIN PIPING
- SD — STORM OVERFLOW DRAINAGE PIPING
- NG — NATURAL GAS PIPING
- TW — TEMPERED WATER
- DETAIL NO. / # / X### / SHEET ON WHICH DETAIL IS LOCATED
- # — SPECIFIC NOTE DESIGNATION
- POINT OF DISCONNECT
- POINT OF CONNECTION, NEW TO EXISTING
- EXISTING EQUIPMENT TO REMAIN
- EXISTING EQUIPMENT TO BE DEMOLISHED
- XX / 1 — NEW EQUIPMENT WITH IDENTIFICATION

- ECO — EXTERIOR CLEANOUT (SEE SCHEDULE SPECIFICATIONS)
- WCO — WALL CLEANOUT
- ELBOW UP
- ELBOW DOWN
- BRANCH PIPE CONNECTION
- TEE-OUTLET DOWN
- TEE-OUTLET UP
- PUMP
- BACKFLOW PREVENTER
- ELBOW UP
- ELBOW DOWN
- BRANCH PIPE CONNECTION
- TEE-OUTLET DOWN
- TEE-OUTLET UP
- PIPE REDUCER
- GATE VALVE
- GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CONTROL VALVE, 2 WAY
- CONTROL VALVE, 3 WAY
- CHECK VALVE
- STRAINER
- STRAINER AND BLOWDOWN VALVE
- PLUG COCK/ BALANCING VALVE/ GAS COCK
- BALANCING VALVE
- PRESSURE REDUCING VALVE
- GAS PRESSURE REGULATOR
- UNION
- FLEXIBLE CONNECTOR
- PIPE CAP
- GAUGE AND GAUGE COCK
- THERMOMETER
- VALVE WITH BLIND FLANGE
- STEAM TRAP
- THERMOSTATIC EXPANSION VALVE

PLUMBING ABBREVIATIONS

AD	AREA DRAIN	KW	KILOWATT
AP	ACCESS PANEL	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AFF	ABOVE FINISHED FLOOR	MECH.	MECHANICAL
BEH	BEHIND	OD	OVERFLOW DRAIN
BOP	BOTTOM OF PIPE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM	OSD	OPEN SITE DRAIN
BTUH	BRITISH THERMAL UNITS PER HOUR	PD	PRESSURE DROP
CONT.	CONTINUATION	PRV	PRESSURE REDUCING VALVE
COTG	CLEAN OUT TO GRADE	PSIG	POUNDS PER SQUARE INCH GAGE
COYB	CLEANOUT IN YARD BOX	RD	ROOF DRAIN
CW	DOMESTIC COLD WATER	RPM	REVOLUTIONS PER MINUTE
ECO	EXTERIOR CLEANOUT	SAN	SANITARY SEWER
ES/EW	EMERGENCY SHOWER / EYEWASH	SD	STORM DRAIN
EWC	ELECTRIC WATER COOLER	TP	TRAP PRIMER
EWH	ELECTRIC WATER HEATER	TW	TEMPERED WATER
F	FAHRENHEIT	TYP.	TYPICAL
FCO	FLOOR CLEANOUT	UNO	UNLESS NOTED OTHERWISE
FD	FLOOR DRAIN	VFD	VARIABLE FREQUENCY DRIVE
FMS	FACILITY MANAGEMENT SYSTEM	WB	WE BULB
FPWH	FREEZE PROOF WALL HYDRANT	WCO	WALL CLEANOUT
FT	FEET	W.G.	WATER GAGE
GPR	GAS PRESSURE REGULATOR	WH	WALL HYDRANT
HB	HOSE BIB	WHA	WATER HAMMER ARRESTOR
HP	HORSEPOWER	WPD	WATER PRESSURE DROP

PLUMBING DRAWING INDEX

SHEET NO.	SHEET NAME
P000	PLUMBING LEGEND & NOTES
P001	PLUMBING SCHEDULE
P100	PLUMBING SITE PLAN
P101A	PLUMBING SECTOR A
P101C	PLUMBING SECTOR C
P401	PLUMBING - ENLARGED
P500	SANITARY RISERS
P501	SANITARY RISERS
P502	SANITARY RISERS
P600	PLUMBING DETAILS
P601	PLUMBING DETAILS

WILLIAMS ARCHITECTS + multistudio

MULTI-SPORT VENUE IN EASTERN NEW ORLEANS AND LOWER NINTH WARD
OPSB Project Number: ITB 26-FAC-0053

4290 Almonaster Avenue
New Orleans, LA 70126

owner:
Orleans Parish School Board
2401 Westbend Parkway
New Orleans, LA 70114
504.304.5612
nolapublicschools.com

Project Number: WA-523012/MS-1323-1080

architect of record:
Williams Architects
824 Baronne St.
New Orleans, LA 70113
504.566.0888
williamsarchitects.com

architect:
Multistudio
4200 Pennsylvania
Kansas City, MO 64111
816.931.6655
multi.studio

structural engineer:
Marais Consultants
2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

civil engineer:
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2018 Jena Street
New Orleans, LA 70115
504.350.2644
maraisconsultants.com

landscape architect:
Design Jones
201 East Abram Street
Suite 140
Arlington, Texas 76010
216.965.5929
designjonesllc.com

mep engineer:
YKH Consulting
3701 Hessmer Ave
Metairie, LA 70002
504.264.5111
ykhconsulting.com

food service:
Moynan Consulting
101 Kramer Ct
Mandeville, LA 70471
985.874.5710
moynanconsulting.com

Issue Date: November 06, 2025

Revisions

NUMBER	DESCRIPTION	DATE
	Addendum 2	1/22/26

STATE OF LOUISIANA — GENE L. KELLY — License No. 29523 — PROFESSIONAL ENGINEER — MECHANICAL ENGINEERING — 11/6/25

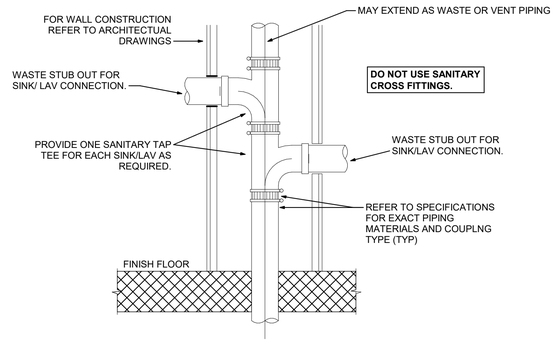
YKH Consulting
YENARI • KELLY • HADAWAY
Mechanical • Electrical • Plumbing
3500 N. Causeway Blvd. Suite 1500, Metairie, LA. 70002
ykmconsulting.com 504.264.5111

Job No.:	2405201	Designed By:	RLL
Drawn By:	MJL	Checked By:	GY

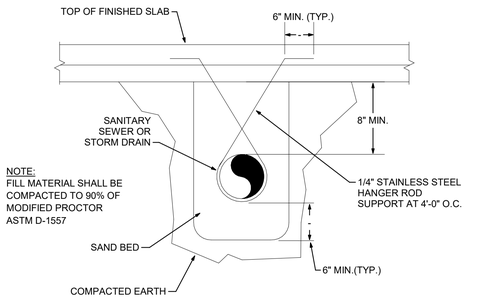
PLUMBING LEGEND & NOTES

P000

100% Construction Set

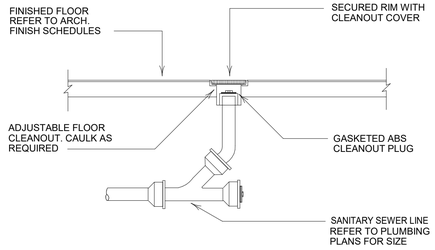


3 BACK TO BACK WASTE DETAIL

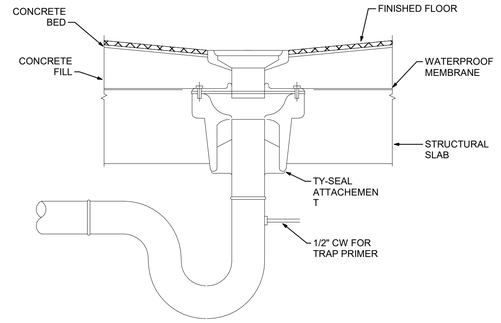


NOTE:
MAINTAIN DEPTH AS REQ'D FOR PROPER DRAINAGE AND COORDINATION W/ STRUCTURAL MEMBERS. SEE PLANS

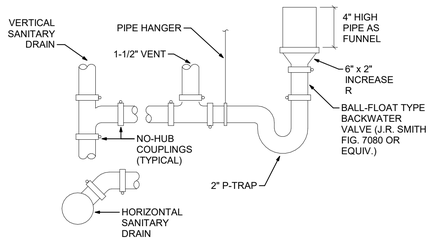
4 BELOW GRADE SEWER PIPING



5 FLOOR CLEANOUT DETAIL



6 FLOOR DRAIN INSTALLATION

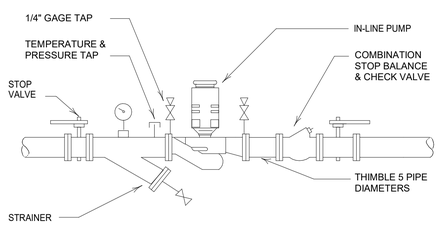


NOTE:

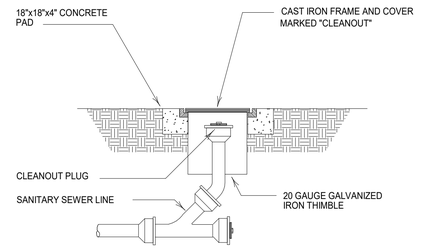
CONNECTION TO EXISTING SANITARY DRAINS MAY BE TO A VERTICAL OR HORIZONTAL DRAIN; AS SHOWN ON PLANS.

PROVIDE TRAP PRIMER FOR EACH HUB DRAIN PER DETAIL ON THIS SHEET.

7 HUB DRAIN



8 IN LINE PUMP PIPING DIAGRAM



9 OUTSIDE CLEANOUT DETAIL

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PLUMBING DETAILS

P600

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