BEGINNING THE PROJECT.

DATE

DATED JUNE, 2014.

DATE

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

HOYLE'S MILL STRUCTURAL STABILIZATION -

REVISED 100% DESIGN

C. I. P. PROJECT 501915 SHA TRACKING NO. 22-AP-MO-022-XX

Seneca Lake LIMIT OF WORK STA. 11+36 **PROJECT** LOCATION CSX TRANSPORTATION (MARC) BOYDS 117 CEM. PROJECT LENGTH = 0.08 MILES MONTGOMERY COUNTY

VICINITY MAP SCALE : 1"= 500'

MD	117	(BARNESVILLE	ROAD)	DESIGN	DATA
DECICAL CDEED.				40 M D II	

| DESIGN SPEED: 40 M.P.H. 2022 AADT: 5,193

> OWNER/ADDRESS: MONTGÓMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878

REBECCA PARK, P.E. 240-777-7263

PROFESSIONAL CERTIFICATION. HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME. AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. EXPIRATION DATE: XX/XX/XXXX



NO.	REVISION	DATE	BY	

M.C.D.E.P. Floodplain District WATERWAY/WETLANDS a. Corps of Engineers X c. M.D.E. Water Quality Certification M.D.E. Dam Safety DPS Roadside Tree Protection Plan TBD N.P.D.E.S. NOTICE OF INTENT TBD TBD M.C.D.P.S. STORMWATER 285472 N/AMANAGEMENT 288386 TBD FEMA LOMR
(REQUIRED POST CONSTRUCTION) D.P.S. BUILDING PERMIT TBD TBD M.C.P.D.S SEPTIC SYSTEM PERMIT TBD TBD OTHERS: (PLEASE LIST SHA ACCESS PERMIT |22-AP-MO-022-XX|

RESTRICTION DATES

REQD NOT REQD

GENERAL NOTES

- 1. THIS STRUCTURAL STABILIZATION PROJECT IS TO BE COMPLETED IN ADVANCE AND SEPARATE OF THE TRANSIT IMPROVEMENTS PROJECT. SITE DEMOLITION ACTIVITIES, SITE CLEANUP, AND GROUNDWATER REMEDIATION SHALL BE DONE WITHIN THE TRANSIT IMPROVEMENTS PROJECT. AND ARE NOT PART OF THIS STRUCTURAL STABILIZATION PROJECT.
- 2. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE LATEST EDITION OF THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION, THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION 2024 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, THE MARYLAND WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS. AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS
- 3. HORIZONTAL DATUM: NAD 83(1991) VERTICAL DATUM: NAVD 88..
- 4. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- 5. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE COUNTY BEFORE PROCEEDING WITH CONSTRUCTION.
- 6. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- 7. THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
- 8. CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER SUPERVISION OF WSSC MAINTENANCE ENGINEER, CALL 301-206-9772.
- 9. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
- 10. REFER TO THE HAZARDOUS MATERIALS SURVEY PERFORMED BY CHESAPEAKE ENVIRONMENTAL MANAGEMENT, INC. DATED AUGUST 2019. CONTRACTOR TO REMEDIATE HAZMAT AS REQUIRED.
- 11. STRUCTURAL STABILIZATION WORK IS COVERED BY HISTORIC AREA WORK PERMIT (HAWP) #1038325.

MONTGOMERY COUNTY

DEPARTMENT OF TRANSPORTATION

GAITHERSBURG. MARYLAND

RECOMMENDED FOR APPROVAL

APPROVED

Chief, Transportation Planning and Design Section

Designed by: <u>LJH</u> Drawn by: <u>FIE</u>

Chief, Division of Transportation Engineering

Checked by: FAH

TI-01 TITLE SHEET HOYLE'S MILL STRUCTURAL STABILIZATION BOYDS, MARYLAND

SCALE : NTS 30 JAN 2025 Project No. : <u>32207.003</u> SHEET <u>1</u> of 11

DEVELOPER'S/BUILDER'S CERTIFICATION

DESIGN CERTIFICATION

MR. JOSEPH MOGUES, CHIEF

JASON D. COSLER, P.E.

FEET OR 1.28 ACRES.

DATE

PAMELA H. DESTINO, P.E. MD REGISTRATION NO. 42708

MD REGISTRATION NO. 28467

CERTIFICATION OF QUANTITIES

FILL AS SHOWN ON THESE PLANS HAVE BEEN COMPUTED TO BE 4,500 CUBIC YARDS OF EXCAVATION AND 1,700 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE A MAXIMUM OF 55,965 SQUARE

I FURTHER CERTIFY THAT THE TOTAL AMOUNTS OF EXCAVATION AND

DIVISION OF TRANSPORTATION ENGINEERING

I HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND"

MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN DESIGN CRITERIA"

STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY

DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND

CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE OF A DEPARTMENT OF NATURAL

RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE

DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNÉL INVOLVED IN THE

LEGEND

DOOR NUMBER SYMBOL

WINDOW NUMBER SYMBOL

ROOM NUMBER SYMBOL

BUILDING SECTION SYMBOL

WALL SECTION/ELEVATION SYMBOL

TITLE AND DETAIL REFERENCE SYMBOL

WALL/BUILDING SECTION SYMBOL

NUMBER-CONSTRUCTION NOTE

NUMBER-DEMOLITION NOTE

NORTH ARROW (CONSTRUCTION NORTH)

PARTITION TYPES

REVISION

TITLE AND DETAIL REFERENCE SYMBOL

CONCRETE MASONRY UNITS GYPSUM BOARD PARTITIONS WOOD-FINISH GRADE WOOD BLOCKING

RIGID WALL/PERIMETER INSULATION

RIGID ROOF INSULATION BATT INSULATION

CONCRETE

POROUS FILL

METAL PATTERN

REVIATIONS

		A	BBREVIATIO)N
ABV	ABC)VE		
AD ADA ADD ADJ AES AF AHL ALT ALU APP ARC ATC AWF	AME ADD ADD ABC ACC ABO AIR ALTE M ALU PROX APF ACC ACC	CESS DOOR (OR PANEL CRICAN WITH DISABILITIED ENDUM ACENT DIVE EXISTING SLABUSESS FLOOR HANDLING UNITERNATE MINUM PROXIMATE CHITECTURAL DUSTICAL WALL PANEL CONTRACTOR OF THE PANEL OF THE P		ON)
BD BEN BET BLD BLK BM BOT BR	I BEN W BET I'G BUI I'G BLO BE	TOM		
C/C CAB CEM CER CI CG CJ CL CLC CLC CLC COM COM COM COM COM COM COM COM COM CO	CAE CAE CAE CAS COI COI CEN CEN CLE COL COL COI COI COI COI COI COI	NTER TO CENTER SINET MENT RAMIC T IRON RNER GUARD NTROL JOINT NTERLINE DSET LING TAR NCRETE MASONRY UNIT EAR OPENING LUMN MPACTED NCRETE NSTRUCTION NTINUOUS NVECTOR LD ROLLED NNECT TO EXISTING		
D DEG DEN DET DIA DIR DN DO DR DS DWO	DEC MO DEN DET DIAM DIRE DOV DOV DOV	IETER ICTORY WN OR OPENING		
E EA EFS EJFS	S EXTE		FINISH SYSTEM	

NS		
)	F FC FD FE FEC FH FIRE T FIN FIX FL FLR FR FR FR FR FRC FT FTG	FILLER FAN COIL UNIT FLOOR DRAIN OR FIRE DAMPER FIRE EXTINGUISHER ON BRACKET FIRE EXTINGUISHER CABINET FLAT HEAD FIRE TREATED FINISH OR FINISHED FIXTURE FLASHING FLOOR FIRE RATED FIBER—REINFORCED COATING FOOT OR FEET FOOTING
	GA GALV GEN GRD GRT GVP GYPB GYPBS	GAUGE GALVANIZED GENERAL GROUND GROUT GYPSUM VENEER PLASTER GYPSUM BOARD (WALL OR CEILING) GYPSUM BOARD SHAFT—WALL ASSEMBLY
	H HB HDW HM HOR HP HR HT HTR HVAC HW	HEAD HORIZONTAL BLIND HARDWARE HOLLOW METAL HORIZONTAL HIGH POINT HOUR HEIGHT HEATER HEATING, VENTILATING AND AIR CONDITIONING HOT WATER
	IN INSUL INT	INCH INSULATION INTERIOR
	JT L LG LIN LLV LOC LP LT LTG LV	JOINT LINTEL LONG LINOLEUM FLOOR COVERING LONG LEG VERTICAL LOCATION LOW POINT LIGHT LIGHTING LOUVER
	MACH MAS MATL MAX MET	MACHINE MASONRY MATERIAL MAXIMUM METAI

METAL

METAL

MANHOLE

MINIMUM

MARK

MOUNTED

METAL

MECHANICAL

MANUFACTURER

MISCELLANEOUS

METAL PANEL

MASONRY OPENING

esigned by: <u>LJH</u> Drawn by: <u>FIE</u>

MFB

MIN

MEDIUM DENSITY FIBERBOARD

MINERAL FIBER BLANKET

SECT SF SQUARE FOOT SFT SHT STRUCTURAL FACING TILE SHEET SIMILAR SIM SJ STEEL JOIST SANITARY NAPKIN DISPOSAL SECTIONAL OVERHEAD DOOR (STEEL; ALUMINUM: PLASTIC PANEL) SPECIFICATION

NORTH

NUMBER NOMINAL

OVERALL

ON CENTER

OPENING OPPOSITE

OUNCE

PIECE

PLATE

PLASTER

PARTITION

QUANTITY

REQUIRED

REQUIRED

RETURN

REVISION ROBE HOOK

ROOM

ROOF VENT

SECTION

PAVER TILE

PLASTIC FABRICATION

PLASTIC LAMINATE

PRESSURE TREATED

POLYVINYL CHLORIDE

RISER OR RADIUS

REINFORCING BAR

ROUGH OPENING

REMOVE EXISTING

RESINOUS FLOORING

REINFORCED CONCRETE PIPE

REINFORCED OR REINFORCING

RECESSED WASTE RECEPTACLE

SILL, SOUTH OR SINGLE SCHEDULE OR SCHEDULED

SOAP DISPENSER OR STORM DRAIN

ROOF DRAIN OR ROUND

PREFABRICATED

OVERHEAD COILING DOOR

OVERHEAD COILING GRILLE

NTS

OA

OC

OHD

OHG OPNG

OPP

ΟZ

PAV

PC

PLAS

PREFAB

PRES T

PTN

QTY

RD

REQ'D

REBAR

REINF

RESF

REQ

RET

RX

SYS

T&B

Checked by: **FAH**

NOT APPLICABLE NOT IN CONTRACT

NOT TO SCALE

STAND PIPE SP SSM SOLID SURFACING MATERIAL STATIONARY STL STEEL STRUCT

STRUCTURAL OR STRUCTURE SYSTEM

TILE TOP & BOTTOM TONGUE & GROOVE

DRAWING INDEX

SHEET NAME	SHEET NUMBER	DRAWING TITLE
T1-01	1	TITLE SHEET
G1-01	2	INDEX, LEGEND AND ABBREVIATIONS
EC-01	3	EXISTING CONDITIONS (FOR REFERENCE ONLY)
A1-01	4	BASEMENT PLANS - DEMO AND NEW WORK
A1-02	5	FIRST AND SECOND FLOOR PLANS - NEW WORK
A5-01	6	SITE STAIR, BASEMENT DOOR, AND SIGNAGE
A5-02	7	LOUVER ELEVATION AND SECTION
S0-01	8	STRUCTURAL GENERAL NOTES AND CRITERIA
S1-01	9	BASEMENT PLAN AND FIRST FLOOR PLAN
S3-01	10	BUILDING SECTIONS
S3-02	11	BUILDING SECTIONS

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. EXPIRATION DATE: XX/XX/XXXX



EXPANSION JOINT

ELECTRIC OR ELECTRICAL

EXPANDED POLYSTYRENE

ELECTRIC UNIT HEATER

ELECTRIC WATER COOLER

EXPANSION OR EXPOSED

ELECTRIC WATER COOLER - ACCESSIBLE

ELEVATION

EPOXY

EQUAL

EQUIPMENT

EACH WAY

EXISTING

EXTERIOR

ESTIMATE

ELEC

EPS

EPX

EQUIP

EST

EUH

EW

EWCA

EXP

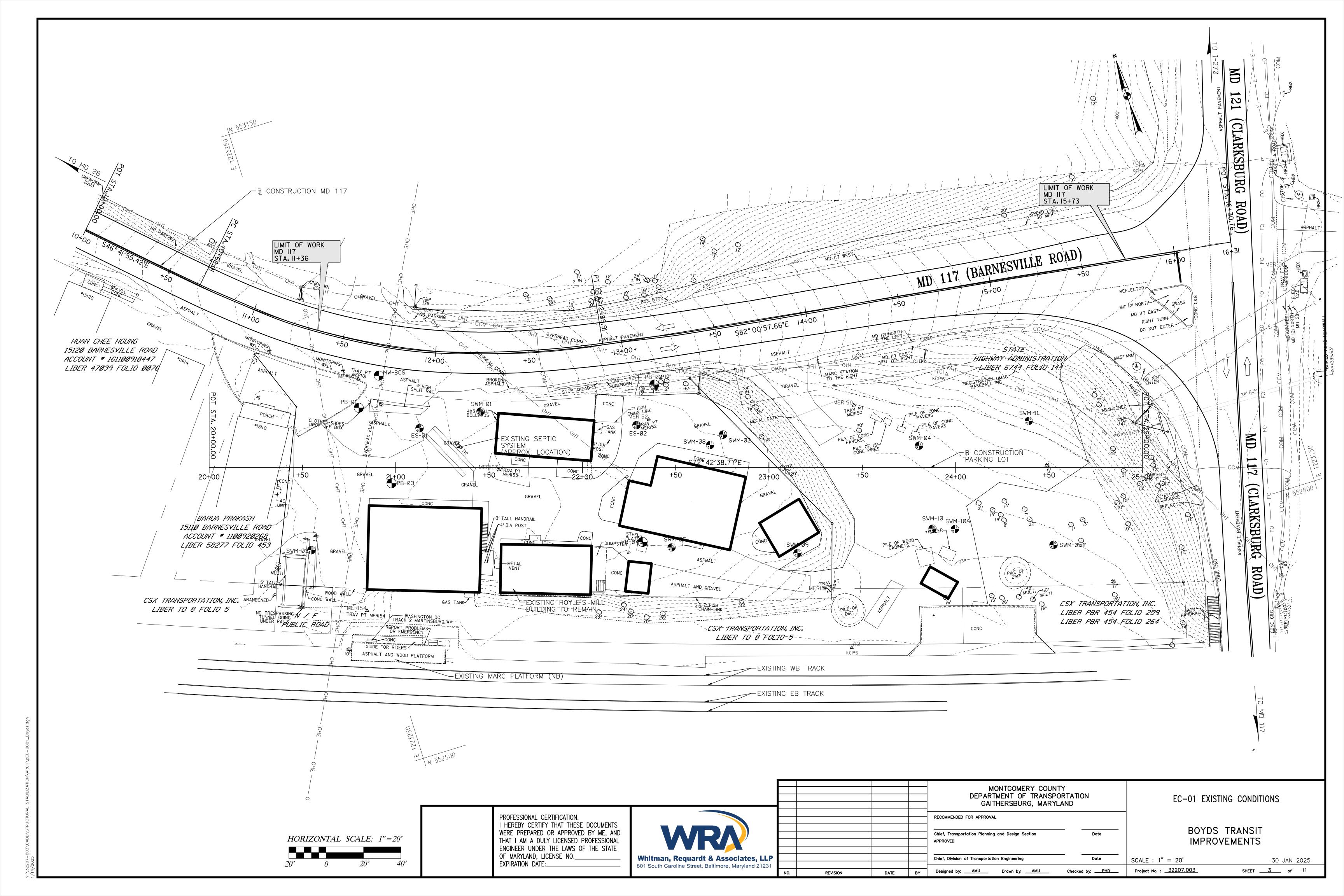
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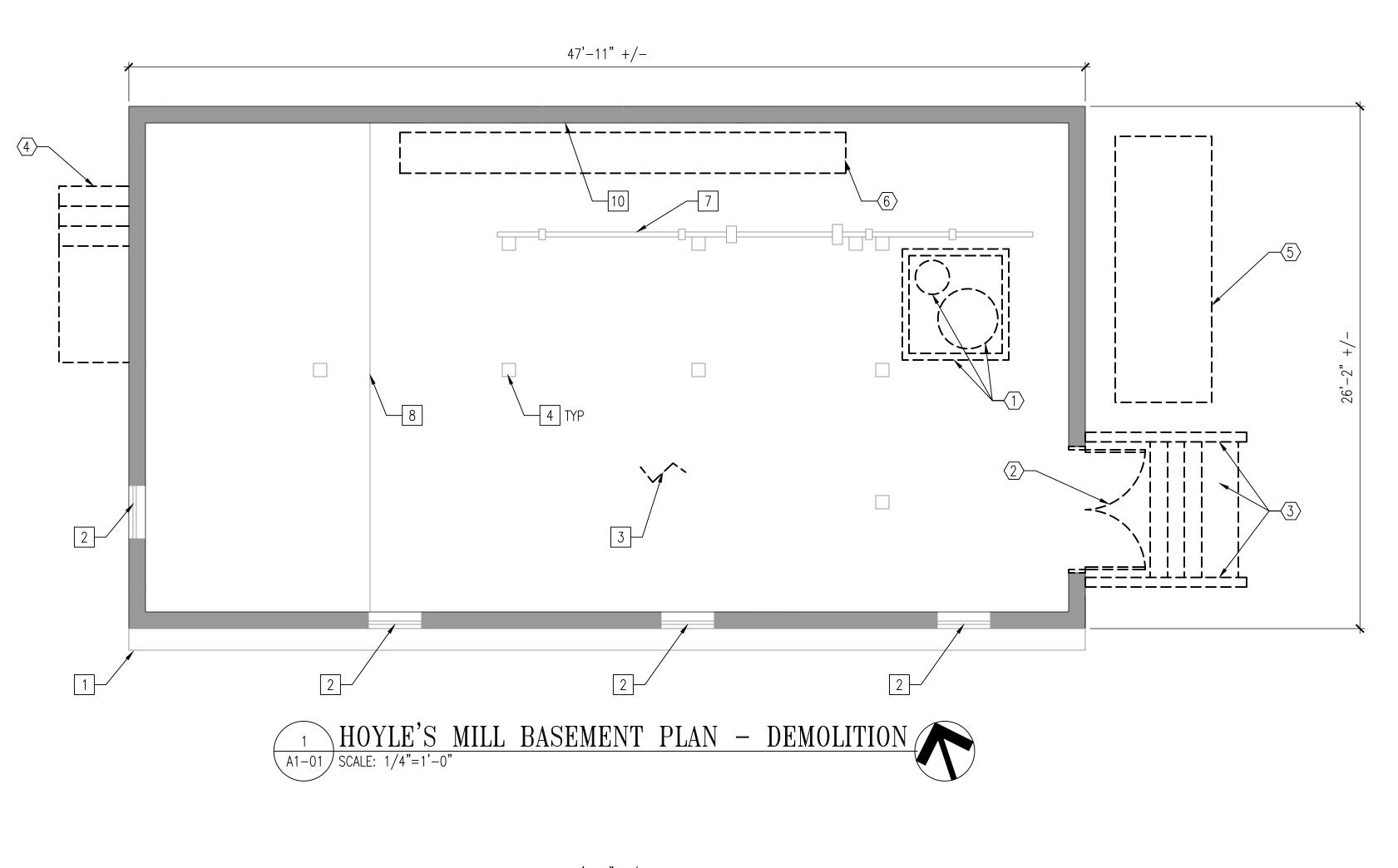
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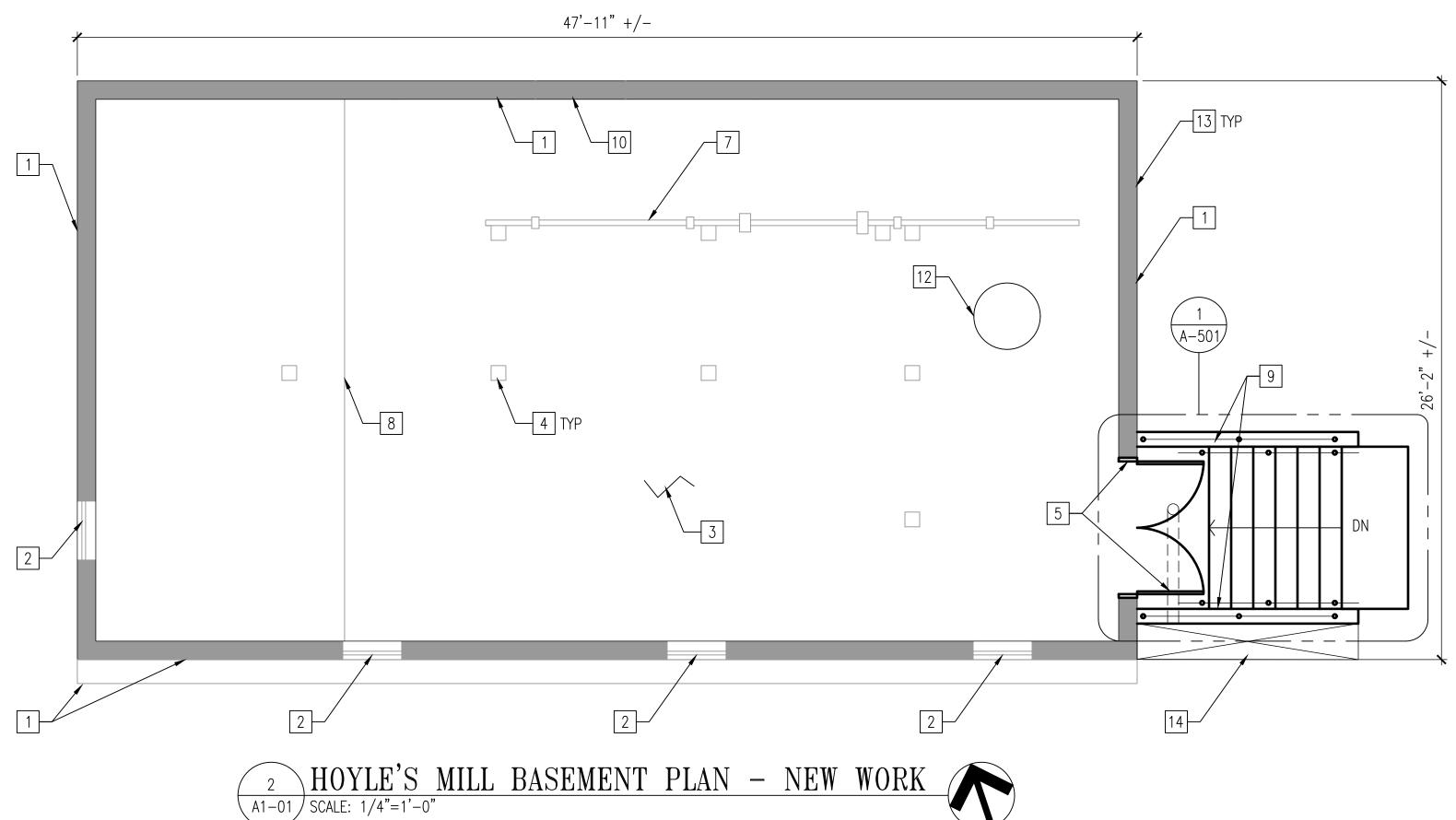
				MONTGOMERY (DEPARTMENT OF TRA GAITHERSBURG, N
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Section APPROVED
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	Designed by: <u>LJH</u> Drawn by: <u>FIE</u>

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION G1-01 INDEX, LEGEND AND ABBREVIATIONS GAITHERSBURG, MARYLAND HOYLE'S MILL STRUCTURAL STABILIZATION BOYDS, MARYLAND

SCALE : NTS 30 JAN 2025 Project No. : <u>32207.003</u> SHEET <u>2</u> of 11







GENERAL NOTES

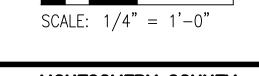
- 1. DE-ENERGIZE AND REMOVE POWER LINES CONNECTED TO THE BUILDING PRIOR TO STARTING ANY OTHER WORK.
- 2. THE EXISTING STRUCTURE IS IN VERY POOR CONDITION, AND ACCESS TO THE BUILDING IS DANGEROUS. CONTRACTOR MUST PROVIDE HELICAL PILES AND TEMPORARY SHORING WITHIN THE BASEMENT PRIOR TO BEGINNING WORK WITHIN BASEMENT. SEE STRUCTURAL DRAWINGS FOR HELICAL PILE INFORMATION. TEMPORARY SHORING AND HELICAL PILE SYSTEM MUST BE DESIGNED AND PROVIDED BY THE CONTRACTOR.
- 3. REMOVE AND DISPOSE OF ALL TRASH AND DEBRIS LOCATED WITHIN THE BASEMENT AREA, INCLUDING BUT NOT LIMITED TO TIRES AND ALL NON-STRUCTURAL COMPONENTS OTHER THAN COMPONENTS INDICATED TO REMAIN OR TO BE SALVAGED.
- 4. REMOVE AND DISPOSE OF LOOSE TRASH AND DEBRIS IN UPPER FLOORS, INCLUDING BUT NOT LIMITED TO UNUSED SHELVING, FLUORESCENT LIGHTING, FLAMMABLE/HAZARDOUS CHEMICALS, ETC. ALLOW BOYDS HISTORICAL SOCIETY TO REVIEW REMOVED ITEMS BEFORE DISPOSAL TO DETERMINE WHAT HAS HISTORICAL VALUE FOR SALVAGE AND THEIR RETENTION. HISTORIC ARTIFACTS SUCH AS MILL EQUIPMENT AND THE HISTORIC HEATING EQUIPMENT MUST BE LEFT IN
- 5. REMOVE ALL INSECT AND BIRDS' NESTS WITHIN OR ATTACHED TO THE BUILDING.
- 6. FOR ALL 1ST AND 2ND FLOOR WINDOWS, ADD LOUVER INFILL. SEE DETAIL 4/A5-01.

DEMOLITION KEYNOTES

- (1) DEMOLISH EXISTING WELL EQUIPMENT AND WOOD WALLS AROUND WELL EQUIPMENT. CAP EXISTING WELL.
- (2) DEMOLISH EXISTING DOORS AND FRAME
- (3) DEMOLISH EXISTING CONCRETE STAIRS AND CHEEK WALLS. EXCAVATE AROUND EXISTING STAIRS TO ALLOW CONSTRUCTION OF NEW STAIRS (SEE STRUCTURAL DRAWINGS). TEMPORARILY BENCH, SLOPE, OR SHORE EXCAVATION AS NEEDED (SUPPORT OF EXCAVATION TO BE DESIGNED AND PROVIDED BY THE CONTRACTOR).
- 4 REMOVE AND DISPOSE OF EXISTING STEEL STAIR PLATFORM.
- (5) REMOVE AND DISPOSE OF EXISTING METAL SHED AND SLAB.
- 6 DEMOLISH, REMOVE, AND DISPOSE OF EXISTING LARGE CONCRETE MASS (SEE STRUCTURAL DRAWINGS S1-01, S3-01, AND S3-02).

NEW WORK KEYNOTES

- 1 EXISTING CONCRETE WALL
- 2 EXISTING WOOD WINDOW FRAME
- 3 EXISTING UNFINISHED, UNGRADED DIRT FLOOR
- 4 EXISTING WOOD POST
- 5 STEEL DOOR AND FRAME
- 6 CONCRETE STAIRS AND CHEEK WALLS
- 7 HISTORIC MILL EQUIPMENT INCLUDING PULLEY WHEELS, CRANKSHAFT, AND ALL HARDWARE TO REMAIN IN PLACE
- 8 EXISTING LEDGE OF SOIL IN CRAWLSPACE
- 9 CONCRETE CHEEK WALLS, STEPS, AND 1 1/2" DIA. GALVANIZED METAL HANDRAILS. TOP OF CHEEK WALLS 6" ABOVE AND PARALLEL TO GRADE. SEE STRUCTURAL DRAWINGS FOR DETAILS
- 10 FIRST FLOOR DOOR OPENING ABOVE
- 11 2'-0" X 2'-0" LOUVER, GALVANIZED FINISH, TYP
- 12 CAPPED WELL
- 13 PROVIDE POSITIVE—SIDE WATERPROOFING SYSTEM FROM W.R. MEADOWS TO CONCRETE FOUNDATION (PROVIDE WATERPROOFING PRIMER, FLUID-APPLIÈD WATERPROOFING MEMBRANE, DRAINAGE SHEET, AND PROTECTION COURSE)
- 14 LOCATION OF FILTER CLOTH WRAPPED DRYWELL FILLED WITH #57 GRAVEL



Chief, Transportation Planning and Design Section

Designed by: <u>LJH</u> Drawn by: <u>FIE</u>

Chief, Division of Transportation Engineering

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL

Checked by: <u>FAH</u>

HOYLE'S MILL STRUCTURAL STABILIZATION BOYDS, MARYLAND

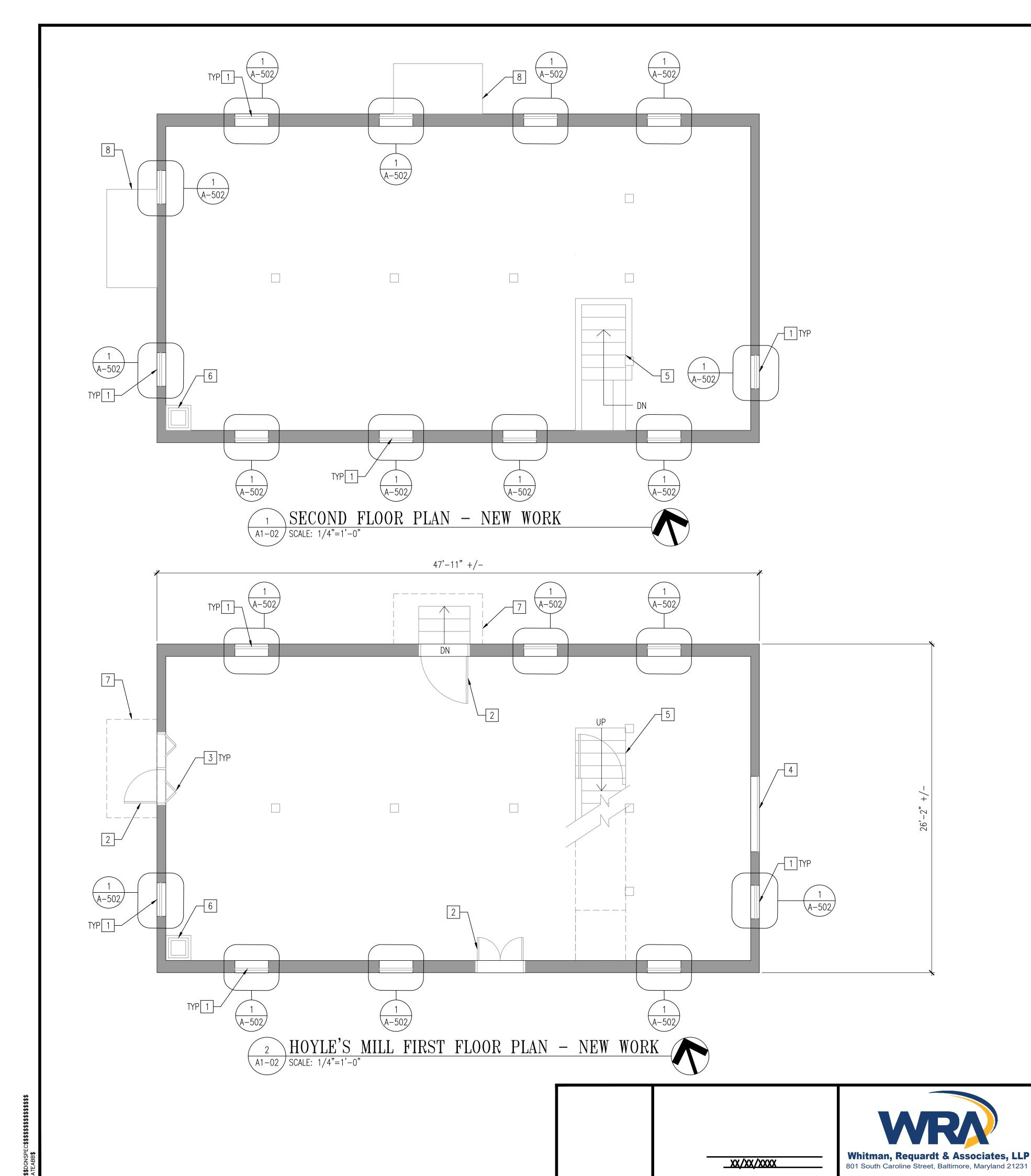
A1-01 BASEMENT PLANS - DEMO AND NEW WORK

SCALE : AS NOTED 30 JAN 2025 Project No. : <u>32207.003</u> SHEET <u>4</u> of 11

801 South Caroline Street, Baltimore, Maryland 21231

Whitman, Requardt & Associates, LLP

_xx/xx/xxxx



GENERAL NOTES

- 1. DE-ENERGIZE AND REMOVE POWER LINES CONNECTED TO THE BUILDING PRIOR TO STARTING ANY OTHER WORK.
- 2. THE EXISTING STRUCTURE IS IN VERY POOR CONDITION, AND ACCESS TO THE BUILDING IS DANGEROUS. CONTRACTOR MUST PROVIDE HELICAL PILES AND TEMPORARY SHORING WITHIN THE BASEMENT PRIOR TO BEGINNING WORK WITHIN BASEMENT. SEE STRUCTURAL DRAWINGS FOR HELICAL PILE INFORMATION. TEMPORARY SHORING AND HELICAL PILE SYSTEM MUST BE DESIGNED AND PROVIDED BY THE CONTRACTOR.
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- 4. REMOVE AND DISPOSE OF LOOSE TRASH AND DEBRIS IN UPPER FLOORS, INCLUDING BUT NOT LIMITED TO UNUSED SHELVING, FLUORESCENT LIGHTING, FLAMMABLE/HAZARDOUS CHEMICALS, ETC. ALLOW BOYDS HISTORICAL SOCIETY TO REVIEW REMOVED ITEMS BEFORE DISPOSAL TO DETERMINE WHAT HAS HISTORICAL VALUE FOR SALVAGE AND THEIR RETENTION. HISTORIC ARTIFACTS SUCH AS MILL EQUIPMENT AND THE HISTORIC HEATING EQUIPMENT MUST BE LEFT IN
- 5. REMOVE ALL INSECT AND BIRDS' NESTS WITHIN OR ATTACHED TO THE BUILDING.
- 6. FOR ALL 1ST AND 2ND FLOOR WINDOWS, ADD LOUVER INFILL. SEE DETAIL 4/A5-01.

KEYNOTES

1 EXISTING WOOD WINDOW FRAME

2 EXISTING WOOD DOOR

3 EXISTING INTERIOR BI-FOLD DOOR

4 FORMER DOOR OPENING

5 STAIR WELL

6 EXISTING BRICK CHIMNEY

7 CANOPY ABOVE

8 CANOPY

0 2' 4' SCALE: 1/4" = 1'-0"

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED

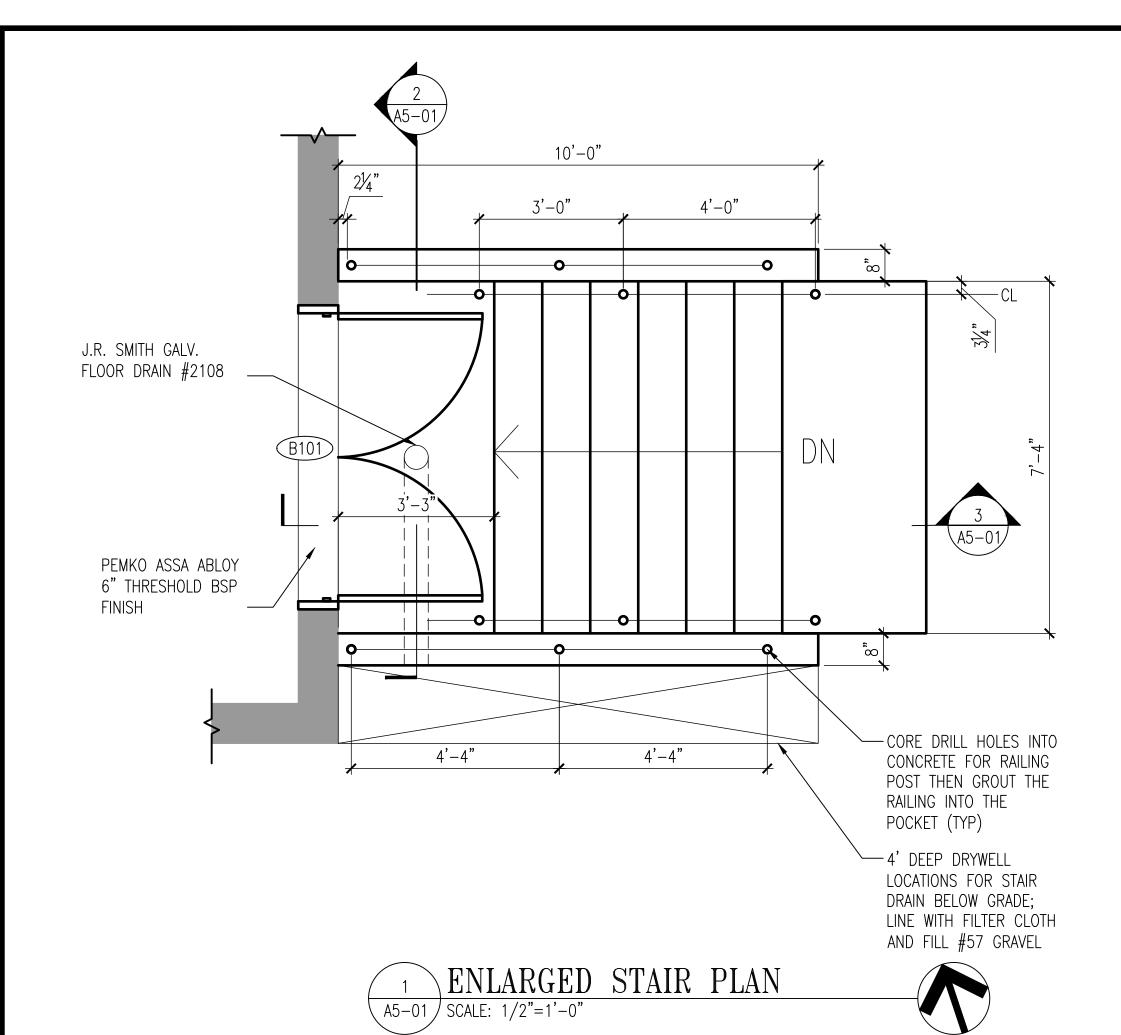
Chief, Division of Transportation Engineering

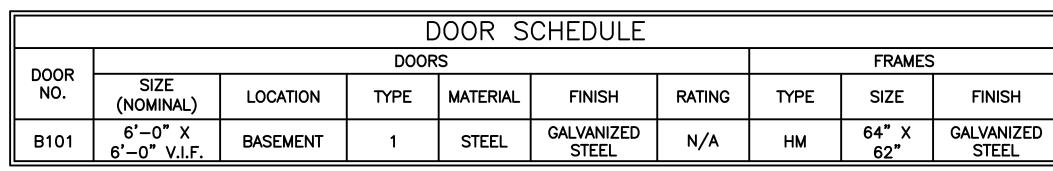
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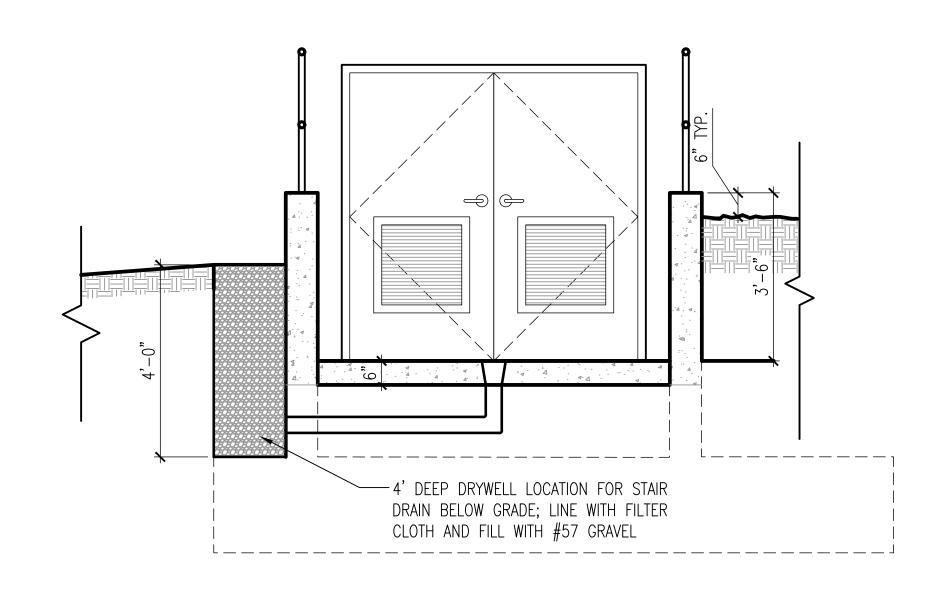
A1-02 FIRST AND SECOND FLOOR - NEW WORK
HOYLE'S MILL
STRUCTURAL STABILIZATION
BOYDS, MARYLAND

 SCALE: AS NOTED
 30 JAN 2025

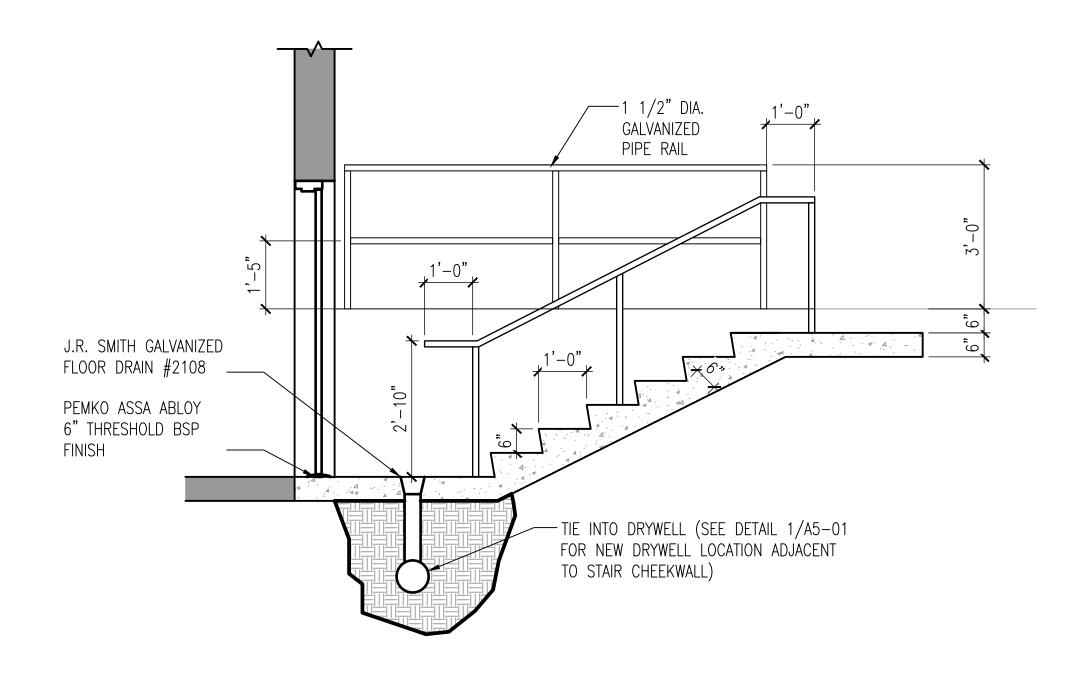
 Project No.: 32207.003
 SHEET 5 of 11





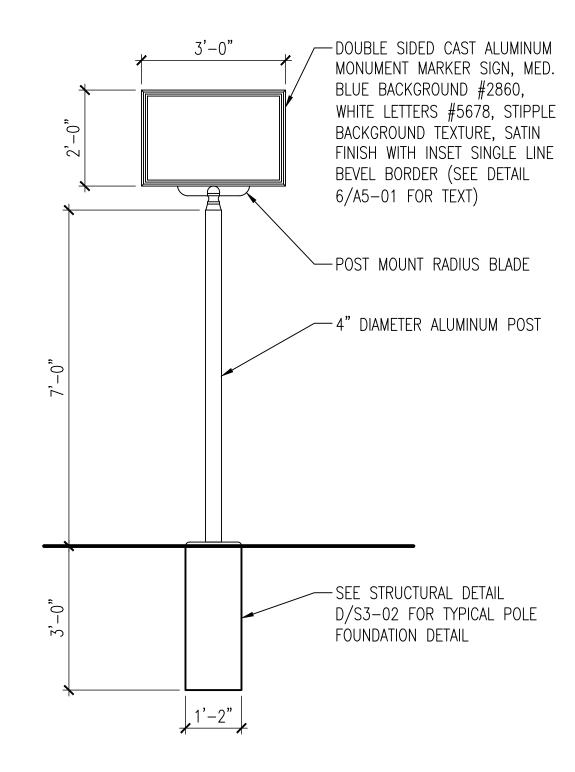


2 DOOR ELEVATION AND CHEEK WALL CROSS SECTION A5-01 SCALE: 1/2"=1'-0"



NOTES: GUARDRAILS AND HANDRAILS ARE GALVANIZED STEEL WITH 2" ROUND DIAMETER. DESIGN OF GUARDRAILS AND HANDRAILS IS DELEGATED TO THE CONTRACTOR.

3 DOOR AND STAIR CROSS SECTION
A5-01 SCALE: 1/2"=1'-0"



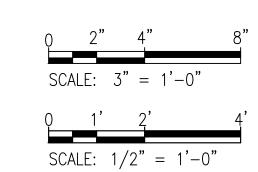
4 HISTORICAL MARKER SIGN ELEVATION
A5-01 SCALE: 1/2"=1'-0"

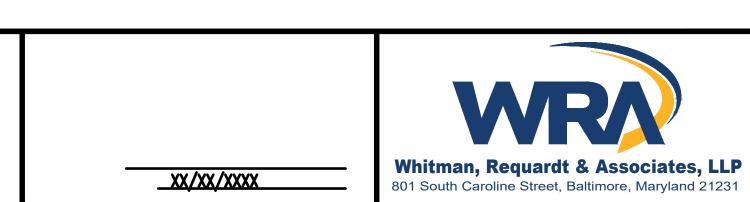
BOYDS, MARYLAND, AND HOYLE'S MILL

THE TOWN OF BOYDS ORIGINATED AS A CAMP FOR WORKERS WHO, UNDER THE SUPERVISION OF RAILROAD CONTRACTOR JAMES A. BOYD, BUILT A SECTION OF THE METROPOLITAN BRANCH OF THE B&O RAILROAD BETWEEN 1866 AND 1873. BOYD AND HIS WIFE SARAH SETTLED NEARBY ON A LARGE FARM, AND THE NEW RAILROAD STATION WAS NAMED IN HIS HONOR. HALF A MILE SOUTH WAS WHITE GROUNDS, A COMMUNITY FOUNDED BY AFRICAN-AMERICAN FAMILIES WHO HAD FORMERLY BEEN ENSLAVED ON NEARBY FARMS.

THE HOYLE FAMILY HAD A WATER-POWERED GRAIN MILL ON LITTLE SENECA CREEK FROM THE EARLY 1800S TO 1903. IN 1915, SMITH HOYLE OPENED A NEW GASOLINE-POWERED FLOUR MILL ACROSS FROM BOYD'S STATION. HE OPERATED THAT MILL UNTIL 1940.





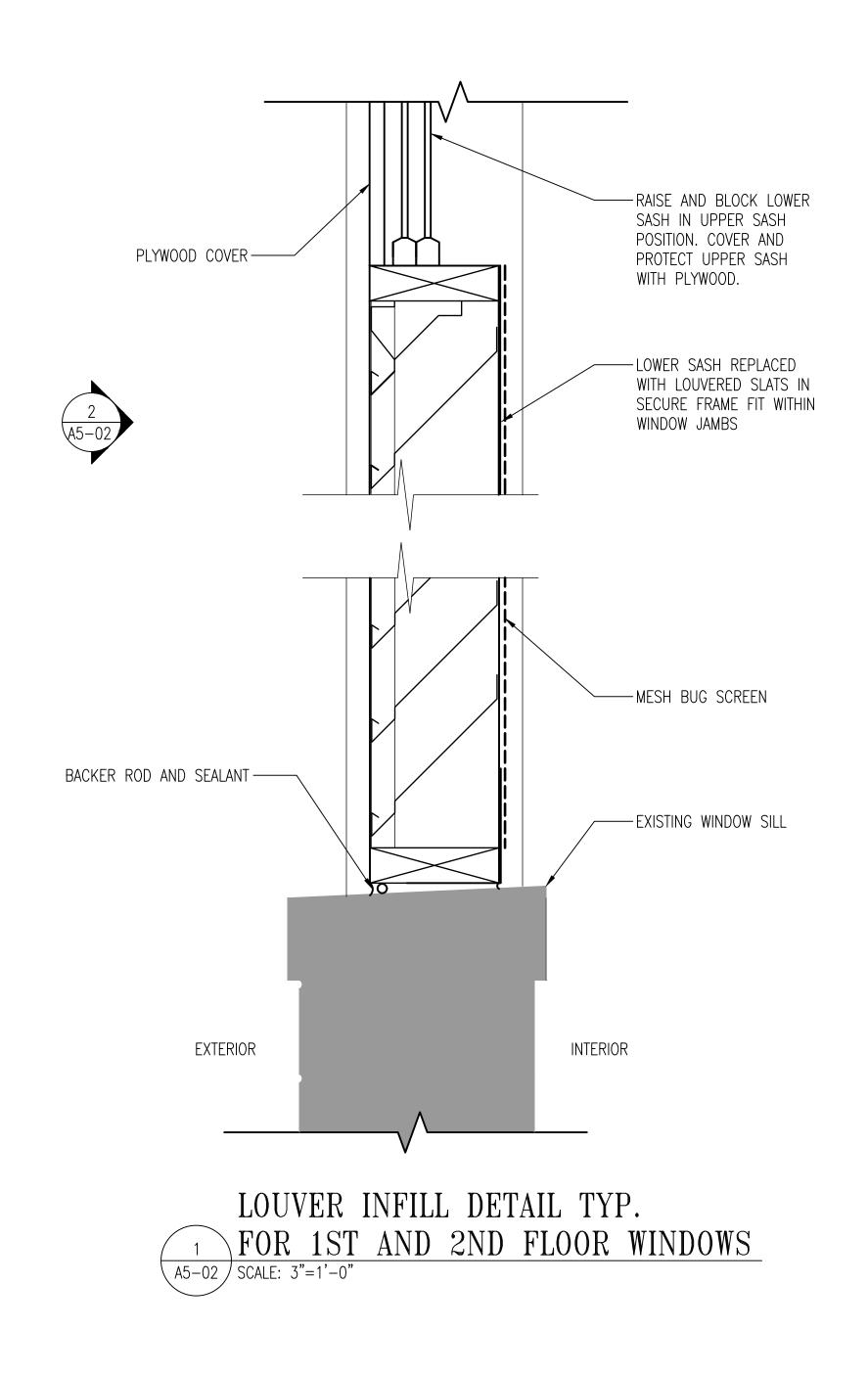


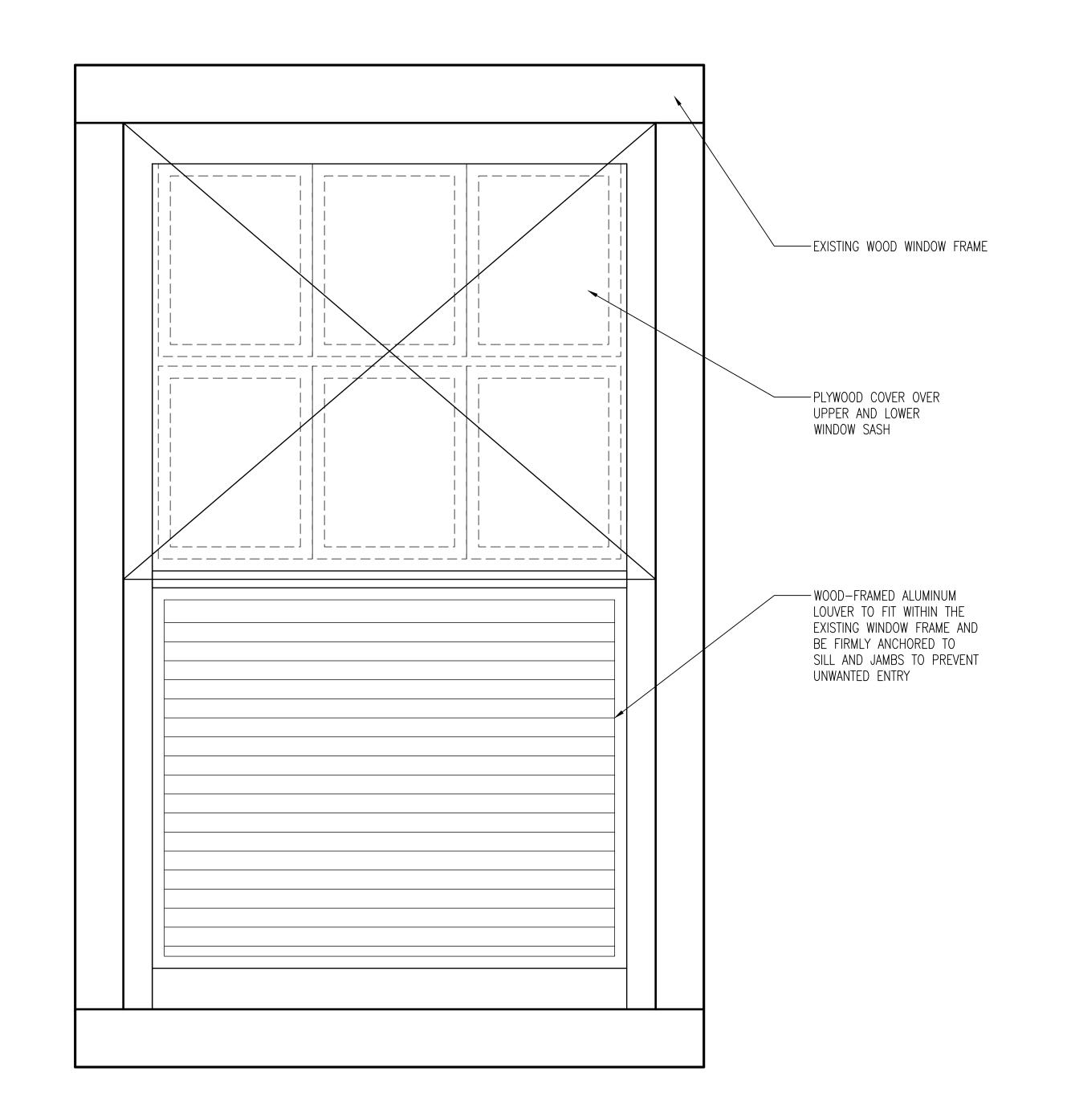
			MONTGOMERY COUNT DEPARTMENT OF TRANSPO GAITHERSBURG, MARYL	RTATION	A5
			RECOMMENDED FOR APPROVAL		
			Chief, Transportation Planning and Design Section APPROVED	Date	
			Chief, Division of Transportation Engineering	Date	SC
REVISION	DATE	BY	Designed by: <u>LJH</u> Drawn by: <u>FIE</u>	Checked by: FAH	Р

A5-01 SITE STAIR, BASEMENT DOOR, AND LOUVERS
HOYLE'S MILL
STRUCTURAL STABILIZATION
BOYDS, MARYLAND

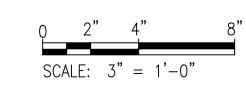
 SCALE: AS NOTED
 30 JAN 2025

 Project No.: 32207.003
 SHEET 6 of 11





2 LOUVER INFILL ELEVATION TYP. A5-02 | SCALE: 3"=1'-0"



Whitman, Requardt & Associates, LLP 801 South Caroline Street, Baltimore, Maryland 21231

Chief, Division of Transportation Engineering

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section

Checked by: FAH

Designed by: <u>LJH</u> Drawn by: <u>FIE</u>

A5-02 LOUVER ELEVATION AND SECTION HOYLE'S MILL STRUCTURAL STABILIZATION BOYDS, MARYLAND

SCALE : AS NOTED 30 JAN 2025 Project No. : <u>32207.003</u> SHEET <u>7</u> of 11

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GENERAL STRUCTURAL NOTES

<u>GENERAL</u>

- 1. THE SCOPE OF THIS PROJECT IS TO REINFORCE AND STABILIZE THE EXISTING HOYLE'S MILL STRUCTURE.
- 2. STABILIZATION OF THE HOYLE'S MILL STRUCTURE MUST OCCUR PRIOR TO THE MODIFICATIONS ASSOCIATED WITH THE TRANSPORTATION PROJECT AT THIS SITE. (TRANSPORTATION WORK IS NOT IN CONTRACT.)
- STRUCTURAL STABILIZATION WORK IN THESE DOCUMENTS WILL NOT MAKE HOYLE'S MILL SUITABLE FOR OCCUPANCY. IT IS ASSUMED BUILDING WILL REMAIN UNOCCUPIED. ADDITIONAL STRUCTURAL MODIFICATIONS THAT ARE OUTSIDE OF THE SCOPE OF THIS PROJECT WOULD BE REQUIRED FOR A FUTURE ADAPTIVE REUSE OF THIS BUILDING.
- 4. FIELD VERIFY DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON DRAWINGS FOR EXISTING STRUCTURES. BRING DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 5. AVOID DAMAGING EXISTING HOYLE'S MILL BUILDING DURING THE WORK. ANY DAMAGES TO HOYLE'S MILL CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 6. COORDINATE ACTIVITIES WITH THE OWNER.
- THE DRAWINGS SHOW THE FINAL CONDITION OF THE STRUCTURE. PROVIDE MEANS TO STABILIZE THE STRUCTURE DURING TEMPORARY CONDITIONS.
- 8. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DO NOT OBTAIN DIMENSIONAL INFORMATION FROM DIRECT SCALING OF THE DRAWINGS.
- 9. SPECIAL INSPECTIONS MUST BE PERFORMED BY A THIRD-PARTY SPECIAL INSPECTOR HIRED BY THE OWNER. SPECIAL INSPECTIONS MUST BE IN ACCORDANCE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES SPECIAL INSPECTIONS PROGRAM AND THE STATEMENT OF SPECIAL INSPECTIONS FOR THIS PROJECT.
- 10. DUE TO THE CONDITION OF THE FOUNDATION OF HOYLE'S MILL, THE GRADING DIRECTLY IN FRONT OF THE BUILDING ON THE NORTH AND EAST ELEVATIONS IS UNSTABLE. UNTIL RECOMMENDED TO AVOID PARKING AND DRIVING VEHICLES NEAR THE BUILDING TO PREVENT SOIL FROM MIGRATING INTO THE HOYLE'S MILL CRAWLSPACE. THE APPROPRIATE SAFE DISTANCE FROM THE BUILDING FACE MUST BE DETERMINED BY THE CONTRACTOR AS PART OF THEIR MEANS AND METHODS.
- 11. VIBRATION CAUSED BY CONSTRUCTION OF THE HELICAL PILES OR BY SUPPORT VEHICLES MUST NOT EXCEED ACCEPTABLE VIBRATION LEVELS CONTAINED IN THE PRECONSTRUCTION SURVEY WRITTEN REPORT FOR HOYLE'S MILL BUILDING OR THE VIBRATION LEVELS PROVIDED UNDER SECTION 400-02.03.04, WHICHEVER ARE LOWER.

SHALLOW FOUNDATIONS

- DESIGN OF SHALLOW FOUNDATIONS IS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL MEMORANDUM BY WRA DATED FEBRUARY 1, 2024.
- 2. SHALLOW FOUNDATIONS MUST BEAR UPON UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 3000 PSF. OBTAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF MARYLAND WHO IS RESPONSIBLE FOR VERIFICATION OF THE SPECIFIED MINIMUM ALLOWABLE BEARING CAPACITY AT FACH FOOTING.
- 3. SHALLOW FOUNDATION ELEVATIONS SHOWN ON THE DRAWINGS ARE MINIMUM EXCAVATION DEPTHS. EXCAVATE FURTHER AS REQUIRED TO REMOVE UNSATISFACTORY SOILS TO A LAYER WITH THE MINIMUM SPECIFIED ALLOWABLE BEARING CAPACITY. WHERE REQUIRED, PROVIDE COMPACTED ENGINEERED FILL TO ACHIEVE THE REQUIRED SUBGRADE ELEVATIONS. NOTIFY THE ENGINEER OF ANY CONDITIONS THAT REQUIRE CHANGES IN FOUNDATION FI FVATIONS.
- 4. PLACE SHALLOW FOUNDATIONS ON THE SAME DAY THAT THE BEARING SURFACE IS INSPECTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER. ANY BEARING SURFACE NOT PLACED ON THE SAME DAY OF INITIAL INSPECTION MUST BE RE-INSPECTED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER ON THE DAY CONCRETE IS PLACED.
- 5. KEEP EXCAVATIONS DRY.
- 6. MINIMUM DEPTH BELOW GRADE FOR BOTTOM OF FOUNDATIONS FOR FROST PROTECTION IS 30 INCHES.
- DO NOT PLACE BACKFILL AGAINST SUBSTRUCTURE WALLS UNTIL WALL CONCRETE ACHIEVES ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH USING FIELD-CURED CYLINDERS.
- PROVIDE SUPPORT OF EXCAVATIONS REQUIRED TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. SUPPORT OF EXCAVATION SYSTEMS MUST BE DESIGNED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER.

CONCRETE

- PROVIDE NORMAL—WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- 2. CONCRETE MUST BE AIR ENTRAINED.
- 3. DETAIL AND CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", AND AS SPECIFIED HEREIN.
- 4. DETAIL REINFORCING STEEL IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" AND ACI SP-66. "ACI DETAILING MANUAL."
- 5. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A615. GRADE 60. DEFORMED
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS: A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, FILL: 3" B. CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH: EARTH OR FILL: 2
- 7. SUBMIT REINFORCING STEEL DETAILS AND JOINT LAYOUT (SHOP DRAWINGS) AND RECEIVE APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH FABRICATION
- 8. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS NOTED OTHERWISE.
- 9. COLD WEATHER PLACEMENT OF CONCRETE MUST BE IN ACCORDANCE WITH ACI 306R. ACI 306.1. AND THE SPECIFICATIONS.
- 10. HOT WEATHER PLACEMENT OF CONCRETE MUST BE IN ACCORDANCE WITH ACL 305R. ACI 305.1. AND THE SPECIFICATIONS.

ADHESIVE ANCHORS

- THE NEW BASEMENT WALLS ARE CONSTRUCTED AND BACKFILLED AGAINST, CONTRACTOR IS 1. THE ADHESIVE ANCHOR SYSTEM USED FOR POST INSTALLED ANCHORAGE TO CONCRETE MUST CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY PUBLISHED ACI 355.4, "ACCEPTANCE CRITERIA FOR QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE AND COMMENTARY." EACH ADHESIVE ANCHOR SYSTEM MUST SATISFY THE STRENGTH REQUIREMENTS FOR ITS USE. BULK-MIXED ADHESIVES ARE NOT PERMITTED. ADHESIVE ANCHORAGE DESIGN IS IN ACCORDANCE WITH ACI 318-14. ADHESIVE ANCHORS IN CONCRETE MUST BE QUALIFIED FOR USE IN CRACKED CONCRETE IN ACCORDANCE WITH ACI 355.4. PROVIDE THE FOLLOWING ANCHOR SYSTEMS, OR APPROVED EQUALS:
 - A. ANCHORAGE TO CONCRETE
 - i. HILTI HIT-HY 200 V3 WITH HILTI HIT-Z-R ROD OR HAS-R THREADED ROD.
 - 2. PROVIDE TYPE 316 STAINLESS STEEL ANCHORS.
 - 3. CONCRETE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION MUST HAVE A MINIMUM AGE OF 21 DAYS.
 - 4. INSTALL ADHESIVE ANCHORS WITH A MINIMUM EDGE DISTANCE OF 3 INCHES TO ANY FREE EDGE OF CONCRETE, OR EDGE DISTANCE INDICATED ON DRAWINGS, WHICHEVER IS GREATER.
 - 5. INSTALL ADHESIVE ANCHORS WITH TRAINED QUALIFIED PERSONNEL, IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
 - PROVIDE THOROUGHLY CLEANED ANCHOR HOLES PRIOR TO ADHESIVE INJECTION, AS REQUIRED BY THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. PROTECT DRILLED AND CLEANED ANCHOR HOLES FROM CONTAMINATION UNTIL THE ADHESIVE IS INSTALLED.
 - PROVIDE ANCHORS CLEAN, OIL-FREE, AND FREE OF LOOSE RUST, PAINT, OR OTHER COATINGS.
 - 8. PROVIDE INSTALLED ADHESIVE ANCHORS SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES.
 - 9. THE ENGINEER MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
 - 10. DO NOT DAMAGE EXISTING REINFORCING STEEL IN THE CONCRETE DURING ANCHOR INSTALLATION. UNLESS OTHERWISE NOTED ON THE DRAWINGS. PRIOR TO ANCHOR INSTALLATION. DETERMINE LOCATION OF EXISTING REINFORCING STEEL BY NON-DESTRUCTIVE MEANS AND NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN REINFORCING STEEL AND ANCHOR LOCATION PRIOR TO FABRICATION OF MATERIALS.
 - 11. DESIGN BASIS FOR ADHESIVE ANCHORS IS INDICATED ABOVE. SUBSTITUTIONS WILL BE CONSIDERED, BUT PRODUCT MUST MEET OR EXCEED ALL CRITERIA OF THE SPECIFIED ANCHOR. SUBSTITUTION REQUESTS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO USE. PROVIDE PRODUCT DATA AND CALCULATIONS DEMONSTRATING THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE. INSTALLATION CATEGORY. AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP. IN-SERVICE TEMPERATURES AND INSTALLATION TEMPERATURE.

PROFESSIONAL CERTIFICATION.

OF MARYLAND, LICENSE NO.

EXPIRATION DATE: XX/XX/XXXX

HELICAL PILES

- HELICAL PILE FOUNDATIONS MUST BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND. WITH AT LEAST 10 YEARS EXPERIENCE IN THE DESIGN OF HELICAL PILES. SUBMIT QUALIFICATIONS FOR REVIEW AND APPROVAL
- HELICAL PILE FOUNDATIONS MUST BE 2-1/4 INCH DIAMETER SS225 PILE SERIES HELICAL PILE SHAFTS OR APPROVED EQUAL. PROVIDE MAXIMUM HELIX PLATE DIAMETER OF 14".
- PROVIDE HELICAL PILES AT THE LOCATIONS AND ELEVATIONS SHOWN WITH A MINIMUM ULTIMATE COMPRESSIVE CAPACITY OF 53 KIPS PER PILE. HELICAL PILES MUST HAVE AN ALLOWABLE COMPRESSIVE CAPACITY OF 17.5 KIPS PER PILE. ALLOWABLE PILE COMPRESSIVE CAPACITIES MUST BE ESTABLISHED AND VERIFIED BASED ON FINAL INSTALLATION TORQUE WITH A MINIMUM FACTOR OF SAFETY OF 3.0.
- 4. HELICAL PILE FOUNDATIONS MUST EXTEND A MINIMUM LENGTH OF 23.0 FEET BELOW THE BOTTOM OF THE EXISTING CONCRETE WALL TO BE SUPPORTED.
- 5. INSTALLATION OF HELICAL PILE FOUNDATIONS MUST BE PERFORMED BY A QUALIFIED EXPERIENCED INSTALLER WHO SPECIALIZES IN HELICAL PILE WORK. INSTALLER MUST HAVE A MINIMUM OF FIVE YEARS OF EXPERIENCE INSTALLING HELICAL PILES ON PROJECTS OF SIMILAR SIZE AND SCOPE. PROVIDE A LIST OF AT LEAST THREE PROJECTS USING HELICAL PILE FOUNDATIONS COMPLETED WITHIN THE LAST FIVE YEARS.
- INSTALLATION EQUIPMENT MUST BE A ROTARY TYPE, HYDRAULIC POWER-DRIVEN TORQUE MOTOR WITH CLOCKWISE AND COUNTER-CLOCKWISE ROTATION CAPABILITY. MOTOR MUST BE A HIGH TORQUE, LOW REVOLUTIONS PER MINUTE (RPM) MOTOR WITH THE ABILITY TO ADJUST RPM DURING INSTALLATION. TORQUE MOTOR MUST HAVE A TORQUE CAPACITY AT LEAST 15 PERCENT GREATER THAN THE FINAL INSTALLATION TORQUE REQUIRED FOR THE PROJECT.
- CONTRACTOR MUST PREPARE AND SUBMIT TO THE ENGINEER FOR APPROVAL, HELICAL PILE MANUFACTURER AND PRODUCT INFORMATION, INSTALLER QUALIFICATIONS AND EQUIPMENT. AND HELICAL PILE FOUNDATION DESIGN ENGINEER QUALIFICATIONS AT LEAST 30 CALENDAR DAYS PRIOR TO THE PLANNED START OF INSTALLATION.
- 8. CONTRACTOR'S APPROVED HELICAL PILE FOUNDATION DESIGN ENGINEER MUST PREPARE AND SUBMIT TO THE ENGINEER FOR APPROVAL, A HELICAL PILE FOUNDATION DESIGN REPORT WITH CALCULATIONS, SHOP DRAWINGS, DETAILS AND SPECIFICATIONS FOR THE HELICAL PILES PROPOSED FOR USE ON THIS PROJECT; PLANNED PILE INSTALLATION DEPTH AND CONFIGURATION, MINIMUM FINAL PILE INSTALLATION TORQUE, AND REQUIREMENTS FOR CORROSION PROTECTION AT LEAST 14 CALENDAR DAYS PRIOR TO THE PLANNED START OF INSTALLATION.
- THE AVERAGE TORQUE FOR THE LAST THREE FEET OF PENETRATION MUST BE USED AS THE BASIS OF COMPARISON WITH THE MINIMUM INSTALLATION TORQUE AS REQUIRED. THE AVERAGE TORQUE MUST BE DEFINED AS THE AVERAGE OF THE LAST THREE READINGS RECORDED AT ONE FOOT INTERVALS.
- 10. UPON COMPLETION OF THE HELICAL PILE INSTALLATION, PROVIDE THE OWNER WITH COPIES OF THE PILE INSTALLATION LOGS. MAINTAINED DURING CONSTRUCTION. CONFIRMING THE HELICAL PILE CONFIGURATION, DEPTH OF INSTALLATION, AND RECORDED FINAL INSTALLATION TORQUE VALUES.
- 11. PROVIDE THE OWNER WITH A CERTIFICATION PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND, STATING THAT THE HELICAL PILES AS INSTALLED HAVE THE CAPACITY TO SUPPORT THE STRUCTURE AND THAT THE ALLOWABLE HELICAL PILE CAPACITIES HAVE BEEN VERIFIED.

RECOMMENDED SEQUENCES OF DEMOLITION AND CONSTRUCTION

- 1. INSTALL HELICAL PILES TO SUPPORT EXISTING NORTH AND EAST WALLS.
- 2. INSTALL TEMPORARY SHORING OF FIRST FLOOR FRAMING WITHIN CRAWLSPACE.
- CONCRETE WALLS ON NORTH AND EAST ELEVATIONS.
- 4. REMOVE ALL TRASH AND DEBRIS, AND WELL ENCLOSURE AND EQUIPMENT, FROM CRAWLSPACE AREA. CAP AND ABANDON EXISTING WELL.
- DEMOLISH EXISTING STONE MASONRY FOOTINGS FOR NORTH AND EAST WALLS. DEMOLISH EXISTING LARGE CONCRETE MASS. DEMOLISH METAL SHED AND FOOTINGS.

RECOMMENDED SEQUENCES OF DEMOLITION AND CONSTRUCTION (CONTINUED)

- FOR THE SECTION OF THE SOUTH WALL FOUNDED ON A STONE MASONRY FOOTING, DEMOLISH THE STONE MASONRY FOOTING, EXCAVATE TO THE BOTTOM ELEVATION OF THE NEW FOOTINGS, AND PLACE NEW CONCRETE FOOTINGS. PERFORM THIS WORK IN STAGES TO LIMIT THE LEGNTH OF THE EXISTING FOOTING REMOVED AT ANY ONE TIME, AND PROVIDE TEMPORARY SHORING AS NEEDED.
- 8. CONSTRUCT NEW CONCRETE SITE STAIR AND CHEEK WALLS.
- PERFORM THE REMAINDER OF THE WORK INDICATED WITHIN THE CONTRACT DOCUMENTS.

DESIGN LOADS AND CRITERIA

ALL LOADS INDICATED BELOW ARE UNFACTORED. LOADS INDICATED BELOW WERE USED FOR THE DESIGN OF THE FOUNDATION ELEMENTS FOR THE STRUCTURAL STABILIZATION DETAILED IN THESE DRAWINGS. EXISTING SUPERSTRUCTURE HAS NOT BEEN ANALYZED FOR ITS CAPACITY TO SUPPORT THESE LOADS. DESIGN OF THE STRUCTURAL STABILIZATION WORK ASSUMES BUILDING WILL REMAIN UNOCCUPIED. RE-ANALYSIS OF THE STRUCTURE WILL BE REQUIRED FOR ANY FUTURE ADAPTIVE REUSE OF THE BUILDING.

RISK CATEGORY: II

2. DEAD LOADS:

- STRUCTURES: ACTUAL WEIGHT
- WEIGHT OF SOIL 100 PCF FOR RESISTING UPLIFT
- WEIGHT OF SOIL 120 PCF FOR DEAD LOAD D. EARTH PRESSURE COEFFICIENTS:
- i. AT-REST: KO = 0.5
- ii. ACTIVE: KA = 0.33iii. PASSIVE: KP = 3.0
- E. SUPERIMPOSED DEAD LOAD: 20 PSF ROOF:
- ii. 2ND FLOOR: 20 PSF iii. 1ST FLOOR: 20 PSF
- iv. SUPERIMPOSED DEAD LOAD INCLUDES COMBINED WEIGHT OF ALL ASSUMED PERMANENT NON-STRUCTURAL COMPONENTS SUPPORTED BY THE FRAMING. INCLUDING MEP COMPONENTS, ROOFING, FLOOR AND CEILING FINISHES, AND SPRINKLERS FOR A FUTURE ADAPTIVE REUSE OF THE BUILDING.
- 3. LIVE LOADS: (DESIGN LIVE LOADS USED FOR THE DESIGN OF THE FOUNDATION MODIFICATIONS. SUPERSTRUCTURE HAS NOT BEEN ANALYZED TO VERIFY LIVE LOAD CAPACITY)
 - 100 PSF FIRST FLOOR:
 - SECOND FLOOR: 100 PSF
- 100 PSF ATTIC SPACE: STAIRS AND LANDINGS: 100 PSF
- GUARDRAILS AND HANDRAILS 200 LBS AT EACH POST OR 50 PLF ALONG THE TOP RAIL. WHICHEVER IS GREATER.

MAXIMUM EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT SHORT

SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.144; SD1 = 0.069

C. MAXIMUM EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND:

BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAME (WOOD) BEARING

4. ROOF LIVE LOAD: 30 PSF

5. ROOF SNOW LOAD:

- A. GROUND SNOW LOAD (PG): 30 PSF
- EXPOSURE FACTOR (CE): 1.0
- C. THERMAL FACTOR (CT): 1.2

C. EXPOSURE CATEGORY: C

PERIODS: SS=0.135G

SITE CLASSIFICATION: D

G. SEISMIC DESIGN CATEGORY: B

WALLS WITH SHEAR PANELS.

RESPONSE MODIFICATION FACTOR: R=2

S1=0.043G

- D. SNOW LOAD IMPORTANCE FACTOR (IS): 1.0
- E. SLOPED ROOF SNOW LOAD (PS): 25.2 PSF

A. ULTIMATE WIND SPEED (VULT): 115 MPH

B. NOMINAL WIND SPEED (VASD): 89 MPH

INTERNAL PRESSURE COEFFICIENT: +/- 0.18

E. COMPONENTS AND CLADDING: PER ASCE 7-16

SEISMIC IMPORTANCE FACTOR (IE): 1.0

SITE SEISMIC COEFFICIENT: FA=1.6; FV=2.4

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

6. WIND LOAD:

7. SEISMIC LOAD:

- 3. INSTALL STEEL CHANNELS AND ANGLES WITH THROUGH-BOLTS ALONG EXISTING
- CONCRETE PAD UNDER METAL SHED. DEMOLISH EXISTING SITE STAIR AND CHEEK WALLS. AND EXCAVATE BELOW WALLS TO THE BOTTOM ELEVATION OF THE NEW
- INSTALL REINFORCEMENT, FORMWORK, AND PLACE CONCRETE FOR CONTINUOUS WALL FOOTINGS FOR NORTH AND EAST WALLS.

DELEGATED DESIGN

- DESIGN AND DETAILING RESPONSIBILITY FOR THE FOLLOWING ENGINEERED SYSTEMS AND COMPONENTS IS DELEGATED TO A QUALIFIED PROFESSIONAL ENGINEER, SELECTED AND HIRED BY THE CONTRACTOR. THESE SYSTEMS AND COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO:
- A. GUARDRAILS AND HANDRAILS
- TEMPORARY SUPPORT OF EXCAVATION AND STRUCTURES
- CONCRETE FORMWORK AND SHORING
- D. HELICAL PILES
- DELEGATED DESIGN ITEMS MUST COMPLY WITH THE APPLICABLE DESIGN CODES, STANDARDS, CRITERIA, AND LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS.
- PROVIDE CALCULATIONS AND SHOP DRAWINGS FOR DELEGATED DESIGN ITEMS, STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND, UNLESS OTHERWISE NOTED. SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR REVIEW AND APPROVAL

CODES AND STANDARDS

- MARYLAND BUILDING PERFORMANCE STANDARDS (MBPS).
- 2. INTERNATIONAL BUILDING CODE IBC (2018), INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION
- INTERNATIONAL EXISTING BUILDING CODE IEBC (2018). INCLUDING THE MODIFICATIONS MADE BY LOCAL JURISDICTION
- 4. AMERICAN CONCRETE INSTITUTE ACI 318 (2014), "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- 5. AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7 (2016), "MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES"

STRUCTURAL ABBREVIATIONS

- AMERICAN CONCRETE INSTITUTE AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY FOR TESTING MATERIALS AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE ARCH ARCHITECT **APPROXIMATE**

COL

- CONC CONCRETE CONCRETE REINFORCING STEEL INSTITUTE
- DEMO DEMOLITION / DEMOLISH

COLUMN

- DET
- DWG DRAWING
- EQUAL
- **ELEVATION ENGR ENGINEER**
- **EXIST** EXISTING EACH FACE
- EACH WAY
- FDN FOUNDATION FOOT/FEET
- INTERNATIONAL BUILDING CODE

HORIZONTAL

- MINIMUM
- POUNDS PER SQUARE INCH

STRUCTURAL

- RIGHT OF WAY
- TYPICAL

STRUCT

- VERIFY IN FIELD
- VERTICAL

APPROVED

REVISION

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG. MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section

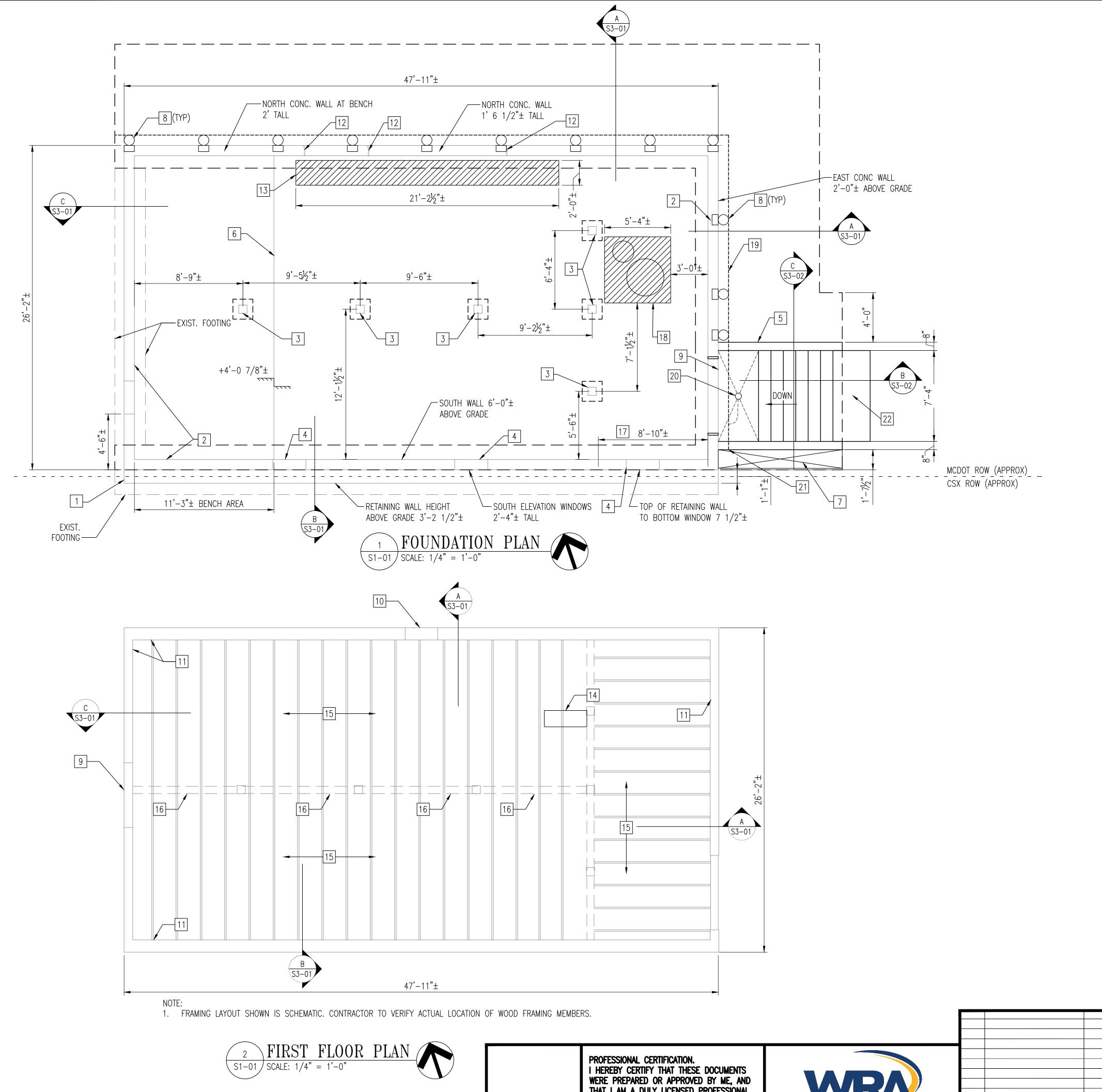
Chief, Division of Transportation Engineering

Designed by: <u>BMB</u> Drawn by: <u>AH</u>

SO-01 STRUCTURAL GENERAL NOTES AND **ABBREVIATIONS** HOYLE'S MILL STRUCTURAL STABILIZATION BOYDS, MARYLAND

SCALE : NTS 30 JAN 2025 Project No. : 32207.003 SHEET <u>8</u> of 11 Checked by: BE

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME. AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE Whitman, Requardt & Associates, LLP 801 South Caroline Street, Baltimore, Maryland 21231



GENERAL SHEET NOTES

- 1. REFER TO SHEET SO-01 FOR STRUCTURAL GENERAL NOTES, BUILDING CODES AND STANDARDS, AND DESIGN LOADS.
- 2. ALL DIMENSIONS INDICATED ARE APPROXIMATE. FIELD VERIFY DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON DRAWINGS FOR EXISTING STRUCTURES. BRING DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.
- 3. COORDINATE WORK WITH ARCHITECTURAL DRAWINGS.
- 4. THE EXISTING STRUCTURE IS IN VERY POOR CONDITION, AND ACCESS TO THE BUILDING IS DANGEROUS. CONTRACTOR MUST PROVIDE HELICAL PILES AND TEMPORARY SHORING WITHIN THE BASEMENT AREA PRIOR TO BEGINNING WORK WITHIN THE BASEMENT. HELICAL PILES AND TEMPORARY SHORING MUST BE DESIGNED AND PROVIDED BY THE CONTRACTOR.
- 5. THERE IS NO STRUCTURAL SCOPE ON THE SECOND FLOOR NOR THE ROOF

X SHEET KEYNOTES

- 1. EXISTING SITE RETAINING WALL ADJACENT TO EXTERIOR WALL TO REMAIN.
- 2. EXISTING EXTERIOR CONCRETE WALL ON MASONRY FOOTINGS TO REMAIN.
- 3. EXISTING WOOD BUILDING COLUMN TO REMAIN.
- 4. EXISTING WINDOW OPENING TO REMAIN.
- 5. DEMOLISH EXISTING STAIR AND CHEEK WALLS (SEE SHEET A1-01). PROVIDE NEW STAIR, CHEEK WALLS, AND GUARDRAILS AND HANDRAILS (SEE SHEET A5-01). DESIGN OF GUARDRAILS AND HANDRAILS IS DELEGATED TO CONTRACTOR'S ENGINEER.
- 6. ELEVATION CHANGE IN EXISTING UNFINISHED BASEMENT FLOOR.
- 7. 10'-0" LONG X 1'-6" WIDE X 4'-0" DEEP DRYWELL. WRAP PERIMETER OF DRYWELL WITH GEOTECHNICAL FILTER FABRIC AND FILL WITH #57 GRAVEL.
- 8. HELICAL PILES SPACED AT 6'-0" +/- TO SUPPORT EXISTING CONCRETE FOUNDATION WALL. DESIGN OF HELICAL PILE FOUNDATION SYSTEM IS DELEGATED TO CONTRACTOR'S ENGINEER.
- 9. DEMOLISH EXISTING DOUBLE DOOR. PROVIDE NEW DOUBLE DOOR. SEE SHEET A5-01.
- 10. EXISTING DOOR TO REMAIN.
- 11. EXISTING EXTERIOR WOOD-FRAMED WALLS TO REMAIN.
- 12. EXISTING FULL-DEPTH, FULL-WIDTH CRACK IN EXISTING CONCRETE WALL. PROVIDE CONTINUOUS SUPPORT PER DETAIL A/S3-02 ALONG NORTH AND EAST WALLS PRIOR TO DEMOLITION OF EXISTING STONE RUBBLE FOUNDATIONS FOR THESE WALLS.
- 13. DEMOLISH, REMOVE, AND DISPOSE OF EXISTING LARGE CONCRETE MASS.
- 14. PATCH HOLE IN FLOOR LOCATED IN FRONT OF EXISTING STAIR WITH 3/4" THICK PLYWOOD.
- 15. EXISTING 1/2" THICK WOOD BOARDS ON 2"X8" WOOD JOISTS SPACED AT 22" +/- ON CENTER.
- 16. EXISTING 7" WIDE X 9" DEEP WOOD GIRDER.
- 17. DIMENSION INDICATES EXTENTS OF EXISTING 6' +/- TALL CONCRETE WALL. IN THIS REGION, KEEP EXISTING CONCRETE WALL. DEMOLISH EXISTING STONE MASONRY FOUNDATION AND PROVIDE NEW CONCRETE FOUNDATION SIMILAR TO FOUNDATION IN SECTION B/S3-01.
- 18. DEMOLISH EXISTING WELL EQUIPMENT AND WELL ENCLOSURE. CAP EXISTING WELL AND ABANDON IN PLACE.
- 19. CONTINUOUS FOUNDATION DRAIN (FRENCH DRAIN), SLOPE TO DRYWELL IN SOUTHEAST CORNER OF BUILDING FOOTPRINT.
- 20. 6" THICK CONCRETE STAIR LANDING WITH #4@12 EACH WAY, TOP BARS. SLOPE STAIR LANDING TO DRAIN, TIE DRAIN PIPE TO CONTINUOUS FOUNDATION DRAIN.
- 21. TERMINATE END OF THE FOUNDATION DRAIN INTO THE DRYWELL.
- 22. 6" THICK CONCRETE STAIR LANDING WITH #4@12 EACH WAY.

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section

Checked by: <u>BE</u>

Chief, Division of Transportation Engineering

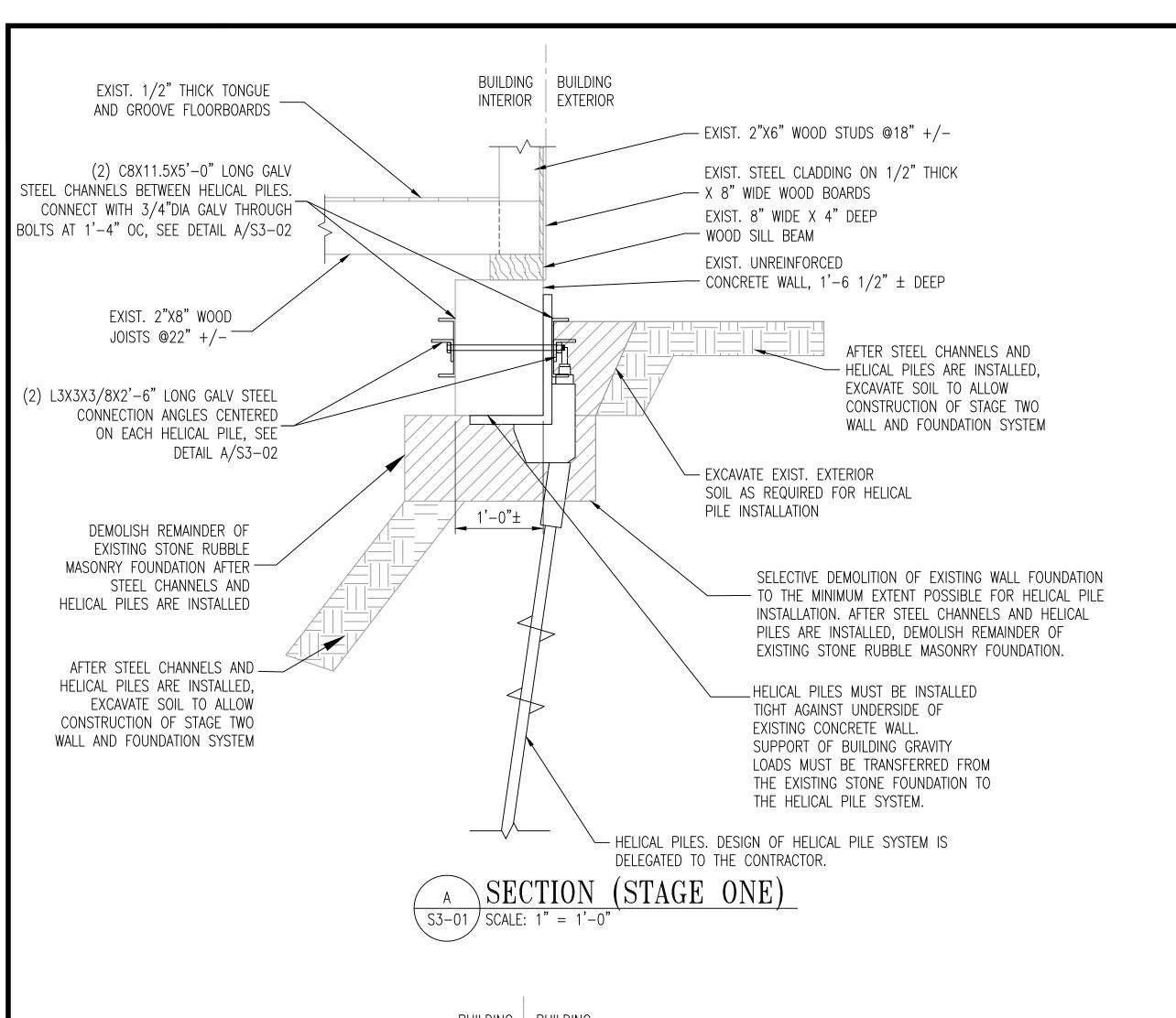
Designed by: <u>BMB</u> Drawn by: <u>AH</u>

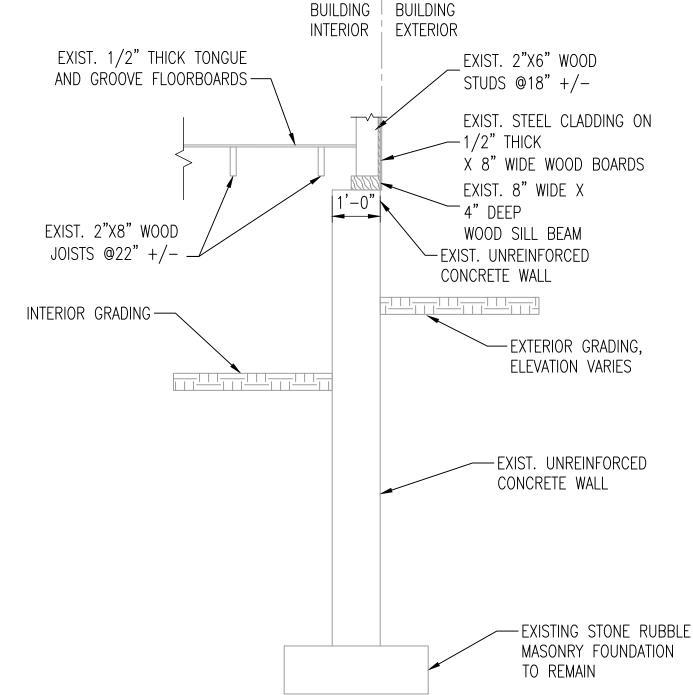
S1-01 BASEMENT PLAN AND FIRST FLOOR PLAN HOYLE'S MILL STRUCTURAL STABILIZATION BOYDS, MARYLAND

SCALE : 1/4" = 1'-0"30 JAN 2025 Project No. : <u>32207.003</u> SHEET <u>9</u> of 11

THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. EXPIRATION DATE: XX/XX/XXXX

Whitman, Requardt & Associates, LLP 801 South Caroline Street, Baltimore, Maryland 21231

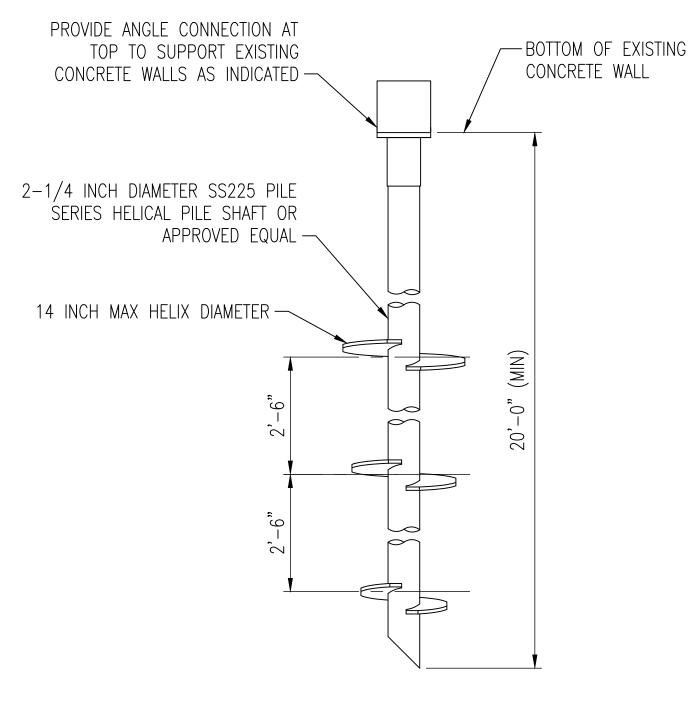




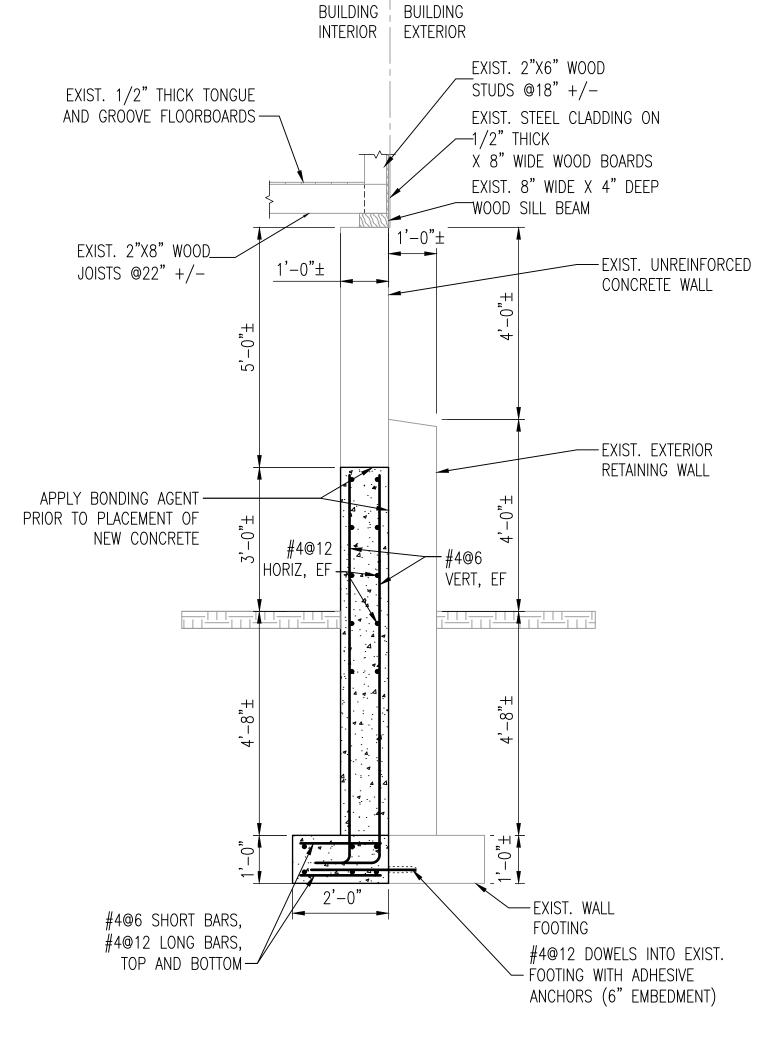
NOTE: NO MODIFICATIONS TO THIS WALL ARE REQUIRED FOR STRUCTURAL STABILIZATION. ASSUMED WALL SECTION IS PROVIDED FOR INFORMATION ONLY.

BUILDING BUILDING INTERIOR | EXTERIOR 1'-0"± ___SLOPE TOP OF WALL, 2 HORIZ:1 VERT — BACKFILL TO ORIGINAL GRADE ELEVATION, DO NOT BACKFILL UNTIL CONCRETE WALL REACHES 28-DAY DESIGN STRENGTH - APPLY BONDING AGENT PRIOR TO PLACEMENT OF NEW CONCRETE -WATERPROOFING MEMBRANE BELOW GRADE, SEE ARCH DWGS -KEEP HELICAL PILES AND STEEL CHANNELS IN PLACE, #6@12 EMBED IN CONCRETE WALL VERT, EF — (PROVIDE 2" MIN CONCRETE COVER FOR STEEL COMPONENTS AND WALL REINFORCEMENT IN ALL DIRECTIONS) -1'-6" GRAVEL BACKFILL #5@12 ᠳ HORÏZ, EF-- DOWELS TO MATCH VERTICAL REINF —FOUNDATION DRAIN ─#7@12 SHORT BARS, TOP -#5@12 LONG BARS, TOP AND BOTTOM

NOTE: DO NOT BACKFILL AGAINST WALL UNTIL CONCRETE REACHES 28-DAY DESIGN STRENGTH, VERIFIED BY TESTING FIELD-CURED CYLINDERS.



D TYPICAL HELICAL PILE
S3-01 SCALE: NOT TO SCALE



NOTES: 1. DEMOLISH ALL EXISTING STONE MASONRY COMPONENTS OF THE SOUTH WALL AND FOOTING. EXISTING CONCRETE WALL COMPONENTS TO REMAIN.

- 2. PROVIDE TEMPORARY SHORING PRIOR TO COMMENCING DEMOLITION WORK NEEDED TO INSTALL NEW CONCRETE WALL AND FOUNDATION. TEMPORARY SHORING DESIGN BY CONTRACTOR.
- 3. SECTION SHOWS ASSUMED EXISTING CONDITIONS, TO BE VERIFIED IN THE FIELD. ALIGN BOTTOM ELEVATION OF NEW FOOTING WITH EXISTING FOOTING.



	LAP SPLICE LENGTH					
BAR	SLAB AND WALL BEAM			M		
SIZE	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS		
#3	12"	13"	12"	13"		
#4	14"	18"	17"	22"		
#5	17"	22"	25"	32"		
#6	20"	26"	34"	44"		
#7	33"	43"	49"	63"		
#8	42"	54"	56"	72"		
#9	52"	67 "	63"	81"		
#10	63"	82"	71"	92"		
#11	75"	97"	78"	102"		

Designed by: <u>BMB</u> Drawn by: <u>AH</u>

LAP SPLICE NOTES:

CONCRETE: 5000 PSI COMPRESSIVE STRENGTH (NORMAL WEIGHT CONCRETE), CLASS B LAP SPLICES.

SLAB AND WALL: 6" MINIMUM BAR SPACING WITH CONCRETE COVER = 1.5" CLEAR.

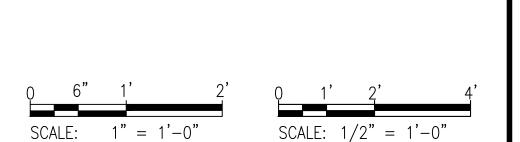
BEAM: MINIMUM CLEAR SPACING BETWEEN BARS = 1.5 DB (BAR DIAMETER). MINIMUM CONCRETE COVER = 1.5"
CLEAR. MINIMUM STIRRUP #4@12 PROVIDED.

TOP BAR: HORIZONTAL REINFORCING PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE.

E LAP SPLICE LENGTH TABLE
S3-01 SCALE: NOT TO SCALE

Checked by: <u>BE</u>

C SECTION S3-01 SCALE: 1/2" = 1'-0"



PROFESSIONAL CERTIFICATION.

I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO.
EXPIRATION DATE: XX/XX/XXXX



P					
31					
, 1	NO.	REVISION	DATE	BY	-

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED

Chief, Division of Transportation Engineering

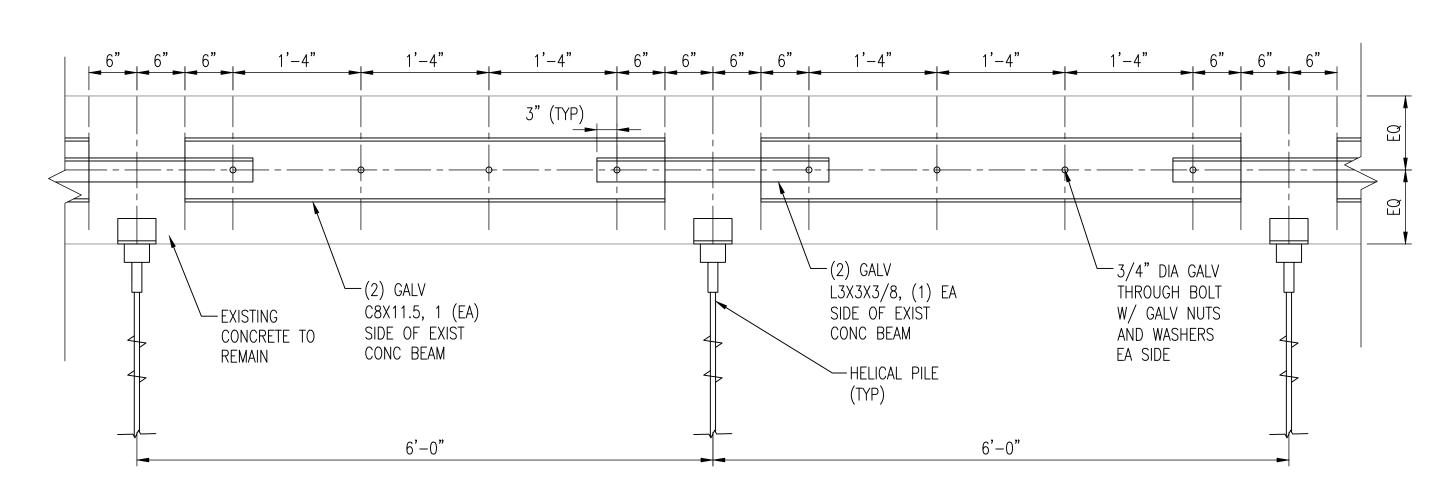
Date

SCALE

S3-01 BUILDING SECTIONS
HOYLE'S MILL
STRUCTURAL STABILIZATION
BOYDS, MARYLAND

 SCALE: AS NOTED
 30 JAN 2025

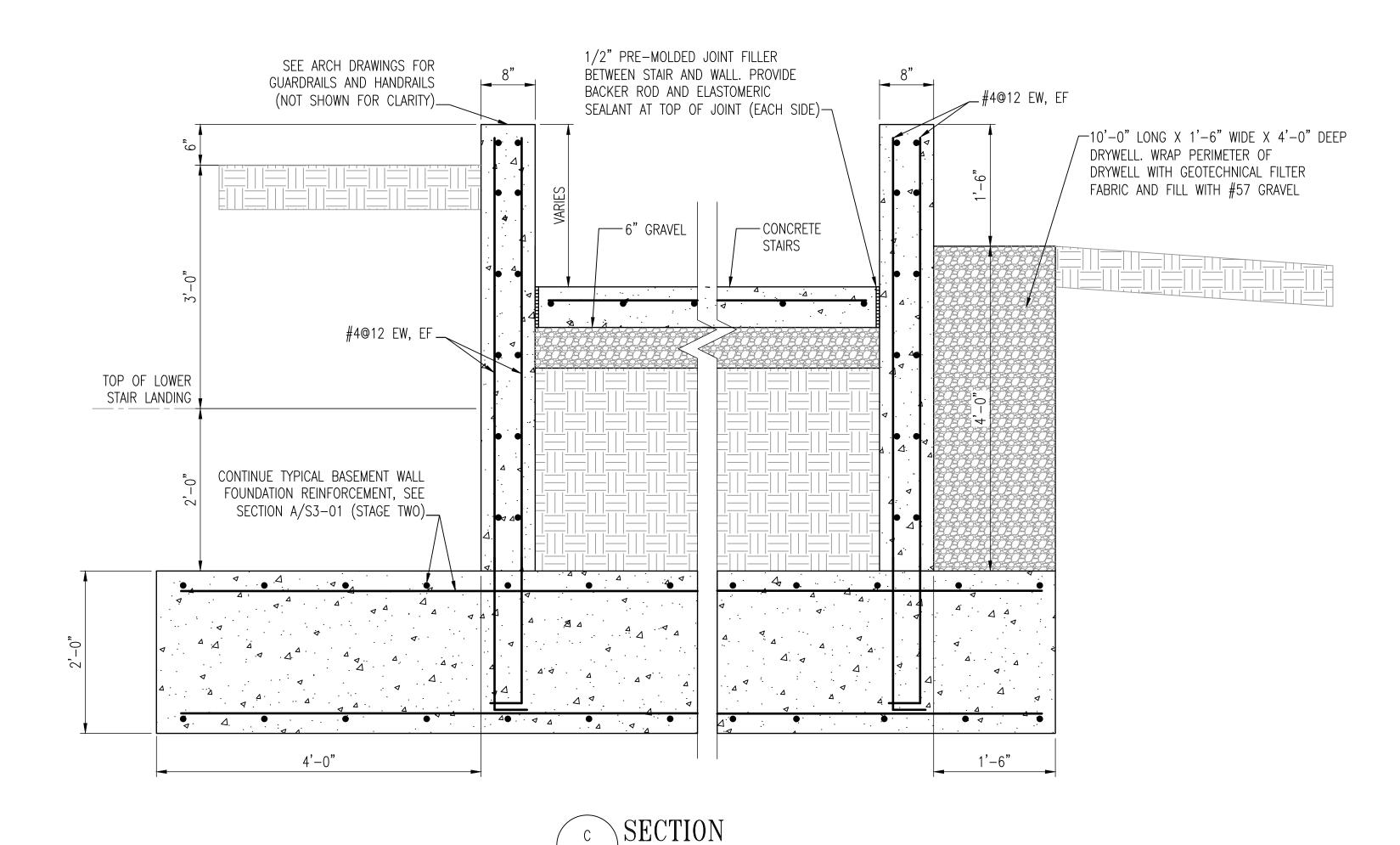
 Project No.: 32207.003
 SHEET 10 of 11



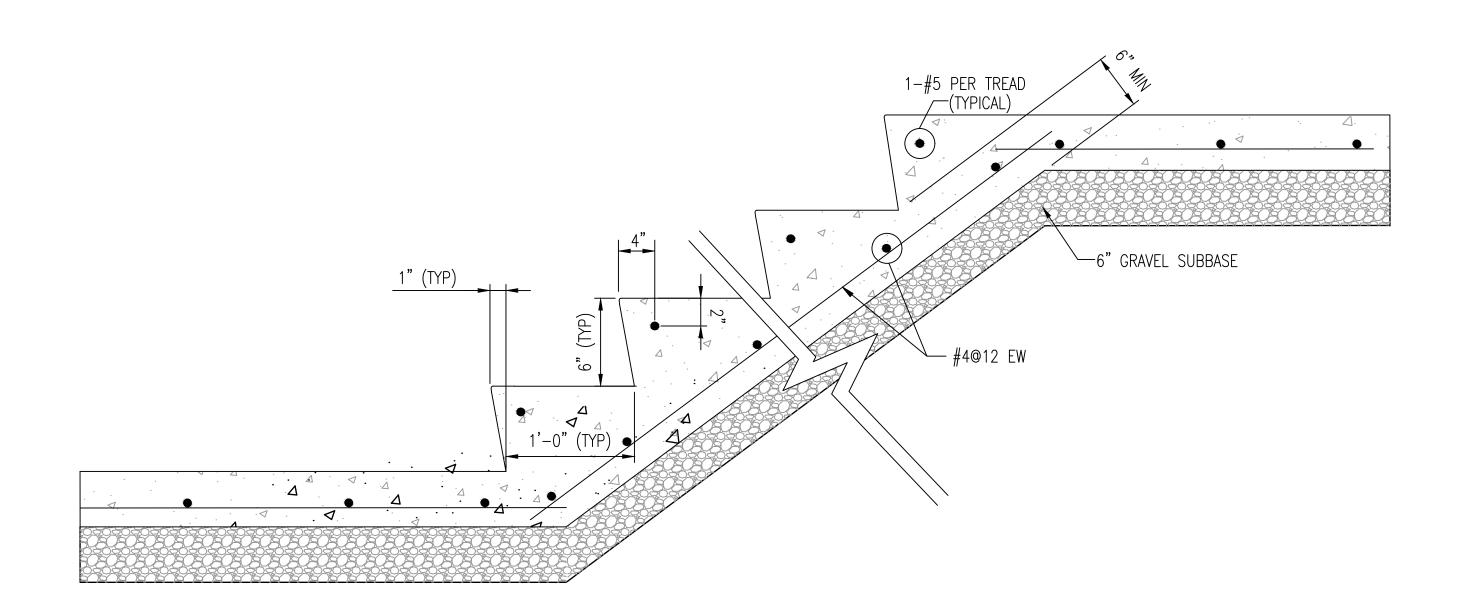
NOTE: INSTALL ALL STEEL COMPONENTS PRIOR TO DEMOLISHING EXISTING STONE RUBBLE FOUNDATION.

DETAIL APPLIES BETWEEN ALL HELICAL PILES (ALONG NORTH AND EAST WALL ELEVATIONS.)

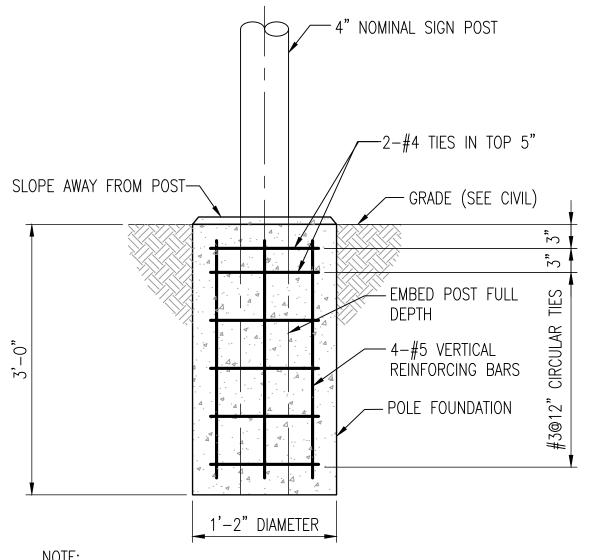
A TYPICAL STEEL SUPPORT OF EXISTING BEAM S3-02 NOT TO SCALE



 $\sqrt{S3-02}$ SCALE: 1" = 1 '-0"

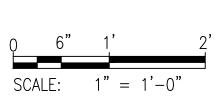


B TYPICAL CONCRETE STAIR DETAIL
S3-02 NOT TO SCALE



NOTE:
FOR ALUMINUM POSTS, PROVIDE HEAVY COAT OF BITUMINOUS PAINT AND LET CURE PRIOR TO EMBEDDING POST IN CONCRETE.

D TYPICAL SIGN FOUNDATION DETAIL
S3-02 NOT TO SCALE



PROFESSIONAL CERTIFICATION.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. EXPIRATION DATE: XX/XX/XXXX



				MONTGOMERY COUN DEPARTMENT OF TRANSP GAITHERSBURG, MARY	PORTATION	
				RECOMMENDED FOR APPROVAL		
				Chief, Transportation Planning and Design Section APPROVED	Date	
				Chief, Division of Transportation Engineering	Date	SCALE : A
NO	REVISION	DATE	BY	Designed by: <u>BMB</u> Drawn by: <u>AH</u>	Checked by:BE	Project No.

S3-02 BUILDING SECTIONS
HOYLE'S MILL
STRUCTURAL STABILIZATION
BOYDS, MARYLAND

 SCALE: AS NOTED
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 Project No.: 32207.003
 SHEET 11 of 11