GENERAL NOTES:

1. ALL SHEETING AND SHORING WORK DETAILED IN THESE DRAWINGS IS TO BE INSTALLED BY ATLAS FOUNDATIONS OF WASHINGTON, LLC IN ACCORDANCE WITH THEIR STANDARD PROCEDURES AND ALL APPLICABLE STANDARDS OF THE 2017 DCBC.
2. SOLDIER PILE/LAGGING WALLS ARE DESIGNED AS FREE DRAINING SYSTEMS WITH NO ALLOWANCE FOR HYDROSTATIC PRESSURES BEHIND WALLS.
3. CURRENT GRADES, B.O.F AND OTHER ELEVATIONS AS INDICATED HAVE BEEN TAKEN FROM CIVIL DRAWINGS BY VIKA CAPITOL DATED 02–23–23 AND STRUCTURAL DRAWINGS BY YUN ASSOCIATES DATED 12–19–23.
4. WORK THESE DRAWINGS WITH ARCHITECTURAL, STRUCTURAL, AND SITE PLAN DRAWINGS. IF CONFLICT OCCURS, FOLLOW ARCHITECTURAL GEOMETRY PLAN FOR BUILDING LAYOUT, STRUCTURAL DRAWINGS FOR FOOTING ELEVATIONS AND DIMENSIONS, AND CIVIL DRAWINGS FOR EXISTING CONDITIONS OF CURRENT GRADES AND ELEVATIONS.
5. NO CONTRACTOR OR SUB–CONTRACTOR MAY USE OR RELY ON DIMENSIONS AND GRADES SHOWN IN THESE DRAWINGS WITHOUT VERIFYING THEIR ACCURACY IN THE FIELD.
6. NO CONTRACTOR OR SUB–CONTRACTOR MAY USE OR RELY ON THESE DRAWINGS FOR LOCATION OF UTILITY LINES. HE IS TO CONTACT THE UTILITY OWNERS FOR ASSISTANCE IN LOCATION ALL SUCH LINES AND SERVICES, ETC. CONTACT MISS UTILITY PRIOR TO BEGINNING EXCAVATION AS REQUIRED BY LOCAL LAW (ATLAS WILL REQUEST MISS UTILITY TICKET FOR THEIR DRILLING PURPOSES). GENERAL CONTRACTOR TO PROVIDE UTILITY LOCATOR TO IDENTIFY AND MARK UTILITIES ON SITE PRIOR TO THE START OF WORK
7. SITE/BELOW GRADE DEWATERING (IF REQUIRED) IS BY OTHERS AND IS NOT PART OF THIS SCOPE OF WORK. SITE DEWATERING (IF REQUIRED) SHOULD BE PERFORMED CONCURRENTLY WITH EXCAVATION TO AVOID BUILDUP OF HYDROSTATIC PRESSURES BEHIND SOLDIER PILE/LAGGING WALLS

MATERIALS:

A. STRUCTURAL SECTIONS: GRADE 50 (W) SECTIONS SPECIFIED IN SCHEDULES OR SECTION WITH EQUIVALENT PROPERTIES.

B. WOOD LAGGING: 3" MIXED HARDWOOD LAGGING WITH MINIMUM FLEXURAL STRESS OF 925 PSI

SHEETING AND SHORING PROCEDURES:

A. GENERAL CONTRACTOR WILL COORDINATE THE EXCAVATION WORK BETWEEN SUPPORT OF EXCAVATION AND EARTHWORK SUBCONTRACTORS.

B. PROFESSIONAL SURVEYOR SHALL LOCATE AND MARK ALL OF THE RELEVANT CORNER POINTS AND ELEVATIONS OF THE NEW CONSTRUCTION. CONTACT THE SOE ENGINEER IF THERE ARE CLEAR DISCREPANCIES BETWEEN THE SITE LAYOUT AND THE LAYOUT SHOWN IN THE APPROVED SOE PLANS.

C. SURVEY SITE AND LOCATE ALL UTILITIES. ALERT SOE ENGINEER IF ANY PORTION OF THE SOE IS IN CONFLICT WITH THE EXISTING UTILITIES. ADJUST THE LOCATION OF THE SOE (OR ANY OF ITS COMPONENTS) AS PER THE ENGINEER'S WRITTEN INSTRUCTIONS.

D. LAYOUT ALL OF THE SOLDIER PILE LOCATIONS.

E. ESTABLISH A FIRM, 30' WIDE LEVEL BENCH AND DRILL PILES AS SHOWN IN PLAN, SECTIONS, AND SCHEDULE.

F. DRILL THE FIRST SOLDIER PILE TO THE DEPTH NOTED IN THE APPROVED SOE PLANS. MAKE SURE THE HOLE REMAINS OPEN.

G. BASED ON THE DRILLING RATE OF THE FIRST PILE, ESTIMATE DAILY SOLDIER PILE PRODUCTION RATE AND DRILL AS MANY SOLDIER PILES AS CAN BE INSTALLED IN ONE DAY.

H. INSERT STRUCTURAL STEEL ELEMENT (SEE SCHEDULE FOR SECTIONS) AS NEARLY VERTICAL AS POSSIBLE AND ALIGN THE FACE OF THE SOLDIER PILE WITH A STRING LINE LAYOUT TO MARK THE INTERIOR FACE OF THE SOE. ALLOW FOR CONSTRUCTION TOLERANCES, AS PER THE JOB REQUIREMENTS. MAKE SURE THE STEEL BEAM IS CLEAN. BACKFILL AUGER WITH FLOWABLE FILL TO DEPTH NOTED IN SCHEDULE.

I. IF REQUIRED IN THE DRAWINGS, INSTALL MONITORING DEVICES AT THIS STAGE. FOLLOW THE MONITORING PLAN NOTED IN THE DRAWINGS.

J. BEGIN LAGGING OPERATIONS BY HAVING THE EXCAVATOR CUT DOWN THE S&S AREA TO AN ELEVATION WHERE THE OPEN EARTH CUT IS SAFE AND STABLE, AND ACCORDING TO APPLICABLE CODES. DO NOT EXCAVATE MORE THAN WHAT THE LAGGING CREW CAN INSTALL IN A FEW DAYS. INSTALL WOOD LAGGING AS INDICATED IN THE SOE DRAWINGS. LEAVE A GAP BETWEEN LAGGING BOARDS (MAXIMUM 0.5") TO ALLOW WATER TO DRAIN FREELY AND AVOID BUILDUP OF HYDROSTATIC PRESSURES BEHIND SOLDIER PILE/LAGGING WALL

K. INSTALL SAFETY RAILING ALONG THE PERIMETER OF THE LAGGED SURFACES WHEN EXCAVATED HEIGHT REQUIRES IN COMPLIANCE WITH SITE FALL REQUIREMENTS.

P. THE BOTTOM 1–2 FT OF THE EXCAVATION MAY BE UNLAGGED TO AVOID DISTURBING SOILS ADJACENT TO FOOTING LOCATIONS.

SUPPORT OF EXCAVATION MONITORING PLAN:

AS PART OF THE EXISTING SITE SURVEY, THE OWNER WILL ENGAGE A GEOTECHNICAL ENGINEER TO PERFORM THE FOLLOWING:

1. BEFORE THE START OF CONSTRUCTION, TAKE PHOTOGRAPHS OF THE SITE AND SURROUNDING PROPERTIES IN SUFFICIENT NUMBER TO SHOW ALL EXISTING CONDITIONS AND IN SUFFICIENT DETAIL TO ACCURATELY RECORD THE PHYSICAL CONDITION OF THE BUILDINGS.
2. AT THE COMMENCEMENT OF BELOW GRADE EXCAVATION WORK, THE GEOTECHNICAL ENGINEER SHALL OBTAIN BASELINE DATA ON THE POSITION OF THE SUPPORT OF EXCAVATION SYSTEM. THESE BASELINE MEASUREMENTS AND SUBSEQUENT MOVEMENT EVALUATION SHALL BE PERFORMED USING COMMONLY USED SURVEY EQUIPMENT SUCH AS TOTAL STATION. THE SUPPORT OF EXCAVATION SYSTEM SHOULD BE MONITORED FOR BOTH VERTICAL AND LATERAL MOVEMENT.
3. THE SUPPORT OF EXCAVATION MONITORING WILL BE PERFORMED BY THE GEOTECHNICAL ENGINEER. MONITORING FREQUENCY SHALL BE TWICE PER WEEK UNTIL THE STRUCTURAL ENGINEER OF RECORD INDICATES THAT ALL BELOW GRADE LEVEL WALLS AND FLOORS ARE CONSTRUCTED AND CAPABLE OF RESISTING THE BELOW GRADE SOIL AND WATER PRESSURES.
4. THE MONITORING READING WILL BE TRANSMITTED VERBALLY TO THE GENERAL CONTRACTOR AND TO ATLAS FOUNDATIONS OF WASHINGTON, LLC ON THE DAY OF THE WORK. WRITTEN REPORTS CONTAINING THE MONITORING DATA AND CORRESPONDING GRAPHICAL PRESENTATION OF THE WORK WILL BE SUBMITTED TO THE STRUCTURAL ENGINEER, THE GENERAL CONTRACTOR AND ATLAS FOUNDATIONS OF WASHINGTON WITHIN 3 DAYS.
5. EXISTING ADJACENT STRUCTURES ARE OUTSIDE THE ZOI FOR THE SUPPORT OF EXCAVATION. IF MONITORING OF ADJACENT STRUCTURES IS REQUIRED, IT IS TO BE PERFORMED BY OTHERS. BEGIN WEEKLY MONITORING APPROXIMATELY 1 MONTH PRIOR TO COMMENCEMENT OF SOE OR EXCAVATION ACTIVITIES TO DETERMINE BASELINE BEHAVIOR OF EXISTING BUILDINGS TO BE ABLE TO ACCURATELY ASSESS IF SOE ACTIVITIES ARE AFFECTING EXISTING STRUCTURES.

SUPPORT OF EXCAVATION CONTINGENCY PLAN:

MONITORING NOTES:

1. THE ANTICIPATED MOVEMENT TOLERANCE FOR THE SOLDIER PILES IS 0.5% OF THE EXCAVATION HEIGHT OR 1 INCH (WHICHEVER IS LARGER) HORIZONTALLY AND 0.375 INCHES VERTICALLY. IF HORIZONTAL MOVEMENT OF THE SUPPORT OF EXCAVATION EXCEEDS THIS DIMENSION, THE SUPPORT OF EXCAVATION DESIGN ENGINEER, ED PEREZ, P.E. (ATLAS FOUNDATIONS OF WASHINGTON, LLC. 301–316–5650), MUST BE CONTACTED IMMEDIATELY TO ASSESS WHAT MEASURES SHOULD BE TAKEN.

SOLDIER PILE SCHEDULE

	T.O.WALL (FT)	B.O.WALL (FT)	H (FT)	A (FT)	TOE ELEVATION (FT)	BEAM LENGTH (FT)	SIZE
P1	332.00	327.50	4.50	9.00	318.50	13.50	W16X31
P2	333.00	327.50	5.50	11.00	316.50	16.50	
P3	334.00	327.50	6.50	13.00	314.50	19.50	
P4-P6	334.00	328.00	6.00	12.00	316.00	18.00	
P7-P8	335.00	328.50	6.50	13.00	315.50	19.50	
P9-P10	336.00	329.00	7.00	13.50	315.50	20.50	
P11-P13	336.50	329.00	7.50	15.50	313.50	23.00	
P14-P15	337.00	329.50	7.50	15.50	314.00	23.00	
P16-P18	338.00	330.00	8.00	16.50	313.50	24.50	
P19-P21	339.00	331.00	8.00	16.50	314.50	24.50	
P22-P24	340.00	332.00	8.00	16.50	315.50	24.50	
P25-P27	340.00	332.50	7.50	15.50	317.00	23.00	
P28-P29	340.00	333.00	7.00	15.00	318.00	22.00	
P30-P36	340.00	333.50	6.50	13.50	320.00	20.00	
P37	339.50	333.00	6.50	13.00	320.00	19.50	
P38	339.00	333.00	6.00	12.00	321.00	18.00	
P39-P40	339.00	332.50	6.50	13.00	319.50	19.50	
P41	338.00	332.00	6.00	12.00	320.00	18.00	
P42	338.00	331.50	6.50	13.00	318.50	19.50	
P43-P44	337.00	331.00	6.00	12.00	319.00	18.00	
P45	337.00	330.50	6.50	13.00	317.50	19.50	
P46	336.00	330.50	5.50	11.00	319.50	16.50	
P47	336.00	330.00	6.00	12.00	318.00	18.00	
P48-P49	335.00	329.50	5.50	11.00	318.50	16.50	
P50	335.00	329.00	6.00	12.00	317.00	18.00	
P51-P52	334.00	328.50	5.50	11.00	317.50	16.50	
P53	334.00	328.00	6.00	12	316.00	18.00	
P54	333.00	328.00	5.00	10.00	318.00	15.00	
P55-P56	323.50	317.50	6.00	9.5	308.00	15.50	
P57	323.50	317.00	6.50	10.00	307.00	16.50	
P58-P61	323.50	316.50	7.00	10.5	306.00	17.50	
P62-P65	323.50	317.00	6.50	10.00	307.00	16.50	
P66	323.50	317.50	6.00	9.5	308.00	15.50	

DISTRICT OF COLUMBIA
EDWARD PEREZ-PETER
No. RES01675
REGISTERED
PROFESSIONAL ENGINEER

GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED
Permit No. SH2400019 Date 04/09/24

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the revised plans. Trade Permits are required for trade work. e.g. Electrical or Plumbing

HPRB Review - Timothy Dennee - 04-09-2024
Zoning Review - Ernesto Warren - 04-09-2024
Structural Review - Tong Li - 04-09-2024
DOEE SE-SW Review - Saba Gharavi - 04-09-2024

AFW ENGINEERING, INC
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Temple Hills,MD 20748

REVISION
NO. BY DATE

APPROVED FOR WORK TO BE PERFORMED BY ATLAS FOUNDATIONS OF WASHINGTON, LLC

BY:

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SHEETING & SHORING

Sheet Title: NOTES & SCHEDULES

Project: MARET ATHLETIC FIELDS
5901 UTAH AVE, NW
WASHINGTON, DC 20015

Date: 02–02–24
Engineer: E.P.R
Drawn By: L.R.E.
Scale: AS SHOWN
Sheet No. SOE003
Rev.
File No. 24–4792

Board of Zoning Adjustment
CASE NO.21100
EXHIBIT NO.31G