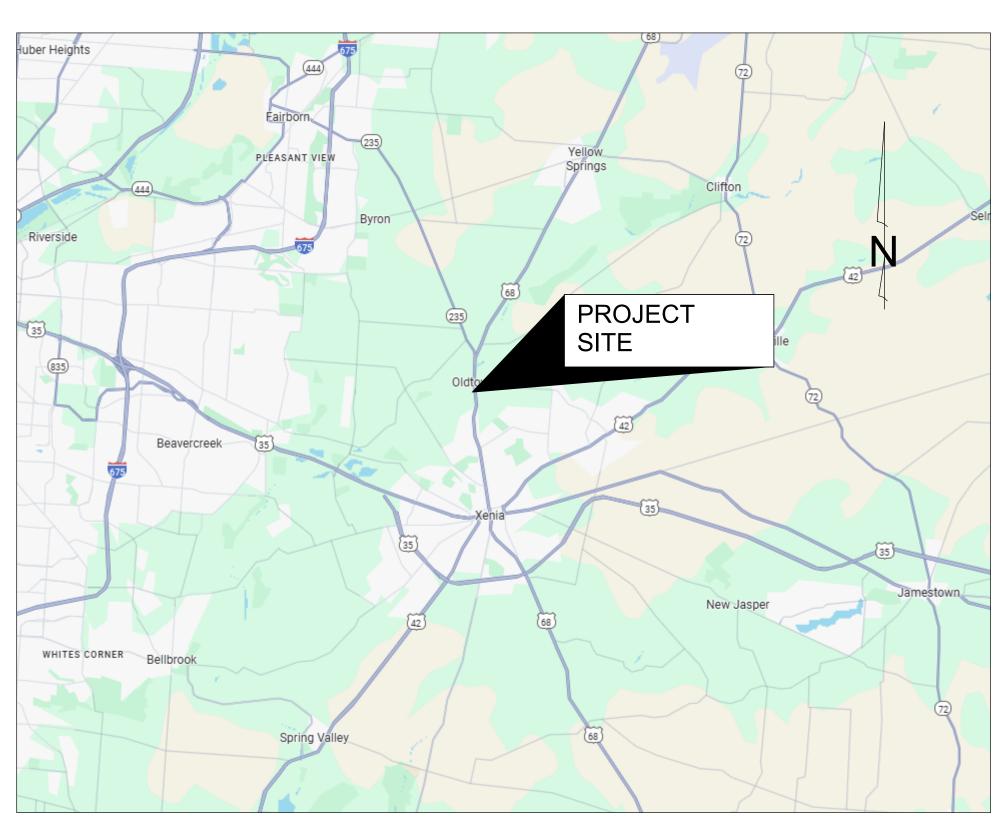
OF NAMES OF STATES

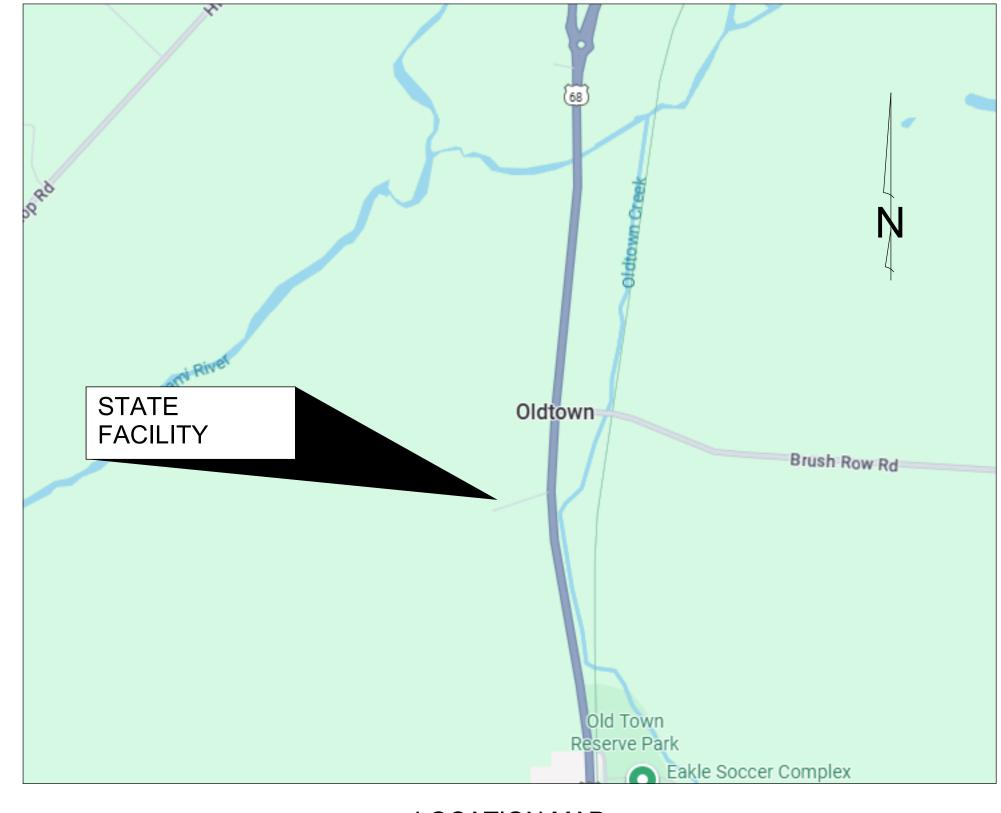
DIVISION OF ENGINEERING

GREAT COUNCIL

OBSERVATION TOWER

DNR-250004
GREENE COUNTY, OHIO





Glen Cobb

Glen Cobb

GLEN COBB, CHIEF, Division of PARKS AND WATERCRAFT

03/09/2025

Slgned by:

DATE

4F4556366F8C4B6...

JEREMY WENNER, P.E., ACTING CHIEF, Division of ENGINEERING

9/5/2025 | 9:30 PMPEDT

REVIEWED BY

MARY LYNN HAPP, PROJECT MANAGER, Division of ENGINEERING

08/25/2025

DATE

FOR OFFICIAL USE ONLY - Infrastructure
This document is an infrastructure record pursuant to Onic Revised Code 149.433(A). Therefore, it is not a

public record and its authorized use, copying or distribution is prohibited.

VICINITY MAP SCALE: 1"=2 MILE

LOCATION MAP SCALE: 1"=1/4 MILE

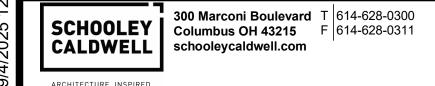




CONTRACTING AUTHORITY:
OHIO FACILTY CONSTRUCTION
COMMISSION (OFCC):
30 WEST SPRING STREET, 4TH FLOOR
COLUMBUS, OH 43215
PHONE: 614-466-1049



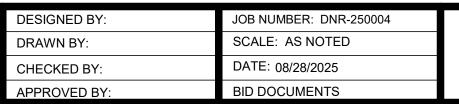
Governor Mike DeWine,
OFCC Executive Director
Joy C. Bledsoe



Expiration Date 12/31/2025

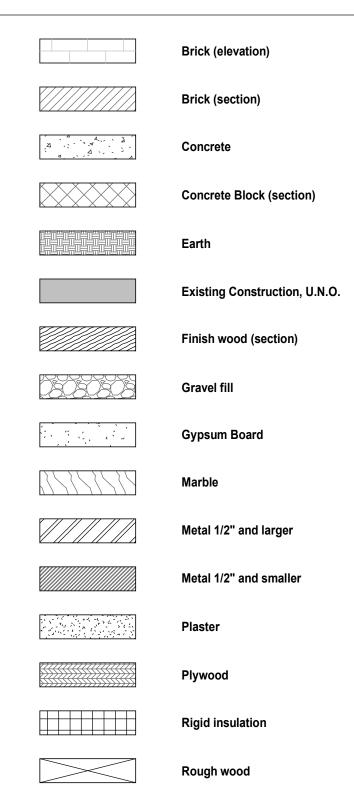






G0

Material Indications



	Project Keynotes
05 50 00	METAL FABRICATIONS
06 10 00	ROUGH CARPENTRY
033000.1	STRUCTURAL CAST-IN-PLACE CONCRETE
051200.1	STRUCTURAL STEEL FRAMING
053100.4	COMPOSITE METAL DECKING
055100.1	METAL STAIRS
055200.1	METAL RAILINGS/GUARDRAILS
055200.2	METAL HANDRAILS
061000.1	BLOCKING
061000.2	DIMENSIONAL WOOD FRAMING
061000.5	PLYWOOD/OSB WALL SHEATHING
061000.6	PLYWOOD ROOF SHEATHING
061700.1	WOOD I-JOIST STRUCTURAL FRAMING
072100.1.2	MINERAL WOOL BATT INSLUATION
072100.2.3	(ISO) POLYISOCYANURATE
072613.2	ABOVE GRADE VAPOR RETARDER
074263.1	FABRICATED WALL PANEL ASSEMBLIES
075400.03	THERMOPLASTIC MEMBRANE ROOFING
078413.1	FIRESTOPPING
081113.1	HOLLOW METAL DOORS
081113.2	HOLLOW METAL DOOR FRAMES
081433.1	STILE AND RAIL WOOD DOORS
081433.2	WOOD DOOR FRAMES
085113.1	ALUMINUM WINDOW
085200.1	WOOD WINDOW
092216.1	NON-STRUCTURAL METAL FRAMING
092216.2	METAL CHANNEL FURRING
092216.3	RESILIENT CHANNEL FURRING
092900.1	GYPSUM BOARD
092900.3	ACOUSTIC BATT INSULATION
099600.1	HIGH PERFORMANCE COATING
102113.1	TOILET COMPARTMENTS
102813.01	PAPER TOWEL DISPENSER
102813.02	WASTE RECEPTACLE
102813.03	FRAMED MIRROR
102813.04	SOAP DISPENSER
102813.05	TOILET TISSUE DISPENSER
102813.06	CHANGING TABLE
	12" GRAB BAR
	18" GRAB BAR
	24" GRAB BAR
	36" GRAB BAR
	42" GRAB BAR
	18" VERTICAL GRAB BAR
	16" X 31" L-SHAPED GRAB BAR
	42" X 54" L-SHAPED GRAB BAR
102813.08	FOLDING SHOWER SEAT
102813.09	SHOWER CURTAIN ROD
102813.10	SHOWER CURTAIN

102813.11 SHOWER DOOR

102813.18 GARMENT HOOK

102813.14 SANITARY NAPKIN VENDOR

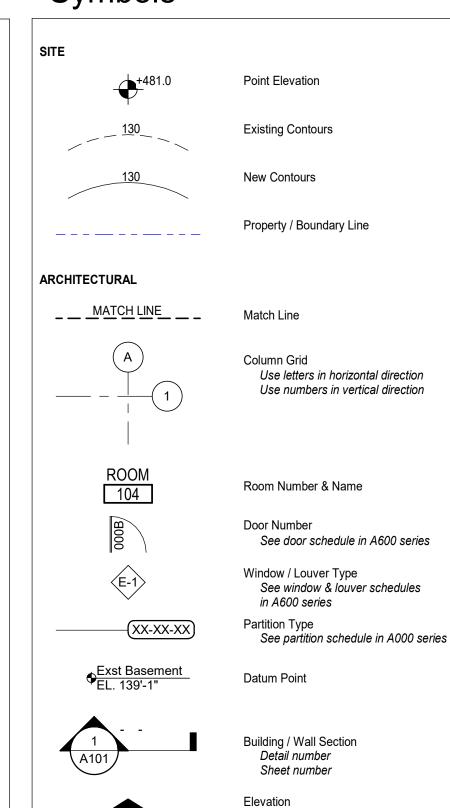
102813.15 SANITARY NAPKIN DISPOSAL

102813.16 TOILET SEAT COVER VENDOR 102813.17 MOP AND BROOM HOLDER

102813.12 TOWEL PIN

102813.13 | TOWEL ROD

Symbols



(1 (A101 Detail number Sheet number 1/A101 Photograph Call-out Coded Note Alternate Tag Finish Tag Center Line Revision Mark North Arrow

Detail number Sheet number

General Notes

Partition Type Schedule see drawing A020. Exterior and Interior Window and Louver Schedule see drawing A600. Door and Frame Schedule see drawing A610.

All dimensions shall be verified at the job by the General Contractor and each Sub-Contractor and the Architect must be notified of any discrepancies before proceeding with the work.

All dimensions are to the face of finish, face of concrete, face of masonry, to centerlines of columns and other grid points, and to centerlines of doors and other scheduled openings unless otherwise noted.

I. All door locations not dimensioned are located by details * /A800 and * /A800 respectively for framed and

Access door locations are noted on the drawings. Actual size, location, and quantity may vary upon field

conditions. Verify and coordinate locations and quantity required with the appropriate contractor(s).

. Offset studs and/or shim as required to align finish material.

All housekeeping pads and curbs shall be furnished and installed by the general (lead) contractor. Verify with appropriate contractor(s) for required size and location.

8. All floor drain (F.D.) elevations are 1/2" lower than finished floor elevation unless otherwise noted.

9. All vertical elevations and working points are given with reference to level one finish floor elevation 100'-0"

10. The drawings are the graphic portion of the contract documents showing the design, location, and dimensions of the work. Do not scale the drawings to determine a dimension in question, consult the architect for clarification.

11. Contractor(s) are to investigate and verify location, condition, and capacity of all existing utilities within the limits of work, prior to beginning construction. See site utility, mechanical and electrical drawings for further

12. The structure is designed to be self-supporting and stable after the building is fully completed. It is solely the contractor(s) responsibility to determine erection procedures and sequences and to ensure the safety of the building and its component parts during erection, including the addition of shoring, sheathing, temporary enclosure, etc. It is the contractor(s) sole responsibility to follow all applicable safety and construction regulations, ordinances and codes during the course of construction.

3. Fill any masonry voids with mortar or concrete where anchors occur.

4. Provide lintels over all openings including those req'd for ductwork, pipes, louvers, grilles, dampers, etc.

Coordinate locations and/or elevations of floor drain, registers, access panels, grilles, louvers, convectors, cabinet unit heaters, panels, etc., with mechanical and electrical contractors. Size and location of all floor

Bolting of wood to structural members or masonry shall be in general with a minimum of 1/2" bolts @ 4'-0" O.C. except where shown otherwise. Situations requiring special bolting shall be with the size and spacing of bolts to

In any room in which plumbing, heating, or electrical alterations are made: the General Contractor shall make proper repairs to other building items affected; i.e. floors, walls, ceilings, base, chair rail, trim, etc. In general, new materials and materials for repair conditions shall match similar items in quality, detail, profile and finish as those

8. All shaded walls appearing on reflected ceiling plans are to extend to underside of structure above.

10. All concrete curbs and equipment pads shall be furnished by the General Contractor and sized and located by the contractor installing the equipment.

REMODELING NOTES

1. The coursing of all masonry to match that in existing building.

Contractor to verify all dimensions and profiles of stone at the site.

openings to be verified with trade affected before proceeding with work.

9. All walls of all rooms with exposed structure ceilings to extend and seal to the structure.

T-S8

P001 General Information - Plumbing P101 First Floor Plan - Plumbing P201 Floor Plan - Plumbing P501

Drawing Index

Cover Sheet

Utility Plan

Site Details

Demolition Plan

Material Plan

Planting Plan

03.5 - Architectural Demolition

Index and Symbols

Boundary & Topographic Survey

Grading and Erosion Control Plan

Code Analysis - Maintenance

Code Analysis - Restroom

Code Analysis - Tower

Code Elevations - Tower

Erosion Control Notes

Erosion Control Details

Plant Schedule & Details

Floor Plans and Interior Elevation

Exterior Elevations and Building Sections

Exterior Elevations and Building Sections

Exterior Elevations and Building Sections

Enlarged Tower Plans and Tube Schedules

Wall Sections and Roof Plan

Floor Plan Demolition **Elevation Demolition**

Exterior Details

Interior Details

Roof Plan and Sections

Interior Elevations

Tower Floor Plan

Exterior Details

General Notes

Special Inspections

Roof Framing Plan

Restroom Building Sections

Foundation Plan & Details

Framing Elevations & Details

Structural Cover Sheet

Special Inspections

Foundation Plan

General Notes

Framing Plans

Tower Sections

Tower Stair Details

Structural Cover Sheet

Infill Panel Schedule

Toilet Layouts and Elevations

Tower Wall Sections and Details

Tower Stair and Railing Details

Floor Plan

01 - General

G0

G1

G100

R-G2

T-G2

T-G3

02 - Civil C100

C200

C201

C202

L100

L200

L300

L400

L401

M-AD2

M-A4

M-A5

R-A1

R-A2

R-A3

R-A5

T-A1

T-A2

T-A5

T-A6

T-A7

R-S3

R-S4

R-S5

R-S6

T-S1

T-S2

T-S3

T-S4

T-S5

06 - Structural

04 - Architectural

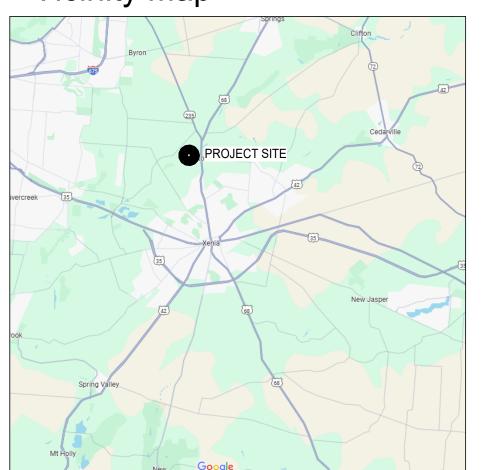
03 - Landscape

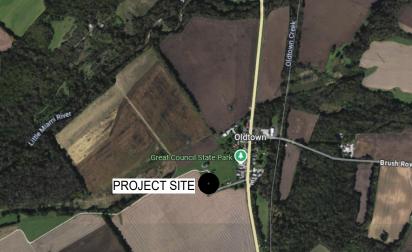
Details - Plumbing P601 Schedules and Details - Plumbing

General Information - Mechanical M101 First Floor Plan - Mechanical Floor Plan - Mechanical Details - Mechanical Schedules - Mechanical

10 - Electrical E001 General Information - Electrical Site Plan - Electrical First Floor Plan - Electrical Floor Plan - Electrical Floor Plans - Electrical E501 Details - Electrical E502 Details - Electrical E601 Schedules - Electrical Diagrams - Electrical

Vicinity Map









Abbreviations

Angle

Pound(s)

Additional

Aluminum

Architectural

Alternate

Asphalt

Bottom of

Board

Building

Cabinet

Ceiling

Column

Concrete

Continuous

Coordinate

Cubic Foot

Cubic Yard

Demolish

Diameter

Division

Drawing

Each

Equal

Existing

Exterior

Expansion or Exposed

Elevation

Electrical

Dimension

Down Spout

Drinking Fountain

Construction

Ceramic Tile

Clear

Control Joint

Center Line

Center to Center

Concrete Masonry Unit

Bottom

Adjacent

Acoustic Ceiling Tile

Above Finished Floor

Architect And/ Or Engineer

ACT ADD'L

ADJ A/E

AFF

ALUM

ARCH

ASPH

BD

BOT

C/C

CAB CJ _€

CL / CLG CLR

CMU COL

CONC

CONT

CTR

CU YD

DET

DIA

DIM

DWG

EQ

EXP

EXT

CONSTR

COORD

ALT

Fire Alarm

FEC

F.F.

FLR FTG

GB

GYP

HORIZ

HSS

HVAC

INSUL

LAM

LAV

LG

LH

MAX

MECH

MFR

MIN MO MTL

NIC

NA / N/A

NO / #

NOM

NRC

NTS

O.C.

LB / Lbs.

HT

Floor Drain

Fire Extinguisher.

Finished Floor

Floor

Footing

Grab Bar

Gypsum

Hollow Metal

Horizontal

Tube Steel

Interior

Laminate

Lavatory

Pound(s)

Left Hand

Maximum

Minimum

Number

Nominal

Not to Scale

On Center

Opposite Hand

Mechanical

Manufacturer / Supplier

Noise Reduction Coefficient

Masonry Opening

Not Applicable

Not in Contract

Janitor's Closet

Fire Extinguisher Cabinet

Heating/Ventilating/Air Conditioning

Finish Floor Elevation

300 Marconi Boulevard T 614-628-0300 **Columbus OH 43215** F 614-628-0311 schooleycaldwell.com



ENGINEERING Ohio Department of Natural Resources

Plastic Laminate

Pounds per Square Foot

Pounds per Square Inch

Reflected Ceiling Plan

Reinforced / Reinforcing

Poly Vinyl Chloride

Plywood

Quarry Tile

Roof Drain

Required

Revision

Schedule

Section

Sheet

Similar

Sauare

Standard

Storage

Structural

Thickness

Top of Concrete

Top of Masonry

Unless Noted Otherwise

Vinyl Composition Tile

Top of Steel

Through

Typical

Vertical

With

Wood

Vinyl Base

Verify in Field

Water Closet

Wide Flange

Suspended

Storm Drain

Square Feet

Specifications

Rest Room

Rough Opening

Radius

PT / PTD Paint / Painted

PLYWD

PSF

PSI

PVC

RD

RR

REV

RM

RO

SHT SIM

SPEC

SQ STD

STL STOR

STR

SUSP

THK

THRU

TOM TOS TYP

VERT

VCT

WC

WD

WF

STRUCT

SCHED

REINF

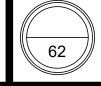
REQD

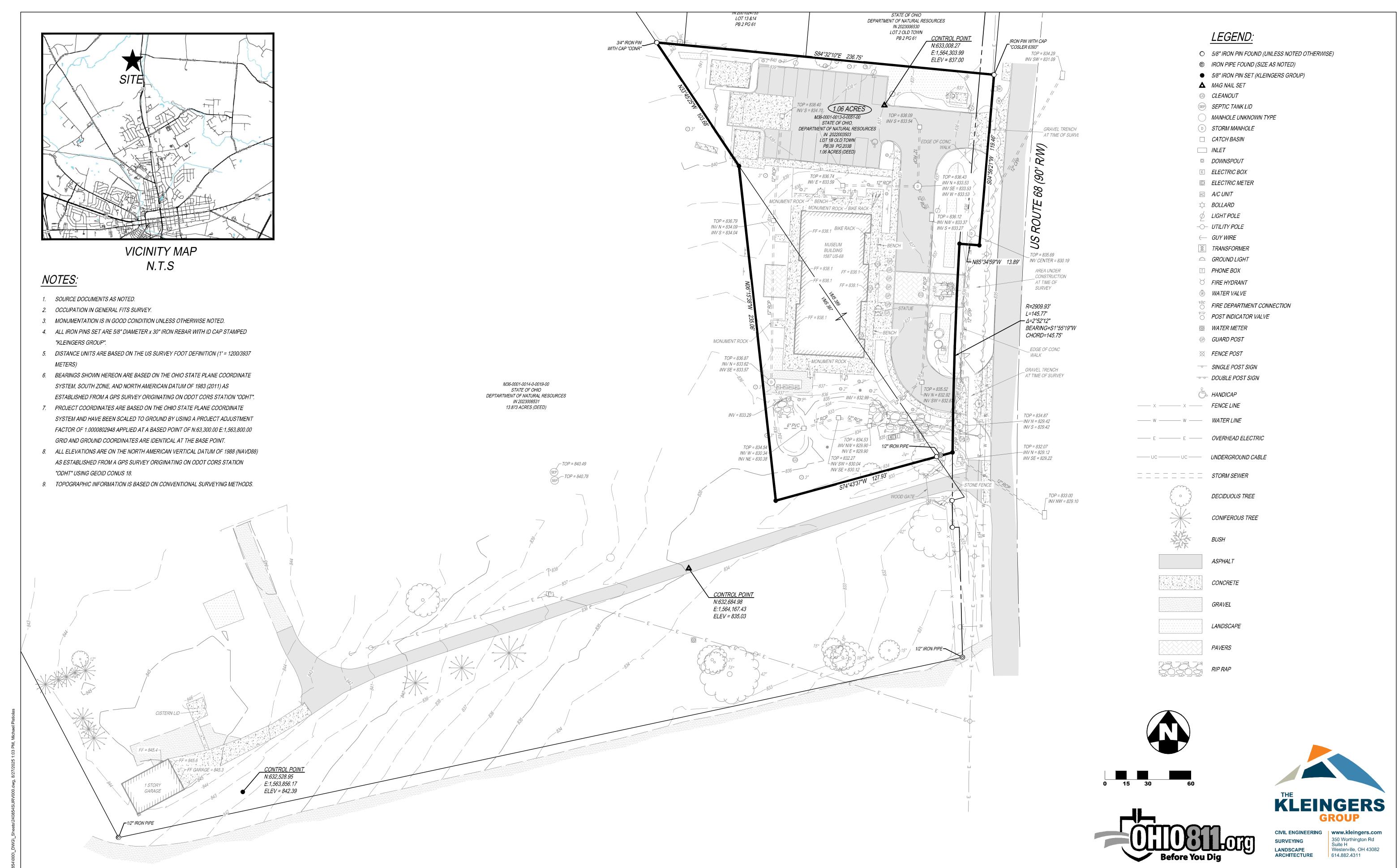
GREAT COUNCIL STATE PARK **OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO**

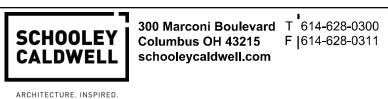
DESIGNED BY:	JOB NUMBER: DNR-250004
DRAWN BY:	SCALE: AS NOTED
CHECKED BY:	DATE: 09/04/2025
APPROVED BY:	BID DOCUMENTS

Area Map

Index and Symbols









GREAT COUNCIL STATE PARK
OBSERVATION TOWER, RESTROOM, AND MAINTENANCE
GREENE COUNTY, OHIO

DESIGNED BY: MGP / CM

DRAWN BY: MGP / CM

SCALE: AS NOTED

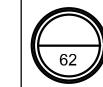
CHECKED BY: MS

APPROVED BY:

BID DOCUMENTS

BOUNDARY & TOPOGRAPHIC SURVEY

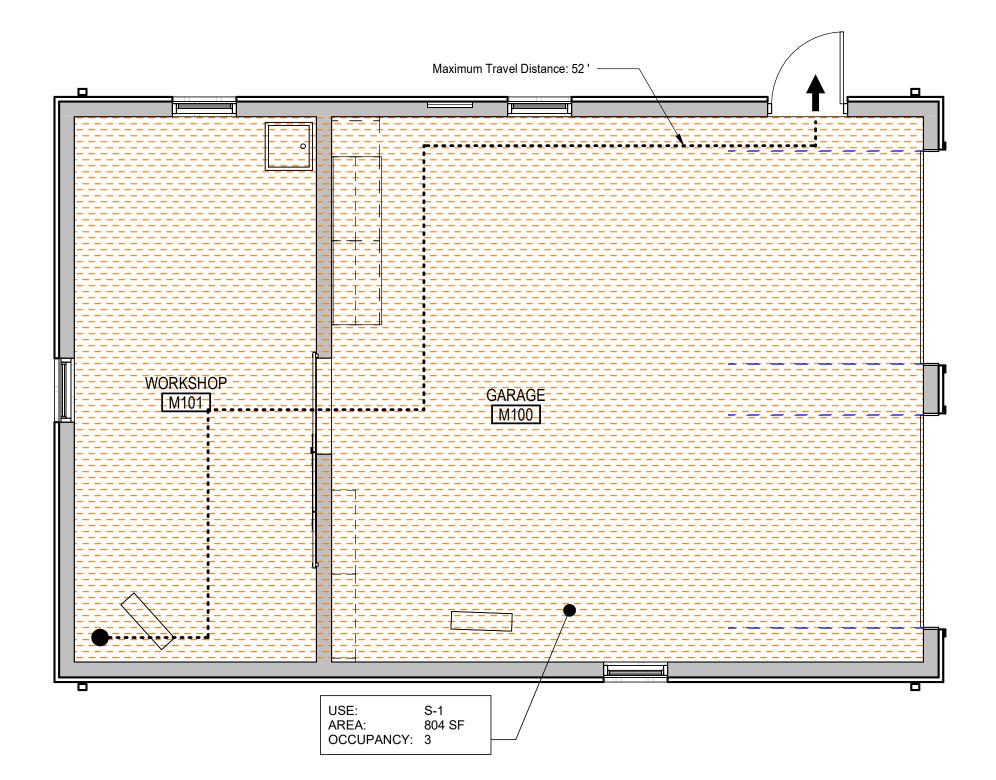


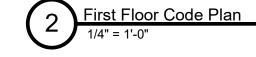


CODE DATA - SYMBOL LEGEND HOUR FIRE BARRIER HOUR FIRE WALL HFS HOUR FIRE SEPARATION USE AND OCCUPANCY: A-3 and A-5, ASSEMBLY 15 NET SQ FT PER OCCUPANT USE AND OCCUPANCY: B, BUSINESS 100 GROSS SQ FT PER OCCUPANT USE AND OCCUPANCY: R-2, RESIDENTIAL 200 GROSS SQ FT PER OCCUPANT USE AND OCCUPANCY: S-1, MODERATE-HAZARD STORAGE 300 GROSS SQ FT PER OCCUPANT USE AND OCCUPANCY: S-2, LOW-HAZARD STORAGE 300 GROSS SQ FT PER OCCUPANT **EGRESS** ONE (1) HOUR FIRE BARRIER (HFB) COMPLY WITH UL FIRE ASSEMBLIÉS TWO (2) HOUR FIRE BARRIER (HFB) COMPLY WITH UL FIRE ASSEMBLIES TWO (2) HOUR FIRE SEPARATION (HFS) COMPLY WITH UL FIRE ASSEMBLIÈS THREE (3) HOUR FIRE WALL (HFW) COMPLY WITH UL FIRE ASSEMBLIÉS PATH OF EGRESS ••••• COMMON PATH OF TRAVEL **EGRESS EXIT** ADA ACCESS OR ADA DWELLING UNIT OCCUPANT LOAD SIGNAGE NEW FIRE EXTINGUISHER NEW FIRE EXTINGUISHER CABINET, RECESSED IN WALL

TOLIET

```
DESIGN LOADS - 2024 OHIO BUILDING CODE
ROOF SNOW LOAD:
                                                                            - 20 PSF
    GROUND SNOW LOAD (Pg):
    SNOW EXPOSURE FACTOR (Ce):
                                                                            - 1.0
    IMPORTANCE FACTOR (Is):
                                                                            - 1.0
    THERMAL FACTOR (Ct):
                                                                            - 1.0
    FLAT ROOF SNOW LOAD (Pf)
                                                                            - 14 PSF
    UNIFORM ROOF DESIGN SNOW LOAD
                                                                            - 20 PSF
WIND LOAD:
     BASIC WIND SPEED
                                                                            - 107 MPH
    ALLOWABLE WIND SPEED
                                                                            - 83 MPH
    RISK CATEGORY
                                                                            - 11
    EXPOSURE CATEGORY
                                                                            - EXPOSURE C
    INTERNAL PRESSURE COEFFECIENT (G Cpi)
                                                                            - ±0.18
SEISMIC LOAD:
    RISK CATEGORY
    IMPORTANCE FACTOR (Ie)
                                                                            - 1.0
    MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss):
                                                                            - 0.138
    MAPPED SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND PERIOD (S1)
                                                                            - 0.069
                                                                            - D
     SPECTRAL RESPONSE PARAMETER AT SHORT PERIOD (SDs)
                                                                            - 0.148
     SPECTRAL RESPONSE PARAMETER AT ONE-SECOND PERIOD (SD1)
                                                                            - 0.11
     SEISMIC DESIGN CATEGORY
                                                                            - B
    DESIGN BASE SHEAR ASD
                                                                            - 2K
    SEISMIC RESPONSE COEFFICIENT (Cs):
                                                                            - 0.074
```







PROJECT SUMMARY:

THE PROJECT IS A RENOVATION OF AN EXISTING RESIDENTIAL GARAGE.

APPLICABLE CODES:

ZONING: Xenia Township Zoning District

Parcel ID's:

A - AGRICULTURAL Base Zoning:

B-2 - NEIGHBORHOOD BUSINESS DISTRICT

M36000100140001900

FLOOD ZONE: Flood Zone X – F.E.M.A. Map Number 39057C0130E – (3/8/2022)

FIRE CODE: OAC 1301:7 (1-7) 2024 – Ohio Fire Code (2021 IFC with Ohio amendments)

BUILDING CODE: OAC 4101:1 (1-35) 2024 – Ohio Building Code (2021 IBC with Ohio amendments)

OAC 4101:1 (11) 2024 - OBC Chapter 11 and ICC A117.1 - 2017 new construction, 2009 for ACCESSIBILITY:

alterations / change of use 2021 – IECC and ASHRAE 90.1-2019 (with Ohio amendments) OAC 4101:1 (13) **ENERGY CODE:**

OAC 4101:1 (27) 2024 – OBC Chapter 27 and National Electrical Code NFPA 70-23 **ELECTRICAL CODE:**

MECHANICAL CODE: OAC 4101:2 (1-15) 2024 – Ohio Mechanical Code (2021 IMC with Ohio amendments)

PLUMBING CODE: OAC 4101:3 (1-15) 2024 – Ohio Plumbing Code (2021 IPC with Ohio amendments)

CLIMATE ZONE (IECC C301.1): 4A Greene County

PROVISIONS FOR COMPLIANCE METHODS - OHIO EXISTING BUILDING CODE 2024:

OEBC 301.3: ALTERATION, ADDITION OR CHANGE OF OCCUPANCY OF ALL EXISTING BUILDINGS SHALL COMPLY WITH ONE OF THE METHODS LISTED:

OEBC 301.3.1: THIS PROJECT WILL USE **THE PRESCRIPTIVE COMPLIANCE METHOD**.

USE AND OCCUPANCY CLASSIFICATION:

OBC 311.2: S-1, MODERATE-HAZARD STORAGE (GARAGE AND WORKSHOP). NO CHANGE IN USE.

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY:

GENERAL BUILDING HEIGHTS AND AREAS: OBC TABLE 504.3: ALLOWABLE HEIGHT: TYPE V-B CONSTRUCTION

> MAX 1 STORY AND 40' HEIGHT 1 STORY ACTUAL AND 19'-6" HEIGHT ACTUAL

OBC TABLE 506.2: BUILDING AREA: TYPE V-B CONSTRUCTION 6,000 SF FLOOR ALLOWABLE 804 SF FLOOR ACTUAL

TYPE OF CONSTRUCTION: OBC TABLE 601:

TYPE V-B CONSTRUCTION STRUCTURAL FRAME:

BEARING WALLS, EXTERIOR: 0-HOURS BEARING WALLS, INTERIOR: 0-HOURS NON-BEARING WALLS AND PARTITIONS 0-HOUR FLOOR CONSTRUCTION: 0-HOURS

FIRE RESISTANCE RATED CONSTRUCTION: NOT APPLICABLE

ROOF CONSTRUCTION:

FIRE PROTECTION SYSTEMS:

NOT APPLICABLE

DESIGN OCCUPANT LOAD: 3 OCCUPANTS

OBC TABLE 1006.2.1: COMMON PATH OF EGRESS TRAVEL: S-2 = 75 FT MAX ALLOWABLE COMMON PATH OF EGRESS TRAVEL: A-3 = 75 FT MAX ALLOWABLE

0-HOURS

OBC TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE: 200 FT MAX ALLOWABLE

ACCESSIBILITY:

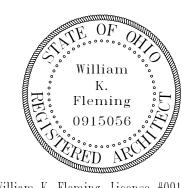
OBC TABLE 1106.1: 0 PARKING SPACES PROVIDED 0 REQUIRED ACCESSIBLE PARKING SPACES

PLUMBING FOR BASEMENT & FIRST FLOORS: OBC TABLE 2902.1 / OPC 403: REQUIRED MINIMUM PLUMBING FACILITIES

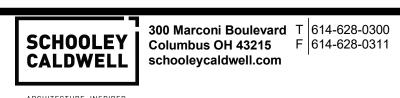
NO PLUMBING FACILITIES ARE PROVIDED WITH THIS STRUCTURE SINCE IT IS PART OF A LARGER

CAMPUS THAT CONTAINS RESTROOMS

Code Analysis



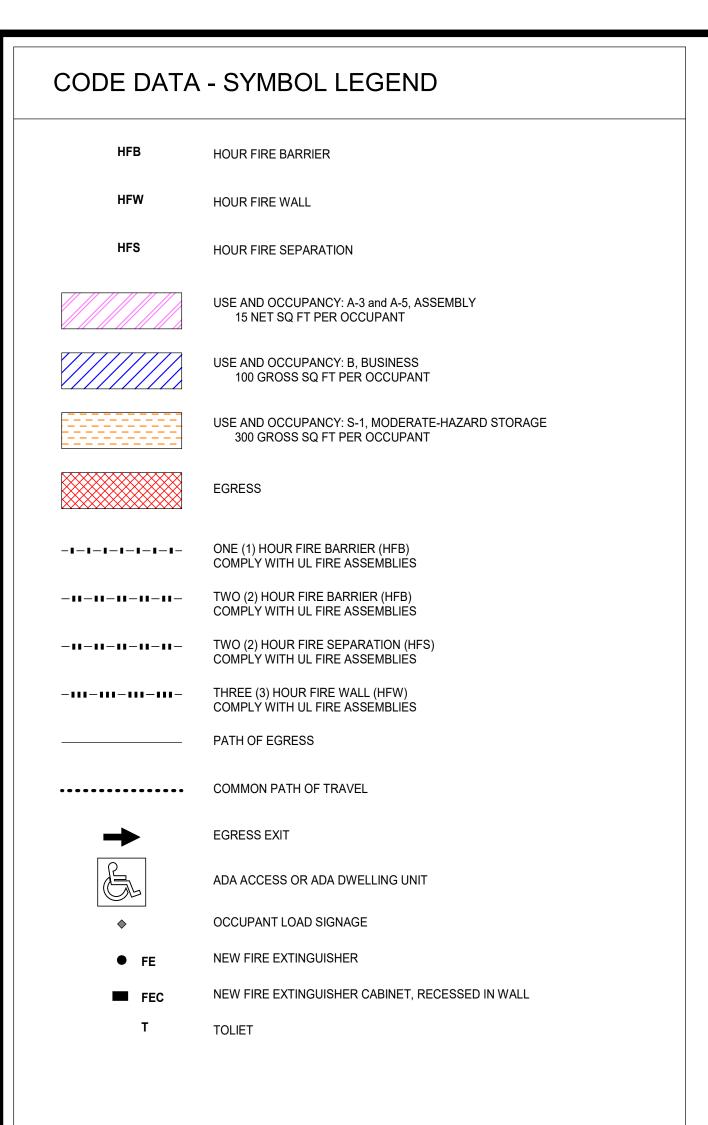
William K. Fleming, License #0915056 Expiration Date 12/31/2025

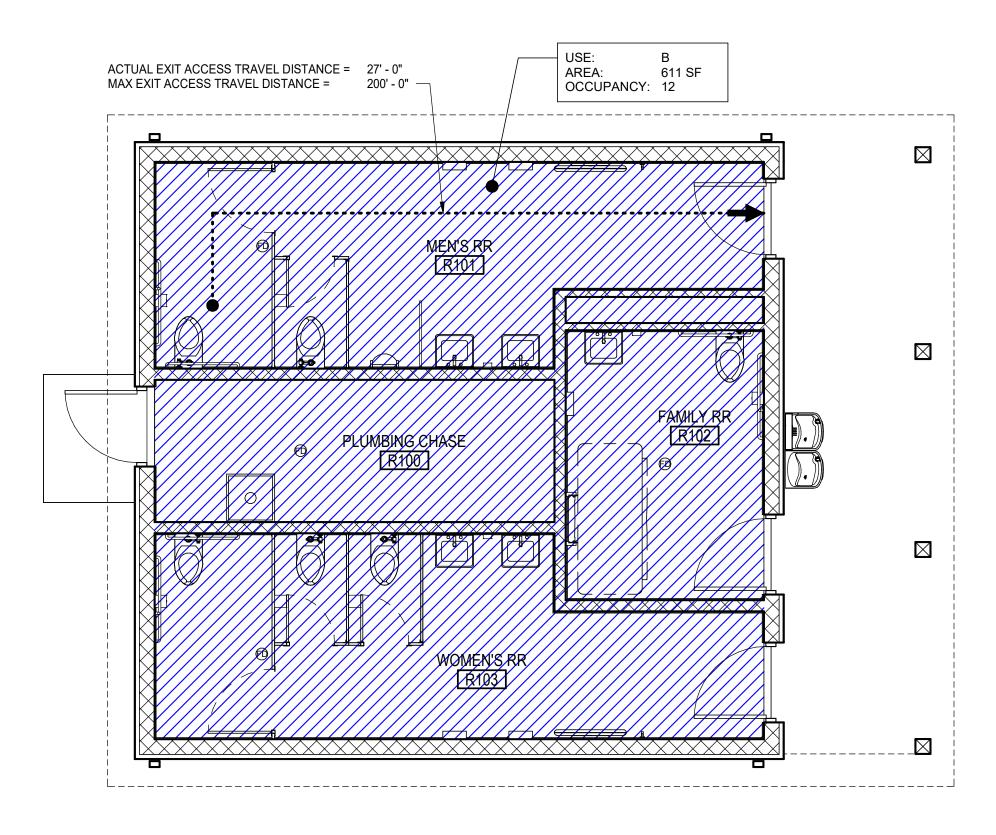








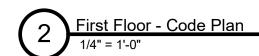




GREAT COUNCIL STATE PARK

OBSERVATION TOWER, RESTROOM, AND MAINTENANCE

GREENE COUNTY, OHIO



CODE DATA - 2024 OHIO BUILDING CODE

PROJECT SUMMARY:

THIS PROJECT IS NEW CONSTRUCTION OF A NEW PUBLIC RESTROOM FACILITY FOR GREAT COUNCIL STATE PARK. THIS STRUCTURE IS PART OF A LARGER PROJECT INCLUDING A NEW OBSERVATION TOWER AND THE RENOVATION OF AN EXISTING GARAGE.

APPLICABLE CODES:

ZONING:

Xenia Township Zoning District

Base Zoning: A - AGRICULTURAL

B-2 - NEIGHBORHOOD BUSINESS DISTRICT

Parcel ID's: M36000100140001900

FLOOD ZONE: Flood Zone X – F.E.M.A. Map Number 39057C0130E – (3/8/2022)

FIRE CODE: OAC 1301:7 (1-7) 2024 – Ohio Fire Code (2021 IFC with Ohio amendments) **BUILDING CODE:** OAC 4101:1 (1-35) 2024 – Ohio Building Code (2021 IBC with Ohio amendments)

OAC 4101:1 (11) 2024 - OBC Chapter 11 and ICC A117.1 2017 new construction/2009 for ACCESSIBILITY:

2024 – OBC Chapter 27 and National Electrical Code NFPA 70-23

2024 – Ohio Plumbing Code (2021 IPC with Ohio amendments)

alterations/change of use 2021 – IECC and ASHRAE 90.1-2019 (with Ohio amendments) OAC 4101:1 (13) **ENERGY CODE:**

MECHANICAL CODE: OAC 4101:2 (1-15) 2024 – Ohio Mechanical Code (2021 IMC with Ohio amendments)

CLIMATE ZONE (IECC C301.1): 4A Greene County

PLUMBING CODE:

USE AND OCCUPANCY CLASSIFICATION:

ELECTRICAL CODE: OAC 4101:1 (27)

OBC 304.1: B, BUSINESS (RESTROOMS)

GENERAL BUILDING HEIGHTS AND AREAS: OBC TABLE 504.3: ALLOWABLE HEIGHT: TYPE V-B CONSTRUCTION

MAX 1 STORY AND 40' HEIGHT 1 STORY ACTUAL AND 19'-6" HEIGHT ACTUAL

OAC 4101:3 (1-15)

OBC TABLE 506.2: BUILDING AREA: TYPE V-B CONSTRUCTION 6,000 SF FLOOR ALLOWABLE

611 SF FLOOR ACTUAL

TYPE OF CONSTRUCTION: OBC TABLE 601:

> TYPE V-B CONSTRUCTION STRUCTURAL FRAME: 0-HOURS BEARING WALLS, EXTERIOR: 0-HOURS BEARING WALLS, INTERIOR:

0-HOURS NON-BEARING WALLS AND PARTITIONS: 0-HOURS FLOOR CONSTRUCTION: 0-HOURS ROOF CONSTRUCTION: 0-HOURS

FIRE RESISTANCE RATED CONSTRUCTION: NOT APPLICABLE

MIXED USE AND OCCUPANCY:

NOT APPLICABLE

FIRE PROTECTION SYSTEMS NOT APPLICABLE

MEANS OF EGRESS:

OBC 1004.1: DESIGN OCCUPANT LOAD: 12 OCCUPANTS OBC TABLE 1006.2.1: COMMON PATH OF EGRESS TRAVEL: B = 75 FT MAX ALLOWABLE OBC TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE: 200 FT MAX ALLOWABLE

ACCESSIBILITY:

OBC TABLE 1106.1: 0 PARKING SPACES PROVIDED 0 REQUIRED ACCESSIBLE PARKING SPACES

PLUMBING FOR BASEMENT & FIRST FLOORS: OBC TABLE 2902.1 / OPC 403: REQUIRED MINIMUM PLUMBING FACILITIES

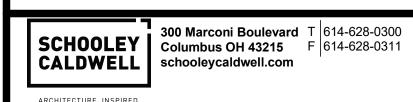
REQUIRED: 2 PROVIDED: 2

LAVATORIES REQUIRED: PROVIDED: 2

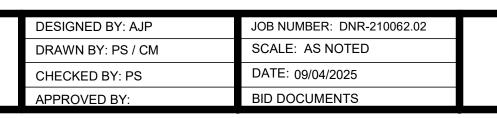
DRINKING FOUNTAINS REQUIRED: PROVIDED:

OTHER REQUIRED: 1 SERVICE SINK OTHER PROVIDED: 1 SERVICE SINK









FLOOR AREA AND OCCUPANCY

	AREA, USE, AND OCCUPANCY						
LEVEL	GROSS AREA	USE GROUP	CALCULATED OCCUPANCY				
GROUND	512	A-3	17				
PLATFORM	634	A-3	22				
TOTAL	1,146	-	39				

CODE DATA - SYMBOL LEGEND

HOUR FIRE BARRIER

HOUR FIRE WALL

HOUR FIRE SEPARATION

USE AND OCCUPANCY: A-3 and A-5, ASSEMBLY 15 NET SQ FT PER OCCUPANT

> USE AND OCCUPANCY: B, BUSINESS 100 GROSS SQ FT PER OCCUPANT

EGRESS

ONE (1) HOUR FIRE BARRIER (HFB) COMPLY WITH UL FIRE ASSEMBLIES

TWO (2) HOUR FIRE BARRIER (HFB) COMPLY WITH UL FIRE ASSEMBLIES

TWO (2) HOUR FIRE SEPARATION (HFS) COMPLY WITH UL FIRE ASSEMBLIÈS

THREE (3) HOUR FIRE WALL (HFW) COMPLY WITH UL FIRE ASSEMBLIES

PATH OF EGRESS

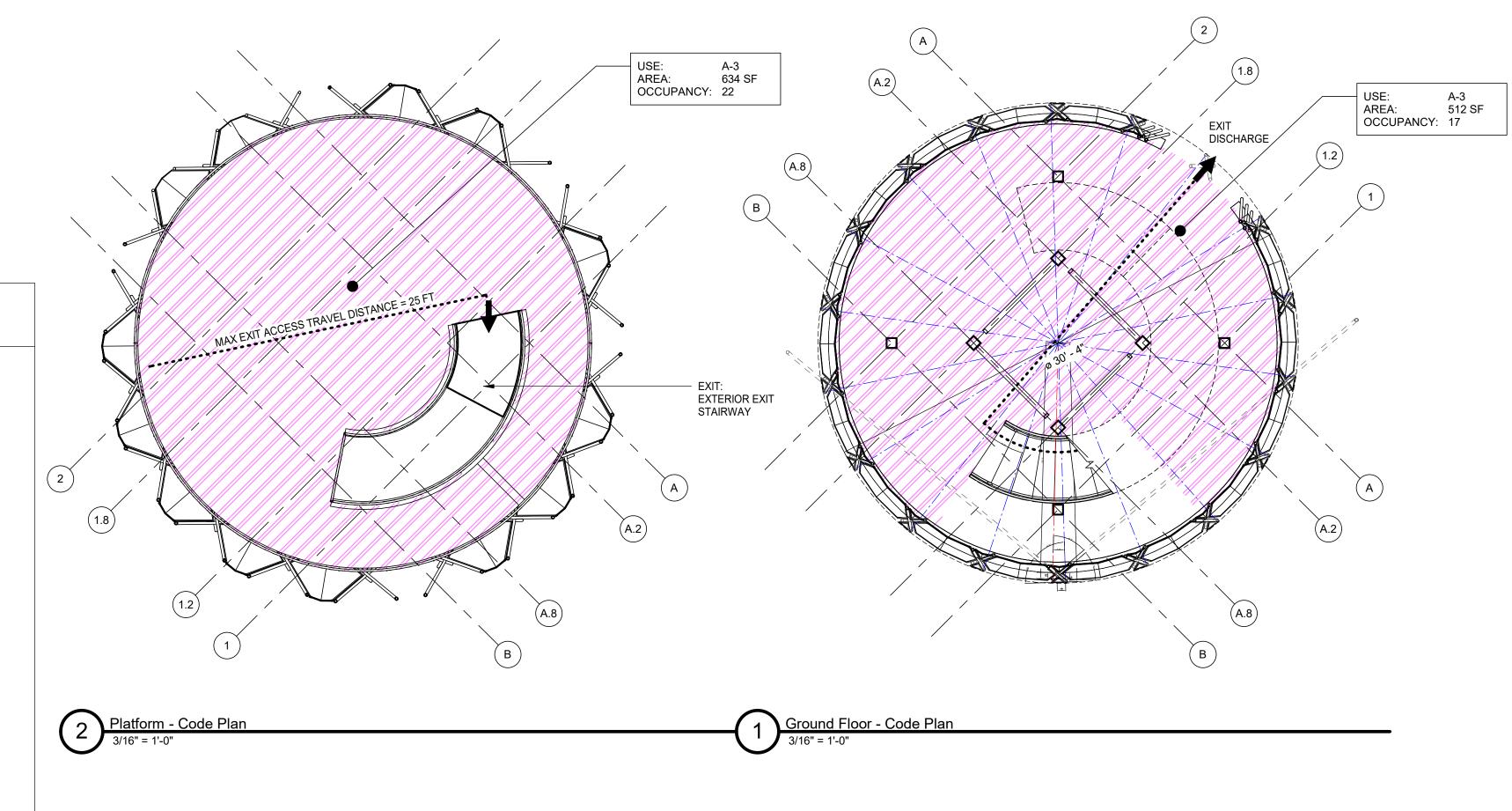
••••• COMMON PATH OF TRAVEL

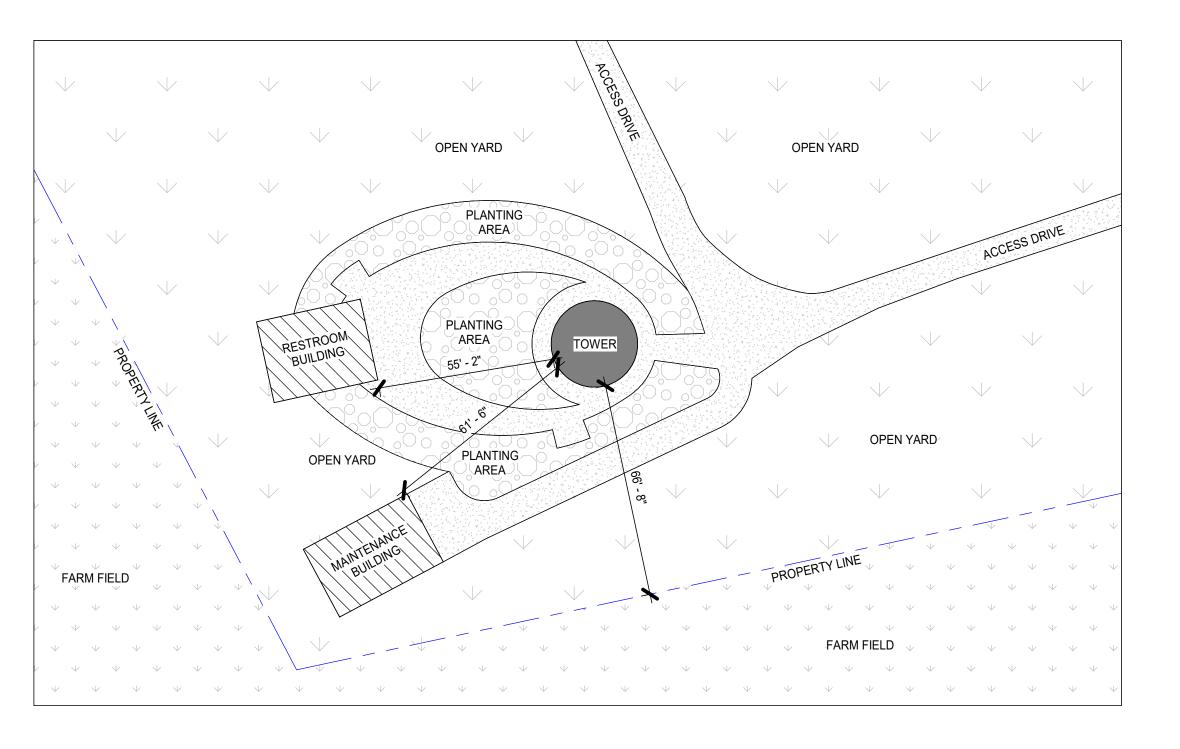
ADA ACCESS OR ADA DWELLING UNIT

OCCUPANT LOAD SIGNAGE NEW FIRE EXTINGUISHER

NEW FIRE EXTINGUISHER CABINET, RECESSED IN WALL

TOLIET





CODE DATA - 2024 OHIO BUILDING CODE

PROJECT SUMMARY:

THE PROJECT IS A NEW CONSTRUCTION OF AN OPEN AIR OBSERVATION

APPLICABLE CODES:

Xenia Township Zoning District

A - AGRICULTURAL

B-2 - NEIGHBORHOOD BUSINESS DISTRICT

M36000100140001900 Parcel ID's:

FLOOD ZONE: Flood Zone X – F.E.M.A. Map Number 39057C0130E – (3/8/2022)

FIRE CODE: OAC 1301:7 (1-7)

OAC 4101:1 (1-35) **BUILDING CODE:**

ACCESSIBILITY: OAC 4101:1 (11) 2024 – Ohio Fire Code (2021 IFC with Ohio amendments)

OAC 4101:1 (13) 2024 – Ohio Building Code (2021 IBC with Ohio amendments) **ENERGY CODE:** OAC 4101:1 (27) 2024 - OBC Chapter 11 and ICC A117.1 - 2017 new construction, 2009 for **ELECTRICAL CODE:** alterations / change of use

OAC 4101:2 (1-15) 2021 – IECC and ASHRAE 90.1-2019 (with Ohio amendments) MECHANICAL CODE: OAC 4101:3 (1-15) 2024 – OBC Chapter 27 and National Electrical Code NFPA 70-23 PLUMBING CODE:

2024 - Ohio Mechanical Code (2021 IMC with Ohio amendments)

2024 - Ohio Plumbing Code (2021 IPC with Ohio amendments)

4A Greene County

CLIMATE ZONE (IECC C301.1):

USE AND OCCUPANCY CLASSIFICATION: ASSEMBLY GROUP A

OBC 303.1.1: SMALL BUILDINGS AND TENANT SPACES

A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B

GENERAL BUILDING HEIGHTS AND AREAS: OBC TABLE 504.3: ALLOWABLE HEIGHT:

> TYPE III-B CONSTRUCTION MAX 2 STORIES AND 55' HEIGHT 1 STORY ACTUAL AND 48' HEIGHT ACTUAL

OBC TABLE 506.2: BUILDING AREA:

TYPE III-B CONSTRUCTION 9,500 SF FLOOR ALLOWABLE 1,146 SF FLOOR ACTUAL

TYPE OF CONSTRUCTION: OBC TABLE 601:

TYPE III-B CONSTRUCTION

STRUCTURAL FRAME: 2-HOURS BEARING WALLS, EXTERIOR: BEARING WALLS, INTERIOR: 0-HOURS 0-HOURS NON-BEARING WALLS AND PARTITIONS:

FLOOR CONSTRUCTION: 0-HOURS ROOF CONSTRUCTION: 0-HOURS

MEANS OF EGRESS: DESIGN OCCUPANT LOAD: 39 OCCUPANTS OBC 1004.1:

OBC TABLE 1006.2.1: COMMON PATH OF EGRESS TRAVEL: A-3 = 75 FT MAX ALLOWABLE OBC TABLE 1006.3.4(2):STORIES WITH ONE EXIT OR ACCESS TO ONE EXIT FOR OTHER OCCUPANCIES

MAXIMUM OCCUPANT LOAD PER STORY: 29 MAXIMUM EXIT ACCESS TRAVEL DISTANCE IN FEET: 75

OBC 1027 EXTERIOR EXIT STAIRWAYS AND RAMPS

OBC 1027.3 OPEN SIDE: SEE CODE ELEVATIONS SHEET T-G3 OBC 1027.4 SIDE YARDS: SEE CODE SITE PLAN 3/T-G2

OBC 1027.5 LOCATION: SEE CODE SITE PLAN 3/T-G2

ACCESSIBILITY:

OBC TABLE 1106.1: 0 PARKING SPACES PROVIDED 0 REQUIRED ACCESSIBLE PARKING SPACES

OBC 1104.4: EXCEPTION 1 - NO ELEVATOR PROVIDED SINCE OBSERVATION PLATFORM IS LESS

PLUMBING FOR BASEMENT & FIRST FLOORS: OBC TABLE 2902.1 / OPC 403: REQUIRED MINIMUM PLUMBING FACILITIES

> WATER CLOSETS REQUIRED: 2

PROVIDED: 2 (IN ADJACENT BUILDING, PERMITTED SEPARATELY)

LAVATORIES REQUIRED:

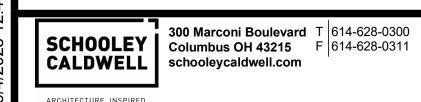
2 (IN ADJACENT BUILDING, PERMITTED SEPARATELY) PROVIDED:

DRINKING FOUNTAINS REQUIRED: 1

PROVIDED: 1 (IN ADJACENT BUILDING, PERMITTED SEPARATELY)

OTHER REQUIRED: 1 SERVICE SINK

OTHER PROVIDED: 1 SERVICE SINK (IN ADJACENT BUILDING, PERMITTED SEPARATELY)

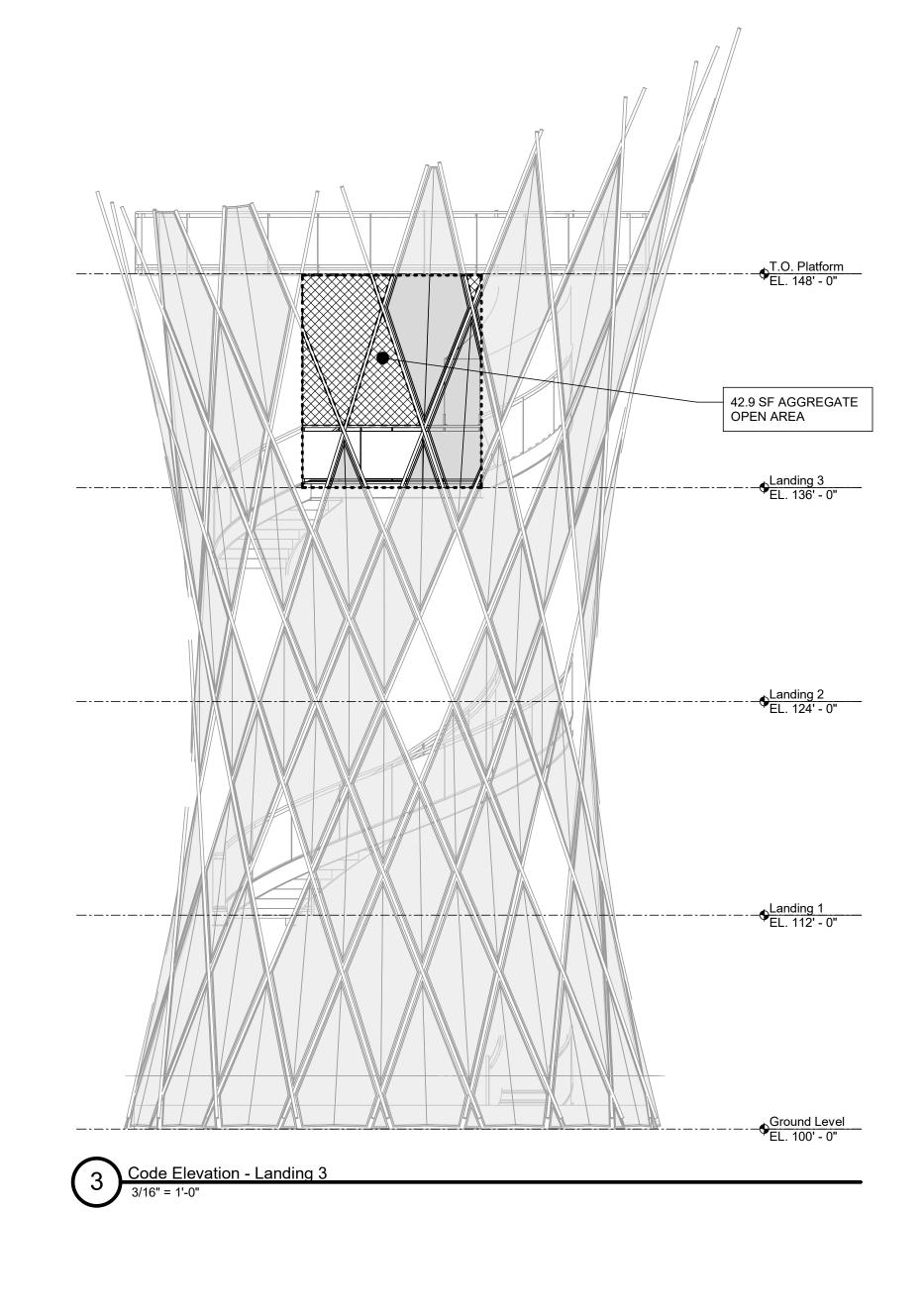


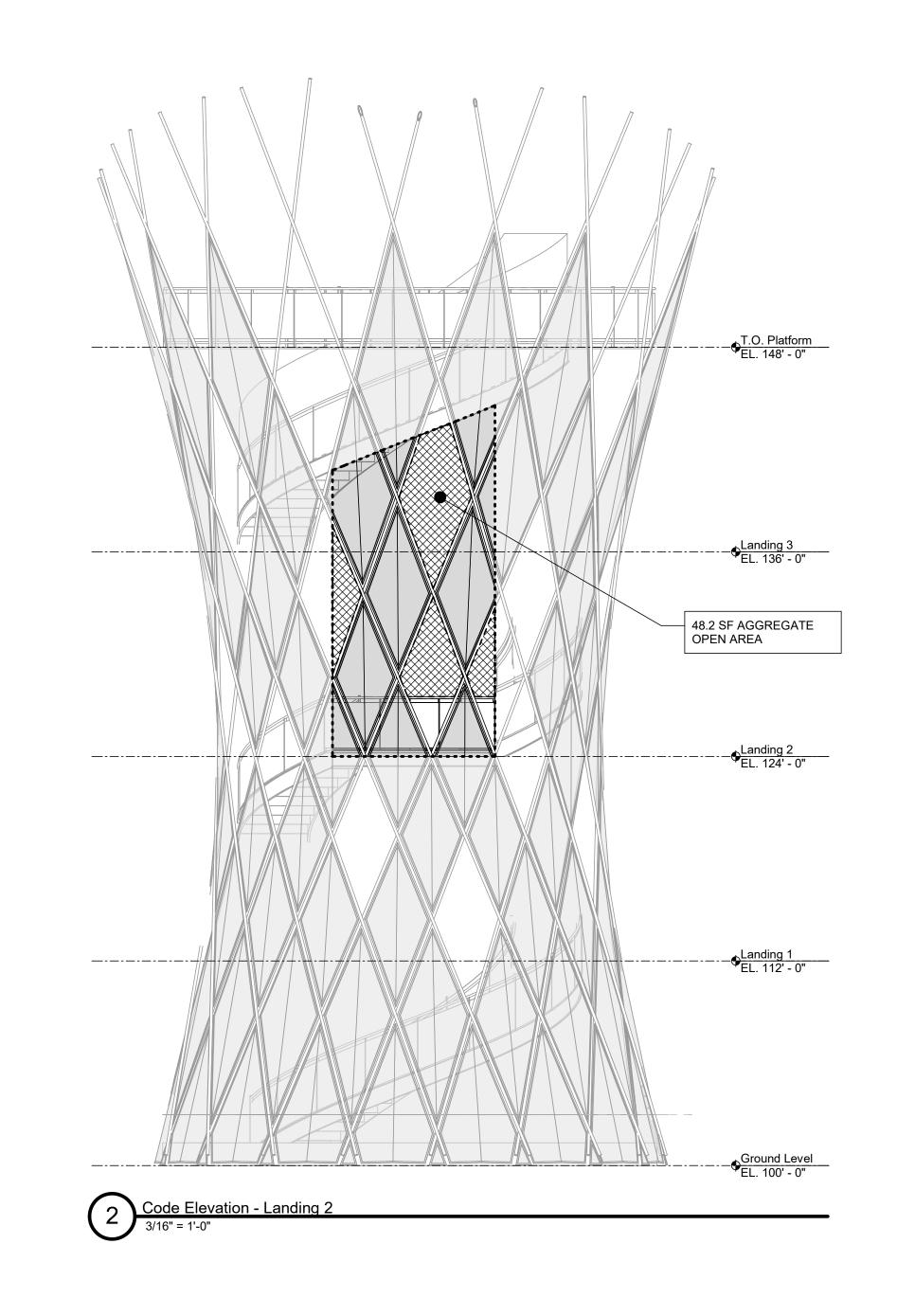


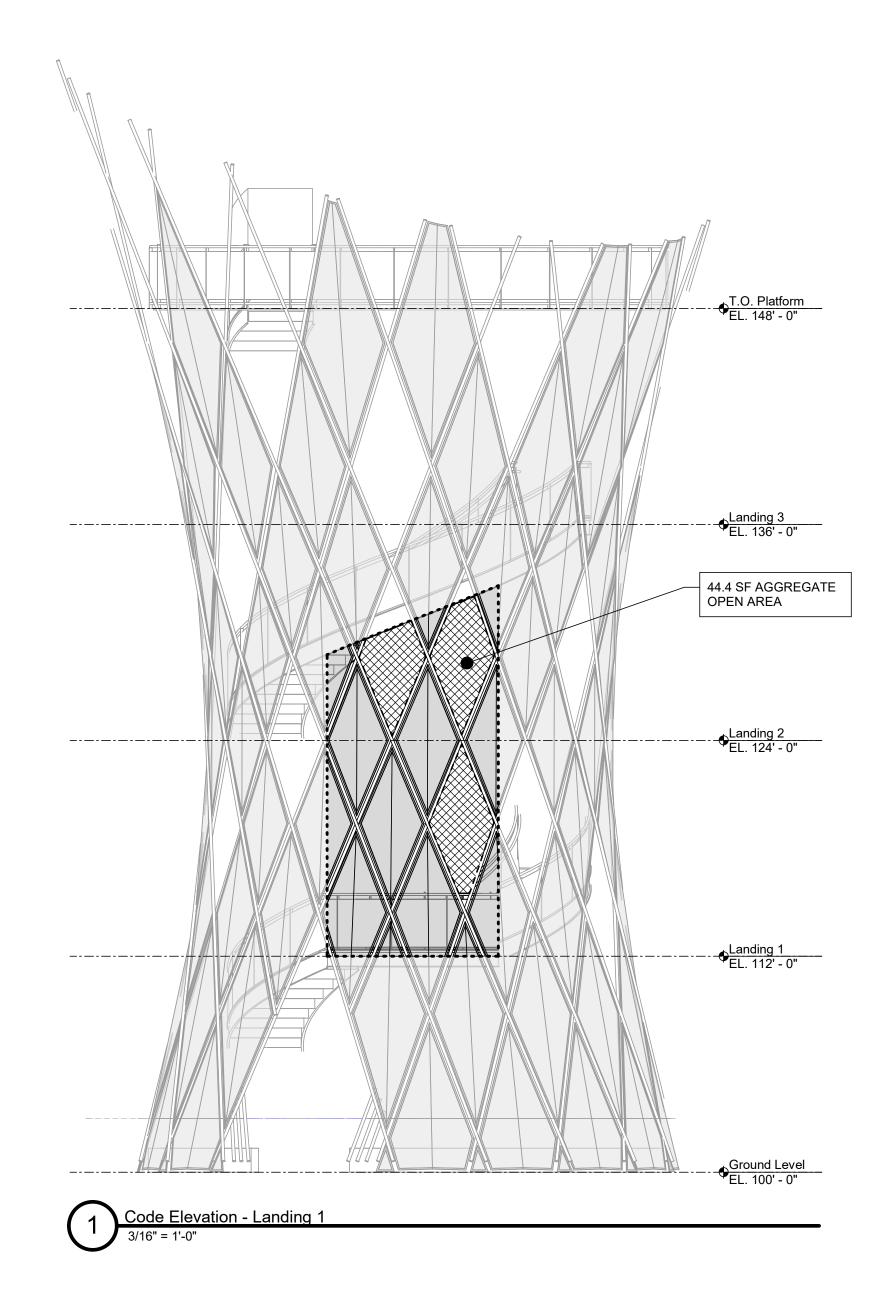


DESIGNED BY:	JOB NUMBER: DNR-250004	
DRAWN BY:	SCALE: AS NOTED	
CHECKED BY:	DATE: 08/28/2025	
APPROVED BY:	BID DOCUMENTS	







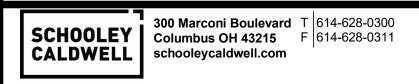




PERFORATED METAL PANEL (64% OPEN)



OPEN AREA







DESIGNED BY:	JOB NUMBER: DNR-250004	
DRAWN BY:	SCALE: AS NOTED	
CHECKED BY:	DATE: 08/28/2025	
APPROVED BY:	BID DOCUMENTS	

LOT 13 &14 DEPARTMENT OF NATURAL RESOURCES PB 2 PG 61 **UTILITY NOTES** UTILITY CONTACTS LOT 2 OLD TOWN CONTROL POINT PB 2 PG 61 IRON PIN WITH CAP 3/4" IRON PIN N:633,008.27 PROPOSED LEGEND S84°32'10"E 1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S "COSLER 6393" WITH CAP "ODNR" CHARTER COMMUNICATIONS/SPECTRUM OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER. MAINTAINING THE SAME GRADIENT AS E:1,564,303.99 CONSTRUCTION MANAGEMENT CENTER 3760 INTERCHANGE ROAD EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM ELEV = 837.00 INV SW = 831.09 221 E 4TH STREET, SUITE 347-300 COLUMBUS, OH 43204 OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON CINCINNATI, OH 45202 DL-MOH-CONSTRUCTION-FRELO-TEAM@CHARTER.COM COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE 513-566-8130 BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT YARD DRAIN CITY OF XENIA (SANITARY, STORM, 2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO DONALD MARSHALL, JR. **ENGINEERING DIVISION** THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND 111 N 4TH STREET ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION 107 EAST MAIN STREET COLUMBUS, OH 43215 OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN. XENIA. OH 45385 TOP = 838.40INV S = 834.70 (1.06 ACRES 937-296-3629 SAN MH #27 (PER PLA 937-376-7265 G01553@ATT.COM 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES TOP = 836.09 -RIM = 835.60M36-0001-0013-0-0051-0 AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY. INV S = 833.54 INV S = 821.58 STATE OF OHIO, AES OHIO DEPARTMENT OF NATURAL RESOURCES GRAVEL TRENCH SANITARY SEWER PIPE CONSTRUCTION CONTROL CENTER 4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO IN 2022003503 AT TIME OF SURVEY THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE PO BOX 1247 LOT 1B OLD TOWN || EDGE OF CONC RESPONSIBILITY OF THE CONTRACTOR. DAYTON, OH 45401 PB 39 PG 203B 800-424-5578 1.06 ACRES (DEED) 5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR CONSTRUCTIONCENTER@AES.COM TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND WATER VALVE INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY. 6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PONDING LIMITS INV 🖆 833.59 INV N = 833.53 INV SE ± 833.53 MONUMENT ROCK BENCH / INV W = 833.53 7. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED. 8. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE, THE MONUMENT ROCK - BIKE RACK CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES TOP = 836 12 ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED. TOP = 836.79#LINV NW = 833.37 -FF = 838.1 BIKE RACK ~ INV N = 834.09 INV \$ = 833.27 9. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS. THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS INV S = 834.04 REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, S CAST IRON FRAME -ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC. MUSEUM ELEVATION AND COVER 10. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE TOP = 835.69 FINISHED GRADE 1587 US-68 OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND INV CENTER = 830.19 - 100YR PONDING VEGETATIVE STABILIZATION. SAN MH #26 (PER PLAN) ELEV =843.87 RIM = 835.80EXISTING GROUND 11. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE INV N = 821.40845 FF = 838.1-INVS = 821.3012. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. EDGE OF CONC COORDINATE WITH CONSTRUCTION MANAGER. WALKCONTRACTOR SHALL -R=2909.93' PROPOSED GRADE-PROVIDE ALLOWANCE 13. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED. L=145.77' FOR ADJUSTMENT OF -∆=2°52'12" CASTING TO FINAL GRADE 97' - 6" STM @ 1.04% 14. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE BFARING=S1°55'19"W PIPE PER ODOT ITEM 707.43. HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33. ALUMINIZED CORRUGATED METAL. ODOT CHORD=145.75' ITEM 707.01. 707.02. OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" 6" PLUG — AREA UNDER ~ 2" WATER SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. MONUMENT ROCK CONSTRUCTION ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS. SERVICE - CAST-IN-PLACE - INSTALL ADS ENVIROHOOD WRAP PIPE WITH ASPHALT -3000 PSI 15. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC 5818AG0412 OVER ORIFICE PLATE TOP = 836.87 ROOFING (OR EQUIVALENT CONCRETE MONUMENT ROCK 7 ─ 6" SAN SERVICE CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL. WITH 1-3/8" Ø ORIFICE AT INV N = 833.62MATERIAL) TO ELIMINATE GRAVEL TRENCH INV SE = 833.57 BONDING 16. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO AT TIME OF SURVEY CONSTRUCTION OF THE SEWER. TOP = 835.517. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM. LINV N = 832.9INV = 832.99 -- 🥫 6" CLEANOUT 18. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED 6"X45° ELBOW =6"PVC 12" RCP 7 2" RCP 1 /NV = 833.29 -TOP = 834.87 DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A -INV N = 829.42CONDITION SATISFACTORY TO THE ENGINEER. 0+96.94 0+00 INV S = 829.42 19. SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE **YD 2 - HW 1** EE E GREENE COUNTY. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE GREENE COUNTY AND OHIO EPA. SANITARY TOP = 834.53 SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" INV NW = 829.90 -1/2" IRON PIPE-N 632760.94 CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM INV E = 829.90 INVW = 830.E 1564356.65 TOP = 832.27 INV NE = 830.ODOT CB NO. 2-3 -TOP = 840.49 LINV SW = 830.04 GRATE=834.05 20. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND INV SE = 830.12 WINDOW=832.80 6"H x 36"W (NW) NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" *─TOP = 840.78* INV IN=829.22 12" (N) BELOW & 12" ABOVE THE PIPE. INV OUT=829.22 12" (SE) M36-0001-0014-0-0019-00 21. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE **CLEANOUT DETAIL** STATE OF OHIO LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10' DEPTARTMENT OF NATURAL RESOURCES INV NW = 829.10 HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE IN 2023006531 OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE ► DECOMMISSION EX SEPTIC TANK PER 13.873 ACRES (DEED) BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4' OF COVER. GREENE COUNTY HEALTH DEPARTMENT REGULATIONS CONNECT TO EX 20" WATER 22. WATERLINE 2 INCHES AND UNDER TO BE TYPE "K" SOFT COPPER TUBING, ASTM B 88, OR APPROVED POLYTUBING. II H 2" CORP STOP SAN MH #25 (PER PLAN) ENCLOSURE HUBBELL HBF4E OR RIM = 833.20APPROVED EQUAL ON CONCRETE INV N = 821.00PAD WITH WATER METER & ASSE BUILDING -INV S = 820.90 1013 BACKFLOW PREVĘNŢĘR CAST IRON DOWNSPOUT BOOT CONNECT TO EX 18" SAN WITH INSERTATEE AND RISER 6" SAN SERVICE=826.30 18" SAN INV=820.86 - 6" PVC 60° ELBOW 6" PVC PIPIN CONTROL POINT - DOWNSPOUT COLLECTOR - PROPOSED SIZE VARIES, SEE UTILITY N:632,684.98 DETENTION BASIN 6" DOWNSPOUT -PLAN FOR ACTUAL SIZE 100YR PONDING E:1,564,167.43 COLLECTOR @ ELEV=843.82 ELEV = 835.03 1.04% MIN. - REDUCER TO 6" DOWNSPOUT DOWNSPOUT COLLECTOR COLLECTOR @ 1.04% MIN. DOWNSPOUT BOOT DETAIL INV=842.21 6" DOWNSPOUT -COLLECTOR @ 1.04% MIN. WATER CONNECTION TO PROPOSED BUILDING. REFER TO MEP PLAN FOR DETAILS SANITARY CONNECTION TO PROPOSED BUILDING. REFER TO MEP PLAN FOR DETAILS 97' - 6" STM @ 1.04% INV=839.29 **MICHAEL** 26' - 6" SAN @ 2.08% MIN. —— INV=839.83 — COUVREUR SANITARY CONNECTION TO N:632,528.95 PROPOSED BUILDING. REFER E:1,563,856.17 TO MEP PLAN FOR DETAILS ELEV = 842.3 **KLEINGERS** WATER CONNECTION TO PROPOSED BUILDING, REFER TO MEP PLAN FOR DETAILS 6" DOWNSPOU COLLECTOR @ www.kleingers.com CIVIL ENGINEERING 350 Worthington Rd LANDSCAPE Westerville, OH 43082 614.882.4311 DESIGNED BY: MGP / CM JOB NUMBER: DNR-250004 **300 Marconi Boulevard** T 614-628-0300 **GREAT COUNCIL STATE PARK Columbus OH 43215** F |614-628-0311 DRAWN BY: MGP / CM SCALE: AS NOTED **UTILITY PLAN** ENGINEERING CALDWELL schooleycaldwell.com **OBSERVATION TOWER, RESTROOM, AND MAINTENANCE** DATE: 08/28/2025 CHECKED BY: MS

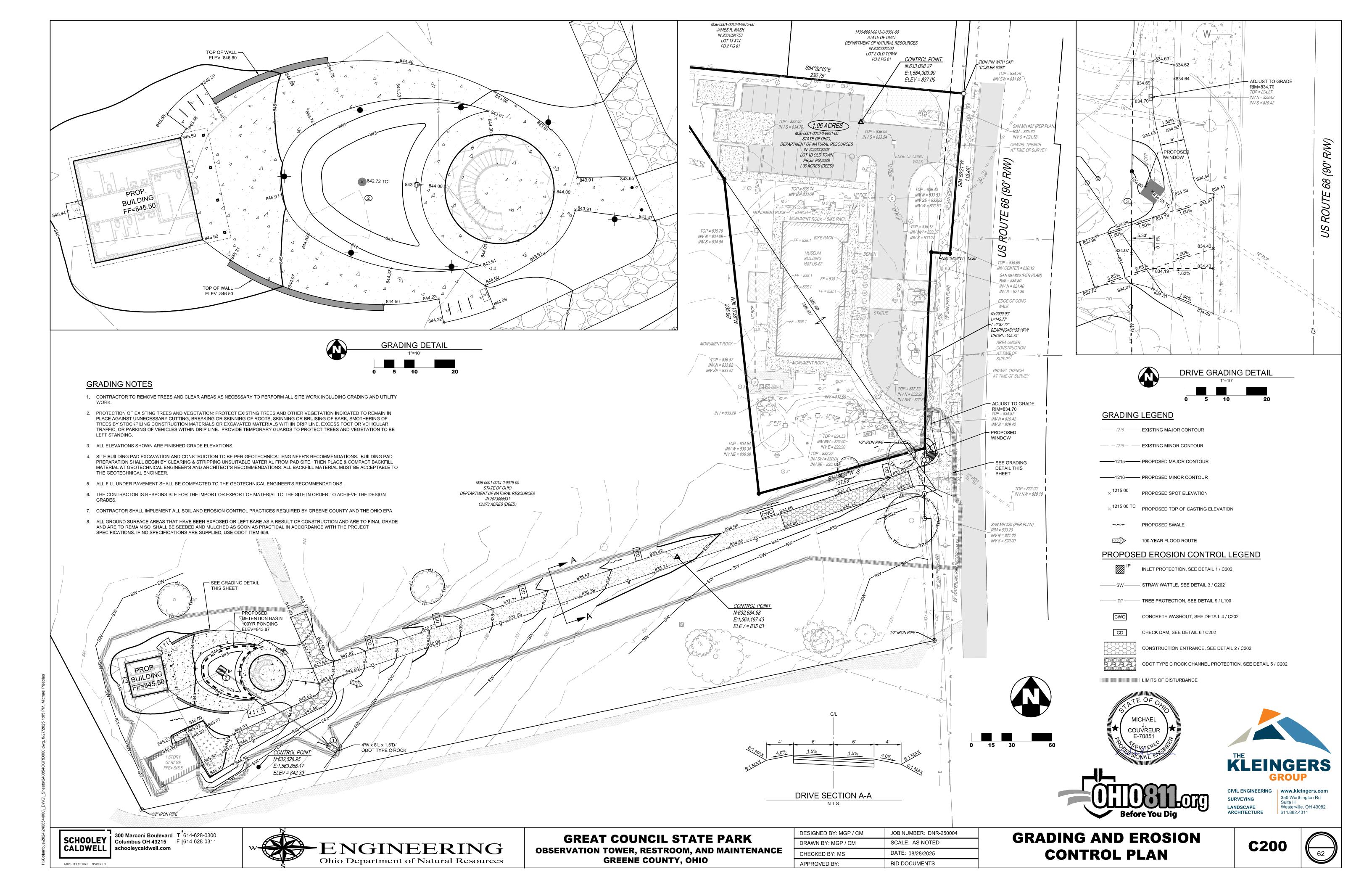
ARCHITECTURE, INSPIRED



GREENE COUNTY, OHIO

BID DOCUMENTS APPROVED BY:





LATITUDE: N 39°43'41.94" LONGITUDE: W 83°56'16.73" ESTIMATED CONSTRUCTION DATES: 10/01/2025 - 12/01/2026

13.88 ACRES TOTAL SITE AREA: TOTAL DISTURBED AREA: 0.70 ACRES 0.53 ACRES EXISTING IMPERVIOUS AREA: PROPOSED IMPERVIOUS AREA: 0.66 ACRES TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION: 0.66 ACRES

PRE-CONSTRUCTION RUNOFF COEFFICIENT: C=0.61 POST-CONSTRUCTION RUNOFF COEFFICIENT: C=0.61

IMMEDIATE RECEIVING WATER/MS4: OLDTOWN CREEK ULTIMATE RECEIVING STREAM: LITTLE MIAMI RIVER

STATE PARK EXISTING LAND USE: SOILS: EmB2, EmB, EmA

CONSTRUCTION SEQUENCE

INCREASE IN IMPERVIOUS AREA:

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE INLET PROTECTION AND PERIMETER CONTROLS WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS.

- A. INSTALL CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA, TREE PROTECTION, PERIMETER CONTROLS AND INLET PROTECTION ON **EXISTING STRUCTURES.**
- B. STRIP AND STOCKPILE TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA. MAINTAIN STOCKPILES WITH TEMPORARY SEEDING. INSTALL ALL TEMPORARY SEDIMENT CONTROLS WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
- C. PERFORM MASS GRADING FOR PAVED AREAS. E. INSTALL SITE UTILITIES AND INLET PROTECTION ON NEW STORM STRUCTURES AS WORK PROGRESSES. ANY DISTURBED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION.
- F. INSTALL FINAL PAVING AND WALKS.
- G. PROVIDE PERMANENT STABILIZATION FOR ANY DISTURBED AREAS AND REMOVE TEMPORARY SEDIMENT CONTROLS, PERIMETER CONTROLS, AND INLET PROTECTION.
- H. MAINTAIN POST CONSTRUCTION BMPs AS REQUIRED.

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE.

ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.

SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF
- POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE,

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN

POSSIBLE, OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED. MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY

REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION							
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS						
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE						
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE						
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA						

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION						
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS					
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS					
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).					
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER					

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR **ANCHORING MULCH:**

- MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
- MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
- SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
- WOOD CELLULOSE FIBER WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTRO								
SEED TYPE	PER 1,000 SQ FT	PER ACRE						
PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS						
SMALL GRAIN STRAW	90 POUNDS	2 TONS						
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12						

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	М	Α	М	J	J	Α	s	0	N	D	
PERMANENT SEEDING			•	•	•	*	*	*	•	•			* IRRIGATION NEEDED
DORMANT SEEDING	•	•	•							•	•	•	** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS
TEMPORARY SEEDING			•	•	•	*	*	*	•	•			APPLIED
SODDING			**	**	**	**	**	**	**				
MULCHING	•	•	•	•	•	•	•	•	•	•	•	•	

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

- THE INSPECTION DATE;
 - NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
- WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION; LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
- LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
- LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.
- MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

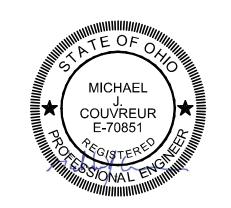
DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING. DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

- VEGETATIVE COVER AND/MULCH APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION
- WATERING SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED. ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- SPRAY-ON ADHESIVES APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

<u>ADHESIVE</u>	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3,5:1	COARSE	350





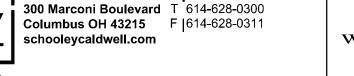


LANDSCAPE ARCHITECTURE

Westerville, OH 43082 614.882.4311



ARCHITECTURE, INSPIRED



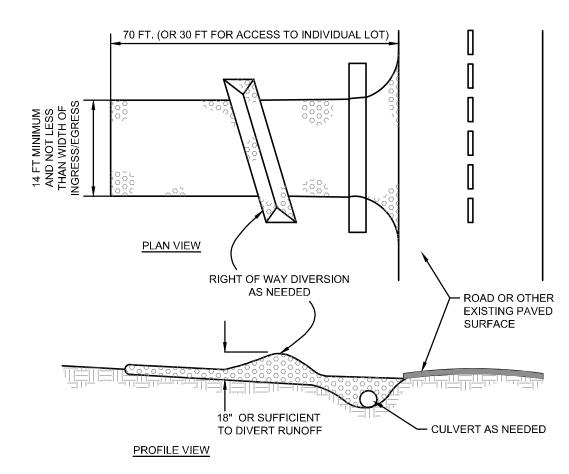


MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC ⁻¹	2.1

SPECIFICATIONS

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.



NOTES

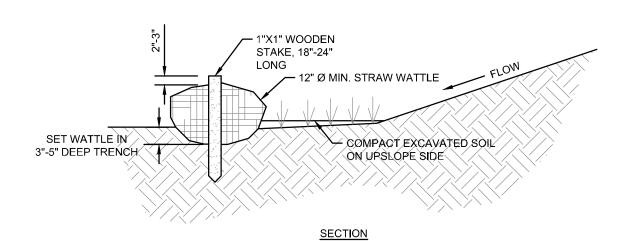
- 1. STONE SIZE ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE
- 3. THICKNESS THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR
- 4. WIDTH THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 LBS
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS< 0.6MM
PERMITTIVITY	1X10 ⁻³ CM/SEC

6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING

CONSTRUCTION ENTRANCE

- CULVERT A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEED ED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED. DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVE IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- 10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY
- 11. REMOVAL THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



NOTES:

- 1. MATERIALS WATTLE SHALL BE COMPOSED OF 100% WEED FREE AGRICULTURAL STRAW AND/OR COCONUT FIBER BE WRAPPED IN TUBULAR UV STABILIZED SYNTHETIC NET.
- 2. THE NETTING WEIGHT SHALL BE APPROXIMATELY 0.35 OUNCES/LINEAR FT. AND SHALL BE MADE FROM HDPE (HIGH DENSITY POLYETHYLENE) PHOTODEGRADABLE ORIENTED NET WITH UV INHIBITION. THE NETTING SHALL HAVE A DIAMOND SHAPED APERTURE MEASURING 0.50 X 0.50 INCHES (1.27 X 1.27 CM).
- 3. THE WATTLE ENDS WILL BE SECURED WITH CLOSURES.
- 4. MINIMUM WATTLE DIAMETER IS 12 INCHES AND SHALL HAVE A MINIMUM WEIGHT OF 2.5 LBS/LF

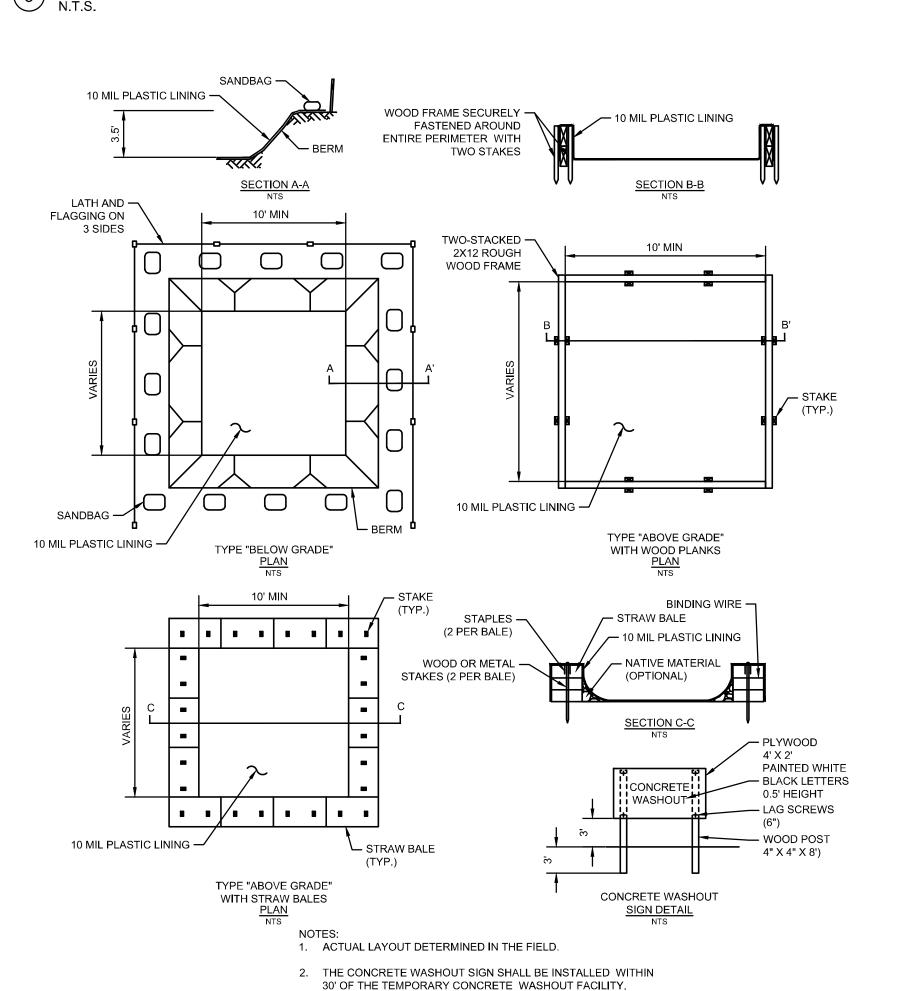
INSTALLATION:

- 5. WATTLES WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL WATTLES SHALL BE PROVIDED AT THE TOP AND AS NEEDED MIDSLOPE.
- 6. USE A HAND TOOL SUCH AS A MADDOX OR PICK TO SCORE THE GROUND. USING A SHOVEL, DIG THE TRENCH TO THE NEEDED DEPTH. SOIL FROM EXCAVATING THE TRENCHES CAN BE PLACED ON THE UPHILL, OR FLOW SIDE, OF THE TRENCH TO BE USED DURING INSTALLATION.

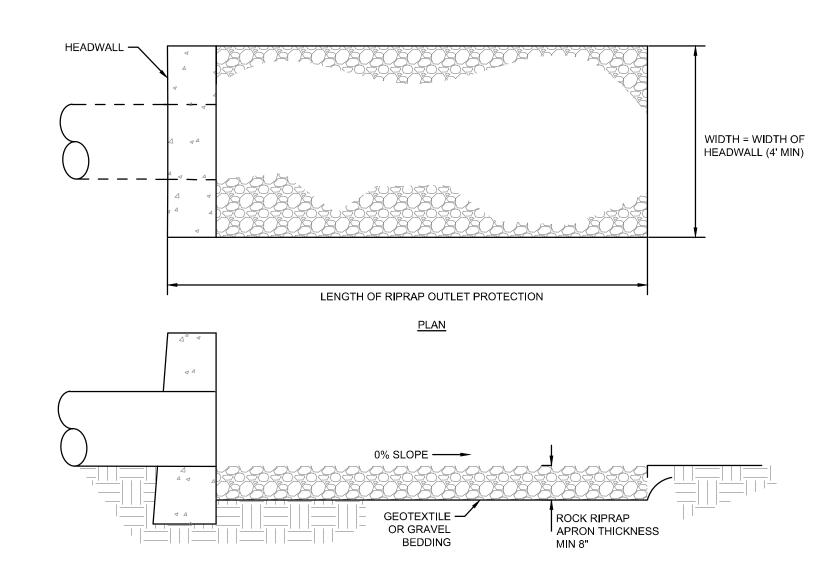
- 7. LAY THE FIRST STRAW WATTLE SNUGLY IN THE TRENCH. NO DAYLIGHT SHOULD BE SEEN UNDER THE WATTLE. PACK SOIL FROM TRENCHING AGAINST THE WATTLE ON THE UPHILL SIDE. WHEN INSTALLING RUNNING LENGTHS OF STRAW WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST WATTLE. DO NOT OVERLAP THE ENDS ON TOP OF EACH OTHER. STAKE THE STRAW WATTLES AT EACH END AND 3-4 FEET ON
- 8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE, LEAVING 2-3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. WHEN STRAW WATTLES ARE USED FOR FLAT GROUND APPLICATIONS. DRIVE THE STAKES STRAIGHT DOWN; WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.
- 9. WATTLES ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE:

- 10. ROUTINELY INSPECT WATTLES AFTER EACH SIGNIFICANT RAIN, MAINTAINING WATTLES IN A FUNCTIONAL CONDITION AT ALL TIMES.
- 11. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE WATTLES WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
- 12. WHERE THE WATTLE DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- 13. REMOVAL WATTLES WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT



CONSTRUCTION WASHOUT

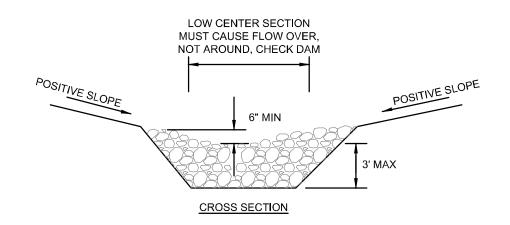


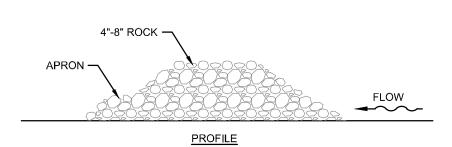
1. SUBGRADE FOR THE FILTER OR BEDDING AND RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES AS SHOWN ON THE PLAN. THE SUBGRADE SHALL BE CLEARED OF ALL TREES, STUMPS, ROOTS, SOD, LOOSE ROCK, OR OTHER MATERIAL.

<u>PROFILE</u>

- 2. RIPRAP SHALL CONFORM TO THE GRADING LIMITS AS SHOWN ON THE PLAN.
- 3. GEOTEXTILE SHALL BE SECURELY ANCHORED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS
- 4. GEOTEXTILE SHALL BE LAID WITH THE LONG DIMENSION PARALLEL TO THE DIRECTION OF FLOW AND SHALL BE LAID LOOSELY BUT WITHOUT WRINKLES AND CREASES. WHERE JOINTS ARE NECESSARY, STRIPS SHALL BE PLACED TO PROVIDE A 12-IN. MINIMUM OVERLAP, WITH THE UPSTREAM STRIP OVERLAPPING THE DOWNSTREAM STRIP.
- 5. GRAVEL BEDDING SHALL BE ODOT NO. 67'S OR 57'S UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
- 6. RIPRAP MAY BE PLACED BY EQUIPMENT BUT SHALL BE PLACED IN A MANNER TO PREVENT SLIPPAGE OR DAMAGE TO THE GEOTEXTILE.
- 7. RIPRAP SHALL BE PLACED BY A METHOD THAT DOES NOT CAUSE SEGREGATION OF SIZES. EXTENSIVE PUSHING WITH A DOZER CAUSES SEGREGATION AND SHALL BE AVOIDED BY DELIVERING RIPRAP NEAR ITS FINAL LOCATION WITHIN THE CHANNEL.
- 8. CONSTRUCTION SHALL BE SEQUENCED SO THAT OUTLET PROTECTION IS PLACED AND FUNCTIONAL WHEN THE STORM DRAIN, CULVERT, OR OPEN CHANNEL ABOVE IT BECOMES OPERATIONAL.
- 9. ALL DISTURBED AREAS WILL BE VEGETATED AS SOON AS PRACTICAL.

ROCK OUTLET PROTECTION





NOTES:

- 1. THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL. ODOT TYPE D STONE IS ACCEPTABLE, BUT SHOULD BE UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF ODOT NO. 3 OR 4 OR SUITABLE FILTER FABRIC.
- 2. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
- 3. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE
- 4. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES. 5. SPACING OF CHECK DAMS SHALL BE IN A MANNER SUCH THAT THE TOE OF THE
- UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM. 6. A SPLASH APRON SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME. A STONE APRON SHALL BE CONSTRUCTED

UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 IN. THICK AND ITS LENGTH

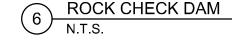
IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM

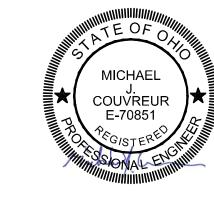
- TWO TIMES THE HEIGHT OF THE DAM. 7. STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS
- 8. SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

ACROSS ENTIRE CHANNEL.

MAINTENANCE

9. SEDIMENT SHALL BE REMOVED FROM BEHIND CHECK DAM ONCE IT ACCUMULATES TO ONE-HALF THE ORIGINAL HEIGHT OF THE CHECK DAM.







CIVIL ENGINEERING | www.kleingers.com LANDSCAPE ARCHITECTURE

350 Worthington Rd Westerville, OH 43082 614.882.4311



300 Marconi Boulevard T 614-628-0300 **Columbus OH 43215** F |614-628-0311 schooleycaldwell.com



GREAT COUNCIL STATE PARK OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO

DESIGNED BY: MGP / CM JOB NUMBER: DNR-250004 DRAWN BY: MGP / CM SCALE: AS NOTED DATE: 08/28/2025 CHECKED BY: MS APPROVED BY: BID DOCUMENTS

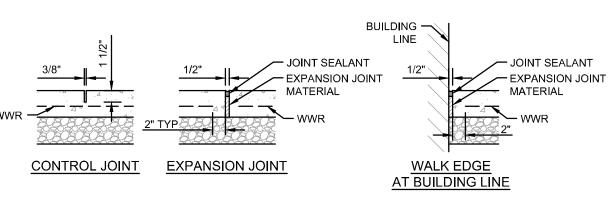
EROSION CONTROL DETAILS

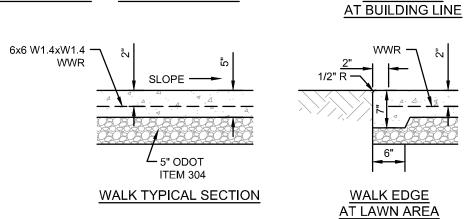


ARCHITECTURE. INSPIRED

- 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE 1 1/2" ODOT TEM 44 1 7 00 1 1 COURSE, TYPE 1 (448), PG64-22
- ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 3 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG64-22
- 4" ODOT ITEM 304 AGGREGATE BASE
- SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204 AND SOILS REPORT

ASPHALT PAVING

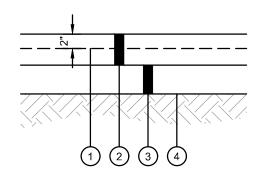




1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES. WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.

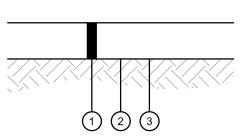
- 2. INSTALL CONTROL JOINTS AS SHOWN AND AT 12' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND SAWED. 3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS
- SLOPE OF 2.00%. 4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH
- WITH THE FINAL SURFACE. 5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING
- 6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL. 7. SEE SPECIFICATION 32 13 16.

CONCRETE WALK



- 1 6X6 W4XW4 WELDED WIRE REINFORCEMENT
- 8" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- (3) 6" ODOT ITEM 304 AGGREGATE BASE
- SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204 AND SOILS REPORT

3 HEAVY DUTY CONCRETE PAVING N.T.S.

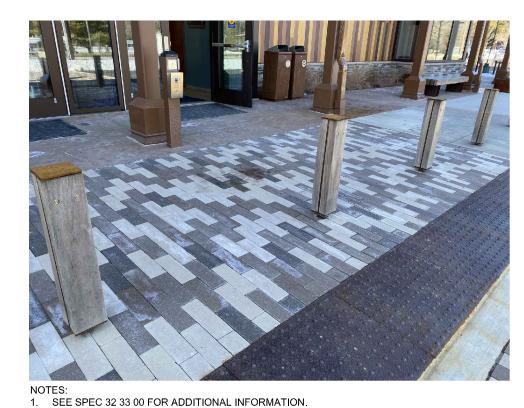


- 10" ODOT ITEM 304 AGGREGATE BASE
- (2) WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09 TYPE D
- 3 SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204 AND SOILS REPORT

4 GRAVEL PAVING N.T.S.

300 Marconi Boulevard T 614-628-0300 SCHOOLEY | Columbus OH 43215 | F |614-628-0311 CALDWELL schooleycaldwell.com





BOLLARD (5) N.T.S.

1. SEE SPEC 32 33 00 FOR ADDITIONAL INFORMATION

BIKE RACK

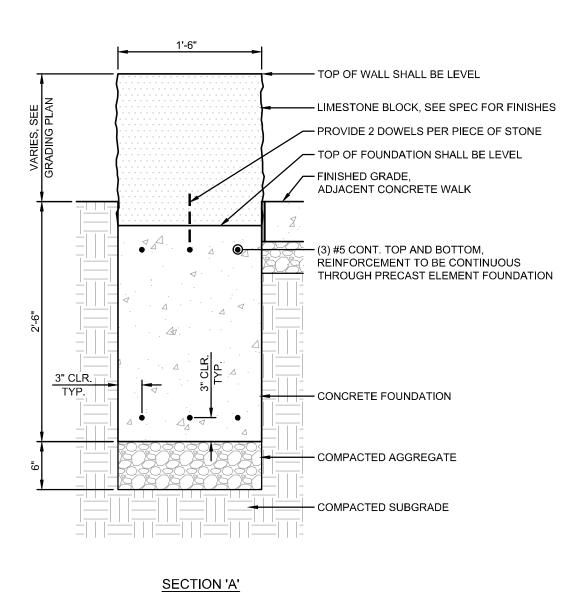


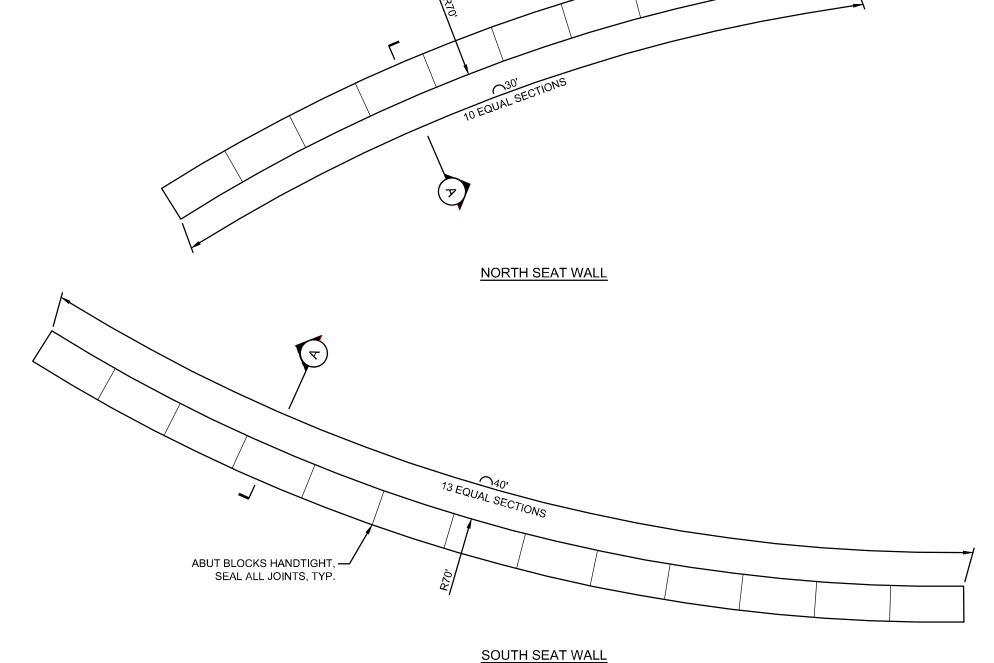
1. SEE SPEC 32 33 00 FOR ADDITIONAL INFORMATION

LITTER / RECYCLING RECEPTACLE

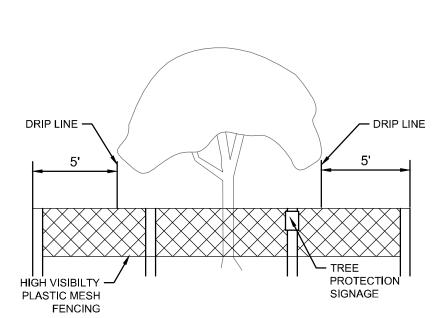
NOTES:

1. SEE SPEC 32 32 53 FOR ADDITIONAL INFORMATION.





SEAT WALL



DESIGNED BY: MGP / CM

DRAWN BY: MGP / CM

CHECKED BY: MS

APPROVED BY:

1. PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN 7. IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF

- VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND AND VEGETATION TO BE LEFT STANDING. 2. SIGNAGE SHALL CLEARLY IDENTIFY THE TREE AND NATURAL PRESERVATION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS
- 3. TREE AND NATURAL PRESERVATION AREA SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS.
- 4. FENCE MATERIALS SHALL BE METAL FENCE POSTS WITH SNOW FENCE. 5. FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED. 6. IF ANY CLEARING IS DONE AROUND SPECIMEN TREES IT SHALL BE DONE BY
- CUTTING AT GROUND LEVEL WITH HAND HELD TOOLS AND SHALL NOT BE GRUBBED OR PULLED OUT. NO CLEARING SHALL BE DONE IN BUFFER STRIPS OR OTHER PRESERVED FORESTED AREAS.
- NO FILLING OR STOCKPILING OF MATERIALS SHALL OCCUR WITHIN THE
- WHERE UTILITIES MUST RUN THROUGH A TREE'S DRIP LINE, TUNNELING SHOULD BE USED TO MINIMIZE ROOT DAMAGE. TUNNELING SHOULD BE AT A MINIMUM DEPTH OF 24 INCHES FOR TREES LESS THAN 12 INCHES IN DIAMETER OR AT A MINIMUM DEPTH OF 36 INCHES FOR LARGER DIAMETER
- 9. WHERE TUNNELING WILL BE PERFORMED WITHIN THE DRIP LINE OF A TREE, THE TUNNEL SHOULD BE PLACED A MINIMUM OF 2 FEET AWAY FROM THE TREE TRUNK TO AVOID TAPROOTS. 10. MINIMIZE EXCAVATION OR TRENCHING WITHIN THE DRIP LINE OF THE TREE.
- ROUTE TRENCHES AROUND THE DRIP LINE OF TREES. 11. ROOTS 2 INCHES OR LARGER THAT ARE SEVERED BY TRENCHING SHOULD BE SAWN OFF NEATLY IN ORDER TO ENCOURAGE NEW GROWTH AND
- . SOIL EXCAVATED DURING TRENCHING SHALL BE PILED ON THE SIDE AWAY
- IMMEDIATELY AFTER UTILITIES ARE INSTALLED OR REPAIRED.

TREE PROTECTION

TREE PROTECTION AREA, INCLUDING DEPOSITION OF SEDIMENT.

DISCOURAGE DECAY.

JOB NUMBER: DNR-250004

SCALE: AS NOTED

DATE: 08/28/2025

BID DOCUMENTS

13. ROOTS SHALL BE KEPT MOIST WHILE TRENCHES ARE OPEN AND REFILLED



BEAVERCREEK, OHIO 45434; PHONE: (937) 431-7701.

3. COLOR: RUST ORANGE, GREEN AND GRAY/TAN.

SIZE: 4' - 5' IN LENGTH, 18" - 24" IN HEIGHT AND WIDTH.



SITE DETAILS

LANDSCAPE

-STONE BENCH

COMPACTED AGGREGATE

COMPACTED SUBGRADE

SECTION

RUSTIC BENCHES SUPPLIED BY PHILLIPS LAND IMPROVEMENT CENTER, 636 PHILLIPS DRIVE,

-FINISHED GRADE

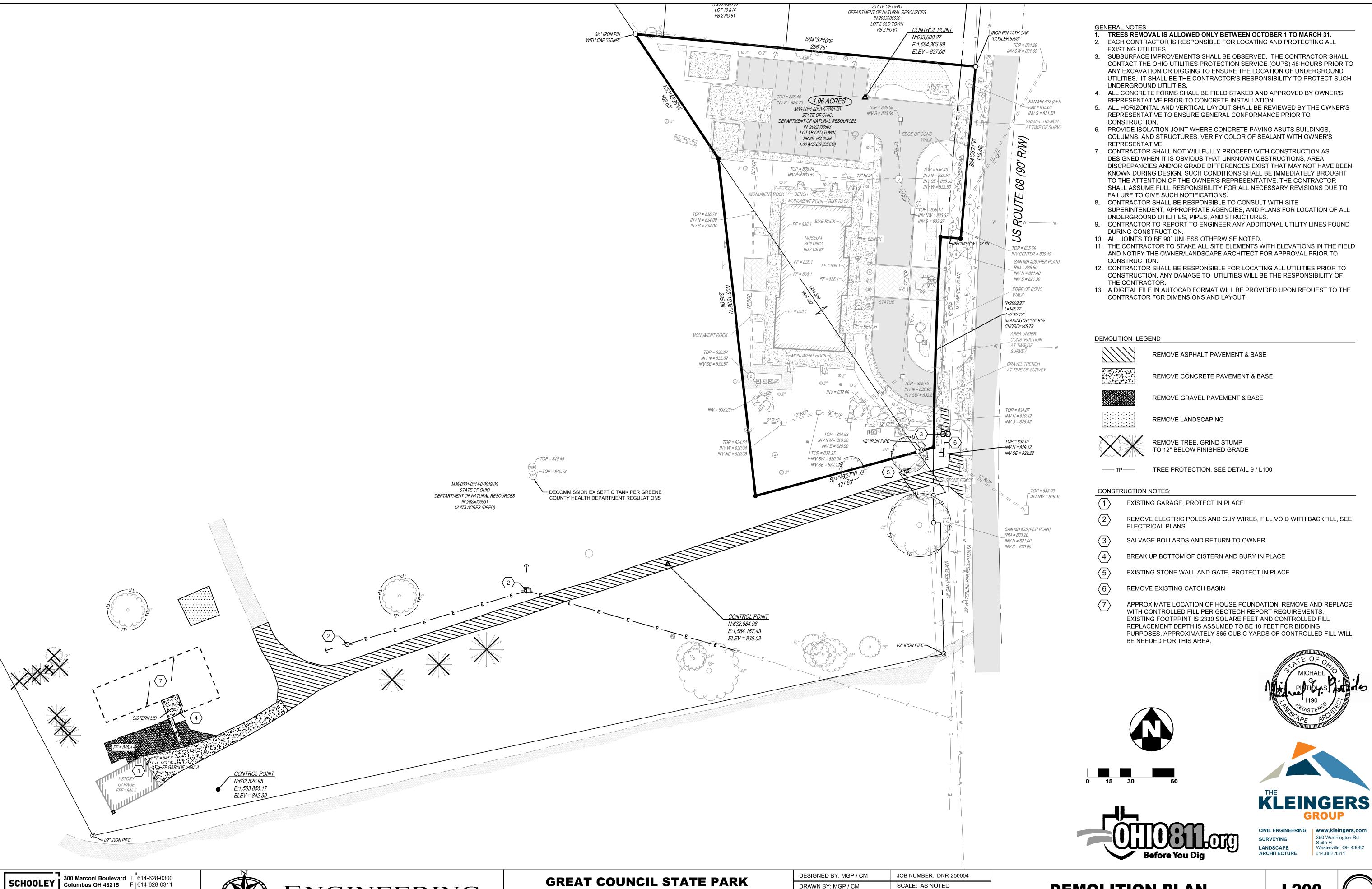
ASPHALT PAVEMENT, SEE

DETAIL, THIS SHEET

Westerville, OH 43082

614.882.4311

GREAT COUNCIL STATE PARK OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO



OBSERVATION TOWER, RESTROOM, AND MAINTENANCE

GREENE COUNTY, OHIO

ENGINEERING

Ohio Department of Natural Resources

CALDWELL

ARCHITECTURE. INSPIRED.

schooleycaldwell.com

www.kleingers.com 350 Worthington Rd

Westerville, OH 43082

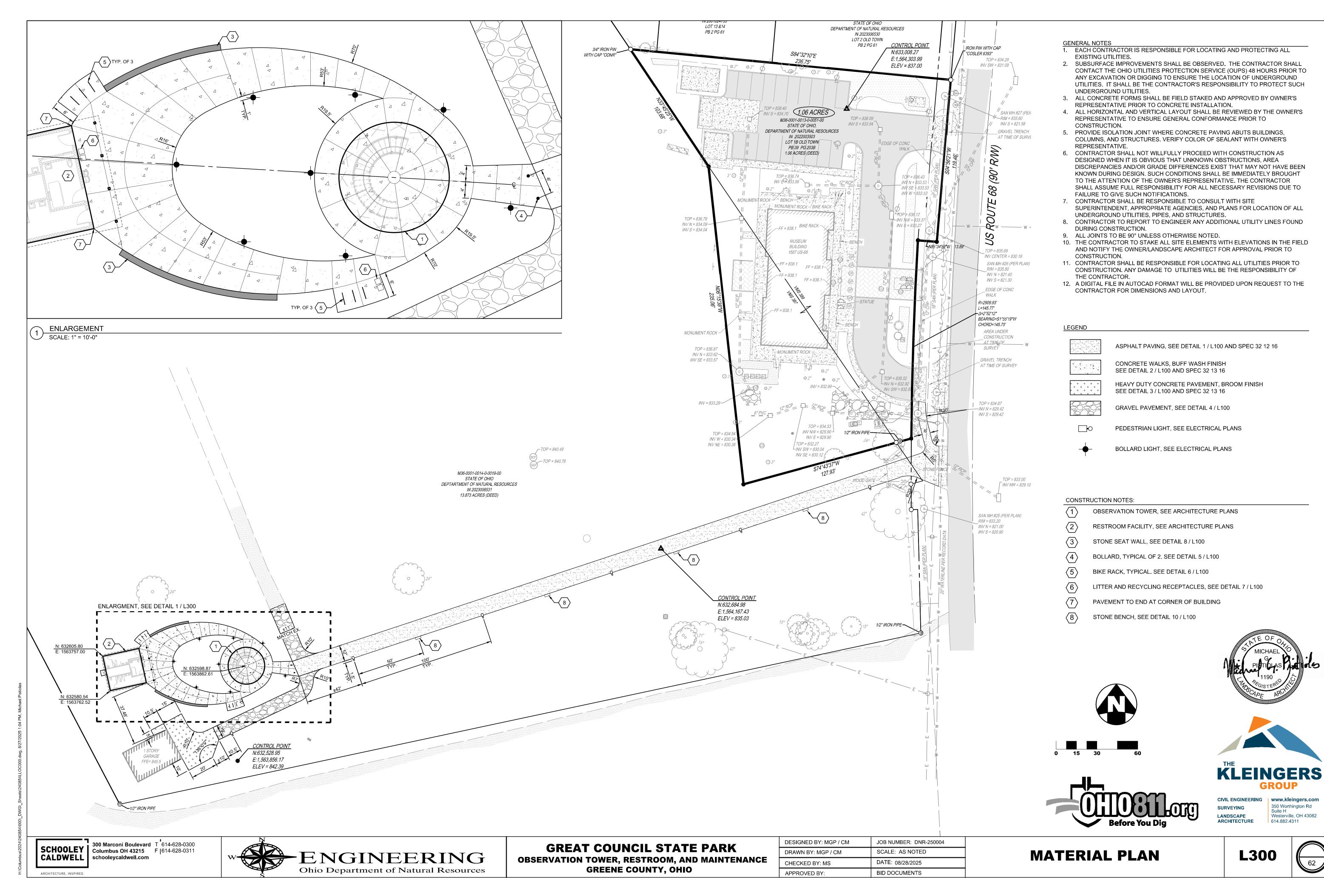
614.882.4311

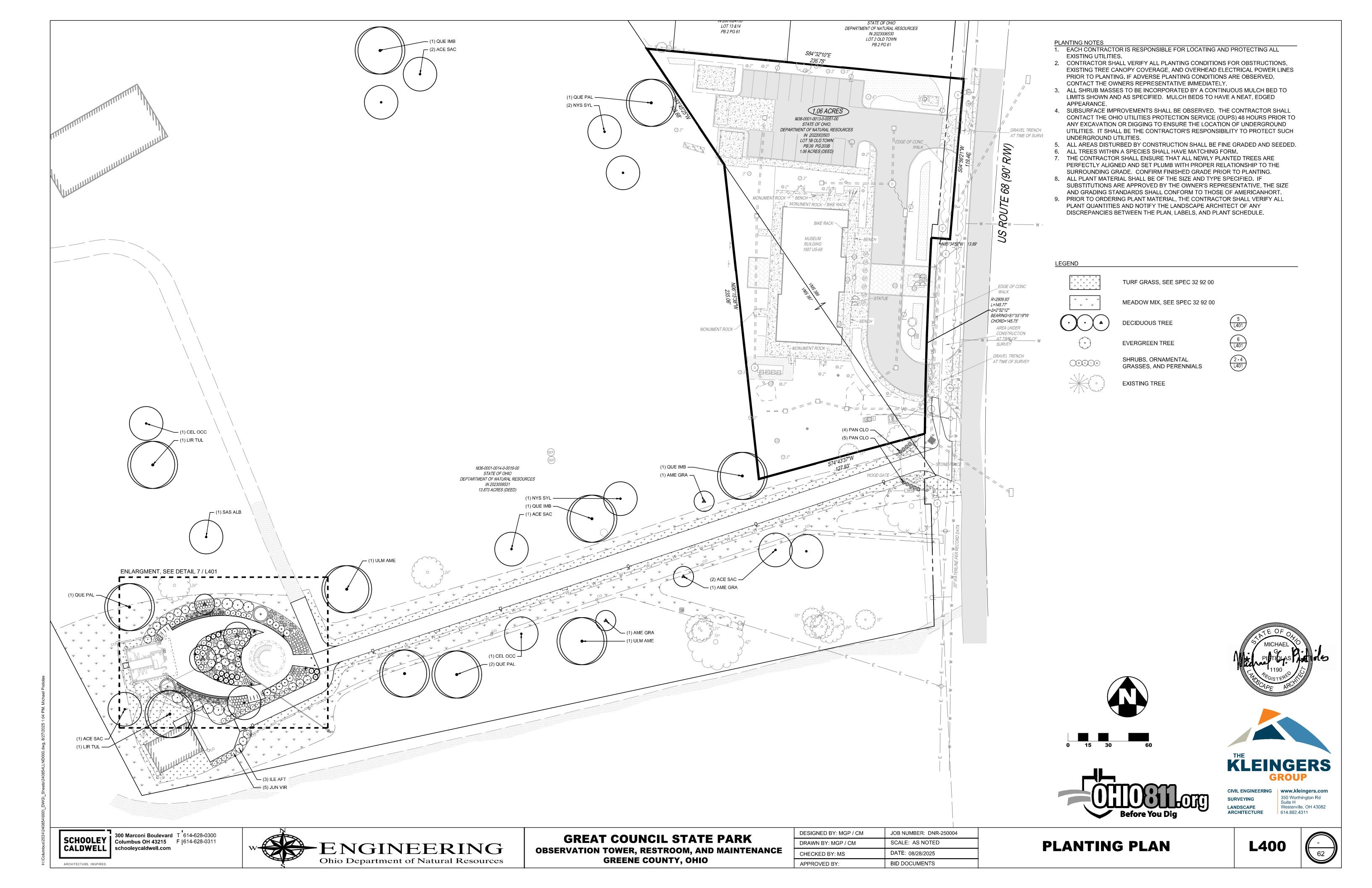
DATE: 08/28/2025

BID DOCUMENTS

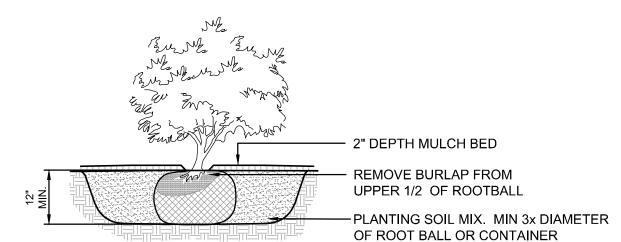
CHECKED BY: MS

APPROVED BY:





1 PLANTING BED / TREE PIT EDGING DETAIL N.T.S.



A = SPACING

B = SP/2

C = SP/1.2

D = SPACING

PLANTING BED

3 SHRUB PLANTING N.T.S.

SPACING	Α	В	С	D
12"	12"	6"	10"	12"
18"	18"	8"	15	18"
24"	24"	10"	20"	24"
30"	30"	15"	25"	30"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

— PLANT LOCATION EDGE OF WALK OR

PLANT SPACING
N.T.S.

-DO NOT CUT MAIN LEADER SET TRUNK PLUMB WITH EXISTING GRADE SLOW RELEASE WATERING **DEVICE PER SPECIFICATIONS** - 2" DEPTH MULCH BED (TYP.) FINISH GRADE -REMOVE TOP 1/2 OF BURLAP -PLANTING SOIL MIX, DIG TREE PIT 3 TIMES THE DIAMETER OF THE ROOT BALL COMPACT TO PREVENT ROOTBALL FROM SETTLING -UNDISTURBED EARTH

NOTES:

- TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.
- 4. DO NOT STAKE AND GUY TREES UNLESS NEEDED FOR STABILITY BASED ON SITE
- CONDITIONS OR A DIRECTED BY OWNER'S REPRESENTATIVE. PROVIDE SLOW RELEASE WATERING DEVICE. ONE PER TREE. REFER TO SPECIFICATIONS.

DECIDUOUS TREE PLANTING WITH WATERING DEVICE

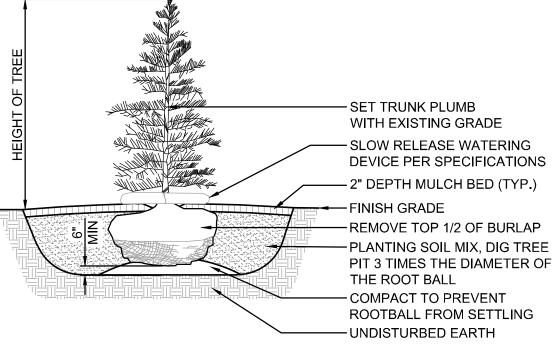
N.T.S.

schooleycaldwell.com



- CONTAINER PLANT - 2" DEPTH MULCH BED - PLANTING SOIL MIX. MIN 3x DIAMETER OF CONTAINER SCARIFY SIDES & BOTTOM OF ROOT SYSTEM

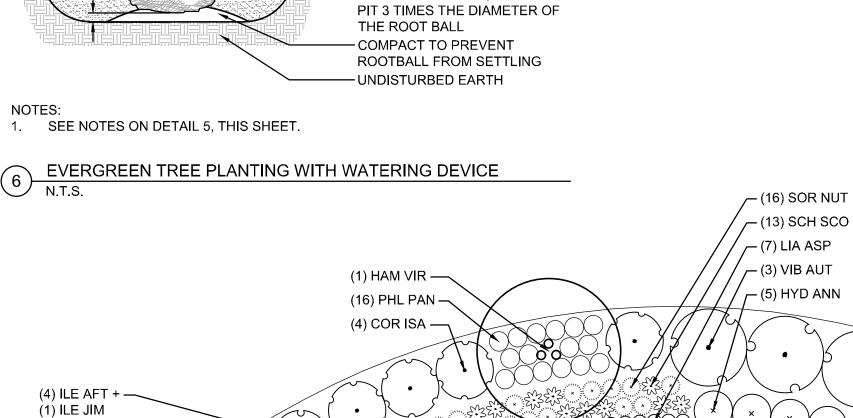
PERENNIAL / ORNAMENTAL GRASS PLANTING



(3) COR ARC —

(3) PAN SHE —

PLANTING ENLARGEMENT



(3) ARO MOR

(3) HYD ANN -

(5) COR ISA -(6) COR ARC —

(1) NYS SYL

(3) LOB CAR

- (24) SOR NUT

(17) SCH SCO

(3) HYD ANN — (4) LOB CAR -

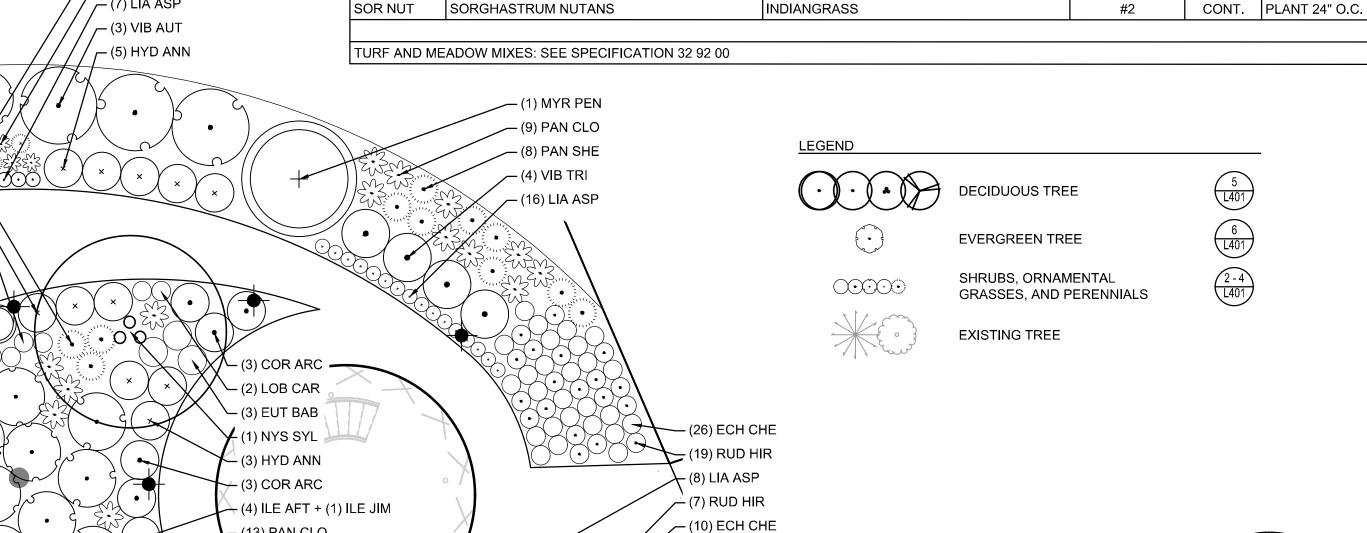
— (2) PAN SHE

PLANT SCHEDULE ROOT BOTANICAL NAME COMMON NAME SIZE REMARKS DECIDUOUS TREES: ACER SACCHARUM 'GREEN MOUNTAIN' GREEN MOUNTAIN SUGAR MAPLE B&B 3" CAL. MIN. AMELANCHIER x GRANDIFLORA AME GRA APPLE SERVICEBERRY 8' HT. MIN. B&B MULTI-STEM CEL OCC CELTIS OCCIDENTALIS HACKBERRY 3" CAL. MIN. B&B HAM VIR HAMAMELIS VIRGINIANA COMMON WITCHHAZEL 5' HT. MIN. B&B MULTI-STEM LIRIODENDRON TULIPIFERA TULIP TREE 3" CAL. MIN. B&B NYS SYL NYSSA SYLVATICA **BLACK GUM** B&B 3" CAL. MIN. QUERCUS IMBRICARIA SHINGLE OAK 3" CAL. MIN. B&B QUE PAL PIN OAK QUERCUS PALUSTRIS 3" CAL. MIN. B&B SASSAFRAS ALBIDUM SASSAFRAS 3" CAL. MIN. B&B ULM AME ULMUS AMERICANA 'NEW HARMONY' NEW HARMONY ELM 3" CAL. MIN. B&B

EVERGREEN	N TREES:				
JUN VIR	JUNIPERUS VIRGINIANA 'EMERALD SENTINEL'	EMERALD SENTINEL JUNIPER	6' HT. MIN.	B&B	PLANT 4' O.C.
SHRUBS:					
ARO MOR	ARONIA MELANOCARPA 'MORTON'	IROQUOIS BEAUTY CHOKEBERRY	24" HT. MIN.	CONT.	PLANT 4' O.C.
COD ABC	CODNIUS SEDICEA IADOTIC FIDE!	ADOTIC FIRE RED TWIC DOCWOOD	OATLIT MINI	CONT	DLANT 4' O C

00 = 0.					
ARO MOR	ARONIA MELANOCARPA 'MORTON'	IROQUOIS BEAUTY CHOKEBERRY	24" HT. MIN.	CONT.	PLANT 4' O.C.
COR ARC	CORNUS SERICEA 'ARCTIC FIRE'	ARCTIC FIRE RED TWIG DOGWOOD	24" HT. MIN.	CONT.	PLANT 4' O.C.
COR ISA	CORNUS SERICEA 'ISANTI'	ISANTI RED TWIG DOGWOOD	24" HT. MIN.	CONT.	PLANT 6' O.C.
HYD ANN	HYDRANGEA ARBORESCENS 'ANNABELLE'	ANNABELLE HYDRANGEA	24" HT. MIN.	CONT.	PLANT 4' O.C.
ILE AFT	ILEX VERTICILLATA 'AFTERGLOW'	AFTERGLOW WINTERBERRY	30" HT. MIN.	CONT.	PLANT 6' O.C.
ILE JIM	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	30" HT. MIN.	CONT.	PLANT 6' O.C.
MYR PEN	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	30" HT. MIN.	CONT.	PLANT AS SHOWN
VIB AUT	VIBURNUM DENTATUM 'AUTUMN JAZZ'	AUTUMN JAZZ VIBURNUM	5' HT. MIN.	B&B	PLANT 6' O.C.
VIB TRI	VIBURNUM TRILOBUM 'COMPACTUM'	COMPACT AMERICAN CRANBERRY BUSH	24" HT. MIN.	B&B	PLANT 5' O.C.
			·	-	

PERENNIAL	S AND ORNAMENTAL GRASSES:				
ASC INC	ASCLEPIAS INCARNATA	SWAMP MILKWEED	#2	CONT.	PLANT 30" O.C.
ECH CHE	ECHINACEA PURPUREA 'CHEYENNE SPIRIT'	CHEYENNE SPIRIT PURPLE CONEFLOWER	#2	CONT.	PLANT 24" O.C.
EUT BAB	EUTROCHIUM DUBIUM 'BABY JOE'	BABY JOE PYE WEED	#2	CONT.	PLANT 36" O.C.
LIA ASP	LIATRIS ASPERA	BUTTON BLAZING STAR	#2	CONT.	PLANT 18" O.C.
LOB CAR	LOBELIA CARDINALIS	CARDINAL FLOWER	#2	CONT.	PLANT 24" O.C.
PAN CLO	PANICUM VIRGATUM 'CLOUD NINE'	CLOUD NINE SWITCH GRASS	#2	CONT.	PLANT 36" O.C.
PAN SHE	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	#2	CONT.	PLANT 36" O.C.
PHL PAN	PHLOX PANICULATA	GARDEN PHLOX	#2	CONT.	PLANT 24" O.C.
RUD HIR	RUDBECKIA HIRTA	BLACK EYED SUSAN	#2	CONT.	PLANT 24" O.C.
SCH SCO	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#2	CONT.	PLANT 24" O.C.



(14) JUN VIR

(3) ARO MOR





LANDSCAPE

350 Worthington Rd Westerville, OH 43082 614.882.4311

CIVIL ENGINEERING | www.kleingers.com

GREAT COUNCIL STATE PARK OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO

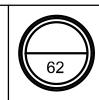
DESIGNED BY: MGP / CM JOB NUMBER: DNR-250004 SCALE: AS NOTED DRAWN BY: MGP / CM DATE: 08/28/2025 CHECKED BY: MS APPROVED BY: BID DOCUMENTS

+ (13) PAN CLO

(8) ARO MOR — (2) HYD ANN







300 Marconi Boulevard T 614-628-0300 **Columbus OH 43215** F | 614-628-0311

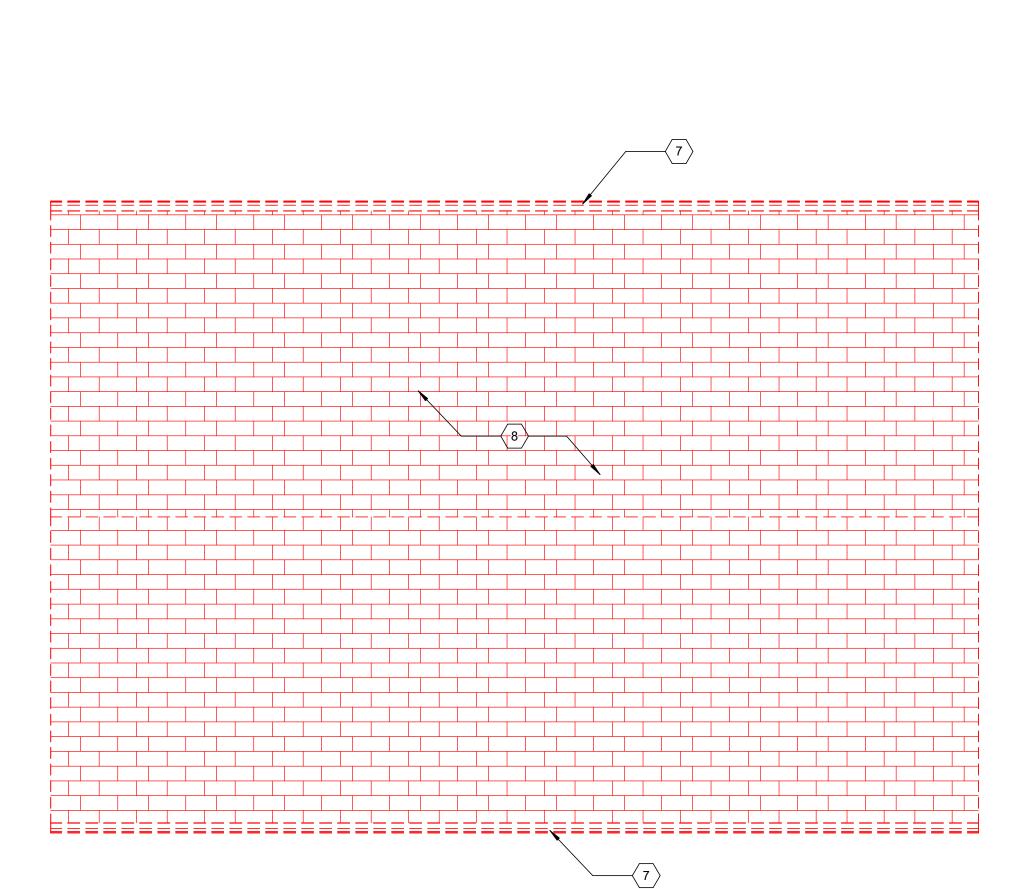
CALDWELL

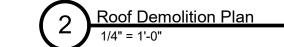
ARCHITECTURE. INSPIRED

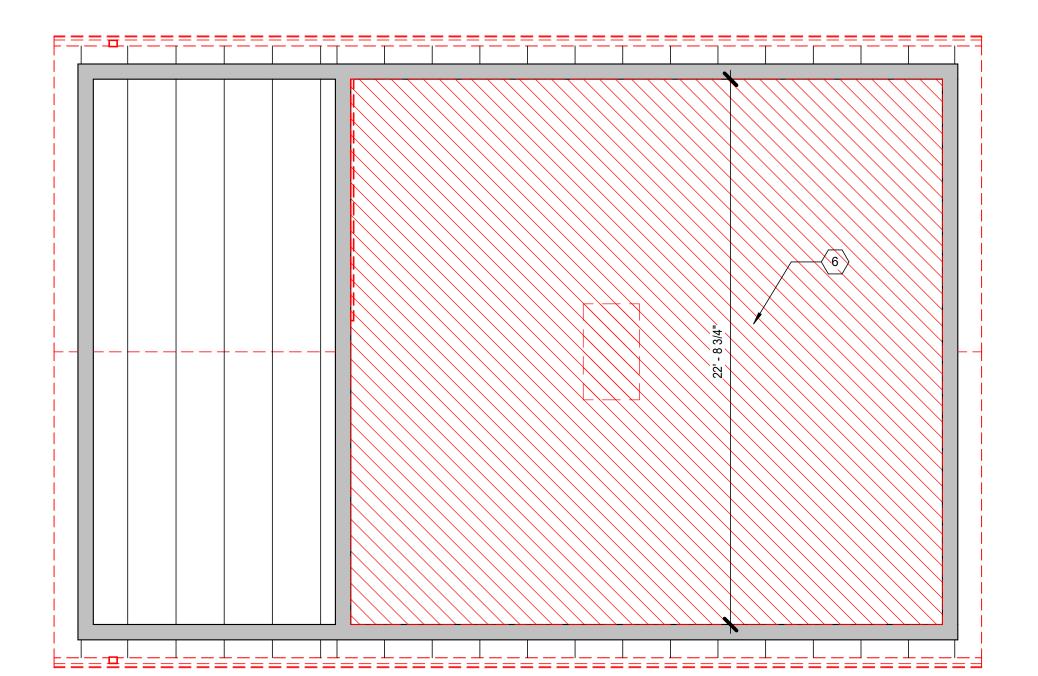
- C. Coodinate areas with enlarged plans and new work plans.
- D. Coordinate all demolition work with New Work plans. Review New Work drawings to verify and/or determine extent of demolition prior to performing demolition work.
- E. Refer to Mechanical, Plumbing, and Electrical plans for extent of equipment, fixtures, and ductwork to be removed. Remove abandoned or unused plumbing.
- F. For all removed finishes, furnishings, casework and building elements the demolition shall include all mounting materials, adhesives, hardware, fasteners or other associated supporting elements of the construction.
- G. At interior walls where doors and windows have been removed, patch back the opening to match the thickness and construciton of the adjacent wall surfaces as required for the new work.
- H. At all removed interior walls, patch to match adjacent wall and ceiling.

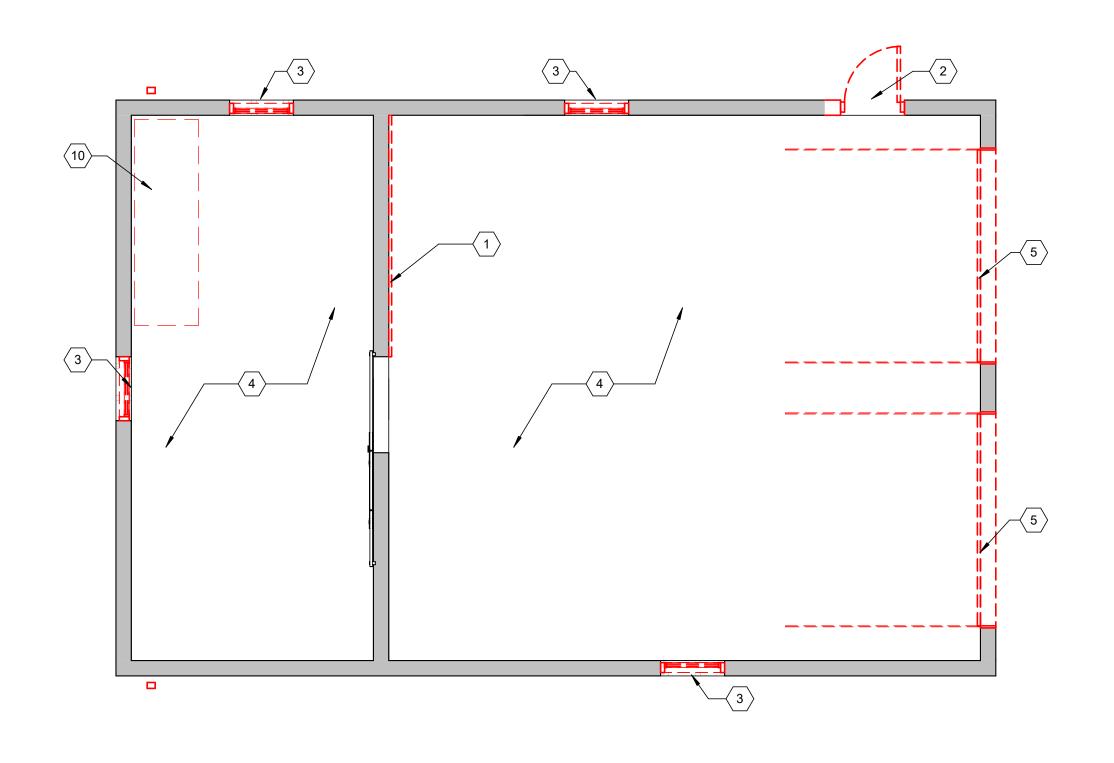
□ DEMOLITION - CODED NOTES

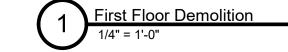
- 1. Remove panelling and wall furring.
- 2. Remove exisiting door. Repair CMU header as required for new door and door frame. Provide new (2) L3 1/2x3 1/2x1/4 Lintel w/ 8" BRG
- 3. Remove existing window. Patch/grout CMU as required for new windows. At all window openings where there is no existing steel lintel, provide (2) L3 1/2x3 1/2x1/4 w/ 8" BRG each end.
- 4. Remove all existing electrical panels, lighting, wiring, and devices.
- Demo existing garage doors.
- 6. Remove existing plywood ceiling for future access.
- 7. Remove existing gutters and downspouts.
- 8. Remove existing shingles and underlayment down to roof sheathing.
- 9. Remove existing vinyl siding and air/weather barrier down to sheathing.
- 10. Remove/salvage work bench for reinstallation during new work.
- 11. Widen existing opening for new door. Refer to new work plan.
- 12. New opening for new louver. Refer to mechanical drawings.















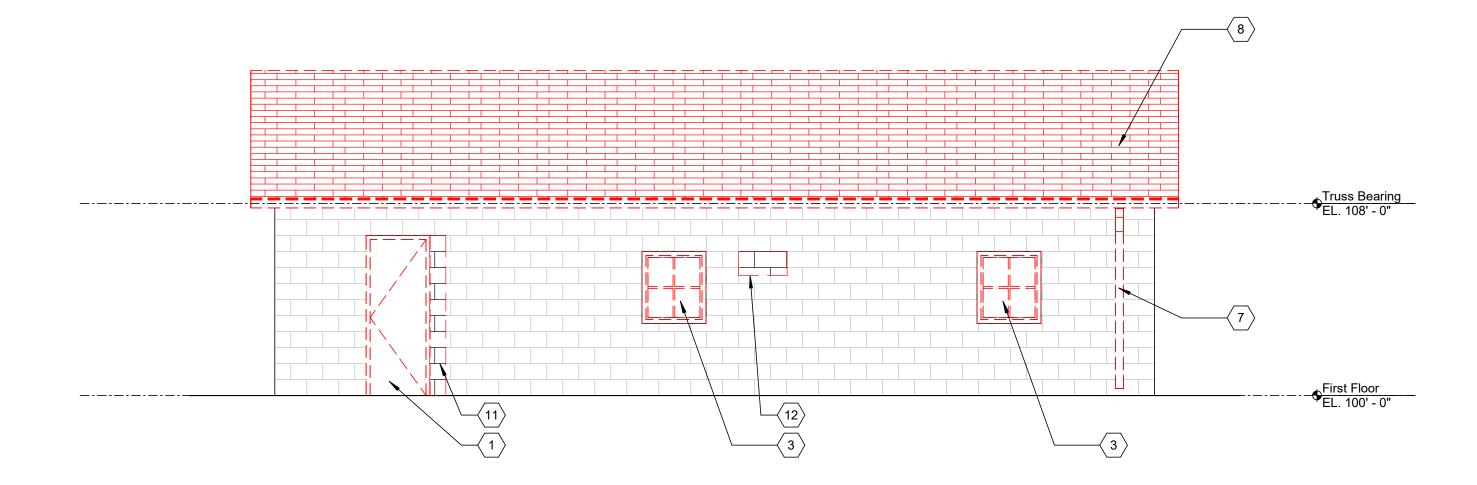
300 Marconi Boulevard T 614-628-0300 Columbus OH 43215 F 614-628-0311 schooleycaldwell.com

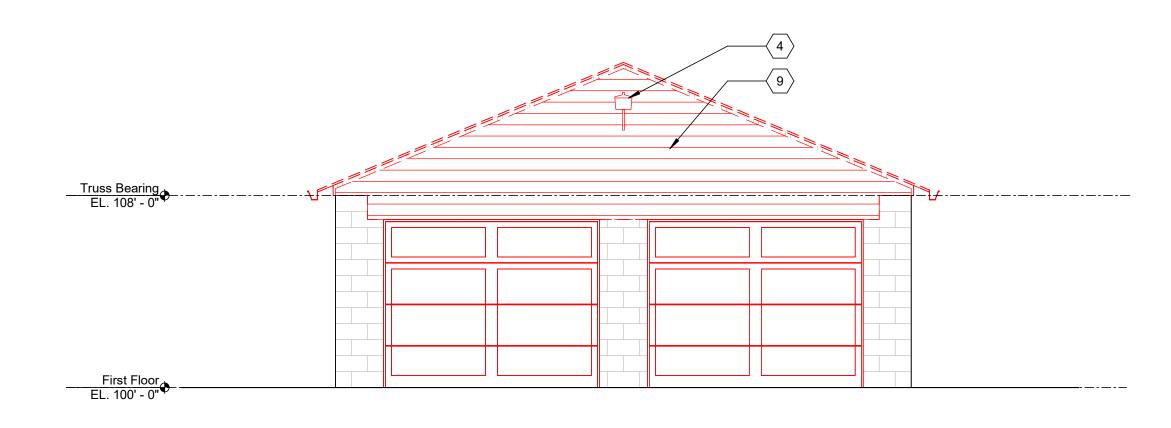


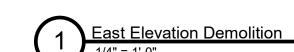


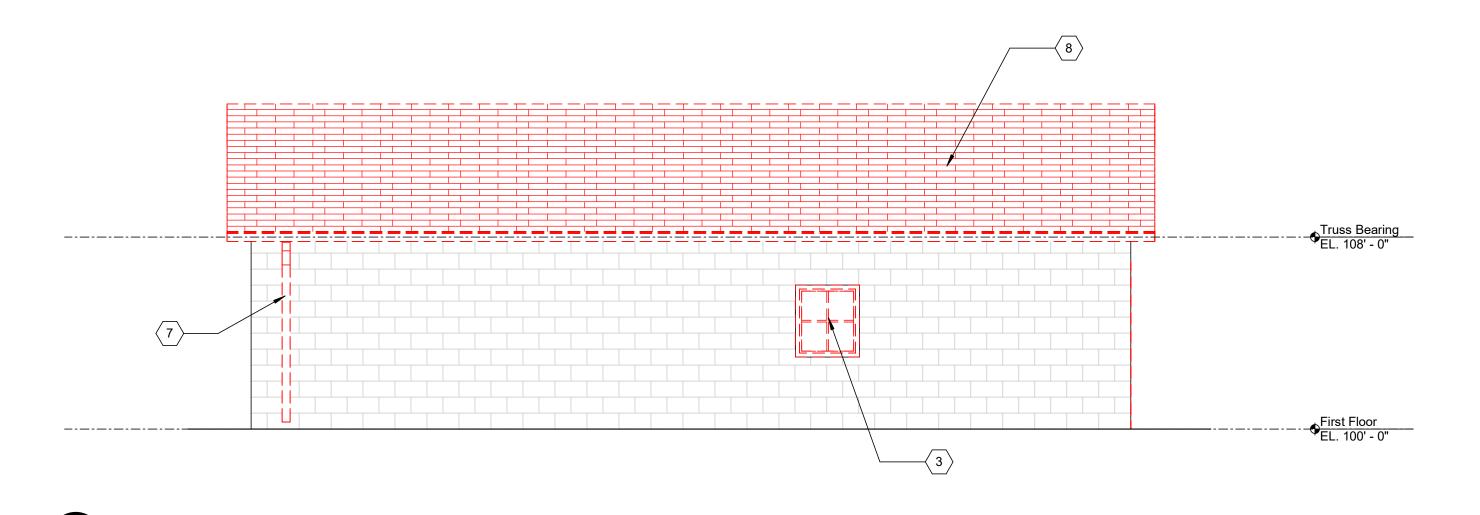
- C. Coodinate areas with enlarged plans and new work plans.
- D. Coordinate all demolition work with New Work plans. Review New Work drawings to verify and/or determine extent of demolition prior to performing demolition work.
- E. Refer to Mechanical, Plumbing, and Electrical plans for extent of equipment, fixtures, and ductwork to be removed. Remove abandoned or unused plumbing.
- F. For all removed finishes, furnishings, casework and building elements the demolition shall include all mounting materials, adhesives, hardware, fasteners or other associated supporting elements of the construction.
- G. At interior walls where doors and windows have been removed, patch back the opening to match the thickness and construciton of the adjacent wall surfaces as required for the new work.
- H. At all removed interior walls, patch to match adjacent wall and ceiling.

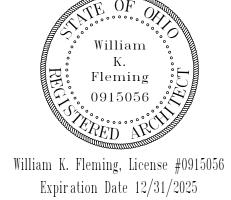
- DEMOLITION CODED NOTES
- 1. Remove panelling and wall furring.
- Remove exisiting door. Repair CMU header as required for new door and door frame. Provide new (2) L3 1/2x3 1/2x1/4 Lintel w/ 8" BRG
- 3. Remove existing window. Patch/grout CMU as required for new windows. At all window openings where there is no existing steel lintel, provide (2) L3 1/2x3 1/2x1/4 w/ 8" BRG each end.
- 4. Remove all existing electrical panels, lighting, wiring, and devices.
- Demo existing garage doors.
- 6. Remove existing plywood ceiling for future access.
- 7. Remove existing gutters and downspouts.
- 8. Remove existing shingles and underlayment down to roof sheathing.
- 9. Remove existing vinyl siding and air/weather barrier down to sheathing.
- 10. Remove/salvage work bench for reinstallation during new work.
- 11. Widen existing opening for new door. Refer to new work plan.
- 12. New opening for new louver. Refer to mechanical drawings.











300 Marconi Boulevard T 614-628-0300 **Columbus OH 43215** F 614-628-0311 **schooleycaldwell.com**

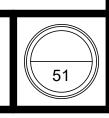


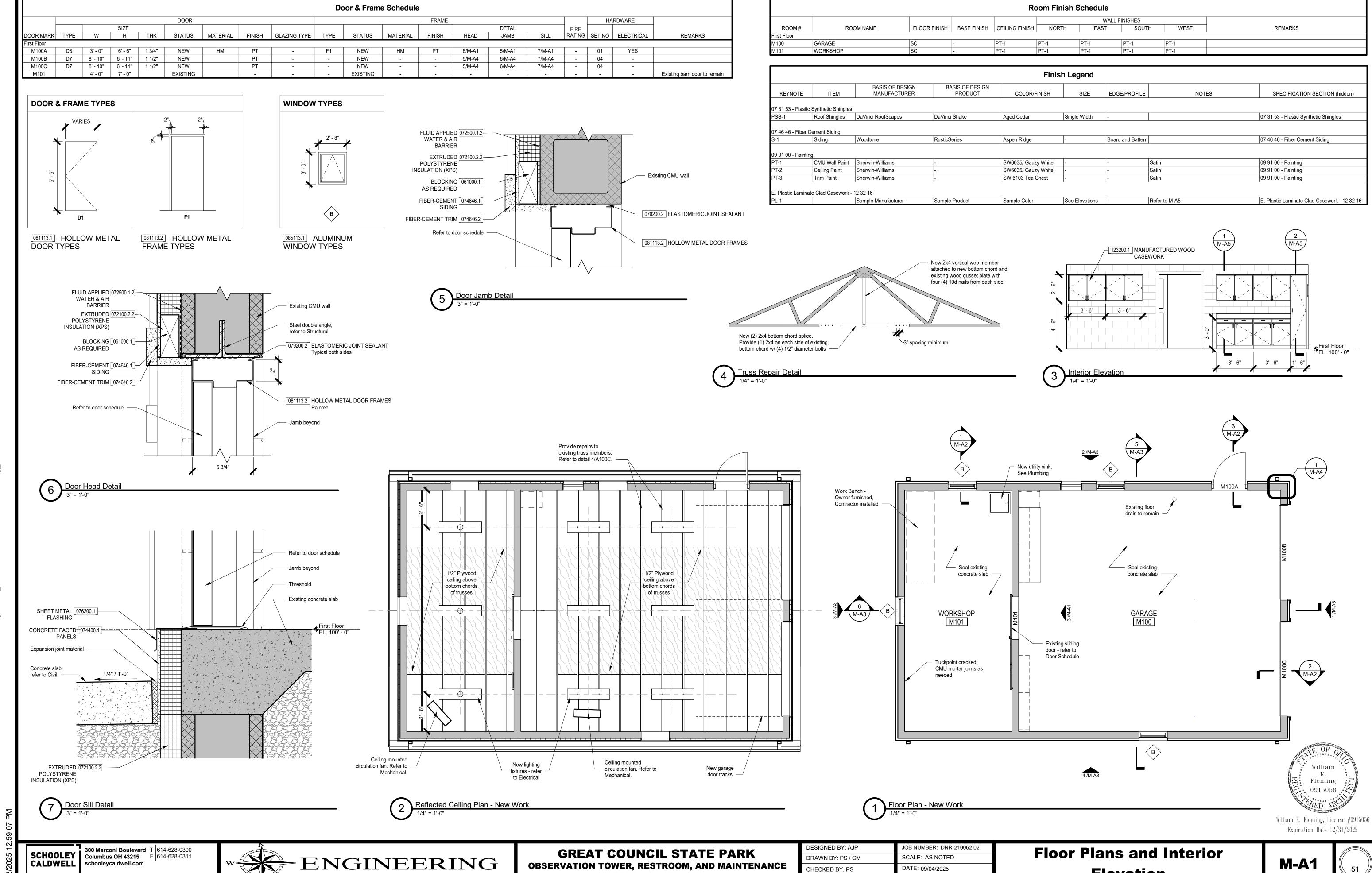
GREAT COUNCIL STATE PARK OBSERVATION TOWER, RESTROOM, AND MAINTENANCE **GREENE COUNTY, OHIO**

JOB NUMBER: DNR-210062.02 DRAWN BY: PS / CM SCALE: AS NOTED DATE: 09/04/2025 CHECKED BY: PS BID DOCUMENTS

Elevation Demolition

M-AD2





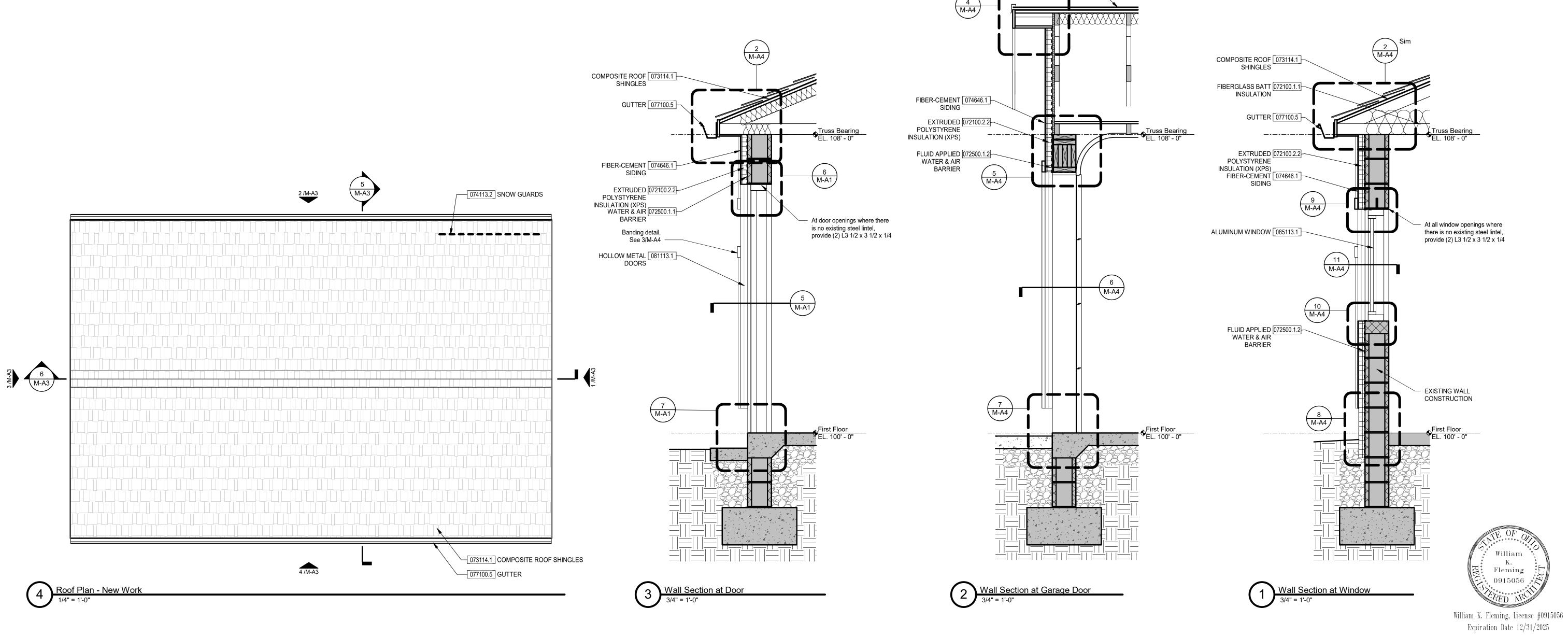
GREENE COUNTY, OHIO

Ohio Department of Natural Resources

Elevation

BID DOCUMENTS

Autodesk Docs://24410 - Great Council Observation Tower and Restroom Facility/24410_Great Council Mainte

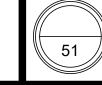


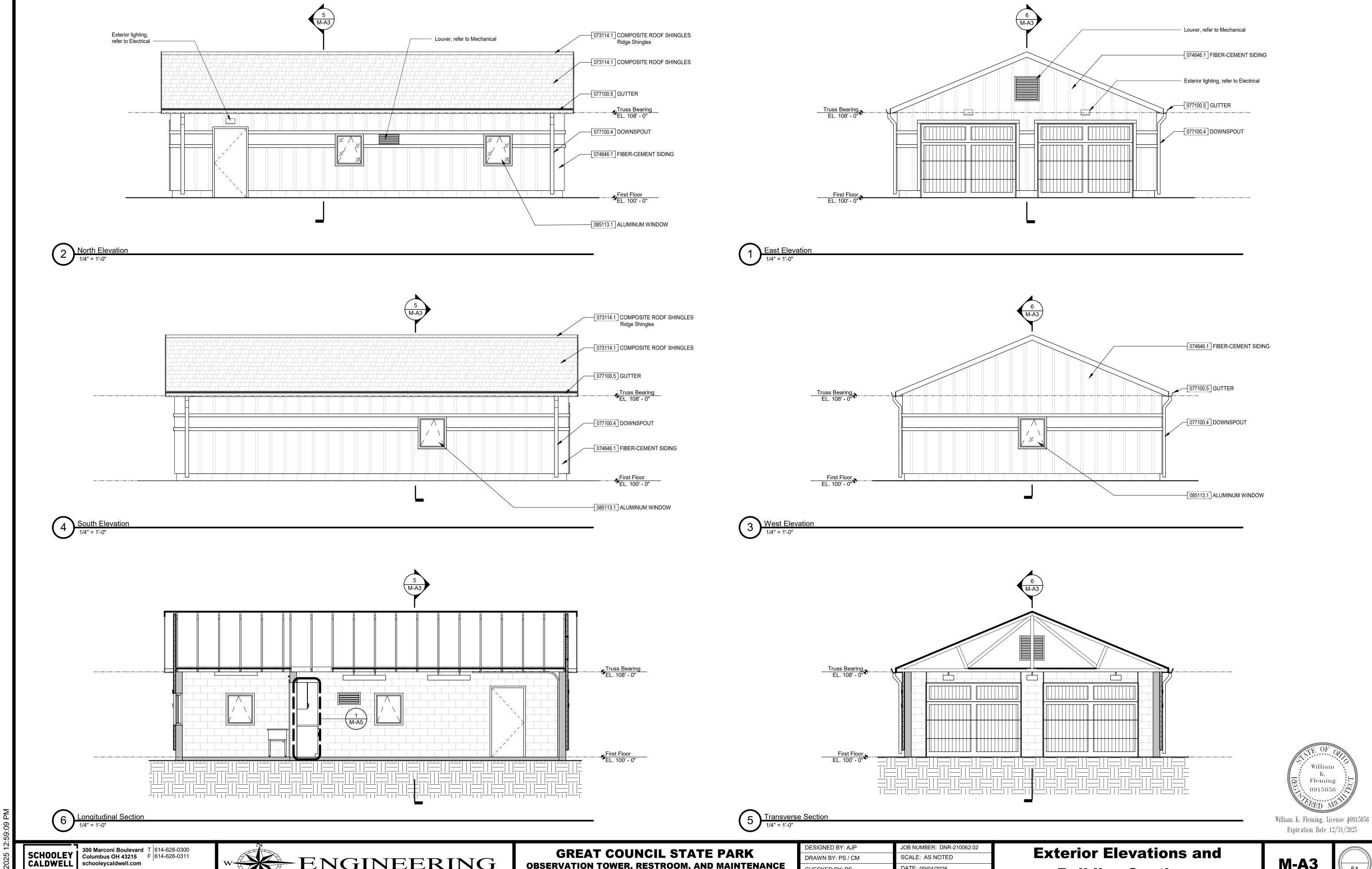
ENGINEERING Ohio Department of Natural Resources

GREAT COUNCIL STATE PARK OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO

JOB NUMBER: DNR-210062.02 DRAWN BY: PS / CM SCALE: AS NOTED DATE: 09/04/2025 CHECKED BY: PS BID DOCUMENTS

— 073114.1 COMPOSITE ROOF SHINGLES





GREAT COUNCIL STATE PARK

OBSERVATION TOWER, RESTROOM, AND MAINTENANCE

GREENE COUNTY, OHIO

ENGINEERING

Ohio Department of Natural Resources

DRAWN BY: PS / CM

CHECKED BY: PS

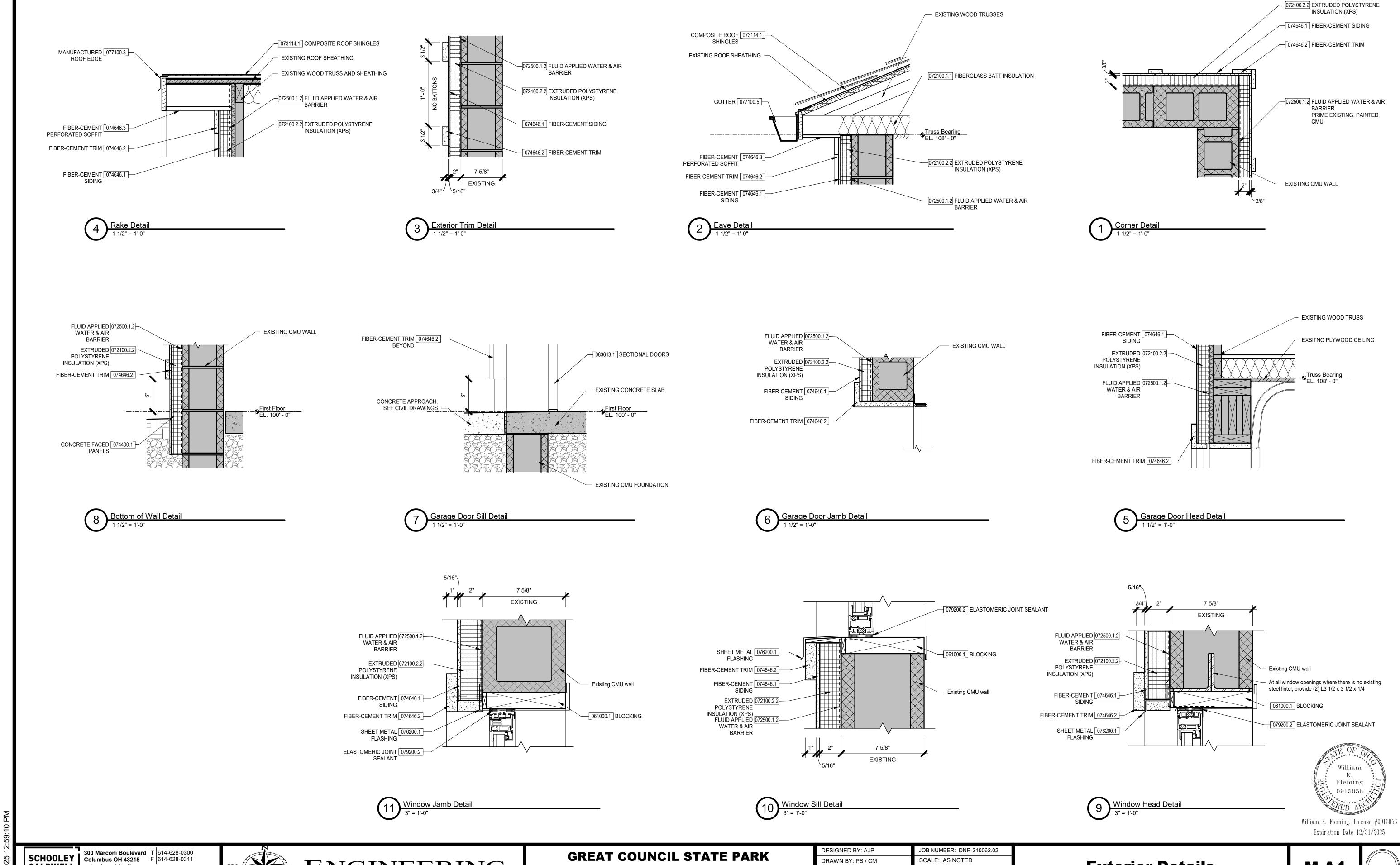
SCALE: AS NOTED

DATE: 09/04/2025

BID DOCUMENTS

M-A3

Building Sections



OBSERVATION TOWER, RESTROOM, AND MAINTENANCE

GREENE COUNTY, OHIO

ENGINEERING

Ohio Department of Natural Resources

DRAWN BY: PS / CM

CHECKED BY: PS

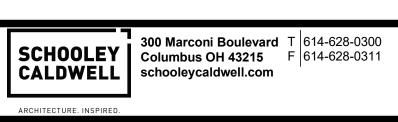
SCALE: AS NOTED

DATE: 09/04/2025

BID DOCUMENTS

Exterior Details

schooleycaldwell.com



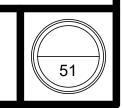


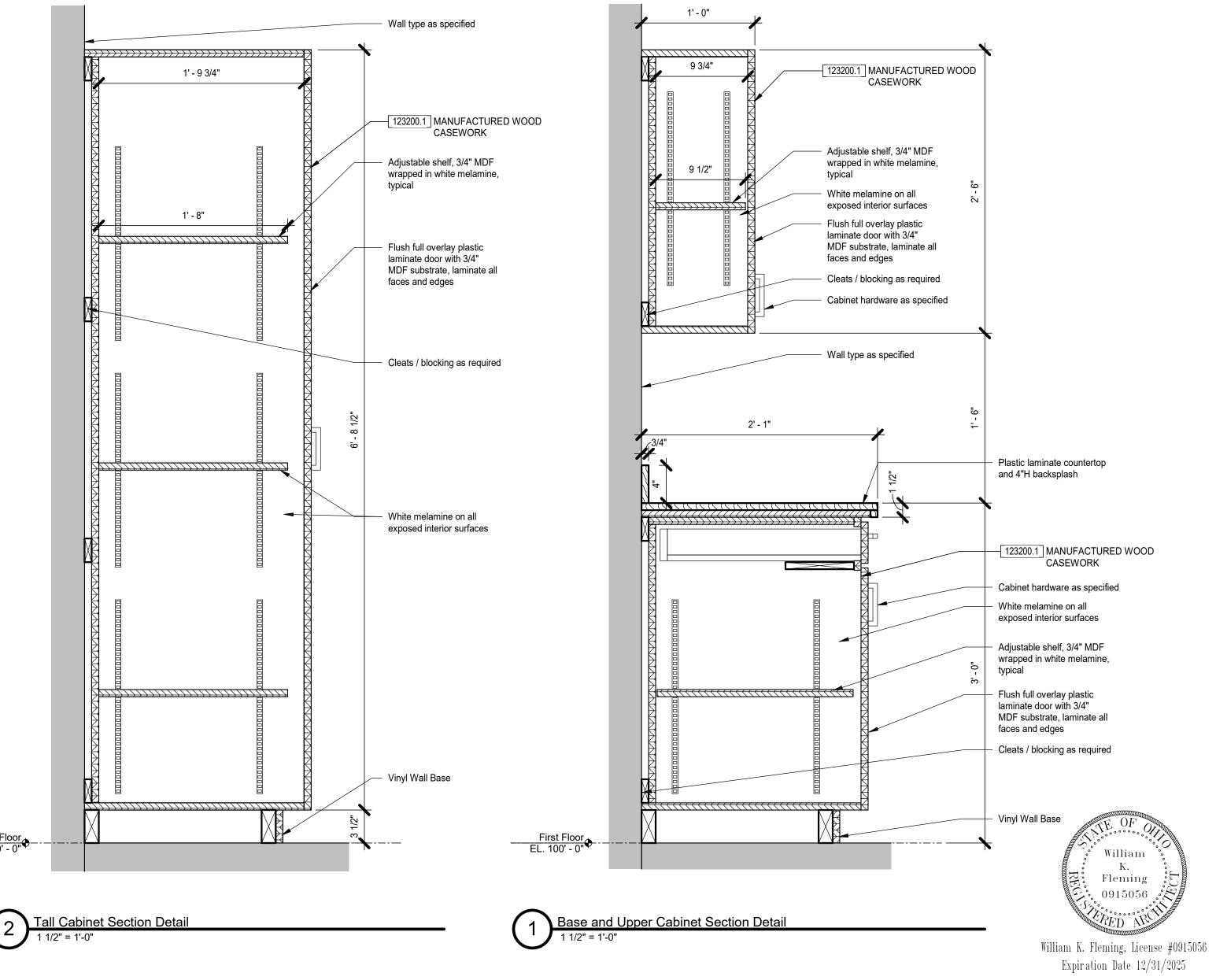


JOB NUMBER: DNR-210062.02 DESIGNED BY: AJP DRAWN BY: PS / CM SCALE: AS NOTED DATE: 09/04/2025 CHECKED BY: PS BID DOCUMENTS APPROVED BY:

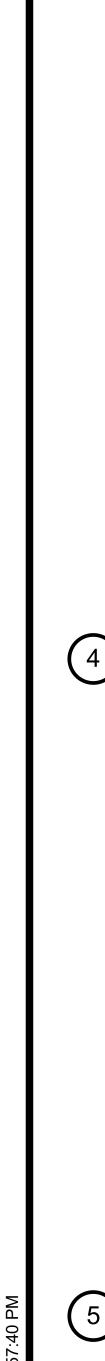
Interior Details

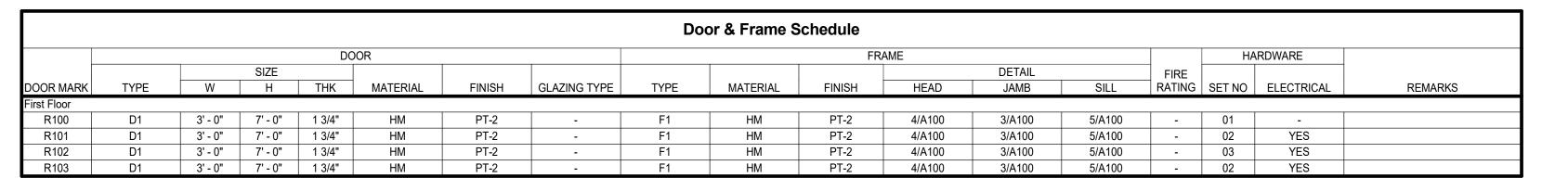
M-A5



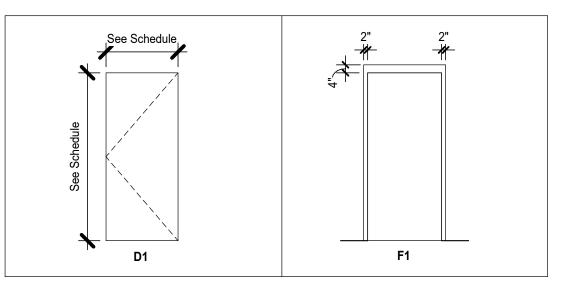


GREAT COUNCIL STATE PARK

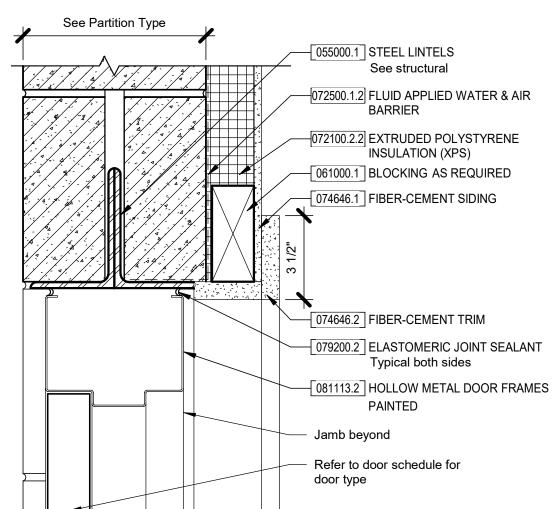


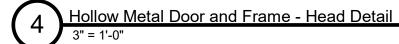


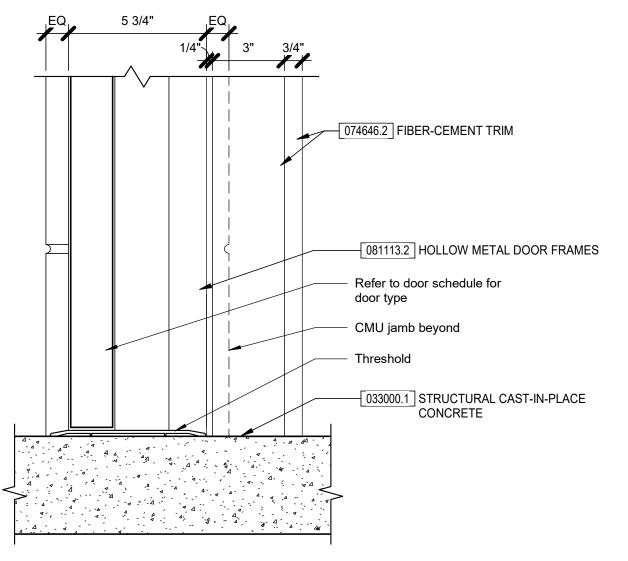
				R	oom Finish	Schedule			
						WALL	FINISHES		
ROOM#	ROOM NAME	FLOOR FINISH	BASE FINISH	CEILING FINISH	NORTH	EAST	SOUTH	WEST	REMARKS
First Floor			•			<u>'</u>	<u> </u>		
R100	PLUMBING CHASE	SC	-	PVC-1	-	-	-	-	
R101	MEN'S RR	RES-1	-	PVC-1	PT-1	PT-1	PT-1	PT-1	
R102	FAMILY RR	RES-1	-	PVC-1	PT-1	PT-1	PT-1	PT-1	
R103	WOMEN'S RR	RES-1	-	PVC-1	PT-1	PT-1	PT-1	PT-1	

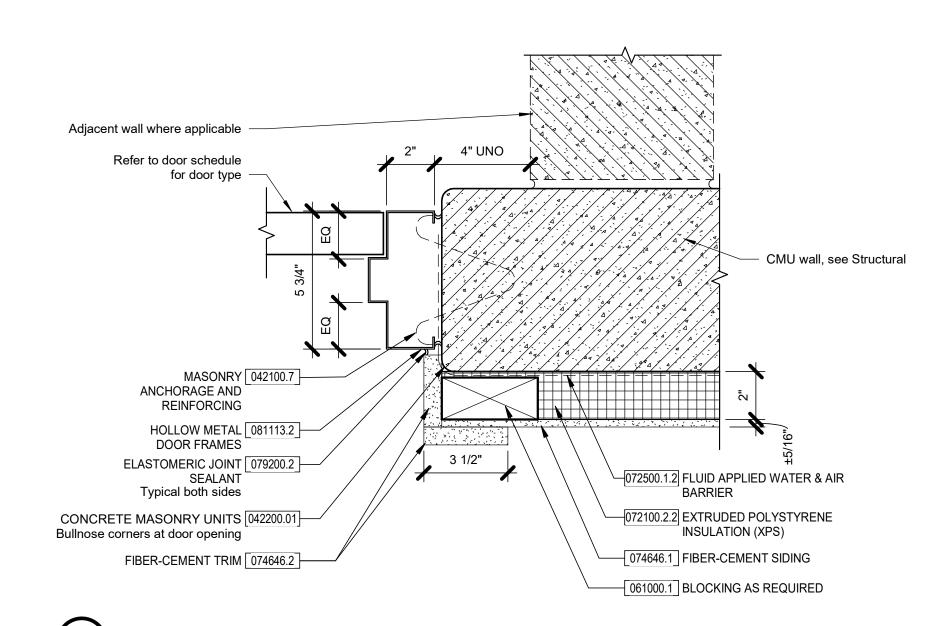


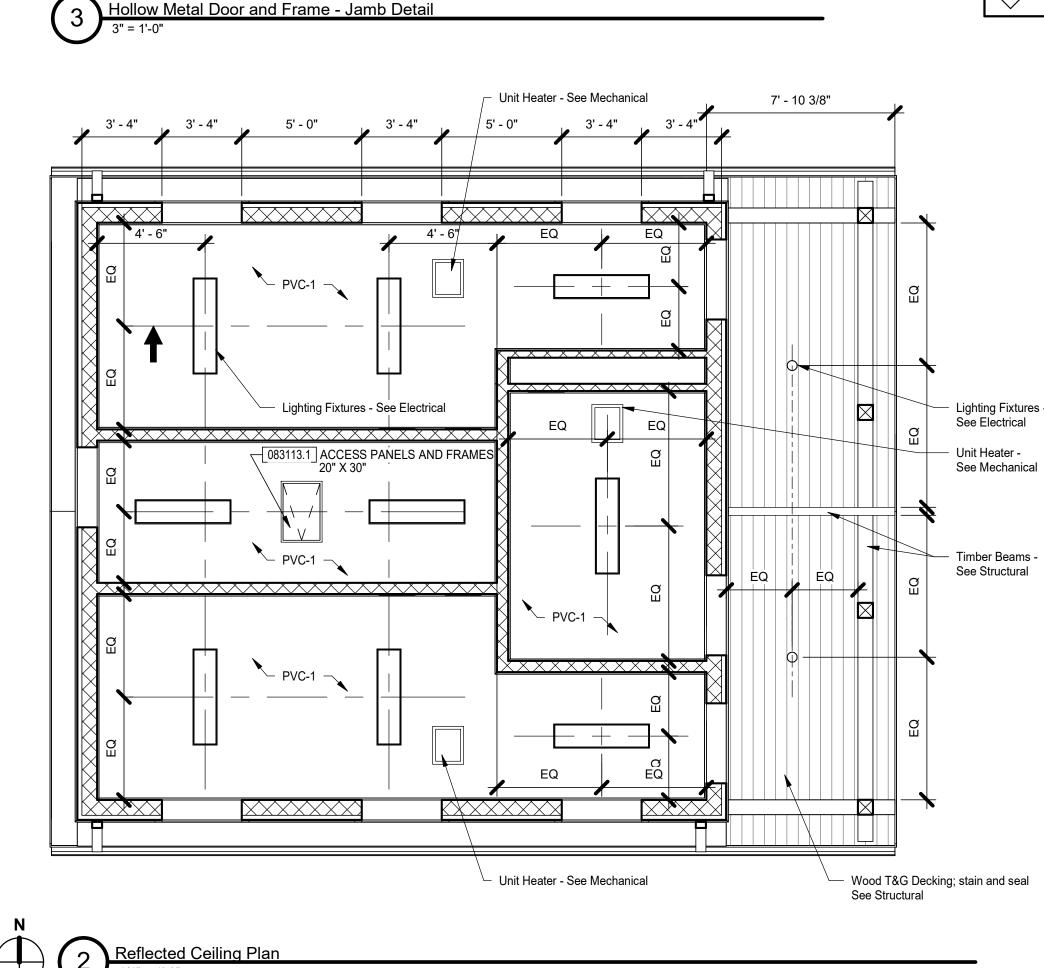




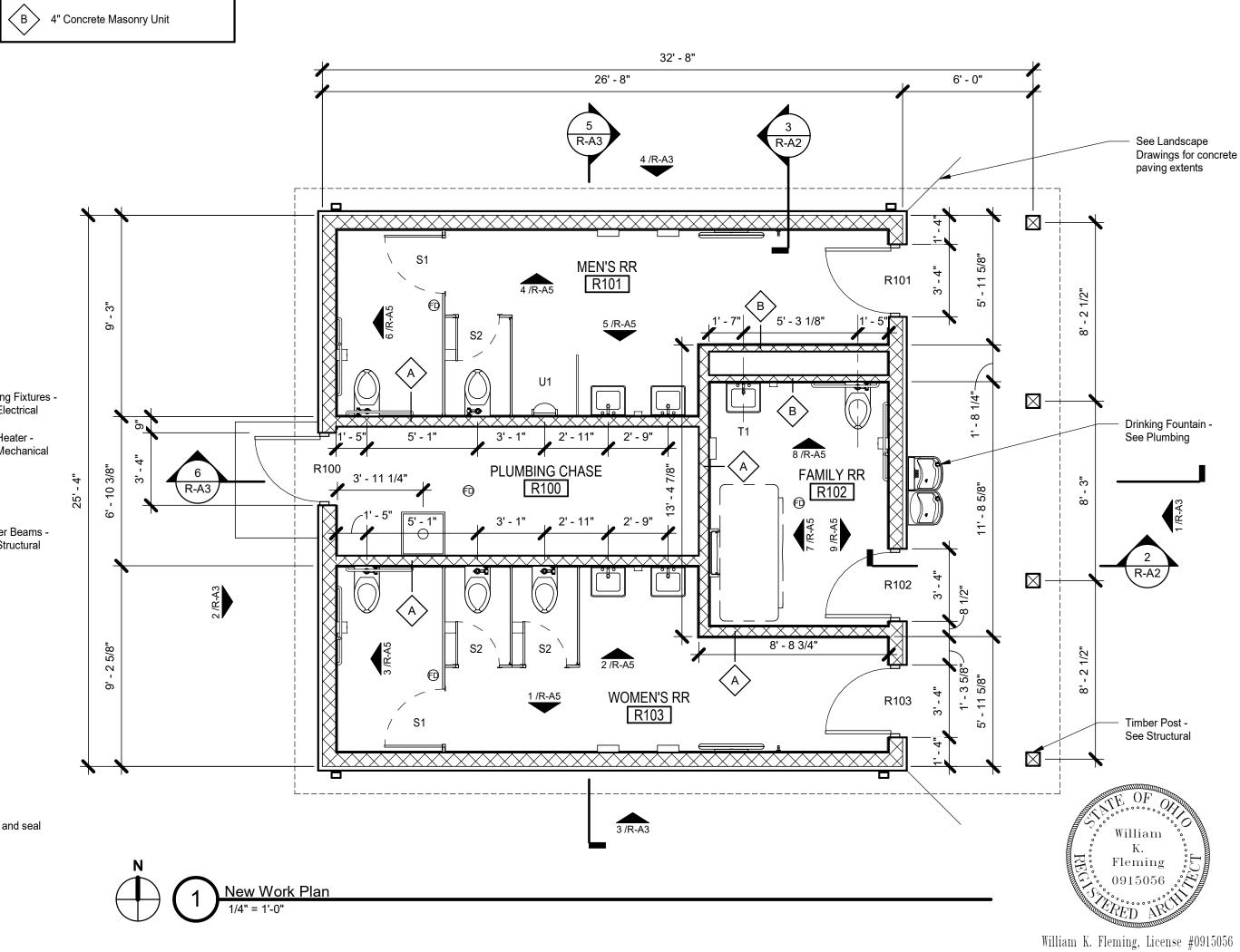




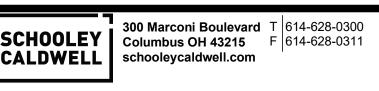




Finish Legend								
KEYNOTE	ITEM	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN PRODUCT	COLOR/FINISH	SIZE	EDGE/PROFILE NOTES	SPECIFICATION SECTION (hidden)	
06 83 16 - Fibergla	ss Reinforced Wall Pa	anel						
PVC-1	PVC Ceiling Panel	Trusscore	Wall and Ceiling Board	White		-	06 83 16 - Fiberglass Reinforced Wall Panel	
07 31 53 - Plastic	Synthetic Shingles							
PSS-1	Roof Shingles	DaVinci Roofscapes	DaVinci Shake	Aged Cedar	Single Width		07 31 53 - Plastic Synthetic Shingles	
07 46 46 - Fiber C	<u> </u>							
S-1	Siding	Woodtone	RusticSeries	Aspen Ridge	-	Board and Batten	07 46 46 - Fiber Cement Siding	
00 07 00 B :	ıs Flooring							
09 67 00 - Resinoι			Resuflor	Americano	_	- Floor and 6" Base	09 67 00 - Resinous Flooring	
09 67 00 - Resinol RF-1	Flooring & Base	Sherwin-Williams	Resulior	/ tilleticatio		- I loof and o base	00 01 00 - Nesillous Flooring	
	-	Sherwin-Williams	Resulior	Timonouno		- I loor and o base	00 07 00 - Resilious Flooring	
RF-1	-	Sherwin-Williams Sherwin-Williams	-	SW 6035 Gauzy White	-	- Satin	09 91 00 - Painting	
RF-1 09 91 00 - Painting					-			
RF-1 09 91 00 - Painting PT-1	CMU Wall Paint	Sherwin-Williams		SW 6035 Gauzy White	-	- Satin	09 91 00 - Painting	
RF-1 09 91 00 - Paintinç PT-1 PT-2	CMU Wall Paint Ceiling Paint Trim Paint	Sherwin-Williams Sherwin-Williams		SW 6035 Gauzy White SW 6035 Gauzy White	-	- Satin - Satin	09 91 00 - Painting 09 91 00 - Painting	



Floor Plan



Hollow Metal Door and Frame - Sill Detail





Non-Bearing Partition Legend

A 6" Concrete Masonry Unit

Expiration Date 12/31/2025

GREENE COUNTY, OHIO

BID DOCUMENTS

Ohio Department of Natural Resources

Ohio Department of Natural Resources

DATE: 09/04/2025

BID DOCUMENTS

Building Sections

CHECKED BY: PS

ASI 0852

Excel Dryer Inc -

ThinAir Hand Dryer

ASI 8215-3

ASI 3700 series

	Keynote Legend
102113.1	
102813.01	PAPER TOWEL DISPENSER
102813.02	WASTE RECEPTACLE
102813.03	FRAMED MIRROR
102813.04	SOAP DISPENSER
102813.05	TOILET TISSUE DISPENSER
102813.06	CHANGING TABLE
102813.07.2	18" GRAB BAR
102813.07.4	36" GRAB BAR
102813.07.5	42" GRAB BAR
102813.07.6	18" VERTICAL GRAB BAR
102813.07.7	16" X 31" L-SHAPED GRAB BAR
102813.07.8	42" X 54" L-SHAPED GRAB BAR
102813.08	ADULT CHANGING TABLE
102813.11	SHOWER DOOR
102813.15	SANITARY NAPKIN DISPOSAL
102813.17	MOP AND BROOM HOLDER
102813.18	GARMENT HOOK
102813.20	UNDERLAVATORY GUARDS
102813.21	WARM-AIR DRYER

Signage Schedule

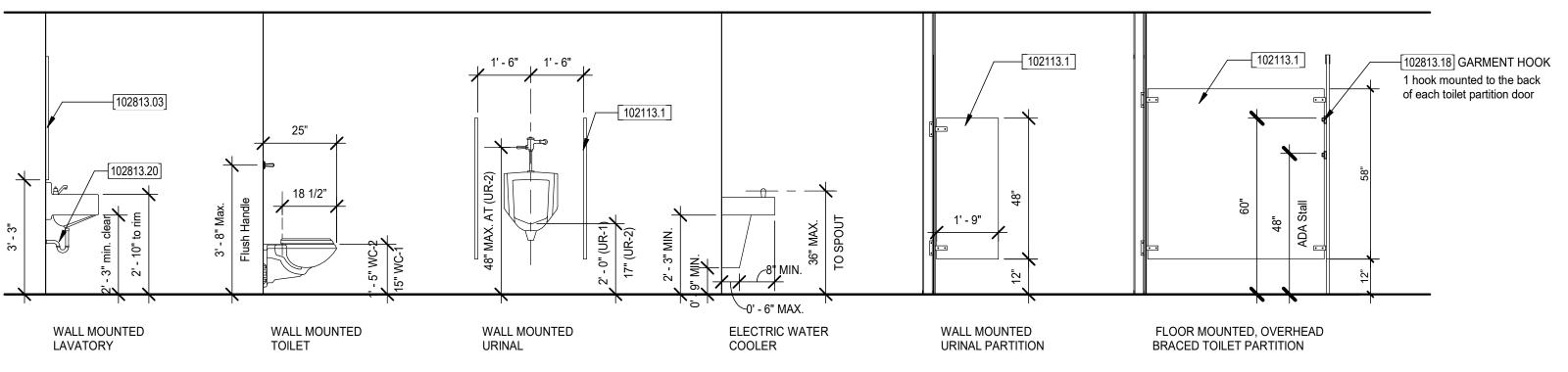
R102 B FAMILY RESTROOM

ADULT CHANGING TABLE

Sign # Type | Sign Text R101 A MEN

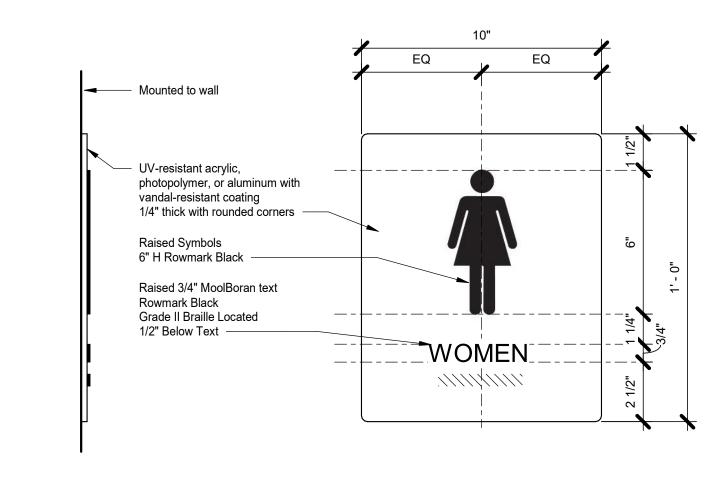
FIXTURE AND PARTITION MOUNTING DIAGRAM

ASI 0625



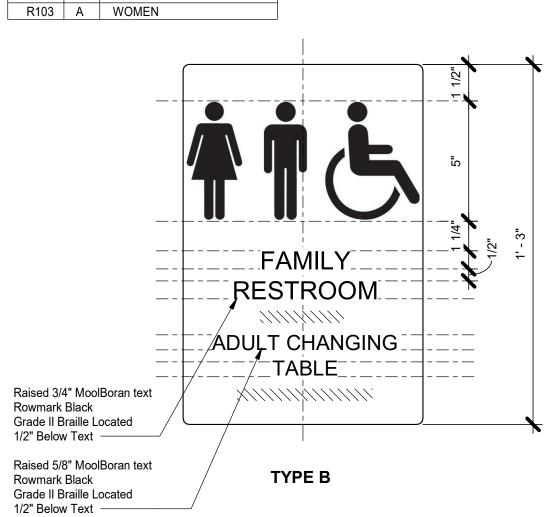
ASI 3700 series

ASI 9012 Koala KB200-00

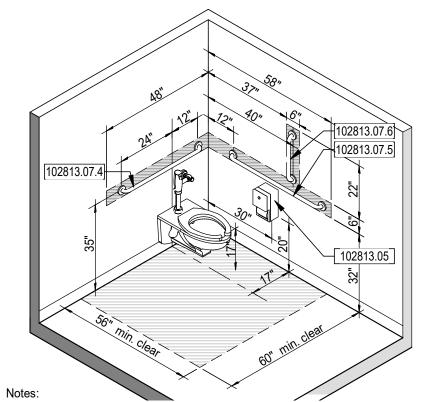


TYPE A

ASI 7340-S

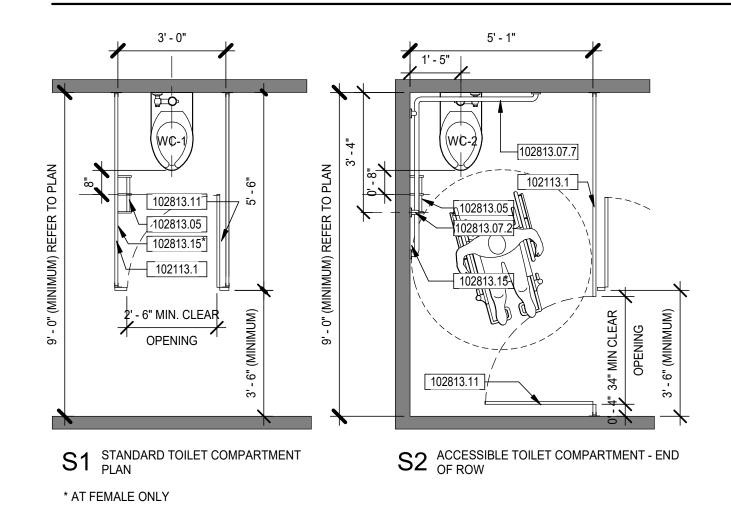


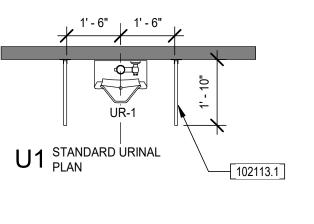
ACCESSIBLE TOILET STALLS & ROOMS

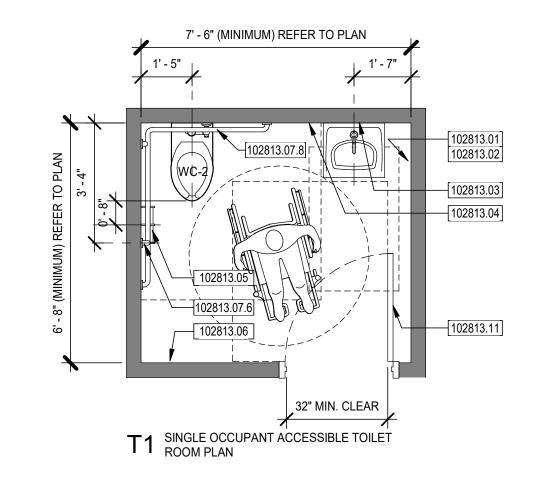


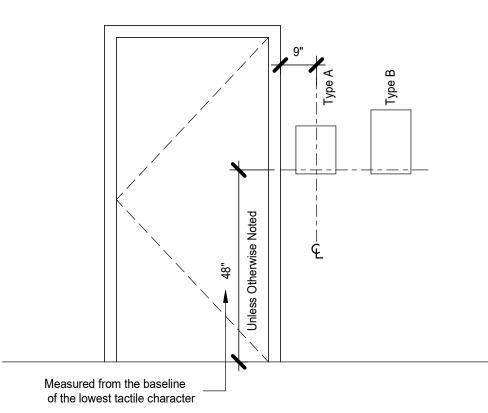
- The clear floor area is permitted to overlap the water closet, associated grab bars, paper dispensers, sanitary napkin receptacles, coat hooks, shelves, clear floor space at other fixtures and the turning space.
- No other fixture shall be within the required water closet clearance. • Flush controls shall be located on the open side of the water closet.
- Hatched zone at walls indicates minimum extent of continuous in-wall
- Combination L-shaped grab bars (Item 1028G8) may be utilized in lieu of items

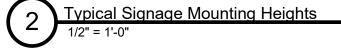
STANDARD TOILET STALLS AND ACCESSIBLE TOILET ROOMS







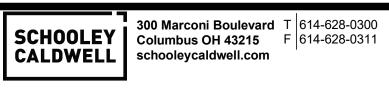






William

Fleming



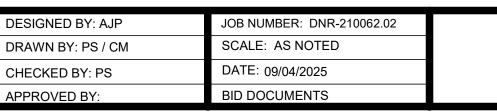






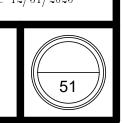


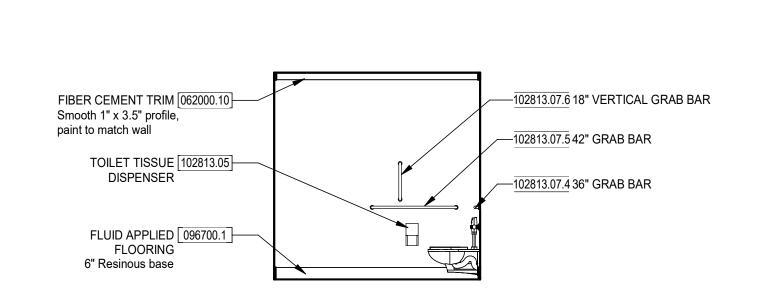




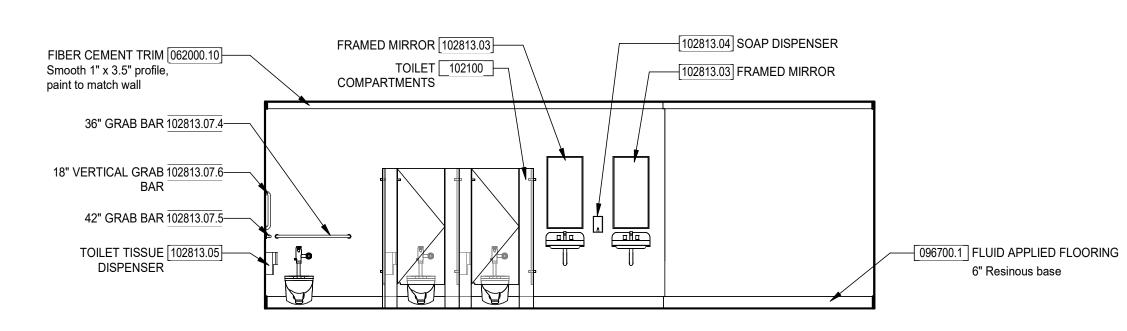




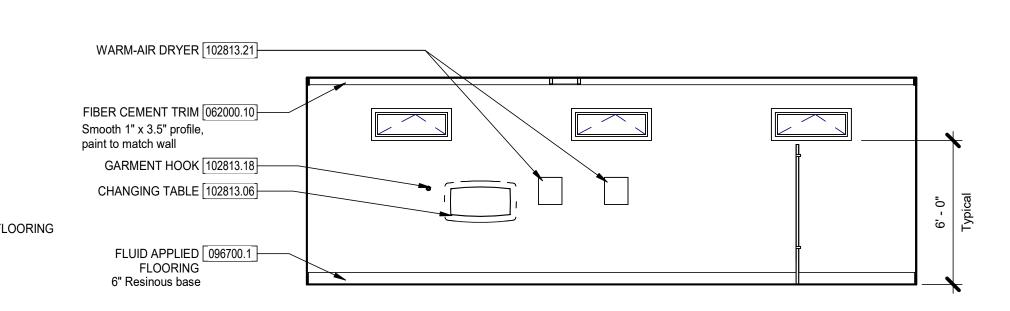


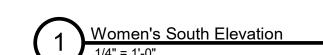


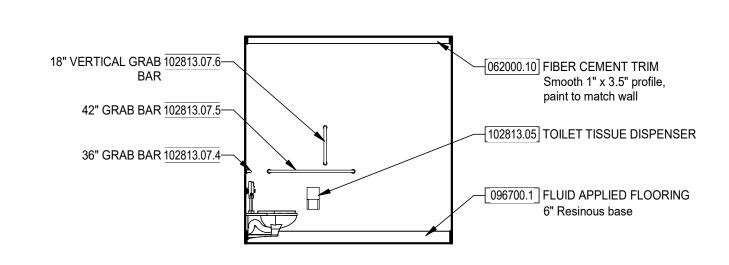


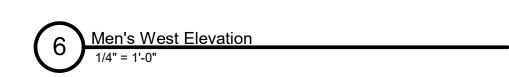


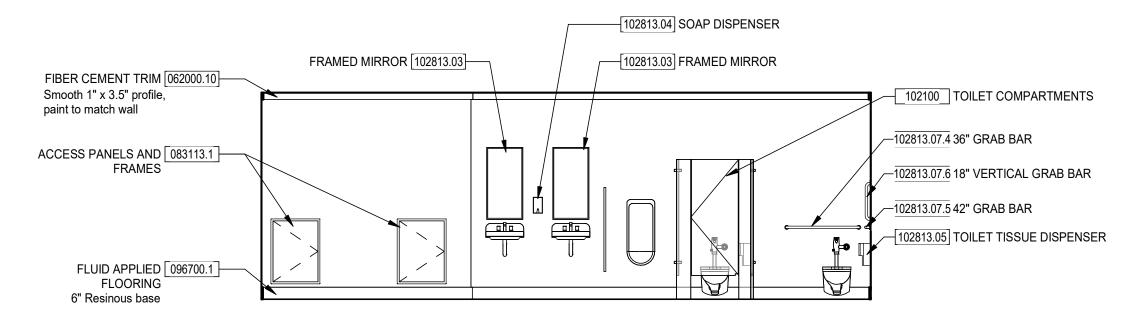


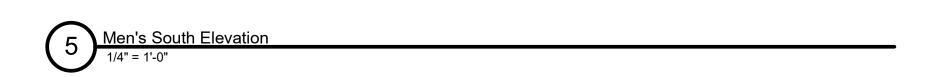


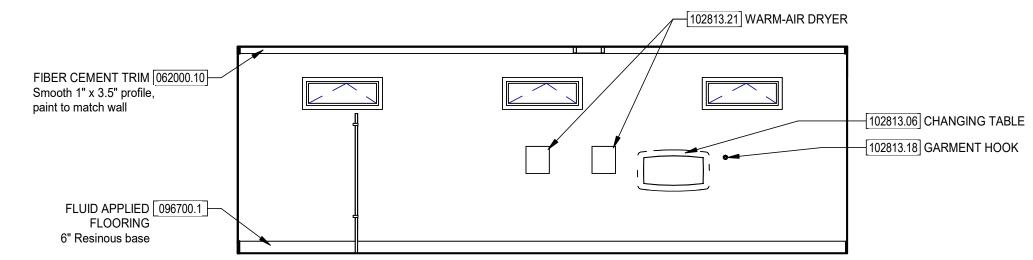


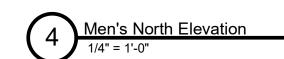


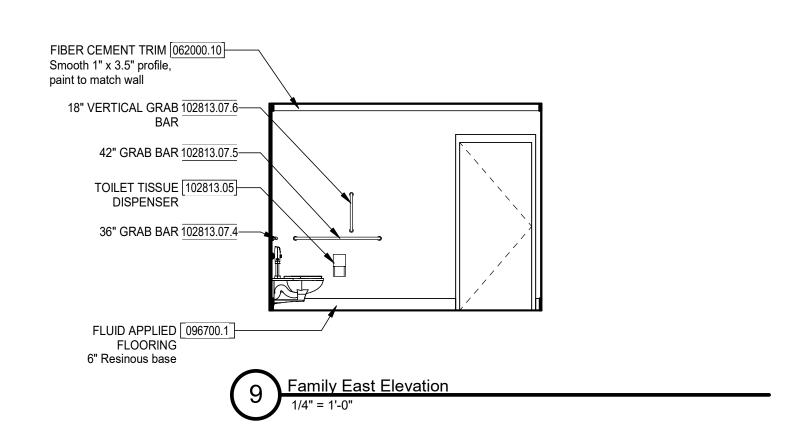


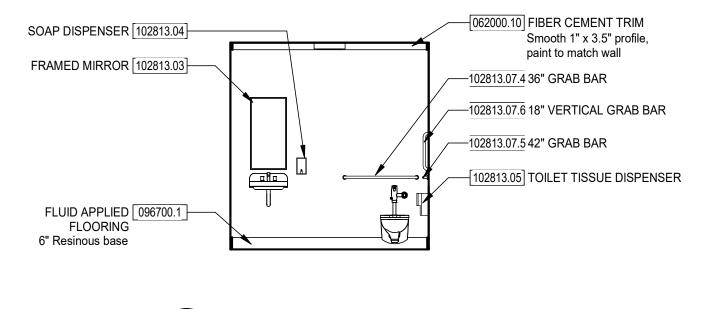




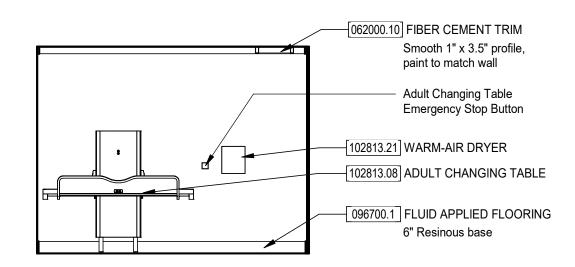








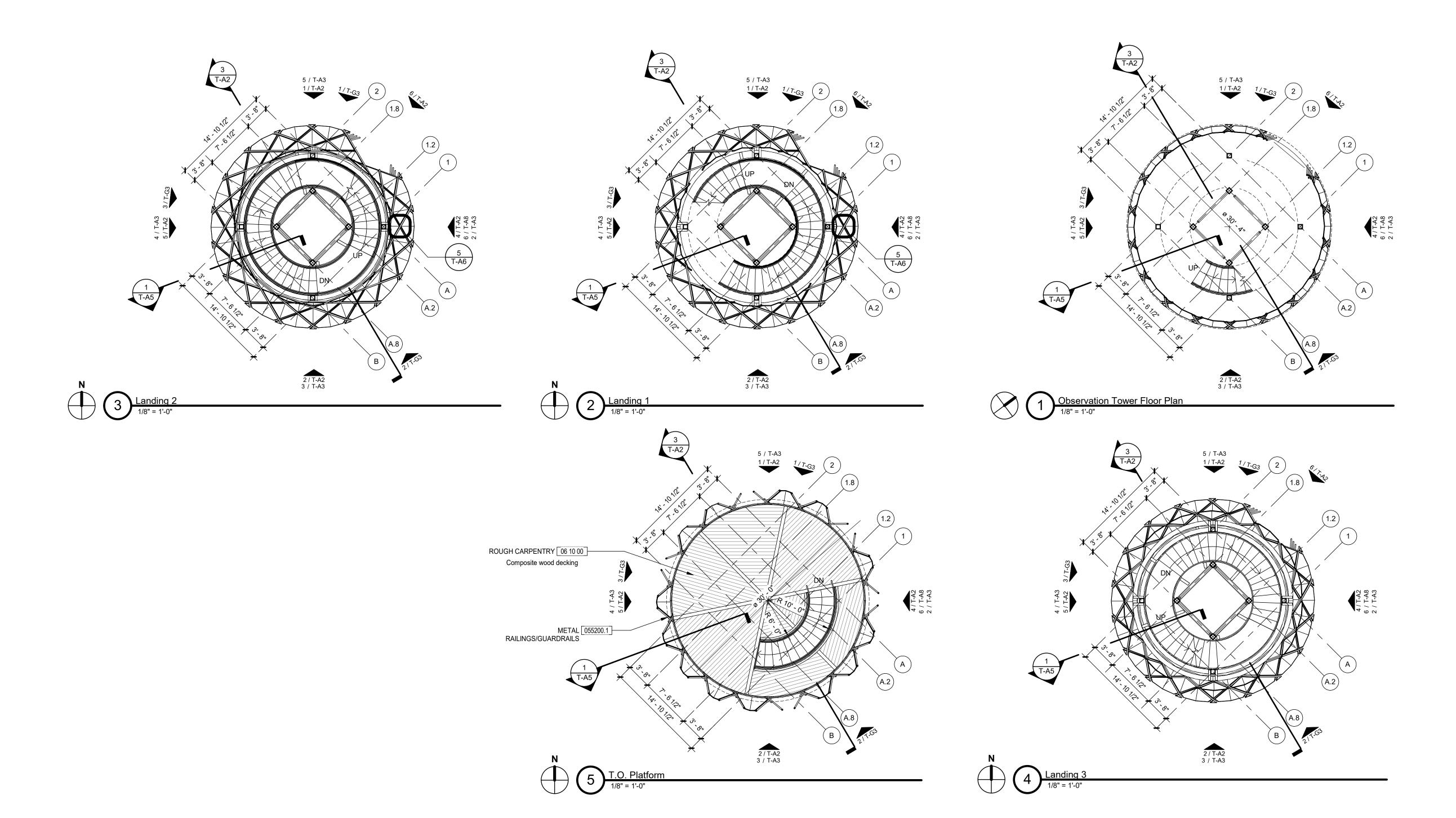


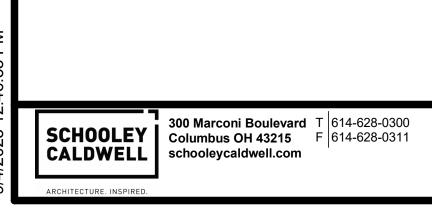






Finish Legend								
KEYNOTE	ITEM	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN PRODUCT	COLOR/FINISH	SIZE	EDGE/PROFILE	NOTES	
			11102001	COLOTVI INIGIT	OIZL	LUGL/FIXOFILL	NOTES	
a. Interior Archited	etural Woodwork -		Transcend	Jasper	OIZE	LDGL/FIXOFILE	06 73 00 - Composite Wood Decking	



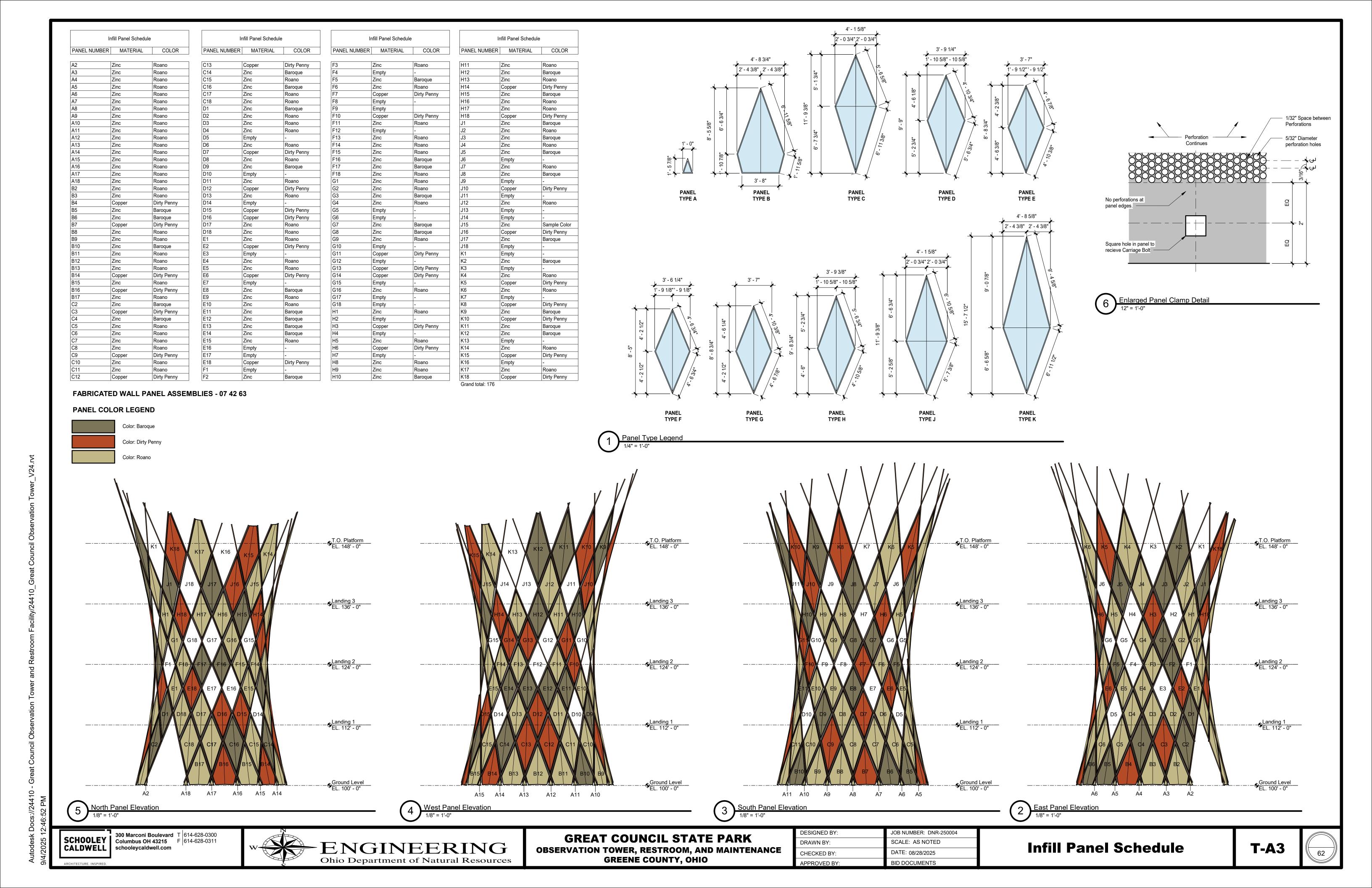


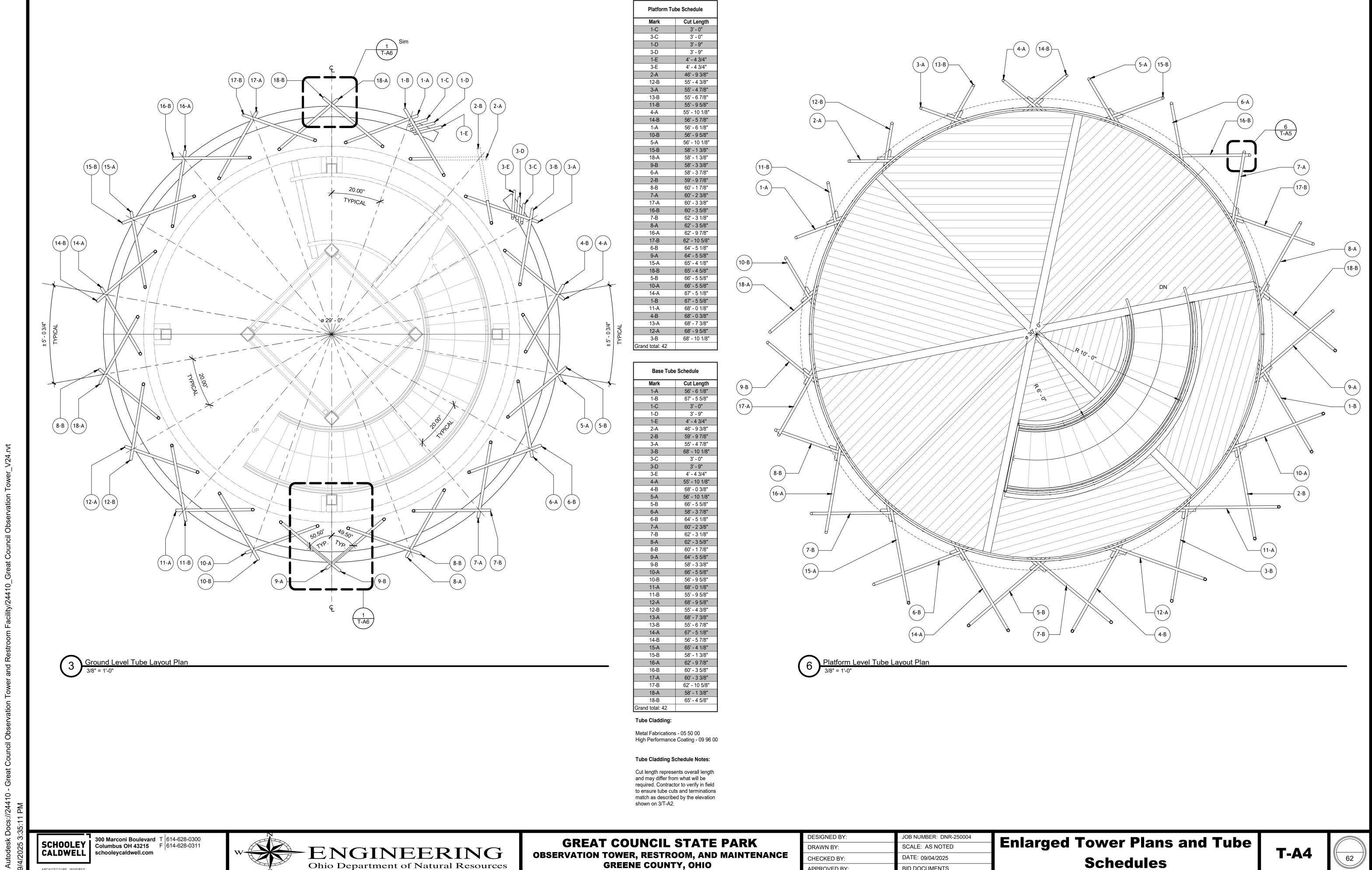






BID DOCUMENTS





GREENE COUNTY, OHIO

BID DOCUMENTS

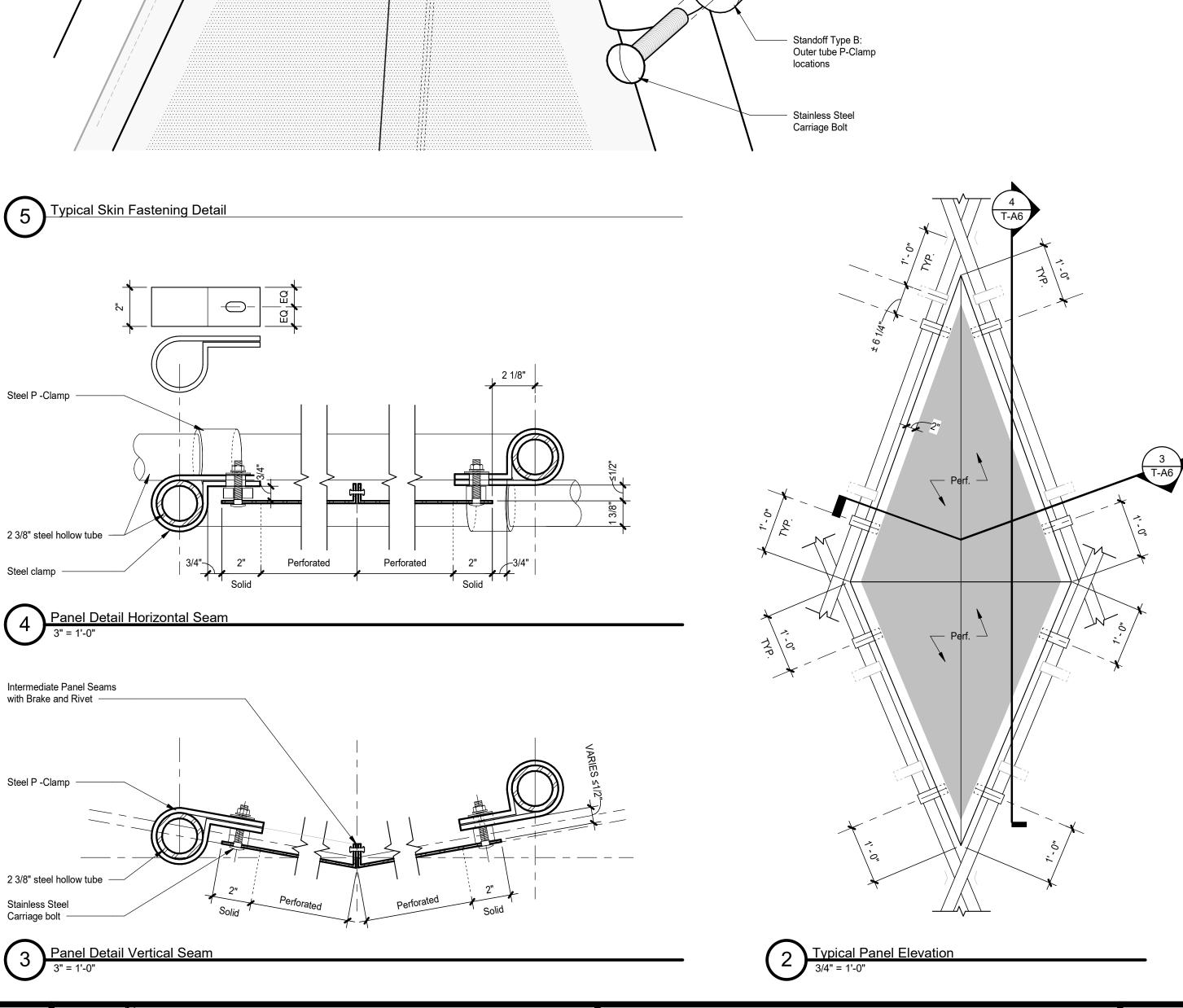
Ohio Department of Natural Resources

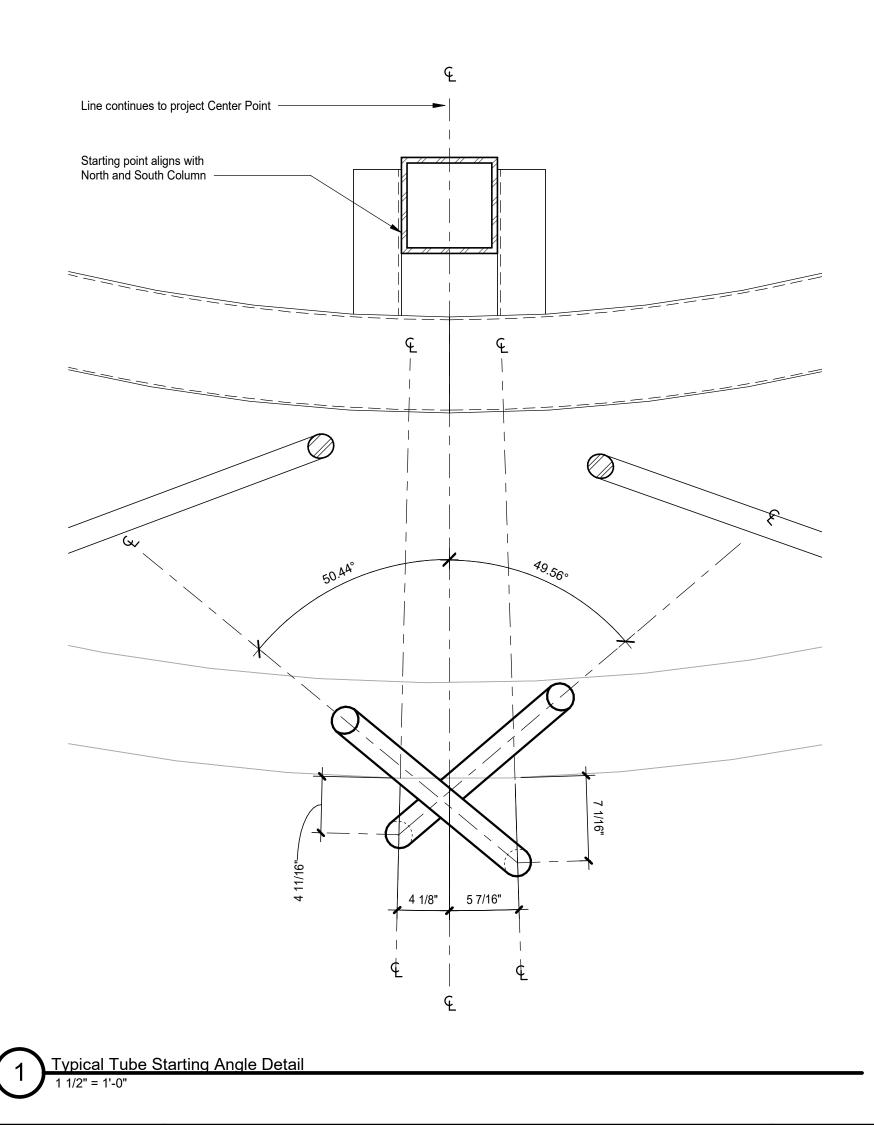


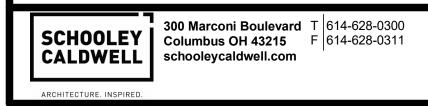


DESIGNED BY:	JOB NUMBER: DNR-250004
DRAWN BY:	SCALE: AS NOTED
CHECKED BY:	DATE: 09/04/2025
APPROVED BY:	BID DOCUMENTS









Steel P-Clamp Orientation A, for inner tube locations

Standoff Type A: Inner tube P-Clamp locations

Stainless Steel Carriage Bolt —

Perforated Panel -

ENGINEERING
Ohio Department of Natural Resources

GREAT COUNCIL STATE PARK
OBSERVATION TOWER, RESTROOM, AND MAINTENANCE
GREENE COUNTY, OHIO

Steel P-Clamp
 Orientation B, for outer tube locations

Stainless Nylok Nut or tamper-resistant nut where applicable

DESIGNED BY:

DRAWN BY:

SCALE: AS NOTED

CHECKED BY:

DATE: 08/28/2025

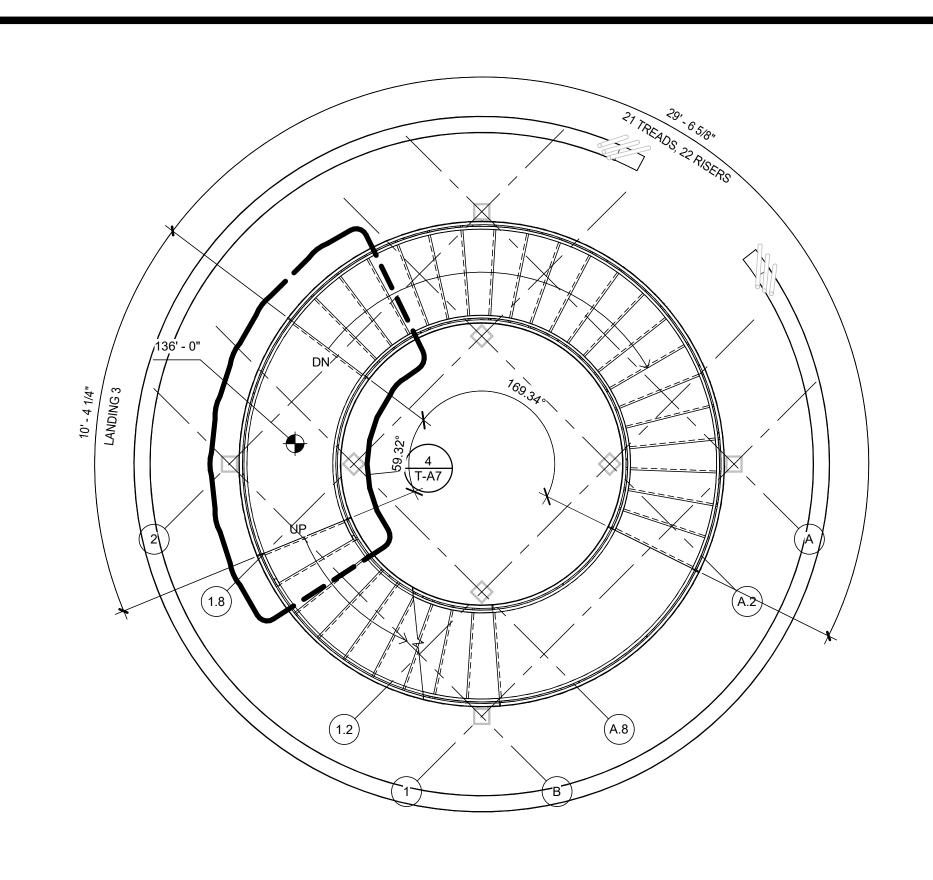
APPROVED BY:

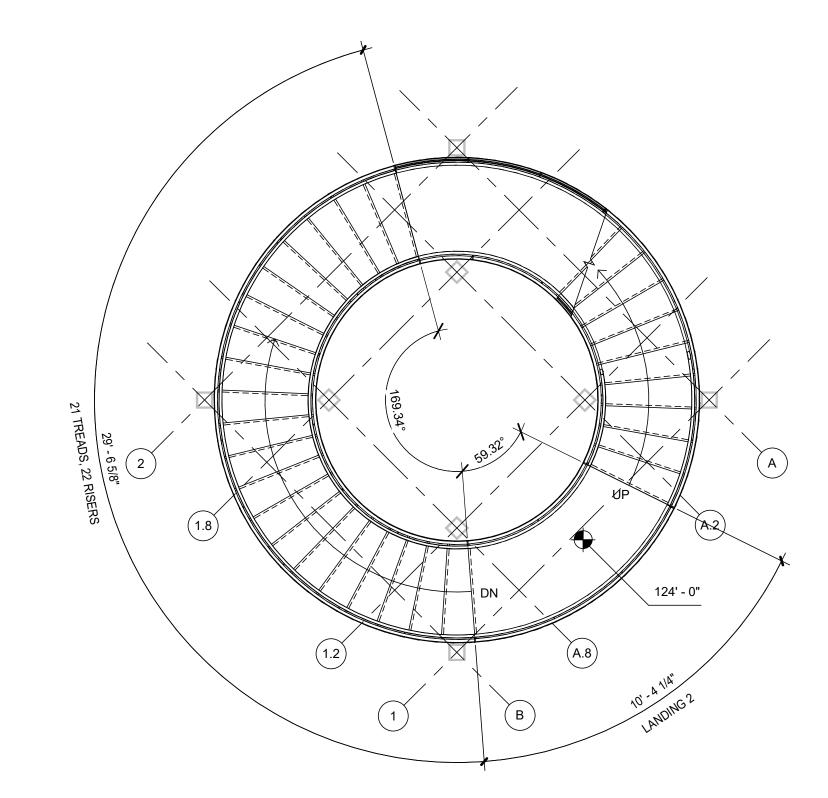
BID DOCUMENTS

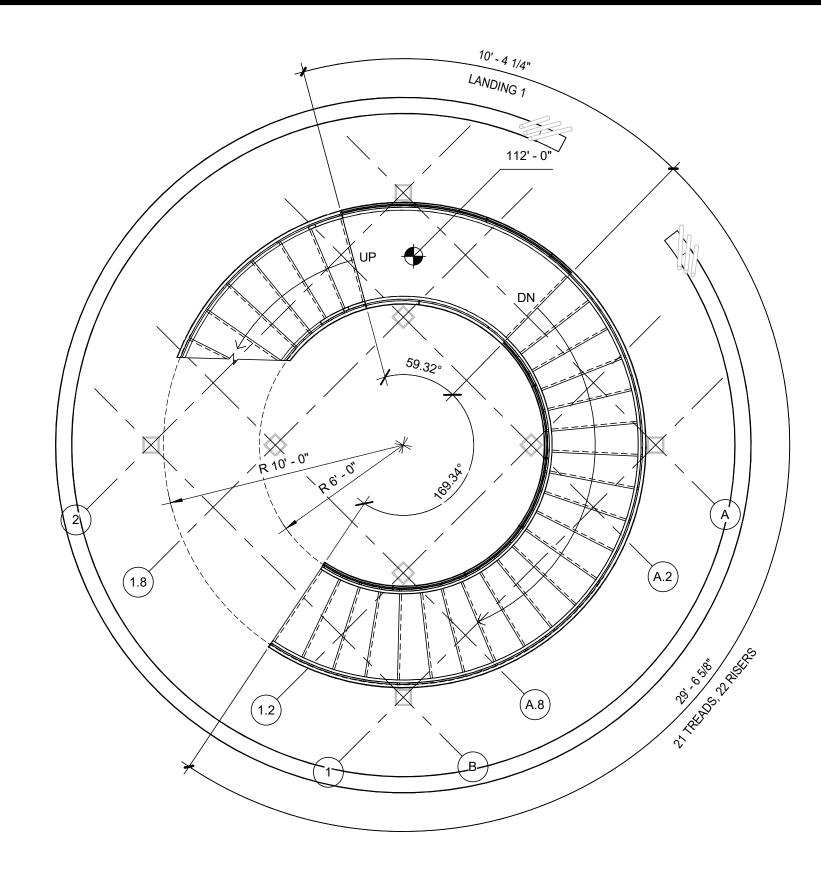
Exterior Details

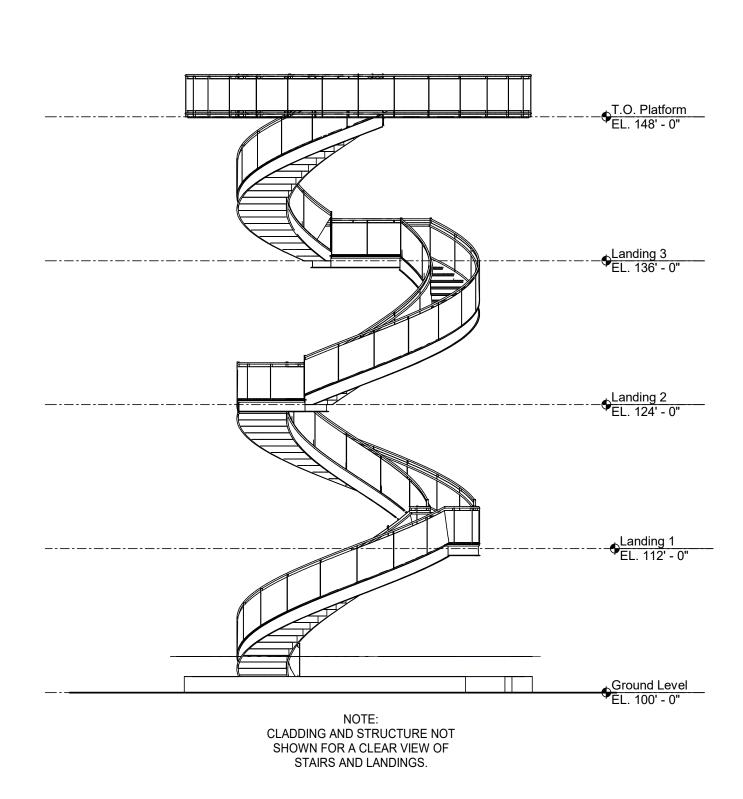
T-A6

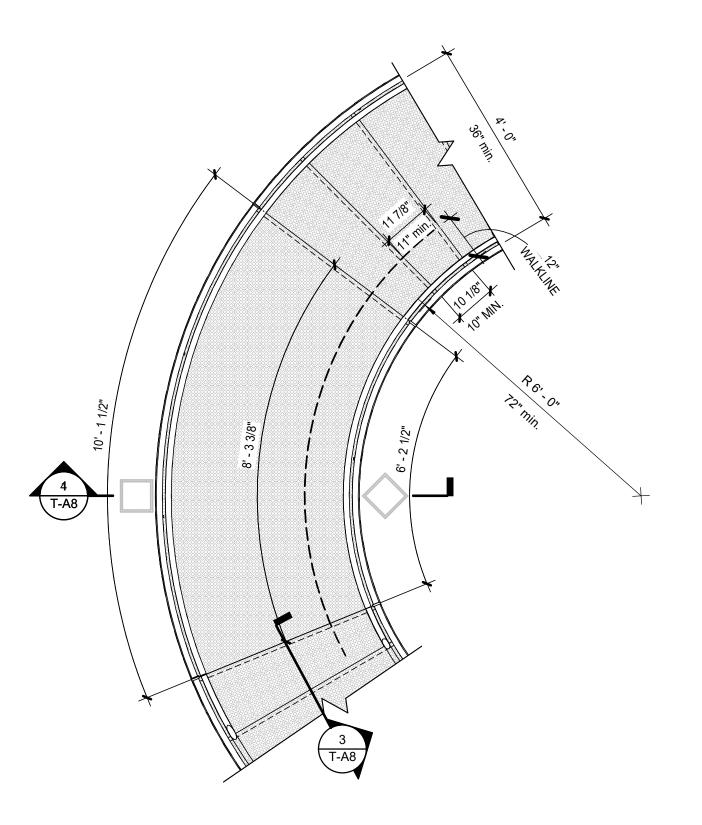


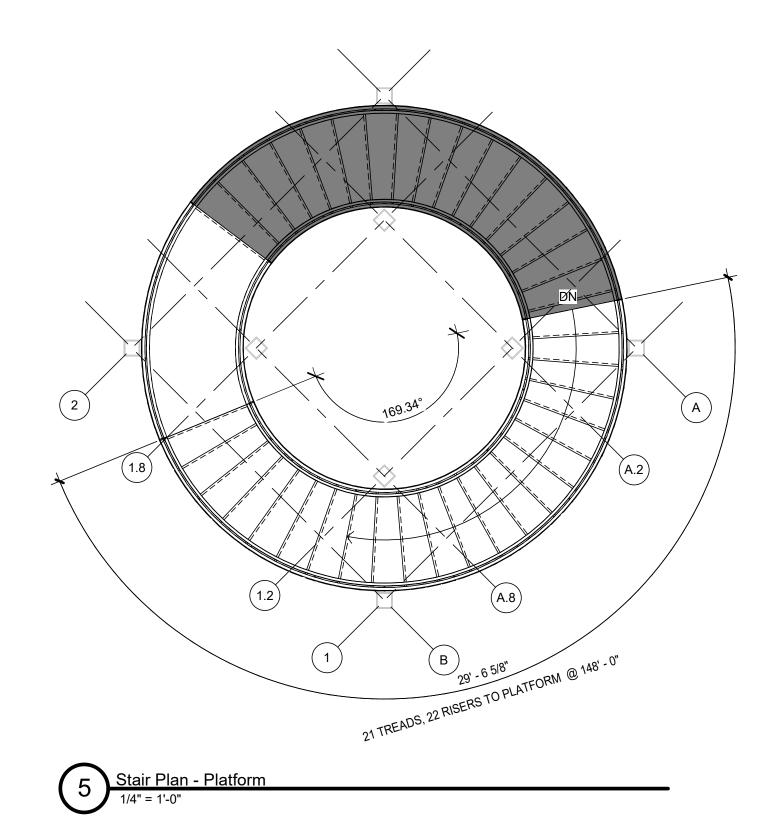














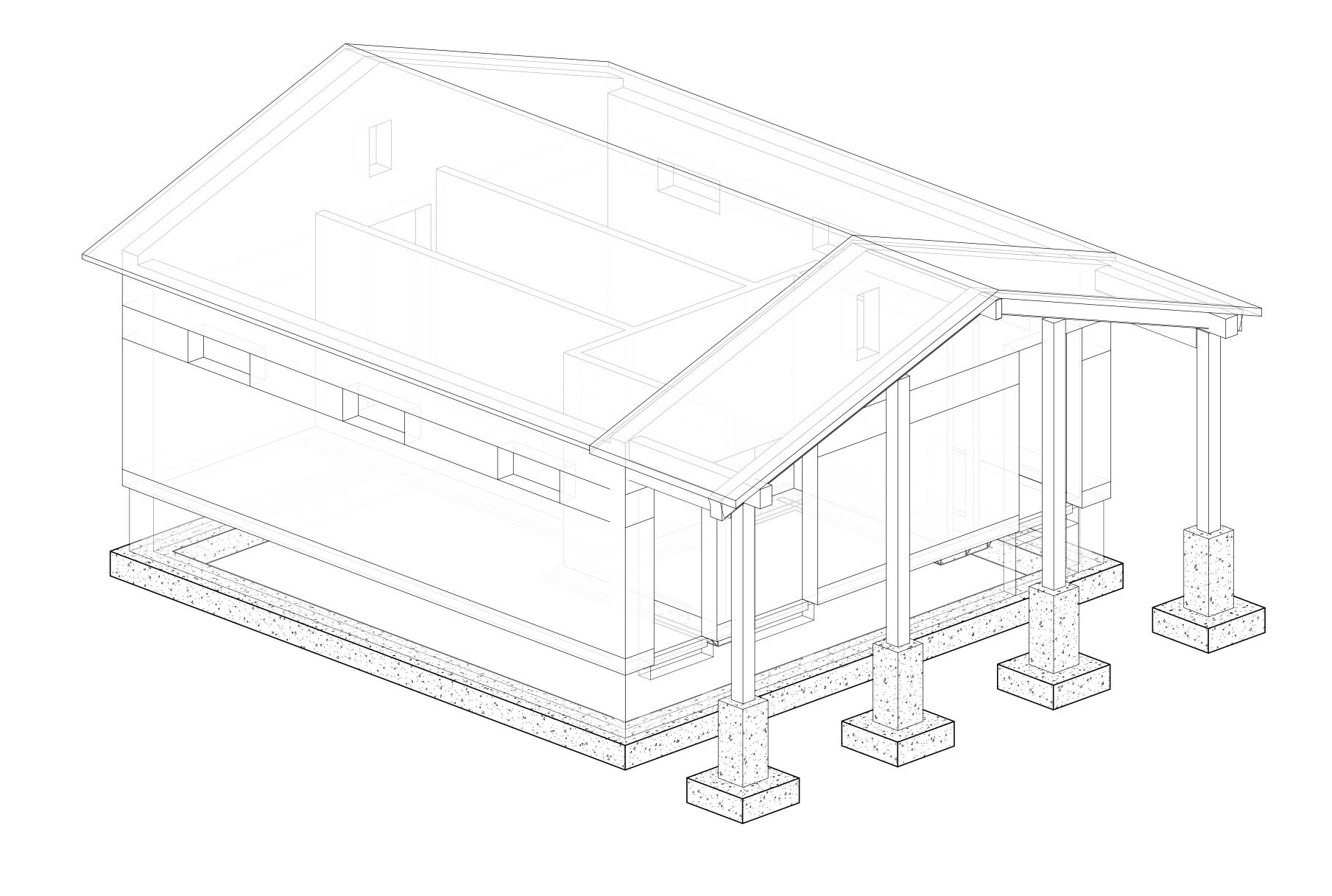
GREAT COUNCIL STATE PARK OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO

JOB NUMBER: DNR-250004 DESIGNED BY: DRAWN BY: SCALE: AS NOTED DATE: 09/04/2025 CHECKED BY: BID DOCUMENTS



ABBREVIATIONS

#	NUMBER	FABR	FABRICATE (OR)	OC	ON CENTER (S)
#	POUND (S)	FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER
t/FT	POUNDS PER LINEAL FOOT	FFE	FINISHED FLOOR ELEVATION	OF	OUTSIDE FACE
L	CENTERLINE	FIN	FINISHED	OPNG	OPENING
Ľ	PLATE	FL	FULL LENGTH	OPP	OPPOSITE (HAND)
)	DIAMETER	FLR	FLOOR	OPT	OPTIONAL
		FND	FOUNDATION	ORIG	ORIGINAL
ΔB	ANCHOR BOLT	FOM	FACE OF MASONRY	OSB	ORIENTED STRAND BOARD
ADD'L	ADDITIONAL	FOS	FACE OF SHEATHING	OSL	OUT STANDING LEG
ADJ	ADJACENT	FOV	FACE OF VENEER	OVHD	OVERHEAD
AFF	ABOVE FINISHED FLOOR	FOW	FACE OF WALL	OVS	OVERSIZED ROUND HOLES
	ANCHOR	FS	FAR SIDE	OVS	OVERSIZED ROUND HOLES
ANC				D/C	DDECACT CONCDETE
APPROX	APPROXIMATELY	FT	FEET, FOOT	P/C	PRECAST CONCRETE
ARCH	ARCHITECT(URAL)	FTG	FOOTING	PAF	POWDER ACTUATED FASTENER
. 51	DAGE DI ATT	6.1	0.405	PEMB	PRE-ENGINEERED METAL BUILD
3 PL	BASE PLATE	GA	GAGE	PLF	POUND PER LINEAR FOOT
B, BOT	BOTTOM	GALV	GALVANIZED	PLWD	PLYWOOD
BLDG	BUILDING	GC	GENERAL CONTRACTOR	PNL	PANEL
BLK	BLOCK	GEN	GENERAL	PREL	PRELIMINARY
BLK'G	BLOCKING	GR	GRADE	PROJ	PROJECT
3M	BEAM	GRND	GROUND	PSF	POUNDS PER SQUARE FOOT
BRG	BEARING	GRTG	GRATING	PSI	POUNDS PER SQUARE INCH
BRK	BRICK			PSL	PARALLEL STRAND LUMBER
3S	BOTH SIDES	H, HORIZ	HORIZONTAL		
3SMT	BASEMENT	HD	HEADED	QTY	QUANTITY
BTWN	BETWEEN	HK	HOOK		
		HS	HIGH-STRENGTH	RD	ROOF DRAIN
c/c	CENTER-TO-CENTER	HVAC	HEATING VENTILATING AIR CONDITIONING	REF	REFERENCE
CB	CONCRETE BEAM	,		REINF	REINFORCE (ING), (ED)
CE	CONTINUOUS END	ID	INSIDE DIAMETER (DIMENSION)	REQ	REQUIRE (MENTS)
FMF	COLD FORMED METAL FRAMING	IF	INSIDE FACE	REQ'D	REQUIRED
		IN	INCH		
IJ	CONTROL JOINT			REV	REVIS (ION), (ED)
CLR	CLEAR	INT	INTERIOR, INTERMEDIATE	RF	ROOF
CMU	CONCRETE MASONRY UNIT		10.00	RM	ROOM
COL	COLUMN	JST 	JOIST	RTU	ROOF TOP UNIT
CONC	CONCRETE	JT	JOINT		
CONN	CONNECT (ION)			S	SOUTH
CONST	CONTRUCT (ION)	KP	KIP (1000 POUNDS)	SC	SLIP-CRITICAL
CONT	CONTINUOUS (ATION)	KSF	KIPS PER SQUARE FOOT	SCHED	SCHEDULE
CONTR	CONTRACTOR			SECT	SECTION
CTR	CENTER	LAT	LATERAL	SHT	SHEET
CW	CURTAIN WALL	LBS, #	POUNDS	SIM	SIMILAR
CY	CUBIC YARDS	LG	LONG	SL	SLOPE (D)
		Ш	LIVE LOAD	SP	SPACE (S), (ED)
DA	DRILLED ANCHOR	LLH	LONG LEG HORIZONTAL	SPEC	SPECIFICATION (S)
DBL	DOUBLE	LLV	LONG LEG VERTICAL	SPL	SPLICE
DBLS	DOUBLE TIES	LNTL	LINTEL	SQ	SQUARE
DE	DISCONTINUOUS END	LOC	LOCATION	SS	STAINLESS STEEL
DET	DETAIL	LSH	LONG SIDE HORIZONTAL	SSL	SHORT SLOTTED HOLES
DIA	DIAMETER	LSL	LONG SLOTTED HOLES	SSR	SHEAR STUD RAILS
DIAG	DIAGONAL	LSV	LONG SIDE VERTICAL	STA	STATION
DIAG DIM	DIMENSION	LVL	LAMINATED VENEER LUMBER	STD	STANDARD
DL	DEAD LOAD	LW	LONG WAY	STIFF	STIFFENER
DR DR		LVV	LONG WAT		
	DISTRIBUTION RIB	1116	ALACONIDV	STL	STEEL (AL)
DWG	DRAWING	MAS	MASONRY	STRUCT	STRUCTURE (AL)
DWL	DOWEL	MAT'L	MATERIAL	SVC	SERVICE
_		MAX	MAXIMUM	SW	SHORT WAY
E	EAST	MBR	MEMBER	SYM	SYMMETRICAL
E-, EXTG	EXISTING	MECH	MECHANICAL		
EA	EACH	MEZZ	MEZZANINE	T	TOP
ΕE	EACH END	MFR	MANUFACTURE (R)	T&B	TOP AND BOTTOM
EF .	EACH FACE	MIN	MINIMUM	T/	TOP OF
EJ	EXPANSION JOINT	MISC	MISCELLANEOUS	TEMP	TEMPERATURE, TEMPORARY
EL	ELEVATION	MO	MASONRY OPENING	THD	THREADED
ELEV	ELEVATOR	MPH	MILES PER HOUR	THK	THICK (NESS)
EMBED	EMBEDDED (MENT)	MTL	METAL	TOS	TOP OF STEEL
ENGR	ENGINEER			TOSL	TOP OF SLAB
EOS	EDGE OF SLAB	N	NORTH	TOT	TOTAL
EQ	EQUAL	N/A	NOT APPLICABLE	TYP	TYPICAL
ES	EACH SIDE	NF	NEAR FACE		1111011
EW	EACH WAY	NIC	NOT IN CONTRACT	UN	UNLESS NOTED
EXP	EXPANSION	NO, #	NUMBER	UNO	UNLESS NOTED OTHERWISE
EXT		NOM	NOMINAL	UNO	ONLESS NOTED OTTIERWISE
ĽΛΙ	EXTERIOR			W	VEDTICAL
E.10	EDOM AD MICENEE DEAM	NS	NEAR SIDE	V	VERTICAL
FAB	FROM ADJACENT BEAM	NSH	NORMAL SLOTTED HOLES	VERT	VERTICAL
		NTS	NOT TO SCALE	***	\.FCT
				W	WEST
		o/o	OUT-TO-OUT	W/	WITH
				W/C	WATER/CEMENT RATIO
				W/O	WITHOUT
				WD	WOOD
				WL	WIND LOAD
				WL WP	WIND LOAD WORK (ING) POINT
				WP	WORK (ING) POINT
				WP WT	WORK (ING) POINT WEIGHT
				WP	WORK (ING) POINT
				WP WT WWR	WORK (ING) POINT WEIGHT WELDED WIRE REINFORCING
				WP WT	WORK (ING) POINT WEIGHT



RESTROOMS BUILDING

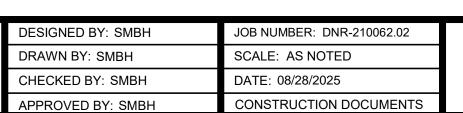
	SMBH SHEET LIST					
NUMBER	NAME					
R-S1	STRUCTURAL COVER SHEET					
R-S2	GENERAL NOTES					
R-S3	SPECIAL INSPECTIONS					
R-S4	FOUNDATION PLAN					
R-S5	ROOF FRAMING PLAN					
R-S6	RESTROOM BLDG SECTIONS					











GREAT COUNCIL STATE PARK

OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO

OHIO BUILDING CODE - 2024 EDITION

SEE STRUCTURAL PLANS FOR DESIGN SOIL BEARING PRESSURE AND LIVE LOADS. LIVE LOADS REDUCED IN ACCORDANCE WITH THE GOVERNING CODE, IF APPLICABLE.

ROOF SNOW LOAD: - 20 PSF GROUND SNOW LOAD (Pg) SNOW EXPOSURE FACTOR (Ce) - 1.0 IMPORTANCE FACTOR (Is) - 1.0 THERMAL FACTOR (Ct) - 1.0 FLAT ROOF SNOW LOAD (Pf) - 14 PSF - 20 PSF UNIFORM ROOF DESIGN SNOW LOAD

SEE PLANS OR JOIST DIAGRAMS FOR SNOW DRIFT INFORMATION WIND LOAD: - 107 MPH BASIC WIND SPEED

ALLOWABLE WIND SPEED - 83 MPH RISK CATEGORY - EXPOSURE C EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT (G Cpi) - ±0.18

COMPONENTS AND CLADDING - SEE TABLE BELOW

COMPONENTS AND CLADDING

WIND SPEED, V= 107 MPH EXPOSURE CATEGORY HEIGHT, H, 11 FT (ENCLOSED BUILDING; H< 60 FT) PARAPET HT < 3'-0" ROOF

	11001		
	SUR	FACE PRESSURE (F	PSF)
REA	10 sf	50 sf	100 sf
EGATIVE ZONE 1	-27.7	-16.8	-10.0
EGATIVE ZONE 2	-40.4	-27.7	-22.2
EGATIVE ZONE 3	-48.0	-32.0	-25.1
OSITIVE ALL ZONES	10.0	10.0	10.0
/ERHANG ZONE 1 & 1'	-31.7	-24.5	-19.0
/ERHANG ZONE 2	-44.4	-34.9	-30.8
/ERHANG ZONE 3	-52.0	-35.5	-28.4
		·	•

	WALLS			
	SURFACE PRESSURE (PSF)			
WALL AREA	10 sf	100 sf	500 sf	
NEGATIVE ZONE 4	-16.2	-14.0	-12.4	
NEGATIVE ZONE 5	-20.0	-15.6	-12.4	
POSITIVE ZONES 4 & 5	15.0	12.7	11.2	

. SEE ASCE7 FOR ZONE DEFINITIONS. ALL WIND PRESSURES ARE ULTIMATE LOADS.

SEISMIC LOAD: RISK CATEGORY IMPORTANCE FACTOR (Ie) - 1.0 MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss) MAPPED SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND PERIOD (S1) - 0.069 SITE CLASS SPECTRAL RESPONSE PARAMETER AT SHORT PERIOD (SDs) - 0.148 SPECTRAL RESPONSE PARAMETER AT ONE-SECOND PERIOD (SD1) - 0.11 SEISMIC DESIGN CATEGORY DESIGN BASE SHEAR ASD SEISMIC RESPONSE COEFFICIENT (Cs)

BASIC SEISMIC FORCE RESISTING SYSTEM: A9 -ORDINARY REINFORCED MASONRY SHEAR WALLS (R=2, Ω =2 1/2, Cd=1 3/4)

DESIGN BY EQUIVALENT LATERAL FORCE PROCEDURE.

MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL DRAWINGS.

IF EQUIPMENT SHIPPING OR OPERATING WEIGHT EXCEEDS VALUE SHOWN ON THESE DRAWINGS, DO NOT PLACE EQUIPMENT.

NOTIFY STRUCTURAL ENGINEER AND ARCHITECT. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

10. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION

12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS ETC. WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND DRAWINGS OF ANY OTHER DISCIPLINE.

13. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION DEAD LOAD APPLIED TO THE STRUCTURAL FRAMING.

14. THE ERECTION AND CONSTRUCTION SEQUENCES SHALL BE DEVELOPED BY THE CONTRACTOR TO ACCOUNT FOR THE EFFECTS OF THERMAL MOVEMENTS TO THE STRUCTURE. DETAILED EXPANSION JOINTS ON THESE DRAWINGS ARE DESIGNED FOR MOVEMENT OF A COMPLETED STRUCTURE.

15. DO NOT MODIFY, ALTER OR REPAIR ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL 16. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMISSION TO STRUCTURAL ENGINEER.

17. DEFERRED SUBMITTALS: THE FOLLOWING COMPONENTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR, LICENSED IN THE STATE OF THE PROJECT. DESIGN INFORMATION SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. SEE CONTRACT DOCUMENTS FOR DESIGN LOADS AND OTHER DESIGN CRITERIA. A. WOOD ROOF TRUSSES.

B. ERECTION PROCEDURES AND SEQUENCES. 18. SEE SHEET_R-S3_FOR SPECIAL INSPECTIONS.

AND EXISTING SERVICE ON THE SITE.

033000 - CAST-IN-PLACE CONCRETE

1. SPECIFICATIONS AND STANDARDS: CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF BARS AND CONCRETE SHALL BE GOVERNED BY THE APPLICABLE VERSION OF:

A. ACI 301, ACI 315, AND ACI 318.

B. CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. C. ACI 306 AND ACI 305 FOR COLD AND HOT WEATHER CONCRETING, RESPECTIVELY. THE CONTRACTOR SHALL AT ALL TIMES HAVE A COPY OF THE RELEVANT SPECIFICATIONS QUOTED ABOVE ON THE SITE AND THE SUPERVISORY PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH THE CONTENTS THEREOF.

2. CONTINGENCIES: A. LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVEREXCAVATION OR SOFT SPOTS.

3. CONCRETE REQUIREMENTS AND LOCATION IN JOB:

<u>CLASS</u>	<u>LOCATION</u>	<u>f'c</u>	MAX W/C RATIO	SPECIAL REQUIREMENTS
1	FOOTINGS	3000PSI		
2	EXTERIOR CONCRETE	4500 PSI	0.45	6% +/- 1.5% AIR CONTENT
3	INTERIOR SLABS-ON-GRADE,	3500 PSI	0.50	3% MAX AIR CONTENT
4	LEAN CONCRETE	1500 PSI		NO TESTS, SOFT SOIL REPLACE
5	FLOWABLE FILL	85 PSI		NO TESTS, UTILITY BACKFILL
				UNDER FOOTINGS

SUBMIT CONCRETE MIXES FOR APPROVAL IN ACCORDANCE WITH ACI 301 BEFORE PLACING ANY CONCRETE. ALL MIXES SHALL INCLUDE EITHER ASTM C150 PORTLAND CEMENT OR ASTM C595 PORTLAND-LIMESTONE CEMENT AND ALL AGGREGATE SHALL CONFORM TO ASTM C33. CONCRETE TESTING PER ACI 318 SECTION 26.12.

4. REINFORCING REQUIREMENTS:

A. BARS: ASTM A615, GRADE 60. B. WELDED WIRE REINFORCING: ASTM A1064.

5. FOOTINGS:

A. DOWELS IN FOOTINGS TO MATCH VERTICAL REINFORCING IN WALLS, COLUMNS AND PIERS. DOWELS IN FOOTINGS FOR MASONRY WALLS ARE NOT REQUIRED UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DETAILS.

B. BEND ALL BARS 24 DIAMETERS AROUND CORNERS OF FOOTINGS. BARS AT THE INSIDE FACE OF THE CORNER SHALL BE CONTINUED ACROSS TO THE OUTSIDE AND THEN BENT.

A. IF NO OTHER REINFORCING IS SHOWN IN A SLAB ON GRADE, PROVIDE 6x6-W1.4xW1.4 WWR AT THICKNESS/3 FROM TOP OF SLAB, UNLESS NOTED OTHERWISE. B. PROVIDE (2) #4x3'-0" DIAGONAL REINF AT 2" SPACING IN TOP THIRD OF SLAB (1" MIN CLR) AT ALL RE-ENTRANT CORNERS

IN SLABS ON GRADE. C. PROVIDE (2) #4x3'-0" REINF AT 2" SPACING IN TOP THIRD OF SLAB (1" MIN CLR) PERPENDICULAR TO JOINTS THAT

TERMINATE AT A PARTICULAR JOINT IN SLABS ON GRADE.

A. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3".

 FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2" FOR #5 OR SMALLER, 2" FOR #6 OR LARGER. • FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: WALLS & SLABS: 3/4", BEAMS & COLUMNS (TO TIES OR STIRRUPS): 1 1/2".

8. MISCELLANEOUS:

A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. B. PROVIDE EQUIPMENT PADS, INERTIA BASES AND CURBS AS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH HOOKED #4x0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18" c/c EACH WAY. REINFORCE PADS WITH #4 @ 18" c/c EACH WAY AT MID-DEPTH (FOR PADS <8" THICK) UNLESS REQUIRED OTHERWISE BY

EQUIPMENT SUPPLIER. C. SUBMIT STEEL REINFORCING SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT PRIOR TO FABRICATION.

042000 CONCRETE UNIT MASONRY

1. SPECIFICATIONS AND STANDARDS: DESIGN OF MASONRY SHALL BE GOVERNED BY THE APPLICABLE VERSION OF:

A. TMS 402, TMS 403, AND TMS 404.

2. COMPRESSIVE STRENGTH OF MASONRY (f'm) 2,500 PSI, DETERMINED BY UNIT STRENGTH OR PRISM METHOD. A. HOLLOW AND SOLID LOAD BEARING CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT. NET COMPRESSIVE

STRENGTH OF CMU = 3,250 PSI.

B. CONCRETE BRICK: ASTM C55, GRADE N1. C. MORTAR: ASTM C270, TYPE S.

D. COARSE MASONRY GROUT: ASTM C476.

28-DAY COMPRESSIVE STRENGTH TO MATCH F'M GIVEN IN ITEM 2.

 PROVIDE GROUT WITH A SLUMP OF 8-11 INCHES AS MEASURED ACCORDING TO ASTM C143. • TESTING - PROVIDE ONE SET OF TESTS FOR EACH 5,000 SF OF WALL WITH A MINIMUM OF ONE TEST PER DAY. TESTS SHALL CONSIST OF EITHER (2) 6"X12" CYLINDERS, (3) 4"X8" CYLINDERS OR A GROUT TEST PER ASTM C1019.

E. MASONRY REINFORCEMENT: • HORIZONTAL JOINT REINFORCEMENT: 9 GA DEFORMED WIRE, LADDER TYPE REINFORCEMENT.

a. IN EVERY SECOND BLOCK COURSE, FULL HEIGHT, AND WHERE SHOWN ON DRAWINGS. b. IN FIRST BED JOINT ABOVE AND BELOW OPENINGS EXTENDING 24" BEYOND OPENING.

c. LAP REINFORCEMENT A FULL WIDTH AT CORNERS AND INTERSECTIONS. VERTICAL REINFORCEMENT: ASTM A615, GRADE 60.

4. BEARING POINTS:

A. TRUSSES: 3 COURSES x 24" WIDE SOLID OR GROUTED SOLID MASONRY.

B. LINTELS: 2 COURSES x 16" WIDE SOLID OR GROUTED SOLID MASONRY.

REINFORCED MASONRY:

A. INSTALL REINFORCING BARS IN LOCATIONS SHOWN. SEE TABLE BELOW FOR LAP SPLICE REQUIREMENTS.

CMU LAP SPLICE SCHEDULE (f'm≥2000 PSI):

BAR SIZE 8" CMU - CENTERED 12" CMU - CENTERED 8" CMU - EDGE 12" CMU - EDGE N/A N/A

NOTES: CENTERED & EDGE REFER TO THE REINFORCING BAR POSITION IN MASONRY WALL. FOR EDGE CONDITIONS, PROVIDE 2" OF COVER FROM EXTERIOR FACE OF CMU TO EDGE OF REINFORCING BAR.

B. GROUT BLOCK WITH COARSE MASONRY GROUT VIBRATED IN PLACE TO FILL ALL VOIDS AND INTERSECTIES. FOLLOW RECOMMENDATIONS OF NCMA TEK NO. 3-2.

CONTROL JOINTS: A. INSTALL CONTROL JOINTS IN ALL MASONRY WALLS AS INDICATED ON PLAN AND AT A SPACING NOT TO EXCEED THE LESSER OF THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER.

B. INSTALL CONTROL JOINTS AT THE FOLLOWING LOCATIONS:

CHANGE IN WALL HEIGHT.

 CHANGE IN WALL THICKNESS. TRANSITION FROM INTERIOR WALL TO EXTERIOR WALL.

TRANSITION FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB

C. STOP ALL HORIZONTAL REINFORCING AT CONTROL JOINTS UNLESS NOTED OTHERWISE. 7. POST-INSTALLED WEDGE ANCHORS: (FOR USE IN GROUT-FILLED CONCRETE MASONRY):

A. THE ENTIRE ANCHOR SHALL BE CARBON STEEL (INTERIOR) OR STAINLESS STEEL/GALVANIZED (EXTERIOR). B. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED

BY AN ICC-ES EVALUATION REPORT SHOWING SUITABILITY WITH GROUT-FILLED CONCRETE MASONRY. C. SUBJECT TO COMPLIANCE REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT CAPABLE OF RESISTING LOADS EQUIVALENT TO THE BASIS OF DESIGN PRODUCT WHEN USED WITH THE SAME EMBEDMENT, ORIENTATION, EDGE DISTANCE, AND SPACING. SUBMIT PROPOSED SUBSTITUTION FOR APPROVAL WITH ACCOMPANYING

8. COORDINATE BLOCK-OUTS, REVEALS, OPENINGS AND ALL OTHER BUILT-IN ITEMS WITH ALL CONTRACT DOCUMENTS AND TRADES.

061000 - ROUGH CARPENTRY

1. SPECIFICATIONS AND STANDARDS:

A. DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION RECOMMENDED PRACTICE BY THE AMERICAN FOREST AND PAPER ASSOCIATION.

MATERIALS:

A. ONLY USE DIMENSIONAL LUMBER - SPRUCE-PINE-FIR #1/#2 OR BETTER: E = 1,400,000 PSI. Fb = 875 PSI. Fv = 135 PSI. Fc = 1150 PSI. DIMENSIONAL LUMBER FOR PRESSURE TREATED AND FRT STRESSES - BEFORE TREATMENT - SOUTHERN PINE #1

OR BETTER: E = 1,600,000 PSI. Fb = 1250 PSI (2x8). Fy = 175 PSI. Fc = 1500 PSI (2x8). B. NAILS: COMMON WIRE NAILS: ASTM F1667.

C. STEEL CONNECTION MATERIALS: ASTM A36.

D. BOLTS: ASTM A307 (SAE J429 Grade 1 EQUIV Fyb = 45,000 PSI = Fy/2+Fu/2) WITH TWO WASHERS.

E. WOOD SCREWS: ASME B18.6.1.

F. LAG BOLTS: ASME B18.2.1. G. METAL FRAMING ANCHORS AND CONNECTORS: 16 OR 18 GA. GALVANIZED STEEL (ASTM A653, G60) SIZED FOR FULL LOAD CARRYING CAPACITY OF SUPPORTED MEMBER. NOMENCLATURE BASED ON ANCHORS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY INC.

H. ALL SHEATHING TO HAVE EXTERIOR GLUE.

3. CONSTRUCTION REQUIREMENTS: A. MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS.

B. CONNECT ALL FRAMING SECURELY TOGETHER WITH NAILS, SPIKES, OR FRAMING ANGLES.

C. SOLID BLOCKING IN FLOOR CONSTRUCTION UNDER POSTS, MULTIPLE STUDS AND BEAM BEARINGS. D. BRIDGING FOR FLOOR, ATTIC AND ROOF JOIST: NOT LESS THAN ONE LINE FOR EACH EIGHT FEET OF SPAN FOR MEMBERS 2x10 AND DEEPER.

061300 HEAVY TIMBER CONSTRUCTION

SPECIFICATIONS AND STANDARDS

A. DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD

CONSTRUCTION RECOMMENDED PRACTICE BY THE AMERICAN FOREST AND PAPER ASSOCIATION.

B. GRADING AND FABRICATION TO COMPLY WITH AITC 108, "STANDARD FOR HEAVY TIMBER CONSTRUCTION" AND DOC PS 20, "AMERICAN SOFTWOOD LUMBER STANDARD" AND WITH APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY ALSC'S BOARD OF REVIEW.

C. INSPECTION AGENCIES INCLUDE THE FOLLOWING: NELMA, WCLIB, WWPA

MATERIALS:

A. USE SOUTHERN PINE NO. 1 DENSE OR BETTER;

E = 1,600,000 PSI, Fb= 1,550 PSI, Fv= 165 PSI, Fc= 975 PSI

B. MOISTURE CONTENT: SEASONED TO 16% MOISTURE CONTENT

C. DRESSING: ROUGH SAWN, UNLESS OTHERWISE INDICATED D. EDGE TREATMENT: 3/16" CONTINUOUS CHAMFER

E. END SEALER: MANUFACTURER'S STANDARD, TRANSPARENT, COLORLESS WOOD SEALER THAT IS EFFECTIVE IN RETARDING THE TRANSMISSION OF MOISTURE AT CROSS-GRAIN CUTS AND IS COMPATIBLE WITH INDICATED FINISH. 3. CONNECTIONS

A. NAILS: COMMON WIRE NAILS: ASTM F1667

B. STEEL CONNECTION MATERIALS: ASTM A36

C. BOLTS: ASTM A307 WITH 2 WASHERS

D. WOOD SCREWS: ASME B18.6.1. E. STRUCTURAL TIMBER SCREWS: BLUE (ELECTRO) GALVANIZED 8MM x 224MM MINIMUM

F. LAG BOLTS: ASME B18.2.1.

G. METAL FRAMING ANCHORS AND CONNECTORS: 16 OR 18 GA. GALVANIZED STEEL (ASTM A653, G60) SIZED FOR FULL LOAD CARRYING CAPACITY OF SUPPORTED MEMBER. NOMENCLATURE BASED ON ANCHORS MANUFACTURED BY SIMPSON STRONG-TIE CO. INC.

4. MISCELLANEOUS

A. AVOID EXTRA CUTTING AFTER FABRICATION

B. CONNECT ALL FRAMING SECURELY TOGETHER

C. ERECT FRAMING TRUE AND PLUMB, PROVIDE TEMPORARY BRACING AS REQUIRED

D. SUBMIT, FOR APPROVAL, DETAILED SHOP DRAWINGS. THE SHOP DRAWINGS SHALL SHOW ALL DESIGN CRITERIA, LAYOUT, MEMBER SIZES AND LUMBER GRADES, DESIGN STRESSES, CONNECTION DETAILS, REQUIRED BEARING LENGTHS AND BRACING REQUIREMENTS. THE SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

061753 - SHOP-FABRICATED WOOD TRUSSES

1. DESIGN, DETAILING, FABRICATION AND ERECTION SHALL BE GOVERNED BY:

A. TRUSS PLATE INSTITUTE - NATIONAL DESIGN STANDARD OR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.

B. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION OR APA OR EWS - TIMBER CONSTRUCTION STANDARDS.

C. AMERICAN FOREST AND PAPER ASSOCIATION - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. 2. SUBMIT, FOR APPROVAL, DETAILED SHOP DRAWINGS. THE SHOP DRAWINGS SHALL SHOW ALL DESIGN CRITERIA, LAYOUT, MEMBER SIZES AND LUMBER GRADES, DESIGN STRESSES, CONNECTION DETAILS, REQUIRED BEARING LENGTHS AND BRACING REQUIREMENTS. THE SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

MATERIALS:

A. LUMBER: SOUTHERN PINE #2 OR BETTER.

B. BOLTS: ASTM A307. C. CONNECTORS-TRUSS MEMBER CONNECTOR PLATES SHALL BE NOT LESS THAN 20 GAGE GALVANIZED STEEL PLATES.

D. LIGHT-GAGE JOIST HANGERS AND FRAMING ANCHORS: GALVANIZED STEEL FOR THE FULL LOAD CARRYING CAPACITY OF THE SUPPORTED MEMBER. PROVIDE SIMPSON "STRONG-TIE" OR BETTER.

4. FABRICATION:

PLY STUDS UNDER GIRDER TRUSSES WITH TRUSS SHOP DRAWINGS.

A. ALL MEMBERS SHALL BE CUT TO BEAR FROM STRAIGHT LUMBER AND BUTTED TIGHT. B. ALL MEMBERS AND CONNECTOR PLATES SHALL BE PROPERLY PLACED IN JIGS UNTIL THE CONNECTOR PLATES HAVE BEEN

PRESSED INTO PLACE. 5. ERECTION:

A. ALL TRUSSES SHALL BE BRACED DURING ERECTION. ERECTION BRACING SHALL HOLD TRUSSES STRAIGHT AND PLUMB UNTIL DECKING AND PERMANENT BRACING HAVE BEEN FASTENED. PROPER HANDLING AND ERECTION BRACING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

B. PROVIDE AND INSTALL PERMANENT TRUSS BRACING IN ACCORDANCE WITH THE REFERENCED STANDARDS AND THE APPROVED SHOP DRAWINGS.

 WEB MEMBER HORIZONTAL BRACING SHALL BE CONTINUOUS ALONG THE LENGTH OF THE ROOF. PROVIDE DIAGONAL WEB MEMBER BRACING BETWEEN EACH HORIZONTAL LINE OF BRACING AND THE SHEATHED TRUSS TOP CHORD AT

20'-0" INTERVALS ALONG THE LENGTH OF THE ROOF, AND AT EACH END. IF THE TOP OR BOTTOM CHORDS OF THE TRUSSES ARE NOT PERMANENTLY BRACED BY SHEATHING, PROVIDE CONTINUOUS HORIZONTAL BRACING FOR THE UN-BRACED CHORDS AT A MINIMUM OF 5'-0" ON CENTER ALONG THE LENGTH OF THE TRUSS, AND PROVIDE DIAGONAL BRACING AT THESE LOCATIONS, BETWEEN THE TOP AND BOTTOM TRUSS CHORDS, AT 20'-0" ON CENTER ALONG THE LENGTH OF THE ROOF, AND AT EACH END.

6. MISCELLANEOUS

A. DESIGN AND SUPPLY CONNECTIONS FOR TRUSSES TO GIRDER TRUSSES, TRUSS PLY TO PLY AND TRUSS FIELD SPLICES.

B. GIRDER TRUSSES - MINIMUM TWO PLYS AND FASTENED TOGETHER PER MANUFACTURER'S RECOMMENDATIONS.

C. TRUSS PROFILES SHOWN ARE FOR SCHEMATIC PURPOSES ONLY. THE TRUSS DESIGNER IS RESPONSIBLE FOR CALCULATING THE TRUSS GEOMETRIES AND LOADING. D. ADJACENT TRUSSES OF THE SAME PROFILE SHALL HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF MECHANICAL

E. TRUSS ANCHORAGES AND HOLD-DOWNS ARE BASED ON TRUSS LAYOUT SHOWN. COORDINATE FINAL LOCATION OF MULTI-

BARSCH 63430



1166 Dublin Road Suite 200 Columbus, OH 43215-1038 614-481-9800 www.smbhinc.com smbh job no: 024-055.006



GREAT COUNCIL STATE PARK OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO

DRAWN BY: SMBH SCALE: AS NOTED CHECKED BY: SMBH DATE: 08/28/2025 CONSTRUCTION DOCUMENTS APPROVED BY: SMBH

JOB NUMBER: DNR-210062.02

DESIGNED BY: SMBH

PART 1: SCHEDULE OF SPECIAL INSPECTIONS	

STATEMENT OF SPECIAL INSPECTIONS 1. SPECIAL INSPECTION FREQUENCY DEFINITIONS:

A. CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

B. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE

	IBC T	ABLE 1705.3			
RFOLIRED V			ONCRETE CONSTRUCTION	<u> </u>	
			I		DEMARKS
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARDS ^A	IBC SECTION	REMARKS
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	N/A	N/A	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4000	
2. INSPECTION OF REINFORCING STEEL WELDING	N/A	N/A			
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	AWS D1.4, ACI 318: 26.6.4		
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	Х	ACI 310. 20.0.4		
C. INSPECT ALL OTHER WELDS	X	-			
3. INSPECTION OF ANCHORS CAST IN CONCRETE	-	Χ	ACI 318: 17.8.2	-	
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	N/A	N/A			
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2	-	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	-	Х			
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	Х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	
6. PRIOR TO CONCRETE PLACEMENT,			ASTM C 172		
FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT	X	-	ASTM C 31	1908.10	
TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.			ACI 318: 26.4, 26.12		
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8	
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3, 26.5.5	1908.9000	
9. INSPECTION OF PRESTRESSED CONCRETE:	N/A				
A. APPLICATION OF PRESTRESSING FORCES.	X	N/A	ACI 318: 26.10		
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM.	Х	IVA	7.01 510. 20.10		
10. ERECTION OF PRECAST CONCRETE MEMBERS.	N/A	N/A	ACI 318: 26.8	-	
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	Х	ACI 318: 26.11.2	-	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(B)	-	

B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN

APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

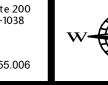
	TABLE 3.1.2 (TMS				
	LEVEL B QUALITY AS				
VERIFICATION AND INSPECTION	FREQUENCY O CONTINUOUS	F INSPECTION PERIODIC	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6	REMARKS
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	-	Х		1.5	
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR B. CONSTRUCTION OF MORTAR	-	X		2.1, 2.6 A	
JOINTS.	-	X		3.3 B	
C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	N/A	N/A		2.4 B, 2.4 H	
D. LOCATION OF REINFORCEMENT,CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	-	X		3.4, 3.6 A	
E. PRESTRESSING TECHNIQUE	N/A	N/A		3.6 B	
F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	-	X ^(B)		2.1 C	
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE	-	Х		3.2 D, 3.2 F	
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	-	Х	6.1	2.4, 3.4	
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	-	X	6.1, 6.2.1, 6.2.6, 6.2.7	3.2 E, 3.4, 3.6 A	
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	-	Х		2.6 B, 2.4 G.1.B	
E. CONSTRUCTION OF MORTAR JOINTS	-	X		3.3 B	
4. VERIFY DURING CONSTRUCTION:					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	-	Х		3.3 F	
B. TYPE, SIZE, & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	-	Х	1.16.4.3, 1.17.1		
C. WELDING OF REINFORCEMENT	-	X	2.1.7.7.2, 3.3.3.4(C), 8.3.3.4(B)		
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	-	Х		1.8 C, 1.8 D	
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	N/A	N/A		3.6 B	
F. PLACEMENT OF GROUT & PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	-		3.5, 3.6 C	
G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	-	X ^(B)		3.3 B.9, 3.3 F.1.B	
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	-	Х		1.4 B.2.A.3, 1.4 B.2.B.3, 1.4 B.2.C.3, 1.4 B.3, 1.4	

I	BC 1705.5 WOOD CONSTRUCT	TION	
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REMARKS
1. INSPECTION OF THE FABRICATION PROCESS OF WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES IN ACCORDANCE WITH SECTION 1704.2.5	-	X	
2. FOR HIGH-LOAD DIAPHRAGMS, VERIFY GRADE AND THICKNESS OF STRUCTURAL PANEL SHEATHING AGREE WITH APPROVED BUILDING PLANS	-	X	
3. FOR HIGH-LOAD DIAPHRAGMS, VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENER LINES, AND THAT SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH APPROVED BUILDING PLANS	-	X	
4. METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER: VERIFY TEMPORARY AND PERMANENT RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	-	X	

PART I: S	CHEDULE OF SPECIAL INSPE	CCTIONS	
	IBC TABLE 1705.6		
REQUIRED VE	RIFICATION AND INSPECTIO	N OF SOILS	
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REMARKS
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY SITE HAS BEEN PREPARED PROPERLY.	-	X	

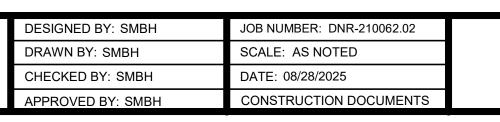


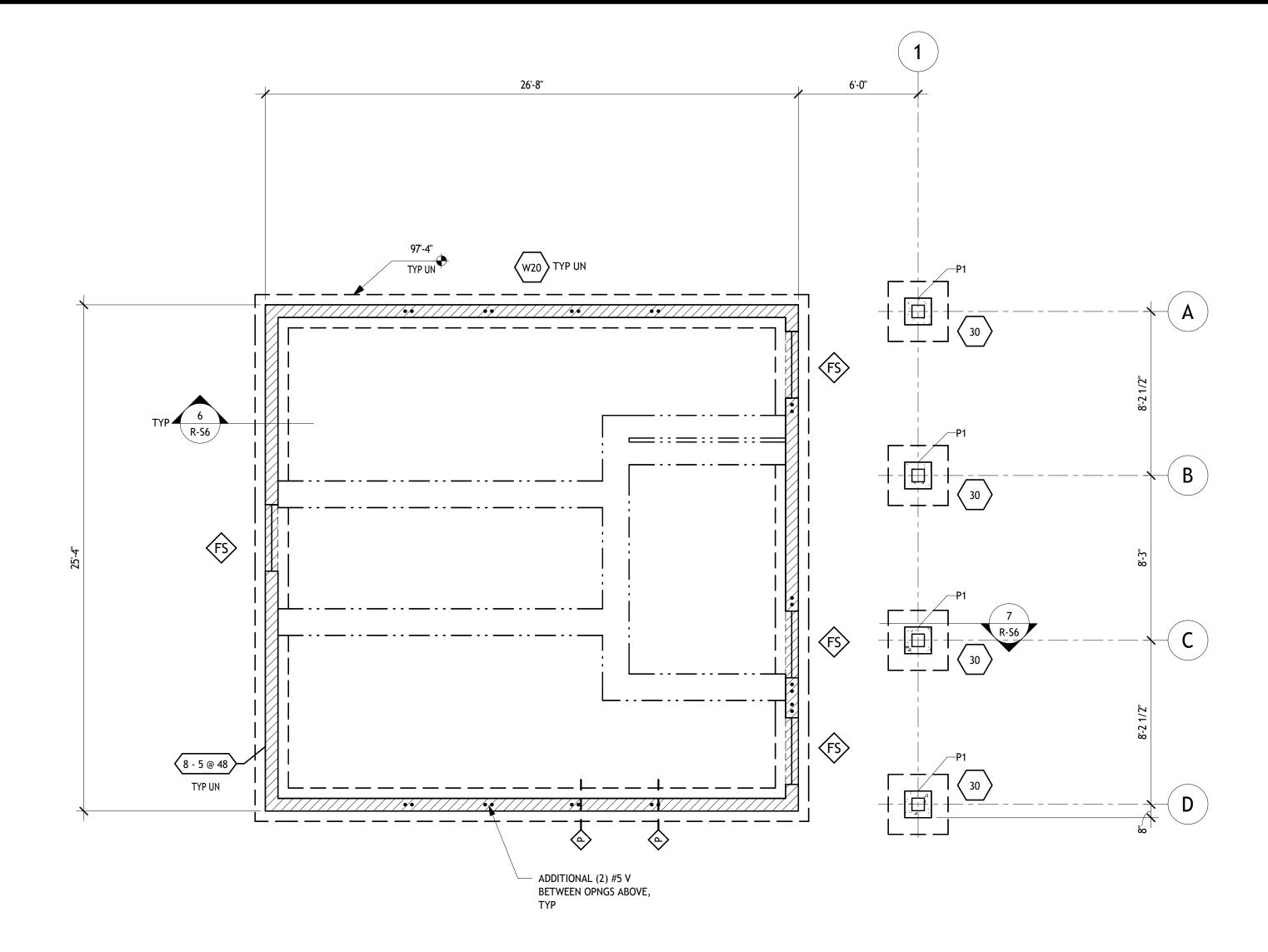


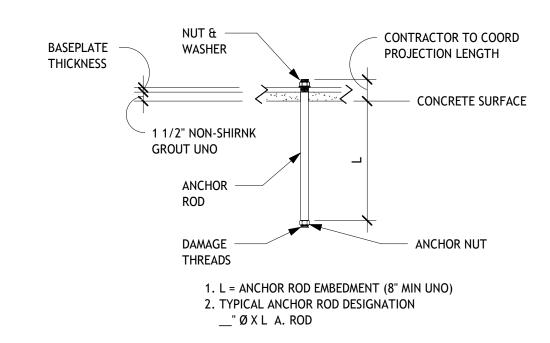




(A) REQUIRED FOR THE FIRST 5000 SQUARE FT OF AAC MASONRY (B) REQUIRED AFTER THE FIRST 5000 SQUARE FT OF AAC MASONRY







TYPICAL ANCHOR ROD DETAIL

CONCRETE PIER SCHEDULE					
MARK WIDTH LENGTH REINFORCING REM					
P1	1'-4"	1'-4"	(4) #6 VERT w/ #4 TIES @ 12"c/c	T/PIER = 100'-6"	

FOOTING SCHEDULE - ISOLATED FOOTINGS						
	SIZE					
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING	REMARKS	
30	3'-0"	3'-0"	1'-0"	(3) #5 EWB		

FOOTING SCHEDULE - WALL FOOTINGS					
SIZE					
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING	REMARKS
W20	1'-8"	CONT	1'-0"	(2) #5 CONT BOT	

FOUNDATION PLAN

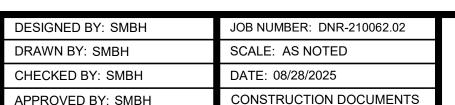
- 1. VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS. 2. 4" SLAB ON GRADE WITH 6x6-W1.4xW1.4 WWR. TYPICAL EXCEPT AS NOTED. PROVIDE 4" OF GRANULAR SUBGRADE BELOW SLAB UNLESS NOTED OTHERWISE IN THE REFERENCED GEOTECHNICAL REPORT.
- 3. TOP OF SLAB ELEVATION 100'-0" EXCEPT AS NOTED. SEE CIVIL DRAWINGS FOR REFERENCE SITE ELEVATION.
- 4. DESIGN SOIL BEARING PRESSURE 2,000 PSF. ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE DESIGN BEARING CAPACITY SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY SPECIALIZING IN SOILS INVESTIGATIONS. GEOTECHNICAL INFORMATION INCLUDED IN THE CONSTRUCTION DOCUMENTS WAS OBTAINED FROM A REPORT ISSUED BY CTL ENGINEERING, PROJECT NUMBER 25050027COL, DATED JUNE 9, 2025.
- 5. ELEVATIONS SHOWN ON PLAN ARE TOP OF THE FOOTING OR SLAB.
- 6. FOOTINGS TO CENTER UNDER COLUMN OR WALL UNLESS NOTED.
- 7. CONTRACTOR SHALL PROVIDE FLOOR CONTROL AND CONSTRUCTION JOINTS IN SLAB ON GRADE IN ACCORDANCE WITH SECTIONS 1/R-S6 , 2/R-S6 & 3/R-S6
- 8. ALL EXTERIOR FOOTINGS ARE TO EXTEND A MINIMUM OF 3'-0" BELOW FINISHED GRADE OR TO LOCALLY RECOGNIZED FROST DEPTH.
- 9. WHERE FILL IS ON BOTH SIDES OF THE FOUNDATION WALLS, INSTALL THE FILL UNIFORMLY ON BOTH SIDES OF THE WALL.
- 10. REFERENCE: GENERAL STRUCTURAL NOTES R-S2 11. SYMBOL LEGEND:
- INDICATES FOOTING MARK. SEE SCHEDULE ON SHEET R-S4 .
- INDICATES THICKENED SLAB ON PLAN, 16" WIDE x 8" DEEP WITH (2) #4 CONTINUOUS. SEE
- INDICATES FROST SLAB. SEE SECTION 5/R-S6 FOR MORE INFORMATION.
- INDICATES CMU BEARING WALL MARK; "A" -INDICATES WALL THICKNESS IN INCHES.

INDICATES TOP OF FOOTING ON PLAN.

- "B" -INDICATES REINFORCING BAR SIZE.
- "C" -INDICATES REINFORCING SPACING IN INCHES. REINFORCING BAR SIZE AND SPACING IS FROM TOP OF FOUNDATION TO TOP OF WALL. PROVIDE DOWELS
- FROM FOOTING TO MATCH VERTICAL REINFORCING SIZE AND SPACING.
- PROVIDE ADDITIONAL REINFORCING AS SHOWN IN SECTION ON PLAN.
- P# \neg INDICATES COLUMN (OR PIER) ON PLAN. SEE SCHEDULE ON SHEET R-S4 . P - · INDICATES APPROXIMATE LOCATION OF PLUMBING UNDER SLAB ON PLAN. COORDINATE WITH MEP.



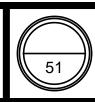
NORTH







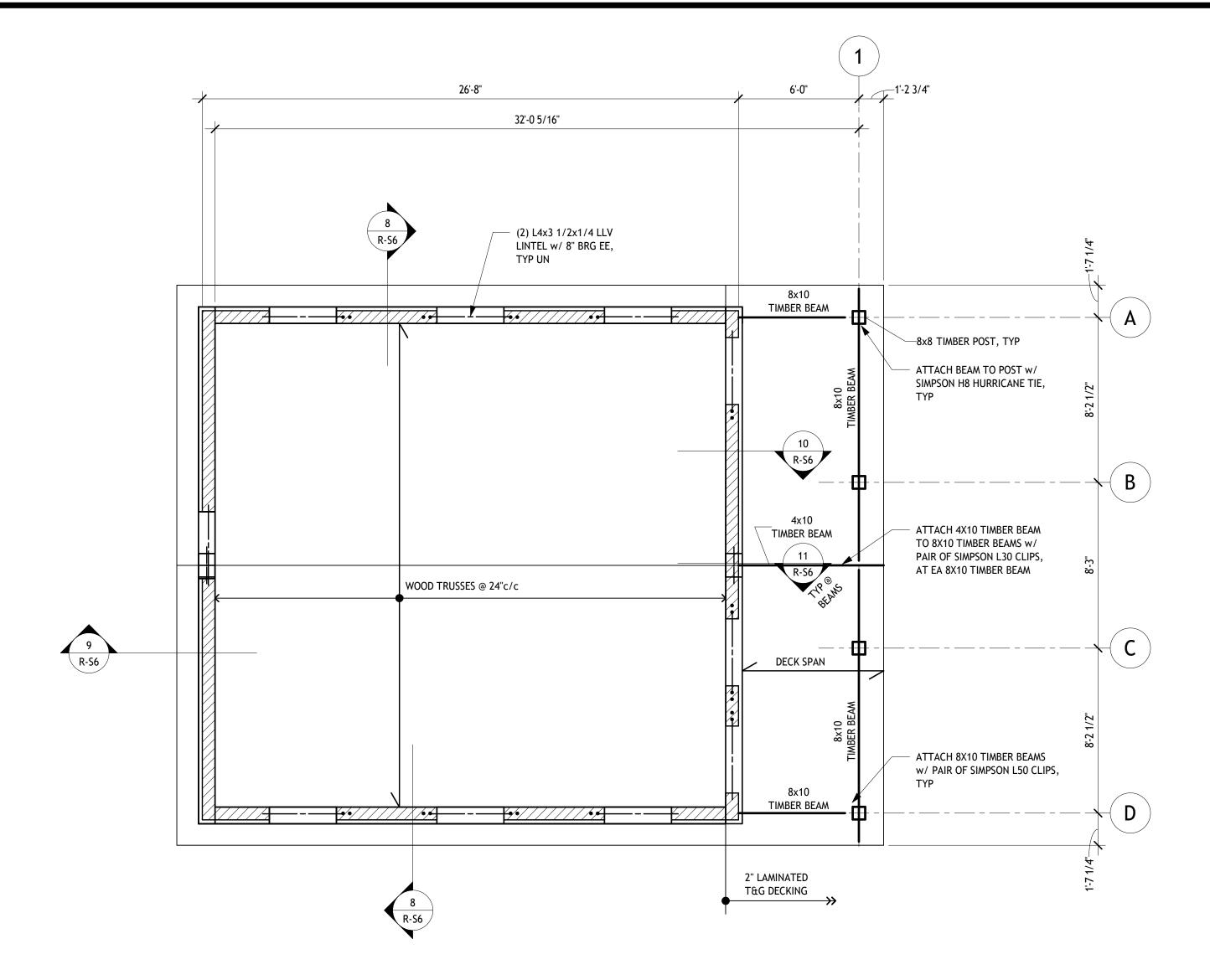
BARSCH



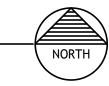








ROOF FRAMING PLAN



- 1. DESIGN LIVE LOADS: ROOF LIVE LOAD = 20 PSF (REDUCIBLE). SEE GENERAL STRUCTURAL NOTES FOR ROOF SNOW LOAD. 2. TOP OF TRUSS BEARING ELEVATION 108'-9.5" EXCEPT AS NOTED (\pm).
- 3. ROOF CONSTRUCTION: 19/32" (5/8" NOMINAL) APA RATED SHEATHING WITH EDGE CLIPS. PANEL INDEX 32/16. INTERIOR WITH EXTERIOR GLUE. EXPOSURE 1. INSTALL WITH 10d NAILS AT 6" c/c AT SUPPORTED PANEL EDGES AND 10d NAILS AT 12"c/c AT INTERMEDIATE SUPPORTS.
- 4. ROOF CONSTRUCTION: 2" NOMINAL LAMINATED WOOD DECK (SOUTHERN PINE) AT LOCATIONS NOTED ON PLAN WITH 1/2" PLYWOOD SHEATHING ON TOP. ATTACH LAMINATED WOOD DECK TO SUPPORTS w/ (2) #12x 2 1/2" SCREWS AT EA DECK MEMBER. ATTACH ADJACENT DECK MEMBERS TO ONE ANOTHER WITH 8d TOENAILS AT 30" ON CENTER. PANEL INDEX 32/16. INTERIOR WITH EXTERIOR GLUE. EXPOSURE 1. INSTALL WITH 10d NAILS AT 6" ON CENTER AT PANEL EDGES AND 10d NAILS AT 12" ON CENTER AT EACH LAMINATED DECK MEMBER.
- 5. VERIFY ALL WOOD TRUSS DIMENSIONS AND GEOMETRIES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO DESIGNING AND FABRICATING TRUSSES.
- 6. SPACE WOOD TRUSSES AT 2'-0" ON CENTER. TYPICAL UNLESS NOTED.
- 7. WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS: **BOTTOM CHORD** TOP CHORD

DEAD 10 PSF LIVE 20 PSF

9 PSF (NET UPLIFT)

- SEE PLAN FOR ADDITIONAL LOADS. TRUSSES SHALL BE DESIGNED FOR UNBALANCED AND DRIFTED SNOW IN ACCORDANCE WITH THE GOVERNING BUILDING CODE. LOADS SHALL BE COMBINED USING LOAD COMBINATIONS IN ACCORDANCE WITH THE GOVERNING BUILDING CODE. GIRDER TRUSSES SHALL BE DESIGNED FOR REACTIONS FROM SUPPORTED MEMBERS.
- 8. WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MAXIMUM DEFLECTION TOTAL LOAD = SPAN/240; LIVE LOAD = SPAN/360.
- 9. REFERENCES: GENERAL STRUCTURAL NOTES R-S2 .

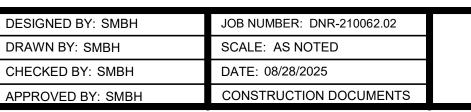




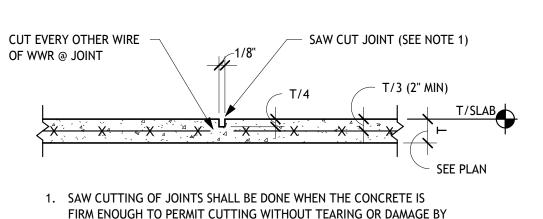






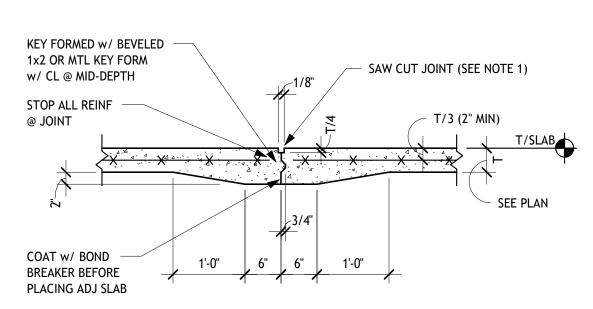






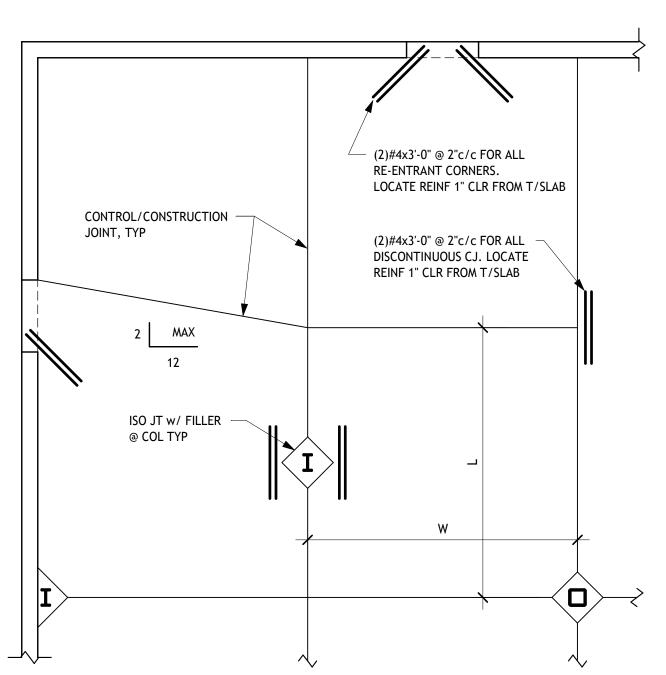
1. SAW CUTTING OF JOINTS SHALL BE DONE WHEN THE CONCRETE IS FIRM ENOUGH TO PERMIT CUTTING WITHOUT TEARING OR DAMAGE BY THE BLADE AND BEFORE RANDOM DRYING SHRINKAGE CRACKS CAN FORM, BUT NO MORE THAN 24 HOURS AFTER PLACING. FILL JOINT WITH JOINT SEALANT PER ARCH.





1. SAW CUTTING OF JOINTS SHALL BE DONE WHEN THE CONCRETE IS FIRM ENOUGH TO PERMIT CUTTING WITHOUT TEARING OR DAMAGE BY THE BLADE AND BEFORE RANDOM DRYING SHRINKAGE CRACKS CAN FORM, BUT NO MORE THAN 24 HOURS AFTER PLACING. FILL JOINT WITH JOINT SEALANT PER ARCH.



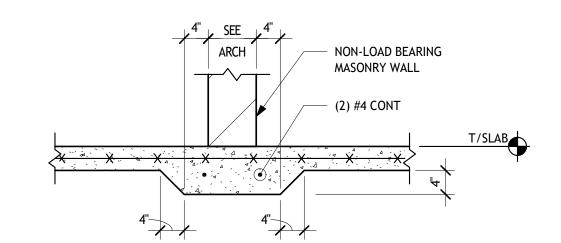


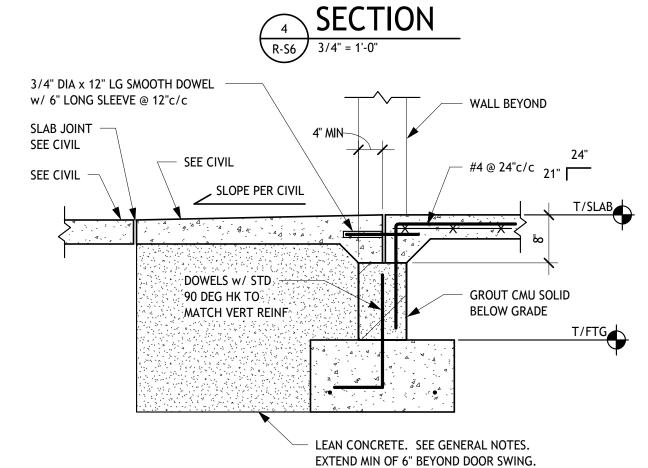
NOTE:

1. JOINTS SHALL DIVIDE SLAB INTO AREAS AS SQUARE AS POSSIBLY (1.25 TO 1) FOR MAXIMUM LXW RATIO.

2. MAXIMUM CONTROL/CONSTRUCTION JOINT SPACING SHALL BE 36 TIMES THE SLAB ON GRADE THICKNESS BUT SHALL NOT EXCEED 15'-0" FOR SLAB ON GRADE THICKNESS OF 5" OR GREATER.



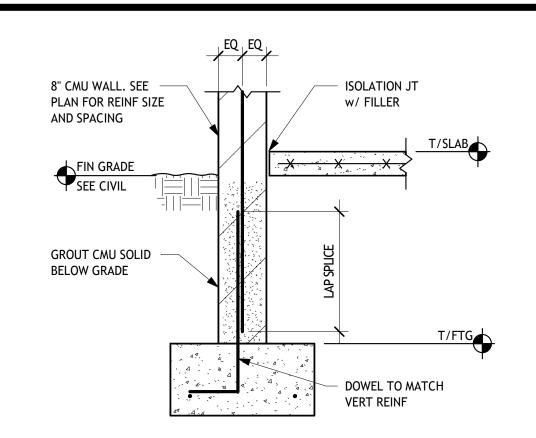




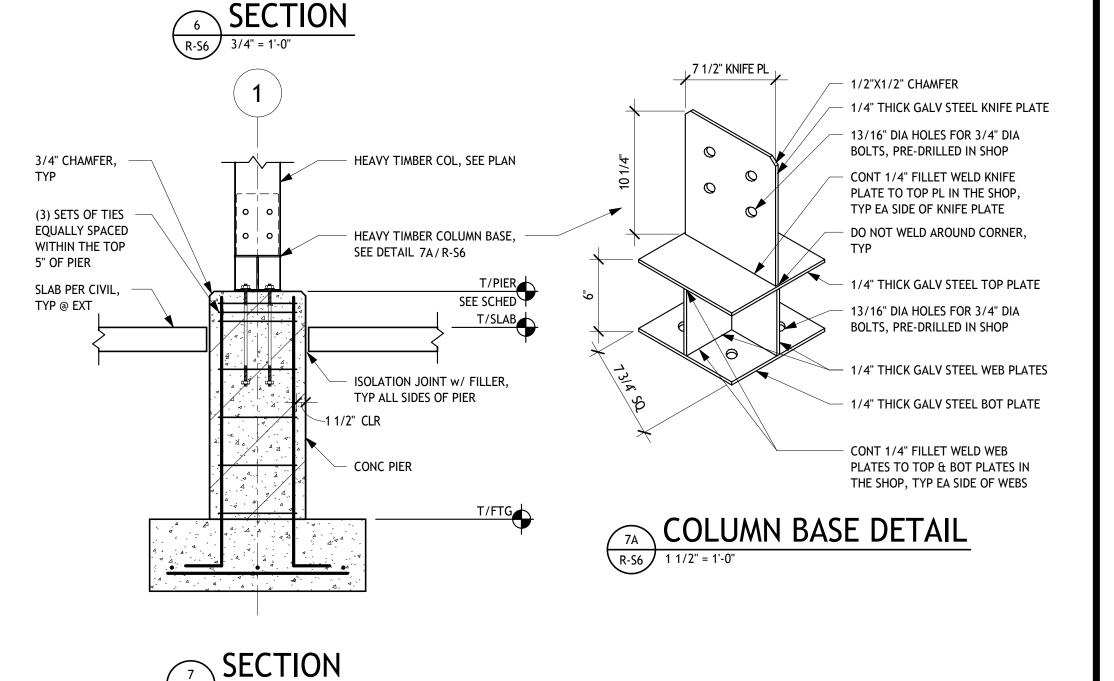


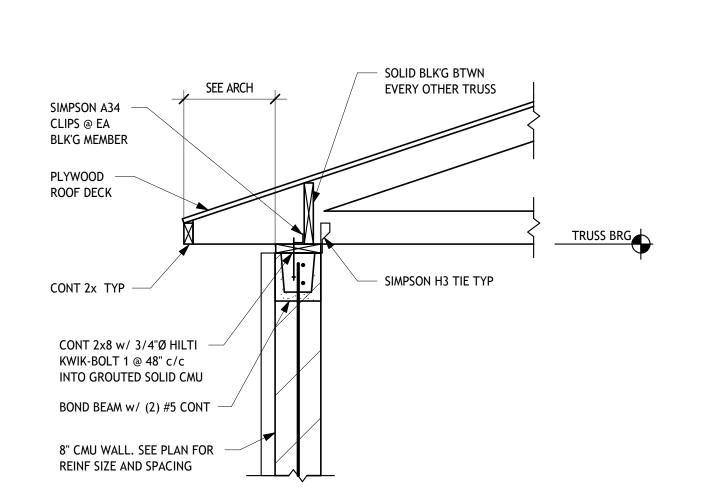
(IN/OUT OF PAGE)

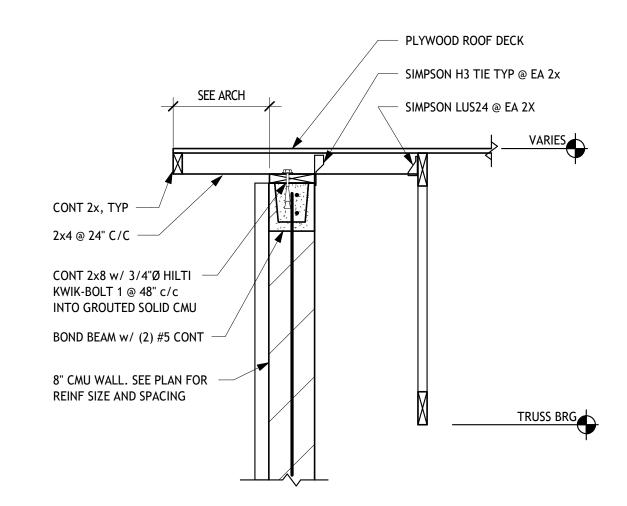
EXTEND TO EDGES OF DOOR OPENING

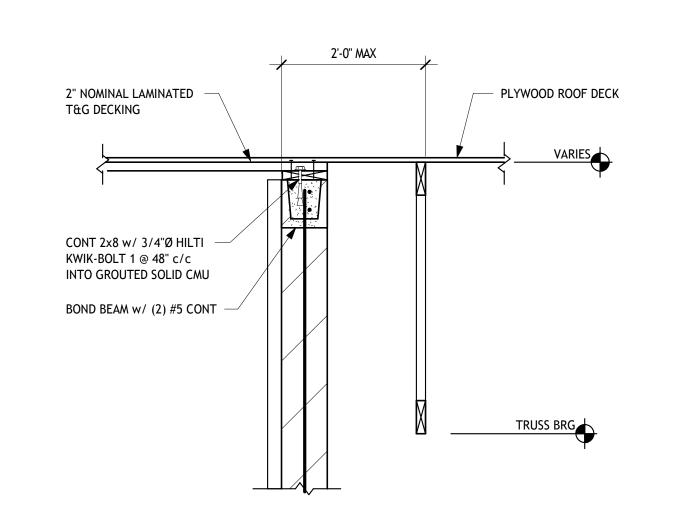


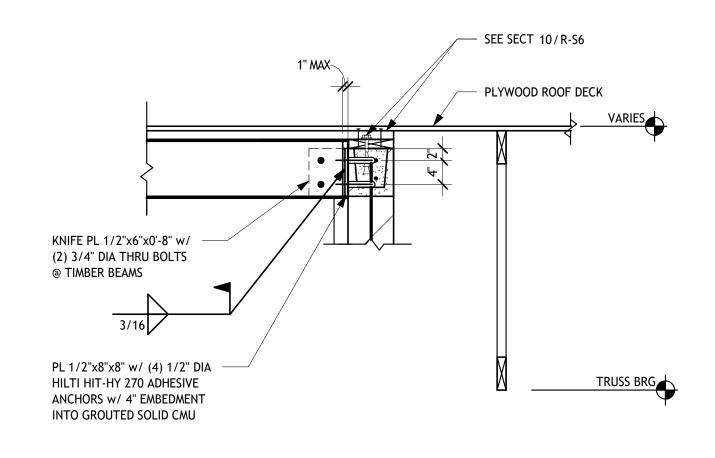
R-S6 3/4" = 1'-0"

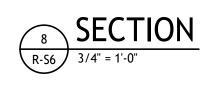






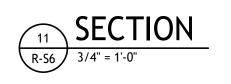


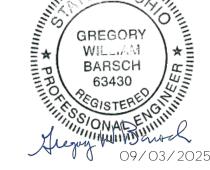














1166 Dublin Road Suite 200 Columbus, OH 43215-1038 614-481-9800 www.smbhinc.com smbh job no: 024-055.006



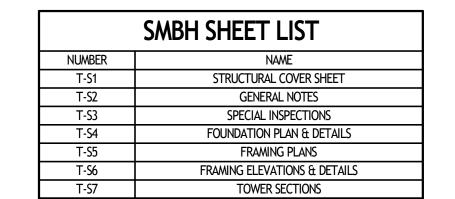


DESIGNED BY: SMBH	JOB NUMBER: DNR-210062.02	
DRAWN BY: SMBH	SCALE: AS NOTED	
CHECKED BY: SMBH	DATE: 08/28/2025	
APPROVED BY: SMBH	CONSTRUCTION DOCUMENTS	

ABBREVIATIONS

		ADD			
	NUMBER	FABR	FABRICATE (OR)	OC	ON CENTER (S)
	POUND (S)	FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER
/FT	POUNDS PER LINEAL FOOT	FFE	FINISHED FLOOR ELEVATION	OF	OUTSIDE FACE
L	CENTERLINE	FIN	FINISHED	OPNG	OPENING
L	PLATE	FL	FULL LENGTH	OPP	OPPOSITE (HAND)
	DIAMETER	FLR	FLOOR	OPT	OPTIONAL
		FND	FOUNDATION	ORIG	ORIGINAL
В	ANCHOR BOLT	FOM	FACE OF MASONRY	OSB	ORIENTED STRAND BOARD
DD'L	ADDITIONAL	FOS	FACE OF SHEATHING	OSL	OUT STANDING LEG
DJ	ADJACENT	FOV	FACE OF VENEER	OVHD	OVERHEAD
FF	ABOVE FINISHED FLOOR	FOW	FACE OF WALL	OVS	OVERSIZED ROUND HOLES
NC	ANCHOR	FS	FAR SIDE	043	CTENDICED MODITULI IULES
PPROX	APPROXIMATELY	rs FT	FEET, FOOT	P/C	PRECAST CONCRETE
	APPROXIMATELY ARCHITECT(URAL)	FTG	FOOTING	P/C PAF	
RCH	ANCHITECT (URAL)	ГΙ	IOUTING		POWDER ACTUATED FASTENER (S PRE-ENGINEERED METAL BUILDIN
DI	DACE DI ATT	C 1	CACE	PEMB	
PL	BASE PLATE	GA	GALVANIZED	PLF	POUND PER LINEAR FOOT
, BOT	BOTTOM	GALV	GALVANIZED	PLWD	PLYWOOD
LDG	BUILDING	GC	GENERAL CONTRACTOR	PNL	PANEL
LK	BLOCK	GEN	GENERAL	PREL	PRELIMINARY
LK'G	BLOCKING	GR	GRADE	PROJ	PROJECT
М	BEAM	GRND	GROUND	PSF	POUNDS PER SQUARE FOOT
RG	BEARING	GRTG	GRATING	PSI	POUNDS PER SQUARE INCH
RK	BRICK			PSL	PARALLEL STRAND LUMBER
S	BOTH SIDES	H, HORIZ	HORIZONTAL		
SMT	BASEMENT	HD	HEADED	QTY	QUANTITY
TWN	BETWEEN	HK	HOOK		
		HS	HIGH-STRENGTH	RD	ROOF DRAIN
/c	CENTER-TO-CENTER	HVAC	HEATING VENTILATING AIR CONDITIONING	REF	REFERENCE
В	CONCRETE BEAM	IIIAC		REINF	REINFORCE (ING), (ED)
F	CONTINUOUS END	ID	INSIDE DIAMETER (DIMENSION)	REQ	REQUIRE (MENTS)
- -			,	-	· · ·
FMF I	COLD FORMED METAL FRAMING	IF IN	INSIDE FACE	req'd Pev	REQUIRED
J	CONTROL JOINT	IN INT	INCH	REV	REVIS (ION), (ED)
LR	CLEAR	INT	INTERIOR, INTERMEDIATE	RF	ROOF
MU	CONCRETE MASONRY UNIT		IO.ST	RM RTI	ROOM
OL	COLUMN	JST 	JOIST	RTU	ROOF TOP UNIT
ONC	CONCRETE	JT	JOINT		
NNC	CONNECT (ION)			S	SOUTH
ONST	CONTRUCT (ION)	KP	KIP (1000 POUNDS)	SC	SLIP-CRITICAL
TNC	CONTINUOUS (ATION)	KSF	KIPS PER SQUARE FOOT	SCHED	SCHEDULE
ONTR	CONTRACTOR			SECT	SECTION
TR	CENTER	LAT	LATERAL	SHT	SHEET
W	CURTAIN WALL	LBS, #	POUNDS	SIM	SIMILAR
γ Υ	CUBIC YARDS	LG	LONG	SL	SLOPE (D)
-		Ш	LIVE LOAD	SP	SPACE (S), (ED)
A	DRILLED ANCHOR	LLH	LONG LEG HORIZONTAL	SPEC	SPECIFICATION (S)
A BL	DOUBLE	LLV	LONG LEG FIORIZONTAL LONG LEG VERTICAL	SPL	SPLICE
BLS -	DOUBLE TIES	LNTL	LINTEL	SQ	SQUARE STAINLESS STEEL
E 	DISCONTINUOUS END	LOC	LOCATION	SS	STAINLESS STEEL
ET	DETAIL	LSH	LONG SIDE HORIZONTAL	SSL	SHORT SLOTTED HOLES
A	DIAMETER	LSL	LONG SLOTTED HOLES	SSR	SHEAR STUD RAILS
AG	DIAGONAL	LSV	LONG SIDE VERTICAL	STA	STATION
М	DIMENSION	LVL	LAMINATED VENEER LUMBER	STD	STANDARD
-	DEAD LOAD	LW	LONG WAY	STIFF	STIFFENER
₹	DISTRIBUTION RIB			STL	STEEL
ΝG	DRAWING	MAS	MASONRY	STRUCT	STRUCTURE (AL)
ML	DOWEL	MATL	MATERIAL	SVC	SERVICE
		MAX	MAXIMUM	SW	SHORT WAY
	EAST	MBR	MEMBER	SYM	SYMMETRICAL
, EXTG	EXISTING	MECH	MECHANICAL		
, D. (0	EACH	MEZZ	MEZZANINE	Т	TOP
	EACH END	MFR	MANUFACTURE (R)	T&B	TOP AND BOTTOM
•	EACH FACE	MIN	MINIMUM	T(TOP OF
I	EXPANSION JOINT	MISC		TEMP	
ı			MISCELLANEOUS		TEMPERATURE, TEMPORARY
- -	ELEVATION ELEVATOR	MO	MASONRY OPENING	THD	THREADED THICK (NESS)
_EV	ELEVATOR	MPH	MILES PER HOUR	THK	THICK (NESS)
MBED	EMBEDDED (MENT)	MTL	METAL	TOS	TOP OF STEEL
NGR	ENGINEER			TOSL	TOP OF SLAB
OS	EDGE OF SLAB	N	NORTH	TOT	TOTAL
Q	EQUAL	N/A	NOT APPLICABLE	TYP	TYPICAL
5	EACH SIDE	NF	NEAR FACE		
V	EACH WAY	NIC	NOT IN CONTRACT	UN	UNLESS NOTED
(P	EXPANSION	NO, #	NUMBER	UNO	UNLESS NOTED OTHERWISE
ſΤ	EXTERIOR	NOM	NOMINAL		
		NS	NEAR SIDE	٧	VERTICAL
ΔB	FROM ADJACENT BEAM	NSH	NORMAL SLOTTED HOLES	VERT	VERTICAL
٠	. ASTEROPOLITE DEPIT	NTS	NOT TO SCALE	↑ LI\ I	TEITHIOTE
		CIN	ITOT TO JUALL	\A/	WEST
		-1-		W W/	
		0/0	OUT-TO-OUT	W/	WITH
				W/C	WATER/CEMENT RATIO
				W/0	WITHOUT
				WD	WOOD
				WL	WIND LOAD
				WP	WORK (ING) POINT
				WT	WEIGHT
				WWR	WELDED WIRE REINFORCING

GREAT COUNCIL OBSERVATION TOWER











DOUBLE EXTRA STRONG



DESIGNED BY: SMBH	JOB NUMBER: DNR-250004	
DRAWN BY: SMBH	SCALE: AS NOTED	
CHECKED BY: SMBH	DATE: 08/28/2025	
APPROVED BY: SMBH	CONSTRUCTION DOCUMENTS	

OBSERVATION TOWER, RESTROOM, AND MAINTENANCE GREENE COUNTY, OHIO

DESIGNED BY: Designer JOB NUMBER: DNR-250004 DRAWN BY: Author SCALE: AS NOTED CHECKED BY: Checker DATE: 08/28/2025 CONSTRUCTION DOCUMENTS APPROVED BY: Approve

1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATIONS AND THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN. 2. GOVERNING CODE:

OHIO BUILDING CODE - 2024 EDITION 3. SEE STRUCTURAL PLANS FOR DESIGN SOIL BEARING PRESSURE AND LIVE LOADS. LIVE LOADS REDUCED IN ACCORDANCE WITH THE GOVERNING CODE, IF APPLICABLE.

4. ROOF SNOW LOAD: GROUND SNOW LOAD (Pg) - 20 PSF SNOW EXPOSURE FACTOR (Ce) - 1.0 IMPORTANCE FACTOR (Is) - 1.0 THERMAL FACTOR (Ct) - 1.0 FLAT ROOF SNOW LOAD (Pf) - 14 PSF UNIFORM ROOF DESIGN SNOW LOAD - 20 PSF

5. WIND LOAD: - 107 MPH BASIC WIND SPEED ALLOWABLE WIND SPEED - 83 MPH RISK CATEGORY **EXPOSURE CATEGORY** - EXPOSURE C INTERNAL PRESSURE COEFFICIENT (G Cpi) - ±0.18

COMPONENTS AND CLADDING - SEE TABLE BELOW 6. SEISMIC LOAD: RISK CATEGORY IMPORTANCE FACTOR (Ie) - 1.0 MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss) - 0.14 MAPPED SPECTRAL RESPONSE ACCELERATION AT ONE-SECOND PERIOD (S1) - 0.07 SPECTRAL RESPONSE PARAMETER AT SHORT PERIOD (SDs) - 0.147 SPECTRAL RESPONSE PARAMETER AT ONE-SECOND PERIOD (SD1) - 0.110 SEISMIC DESIGN CATEGORY DESIGN BASE SHEAR LRFD - 40 KIP SEISMIC RESPONSE COEFFICIENT (Cs) - 0.049

BASIC SEISMIC FORCE RESISTING SYSTEM: H - STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS (R=3, Ω =3, Cd=3)

DESIGN BY EQUIVALENT LATERAL FORCE PROCEDURE. 7. MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL DRAWINGS.

8. IF EQUIPMENT SHIPPING OR OPERATING WEIGHT EXCEEDS VALUE SHOWN ON THESE DRAWINGS, DO NOT PLACE EQUIPMENT. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT.

9. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

10. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.

12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS ETC. WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND DRAWINGS OF ANY OTHER

13. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION DEAD LOAD APPLIED TO THE STRUCTURAL FRAMING.

14. THE ERECTION AND CONSTRUCTION SEQUENCES SHALL BE DEVELOPED BY THE CONTRACTOR TO ACCOUNT FOR THE EFFECTS OF THERMAL MOVEMENTS TO THE STRUCTURE. DETAILED EXPANSION JOINTS ON THESE DRAWINGS ARE DESIGNED FOR MOVEMENT OF A COMPLETED STRUCTURE.

15. DO NOT MODIFY, ALTER OR REPAIR ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL

16. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMISSION TO STRUCTURAL ENGINEER. 17. DEFERRED SUBMITTALS: THE FOLLOWING COMPONENTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR, LICENSED IN THE STATE OF THE PROJECT. DESIGN INFORMATION SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. SEE CONTRACT DOCUMENTS FOR DESIGN LOADS AND OTHER DESIGN CRITERIA

A. STEEL CONNECTIONS NOT SPECIFICALLY AND FULLY DETAILED ON THE STRUCTURAL DRAWINGS. B. STEEL STAIRS AND RAILINGS.

C. ERECTION PROCEDURES AND SEQUENCES.

D. STEEL CLADDING AND CONNECTIONS. 18. SEE SHEET T-S3 FOR SPECIAL INSPECTIONS.

COMPONENTS AND CLADDING

EX HEIGHT, H, 11 F	ND SPEED, V=107 A POSURE CATEGOR T (ENCLOSED BUIL PARAPET HT < 3'-0	Y C .DING; H< 60 FT)	
	ROOF		
	SUR	FACE PRESSURE (I	PSF)
AREA	10 sf	50 sf	100 sf
NEGATIVE ZONE 1	-27.7	-16.8	-10.0
NEGATIVE ZONE 2	-40.4	-27.7	-22.2
NEGATIVE ZONE 3	-48.0	-32.0	-25.1
POSITIVE ALL ZONES	10.0	10.0	10.0
OVERHANG ZONE 1 & 1'	-31.7	-24.5	-19.0
OVERHANG ZONE 2	-44.4	-34.9	-30.8
OVERHANG ZONE 3	-52.0	-35.5	-28.4
	WALLS		
	SUR	FACE PRESSURE (I	PSF)
WALL AREA	10 sf	100 sf	500 sf
NEGATIVE ZONE 4	-16.2	-14.0	-12.4

-20.0

15.0

-15.6

12.7

-12.4

11.2

NEGATIVE ZONE 5

POSITIVE ZONES 4 & 5

SEE ASCE7 FOR ZONE DEFINITIONS.

ALL WIND PRESSURES ARE ULTIMATE LOADS.

033000 - CAST-IN-PLACE CONCRETE

 SPECIFICATIONS AND STANDARDS: CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF BARS AND CONCRETE SHALL BE GOVERNED BY THE APPLICABLE **VERSION OF:**

A. ACI 301, ACI 315, AND ACI 318.

B. CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.

C. ACI 306 AND ACI 305 FOR COLD AND HOT WEATHER CONCRETING, RESPECTIVELY. THE CONTRACTOR SHALL AT ALL TIMES HAVE A COPY OF THE RELEVANT SPECIFICATIONS QUOTED ABOVE ON THE SITE AND THE SUPERVISORY PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH THE CONTENTS THEREOF.

2. CONTINGENCIES:

A. LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVEREXCAVATION OR SOFT SPOTS. 3. CONCRETE REQUIREMENTS AND LOCATION IN JOB:

LOCATION MAX W/C RATIO SPECIAL REQUIREMENTS 3000PSI FOOTINGS EXTERIOR CONCRETE 4500 PSI 0.45 6% +/- 1.5% AIR CONTENT STAIR PAN FILL 3000 PSI 0.50 3/8" MAX AGGREGATE LEAN CONCRETE 1500 PSI NO TESTS, SOFT SOIL REPLACE FLOWABLE FILL 85 PSI NO TESTS, UTILITY BACKFILL UNDER

SUBMIT CONCRETE MIXES FOR APPROVAL IN ACCORDANCE WITH ACI 301 BEFORE PLACING ANY CONCRETE. ALL MIXES SHALL INCLUDE EITHER ASTM C150 PORTLAND CEMENT OR ASTM C595 PORTLAND-LIMESTONE CEMENT AND ALL AGGREGATE SHALL CONFORM TO ASTM C33. CONCRETE TESTING PER ACI 318 SECTION 26.12

4. REINFORCING REQUIREMENTS:

A. BARS: ASTM A615, GRADE 60.

B. WELDED WIRE REINFORCING: ASTM A1064.

A. DOWELS IN FOOTINGS TO MATCH VERTICAL REINFORCING IN CONCRETE WALLS. B. BEND ALL BARS 24 DIAMETERS AROUND CORNERS OF FOOTINGS. BARS AT THE INSIDE FACE OF THE CORNER SHALL BE

CONTINUED ACROSS TO THE OUTSIDE AND THEN BENT.

A. IF NO OTHER REINFORCING IS SHOWN IN A SLAB ON GRADE, PROVIDE 6x6-W1.4xW1.4 WWR AT THICKNESS/3 FROM TOP OF SLAB, UNLESS NOTED OTHERWISE.

B. PROVIDE (2) #4x3'-0" DIAGONAL REINF AT 2" SPACING IN TOP THIRD OF SLAB (1" MIN CLR) AT ALL RE-ENTRANT CORNERS IN SLABS ON GRADE.

C. PROVIDE (2) #4x3'-0" REINF AT 2" SPACING IN TOP THIRD OF SLAB (1" MIN CLR) PERPENDICULAR TO JOINTS THAT TERMINATE AT A PARTICULAR JOINT IN SLABS ON GRADE.

A. NO SPLICES IN BEAM, JOIST, OR SLAB STEEL UNLESS SPECIFICALLY SHOWN OTHERWISE.

B. TENSION SPLICES, WHEN PERMITTED - LAP IN ACCORDANCE WITH THE ACI CODE AND THE TABLE SHOWN BELOW.

LAP SPLICE SCHEDULE: BAR SIZE LAP CLASS TOP BAR (f'c<4000 PSI) TOP BAR (f'c≥4000 PSI) OTHER BAR (f'c<4000 PSI) OTHER BAR (f'c≥4000 PSI)

#3	A	LL	17	17	13
	В	28"	24"	22"	19"
#4	Α	29"	25"	22"	19"
	В	37"	32"	29"	25"
#5	Α	36"	31"	28"	24"
	В	47"	40"	36"	31"
#6	Α	43"	37"	33"	29"
	В	56"	48"	43"	37"
#7	Α	62"	54"	48"	42"
	В	81"	70"	62"	54"
#8	Α	71"	62"	55"	47"
	В	93"	80"	71"	62"
#9	Α	80"	70"	62"	54"
	В	104"	91"	80"	70"
#10	Α	91"	78"	70"	60"
	В	118"	102"	91"	78"
#11	Α	100"	87"	77"	67"
	В	130"	113"	100"	87"

a. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW THEM.

b. ALL LAP SPLICES SHALL BE CLASS B UNLESS OTHERWISE NOTED.

c. VALUES ARE NORMAL WEIGHT CONCRETE NON-EPOXY COATED BARS.

C. LAP WELDED WIRE REINFORCING 1 SPACE + 2" AT ALL EDGES AND ENDS OF SHEETS.

A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK. IF ANY OPENING NOT SHOWN ON THE PLAN IS REQUIRED, APPROVAL MUST BE SECURED FROM THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.

9. COVER:

A. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3".

 FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2" FOR #5 OR SMALLER, 2" FOR #6 OR LARGER. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: WALLS & SLABS: 3/4", BEAMS & COLUMNS (TO TIES OR

10. MISCELLANEOUS:

A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. B. SUBMIT STEEL REINFORCING SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT PRIOR TO FABRICATION.

051200 - STRUCTURAL STEEL FRAMING

1. SPECIFICATIONS AND STANDARDS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY:

A. ANSI/AISC 360 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. ASD

B. AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

 C. AWS STANDARD WELDING SYMBOLS. D. AWS D1.1 STRUCTURAL WELDING CODE - STEEL. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.

E. RCSC - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

2. TESTING: A. WELDS: VISUAL TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY ON ALL WELDS. INADEQUATE

WELDS SHALL BE STRENGTHENED OR CUT OUT AND REPLACED AS DIRECTED. B. STRUCTURAL STEEL: PROVIDE MILL REPORTS FOR PROPERLY IDENTIFIED MATERIALS ON REQUEST.

C. A325 AND A490 BOLTS: PROVIDE BOLT INSPECTION AS DETAILED IN SECTION 9 OF SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS.

MATERIALS: A. "W" SHAPES: ASTM A992 Fy = 50 KSI, ASTM A572 Fy = 50 KSI.

B. CHANNELS: ASTM A36.

C. ANGLES, PLATES AND BARS: ASTM A36.

D. RECTANGULAR HOLLOW STRUCTURAL SECTIONS: ASTM A500 GR C, Fy = 50 KSI, ASTM A1085, Fy = 50 KSI.

E. WELDING ELECTRODES: AWS A5.1 OR A5.5 SERIES E70. F. BOLTS: ASTM F3125 GRADE A325, TYPE I, HEAVY-HEX STEEL STRUCTURAL BOLTS.

G. ANCHOR RODS: ASTM F1554 GRADE 36.

H. NUTS AND WASHERS: ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.

I. PAINT AND PROTECTION - NONE EXCEPT AS NOTED BELOW:

INTERIOR MEMBERS EXPOSED TO VIEW IN THE FINISHED STRUCTURE - PRIME COAT, TOUCH UP AFTER ERECTION.

 MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE - GALVANIZED PER ASTM A123 AFTER FABRICATION. J. SHRINKAGE-RESISTANT GROUT: ASTM C1107, NON-METALLIC AGGREGATE, NON-CORROSIVE, NON-STAINING. F'C= 5,000 PSI

4. CONNECTION REQUIREMENTS: A. DESIGN CONNECTIONS FOR VERTICAL REACTIONS SHOWN ON DRAWINGS OR FOR FULL CAPACITY OF MEMBER WHERE NO

REACTION IS SHOWN.

B. DESIGN MOMENT BEAM CONNECTIONS FOR VALUES SHOWN OR FOR FULL MOMENT CAPACITY OF MEMBER. C. CONNECTIONS SHOWN AND DETAILED ON THE DRAWINGS MAY BE REDESIGNED BY THE STRUCTURAL STEEL CONTRACTOR FOR EQUAL FORCES PROVIDED THE SAME ARRANGEMENT OF MEMBERS IS USED AND THE OVERALL SIZE OF THE CONNECTION DOES

NOT EXCEED THAT OF THE CONNECTION DETAILED. D. OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR TYPES OF CONNECTIONS BEFORE FABRICATION.

E. ALL BOLTED CONNECTIONS TO BE SHEAR/BEARING TYPE WITH BOLTS IN THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE.

MISCELLANEOUS REQUIREMENTS:

A. ROUND PENETRATIONS ARE PERMITTED IN THE WEB OF WIDE-FLANGE MEMBERS THAT MEET ALL OF THE FOLLOWING CRITERIA. CONTACT SMBH FOR PENETRATIONS THAT DO NOT MEET THESE CRITERIA.

OPENING DIAMETER IS LESS THAN OR EQUAL TO 0.15 TIMES THE DEPTH OF THE BEAM.

EDGE OF OPENING IS A MINIMUM OF 0.15 TIMES THE DEPTH OF THE BEAM FROM THE TOP AND BOTTOM OF THE BEAM.

OPENINGS ARE NOT PERMITTED WITHIN 1.0 TIMES THE DEPTH OF THE BEAM AWAY FROM THE ENDS.

 OPENINGS ARE NOT PERMITTED WITHIN 0.5 TIMES THE DEPTH OF THE BEAM AWAY FROM AN INFILL BEAM CONNECTION. EDGES OF ADJACENT OPENINGS ARE AT LEAST 2X THE LARGEST OPENING DIAMETER APART.

B. STEEL FRAMING INTENDED TO SUPPORT EQUIPMENT OR MECHANICAL/ELECTRICAL/PLUMBING OPENINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF STEEL

ANGLE FRAMES FOR OPENINGS THAT ARE SHOWN ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS. C. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE OR 4" OF MASONRY.

D. UNLESS NOTED OTHERWISE, FIREPROOFING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRERATING REQUIREMENTS, METHODS AND MATERIALS.

E. SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

061000 - ROUGH CARPENTRY

1. SPECIFICATIONS AND STANDARDS: A. DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION RECOMMENDED PRACTICE BY THE AMERICAN FOREST AND PAPER ASSOCIATION.

MATERIALS: A. ONLY USE DIMENSIONAL LUMBER - SPRUCE-PINE-FIR #1/#2 OR BETTER: E = 1,400,000 PSI. Fb = 875 PSI. Fv = 135 PSI. Fc = 1150 PSI. DIMENSIONAL LUMBER FOR PRESSURE TREATED AND FRT STRESSES - BEFORE TREATMENT - SOUTHERN PINE #1 OR

BETTER: E = 1,600,000 PSI. Fb = 1250 PSI (2x8). Fy = 175 PSI. Fc = 1500 PSI (2x8).

B. NAILS: COMMON WIRE NAILS: ASTM F1667.

C. STEEL CONNECTION MATERIALS: ASTM A36. D. BOLTS: ASTM A307 (SAE J429 Grade 1 EQUIV Fyb = 45,000 PSI = Fy/2+Fu/2) WITH TWO WASHERS.

E. WOOD SCREWS: ASME B18.6.1.

F. LAG BOLTS: ASME B18.2.1.

G. METAL FRAMING ANCHORS AND CONNECTORS: 16 OR 18 GA. GALVANIZED STEEL (ASTM A653, G60) SIZED FOR FULL LOAD CARRYING CAPACITY OF SUPPORTED MEMBER. NOMENCLATURE BASED ON ANCHORS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY INC.

H. PRESERVATIVE TREATMENT

AWPA U1.

PRESSURE-TREAT ABOVE-GROUND ITEMS WITH WATER-BORNE PRESERVATIVES, CATEGORY UC3b.

 STEEL FASTENERS AND CONNECTION MATERIALS IN CONTACT WITH PRESERVATIVE TREATED MATERIAL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153.

3. CONSTRUCTION REQUIREMENTS: MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS.

B. CONNECT ALL FRAMING SECURELY TOGETHER WITH NAILS, SPIKES, OR FRAMING ANGLES.

C. BRIDGING FOR FLOOR JOIST: NOT LESS THAN ONE LINE FOR EACH EIGHT FEET OF SPAN FOR MEMBERS 2x10 AND DEEPER.



PART 1: SCHEDULE OF SPECIAL INSPECTIONS
STATEMENT OF SPECIAL INSPECTIONS
1. SPECIAL INSPECTION FREQUENCY DEFINITIONS:

A. CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

B. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

PART I: S	CHEDULE OF SPECIAL	INSPECTIONS		
IBC	1705.2.1 STRUCTURA	L STEEL		
	FREQUENCY O	F INSPECTION	REFERENCE FO	OR CRITERIA
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC SECTION
1. LISTED IN AISC 360, CHAPTER N, PARAGRAPH 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS	EACH SUBMITTAL	-	AISC 360 N3.2	
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL	-	Х		
3. VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS AND SUBSEQUENT TO GALVANIZING	-	Х	AISC 360	1705.2
4. EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS)	-	Х	AISC 300	
5. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	-	Х		
6. STRUCTURAL STEEL WELDING:	1			1
A. INSPECTION TASKS PRIOR TO WELDING			AIGG 240 TABLE	

A. INSPECTION TASKS PRIOR TO WELDING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	OBSERVE/PERFORM	AISC 360 TABLE N5.4-1	
B. INSPECTION TASKS DURING WELDING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	OBSERVE/PERFORM	AISC 360 TABLE N5.4-2	1705.2.1
C. INSPECTION TASKS AFTER WELDING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN AISC 360, TABLE N5.4-3)	OBSERVE/PERFORM	AISC 360 TABLE N5.4-3	

7. NONDESTRUCTIVE TESTING (NDT) OF WELDED JO	INTS:		
A. UT TESTING ON ALL BUTT, T- & CORNER JOINTS IN MATERIALS 5/16" THICK OR GREATER (RISK CATEGORY III OR IV ONLY)	-	AISC 360 N5.5B	
B. UT TESTING ON 10% OF BUTT, T- & CORNER JOINTS IN MATERIAL 5/16" THICK OR GRATER (RISK CATEGORY II ONLY)	AS NOTED		1705.2.1
C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPX 3, TABLE A-3.1	AS NOTED	AISC 360 N5.5C	
D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT	VERIFY REPORTS	AISC 360 N5.5G	

A. INSPECTION TASKS PRIOR TO BOLTING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN AISC 360, TABLE N5.6-1)	OBSERVE/PERFORM	AISC 360 TABLE N5.6-1	
B. INSPECTION TASKS DURING BOLTING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN AISC 360, TABLE N5.6-2)	OBSERVE	AISC 360 TABLE N5.6-2	1705.2.1
C. INSPECTION TASKS AFTER BOLTING OF STRUCTURAL STEEL (PERFORM QA TASKS LISTED IN AISC 360, TABLE N5.6-3)	PERFORM	AISC 360 TABLE N5.6-3	

9. WHERE APPLICABLE, SEE SECTION 1705.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

10. SEE AISC 360, APPENDIX N, FOR DEFINITIONS OF OBSERVE AND PERFORM.

	FREQUENCY OF	INSPECTION	REFERENCE FOR C	
\	-		REFERENCE FOR C	
VERIFICATION AND INSPECTION 1. INSPECTION OF REINFORCING STEEL,	CONTINUOUS	PERIODIC	STANDARDS A ACI 318 CH. 20,	
INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	25.2, 25.3, 26.6.1-26.6.3	
2. INSPECTION OF REINFORCING STEEL WELDING		I		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	N/A	AWS D1.4 ACI 318 26.13.1.4	
B. INSPECT WELDING OF REINFORCEMENT FOR SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS	N/A	-	AWS D1.4 ACI 318 26.13.3	
C. INSPECT WELDED REINFORCEMENT SPLICES	N/A	-	-	
D. INSPECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS	N/A	-	-	
E. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	N/A	AWS D1.4 ACI 318 26.13.3	
F. INSPECT ALL OTHER WELDS.	-	N/A	AWS D1.4 ACI 318 26.13.3	
3. INSPECTION OF ANCHORS CAST IN CONCRETE	-	Х	ACI 318 26.13.3.3	
4. INSPECTION OF ANCHORS POST-INSTALLED IN HA	RDENED CONCRETE A	MEMBERS	В.	
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318 26.13.3.2	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	-	Х	ACI 318 26.13.3	
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	Х	ACI 318 CH. 19, 26.4.3, 26.4.4	
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	TRENGTH TESTS, NTENT TESTS, X -		ASTM C31 ASTM C172 ACI 318 26.5, 26.12	
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318 26.5	
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318 26.5.3 - 26.5.5	
9. INSPECTION OF PRESTRESSED CONCRETE:		l		
A. APPLICATION OF PRESTRESSING FORCES.	N/A			
B. GROUTING OF BONDED PRESRESSING TENDONS	N/A	_	ACI 318 26.10	
10. INSPECTION OF ERECTION OF PRECAST CONCRETE MEMBERS	-	N/A	ACI 318 26.8	
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECT HIGH DEFORMABILITY (MDE OR HDE) IN STRUCTURE INSPECT SUCH CONNECTION AND REINFORCEMENT I	S ASSIGNED TO SEISM			
A. INSTALLATION OF THE EMBEDDED PARTS	N/A	-	ACI 318 26.13.1.3 ACI 550.5	
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	N/A	-	ACI 318 26.13.1.3 ACI 550.5	
C. COMPLETION OF CONNECTIONS IN THE FIELD	N/A	-	ACI 318 26.13.1.3 ACI 550.5	
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	-	N/A	ACI 318 26.13.1.3	
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	N/A	ACI 318 26.11.2	
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	Х	ACI 318 26.11.1.2(b)	
A. WHERE APPLICABLE, SEE SECTION 1705.13, S	PECIAL INSPECTIONS	FOR SEISMIC RE	SISTANCE.	

PART I: SCHEDULE OF SPE	CIAL INSPECTIONS	
IBC 1705.6 REQUIRED SPECIAL INSPE	CTIONS AND TESTS OF SOILS	
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY SITE HAS BEEN PREPARED PROPERLY.		X

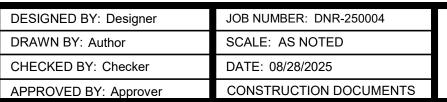




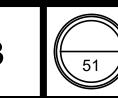


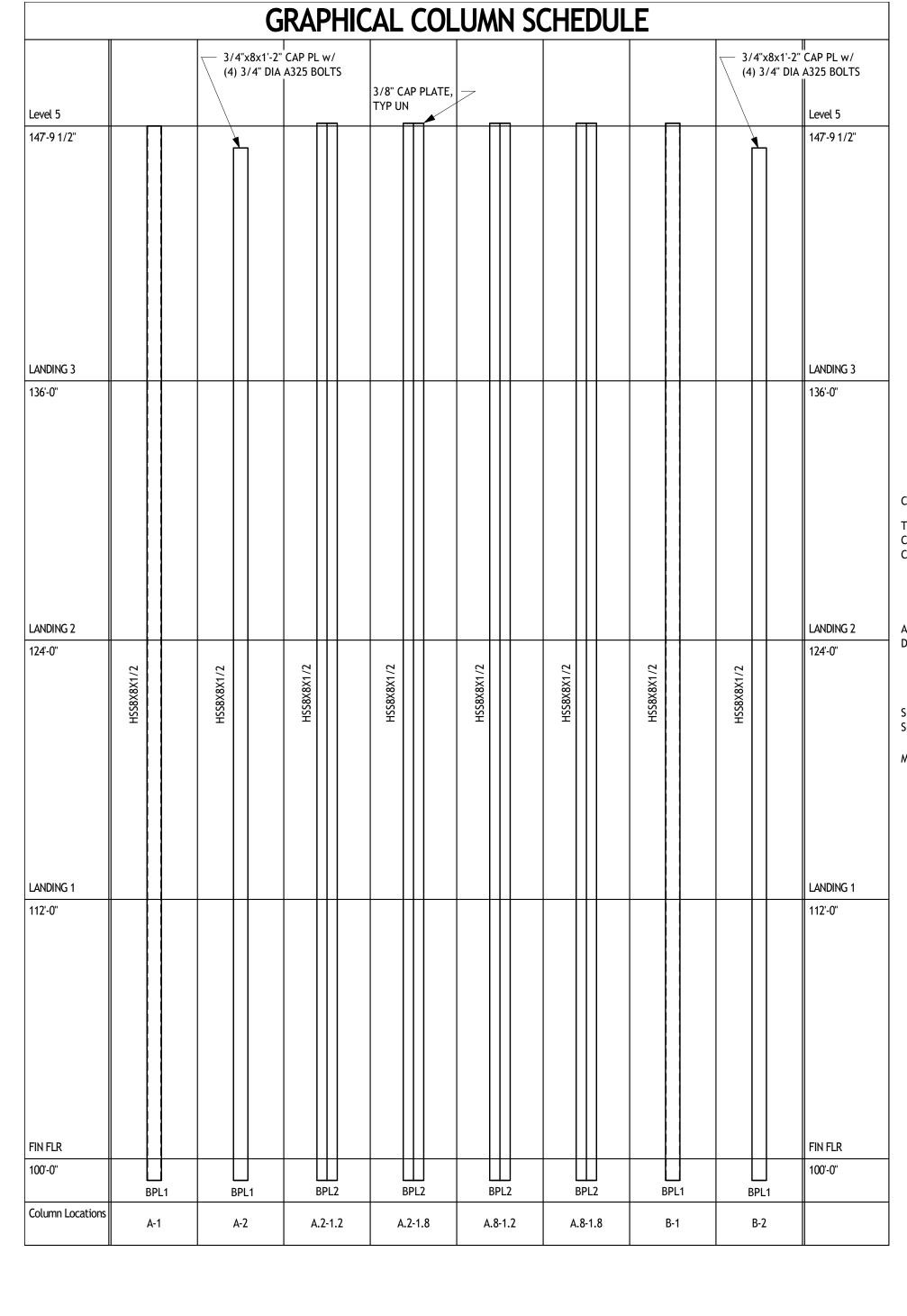


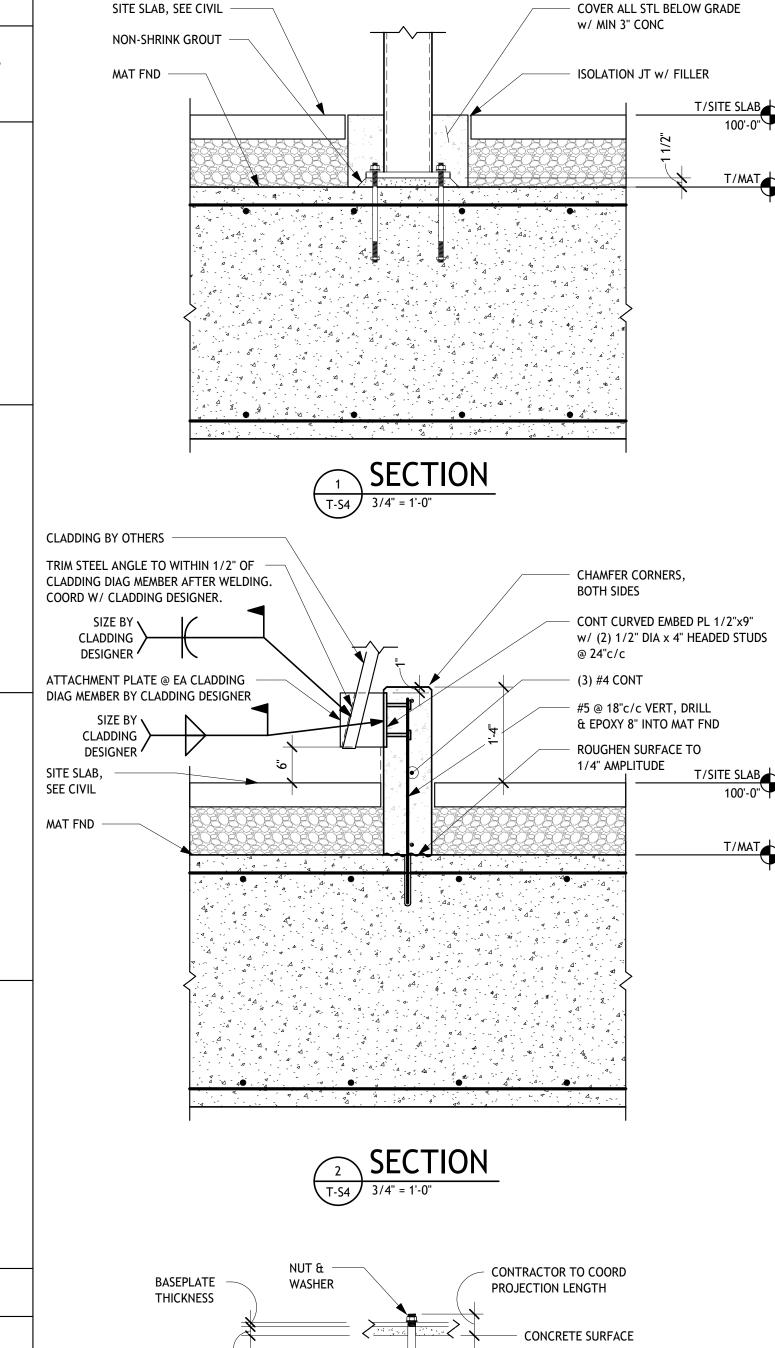








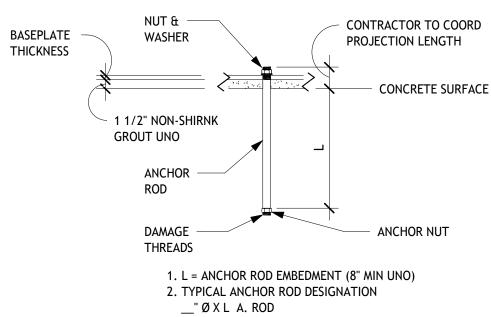




T/SITE SLAB

T/SITE SLAB

T/MAT



TYPICAL ANCHOR ROD DETAIL

BASE PLATE SCHEDULE							
MARK BASE PLATE SIZE ANCHOR BOLTS BASE PLATE TYPE							
BPL1	1"x14"x1'-2"	(4) 3/4" DIA x1'-4"	TYPE 1				
BPL2	1 3/4"x26"x2'-2"	(12) 1" DIA x1'-6"	TYPE 2				

FOUNDATION PLAN

COF CIRCLE

- 1. VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
- 2. TOP OF MAT ELEVATION 99'-0" EXCEPT AS NOTED. SEE CIVIL DRAWINGS FOR REFERENCE SITE ELEVATION. 3. DESIGN SOIL BEARING PRESSURE 2,000 PSF. ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE DESIGN BEARING CAPACITY SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY
- SPECIALIZING IN SOILS INVESTIGATIONS. GEOTECHNICAL INFORMATION INCLUDED IN THE CONSTRUCTION DOCUMENTS WAS OBTAINED FROM A REPORT ISSUED BY CTL ENGINEERING, PROJECT NUMBER 25050027COL, DATED JUNE 9, 2025...
- 4. ELEVATIONS SHOWN ON PLAN ARE TOP OF THE FOOTING OR SLAB. 5. REFERENCE: GENERAL STRUCTURAL NOTES - T-S2 ; COLUMN SCHEDULE - T-S4
- 6. SYMBOL LEGEND:

INDICATES TOP OF FOOTING ON PLAN.

INDICATES MAT FOUNDATION. SEE SCHEDULE ON SHEET T-S4

INDICATES COLUMN ON PLAN. SEE SCHEDULE ON SHEET T-S4

FOOTING SCHEDULE - MAT FOUNDATIONS								
		SIZE				<u> </u>		
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING	REMARKS	=*(
M1	32'-0"	32'-0"	3'-6"	#9 @ 10" c/c EA WAY T&B		= p		



1166 Dublin Road Suite 200 Columbus, OH 43215-1038 614-481-9800

COLUMN BASE PLATE DETAILS

TYPE I





DESIGNED BY: SMBH	JOB NUMBER: DNR-250004	
DRAWN BY: SMBH	SCALE: AS NOTED	
CHECKED BY: SMBH	DATE: 08/28/2025	
APPROVED BY: SMBH	CONSTRUCTION DOCUMENTS	



T-S4

♦ OF CIRCLE

2 T-S4

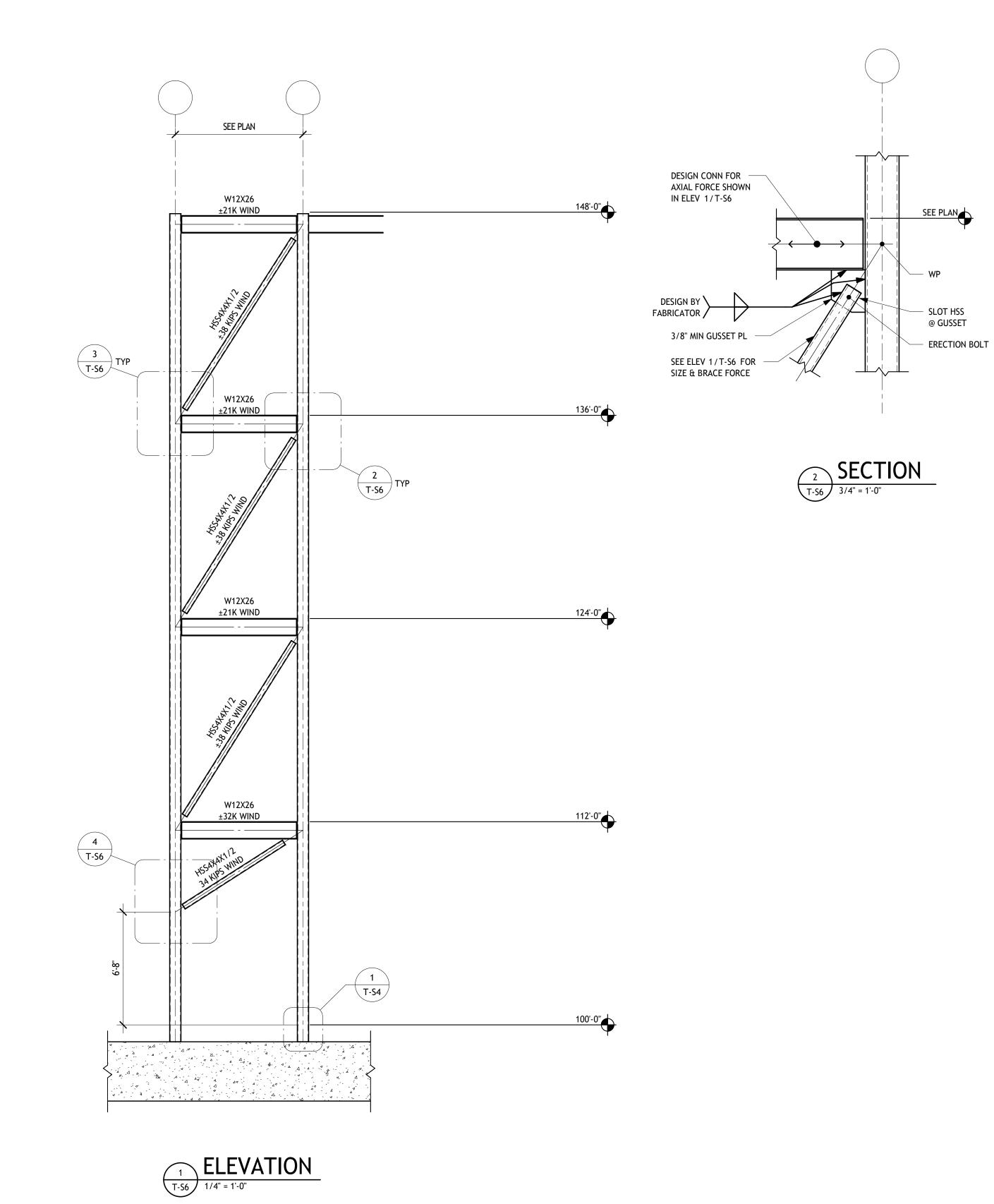
8" CURB, TYP

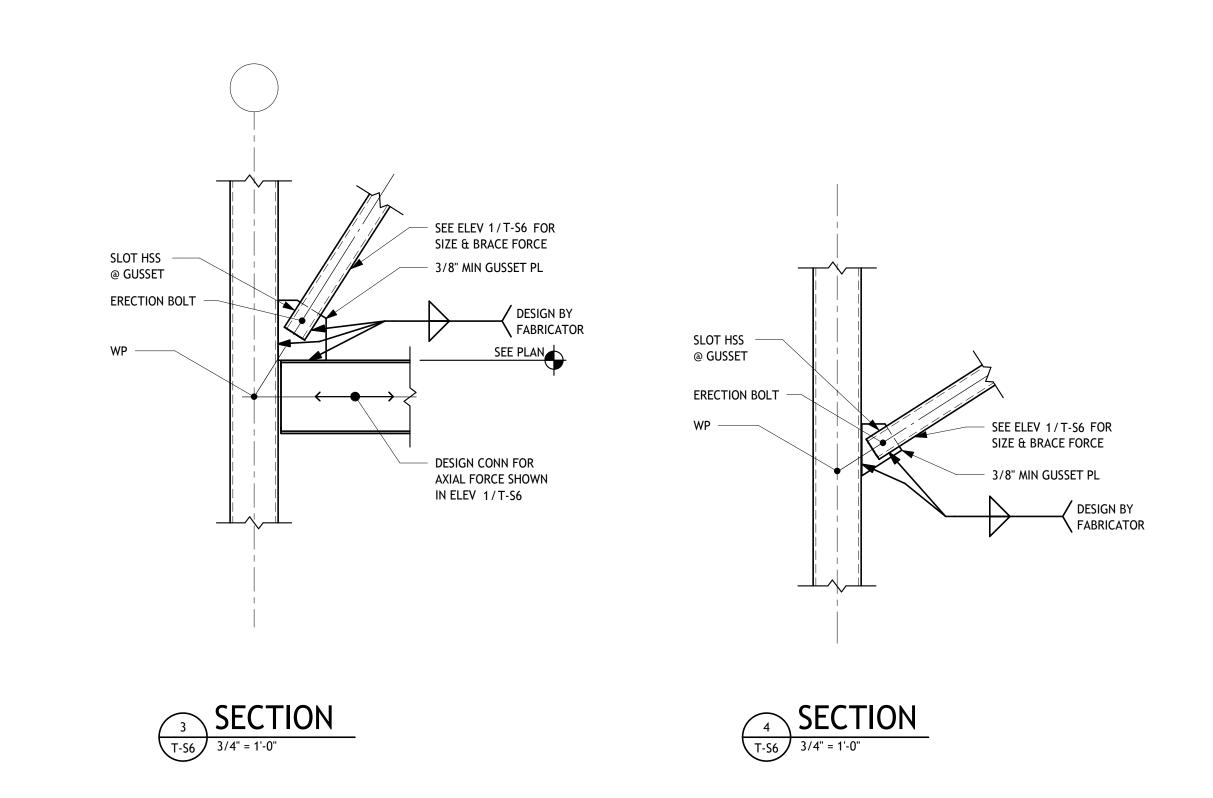


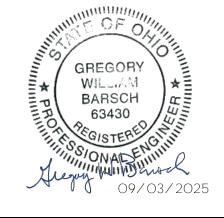




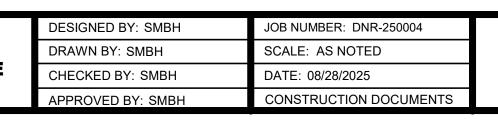
DESIGNED BY: SMBH	JOB NUMBER: DNR-250004	
DRAWN BY: SMBH	SCALE: AS NOTED	
CHECKED BY: SMBH	DATE: 08/28/2025	
APPROVED BY: SMBH	CONSTRUCTION DOCUMENTS	



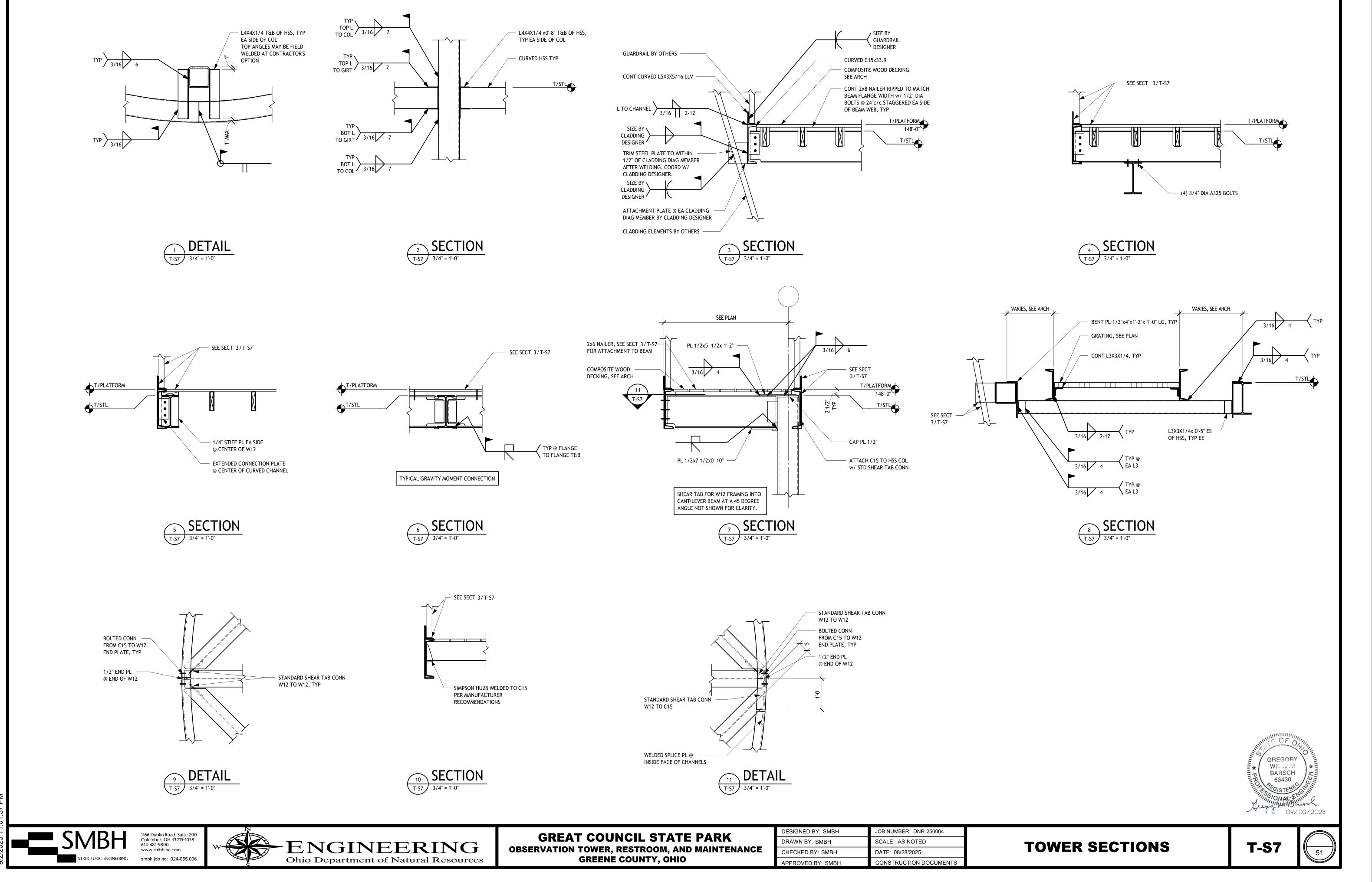












	ABBREVIATIONS
NOTE: NOT AL	L ABBREVIATIONS MAY BE USED.
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	COMPRESSED AIR (SHOP AIR)
ABV	ABOVE
AE	ANESTHESIA EVACUATION
AFF	ABOVE FINISHED FLOOR
AMP	AMPERE
APPROX	APPROXIMATE
AR	ARGON
ARCH	ARCHITECT
AUTO	AUTOMATIC
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
ВОР	BOTTOM OF PIPE
BT	ватнтив
CAP	CAPACITY
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CONN	CONNECTION OR CONNECT
CONT	CONTINUATION
CS	CLINIC SINK
CU FT	CUBIC FEET
CU IN	CUBIC INCH
D	DRAIN
DEPT	DEPARTMENT
DIA	DIAMETER
DI	DEIONIZED WATER
DN	DOWN
DW	DISTILLED WATER
DWG	DRAWING
Е	EMERGENCY FIXTURE
EL	
	ELEVATION
EQUIP	ELEVATION EQUIPMENT
EQUIP EWC	
	EQUIPMENT
EWC	EQUIPMENT ELECTRIC WATER COOLER
EWC EXH	EQUIPMENT ELECTRIC WATER COOLER EXHAUST
EWC EXH EXP	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION
EWC EXH EXP EXIST	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING
EWC EXH EXP EXIST °F	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT
EWC EXH EXP EXIST °F FD	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN
EWC EXH EXP EXIST °F FD FIN FL EL	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION
EWC EXH EXP EXIST °F FD FIN FL EL FOD	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL RETURN
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO FOR FOS	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL RETURN FUEL OIL SUPPLY
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO FOR FOS FOV	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL RETURN FUEL OIL SUPPLY FUEL OIL TANK VENT
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO FOR FOS FOV FT	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL SUPPLY FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO FOR FOS FOV FT GA	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET GAUGE
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO FOR FOS FOV FT GA GAL	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL RETURN FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO FOR FOS FOV FT GA GAL GPD	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL SUPPLY FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS GALLONS PER DAY
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOO FOR FOS GA GAL GPD GPH	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL SUPPLY FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS GALLONS PER DAY GALLONS PER HOUR
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOR FOS FOV FT GA GAL GPD GPH GPM	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL RETURN FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS GALLONS PER DAY GALLONS PER MINUTE
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOO FOR FOS GA GAL GPD GPH GPM H	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL RETURN FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS GALLONS PER DAY GALLONS PER MINUTE HYDROGEN
EWC EXH EXP EXIST FF FD FIN FL EL FOD FOF FOG FOR FOS FOV FT GA GAL GPD GPH GPM H HD	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE HYDROGEN HEAD
EWC EXH EXP EXIST °F FD FIN FL EL FOD FOF FOG FOG FOO FOR FOS GAL GPD GPH GPM H HD HE	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS PER HOUR GALLONS PER MINUTE HYDROGEN HEAD HELIUM
EWC EXH EXP EXIST FF FD FIN FL EL FOD FOF FOG FOR FOS FOV FT GA GAL GPD GPH GPM H HD HE HGT	EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXPANSION EXISTING DEGREES FAHRENHEIT FLOOR DRAIN FINISHED FLOOR ELEVATION FUEL OIL DISCHARGE FUEL OIL FILL FUEL OIL GAUGE LINE FUEL OIL GAUGE LINE FUEL OIL OVER FLOW LINE FUEL OIL SUPPLY FUEL OIL TANK VENT FOOT OR FEET GAUGE GALLONS GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE HYDROGEN HEAD HELIUM HEIGHT

E. NOT /	ALL ABBREVIATIONS MAY BE USED.	SYME NOTE: NOT A
IN IN	INCHES	USED.
INV EL	INVERT ELEVATION	EVIOTINO TO DEMAIN
IW	INDIRECT WASTE	EXISTING TO REMAIN —
KW	KILOWATT	EXISTING TO BE DEMOLISHED —
L LB	LAVATORY POUNDS	EXISTING ABANDONED —
LF	LINEAR FEET	DOMESTIC HOT WATER
LG	LENGTH	DOMESTIC HOT WATER —
LN	LIQUID NITROGEN	DOMESTIC COLD WATER —
LOX	LIQUID OXYGEN	DOMESTIC HOT WATER RETURN —
MAX	COMPRESSED AIR (MEDICAL GAS) MAXIMUM	CANITARY
MECH	MEHCANICAL	SANITARY —
MFG	MANUFACTURER	VENT -
MIN	MINIMUM	STORM
MS MV	MOP SINK VACUUM (MEDICAL GAS)	
N20	NITROUS OXIDE	SECONDARY STORM —
N	NITROGEN	NATURAL GAS —
N/A	NOT APPLICABLE	
NC	NORMALLY CLOSED	DESCRIPTION
NIC NO	NOT IN CONTRACT NORMALLY OPEN	DROP
NO.	NUMBER	RISE
NPW	NON-POTABLE WATER	TEE
NTS	NOT TO SCALE	CAP
0	OXYGEN	GLOBE VALVE
OFCI OS&Y	OWNER FURNISHED CONTRACTOR INSTALLED OUTSIDE STEM AND YOKE VALVE	DILICANALVE
PD	PUMPED DISCHARGE	PLUG VALVE
PLBG	PLUMBING	SOLENOID VALVE
PPM	PARTS PER MILLION	GAS PRESSURE REGULATOR
PR PRESS	FUEL POLISH RETURN PRESSURE	DDECCUDE DEDUCING VALVE
PRV	PRESSURE REDUCING VALVE	PRESSURE REDUCING VALVE
PS	FUEL POLISH SUPPLY	OUTSIDE STEM & YOKE VALVE
PSI	POUNDS PER SQUARE INCH	BUTTERFLY VALVE
PSIG RCP	PSI GUAGE RECIRCULATING PUMP	BALL VALVE
RD	ROOF DRAIN	DALL VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER	CHECK VALVE
RPM	REVOLUTIONS PER MINUTE	BALANCE VALVE
RO	REVERSE OSMOSIS WATER	STRAINER
S SEC	SINK SECOND	STIVAINER
SH	SHOWER	UNION
SHT	SHEET	TEMPERATURE & PRESSURE RELIEF VALVE
SPEC	SPECIFICATION SPECIFICATION	METER
SRD STSTL	SECONDARY ROOF DRAIN STAINLESS STEEL	WETER
STD	STANDARD	AQUASTAT
STR	STRAINER	THERMOMETER
SW	SOFT POTABLE WATER	PRESSURE GAUGE WITH STOPCOCK
TEMP	TOP ELEVATION TEMPERATURE	TRESSURE GAUGE WITH STOLLOOK
TEMP TMV	TEMPERATURE THERMOSTATIC MIXING VALVE	REDUCED PRESSURE BACKFLOW PREVENTER
TOP	TOP OF PIPE	PUMP
TWS	TEMPERED WATER SUPPLY	WALL LIVEDANT
TYP	TYPICAL	WALL HYDRANT
UNO	UNLESS NOTED OTHERWISE	HOSE BIBB
UR V	URINAL VOLT	CLEANOUT
VB	VACUUM BREAKER	
VTR	VENT THRU ROOF	CLEANOUT AT FLOOR OR AT GRADE
W	WATER	FLOOR OR AREA DRAIN
WC WF	WATER CLOSET WASH FOUNTAIN	ROOF DRAIN

SYMBOLS LIST NOTE: NOT ALL SYMBOLS MAY BE PIPING EXISTING TO REMAIN EXISTING TO BE DEMOLISHED -----(D) -----EXISTING ABANDONED DOMESTIC HOT WATER DOMESTIC COLD WATER DOMESTIC HOT WATER RETURN SANITARY **VENT** -----STORM SECONDARY STORM NATURAL GAS DESCRIPTION 2D SYMBOL PLAN VIEW SECTION VIEW DROP RISE \multimap ----3 GLOBE VALVE 画 PLUG VALVE \Box SOLENOID VALVE GAS PRESSURE REGULATOR PRESSURE REDUCING VALVE OUTSIDE STEM & YOKE VALVE BUTTERFLY VALVE r de la companya de l BALL VALVE ∇ CHECK VALVE BALANCE VALVE 4 STRAINER 0 0 UNION TEMPERATURE & PRESSURE RELIEF VALVE Ħ **-**M AQUASTAT 安

GENERAL NOTES

- 1. PROVIDE NEW DOMESTIC WATER, SANITARY WASTE, NATURAL GAS FOR THIS BUILDING. PROVIDE ALL NECESSARY COMPONENTS FOR FULLY OPERATIONAL SYSTEM. INSTALL SYSTEMS IN ACCORDANCE WITH STATE REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION. COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS, FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT WITH OTHER TRADES.
- 2. ALL FLOOR PENETRATIONS TO BE SEALED WATER TIGHT AND COMPLETELY PACKED WITH FIRE STOP MATERIAL BY TRADE CONTRACTORS.
- 3. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM COMPONENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES.
- 4. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE CONCERNING EXISTING AND NEW WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION IN MECHANICAL AREAS WITH NUMEROUS OBSTRUCTIONS INCLUDING DUCTWORK, EQUIPMENT AND PIPING. THIS WILL REQUIRE ON SITE CUTTING AND VERIFICATION.
- 5. ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS'S ATTENTION. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR(S) BY THE ENGINEER.
- 6. THE TERM "PROVIDE" SHALL MEAN THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 7. ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.
- A SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND ALL FIELD CHANGES SHALL BE RED LINED ON THE DRAWINGS. CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN ELECTRONIC (AUTOCAD) FORMAT, REFLECTING ACCURATE FIELD CONDITIONS.
- 9. ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION SHALL BE PROVIDED A UL LISTED THROUGH PENETRATION FIRESTOP ASSEMBLY. THE RATINGS OF ALL FIRESTOP ASSEMBLIES SHALL BE GREATER THAN OR EQUAL TO THE RATING OF THE PENETRATED BARRIER.
- 10. CORE DRILL PENETRATIONS IN CONCRETE FLOORS OR WALLS 1-2 INCHES LARGER THAN THE PIPE DIAMETER OF THE PENETRATING PIPE.
- 11. DUCTWORK, PIPING, MECHANICAL EQUIPMENT AND CEILINGS SHALL NOT BE USED AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.
- 12. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED WITHOUT THE KNOWLEDGE AND WRITTEN APPROVAL OF THE OWNER.
- 13. EQUIPMENT, MATERIALS, INSTALLATION WORKMANSHIP, EXAMINATION AND TESTING SHALL BE IN ACCORDANCE WITH CURRENT PLUMBING CODE. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGARS AND SUPPORTS. PIPE SHALL NOT INTERFERE WITH OTHER EQUIPMENT AND CONSTRUCTION.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, MECHANICAL EQUIPMENT AND PIPES.
- 15. NO FABRICATION OR INSTALLATION IS ALLOWED WITHOUT APPROVED SHOP DRAWING SUBMITTALS.
- 16. CONTRACTOR SHALL SUBMIT SYSTEM CATALOG PRODUCT DATA SHEETS OF ALL COMPONENTS PROPOSED FOR USE PRIOR TO INSTALLATION FOR APPROVAL. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
- 17. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.

O-I-

 \square

=

pCO

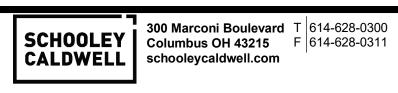
CO

p = a

pCO

- 18. PIPING SHALL NOT SHARE SUPPORTS WITH OTHER BUILDING SYSTEMS. IN MECHANICAL AREAS, PIPING SHALL NOT BE ATTACHED TO THE DUCT WORK. STANCHIONS SHALL BE USED WHERE PIPING IS UNABLE TO BE HUNG FROM ABOVE.
- 19. PIPING IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED ABOVE FINISHED CEILINGS.
- 20. CONTRACTOR SHALL PROVIDE LABELS (WITH FLOW ARROWS) FOR ALL PIPING.
- 21. PIPING SHALL NOT BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS / EQUIPMENT WHICH SERVES OTHER AREAS. COORDINATE THE LOCATION OF ALL PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.
- 22. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENTS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND TO COORDINATE IN ACCORDANCE WITH SPECIFICATIONS.
- 23. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING TO BE AS TIGHT TO THE UNDERSIDE OF DECK AS POSSIBLE. ALL EXPOSED PIPING SHALL BE APPROVED BY ARCHITECT AND SHALL MAINTAIN REQUIRED CLEARANCES.
- 24. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, FEES, AND PERMITS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COMPLY WITH ALL GENERAL CONDITIONS LISTED ON THE ARCHITECTURAL DOCUMENTS.









O-DXI-

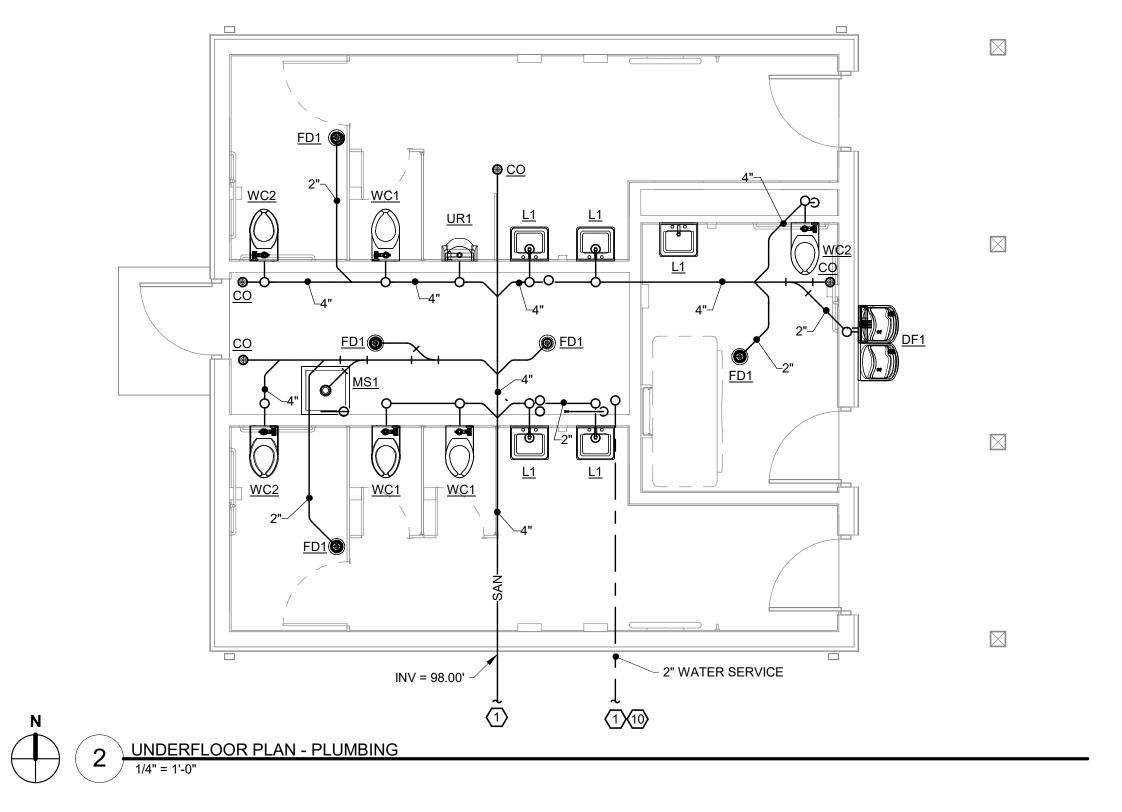
-

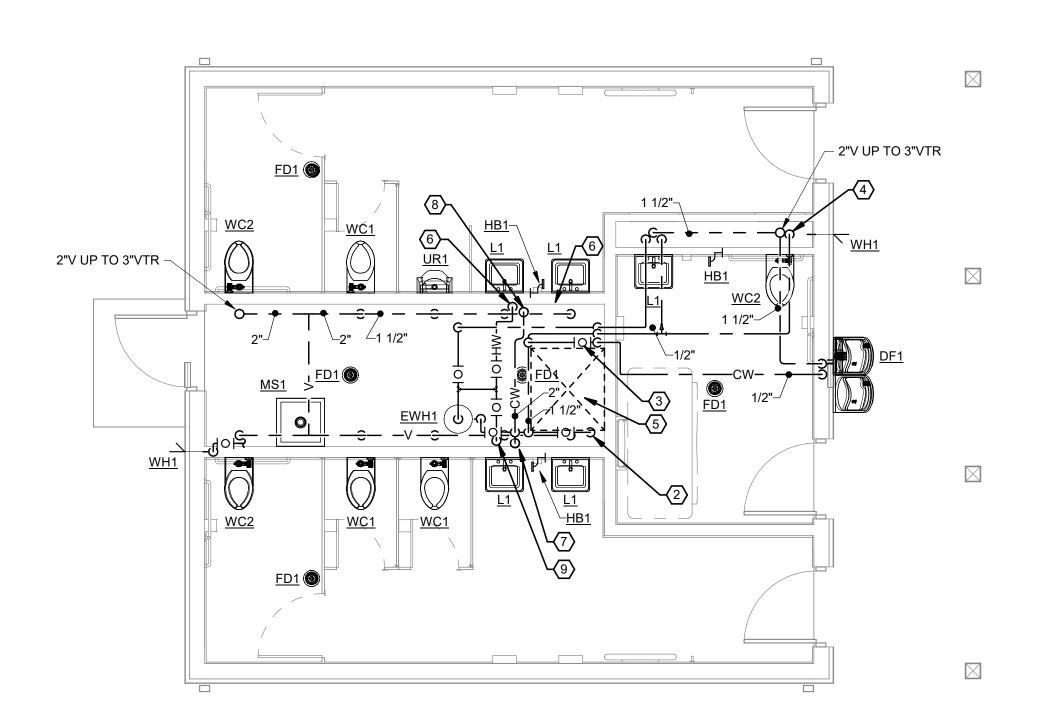
[[CO











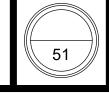








DESIGNED BY: JPV	JOB NUMBER: DNR-210062.02
DRAWN BY: JPV	SCALE: AS NOTED
CHECKED BY: PM	DATE: 09/04/2025
APPROVED BY: CT	CONSTRUCTION DOCUMENTS



300 Marconi Boulevard T 614-628-0300 **Columbus OH 43215** F 614-628-0311 **schooleycaldwell.com**

GENERAL SHEET NOTES:

○SHEET KEYNOTES:

FOUNTAIN SUPPLY.

AND 1/2" TO THE HB.

CLOSELY COORDINATE WORK WITHIN PLUMBING CHASE WITH ALL OTHER TRADES.

EXTEND 5 FEET BEYOND BUILDING WALL FOR CONTINUATION BY SITE UTILITY CONTRACTOR.

2. WATER SERVICE ENTRANCE WITH SHUT-OFF VALVE. COORDINATE PENTRATION LOCATION AND ELECTRICAL PANEL CLEARANCES WITH ELECTRICAL CONTRACTOR. PROVIDE COMPRESSED AIR FITTING DOWNSTREAM OF SHUT OFF VALVE FOR WINTERIZATION BLOW DOWN.

3. PROVIDE SHUT OFF VALVE WITH COMPRESSED AIR FITTING DOWNSTREAM FOR WINTERIZATION BLOW DOWN OF DRINKING

4. 1" CW DOWN IN CHASE. EXTEND 1" CW TO WC, 3/4" CW TO WH1, AND 1/2"

5. MAINTAIN CLEARANCE AROUND ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR.

6. 3/4" HW DOWN ON WALL. EXTEND AND CONNECT 1/2" HW TO EACH LAV.

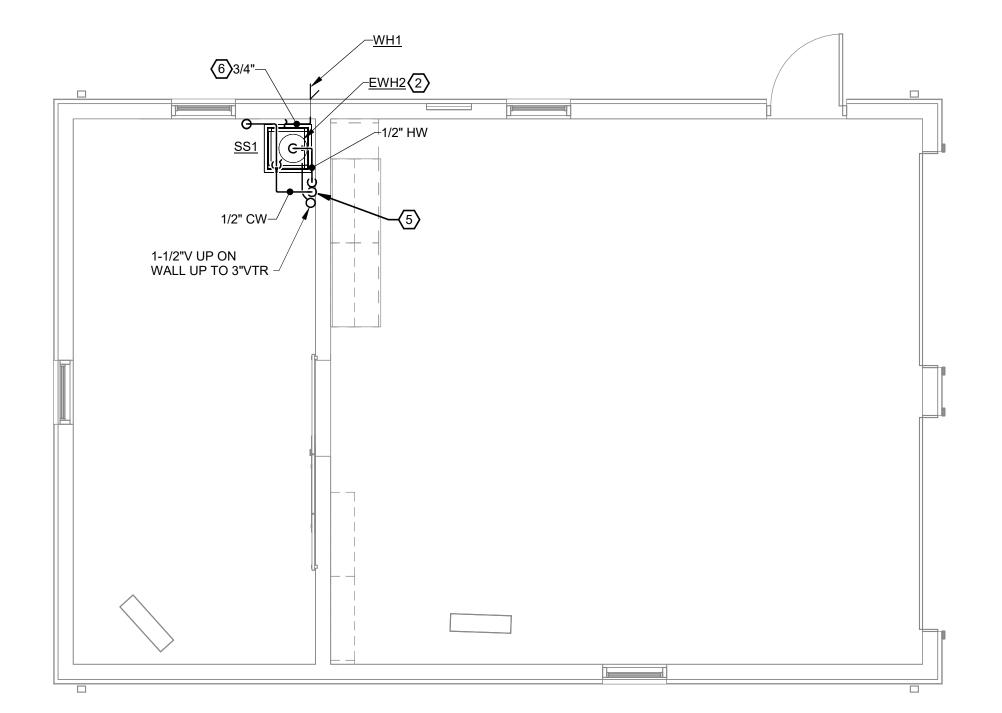
 2" CW DOWN ON WALL WITH SHUT OFF VALVE. EXTEND FULL SIZE ON WALL AND CONNECT 1" TO EACH WC, 1/2" TO EACH LAV, 1/2" TO THE HB, AND 1/2" CW TO MS1. EXTEND 3/4" DRAIN DOWN LINE WITH SHUT OFF

8. 2" CW DOWN ON WALL WITH SHUT OFF VALVE. EXTEND FULL SIZE ON WALL AND CONNECT 1" TO EACH WC, 3/4" TO THE UR, 1/2" TO EACH LAV

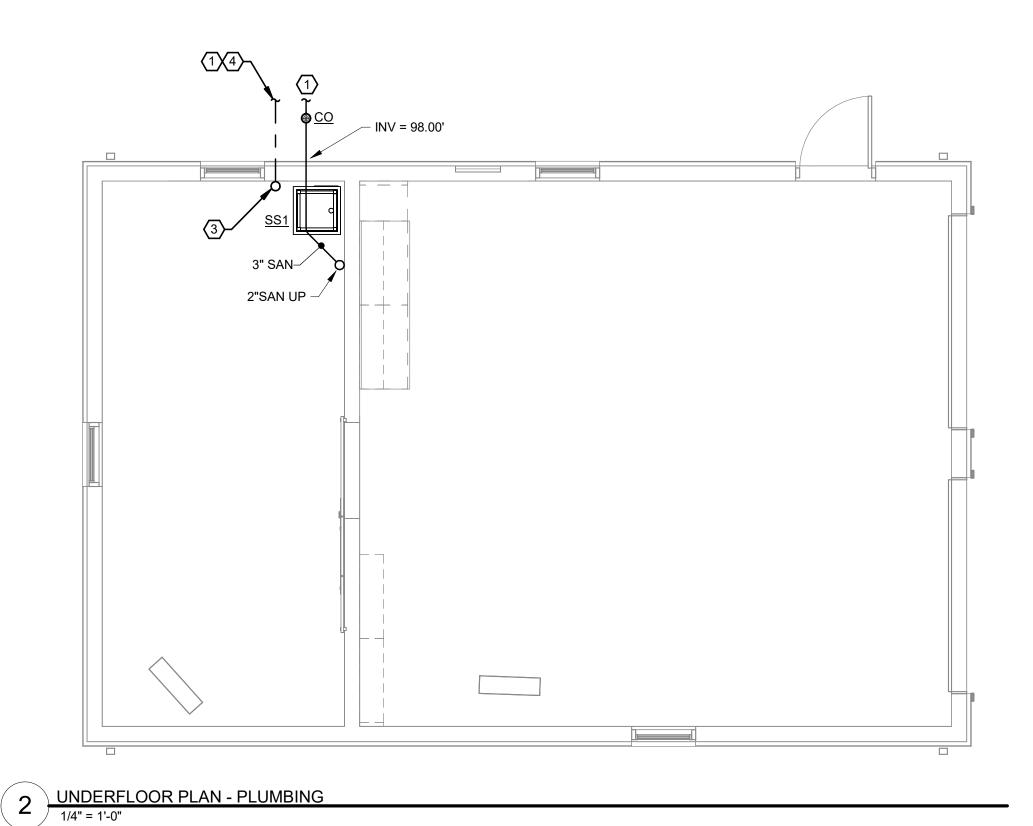
9. 3/4" HW DOWN ON WALL. EXTEND AND CONNECT 1/2" HW TO EACH LAV

10. SEE CIVIL PLANS FOR WATER METER AND BACKFLOW PREVENTER LOCATED ON SITE.

VALVE TO DISCHARGE IN THE MOP SINK.



FIRST FLOOR PLAN - PLUMBING





○SHEET NOTES:

WALL TO SINK.

LOCATED ON SITE.

SITE UTILITY CONTRACTOR.

3. 1" CW UP ON WALL WITH SHUT-OFF VALVE.

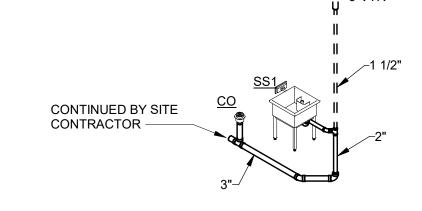
1. EXTEND 5 FEET BEYOND BUILDING FOOTPRINT FOR CONTINUATION BY

2. WATER HEATER MOUNTED ON WALL ABOVE SERVICE SINK. PROVIDE PLATFORM WITH WALL BRACKET AND GALVANIZED DRAIN PAN. EXTEND 1/2" HW DOWN ON WALL TO UTILITY SINK. EXTEND DRAIN LINES ON

4. SEE CIVIL PLANS FOR WATER METER AND BACKFLOW PREVENTER

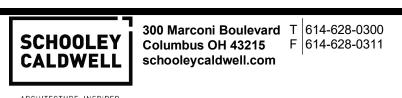
5. 1/2" CW DOWN ON WALL. EXTEND AND CONNECT 1/2" CW TO UTILITY

3/4" EXTENDED FROM WATER ENTRANCE WITH SHUT OFF VALVE FOR WALL HYDRANT SUPPLY.



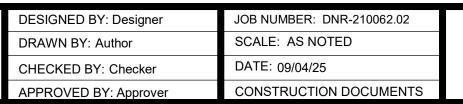


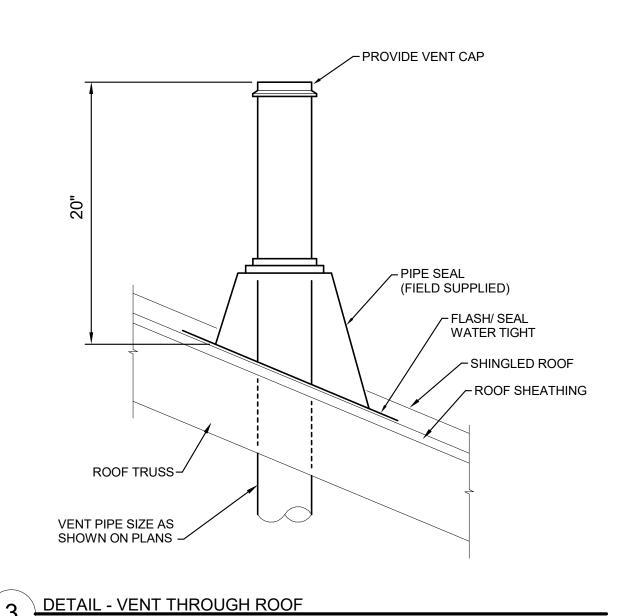


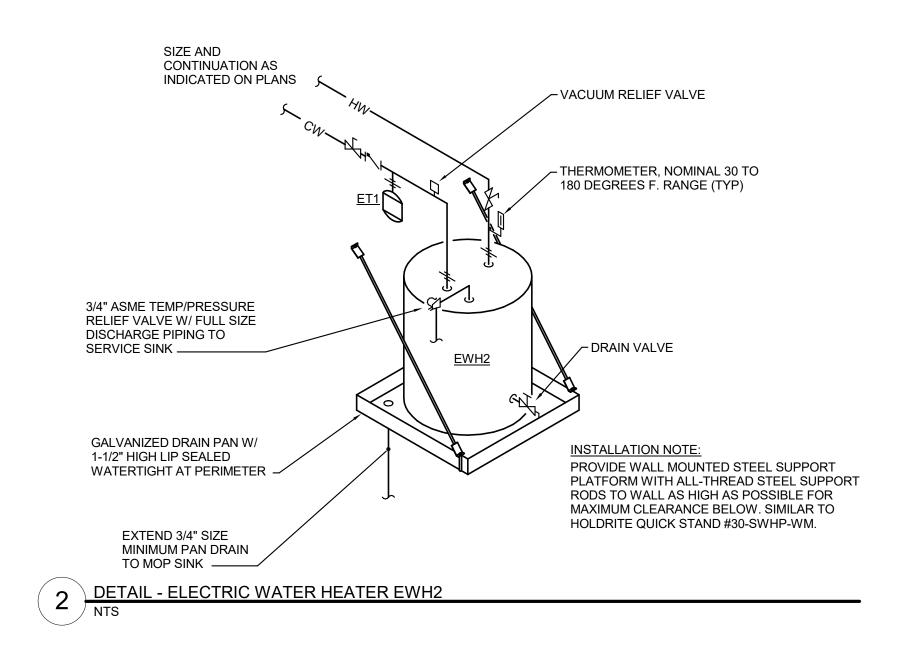


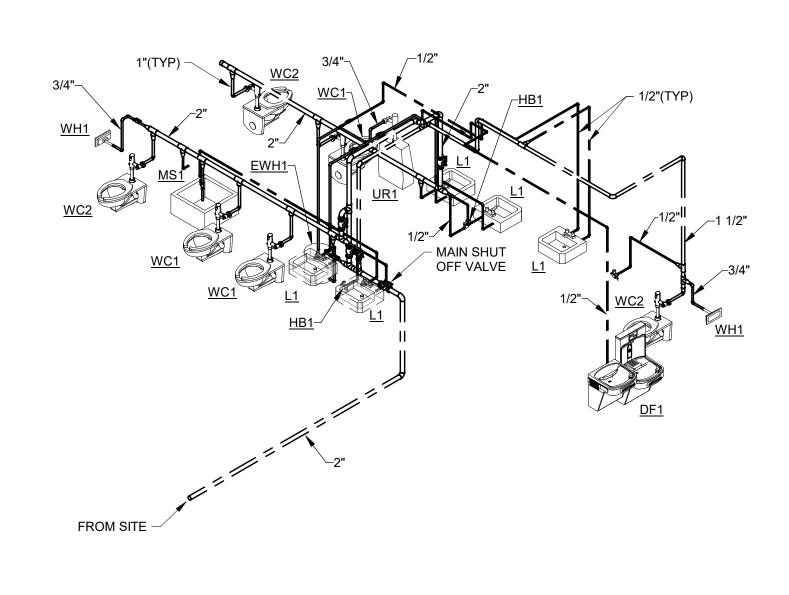


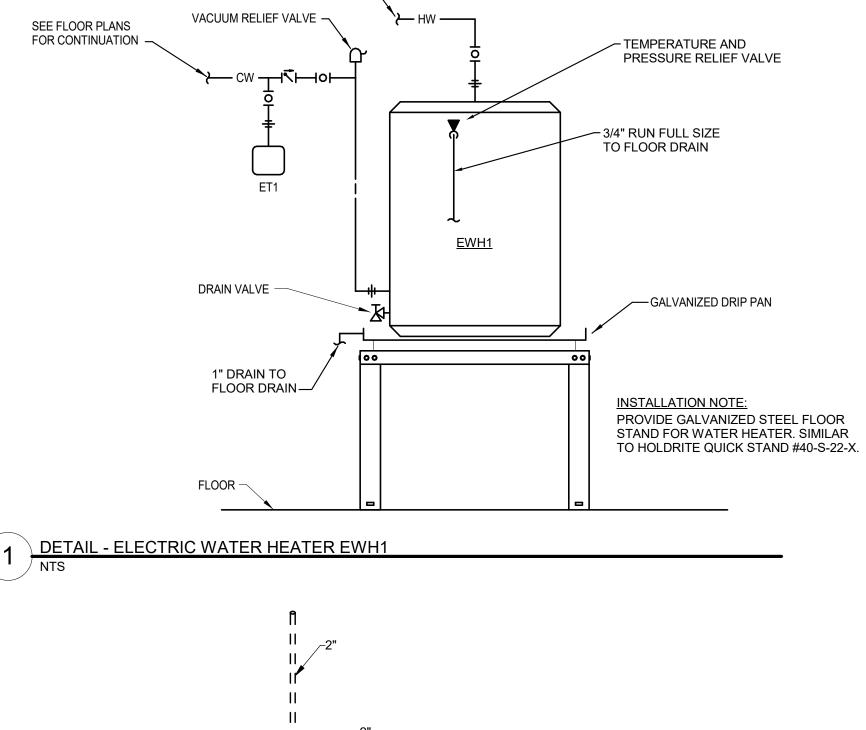




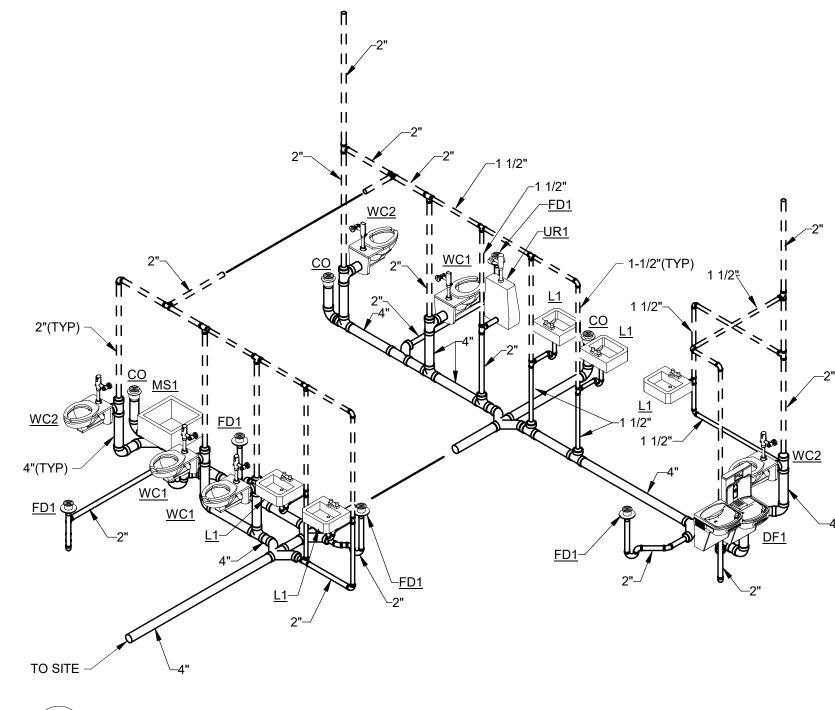




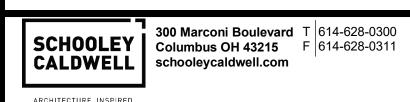




SEE FLOOR PLANS FOR CONTINUATION —

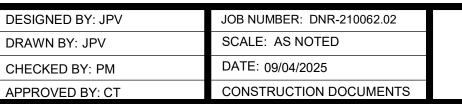




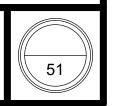












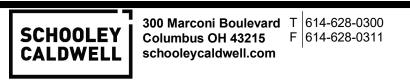
	PLUMBING FIXTURE ROUGH-IN SCHEDULE								
FIXTURE	HOT	TEMPERED							
WC1	4"	INTEGRAL	2"	1"	NA	NA			
UR1	2"	INTEGRAL	1-1/2"	3/4"	NA	NA			
L1	1-1/2"	1-1/4"x1-1/2"	1-1/2"	1/2"	1/2"	NA			
SS1	2"	2"	1-1/2"	1/2"	1/2"	NA			
DF1	1-1/2"	1-1/4"x1-1/2"	1-1/2"	1/2"	N/A	NA			
FD1	2"	2"	1-1/2"	NA	NA	NA			
WH1	NA	NA	NA	3/4"	NA	NA			
HB1	NA	NA	NA	1/2"	NA	NA			
MS1	3"	3"	1-1/2"	1/2"	1/2"	NA			

	PLUMBING FIXTURE SCHEDULE		
TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL#
	WATER CLOSET: VITREOUS CHINA, WALL-MOUNTED ELONGATED BOWL, 1-1/2" INLET BACK SPUD, LOW-CONSUMPTION 1.6 GPF, DIRECT-FED SIPHON JET ACTION, FULLY-GLAZED 2-1/8" TRAPWAY, 10"x12" WATER, SURFACE AREA, MEETS ASME FLUSH REQUIREMENTS AT 1.28 GPF.	AMERICAN STANDARD	2634.101
WC1	FLUSH VALVE: CONCEALED DIAPHRAGM TYPE FLUSH VALVE, ROUGH BRASS, SYNTHETIC RUBBER DIAPHRAGM, HARDWIRED AUTOMATIC SENSOR, OVERRIDE BUTTON, VACUUM BREAKER FLUSH CONNECTION, SPUD COUPLING AND FLANGE FOR 1-1/2" BACK SPUD, SWEAT SOLDER ADAPTER AND CAST SET SCREW WALL FLANGE, LOW CONSUMPTION 1.28 GPF, 24VAC ACTUATOR.	SLOAN	152 ESS-1.28-HV
	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHURCH	295CT
	CARRIER: ADJUSTABLE, SIPHON JET WATER CLOSET CARRIER SYSTEM WITH NO-HUB CONNECTIONS. CAST IRON MAIN FITTING WITH 2" VENT, ADJUSTABLE GASKETED FACE PLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ADJUSTABLE COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM, AND STUD PROTECTORS. REAR ANCHOR TIE DOWN AND BONDED GASKET.	ZURN	SERIES Z1200
	WATER CLOSET: ADA COMPLIANT, VITREOUS CHINA, WALL-MOUNTED ELONGATED BOWL, 1-1/2" INLET BACK SPUD, LOW-CONSUMPTION 1.6 GPF, DIRECT-FED SIPHON JET ACTION, FULLY-GLAZED 2-1/8" TRAPWAY, 10"x12" WATER, SURFACE AREA, MEETS ASME FLUSH REQUIREMENTS AT 1.28 GPF.	AMERICAN STANDARD	2634.101
WC2	FLUSH VALVE: CONCEALED DIAPHRAGM TYPE FLUSH VALVE, ROUGH BRASS, SYNTHETIC RUBBER DIAPHRAGM, HARDWIRED AUTOMATIC SENSOR, OVERRIDE BUTTON, VACUUM BREAKER FLUSH CONNECTION, SPUD COUPLING AND FLANGE FOR 1-1/2" BACK SPUD, SWEAT SOLDER ADAPTER AND CAST SET SCREW WALL FLANGE, LOW CONSUMPTION 1.28 GPF, 24VAC ACTUATOR.	SLOAN	152 ESS-1.28-H\
VVC2	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHURCH	295CT
	CARRIER: ADJUSTABLE, SIPHON JET WATER CLOSET CARRIER SYSTEM WITH NO-HUB CONNECTIONS. CAST IRON MAIN FITTING WITH 2" VENT, ADJUSTABLE GASKETED FACE PLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ADJUSTABLE COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM, AND STUD PROTECTORS. REAR ANCHOR TIE DOWN AND BONDED GASKET.	ZURN	SERIES Z1200
	URINAL: VITREOUS CHINA, WALL HUNG, HIGH EFFICIENCY 0.5 GPF, FLUSHING RIM, ELONGATED 14" RIM FROM FINISHED WALL, WASHOUT FLUSH ACTION, EXTENDED SIDES FOR PRIVACY, 3/4" INLET BACK SPUD, OUTLET CONNECTION THREADED 2" INSIDE, MEETS ASME FLUSH REQUIREMENTS AT 0.5 GPF. STAINLESS STEEL STRAINER.	AMERICAN STANDARD	6515.001
UR1	FLUSH VALVE: CONCEALED DIAPHRAGM TYPE FLUSH VALVE, ROUGH BRASS, SYNTHETIC RUBBER DIAPHRAGM, HARDWIRED AUTOMATIC SENSOR, OVERRIDE BUTTON, VACUUM BREAKER FLUSH CONNECTION, SPUD COUPLING AND FLANGE FOR 1" BACK SPUD, SWEAT SOLDER ADAPTER AND CAST SET SCREW WALL FLANGE, LOW CONSUMPTION 0.5 GPF, 24VAC ACTUATOR.	SLOAN	190 ESS-0.5-H
	CARRIER: WALL URINAL SUPPORT WITH TOP SUPPORT PLATE, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATE AND MOUNTING FASTENERS.	ZURN	SERIES Z1200
	LAVATORY: 20-1/2" X 18-1/4", VITREOUS CHINA, WALL HUNG, FRONT OVERFLOW, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE, FAUCET HOLES ON 4" CENTERS, CONCEALED ARMS SUPPORT.	AMERICAN STANDARD	0355.012
	FAUCET: CHROME PLATED BRASS, HARD WIRED SENSOR ACTIVATED, 0.5 GPM AERATOR, SENSOR RANGE ADJUSTMENT SCREW, FILTERED SOLENOID VALVE WITH SERVICEABLE STRAINER FILTER. 120VAC/ 24VDC TRANSFORMER.	SLOAN	ETF-600
L1	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8902, 1
	THEMOSTATIC MIXING VALVE: LEAD-FREE DESIGN, WAX-FILLED THERMOSTAT, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, UNIVERSAL MOUNTING CAPABILITY, INTEGRAL CHECK VALVES AND STRAINER, ASSE 1070 COMPLIANT. SET TO 110°F.	BRADLEY	S59-4000
	CARRIER: LAVATORY SUPPORT WITH CONCEALED ARMS, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, CONCEALED ARMS, STEEL SLEEVE, ALIGNMENT TRUSS AND MOUNTING FASTENERS.	ZURN	SERIES Z120
	SERVICE SINK: ONE PIECE MOLDED CONTRUCTION, FIBERGLASS AND CRUSHED STONE, SINGLE BOWL, 13" DEEP BOWL, INTEGRAL DRAIN WITH STOPPER, SELF-DRAINING BACK SHELF, HEAVY GUAGE STEEL LEGS WITH ADJUSTABLE FEET.	MUSTEE	17F
SS1	FAUCET: DECK MOUNTED 4" CENTERS, 6" S-TYPE SWING SPOUT, 2.2 GPM AERATOR, METAL LEVER HANDELS.	CHICAGO	891-ABCP
	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8902, 1
DE4	DRINKING FOUNTAIN: WALL HUNG, ADA COMPLIANT, BI-LEVEL, NON-REFRIGERATED, FROST-RESISTANT DRINKING FOUNTAIN. FRONT MOUNTED PUSH BUTTONS. BUBBLER WITH VANDAL RESISTANT BUBBLER.	ELKAY	LK4406
DF1	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP,	MCGUIRE	165LK, 8902
1404	MOP SINK: 24"x24", ONE PIECE PRECAST TERRAZZO, MARBLE CHIPS CAST IN PORTLAND CEMENT. 12" HIGH. SHOULDERS SHALL NOT BE LESS THAN 2" WIDE WITH 1/2" PITCH TOWARD INSIDE. STAINLESS STEEL CAPS ON ALL CURBS. DRAIN BODY MADE OF STAINLESS STEEL CAST INTEGRALLY AND PROVIDE FOR A CAULKED LEAD CONNECTION NOT LESS THAN 1" DEEP TO A 3" PIPE.	CREATIVE INDUSTRIES	MC2424-12
MS1	FAUCET: WALL MOUNTED WITH WALL SUPPORTS FOR SUPPLY PIPING FROM ABOVE, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, ATMOSPHERIC VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 3/4" MALE GARDEN HOSE THREAD OUTLET, INTEGRAL SUPPLY STOPS, LEVER HANDLES WITH SECURED COLOR CODED INDEX BUTTONS.	T&S BRASS	B-0662
FD1	FLOOR DRAIN: CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD WITH 5" ROUND NICKEL BRONZE STRAINER. CAULK OUTLET. CONTRACTOR SHALL BUFF STRAINER TO BE SUITABLE FOR BAREFOOT TRAFFIC IN SHOWER AREAS. INLINE FLOOR DRAIN TRAP SEALER.	J.R. SMITH	2005-A
WH1	WALL HYDRANT: AUTOMATIC DRAINING, FREEZEPROOF FAUCET, LOOSE KEY OPERATION, SELF-DRAINING INTEGRAL BACKFLOW PREVENTER, 3/4" INLET AND OUTLET. LENGTH AS REQUIRED.	WOODFORD	67
HB1	BRONZE CASING, HINGED, LOCKING POLISHED BRONZE (NICKEL) BOX AND COVER, SELF-DRAINING VACUUM BREAKER, INTEGRAL BACKFLOW PREVENTER, 3/4" SIZE. LENGTH AS REQUIRED.	WOODFORD	B24

	DOMESTIC WATER HEATER SCHEDULE								
TAG	LOCATION	ELECTRIC		GALLONS OF	RECOVERY AT	MANUEACTURER	MODEL#	NOTES	
TAG	LOCATION	VOLT	PHASE		MANUFACTURER	NOTES			
EWH1	RESTROOMS	208	1	4	20	16	A.O. SMITH	DEL-20	SET TANK TEMPERATURE TO 140°F. PROVIDE GALVANIZED STEEL FLOOR STAND FOR HEATER.
EWH2	MAINTENANCE BUILDING	208	1	2	15	8	A.O. SMITH	DEL-15	SET TANK TEMPERATURE TO 140°F. PROVIDE WALL MOUNTED STEEL SUPPORT PLATFORM FOR HEATER.

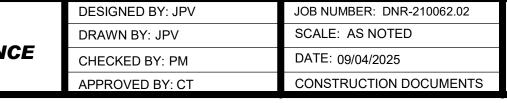
		EXPANSION TANK SCHEDULE										
TAG	LOCATION	TOTAL TANK VOLUME (GALLONS)	TOTAL EXPANSION CAPACITY (GALLONS)	INLET	MANUFACTURER	MODEL#	NOTES					
ET1	SEE PLANS	2	0.9	3/4"	AMTROL	ST-5C	CHARGE TO INCOMING WATER PRESSURE					











MECHANICAL SYMBOLS LIST

NOT ALL SYMBOLS MAY BE USED

INDIE. NOI AL	L ABBREVIATIONS MAY BE USEI
ABBREVIATION	DESCRIPTION
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
AVG	AVERAGE OR AVERAGING
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF BEAM BOTTOM OF DUCT
BOP	BOTTOM OF STRUCTURE
BOS	BOTTOM OF STRUCTURE
BTUH	BRITISH THERMAL UNITS PER HOUR
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
COMPR	COMPRESSOR
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB OR DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FEI	FAN EFFICIENCY INDEX
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
	INNER DIAMETER
ID IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN	
	INCHES
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	BRITISH THERMAL UNIT (THOUSAND)
MCA	MINIMUM CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MOCP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED OR NOISE CRITERIA
NO	NORMALLY OPEN
NPLV	NONSTANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PG	PROPYLENE GLYCOL
PPH	POUNDS PER HOUR
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH (GAUGE)
REFRIG	REFRIGERANT
REFRIG	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SP	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
	MATTO
W	WATTS

MECHANICAL ABBREVIATIONS

MICCHAI	NICAL STSTEM TIPES
NOTE: NOT AL	L ABBREVIATIONS MAY BE USED.
ABBREVIATION	DESCRIPTION
CA	COMBUSTION AIR
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
COND	CONDENSATE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
EA	EXHAUST AIR
FLUE	FLUE
GR	GEOTHERMAL RETURN
GS	GEOTHERMAL SUPPLY
HR	HEAT PUMP RETURN
HS	HEAT PUMP SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
OA	OUTDOOR AIR
PC	PUMPED CONDENSATE
RA	RETURN AIR
REF	REFRIGERANT
REL	RELIEF AIR

SUPPLY AIR

WATER GAUGE

WPD

SA

WATER PRESSURE DROP

MECHANICAL SYSTEM TYPES

GENERAL MECHANICAL NOTES

- 1. VISIT THE SITE OF THE WORK TO GAIN AN ACCEPTABLE KNOWLEDGE OF CONDITIONS AFFECTING THE EXECUTION OF THE WORK. AFTER VISITING THE SITE, REQUEST INFORMATION AND/OR CLARIFICATIONS AS NECESSARY TO FULLY UNDERSTAND THE WORK REQUIRED AND TO PROPERLY ESTIMATE COSTS.
- 2. REVIEW ALL CONSTRUCTION DOCUMENTS TO VERIFY EXTENT AND SCHEDULING OF ALL DEMOLITION ACTIVITIES PRIOR TO COMMENCING WORK. TO AID IN DRAWING CLARITY, ALL EXISTING SYSTEMS MAY NOT BE SHOWN. FIELD VERIFY ALL SIZES AND LOCATIONS OF EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. NOTIFY ARCHITECT/ENGINEER OF DEVIATIONS WHICH AFFECT RENOVATION WORK PRIOR TO PROCEEDING WITH THE WORK. COORDINATE DISPOSAL/SALVAGE OF ALL FIXTURES, DEVICES, EQUIPMENT, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER. ALL EQUIPMENT TO BE REUSED OR RETURNED TO OWNER SHALL BE REMOVED AS TO NOT DAMAGE THE EQUIPMENT OR AFFECT ITS REUSE. IF ANY REUSED OR RETURNED EQUIPMENT OR MATERIAL IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED BY THE CONTRACTOR, WITH NO EXPENSE TO THE OWNER.
- 3. ITEMS NOTED TO BE DEMOLISHED INCLUDE BUT ARE NOT LIMITED TO ALL ASSOCIATED COMPONENTS, CONTROL WIRING, PIPING, DUCTWORK, ELECTRICAL CONNECTIONS, SUPPORTS, INSULATION, ETC. COORDINATE WITH OTHER TRADES AS REQUIRED.
- 4. ALL WORK IS TO BE PHASED AS INDICATED ON THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL COORDINATE PHASING OF ALL DEMOLITION, RENOVATION, AND NEW WORK WITH OTHER TRADES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. CLOSELY COORDINATE PHASING OF WORK WITHIN CORRIDORS WITH THE OWNER. CORRIDORS MAY NOT BE ABLE TO BE COMPLETELY CLOSED OFF TO PEDESTRIAN TRAFFIC. TO ACCOMMODATE PHASING, CORRIDOR ACCESS WORK MAY NEED TO BE PERFORMED DURING OFF PEAK PERIODS. PRIOR TO MOVING ON TO THE NEXT PHASE, ALL WORK IN PREVIOUSLY PHASED AREAS MUST BE COMPLETE AND OPERATIONAL. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING, OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC.
- 5. ENSURE THAT THE WORK WILL NOT INTERFERE OR INTERRUPT SERVICES TO AREAS OUTSIDE OF THE DESIGNATED CONTRACT AREAS. SCHEDULE ALL WORK AS TO CAUSE MINIMAL SERVICE INTERRUPTIONS FOR THE OWNER. UNAVOIDABLE INTERRUPTIONS ARE TO BE SCHEDULED WITH THE OWNER NO LESS THAN TWO WEEKS PRIOR TO THEIR EXPECTED COMMENCEMENT. WORK SHALL BE PERFORMED AT SUCH TIMES AS DIRECTED BY THE OWNER AND, IF POSSIBLE, ARE TO OCCUR DURING OFF HOURS OR PEAK PERIODS.
- 6. THE CONTRACTOR IS TO VERIFY THE EXACT SERVICE OF ANY EXISTING PIPING OR DUCTWORK PRIOR TO INSTALLING ANY NEW CONNECTIONS. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS OR THE DESIGN INTENT AND ACTUAL CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, PRIOR TO FABRICATION OR INSTALLATION.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SHALL REPAIR ADJACENT SURFACES, AREAS, EQUIPMENT, SYSTEMS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LAY-IN CEILING GRID AND TILES AS NECESSARY TO COMPLETE ABOVE CEILING WORK. RETURN CEILING TO ORIGINAL CONDITION FOLLOWING COMPLETION OF CONSTRUCTION.
- 8. ALL PATCH AND REPAIR WORK IN ARCHITECTURAL TYPE SURFACES SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. PATCH AND REPAIR FLOOR SLAB AND WALL PENETRATIONS TO MATCH EXISTING WHERE THE PIPING, DUCT OR EQUIPMENT IS BEING REMOVED OR INSTALLED. MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR.
- 9. ALL ROOFING MODIFICATIONS SHALL BE DONE BY OWNER'S ROOFING VENDOR TO MAINTAIN ANY AND ALL WARRANTIES. COST TO BE INCLUDED IN THIS CONTRACT UNLESS SPECIFICALLY INCLUDED IN GENERAL TRADES CONTRACTOR'S SCOPE OF WORK. CONFIRM OWNER'S ROOFING VENDOR PRIOR TO BID.
- 10. INSULATE DUCTWORK AND PIPING WHERE EXISTING INSULATION HAS BEEN DAMAGED AND/OR REMOVED IN THE PERFORMANCE OF WORK FOR THIS PROJECT.
- 11. FOR RENOVATION WORK, IT IS PROHIBITED TO SUSPEND NEW WORK FROM THE EXISTING FLOOR SLAB OR ROOF DECK. ALL NEW WORK SHALL BE SUPPORTED FROM STRUCTURE THAT IS ADEQUATELY SIZED FOR THE ADDED LOAD.
- 12. THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS, LEAD BASED PAINTS, AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL ENSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL, FUMES, OR DUST UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS. THE ENGINEER HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY THE ENGINEER TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, THE ENGINEER NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING, OR DISPOSAL OF SUCH MATERIAL. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS, OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE THE OWNER IMMEDIATELY. THE CONTRACTOR, BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF FANY WORK, THEREBY AGREE TO BRING NO CLAIM RELATIVE TO OTHER SUCH ITEM AGAINST THE ENGINEER, ITS PRINCIPALS, EMPLOYEES, AGENTS, OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE RIGINEER, ITS PRINCIPALS, EMPLOYEES, AGENTS, AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- 13. ALL WORK SHALL BE PERFORMED IN ACCORDANCE AND COMPLY WITH ALL LAWS, ALL REGULATIONS, INSURANCE CARRIER REQUIREMENTS, CODES, AND STANDARDS (FEDERAL, STATE, AND LOCAL) AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION, WHERE ANY DIFFER, THE MOST STRINGENT SHALL APPLY.
- 14. CONTRACTOR SHALL COMPLY WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS (DRAWINGS AND SPECIFICATIONS) FOR ALL DIVISIONS/TRADES. CONTRACTOR SHALL PAY CLOSE ATTENTION TO ADDITIONAL REQUIREMENTS THAT MAY BE LISTED IN THE GENERAL CONDITIONS ON THE ARCHITECTURAL DRAWINGS AND IN THE DIVISION 01 FRONT-END SPECIFICATIONS.
- 15. IN CASE OF CLARIFICATIONS OR DISCREPANCIES, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER IN WRITING FOR FINAL DETERMINATION PRIOR TO THE BID
- 16. THE ARCHITECT/ENGINEER DOES NOT DEFINE THE SCOPE OF INDIVIDUAL DIVISIONS/TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS. ANY SHEET NUMBERING OR SPECIFICATION NUMBERING SYSTEM USED WHICH IDENTIFIES DISCIPLINES IS SOLELY FOR THE ARCHITECT/ENGINEER'S CONVENIENCE AND IS NOT INTENDED TO DEFINE A SUBCONTRACTOR'S SCOPE OF WORK. INFORMATION REGARDING INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS MAY BE DETAILED, DESCRIBED, AND INDICATED AT DIFFERENT LOCATIONS THROUGHOUT THE CONTRACT DOCUMENTS. NO CONSIDERATIONS WILL BE GIVEN TO REQUESTS FOR CHANGE ORDERS FOR FAILURE TO OBTAIN AND REVIEW THE CONTRACT DOCUMENTS WHEN PREPARING BIDS, PRICES, AND QUOTATIONS. UNLESS STATED OTHERWISE, THE SUBDIVISION AND ASSIGNMENT OF WORK UNDER THE VARIOUS SECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR HOLDING THE PRIME CONTRACT.
- 17. CONTRACT DOCUMENTS FOR MECHANICAL WORK ARE SCHEMATIC IN NATURE AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. INSTALL DUCTWORK/PIPING NEATLY ALONG WALLS AND/OR IN HORIZONTAL GROUPS AND MAINTAIN REQUIRED SLOPES. WORK SHALL BE INSTALLED FROM THE COORDINATION AND FABRICATION DRAWINGS WHICH ARE FULLY COORDINATED, CONTRACTOR GENERATED, DIMENSIONED DRAWINGS.
- 18. PROVIDE ALL MATERIALS, EQUIPMENT, FEES, AND PERMITS TO PERFORM ALL THE LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS STATED, IMPLIED, OR INTENDED IN THE DRAWINGS AND SPECIFICATIONS. INCLUDE IN THE BID AS PART OF THE CONTRACT, ALL NECESSARY AND APPLICABLE SUPPLIES, MATERIALS, AND APPURTENANCES, WHETHER INDICATED OR NOT.
- 19. ALL MATERIALS, EQUIPMENT, SEALS, BEARINGS, PACKINGS, ACCESSORIES, AND PIPING SPECIALTIES SHALL BE SUITABLE FOR THE CONTINUOUS OPERATIONAL TEMPERATURES, PRESSURES, AND CHARACTERISTICS OF THE SYSTEM THEY SERVE.
- 20. WHERE CEILINGS ARE INDICATED, ALL DUCTS, PIPES, AND WIRING SHALL BE ROUTED ABOVE CEILING, UNLESS NOTED OTHERWISE. IN EXPOSED CONDITIONS, INSTALL DUCTWORK, PIPING, AND WIRING TIGHT TO THE BOTTOM OF STRUCTURE UNLESS NOTED OTHERWISE. ALL EXPOSED WIRING SHALL BE RUN IN CONDUIT.
- 21. ALL SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SYSTEMS, AND DEVICES SHALL BE FROM THE BUILDING STRUCTURE. SUPPORT FROM STRUCTURAL BRIDGING IS UNACCEPTABLE. SUPPORTS SHALL BE IN ACCORDANCE WITH LATEST ANSI AND SMACNA STANDARDS.
- 22. FIRESTOP AND SEAL WATERTIGHT ALL FLOOR PENETRATIONS AND ALL RATED WALL PENETRATIONS. THE ANNULAR SPACE AROUND THE PENETRATING DUCT/PIPE SHALL BE PROTECTED WITH AN APPROVED NONCOMBUSTIBLE MATERIAL THAT RESISTS THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND TYPE OF FIRE AND/OR SMOKE RATED BUILDING ELEMENTS.
- 23. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND DIRECTION. PROVIDE STRAIGHT INLET AND OUTLET DUCTS/PIPES BASED ON EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR START-UP PER MANUFACTURER'S RECOMMENDATIONS OF ALL EQUIPMENT AND SYSTEMS INSTALLED, MODIFIED, OR REVISED. IF IN CONFLICT WITH THE CONTRACT DOCUMENTS, ADVISE THE ARCHITECT/ENGINEER IN WRITING PRIOR TO INSTALLATION FOR CLARIFICATION.
- 24. ALL ITEMS THAT REQUIRE MAINTENANCE OR ADJUSTMENT MUST BE INSTALLED IN ACCESSIBLE LOCATIONS WITH PROPER CLEARANCES MAINTAINED. WHERE POSSIBLE INSTALL IN LOCATIONS THAT ARE ACCESSIBLE FROM FLOOR LEVEL. PROVIDE APPROPRIATELY SIZED ACCESS DOORS AS REQUIRED AT NO ADDITIONAL COST TO OTHERS WHETHER SHOWN OR NOT ON THE PLANS, FOR ACCESS AND
- 25. ANY DEVIATIONS FROM THE BASIS OF DESIGN THAT REQUIRE ADDITIONAL PROVISIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 26. COORDINATE THE EXACT REQUIREMENTS, LOCATION, AND CLEARANCES OF WORK WITH THE WORK OF OTHER TRADES PRIOR TO FABRICATION AND INSTALLATION. PROVIDE ADDITIONAL OFFSETS AND SECTIONS IN DUCTWORK AND/OR PIPING REQUIRED TO MEET THE APPLICABLE JOB CONDITION REQUIREMENTS. VERIFY JOB SITE ELEVATIONS, DIMENSIONS, AND CONDITIONS, PRIOR TO FABRICATION OR INSTALLATION OF THE WORK. COORDINATE EXACT ROUTING OF DUCTWORK AND PIPING WITH OTHER TRADES SO THAT NO CONFLICTS OCCUR WITH DUCTWORK, PIPING, LIGHTS, STRUCTURE, ETC. PROVIDE ALL PERTINENT DATA CONCERNING THE LOCATION, DIMENSIONS, ETC., OF THE MECHANICAL EQUIPMENT THAT REQUIRE BASES, CURBS, AND SUPPORTS TO THE APPROPRIATE TRADES. WORK NOT APPROPRIATELY COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- 27. PRIOR TO ORDERING ANY MATERIALS OR ROUGH-IN OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (I.E. VOLTAGE, PHASE, CIRCUIT BREAKER, WIRE SIZING, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES.
- 28. CONTRACTOR IS TO MAINTAIN AS-BUILT DRAWINGS FOR ALL EXISTING SERVICES UNCOVERED DURING CONSTRUCTION (IF APPLICABLE) AND ALL NEW SERVICES BEING INSTALLED. AS-BUILT DRAWINGS SHALL BE MAINTAINED IN THE FIELD AND SHALL CAPTURE THE ACTUAL INSTALLATION CONDITIONS AND ALL CHANGES TO THE ORIGINAL CONSTRUCTION DOCUMENTS. THESE CHANGES INCLUDE BUT ARE NOT LIMITED TO PLANS, ELEVATIONS, DETAILS, ROUTING, INVERT ELEVATIONS, DIMENSIONS, QUANTITIES, SIZING, CONTROLS, FINAL LOCATION AND ARRANGEMENT OF EQUIPMENT, ETC. AT THE COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE ELECTRONIC (PDF) VERSION TO THE ARCHITECT/ENGINEER.
- 29. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER AS SOON AS THE AIR AND WATER SYSTEMS ARE READY FOR BALANCING. A COMPLETE AIR AND WATER SYSTEM FLOW BALANCE FOR ALL EQUIPMENT THAT IS SHOWN, SCHEDULED, OR OTHERWISE IDENTIFIED IS REQUIRED. CONTRACTOR SHALL INCLUDE TIME IN THE CONSTRUCTION SCHEDULE TO FULLY TEST AND BALANCE SYSTEMS PRIOR TO OCCUPANCY TO ASSURE ADJUSTMENTS CAN BE MADE TO MITIGATE COMFORT ISSUES FOR OCCUPANTS POST CONSTRUCTION.
- 30. CONTRACTOR SHALL PROVIDE TRAINING TO THE OWNER'S MAINTENANCE AND/OR ENGINEERING PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN ALL EQUIPMENT AND SYSTEMS. TRAINING SHALL OCCUR PRIOR TO SUBSTANTIAL COMPLETION. CONTRACTOR SHALL ALSO PROVIDE SEASONAL TRAINING FOR ALL EQUIPMENT AND SYSTEMS THAT THEY COULD NOT FULLY TRAIN DUE TO OUTSIDE WEATHER CONDITIONS DURING THE ORIGINAL TRAINING TIMEFRAME.
- 31. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR, UNLESS NOTED OTHERWISE. WHERE DUCT LINING IS REQUIRED INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN INSIDE CLEAR DIMENSION.
- 32. COORDINATE THE EXACT LOCATIONS OF AIR DEVICES AND ALL OTHER CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AREA SMOKE DETECTORS, SPRINKLERS, LIGHTS, AND ELECTRICAL DEVICES. AIR DEVICES SHALL NOT BE WITHIN 3 FEET OF AN AREA SMOKE DETECTOR.
- 33. UNLESS NOTED OTHERWISE, PROVIDE BRANCH DUCT TO DIFFUSERS SAME SIZE AS DIFFUSER NECK. FLEXIBLE DUCT CONNECTIONS TO THE DIFFUSER SHALL BE NO MORE THAN 5 FEET IN LENGTH. IN ALL DUCT SYSTEMS, PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT THAT REQUIRES AN AIR BALANCE. ALL BRANCH DUCT TAKEOFFS TO AIR DEVICES SHALL HAVE A MANUAL BALANCE DAMPER INSTALLED AS CLOSE AS POSSIBLE TO THE BRANCH DUCT TAKEOFF TO MINIMIZE AIR DEVICE NOISE. ALL MANUAL BALANCING DAMPERS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION OR CONTROLLED BY A REMOTE ACTUATED DAMPER.
- 34. CONTROLLED BY A REMOTE ACTUATED DAMPER.

 34. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL HVAC EXPOSED-TO-VIEW ITEMS PAINT READY.
- 35. PROVIDE ROOM TEMPERATURE THERMOSTATS WITH TEMPERATURE INDICATOR AND SET POINT ADJUSTMENT, UNLESS NOTED OTHERWISE, FOR ALL EQUIPMENT THAT MAINTAINS SPACE TEMPERATURE. PREFERRED LOCATIONS ARE SHOWN ON THE PLANS. THERMOSTATS SHALL BE MOUNTED WITH CENTERLINE AT 46 INCHES ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. COORDINATE THE EXACT LOCATIONS OF THERMOSTATS WITH FURNITURE, FRAMING, MARKERBOARDS, SWITCHES, OUTLETS, AND ANY OTHER WALL MOUNTED ITEMS PRIOR TO ROUGH IN. COORDINATE TO NEATLY ALIGN ALL THERMOSTATS IN ELEVATION WITH ADJACENT EQUIPMENT FROM ALL DIVISIONS/TRADES.
- 42. INSTALLATION OF HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN ANY CFCS, HCFCS, OR HALONS.
- 43. AT TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE, AND UNTIL FINAL STARTUP OF THE HVAC SYSTEMS, ALL EQUIPMENT, DUCT, PIPE, AND OTHER DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE FOR PROTECTION TO REDUCE THE AMOUNT OF DUST, DEBRIS, AND MOISTURE WHICH MAY COLLECT IN THE SYSTEM(S). ANY ITEM NOT PROTECTED SHALL BE CLEANED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 44. IF THE HVAC SYSTEMS ARE OPERATED PRIOR TO AIR BALANCE, PROVIDE TEMPORARY AIR FILTRATION MEDIA THAT PROVIDES AT LEAST A MERV OF 8 AT ALL OUTDOOR, EXHAUST, AND RETURN AIR INTAKES/GRILLES. THESE TEMPORARY AIR FILTERS SHALL BE REMOVED PRIOR TO AIR BALANCE. ALL HVAC FILTERS SHALL BE CHANGED PRIOR TO AIR BALANCE AND COMMISSIONING, AND AGAIN AT SUBSTANTIAL COMPLETION WITH FILTERS PER THE CONSTRUCTION DOCUMENTS.



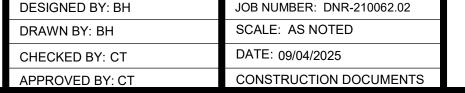




28-0300 28-0311

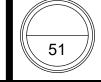






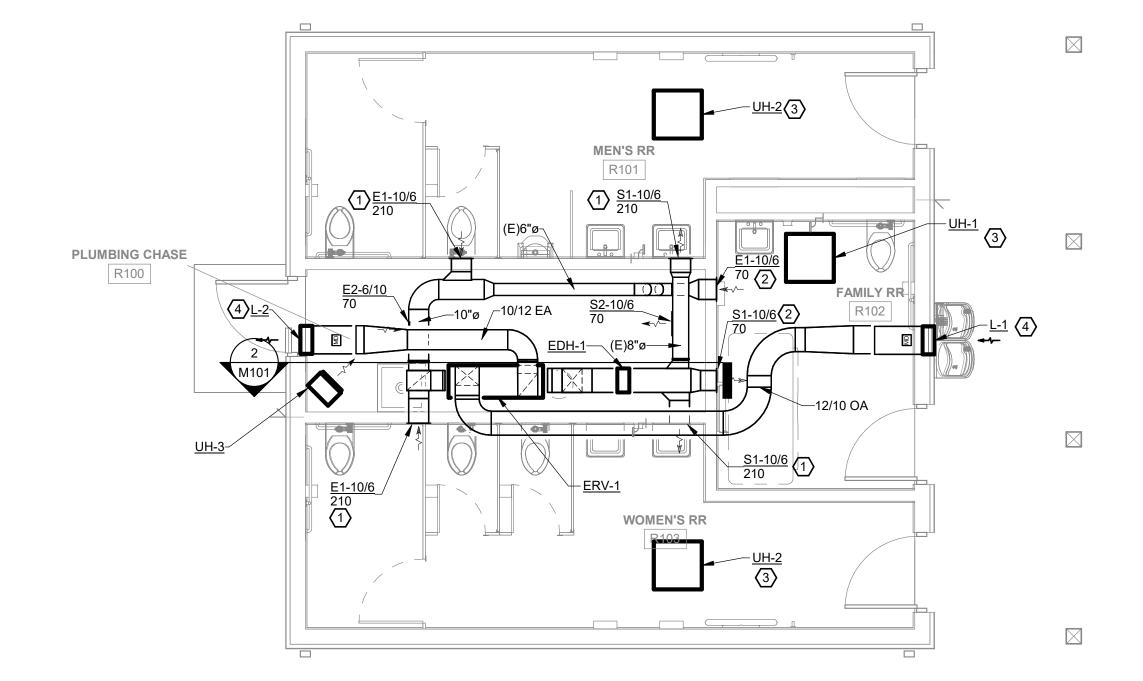
GENERAL INFORMATION MECHANICAL



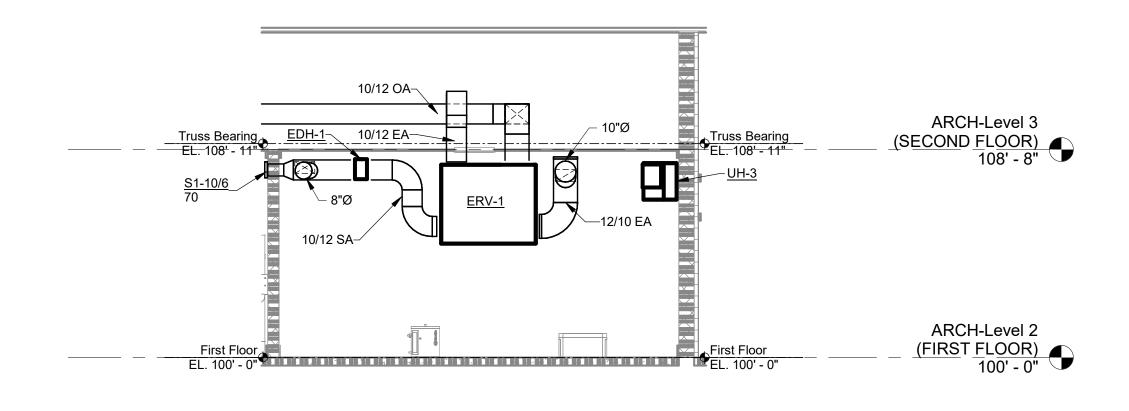


○SHEET KEYNOTES:

- 1. LOCATE TOP OF GRILLE 6" BELOW CEILING.
- 2. BOTTOM OF GRILLE LOCATED 6'-10" ABOVE FINISHED FLOOR.
- CEILING MOUNTED UNIT HEATER. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.
- 4. COORDINATE LOUVER LOCATION WITH ARCHITECTURAL ELEVATION.

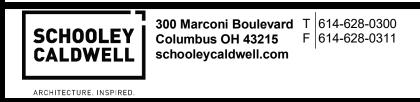


RESTROOM - FIRST FLOOR PLAN - MECHANICAL

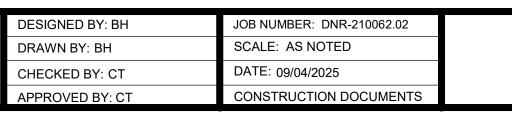


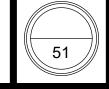






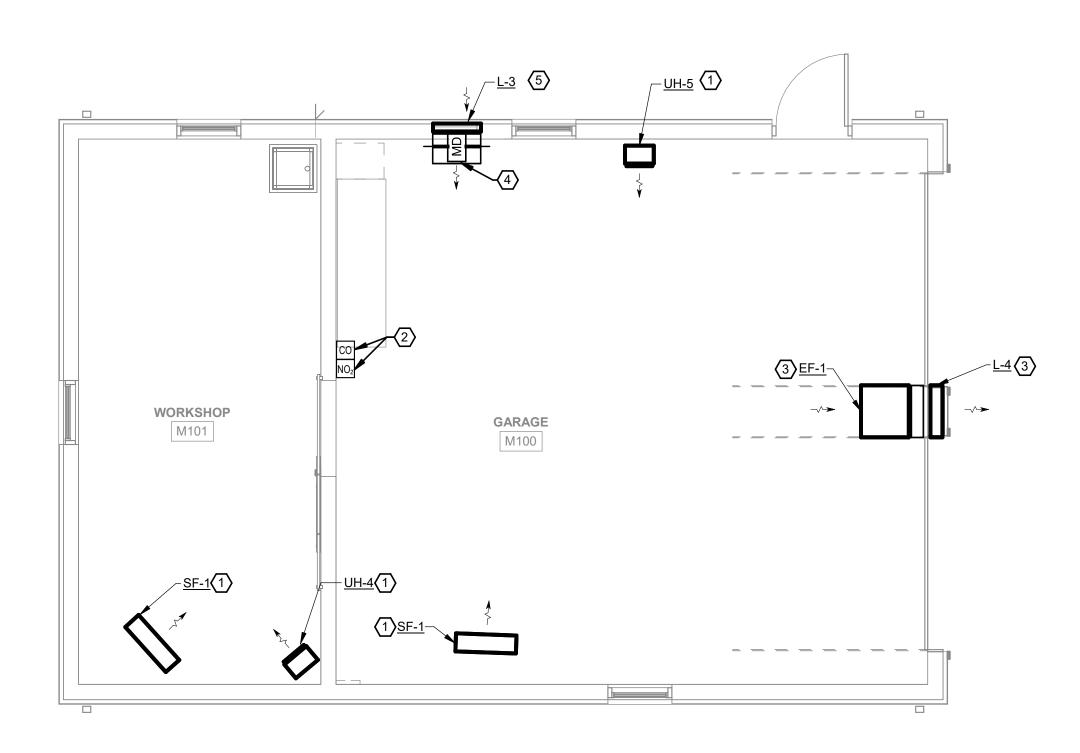




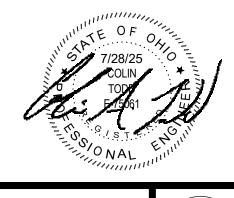


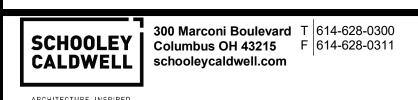
○SHEET NOTES:

- 1. MOUNT TOP OF UNIT 3" BELOW CEILING.
- 2. PROVIDE CARBON MONOXIDE AND NITROGEN DIOXIDE SENSOR.
 SENSOR SHALL BE 24V THAT UPON ALARM TRIGGERS AN AUDIBLE AND
 VISUAL ALARM AS WELL AS ENABLING EF-1 AND OPENING L-3. REFER TO
 SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION. BASIS OF
 DESIGN SHALL BE MACURCO CX-6.
- 3. MOUNT 9'-2" ABOVE FINISHED FLOOR.
- 4. PROVIDE BIRD SCREEN OVER OPENING.
- 5. COORDINATE WITH ARCHITECTURAL FOR LOCATION.



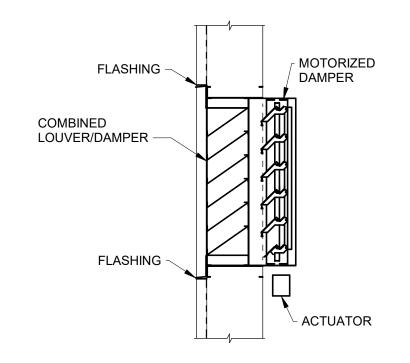
1 MAINTENANCE BUILDING - FIRST FLOOR PLAN - MECHANICAL
1/4" = 1'-0"



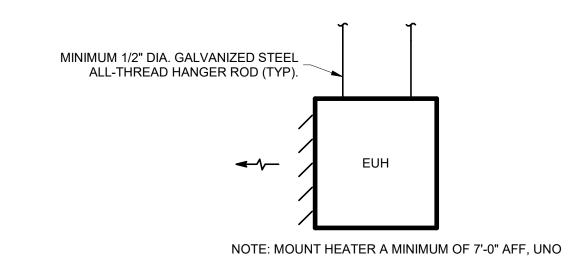




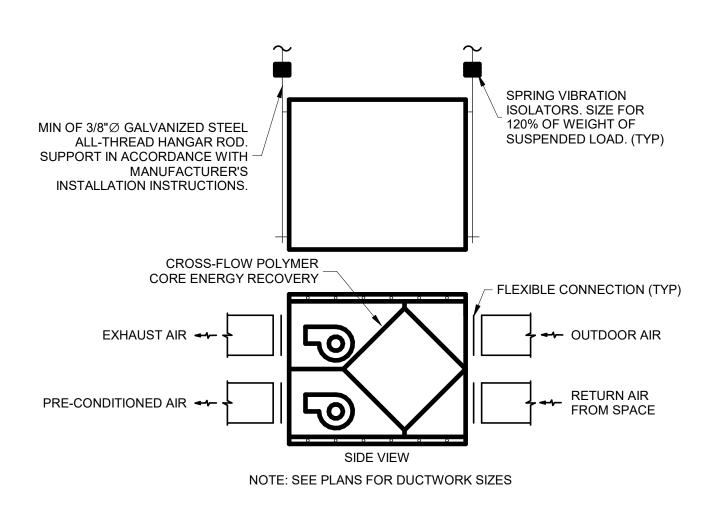




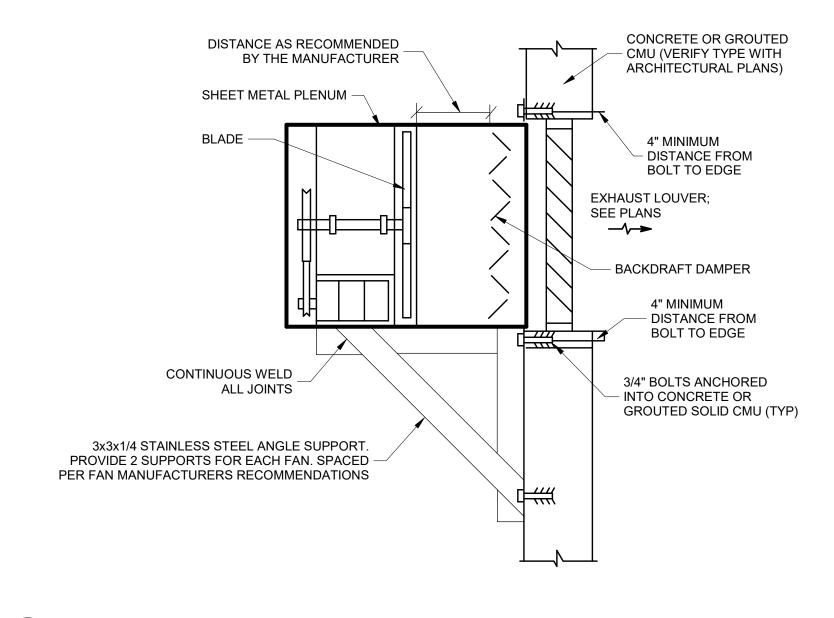


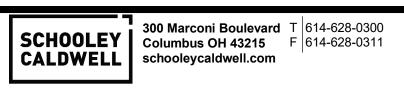


2 DETAIL - HUNG ELECTRIC UNIT HEATER

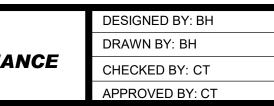


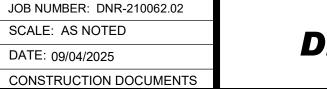
(3) DETAIL - ENERGY RECOVERY VENTILATOR











DETAIL - PROPELLER EXHAUST FAN



1. PROVIDE WITH EC MOTOR.

2. PROVIDE WITH MOTOR COVER AND WALL HOUSING. 3. PROVIDE WITH PROPELLER GUARD OVER OPENING.

4. FAN PLUGS INTO ELECTRICAL OUTLET. CONTROLLED BY PULL CORD.

	ELECTRIC DUCT HEATER SCHEDULE									
UN	IIT DATA	BASIS OF DE	SIGN		HEATER DA	TA	ELEC	TRICAL D		
TAG	FUNCTION	MANUFACTURER	MODEL	CAPACITY (KW)		DUCT HEIGHT (IN)	STAGES	VOLTS	PHASE	SCHEDULE NOTES
EDH-1	OUTDOOR AIR	MARKEL	HF	5.0	12	10	1	208	1	ALL
	1. PROVIDE WITH CONTROL BOX WITH 1/2" INSULATION. 2. PROVIDE WITH FACTORY CONTROLLER.									

	LOUVER SCHEDULE											
1U	NIT DATA	BASIS OF DE	SIGN	DIMENSIONS			PER	FORMANCE I	DATA	GENERA	L DATA	
TAG	FUNCTION	MANUFACTURER	MODEL	DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)	AIRFLOW (CFM)	FREE AREA (SQ. FT)	VELOCITY (FPM)	BIRDSCREEN	DRAINABLE BLADE	SCHEDULE NOTES
L-1	OUTDOOR AIR	GREENHECK	ESD-635	6.0	14.0	30.0	560	1.30	450	Yes	Yes	ALL
L-2	EXHAUST AIR	GREENHECK	ESJ-635	6.0	14.0	30.0	560	1.40	400	Yes	No	ALL
L-3	OUTDOOR AIR	GREENHECK	ESD-435	4.0	24.0	12.0	425	0.70	629	Yes	Yes	ALL
L-4	EXHAUST AIR	GREENHECK	ESJ-635	6.0	26.0	26.0	425	2.20	200	Yes	No	ALL

		ENERGY RECOVERY VENTILATOR SCHEDULE (PART 1 OF 2)																								
	UNIT DA	ATA	BASIS C	OF DESIGN		SUPPLY FAN DATA					EXHAUST FAN DATA															
										MOTOR	1									MOTOR/						
			MANUFAC		AIRFLOW	MIN OA	ESP	TSP	FAN	/DRIVE	# OF	HP	BHP			AIRFLOW	ESP	TSP	FAN	DRIVE	# OF	HP	BHP		Í	
TAG	LOCATION	FUNCTION	TURER	MODEL	(CFM)	(CFM)	(IN WG)	(IN WG)	TYPE	TYPE	FANS	(EACH)	(EACH)	VOLTS PHASE	VFD	(CFM)	(IN WG)	(IN WG)	TYPE	TYPE	FANS	(EACH)	(EACH)	VOLTS	PHASE	VFD
ERV-	PLUMBING CHASE	EXHAUST/VENT	GREENHECK	MINICORE-5-VG-P	560	560 560 0.50 0.60 FC DIRECT 1 0.50 0.25 20				208 1	No	560	0.50	0.60	FC	DIRECT	1	0.50	0.34	208	1	No				

						E	NEF	RGY	RE	CO	/ER	Y V	EN	IILA	TO	R SC	CHEDUL	= (PAF	RT 2 OF 2)			
			Н	EAT E	EXCH	ANGE	R (EF	F + 5	5% SL	JMME	R / 56	5% WI	NTEF	R)			FILTER D	ATA	GEI	NERAL DATA		
	,	SUMM	ER S	4	S	SUMM	ER E	4	V	VINTE	ER SA	1	WINTER EA									
	EAT	EAT	LAT	LAT	EAT	EAT	LAT	LAT	EAT	EAT	LAT	LAT	EAT	EAT	LAT	LAT		EA-FIL				
	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	OA-FILTER	TER	GENERATOR		WEIGHT	SCHEDUL
ΓAG	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(MERV)	(MERV)	POWER	REDUNDANT	(LBS)	NOTES
RV-1	88.5	73.2	82.9	69.7	80.0	66.5	85.6	70.4	8.6	6.2	44.8	36.1	68.0	52.7	31.7	29.8	8	8	No	No	215	ALL

	AIR DEVICE SCHEDULE									
UN	NIT DATA	BASIS OF DES	SIGN			GENE	RAL DATA			
							INTEGRAL			
							VOLUME	MAX		
TAG	FUNCTION	MANUFACTURER	MODEL	NECK SIZE	FACE SIZE	MATERIAL	DAMPER	NC	SCHEDULE NOTES	
S1	SUPPLY	PRICE	620L	10" x 6"	NECK SIZE + 1.75"	ALUMINUM	No	25		
S2	SUPPLY	PRICE	SDGE	10" x 6"	NECK SIZE + 2"	ALUMINUM	Yes	25		
E1	EXHAUST	PRICE	630L	10" x 6"	NECK SIZE + 1.75"	ALUMINUM	No	25		
E2	EXHAUST	PRICE	SDGER	10" x 6"	NECK SIZE + 2"	ALUMINUM	Yes	25		

UNI	T DATA	BASIS OF DE	SIGN	PERFO	RMANCE	DATA		ELEC	CTRICAL	DATA		
TAG	TYPE	MANUFACTURER	MODEL	AIRFLOW (CFM)	EAT DB (°F)	LAT DB (°F)	CAPACITY (KW)		VOLTS	PHASE	GENERATOR POWER	SCHEDULE NOTES
UH-1	CEILING	INDEECO	CCI	160	65.0	95.0	1.5	1	208	1	No	1-3,5
UH-2	CEILING	INDEECO	CCI	160	55.0	115.0	3.0	1	208	1	No	1-3,5
UH-3	HUNG	INDEECO	UCI	510	65.0	83.0	3.0	1	208	1	No	1-4
UH-4	HUNG	INDEECO	UCI	700	65.0	88.0	5.0	1	208	1	No	1-4
UH-5	HUNG	INDEECO	UCI	700	65.0	110.0	10.0	1	208	1	No	1-4

3. FINAL COLOR TO BE SELECTED FROM MANUFACTURE'S FULL RANGE.

4. PROVIDE WITH SUPPORT BRACKET. REFER TO MECHANICAL DETAILS FOR ADDITIONAL SUPPORT INFORMATION.

5. PROVIDE WITH CEILING MOUNTING KIT FOR APPROPRIATE FRAME SIZE.

300 Marconi Boulevard T 614-628-0300 **Columbus OH 43215** F 614-628-0311 SCHOOLEY | schooleycaldwell.com

SEQUENCE OF OPERATION:

BATHROOM VENTILATION

ORDERED ACCORDING TO PRIORITY:

PRIORITY 1 - GAS MONITORING SYSTEM:

PRIORITY 2 - MANUAL SUMMER VENTILATION:

SHALL RUN FOR A MINIMUM OF 10 MINUTES (ADJUSTABLE) UPON TRIP.

THE UNIT SHALL OPERATE UNDER ITS FACTORY CONTROLS.



ERV PROVIDES CODE MINIMUM EXHAUST AND MAKEUP AIR TO THE SPACE AND WILL RUN UPON OCCUPANCY TRIP IN ANY SPACE. THE UNIT

ELECTRIC DUCT HEATER SEQUENCE
THE ELECTRIC DUCT HEATER SHALL BE TIED TO THE ERV FANS THAT RUN ACCORDING TO THE SEQUENCE ABOVE. WHEN CALLED TO RUN

IF SUPPLY AIR TEMPERATURE FROM THE ERV DROPS BELOW SETPOINT (50 DEGREES, ADJUSTABLE), HEATING SHALL BE ENABLED.

ELECTRIC HEATER SEQUENCE
CEILING MOUNTED UNIT HEATERS AND SUSPENDED ELECTRIC UNIT HEATERS SHALL ACTIVATE UPON A SIGNAL FROM ITS INTEGRAL

GAS DETECTION SYSTEM SEQUENCE (EF-1)
THE GARAGE IS EQUIPPED WITH HIGH AIR CHANGE EXHAUST SYSTEM TO QUICKLY REMOVE VEHICLE EXHAUST GASES AND TO PROVIDE ADDITIONAL SUMMER VENTILATION. EF-1, SHALL BE ALL INTERLOCKED TO THE MOTORIZED DAMPER AT THE OUTDOOR AIR LOUVER (L-3). EF-1 SHALL BE ENERGIZED AND THE MOTORIZED DAMPER SHALL OPEN ACCORDING TO THE FOLLOWING 2 ACTIVATION SEQUENCES,

UPON DETECTION OF GAS BY SENSORS IN THE GARAGE, THE SYSTEM DAMPERS SHALL OPEN AND ONCE VERIFIED BY THE DAMPER END SWITCHES, THE EXHAUST FAN SHALL BE ENERGIZED. VISUAL AND AUDIBLE ALARMS ON THE SENSOR SHALL ALSO BE ACTIVATED. EF-1 WILL CONTINUE TO RUN FOR A MINIMUM PERIOD OF 3 MINUTES FOLLOWING THE RETURN TO NORMAL AS INDICATED BY THE GAS DETECTION PANEL. UPON RETURN TO NORMAL, SYSTEM DAMPERS SHALL FULLY CLOSE. SETPOINTS FOR ACTIVATION OF GAS EXHAUST

A ROOM OVERRIDE SWITCH WITH A PILOT LIGHT WILL OPEN THE SYSTEM DAMPERS AND ONCE THE DAMPERS HAVE BEEN VERIFIED BY THE DAMPER END SWITCHES, ENERGIZE THE EXHAUST FAN THROUGH A TIMER. THE PILOT LIGHT PROVIDES INDICATION THAT THE NORMAL AUTOMATIC SEQUENCE HAS BEEN MANUALLY OVERRIDDEN. THE TIMER SHALL PERMIT THE SYSTEM TO RUN FOR A PERIOD OF 3 HOURS

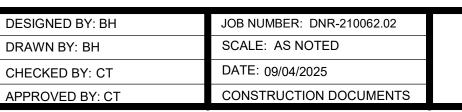
THERMOSTAT WHEN THE SPACE TEMPERATURE DROPS BELOW SETPOINT (65 DEGREES, ADJUSTABLE)

SYSTEM SHALL BE 50 PPM (ADJUSTABLE) FOR CO AND 5 PPM (ADJUSTABLE) FOR NO2.

(ADJUSTABLE) AFTER THE ROOM OVERRIDE SWITCH HAS BEEN ACTIVATED.



2. PROVIDE WITH FACTORY CONTROLS.



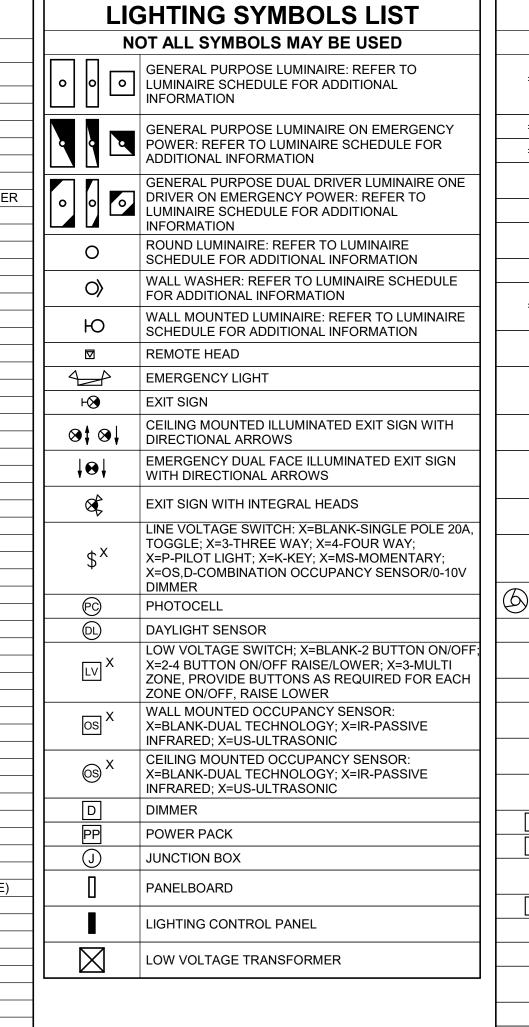






NOT ALL	ABBREVIATIONS MAY BE USED.
ABBREVIATION	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A AC	AMPERE ALTERNATING CURRENT OR AIR CONDITIONER
AF/AFI/AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ANNC	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
AWG BPS	AMERICAN WIRE GAUGE BOLTED PRESSURE SWITCH
C	CONDUIT
СВ	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
DC	DIRECT CURRENT
DP EC	DISTRIBUTION PANELBOARD ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GC GEN	GENERAL TRADES CONTRACTOR GENERATOR
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KVA KW	KILOVOLT AMPERE KILOWATT
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING OR LIGHT
MC	METAL CLAD RACEWAY
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC MDP	MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL
MH	MOUNTING HEIGHT (CENTERLINE OF DEVICE)
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MTS	MANUAL TRANSFER SWITCH
NAC NC	NOTIFICATION APPLIANCE CIRCUIT NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN
OCC	OCCUPANCY
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSH BUTTON
PVC PWR	POLYVINYL CHLORIDE (PLASTIC PIPE) POWER
RCPT/REC/RECPT	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
STP	SHIELDED, TWISTED PAIR
TC	TIME CLOCK
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
WAP	WATT WIRELESS ACCESS POINT
WH	WATTHOUR
WP	WEATHERPROOF/WEATHER RESISTANT
XFMR	TRANSFORMER
	IMPERANCE
Z 	IMPEDANCE PHASE

ABBREVIATIONS



P	OWER SYMBOLS LIST	FIR	E ALARM	SYMBOLS LIST
N	OT ALL SYMBOLS MAY BE USED	N	OT ALL SYMB	OLS MAY BE USED
X	DUPLEX RECEPTACLE: X=TYPE, Y"=NON-STANDARD MOUNTING HEIGHT, Z=SPECIAL DESIGNATION	F	MANUAL PULL S	TATION (46" MH TYPICAL)
Z	(S-AUTOMATICALLY CONTROLLED); (18" MH TYPICAL) *NOTATIONS APPLY TO ALL RECEPTACLES*	<u> </u>	HEAT DETECTOR	7
=	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	<u> </u>	DUCT MOUNTED	HEAT DETECTOR
-	LOCALLY SWITCHED DUPLEX RECEPTACLE	(s)	SMOKE DETECT	OR
⊜ ^{F,C}	FLOOR OR CEILING MOUNTED DUPLEX RECEPTACLE: F=FLOOR, C=CEILING)	DUCT MOUNTED	SMOKE DETECTOR
₩	DUPLEX RECEPTACLE: ELEVATED (46" MH TYPICAL)	<u>(s)</u>	Boot moonties	
#	DOUBLE-DUPLEX RECEPTACLE WITH SINGLE COVER PLATE	S	SPEAKER (80" AF	FF TO BOTTOM OF DEVICE)
0	SIMPLEX RECEPTACLE WITH COVER PLATE	×	SPEAKER WITH S DEVICE)	STROBE (80" AFF TO BOTTOM OF
\rightleftharpoons WP	WEATHER RESISTANT DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING WITH IN-USE COVER	▼ F	,	O BOTTOM OF DEVICE)
Ю	WALL MOUNTED SPECIAL RECEPTACLE: REFER TO PLANS FOR ADDITIONAL INFORMATION		HORN WITH STR DEVICE)	OBE (80" AFF TO BOTTOM OF
⊚ ^{F,C}	FLOOR OR CEILING MOUNTED SPECIAL RECEPTACLE: F=FLOOR, C=CEILING REFER TO PLANS FOR ADDITIONAL INFORMATION	×	STROBE (80" AFF	TO BOTTOM OF DEVICE)
ФX	STANDARD DISCONNECT SWITCH: X=DISCONNECT SIZE, Y=NUMBER OF POLES	X	WALL MOUNTED DEVICE)	STROBE (80" AFF TO BOTTOM C
X	STANDARD FUSED DISCONNECT SWITCH: X=DISCONNECT SIZE, Y=FUSE SIZE, Z=NUMBER OF	O F	BELL, 120V	
Z • Y Z	POLES	WF	WATER FLOW S	WITCH: DIVISION 28 TO PROVIDE
⊠ ^X	MOTOR STARTER: X=STARTER SIZE, Y=NUMBER OF POLES	Τ	WATER TAMPER	SWITCH: DIVISION 28 TO PROVI
X	COMBINATION MOTOR STARTER/DISCONNECT	PV	POST INDICATOR	R VALVE
⊠₁ Y 7	SWITCH: X=STARTER SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES	(AIO)	ADDRESSABLE I	NPUT-OUTPUT MODULE
	MOTOR: PROVIDE POWER AS INDICATED	(IM)	ISOLATION MOD	
		△ co	CARBON MONO	
M	UTILITY METER	DH	MAGNETIC DOOI	
\$ ^M	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER		FIREMAN'S PHOI	NE TOR STATION FOR DUCT SMOKE
J	JUNCTION BOX		DETECTOR	TOR STATION FOR DUCT SMOKE
	TRANSFORMER			REMOTE INDICATOR STATION F ETECTOR (60" AFF TO CENTERLII
НН	HANDHOLE/PULL BOX: SEE DETAILS FOR ADDITIONAL INFORMATION	\boxtimes	REMOTE INDICA	TOR TEST SWITCH
_	MANHOLE: SEE DETAILS FOR ADDITIONAL	R	FAN SHUT-DOWI	N RELAY
МН	INFORMATION	FAAP	FIRE ALARM ANN	NUNCIATOR PANEL
СР	CONTROL PANEL	FACP	FIRE ALARM CON	
SPD	SURGE PROTECTIVE DEVICE	NAC		PPLIANCE CIRCUIT PANEL
	PANELBOARD		TEXT NOTIFICAT	ION APPLIANCE PANEL
VFD	VARIABLE FREQUENCY DRIVE			
•	PUSH BUTTON	G	ENERAL S	SYMBOLS LIST
	POWER POLE	1	NOT ALL SYME	BOLS MAY BE USED
Φ	CORD REEL			NEW WORK (VISIBLE)
<u> </u>	GROUND ROD			NEW WORK (HIDDEN)
en x	POKE THROUGH SERVICE FITTING: X=TYPE			EXISTING WORK (VISIBLE)
-				EXISTING WORK (HIDDEN)
SE	CURITY SYMBOLS			EXISTING TO BE DEMOLISHI
		1		ELITLIDE

NOTE: NOT ALL SYMBOLS MAY BE USED.

CARD READER DOOR LATCH ELECTRIC LATCH

INTERCOM KEY PAD

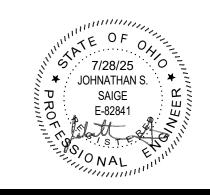
LATCH MONITOR POWER SUPPLY REQUEST EXIT ELECTRIC STRIKE

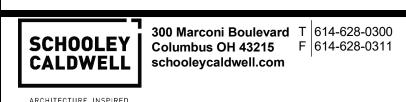
	NOT	ALL SYME	BOLS MAY BE USED
			NEW WORK (VISIBLE)
$\ $			NEW WORK (HIDDEN)
1			EXISTING WORK (VISIBLE)
, 1			EXISTING WORK (HIDDEN)
			EXISTING TO BE DEMOLISHED
			FUTURE
	SYMBOL		DESCRIPTION
	1	KEYNOTE	
1	\triangle	REVISION TE	RIANGLE
1			

WATER TAMPER SWITCH: DIVISION 28 TO PROVIDE

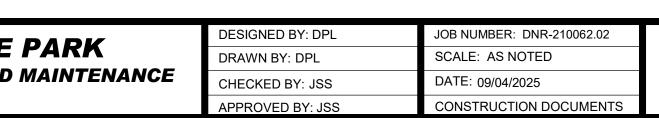
WALL MOUNTED REMOTE INDICATOR STATION FOR

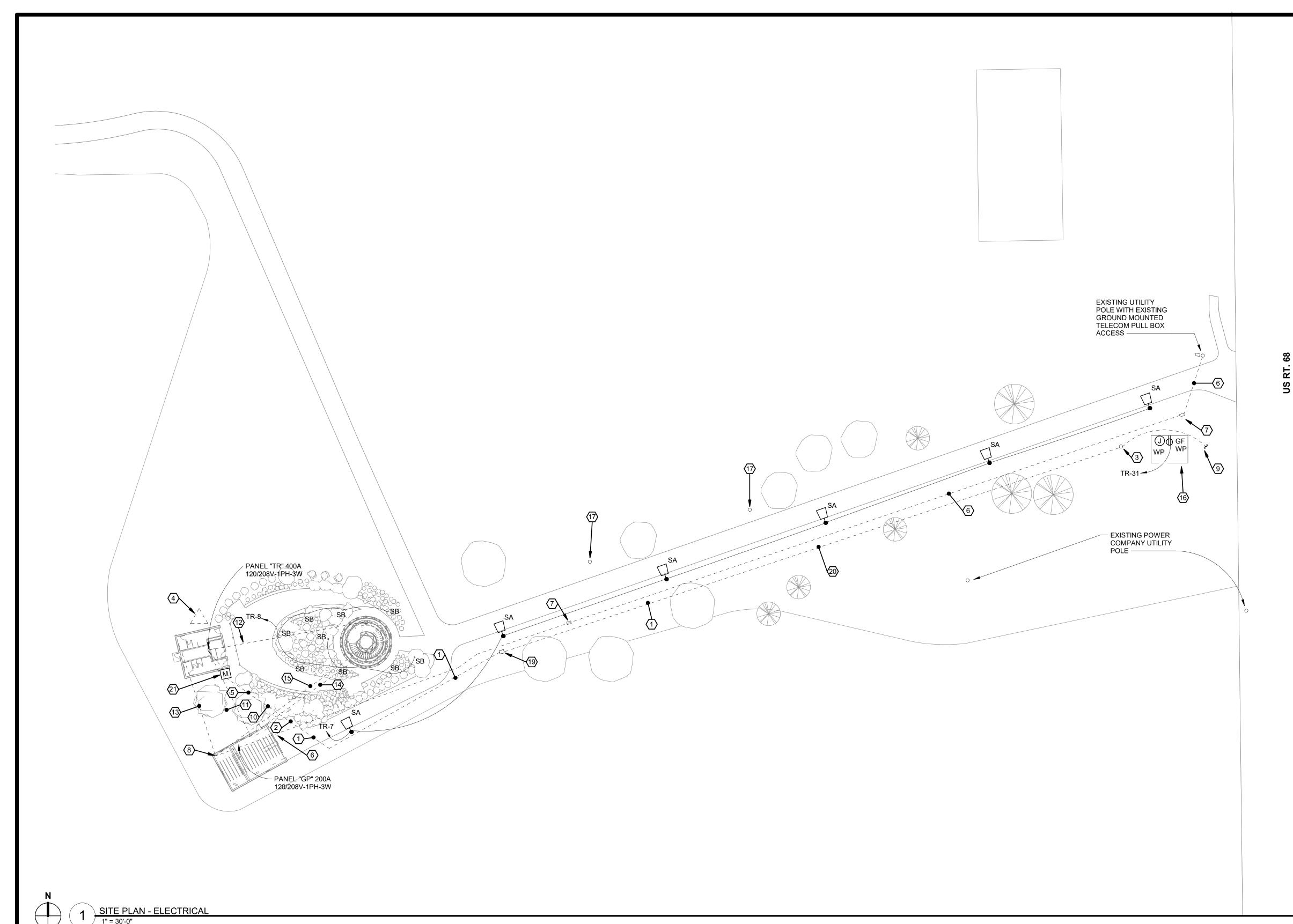
DUCT SMOKE DETECTOR (60" AFF TO CENTERLINE)











GENERAL SHEET NOTES:

- A. UNLESS OTHERWISE NOTED, MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1.25", DIRECT BURIED, PER DETAIL 2/E-501.
- B. UNDERGROUND CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL DETERMINE EXACT ROUTING.
- C. COORDINATE ALL SITE WORK WITH OTHER TRADES AND EXISTING UNDERGROUND UTILITIES.
- D. ALL POLE MOUNTED LIGHTING FIXTURES SHALL HAVE A TRANSIENT VOLTAGE SURGE ARRESTOR MOUNTED IN THE POLE BASE ACCESSIBLE THROUGH THE HAND HOLE. THE SURGE ARRESTOR SHALL BE DITEK MODEL DTK-DL277 OR APPROVED EQUAL.
- E. ALL EXTERIOR CONDUITS RISING ABOVE GRADE, ENTERING MANHOLES, HANDHOLES, BUILDING, AND OR EQUIPMENT SHALL BE RGC FROM THE LAST 6 FEET OF TRANSITION FROM BELOW GRADE.
- F. UNLESS NOTED, OTHERWISE ALL LIGHTING CIRCUITS SHALL BE CONNECTED WITH A MINIMUM #8 CONDUCTORS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL CIRCUITS MAINTAIN A 3% VOLTAGE DROP MAXIMUM THROUGHOUT THE CIRCUIT. INCREASE WIRE SIZE AS REQUIRED TO MAINTAIN VOLTAGE DROP REQUIREMENTS.
- G. CALL BEFORE YOU DIG #811.

○SHEET KEYNOTES:

- 1. CONCRETE ENCASED DUCT BANK, REFER TO DETAIL 1/E501.
- 2. DIRECT BURY CONDUIT, REFER TO DETAIL 2/E501.
- 3. NEW UTILITY POLE AND OVERHEAD AND PRIMARY RISER LINES TO BE FURNISHED BY AES POWER WITHIN PROPERTY LINE OF ODNR. CONTRACTOR SHALL STUB PRIMARY DUCT BANK UP AT BOTTOM OF
- 4. GROUNDING TRIANGLE AND TEST WELL. REFER TO DETAIL 7 AND 8/E501. EXTEND GROUNDING ELECTRODE TO GROUND BAR IN MAIN ELECTRICAL
- 5. INCOMING ELECTRICAL DUCT BANKS SHALL TURN UP AT CT CABINET. REFER TO E101 FOR EXTENSION INTO BUILDING.
- 6. PROVIDE TELECOM PATHWAYS WITH 4-CELL FABRIC INNERDUCT WITHIN CONDUIT. EQUAL TO MAXCELL DIRECT BURIED, PER DETAIL 2/E501.
- 7. GROUND MOUNTED PULL BOX 17" x 30" QUAZITE PG STYLE, REFER TO DETAIL 3/E501.
- 8. INCOMING TELECOM DUCT BANKS SHALL TURN UP WITHIN MAINTWENANCE BUILDING, WORKSHOP #105. REFER TO E101 FOR EQUIPMENT LOCATION WITHIN ROOM.
- 9. AES POWER SHALL EXTEND OVERHEAD AERIAL LINES FROM NEARBY DISTRIBUTION TO RISER POLE LOCATED ON ODNR PROPERTY. REFER TO KEYNOTE #3.
- 10. PROVIDE 3#600KCMIL, 4"C FROM PANEL "TR" UNDERGROUND TO NEW UTILITY POLE AND UP POLE TO TRANSFORMERS. PROVIDE 6' EXTRA CONDUCTORS FOR UTILITY COMPANY CONNECTION.
- 11. PROVIDE 3#3/0, 1#6(G)-2"C FROM PANEL "TR" UNDERGROUND TO PANEL
- 12. PROVIDE A 1.25" CONDUIT WITH (3 SETS) 2#12, 1#12(G) FOR TOWER LIGHTING AND POWER.
- 13. PROVIDE A 2" CONDUIT WITH PULLWIRE FOR FUTURE COMMUNICATION RESTROOM BUILDING. CAP AND TAG UNDERGROUND SPARE.
- 14. PROVIDE A 1.25" CONDUIT WITH PULLWIRE UNDERGROUND FROM PANEL "GR" TO TOWER FOR FUTURE ELECTRICAL.
- 15. PROVIDE A 2" CONDUIT WITH PULLWIRE UNDERGROUND FROM GARAGE WORK SHOP TO TOWER FOR FUTURE COMMUNICATION. CAP AND TAG UNDERGROUND SPARE.
- 16. WATER METER ENCLOSURE AND HEATER. PROVIDE A WEATHERPROOF JUNCTION BOX AND WEATHERPROOF GFCI DUPLEX AT METER **ENCLOSURE. COORDINATE EXACT LOCATION WITH PLUMBING** CONTRACTOR. PROVIDE A JUNCTION BOX NEAR PANEL "TR". FROM A 20/1 CIRCUIT BREAKER IN PANEL "TR", PROVIDE 2#12, 1#12(G)-3/4"C TO JUNCTION BOX LOCATED NEAR PANEL. FROM JUNCTION BOX, PROVIDE 2 #3, 1#10(G)-1 1/4"C (BRANCH CIRCUIT IS SIZED FOR VOLTAGE DROP) UNDERGROUND TO WEATHERPROOF JUNCTION BOX IN WATER METER ENCLOSURE. FROM JUNCTION BOX IN METER ENCLOSURE, PROVIDE 2# 12, 1#12(G)-3/4"C TO WEATHERPROOF GFCI DUPLEX RECEPTACLE IN WATER MÉTER ENCLOSURE.
- 17. APPROXIMATE LOCATION OF EXISTING POWER COMPANY UTILITY POLE TO BE REMOVED BY THE POWER COMPANY.
- 18. APPROXIMATE LOCATION OF UTILITY COMPANY POWER POLES.
- 19. APPROXIMATE LOCATION OF NEW AES POWER COMPANY TRANSFORMER. COORDINATE WITH AES POWER AND PROVIDE TRANSFORMER PAD TO AES STANDARD.
- 20. PROVIDE TWO (2) 4" PVC CONDUITS UNDERGROUND FOR AWS POWER PRIMARY FEDERS.
- 21. METER AND CT CABINET LOCATION ON SIDE OF RESTROOM. CONTRACTOR TO PROVIDE PER AES STANDARDS.

``*ら*`: 7/28/25 ´.´ ★ JOHNATHAN S.



300 Marconi Boulevard T 614-628-0300 **Columbus OH 43215** F 614-628-0311 schooleycaldwell.com









SITE PLAN - ELECTRICAL

	Panel: TR											
	Location: FAMIL						120/20	8 Single	е		. Rating: 22 KAIC	
	Supply From: UTILIT	Y TF	RANSFO	RME	R F	Phases:	1			Mai	ns Type: M.C.B.	
	Mounting: Surface	е				Wires:	3			Mains	Rating: 400 A	
	Enclosure: Type 1									MCE	Rating: 400 A	
скт	Circuit Description											
1	LIGHTING	20	•).4	0.1			1	20 A	'	CKT 2
3	RECEPTACLE	20				U	0.5	0.4	1	20 A		4
5	FLUSH/SINK VALVES	20		().4	0.4	0.0	<u> </u>	1	20 A		6
7	SITE LIGHTING	20					0.3	0.2	1	20 A		8
9	ELEC HAND DRYER	20		1	1.0	1.0			1	20 A		10
11	ELEC HAND DRYER	20					1.0	0.2	1	20 A		12
13	UH-3			1	1.5	1.5				00.4	LILLO MENIO DOCM	14
15		20	A 2				1.5	1.5	2	20 A	UH-2 MEN'S ROOM	16
17	LILLO MACATANO DOCA	-00	A 2	1	1.5	0.8				45.		18
19	UH-2 WOMEN'S ROOM	20	A 2				1.5	0.8	2	15 A	V UH-1	20
21	E10/11/4	20	A 0	2	2.0	2.5			_	20.4	EDII 4	22
23	EWH-1	30	A 2				2.0	2.5	2	20 A	EDH-1	24
25	TOWER GFCI	20	A 1	().2	0.9			2	20.4	A ERV-1	26
27	TOWER STAIR LTG	20	A 1				0.2	0.9	2	20 A	K ERV-I	28
29	TWR PLAT LTG	20	A 1	().2	0.3			1	20 A	FACP	30
31	WATER METER HEATER	20	A 1				1.9	0.2	1	20 A	LTG CNTR PANEL	32
33	BABY CHANGING	20	A 1	().3	1.0			1	20 A	ELEC HAND DRYER	34
35	ELEC HAND DRYER	20	A 1				1.0	0.0	1	20 A	SPARE	36
37	SPARE	20	A 1	(0.0	0.0			1	20 A	SPARE	38
39	SPD	30	A 2				0.0	0.0	2	200	A POWER	40
41	380	30	A 2		0.0	0.0] 2	200 /	A POWER	42
		To	otal Loa	d:	15.9	kVA	16.6	kVA				•
		To	tal Amp	s:	15	53 A	159	A				
			Conn.	Load	:	Deman	d Load:		emand			
			32.3	κVA		32.3	kVA		155 A			

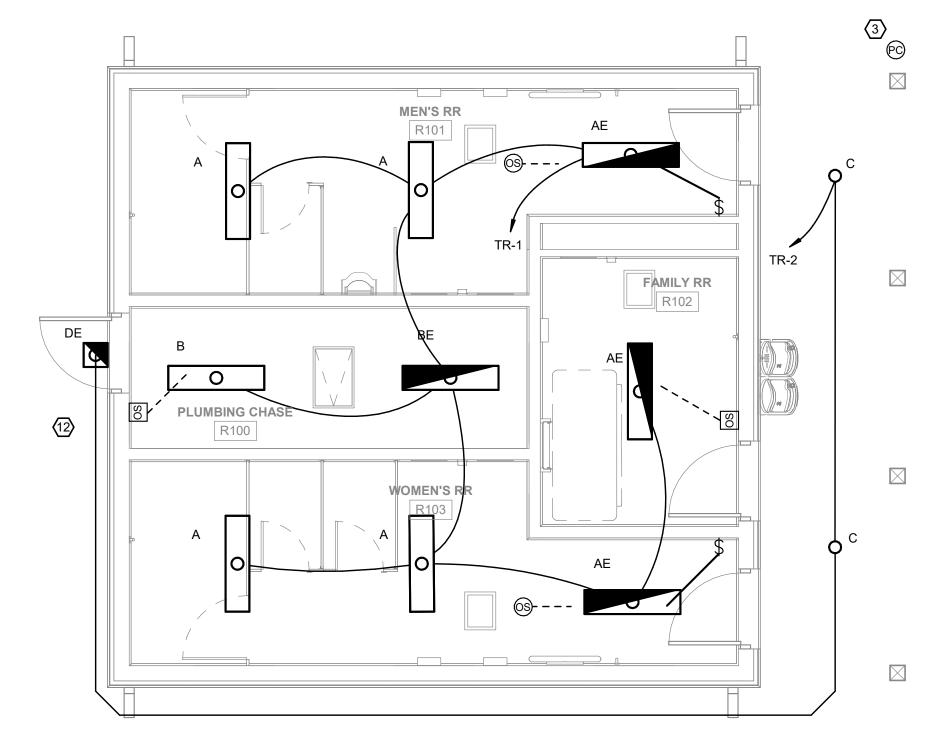
	LIGHTING RELAY PANEL SCHEDULE													
ZONE	DESCRIPTION	CON	CONTROL											
ZONE	DESCRIPTION	ON	OFF	CIRCUIT										
1	RESTROOM CANOPY LIGHTING	PC	TC	TR-2										
2	SITE LIGHTING	PC	TC	TR-7										
3	BOLLARD LIGHTING	PC	TC	TR-8										
4	TOWER STAIR LIGHTING	PC	TC	TR-27										
5	TOWER PLATFORM LIGHTING	PC	TC	TR-29										
6	SPARE	-	-	-										
7	SPARE	-	-	-										
8	SPARE	-	-	-										
CONTRO	DL LEGEND													
	CAL SWITCH NOTE: ME CLOCK -													

OS: OCCUPANCY SENSOR

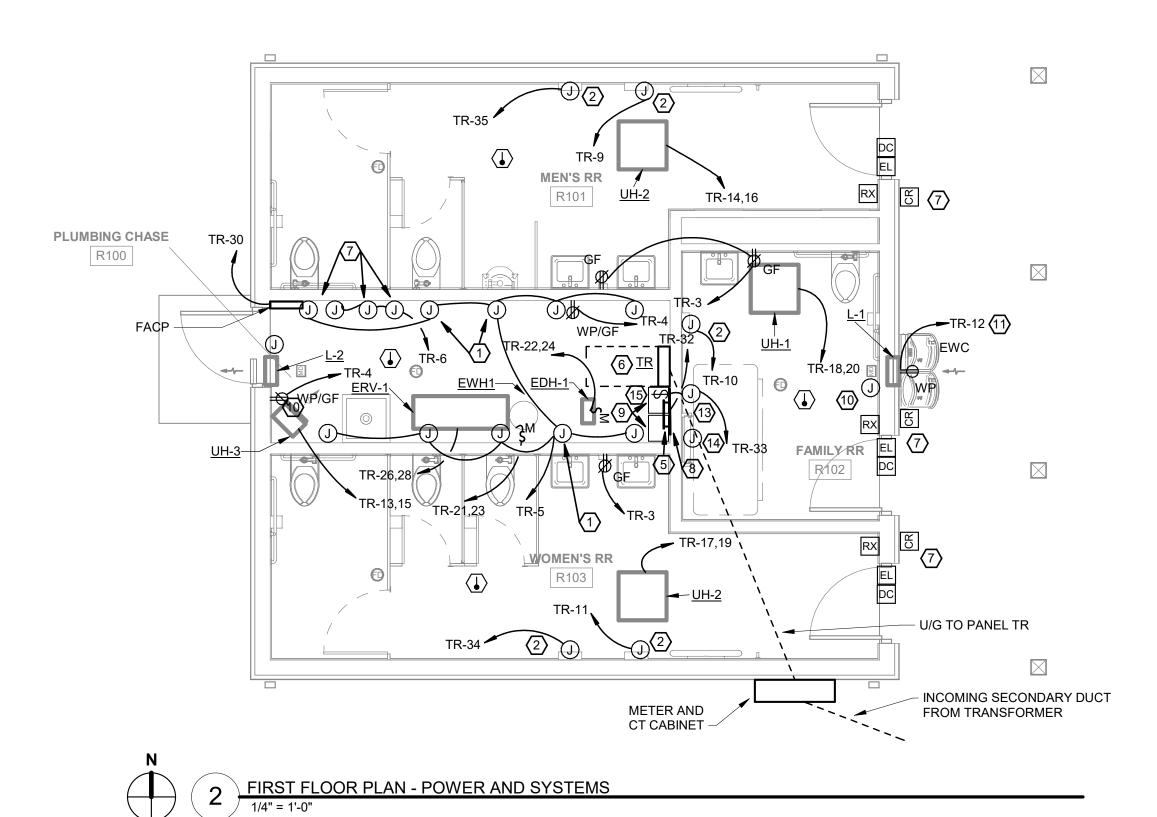
PC: PHOTOCELL

TM: TIMER SWITCH

MS: MASTER SWITCH







GENERAL SHEET NOTES:

LIGHTING GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF DEVICE AND LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND HVAC PLANS PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
- B. PROVIDE ALL MOUNTING HARDWARE PER MANUFACTURER'S WRITTEN INSTRUCTIONS TO SUPPORT LUMINAIRE. CONTRACTOR TO VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. LUMINAIRES SHALL NOT BE SUPPORTED BY CEILINGS.
- C. NO SHARED NEUTRALS EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
- D. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROL AND CIRCUIT. ARC LINES INDICATE A COMMON BRANCH BUT SEPARATE CONTROLS CIRCUIT.
- E. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES IN THE SAME SPACE.

POWER AND SYSTEMS GENERAL NOTES

- A. FIELD VERIFY EXACT LOCATIONS OF ALL RECEPTACLES AND EQUIPMENT. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION WORK TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN DIVISION 26.
- B. ALL RECEPTACLES WITHIN GENERAL PUBLIC ACCESS SHALL BE TAMPER RESISTANT TYPE.
- C. COORDINATE ALL ROUGH-IN REQUIREMENTS OF DEVICES AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- D. UNLESS NOTED OTHERWISE, ALL CABLING SHALL BE IN CONDUIT ROUTED PARALLEL AND TIGHT TO BUILDING STRUCTURE.
- E. PROVIDE FINAL CONNECTIONS AS SHOWN TO ALL EQUIPMENT SHOWN PER MANUFACTURER'S PUBLISHED INSTRUCTION.
- F. COORDINATE DEVICE COLOR SELECTIONS WITH ARCHITECT AND
- G. REFER TO MECHANICAL SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.
- H. ALL EXTERIOR CONNECTIONS AND DEVICES SHALL BE LISTED WEATHER RESISTANT AND WATER TIGHT.

○SHEET KEYNOTES:

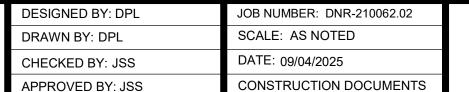
- 1. PROVIDE120V, 20A CIRCUIT TO AUTOMATIC FLUSH VALVE AND FAUCET TRANSFORMERS. COORDINATE EXACT LOCATION WITH OTHER TRADES.
- 2. PROVIDE A JUNCTION BOX RECESS MOUNTED IN WALL FOR CONNECTION TO HAND DRYER. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. PROVIDE LOCK OFF DISCONNECT SWITCH (HUBBELL 1372D OR APPROVED EQUAL) NEAR PANELBOARD. PROVIDE LABEL "LOCK OFF DEVICE FOR HAND DRYER (IN ROOM #). COORDINATE EXACT LOCATION WITH OTHER TRADES.
- 3. PROVIDE PHOTOCELL FOR AUTO ON/AUTO OFFCONTROL OF EXTERIOR BUILDING MOUNTED FIXTURES AND SITE LIGHTING POLE MOUNTED AND BOLLARD FIXTURES. MOUNT PHOTOCELL TO BUILDING FACING NORTH AND INSTALL AND AIM PER MANUFACTURER.
- 4. NOT USED.
- 5. PROVIDE LIGHTING CONTROL PANEL HUBBELL (CX-08-2-S-08-SP OR EQUAL AS APPOVED BY ARCHITECT/ENGINEER). COORDINATE EXACT LOCATION WITH OTHER TRADES.
- 6. MOUNT PANELBOARD ON SURFACE OF WALL
- 7. PROVIDE CONDUIT AND PULLWIRE AT DOOR FOR LOW VOLTAGE DOOR HARDWARE.COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH OTHER TRADES AND APPROVED SHOP DRAWINGS. COORDINATE EXACT LOCATION OF POWER SUPPLY, CARD READER, AND CONTROLLER WITH OTHER TRADES. INDICATES DOOR HARDWARE IS ROUGH-IN ONLY, CARD ACCESS SYSTEM SHALL BE PROVIDED BY OWNER. PROVIDE BLANK COVERPLATES ON "CR".
- 8. PROVIDE BUILDING GROUND. SEE DETAIL 7 & 8 ON SHEET E501 FOR ADDITIONAL INFORMATION.
- 9. PROVIDE TWO (2) EMERGENCY BACKUP INVERTERS (BODINE ELI-S-400 LFP OR APPROVED EQUAL). ONE TO BACK-UP TOWER STAIR LIGHTING AND THE OTHER TO BACK-UP TOWER PLATFORM LIGHTING.
- 10. COORDINATE WITH CONTROLS CONTRACTOR AND PROVIDE A JUNCTION BOX, 3/4" CONDUIT WITH PULLWIRE FOR CONTROL WIRING FOR LOUVER
- 11. PROVIDE A GFCI BREAKER IN PANEL "TR" FOR ELECTRIC WATER HEATER.
- 12. MOUNT EXTERIOR WALL MOUNTED FIXTURE 6" ABOVE DOOR FRAME TO BOTTOM OF FIXTURE.
- 13. PROVIDE A JUNCTION BOX WITH 120V-1PH CIRCUIT FOR CHANGING STATION POWER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- 14. PROVIDE A JUNCTION BOX FOR EQUIPMENT PROVIDED EMERGENCY STOP. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- 15. PROVIDE A 2-POLE SWITCH TO CONTROL CHANGING STATION CHROUPT! COORDINATE EXACT LOCATION AND REQUIREMENTS WITH, 11 MANUFACTURER PRIOR TO ROUGH-IN. 7/28/25











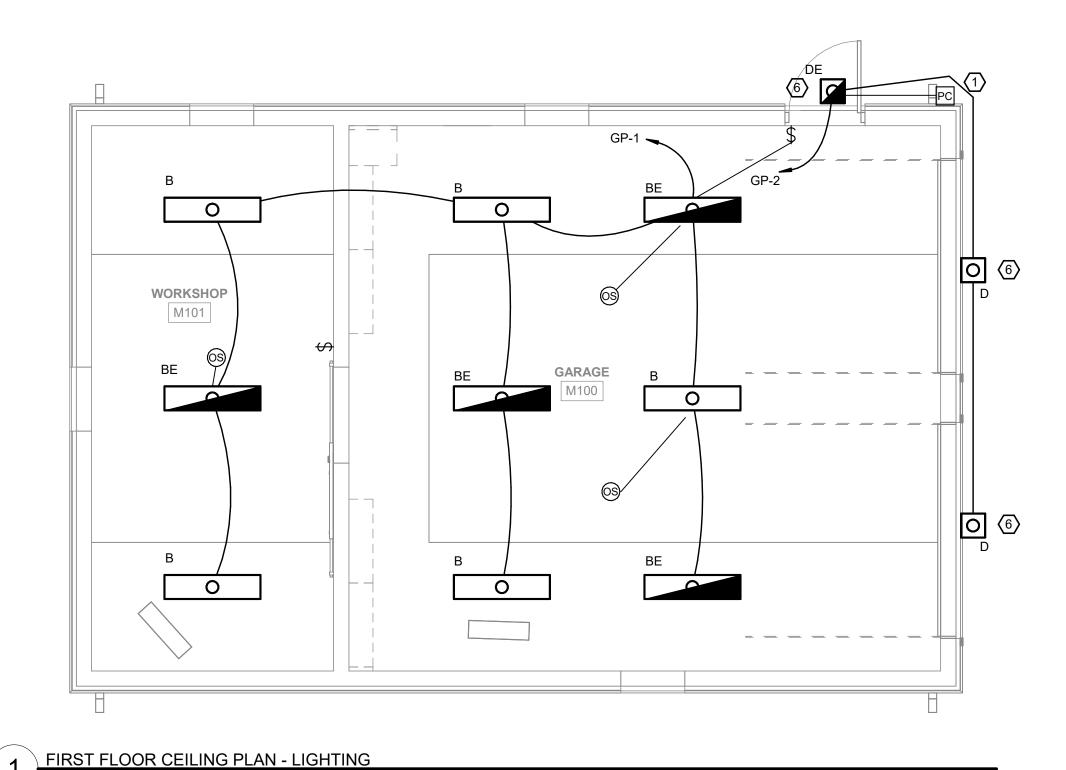
FIRST FLOOR PLAN -**ELECTRICAL**

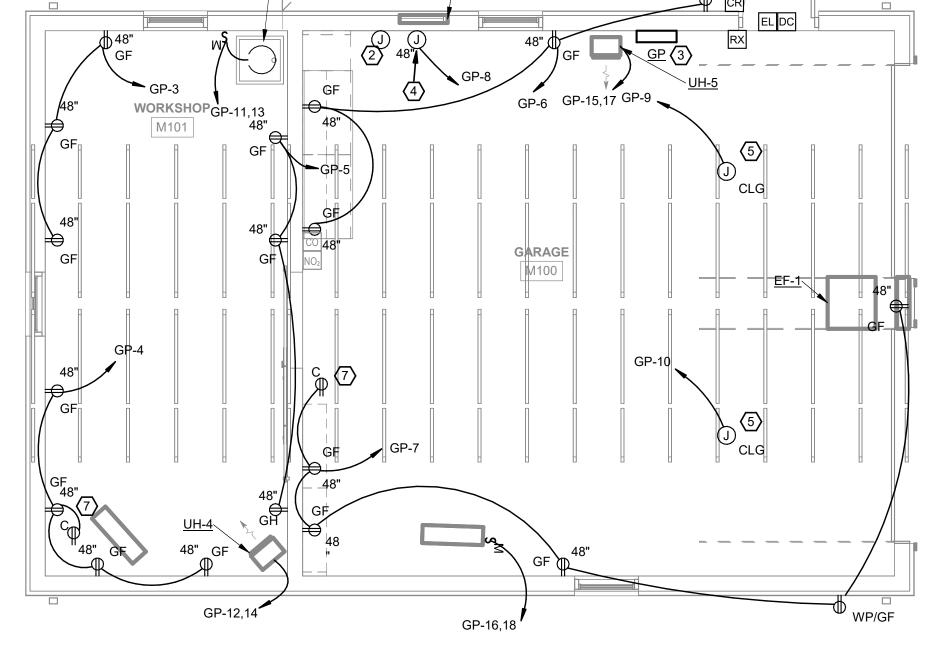


SAIGE



	Panel: GP															
	Location:				Volts:	120/208	3 Single	е	A.I.C.	Rating: 22,000						
	Supply From: TR				Phases:					ins Type: MCB						
	Mounting: Surface	_			Wires:			Mains Rating: 200 A								
	Enclosure: Type 1	•			Wiles.	3		MCB Rating: 200 A								
	Eliciosure: Type I					Ι			IVICD	Rating. 200 A						
СКТ	Circuit Description	Trip	Poles		Α	В	3	Poles	Trip	Circuit Description	СКТ					
1	104, 105 LIGHTING	20 A	1	0.4	0.1			1	20 A	GARAGE EXTERIOR	2					
3	RECEPTACLE	20 A	1			0.5	0.9	1	20 A	RECEPTACLE	4					
5	RECEPTACLE	20 A	1	0.5	0.7			1	20 A	RECEPTACLE	6					
7	RECEPTACLE	20 A	1			1.1		1	20 A	DOOR SECURITY	8					
9	DOOR OPENER	20 A	1	1.2	1.2			1	20 A	DOOR OPENER	10					
11	EWH-2	20 A	2			1.0	5.0	2	2 30 A UH-4		12					
13	EVV II-2	20 A	2	1.0	5.0] ~	30 A	UH-4	14					
15	UH-5	60 A	2			5.0	0.3	2	15 A	EF-1	16					
17	OH-5	00 A	-	5.0	0.3			-	15 A	CF-1	18					
19	SPARE	20 A	1			0.0	0.0	1	20 A	SPARE	20					
21	SPARE	20 A	1	0.0	0.0			1	20 A	SPARE	22					
23	SPARE	20 A	1			0.0	0.0	1	20 A	SPARE	24					
25	SPARE	20 A	1	0.0	0.0			1	20 A	SPARE	26					
27	SPARE	20 A	1			0.0	0.0	1	20 A	SPARE	28					
29	SPARE	20 A	1	0.0	0.0			1	20 A	SPARE	30					
31	SPARE	20 A	1			0.0	0.0	1	20 A	SPARE	32					
33	SPARE	20 A	1	0.0	0.0			1	20 A	SPARE	34					
35	SPARE	20 A	1			0.0	0.0	1	20 A	SPARE	36					
37	SPARE	20 A	1	0.0	0.0			1	20 A	SPARE	38					
39	SPARE	20 A	1			0.0	0.0	1	20 A		40					
41	SPARE	20 A	1	0.0	0.0			1	20 A	SPARE	42					
		Tota	l Load:	15.	4 kVA	13.9	kVA									
		Total	Amps:	14	46 A	134	ΙA									
	Conn. Loa					d Load:	D	emand.								
			29.3 kV	Α	29.3	kVA		141 A								





2 FIRST FLOOR PLAN - POWER AND SYSTEMS
1/4" = 1'-0"

EWH2 -

GENERAL SHEET NOTES:

LIGHTING GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF DEVICE AND LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND HVAC PLANS PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
- B. PROVIDE ALL MOUNTING HARDWARE PER MANUFACTURER'S WRITTEN INSTRUCTIONS TO SUPPORT LUMINAIRE. CONTRACTOR TO VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO

ROUGH-IN. LUMINAIRES SHALL NOT BE SUPPORTED BY CEILINGS.

- C. NO SHARED NEUTRALS EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
- D. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROL AND CIRCUIT. ARC LINES INDICATE A COMMON BRANCH BUT SEPARATE CONTROLS CIRCUIT.
- E. UNLESS NOTED OTHERWISE, LUMINAIRES WITH 0-10V DIMMING DRIVERS SHALL HAVE 0-10V DIMMING CONTROLS WIRED TO LIGHTING CONTROL DEVICE, JUNCTION BOX OR POWER PACK, REGARDLESS OF CONTROLS (DIM OR NONDIM) DEFINED.
- F. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES IN THE SAME SPACE.

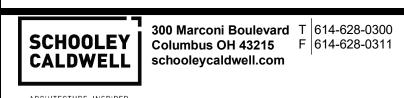
POWER AND SYSTEMS GENERAL NOTES

- A. FIELD VERIFY EXACT LOCATIONS OF ALL RECEPTACLES AND EQUIPMENT. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION WORK TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN DIVISION 26.
- B. ALL RECEPTACLES WITHIN GENERAL PUBLIC ACCESS SHALL BE TAMPER RESISTANT TYPE.
- C. COORDINATE ALL ROUGH-IN REQUIREMENTS OF DEVICES AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- D. UNLESS NOTED OTHERWISE, ALL CABLING SHALL BE IN CONDUIT ROUTED PARALLEL AND TIGHT TO BUILDING STRUCTURE.
- E. PROVIDE FINAL CONNECTIONS AS SHOWN TO ALL EQUIPMENT SHOWN PER MANUFACTURER'S PUBLISHED INSTRUCTION.
- F. COORDINATE DEVICE COLOR SELECTIONS WITH ARCHITECT AND
- G. REFER TO MECHANICAL SCHEDULE SHEETS MX.XX AND MX.XX FOR ADDITIONAL INFORMATION.
- H. COORDINATE FINAL FLOOR BOX LOCATION WITH ARCHITECTURAL FURNITURE PLANS.
- I. ALL EXTERIOR CONNECTIONS AND DEVICES SHALL BE LISTED WEATHE RESISTANT AND WATER TIGHT.

○SHEET NOTES:

- PROVIDE PHOTOCELL FOR AUTO ON/AUTO OFFCONTROL OF EXTERIOR BUILDING MOUNTED FIXTURES AND SITE LIGHTING POLE MOUNTED AND BOLLARD FIXTURES. MOUNT PHOTOCELL TO BUILDING FACING NORTH AND INSTALL AND AIM PER MANUFACTURER.
- 2. COORDINATE WITH CONTROLS CONTRACTOR AND PROVIDE A JUNCTION BOX, 3/4" CONDUIT WITH PULLWIRE FOR CONTROL WIRING FOR LOUVER BY OTHERS.
- 3. MOUNT PANELBOARD ON SURFACE OF WALL.
- 4. PROVIDE CONDUIT AND PULLWIRE AT DOOR FOR LOW VOLTAGE DOOR HARDWARE.COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH OTHER TRADES AND APPROVED SHOP DRAWINGS. COORDINATE EXACT LOCATION OF POWER SUPPLY, CARD READER, AND CONTROLLER WITH OTHER TRADES. INDICATES DOOR HARDWARE IS ROUGH-IN ONLY, CARD ACCESS SYSTEM SHALL BE PROVIDED BY OWNER. PROVIDE BLANK COVERPLATES ON "CR".
- 5. PROVIDE A CEILING MOUNTED JUNCTION BOX FOR DIRECT CONNECTION TO GARAGE DOOR OPENERS. MAKE FINAL CONNECTIONS.
- 6. MOUNT EXTERIOR WALL MOUNTED FIXTURE 6" ABOVE DOOR FRAME TO BOTTOM OF FIXTURE.
- 7. GFCI DUPLEX RECEPTACLE MOUNTED AT CEILING FOR AIR CIRCULATION FAN. COORDINATE EXACT OCATION WITH MECHAICAL CONTRACTOR PRIOR TO ROUGH-IN.



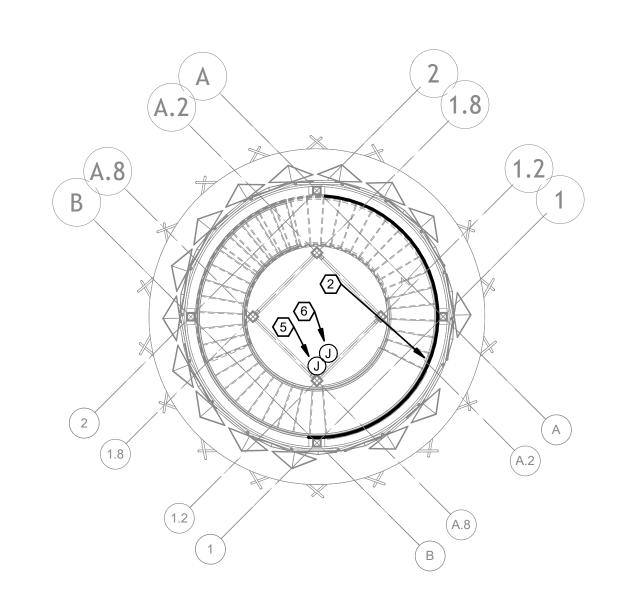




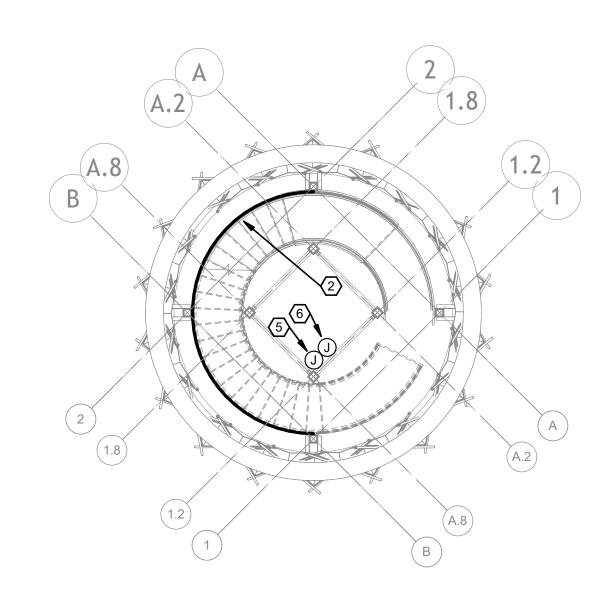


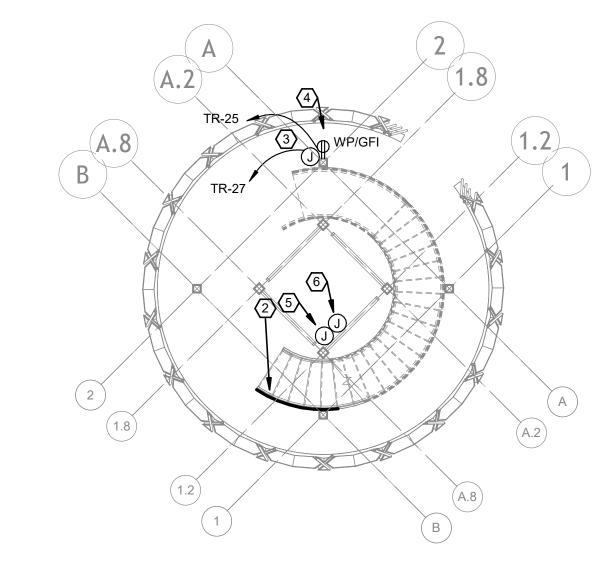






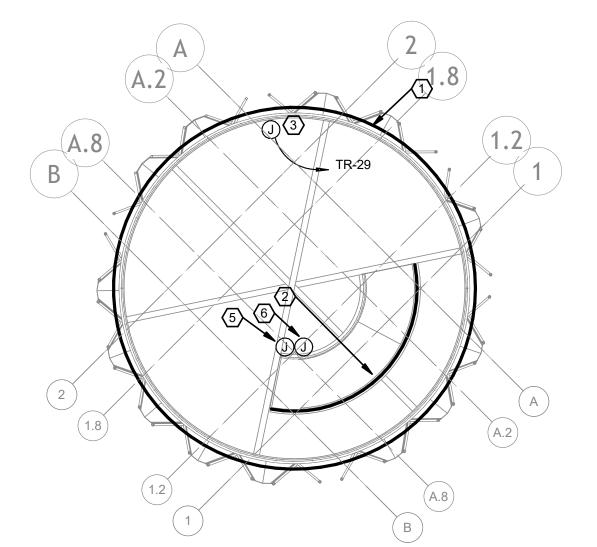
LANDING 2 PLAN - POWER AND SYSTEMS





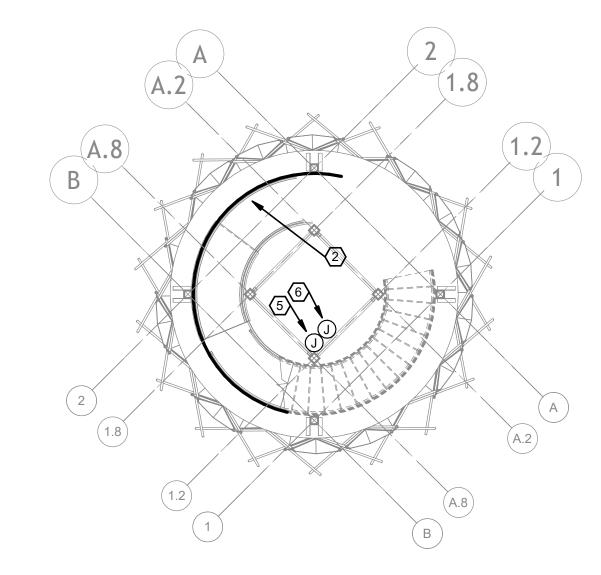


GROUND FLOOR PLAN - POWER AND SYSTEMS





LANDING 1 PLAN - POWER AND SYSTEMS



LANDING 3 PLAN - POWER AND SYSTEMS

1/8" = 1'-0"

GENERAL SHEET NOTES:

LIGHTING GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF DEVICE AND LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND HVAC PLANS PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
- B. PROVIDE ALL MOUNTING HARDWARE PER MANUFACTURER'S WRITTEN INSTRUCTIONS TO SUPPORT LUMINAIRE. CONTRACTOR TO VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. LUMINAIRES SHALL NOT BE SUPPORTED BY CEILINGS.
- C. NO SHARED NEUTRALS EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
- D. STRAIGHT LINES INDICATE LUMINAIRES CIRCUITED TO COMMON CONTROL AND CIRCUIT. ARC LINES INDICATE A COMMON BRANCH BUT SEPARATE CONTROLS CIRCUIT.
- E. UNLESS NOTED OTHERWISE, LUMINAIRES WITH 0-10V DIMMING DRIVERS SHALL HAVE 0-10V DIMMING CONTROLS WIRED TO LIGHTING CONTROL DEVICE, JUNCTION BOX OR POWER PACK, REGARDLESS OF CONTROLS (DIM OR NONDIM) DEFINED.
- F. UNLESS NOTED OTHERWISE, LIGHTING CONTROLS SHALL SERVE LUMINAIRES IN THE SAME SPACE.

POWER AND SYSTEMS GENERAL NOTES

- A. FIELD VERIFY EXACT LOCATIONS OF ALL RECEPTACLES AND EQUIPMENT. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION WORK TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN DIVISION 26.
- B. ALL RECEPTACLES WITHIN GENERAL PUBLIC ACCESS SHALL BE TAMPER RESISTANT TYPE.
- C. COORDINATE ALL ROUGH-IN REQUIREMENTS OF DEVICES AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- D. UNLESS NOTED OTHERWISE, ALL CABLING SHALL BE IN CONDUIT ROUTED PARALLEL AND TIGHT TO BUILDING STRUCTURE.
- E. PROVIDE FINAL CONNECTIONS AS SHOWN TO ALL EQUIPMENT SHOWN PER MANUFACTURER'S PUBLISHED INSTRUCTION.
- F. COORDINATE DEVICE COLOR SELECTIONS WITH ARCHITECT AND
- G. REFER TO MECHANICAL SCHEDULE SHEETS FOR ADDITIONAL INFORMATION.
- H. ALL EXTERIOR CONNECTIONS AND DEVICES SHALL BE LISTED WEATHER RESISTANT AND WATER TIGHT.

SHEET NOTES:

- 1. PROVIDE 95 LINEAR FEET (CONFIRM WITH ARCHITECT PRIOR TO PURCHASE ORDER) OF FIXTURE TYPE "F" IN UNDERSIDE OF GUARD RAIL AROUND PERIMETER OF OBSERVATION DECK. PROVIDE ALL POWER SUPPLIES, CONNECTORS, ENDCAPS, ETC AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. LIGHTING TO BE CONTROLLED VIA LIGHTING CONTROL PANEL IN PLUMBING CHASE OF RESTROOM BUILDING. REFER TO ARCHITECTURAL DETAIL FOR MOUNTING ON SHEET T-A5.
- 2. PROVIDE 118 (CONFIRM WITH ARCHITECT PRIOR TO PURCHASE ORDER) LINEAR FEET OF FIXTURE TYPE "F" IN UNDERSIDE OF GUARD RAIL AT THE EXTERIOR OF THE STAIRS. PROVIDE ALL POWER SUPPLIES, CONNECTORS, ENDCAPS, ETC AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. LIGHTING TO BE CONTROLLED VIA LIGHTING CONTROL PANEL IN PLUMBING CHASE OF RESTROOM BUILDING. REFER TO ARCHITECTURAL DETAIL FOR MOUNTING FOR MOUNTING ON SHEET T-A5.
- 3. PROVIDE A WEATHERPROOF JUNCTION BOX FOR ELECTRICAL CONNECTION TO POWER SUPPLY, 1" CONDUIT AND 2#12, 1#12(G) FOR LED STRIP LIGHTING.
- 4. PROVIDE A WEATHERPROOF GFCI DUPLEX RECEPTACLE MOUNTED ON STRUCTURAL SUPPORT BEAM AT GROUND FLOOR LEVEL.
- 5. PROVIDE A SINGLE GANG WEATHER PROOF JUNCTION BOX WITH BLANK COVERPLATE FOR FUTURE ELECTRICAL WIRING. PROVIDE 1" CONDUIT BETWEEN JUNCTION BOXES AT EACH LEVEL AND RUN UNDERGROUND BACK TO PANEL "TR" IN RESTROOM PLUMBING CHASE.
- 6. PROVIDE A SINGLE GANG WEATHER PROOF JUNCTION BOX WITH BLANK COVERPLATE FOR FUTURE COMMUNICATION WIRING. PROVIDE 1 1/4" CONDUIT BETWEEN JUNCTION BOXES AT EACH LEVEL AND RUN UNDERGROUND BACK TO RESTROOM PLUMBING CHASE.

T/28/25

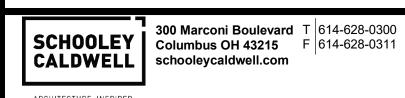
7/28/25

JOHNATHAN S. *

SAIGE
E-82841

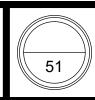
JOHNATHAN S. *

ON AL









OBSERVATION TOWER, RESTROOM, AND MAINTENANCE

GREENE COUNTY, OHIO

Ohio Department of Natural Resources

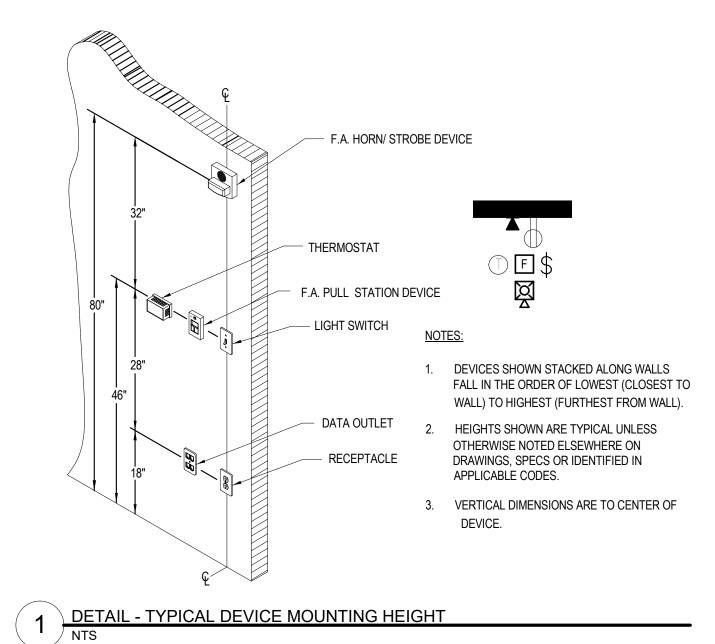
DATE: 09/04/2025

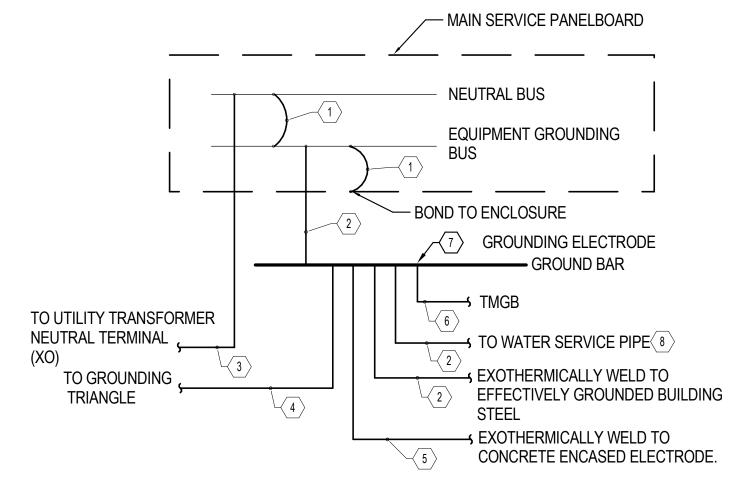
CONSTRUCTION DOCUMENTS

CHECKED BY: JSS

APPROVED BY: JSS

schooleycaldwell.com





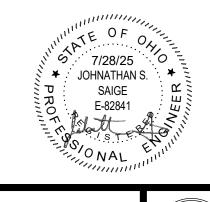
CODED NOTES:

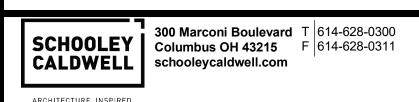
- 1. MAIN BONDING JUMPER: PROVIDED AS PART OF LISTED AND LABELED SERVICE EQUIPMENT.
- 2. GROUNDING ELECTRODE CONDUCTOR: #3/0 AWG COPPER.
- 3. GROUNDED (NEUTRAL) CONDUCTOR: (REFER TO DISTRIBUTIN ONE-LINE FOR
- 4. SUPPLEMENTAL GROUNDING ELECTRODE BONDING JUMPER CONDUCTOR: #3/0 AWG COPPER.
- 5. GROUND ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR: #3/0 AWG
- 6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 3/0 AWG STRANDED COPPER WITH GREEN INSULATION.
- 7. PROVIDE UL 467 LISTED CONNECTIONS (TYPICAL)
- 8. PROVIDE #3/0 BOND ACROSS WATER METER.

2 DETAIL - INTERSYSTEM GROUND BAR

GREAT COUNCIL STATE PARK

GREENE COUNTY, OHIO









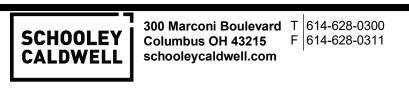


	MOTOR SCHEDULE																																
						ELECTRICAL DATA STARTER DISCONNECT MEANS												COI	NTROL		FE	EDEF	₹										
					LOAD											т,	VDE				OCATIO								ı				
MARK	NAMEPLATE	ROOM NUMBER	LOCATION	HORSEPOWER (HP)	MCA (KVA)	MOCP	120V-1PH	208V-1PH 208V-3PH	277V-1PH		NEMA SIZE	MANUAL	BUILT-IN MOTOR O/L			MOTOR CONT CENTER EQUIP CONT PANEL ROOM NUMBER	FURNISHED BY	DISC SWITCH		FEEDER SWITCH OR BREAKER A	DISC SIZE	FUSE SIZE		EQUIP CONT PANEL		FURNISHED BY	INTERLOCK WITH MOTOR MANUAL AT STARTER	INTEGRAL WITH EQUIPMENT BAS/OTHER SYSTEM AS NOTED FURNISHED BY	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	SEE CODED NOTE
EF-1	EXHAUST FAN	-	GARAGE ROOF	-	(0.6)	15		•										•		1	30	-	•			EC		• ES	2	12	12	0.75	
EDH-1	ELECTRIC DUCT HEATER	100	PLUMBING CHASE	-	(5.0)	30		•										•		1	30	-	•			EC		• ES	2	10	10	0.75	
ERV-1	ENERGY REVOVERY VENTILATOR	100	PLUMBING CHASE	-	(1.8)	15		•										•		1	30	-		•		ES		• ES	2	12	12	0.75	
UH-1	ELECTRIC UNIT HEATER	102	FAMILY RESTROOM	-	(1.5)	15		•										•		1	30	-		•		ES		• ES	2	12	12	0.75	
UH-2	ELECTRIC UNIT HEATER	101	MEN'S RESTROOM	-	(3.0)	20		•										•		1	30	-		•		ES		• ES	2	12	12	0.75	
UH-2	ELECTRIC UNIT HEATER	103	WOMEN'S RESTROOM	-	(3.0)	20		•										•		1	30	-		•		ES		• ES	2	12	12	0.75	
UH-3	ELECTRIC UNIT HEATER	100	PLUMBING CHASE	_	(3.0)	20		•										•		1	30	_	•			ES		• ES	2	12	12	0.75	
UH-4	ELECTRIC UNIT HEATER	105	WORKSHOP	-	(5.0)	30		•										•		1	30	-	•			ES		• ES	2	10	10	0.75	
UH-5	ELECTRIC UNIT HEATER	104	GARAGE	-	(10.0)	60		•										•		1	60	_	•			ES		• ES	2	6	10	1.00	
EWH-1	ELECTRIC WATER HEATER	100	PLUMBING CHASE	_	(4.0)	25		•										•		1	30	_	•			EC		• EC	2	10	10	0.75	
EWH-2	ELECTRIC WATER HEATER	105	WORKSHOP	-	(2.0)	15		•										•		1	30	-	•			EC		• EC	2	12	12	0.75	

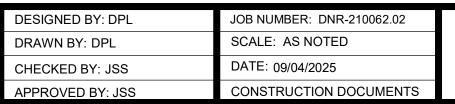
EC - ELECTRICAL CONTRACTOR; ES - EQUPMENT SUPPLIER; HC - HVAC CONTRACTOR; PC - PLUMBING CONTRACTOR.

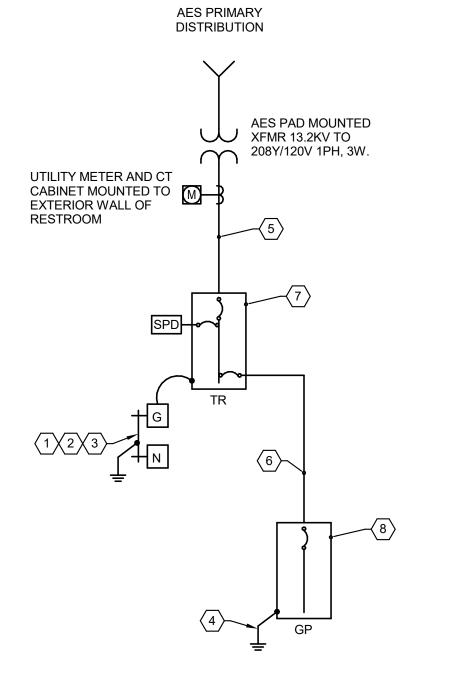
			T	LUMINAIRE SCHE			I	
TYPE	DIMENSIONS	MOUNTING	CONSTRUCTION AND FINISH	DESCRIPTION AND OPTIONS	LAMPS	BALLAST(S)	VOLTAGE/LOAD	APPROVED MANUFACTURER(S)
Α	4 5/8"W x 46 7/8"L x 4 3/8"D	SURFACE	COLD ROLLED STEEL AND VANDAL RESISTANT POLYCARBONATE LENS	4' SURFACE MOUNTED LINEAR LED, LENSED, VANDAL RESISTANT, EMERGENCY BATTERY BACK UP	LED,4600L, 30K	LED 1% DIMMING DRIVER	120V, 45W	MERCURY LIGHTING L65VP-4-4600-30K-HTP- 1% UNOR AS APPROVED BY OWNER/ARCHITECT
AE	4 5/8"W x 46 7/8"L x 4 3/8"D	SURFACE	COLD ROLLED STEEL AND VANDAL RESISTANT POLYCARBONATE LENS	4' SURFACE MOUNTED LINEAR LED, LENSED, VANDAL RESISTANT, EMERGENCY BATTERY BACK UP	LED,4600L, 30K	LED 1% DIMMING DRIVER	120V, 45W	MERCURY LIGHTING L65VP-4-4600-30K-HTP- 1% UNI-EM10 OR AS APPROVED BY OWNER/ARCHITECT
В	4.5"W x 48"L x 3 13/16"D	CHAIN SUSPENDED	CODE GUAGED STEEL, FROSTED PRISMATIC ACRYLIC LENS	4' SUSPENDED LINEAR LED, LENSED, STRIP LIGHT, EMERGENCY BATTERTY BACK UP	LED,	LED DRIVER	120V, 48W	CURRENT LIGHTING LCL4-30ML-E-CSHC OR AS APPROVED BY OWNER/ARCHITECT
BE	4.5"W x 48"L x 3 13/16"D	CHAIN SUSPENDED	CODE GUAGED STEEL, FROSTED PRISMATIC ACRYLIC LENS	4' SUSPENDED LINEAR LED, LENSED, STRIP LIGHT, EMERGENCY BATTERTY BACK UP	LED,	LED DRIVER	120V, 48W	CURRENT LIGHTING LCL4-30ML-EUELL14-CSHC OF AS APPROVED BY OWNER/ARCHITECT
С	6" DIAMETER W x 6.68"H	CABLE SUSPENDED	DIE-CAST ALUMINUM, GLASS LENS	6" DIAMETER LED CYLINDER CABLE SUSPENDED FIXTURE WITH BLACK FINISH, PENDANT MOUNTING KIT, WET LOCATION LISTED.	LED, 4400L, 30K	LED 0-10V-1% DIMMING DRIVER	120V, 50W	METEOR LIGHTING, #RH6C-50-308-120-STV-55-BLK-SAD10-OUT
D	7.81"D x 13.09"L x 6.79"H	SURFACE	DIE-CAST ALUMINUM WITH POWDER COATED FINISH	WALL MOUNTED, EXTERIOR, LED LUMINAIRE, DARK SKY FRIENDLY, WET LOCATION LISTED, EMERGENCY BATTERY BACK-UP	LED,2900L, 3000K	LED 0-10V-1% DIMMING DRIVER	120V, 25W	CURRENT LIGHTING QSP1-24L-25-3K8-3K7-120-DB OR APPROVED EQUAL BY OWNER/ARCHITECT.
DE	7.81"D x 13.09"L x 6.79"H	SURFACE	DIE-CAST ALUMINUM WITH POWDER COATED FINISH	WALL MOUNTED, EXTERIOR, LED LUMINAIRE, DARK SKY FRIENDLY, WET LOCATION LISTED, EMERGENCY BATTERY BACK-UP	LED,2900L, 3000K	LED 0-10V-1% DIMMING DRIVER	120V, 25W	CURRENT LIGHTING QSP1-24L-25-3K8-3K7-120-DBT-E OR APPROVED EQUAL BY OWNER/ARCHITECT.
F	AS NEEDED	RECESSED	ENCAPSULATED LED FLEXIBLE STRIP	FLEXIBLE LED ENCAPSULATED LED STRIP WITH MOUNTING HARDWARE, AND REMOTE POWER SUPPLIES (Q-SET-QZ-ND)	LED, 2.0W/FT, 3000K	LED DRIVER	24V, 2W/PER FT	QTL LIGHTING ANBD-SW-XX-WET-30-2-ENC/CL-XX-XX-XX-CL WHITE-XX-0 OR APPROVED EQUAL BY OWNER/ARCHITECT.
SA	18"W x 23"D	POLE MOUNTED	DIE-CAST ALUMINUM	POLE MOUNTED SITE LIGHTING LED FIXTURE WITH ACRYLIC OPTICS, TYPE 3 WIDE OPTICS, WITH 12' ALUMINUM POLE ON 24" BASE, FINISH AS SELECTED BY ARCHITECT.	LED, 9,000L, 3000K	LED DRIVER	120V, 54W	LSI LIGHTING VALS-9L-3W-UNV-30K8-XX-SAPOLE LS1 SQUARE ALUMINUM 4SQB3-A125-12'-S-XX OR APPROVED EQUAL BY OWNER/ARCHITECT.
SB	9" DIA x 44"H	BOLLARD	DIE-CAST ALUMINUM WITH POWDER COATED FINISH	LED BOLLARD WITH ASSYMETRICAL OPTICS	LED, 2,500L, 3000K	LED DRIVER	120V, 23W	LSI LIGHTING MRB-LED-25L-ACR-A-UNV-DIM-30-XX OR APPROVED EQUAL BY OWNER/ARCHITECT.











SINGLE-LINE DIAGRAM - ELECTRICAL

○SHEET KEYNOTES:

- 1. BOND NEUTRAL TO GROUND AT SERVICE ENTRANCE EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO UL LISTED INTERSYSTEM GROUND BAR. REFER TO DETAIL 8/E501.
- PROVIDE BONDING JUMPERS FROM GROUND BAR TO EACH GROUNDING ELECTRODE IN ACCORDANCE WITH NEC ARTICLE 250.
- PROVIDE 10' X 3/4" DIA. UL LISTED GROUND ROD(S) AS REQUIRED. REFER TO DETAIL 7/E501.
- 4. PROVIDE GROUND ROD(S) AT REMOTE BUILDING PANELBOARD, DO NOT BOND NEUTRAL TO GROUND, BOND EQUIPMENT GROUNDING CONDUCTOR FROM FEEDER.
- 5. FROM TRANSFORMER, PROVIDE (2 SETS) 3#250KCMIL (AL), 1#1(G), 3"C FROM POWER COMPANY PAD MOUNTED TRANSFORMER TO PANEL "TR".
- 6. PROVIDE 3#250KCMIL (AL), 1#2(G)-3"C. FROM PANEL "TR" IN RESTROOM PLUMBING CHASE TO PANEL "GP" IN GARAGE.
- 7. PROVIDE A 42 SPACE, 400A MCB, 208Y/120V-1PH-4W PANELBOARD.
- 8. PROVIDE A 42 SPACE, 200A MCB, 208Y/120V-1PH-3W PANELBOARD.



