AIA® Document G710™ – 2017

Architect's Supplemental Instructions

PROJECT: *(name and address)*
CN Catoosa Child Development Center

CONTRACT INFORMATION:
Contract For: General Construction
Date: 08/16/2024

ASI INFORMATION:
ASI Number: 002
Date: 03/25/2025

OWNER: *(name and address)*
Cherokee Nation
17675 S. Muskogee Ave.
Tahlequah, OK 74464

ARCHITECT: *(name and address)*
Blue River Architects, LLC
320 South Boston Ave., Suite 103
Tulsa, OK 74103

CONTRACTOR: *(name and address)*
Maska Builders
555 N. Elm St.
Jenks, OK 74037

The Contractor shall carry out the Work in accordance with the following supplemental instructions without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.
(Insert a detailed description of the Architect's supplemental instructions and, if applicable, attach or reference specific exhibits.)
-Section 11 6833 Athletic Field Netting System
-Section 00 3100 Available Project Information
- Ball Trajectory/ Netting Plan

ISSUED BY THE ARCHITECT:

Blue River Architects
ARCHITECT *(Firm name)*

SIGNATURE

Chris Seat, AIA
PRINTED NAME AND TITLE

03/25/2025
DATE

SECTION 00 3100
AVAILABLE PROJECT INFORMATION

PART 1 GENERAL

1.01 EXISTING CONDITIONS

A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information, but are not a warranty of existing conditions, interpretations, or recommendations. This Document and all attachments are not part of the Contract Documents.

B. Certain information relating to existing surface and subsurface conditions and structures is available to bidders but will not be part of Contract Documents, as follows:

C. Site Survey: Entitled Topographical Survey, dated 09/21/23.
   1. Prepared by: Wallace Design Collective
   2. Reference copy is indicated on Civil Drawings.

D. Geotechnical Report: Entitled REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION CHEROKEE NATION CHILD DEVELOPMENT CENTER CATOOSA, OKLAHOMA , dated March 05, 2024.
   1. Prepared by: Building & Earth
      a. This report identifies properties of below grade conditions and offers recommendations for the design of foundations, prepared primarily for the use of Architect.
      b. The recommendations described shall not be construed as a requirement of this Contract, unless specifically referenced in Contract Documents.
      c. This report, by its nature, cannot reveal all conditions that exist on the site. Should subsurface conditions be found to vary substantially from this report, changes in the design and construction of foundations will be made, with resulting credits or expenditures to the Contract Sum accruing to Owner.
      d. Contractor is expected to examine the site and all geotechnical data and investigation reports and then decide for himself the character of the materials to be encountered. Contractor shall employ a consultant qualified to interpret the geotechnical data and investigation reports if the Contractor does not feel qualified to interpret any part of the geotechnical data and investigation reports.
      e. The Owner, Tenant, Architect, and Architect's Consultants disclaim any responsibility for the accuracy, true location and extent of the geotechnical data and investigation reports that have been prepared by others. They further disclaim responsibility for interpretations and recommendations related to that data by Bidders, such as, but not limited to, predicting soils bearing values or the depth to soils bearing materials, rock profiles or hardness, soils stability and the presence, level and extent of underground water.

E. CNIT Network Construction Standards Manual, dated 02/06/2024 Ver. 1.

F. Cherokee Nation Finish Hardware Standards for New Construction and Renovations., dated August 2023

G. Ball Trajectory/Netting Plan, dated November 13, 2024
   1. Prepared by Tanner Consulting Group

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

3.01 OBTAINMENT OF PERMITS

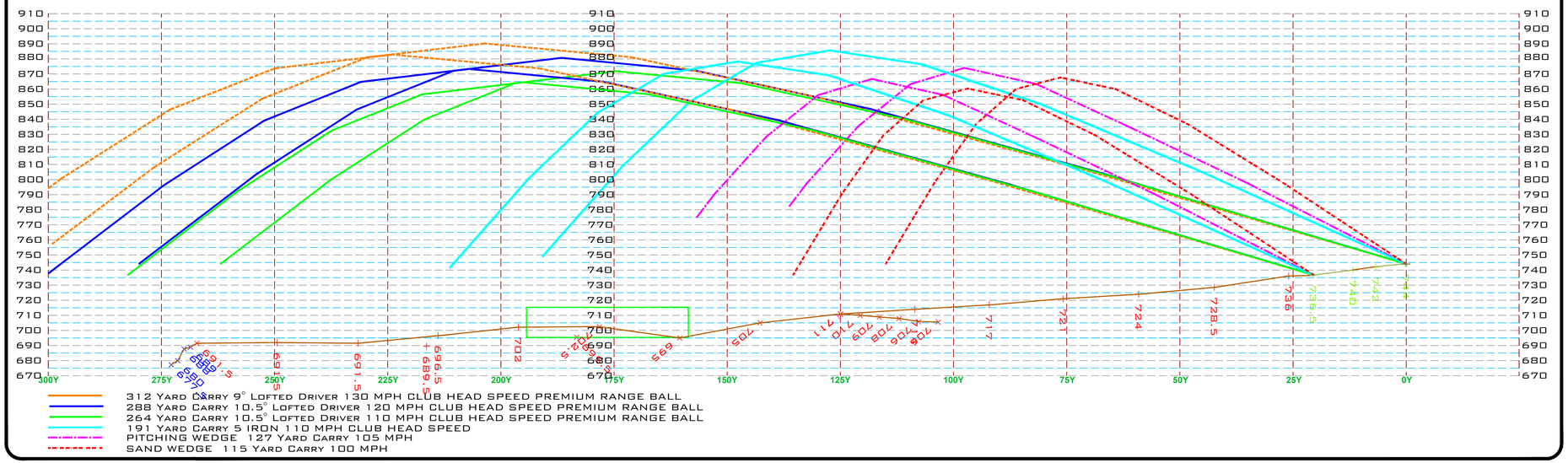
A. Contractor to obtain the following required permits, at no cost to Owner:
   1. Building Permit for all trades.

B. Building Permit Procedures: When required to obtain this permit:
   1. Complete and file permit application(s) with appropriate agency.
      a. Submit application within five days of the Notice to Proceed.
   2. Pay required fees.
   3. Provide expediting services, either directly or by hiring a firm specializing in these kind of services.
   4. Advise Architect if submission of modified documents is necessary to have the authorities having jurisdiction complete the plan review and approval process. Submit modified documents expeditiously.
   5. Do not commence execution of any item of work for which a permit has not been obtained.

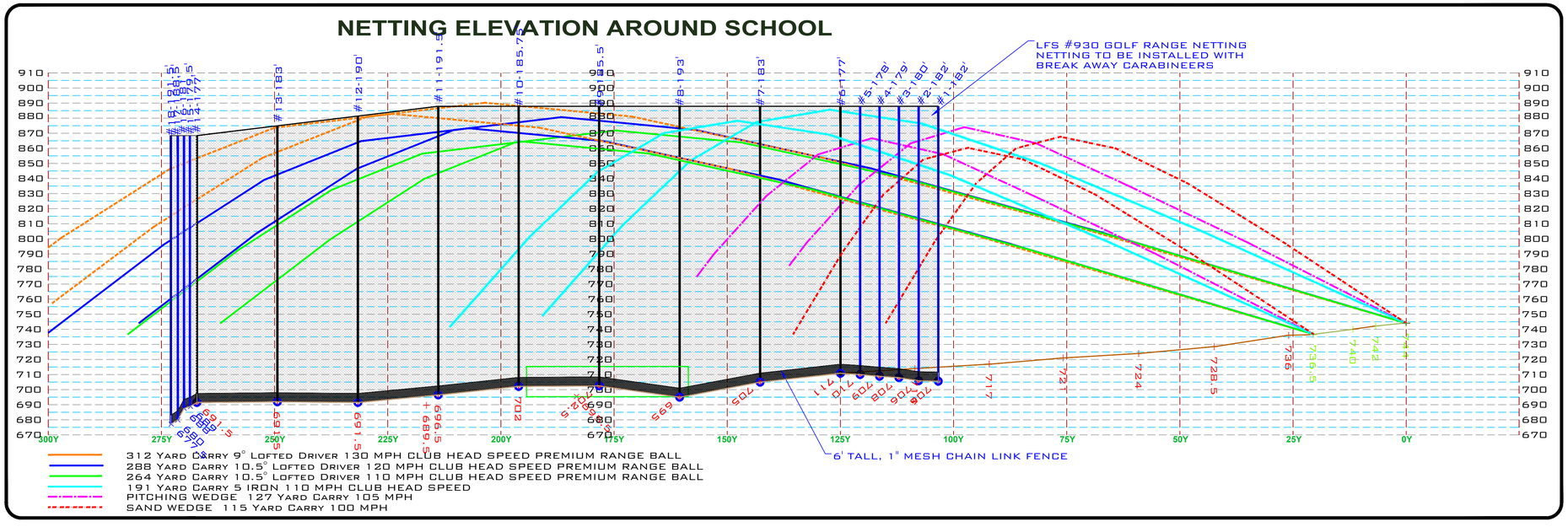
END OF SECTION

BALL TRAJECTORY/NETTING PLAN

BALL TRAJECTORY ELEVATION AROUND SCHOOL



NETTING ELEVATION AROUND SCHOOL



DESIGN TRAJECTORY

The USGA tests golf equipment to determine if it conforms to certain specifications relating to the speed with which golf ball leaves the face of a driver. Their testing equipment uses a club-head speed of 109 MPH. However, it is important to note it is possible for a person to swing with faster speeds (for example: Professional Golf level driver swing speed has been measured 130 +-MPH). This trajectory design uses a swing speed for the Driver of 110, 130 MPH in an effort to model a swing by a strong male golfer to achieve a 264.0, 288.0, 312.0 yard carries using a Premium Range Ball.

For the purpose of this study, this illustration prepared by Tanner Consulting Group depicts the path of a Premium Range Ball hit with a 9° and10.5° degree lofted driver. Additionally, it assumes the ball was struck in the middle of the club-face that was square to a correct alignment at impact. There is no guarantee that a golfer will be proficient enough to mimic the exact swing conditions to generate this ideal result. If a golf ball is struck with less power and/or accuracy than modeled above, the flight will not be nearly as straight or as far as shown. In addition, it is quite possible that a golfer can exceed the swing speed modeled in this ball trajectory. This can happen when a golfer uses a higher lofted club and/or a taller tee. These factors can increase the height and distance of the ball flight.

Also, if a golfer maliciously or purposely attempts to exceed the netting height, they may exceed the height of the netting and balls will exit the facility. Golfers must be responsible for using the facility as it is intended and in a safe and responsible manner. Site management should provide proper supervision and marshalling.

The equipment mentioned is specific. New technology is constantly improving golf equipment and with that fact, players will have an increased ability to hit the ball further and higher. For this reason Tanner Consulting Group recommends that the facility has structural engineering allowing for increasing the pole heights of the netting system if needed in the future. A minimum recommendation to consider would be the ability to increase the pole height and netting by 10%.

Tanner Consulting Group Disclaimer: Given the unlimited number of variables in the sport of golf, there is no way to guarantee 100% containment of golf balls with any netting installation. The design provided will help to reduce wayward golf shots from exiting the property and is consistent with other netting designs utilized in the golf industry.

Tanner Consulting Group is not responsible for golf balls that ricochet off poles, equipment or any other object on or near the facility.

Golf Club Driver: CALLAWAY EPIC FLASH 9°-10.5° LOFT
Tee Height: MAXIMUM .75" ABOVE THE TURF
Golf Ball: Premium Range Ball

FOR THE PURPOSE OF THIS STUDY, OUR ILLUSTRATION SHOW THE BALL HEIGHT AND DISTANCEHIT BY A SPECIFIC CLUB, BALL AND SWING SPEED. THESE ARE ALL SHOTS THAT ARE HIT STRAIGHT AND CORRECT. THERE IS NO GUARANTY THAT A GOLFER WILL HIT AT THIS SAME SPEED OR ANGLE. IF A GOLF SHOT IS MIS-HIT IT WILL USUALLY NOT TRAVEL AS FAR OR STRAIGHT. FOR THIS REASON, OUR STUDY REFLECTS WHAT WE DETERMINE TO BE A "WORSE CASE SCENARIO WITH THE DETAILED INFORMATION". THE GOLF CLUB WAS SELECTED BY POPULARITY.

CONTRACTOR MUST VERIFY SETBACKS, PROPERTY LINES AND ALLOWABLE BUILDING HEIGHTS BEFORE BUILDING THE RECOMMENDED NETTING. DRAWINGS ARE DIAGRAMMATIC AND ALL DIMENSIONS AND ELEVATIONS MUST BE VERIFIED.

TANNER CONSULTING GROUP
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Valley Springs, CA 95252
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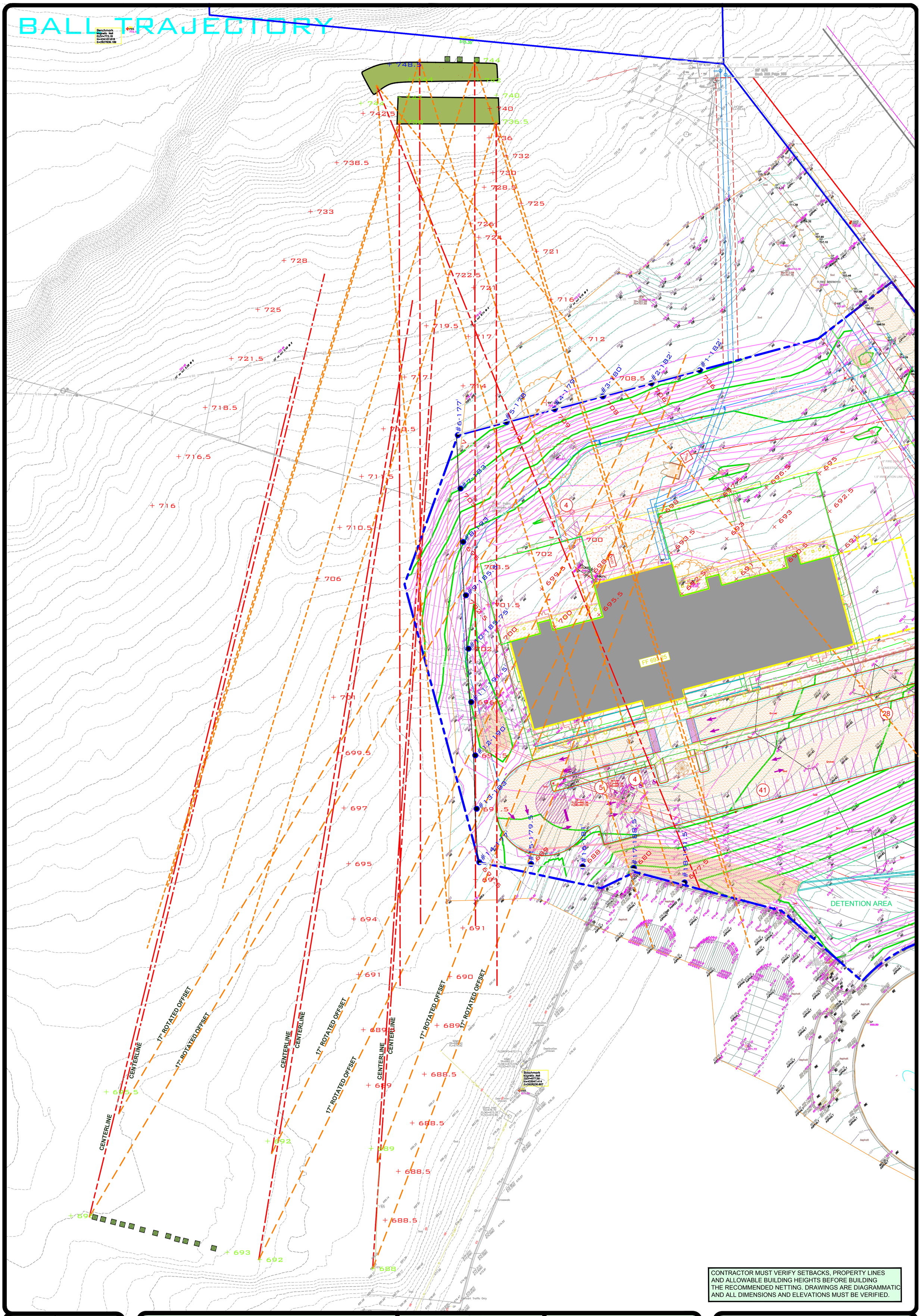
BALL TRAJECTORY/
NETTING PLAN

CHEROKEE HILLS GOLF CLUB
DRIVING RANGE
770 W. CHEROKEE STREET
CATOOSA, OK 74015

DRAWN	DT
CHECKED	
DATE	NOVEMBER 13, 2024
SCALE	1" = 40'
JOB No.	r-5
SHEET NAME	N-3

BALL TRAJECTORY



CONTRACTOR MUST VERIFY SETBACKS, PROPERTY LINES AND ALLOWABLE BUILDING HEIGHTS BEFORE BUILDING THE RECOMMENDED NETTING. DRAWINGS ARE DIAGRAMMATIC AND ALL DIMENSIONS AND ELEVATIONS MUST BE VERIFIED.

SHEET NAME	N-4
DRAWN	DT
CHECKED	
DATE	NOVEMBER 13, 2024
SCALE	1" - 40'
JOB No.	r-5

CHEROKEE HILLS GOLF CLUB

DRIVING RANGE

770 W. CHEROKEE STREET

CATOOSA, OK 74015

BALL TRAJECTORY

TANNER CONSULTING GROUP

603 Stanford Ct. Valley Springs, CA 95252

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CHEROKEE HILLS GOLF CLUB

DRIVING RANGE

N-5 r-5

CHEROKEE HILLS GOLF CLUB

DRIVING RANGE

N-6 r-5

SECTION 11 6833
ATHLETIC FIELD NETTING SYSTEM

PART 1 GENERAL

1.01 WORK INCLUDED

A. Provide equipment and materials, and perform work necessary to furnish and install the Netting System as indicated on the Drawings and as specified herein.
   1. Golf Netting System
      a. Work includes the design, engineering, and installation of all system components required for system to function properly including but not limited to netting, attachments, poles, and foundations.

1.02 RELATED SECTIONS

A. 00 3100 Available Project Information
   1. Geotechnical Report
   2. Ball Trajectory/ Netting Plan Study by Tanner Consulting Group, dated 11/13/2024

B. 03 3000 Cast-in-Place Concrete

C. 31 2001 Structural Earth Moving

1.03 REFERENCES

A. Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern.
   1. International Association of Athletics Federations (IAAF)
   2. American Sports Builders Association (ASBA)
   3. Manufacturers Data and Recommended Installation Requirements

1.04 SUBMITTALS

A. Manufacturer's Product Data
   1. Provide manufacturer's product data for review prior to actual field installation work.

B. Color samples of manufacturer’s full color range of finishes for review and approval.

C. Shop Drawings
   1. Provide drawings of the manufacturer's installation and foundation requirements for review prior to field installation work.
   2. Drawings shall be stamped and sealed by a Licensed Professional Engineer of Record in the State of Project Location.

1.05 QUALITY ASSURANCE

A. Manufacturer's warranties shall be submitted and certification made that the product materials meet applicable grade trademarks and conform to industry standards and inspection requirements. The Manufacturer shall have a current American Sports Builders Association (ASBA) Supplier Certificate of Distinction designation.

B. Installer to be a licensed contractor for specified work

C. Installer to have a minimum of three (3) projects of similar size and scope

1.06 PRODUCT DELIVERY AND STORAGE

A. Materials delivered to the site shall be examined for damage or defects in shipping. Any defects shall be noted and reported to the Architect. Replacements shall be immediately re-ordered, so as to minimize any conflict with the construction schedule. Sound materials shall be stored above ground under protective cover or indoors so as to provide proper protection.

PART 2 PRODUCTS

2.01 NETTING SYSTEM

A. By LFS Sports & Industrial Netting or Approved equal

B. Components:
    1. Netting
        a. Netting Component
            1) #930, LFS Knotless polyester netting; 1" mesh size
            2) Long stitch knotless join
            3) U.V. treated yarn
            4) Resin dye and bonding treatment
            5) 116.7 lb. Average single mesh break strength
            6) Weight factor: 40.0 square feet = 1-lb.
        b. Attachment Twine / Hanging Twine
            1) #48 Braided polyester twine
            2) 375 lb. Tensile strength
            3) Dye treated
        c. Perimeter Border Ropes & Riblines
            1) Braided synthetic cover
            2) Parallel synthetic core
            3) 3,500 lb. Tensile strength
            4) 2,455 Wet abrasion cycles
        d. Accessories
            1) RS3 Breakaway Carabiners
    2. Cable
        a. 6x19 Galvanized wire rope
            1) 3/8" diameter - horizontal and vertical cables

2.02 POLES

A. Per engineering specifications for pipe diameter and wall thickness.

B. Paint
    1. Properly prepare pipe prior to coating and painting
    2. Carboline Carbozinc or Approved equal

2.03 CHAIN LINK

A. 48" tall chain link to be provided along bottom of structure for the entire length of the system

B. 11 gauge, vinyl coated finish, fused and bonded – 8 guage wire core chain link mesh.
    1. 1” mesh – knuckle-knuckle finish black
    2. 2-3/8” diameter, heavy duty line posts, SS40, vinyl coated, black
    3. 2-3/8” heavy duty brace bands and tension bands, vinyl coated, black
    4. Heavy duty carriage bolts, hot dip galvanized
    5. 11 gauge minimum, wire ties

2.04 ANCHORS

A. Guy Wires and Helical Anchors to be provided at end poles and angle poles as needed.

B. Hubbell-Chance SS175 – Square Shaft

C. 14/14/14 x 10’ ground anchor – C1100505

PART 3 EXECUTION

3.01 INSTALLATION OF EQUIPMENT

A. Netting Systems and Accessories shall be installed as required per manufacturer's written directions and as indicated on the engineered shop drawings.

END OF SECTION