

ADDENDUM NUMBER 1

September 1, 2026

**UWO Baseball Field Improvements
University of Wisconsin – Oshkosh**

From:

Ayres Associates.

700 Pilgrim Way, Suite 180

Green Bay, WI 54304

To:

Prospective Bidders

This Addendum is issued to modify, explain, and amend the originally issued Specifications and Drawings dated July 23, 2026 and is hereby made a part of the Contract Documents. Please acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may result in Bidder disqualification.

This Addendum consists of 3 pages and the attached documents:

Specification Sections: Volume 1 GPC Table of Contents, Volume 1 MEP Table of Contents, Volume 2 Table of Contents, 02 61 13, 11 68 33, 11 68 43, 26 05 19, 26 05 26, 32 31 13, 32 93 00.01.

Drawings: C100, C200, C300, C400, C500, C602, E001, E101.

CHANGES TO BIDDING REQUIREMENTS:

- Volume 1 GPC Table of Contents
 - Update Specification Sections Table of Contents as indicated.
- Volume 1 MEP Table of Contents
 - Update Specification Sections Table of Contents as indicated.
- Volume 2 Table of Contents
 - Update Specification Sections Table of Contents as indicated.

CHANGES TO SPECIFICATIONS:

Section 02 61 13 – Excavation, Handling, Transport, and Disposal of Contaminated Soils. Delete existing section and replace with revised section 02 61 13, attached. Revisions include:

- Page 2, line 41, remove “may collect soil samples” and replace with “is responsible for sampling and testing contaminated soils”.

Section 11 68 33 – Athletic Field Equipment. Delete existing section and replace with revised section 11 68 33, attached.

Revisions include:

- Page 2, line 20-25, add seasonal pitching mound product.
- Page 2, line 38-49, remove dugout railing product.

Section 11 68 43 – Exterior Scoreboards. Delete existing section and replace with revised section 11 68 43, attached. Revisions include:

- Page 1, added new line 13, Operations and Maintenance Data.
- Page 1, added new lines 34-41, new section Operations and Maintenance Data.
- Page 1, line 38, remove Fairplay.
- Page 1, line 49, remove base power requirement.
- Page 1, line 50, remove ‘to match existing baseball field scoreboard.’
- Page 1 and 2, remove entire SCOREBOARD section and replace with:

SCOREBOARD

A single-sided baseball scoreboard displays HOME and GUEST team score for up to 10 innings, total RUNS and HITS to 99 and ERR (errors) to nine for each team, AT BAT to 99, BALL to three, STRIKE to two, OUT to two, and PITCH SPEED to 199. Four-digit TIME clock can be displayed as either time of day or time of game.

Quantity: 1

General information

Dimensions: 9'-4" high, 36'-0" wide, 0'-8" deep

Color: Black

Construction

Alcoa aluminum alloy 5052

Scoreboard back face, and perimeter: 0.063" (1.60 mm) thick

Scoreboard top and bottom: 0.125" (3.18 mm) thick

Digits & Indicators

LED color: white

TIME, AT BAT, BALL, STRIKE, OUT, and PITCH SPEED digits: 24" high

Inning scores, RUNS, HITS, and ERR digits: 18" high

Seven bar segments per digit

PanaView LED digit technology

All digits are sealed front and back with weather-tight silicone gel.

Captions

Vinyl applied directly to scoreboard face.

TIME, AT BAT, BALL, STRIKE, OUT, and PITCH SPEED captions: 12" high

Inning numbers, RUNS, HITS, and ERR captions: 10" high

Vinyl striping applied around the AT BAT, BALL, STRIKE, and OUT digits.

Two Programmable Team Name Message Centers (TNMSc) in place of vinyl HOME and GUEST captions.

Border Striping

Vinyl striping applied around the scoreboard face.

Accessory Equipment

Arched Truss with NBacklit Letters for "donor" panel above the score board along the entire width. 5'-0" high, 36'-0" wide.

Sponsor Panel with NBacklit Letters for "Sponsor" panel below the scoreboard along the entire width. 3'-0" high, 36'-0" wide.

- Page 2, line 17-19, revise Examination paragraph as follows:

EXAMINATION

Verify that mounting structure is ready to receive scoreboard. Contractor shall verify that the existing mounting structure is structurally sufficient for the new scoreboard. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings. Electrical contractor shall purchase, install, and connect the scoreboard.

Section 26 05 19 – Low-Voltage Electrical Power Conductors and Cables. Add new specification section 26 05 19, attached.

Section 26 05 26 – Grounding and Bonding for Electrical Systems. Add new specification section 26 05 26, attached.

Section 32 31 13 – Chain Link Fencing and Gates. Delete existing section and replace with revised section 32 31 13, attached.

Revisions include:

- Page 3, line 6, add 12' line and corner posts with windscreen fence materials.

LINE AND CORNER POSTS (12 FEET WITH WINDSCREEN)	SCH 40 Pipe Steel SS 40 Pipe Steel	4.00	0.226	2.386	25,800	9.10	8
		2.875	0.160	0.878	45,000	4.64	6

Section 32 93 00.01 – Synthetic Turf Systems – Rubber-Sand Infill. Delete existing section and replace with revised section 32 93 00.01, attached. Revisions include:

- Page 7, line 23-28, revise text to the following:
 - Synthetic turf shall be loose laid across the field, stretched, and attached to the perimeter edge nailer per the detail and manufacturer's standard attachment procedures. Turf shall be of sufficient length to permit full cross- field installation. Minimize head and cross seams between the foul lines.

All turf panel seams shall be transverse to the field direction; i.e., run perpendicularly across the field. Seams shall be flat, tight, and permanent with no separation or fraying.

CHANGES TO DRAWINGS:

Sheet C100 – Existing Site Plan. Delete existing sheet and replace with revised sheet C100, attached.

- Add approximate location of home and visitor dugout padded railing installed after topographic survey was completed.

Sheet C200 – Site Demolition Plan. Delete existing sheet and replace with revised sheet C200, attached.

- Revise Keynote H & J.
- Add Keynote U.
- Revise concrete removal in front of home and visitor dugout to reflect padded railing installed after topographic survey was completed.
- Add clearing and grubbing outside of right field outfield fence.

Sheet C300 – Site Layout Plan. Delete existing sheet and replace with revised sheet C300, attached.

- Add curb nailer around existing home and visitor dugout padded railing foundations.
- Add fence guard note to keynotes.
- Revise keynote 10 from pitching mound forming system to seasonal pitching mound system.
- Revise home and visitor dugouts to include previously installed dugout railing.
- Revise keynote 21.
- Remove keynote 8.
- Remove dugout railing and integrated wall pad backstop detail coordination from legend.

Sheet C400 – Site Grading and Erosion Control Plan. Delete existing sheet and replace with revised sheet C300, attached.

- Revise existing contour and silt fence linetypes in legend.

Sheet C500 – Site Utility Plan. Delete existing sheet and replace with revised sheet C500, attached.

- Revise Pipe B size from 18" to 24".
- Revise Pipe C size from 12" to 15".

Sheet C602 – Site Construction Details. Delete existing sheet and replace with revised sheet C602, attached.

- Remove detail 3.

Sheet E001 – Electrical Title Sheet. Delete existing sheet and replace with revised sheet E001, attached.

- Revise General Notes.

Sheet E101 – Electrical Site Plan. Delete existing sheet and replace with revised sheet E101, attached.

- Revise conduit design configuration.
- Revise keynotes.

- End of Addendum No. 1 -

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- 1 Electrical Title Sheet
- 2 Electrical Site Plan

E001
E101

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1 **SECTION 02 61 13**
2 **EXCAVATION, HANDLING, TRANSPORT, AND DISPOSAL OF CONTAMINATED SOILS**
3 (Wisconsin Regulatory Version – EJCDC Format)
4
5

6 **PART 1 - GENERAL**

7 **SCOPE**

8 The section includes requirements for the excavation, handling, stockpiling, transportation, placement, and
9 disposal of soils contaminated with trichloroethylene (TCE), semi-volatile organic compounds (SVOCs), and
10 arsenic in accordance with Wisconsin Department of Natural Resources 11 (WDNR) regulations.
11

12 Work includes:

13 Compliance with NR 720 Soil Direct Contact & Migration-to-Groundwater Standards.
14

15 Site preparation, access control, and environmental protection measures.
16

17 Segregation, temporary storage, and placement of excavated materials.
18

19 Transportation and disposal at licensed Wisconsin facilities.
20

21 Backfilling, compaction, and surface restoration
22

23 Work includes the following topics:

24 **PART 1 – GENERAL**

25 Scope

26 Related Work

27 Reference Documents

28 Definitions

29 Submittals

30 Regulatory Requirements

31 Testing

32 Quality Assurance

33 Site Conditions

34 Indemnification

35 **PART 2 – PRODUCTS**

36 Materials

37 Equipment

38 **PART 3 – EXECUTION**

39 Preparation

40 Excavation

41 Dewatering

42 Material Segregating and Stockpiling

43 Loading and Transportation

44 Disposal of Contaminated Materials

45 Backfill and Restoration

46 Cleanup and Decontamination

47 Final Documentation
48

49 **RELATED WORK**

50 Applicable provisions of Division 01 govern work under this Section.
51

52 Related work specified elsewhere:

53 Section 30 05 00 - Common Work Results for all Exterior Work

54 Section 31 23 16.13 – Trenching
55

1 **REFERENCE DOCUMENTS**

2 Wisconsin Administrative Code:

3 NR 700-799 - Investigation and Remediation Requirements

4 NR 500-538 - Solid Waste, Hazardous Waste, and Beneficial Use Rules

5 NR 718 - Management of Contaminated Soil and Other Waste Materials

6 NR 720 - Soil Direct Contact & Migration-to-Groundwater Cleanup Standards 47

7
8 Federal Regulations:

9 CFR 260-279 - Resource Conservation and Recovery Act (RCRA)

10 CFR 1910.120 - OSHA HAZWOPER Standard

11 CFR 171-180 - DOT Hazardous Materials Regulations

12 WDNR guidance documents (current versions):

13 RR-980 - Management of Soil & Solid Waste

14
15 **DEFINITIONS**

16 Contaminated Soil: Soil containing metals, SVOCs, or related compounds at concentrations exceeding NR 720
17 residual contaminant levels (RCLs).

18
19 Clean Soil: Soil meeting NR 720 standards and approved by Engineer for reuse.

20
21 **SUBMITTALS**

22 Health and Safety Training Certificates: Submit one copy of health and safety training certificate or refresher
23 training certificate for each on-site worker.

24
25 Transportation permits, manifests, and weight tickets.

26
27 Manifests: Submit one copy of manifests and documentation for hauling and disposal of contaminated soils and
28 (if applicable) contaminated excavation water.

29
30 **REGULATORY REQUIREMENTS**

31 The Work to be performed is on a site which contains hazardous substances on the surface and or subsurface.

32
33 Conduct all work in accordance with Federal, state, and local statutes, regulations and ordinances regarding health
34 and safety, including but limited to, OSHA 29 CFR 1910.120 and 1926. All on-site workers shall have proper
35 health and safety training for the work to be performed and shall comply with Contractor's health and safety plan.
36 Contractor shall be liable for compliance by its employees, agents, and subcontractors with the health and safety
37 procedures for the site and shall hold Owner and A/E harmless from all claims, damages, suits, losses, and
38 expenses arising from noncompliance with health and safety procedures.

39
40 **TESTING**

41 A/E is responsible for sampling and testing contaminated soils from excavations and surrounding area for field
42 screening and laboratory analysis.

43
44 Contractor shall provide access and assist A/E in obtaining samples.

45
46 **QUALITY ASSURANCE**

47 Contractor shall have:

48 Minimum 5 years of experience with NR 700 projects.

49
50 Wisconsin-licensed hazardous waste transporter certification (if applicable).

51
52 Demonstrated familiarity with WDNR RR Program requirements.

1 All work, data, and documentation shall be suitable for WDNR audit and case closure review.

3 **SITE CONDITIONS**

4 Contractor shall review site investigation reports conducted under NR 716 and the Material Management Plan
5 submitted to WDNR.

7 Field-verify utilities, contamination extents, and access constraints.

9 Notify Engineer of any discrepancies before proceeding.

11 **INDEMNIFICATION**

12 Hauling: Contractor shall notify Owner and A/E immediately upon any release or spill of contaminated soils or
13 groundwater. Contractor shall be responsible for the cleanup of contaminated soils and groundwater released or
14 spilled during transportation and shall fully indemnify and hold Owner and A/E harmless therefore.

17 **PART 2 - PRODUCTS**

18 **MATERIALS**

19 Polyethylene Sheeting:

20 Minimum 6 mil for stockpile bases and covers. 10
21 mil or thicker where required by NR 718.

23 Dust and Vapor Suppression:

24 Water misting equipment.

26 Must meet NR 720 if imported from outside the site.

28 **EQUIPMENT**

29 Excavation machinery appropriate for constrained or urban work areas.

31 Decontamination equipment for vehicles, equipment, and personnel.

34 **PART 3 – EXECUTION**

35 **PREPARATION**

36 Prepare site for work in accordance with Section 31 05 10.

38 Install Wisconsin-compliant erosion and sediment controls (NR 216).

40 **EXCAVATION**

41 Excavate to limits shown on Drawings or as directed by Engineer in coordination with WDNR case
42 manager.

44 Do not excavate materials beyond amounts directed by A/E. Unauthorized excavation, as well as
45 remedial work, shall be at Contractor's expense

47 Comply with OSHA excavation safety requirements.

49 Minimize handling and maintain soil moisture to reduce dust.

51 Stop work if:

52 Dust exceeds visible emissions.

1 **DEWATERING**

2 Perform earthwork in a manner to prevent surface water from flowing into excavations. If surface water enters
3 excavations, it shall be considered contaminated. Promptly remove surface water from excavations using pumps,
4 sumps, and other dewatering system components and place it into Contractor-furnished storage container(s) or
5 tanker truck(s). Consult A/E for disposal of contaminated water and ensure disposal occurs in accordance with
6 applicable regulations. Handling and disposal of surface water that enters excavations will be incidental to the
7 work

8
9 Excavation is not anticipated to take place beneath the ground water table. If ground water is encountered,
10 notify A/E before proceeding further

11
12 Convey water / rainwater to prevent water from entering excavation. Provide and maintain temporary drainage
13 ditches and other diversions outside excavation limits. Do not use foundation or utility trench excavations as
14 temporary drainage ditches.

15
16 Provide filter material, trash screens, and other devices around pumps and intakes to minimize contaminated
17 sediment capture.

18
19 **MATERIAL SEGREGATION AND STOCKPILING**

20 Stockpiling of excavated materials and contaminated soil requires prior approval from the A/E.

21
22 It is preferred that excavated materials and contaminated soil be directly loaded, placed on-site, or hauled and
23 disposed of on the same day it is excavated. Unless otherwise approved by A/E, contaminated soil that is
24 stockpiled shall be placed or hauled to disposal within 7 days after being stockpiled. Post a sign complying
25 with Wis. Adm. Code, s. NR 714.07, at all contaminated soil stockpiles.

26
27 Segregate soils into:

- 28 Stripped and salvaged topsoil
- 29 Contaminated soil for reuse.
- 30 Contaminated soil for off-site disposal.

31
32 Stockpile Construction:

- 33 Place soil on a 6-mil polyethylene liner with berm containment.
- 34 Cover with a 6-mil sheeting when not actively worked.
- 35 Label piles per NR 718 requirements.
- 36 Maintain stormwater controls and prevent runoff.

37
38 **LOADING AND TRANSPORTATION**

39 Hauling of contaminated soils shall be performed by a WDNR licensed solid waste hauler. Contractor shall
40 obtain appropriate permits for transporting contaminated waste. The cost of transportation of contaminated
41 soils is incidental to the unit price item for Contaminated Soil Removal.

42
43 Vehicles transporting contaminated soils or backfill soils shall have adequate sideboards, tailgates, and covers
44 to prevent spillage. Vehicles transporting contaminated soils shall have leak-tight material boxes.

45
46 Leakage or spillage of hauled materials on to public roads and streets will not be permitted, and if unavoidably
47 done, shall be removed immediately in a manner acceptable to governmental authorities.

48
49 Load soils to avoid spillage and limit free-fall dust generation.

50
51 Cover trucks or use sealed containers per DOT and Trans 405 requirements.

52
53 Use approved haul routes and maintain transportation logs.

1 Prepare manifests for contaminated soils.

2
3 **DISPOSAL OF CONTAMINATED MATERIALS**

4 Contaminated soils designated by A/E shall be hauled to the Outagamie County Landfill. A/E will notify
5 Contractor of an alternate disposal location if necessary. A/E will notify WDNR of selected disposal site.
6 Owner is responsible for providing any soil sampling and lab tests required by disposal facility and
7 completing soil characterization profile. The contractor will provide the approved waste profile number to
8 the landfill for each load hauled to the landfill.

9
10 Contaminated excavation water shall be disposed of in accordance with WDNR regulations at an approved
11 wastewater treatment plant or other disposal facility. A/E will notify WDNR of selected disposal site. Owner
12 is responsible for providing any water sampling and lab tests required by disposal facility and paying disposal
13 fee.

14
15 Contractor shall pay for the following disposal and associated costs quoted by Outagamie County Landfill,
16 Appleton, WI:

17 Disposal: \$45.00/ton (4.0 ton min.)
18 Energy: 6.29% on June 25, 2025, which changes weekly
19 WWM: 18.90%
20 Tax: \$13.00/ton WI Gen Tax

21
22 Provide complete chain-of-custody documentation.

23
24 Provide weight tickets, landfill receipts, and certificates of disposal.

25
26 **BACKFILL AND RESTORATION**

27 Contaminated fill shall be re-used on site to construct a berm in the north overflow parking lot, with the exception
28 of fill being used as backfill in minor excavations outside of the field sub-cut.

29
30 Place clean fill or re-use exported contaminated fill in maximum 12-inch lifts.

31
32 Compact to:

33 95% Standard Proctor (structural).
34 90% (non-structural).

35
36 Restore grade, drainage, pavement, and vegetation per project specifications and local permitting
37 requirements.

38
39 **CLEANUP AND DECONTAMINATION**

40 Decontaminate tools, equipment, and vehicles exiting exclusion zones.

41
42 Collect and containerize wash water for appropriate disposal as contaminated wastewater.

43
44 Remove temporary controls after work is complete.

45
46 **FINAL DOCUMENTATION**

47 Submit a Final Remedial Action/Completion Report, including:

48 Manifests, disposal receipts, and facility certificates.
49 Daily logs
50 As-built drawings.

51
52 **END OF SECTION**

Contact: Terra Erickson, Sports Field Specialties, Inc., 312-933-9680

DUAL ANCHOR ACCESS FRAME

Manufacturers:

Sports Field Specialties, Inc. or approved equal.

Model: SHAFPRIT Schutt/Hollywood Dual Anchor Access Frame With Infill Retainer System
for Synthetic Turf Applications

Contact: Terra Erickson, Sports Field Specialties, Inc., 312-933-9680

FORMING SYSTEM

Manufacturers:

Sports Field Specialties, Inc. or approved equal.

Model: HPFS Home Plate Forming System including Home Plate

Model: BBFSB Baseball Batter's Box Forming System

Model: PMFSB Baseball Pitching Mound Forming System including Pitching Rubber

Contact: Terra Erickson, Sports Field Specialties, Inc., 312-933-9680

SEASONAL PITCHING MOUND

NCAA / NFHS / WIAA Compliant

Manufacturers:

Sports Field Specialties, Inc. or approved equal.

Model: PPBIT Seasonal baseball pitching mound, brown synthetic infill turf.

FOUL POLES

NCAA / NFHS / WIAA Compliant

Baseball Foul Pole:

30' height above finished grade

6" aluminum pipe (6.625" O.D.), plate mount

Powder coated yellow finish

Mesh wing fabricated of stamped 1/8" thick aluminum panel with double reinforced bends welded
at corners, 18"W starting 8' above finished grade

Stainless steel assembly hardware

Manufacturers:

Sports Field Specialties, Inc. or approved equal.

Model: FPW630PL

Contact: Terra Erickson, Sports Field Specialties, Inc., 312-933-9680

Footing and post structural design shall be provided by GPC stamped by a State of Wisconsin, licensed
engineer to meet 90MPH wind loads with net up.

1 **FENCE GUARD**
2 Top of fence, guard system
3 Color: Yellow, color to be approved by Owner.
4 Material: UV resistant polyethylene
5 Match existing baseball fence guard product.

6
7 **BACKSTOP WALL**
8 Conform to NCAA requirements.
9
10 Custom backstop wall system with integrated wall pad and windscreen backing. Connect existing netting
11 system to wall.
12
13 Height: 36"
14
15 Color: To be approved by agency
16
17 Manufacturers: Sportsfield Specialties, Keeper Goals, Beacon Athletics.

18
19
20 **PART THREE - EXECUTION**

21
22 **INSTALLATION**
23 In accordance with Manufacturer's recommendations.
24
25 Coat metal sleeve surfaces below grade and surfaces in contact with dissimilar materials with asphaltic
26 paint.

27
28 **CLEAN UP**
29 Dispose of excessive material to certified landfill.
30
31 All pipe, concrete, fabric and miscellaneous parts shall be removed from site.
32
33 Grade subgrade to within 1" of finish subgrade after work is completed.

34
35 **END OF SECTION**

Quantity: 1
General information
Dimensions: 9'-4" high, 36'-0" wide, 0'-8" deep
Color: Black
Construction
Alcoa aluminum alloy 5052
Scoreboard back face, and perimeter: 0.063" (1.60 mm) thick
Scoreboard top and bottom: 0.125" (3.18 mm) thick
Digits & Indicators
LED color: white
TIME, AT BAT, BALL, STRIKE, OUT, and PITCH SPEED digits: 24" high
Inning scores, RUNS, HITS, and ERR digits: 18" high
Seven bar segments per digit
PanaView LED digit technology
All digits are sealed front and back with weather-tight silicone gel.
Captions
Vinyl applied directly to scoreboard face.
TIME, AT BAT, BALL, STRIKE, OUT, and PITCH SPEED captions: 12" high
Inning numbers, RUNS, HITS, and ERR captions: 10" high
Vinyl striping applied around the AT BAT, BALL, STRIKE, and OUT digits.
Two Programmable Team Name Message Centers (TNMSc) in place of vinyl HOME and GUEST captions.
Border Striping
Vinyl striping applied around the scoreboard face.
Accessory Equipment
Arched Truss with NBacklit Letters for "donor" panel above the score board along the entire width. 5'-0" high, 36'-0" wide.
Sponsor Panel with NBacklit Letters for "Sponsor" panel below the scoreboard along the entire width. 3'-0" high, 36'-0" wide.

SCORING CONSOLE

Wireless scoring console compatible with scoreboard.
Quantity: 2

PART THREE - EXECUTION

EXAMINATION

Verify that mounting structure is ready to receive scoreboard. Contractor shall verify that the existing mounting structure is structurally sufficient for the new scoreboard. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings. Electrical contractor shall purchase, install, and connect the scoreboard.

INSTALLATION

Scoreboard control wiring including conduit will be the responsibility of the contractor assigned the scoreboard equipment.

Install scoreboards and exterior displays to beams in location detailed and in accordance with manufacturer's instructions. Verify unit is plumb and level.

INSTALLATION – CONTROL CENTER

Test connect control unit to all jacks and check for proper operation of control unit, scoreboard and all features. Verify earth ground does not exceed 15 ohms.

END OF SECTION

1
2 **SECTION 26 05 19**
3 **LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES**
4 **BASED ON DFD MASTER ELECTRICAL SPEC DATED 01/12/26**
5

6 **PART 1 - GENERAL**
7

8 **SCOPE**

9 The work under this section includes furnishing and installing required wiring and cabling systems including
10 pulling, terminating and splicing. Included are the following topics:
11

12 **PART 1 - GENERAL**

13 Scope
14 Related Work
15 References
16 Submittals
17 Project Conditions

18 **PART 2 - PRODUCTS**

19 General
20 Aboveground Wire for Exterior Work
21 Underground Wire for Exterior Work
22 Wiring Connectors

23 **PART 3 - EXECUTION**

24 General Wiring Methods
25 Wiring Installation in Raceways
26 Wiring Connections and Terminations
27 Field Quality Control
28 Wire Color
29 Branch Circuits
30 Construction Verification Items
31

32 **RELATED WORK**

33 Applicable provisions of Division 1 govern work under this Section.
34

35 Section 26 05 33 – Raceway and Boxes for Electrical Systems.

36 Section 26 05 53 – Identification for Electrical Systems.

37 Section 26 08 00 - Commissioning of Electrical.

38 Section 01 91 01 – Commissioning Process
39

40 **REFERENCES**

41 SPS 316- Electrical
42

43 **SUBMITTALS**

44 Submit product data: Provide for each cable assembly type.
45

46 Submit factory test reports: Indicate procedures and values obtained.
47

48 Submit shop drawings for modular wiring system including layout of distribution devices, branch circuit
49 conduit and cables, circuiting arrangement, and outlet devices.
50

51 Submit manufacturer's installation instructions. Indicate application conditions and limitations of use
52 stipulated by product testing agency specified under Regulatory Requirements.
53

54 **PROJECT CONDITIONS**

55 Verify that field measurements are as shown on Drawings.
56

57 Conductor sizes are based on copper.
58

59 Wire and cable routing shown on Drawings is approximate unless dimensioned. Route wire and cable as
60 required for project conditions.
61

62 Where wire and cable routing is not shown, and destination only is indicated, determine exact routing and
63 lengths required.
64

PART 2 - PRODUCTS

GENERAL

All wire shall be new, delivered to the site in unbroken cartons and shall be less than one year old out of manufacturer's stock.

All conductors shall be copper. Aluminum conductors size #1/0 and larger may be substituted for copper and used for phase and neutral conductors for transformer feeders, switchboard feeders, and panelboard feeders. All ground conductors shall be copper.

The following requirements shall be met when aluminum conductors are used:

Aluminum alloy conductors shall be compact stranded conductors of a recognized Aluminum Association 8000 Series aluminum alloy conductor material (AA-8000 series alloy).

It is the responsibility of the contractor to increase the size of the conduit, wire gutter, or enclosure, if necessary, to accommodate the aluminum conductors and meet allowable code requirements.

It is the responsibility of the contractor to increase the size of the aluminum conductor and associated termination lugs to match the ampacity of the copper conductor circuit shown on the Drawings.

The contractor shall submit a feeder schedule to the Engineer for all conductor substitutions indicating the aluminum conductor wire size and the conduit size. The contractor shall not begin the installation until written approval is granted by the Engineer.

All aluminum conductors shall terminate on a mechanical screw-type connector or mechanical compression-type connector. Connector shall be dual rated (AL7CU or AL9CU) and Listed by UL for use with aluminum and copper conductors, and sized to accept aluminum conductors of the required ampacity. When using compression-type connectors, the lugs shall be marked with wire size, die index, number and location of crimps and shall be suitably color-coded. Using a suitable stripping tool, remove insulation from the required length of the conductor. Wire brush the conductor and apply a Listed joint compound. Tighten or crimp the connection per the connector manufacturer's recommendation. Wipe off any excess joint compound.

When terminating aluminum conductors to aluminum bus, prepare a mechanical screw-type or compression-type connection. Bolts shall be anodized alloy and conform to current ANSI and ASTM chemical and mechanical property limits. Nuts shall be aluminum alloy and conform to current ANSI standards. Washers shall be flat aluminum alloy, Type A plain, standard wide series conforming to current ANSI standards. Lubricate and tighten the hardware per manufacturer's recommendations.

When terminating aluminum conductors to copper bus, prepare a mechanical screw-type or compression-type connection. Bolts shall be plated or galvanized medium carbon steel; heat treated, quenched and tempered equal to current ASTM standard or SAE grade 5. Nuts shall conform to current ANSI standards. Washers shall be steel, Type A plain, standard wide series conforming to current ANSI standards. Belleville conical spring washers shall be of hardened steel, cadmium plated or silicone bronze. Lubricate and tighten the hardware per manufacturer's recommendations.

The final tightening torque shall be recorded for all aluminum conductor mechanical screw-type connections and provided in report form, in the completed O&M manuals.

The contractor shall perform an infrared survey of all aluminum conductor connections after the installation is complete and in normal service. Infrared surveys shall be performed during periods of maximum possible loading with at least 30% of rated load of the equipment being inspected. All connections with elevated temperatures shall be corrected by the contractor. The infrared survey results shall be provided in report form, in the completed O&M manuals.

No copper-to-aluminum transitions permitted when splicing onto existing copper feeders.

Insulation shall have a 600 volt rating.

All conductors shall be stranded.

Stranded conductors may only be terminated with UL OR ETL Listed type terminations or methods:
e.g. stranded conductors may not be wrapped around a terminal screw but must be terminated with
a crimp type device or must be terminated in an approved back wired method.

ABOVEGROUND WIRE FOR EXTERIOR WORK

Description: Single conductor insulated wire, 90 degree C.

Insulation: Type XHHW-2 insulation.

UNDERGROUND WIRE FOR EXTERIOR WORK

Description: Stranded single or multiple conductor insulated wire, 90 degree C.

Insulation: Type USE-2, XHHW-2, RHW-2 insulation.

This wiring shall be used in all underground feeder and branch circuit applications, except THHN/THWN-2 is permitted when run in a concrete-encased ductbank.

WIRING CONNECTORS

Split Bolt Connectors: Not acceptable.

Solderless Pressure Connectors: High copper alloy terminal. May be used only for cable termination to equipment terminals. Not approved for splicing.

Twist Type Wire Connectors: Solderless twist type spring connector (wire-nut) with insulating cover for copper wire splices and taps. Use for conductor sizes 10 AWG and smaller. The manufacturer's wire fill capacity must be followed. Use Silicone filled twist type spring connectors in all wet location areas.

Mechanical Spring Actuation Connectors: Toolless type spring actuation connector (push-in) with spacers for copper wire splices and taps. Use for conductor sizes 12 AWG and smaller. The manufacturer's wire fill capacity must be followed. Use in interior, dry locations only.

All wire connectors used in underground or exterior pull boxes or hand holes shall be gel filled twist connectors or a connector designed for damp and wet locations. Gel filled twist type connectors can be used for copper conductor sizes 6 AWG and smaller for site lighting applications. The manufacturer's wire fill capacity must be followed.

Mechanical Connectors: Bolted type tin-plated; high conductivity copper alloy; spacer between conductors; beveled cable entrances.

Compression (crimp) Connectors: Long barrel; seamless, tin-plated electrolytic copper tubing; internally beveled barrel ends. Connector shall be clearly marked with the wire size and type and proper number and location of crimps. Connector must be installed with a crimper tool listed for use with the manufacturer and type of compression connector.

Insulation Piercing Connectors: Molded insulated body, copper teeth, wrench tightened, UL 486B Listed. May be used only for connection of a tap conductor in run and tap type applications when main conductor is 8 AWG and larger.

PART 3 - EXECUTION

GENERAL WIRING METHODS

All wire and cable shall be installed in conduit.

Do not use wire smaller than 12 AWG for power and lighting circuits.

All phase, neutral and ground conductors shall be sized to prevent excessive voltage drop at rated circuit ampacity. As a minimum use 10 AWG conductors for 20 ampere, 120 volt branch circuit home runs longer than 100 feet (30 m), and for 20 ampere, 277 volt branch circuit home runs longer than 200 feet (61 m).

Ground conductor size shall be increased per NEC 250.122(B) when phase and phase/neutral conductors are increased in size.

Make conductor lengths for parallel conductors equal.

Splice only in junction or outlet boxes.

No conductor less than 10 AWG shall be installed in exterior underground conduit.

Identify ALL low voltage wire, 600V and lower, per section 26 05 53.

Neatly train and lace wiring inside boxes, equipment, and panelboards.

WIRING INSTALLATION IN RACEWAYS

Pull all conductors into a raceway at the same time. Use Listed water or silicone based wire pulling lubricant for pulling 4 AWG and larger wires and for other conditions when necessary. Wax based lubricants are not allowed. Pulling lubricant is not required for low friction type products where the cable manufacturer recommends that cables be pulled without lube.

Install wire in raceway after interior of building has been physically protected from the weather and all mechanical work likely to injure conductors has been completed.

Completely and thoroughly swab raceway system before installing conductors.

Place all conductors of a given circuit (this includes phase wires, neutral (if any), and ground conductor) in the same raceway. If parallel phase and/or neutral wires are used, then place an equal number of phase and neutral conductors in same raceway or cable.

Manufacturers maximum pulling tensions shall be not be exceeded and individual pulls shall not exceed 270 degrees.

In high ambient spaces, mechanical rooms, utility rooms and exterior exposed conduit, 90 degree C, XHHW-2 conductors shall be utilized.

WIRING CONNECTIONS AND TERMINATIONS

Splice only in accessible junction boxes.

Wire splices and taps shall be made firm, and adequate to carry the full current rating of the respective wire without soldering and without perceptible temperature rise.

All splices shall be so made that they have an electrical resistance not in excess of two feet (600 mm) of the conductor.

Use solderless twist type spring connectors (wire nuts) with insulating covers for copper wire splices and taps, 10 AWG and smaller or toolless type actuation connectors (push-in) with spacers for copper wire splices and taps, 12 AWG and smaller. Use mechanical or compression connectors for wire splices and taps, 8 AWG and larger. Tape uninsulated conductors and connectors with electrical tape to 150 percent of the insulation value of the wiring.

Thoroughly clean wires before installing lugs and connectors.

At all splices and terminations, leave tails long enough to cut splice out and completely re-splice.

FIELD QUALITY CONTROL

Field inspection and testing will be performed under provisions of Section 26 05 04.

Additional testing as follows shall be performed if aluminum conductors are used:

Feeders terminated with aluminum conductors shall be tested with a thermal imager and recorded.

Conductors shall be closely checked for loose or poor connections, and for signs of overheating or corrosion.

Test procedures shall meet NETA guidelines.

Test results and report shall be provided to the engineer and included in O&M manual under AL conductors/ tests.

Contractor shall correct all deficiencies reported in the test report.

WIRE COLOR

General:

Solid colored insulation is required for all THHN/THWN-2 wire. For other wire types use colored wire or identify wire with colored tape at all terminals, splices and boxes. Wire shall be colored as indicated below.

In existing facilities, use existing color scheme.

In new facilities, use black and red for single phase circuits at 120/240 volts, use Phase A black, Phase B red and Phase C blue for circuits at 120/208 volts single or three phase, and use Phase A brown, Phase B orange and Phase C yellow for circuits at 277/480 volts single or three phase. Note: This includes fixture whips except for Listed whips mounted by the fixture manufacturer on the fixture and Listed as a System.

Switch legs shall be the same color as their associated circuit, except for the second switch leg used for dual-level switching. The second switch leg shall be the next phase color, e.g. if the first switch leg is brown (277/480V phase A), the second switch leg shall be orange (277/480V phase B).

Traveler conductors run between 3 and 4 way switches shall be colored pink or purple.

Neutral Conductors: White for 120/208V and 120/240V systems, Gray for 277/480V systems. Where there are two or more neutrals in one conduit, each shall be individually identified with a different stripe.

Branch Circuit Conductors: Three or four wire home runs shall have each phase uniquely color coded.

Feeder Circuit Conductors: Each phase shall be uniquely color coded.

Ground Conductors: Green colored insulation for THHN/THWN-2 wire. For other wire types use green colored wire or identify wire with green tape at both ends and at all access points, such as panelboards, motor starters, disconnects and junction boxes. When isolated grounds are required, contractor shall provide green with yellow tracer.

BRANCH CIRCUITS

The use of single-phase, multi-wire branch circuits with a common neutral is not permitted. All single-phase branch circuits shall be furnished and installed with an individual accompanying neutral, sized the same as the phase conductors.

CONSTRUCTION VERIFICATION

Contractor is responsible for utilizing the construction verification checklists supplied under specification Section 26 08 00 in accordance with the procedures defined for construction verification in Section 01 91 01.

END OF SECTION

SECTION 26 05 26
GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
BASED ON DFD MASTER ELECTRICAL SPEC DATED 05/20/26

PART 1 - GENERAL

SCOPE

The work under this section includes grounding electrodes and conductors, equipment grounding conductors, and bonding for Electrical and Communications systems. Included are the following topics:

PART 1 - GENERAL

- Scope
- Related Work
- References
- Performance Requirements
- Submittals
- Project Record Documents
- Regulatory Requirements

PART 2 - PRODUCTS

- Rod Electrode
- Concrete-Encased Grounding Electrode
- Mechanical Connectors
- Compression Connectors
- Exothermic Connections
- Conductors
- Bus/Busbar

PART 3 - EXECUTION

- Examination
- General
- Less Than 600 Volt System Grounding
- Communication System Grounding
- Field Quality Control
- Identification and Labeling
- Construction Verification Items
- Warranty

All hardware, cables and related termination and support hardware shall be furnished, installed, wired, tested, labeled, and documented by the Contractor, as detailed in this and related sections.

RELATED WORK

Applicable provisions of Division 1 govern work under this Section.

Section 26 08 00 - Commissioning of Electrical.

Section 01 91 01 - Commissioning Process

REFERENCES

ANSI/IEEE 81 (Latest edition) - Guide to Measuring Earth Resistivity, Ground Impedance and Earth Surface Potentials of a Grounding System

ANSI/IEEE 142 (Latest edition) - Recommended Practice for Grounding of Industrial and Commercial Power Systems

UL 467 Electrical Grounding and Bonding Equipment

IEEE 837 - IEEE Standard for Qualifying Permanent Connections Used in Substation Grounding

TIA-607-C - Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications

PERFORMANCE REQUIREMENTS

Grounding System Resistance:

- Equipment Rated 500 KVA and Less: 10 ohms maximum at building service entrance.
- Equipment Rated 500 to 1000 KVA: 5 ohms maximum at building service entrance.
- Equipment Rated more than 1000 KVA: 3 ohms building service entrance.
- Communications Ground Busbars: 5 ohms maximum.

Use suitable test instrument to measure resistance to ground of system. Perform testing in accordance with test instrument manufacturer's recommendations. Perform fall-of-potential test in accordance with ANSI/IEEE 81 on main grounding electrode system.

Testing of grounding system resistance is to be witnessed by the DFD Electrical Inspector or Construction Representative.

Provide test report of grounding system overall resistance and resistance of each electrode in final O&M manuals and noted on record documents.

SUBMITTALS

Product Data: Provide data for grounding electrodes and connections.

Provide samples of ground labels.

Test Reports: Indicate overall resistance to ground and resistance of each electrode.

Manufacturer's Instructions: Include instructions for preparation, installation and examination of exothermic connectors.

PROJECT RECORD DOCUMENTS

Record locations of all electrical and telecommunications grounding electrodes, busbars and grounding conductors as installed including recorded ground resistance test results.

REGULATORY REQUIREMENTS

Conform to requirements of NFPA 70.

Furnish products listed and classified by Underwriters Laboratories, Inc. or testing firm acceptable to authority having jurisdiction as suitable for purpose specified and shown.

PART 2 - PRODUCTS

ROD ELECTRODE

Material: Copper-clad steel.

Diameter: 3/4 inch (19 mm) minimum.

Length: 10 feet (3.5 m) minimum. Rod shall be driven at least 9' 6" deep.

CONCRETE-ENCASED GROUNDING ELECTRODE FOR POLE BASES

Fabricate per NFPA 70, Article 250.52 (A)(3)(2) using 20 feet (6m) of bare copper wire not smaller than bare seven-strand #4 AWG. If concrete foundation is less than 20 feet (6m) long, coil excess conductor within the base of the foundation. Bond grounding conductor to reinforcing steel in at least four locations and to anchor bolts.

MECHANICAL CONNECTORS

The mechanical connector bodies shall be manufactured from high strength, high conductivity cast copper alloy material. Bolts, nuts, washers and lock washers shall be made of Silicon Bronze and supplied as a part of the connector body and shall be two hole, two bolt type.

Split bolt connector types are NOT allowed. Exception: the use of split bolts is acceptable for grounding of wire-basket type cable tray, and for cable shields/straps of medium voltage cable.

The connectors shall meet or exceed UL 467 and be clearly marked with the catalog number, conductor size and manufacturer.

COMPRESSION CONNECTORS

The compression connectors shall be manufactured from pure wrought copper. The conductivity of this material shall be no less than 99% by IACS standards.

Each connector shall be factory filled with an oxide-inhibiting compound.

The connectors shall meet or exceed the performance requirements of IEEE 837, latest revision.

The connectors shall be clearly marked with the manufacturer, catalog number, conductor size and the required compression tool settings.

The installation of the connectors shall be made with a compression tool and die system, as recommended by the manufacturer of the connectors, and shall be irreversible.

Pre-crimping of the ground rod is required for all irreversible compression connections to a ground rod.

Terminal lug for communication system grounding shall be compression type and conform to the following:

Material: Tin-Plated Copper (aluminum not permitted).

Wire Size: to match conductor

Number of Stud Holes: 2

Stud Hole Size: 3/8"

Bolt Hole Spacing: per TIA-607-C

Tongue Angle: Straight

EXOTHERMIC CONNECTIONS

As manufactured by Erico Cadweld, Harger Ultraweld or similar.

CONDUCTORS

Material: Stranded copper (aluminum not permitted).

Grounding Electrode Conductor: Bare seven-strand conductors. Size as shown on drawings, specifications or as required by NFPA 70, whichever is larger.

Feeder and Branch Circuit Equipment Ground: Size as shown on drawings, specifications or as required by NFPA 70, whichever is larger. Differentiate between the normal ground and the isolated ground when both are used at the same facility.

Branch Circuit Equipment Ground shall be proportionately increased in size when routed with phase conductors increased in size.

Conductors for Telecommunications shall be as follows:

Telecommunications Bonding Conductor (TMGB to Service Ground): No. 3/0 minimum or as shown on drawings.

Telecommunications Bonding Backbone (TBB; TMGB to TGB): No. 3/0 minimum or as shown on drawings.

Telecommunications Grounding Equalizer (GE): No. 3/0 minimum or as shown on drawings.

Bonding Conductors shall be insulated with a Green Jacket or jacket marked with Green Tape or labeled per NEC Guidelines.

BUS/BUSBAR

Material: [Copper]] Tin-Plated Copper] (aluminum not permitted).

Size:

All Power systems: 1/4" X 2", length as needed (24" minimum).

Telecommunications Main Ground Busbar (TMGB): 1/4" x 4" x 20" long (minimum).

Telecommunications Grounding Busbar (TGB): 1/4" x 2" x 12" long (minimum).

Busbars:

Be pre-drilled to accommodate two-hole lugs.

3/8" stud hole size; hole spacing per TIA-607-C.

Incorporate insulators and stand-off brackets that electrically isolate busbar from mounting surface.

Provide main ground busbar located adjacent to main electrical service equipment to terminate all ground conductors. Refer to DFD grounding detail 26 05 26-1.

PART 3 - EXECUTION

EXAMINATION

Verify that final backfill and compaction has been completed before driving rod electrodes.

GENERAL

Install Products in accordance with manufacturer's instructions.

Mechanical connections shall be accessible for inspection and checking. No insulation shall be installed over mechanical ground connections.

Ground connection surfaces shall be cleaned and all connections shall be made so that it is impossible to move them. Attach grounds permanently before permanent building service is energized.

All grounding conductor connections to Busbars shall be via two hole lugs.

Terminate each grounding conductor on its own terminal lug. Sharing a single lug by multiple conductors is not allowed.

All grounding electrode conductors and individual grounding conductors shall be installed in SCH 80 PVC conduit, in exposed locations.

Each grounding electrode conductor shall be labeled at each terminated end as to system served and location of second termination.

LESS THAN 600 VOLT ELECTRICAL SYSTEM GROUNDING

Supplementary Grounding Electrode: Use driven ground rod on exterior of building.

Provide code sized copper grounding electrode conductor from electrical room ground bus to secondary switchboard ground bus, each separately derived system neutral, secondary service system neutral to street side of water meter, building steel, ground rod, and any concrete encased electrodes. Provide bonding jumper around water meter. Provide physical protection as required.

Equipment Grounding Conductor: Provide separate, insulated equipment grounding conductor within each raceway. Terminate each end on suitable lug, bus, enclosure or bushing. Provide a ground wire from each device to the respective enclosure.

Bond together system neutrals, service equipment enclosures, exposed non-current carrying metal parts of electrical equipment, metal raceway systems, grounding conductor in raceways and cables, receptacle ground connectors, and plumbing systems.

FIELD QUALITY CONTROL

Inspect grounding and bonding system conductors and connections for tightness and proper installation.

Testing of grounding system resistance is to be witnessed by the DFD Electrical Inspector or Construction Representative. Provide test report of grounding system resistance in final O&M manuals and noted on record drawings.

Provide resistance test at each electrical and telecommunications Busbar to ground.

IDENTIFICATION AND LABELING

Label Grounds at point of termination.

Label for Bus Bars and Ground Bars shall be engraved laminate or Pre-printed (manufactured) plastic and include the following:

IF THIS CONNECTOR OR CABLE IS
LOOSE OR MUST BE REMOVED,
PLEASE CALL THE BUILDING
MANAGER.

Provide additional labeling of each individual terminated ground conductor at bus bar identifying installed source per NEC 250.52 A 1-7.

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IF THIS CONNECTOR OR CABLE IS
LOOSE OR MUST BE REMOVED,
PLEASE CALL THE BUILDING
TELECOMMUNICATIONS
MANAGER.

CONSTRUCTION VERIFICATION

Contractor is responsible for utilizing the construction verification checklists supplied under specification Section 26 08 00 in accordance with the procedures defined for construction verification in Section 01 91 01.

Record locations of all electrical and telecommunications grounding electrodes, busbars and grounding conductors as installed including recorded ground resistance test results.

WARRANTY

See Division 1, General Conditions, and General Requirements.

END OF SECTION

SECTION 32 31 13
CHAIN LINK FENCING AND GATES
BASED ON DFD MASTER SPECIFICATION DATED 10/01/12

PART 1 - GENERAL

SCOPE

The work under this section shall consist of providing all work, materials, labor, equipment, and supervision necessary to provide a fully functioning fence and gate installation as provided for in these specifications and on the drawings. Included are the following topics:

PART 1 - GENERAL

- Scope
- Related Work
- Reference
- Continuity of Existing Security Fencing
- Record Drawings

PART 2 - MATERIALS

- General
- Fence Height
- Line Posts
- Required Arms, Rails, and Tension Wires
- Required Coatings
- Fabric
- Fabric Fasteners
- Materials to be Furnished
- Schedule of Fencing and Gate Materials
- Gates
- Gate Hardware
- Post Tops
- Tension Wire
- Stretcher Bars
- Ground Rods
- Concrete

PART 3 - EXECUTION

- Site Work
- Concrete Footings
- Posts and Braces
- Post Bracing Assembly
- Stretcher Bars
- Ground Rods
- Fabric
- Grade Clearance
- Gates
- Cleanup

RELATED WORK

Applicable provisions of Division 1 govern work under this Section.

03 30 10 – Cast-in-Place Concrete For Site Work

REFERENCE

Unless otherwise specified in these specifications or otherwise shown on the drawings, conform all work under this section to Section 616.2.3 of the Wisconsin Department of Transportation, Standard Specifications for Road and Bridge Construction, current edition.

CONTINUITY OF EXISTING SECURITY FENCING

Do not interrupt or change existing security fencing without prior written approval from the engineer. When interruption is required coordinate the schedule with the Owner agency to minimize disruptions. Unless specifically stated, all work involved in interrupting or changing existing security fencing is to be done during normal working hours.

Verify the locations of any water main, sanitary sewer, storm sewer, drainage, gas, electric, telephone or steam lines which may be encountered in the excavation of fence bases.

RECORD DRAWINGS

Maintain record drawings of all fencing installations and points of connection made as part of this project and for future connection on original drawings prepared by the installing contractor/subcontractor. Include copies of record drawings with the Operating and Maintenance instructions.

PART 2 - MATERIALS

GENERAL

All materials furnished shall be new materials unless otherwise specified. Salvaged materials may be used only when specified.

FENCE HEIGHT

The height of the fence shall be as shown on the plans or specified. The designated height of the fence shall be the fabric height.

LINE POSTS

Line posts may be driven posts.

REQUIRED ARMS, RAILS, AND TENSION WIRES

Provide rampart arm, top rail/tension wire, intermediate rail, and bottom rail/tension wire in accordance with the drawings.

REQUIRED COATINGS

All items used shall be galvanized and vinyl coated.

Vinyl coating thickness, galvanized coating weight, and wire tensile strength conform to ASTM F668, Class 2b. Color: black

FABRIC

Provide 9-gauge aluminum coated, two (2) inch mesh fabric, with knuckled selvage on top and bottom conforming to ASTM A-491.

FABRIC FASTENERS

Provide fabric fasteners of steel wire clips and tie wires galvanized in accordance with ASTM A-641, Class III, or aluminum coated in conformance with fence fabric specifications.

Provide fasteners for posts, top and intermediate rails, bottom rails, top tension wires and braces of 9 gauge steel or 0.179 inch diameter aluminum tie wires.

Provide fasteners for bottom tension wire of not smaller than 12 gauge or 0.149 inch diameter aluminum tie wires.

MATERIALS TO BE FURNISHED

Furnish materials in accordance with the following schedules for the fence height specified:

SCHEDULE OF FENCING MATERIALS AND GATE MATERIALS							
TYPE AND HEIGHT	POST TYPE	SIZE O.D. (IN)	MIN. WALL THICK (IN)	MIN. SECT MODULUS (IN ³)	MIN. YIELD STRENGTH (PSI)	MIN. WGT (LBS/ FT.)	MAX. POST SPACE (FT.)
LINE POSTS (6 FEET OR LESS)	SCH 40 Pipe-Steel	1.90	0.145	0.326	25,800	2.72	10
	SS 40 Pipe Steel	1.90	0.090	0.221	45,000	1.74	10
LINE AND CORNER POSTS (6 FEET OR LESS WITH WINDSCREEN)	SCH 40 Pipe-Steel	2.875	0.203	1.063	25,800	5.79	8
	SS 40 Pipe Steel	2.875	0.160	0.636	45,000	3.25	6
LINE POSTS (8 FEET)	SCH 40 Pipe Steel	2.375	0.154	0.560	25,800	3.65	10
	SS 40 Pipe Steel	2.375	0.120	0.456	45,000	2.64	10
LINE AND CORNER POSTS (8 FEET WITH WINDSCREEN)	SCH 40 Pipe Steel	2.875	0.226	2.386	25,800	9.10	8
	SS 40 Pipe Steel	2.875	0.160	0.878	45,000	4.64	6
LINE AND CORNER POSTS (12 FEET WITH WINDSCREEN)	SCH 40 Pipe Steel	4.00	0.226	2.386	25,800	9.10	8
	SS 40 Pipe Steel	2.875	0.160	0.878	45,000	4.64	6
CORNER AND BRACE POSTS (7 FEET or LESS)	SCH 40 Pipe-Steel	2.375	0.154	0.560	25,800	3.65	--
	SS 40 Pipe Steel	2.375	0.130	0.485	45,000	3.12	--
CORNER AND BRACE POSTS (8 FEET or 10 FEET)	SCH 40 Pipe Steel	2.875	0.203	1.064	25,800	5.79	--
	SS 40 Pipe Steel	2.875	0.110	0.636	45,000	3.25	--
RAILS AND BRACES	SCH 40 Pipe-Steel	1.66	0.140	0.235	25,800	2.27	--
	SS 40 Pipe Steel	1.66	0.111	0.196	45,000	1.84	--
GATE POSTS LEAF WIDTH (6 FEET OR LESS)	SCH 40 Pipe-Steel	2.875	0.203	1.064	25,800	5.79	--
	SS 40 Pipe Steel	2.875	0.160	0.877	45,000	4.64	--
LEAF WIDTH (7 TO 13 FEET)	SCH 40 Pipe Steel	4.00	0.226	2.386	25,800	9.10	--
	SS 40 Pipe Steel	2.875	0.160	0.878	45000	4.64	--
GATE FRAMES	SCH 40 Pipe-Steel	1.90	0.145	0.326	25,800	2.72	--
	SS 40 Pipe Steel	1.90	0.090	0.221	45,000	1.74	--

GATES

Provide additional horizontal and vertical members as necessary to assure proper gate operation and attachment to fabric and hardware.

Provide diagonal braces made of crossed adjustable length three-eighth inch diameter truss rods on non-welded gate frames and on welded frames where corner rigidity is not sufficient to prevent sag.

Gate frames shall be covered with the same fabric as the fence.

Weld or assemble gate frames with malleable or pressed steel fittings and rivets to provide rigid connections. Install fabric with stretcher bars at vertical edges. Attach to frame at fifteen (15) inches o.c. all sides. Provide caps for all gate frame work ends.

GATE HARDWARE

Provide heavy duty hinges of malleable iron, pressed or forged steel, non-lift-off type, adjusted to permit 180 degree gate opening. Provide two (2) hinges for each leaf.

Provide heavy duty forked type or plunger bar type latches for all single leaf gates. Provide center stop and keeper for all double leaf gates. Provide spring latch for all sliding gates. Provide padlock eye as an integral part of all latches.

Provide heavy duty track, ball bearing hanger sheaves framing and supports, guides, stays stops and bracing necessary for sliding gates.

POST TOPS

Provide cast or malleable iron tops on all posts. Tops shall have an opening for the top rail to pass through.

TENSION WIRE

Provide 7 gauge tension wire conforming to the fence fabric used, complete with end clamps.

STRETCHER BARS

Provide stretcher bars of one piece lengths equal to the full fabric height with a minimum cross section of 3/16" x 3/4". Provide one (1) stretcher bar for each gate and end post and two (2) for each corner and pull post, except roll form posts with integral loops.

GROUND RODS

Provide a one-half inch diameter six (6) foot long copper clad rod to provide a ground. Provide one (1) for each 1,000' of fence and one for each separated fence section.

CONCRETE

All concrete for post base construction shall be a five (5) bag mix, and shall be mixed to obtain a low slump. Maximum aggregate size shall be one (1) inch. Two (2) percent to four (4) percent entrained air is allowed.

PART 3 - EXECUTION

SITE WORK

Prior to fence construction remove and dispose of all trees, brush, logs, stumps and other debris for a width of at least twelve (12) inches each side of the proposed fence alignment.

CONCRETE FOOTINGS

Excavate holes for footings to neat dimensions in firm ground to insure the post will be centered. Remove rock or other obstructions encountered to the required depth. Use forms in unstable soil and allow them to

1 remain in place for at least twenty-four (24) hours after concrete is poured. Backfill, after forms are removed,
2 with suitable material thoroughly compacted in place in layers to prevent settlement.
3

4 Footings shall be 5' deep and 3X post diameter minimum. The bottom of the post shall be three (3) inches
5 above the bottom of the hole. Corner, gate and end post bases shall be 3X post diameter, minimum. Gate
6 posts larger than four (4) inches o.d. shall have a base with a minimum diameter of eighteen (18) inches.
7 Concrete bases shall be domed at the post and have a smooth troweled finish. Concrete footings shall cure
8 for seven (7) days before placing tension wires.
9

10 **POSTS AND BRACES**

11 Set posts in a vertical position at the required location and alignment. Set tops at the required elevation to
12 provide a smooth profile at the top rail or tension wire without abrupt changes and in conformity with the
13 general contour and which meets the approval of the Engineer.
14

15 Place an end post at each end of each run of fence. Place a corner post whenever a break of 30 degrees or
16 more occurs in the horizontal alignment. Set an intersection post in line with an intersecting chain link fence
17 and brace it to the adjacent posts of the intersecting fence.
18

19 Place an intermediate braced post where the vertical alignment changes by more than 5 degrees, or a change
20 in fence grade of more than nine (9) percent occurs.
21

22 Place an intermediate braced post at 660' intervals for fence with a top rail and at 1,000' intervals for fence
23 with a top tension wire on all long runs of fence. Set an intermediate brace post at the approximate midpoint
24 when runs of fence are less than 1,320' but more than 660' for fence with top rail, or less than 2,000' but more
25 than 1,000' for fence with top tension wire.
26

27 Where driven posts are specified, all end, corner, gate and brace posts must be set in concrete. Driven posts
28 shall be driven a minimum of sixty (60) inches into undisturbed soil.
29

30 **POST BRACING ASSEMBLY**

31 Post bracing assemblies consist of one (1) or more brace rails and a three-eighths (3/8) inch truss rod as
32 hereafter specified. Provide brace rails the same size as the top rail. Provide truss rods with an adjustable
33 take-up adapter.
34

35 Install a single bracing assembly at each gate and end post location.
36

37 Install a double bracing assembly at each corner post and all intermediate braced posts.
38

39 Provide the bracing assembly with one horizontal brace rail and one (1) diagonal truss rod on all fences which
40 have a top rail. Locate the horizontal brace rail in accordance with the manufacturer's specifications.
41

42 Provide the bracing assembly with one horizontal brace rail and one diagonal brace rail and one diagonal
43 truss rod on all fences which do not have a top rail. Locate the horizontal rail in accordance with the
44 manufacturer's specifications.
45

46 **STRETCHER BARS**

47 Provide one (1) stretcher bar for each gate and end post and two (2) for each corner and pull post, except roll
48 form posts with integral loops. Attach to posts with heavy duty pressed steel or malleable iron bands spaced
49 at fifteen (15) inches o.c.
50

51 **GROUND RODS**

52 Connect at least three (3) fence wires to the ground rod by clamping, bolting or brazing. Ground rod shall
53 be installed on line with fence.
54

1 Install ground rods as specified for each run of fence and install additional rods for each 1,000' on long runs
2 of fence.

3 4 **FABRIC**

5 Install, stretch, and anchor tension wires to each end, corner, gate and brace post and properly attach to each
6 line post before the fabric is placed. Pass top tension wire thru the post top rail opening. Install top,
7 intermediate and bottom rails at proper locations.

8
9 Hang fabric on the inside (playing side) of all installations at athletic field.

10
11 Attach the end of the fabric to the end, corner, gate or brace posts (except roll form posts with integral loops)
12 by means of a stretcher bar threaded through the end loops of the fabric and stretched to remove all slack
13 with proper stretching equipment. Secure the stretched fabric to posts, rails and tension wires with specified
14 fabric fasteners. Install fabric fasteners on all posts at not greater than fourteen (14) inches o.c. and on rails
15 and bottom tension wires at not more than twenty-four (24) inches o.c. Where a top tension wire is installed,
16 fasten to the fabric at not more than eighteen (18) inches o.c.

17
18 Repeat stretching operations at approximately every 100' for each run of fence.

19
20 Make splices in fabric by interweaving a wire picket through each end loop of each piece of fabric. Each
21 splice shall be subject to the Engineers approval.

22 23 **GRADE CLEARANCE**

24 For athletic field, provide a clearance from the bottom of the fabric to the new finished grade of one (1) inch.

25 26 **GATES**

27 Install gates plumb and level and adjust for smooth operation as intended, without binding or hanging up.

28 29 **CLEANUP**

30 After chain link fence construction is completed clean up all storage and work areas. Replace or repair as
31 required all landscape features damaged or disturbed under this contract.

32
33 **END OF SECTION**

SECTION 32 93 00.01
SYNTHETIC TURF SYSTEM – RUBBER-SAND INFILL

PART 1 - GENERAL

SCOPE

Furnish all labor, materials, tools, and equipment necessary to install, in place, all synthetic turf materials as indicated on the plans and as specified herein. The synthetic turf system shall consist of the rubber/sand infill synthetic turf including specified markings laid on a graded stone base, shall be provided by the GPC with a qualified turf manufacturer and installer. Provide all necessary fastening systems to connect turf to a perimeter wood nailer system attached to a concrete curb. Concrete curb and wood nailer will be provided and installed by GPC. The installation of all new materials shall be performed in strict accordance with the Synthetic Turf Manufacturer's installation instruction standards, and in accordance with all approved shop drawings. Included are the following topics:

PART 1 – GENERAL

- Scope
- Related Work
- Submittals
- Shop Drawings
- Quality Assurance
- Warranty
- Surface Area

PART 2 – MATERIALS

- Synthetic Turf
- Shock Absorbency of the Synthetic Turf
- Repair Materials
- Special Requirements
- Acceptable Products
- Wood Nailer

PART 3 – EXECUTION

- General
- Surface Planarity
- Synthetic Turf
- Field Markings and Decorations
- Clean Up

RELATED WORK

Applicable provisions of Division 1 govern work under this Section.

Section 32 11 23.33 –Dense Graded Base

SUBMITTALS

The following will be submitted as post-Bid submittals, if requested by the Owner:

Samples:

Synthetic Turf:

One box sample, minimum 12"x15", with clear (plexiglass) sides and closeable top. Install turf system, in filled to the proper depth.

One fabric only sample, minimum 12"x24", with seam joint and a tufted-in white stripe, 4-inched wide.

One fabric only sample, minimum 12"x24", with double seam join and inlaid white stripe, 4-inched wide.

Infill Material – three samples in pint size bags with re-sealable closures.

1 Quality Assurance Information:

2 Supply factory-trained installer or MANUFACTURER-approved subcontractors for the installation of the
3 synthetic turf components. Provide full-time onsite supervision by manufacturer-approved representative.
4 Onsite attendance at all project construction meetings is required.

5
6 Provide certified list of prior installation projects to meet the experience requirements outlined in
7 subsequent section "Quality Assurance", including the names and telephone numbers of Owner
8 representative, who are knowledgeable and can attest to:

- 9 • Compliance with quality assurance and contract performance requirements
- 10 • Subsequent product performance for intended sports usage.

11
12 If the reference list includes different Contracting Parties and/or sub-entities other than those names
13 indicated in the above paragraph for this project; then, each reference should be annotated with the names
14 of the Synthetic Turf Manufacturer, synthetic turf installer. Resume for key installation personnel and
15 supervisors are not acceptable. Each individual's resume must list specific projects and positions(s) held
16 on each project and keyed to the reference list.

17
18 Provide sample single-source warranty document from the Synthetic Turf Manufacturer covering materials
19 and workmanship for all components that comprise the synthetic turf system. Should the Synthetic Turf
20 Manufacturer not be the direct installer of the fabric; the warranties from Manufacturer-approved,
21 installation subcontractors must also be supplied to cover both materials and/or workmanship for the
22 specified warranty period of eight years.

23
24 Third Party Insured Warranty:

25
26 Synthetic Turf Manufacturer to provide copy of Third Party Insured Warranty with submittals. In addition
27 to standard warranty, Synthetic Turf Manufacturer to provide Third Party Insured Warranty from A - rated
28 (AM Best Excellent Rated) Insurer. Provide Warranty Certificate, Accord Certificate, Copy of actual
29 insurance policy, and proof of AM Best Rating for insured warranty provider.

30 Policy must;

- 31 • Be completely pre-paid matching standard 8 year Manufacturer's warranty.
- 32 • Be non-prorated.
- 33 • Have no usage limited hours of use or areas of the field which are not covered or color
34 limitations which void standard or insured warranty.
- 35 • Provide coverage regardless of corporate status of original Synthetic Turf Manufacturer
- 36 • Provide coverage directly to Owner (warranty holder).
- 37 • List Owner as well as Synthetic Turf Manufacturer as insured.
- 38 • Provide coverage for replacement of entire field based on failure during warranty period.
- 39 • Be non-cancelable by Synthetic Turf Manufacturer or insurance provider during policy
40 period.
- 41 • Contain no periods of self insurance.
- 42 • Provide a minimum claim limit of \$500,000.00.
- 43 • Have no exclusions for epidemic or catastrophic failure

44
45 If subcontracted and/or third party installers are used to install the turf fabric then, the subcontract installers
46 must be Synthetic Turf Manufacturer approved, and the warranties from these subcontracted installers shall
47 be issued to the Synthetic Turf Manufacturer and GPC, who in-turn will be responsible to the Owner for the
48 complete system

49
50 Certified copies of independent (third-party) laboratory reports on ASTM tests as follows to assure
51 compliance with the product specifications.

52
53 Primary Pile Fiber Type and Denier, Pile Height & Face Height – ASTM D418

54
55 Primary and Secondary Backing Weights and Materials Types – ASTM D418

1 Total Fabric Weight – ASTM D418

2
3 Turf Bind – ASTM D1335 (unfilled fabric)

4
5 Grab Tear Strength – ASTM D1682 (unfilled fabric)

6
7 Maintenance Manual

8
9 Submit detailed list of recommended maintenance equipment for Owner purchase to insure the continued
10 cleanliness and performance of the installed synthetic turf system. Provide latest manufacturer's pricing
11 and local availability.

12
13 At Substantial Completion, submit to the Owner an executed copy of the warranty documents and two
14 additional copies of Maintenance Manuals, which will include all necessary instruction for the proper care
15 and preventative maintenance of the synthetic turf system, including, but not limited to, temporary painting
16 and striping, minor seam repairs, disinfection and clean-up, application of antibacterial products, and top-
17 dressing with additional infill materials.

18
19 **SHOP DRAWINGS**

20 Shop drawings shall be prepared at the scale of the construction documents and contain all pertinent
21 information regarding installation. Four sets of these drawings shall be submitted to the Owner for review
22 and approval prior to the manufacture and shipment of the materials to the jobsite. Submit drawings for:

23
24 Seaming plan

25
26 Installation details; edge anchoring detail, goal post foundation fastening detail, other inserts, and
27 corner flags.

28
29 Composite striping plan, layouts and details for NCAA and Wisconsin Intercollegiate Athletic
30 Conference baseball compliance, showing any field lines, markings, and boundaries per project
31 drawings. Detail colors and note which markings are tufted-in fabric versus inlaid fabric.

32
33 **QUALITY ASSURANCE**

34 Synthetic Turf Manufacturer and Installer's Experience:

35
36 Provide, with proposal, documentation of successful installations from the past five (5) years.

37
38 **WARRANTY**

39 The Synthetic Turf provider shall submit its manufacturer's, Installation Warranty and Insured 3rd Party
40 Warranty, which guarantees the usability and playability of the synthetic turf system for its intended use
41 for a eight-year period commencing with the date of Substantial Completion. The warranty coverage shall
42 not be prorated or limited on the amount of the usage. There shall be no deductible.

43
44 General: The warranty submitted must have the following characteristics.

- 45
46
 - Provide full coverage for eight years from the date of Substantial Completion.
 - 47 • Warrant materials and workmanship on a non-prorated basis and without limitation on the
 - 48 amount of usage
 - 49 • Coverage may not be limited on portions of the field or specific color areas
 - 50 • Warrant that the materials installed meet or exceed the product specifications stated herein.
 - 51 • Have a provision to either make a cash refund of to repair or replace such portions of the
 - 52 installed materials that are no longer serviceable in order to maintain a serviceable and
 - 53 playable surface at the Owner's option.
 - 54 • Must be a warranty from a single source covering workmanship and all self-manufactured or
 - 55 procured materials.

- Must guarantee the availability or replacement materials for the synthetic turf system installed for the full warranty period.

INSURED WARRANTY

In addition to standard warranty, Provide Third Party Insured Warranty as described in Submittals, above.

SURFACE AREA

See Drawings for layout. Contractor to verify all measurements as part of submittal process.

PART 2 – MATERIALS

SYNTHETIC TURF

Turf shall be UV-stabilized. Fabric shall be a blend of 50% extruded polyethylene monofilament, 50% parallel slit film or polyethylene/nylon twisted monofilament and nylon or polyethylene grass-like thatch fibers tufted into a high strength composite backing. The fibers shall be tufted to a minimum pile height of 2.00 inches in grass areas and 1.5 inches in infield/warning track areas. A double layer of primary cloth backings shall be utilized. The tufted fabric shall be filled with a mixture of SBR crumb rubber mixture and rounded, uniformly-sized silica sand.

The complete turf system shall be designed and manufactured for use on outdoor athletic fields. The materials, as hereinafter specified, shall be resistant to insect infestation, rot, fungus, mildew, ultraviolet light degradation, and heat degradation. The completed system shall have the basic characteristic of free vertical drainage of surface run-off through the infill turf system to the permeable sub-base and ultimately into the perimeter storm inlet system.

Pile yarn (polyethylene) shall be proven athletic caliber yarn designed specifically for outdoor use and stabilized to resist the effect of ultraviolet degradation, heat, foot traffic, water, and airborne pollutants.

The primary pile fibers shall possess the following physical characteristics:

Fiber Type:	UV-stabilized extruded polyethylene
Denier:	> 10,000 denier – monofilament
> 8,000 denier – slit film	
Yarn Thickness/ Width	slit film - minimum 100 microns monofilament – minimum 260 microns
Breaking Load	> 18 lbs. force
Elongation to Break	>50%
Pile Fiber Weight	> 60 ounces per square yard – Grass and Infield/Warning Track Areas > 90 ounces per square yard – Mound/Plate/Pitchers - High Use Areas/Panels

The pile fabric shall possess the following physical characteristics:

Finished Pile Ht.	MINIMUM 1.50” – Infield/Warning Track Areas, 2.00” Grass Areas
Primary Backings	> 8 oz. per square yard
Secondary Elastomeric Coating	min. 20 oz per square yard
Permeability	> 10 inches of water/hour;

carpet shall be perforated to promote maximum drainage

Fabric Width 15 feet

Tuft Bind Strength > 7 lbs

Grab Tear Strength length - min 200 lbs
width – min 200 lbs

Pill Burn Test Pass (with filling)

In-fill material shall be a suitable mixture of SBR rubber granules and rounded, uniformly-sized silica sand. Allowable percentages shall be:

SBR rubber granules:	Minimum 30% by weight Maximum 70% by weight
Silica Sand:	Minimum 30% by weight Maximum 70% by weight

In-fill material shall be worked into the pile fiber matrix to a depth of approximately ¼” below the finished pile height, as required to prove the minimum initial attenuation property specified.

Manufacturer of synthetic turf system shall identify any modifications to the plan details for perimeter edge details, underground storm sewer piping and connection, and goal post foundations required to ensure compatibility with turf system.

Seams shall be custom cut on site using suitable equipment and manufacturer’s standard sewn / glued installation techniques. Box lines and other in-lays shall be glued

FIELD / LOGO COLORS

Grass Area Fabric Color Manufacturer’s standard green blend, approved by Owner.

Box Area and Border Manufacturer’s standard Clay or Brown, approved by Owner, and White Border

Infield Area Fabric Color Manufacturer’s standard Clay or Brown, approved by Owner.

Baseball/Softball Markings White – Manufacturer’s Standard.

Field markings and decorations Four-inch (4”) wide strips of tufted-in white fabric shall be used to delineate the foul lines, player boxes, on deck circles, and coach boxes.

Center Field Logo Custom colors exactly matching official UW-Oshkosh colors.

35’x5’ Backstop Logo Custom colors to be determined.

Markings shall meet NCAA and Wisconsin Intercollegiate Athletic Conference rules.

SHOCK ABSORBENCY OF THE SYNTHETIC TURF

Test Locations

The installed system will be tested for Gmax in accordance with ASTM F-1936 at the locations defined in ASTM F 1936. All test locations will be offset approximately 12-inches from any fabric seam, and all subsequent re-testing will be performed at the exact same locations as previous test locations for comparisons. Document test locations in test report. Testing shall be performed at Contractor’s expense

utilizing services of an independent testing laboratory with 5 years documented experience in performance of G-Max testing. Submit qualifications of test lab for approval by Owner ahead of scheduled testing.

Test Frequency and Gmax Compliance Standards – The Synthetic manufacturer shall arrange and pay for an independent test lab to test the synthetic turf upon completion of synthetic turf placement. A second test in year 5 will be paid for by the Owner using an independent testing agency. The owner, testing agency and turf provider will evaluate and make recommendations at that time. Contractor shall be responsible for bringing field into compliance if Gmax testing indicates that field falls below acceptable Gmax level as defined below.

Gmax test value standards shall not exceed the following: At Substantial Completion not to exceed 165 G's average with no single location value in excess of 165 as the average of the 2nd and 3rd drop.

After the 5th year and with no more than one top dressing at Owner's expense a second Gmax test shall be performed by independent testing agency at Owner's expense. At that time Gmax will be evaluated with the Owner and turf provider. In no event shall the Gmax Average for the field exceed 165 at any location during the warranty period.

REPAIR MATERIALS

Upon Substantial Completion supply directly to Owner the following items in the quantity specified to repair 1500 sq. ft.:

Seaming Tape, Seaming Epoxy, Turf Fabric (Green), Infill Rubber/Sand

Supply maintenance information and contact source

MAINTENANCE EQUIPMENT AND TRAINING

Provide the following equipment: By Owner

Provide four (4) hours of onsite training to Owner's staff on care of turf and operation of maintenance equipment.

Provide Owner with four (4) signs indicating restrictions of use on the synthetic turf field to be displayed on the fence adjacent to the athletic field.

SPECIAL REQUIREMENTS

Turf Vendor to supply extra resilient turf panels at high use areas of the field including pitching, catching and batting areas of the main field. These panels are to be fastened in place by Velcro. Turf Vendor to provide 4 panels for each location.

1. Baseball

- a. Batter's Box (right and left) – total of 8 panels
- b. Catcher's Area – total of 4panels
- c. Pitcher's Lane – total of 4 panels

ACCEPTABLE SYNTHETIC TURF PROVIDERS

Products from AstroTurf, FieldTurf, Sprinturf, Tencate Midwest, Shaw Sports Turf, or A/E approved turf vendors will be considered.

WOOD NAILER

Lumber: Pressure treated, ground rated, 2x4 #2 grade.

Anchors: 3" direct drive concrete anchors.

1 **PART THREE – EXECUTION**

2
3 **GENERAL**

4 The installation shall be performed in full compliance with approved shop drawings.

5
6 Only technicians, factory-trained in the installation of athletic caliber synthetic turf system working under
7 the direct supervision of the Synthetic Turf Manufacturer's construction supervisors shall undertake the
8 placement of the system.

9
10 The surface to receive the synthetic turf shall be inspected and certified by the manufacturer as ready for
11 the installation of the synthetic turf system and must be clean as installation commences and shall be
12 maintained in that condition throughout the process.

13
14 **SURFACE PLANARITY**

15 Turf Installer will have access to finished stone subgrade for planarity checks. CONTRACTOR shall
16 provide notice of completion of grading and stone subgrade to A/E and UW-Oshkosh and shall maintain
17 finished stone subgrade ready for planarity checks for up to 5 business days following notification.

18
19 Turf installer shall commence planarity checks of stone subgrade within 5 business days of notification by
20 CONTRACTOR.

21
22 **SYNTHETIC TURF**

23 *Synthetic turf shall be loose laid across the field, stretched, and attached to the perimeter edge nailer per*
24 *the detail and manufacturer's standard attachment procedures. Turf shall be of sufficient length to permit*
25 *full cross-field installation. Minimize head and cross seams between the foul lines.*

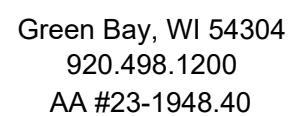
26
27 *All turf panel seams shall be transverse to the field direction; i.e., run perpendicularly across the field.*
28 *Seams shall be flat, tight, and permanent with no separation or fraying.*

29
30 Infill materials shall be properly mixed on site and applied in numerous lifts using special broadcasting
31 equipment in accordance with manufactures recommendations. The turf shall be raked and brushed
32 properly as the mixture is applied. The infill material shall be installed to a depth of ¼" below the top of
33 the turf fiber surface. The mixture can only be applied when dry.

34
35 **CLEAN UP**

36 Contractor shall provide the labor, supplied, and equipment as necessary for final cleaning of surfaces and
37 installed items. All usable remnants of new material shall become the property of the Owner. The
38 contractor shall keep the area clean throughout the project and clear of debris. Contractor is responsible for
39 disposal of construction debris.

40
41 **End of Section**



Consultant:



■ email: info@retlax.com, website: www.retiller.com

✶ LIGHT POLE	✶ BURIED GAS
✶ POWER POLE	✶ BURIED TELEPHONE
⊙ GUY	✶ WATERMAIN
⊙ ELECTRIC METER	✶ FIBER OPTICS
⊙ ELECTRICAL BOX	✶ EDGE OF BITUMINOUS
⊙ ELECTRIC OUTLETS	✶ VENT PIPE
⊙ GAS METER	✶ BIRDHOUSE
⊙ GAS VALVE	✶ BASKETBALL HOOP
⊙ TELEPHONE PEDESTAL	✶ FLAG POLE
⊙ TELEPHONE MANHOLE	✶ SIGN
⊙ SANITARY MANHOLE	✶ DECIDUOUS TREE
⊙ WATER MANHOLE	✶ CONIFEROUS TREE
⊙ STORM MANHOLE	✶ BUSH/SHRUB
⊙ UTILITY MANHOLE	✶ CONTOUR LINE
⊙ CATCH BASIN	✶ PUMP EQUIPMENT
⊙ CATCH BASIN	✶ VERTICAL PIPE
⊙ CATCH BASIN	✶ BENCH
⊙ WATER VALVE	✶ ROCKS
⊙ HYDRANT	✶ CONTROL POINT
⊙ IRRIGATION BOX	✶ 3/4" IRON BAR FOUND
✶ MAILBOX	✶ 1" IRON PIPE FOUND
✶ BOLLARD	✶ 1-1/2" IRON PIPE FOUND
✶ FENCE	✶ 2" IRON PIPE FOUND
✶ SANITARY SEWER	✶ CHISELED 'X' FOUND
✶ STORM SEWER	
✶ POWER OVERHEAD	
✶ BURIED ELECTRIC	

THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE SURVEYOR AND ARCHITECT WILL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

SOME UTILITIES HAVE BEEN LOCATED BY MAPS PROVIDED BY OTHERS-LOCATIONS ARE APPROXIMATE.

FIELD VERIFY SANITARY AND STORM SEWER PIPE SIZES AND THEIR LOCATIONS

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE BASED IN PART ON
MARKINGS BY DIGGERS HOTLINE. (TICKET# 20241911068)

COM AT INTER OF S LI NE1/4 & E LI JOSSLYN ST; E ON S LI NE1/4 NE1/4 TO PT 560.9 FT
E OF SW COR LOT 1 N PAR TO W LI LOT 1, 523.1 FT E PAR TO S LI LOT 1 TO W LI
CAMPBELL RD NLY ON W LI CAMPBELL RD TO N LI LOT 1 W ON N LI LOT 1 TO PT 275 FT
E OF W LI LOT 1 S

PROJECT SITE ADDRESS:
426 JOSSLYN ST
OSHKOSH, WI 54902

ELEVATIONS BASED ON NAVD 88 USING WISGEOID 18.

BENCHMARK # 1
ARROW BOLT OF HYDRANT LOCATED SOUTH OF THE 1ST BASE DUGOUT

ELEVATION: 758.19

COORDINATE SYSTEM BASED ON: NAD83 (2011) WITH WINNEBAGO COUNTY
COORDINATES USING WISCORS

CP #3 - CP MAGNAIL
N: 475105.95
E: 786651.90
Z: 755.52

CP #10 - CP 60D NAIL
N: 474786.16
E: 786755.88
Z: 753.58

CP #5 - CP 60D NAIL
N: 474966.97
E: 786729.54
Z: 755.98

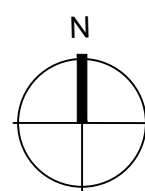
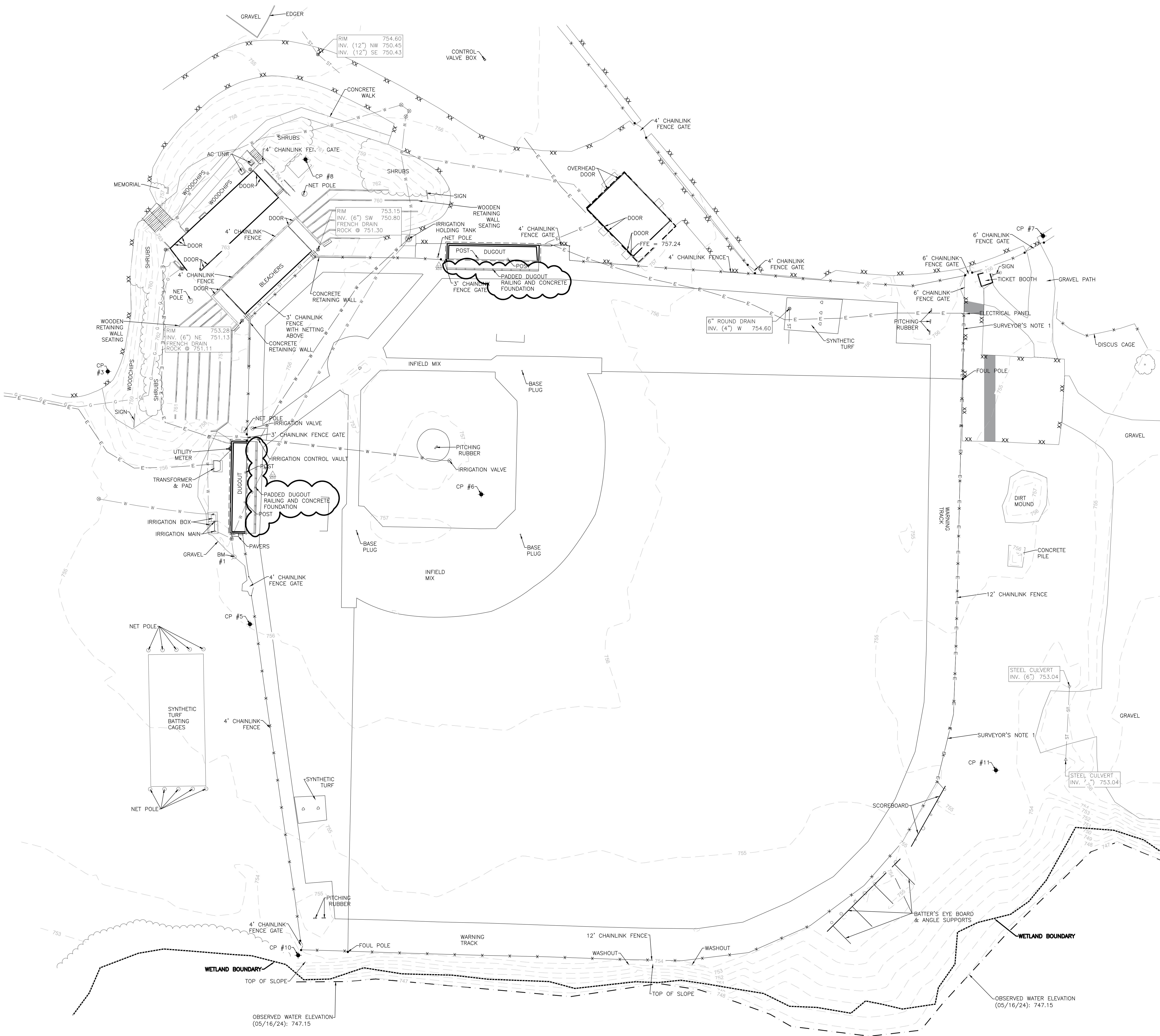
CP #11 - CP 60D NAIL
N: 474887.19
E: 787136.94
Z: 754.27

CP #6 - CP 60D NAIL
N: 475037.85
E: 786855.89
Z: 756.88

CP #7 - CP 60D NAIL
N: 475178.96
E: 787162.72
Z: 755.77

CP #8 - CP SCRIBE X
N: 475220.78
E: 786759.88
Z: 763.27

#1: ELECTRIC FEED TO SCOREBOARD IN THIS AREA IS IN A CONDUIT MOUNTED TO OUTFIELD FENCE

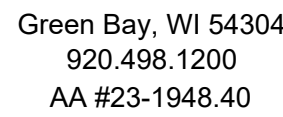


UWO Baseball Field Improvements
University of Wisconsin – Oshkosh
Oshkosh, Wisconsin

Sheet Title:
EXISTING SITE PLAN

[illegible]

Graphic Scale	
UWSA Number	F-25-001
Set Type	BD
Date Issued	07/23/2026
Sheet Number	C100



1. CONTRACTOR SHALL CONTACT DGBER'S HOTLINE 5 WORKING DAYS PRIOR TO START OF DEMOLITION/CONSTRUCTION.
2. A UTILITIES SHALL BE THE RESPONSIBLE FOR LOCATING PRIVATE UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
3. COORDINATE SITE CONSTRUCTION ACCESS WITH OWNER PRIOR TO START OF CONSTRUCTION.
4. CONTRACTOR SHALL STRIP AND STOCKPILE ALL TOPSOIL WITHIN THE PROJECT LIMITS AS NEEDED TO CONDUCT ALL CONSTRUCTION DETAILED IN THE PLANS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL ONLY REMOVE TREES AND VEGETATION WITHIN THE PROJECT LIMITS THAT INHIBIT CONSTRUCTION.
6. REMOVE ANY ABANDONED UTILITIES WITHIN THE PROJECT LIMITS THAT INHIBIT CONSTRUCTION.
7. ALL CONTRACTORS SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BIDDING DEADLINE. ANY DISCREPANCIES FOR AS-BUILT TO BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT FOR REVIEW IMMEDIATELY UPON DISCOVERY.
8. ALL ITEMS TO BE REMOVED AND DISPOSED OF SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
9. NOTIFY ALL REMOVAL AND SALVAGE ITEMS WITH THE OWNER.
10. ALL ITEMS TO BE SALVAGED SHALL BE DELIVERED TO THE OWNER. COORDINATE DELIVERY WITH OWNER.
11. ALL AREAS AND SITE FEATURES DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO THE ORIGINAL CONDITION.
12. ALL SITE ENTITIES OUTSIDE THE PROJECT LIMIT LINE SHALL NOT BE DISTURBED.

REMOVE EXISTING SYNTHETIC TURF & BASE STONE	
REMOVE EXISTING CONCRETE & BASE AGGREGATE	
REMOVE EXISTING ASPHALT & BASE AGGREGATE	
REMOVE EXISTING STONE, INFILL & WARNING TRACK MATERIAL	
CLEAR AND GRUB EXISTING VEGETATION	
SAW CUT EXISTING PAVEMENT	
REMOVE EXISTING FENCE AND GATES	
LIMITS OF CONSTRUCTION	

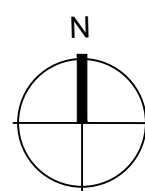
A	SITE CONSTRUCTION ACCESS
B	MAINTAIN AND PROTECT EXISTING HARD SURFACE
C	MAINTAIN AND PROTECT EXISTING BUILDING / DUGOUT AND FOUNDATIONS
D	MAINTAIN AND PROTECT BATTERS EYE BOARD AND FOUNDATIONS
E	MAINTAIN AND PROTECT EXISTING NET POLE, FOUNDATIONS, AND NETTING SYSTEM
F	REMOVE EXISTING BASEBALL FIELD EQUIPMENT CONFIRM ITEMS TO BE SALVAGED WITH OWNER
G	MAINTAIN AND PROTECT EXISTING RETAINING WALL
H	MAINTAIN AND PROTECT EXISTING CHAIN LINK FENCING AND GATES. WHERE EXISTING FENCE IS ADJACENT TO PROPOSED SYNTHETIC TURF: - REMOVE AND SALVAGE BOTTOM FENCE RAIL. REINSTALL BOTTOM FENCE RAIL AFTER SYNTHETIC TURF HAS BEEN INSTALLED - REMOVE OR FOLD UP EXISTING FENCE FABRIC AS NEEDED AND REINSTALL AFTER SYNTHETIC TURF IS INSTALLED. - REMOVE AND SALVAGE ALL EXISTING OUTFIELD FENCE WINDSCREEN. REINSTALL AFTER SYNTHETIC TURF IS INSTALLED
I	EXISTING ELECTRICAL UTILITY - SEE ELECTRICAL PLANS
J	REMOVE EXISTING CHAIN LINK FENCING AND GATES REMOVE AND SALVAGE ALL EXISTING OUTFIELD FENCE WINDSCREEN. REINSTALL AFTER SYNTHETIC TURF IS INSTALLED
K	MAINTAIN AND PROTECT EXISTING TURF AND BATTING CAGE
L	CUT AND REMOVE EXISTING FOUL POLE AT TOP RAIL OF EXISTING FENCE
M	REMOVE EXISTING CHAIN LINK FENCING - CUT FENCE POSTS FLUSH WITH TOP OF WALL. FILL POST HOLES FLUSH WITH NON SHRINK GROUT
N	MAINTAIN AND PROTECT EXISTING STORM SEWER UTILITY
O	REMOVE EXISTING STORM SEWER UTILITY
P	REMOVE / ABANDON ALL EXISTING IRRIGATION LINES, HEADS, VALVES, AND BOXES WITHIN FIELD CAP IRRIGATION SERVICE AT EDGE OF FIELD
Q	MAINTAIN AND PROTECT EXISTING BLEACHERS
R	MAINTAIN AND PROTECT EXISTING STAIRS
S	MAINTAIN AND PROTECT EXISTING WATER UTILITY. COORDINATE ALL IRRIGATION AND WATER REMOVALS WITH UW-OSHKOSH
T	MAINTAIN AND PROTECT EXISTING SCOREBOARD POSTS AND FOUNDATIONS SEE ELECTRICAL PLANS FOR SCOREBOARD DEMOLITION DETAILS
U	MAINTAIN AND PROTECT EXISTING DUGOUT RAILING AND FOUNDATION. SAW CUT EXISTING FOUNDATION AS NECESSARY TO ACCEPT SYNTHETIC TURF CURB NAILER.

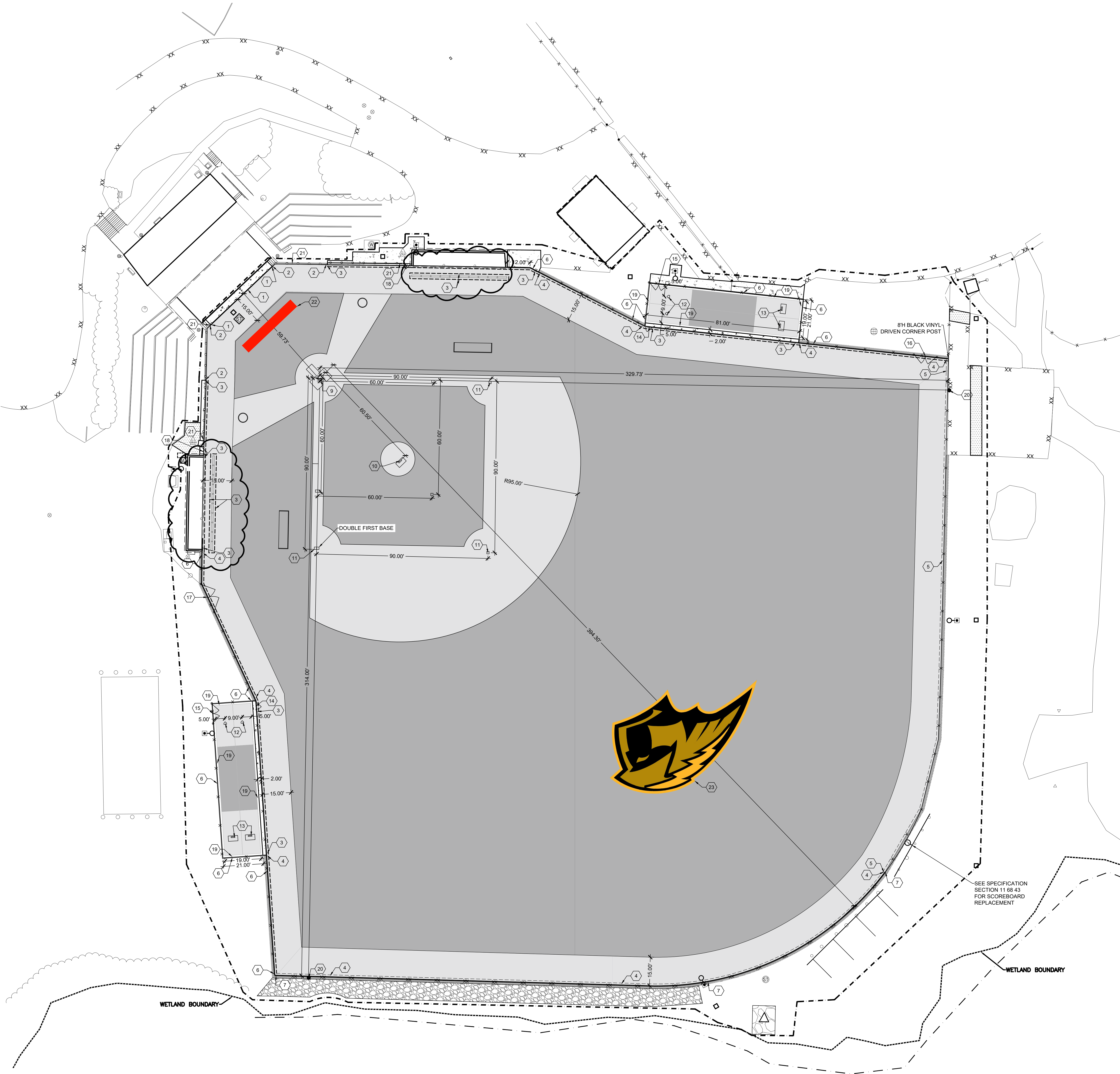
Sheet Title:
SITE DEMOLITION PLAN

Graphic Scale 0' 5' 10' 20' 30'

Date Issued	07/23/2026
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Sheet Number	C200
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SITE LAYOUT - GENERAL NOTES

1. ALL PROPOSED DIMENSIONS ARE REFERENCED PARALLEL OR PERPENDICULAR TO THE PROPOSED FEATURES SHOWN.
2. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE PROJECT MANAGER.
5. SEED, FERTILIZE, AND CRIMP MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS.
6. ALL PAVED SURFACES SHALL MEET ADA REQUIREMENTS. CONTRACTOR TO REMOVE AND REPLACE ANY NON CONFORMING PAVEMENT.
7. SHOWN SYNTHETIC TURF FIELD STRIPING IS FOR REFERENCE ONLY. ALL NECESSARY FIELD MARKINGS SHALL BE INCLUDED TO MEET NCAA DIVISION III BASEBALL STANDARDS.

SITE LAYOUT - LEGEND

SYNTHETIC TURF ATHLETIC FIELD (INFIELD/WARNING TRACK AREAS)

- 1.5" H SYNTHETIC TURF W/ 1.25" INFILL
- 2" FINISH DRAINAGE STONE
- 6" MIN. BASE DRAINAGE STONE
- TYPE SAS GEOTEXTILE FABRIC

SYNTHETIC TURF ATHLETIC FIELD (GRASS AREAS)

- 2" H SYNTHETIC TURF W/ 1.75" INFILL
- 2" FINISH DRAINAGE STONE
- 6" MIN. BASE DRAINAGE STONE
- TYPE SAS GEOTEXTILE FABRIC

3.5" HOT MIX ASPHALT
10" BASE AGGREGATE DENSE, 1 1/2" INCH

5" CONCRETE W/ SYNTHETIC FIBER REINFORCEMENT
6" BASE AGGREGATE DENSE, 3/4" INCH

MEDIUM RIPRAP SLOPE WITH TYPE HR FABRIC

MEDIUM RIPRAP ENDWALL WITH TYPE HR FABRIC

18" WIDE MAINTENANCE STRIP

8" H BLACK VINYL CHAIN LINK FENCING

12" H BLACK VINYL CHAIN LINK FENCING (SIZED FOR WINDSCREEN)

INTEGRATED WALL PAD BACKSTOP (SECURE EXISTING BACKSTOP NETTING TO TOP OF 36" WALL)

LIMITS OF CONSTRUCTION

(CONFIRM HEIGHTS OF SYNTHETIC TURF & INFILL MATERIAL W/ TURF CONTRACTOR)

SITE LAYOUT - KEY NOTES

- 1 THICKENED EDGE CONCRETE CURB AND NAILER
 - 2 WALL-MOUNTED TREATED 2X4 NAILER BOARD
 - 3 12" x 12" CONCRETE CURB AND NAILER: NAILER FLUSH WITH TOP OF CURB (ADJACENT TO PAVEMENT)
 - 4 12" x 12" CONCRETE CURB AND NAILER: TURF WRAPPED OVER NAILER (ADJACENT TO GRASS)
 - 5 12" x 12" CONCRETE CURB AND NAILER: TURF WRAPPED OVER NAILER (ADJACENT TO EXISTING FENCE)
 - 6 8" H BLACK VINYL CHAIN LINK FENCING
 - 7 12" H BLACK VINYL CHAIN LINK FENCING (SIZED FOR WINDSCREEN - WINDSCREEN BY OTHERS)
 - 8 NOT USED
 - 9 BATTER'S BOX FORMING SYSTEM
 - 10 SEASONAL PITCHING MOUND SYSTEM
 - 11 BASEBALL BASE WITH CONCRETE ANCHOR AND PLUGS
 - 12 DOUBLE FIRST BASE
 - 13 HOME PLATE FORMING SYSTEM
 - 14 BASEBALL PITCHING MOUND AND PITCHING PLATE ANCHOR
 - 15 8" H x 4" W BLACK VINYL CHAIN LINK FENCE GATE
 - 16 8" H x 10" W BLACK VINYL CHAIN LINK FENCE GATE
 - 17 8" H x 12" W BLACK VINYL CHAIN LINK FENCE GATE
 - 18 8" H x 16" W BLACK VINYL CHAIN LINK FENCE GATE
 - 19 4" H x 4" W BLACK VINYL CHAIN LINK FENCE GATE - APPROXIMATE WIDTH OF GATE IS 4'; FIELD VERIFY. - COORDINATE WITH A/E
 - 20 12" x 12" CONCRETE CURB AND NAILER: EXPOSED CURB (BULLPEN)
 - 21 30" H YELLOW BASEBALL FOLI ROLE
 - 22 INTEGRATED WALL PAD BACKSTOP (SECURE EXISTING BACKSTOP NETTING TO TOP OF 36" WALL)
 - 23 35'X5' BACKSTOP LOGO TBD
 - 24 91'X52' TITAN OUTFIELD LOGO
- NOTE: ALL PROPOSED FENCING TO INCLUDE FENCE GUARD

Revisions:		Description:	
No.	Date:		
1	09/01/2026	Addendum #1	

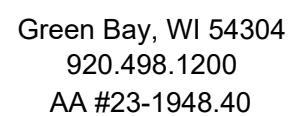
Graphic Scale: 0' 5' 10' 20' 30'

UWSA Number: F-25-001

Set Type: BD

Date Issued: 07/23/2026

Sheet Number: C300



2. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE PROJECT MANAGER.
3. FINISH GRADE (FG) IS THE TOP OF THE SYNTHETIC TURF INFILL.
4. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT EROSION CONTROL INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
5. THE SITE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL ELEMENTS IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES AND THE LOCAL GOVERNING AUTHORITIES REGULATIONS.
6. PLACE INLET PROTECTION UNDER THE PROPOSED AND EXISTING CATCH BASINS, MANHOLES, AND INLETS GRATES FOR THE DURATION OF CONSTRUCTION.
7. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
8. ALL STABLE DRAINAGE AREAS SHALL BE PROTECTED BY THE USE OF EROSION CONTROL METHODS AFTER GRADING. TEMPORARY SEED SHALL BE PLACED IN ACCORDANCE WITH SECTION 630 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
9. INSPECT ALL EROSION CONTROL ELEMENTS WEEKLY OR AFTER STORM EVENTS OF 1/2" OF RAIN OR MORE TO BE DISSENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES.
10. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LEFT INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILIZED BY SEEDING OR COVERING WITH OTHER METHODS APPROVED BY THE LOCAL GOVERNING AUTHORITY'S EROSION CONTROL INSPECTOR.
11. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.
12. ALL STORM DRAINAGE SYSTEMS SHALL BE PROTECTED BY THE USE OF EROSION CONTROL. TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS.
13. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED.
14. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILIZATION OF DISTURBED SOIL HAS OCCURRED.
15. ALL WASTE AND UNUSED BUILDING MATERIALS SHALL BE PROPERLY DISPOSED OF AND NOT REUSED OR BE CARRIED OFF SITE BY RULING.
16. SEED / FERTILIZE / AND CRIMP MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS AND WITHIN 3 WORKING DAYS OF FINAL GRADING.
17. ALL PLANTING MATERIAL SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF GRASS IS ESTABLISHED IN ALL GENERAL LANDSCAPE AREAS, AND THEN REMOVED BY THE SITE CONTRACTOR.
18. IN THE CASE OF LAKE SEASON ANNUAL CONSTRUCTION, RESTORATION/LANDSCAPING OF THE SITE SHALL BE COMPLETED BY THE END OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATING SHALL BE REMOVED AS SOON AS FREEZING WEATHER OCCURS SO DRAINAGE IS NOT IMPAIRED THROUGHOUT THE WINTER MONTHS. ALL EXCESSIVE DEBRIS AND MATERIALS SHALL BE REMOVED PRIOR TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE THAW.

PROPOSED CONTOURS

EXISTING CONTOURS

PROPOSED SPOT ELEVATION

MATCH EXISTING SPOT ELEVATION

PROPOSED TOP OF CURB ELEVATION

PROPOSED FINISH GRADE AT BOTTOM OF CURB

TOP OF WALL ELEVATION

TOP BACK OF WALL ELEVATION

PROPOSED ENDWALL INVERT ELEVATION

PROPOSED RIM ELEVATION

CONCRETE FLUME FLOWLINE ELEVATION

TEMPORARY TRACKING PAD

CONCRETE WASHOUT AREA

INLET PROTECTION

SILT FENCE

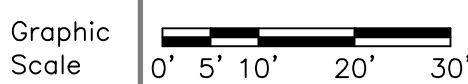
EROSION MAT
CLASS I TYPE A

SILT FENCE OUTLET

LIMITS OF CONSTRUCTION

NOTE: SYNTHETIC TURF SUBGRADE SHALL BE SLOPED AT 0.50% TOWARDS STORM PIPE. BASE STONE SHALL BE 6" DEEP MIN. BASE STONE DEPTH SHALL EXCEED 6" AS REQUIRED TO ACHIEVE FINISH GRADE AND 0.50% SUBGRADE SLOPE.

-WETLAND BOUNDARY



Set BD

155555	
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Sheet
Number

C400

Consultant:

RETTLER
corporation

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E: email@rettlr.com W: www.rettlr.com

SITE UTILITY - GENERAL NOTES

- ANY EXISTING UTILITIES NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BID.
- ANY EXISTING UTILITIES THAT ARE TO REMAIN BUT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN KIND BY THE CONTRACTOR AND SHALL BE INCLUDED AS PART OF THE BASE BID.
- SITE UTILITY CONTRACTOR SHALL VERIFY ALL EXISTING STORM SEWER RIM AND INVERT ELEVATIONS WHERE THE PROPOSED STORM SEWER IS DESIGNED TO CONNECT TO EXISTING STORM SEWER PRIOR TO CONSTRUCTION.
- COORDINATE ALL UTILITY RELOCATION WITH THE PROPER UTILITY COMPANY.
- ALL PAVEMENT DISTURBED BY PROPOSED UTILITIES SHALL BE RESTORED IN KIND BY THE CONTRACTOR AND SHALL BE INCLUDED AS PART OF THE BASE BID.
- PROVIDE A COMPLETE TRACER WIRE SYSTEM ON ALL NON-METALLIC UTILITY PIPING SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WISCONSIN PLUMBING CODE AND DETAILS CONTAINED IN THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. PROVIDE ACCESS TO TRACER WIRE IN ALL MANHOLES & INLETS. SPLICE TRACER WIRE AS NECESSARY.
- PIPE LENGTHS INCLUDE THE RADIUS OF THE STRUCTURE.

SITE UTILITY - LEGEND

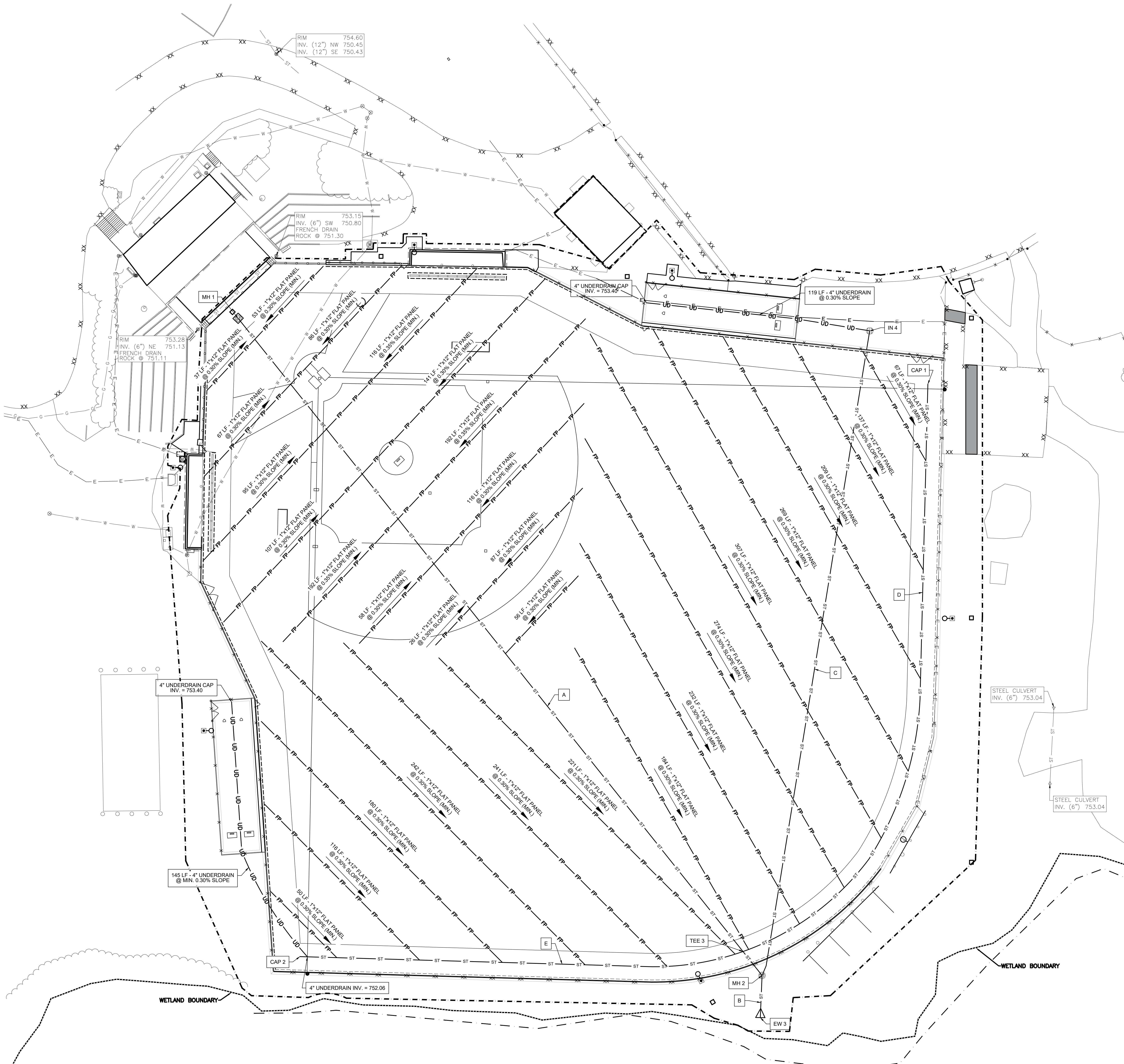
STORM PIPE	ST	1 C604
1"x12" FLAT PANEL DRAIN W/ SOCK	FP	2 C604
4" PERFORATED UNDERDRAIN	UD	
STORM STRUCTURE NUMBER	ST MH 1	
STORM PIPE ID	A	
STORM SEWER STRUCTURE	S	3-6 C604
LIMITS OF CONSTRUCTION	- - -	

STORM PIPE SCHEDULE

	FROM	TO			PIPE	PIPE
PIPE ID	STRUCTURE	STRUCTURE	LENGTH	SLOPE	SIZE	MTL
A	MH 1	MH 2	444	0.30%	12	PERF. HDPE
B	MH 2	EW 3	22	1.81%	24	HDPE
C	IN 4	MH 2	346	0.50%	15	HDPE
D	CAP 1	TEE 3	340	0.30%	12	PERF. HDPE
E	CAP 2	TEE 3	235	0.30%	12	PERF. HDPE

STORM STRUCTURE SCHEDULE

MH 1	MH 2	EW 3
RIM 754.79	RIM 754.50	18" INV. 749.40
12" INV. (SE) 751.83	24" INV. (S) 749.80	18" METAL ENDWALL WITH TRASH GUARD
DEPTH 3.16	12" INV. (NW) 750.30	15" INV. (NE) 750.30
18" PVC BASIN	DEPTH 4.70	- SEE DETAIL 7/604
SOLID LID	48"X48" CUSTOM TURF ACCESS BOX	48"X48" CONCRETE STRUCTURE
ACCESS BOX TO ALSO HOUSE QUAZITE PULL BOX	NEENAH R-1889 W/ TYPE B LID	
IN 4	CAP 2	TEE 3
RIM 754.40	12" INV. 751.06	12" INV. 750.35
15" INV. (SE) 752.03		
4" INV. (NW) 753.03		
DEPTH 2.57		
18" PVC BASIN WITH STANDARD GRATE		
CAP 1		
12" INV. 751.37		



UWO Baseball Field Improvements
University of Wisconsin – Oshkosh
Oshkosh, Wisconsin

Sheet Title:
SITE UTILITY PLAN

Revisions:

No.	Date:	Description:
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1 08/21/2026 Addendum #1

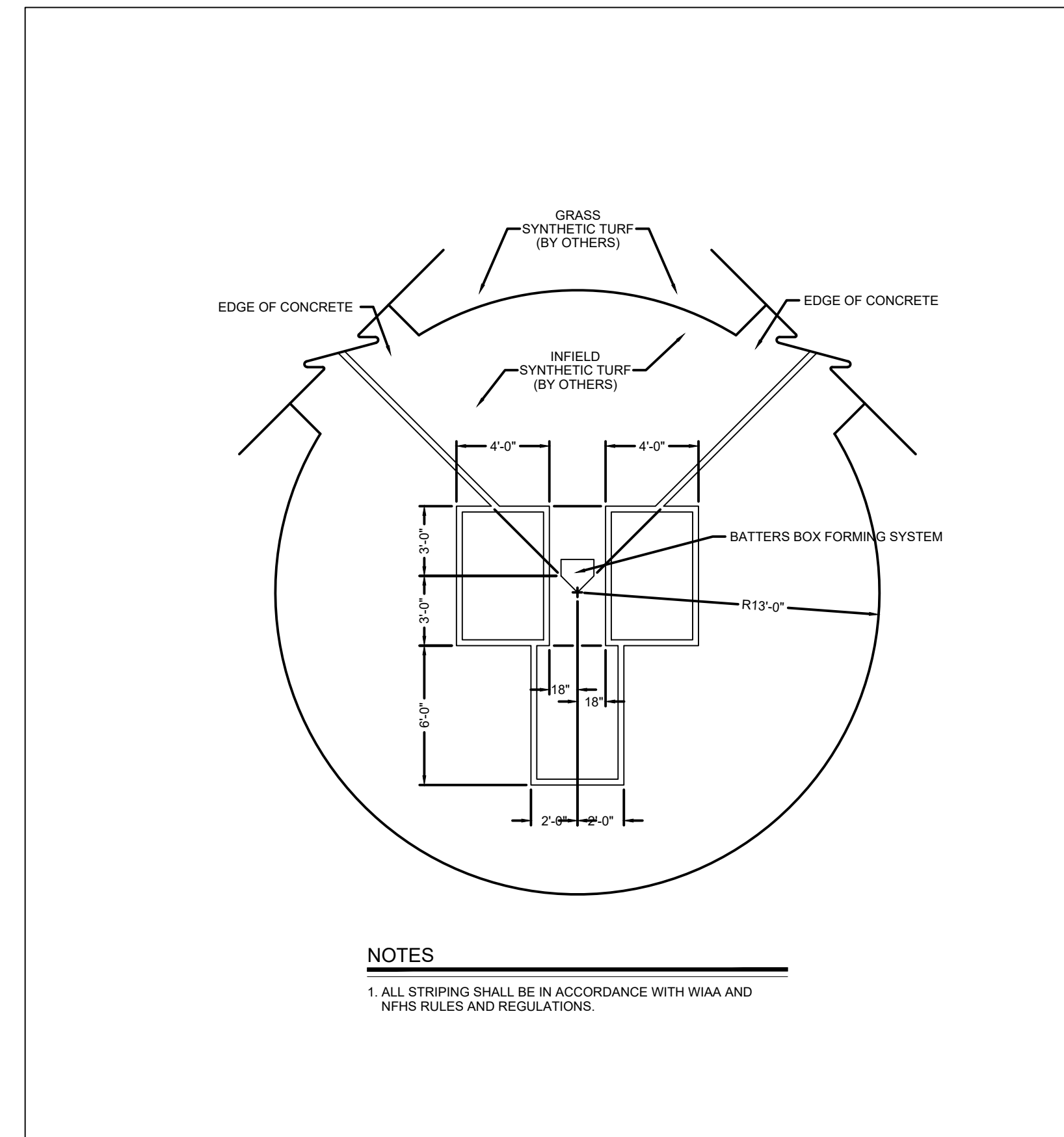
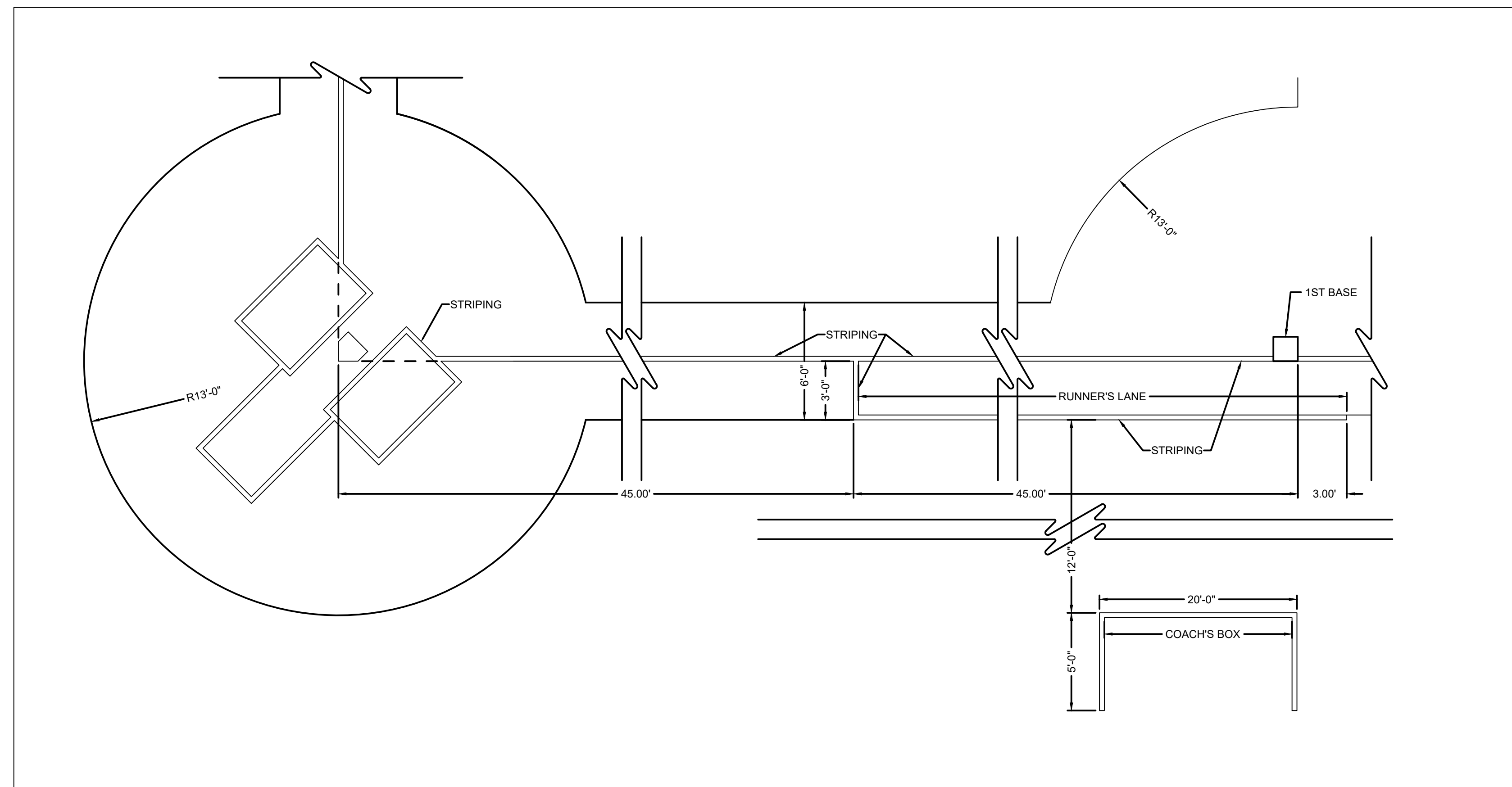
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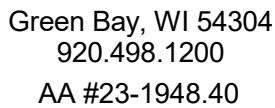
Date Issued: 07/23/2026

Sheet Number: C500



3. NOT USED

[illegible]



**UWO Baseb
University of
Oshkosh, W**

Sheet Title:
ELECTRICAL SITE PLAN

- A. ITEMS ARE PROVIDED BY CONTRACTOR UNLESS STATED OTHERWISE.
- B. MATERIALS, PRODUCTS, DEVICES, FIXTURES, FORMS OR TYPES OF CONSTRUCTION INCLUDED IN THESE DRAWINGS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE(NEC), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE), AND NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA). CONTRACTOR TO FOLLOW THE NEC 2023 CODE.
- C. MATERIALS SHALL BE LISTED AND APPROVED BY A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY AS CONFORMING TO THEIR STANDARDS
- D. WORK SHALL COMPLY WITH APPLICABLE NATIONAL AND STATE AND LOCAL BUILDING CODES.
- E. INSULATIONS SHALL CONFORM TO ICEA-NEMA AND NATIONAL ELECTRICAL CODE STANDARDS AND SPECIFICATIONS. CURRENT CODE IS NEC 2023.
- F. CONDUIT INDICATED SHALL BE SCHEDULE 40 PVC, DIRECT BURIED AT A MINIMUM OF 24" BELOW FINISHED GRADE. CONDUIT EMERGING FROM GRADE SHALL BE 18" ABOVE FINISHED GRADE. CONDUIT RACE PER IFEC SPEC SECTION 26 05 33, CAPPED AND MARKED FOR FUTURE CONNECTION BY OTHERS UNDER A LATER PHASE.
- G. PROVIDE FIELD VERIFY LOCATIONS AND INFORMATION FOR ALL EXISTING PUBLIC AND PRIVATE UTILITIES. COORDINATE ALL NEW UNDERGROUND CONDUIT WITH EXISTING UNDERGROUND UTILITIES. FIELD ADJUST ROUTING AS REQUIRED TO AVOID CLOSURES. MAINTAIN A MINIMUM OF 240 DEGREE BENDS BETWEEN HANDOLVES. LIGHT FIXTURES, AND PANELBOARD SHALL BE INSTALLED TO THE RIGHT OF THE CONDUIT ROUTING.
- H. ACTUAL CONDUIT ROUTE MAY VARY FROM WHAT IS SHOWN ON PLAN DUE TO SITE CONDITIONS/CONSTRAINTS
- I. RIGID METAL CONDUIT (RMC) WITH LONG SWEEP ELBOWS SHALL BE PROVIDED FROM THE BOTTOM OF THE TRENCH TO ALL ABOVE-GRADE CONNECTIONS.
- J. PROVIDE ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: OBTAINING & PAYING FOR ELECTRICAL PERMIT(S), COORDINATING INSTALLATION OF WORK FROM THE MAIN PANEL TO LIGHTING, RESTROOM FACILITY, AND FINAL CONNECTION OF THE WORK TO THE MAIN ELECTRICAL PANEL. INSPECTOR APPROVAL FROM THE ELECTRICAL INSPECTOR AND COMPLETE TESTING OF THE ENTIRE ELECTRICAL SYSTEM INSTALLATION.
- K. PROVIDE DOCUMENTATION OF APPROVALS TO OWNER.
- L. PROVIDE RECORD DRAWINGS AND O&M MANUALS PER PROJECT SPECIFICATIONS.
- M. PROVIDE UNDERGROUND WARNING TAPE OVER ALL UNDERGROUND CONDUIT INSTALLED 12" BELOW FINISHED GRADE.
- N. COORDINATE FINAL CONDUIT ROUTING IN THE FIELD TO AVOID EXISTING OBSTRUCTIONS, UTILITIES AND TREE ROOTS.

1. PROVIDE UNDERGROUND CONDUIT SUB-UP, CAPPED, AT THIS LOCATION FOR FUTURE 80 FT TALL SITE POLE AND CONCRETE BASE. 80 FT TALL UNDERGROUND CONDUIT SHALL BE 12" MIN. CONDUIT SHALL NOT EXTEND MORE THAN 14" INCH ABOVE FINISHED GRADE TO AVOID CREATING A TRIP HAZARD. LUMINAIRE TYPE AND QUANTITY TO BE DETERMINED BY THE FULLY LICENSED ELECTRICAL ENGINEER.
2. PROVIDE NEW HANDHOLE 18" x 18" x 24". TIER 22 HANDHOLE MUST BE SUPPORTED TO PREVENT SINKING; HANDHOLES BURIED DIRECTLY INTO SOFT GROUND SHALL BE SUPPORTED BY 2" MIN. POLYMER CONCRETE LID MARKED "ELECTRIC". SEE DETAIL 2'00/01.
3. REFER TO DETAIL 1, 01 E001 FOR DIRECT BURIAL CONDUIT DETAILS. PROVIDE CONDUIT SLEEVES IN AREAS WHERE ASPHALT AND HARD SURFACES ARE ENCOUNTERED.
4. PROVIDE CONDUIT SUB-UPS, CAPPED, AT THIS LOCATION FOR FUTURE CONTROL PANEL. ALL CONDUITS SHALL ORIGINATE FROM THE CONDUIT SUB-UP AND BE ROUTED TO THE RESPECTIVE DESTINATIONS. CAPPED CONDUITS SHALL NOT EXTEND MORE THAN 14" INCH ABOVE FINISHED GRADE TO AVOID CREATING A TRIP HAZARD.
5. PROVIDE NEW DEDICATED 120V/240V BRANCH CIRCUIT FROM THE GROUNDS BUILDING PANEL, TO THE NEW SCOREBOARD, ROUTED AS SHOWN. PROVIDE GROUND ROD AT THE SCOREBOARD BONDED TO THE GROUNDING SYSTEM. THE NEW SCOREBOARD SHALL BE GROUND. SCOREBOARD CONTROL IS WIRELESS. REMOVE EXISTING SCOREBOARD BRANCH CIRCUIT TO THE NEW SCOREBOARD TO POINTS OF ORIGIN. EXISTING SCOREBOARD DISCONNECT, ENCLOSURES, AND PULL BOXES TO REMAIN AND BE REUSED FOR THE NEW CIRCUIT WITH THE NEW SCOREBOARD. REPAIR AND REUSE EXISTING CONDUIT. SEE DETAIL 2'00/01. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.
6. MAINTAIN EXISTING CONDUIT SURFACE MOUNTED ON THE OUTFIELD FENCE DESIGNATED TO REMAIN.
7. REMOVE AND REPLACE EXISTING SCOREBOARD, STRUCTURAL SUPPORT SYSTEM SHOWN IN PLACE. NEW SCOREBOARD SHALL BE MOUNTED ON THE EXISTING STRUCTURAL SUPPORT SYSTEM. SEE SPECIFICATION SECTION 16-04.3 ELECTRICAL. PROVIDE NEW BRANCH CIRCUIT TO THE NEW SCOREBOARD.
8. PROVIDE NEW HANDHOLE 18" x 18" x 24". TIER 22, WITH SYNTHETIC TRIP ACCESS BOX. HANDHOLE MUST BE SUPPORTED TO PREVENT SINKING. HANDHOLES BURIED DIRECTLY INTO SOFT GROUND SHALL BE SUPPORTED. PROVIDE POLYMER CONCRETE LID MARKED "ELECTRIC". SEE DETAIL 2'00/01.
9. REINSTATE THE EXISTING UNDERGROUND LINES AND PROVIDE NEW CONDUIT AT 24" MINIMUM DEPTH ROUTED AS SHOWN AND SPlice TO THE EXISTING CONDUIT. PROVIDE NEW CONDUIT TO THE NEW SCOREBOARD. PROVIDE NEW #8 AWG CONDUCTORS WITH #8 AWG GROUND FROM THE PANEL TO THE SCOREBOARD FOR THE FULL LENGTH OF THE RUN. CONDUCTORS SHALL BE CONTINUOUS WITH NO SPICES UNDERGROUND.

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