VCBO®

25240 - NAVAJO NATION PEACEMAKING BUILDING & AMPITHEATER

Addendum **ADD-1.0**

Reason: Bidding

Date: **Wed November 11, 2026**

Reference: ***CADD-001*** *Meridian Engineering Inc*
EADD-1.0 *Electrical Consulting Engineers (ECE)*

This Addendum shall be considered part of the Contract Documents and Project Manual for the above mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents and Project Manual, the Addendum shall govern and take precedence.

ADDENDUM 001

See attached revised drawings to address recent plan check comments and questions from bidders.

Per the request of some of the bidders, we have shifted the due date for the bid submission to December 2 @ 4:00 PM MST,

The owner has confirmed that there will be a public bid opening on December 3, 2026 at 10am Mountain Standard Time at the AOC office, 7968A Window Rock Blvd., Window Rock, AZ 86515

Architectural:

Bidders Q&A Document
11/11/2026

G101 *11/11/2026*	CODE + LIFE SAFETY - BUILDING B Relabeled restrooms to Unisex
AS100 *11/11/2026*	OVERALL SITE PLAN Added parking calculations
AS300.0 *11/11/2026*	AMPHITHEATER ANNOTATED PLAN Companion seat measurements added
A120.1 *11/11/2026*	ANNOTATED PLAN - BUILDING B Restrooms labels changed to Unisex, window tags changed. Added reference to Alternate #3 for fire pit removal
A120.2 *11/11/2026*	DIMENSION AND WALL TYPES - BUILDING B Restroom labels changed to Unisex
A120.3 *11/11/2026*	FINISH PLAN - BUILDING B Restroom labels changed to Unisex
A120.5 *11/11/2026*	FURNITURE PLAN - BUILDING B Restroom labels changed to Unisex, seating dimensions revised
A320.1 *11/11/2026*	BUILDING SECTIONS - BUILDING B Restroom labels changed to Unisex
A420.3 *11/11/2026*	ENLARGED PLANS + INT. ELEVATIONS - BUILDING B Restroom labels changed to Unisex

A420.4 *11/11/2026*	ENLARGED PLANS + INT. ELEVATIONS - BUILDING B Revised materials for Plinth.
A420.5 *11/11/2026*	ENLARGED PLANS + INT. ELEVATIONS - BUILDING B Added plinth to push side
A420.6 *11/11/2026*	ENLARGED PLANS + INT. ELEVATIONS - BUILDING B Added plinth
A420.9 *11/11/2026*	ENLARGED PLANS + INT. ELEVATIONS - BUILDING B Added plinth
A550 *11/11/2026*	DOOR / WINDOW DETAILS Added plinth
A600 *11/11/2026*	DOOR & WINDOW SCHEDULE Revised window B-3 to STOREFRONT
A900 *11/11/2026*	ARCHITECTURAL SIGNAGE TYPES & DETAILS Revised sign types
A920 *11/11/2026*	ARCHITECTURAL SIGNAGE PLAN+SCHEDULE Restroom labels changed to Unisex, removed furniture

END OF ADD-1.0

Issued By: **VCBO Architecture:** Alan Heinrich

cc:

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SECTION 01 2300

ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
   2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other Work of the Contract.

C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Parking Lot.
   1. Base Bid: Provide gravel parking lot as indicated on Civil Drawings.
   2. Alternate: In lieu of gravel, provide asphalt parking lot as indicated on Civil Drawings and in Section 32 1216 - Asphalt Paving.

B. Alternate No. 2: Anti-Graffiti Coating (Deductive).
   1. Base Bid: Provide anti-graffiti coating on exterior architectural concrete walls and stone veneer walls from finish grade to 8 feet above adjacent finish grade, as specified in Section 09 9623 "Graffiti-Resistant Coatings."
   2. Alternate: Delete anti-graffiti coating specified in Section 09 9623 "Graffiti-Resistant Coatings." State deduction from Base Bid.

C. Alternate No. 3: Copper Feeder Conductors (Additive).
   1. Base Bid: Provide aluminum feeder conductors as indicated on the Electrical Drawings.
   2. Alternate: Provide alternate price to replace all aluminum feeder conductors with copper feeder conductors. The size of the copper feeders are to match or exceed the ampacity of the aluminum feeders. State addition to Base Bid.

END OF SECTION

SECTION 08 4113

ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Exterior aluminum-framed entrance and storefront systems, including fixed windows and operable vents integrated into storefront framing.
   2. Interior aluminum-framed entrances, storefronts, and framing, including vestibules.

B. Related Requirements:
   1. Section 01 4339 "Mockups" for exterior wall assembly mockup, for visual review only.
   2. Section 08 7100 "Door Hardware" for entrance door hardware not specified in this Section.
   3. Section 08 8000 "Glazing" for glazing requirements applicable to aluminum-framed entrances and storefronts.

1.2 ALLOWANCES

A. See Section 01 2100 "Allowances" for description of allowances affecting items specified in this Section.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site or via remote meeting software.

1.4 ACTION SUBMITTALS

A. Product Data:
   1. Aluminum-framed entrance and storefront systems.

B. Product Data Submittals: For each product.
   1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
   2. Operating characteristics, electrical characteristics, and furnished accessories.

C. Shop Drawings:
   1. Plans, elevations, sections, full-size details, and attachments to other work.
   2. Details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
   3. Full-size isometric details of each type of vertical-to-horizontal intersection of aluminum-framed entrance and storefront systems, showing the following:
      a. Joinery, including concealed welds.
      b. Anchorage.
      c. Expansion provisions.
      d. Glazing.
      e. Flashing and drainage.
   4. Connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
   5. Point-to-point wiring diagrams showing the following:
      a. Power requirements for each electrically operated door hardware.
      b. Location and types of switches, signal device, conduit sizes, and number and size of wires.

6. Signed and sealed by the qualified professional engineer responsible for their preparation.

D. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of exposed finish.

E. Samples for Verification: Actual sample of finished products for each type of exposed finish.
1. Size: Manufacturers' standard size.

F. Fabrication Sample: Of each vertical-to-horizontal intersection of assemblies, made from 12-inch lengths of full-size components and showing details of the following:
1. Joinery, including concealed welds.
2. Anchorage.
3. Expansion provisions.
4. Glazing.
5. Flashing and drainage.

G. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

H. Delegated Design Submittals: For aluminum-framed entrances and storefront systems, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

A. Energy Performance Certificates: For aluminum-framed entrance and storefront systems, accessories, and components, from manufacturer.
1. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront system.
2. Submit NFRC label certificates or component modeling approach (CMA) certificates for each storefront, window, and entrance system, indicating U-factor and SHGC, for verification by authorities having jurisdiction per 2021 IECC Section C303.1.3.
3. Air Leakage Labeling: Provide fenestration and doors labeled or certified as meeting air leakage requirements of 2021 IECC Section C402.5.4.

B. Product Test Reports: Manufacturer's published test reports for standard aluminum-framed entrance and storefront systems demonstrating compliance with performance requirements. Project-specific testing is not required.

C. Qualification Statements:
1. For Installer and egress door inspector.

D. Delegated Design Engineer Qualifications: For aluminum-framed entrance and storefront systems.

E. Sample Warranties: For aluminum-framed entrance and storefront systems.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For aluminum-framed entrance and storefront systems.

1.7 QUALITY ASSURANCE

A. Installer Qualifications:
   1. Fabricator of products.
   2. Entity that employs installers and supervisors who are trained and approved by manufacturer.
   3. Authorized representative who is trained and approved by manufacturer.
   4. Entity that is certified under the North American Contractor Certification Program (NACC) and that employs installers and supervisors who are trained and approved by manufacturer and who are certified under the Architectural Glass and Metal Technician (AGMT) certification program.

B. Delegated Design Engineer Qualifications: A professional engineer licensed in the State of Arizona and experienced in providing engineering services of the kind indicated.

C. Egress Door Inspector Qualifications:
   1. Inspector for field quality-control inspections of egress door assemblies to comply with qualifications set forth in NFPA 101, Ch. 7 "Means of Egress," Section "Means of Egress Components," Article "Inspection of Door Openings."
   2. Inspector for field quality-control inspections of egress door assemblies to be certified under DHI's certification program as a Fire and Egress Door Assembly Inspector (FDAI) or a Certified Fire and Egress Door Assembly Inspector (CFDAI).

D. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
   1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

E. Structural-Sealant Glazing: Comply with ASTM C1401 for design and installation of storefront systems that include structural glazing. Laboratory and field testing are not required.

1.8 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrance and storefront systems that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Structural failures.
      b. Faulty operation of doors.
      c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
   2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain all components of aluminum-framed entrance and storefront system, including framing and accessories, from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer licensed in the State of Arizona, as defined in Section 01 4000 "Quality Requirements," to design aluminum-framed entrance and storefront systems, including mullion reinforcement and anchorage, using performance requirements and design criteria indicated.

B. General Performance: Comply with performance requirements specified, as demonstrated by manufacturer's published test data for systems representing those indicated for this Project. Project-specific laboratory and field testing are not required.
   1. Aluminum-framed entrance and storefront systems to withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
   2. Failure also includes the following:
      a. Thermal stresses transferring to building structure.
      b. Glass breakage.
      c. Noise or vibration created by wind and thermal and structural movements.
      d. Loosening or weakening of fasteners, attachments, and other components.
      e. Failure of operating units.

C. Structural Loads:
   1. Wind Loads: As indicated on Drawings.

D. Deflection of Framing Members Supporting Glass: At design wind load, as follows:
   1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans of up to 13 feet 6 inches and to 1/240 of clear span plus 1/4 inch for spans greater than 13 feet 6 inches.
   2. Deflection Parallel to Glazing Plane: Limited to amount not exceeding that which reduces glazing bite to less than 75 percent of design dimension and that which reduces edge clearance between framing members and glazing or other fixed components to less than 1/8 inch.
      a. Operable Units: Provide a minimum 1/16-inch clearance between framing members and operable units.

E. Structural: Test in accordance with ASTM E330/E330M as follows:
   1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
   2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
   3. Test Durations: As required by design wind velocity, but not less than 10 seconds.

F. Water Penetration under Static Pressure: Test in accordance with ASTM E331 as follows:
   1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested in accordance with a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft..

G. Water Penetration under Dynamic Pressure: Test in accordance with AAMA 501.1 as follows:
   1. No evidence of water penetration through fixed glazing and framing areas when tested at dynamic pressure equal to 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft.
   2. Maximum Water Leakage: In accordance with AAMA 501.1. Water leakage does not include water controlled by flashing and gutters, or water that is drained to exterior.

H. Energy Performance: Certified and labeled by manufacturer for energy performance as follows:

1. Energy Compliance: Provide systems with energy performance not less than that indicated in the Project energy compliance documentation (COMcheck, 2021 IECC, Climate Zone 5B). Where values below differ from energy compliance documentation, the more stringent value governs.
2. Thermal Transmittance (U-factor):
    a. Fixed Glazing and Framing Areas: U-factor for the system of not more than 0.34 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
    b. Entrance Doors: U-factor of not more than 0.68 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
    c. Area-Weighted Average: Where entrance doors are included in vertical fenestration area in energy compliance documentation, area-weighted average U-factor of storefront system, including entrance doors, shall not exceed 0.34 Btu/sq. ft. x h x deg F.
    d. Venting Windows: Whole window U-factor of not more than 0.34 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
3. Solar Heat-Gain Coefficient (SHGC):
    a. Fixed Glazing and Framing Areas: SHGC for the system of not more than 0.25 as determined in accordance with NFRC 200.
    b. Entrance Doors: SHGC of not more than 0.22 as determined in accordance with NFRC 200.
    c. Venting Windows: Whole window SHGC of not more than 0.25 as determined in accordance with NFRC 200.
4. Air Leakage:
    a. Fixed Glazing and Framing Areas: Air leakage for the system of not more than 0.06 cfm/sq. ft. at a static-air-pressure differential of 6.24 lbf/sq. ft. when tested in accordance with ASTM E283.
    b. Entrance Doors: Air leakage of not more than 1.0 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft..
    c. Venting Windows: Whole window air leakage of not more than 0.3 cfm/sq. ft. at a static-air-pressure differential of 6.24 lbf/sq. ft. when tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.
5. Condensation Resistance Factor (CRF):
    a. Fixed Glazing and Framing Areas: CRF for the system of not less than 35 as determined in accordance with AAMA 1503.
    b. Entrance Doors: CRF of not less than 57 as determined in accordance with AAMA 1503.
    c. Venting Windows: Whole window CRF of not less than 45 as determined in accordance with AAMA 1503.

I. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
    1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

J. Structural-Sealant Joints:
    1. Designed to carry gravity loads of glazing.

K. Structural Sealant: ASTM C1184. Capable of withstanding tensile and shear stresses imposed by structural-sealant-glazed, aluminum-framed entrance and storefront systems without failing adhesively or cohesively, based on sealant manufacturer's published compatibility and adhesion data for materials used.
    1. Adhesive failure occurs when sealant pulls away from substrate cleanly, leaving no sealant material behind.
    2. Cohesive failure occurs when sealant breaks or tears within itself but does not separate from each substrate, because sealant-to-substrate bond strength exceeds sealant's internal strength.

2.3 ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

A. Basis-of-Design Products: Subject to compliance with requirements, provide the following products, or comparable products by another manufacturer approved according to Section 01 2500 "Substitution Procedures":
   1. Exterior Storefront, Typical: Kawneer Company, Inc.; ~~451UT~~Trifab VersaGlaze 451T, thermally broken, center-set glazing.
   2. Exterior Storefront at ~~Structural-Silicone-Glazed Window~~Window Type B3: Kawneer Company, Inc.; Trifab VersaGlaze 451T, thermally broken, with glazing plane set toward exterior (front-set) and structural silicone ~~glazing, where indicated~~glazed (SSG) vertical joints to reduce vertical mullions, where indicated on Drawings.
   3. Operable Vents in Storefront: Kawneer Company, Inc.; GLASSvent Windows for Storefront Framing.
   4. Entrance Doors: Kawneer Company, Inc.; 350 Heavy Doors.

B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
   1. Exterior Framing Construction: Thermally broken.
   2. Interior Framing Construction, Including Vestibules and Interior Entrances: Nonthermal.
   3. Glazing System: Retained mechanically with gaskets on four sides, and systems Retained mechanically with gaskets on two sides and structural sealant on two sides.
   4. Glazing Plane: Center-set~~, except~~ for all windows and storefront, except front-set (toward exterior) at ~~structural-silicone-glazed window where indicated~~Window Type B3 with SSG vertical joints.
   5. Finish: Color anodic finish.
   6. Fabrication Method: Field-fabricated stick system.
   7. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
   8. Steel Reinforcement: Provide internal steel reinforcement in mullions where spans or loads exceed manufacturer's standard limits, including storefront indicated up to 12 feet tall, as required by delegated design.

C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.

D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

E. Operable Vents: Project-out vents integrated into storefront framing, located as indicated.
   1. Performance Class and Grade: AAMA/WDMA/CSA 101/I.S.2/A440, HC40 minimum.
   2. Glazing: Structural silicone glazed, with glass as specified in Section 08 8000 "Glazing."
   3. Hardware: Manufacturer's standard concealed stainless steel four-bar hinges and locking hardware; limit opening as required by authorities having jurisdiction.
   4. Finish: Match adjacent storefront framing finish.

F. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation.
   1. Door Construction: 2-inch overall thickness, with minimum 0.188-inch- thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
   2. Door Design: Medium stile; 3-1/2-inch nominal width.
   3. Glazing Stops and Gaskets: Beveled, snap-on, extruded-aluminum stops and preformed gaskets.
      a. Provide nonremovable glazing stops on outside of door.
   4. Finish: Match adjacent storefront framing finish.

2.4 ENTRANCE DOOR HARDWARE

A. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 08 7100 "Door Hardware."

2.5 GLAZING

A. Glazing: Comply with Section 08 8000 "Glazing" for glass types and thicknesses at exterior and interior systems.

B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.

C. Glazing Sealants: As recommended by manufacturer.

D. Structural Glazing Sealants: ASTM C1184 chemically curing silicone formulation that is compatible with system components with which it comes in contact; specifically formulated and tested for use as structural sealant and approved by structural-sealant manufacturer for use in storefront system indicated.
   1. Color: Black.

E. Weatherseal Sealants: ASTM C920 for Type S; Grade NS; Class 25; Uses NT, G, A, and O; chemically curing silicone formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and structural-sealant-glazed storefront manufacturers for this use.
   1. Color: Match structural sealant.

2.6 MATERIALS

A. Sheet and Plate: ASTM B209.

B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B221.

C. Structural Profiles: ASTM B308/B308M.

D. Steel Reinforcement:
   1. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
   2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M.
   3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M.

E. Steel Reinforcement Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods in accordance with recommendations in SSPC-SP COM, and prepare surfaces in accordance with applicable SSPC standard.

2.7 ACCESSORIES

A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
   1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
   2. Reinforce members as required to receive fastener threads.
   3. Use exposed fasteners with countersunk Phillips screw heads, finished to match framing system, fabricated from 300 series stainless steel.

B. Anchors: Three-way adjustable anchors with minimum adjustment of 1 inch that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.
   1. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A123/A123M or ASTM A153/A153M requirements.

C. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.

D. Bituminous Paint: Cold-applied asphalt-mastic paint containing no asbestos, formulated for 30-mil thickness per coat.

E. Rigid PVC filler.

2.8 FABRICATION

A. Form or extrude aluminum shapes before finishing.

B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

C. Fabricate components that, when assembled, have the following characteristics:
   1. Profiles that are sharp, straight, and free of defects or deformations.
   2. Accurately fitted joints with ends coped or mitered.
   3. Physical and thermal isolation of glazing from framing members.
   4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
   5. Provisions for field replacement of glazing from interior.
   6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

E. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.

F. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
   1. At interior and exterior doors, provide compression weather stripping at fixed stops.

G. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
   1. At pairs of exterior doors, provide sliding-type weather stripping retained in adjustable strip and mortised into door edge.
   2. At exterior doors, provide weather sweeps applied to door bottoms.

H. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.

I. After fabrication, clearly mark components to identify their locations in Project in accordance with Shop Drawings.

2.9 ALUMINUM FINISHES

A. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I.
   1. Color: Dark bronze.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF ALUMINUM-FRAMED ENTRANCE AND STOREFRONT SYSTEMS

A. Comply with manufacturer's written instructions.

B. Do not install damaged components.

C. Fit joints to produce hairline joints free of burrs and distortion.

D. Rigidly secure nonmovement joints.

E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.

F. Seal perimeter and other joints watertight unless otherwise indicated.

G. Metal Protection:
   1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
   2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

H. Set continuous sill members and flashing in full sealant bed, as specified in Section 07 9200 "Joint Sealants," to produce weathertight installation.

I. Install joint filler behind sealant as recommended by sealant manufacturer.

J. Install components plumb and true in alignment with established lines and grades.

K. Install operable units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.

L. Install entrance doors to produce smooth operation and tight fit at contact points.
   1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
   2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware in accordance with entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

M. Install glazing as specified in Section 08 8000 "Glazing."

N. Install structural glazing as follows:

1. Prepare surfaces that will contact structural sealant in accordance with sealant manufacturer's written instructions, to ensure compatibility and adhesion. Preparation includes, but is not limited to, cleaning and priming surfaces.
2. Set glazing into framing in accordance with sealant manufacturer and framing manufacturer's written instructions and standard practice. Use a spacer or backer as recommended by manufacturer.
3. Set glazing with proper orientation so that coatings face exterior or interior as specified.
4. Hold glazing in place using temporary retainers of type and spacing recommended by manufacturer, until structural sealant joint has cured.
5. Apply structural sealant to completely fill cavity, in accordance with sealant manufacturer and framing manufacturer's written instructions and in compliance with local codes.
6. Apply structural sealant at temperatures indicated by sealant manufacturer for type of sealant.
7. Allow structural sealant to cure in accordance with manufacturer's written instructions.
8. Clean and protect glass as indicated in Section 08 8000 "Glazing."
9. After structural sealant has completely cured, remove temporary retainers and insert backer rod between lites of glass as recommended by sealant manufacturer.
10. Install weatherseal sealant to completely fill cavity, in accordance with sealant manufacturer's written instructions, to produce weatherproof joints.

3.3 ERECTION TOLERANCES

A. Install aluminum-framed entrance and storefront systems to comply with the following maximum tolerances:
   1. Plumb: 1/8 inch in 10 feet; 1/4 inch in 40 feet.
   2. Level: 1/8 inch in 20 feet; 1/4 inch in 40 feet.
   3. Alignment:
      a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2 inch wide, limit offset from true alignment to 1/16 inch.
      b. Where surfaces are separated by reveal or protruding element from 1/2 to 1 inch wide, limit offset from true alignment to 1/8 inch.
      c. Where surfaces are separated by reveal or protruding element of 1 inch wide or more, limit offset from true alignment to 1/4 inch.
   4. Location: Limit variation from plane to 1/8 inch in 12 feet; 1/2 inch over total length.

3.4 FIELD QUALITY CONTROL

A. Laboratory and field testing of aluminum-framed entrance and storefront systems are not required.

B. Manufacturer's Field Service: Engage manufacturer's factory-authorized representative to inspect completed installation, including anchorage, flashing, sealants, and structural-sealant glazing, and report results in writing.

C. Egress Door Inspections: Inspect each aluminum-framed entrance door equipped with panic hardware, located in an exit enclosure, electrically controlled, or equipped with special locking arrangements, in accordance with NFPA 101, Ch. 7 "Means of Egress," Section "Means of Egress Components," Article "Inspection of Door Openings."

D. Prepare inspection reports.

END OF SECTION

SECTION 08 8000

GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:
   1. Glass for windows, doors, interior borrowed lites, and storefront framing.
   2. Glazing sealants and accessories.

B. Related Requirements:
   1. Section 10 2800 "Toilet, Bath, and Laundry Accessories" for framed mirrors.

1.2 DEFINITIONS

A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.

B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.

C. IBC: International Building Code.

D. Interspace: Space between lites of an insulating-glass unit.

1.3 COORDINATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   2. Review temporary protection requirements for glazing during and after installation.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches square.

C. Glazing Accessory Samples: For sealants and colored spacers, in 12-inch lengths. Install sealant Samples between two strips of material representative in color of the adjoining framing system.

D. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.

E. Delegated-Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer, manufacturers of insulating-glass units with sputter-coated, low-E coatings, glass testing agency, and sealant testing agency.

B. Product Certificates: For glass.

C. Product Test Reports: For coated glass, insulating glass, and glazing sealants, for tests performed by a qualified testing agency.
   1. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36-month period.

D. Preconstruction adhesion and compatibility test report.

E. Sample Warranties: For special warranties.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved and certified by coated-glass manufacturer.

B. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.

C. Glass Testing Agency Qualifications: A qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.

D. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.

E. Mockups: Build mockups to demonstrate aesthetic effects and to set quality standards for materials and execution.
   1. Install glazing in mockups specified in Section 08 4113 "Aluminum-Framed Entrances and Storefronts" to match glazing systems required for Project, including glazing methods.
   2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 PRECONSTRUCTION TESTING

A. Preconstruction Adhesion and Compatibility Testing: Test each glass product, tape sealant, gasket, glazing accessory, and glass-framing member for adhesion to and compatibility with elastomeric glazing sealants.
   1. Testing is not required if data are submitted based on previous testing of current sealant products and glazing materials matching those submitted.
   2. Use ASTM C 1087 to determine whether priming and other specific joint-preparation techniques are required to obtain rapid, optimum adhesion of glazing sealants to glass, tape sealants, gaskets, and glazing channel substrates.
   3. Test no fewer than eight Samples of each type of material, including joint substrates, shims, sealant backings, secondary seals, and miscellaneous materials.

4. Schedule enough time for testing and analyzing results to prevent delaying the Work.
5. For materials failing tests, submit sealant manufacturer's written instructions for corrective measures including the use of specially formulated primers.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F.

1.11 WARRANTY

A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
1. Warranty Period: 10 years from date of Substantial Completion.

B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.
1. Warranty Period: 5 years from date of Substantial Completion.

C. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Glass Product: Subject to compliance with requirements, provide product indicated in glass schedules or comparable product by one of the following:
1. AGC Glass Company North America, Inc.
2. Guardian Industries Corp.
3. Pilkington North America.
4. Vitro Architectural Glass.
5. SCHOTT North America, Inc.
6. Viracon, Inc.

B. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.
   1. Obtain tinted glass from single source from single manufacturer.
   2. Obtain reflective-coated glass from single source from single manufacturer.

C. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.

2.2 PERFORMANCE REQUIREMENTS

A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.

B. Delegated Design: Engage a qualified professional engineer licensed in the State of Arizona, as defined in Section 01 4000 "Quality Requirements," to design glazing.

C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the IBC and ASTM E 1300.
   1. Design Wind Pressures: As indicated on Drawings.
   2. Design Snow Loads: As indicated on Drawings.
   3. Thickness of Patterned Glass: Base design of patterned glass on thickness at thinnest part of the glass.
   4. Probability of Breakage for Sloped Glazing: For glass surfaces sloped more than 15 degrees from vertical, design glass for a probability of breakage not greater than 0.001.
   5. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch, whichever is less.

D. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.

E. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
   1. For monolithic-glass lites, properties are based on units with lites 1/4 inch thick.
   2. For laminated-glass lites, properties are based on products of construction indicated.
   3. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
   4. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
   5. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
   6. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.3 GLASS PRODUCTS, GENERAL

A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
   1. GANA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual."
   2. AAMA Publications: AAMA GDSG-1, "Glass Design for Sloped Glazing," and AAMA TIR A7, "Sloped Glazing Guidelines."
   3. IGMA Publication for Sloped Glazing: IGMA TB-3001, "Guidelines for Sloped Glazing."

4. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."

B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.

C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.
1. Minimum Glass Thickness for Exterior Lites: 1/4 inch.
2. Thickness of Tinted Glass: Provide same thickness for each tint color indicated throughout Project.

E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.4 GLASS PRODUCTS

A. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-Q3.

B. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
    a. Roll-Wave Distortion Limits: Maximum peak to valley deviation of 0.003 inch in center field of lite, and 0.008 inch within 10.5 inches of leading and trailing edges.
    b. Millidiopter: Plus or minus 100 mD over 95 percent of glass surface.
    c. Overall Bow/Warp, Maximum: ASTM C 1048 Table 2 requirements, but not exceeding 0.50-inch regardless of edge dimension.
    d. Maintain measurement documentation for each lite. Upon request provide documentation for verification.
2. Heat Soak Testing: Provied heat soak testing conforming to EN14179, 2-hour dwell at 550 Degrees F +/- 18 Degrees F.

C. Heat-Strengthened Float Glass: ASTM C 1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
    a. Roll-Wave Distortion Limits: Maximum peak to valley deviation of 0.003 inch in center field of lite, and 0.008 inch within 10.5 inches of leading and trailing edges.
    b. Millidiopter: Plus or minus 100 mD over 95 percent of glass surface.
    c. Overall Bow/Warp, Maximum: ASTM C 1048 Table 2 requirements, but not exceeding 0.50-inch regardless of edge dimension.
    d. Maintain measurement documentation for each lite. Upon request provide documentation for verification.

D. Ceramic-Coated Vision Glass: ASTM C 1048, Condition C, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3; and complying with Specification No. 95-1-31 in GANA's "Engineering Standards Manual."

2.5 LAMINATED GLASS

A. Laminated Glass: ASTM C 1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
   1. Construction: Unless otherwise indicated, laminate glass with polyvinyl butyral interlayer or ionomeric polymer interlayer to comply with interlayer manufacturer's written instructions.
   2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
   3. Interlayer Color: Clear unless otherwise indicated.

2.6 INSULATING GLASS

A. Insulating-Glass Units: Factory-assembled units consisting of hermetic sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.
   1. Sealing System: Dual seal, with polyisobutylene and silicone primary and secondary sealants.
   2. Spacer: Provide spacers with bent corners.
   3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.7 GLAZING SEALANTS

A. General:
   1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
   2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
   3. Field-applied sealants shall have a VOC content of not more than 250 g/L.
   4. Colors of Exposed Glazing Sealants: Black.

B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 50, Use NT, Gray.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Dow Corning Corporation; 795.
      b. GE Advanced Materials - Silicones; SilPruf NB SCS9000.
      c. May National Associates, Inc.; Bondaflex Sil 295.
      d. Pecora Corporation; 895NST.
      e. Polymeric Systems, Inc.; PSI-641.
      f. Sika Corporation U.S.; Sikasil WS-295.
      g. Tremco Incorporated; Spectrem 2.

2.8 GLAZING TAPES

A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:

1. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
2. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.

B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.9 MISCELLANEOUS GLAZING MATERIALS

A. General: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.

D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.

E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.10 FABRICATION OF GLAZING UNITS

A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
    a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.

C. Grind smooth and polish exposed glass edges and corners.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:

1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
2. Presence and functioning of weep systems.
3. Minimum required face and edge clearances.
4. Effective sealing between joints of glass-framing members.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.

C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.

D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.

E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.

F. Provide spacers for glass lites where length plus width is larger than 50 inches.
1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.

G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.

I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.

J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.

K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

3.4 TAPE GLAZING

A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.

B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.

C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.

D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.

E. Do not remove release paper from tape until right before each glazing unit is installed.

F. Apply heel bead of elastomeric sealant.

G. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.

H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.

C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.

B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.

C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

A. Immediately after installation remove nonpermanent labels and clean surfaces.

B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
   1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.

C. Remove and replace glass that is damaged during construction period.

D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.8 INSULATING GLASS SCHEDULE

A. Glass Type GL-1, Exterior: Low-E-coated, clear insulating glass, 1 inch overall thickness, for exterior storefront, entrances, fixed windows, and operable vents.
   1. Energy Compliance: Glass performance shall be coordinated with storefront framing so that installed systems comply with values in Project energy compliance documentation (COMcheck): system U-factor 0.34 maximum and system SHGC 0.25 maximum.
   2. Overall Unit Thickness: 1 inch.
   3. Indoor and Outdoor Lites: Heat-strengthened or fully tempered float glass.
   4. Interspace Content: Air.
   5. Low-E Coating: Sputtered on second surface.
   6. Winter Nighttime U-Factor: 0.29 maximum, center of glass.
   7. Visible Light Transmittance: 62 percent minimum, center of glass.
   8. Solar Heat Gain Coefficient: 0.27 maximum, center of glass, and as required for storefront system to achieve SHGC of 0.25 maximum specified in Section 08 4113 "Aluminum-Framed Entrances and Storefronts."
   9. Safety glazing label required for fully tempered glass.
   10. ~~Available Products:~~Basis-of-Design Product: Vitro Architectural Glass; Solarban 70 (2) on clear, or comparable product by one of the following:
       a. AGC Flat Glass North America, Inc.; Energy Select 28.
       ~~b.~~ Guardian Industries Corporation; SNX 62/27.
       ~~c.~~b. ~~Vitro Architectural Glass; Solarban 70.~~
       ~~d.~~c. Viracon, Inc.; ~~VNE1-53~~VNE1-63.

B. Glass Type GL-2, Interior: Clear float glass, 1/4 inch thick, for interior storefront, entrances, doors, and borrowed lites. Provide fully tempered glass where indicated on Drawings and where safety glazing is required by authorities having jurisdiction.
   1. Safety glazing label required for fully tempered glass.

END OF SECTION

SECTION 09 5113

ACOUSTICAL PANEL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Suspended 2-by-2-foot acoustical panel ceilings on exposed 9/16-inch suspension system, Ceiling Type A.
   2. Direct-attached 2-by-4-foot field-paintable acoustical panel ceilings, screw-attached to drywall grid suspension system, Ceiling Type A1.

B. Related Requirements:
   1. Section 06 1000 "Rough Carpentry" for wood blocking and framing at ceiling openings.
   2. Section 08 6223 "Tubular Skylights" for ceiling-level diffuser assemblies installed in acoustical panel ceilings.
   3. Section 09 2216 "Non-Structural Metal Framing" for suspension systems supporting gypsum board ceilings, Ceiling Type B.
   4. Section 09 2900 "Gypsum Board" for gypsum board ceilings and for acoustical sealant.
   5. Section 09 9123 "Interior Painting" for field painting of Ceiling Type A1 panels. Ceiling Type A panels are not field painted.
   6. Division 21 for sprinkler heads, Division 23 for air distribution devices, and Division 26 for light fixtures located in acoustical panel ceilings.

1.2 DEFINITIONS

A. Seismic Design Category (SDC): As defined in ASCE/SEI 7 and indicated on Structural Drawings. This Project is assigned Seismic Design Category B.

1.3 COORDINATION

A. Coordinate layout and installation of acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, tubular skylight diffusers, and partition assemblies.

B. Sprinkler Heads: Center sprinkler heads in Ceiling Type A panels as required by Division 21.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product, including acoustical panels, suspension system components, edge moldings and trims, fasteners, and attachment accessories.

B. Coordination Drawings: Reflected ceiling plans, drawn to scale, showing suspension system members, panel layout and joint pattern, method of attaching hangers to building structure, and items penetrating the ceiling or supported by it.

C. Samples for Verification: For each type of acoustical panel, full-size panel; and for each exposed suspension system member and molding, 6-inch-long sample in specified finish.

1.5 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each acoustical panel ceiling, for tests performed by a qualified testing agency, showing compliance with acoustical, surface-burning, and light-reflectance requirements.

B. Field-Painting Instructions: Panel manufacturer's written requirements for field painting Ceiling Type A1 panels.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For finishes, including cleaning instructions, to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Extra Materials: Furnish extra materials from same production run that match products installed, packaged with protective covering and labeled.
   1. Acoustical Panels: Full-size panels equal to 2 percent of quantity installed for each type, but not less than one carton.
   2. Suspension System Components: Quantity of each exposed component equal to 2 percent of quantity installed.
   3. Fasteners for Ceiling Type A1: Not less than one carton.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: Firm experienced in installing acoustical panel ceilings of type and size required for this Project, acceptable to manufacturer.

B. Source Limitations: Obtain each type of acoustical panel and its supporting suspension system from single manufacturer.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical panels and suspension components in manufacturer's unopened, labeled packaging. Store in fully enclosed, conditioned spaces, protected from moisture, soiling, and damage.

B. Acclimatize panels to room temperature and humidity for not less than 24 hours before installation, or as recommended by manufacturer.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above ceilings is complete, and HVAC is operating continuously and maintaining occupancy-level temperature and humidity.

1.11 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace acoustical panels and suspension system that fail within warranty period, when panels are installed on manufacturer's suspension system and accessories according to manufacturer's written instructions.
   1. Ceiling Type A: Visible sag and growth of mold or mildew; warranty period 30 years from date of Substantial Completion.
   2. Ceiling Type A1: Manufacturer's standard system warranty; warranty period 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide acoustical panels and suspension systems by Armstrong World Industries, Inc., as indicated for each ceiling type, or comparable products by one of the following. Submit a cross-reference submittal for comparable products.
   1. CertainTeed Ceilings.
   2. ROCKFON (Chicago Metallic Company LLC).
   3. USG Corporation.

B. Substitutions: Comply with Section 01 2500 "Substitution Procedures."

2.2 PERFORMANCE REQUIREMENTS

A. Surface-Burning Characteristics: Class A according to ASTM E1264, flame-spread index of 25 or less and smoke-developed index of 50 or less according to ASTM E84. Ceiling Type A panels shall bear UL Classification marking.

B. Seismic Performance: Project is assigned Seismic Design Category B. Ceilings in Seismic Design Category B are exempt from the seismic design requirements of ASCE/SEI 7, Chapter 13, and the requirements of ASTM E580 do not apply.
   1. Provide suspension systems installed according to ASTM C636/C636M and the typical ceiling suspension and bracing details on Drawings: Details C4 and C5/A520 for Ceiling Type A, and Detail D2/A520 for Ceiling Type A1.
   2. Provide splay wires, compression posts, and perimeter attachment only where shown on those details. Seismic separation joints, 2-inch-wide perimeter closure angles, seismic perimeter clips, and delegated seismic design are not required.

2.3 ACOUSTICAL PANELS, GENERAL

A. Acoustical Panel Standard: Comply with ASTM E1264.

B. Mold and Mildew Resistance: Provide panels with mold- and mildew-resistant surface treatment, tested according to ASTM D3273 with a rating of 10.

2.4 ACOUSTICAL PANELS, CEILING TYPE A

A. Basis-of-Design Product: Armstrong World Industries, Inc.; Ultima Beveled Tegular, Item 1912.

B. Classification: ASTM E1264, Type A, Form A2.2, Pattern E; Fire Class A.

C. Composition: Wet-formed mineral fiber.

D. Color: White.

E. Light Reflectance (LR): Not less than 0.88, according to ASTM E1477.

F. Noise Reduction Coefficient (NRC): Not less than 0.75, according to ASTM C423.

G. Ceiling Attenuation Class (CAC): Not less than 35, according to ASTM E1414.

H. Humidity Resistance: Manufacturer's sag-resistant panels (HumiGuard Plus).

I. Edge/Joint Detail: Beveled tegular, sized to fit 9/16-inch-wide exposed flange of suspension system.

J. Thickness: 3/4 inch.

K. Modular Size: 24 by 24 inches.

2.5 ACOUSTICAL PANELS, CEILING TYPE A1

A. Basis-of-Design Product: Armstrong World Industries, Inc.; InvisAcoustics, Field-Paintable, Item 1212FP.

B. Classification: ASTM E1264, Type A, Form A2.2, Pattern G; Fire Class A.

C. Composition: Wet-formed mineral fiber with factory-applied scrim face, unfinished, for field painting.

D. Noise Reduction Coefficient (NRC): Not less than 0.75 with manufacturer's drywall grid attachment, according to ASTM C423.

E. Edge/Joint Detail: Square, all sides.

F. Thickness: 3/4 inch.

G. Modular Size: 24 by 48 inches nominal; 23-3/4 by 47-3/4 inches actual.

H. Fasteners: Manufacturer's all-in-one self-stop panel fastener, Item 1221, 1-1/4 inches long, white. Six fasteners per full-size panel.

I. Field Finish: Field paint as specified in Section 09 9123 "Interior Painting," color PX as indicated in Finish Schedule, applied by spray according to panel manufacturer's written instructions.

2.6 METAL SUSPENSION SYSTEM, CEILING TYPE A

A. Basis-of-Design Product: Armstrong World Industries, Inc.; Suprafine XL 9/16-inch Exposed Tee.

B. Metal Suspension System Standard: Comply with ASTM C635/C635M.

C. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll-formed from cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized, G30 coating designation, with prefinished 9/16-inch-wide metal caps on flanges.
   1. Structural Classification: Intermediate-duty system, minimum.
   2. End Condition of Cross Runners: Override (stepped) or butt-edge type.
   3. Face Design: Flat, flush.
   4. Cap Finish: Painted white to match panels.

2.7 METAL SUSPENSION SYSTEM, CEILING TYPE A1

A. Basis-of-Design Product: Armstrong World Industries, Inc.; FrameAll Drywall Grid System, consisting of HD8906 heavy-duty main beams, XL8945 cross tees, and QSUTC QuickStix uptight clips, as required by panel manufacturer for InvisAcoustics panels.

B. Metal Suspension System Standard: Comply with ASTM C645.

C. Layout: Space suspension members as required by panel manufacturer, with members located 4 inches from panel edges; three rows at 20 inches o.c. under 4-foot panel length and two rows at 16 inches o.c. under 2-foot panel width.

D. Alternate Support: Where indicated on Drawings, 25-gauge, 7/8-inch-deep hat-shaped steel furring channels as specified in Section 09 2216 "Non-Structural Metal Framing," spaced as required for drywall grid.

2.8 METAL EDGE MOLDINGS AND TRIM

A. Ceiling Type A: Roll-formed, sheet-metal edge moldings and trim of manufacturer's standard type and profile required to fit acoustical panel edge details and suspension system, same finish and color as suspension system.

B. Ceiling Type A1: Manufacturer's standard perimeter trim compatible with direct-attached panels, finished to receive field paint, or as detailed on Drawings.

2.9 ACCESSORIES

A. Attachment Devices: Size for five times design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated.

B. Wire Hangers, Braces, and Ties: Zinc-coated, carbon-steel wire, ASTM A641/A641M, Class 1 zinc coating, soft temper.
   1. Hanger Diameter: Not less than 0.106 inch (12 gage), sized so stress at three times hanger design load will be less than yield stress of wire.

C. Hold-Down Clips: Manufacturer's standard hold-down clips where required by manufacturer.

D. Touch-Up Paint for Field-Cut Edges: As recommended by panel manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, including structural framing to which hangers will be attached, for compliance with requirements and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders. Comply with layout shown on reflected ceiling plans.

B. Coordinate furnishing of anchors and inserts for attachment of hangers to structure above with installers of that work.

3.3 INSTALLATION OF SUSPENSION SYSTEMS, GENERAL

A. Install suspension systems according to ASTM C636/C636M, manufacturer's written instructions, and details on Drawings. Seismic bracing beyond that shown on Details C4, C5, and D2/A520 is not required for Seismic Design Category B.

B. Suspend ceiling hangers from building's structural members and as follows:
   1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
   2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
   3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
   4. Do not attach hangers to steel deck tabs, to steel roof deck, or to ducts, pipes, conduit, or equipment.
   5. Space hangers not more than 48 inches o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.

C. Where shown on Details C4 and C5/A520, install splay wires and compression posts as detailed.

D. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

E. Support light fixtures, air distribution devices, and other ceiling-mounted items independently of acoustical panels. Provide additional hangers within 6 inches of each corner of light fixtures supported by suspension system.

3.4 INSTALLATION OF ACOUSTICAL PANELS, CEILING TYPE A

A. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels. Screw-attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends. Miter corners accurately and connect securely.

B. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
   1. Field-cut tegular edges at borders to match factory edge profile, using manufacturer's recommended tools; paint field-cut reveal edges to match factory finish.
   2. Install hold-down clips where required by manufacturer.
   3. Do not field paint Ceiling Type A panels.

3.5 INSTALLATION OF ACOUSTICAL PANELS, CEILING TYPE A1

A. Install direct-attached acoustical panels according to Armstrong "InvisAcoustics Ceiling & Wall Panels Assembly and Installation Instructions" and Detail D2/A520.

B. Attachment: Screw-attach each full-size panel to drywall grid or furring with six manufacturer's fasteners, located approximately 4 inches from panel edges. Adhesive-only attachment is not permitted.

C. Clearances: Maintain not less than 6 inches between edge of suspension system and obstructions.

D. Field-cut panels as required at borders and penetrations, maintaining manufacturer's fastener locations and support within 4 inches of cut edges.

E. Field painting: After installation, field paint panels as specified in Section 09 9123 "Interior Painting," by spray application only. Do not apply paint by roller or brush.

3.6 TOLERANCES

A. Install suspended and direct-attached acoustical panel ceilings to a level tolerance of 1/8 inch in 12 feet, non-cumulative.

B. Install suspension-system runners and joints between panels to a straightness tolerance of 1/8 inch in 12 feet, non-cumulative.

3.7 CLEANING

A. Clean exposed surfaces of acoustical panel ceilings, including trim and edge moldings, according to manufacturer's written instructions. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

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APPENDICES

Geotechnical Investigation Report, dated June 25, 2026

Navajo Nation - Window Rock Peacemaking - Question and Answer

Date	Question #	Question	Response	Status	BIC - Ball in Court
		List your question here			
10/22/2026	1	Applicability: Does the 49% limit apply to all bidders, or only to bidders claiming an NBOA Priority One or Priority Two preference? (Section 00 2200, Article 1.7 (Subcontracted Work) and the related representation in Section 00 4100, Article 8:)	The 49% limit applies to all Bidders, whether or not they claim an NBOA Priority One or Priority Two preference. Section 00 2200 §1.7 is a requirement of the Contract, and every Bidder makes the representation in Bid Form Article 8. If the Bidder is claming Priority One preference, then the Bidder must perform 51% or more of the work. If the Bidder is claiming Priority Two preference, then the Bidder must perform 49% or more of the work.	Included in Pre-Bid Meeting Minutes	
	2	Basis of measurement: Is “total performance under the Contract” measured as a percentage of the Contract Sum (dollars), as a percentage of labor cost, or by some other method? (Section 00 2200, Article 1.7 (Subcontracted Work) and the related representation in Section 00 4100, Article 8:)	“Total performance under the Contract” is measured in dollars, as a percentage of the Contract Sum. Bidders show compliance using the Breakdown of Major Subcontractor Pricing in Bid Form Article 6. After award, it is tracked through the Schedule of Values.	Included in Pre-Bid Meeting Minutes	
	3	**Contractor-purchased materials:** Do materials and equipment purchased directly by the Contractor and installed by its own forces count as Contractor performance? Do materials purchased directly by the Contractor and installed by a subcontractor count toward the Contractor or the subcontractor? In other words, does “suppliers” in Article 1.7 mean material bought by subcontractors, or all material? (Section 00 2200, Article 1.7 (Subcontracted Work) and the related representation in Section 00 4100, Article 8:)	Contractor-purchased materials - Materials and equipment the Contractor buys directly and installs with its own forces count as Contractor performance. - Materials the Contractor buys directly but a subcontractor installs count toward the Contractor and the labor counts toward the subcontractor. - All materials furnished by a subcontractor or its suppliers count as subcontracted work. - “Suppliers” in §1.7 means suppliers that furnish material under a subcontract or for a subcontractor’s scope. It does not mean vendors selling directly to the Contractor for installation by the Contractor’s own forces.	Included in Pre-Bid Meeting Minutes	
	4	**General conditions:** Do the Contractor’s general conditions, project management, supervision, bonds, insurance and fee count as Contractor performance? (Section 00 2200, Article 1.7 (Subcontracted Work) and the related representation in Section 00 4100, Article 8:)	Yes. General conditions, project management, supervision, bonds, insurance, overhead and fee count as Contractor performance. Bid Form Article 6 lists them as a separate line item assigned to the Bidder. Any part of this work given to a third party, such as an outside scheduling or safety consultant, counts as subcontracted.	Included in Pre-Bid Meeting Minutes	
	5	Joint ventures: For a joint venture bid, does work self-performed by any JV member count as Contractor performance? Must each JV member be separately licensed and registered? (Section 00 2200, Article 1.7 (Subcontracted Work) and the related representation in Section 00 4100, Article 8:)	Work self-performed by any joint venture (JV) member counts as Contractor performance, because the JV is the Contractor. - The JV must be registered as a joint venture and submit a Certificate of Good Standing (00 2200 §1.5.C.4). - Each member must be properly licensed for the Work it performs, and proof of licensing must be submitted with the Bid (§1.5.C.5). - A JV claiming an NBOA priority must submit current NBOA certification for the JV.	Included in Pre-Bid Meeting Minutes	
	6	Affiliates: Does work performed by a parent company or commonly owned affiliate of the bidder count as Contractor performance, or as subcontracted work? (Section 00 2200, Article 1.7 (Subcontracted Work) and the related representation in Section 00 4100, Article 8:)	Work by a parent company, subsidiary or commonly owned affiliate counts as subcontracted work unless that entity is the Bidder or a member of a JV Bidder. Affiliates are separate entities, so they must be listed in Exhibit 1 of the Certification Regarding Responsibility for Subcontractors.	Included in Pre-Bid Meeting Minutes	

Navajo Nation - Window Rock Peacemaking - Question and Answer

Date	Question #	Question	Response	Status	BIC - Ball in Court
		List your question here			
	7	**Compliance:** Is compliance evaluated at bid time from the subcontractor breakdown and Exhibit 1, or monitored during construction? What documentation will the Owner require? (Section 00 2200, Article 1.7 (Subcontracted Work) and the related representation in Section 00 4100, Article 8:)	Compliance is checked both at bid time and during construction. At bid time: the Owner reviews Bid Form Article 6, the Article 8 representation, and Exhibit 1 as part of deciding whether the Bid is responsive and the Bidder is responsible. After award: the Contractor maintains compliance through the Subcontract List (01 3100), the Schedule of Values, which has separate line items for subcontracts over 5% of the Contract Sum (01 2900), and each Application for Payment. The Owner may ask for subcontract and purchase order values to verify compliance. Compliance must be kept up through any change in subcontractors or Change Orders.	Included in Pre-Bid Meeting Minutes	
	8	Can this certification be waived? (Section 05 1200 - 1.07 Quality Assurance)	Yes the certification can be waived. However, if the GC does not use an AISC certified shop, then the owner will provide third party inspections to verify code compliance.		
	9	Can a special inspection be used in lue of AICS Certification? (Section 05 1200 - 1.07 Quality Assurance)	See above		
	10	The spec allows copper or aluminum for feeders No. 4 AWG and larger, while requiring copper for smaller feeders and branch circuits. Please confirm with NTUA and the design team whether the conductors between the NTUA transformer and the metering switchgear must be copper. Also, please confirm whether aluminum is acceptable for eligible feeders downstream of the metering switchgear, and whether the conductor sizes shown on the drawings need to be adjusted if aluminum is used. The spec lists “ASTM 800 and ASTM 801” for aluminum conductors. Please confirm the intended standard designation as well.	All conductors and feeders will be copper. The updated Power Single Line Diagram will be provided in Addendum 01		
	11	There are 5ea BO fixtures shown on ES100.1 that are not on the fixture schedule. Can you get me a specified part number for them.	The Lighting Fixture Schedule has been updated to include fixture BO and the approved Manufactures on Sheet E600.6 in Addendum 01. The Above All LED Moon is the Basis of our design.		
	12	Is Heat Soaking required for the tempered glass	Section 08 80 00 2.4 B 2 states that heat soaking is required		
	13	Specs show VNE1-53 but drawings show Solarban70, which is to be used	Solarban 70 (Vitro) on clear, as indicated on the Drawings, is the basis of design. Section 08 8000 will be revised by Addendum to list Solarban 70, with Viracon and other listed manufacturers acceptable if they meet its published VLT, SHGC and U-value.		
	14	Drawings callout Curtainwall at some elevations but no Curtainwall spec was provided and none of these windows require to be curtainwall. Is it storefront but with the glazing plane as the front	There is no "curtainwall". Everything is storefront with the glazing plane to the front for B3 and glazing to the center for the remainder of the windows		
	15	There are two different performing systems shown in the storefront specs, 451UT and 451T, is this correct? UT is Ultra-Thermal and T is just standard Thermal, please clarify.	Trifab 451T, is the basis of design for all storefront. References to 451UT will be deleted from Section 08 4113 by Addendum. Window Type B3 is front glazed with SSG joints to reduce the vertical mullions. All other windows on the project will be center glazed.		

Navajo Nation - Window Rock Peacemaking - Question and Answer

Date	Question #	Question	Response	Status	BIC - Ball in Court
		List your question here			
	16	Is Tubelite an acceptable Storefront Manufacturer? We can provide all systems equal to Kawneer's systems	Tubelite is generally accepted as an equal to Kawneer, however final approval of tubelite system would need to be done by the submittal review process and would need to meet all performance criteria for the Kawneer 451 T system.		
	17	A120.1 east wall Lecture Room B120B shows the windows as B-2, B1/A220 East Elevation shows the same walls with windows as B-5, please clarify window type required	The plan stating B-2 is incorrect. The elevation showing B-5 is correct.		
	18	Could VBCO Architects please identify the type of acoustical ceiling grid and ceiling tile for this project?	The acoustical ceiling has been added to the specifications		

FIRE RATING LEGEND

FIRE EXTINGUISHER

AED (AUTOMATED EXTERNAL DEFIBRILLATOR) CABINET

LIGHT FIXTURE EXIT LEGEND

EXIT LIGHTING, SEE ELECTRICAL PLANS FOR TYPE AND LOCATION

ILLUMINATED SURFACE

EXIT PATH

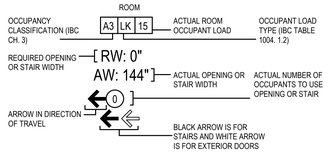
OCCUPANCY LEGEND

FIRE EXTINGUISHERS PATH OF TRAVEL

PATH OF TRAVEL TO EXIT

COMMON PATH OF TRAVEL TO EXIT

ACCESSIBLE ROUTE



OCCUPANCY CALCULATION LEGEND

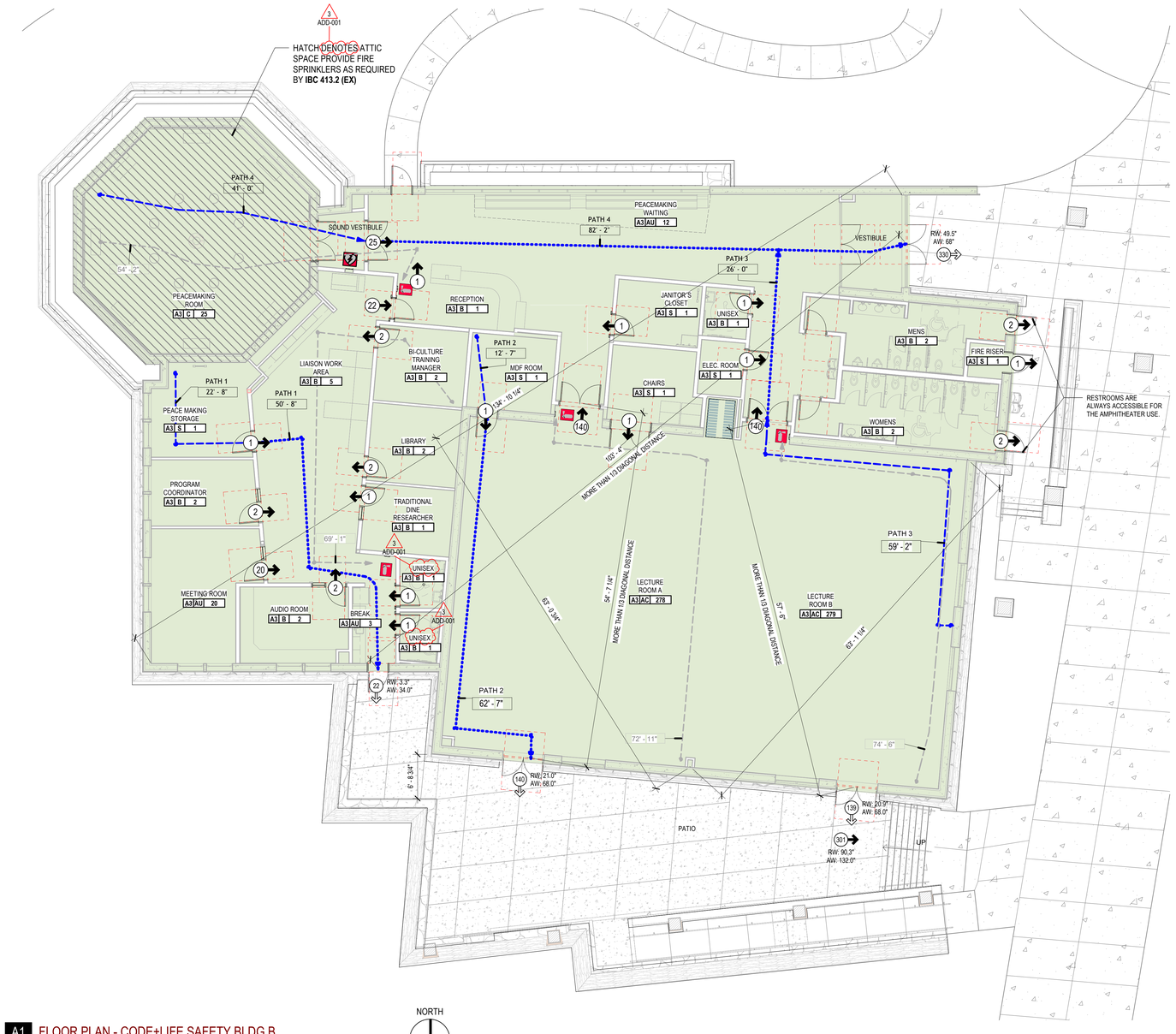
FUNCTION OF SPACE	KEY - TABLE 10-A	OCCUPANT LOAD FACTOR
AC	ASSEMBLY - CONCENTRATED (CHAIRS ONLY (NOT FIXED)	7
AU	ASSEMBLY - UNCONCENTRATED (TABLES AND CHAIRS) OUTDOOR	15
B	BUSINESS AREAS	150
C	COURTROOM - OTHER THAN FIXED AREAS	40
S	ACCESSORY STORAGE AREA, MECHANICAL, EQUIPMENT ROOM	300

LEGEND - OCCUPANCY - LEVEL 01 - BLDG B

BUILDING	FUNCTION OF SPACE	TABLE 10-A	OCCUPANT LOAD FACTOR	TOTAL OCCUPANTS
B	AC	ASSEMBLY - CONCENTRATED (CHAIRS ONLY (NOT FIXED)	7	557
B	AU	ASSEMBLY - UNCONCENTRATED (TABLES AND CHAIRS) OUTDOOR	15	35
B	B	BUSINESS AREAS	150	20
B	C	COURTROOM - OTHER THAN FIXED AREAS	40	25
B	S	ACCESSORY STORAGE AREA, MECHANICAL, EQUIPMENT ROOM	300	6
Grand total				643

PLUMBING FIXTURE ANALYSIS BLDG B + AMPHITHEATER

IBC 2021 2902.1				TOTAL	
BUILDING B			**AMPHITHEATER**		
OCCUPANCY TYPE	**A3**		**A5**	**A3+A5**	
OCCUPANTS	**643**		**157**		
OCCUPANTS DIVIDE BY 2	**643** TOTAL **322** EA. MALE & FEMALE		**157** TOTAL **79** EA. MALE & FEMALE		
WATER CLOSETS	**REQUIRED**		**REQUIRED**	**REQUIRED**	**PROVIDED**
FEMALE (1:**65**)	**4.96**		**1.21**	**7**	**9**
MALE (1:**125**) URINALS (67% OF WC IN A AND E, 50% ALL OTHER OCCUPANCIES)	**2.58**		**0.63**	**4**	**6**
LAVATORIES	**REQUIRED**		**REQUIRED**	**REQUIRED**	**PROVIDED**
FEMALE (1:**200**)	**1.61**		**0.39**	**2**	**5**
MALE (1:**200**)	**1.61**		**0.39**	**2**	**4**
DRINKING FOUNTAINS (HIGH/LOW PER 1109.5.1)	**REQUIRED**		**REQUIRED**	**REQUIRED**	**PROVIDED**
1:**500** OCCUPANTS 410.3 REQUIRED DRINKING FOUNTAINS WHERE WATER IS SERVED IN RESTAURANTS, DRINKING FOUNTAINS SHALL NOT BE REQUIRED. IN OTHER OCCUPANCIES, WHERE DRINKING FOUNTAINS ARE REQUIRED, UP TO 50 PERCENT OF REQUIRED DRINKING FOUNTAINS CONFORMING TO SECTION 410.1 MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10 INCHES (254 MM) IN HEIGHT, PROVIDED ANY SUCH DEDICATED PLUMBING FIXTURE IS ADJACENT TO OR READILY VISIBLE FROM THE LOCATION OF A DRINKING FOUNTAIN CONFORMING TO SECTION 410.1. BOTTLED WATER DISPENSERS SHALL NOT BE SUBSTITUTED FOR REQUIRED DRINKING FOUNTAINS.	**1.28**		**0.31**	**2**	**4** BOTTLE **2** FILLER



A1 FLOOR PLAN - CODE+LIFE SAFETY BLDG B

SCALE: 1/8" = 1'-0"

NORTH

CODE COMPLIANCE CALCULATIONS - BUILDING B

GOVERNING BUILDING CODES:
IBC 2021; ANSI 117-1 2017; IECC 2021 IMC 2021; NEC 2023; IPC 2021; IFC 2021.

OCCUPANCY TYPE - A-3
- **A3 - OCCUPANCY (SECTION 303.4 - GENERAL ASSEMBLY AREA)**

TYPE OF CONSTRUCTION (CIRCLE ONE)

I A | I B | II A | II B | III A | III B | IV HT | V A | (V B)

ALLOWABLE BUILDING HEIGHT: PER TABLE 504.3: **40** FEET
- **ACTUAL HEIGHT - 27'-0"**

ALLOWABLE STORIES ABOVE GRADE PLANE:
PER TABLE 504.4: **A3 = 2**
- **ACTUAL STORIES - 1**

BUILDING AREA: PER TABLE 506.2.2

AA = ALLOWABLE AREA (SQUARE FEET).
AT = TABULAR ALLOWABLE AREA FACTOR (NS, S1, S13R OR S13D VALUE, AS APPLICABLE) IN ACCORDANCE WITH TABLE 506.2.
NS = TABULAR ALLOWABLE AREA FACTOR IN ACCORDANCE WITH TABLE 506.2 FOR NONSPRINKLERED BUILDING REGARDLESS OF WHETHER THE BUILDING IS SPRINKLERED).
IF = AREA FACTOR INCREASE DUE TO FRONTAGE (PERCENT) AS CALCULATED IN ACCORDANCE WITH SECTION 506.3.

IF: = [463 FT / 463FT - 0.25] 30/30 = .75

- **AREA MODIFICATIONS (A3 OCCUPANCY)** - 506.2.1 **SINGLE-OCCUPANCY**
  AA = AT + (NS X IF) (EQUATION 5-1)
  AA = **24,000** SF + (**6,000** X **.75**) = **28,500** SQUARE FEET PER STORY

PER EXCEPTION TO 506.2.2 TOTAL BUILDING AREA IS AGGREGATE SUM OF RATIOS OF ACTUAL AREA FOR EACH STORY DIVIDED BY ALLOWABLE AREA SHALL NOT EXCEED 4.

LEVEL 1	A-3 OCC
ACTUAL	11,103SF
ALLOWED	28,500 SF

INCIDENTAL USE AREAS: PER TABLE 509
- ELECTRICAL INSTALLATIONS AND TRANSFORMERS
  - SEE SECTIONS 110.26 THROUGH 110.34 AND SECTIONS 450.8 THROUGH 450.48 OF NFPA 70 FOR PROTECTION AND SEPARATION REQUIREMENTS.

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:
PER TABLE 601
- PRIMARY STRUCTURAL FRAME - **0** HOUR
- BEARING WALLS
  EXTERIOR - **0** HOUR
  INTERIOR - **0** HOUR
- NON-BEARING WALLS & PARTITION
  INTERIOR - **0** HOUR
- FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS - **0** HOUR
- ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS - **0** HOUR

AUTOMATIC SPRINKLER SYSTEM: PER SECTION 903 - **YES**

EGRESS WIDTH FOR OCCUPANCY SERVED: PER 1005
- STAIRS: 0.3 IN / **OCC**. OR 0.2 IN / **OCC**. IF AUTOMATIC SPRINKLER PER 903.3.1.1 OR 903.3.1.2 **AND** EMERGENCY VOICE/ALARM PER 907.5.2.2
- OTHER EGRESS: 0.2 IN / **OCC**. OR 0.15 IN / **OCC**. IF AUTOMATIC PER 903.3.1.1 OR 903.3.1.2 **AND** EMERGENCY VOICE/ALARM PER 907.5.2.2

EXIT ACCESS - CH. 10

COMMON PATH OF EGRESS TRAVEL: PER TABLE 1006.2.1
- (MEASURED FROM THE MOST REMOTE POINT WITHIN A STORY TO THAT POINT WHERE THE OCCUPANTS HAVE SEPARATE ACCESS TO TWO EXITS OR EXIT ACCESS DOORWAYS).
- **1006.2.1** WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1

2 EXITS REQUIRED - PER 1006.3.2
- WHERE THE OCCUPANCY LOAD TOTALS MORE THAN 50
- PLACE FAR ENOUGH APART - NOT LESS THAT 1/3 FOR SPRINKLERED BUILDINGS MAXIMUM DIAGONAL DIMENSION OF AREA SERVED (MEASURED STRAIGHT LINE BETWEEN EXITS)

THROUGH INTERVENING SPACES PER 1016.2
- PERMITTED WHERE ADJOINING ROOMS OR AREAS ACCESSORY TO THE AREAS SERVED, IS NOT HIGH HAZARD OCCUPANCY, AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.

TRAVEL DISTANCE: PER TABLE 1017.2
- WITH SPRINKLER SYSTEM - **250'** MAXIMUM LENGTH OF EXIT ACCESS TRAVEL
- SEE MEASUREMENT 1017.3 (INCLUDES COMMON PATH DISTANCE)

DEAD ENDS: PER 1020.4
- MUST BE LESS THAN 20' WHERE MORE THAN ONE EXIT IS REQUIRED;
- OR 50' IN SPRINKLERED BUILDING (EXCEPTION 2)
- OR THE LENGTH IS 2.5 TIMES THE WIDTH (EXCEPTION 3)

INTERIOR WALL & CEILING FINISH REQUIREMENTS:
- 803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS TESTED IN ACCORDANCE WITH NFPA 286.
- 803.1.2 INTERIOR WALL AND CEILING FINISH MATERIALS TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

PER TABLE 803.13
- IN NONSPRINKLERED BUILDING :
- EXIT ENCLOSURES AND EXIT PASSAGEWAYS - CLASS **B**
- CORRIDORS AND OTHER EXIT WAYS - CLASS **C**
- ROOMS AND ENCLOSED SPACES - CLASS **C**

INTERIOR FLOORS FINISH: PER 804
- IN SPRINKLERED BUILDING - CLASS I & II MATERIALS SHALL BE : CLASSIFIED IN ACCORDANCE WITH ASTM E648 OR NFPA 253

EXIT DISTANCE BUILDING B

Mark	Length	Building	COMPLIANCE
PATH 1	22' - 7 7/8"	B	
PATH 1	50' - 8 1/8"	B	
	73' - 4"		LESS THAN 250' OK
PATH 2	62' - 6 3/4"	B	
PATH 2	12' - 6 1/2"	B	
	75' - 1 1/4"		LESS THAN 250' OK
PATH 3	59' - 1 7/8"	B	
PATH 3	25' - 11 5/8"	B	
	85' - 1 5/8"		LESS THAN 250' OK
PATH 4	82' - 2 3/8"	B	
PATH 4	41' - 0 1/8"	B	
	123' - 2 1/2"		LESS THAN 250' OK

OCCUPANCY CLASSIFICATION BUILDING B

ASSEMBLY GROUP A3

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DATE: 08-28-2026

REGISTERED ARCHITECT CERTIFICATE NO. 04574 PHILIP HADERLIE STATE OF ARIZONA U.S.A.

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

CODE + LIFE SAFETY - BUILDING B

G101

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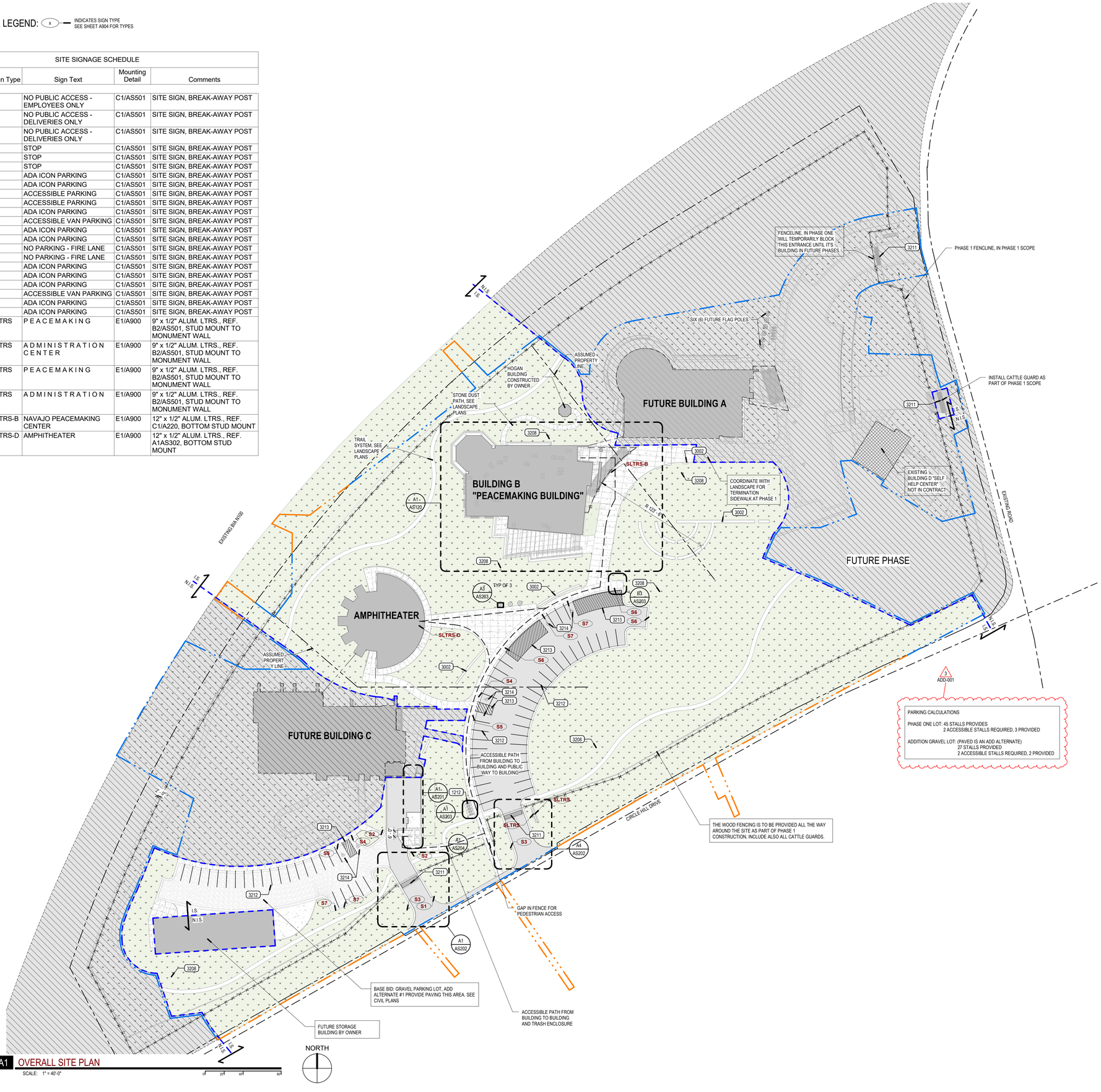
SIGN SYMBOL LEGEND: (x) — INDICATES SIGN TYPE
SEE SHEET A904 FOR TYPES

SITE SIGNAGE SCHEDULE				
Mark	Sign Type	Sign Text	Mounting Detail	Comments
S1	S1	NO PUBLIC ACCESS - EMPLOYEES ONLY	C1/AS501	SITE SIGN, BREAK-AWAY POST
S2	S2	NO PUBLIC ACCESS - DELIVERIES ONLY	C1/AS501	SITE SIGN, BREAK-AWAY POST
S2	S2	NO PUBLIC ACCESS - DELIVERIES ONLY	C1/AS501	SITE SIGN, BREAK-AWAY POST
S3	S3	STOP	C1/AS501	SITE SIGN, BREAK-AWAY POST
S3	S3	STOP	C1/AS501	SITE SIGN, BREAK-AWAY POST
S3	S3	STOP	C1/AS501	SITE SIGN, BREAK-AWAY POST
S4	S4	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S4	S4	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S4	S4	ACCESSIBLE PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S5	S4	ACCESSIBLE PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S4	S4	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S5	S5	ACCESSIBLE VAN PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S4	S5	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S6	S6	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S6	S6	NO PARKING - FIRE LANE	C1/AS501	SITE SIGN, BREAK-AWAY POST
S6	S6	NO PARKING - FIRE LANE	C1/AS501	SITE SIGN, BREAK-AWAY POST
S6	S6	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S6	S6	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S6	S7	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
S6	S7	ACCESSIBLE VAN PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
SLTRS/NAME7	S7	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
SLTRS/NAME8	S7	ADA ICON PARKING	C1/AS501	SITE SIGN, BREAK-AWAY POST
SLTRS/NAME	SLTRS	P E A C E M A K I N G	E1/A900	9" x 1/2" ALUM. LTRS., REF. B2/AS501, STUD MOUNT TO MONUMENT WALL
SLTRS/NAME	SLTRS	A D M I N I S T R A T I O N C E N T E R	E1/A900	9" x 1/2" ALUM. LTRS., REF. B2/AS501, STUD MOUNT TO MONUMENT WALL
SLTRS/NAME	SLTRS	P E A C E M A K I N G	E1/A900	9" x 1/2" ALUM. LTRS., REF. B2/AS501, STUD MOUNT TO MONUMENT WALL
SLTRS/NAME	SLTRS	A D M I N I S T R A T I O N	E1/A900	9" x 1/2" ALUM. LTRS., REF. B2/AS501, STUD MOUNT TO MONUMENT WALL
SLTRS/NAME	SLTRS-B	NAVAJO PEACEMAKING CENTER	E1/A900	12" x 1/2" ALUM. LTRS., REF. C1/A220, BOTTOM STUD MOUNT
SLTRS/NAME	SLTRS-D	AMPHITHEATER	E1/A900	12" x 1/2" ALUM. LTRS., REF. A1/AS302, BOTTOM STUD MOUNT



A1 OVERALL SITE PLAN
SCALE: 1" = 40'-0"

GENERAL SITE PLAN NOTES

1. FOUNDATION TO BE 6' ABOVE FINISHED GRADE UNO. (FOUNDATION ELEVATIONS AND SITE DRAINAGE SHALL COMPLY WITH IBC 1808.7.)
2. ALL CONNECTIONS FROM CITY STREETS TO THE BUILDING ARE TO BE PROVIDED UNDER THIS CONTRACT. CONTRACTOR TO VERIFY CITY STANDARDS FOR ROAD, CURB, UTILITY AND SIGNAGE REQUIREMENTS.
3. ALL EXTERIOR SIDEWALKS, STAIRS AND LANDINGS TO HAVE POSITIVE DRAINAGE BUT NO MORE THAN A MAXIMUM OF 1/4" SLOPE PER FOOT TO ALLOW POSITIVE DRAINAGE. ALL STAIRS AND RAMPS TO HAVE A LANDING OF 48 INCHES LONG AT THE TOP AND BOTTOM WITH A MAXIMUM SLOPE OF 1/4" PER FOOT.
4. LIGHT POLE BASE IN ALL LANDSCAPE LOCATIONS TO BE 6" ABOVE FINISHED GRADE, BE LOCATED AT LEAST 36" FROM FACE OF POLE BASE TO BACK OF CURB AND HAVE A CONCRETE MOW STRIP. VERIFY LOCATION ON SITE WITH ARCHITECT PRIOR TO ANY INSTALLATION.
5. LIGHT POLE BASE IN ALL PAVED LOCATIONS TO BE 36" ABOVE FINISHED GRADE. VERIFY LOCATION ON SITE WITH ARCHITECT PRIOR TO ANY INSTALLATION.

SITE MATERIAL LEGEND

NOTE: CONCRETE PAVING, SEE LANDSCAPE DRAWINGS, AND CIVIL DRAWINGS.

- CONCRETE PAVING, SEE LANDSCAPE DRAWINGS, AND CIVIL DRAWINGS
- NEW ASPHALT PARKING LOTS OR DRIVEWAYS, SEE CIVIL DRAWINGS.
- BUILDING
- FUTURE PHASE
- FUTURE BUILDING
- EXISTING BUILDING
- LANDSCAPE AREA - SEE LANDSCAPE PLANS
- I.S. IN SCOPE
- N.I.S. NOT IN SCOPE
- ACCESSIBLE ROUTE
- PROPERTY LINE
- LIMIT OF DISTURBANCE LINE
- PHASING LINE
- TEMPORARY PHASING LINE
- 3 RAIL WOOD FENCE REF DETAIL **A1/AS204**

KEYED NOTES

1212	BICYCLE RACKS
3002	SANDSTONE BENCH WALL SEE LANDSCAPE PLANS
3208	LANDSCAPE AREA
3211	CATTLE GUARD
3212	4" WIDE WHITE TRAFFIC STRIPING (PAINTED)
3213	STRIPED ADA ACCESS AISLE, 4" WHITE TRAFFIC STRIPING (PAINTED)
3214	UNIVERSAL SYMBOL OF ACCESSIBILITY PAINTED ON PARKING SURFACE

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

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NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

OVERALL SITE PLAN

AS100

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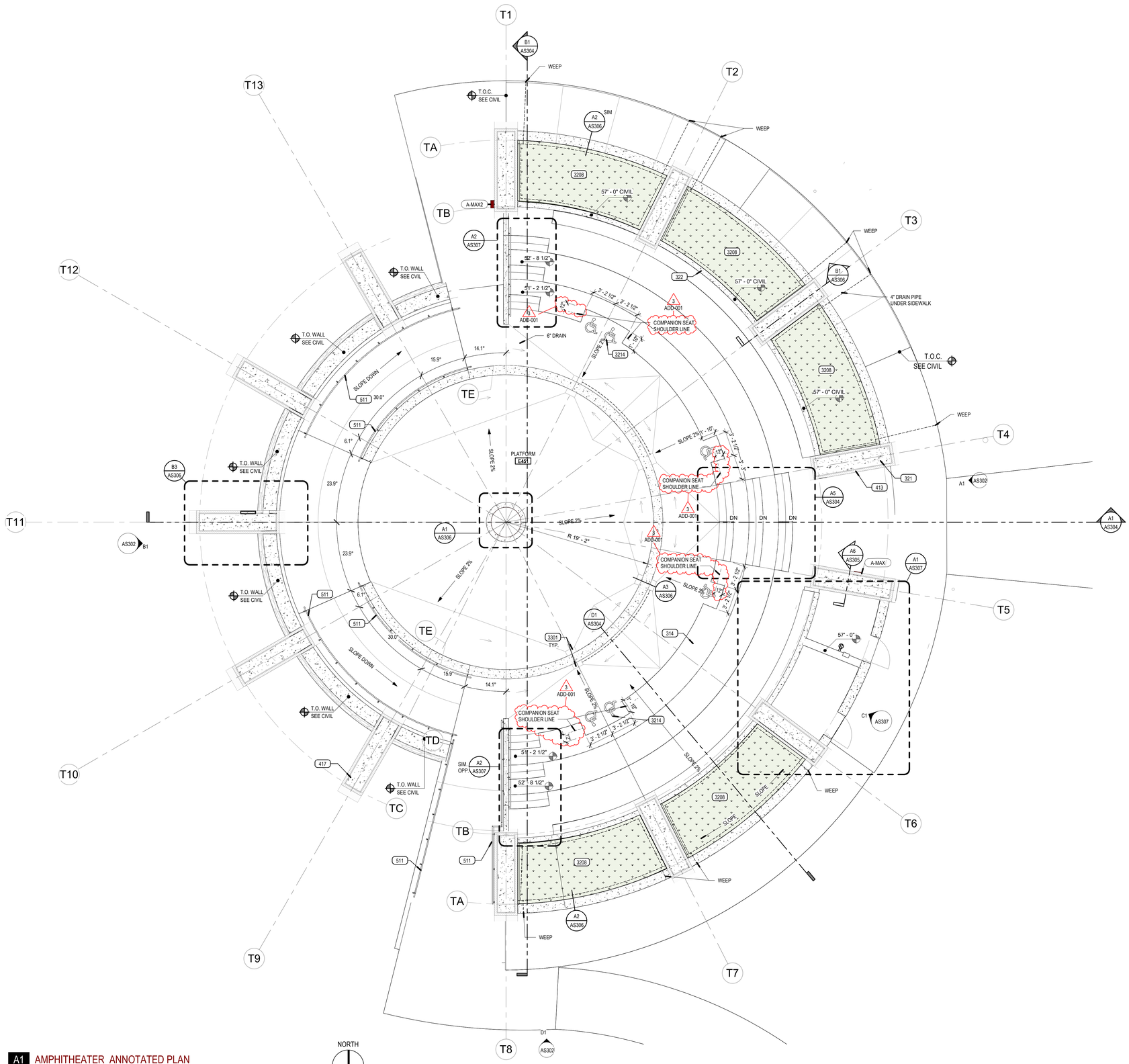

A1 AMPHITHEATER ANNOTATED PLAN

SCALE: 3/16" = 1'-0"

NORTH

GENERAL SITE PLAN NOTES

1. FOUNDATION TO BE 6" ABOVE FINISHED GRADE UNO. (FOUNDATION ELEVATIONS AND SITE DRAINAGE SHALL COMPLY WITH IBC 1808.74.)
2. ALL CONNECTIONS FROM CITY STREETS TO THE BUILDING ARE TO BE PROVIDED UNDER THIS CONTRACT. CONTRACTOR TO VERIFY CITY STANDARDS FOR ROAD, CURB, UTILITY AND SIGNAGE REQUIREMENTS.
3. ALL EXTERIOR SIDEWALKS, STAIRS AND LANDINGS TO HAVE POSITIVE DRAINAGE BUT NO MORE THAN A MAXIMUM OF 1/4" SLOPE PER FOOT TO ALLOW POSITIVE DRAINAGE. ALL STAIRS AND RAMPS TO HAVE A LANDING OF 48 INCHES LONG AT THE TOP AND BOTTOM WITH A MAXIMUM SLOPE OF 1/4" PER FOOT.
4. LIGHT POLE BASE IN ALL LANDSCAPE LOCATIONS TO BE 6" ABOVE FINISHED GRADE, BE LOCATED AT LEAST 36" FROM FACE OF POLE BASE TO BACK OF CURB AND HAVE A CONCRETE MOW STRIP. VERIFY LOCATION ON SITE WITH ARCHITECT PRIOR TO ANY INSTALLATION.
5. LIGHT POLE BASE IN ALL PAVED LOCATIONS TO BE 36" ABOVE FINISHED GRADE. VERIFY LOCATION ON SITE WITH ARCHITECT PRIOR TO ANY INSTALLATION.

SITE MATERIAL LEGEND

NOTE: CONCRETE PAVING, SEE LANDSCAPE DRAWINGS, AND CIVIL DRAWINGS.

- CONCRETE PAVING, SEE LANDSCAPE DRAWINGS, AND CIVIL DRAWINGS
- NEW ASPHALT PARKING LOTS OR DRIVEWAYS, SEE CIVIL DRAWINGS.
- BUILDING
- FUTURE PHASE
- FUTURE BUILDING
- EXISTING BUILDING
- LANDSCAPE AREA - SEE LANDSCAPE PLANS
- I.S. IN SCOPE
- N.I.S. NOT IN SCOPE
- ACCESSIBLE ROUTE
- PROPERTY LINE
- LIMIT OF DISTURBANCE LINE
- PHASING LINE
- TEMPORARY PHASING LINE
- 3 RAIL WOOD FENCE REF DETAIL **A1/AS204**

KEYED NOTES

314	CONCRETE SEATING BENCH
321	BATTERED CONCRETE PIER (COORD W/ STRUCTURAL)
322	REINFORCED CONCRETE RETAINING WALL
413	STONE VENEER
417	BOULDER STONE WALL
511	STEEL PIPE HANDRAIL, GALV AND PAINTED SEE DETAILS
3208	LANDSCAPE AREA
3214	UNIVERSAL SYMBOL OF ACCESSIBILITY PAINTED ON PARKING SURFACE
3301	CATCH BASIN

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NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

AMPHITHEATER ANNOTATED PLAN

AS300.0

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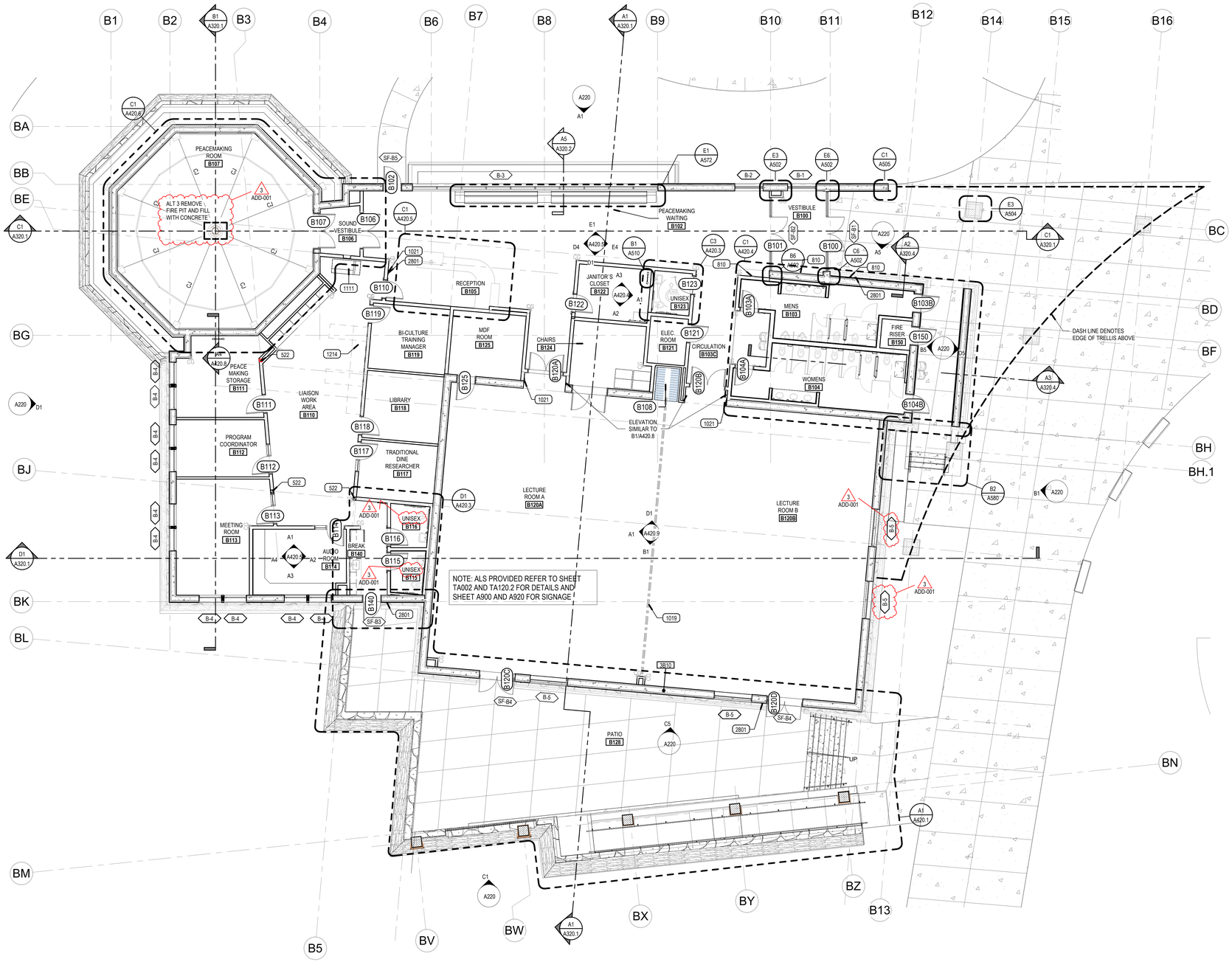

A1 BUILDING B - ANNOTATED PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES

1. WHERE FLOOR DRAINS ARE INSTALLED THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT TO EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
2. WHERE CONCRETE PADS ARE CALLED TO BE CONSTRUCTED UNDER EQUIPMENT THE SLAB IS TO BE 8" THICK, U.N.O., AND IS TO HAVE #4 BARS AT 18" O.C. EACH WAY. COORDINATE DIMENSIONS OF PAD WITH ACTUAL EQUIPMENT SPEC
3. SEE SHEET **A503** FOR TYPICAL FLOORING TRANSITION DETAILS.
4. SEE DETAILS ON SHEET **C2/A502** FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION DETAILS.
5. WHERE SHOWN, ALL FURNITURE SHOWN DASHED IS FOR REFERENCE ONLY. SEE PLANS AND SPECIFICATIONS FOR ANY BASE CONTRACT FURNITURE TO BE PROVIDED UNDER THIS CONTRACT.
6. CONTRACTORS TO PROVIDE GROMMETS AT ALL LOCATIONS WITH DATA AND POWER BELOW. CONFIRM WITH OWNER.
7. MAXIMUM OCCUPANCY SIGNS, REFER TO SIGNAGE PLANS.

ANNOTATED SYMBOLS

XXXX — WINDOW, STOREFRONT, OR CURTAINWALL TYPE MARKER — WINDOW TAG / REFERENCE SERIES **A600** SHEETS

XXXX — DOOR TYPE MARKER — DOOR TAG / REFERENCE SERIES **A600** SHEETS

CG — CORNER TYPES MARKER — CORNER TYPE

ROOM NUMBERING GUIDE

0800 — **BUILDING NAME** B= BUILDING B; **ROOM DESIGNATION**; ROOM NUMBER SYMBOL

KEYED NOTES

522	STEEL COLUMN
810	ADA PUSH BUTTON, SEE HARDWARE SCHEDULE
1019	FOLDING PANEL PARTITION
1021	RECESSED FIRE EXTINGUISHER CABINET W/ F.E.
1111	COPIER, NIC
1214	FURNITURE BY OWNER
2801	SECURITY ACCESS DETECTION

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1	10/20/2026	CLARIFICATIONS
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3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ANNOTATED PLAN - BUILDING B

A120.1

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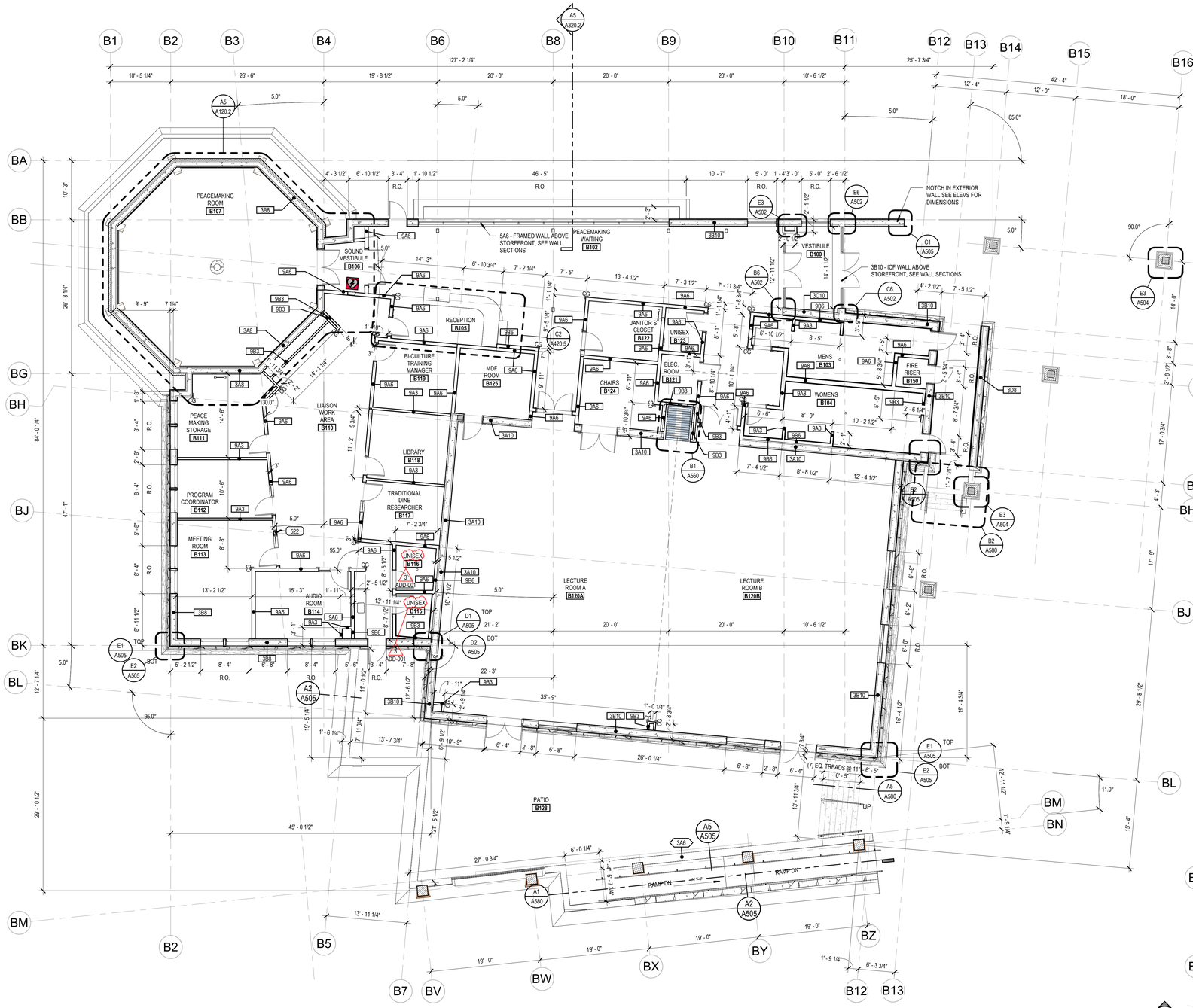
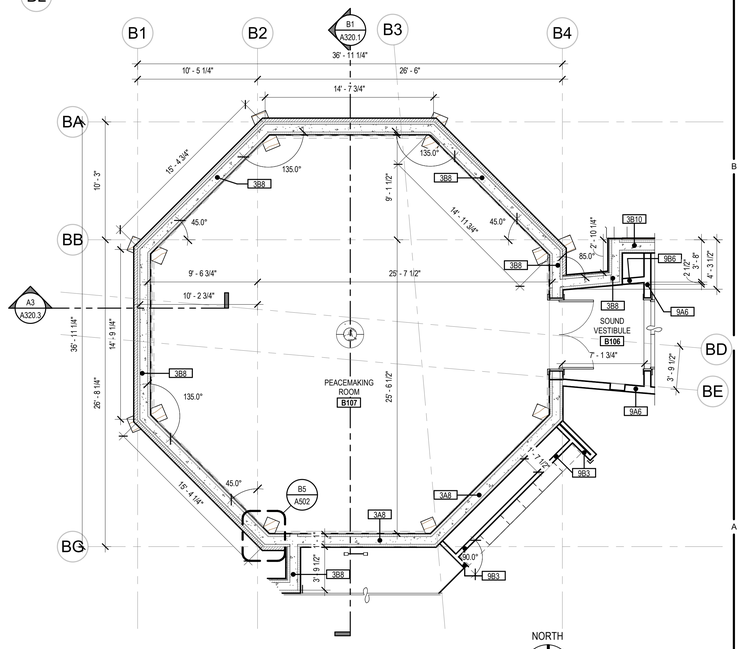


A4 BUILDING B - DIMENSION PLAN

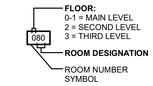
SCALE: 1/8" = 1'-0"



A5 PEACEMAKING ROOM - DIMENSION PLAN

A4/ A120.2 SCALE: 3/16" = 1'-0"

ROOM NUMBERING GUIDE



DIMENSION NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUD WALL OR FACE OF FOAM, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.
2. UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.
3. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.
4. SMOKE AND FIRE RATED WALLS SHALL PERMANENTLY BE IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL: BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; INCLUDE LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8-INCH STROKE IN A CONTRASTING COLOR INCORPORATING THE WORDING, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS".
5. SEE **B3/A502** FOR TYPICAL PLACEMENT OF ELECTRICAL DEVICES FOR ACOUSTICAL ISOLATION.

KEY FOR PARTITION TYPES

DENOTES TYPE OF CONSTRUCTION (SPEC. DIVISION)

WALL

3X 0 SERIES	CONCRETE
4X 0 SERIES	MASONRY
5X 0 SERIES	COLD FORMED METAL STUDS, 16 GA MIN.
9X 0 SERIES	METAL STUDS

NOMINAL SIZES: V = VARIABLE/MATCHEXISTING

1 = 1 5/8" STUDS
2 = 2 1/2" STUDS
3 = 3 5/8" STUDS
4 = 4" STUDS / 4" (NOM.) C.M.U.
6 = 6" STUDS / 6" (NOM.) C.M.U.
8 = 8" STUDS / 8" (NOM.) C.M.U.
10 = 10" (NOM.) C.M.U. OR CONC.
12 = 12" (NOM.) C.M.U. OR CONC.

EXAMPLE: WALL TYPE 9A3 IS A 3 5/8" METAL STUD WITH 5/8" GYPSUM BOARD ON BOTH SIDES.

NOTE: SEE GENERAL NOTES BELOW FOR ADDITIONAL ELEMENTS IN THE INDIVIDUAL WALL TYPES AND SPECIFIC DETAILS, INCLUDING UL RATINGS.

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VCBO NUMBER: 25240
DATE: 08-28-2025

REGISTERED ARCHITECT
CERTIFICATE NO.
84574
PHILIP
HADERLIE
01-12-26
ARIZONA U.S.A.

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

DIMENSION AND WALL TYPES - BUILDING B

A120.2

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KEY NAME	DESCRIPTION	MANUFACTURER	NAME	COLOR/FINISH	SIZE/COMMENTS
FLOOR					
C3	CARPET, TILE 24" X 24"	PATCRAFT	SPEAK IN COLOR	GUILDED GOLD	MONOLITHIC INSTALL
C5	CARPET, TILE 24" X 24"	PATCRAFT	COLOR YOUR WORLD	COLOR CRAYONS	
C7	CARPET, WALK OFF	MANNINGTON	RECOURSE II	8413 TRAVERSE TAN	
FT3	FLOOR TILE - MOSAIC	DALTILE	KEYSTONES	BUFFSTONE RANGE D147 IN MATTE	1"X1" TILE
FT4	FLOOR TILE - MOSAIC	DALTILE	KEYSTONES	BLACK/EBONY - D311	1"X1" TILE
FT5	FLOOR TILE - MOSAIC	DALTILE	KEYSTONES	BLACK/EBONY - D311	2"X2" TILE
FT6	FLOOR TILE - MOSAIC	DALTILE	KEYSTONES	BUFFSTONE RANGE D147 IN MATTE	2"X2" TILE
SC1	STAINED CONCRETE FLOORING	RETROPLATE	CLASS A AGGREGATE	RAW SIENNA - 94712A IN LEVEL 2 SATIN	TO BE TESTED IN SMALL AREA
SC4	SEALED CONCRETE FLOORING	-			
VCT1	STATIC DISSIPATIVE TILE	VPI	STATMATE	153 BONE	
BASE					
B1	RUBBER BASE	JOHNSONITE	DURA-COVE THERMOPLASTIC RUBBER 1/8" (Type TP)	TA7 RUSTY NAIL	4"
B2	TILE BASE	CROSSVILLE	ARGENT 2.0	ARG01 - WINTER GARDEN	4" x 24" BULLNOSE TILE
B4	WOOD BASE	CUSTOM		SEE DETAIL A1/A574	STAIN TO MATCH ARCH SAMPLE
B5	TILE COVE BASE	MOSA. TILE	GLOBAL COLLECTION	752000P815 PLAIN IVORY BLACK	3" X 6", SEE DETAIL A5/A503
B6	TILE COVE BASE	MOSA. TILE	GLOBAL COLLECTION	752100P815 PLAIN WHITE UNBLEACHED	3" X 6", SEE DETAIL A5/A503
B7	PAINTED WOOD BASE	CUSTOM		SEE DETAIL A4/A574	PAINT TO MATCH WALL ABOVE
PAINT					
P1	PAINT, GENERAL WALL	SHERWIN WILLIAMS		SW 6154 - NACRE	EGGSHELL
P2	PAINT, GENERAL WALL	SHERWIN WILLIAMS		SW 2833 - ROYCROFT VELLUM	EGGSHELL
P3	PAINT, GENERAL WALL	SHERWIN WILLIAMS		SW 6127 - IVORIE	EGGSHELL
P6	PAINT, ACCENT WALL	SHERWIN WILLIAMS		SW 0030 - COLONIAL YELLOW	EGGSHELL
P7	PAINT, DOOR TRIM	SHERWIN WILLIAMS		SW 9100 - UMBER RUST	EGGSHELL
P8	PAINT, HM DOORS	SHERWIN WILLIAMS		SW 9100 - UMBER RUST	EGGSHELL
P9	PAINT - EXPOSED EQUIPMENT	TBD			
P10	PAINT - EXTERIOR RAILING	SHERWIN WILLIAMS		SW 9100 - UMBER RUST	
P11	PAINT	TBD			EGGSHELL, ACT IN LECTURE RM
SURFACE					
PL1	NOT USED				
PL2	PLASTIC LAMINATE	FORMICA	LAMINATE	463-58 SAIL WHITE	MATTE FINISH

KEY NAME	DESCRIPTION	MANUFACTURER	NAME	COLOR/FINISH	SIZE/COMMENTS
PL3	PLASTIC LAMINATE	FORMICA	LAMINATE	8849-58 NATURAL TEAK	TO MATCH WD1, PROVIDE MATCHING PVC EDGEBANDING
PL5	PLASTIC LAMINATE	WILSONART	LAMINATE	4888-38 RUSTIC SLATE	
QZ1	QUARTZ	RADIANZ	CLASSIC	KC213 - KAUAI CREAM	COUNTERTOPS & WINDOW SILLS
QZ2	QUARTZ	CORIAN	CORIAN QUARTZ	STORM GREY	COUNTERTOPS
SS1	SOLID SURFACE - DOOR PLINTH	WILSONART	MARZIPAN MIRAGE	9130MG	SEE DOOR SCHEDULE
WALL					
WT1	WALL TILE	MOSA. TILE	GLOBAL COLLECTION	16860 - PLAIN WHITE UNBLEACHED	6" X 6"
WT2	WALL TILE	MOSA. TILE	GLOBAL COLLECTION	15200 - PLAIN IVORY BLACK	6" X 6"
WT4	WALL TILE	REALSTONE	LEDGESTONE PANEL	TERRACOTTA LEDGESTONE	6" X 24" TILES - JOINTLESS DRY-STACKED INSTALLATION
WT6	WALL TILE	DALTILE	COLOR WHEEL	0100 WHITE GLOSSY	4"X4", PROVIDE BULLNOSE TRIM AT FINISHED EDGE - SEE ELEVATIONS
MISC					
AC1	ACRYLIC BACKPLATE	3FORM			
AP1	ACOUSTIC PANEL - FABRIC WRAPPED	DUVALTEX	CROSSTOWN 2526	RAY 030	2" WRAPPED ACOUSTIC PANELS WITH TO BE LINED WITH WHITE FABRIC
AP2	ACOUSTIC PANEL FABRIC	CARNEGIE	XOREL	STRIE 823	TO BE APPLIED TO MODERNFOLD DOORS PER MANUFACTURER REC
AP3	ACOUSTICAL PLASTER	FELLERT		SHERWIN WILLIAMS 6524 COMMODORE	ACOUSTIC PLASTER TO MATCH SW 6524 COMMODORE
CG1	CORNER GUARD	INPRO		0274 POPCORN	
CG2	CORNER GUARD - WOOD	CUSTOM	SEE DETAIL A2/A574	WD1	STAIN TO MATCH ARCH SAMPLE, 4'H
G1	GROUT	MAPEI		5002 - PEWTER	TO BE USED ON ALL TILE APPLICATIONS
TP1	TOILET PARTITION	SCRANTON	HOPE	GREY ORANGE PEEL	
UP3	UPHOLSTERY FABRIC	KNOLL TEXTILES	PRAIRIE	015 CAIBOU	
UP4	UPHOLSTERY FABRIC	POLLACK	NASHVILLE	SOYBEAN	SEE ELEVATIONS FOR UPOLSTERY PATTERN INSTRUCTIONS
WD1	HARDWOOD	WALNUT WITH STAIN		DARK	SEE SPEC, STAIN TO MATCH ARCHITECT'S SAMPLE
WD2	WOOD PLINTH	WALNUT WITH STAIN		DARK	SEE SPEC, STAIN TO MATCH ARCHITECT'S SAMPLE
WV1	WOOD VENEER	WALNUT WITH STAIN		DARK	SEE SPEC, STAIN TO MATCH ARCHITET'S SAMPLE

3 ADD-001

3 ADD-001

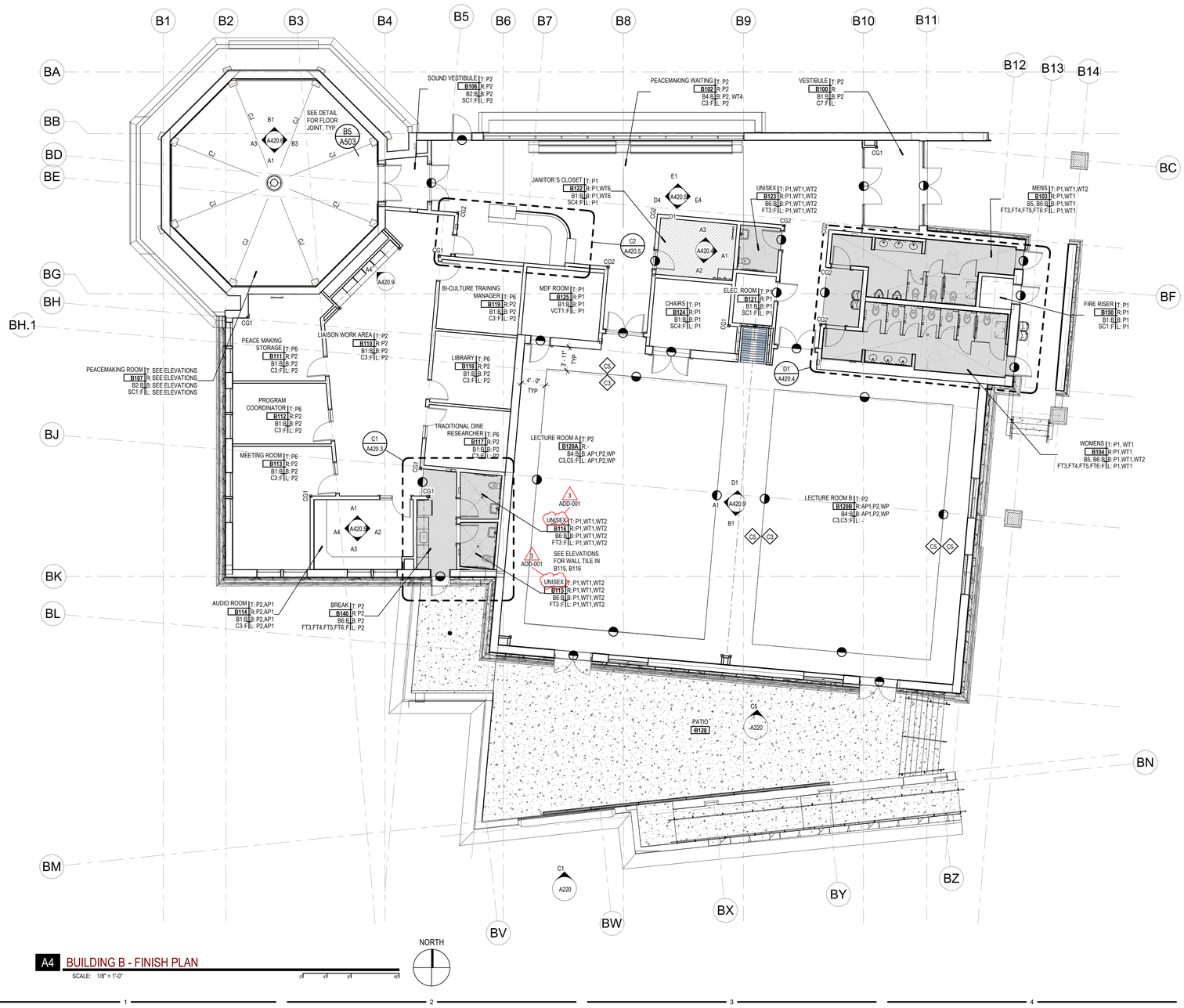
GENERAL FINISH NOTES

1. PROVIDE EPOXY PAINT AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO RESTROOMS, SHOWERS, LOCKER ROOMS AND JANITOR CLOSETS.
2. ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O. SEE DETAIL A4/A503 FOR TYPICAL FLOORING TRANSITIONS.
3. ALL GROUT JOINTS TO BE NO LARGER THAN 1/8". FRAMER AND TILE INSTALLER TO COORDINATE CONTROL JOINTS DEPICTED IN THE INTERIOR ELEVATIONS TO ENSURE THAT JOINT IN FRAMING ALIGNS WITH JOINT IN TILE. WHERE TILE JOINT OCCURS, DO NOT GROUT. INSTEAD PROVIDE SILICONE CAULK, AND DUST SURFACE WITH DRY GROUT POWDER SO CONTROL JOINT SURFACE MATCHES APPEARANCE OF ADJACENT TILE JOINTS. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION, TYP.
4. SEE ELEVATIONS FOR ALL WALL TILE PATTERNS. PATTERNS HAVE BEEN SPECIFICALLY LAID OUT TO AVOID SMALL RIPPERS. COORDINATE WITH ARCHITECT ANY LOCATIONS THAT MIGHT REQUIRE MODIFICATION, TYP.
5. ALL COUNTERTOPS, BACKSPLASHES, AND EDGE BANDING TO HAVE COORDINATING FINISHES. COORDINATE WITH ARCHITECT FOR SELECTION QUESTIONS PRIOR TO PROCUREMENT OF MATERIALS, TYP.
6. PROVIDE A SMOOTH TRANSITION AT ALL FLOOR MATERIALS CONTRACTOR TO INSTALL ALL FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS.
7. PROVIDE TILE WT6 CERAMIC WALL TILE' AT ALL JANITOR SINKS. PROVIDE TILE BULLNOSE ALL AROUND TO FINISH OFF ALL EXPOSED EDGES.
8. ALL WALLS RECEIVING TILE WAINSCOT TO RECEIVE PAINT P1 ABOVE, U.N.O. SEE FINISH PLANS FOR ACCENT WALL LOCATIONS.
9. PROVIDE SCHLUTER QUADEC AT ALL LOCATIONS WHERE TILE WAINSCOT WRAPS GYP. BD. CORNERS. CAP ALL TILE WAINSCOT & NON BULL-NOSED BASE WITH SCHLUTER JOLLY.
10. ALL METAL EXTERIOR HANDRAIL TO BE PAINTED P10.
11. ALL EXPOSED GYPSUM BOARD CEILINGS TO BE PAINTED COLOR P1 U.N.O. REFER TO REFLECTED CEILING PLANS.
12. ALL EXTERIOR DOOR FRAMES TO BE PAINTED TO MATCH BRICK ON EXTERIOR SIDE ONLY. PAINTER TO COORDINATE WITH ARCHITECT TO SELECT MATCHING COLOR BASED ON INSTALLED MASONRY. COLOR HAS NOT BEEN PRE-SELECTED AS MASONRY COLOR VARIES AND PAINT SELECTION NEEDS TO MATCH ACTUAL MASONRY INSTALLED ON SITE, TYP.
13. SEE FINISH LEGEND ON SHEET **A120.3** FOR DETAILED FINISH INFORMATION INCLUDING MANUFACTURER.
14. ALL EXPOSED STRUCTURAL STEEL, PIPING, DUCTWORK, ETC. THAT IS EXPOSED TO VIEW SHALL BE FULLY PAINTED. PAINT P9, REFER TO FINISH SCHEDULE FOR COLOR SELECTION.
15. PROVIDE WINDOW QZ1 SILLS ON ALL WINDOWS EXCEPT FOR WINDOWS IN LECTURE ROOMS **B120A & B120B**. SEE WINDOW SILL DETAILS.
16. PAINT WOOD DOOR FRAMES P7, PAINT RESTROOM HM DOORS & FRAMES THAT GO TO BUILDING EXTERIOR TO MATCH ADJACENT WALL.

FINISH PLAN SYMBOLS

BASE FLOOR — NAME | # | B7 | C7 — T: WT WALL; R: WT WALL; B: WT WALL; L: WT WALL

- SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION
- CHANGE AT FLOOR MATERIAL
- CG — CORNER TYPES MARKER — CORNER TYPE



A4 BUILDING B - FINISH PLAN

SCALE: 1/8" = 1'-0"

NORTH

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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED ARCHITECT — CERTIFICATE NO. 04574 — PHILIP HADERLIE — 6-12-26 — ARIZONA, U.S.A.

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

FINISH PLAN - BUILDING B

A120.3

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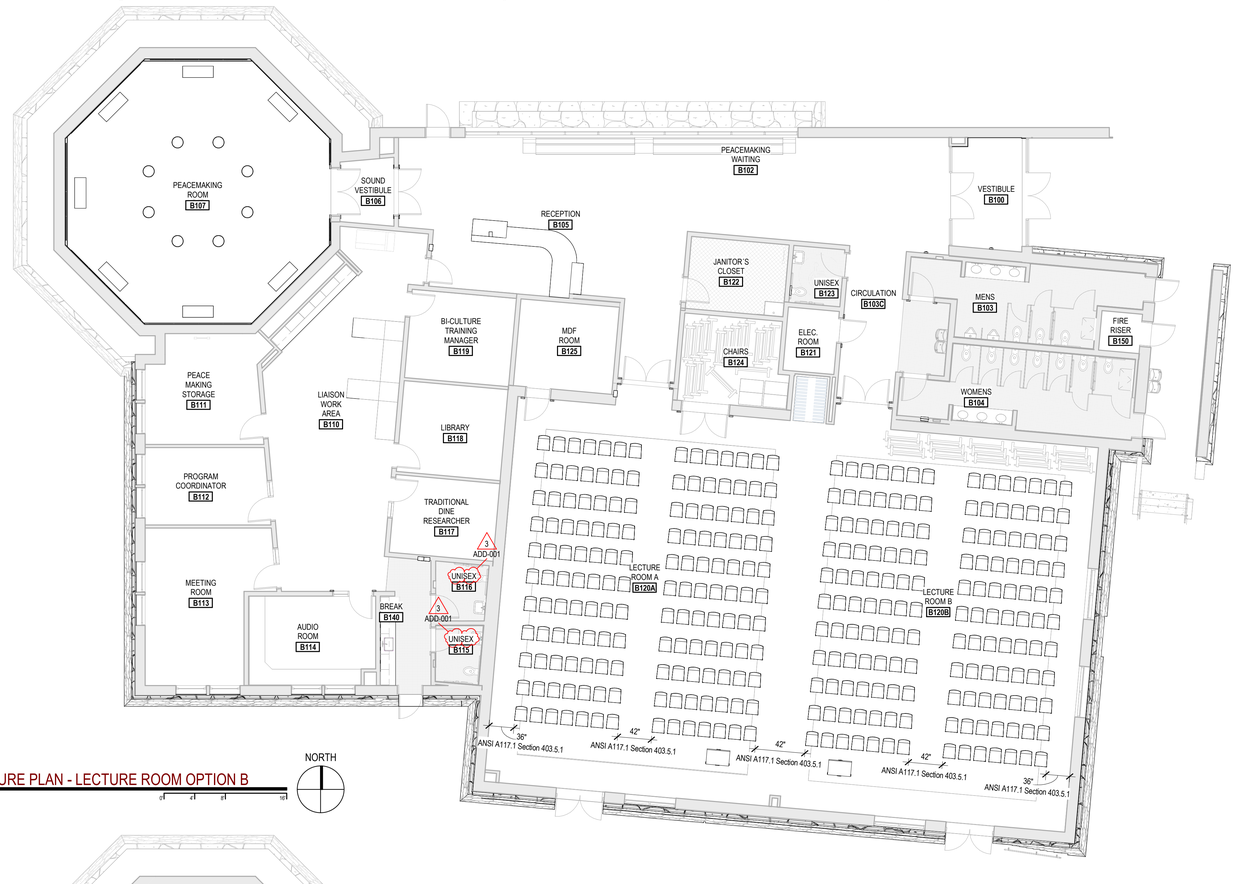

D1 BUILDING B - FURNITURE PLAN - LECTURE ROOM OPTION B

SCALE: 1/8" = 1'-0"

NORTH



A1 BUILDING B - FURNITURE PLAN - LECTURE ROOM OPTION A

SCALE: 1/8" = 1'-0"

NORTH

FOR REFERENCE ONLY. FINAL LAYOUT AND SELECTIONS OF FURNITURE BY OWNER.

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NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

FURNITURE PLAN - BUILDING B

A120.5

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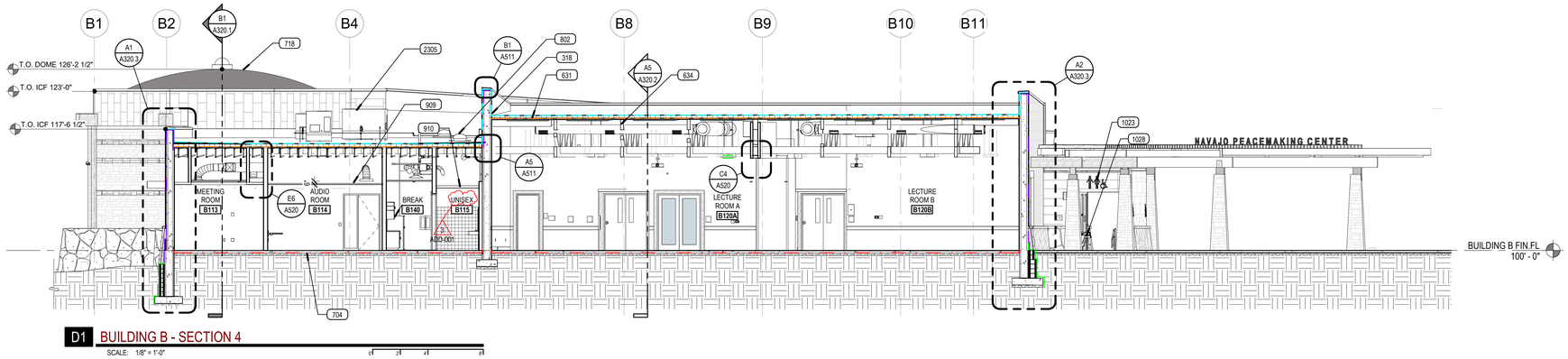
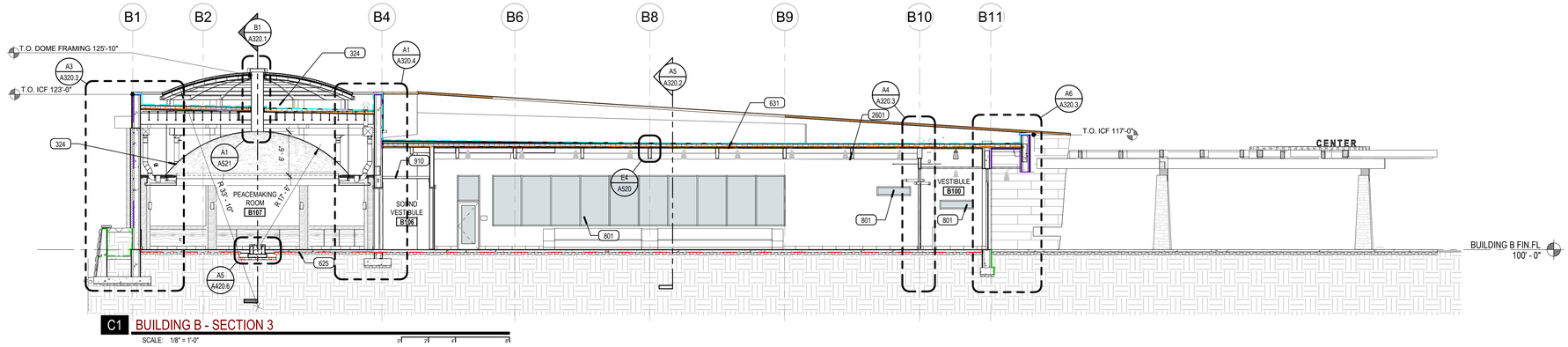


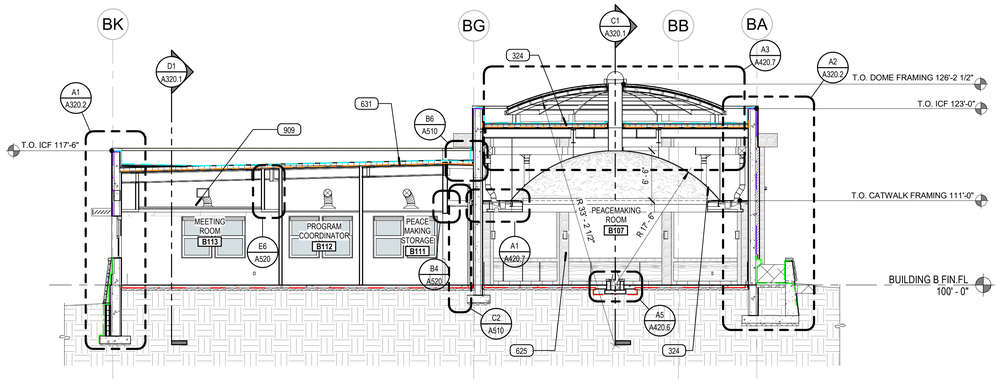
D1 BUILDING B - SECTION 4

SCALE: 1/8" = 1'-0"



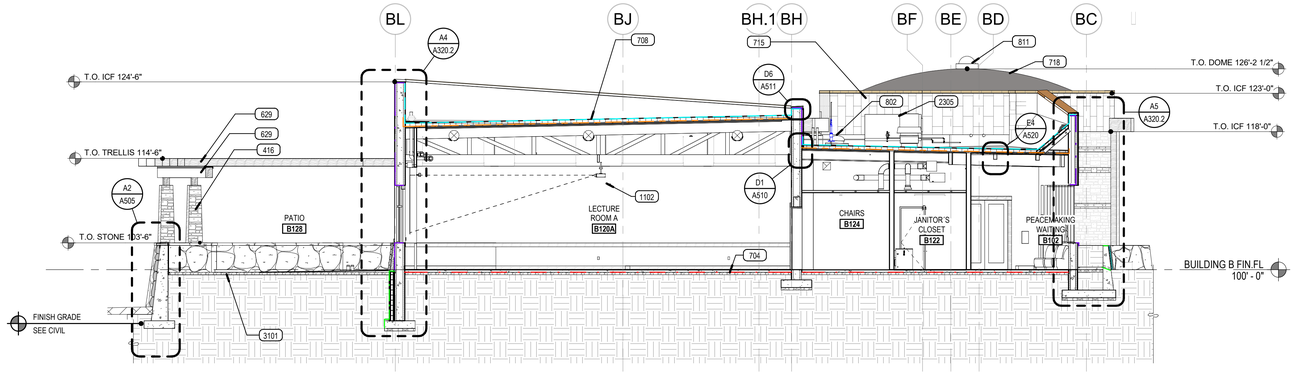
C1 BUILDING B - SECTION 3

SCALE: 1/8" = 1'-0"



B1 BUILDING B - SECTION 2

SCALE: 1/8" = 1'-0"



A1 BUILDING B - SECTION 1

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. THE VARIOUS LINE TYPES BELOW INDICATE COMPONENTS OF THE BUILDING ENVELOPE SYSTEM THAT SEPARATES THE INTERIOR CONDITIONED AND EXTERIOR NON-CONDITIONED SPACES.
2. REFER TO SHEETS **A506** AND **A507** FOR METAL PANEL DETAILS, INCLUDING TYPICAL ASSEMBLIES, SILL, JAMB, AND HEAD DETAILS, AND PANEL SIZES.

MEMBRANE & BARRIERS LEGEND

- FLUID APPLIED WRB (WATER RESISTANT BARRIER)
- ROOF AIR BARRIER
- SINGLE PLY MEMBRANE
- UNDERSLAB VAPOR BARRIER
- WATERPROOFING
- CRACK ISOLATION MEMBRANE

KEYED NOTES

318	10" ICF WALL SYSTEM, R-24
324	GFRC DOME
416	STONE PILLAR
625	GLUELAM COLUMN STAINED AND SEALED
629	GLUELAM BEAM STAINED AND SEALED WITH PUMA, SEE STRUCTURAL FOR SIZE
631	WOOD JOIST
634	WOOD TRUSS
704	VAPOR BARRIER
708	R-30 ROOF RIGID INSULATION BOARD SYSTEM
715	PRE-FINISHED EXTERIOR METAL PANEL
718	RIVER ROCK BALLAST OVER SINGLE PLY ROOFING SYSTEM
801	WINDOW SYSTEM, SEE WINDOW TYPES
802	SKYLIGHT
811	TUBULAR SKYLIGHT WITH INTEGRAL CURB
909	SUSPENDED ACOUSTICAL TILE CEILING
910	SUSPENDED GYP. BD. CEILING SYSTEM
1023	SIGNAGE, SEE SCHEDULE
1028	DRINKING FOUNTAIN
1102	CEILING MOUNTED PROJECTOR AND MOUNT COORDINATE EXACT LOCATION W/ ARCHITECT PRIOR TO INSTALLATION. PROVIDE 10'-0" MIN. OF EXTRA WIRE LENGTH, TYP. TO ACCOMMODATE ADJUSTMENT TO LOCATION PROVIDED
2305	ROOFTOP MOUNTED MECHANICAL EQUIPMENT, PROVIDE CURB AND FLASHING AS PER D5/A510
2601	EXIT SIGN
3101	FREE DRAINING GRAVEL BASE

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NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

BUILDING SECTIONS - BUILDING B

A320.1

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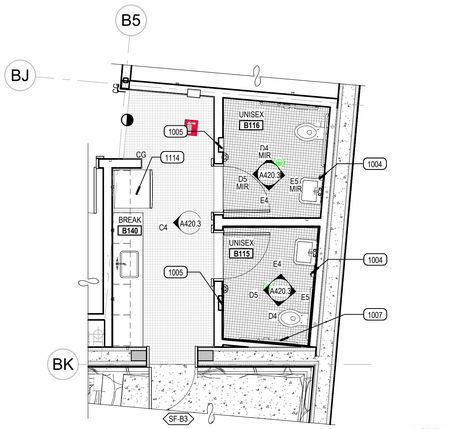
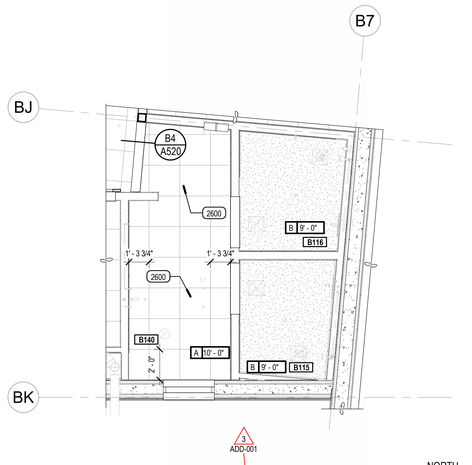


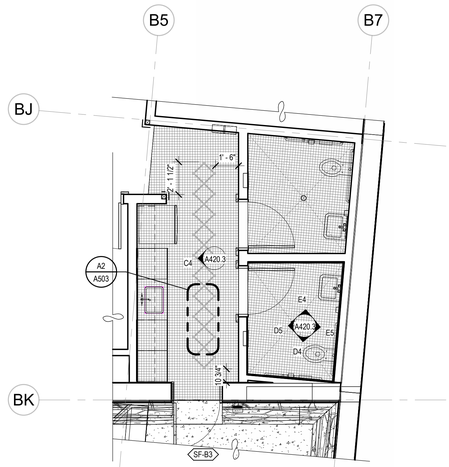
D1 BUILDING B RESTROOMS - ENLARGED

A1/ A120.1 SCALE: 1/4" = 1'-0"



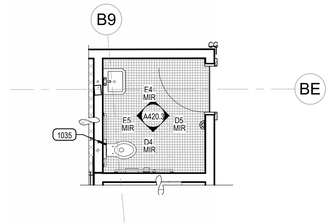
D2 BUILDING B - RESTROOMS RCP PLAN

A1/ A120.4 SCALE: 1/4" = 1'-0"



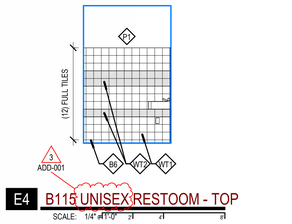
C1 RMS_B140, B115, & B1116 - FINISHES

A4/ A120.3 SCALE: 1/4" = 1'-0"



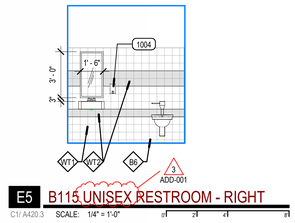
C3 BUILDING B - RESTROOM UNISEX - ENLARGED PLAN

A1/ A120.1 SCALE: 1/4" = 1'-0"



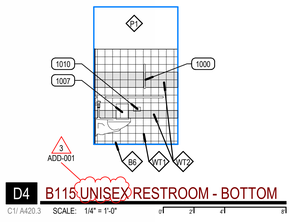
E4 B115 UNISEX RESTROOM - TOP

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



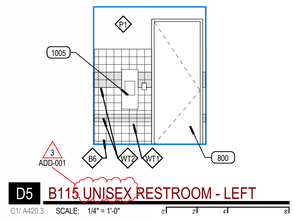
E5 B115 UNISEX RESTROOM - RIGHT

C1/ A420.3 SCALE: 1/4" = 1'-0"



D4 B115 UNISEX RESTROOM - BOTTOM

C1/ A420.3 SCALE: 1/4" = 1'-0"



D5 B115 UNISEX RESTROOM - LEFT

C1/ A420.3 SCALE: 1/4" = 1'-0"

C4 B140 BREAKROOM ELEVATION

C1/ A420.3 SCALE: 1/4" = 1'-0"

CEILING SYMBOLS

ELECTRICAL

- 2'X2' FIXTURE
- 8' PENDANT FIXTURE
- STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- OCCUPANT SENSOR
- FIRE ALARM
- SPEAKER
- SMOKE DETECTOR
- W WIRELESS INTERNET

MECHANICAL

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT

GENERAL CEILING NOTES

1. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 10' 2" A.F.F.
2. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE.
3. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED AT TYPE "E" / "F" / "G" & "H". PAINT **P9**, SEE FINISH SCHEDULE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES.
6. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD.
7. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB.
8. SEE DETAILS **E4/A530** AND **B1/A530** FOR COORDINATION OF DEVICES IN CEILING.
9. GYP BD CEILINGS PAINTED P1, U.N.O.
10. FIRE SPRINKLER HEADS IN AREAS WITH CEILINGS SHALL BE PROVIDED AS CONCEALED-TYPE HEADS. AT WHITE CEILINGS PROVIDE WHITE SPRINKLER HEADS. ACCENT CEILINGS, SUCH AS METAL SOFFITS, WOOD VENEER, OR OTHER CEILINGS, SHALL BE PROVIDED WITH COLORS TO MATCH THE CEILINGS AS SELECTED BY THE ARCHITECT FROM THE FULL RANGE OF PRE-FINISHED COLORS, INCLUDING OPTIONS FOR METALLIC OR FAUX WOOD FINISHES.

CEILING LEGEND

- A - SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING REFER TO DETAIL **C4** AND **C5/A520** FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
- A1 - DIRECT ATTACHED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING REFER TO DETAIL **D2/A520** FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING. PAINT PX, SEE FINISH SCHEDULE.
- B - SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - PAINT, REFER TO DETAIL **A4** AND **A5/A520** FOR TYPICAL SUSPENDED GYP. BD. CEILINGS
- C - EXPOSED CEILING PAINTED P1, U.N.O.
- D - EXTERIOR 2X6 T&G CEILING PLANKS, STAINED REFER TO DETAIL **A1** AND **B1/A520**
- AP3 - ACOUSTICAL PLASTER

KEYED NOTES

800	DOOR & FRAME, SEE SCHEDULE
1000	GRAB BAR
1004	WALL MOUNTED SOAP DISPENSER
1005	PAPER TOWEL DISPENSER
1007	SANITARY NAPKIN DISPOSAL
1010	TOILET PAPER DISPENSER
1035	DISPENSER, TOILET SEAT COVERS
1113	MICROWAVE, NIC
1114	REFRIGERATOR, NIC
2600	LIGHT FIXTURE

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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED ARCHITECT CERTIFICATE NO. 84574 PHILIP HADERLIE 6-12-26 ARIZONA, U.S.A.

REV	DATE	DESCRIPTION
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

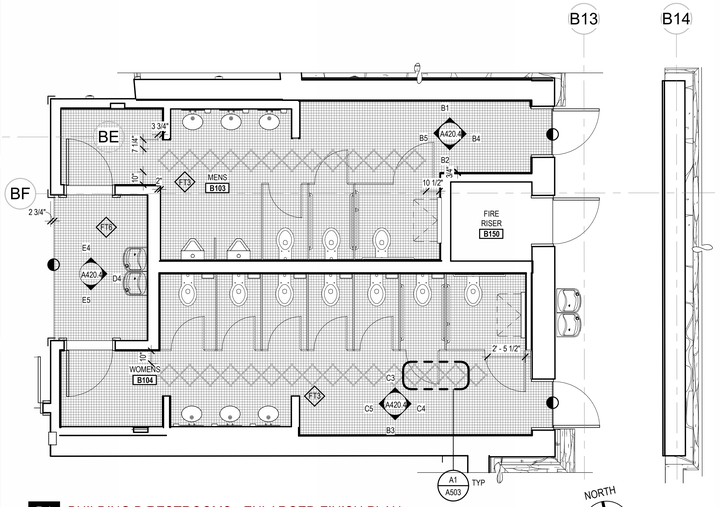
NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ENLARGED PLANS + INT. ELEVATIONS - BUILDING B

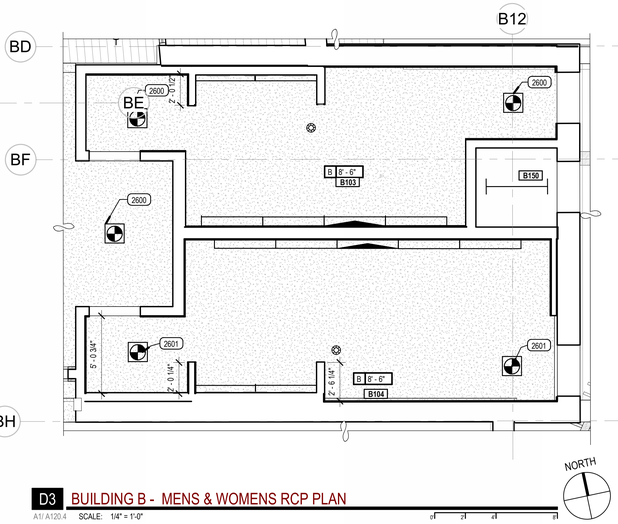
A420.3

11/11/2026 4:07:30 PM



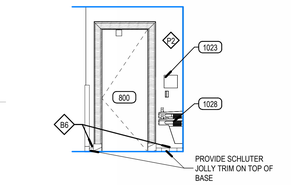
D1 BUILDING B RESTROOMS - ENLARGED FINISH PLAN

A4/ A120.3 SCALE: 1/4" = 1'-0"



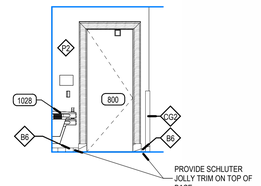
D3 BUILDING B - MENS & WOMENS RCP PLAN

A1/ A120.4 SCALE: 1/4" = 1'-0"



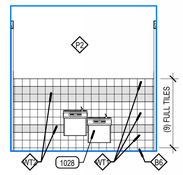
E4 DRINKING FOUNTAIN - TOP

C1/ A420.4 SCALE: 1/4" = 1'-0"



E5 DRINKING FOUNTAIN - BOTTOM

C1/ A420.4 SCALE: 1/4" = 1'-0"



D4 DRINKING FOUNTAIN - RIGHT

C1/ A420.4 SCALE: 1/4" = 1'-0"

GENERAL ELEVATION NOTES

1. CONTRACTOR TO PROVIDE BACKING REQUIRED FOR MOUNTING OF ALL RESTROOM ACCESSORIES INCLUDING ALL "BY OWNER" ACCESSORIES.
2. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
3. REFER TO FINISH SCHEDULE IN SPECIFICATIONS, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.
4. SEE ELECTRICAL DRAWINGS FOR TYPICAL MOUNTING OF SWITCHES, OUTLETS, THERMOSTATS, ETC. WHICH ARE ADJACENT TO DOORWAYS.
5. ALL WINDOWS HAVE A U-FACTOR OF 0.34 AND AN SHGC FACTOR OF .025, PER THE COMCHECK CERTIFICATION

INT. ELEVATION SYMBOLS

XXX — KEYED NOTE PLUS FINISH INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES AS INDICATED ON FINISH AND SIGNAGE PLANS,OR PROVIDE ADDITIONAL INFORMATION.

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES AS INDICATED ON FINISH AND SIGNAGE PLANS, OR PROVIDE ADDITIONAL INFORMATION.

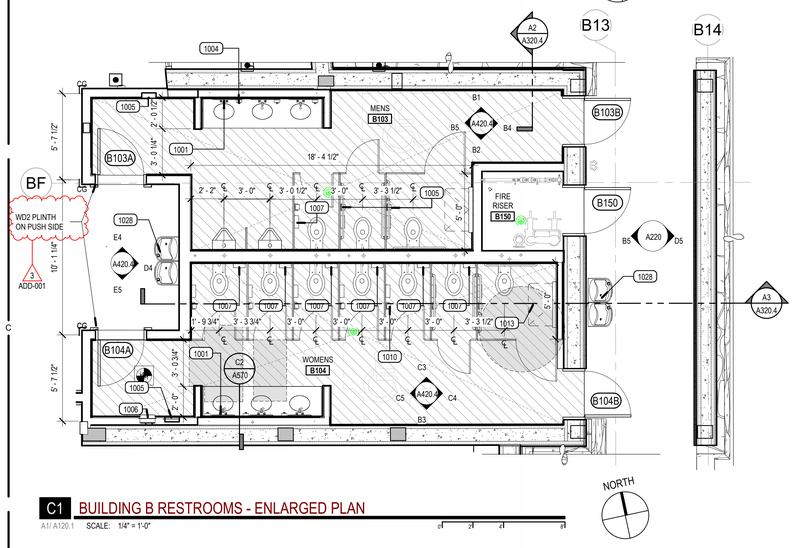
DOOR TAG

GENERAL FINISH NOTES

1. PROVIDE EPOXY PAINT AT ALL RESTROOMS, AND JANITOR CLOSETS.
2. ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O. ALL FLOOR TRANSITIONS AT FLOOR TILE (T1) LOCATIONS TO BE LOCATED AT INSIDE CORNER OF DOOR.
3. ALL GROUT JOINTS TO BE NO LARGER THAN 1/8". SEE SPEC FOR GROUT SIZES.
4. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
5. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
6. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
7. AT SOFFITS RECEIVING COLOR- PAINT ALL SIDES OF SOFFIT.
8. BACKSPLASHES, AND EDGE BANDING TO HAVE FINISH TO MATCH COUNTERTOP..
9. PROVIDE A SMOOTH TRANSITION AT ALL THINSET TILE FLOOR FINISHES - CONTRACTOR TO INSTALL ALL TILE FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS.
10. SEE FINISH SCHEDULE & GENERAL NOTES FOR H.M. DOOR AND FRAME PAINT COLORS.
11. ALL EXPOSED CEILINGS TO BE PAINTED. REFER TO REFLECTED CEILING PLANS.

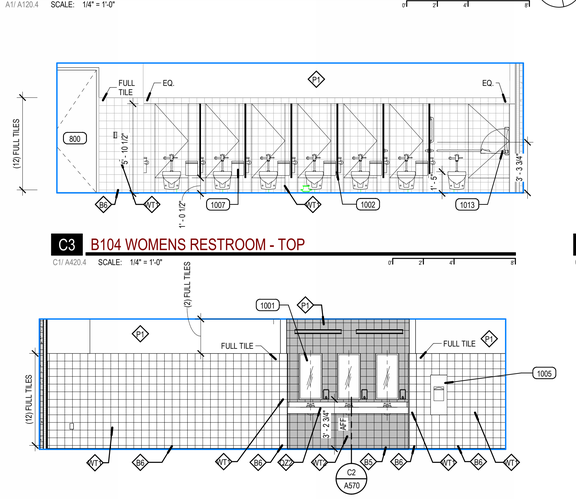
KEYED NOTES

518	STEEL LADDER
800	DOOR & FRAME, SEE SCHEDULE
1001	18"X36" MIRROR
1002	TOILET PARTITION
1003	URINAL SCREEN
1004	WALL MOUNTED SOAP DISPENSER
1005	PAPER TOWEL DISPENSER
1006	SANITARY NAPKIN DISPENSER
1007	SANITARY NAPKIN DISPOSAL
1008	MOP RACK
1010	TOILET PAPER DISPENSER
1013	WALL MOUNTED DIAPER CHANGING STATION, PROVIDE REQUIRED BACKING
1023	SIGNAGE, SEE SCHEDULE
1028	DRINKING FOUNTAIN
2201	JANITOR'S SINK
2600	LIGHT FIXTURE
2601	EXIT SIGN



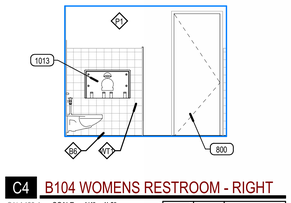
C1 BUILDING B RESTROOMS - ENLARGED PLAN

A1/ A120.1 SCALE: 1/4" = 1'-0"



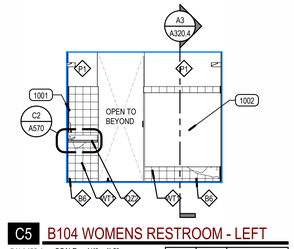
C3 B104 WOMENS RESTROOM - TOP

C1/ A420.4 SCALE: 1/4" = 1'-0"



C4 B104 WOMENS RESTROOM - RIGHT

C1/ A420.4 SCALE: 1/4" = 1'-0"

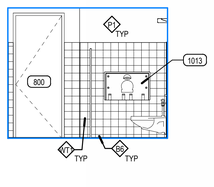


C5 B104 WOMENS RESTROOM - LEFT

C1/ A420.4 SCALE: 1/4" = 1'-0"

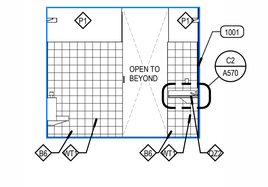
B3 B104 WOMENS RESTROOM - BOTTOM

C1/ A420.4 SCALE: 1/4" = 1'-0"



B4 B103 MENS RESTROOM - RIGHT

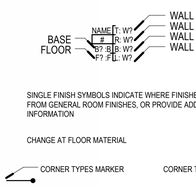
C1/ A420.4 SCALE: 1/4" = 1'-0"

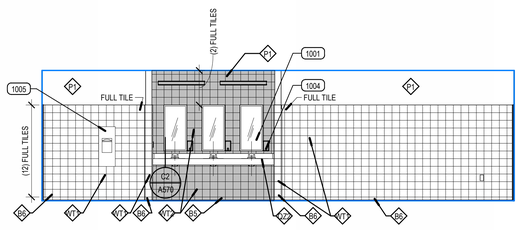


B5 B103 MENS RESTROOM - LEFT

C1/ A420.4 SCALE: 1/4" = 1'-0"

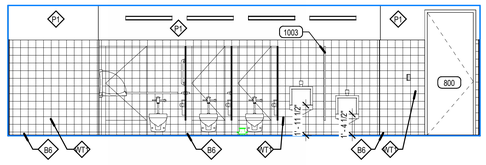
FINISH PLAN SYMBOLS





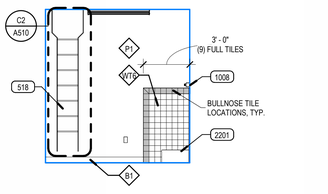
B1 B103 MENS RESTROOM - TOP

C1/ A420.4 SCALE: 1/4" = 1'-0"



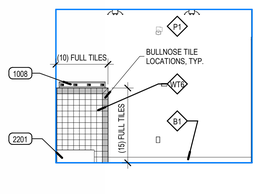
B2 B103 MENS RESTROOM - BOTTOM

C1/ A420.4 SCALE: 1/4" = 1'-0"



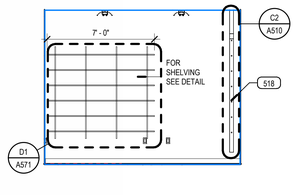
A1 B221 - JANITOR 2

A1/ A120.1 SCALE: 1/4" = 1'-0"



A2 B122 - JANITOR

A1/ A120.1 SCALE: 1/4" = 1'-0"



A3 B122 - JANITOR 2

A1/ A120.1 SCALE: 1/4" = 1'-0"

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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED ARCHITECT
CERTIFICATE NO.
84074
PHILIP HADERLIE
STATE OF ARIZONA U.S.A.

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ENLARGED PLANS + INT. ELEVATIONS - BUILDING B

A420.4

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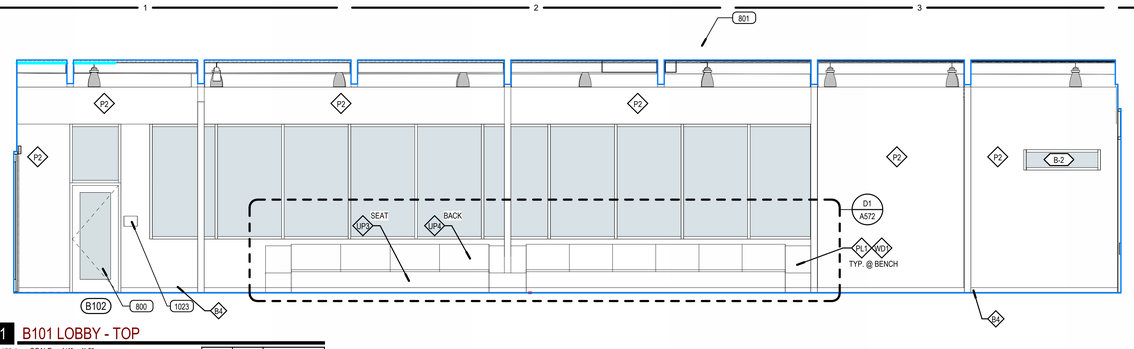
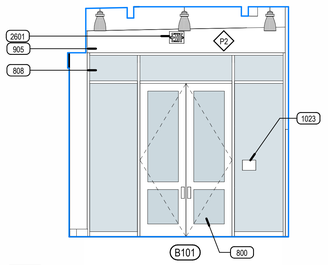


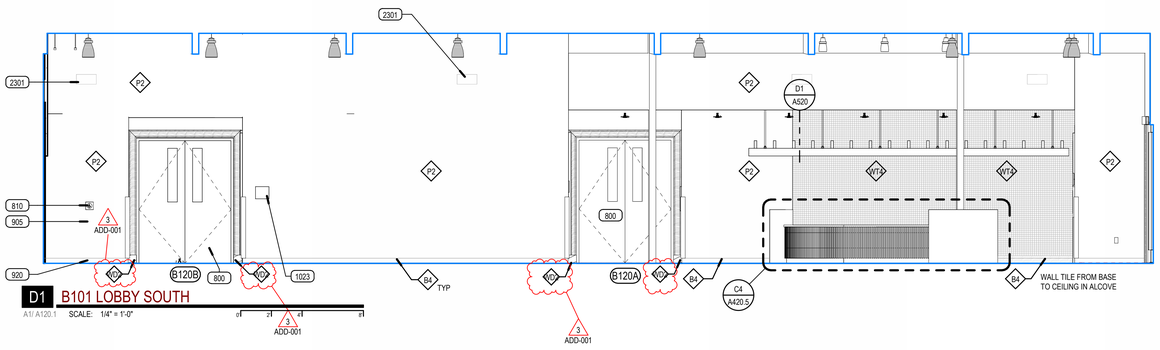
E1 B101 LOBBY - TOP

A1/ A120.1 SCALE: 1/4" = 1'-0"



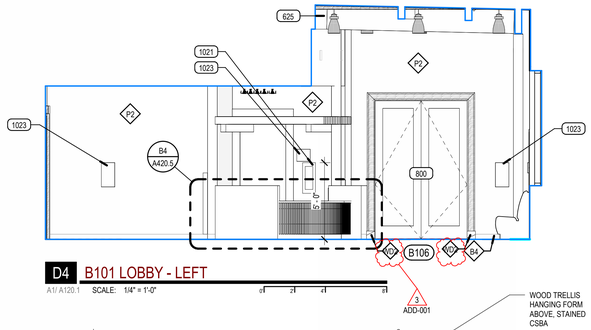
E4 B101 LOBBY - RIGHT

A1/ A120.1 SCALE: 1/4" = 1'-0"



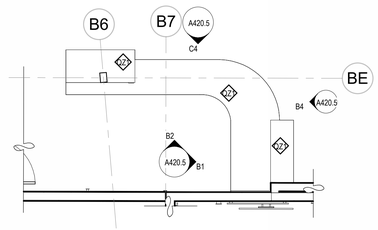
D1 B101 LOBBY SOUTH

A1/ A120.1 SCALE: 1/4" = 1'-0"



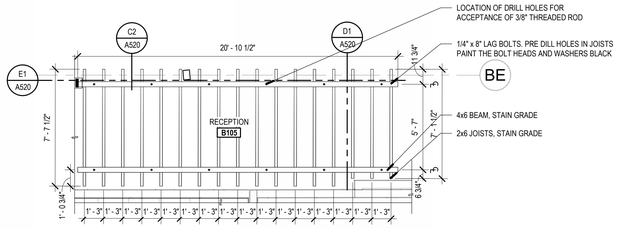
D4 B101 LOBBY - LEFT

A1/ A120.1 SCALE: 1/4" = 1'-0"



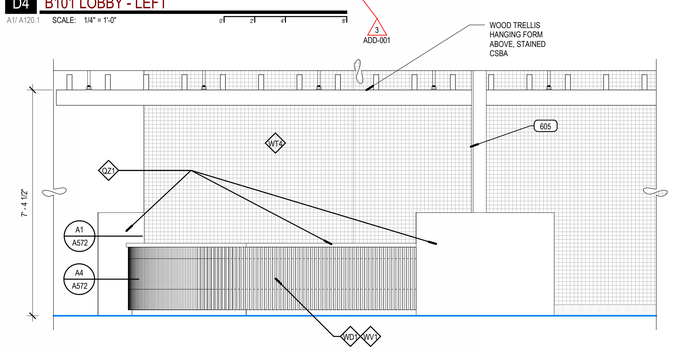
C1 BUILDING B RECEPTION - ENLARGED PLAN

A1/ A120.1 SCALE: 1/4" = 1'-0"



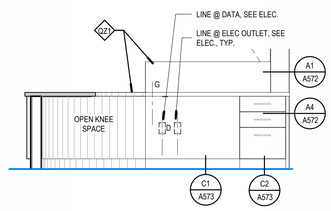
C2 BUILDING B RECEPTION - TRELLIS PLAN

A4/ A120.2 SCALE: 1/4" = 1'-0"



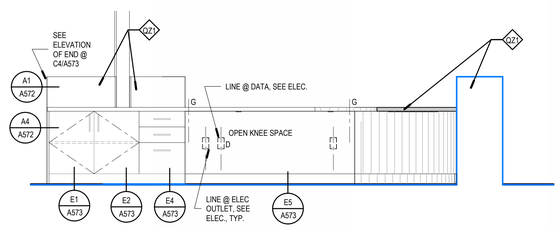
C4 B105 DESK SOUTH

C1/ A420.5 SCALE: 1/2" = 1'-0"



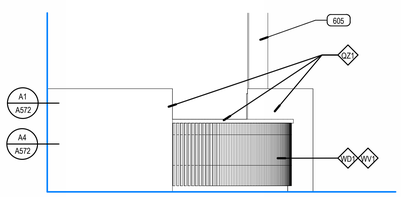
B1 B105 DESK EAST

C1/ A420.5 SCALE: 1/2" = 1'-0"



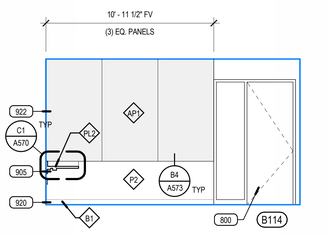
B2 B105 DESK NORTH

C1/ A420.5 SCALE: 1/2" = 1'-0"



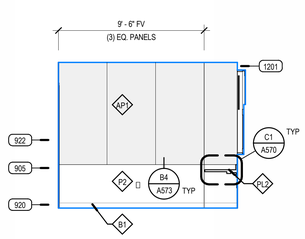
B4 B105 DESK - WEST

C1/ A420.5 SCALE: 1/2" = 1'-0"



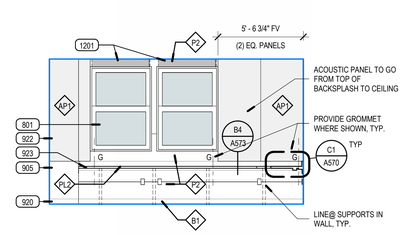
A1 B114 AUDIO ROOM - TOP

A1/ A120.1 SCALE: 1/4" = 1'-0"



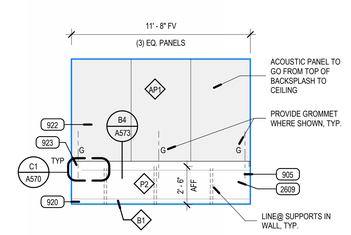
A2 B114 AUDIO ROOM - RIGHT

A1/ A120.1 SCALE: 1/4" = 1'-0"



A3 B114 AUDIO ROOM - BOTTOM

A1/ A120.1 SCALE: 1/4" = 1'-0"



A4 B114 AUDIO ROOM - LEFT

A1/ A120.1 SCALE: 1/4" = 1'-0"

GENERAL ELEVATION NOTES

1. CONTRACTOR TO PROVIDE BACKING REQUIRED FOR MOUNTING OF ALL RESTROOM ACCESSORIES INCLUDING ALL "BY OWNER" ACCESSORIES.
2. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
3. REFER TO FINISH SCHEDULE IN SPECIFICATIONS, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.
4. SEE ELECTRICAL DRAWINGS FOR TYPICAL MOUNTING OF SWITCHES, OUTLETS, THERMOSTATS, ETC. WHICH ARE ADJACENT TO DOORWAYS.
5. ALL WINDOWS HAVE A U-FACTOR OF 0.34 AND AN SHGC FACTOR OF .025, PER THE COMCHECK CERTIFICATION

INT. ELEVATION SYMBOLS

-- XXX KEYED NOTE PLUS FINISH INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES AS INDICATED ON FINISH AND SIGNAGE PLANS,OR PROVIDE ADDITIONAL INFORMATION.

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES AS INDICATED ON FINISH AND SIGNAGE PLANS, OR PROVIDE ADDITIONAL INFORMATION.

-- DOOR TAG

FINISH PLAN SYMBOLS

BASE NAME T: W1 WALL
FLOOR # R: W2 WALL
B7 B R: W3 WALL
F7 F: L: W4 WALL

F SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION

CHANGE AT FLOOR MATERIAL

CG CORNER TYPES MARKER CORNER TYPE

GENERAL FINISH NOTES

1. PROVIDE EPOXY PAINT AT ALL RESTROOMS, AND JANITOR CLOSETS.
2. ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O. ALL FLOOR TRANSITIONS AT FLOOR TILE (T1) LOCATIONS TO BE LOCATED AT INSIDE CORNER OF DOOR.
3. ALL GROUT JOINTS TO BE NO LARGER THAN 1/8". SEE SPEC FOR GROUT SIZES.
4. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
5. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
6. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
7. AT SOFFITS RECEIVING COLOR- PAINT ALL SIDES OF SOFFIT.
8. BACKSPLASHES, AND EDGE BANDING TO HAVE FINISH TO MATCH COUNTERTOP..
9. PROVIDE A SMOOTH TRANSITION AT ALL THINSET TILE FLOOR FINISHES - CONTRACTOR TO INSTALL ALL TILE FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS.
10. SEE FINISH SCHEDULE & GENERAL NOTES FOR H.M. DOOR AND FRAME PAINT COLORS.
11. ALL EXPOSED CEILINGS TO BE PAINTED. REFER TO REFLECTED CEILING PLANS.

KEYED NOTES

605	ROUGH SAWN GLUE-LAM COLUMN STAINED AND SEALED, SEE STRUCTURAL FOR SIZE
625	GLUELAM COLUMN STAINED AND SEALED
800	DOOR & FRAME, SEE SCHEDULE
801	WINDOW SYSTEM, SEE WINDOW TYPES
808	CURTAIN WALL SYSTEM
810	ADA PUSH BUTTON, SEE HARDWARE SCHEDULE
905	5/8" TYPE 'X' GYP. BD. PAINTED WHERE EXPOSED
920	SCHEDULED BASE
922	ACOUSTICAL SOUND PANELS
923	SCHEDULED COUNTERTOP
1021	RECESSED FIRE EXTINGUISHER CABINET W/ F.E.
1023	SIGNAGE, SEE SCHEDULE
1201	ROLLER WINDOW SHADES
2301	PRE-FINISHED MECHANICAL LOUVER
2601	EXIT SIGN
2609	POWER OUTLET

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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED ARCHITECT CERTIFICATE NO. 6457 PHILIP HADERLIE 11-11-26 ARIZONA, U.S.A.

REV	DATE	DESCRIPTION
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ENLARGED PLANS + INT. ELEVATIONS - BUILDING B

A420.5

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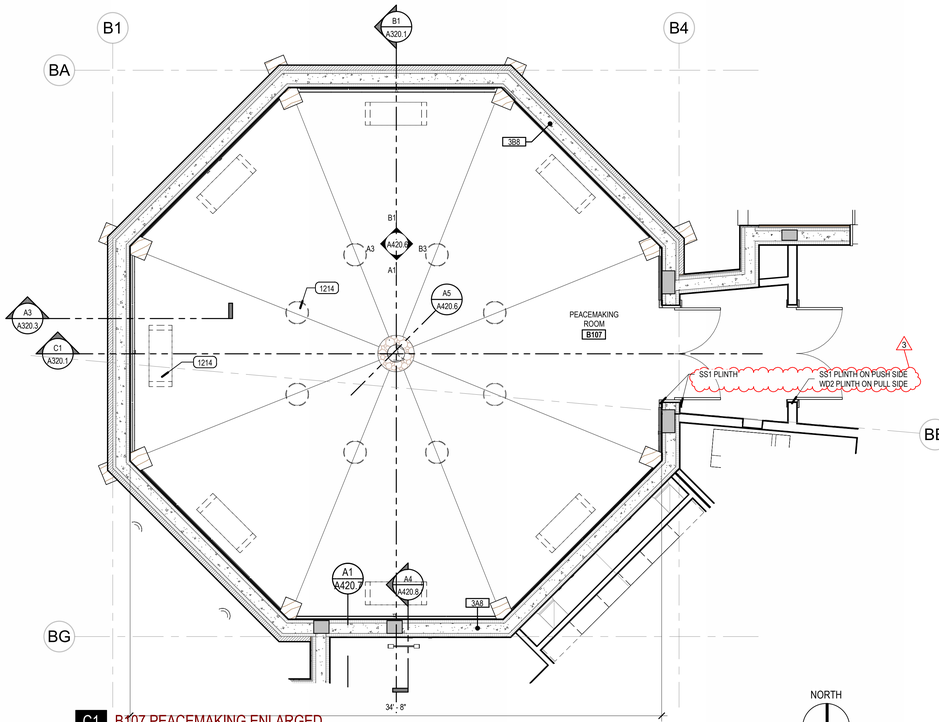


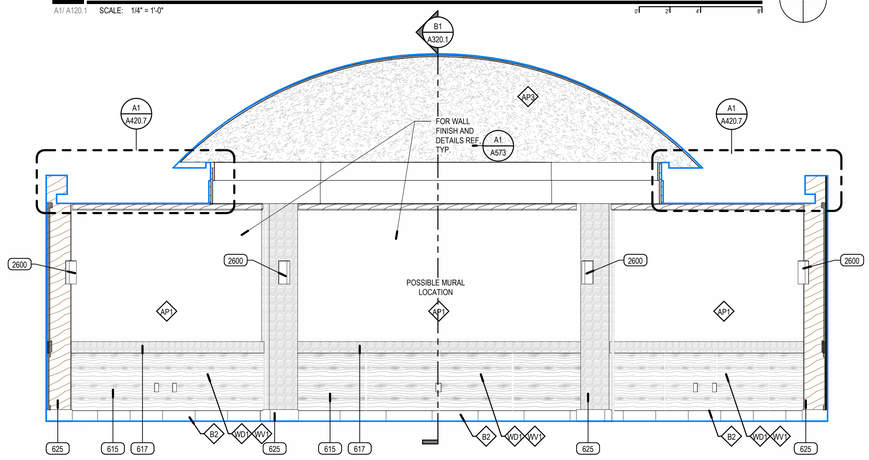
C1 B107 PEACEMAKING ENLARGED

A1/ A120.1 SCALE: 1/4" = 1'-0"



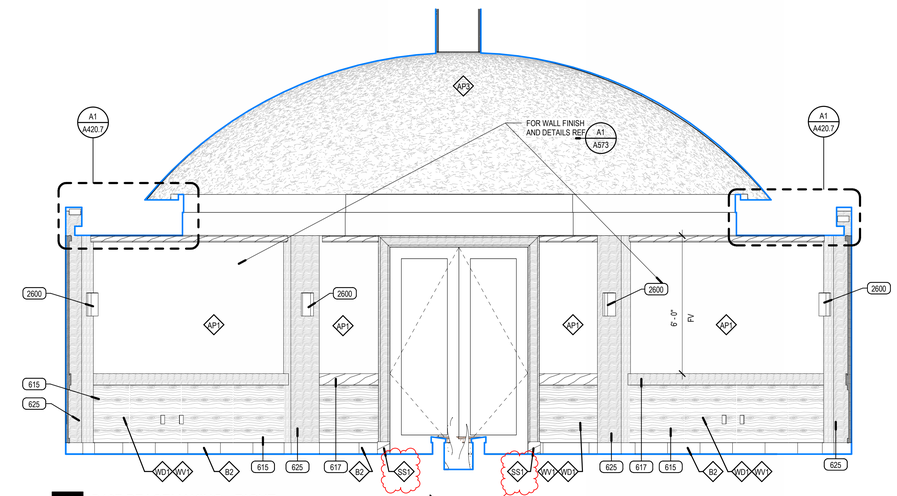
C3 B.I PEACEMAKING ROOM

SCALE: NOT TO SCALE



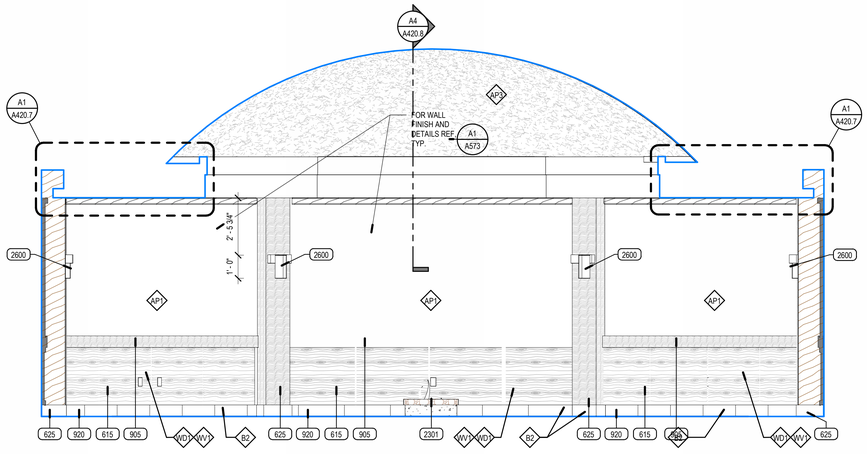
B1 B107 PEACEMAKING - TOP

A4/ A120.3 SCALE: 3/8" = 1'-0"



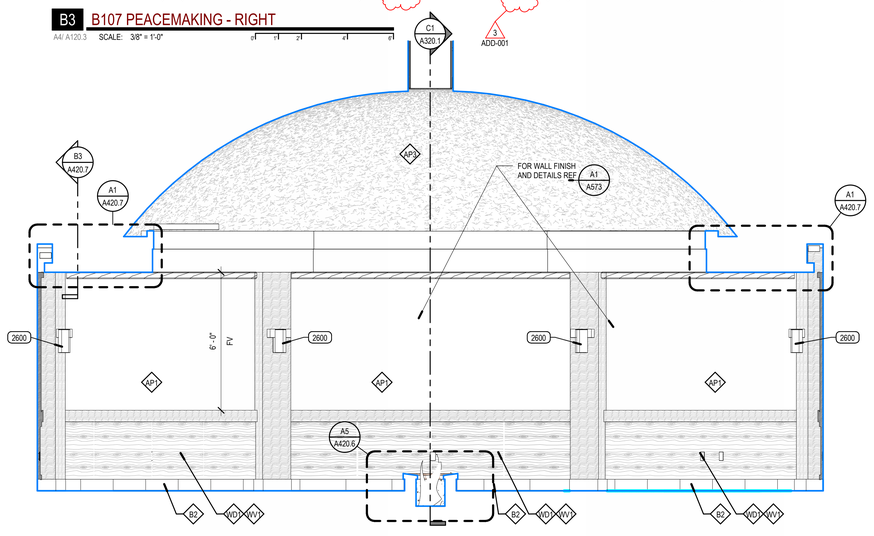
B3 B107 PEACEMAKING - RIGHT

A4/ A120.3 SCALE: 3/8" = 1'-0"



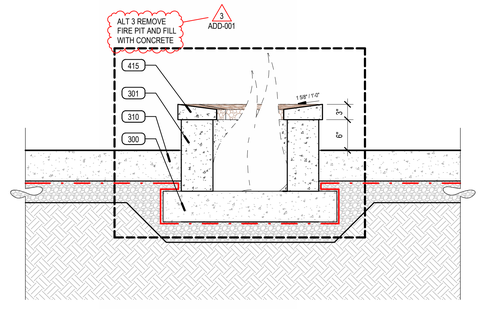
A1 B107 PEACEMAKING - BOTTOM

A4/ A120.3 SCALE: 3/8" = 1'-0"



A3 B107 PEACEMAKING LEFT

A4/ A120.3 SCALE: 3/8" = 1'-0"



A5 SECTION - PIT FIRE

A5/ A120.0 SCALE: 1" = 1'-0"

GENERAL ELEVATION NOTES

1. CONTRACTOR TO PROVIDE BACKING REQUIRED FOR MOUNTING OF ALL RESTROOM ACCESSORIES INCLUDING ALL "BY OWNER" ACCESSORIES.
2. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
3. REFER TO FINISH SCHEDULE IN SPECIFICATIONS, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.
4. SEE ELECTRICAL DRAWINGS FOR TYPICAL MOUNTING OF SWITCHES, OUTLETS, THERMOSTATS, ETC. WHICH ARE ADJACENT TO DOORWAYS.
5. ALL WINDOWS HAVE A U-FACTOR OF 0.34 AND AN SHGC FACTOR OF .025, PER THE COMCHECK CERTIFICATION

INT. ELEVATION SYMBOLS

-- XXX — KEYED NOTE PLUS FINISH INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES AS INIDCATED ON FINISH AND SIGNAGE PLANS,OR PROVIDE ADDITIONAL INFORMATION.

SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES AS INDICATED ON FINISH AND SIGNAGE PLANS, OR PROVIDE ADDITIONAL INFORMATION.

-- — DOOR TAG

GENERAL FINISH NOTES

1. PROVIDE EPOXY PAINT AT ALL RESTROOMS, AND JANITOR CLOSETS.
2. ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O. ALL FLOOR TRANSITIONS AT FLOOR TILE (T1) LOCATIONS TO BE LOCATED AT INSIDE CORNER OF DOOR.
3. ALL GROUT JOINTS TO BE NO LARGER THAN 1/8". SEE SPEC FOR GROUT SIZES.
4. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
5. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
6. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
7. AT SOFFITS RECEIVING COLOR- PAINT ALL SIDES OF SOFFIT.
8. BACKSPLASHES, AND EDGE BANDING TO HAVE FINISH TO MATCH COUNTERTOP..
9. PROVIDE A SMOOTH TRANSITION AT ALL THINSET TILE FLOOR FINISHES - CONTRACTOR TO INSTALL ALL TILE FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS.
10. SEE FINISH SCHEDULE & GENERAL NOTES FOR H.M. DOOR AND FRAME PAINT COLORS.
11. ALL EXPOSED CEILINGS TO BE PAINTED. REFER TO REFLECTED CEILING PLANS.

EXTERIOR FINISH SCHEDULE

STONE

ST1 — STONE 1: 4" SANDSTONE VENEER, FIELD COLOR, ANCHORED ATTACHEMENT

ST2 — STONE 2: 4" SANDSTONE VENEER, ACCENT COLOR, ANCHORED ATTACHEMENT

ST3 — STONE 3: 2" - 3" THICK SANDSTONE, FLAGSTONE VENEER FULLY ADHERED / MORTAR SET

METAL PANELS

MT1 — METAL SIDING - VERTICAL RUNNING BOND

MT2 — METAL SIDING - HORIZONTAL

WOOD

WD1 — GLUELAM BEAMS OR COLUMNS, STAINED AND SEALED, CSBA

PAINT

P10 — SW 9100 UMBER RUST

AP3 — ACOUSTICAL PLASTER

NOTES:

- MASONRY JOINTS TO BE TOOLED AS FOLLOWS: -AT ALL EXTERIOR STONE VENEERS, ALL JOINTS TO BE CONCAVE TOOLED & BRUSHED, TYP. @ TOP/BOTTOM.
- REFER TO SHEETS **A506** AND **A507** FOR METAL PANEL DETAILS, INCLUDING TYPICAL ASSEMBLIES, SILL, JAMB, AND HEAD DETAILS, AND PANEL SIZES.

KEYED NOTES

300	REINFORCED CONCRETE FOOTING (COORD W/ STRUCTURAL)
301	REINFORCED CONCRETE FOUNDATION WALL (COORD W/ STRUCTURAL)
310	4" CONCRETE SLAB OVER 4" GRAVEL BASE
415	STONE CAP, SLOPED FOR DRAINAGE
615	WOOD WAINSCOT PANELING
617	WOOD CHAIR RAIL
625	GLUELAM COLUMN STAINED AND SEALED
905	5/8" TYPE 'X' GYP. BD. PAINTED WHERE EXPOSED
920	SCHEDULED BASE
1214	FURNITURE BY OWNER
2301	PRE-FINISHED MECHANICAL LOUVER
2600	LIGHT FIXTURE

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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED ARCHITECT CERTIFICATE NO. 04574 PHILIP HADERLIE 6-12-26 ARIZONA U.S.A.

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ENLARGED PLANS + INT. ELEVATIONS - BUILDING B

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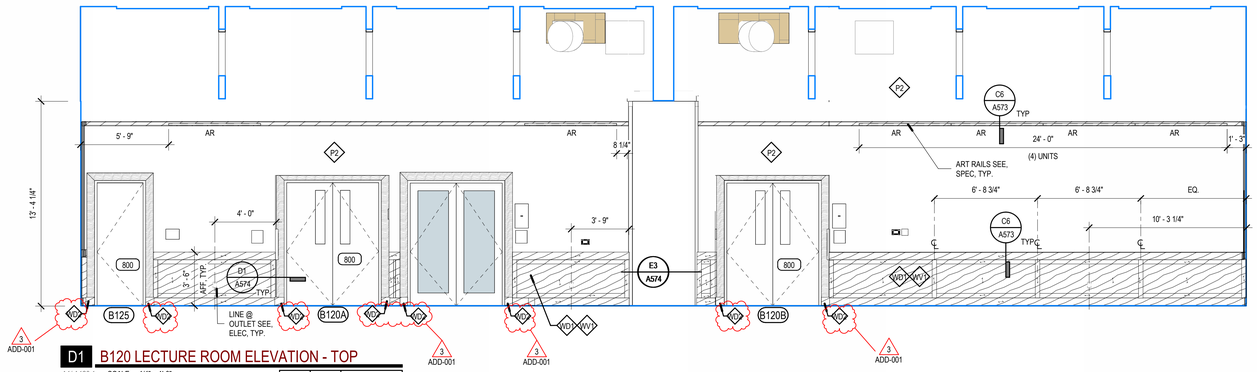
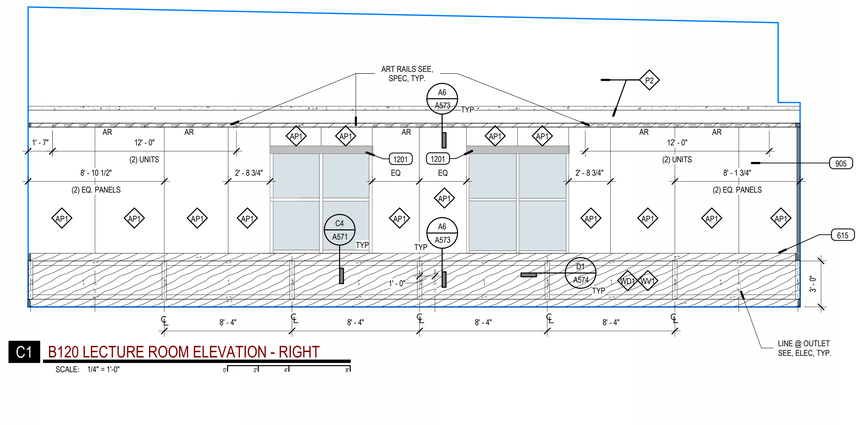


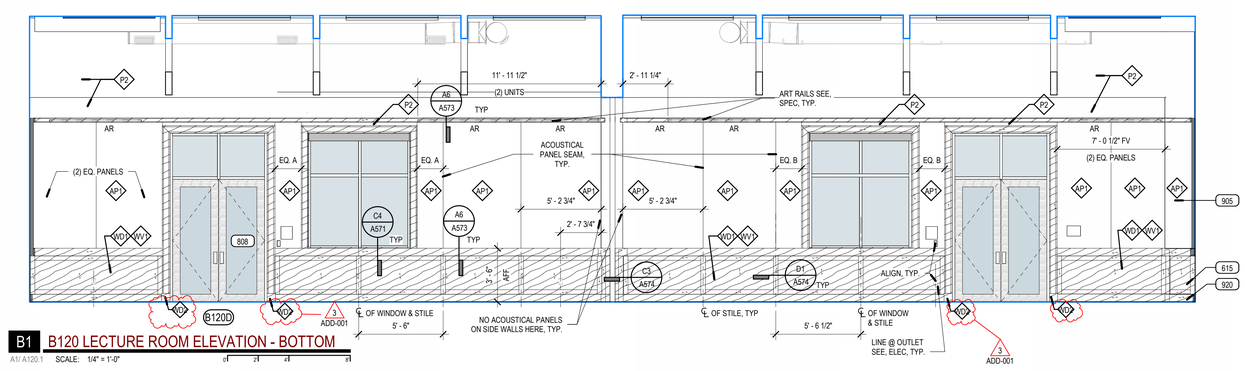
D1 B120 LECTURE ROOM ELEVATION - TOP

A1/ A120.1 SCALE: 1/4" = 1'-0"



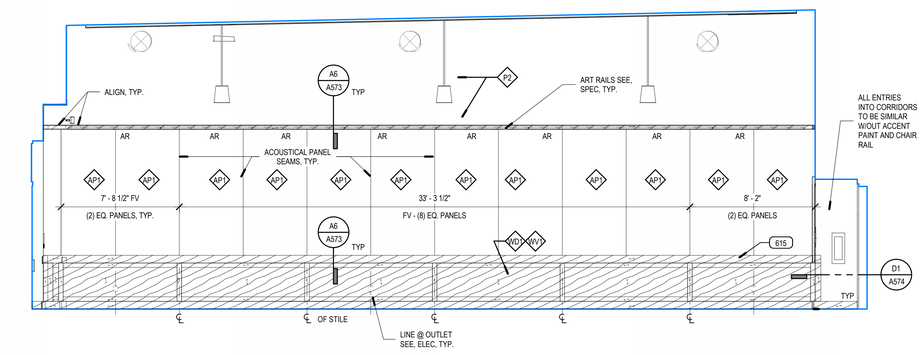
C1 B120 LECTURE ROOM ELEVATION - RIGHT

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



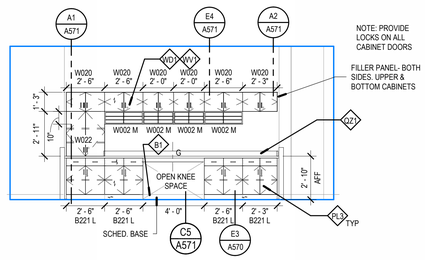
B1 B120 LECTURE ROOM ELEVATION - BOTTOM

A1/ A120.1 SCALE: 1/4" = 1'-0"



A1 B120 LECTURE ROOM ELEVATION - LEFT

A1/ A120.1 SCALE: 1/4" = 1'-0"



A4 B110 LIASON WORK AREA ELEVATION

A4/ A120.3 SCALE: 1/4" = 1'-0"

GENERAL ELEVATION NOTES

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3. REFER TO FINISH SCHEDULE IN SPECIFICATIONS, FOR INTERIOR FINISH SELECTIONS AND SPECIFICATIONS.
4. SEE ELECTRICAL DRAWINGS FOR TYPICAL MOUNTING OF SWITCHES, OUTLETS, THERMOSTATS, ETC. WHICH ARE ADJACENT TO DOORWAYS.
5. ALL WINDOWS HAVE A U-FACTOR OF 0.34 AND AN SHGC FACTOR OF .025, PER THE COMCHECK CERTIFICATION

INT. ELEVATION SYMBOLS

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SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES AS INDICATED ON FINISH AND SIGNAGE PLANS, OR PROVIDE ADDITIONAL INFORMATION.

-- — DOOR TAG

GENERAL FINISH NOTES

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2. ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O. ALL FLOOR TRANSITIONS AT FLOOR TILE (T1) LOCATIONS TO BE LOCATED AT INSIDE CORNER OF DOOR.
3. ALL GROUT JOINTS TO BE NO LARGER THAN 1/8". SEE SPEC FOR GROUT SIZES.
4. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
5. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
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11. ALL EXPOSED CEILINGS TO BE PAINTED. REFER TO REFLECTED CEILING PLANS.

KEYED NOTES

615	WOOD WAINSCOT PANELING
800	DOOR & FRAME, SEE SCHEDULE
808	CURTAIN WALL SYSTEM
905	5/8" TYPE 'X' GYP. BD. PAINTED WHERE EXPOSED
920	SCHEDULED BASE
1201	ROLLER WINDOW SHADES

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VCBO NUMBER: 25240
DATE: 08-28-2025

REGISTERED ARCHITECT CERTIFICATE NO. 84574 PHILIP HADERLIE 8-12-25 STATE OF ARIZONA U.S.A.

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ENLARGED PLANS + INT. ELEVATIONS - BUILDING B

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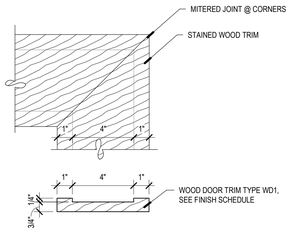
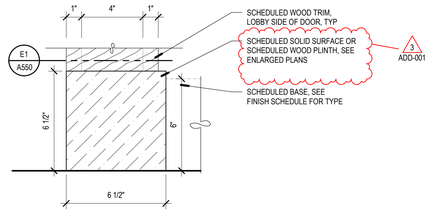


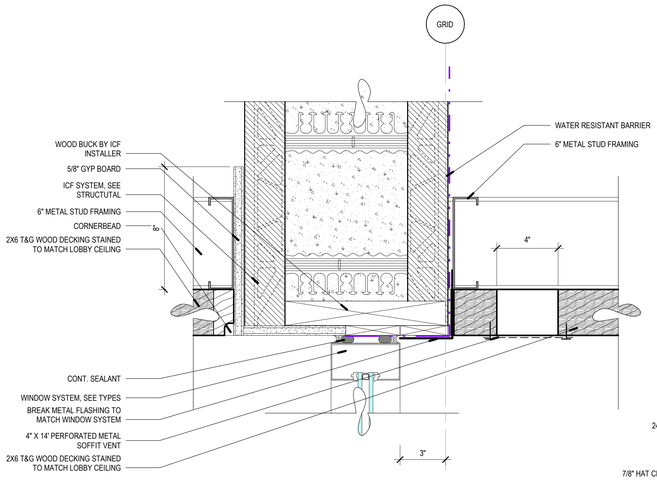
E1 CASING TRIM PROFILE - MITER

C1/ A550 SCALE: 3" = 1'-0"



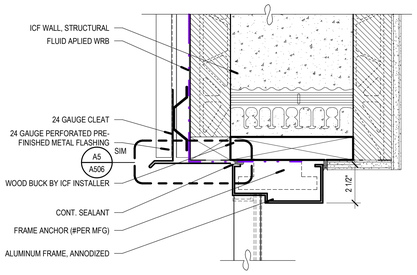
E2 TRIM STONE PLINTH DETAIL

B1/ A600 SCALE: 3" = 1'-0"



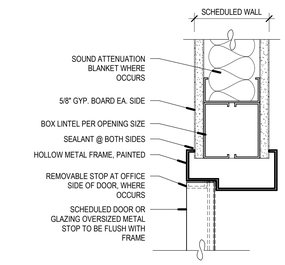
D3 WINDOW HEAD AT WOOD DECKING

SCALE: 3" = 1'-0"



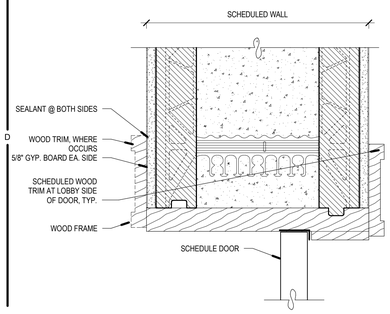
E3 HM DOOR HEAD AT METAL PANEL

B1/ A600 SCALE: 3" = 1'-0"



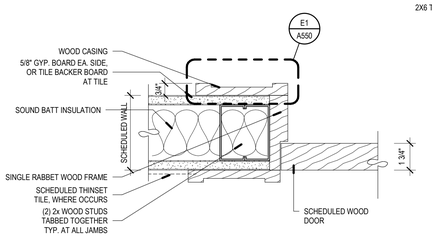
E6 H.M. FRAME HEAD DTL. - SR

B1/ A600 SCALE: 3" = 1'-0"



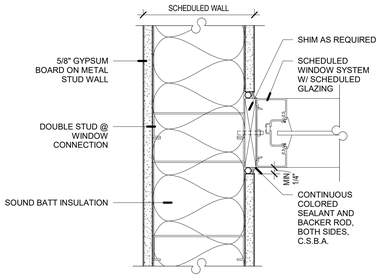
D1 WOOD HEAD DTL. - SR W/ TRIM - ICF WALL

A1/ A320.4 SCALE: 3" = 1'-0"



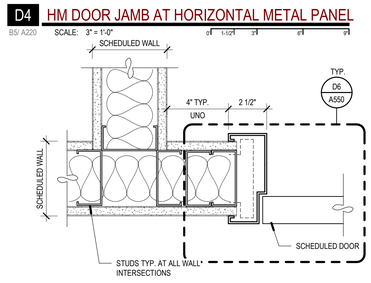
D2 WOOD DOOR JAMB/HEADER DTL. WITH TRIM

A1/ A502.C SCALE: 3" = 1'-0"



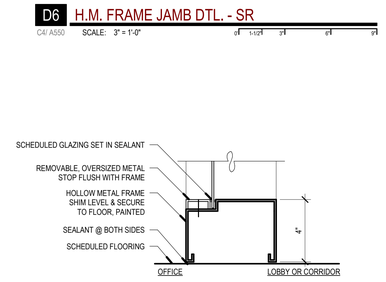
C3 JAMB - INTERIOR STOREFRONT PERPENDICULAR TO WALL

E3/ A502 SCALE: 3" = 1'-0"



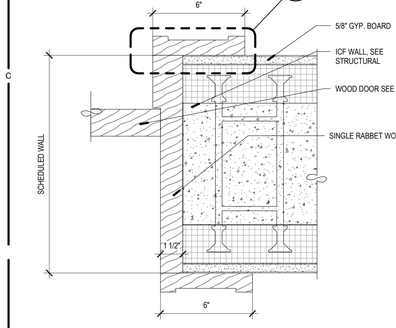
C4 H.M. DOOR CORNER JAMB DTL.

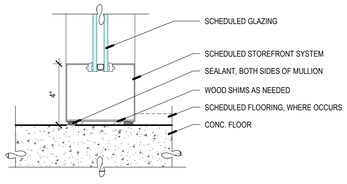
SCALE: 3" = 1'-0"



C6 H.M. FRAME SILL DTL. - SR

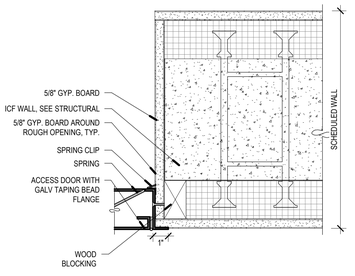
B1/ A600 SCALE: 3" = 1'-0"





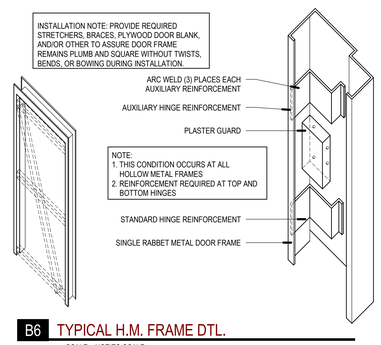
B3 WINDOW SILL AT FLOOR

A4/ A310.3 SCALE: 3" = 1'-0"



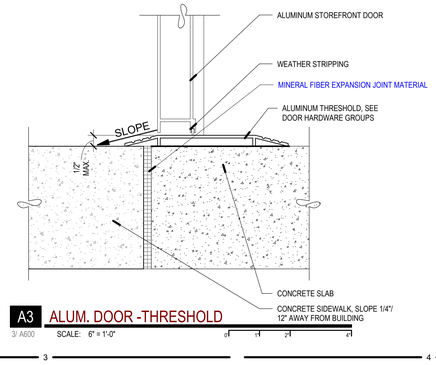
B4 ACCESS DOOR - JAMB

B1/ A600 SCALE: 3" = 1'-0"



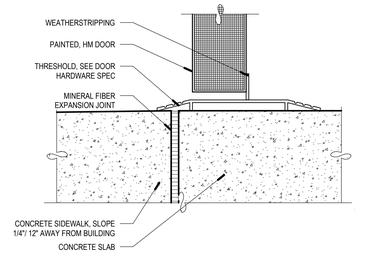
B6 TYPICAL H.M. FRAME DTL.

SCALE: NOT TO SCALE



A3 ALUM. DOOR -THRESHOLD

3/ A600 SCALE: 6" = 1'-0"



A6 EXTERIOR H.M. DOOR THRESHOLD DTL.

B1/ A600 SCALE: 6" = 1'-0"

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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED ARCHITECT CERTIFICATE NO. 04574 PHILIP HADERLIE 6-15-26 ARIZONA, U.S.A.

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NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

DOOR / WINDOW DETAILS

A550

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BUILDING B - DOOR AND FRAME SCHEDULE

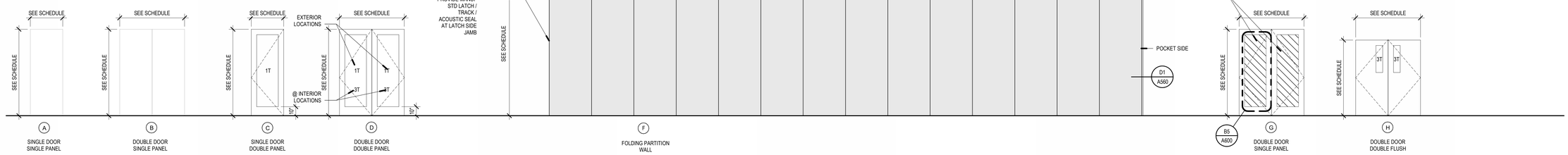
DOOR NUMBER	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK	DOOR ELEV. TYPE	DOOR MATERIAL	DOOR FACING/FINISH	FRAME ELEV. TYPE	FRAME MATERIAL	FRAME FINISH/FACING	FIRE RATING	HARDWARE SET	NOTES	DOOR NUMBER
B100	72"	120"	1 3/4"	D	AL	ANODIZED BRONZE	SF-B1	AL	BRONZE		1.0	CARD READER / ADA OPERATOR, PANIC HARDWARE	B100
B101	72"	120"	1 3/4"	D	AL	ANODIZED BRONZE	SF-B2	AL	BRONZE		6.0	ADA OPERATOR, PANIC HARDWARE	B101
B102	36"	84"	1 3/4"	C	AL	ANODIZED	SF-B5	AL	BRONZE		3.0	CARD READER, PANIC HARDWARE	B102
B103A	36"	96"	1 3/4"	A	WD	STAINED	3	WD	PAINTED		9.0	CARD READER BOTH SIDES OF WALL;	B103A
B103B	36"	96"	1 3/4"	A	HM	PAINTED	1	HM	PAINTED		4.0	FRAME AND DOOR: P8 FOR EXTERIOR SIDE AND P1 FOR INTERIOR SIDE; SEE FINISH SCHEDULE	B103B
B104A	36"	96"	1 3/4"	A	WD	STAINED	3	WD	PAINTED		9.0	CARD READER BOTH SIDES OF WALL;	B104A
B104B	36"	96"	1 3/4"	A	HM	PAINTED	1	HM	PAINTED		4.0	FRAME AND DOOR: P8 FOR EXTERIOR SIDE AND P1 FOR INTERIOR SIDE; SEE FINISH SCHEDULE	B104B
B106	72"	108"	1 3/4"	G	WD	STAINED	3	WD	STAINED		14.0	CNC POCKET DESIGN SEE DETAIL B5/A600, PANIC HARDWARE;	B106
B107	72"	108"	1 3/4"	G	WD	STAINED	3	WD	STAINED		17.0	PANIC HARDWARE	B107
B108	296 1/8"	160"	4"	F	SEE SPEC	SEE SPEC		SEE SPEC					B108
B109	38"	38"		E	STL	PANITED	4	STL	PAINTED				B109
B110	36"	96"	1 3/4"	A	WD	STAINED	3	WD	PAINTED		8.0	CARD READER	B110
B111	36"	96"	1 3/4"	A	WD	STAINED	5	HM	PAINTED		15.0		B111
B112	36"	96"	1 3/4"	A	WD	STAINED	2	HM	PAINTED		12.0		B112
B113	36"	96"	1 3/4"	A	WD	STAINED	2	HM	PAINTED		18.0		B113
B114	36"	96"	1 3/4"	A	WD	STAINED	2	HM	PAINTED		12.0		B114
B115	36"	96"	1 3/4"	A	WD	STAINED	5	HM	PAINTED		16.0	PRIVACY LATCH WITH OCCUPANCY INDICATOR	B115
B116	36"	96"	1 3/4"	A	WD	STAINED	5	HM	PAINTED		16.0	PRIVACY LATCH WITH OCCUPANCY INDICATOR	B116
B117	36"	96"	1 3/4"	A	WD	STAINED	2	HM	PAINTED		12.0		B117
B118	36"	96"	1 3/4"	A	WD	STAINED	5	HM	PAINTED		12.0		B118
B119	36"	96"	1 3/4"	A	WD	STAINED	5	HM	PAINTED		12.0		B119
B120A	72"	96"	1 3/4"	H	WD	STAINED	3	WD	PAINTED		7.0	PANIC HARDWARE	B120A
B120B	72"	96"	1 3/4"	H	WD	STAINED	3	WD	PAINTED		7.0	PANIC HARDWARE	B120B
B120C	72"	96"	1 3/4"	D	AL	ANODIZED BRONZE	SF-B4	AL	BRONZE		2.0	CARD READER, PANIC HARDWARE	B120C
B120D	72"	96"	1 3/4"	D	AL	ANODIZED BRONZE	SF-B4	AL	BRONZE		2.0	CARD READER, PANIC HARDWARE	B120D
B121	36"	96"	1 3/4"	A	WD	STAINED	3	WD	PAINTED		11.0		B121
B122	36"	96"	1 3/4"	A	WD	STAINED	3	WD	PAINTED		10.0		B122
B123	36"	96"	1 3/4"	A	WD	STAINED	3	WD	PAINTED		16.0	PRIVACY LATCH WITH OCCUPANCY INDICATOR	B123
B124	72"	96"	1 3/4"	B	WD	STAINED	3	WD	PAINTED		13.0		B124
B125	36"	96"	1 3/4"	A	WD	STAINED	3	WD	PAINTED		10.0		B125
B126	196"	96"	1 3/4"		MTL			HM					B126
B140	36"	84"	1 3/4"	C	AL	ANODIZED BRONZE	SF-B3	AL	BRONZE		3.0	CARD READER	B140
B150	36"	96"	1 3/4"	A	HM	PAINTED	1	HM	PAINTED		5.0		B150

GLAZING TYPE LEGEND

MARK	DESCRIPTION
1	1" INSULATED , LOW-E SOLAR BAN 70
3	1/4" FLOAT GLASS
2 3 T	"T" INDICATES TEMPERED GLASS

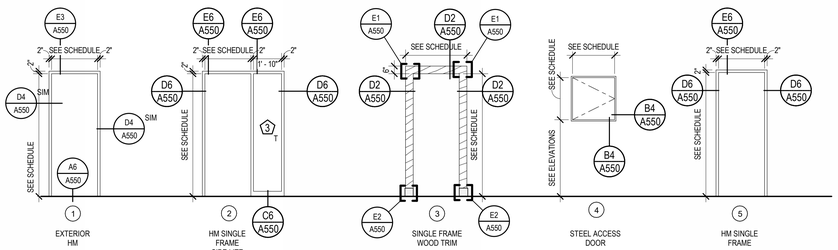
DOOR & FRAME NOTES

1. MATERIAL ABBREVIATIONS:
   WD = WOOD
   AL = ALUMINUM
   HM = HOLLOW METAL
   STL = STEEL
2. ALL HOLLOW METAL DOOR AND WINDOW FRAMES ARE TO HAVE A SINGLE RABBET PROFILE
3. SEE SPECIFICATION FOR HARDWARE GROUP DEFINITION
4. ALL HOLLOW METAL FRAMES OPENING TO THE EXTERIOR ARE TO BE 16 GAUGE AND GALVANIZED
5. ALL HOLLOW METAL DOORS OPENING TO THE EXTERIOR ARE TO BE 14 GAUGE, INSULATED AND GALVANIZED
6. OVERALL ALUMINUM FRAME DIMENSIONS ARE GIVEN FOR REFERENCE, REFER TO DETAILS FOR JAMB AND SILL CONDITIONS. OVERALL DIMENSIONS ARE TO BE FIELD VERIFIED.
7. GENERAL CONTRACTOR TO COORDINATE WORK BETWEEN DOOR INSTALLER AND SECURITY SYSTEM INSTALLER
9. SEE SEE **C3/A550** AND **C5/A550** FOR ALL INTERIOR HM FRAMES
10. ALL WINDOW FRAME DIMENSIONS PROVIDED ARE ROUGH OPENING ONLY. CONTRACTOR TO VERIFY ACTUAL DIMENSIONS REQUIRED FOR SHIM SPACE PER ARCHITECTURAL DETAILS.
11. SEE A5/A550 FOR TYP "END DAM" FLASHING AT STORE FRONT SILLS
12. REFER TO SHEETS **A506** AND **A507** FOR METAL PANEL DETAILS, INCLUDING TYPICAL ASSEMBLIES, SILL, JAMB, AND HEAD DETAILS, AND PANEL SIZES.
13. ALL WINDOWS HAVE A U-FACTOR OF 0.34 AND AN SHGC FACTOR OF .025, PER THE COMCHECK CERTIFICATION.



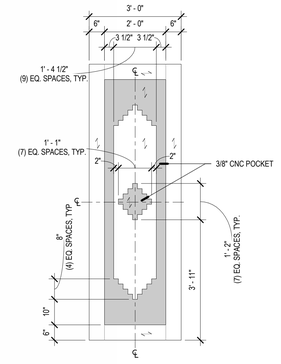
C1 DOOR TYPES

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



B1 DOOR FRAME TYPES

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



B5 CNC POCKET DESIGN DETAIL

C1/ A600 SCALE: 1/2" = 1'-0"

A1 BUILDING B STOREFRONT

A1/ A120.1 SCALE: 3/16" = 1'-0"

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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED ARCHITECT
CERTIFICATE NO.
84574
PHILIP
HADERLIE
12-31-27
ARIZONA, U.S.A.

REV	DATE	DESCRIPTION
1	10/20/2026	CLARIFICATIONS
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

DOOR & WINDOW SCHEDULE

A600

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VARIES (SEE SCHEDULE FOR TEXT)

VARIES, REF. SIGN SCHEDULE

NAVAJO PEACEMAKING CENTER

D1 / A900

DIMENSIONAL METAL LETTERING, FINISH AS SELECTED BY ARCHITECT, CUSTOM FONT ARTWORK PROVIDED BY ARCHITECT

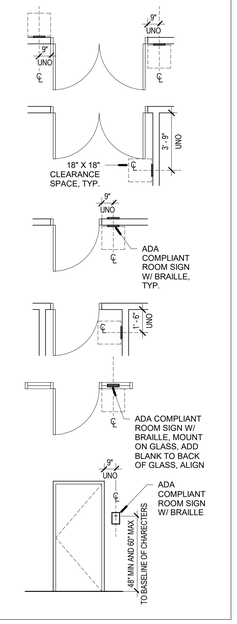
SIGN NOTES

- ALL SIGNS TO MEET CHAPTER 7 OF ANSI 117.1, 2003 AND INCLUDE GRADE 2 BRAILLE. FINISH AND CONTRAST. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARECTERS ON A LIGHT BACKGROUND.
- ALL SANITARY FACILITIES MUST BE IDENTIFIED, INCLUDE INTERNATIONAL SYMBOL OF ACCESSIBILITY, PICTOGRAMS AND BRAILLE.
- ALL ASSEMBLY OCCUPANCIES TO HAVE OCCUPANT LOAD POSTED NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY.

TYPICAL SIGNAGE LOCATIONS

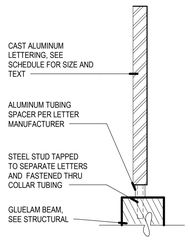
NOTE:

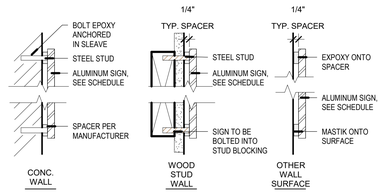
- TYPICAL SIGN HEIGHT, ARCHITECT TO FIELD VERIFY SIGN LOCATIONS WHEN CONFLICTS WITH DEVICES ARISE.
- SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.



E1 SIGN TYPE NAME

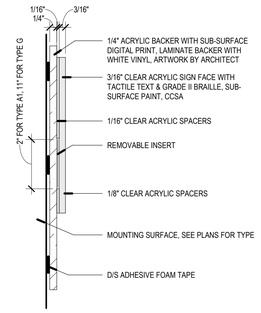
SCALE: 1" = 1'-0"





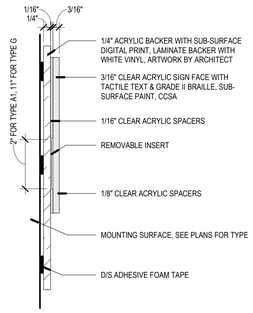
D1 DIMENSIONAL SIGN - BOTTOM MOUNTING

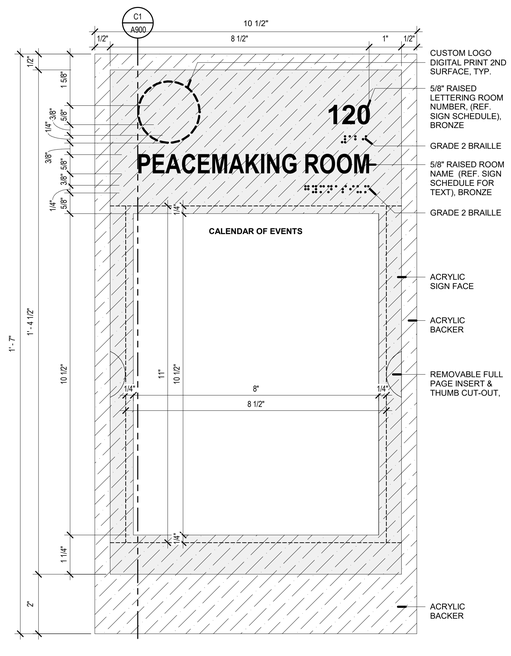
SCALE: 6" = 1'-0"

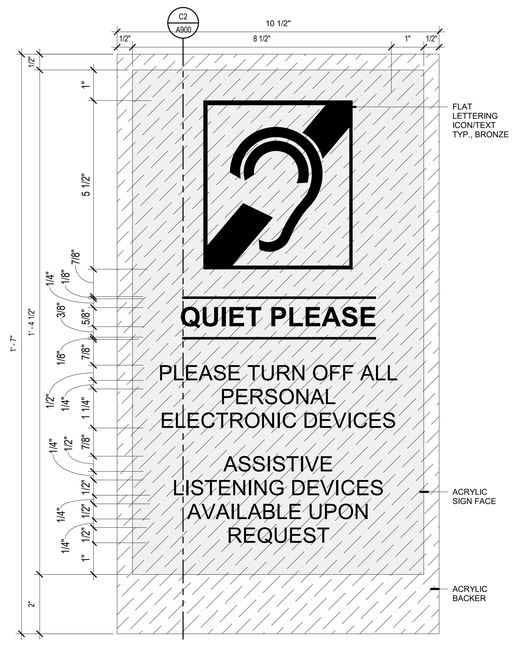


D2 DIMENSIONAL SIGN DETAILS

SCALE: 3" = 1'-0"

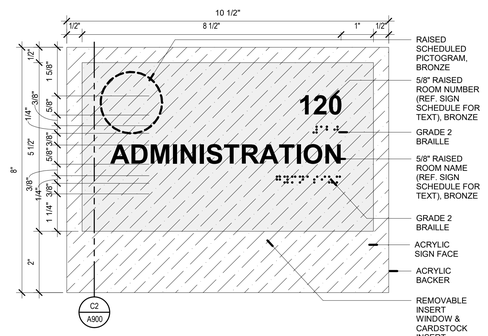






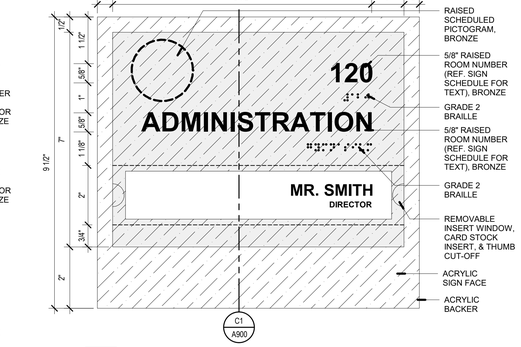
C1 PANEL ROOM SIGN W/INSERT SECTION

SCALE: 6" = 1'-0"



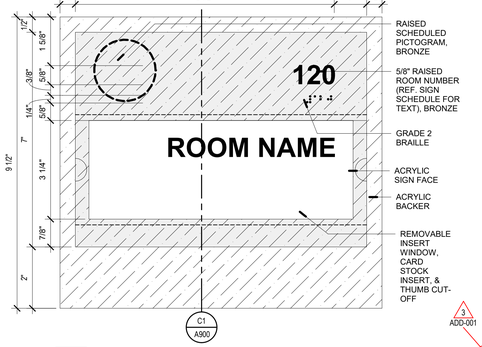
C2 PANEL ROOM SIGN SECTION

SCALE: 6" = 1'-0"



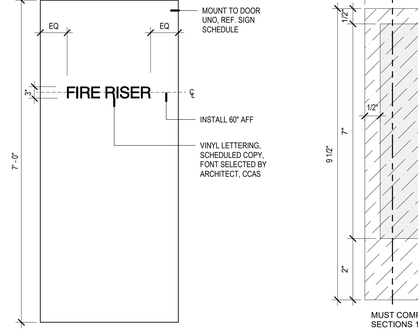
C3 SIGN TYPE G

SCALE: 6" = 1'-0"



C4 SIGN TYPE H

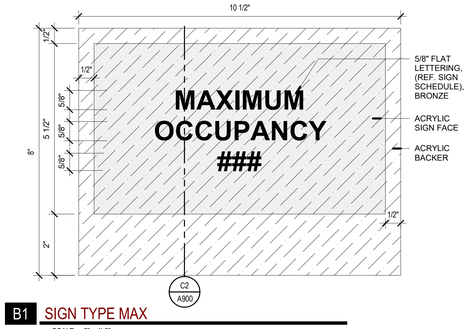
SCALE: 6" = 1'-0"



3 ADD-001

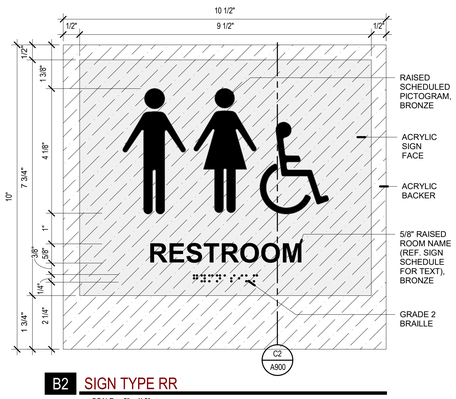
B1 SIGN TYPE MAX

SCALE: 6" = 1'-0"



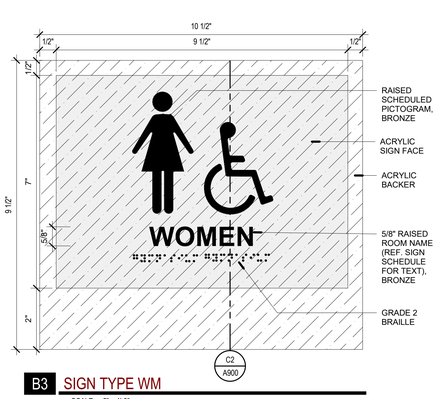
B2 SIGN TYPE RR

SCALE: 6" = 1'-0"



B3 SIGN TYPE WM

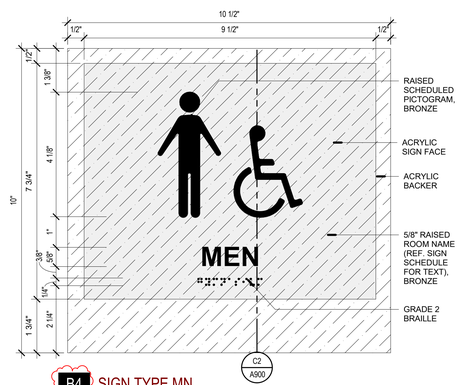
SCALE: 6" = 1'-0"



B4 SIGN TYPE MN

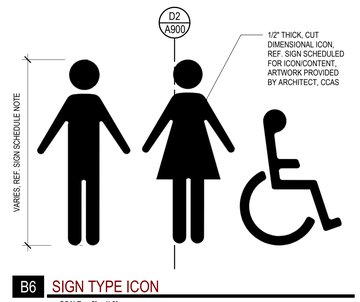
SCALE: 6" = 1'-0"

3 ADD-001



B6 SIGN TYPE ICON

SCALE: 6" = 1'-0"



A1 SIGN TYPE RM

SCALE: 6" = 1'-0"

A2 SIGN TYPE OFC

SCALE: 6" = 1'-0"

A3 SIGN TYPE INS

SCALE: 6" = 1'-0"

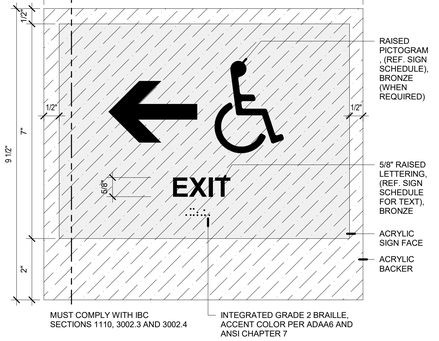
3 ADD-001

A4 SIGN TYPE VNYL

SCALE: 3/4" = 1'-0"

A5 SIGN TYPE PATH

SCALE: 6" = 1'-0"



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VCBO NUMBER: 25240
DATE: 08-28-2025

REGISTERED ARCHITECT
CERTIFICATE NO.
04574
PHILIP
HADERLIE
10-31-25
ARIZONA, U.S.A.

REV	DATE	DESCRIPTION
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ARCHITECTURAL SIGNAGE TYPES & DETAILS

A900

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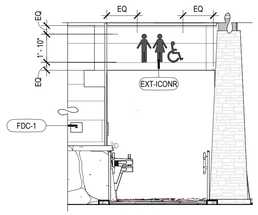

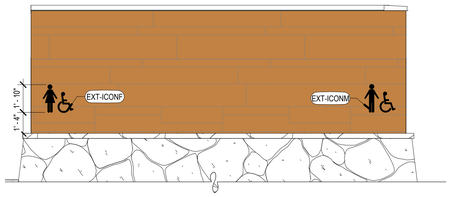

E1 ELEVATION - RESTROOMS ICON

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

E2 ELEVATION - RESTROOM ID

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



A1 BUILDING B - SIGNAGE PLAN

SCALE: 1/8" = 1'-0"

Architectural Signage Schedule

Mark	Type Mark	Sign Room Number	Sign Text	Type Comments	Sign Notes
A-MAX	MAX	-	MAX OCCUPANCY AMPHITHEATER 155	B1/A900	EXTERIOR GRADE ALUMINUM, INSTALLS IN AMPHITHEATER, REF. AS300
A-MAX2	MAX	-	MAX OCCUPANCY PLATFORM 163	B1/A900	EXTERIOR GRADE ALUMINUM, INSTALLS IN AMPHITHEATER PLATFORM, REF. AS300
B101	RM	-	EXIT	A1/A900	NO RM#, NO LOGO
B102	RM	-	EXIT	A1/A900	NO RM#, NO LOGO
B103A	MN	-	MEN	B6/A900	
B103B	MN	-	MEN	B6/A900	EXTERIOR GRADE
B104A	WM	-	WOMEN	B6/A900	
B104B	WM	-	WOMEN	B6/A900	EXTERIOR GRADE
B106	RMLG	B107	PEACEMAKING ROOM	C3/A900	
B110	INS	B110	OFFICES	A3/A900	
B111	INS	B111	PEACEMAKING STORAGE	A3/A900	
B112	INS	B112	PROGRAM COORDINATOR	A3/A900	INCLUDE VINYL BACKER ON REVERSE SIDE
B113	INS	B113	MEETING ROOM	A3/A900	INCLUDE VINYL BACKER ON REVERSE SIDE
B114	INS	B114	AUDIO ROOM	A3/A900	
B115	MN	-	UNISEX ACCESSIBLE ICON	B6/A900	3 ADD-001
B116	WM	-	UNISEX ACCESSIBLE ICON	B6/A900	
B117	INS	B117	TRADITIONAL DINE RESEARCHER	A3/A900	INCLUDE VINYL BACKER ON REVERSE SIDE
B118	INS	B118	LIBRARY	A3/A900	
B119	INS	B119	BI-CULTURE TRAINING MANAGER	A3/A900	
B120	RM	B120	ELECTRICAL ROOM	A1/A900	
B120A	RMLG	B120A	LECTURE ROOM A	C3/A900	
B120A-ALSD	H	-	TYP.	C4/A900	
B120A-M	MAX	-	MAXIMUM OCCUPANCY SEPARATED 278 COMBINED 557	B1/A900	
B120B	RMLG	B120B	LECTURE ROOM B	C3/A900	
B120B-ALSD	H		TYP.	C4/A900	
B120B-M	MAX	-	MAXIMUM OCCUPANCY SEPARATED 279 COMBINED 557	B1/A900	
B120C	RM	-	EXIT	A1/A900	NO RM#, NO LOGO
B120D	RM	-	EXIT	A1/A900	NO RM#, NO LOGO
B122	RM	B122	CUSTODIAL	A1/A900	
B123	RR	-	RESTROOM	B2/A900	
B125	RM	B125	MDF	A1/A900	
B140	RM	-	EXIT	A1/A900	
B150	VNYL	-	FIRE RISER	E1/A900	RED VINYL, MOUNT TO DOOR @ 60" ABOVE GRADE
EXT-ICONF	ICON		FEMALE ACCESSIBLE ICON	B6/A900	REF. E2/AS20
EXT-ICONM	ICON		MALE ACCESSIBLE ICON	B6/A900	REF. E2/AS20
EXT-ICONR	ICON		UNISEX ACCESSIBLE ICON	B6/A900	REF. E1/AS20
FDC-1	FDC		FDC	B1/AS204	EXTERIOR GRADE, FIELD VERIFY LOCATION

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DATE: 08-28-2026



REV	DATE	DESCRIPTION
2	10/20/2026	PLAN CHECK
3	11/11/2026	ADD-001

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

NAVAJO NATION, WINDOW ROCK AZ

CONSTRUCTION DOCUMENTS

ARCHITECTURAL SIGNAGE PLAN+SCHEDULE

A920

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GENERAL NOTES FOR WATER SERVICE

1. PROVIDE 10 FEET MINIMUM HORIZONTAL SEPARATION IN SEPARATE TRENCHES, BETWEEN SEWER AND WATER SERVICES BEYOND THE BUILDING PLUMBING, TO THE TAP LOCATION. PROVIDE 5 FEET MINIMUM HORIZONTAL SEPARATION BETWEEN SEWER SERVICE AND ALL OTHER UTILITIES. FOR SEWER AND WATER CROSSINGS, PROVIDE A MINIMUM OF 12–INCH VERTICAL CLEARANCE, BETWEEN PIPE OUTSIDE DIAMETER (O.D.) TO PIPE O.D. IF SEWER SERVICE CROSSES OTHER UTILITIES, ALL STIPULATIONS FOR THE OTHER UTILITY MUST BE MET.

2. BUILDING PLUMBING: WATER AND SEWER SERVICES TO BE INSTALLED IN ACCORDANCE WITH NTUA STANDARDS AND TECHNICAL SPECIFICATIONS.

3. WATER SERVICE LATERALS SHALL HAVE A MINIMUM COVER OF 36" AND SHALL BE INSTALLED IN CONFORMANCE WITH NTUA STANDARDS AND TECHNICAL SPECIFICATIONS.

4. TAP SADDLES SHALL BE SINGLE STRAP, BAND TYPE SIZED FOR STEEL PIPE O.D., ON PVC PIPE. TAP SADDLES SHALL BE DOUBLE STRAP, BAND TYPE FOR D.I., A.C., AND/OR C–900 PIPE. FOR 2" PIPING, A 2" x 1" CLASS 200, PVC TEE SHALL BE USED. CONTACT NTUA HEADQUARTERS CIVIL ENGINEERING DEPARTMENT ON PIPING SMALLER THAN 2".

5. PROVIDE THE AS–BUILT SWING TIE INFORMATION FOR THE TAP POINT AND OTHER APPURTENANCES INSTALLED, ON SHEET 7 of 8.

6. THE WATER METER SHALL BE CENTERED INSIDE THE METER CAN AND SET A MAXIMUM OF 24" BELOW THE TOP OF GRADE.

7. THE METER CAN SHALL BE LOCATED JUST BEYOND THE SIDEWALK/BACK OF CURB, BEFORE THE PROPERTY LINE, OR WITH OWNER'S PERMISSION A MINIMUM OF 10.0' FROM THE BUILDING.

8. WATER SERVICE LINES ARE LIMITED TO A MAXIMUM OF 200.0'. IF THE PRESSURE AT THE HOME SITE IS ABOVE 70 PSI, INSTALL THE APPROPRIATE TANDEM COPPERSETTER WITH AN INDIVIDUAL PRV. (ITEM 8a FROM THE MATERIAL LIST; FOR 5/8" x 3/4" METER: SHEET 3 OF 8 AND FOR 1" METER: SHEET 4 OF 8).

9. USE UTILITY MARKER TEE POSTS WHERE APPROPRIATE, PER NTUA STD. DTL. WS–13.

10. SUBMIT CONSTRUCTION COST (COST OF PLANT) OF NEW INSTALLATIONS UP TO AND INCLUDING THE METER POINT. INDICATE AS FOLLOWS:

    A. MATERIAL COST
    B. LABOR COST
    C. EQUIPMENT COST
    D. TOTAL CONSTRUCTION COST

    THE COST SHALL BE SHOWN ON SHEET 5 of 5 OF THE TRANSFER AGREEMENT.

11. SHEETS 3 OF 8 AND 4 OF 8 ARE FOR RESIDENTIAL INSTALLATIONS ONLY. FOR ALL OTHER PROJECTS, SUBMIT 2 PLAN SETS OF PROPOSED DRAWINGS AND 4 PLAN SETS OF COMPLETE AS–BUILT DRAWINGS ALONG WITH THE FINAL TRANSFER PACKAGE.

12. IF THERE IS A CONFLICT BETWEEN THESE STANDARD DETAILS FOR WATER AND ANY OTHER SECTION OF THE DETAILS AND/OR THE APPROVED PLANS, THEN THE MORE STRINGENT, AS DETERMINED BY THE NAVAJO TRIBAL UTLITIY AUTHORITY (NTUA), SHALL APPLY.

SHEET 5 OF 8

DESIGNED BY:	NTUA
SURVEYED BY:	–
DRAFTED BY:	NTUA
APPROVED BY:	NTUA
DATE:	06/2017
PROJECT NO.:	–
SCALE:	NTS
ACAD. FILENAME:	207 450 3a 3b to 8a.dwg
DETAIL NO.	WS–1d

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
GENERAL NOTES FOR WATER SERVICE
NTUA HEADQUARTERS — FT.DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	04/08	Revised	L.A.
02	06/17	2017 Update	A.S.
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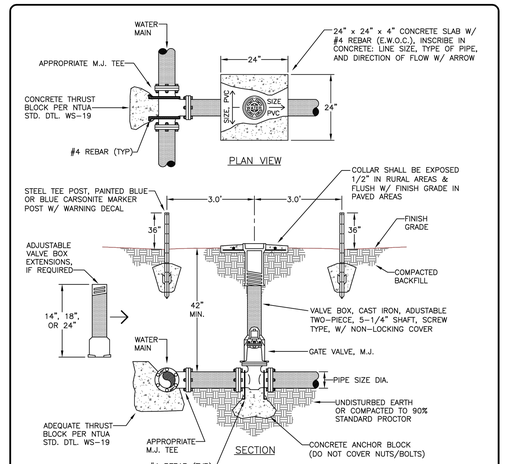

GENERAL NOTES:

1. USE SERIES 2000, PV MEGALUG GLANDS TO SECURE GATE VALVE(S) TO SDR–21, PVC PIPE.
2. USE SERIES 1100 MEGALUG GLANDS TO SECURE GATE VALVE(S) TO DUCTILE IRON PIPE.
3. DO NOT COVER JOINTS AND BOLTS WITH CONCRETE.
4. SEE WS–13 FOR APPROPRIATE LOCATIONS OF MARKER POST.
5. INSTALL #4 REBARS TO THE GATE VALVE & CONCRETE ANCHOR BLOCK.

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ACAD. FILENAME:	207 450 3a 3b to 8a.dwg
DETAIL NO.	WS–16

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
WATER MAINLINE TAP W/ GATE VALVE
NTUA HEADQUARTERS — FT.DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	04/08	Revised	L.A.
02	06/17	2017 Update	A.S.
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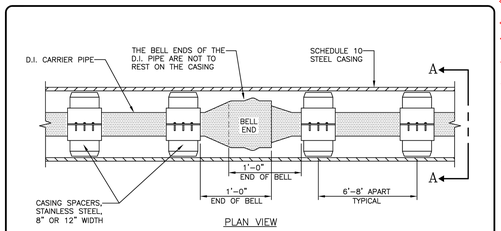

MINIMUM CASING SIZE CHART	
PIPE SIZE (O.D.)	CASING SIZE (I.D.)
4"	12"
6"	14"
8"	16"
10"	18"
12"	20"
14"	22"

GENERAL NOTES:

1. ALL CASING SPACERS SHALL BE #304 STAINLESS STEEL CASING SPACERS, MODEL CSS, 8" OR 12" WIDTH, CCI PIPELINE SYSTEMS.
2. THE BELL AND SPIGOT ENDS OF THE D.I. PIPE SHALL BE INSTALLED DIRECTLY WITHIN THE CASING ON SPACERS AND SHALL NOT BE RESTING ON THE CASING ITSELF.
3. RECOMMENDED POSITIONING OF THE CASING SPACERS IS ONE PLACED 1–2 FEET ON EITHER SIDE OF THE BELL JOINT AND ONE EVERY 6–8 FEET APART THEREAFTER FOR A TOTAL OF THREE CASING SPACERS PER JOINT.
4. SEAL ENDS OF CASING W/ PLASTIC POLY SHEET AND STAINLESS STEEL STRAPS OR AN APPROVED RUBBER BOOT.

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PROJECT NO.:	–
SCALE:	NTS
ACAD. FILENAME:	207 450 3a 3b to 8a.dwg
DETAIL NO.	WS–18

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
INSTALLATION OF CASING SPACERS INSIDE STEEL CASING
NTUA HEADQUARTERS — FT.DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	06/17	2017 Update	A.S.
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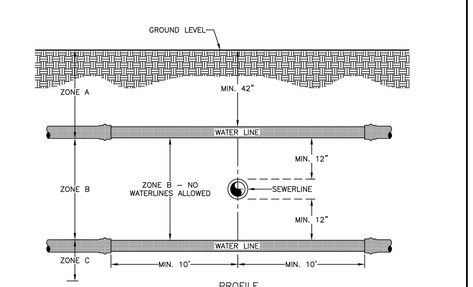

ZONE A – THE BOTTOM OF THE WATER LINE SHALL BE 12" OR MORE ABOVE THE TOP OF THE WASTEWATER LINE. THE TOP OF THE WATERLINE SHALL HAVE A MINIMUM COVER OF 42" – NO SPECIAL PRECAUTIONS REQUIRED.

ZONE B – NO WATER LINES ALLOWED, 12" ABOVE AND 12" BELOW THE WASTEWATER LINE, PIPE O.D. TO PIPE O.D., UNLESS OTHERWISE SPECIFIED.

ZONE C – THE TOP OF THE WATER LINE SHALL BE 12" OR MORE BELOW THE BOTTOM OF THE WASTEWATER LINE.

IF THE WASTEWATER LINE IS NEW CONSTRUCTION, AN 18–FOOT LENGTH OF DUCTILE IRON WASTEWATER GRADE PIPE WITH GASKETED JOINTS SHALL BE CENTERED OVER THE WATER LINE, WITH NO JOINTS CLOSER THAN 9' TO THE WATER LINE IN EACH DIRECTION.

IF THE WATER LINE IS NEW CONSTRUCTION, A 20–FOOT LENGTH OF PVC WATER PIPE SHALL BE CENTERED UNDER THE WASTEWATER LINE.

GENERAL NOTES:

1. WATER LINES SHALL BE INSTALLED ABOVE WASTEWATER LINES AND CROSSINGS SHALL BE SHALL BE AT 90° ANGLE(S), UNLESS OTHERWISE SPECIFIED.
2. WHEN WATER AND WASTEWATER LINES ARE INSTALLED PARALLEL TO EACH OTHER, THE MINIMUM HORIZONTAL SEPARATION SHALL BE 10'.

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ACAD. FILENAME:	207 450 3a 3b to 8a.dwg
DETAIL NO.	WS–20

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
WATER AND SEWER LINE CROSSING SEPERATION
NTUA HEADQUARTERS — FT.DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	06/17	2017 Update	A.S.
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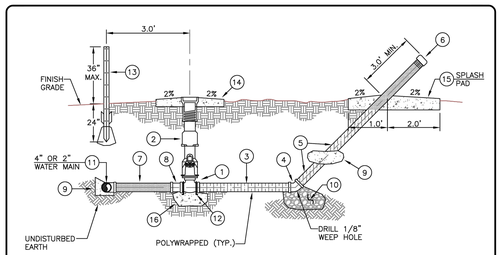

2" FLUSH VALVE FOR 4" & 2" WATER MAINS		
(#)	MATERIAL LIST	
ITEM	QTY	DESCRIPTION
1	1	2" GATE VALVE, C.I., RESILIENT SEAT WEDGE, N.R.S., R.H.T., 2" OPERATING NUT, 200 PSI RATED WORKING PRESSURE
2	1	VALVE BOX, 2–PIECE SCREW TYPE, 5–1/4" SHAFT W/ CAST IRON DROP LID
3	1	2" x 3' PIPE (MIN.), GALVANIZED IRON (G.I.), POLYWRAPPED OR COATED
4	1	2" x 45° ELBOW, G.I., W/ 1/8" WEEP HOLE
5	1	2" PIPE, G.I. x CUT TO LENGTH AS NEEDED
6	1	2" CAP, G.I., DRILL 1/8" VENT WEEP HOLE
7	1	2" PIPE, PVC, SDR–21, CUT TO LENGTH AS NEEDED
8	1	2" ADAPTER, PVC, SDR–21, SLIP GASKET x MIPT
9	A.R.	CONCRETE THRUST BLOCK, 1.5 CF MIN. (DO NOT COVER JOINTS OR BOLTS)
10	1.5 CF	FILTER ROCK/CLEAN GRAVEL
11	1	NEW SADDLE OR TEE FOR 4" OR 2" WATER MAINS ONLY
12	A.R.	#4 REBAR, E.W.O.C.
13	2	5' STEEL TEE POST, PAINTED BLUE OR BLUE CARSONITE MARKER POST W/ PROPER WARNING DECAL
14	1	CONCRETE COLLAR, 24" SQUARE x 4" THICK, W/ #4 REBAR, E.W.O.C., INSCRIBED W/ LINE SIZE, TYPE OF PIPE, AND DIRECTION OF FLOW W/ ARROW
15	1	3' x 3' x 4" SPLASH PAD
16	A.R.	CONCRETE ANCHOR BLOCK, 1.5 CF MIN. (DO NOT COVER JOINTS OR BOLTS)

NOTES:
1. A.R. = AS REQUIRED
2. CF = CUBIC FEET

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DETAIL NO.	WS–11

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
2" FLUSH VALVE DETAIL ON 4" & 2" WATER MAINS
NTUA HEADQUARTERS — FT.DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	04/08	Revised	L.A.
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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED PROFESSIONAL ENGINEER (CIVIL) — 83676 JAYMIN R. VIDERS — My Commission Expires — ARIZONA U.S.A.

PERMIT SET

MEI MERIDIAN ENGINEERING, INC.

REV	DATE	DESCRIPTION
1	11-05-2026	ADDENDUM 1

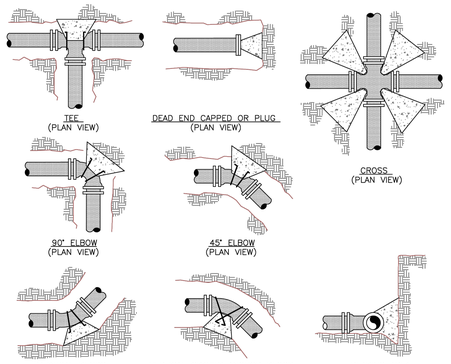
NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

CONSTRUCTION DOCUMENTS

UTILITY DETAILS

C104



MINIMUM BEARING AREAS IN SQUARE FEET				
PIPE SIZE	TEE & PLUG	90° ELBOW	45° OR 22 1/2° ELBOW	CROSS
2"	0.5	0.5	0.5	0.5
4"	1.5	2.0	1.5	1.0
6"	3.0	4.5	2.5	2.0
8"	5.0	7.5	4.0	4.0
10"	8.0	11.0	6.5	5.5
12"	11.0	15.5	9.0	8.0
14"	15.0	21.0	12.0	10.5
16"	19.0	27.0	15.5	13.5
18"	24.0	34.0	19.0	17.0

NOTES:

1. DO NOT COVER GASKETED JOINTS AND NUTS/BOLTS.
2. PRESSURE TESTING SHALL NOT COMMENCE UNTIL THE CONCRETE HAS SET A MINIMUM OF 48 HRS., UNLESS OTHERWISE SPECIFIED.
3. #4 REBARS AS SHOWN.

SHEET 1 OF 2

DESIGNED BY:	NTUA
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DATE:	08/2017
PROJECT NO.	—
SCALE:	NTS
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DETAIL NO.	WS-19

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
CONCRETE THRUST BLOCK DETAILS
NTUA HEADQUARTERS FT. DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	04/08	Revised	L.K.
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CONCRETE THRUST BLOCK CHART
(ALSO TO BE USED IN UNSTABLE TRENCH CONDITIONS)

RESULTANT THRUST IN POUNDS OF FITTINGS AT 100 PSI WATER PRESSURE

TOTAL POUNDS					
PIPE SIZE	DEAD END	90° ELBOW	45° ELBOW	22 1/2° ELBOW	11 1/4° ELBOW
3"	1,232	1,742	943	481	241
4"	1,810	2,559	1,385	706	355
6"	3,739	5,288	2,862	1,459	733
8"	6,433	9,097	4,923	2,510	1,261
10"	9,677	13,685	7,406	3,776	1,897
12"	13,685	19,353	10,474	5,340	2,683
14"	18,385	26,001	14,072	7,174	3,604
16"	23,799	33,628	18,199	9,278	4,661
18"	29,865	42,235	22,858	11,653	5,855
20"	36,644	51,822	28,046	14,298	7,183
24"	52,279	73,934	40,013	20,398	10,249
30"	80,425	113,738	61,554	31,380	15,766
36"	115,209	162,931	88,177	44,952	22,585
42"	155,528	219,950	119,036	60,684	30,489
48"	202,683	286,637	155,127	79,083	39,733
54"	260,214	367,999	199,160	101,531	51,011
60"	298,121	421,606	228,172	116,321	58,442
64"	338,707	479,004	259,235	132,157	66,398

GENERAL NOTES:

1. THE THRUST (IN TOTAL POUNDS) IN THE CHART IS BASED ON DUCTILE IRON OUTSIDE DIAMETER PIPE DIMENSION. SURGES SHOULD BE CONSIDERED AT TWICE THE NORMAL OPERATING PRESSURE. THE VOLUME OF THE GRAVITY THRUST BLOCK IS BASED ON CONCRETE AT 150 LBS./FT3.
2. TO OBTAIN VOLUME OF CONCRETE REQUIRED, USE:
   VOLUME OF CONCRETE (CF)= THRUST (LBS.) x SYSTEM PRESSURE (PSI)/100 PSI // 150 LBS./CF

   E.G.: CALCULATE THE VOLUME OF THE GRAVITY THRUST BLOCK FOR AN 8" x 45° BEND AT AN OPERATING PRESSURE OF 80 PSI.

   ANSWER: 4923 LBS x 160 PSI / 100 PSI DIVIDED BY 150 LBS / CUBIC FT = 52.5 CUBIC FT OR 2 CUBIC YARDS.

SHEET 2 OF 2

DESIGNED BY:	NTUA
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APPROVED BY:	NTUA
DATE:	08/2017
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SCALE:	NTS
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DETAIL NO.	WS-19a

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
CONCRETE THRUST BLOCK CHART
NTUA HEADQUARTERS FT. DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	04/08	Revised	L.K.
02	08/17	2017 Update	A.S.
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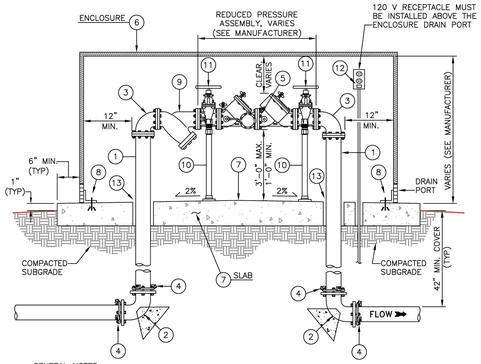

GENERAL NOTES:

1. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY SHALL COMPLY WITH ASSE 1013, AWWA C511 & USC-FCCCHR.
2. NO WATERLINE CONNECTIONS ARE ALLOWED BETWEEN THE METER AND BACKFLOW PREVENTION ASSEMBLY.
3. BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED WITHIN 5-FT OF THE METER BOX.
4. BACKFLOW PREVENTION ASSEMBLY SHALL BE CENTERED ON CONCRETE PAD AND COVERED WITH AN ENCLOSURE.
5. MINIMUM HEATED & INSULATED CLASS I, ASSE 1030 WEATHERPROOF ENCLOSURE REQUIRED.
6. PROTECT PIPES & BACKFLOW PREVENTION ASSEMBLY FROM FREEZING WITH INSULATION AND HEATING SOURCE.
7. STANDARD 120V GFCI ELECTRICAL RECEPTACLE TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE FOR OUTDOOR AND DAMP ENCLOSURE OPERATION.
8. PIPE MATERIAL SHALL BE CLASS 150 DIP OR BETTER.
9. INSTALLATION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE SPECIFICATIONS.
10. PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AND OPERATION OF BACKFLOW PREVENTION ASSEMBLY AND COMPLIANCE WITH REPORTING AND TESTING REQUIREMENTS.
11. MINIMUM 24" CLEARANCE FROM WALL ON THE TEST PORTS SIDE OF THE ASSEMBLY FOR TESTING.
12. CLEARANCE FOR TOP OF ENCLSURE TO ASSEMBLY VARIES PER ASSEMBLY MODEL AND ENCLOSURE MANUFACTURER.

SHEET 1 OF 2

DESIGNED BY:	NTUA
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DETAIL NO.	WS-26

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
3" & LARGER OUTDOOR, REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY
NTUA HEADQUARTERS FT. DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	01/15	2015 Addition	A.S.
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3" & LARGER OUTDOOR, REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY

MATERIAL LIST

ITEM	QTY	DESCRIPTION
1	A.R.	CLASS 150 DIP PIPE
2	2	CLASS 350 DIP MJ 90 DEGREE ELBOWS W/ CONCRETE THRUST BLOCK
3	2	CLASS 350 DIP MJ 90 DEGREE ELBOWS
4	A.R.	LOCKING TYPE RETAINER GLAND / MEGA LUGS
5	1	BACKFLOW PREVENTION ASSEMBLY, REDUCED PRESSURE PRINCIPLE
6	1	CLASS I, ASSE 1060 HEATED & INSULATED WEATHERPROOF ENCLOSURE W/ DRAIN OUTLETS, ANCHORED TO CONCRETE MOUNTING PAD
7	1	6" – 3,000 PSI CONCRETE MOUNTING PAD, DIMENSIONS PER ENCLOSURE MANUFACTURER SPECIFICATION
8	A.R.	ANCHOR SYSTEM FOR ENCLOSURE (HARDWARE)
9	1	CAST IRON WYE STRAINER (FLANGED), WILKINS MODEL 'FS' SERIES, OAE (OPTIONAL)
10	2	ADJUSTABLE PIPE SUPPORT
11	2	APPROVED 6" NRS GATE VALVE, NON-RISING STEM
12	1	GFCI ELECTRICAL RECEPTACLE
13	A.R.	MINIMUM 1" ANNULAR AREA AROUND PIPE & ELECTRICAL CONDUIT W/ PIPE SLEEVE

GENERAL NOTES:

1. A.R. = AS REQUIRED
2. OAE = OR APPROVED EQUAL

SHEET 2 OF 2

DESIGNED BY:	NTUA
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APPROVED BY:	NTUA
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PROJECT NO.	—
SCALE:	NTS
ACAD. FILENAME:	207 050 3d, 3b, 3c Rdm.dwg
DETAIL NO.	WS-26a

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
MATERIAL LIST:
3" & LARGER OUTDOOR, REDUCED PRESSURE PRINCIPLE
NTUA HEADQUARTERS FT. DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	01/15	2015 Addition	A.S.
02	08/17	2017 Update	A.S.
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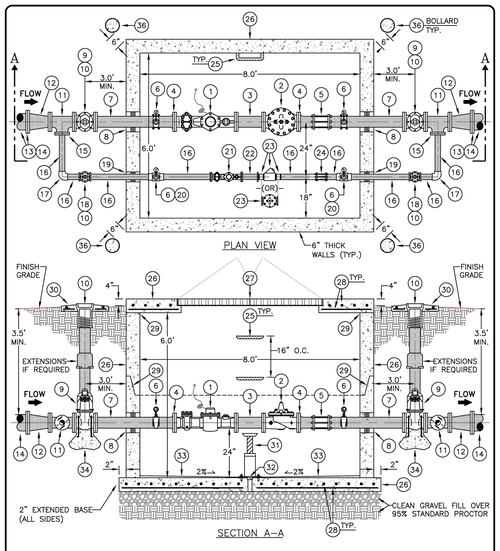

NOTES: 1. PROVIDE ADEQUATE CLEARANCE BETWEEN FLANGE BOLTS AND WALL FOR MAINTENANCE.
2. GATE VALVES AND TEES TO BE SUPPORTED ON 95% STANDARD PROCTOR.

SHEET 1 OF 2

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DETAIL NO.	WS-8

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
4" x 2" METER ON 6" WATER LINE
NTUA HEADQUARTERS FT. DEFIANCE, AZ

REVISIONS			
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4" x 2" METER ON 6" WATER LINE		
MATERIAL LIST		
ITEM	QTY	DESCRIPTION
1	1	4" ELSTER TS4000 TURBINE METER, FLANGED, GALLONS, W/ E.A. WATER MODULE (AMI)
2	1	4" CLA-VAL, PRESSURE REDUCING VALVE, FLANGED, 90 SERIES W/ OPTIONS A, B, C, D, & V. IF LINE PRESSURE IS 80 PSI OR LESS, INSTALL 4" BRASS CHECK VALVE.
3	A.R.	4" DUCTILE IRON (D.I.) SPOOL PIECE, CLASS 350 (LENGTH VARIES PER METER SIZE)
4	2	4" D.I. "E-Z" FLANGED ADAPTER, CLASS 350
5	1	4" DRESSER COUPLING (6" LONG FOR D.I. PIPE)
6	4	PRESSURE GAUGE W/ 1/4" BRASS SHUTOFF VALVE (GLYCERIN)
7	A.R.	4" D.I. PIPE, CLASS 350, PLAIN END, CUT AS NEEDED
8	2	VAULT BORE DONUTS, 8" W/ 4" HOLE
9	2	4" GATE VALVE, M.J., RESILIENT SEAT, FLANGED, N.R.S., R.H.T., W/ 2" OPERATING NUT
10	2	VALVE BOX, 2-PIECE SCREW TYPE, 5-1/4" SHAFT W/ CAST IRON DROP LID
11	2	4" x 4" x 4" D.I. TEE, CLASS 350, FLANGED
12	2	6" x 4" D.I. REDUCER, CLASS 350, FLANGED
13	2	6" "E-Z" FLANGED ADAPTER, D.I., CLASS 350
14	–	EXISTING 6" WATER MAIN LINE
15	2	4" x 2" D.I. BLIND REDUCING FLANGE, CLASS 350, F.I.P.T.
16	A.R.	2" STAINLESS STEEL PIPE, THREADED, CUT AS NEEDED
17	2	2" 90° STAINLESS STEEL ELBOW, F.I.P.T.
18	2	2" GATE VALVE, F.I.P.T., N.R.S., R.H.T., W/ 2" OPERATING NUT
19	2	VAULT BORE DONUTS, 6" W/ 2" HOLE
20	1	2" D.I. TEE, CLASS 350 W/ 2" x 3/4" BUSHING & 3/4' x 1/4" BUSHING FOR PRESSURE GAUGE
21	1	2" ELSTER TS4000 TURBINE METER, FLANGED, GALLONS, W/ E.A. WATER MODULE
22	A.R.	2" D.I. SPOOL PIECE, CLASS 350 (LENGTH VARIES PER METER SIZE)
23	1	INSTALL 2" BRASS CHECK VALVE, F.I.P.T., WITH 2" X 6" BRASS NIPPLES. IF UPSTREAM PRESSURE IS OVER 70 PSI, INSTALL 2" CLA-VAL, PRESSURE REDUCING VALVE, FLANGED, 90 SERIES W/ OPTIONS A, B, C, D, & V.
24	1	2" DRESSER COUPLING (6" LONG FOR S.S. PIPE)
25	A.R.	PLASTIC COATED STEEL OR ALUMINUM STEP @ 16" O.C., INSTALL TO 12" ABOVE VAULT FLOOR
26	1	8' x 6' x 6' (INT. DIM.) PRECAST CONCRETE VAULT (4,000 PSI MIN.), 6" THICK WALLS W/ 6" THICK REINFORCED CONCRETE TOP (8" THICK FOR TRAFFIC RATING) AND 6" REINFORCED CONCRETE BASE
27	1	5' x 5' SQ., INSULATED, DOUBLE DOOR COVER AND SAFETY GRATE, ALUMINUM CHANNEL FRAME W/ HANDLE SLAM LOCK AND COVERED PADLOCK CLIP
28	A.R.	#4 REBAR, E.W.O.C.
29	A.R.	VAULT JOINTS TO BE SEALED WITH BITUMASTIC OR GASKET
30	1	24" x 24" x 4" CONCRETE COLLAR W/ #4 REBAR, E.W., INDICATE PIPE SIZE & FLOW DIRECTION
31	A.R.	ADJUSTABLE METAL PIPE SUPPORT W/ TWO EQUALLY SPACED PIPE SUPPORTS ON BYPASS ASSEMBLY
32	1	2" FLOOR DRAIN W/ SCREEN, DRAIN TO 5' CLEAN GRAVEL (ADJUST PER FIELD CONDITIONS)
33	A.R.	CEMENT, NON-SHRINK GROUT, SLOPE FINISH @ 2% (0.02%) TOWARD VAULT DRAIN
34	A.R.	CONCRETE ANCHOR BLOCK PER NTUA STD. DTL. WS-19 & WS-19a
35	2	2" D.I. DOUBLE STRAP W/ 2" x 3/4" BUSHING AND 3/4" x 1/4" BUSING FOR PRESSURE GAGE
36	4	6" DIA. BOLLARDS AT 6" MIN. FROM VAULT CORNERS PER MAG. STD. 140, TYPE 1

SHEET 2 OF 2

DESIGNED BY:	NTUA
SURVEYED BY:	—
DRAFTED BY:	NTUA
APPROVED BY:	NTUA
DATE:	08/2017
PROJECT NO.	—
SCALE:	NTS
ACAD. FILENAME:	207 050 3d, 3b, 3c Rdm.dwg
DETAIL NO.	WS-8a

NAVAJO TRIBAL UTILITY AUTHORITY
ENGINEERING & CONSTRUCTION OPERATIONS DIVISION
MATERIAL LIST:
4" x 2" METER ON 6" WATER LINE
NTUA HEADQUARTERS FT. DEFIANCE, AZ

REVISIONS			
No.	Date	Brief	By
01	04/08	Revised	L.K.
02	08/17	2017 Update	A.S.
03			
04			
05			
06			

30

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SALT LAKE CITY, UT 84102
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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
83676
JAYMIN R. VIDERS
Expires 12/31/2027
ARIZONA, U.S.A.

PERMIT SET

MEI
MERIDIAN ENGINEERING, INC.

REV	DATE	DESCRIPTION
1	11-19-2026	ADDENDUM 1 SHEET ADDED

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

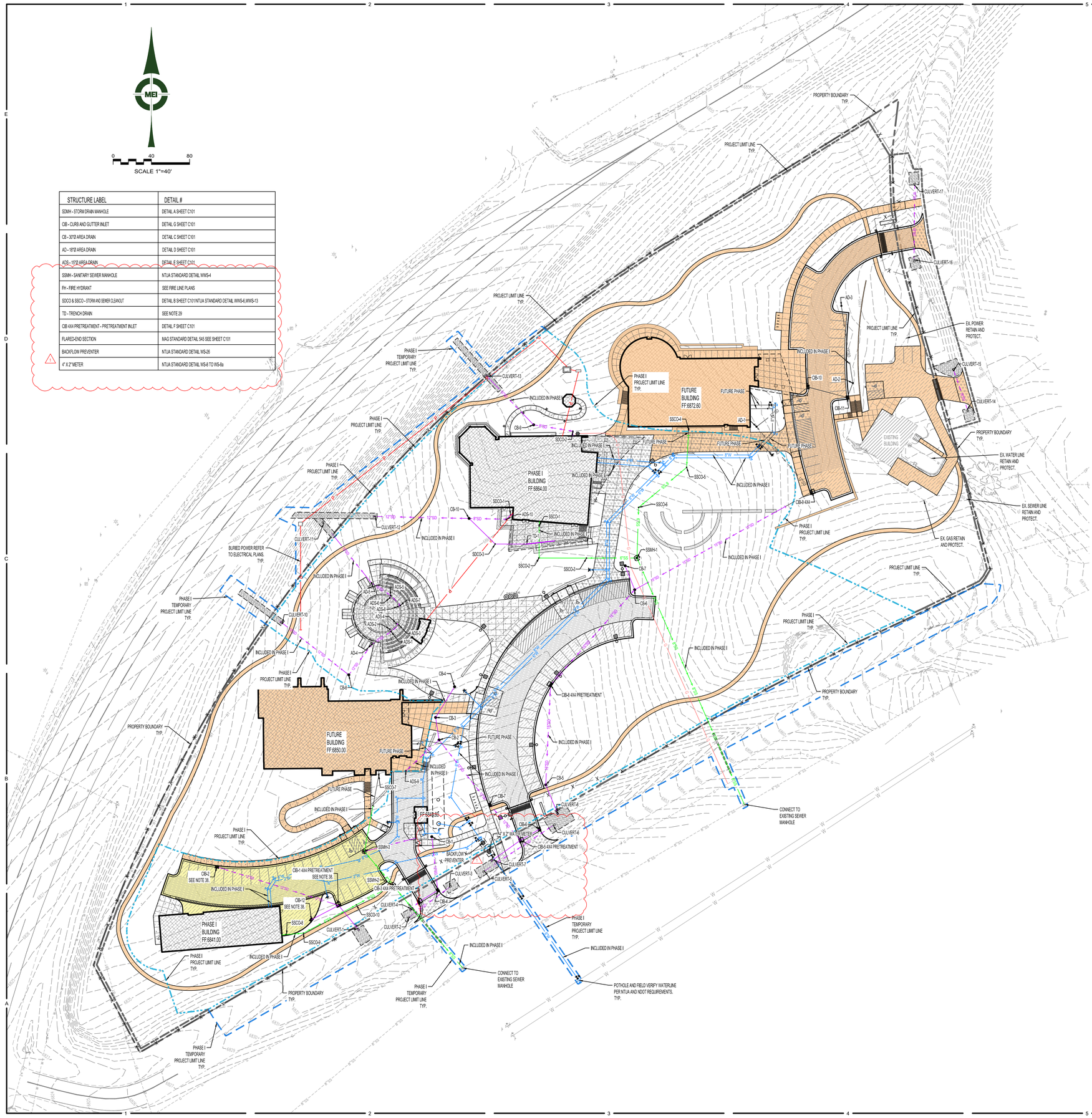
Navajo Nation, Window Rock AZ

CONSTRUCTION DOCUMENTS

UTILITY DETAILS

C105

NAVAJO TRIBAL UTILITY AUTHORITY
CALL BEFORE YOU DIG
928-729-5721



STRUCTURE LABEL	DETAIL #
SDMH - STORM DRAIN MANHOLE	DETAIL A SHEET C101
CB - CURB AND GUTTER INLET	DETAIL G SHEET C101
CB - 30"Ø AREA DRAIN	DETAIL C SHEET C101
AD - 18"Ø AREA DRAIN	DETAIL D SHEET C101
ADS - 15"Ø AREA DRAIN	DETAIL E SHEET C101
SSMH - SANITARY SEWER MANHOLE	NTUA STANDARD DETAIL WWS-4
FH - FIRE HYDRANT	SEE FIRE LINE PLANS
SDCO & SSCO - STORM AND SEWER CLEANOUT	DETAIL B SHEET C101/NTUA STANDARD DETAIL WWS-6,WWS-13
TD - TRENCH DRAIN	SEE NOTE 29
CIB 4X4 PRETREATMENT - PRETREATMENT INLET	DETAIL F SHEET C101
FLARED-END SECTION	MAG STANDARD DETAIL 545 SEE SHEET C101
BACKFLOW PREVENTER	NTUA STANDARD DETAIL WS-2B
4" X 2" METER	NTUA STANDARD DETAIL WS-8 TO WS-8a

GENERAL UTILITY NOTES:

1. PLUMBING CONTRACTOR WILL TERMINATE THEIR ROOF DRAIN LINES WITH A CLEAN OUT APPROXIMATELY 5' FROM THE BUILDING. COORDINATE WITH PLUMBING CONTRACTOR ON SCHEDULE AND PLACEMENT OF ROOF DRAIN LINES NEAR THE BUILDING.
2. ALIGN ALL INTERIOR AND EXTERIOR UTILITIES. SITE UTILITY CONTRACTOR TO COORDINATE PLACEMENT HORIZONTALLY AND VERTICALLY WITH BUILDING PLUMBING CONTRACTOR. SITE "INTERFACE LINE" BETWEEN THE BUILDING PLUMBING CONTRACTOR AND THE SITE UTILITY CONTRACTOR WILL BE AT 5' FROM THE BUILDING AND (EXCEPT FOR THE FIRE SPRINKLER LINE) A CLEAN OUT WILL BE INSTALLED BY THE PLUMBING CONTRACTOR APPROXIMATELY 5' FROM THE BUILDING FOR STORM DRAIN AND SEWER LINES. CONNECTION TO BUILDING PIPING AND ALL PIPING BEYOND THIS INTERFACE SHALL BE THE SITE UTILITY CONTRACTOR'S RESPONSIBILITY. PROVIDE REDUCERS, ADAPTERS, OR OTHER FITTINGS AS REQUIRED AT THE INTERFACE TO CONNECT TO BUILDING PIPE. COLLECT ROOF DRAIN LINES AS SHOWN AND ROUTE TO NEW CATCH BASINS OR CLEAN OUTS ON SITE. PREFERRED SLOPES, APPROXIMATE DISTANCES, AND INVERTS OF GRAVITY PIPING ARE SHOWN ON THE PLAN MAY REQUIRE ADJUSTMENT TO CONNECT TO BUILDING ROOF OR SEWER DRAIN LINES. MAINTAIN 2% SLOPE FOR 4" DIAMETER OR SMALLER PIPES, 1% FOR 6" AND 0.5% FOR 8" DIAMETER PIPES.
3. ALL PROPOSED SITE ELECTRICAL EQUIPMENT STRUCTURES AND LINES SHOWN ON CIVIL PLANS ARE SCHEMATICALLY SHOWN ONLY AS A COORDINATION BETWEEN ELECTRICAL AND CIVIL. PLEASE REFER DIRECTLY TO ELECTRICAL PLANS FOR THE LAYOUT AND DETAILS OF ALL SITE ELECTRICAL EQUIPMENT AND LINES.
4. SITE CONTRACTOR SHALL COORDINATE WITH NTUA WHEN COMPLETING THE SEWER, WATER OR OTHER UTILITY CONNECTION.
5. ALL CONSTRUCTION IN THE CULINARY WATERLINE AND SANITARY SEWER LINE PIPE ZONE SHALL COMPLY WITH ALL NAVAJO TRIBAL UTILITY AUTHORITY SPECIFICATIONS AND REQUIREMENTS. SEE GENERAL NOTES ON SHEET C100. WHERE THRUST BLOCKING CANNOT BE COMPLETED DUE TO OTHER ADJACENT UTILITIES OR OTHER SITE CONSTRAINTS, RESTRAINED JOINTS WILL BE REQUIRED PER NTUA STANDARD SPECS. THRUST BLOCK ALL WATERLINE FITTINGS PER NTUA STANDARD DETAIL W-11 TYP.
6. COORDINATES FOR FIRE HYDRANTS, CURB INLETS, CATCH BASINS, OR CLEAN OUTS ARE AT THE CENTER OF THE UTILITY STRUCTURE.
7. ALL VALVES, AREA CATCH BASINS (NOT IN CAGE), CLEAN OUTS, OR MANHOLES SHALL HAVE CONCRETE GRADE ADJUSTMENT COLLARS PLACED PER DETAIL ON C100.
8. STORM DRAIN CLEAN OUTS TO BE SIMILAR TO DETAIL SHOWN ON PLUMBING PLANS AND SHALL BE EXTENDED TO GRADE. ALL EXTERIOR ROOF DRAIN PIPING TO BE CAST IRON SOIL PIPE AND FITTINGS IN ACCORDANCE WITH ASTM A 74.
9. ALL "CB" LABELS ARE 30"Ø NYLOPLAST DRAINAGE BASINS. ALL "AD" LABELS ARE 18" NYLOPLAST DRAINAGE BASINS. ALL "ADS" LABELS ARE 15" NYLOPLAST DRAINAGE BASINS (WITH SQUARE RIM AND COVERS). REFER TO DETAIL CALLOUTS IN TABLE ON THIS SHEET. ALL GRATED COVERS TO BE HEEL SAFE COVERS.
10. ALL FIRE SPRINKLER SHALL HAVE 60" MINIMUM. ALL OTHER WATERLINES INCLUDING EXISTING LINES TO HAVE 48" MINIMUM COVER. CUT IN NEW TIE CONNECTIONS TO WATER LINE CONNECTIONS. COORDINATE NEW CONNECTIONS WITH NTUA. TERMINATE WATER BUILDING SERVICE LINES IN THE MECHANICAL ROOM WITH 5' OF LINE INSTALLED ABOVE SLAB. PROVIDE 4" MINIMUM SLEEVE THROUGH THE BUILDING SLAB FOR THE BUILDING SERVICE WATER LINE.
11. ALL CONSTRUCTION, PIPING MATERIALS AND INSTALLATION TO BE:

    WATER LINES:
    - 4" AND 6" PVC AWWA C-900 (DR-18) WITH CEMENT MORTAR-LINED DUCTILE IRON PIPE FITTINGS WRAPPED IN 10 MIL. POLYETHYLENE SLEEVES PER AWWA C-105 AND PER NAVAJO TRIBAL UTILITY AUTHORITY STANDARDS.
    - 2" POLYETHYLENE AWWA C901 (SDR-9). CONFORM TO NAVAJO TRIBAL UTILITY AUTHORITY STANDARDS.

    FIRE SERVICE LINES:
    - ALL FIRE SERVICE LINES SPECIFIED ON SHEETS FP100-FP502.

    SEWER LINES, MANHOLES, AND CLEANOUTS:
    - NAVAJO TRIBAL UTILITY AUTHORITY STANDARDS WITH STANDARD FITTINGS AND CLEANOUTS.
    - PVC PIPE 4" TO 8" (SDR 35).
    - MANHOLES AND CLEANOUTS PER NAVAJO TRIBAL UTILITY AUTHORITY STANDARDS.

    STORM DRAIN:
    - 12" TO 24" HDPE PIPE WITH WATER TIGHT JOINTS. WYE FITTING TO BE WATER TIGHT JOINTS.
    - MAG FLARED END SECTIONS REQUIRED ON ALL DAYLIGHTING PIPES. RIPRAP REQUIRED AT ALL DAYLIGHTING PIPES. REFER TO CG450 AND C101.

    ROOF DRAIN PIPING:
    - 4" TO 8" PVC (SDR 35).

    GAS LINE:
    - UAC 2000 MDPE YELLOW GAS PIPE SDR-11 PER ASTM D2513 PIPE ZONE MATERIAL TO BE WASHED SAND. SEE NOTE 12. GAS LINE SIZE TO BE DETERMINED BY NTUA AND THE MECHANICAL ENGINEER.
12. PROJECT SHALL COMPLY WITH ALL APPLICABLE NAVAJO NATION AND FEDERAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THOSE PERTAINING TO BACKFLOW PROTECTION AND CROSS-CONNECTION PREVENTION. PROVIDE AN NTUA-APPROVED AIR GAP AT THE POTABLE WATER CONNECTION TO THE FIRE-PROTECTION STORAGE TANK. ANY NEW BACKFLOW DEVICES AND THE STOP AND WASTE VALVE ARE SHOWN ON THE LANDSCAPE DRAWINGS.
13. NEW GAS LINE SHALL BE INSTALLED BY AN NTUA APPROVED CONTRACTOR. ALL GAS LINE CONSTRUCTION TO BE IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS. A #14 (AWG) TRACER WIRE IS REQUIRED FOR ALL NEW MDPE GAS PIPING. TERMINATE GAS LINE AND TRACER WIRE AT AN ANODELESS RISER AND GAS COCK SET ABOVE GRADE TO CONNECT TO THE BUILDING REGULATOR AT EACH BUILDING AS SHOWN ON PLUMBING PLANS. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE AMERICAN GAS ASSOCIATION PLASTIC PIPE MANUAL FOR GAS SERVICE. GAS LINE TO THE METER WILL BE COMPLETED BY NTUA INCLUDING THE METER SET.
14. INSPECTION AND APPROVAL FOR THE SEWER/WATER LINE CROSSINGS ON SITE SHALL BE REVIEWED AND APPROVED BY NTUA PRIOR TO CONSTRUCTION OF THE CROSSING. NTUA SHALL ALSO INSPECT THE CROSSING PRIOR TO BACKFILL.
15. REFER TO SHEET C200 FOR PROJECT BASIS OF BEARING, BASIS OF COORDINATES AND BENCHMARK.
16. ALL UTILITIES OUTSIDE OF NDOT R.O.W. ARE PRIVATELY OWNED AND SHALL BE MAINTAINED BY OWNER UNLESS NOTED OTHERWISE.
17. POT HOLE AND FIELD VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
18. TEMPORARY PUMPING OF SANITARY SEWER MAY BE REQUIRED DURING NEW CONNECTIONS. BACKUP PUMPS AND POWER WILL BE REQUIRED WHERE PUMPING IS NECESSARY TO MAINTAIN SERVICE TO THE EXISTING LINES AT ALL TIMES DURING CONSTRUCTION.
19. USE FLOWABLE-FILL BETWEEN UTILITY CROSSINGS THAT ARE LESS THAN 12" SEPARATION. ALL GRAVITY LINES MUST BE INSTALLED BEFORE PRESSURIZED LINES.
20. PIPING LENGTHS ARE APPROXIMATE LENGTHS AND ARE ROUNDED TO THE NEAREST FOOT. LENGTHS ARE FROM CENTER TO CENTER OF INLETS OR CLEANOUTS. PIPE SLOPES ARE ALSO APPROXIMATE. USE INVERTS AT EACH BOX FOR CONTROL OF PIPE INSTALLATION.
21. ALL FIRE SPRINKLER LINES SHALL HAVE 60" OF COVER MINIMUM. ALL OTHER WATERLINES INCLUDING EXISTING LINES TO HAVE 48" MINIMUM COVER.
22. POTHOLE ALL EXISTING UTILITY CROSSINGS PRIOR TO ROUTING ANY NEW UTILITIES. ALL NEW SEWER, DRAINAGE, OR OTHER GRAVITY LINES SHALL BE COMPLETED PRIOR TO ROUTING ANY PRESSURE LINES. WHERE EXISTING UTILITIES CONFLICT WITH NEW GRAVITY LINES, RAISE OR LOWER EXISTING UTILITIES TO ACCOMMODATE NEW GRAVITY LINES. PROVIDE 12" MIN. CLEARANCE BETWEEN WATER AND OTHER UTILITIES. WATER LINES SHALL NOT BE PLACED UNDER SEWER LINES AND SHALL HAVE A MINIMUM OF 18" CLEARANCE OF SEWER.
23. THRUST BLOCK ALL FITTINGS PER NTUA STANDARD DETAIL W-11 OR PROVIDE RESTRAINED JOINTS PER NAVAJO TRIBAL UTILITY AUTHORITY STANDARDS. THE NEW 4" AND 6" CONNECTIONS TO THE NEW BUILDING WILL REQUIRE RESTRAINED JOINTS FOR MANY FITTINGS DUE TO LIMITED SPACE BETWEEN PIPES. SEE SHEET C104.
24. WATER VALVES, SEWER MANHOLES, STORM DRAIN INLETS OR CLEANOUT BOXES, AND OTHER SURFACE UTILITY ACCESSORIES SHALL BE RAISED AND SLOPED TO ACCURATE FINISH SURFACE BY A CONCRETE GRADE COLLAR IN PAVEMENT. COLLAR SHALL BE A 12" WIDE AROUND THE UTILITY APPARATUSES AND 8" MINIMUM THICKNESS. PLACE 2 #4 REBAR HOOPS IN COLLAR. REFER TO DETAIL ON SHEET C100. CONCRETE COLLARS TO BE USED IN ONLY ASPHALT PAVEMENT AREAS OR PAVER AREAS.
25. WHERE UTILITY LINES CROSS OR ARE ADJACENT TO SITE WALLS, WALL FOOTINGS, SHALL STEP BELOW UTILITIES FOR WATER AND STORM DRAIN LINES THAT DO NOT HAVE 3' OF FILL BETWEEN THE BOTTOM OF THE NORMAL WALL FOOTING DEPTH (30" DEPTH) AND THE TOP OF PIPE REFER TO DETAIL ON STRUCTURAL PLANS FOR TYPICAL FOOTING STEP DETAIL. WHERE UTILITY LINES HAVE A MINIMUM OF 3' OF FILL BETWEEN THE TOP OF PIPE AND BOTTOM WALL FOOTING THE WALL FOOTING DOES NOT NEED TO STEP BELOW THE NORMAL 30" DEPTH.
26. USE HS-20 SOLID COVERS ON ALL MANHOLES, CIB, AND CBS. AD AND ADS BOXES TO HAVE PEDESTRIAN TRAFFIC GRATED COVERS EXCEPT AS NOTED. ALL CIB BOXES TO HAVE HS-20 FRAME AND GRATES.
27. REPAIR PAVEMENT, AS WELL AS CURB AND GUTTER, AND SIDEWALKS WHERE UTILITIES CROSS INTO NDOT R.O.W. TO MAINTAIN TRAFFIC THROUGH THESE AREAS. ALL REPAIR IN NDOT R.O.W. TO MEET NDOT STANDARDS.
28. SET NEW UTILITY MANHOLE OR STRUCTURE OVER EXISTING PIPING WHERE NEW AND EXISTING PIPING CONNECT. RECONNECT ALL EXISTING PIPING TO NEW STRUCTURES. PROVIDE NEW SECTIONS OF PIPE IF NECESSARY TO RECONNECT ALL PIPING TO THE NEW UTILITY STRUCTURES.
29. THE POLYETHYLENE COMPOSITE TRENCH DRAIN DEPTH AT SHALLOW END TO BE A MINIMUM OF 6.22" DEEP. DEPTH AT THE DEEP END TO VARY BASED ON LENGTH. BUILT IN SLOPE TO BE APPROXIMATELY 1%. PROVIDE A 6"x20"x24" MINIMUM DEEP CATCH BASIN (SAME MATERIAL AS TRENCH DRAIN) FOR EACH TRENCH DRAIN WHERE THE PIPE IS SHOWN CONNECTING TO THE TRENCH DRAIN. PROVIDE A 4" OR 6" OUTLET FROM THE CATCH BASIN AS SHOWN AND EXTEND OUTLET PIPE TO DRAIN BOXES SHOWN ON PLAN. SLOPE OUTLET PIPE AT 1% MINIMUM. TRENCH GRATE TO BE A JAMISON GRATE OR APPROVED EQUAL.
30. CONTRACTOR RESPONSIBLE FOR ACQUIRING ALL NECESSARY NDOT PERMITS AND INSPECTIONS WHILE WORKING IN THE NDOT RIGHT OF WAY.
31. VALVES ATTACH DIRECTLY TO TEE FITTINGS. "FL" INDICATES FLANGE FITTING AND "MJ" INDICATED MECHANICAL JOINT FITTING. ALL VALVING WILL CONNECT TO MAIN LINE PIPE WITH FLANGE FITTING. MAIN LINE FITTINGS CONNECTING TO VALVES WILL ALSO BE FLANGE FITTINGS. WRAP AND GREASE ALL FITTINGS PER SPECIFICATIONS AND NOTES.
32. ALL WYE FITTINGS FOR STORM DRAIN PIPING TO BE FACTORY FABRICATED. WHERE MAIN PIPE IS 8" OR LARGER, USE FLOWABLE FILL 3' UPSTREAM AND DOWNSTREAM FROM ALL FITTINGS. WYE FITTINGS CONNECTING TO PIPE LARGER THAN 8" SHALL BE NEAR THE TOP OF THE MAIN STORM DRAIN PIPE. FLOWABLE FILL MAY TERMINATE 6" ABOVE THE TOP OF THE SMALLER STORM DRAIN PIPE CONNECTION TO THE MAIN PIPE. PROVIDE A MINIMUM OF 18" TOPSOIL COVER OVER TOP OF FLOWABLE FILL IN LANDSCAPE AREAS.
33. THE CONTRACTOR SHALL MAINTAIN 10 FOOT HORIZONTAL AND 18 INCH VERTICAL SEPARATION BETWEEN SANITARY SEWER AND CULINARY WATER LINES. FOLLOW NTUA STANDARDS FOR ALL WATER/SEWER CROSSINGS.
34. SPOT ELEVATION PREFIX OF 67 OR 68 HAS BEEN DROPPED FROM THE ELEVATIONS IE. ELEVATION 00.00 = 6800.00 AND 80.50 = 6880.50.
35. EXISTING UTILITIES SERVING OCCUPIED FACILITIES SHALL REMAIN OPERATIONAL. COORDINATE REQUIRED SHUTDOWNS WITH THE AFFECTED UTILITY OWNER AND PROVIDE ADVANCE NOTICE, TEMPORARY SERVICE, BYPASS PUMPING WHERE APPLICABLE, TESTING, AND RESTORATION AS REQUIRED.
36. ALL NEW UTILITY LINES INSTALLED WITHIN NDOT RIGHT-OF-WAY SHALL BE INSTALLED WITH SLEEVES IN ACCORDANCE WITH NTUA AND NDOT REQUIREMENTS. REFER TO UTILITY PROFILES FOR SLEEVE SIZE AND LOCATION.
37. SEWER PIPE INSTALLATIONS ON STEEP SLOPES SHALL PROVIDE ANCHORAGE OR OTHER STEEP-SLOPE PROTECTION WHERE REQUIRED BY NTUA REQUIREMENTS.
38. CIB-1, CIB-2 AND CIB-12 TO BE FLUSH GRATES IF ADD ALLT 1 IS NOT ACCEPTED.

NAVAJO TRIBAL UTILITY AUTHORITY CALL BEFORE YOU DIG 928-729-5721

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SALT LAKE CITY, UT 84102
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VCBO NUMBER: 25240
DATE: 08-28-2026

REGISTERED PROFESSIONAL ENGINEER (E.I.T.)
83676
JAYMIN R. HOMERS
Expires 09/30/2027
ARIZONA, U.S.A.

PERMIT SET

MERIDIAN ENGINEERING, INC.

REV	DATE	DESCRIPTION
1	11-05-2026	ADDENDUM 1

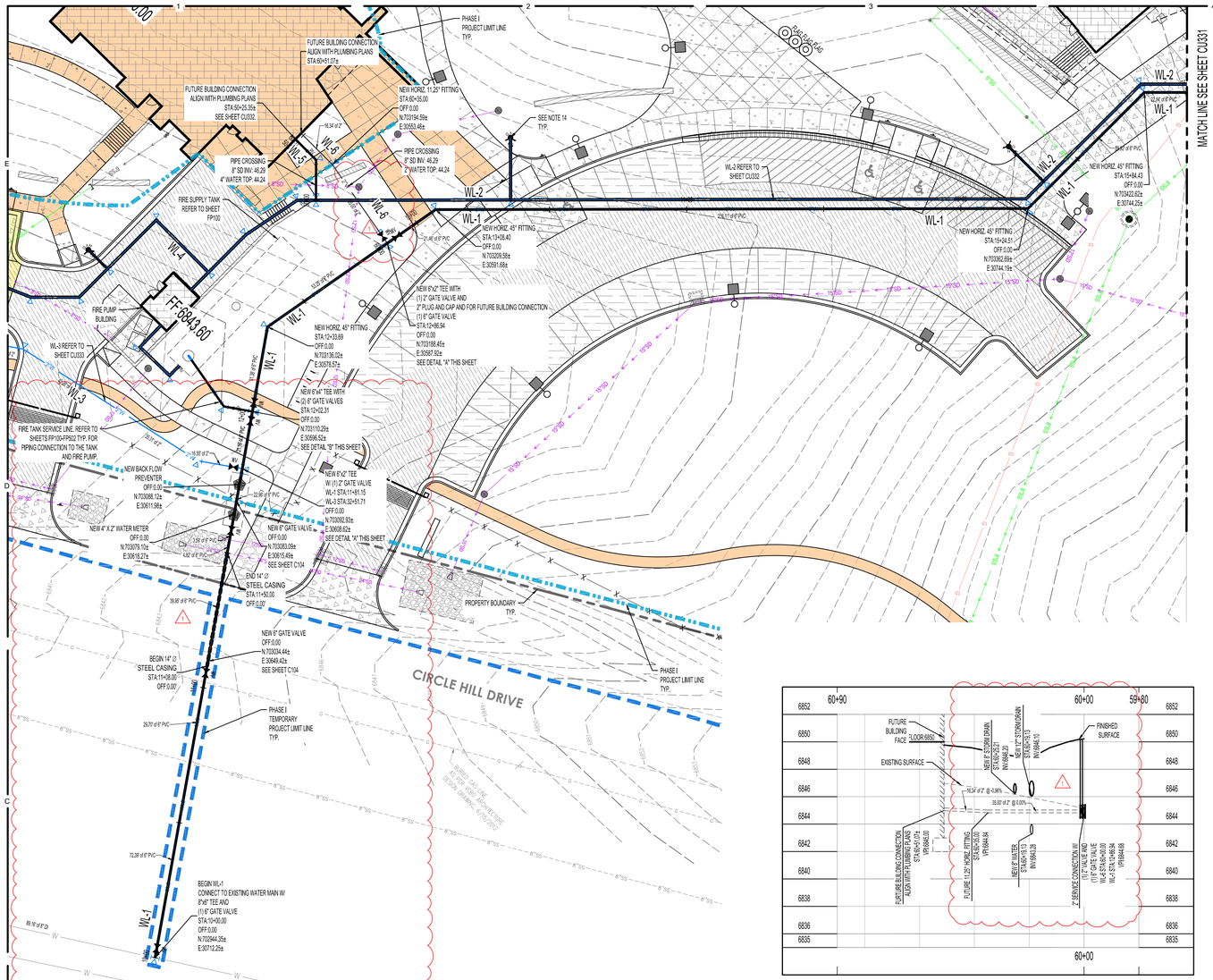
NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

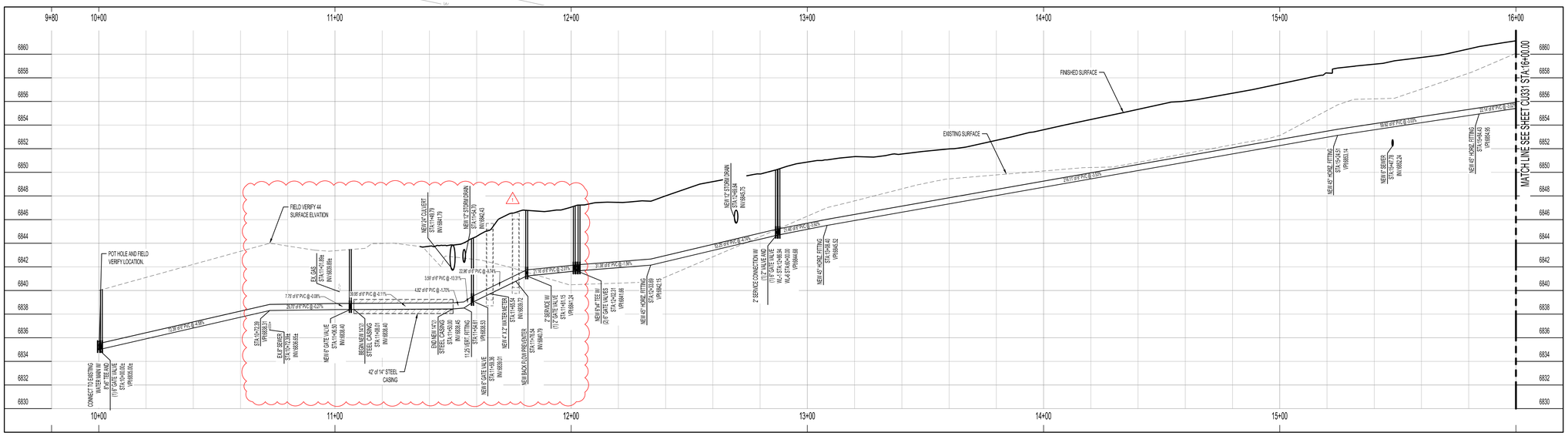
CONSTRUCTION DOCUMENTS

OVERALL UTILITY PLAN

CU300



WL-6 WATERLINE PROFILE


9+80
10+00
11+00
12+00
13+00
14+00
15+00
16+00
FIELD VERIFY 44 SURFACE ELEVATION
POT HOLE AND FIELD VERIFY LOCATION.
EXISTING SURFACE
FINISHED SURFACE
MATCH LINE SEE SHEET CU331 STA:16+00.00
CONNECT TO EXISTING WATER MAIN W/ 8"x8" TEE AND (1) 6" GATE VALVE STA:10+00.00 VPI:6835.61
42' of 14" STEEL CASING
NEW 6" GATE VALVE STA:11+08.36 INV:6838.01
NEW 4" X 2" WATER METER STA:11+68.54 INV:6839.72
NEW 6"x2" TEE W/ (2) 2" GATE VALVES STA:11+81.15 VPI:6844.25
NEW 6"x4" TEE W/ (2) 2" GATE VALVES STA:12+02.34 VPI:6844.66
NEW 6" GATE VALVE STA:11+50.00 VPI:6838.53
NEW 11.25° HORIZ. FITTING STA:11+68.40 VPI:6838.53
NEW 6" GATE VALVE STA:11+68.40 INV:6838.40
NEW 6" GATE VALVE STA:11+68.55 INV:6838.55
BEGIN 14" Ø STEEL CASING STA:11+08.00 INV:6838.40
EX 6" SERVICES STA:10+72.09 VPI:6835.51
EX 6" SERVICES STA:10+72.09 INV:6835.61
EX 8" GAS STA:11+41.88± INV:6839.88±
NEW 12" STORM DRAIN STA:11+26.00 INV:6842.43
NEW 12" STORM DRAIN STA:11+26.00 INV:6842.75
NEW 6" CAP AT FUTURE USE STA:11+68.36 INV:6844.75
NEW 12" STORM DRAIN STA:11+73.34 INV:6842.63
NEW 6" SEWER STA:14+34.37 INV:6845.24
NEW 6" SEWER STA:14+34.37 INV:6845.34
NEW 45° HORIZ. FITTING STA:13+08.40 VPI:6844.68
NEW 45° HORIZ. FITTING STA:14+34.37 VPI:6845.14
NEW 45° HORIZ. FITTING STA:15+04.51 VPI:6844.43
2" SERVICE CONNECTION W/ (1) 2" VALVE AND (1) 6" GATE VALVE WL-3 STA:12+98.94 VPI:6844.68
NEW 45° HORIZ. FITTING STA:13+08.40 VPI:6844.68
NEW 45° HORIZ. FITTING STA:14+34.37 VPI:6844.52
NEW 6" TEE W/ (1) 6" GATE VALVE STA:12+98.94 VPI:6844.68
NEW 6" GATE VALVE STA:11+68.36 INV:6838.01
NEW 6" GATE VALVE STA:11+68.55 INV:6838.55
NEW 6" GATE VALVE STA:11+50.00 INV:6838.40
NEW 6" GATE VALVE STA:11+68.40 INV:6838.40
NEW 6" GATE VALVE STA:11+68.54 INV:6839.72
NEW 6" GATE VALVE STA:11+73.34 INV:6840.03
NEW 6" GATE VALVE STA:11+81.15 VPI:6844.25
NEW 6" GATE VALVE STA:12+02.34 VPI:6844.66
NEW 6" GATE VALVE STA:12+98.94 VPI:6844.68
NEW 6" GATE VALVE STA:14+34.37 VPI:6845.14
NEW 6" GATE VALVE STA:14+34.37 INV:6845.24
NEW 6" GATE VALVE STA:15+04.51 VPI:6844.43
NEW 6" GATE VALVE STA:15+84.43 VPI:6844.68
NEW 6" GATE VALVE STA:16+00.00 VPI:6844.68
NEW 6" GATE VALVE STA:16+00.00 INV:6844.68
NEW 6" GATE VALVE STA:16+00.00 INV:6844.78
NEW 6" GATE VALVE STA:16+00.00 INV:6844.88
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NEW 6" GATE VALVE STA:16+00.00 INV:6845.08
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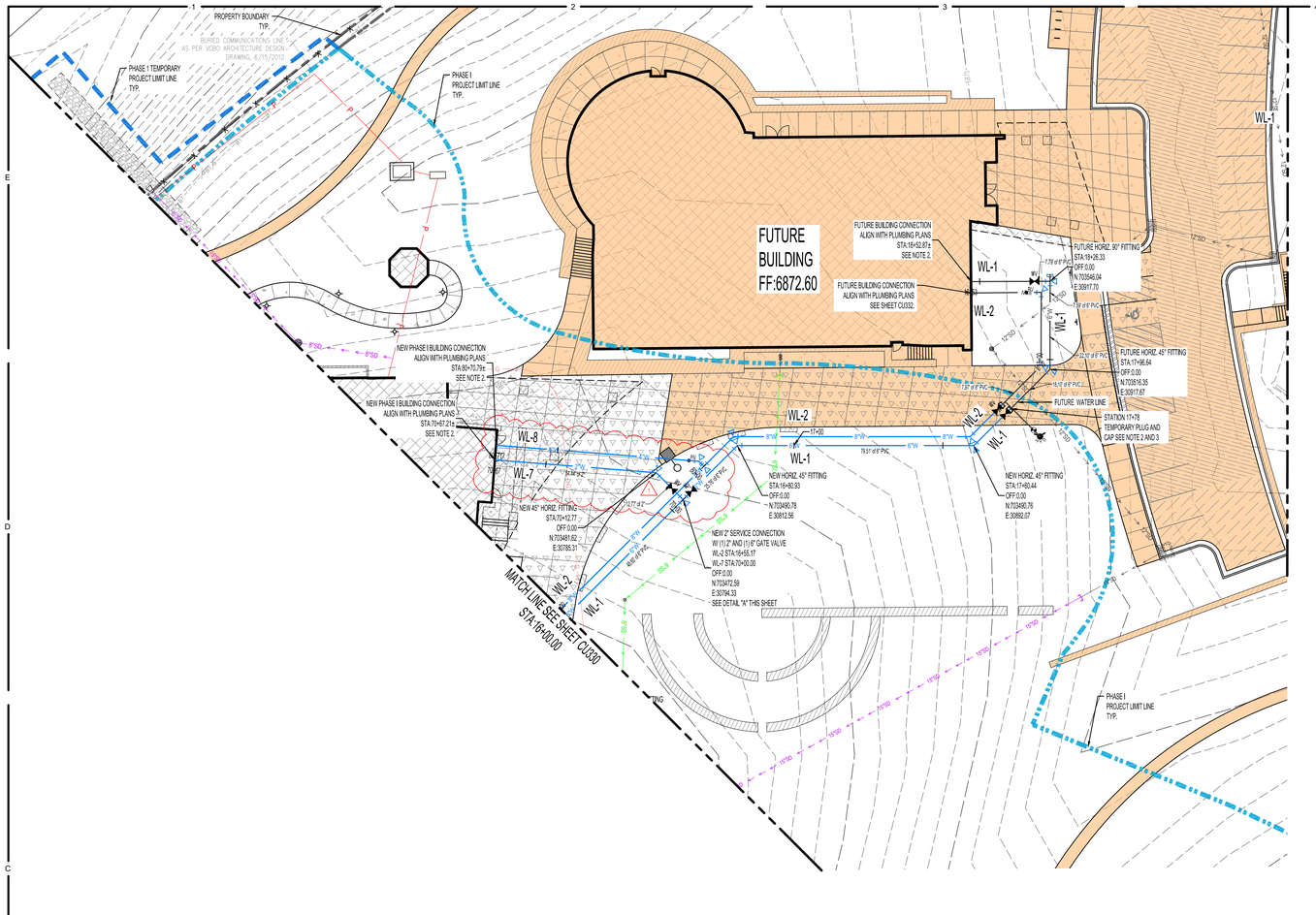
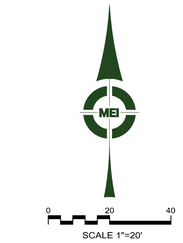
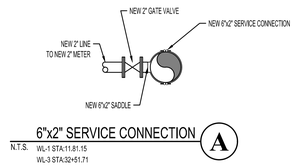
NEW 6" GATE VALVE STA:16+00.00



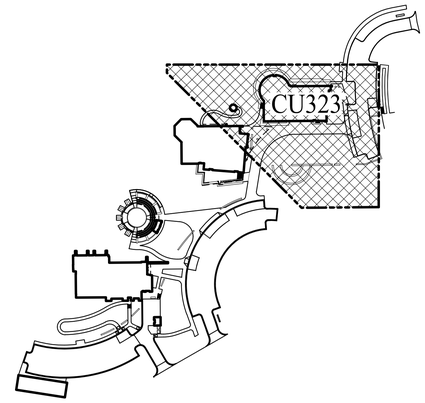




6"x2" SERVICE CONNECTION (A)

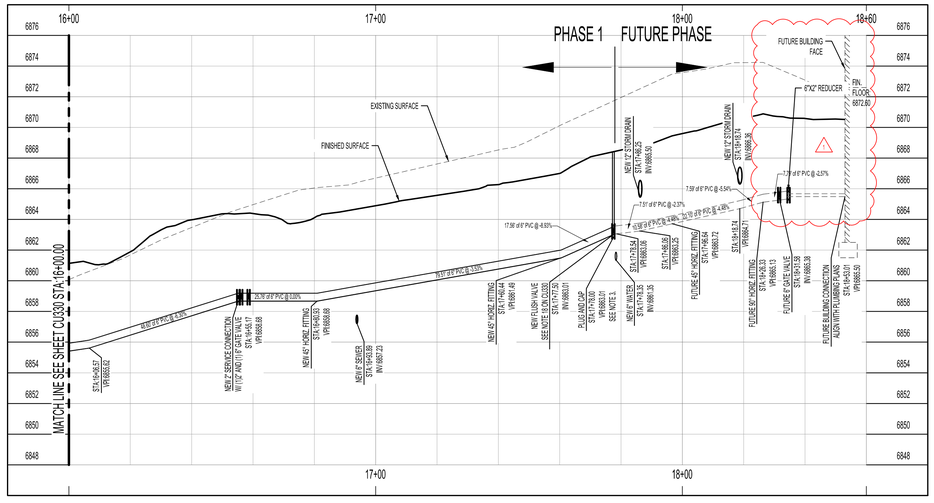
N.T.S. WL-1 STA:11.81.15
WL-3 STA:32+51.71

VICINITY MAP



NOTES:

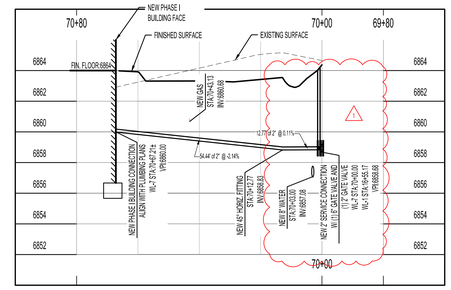
1. REFER TO NOTES ON SHEETS CU300 AND CU330.
2. EXTEND BUILDING SERVICE LINE INTO BUILDING AS NOTED ON CU300
3. PROVIDE TEMPORARY PLUG AND CAP OF LINE AT STATION 17+78 TO END PIPE INSTALLATION FOR PHASE I. AFTER TESTING OF PIPE, CLOSE VALVE NEAR STATION 18+45 AND LEAVE PIPE EMPTY BETWEEN THE VALVE NEAR STA 18+45 AND THE TEMP CAP AT 17+78. ALL WORK BEYOND STATION 17+78 WILL BE COMPLETED IN A FUTURE PHASE. REFER TO SPEC SECTION 33 0110.58 FOR DISINFECTION AND CLEANING OF ALL WATER PIPING.



WL-1 WATERLINE PROFILE

HORIZONTAL SCALE
0 20 40
SCALE 1"=20'

VERTICAL SCALE
0 4 8
SCALE 1"=4'



WL-7 WATERLINE PROFILE

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DATE: 08-28-2026

REGISTERED PROFESSIONAL ENGINEER (CIVIL) JAYMIN R. HOEERS 83676 ARIZONA U.S.A.

PERMIT SET

MERIDIAN ENGINEERING, INC.

REV	DATE	DESCRIPTION
1	11-09-2026	ADDENDUM 1

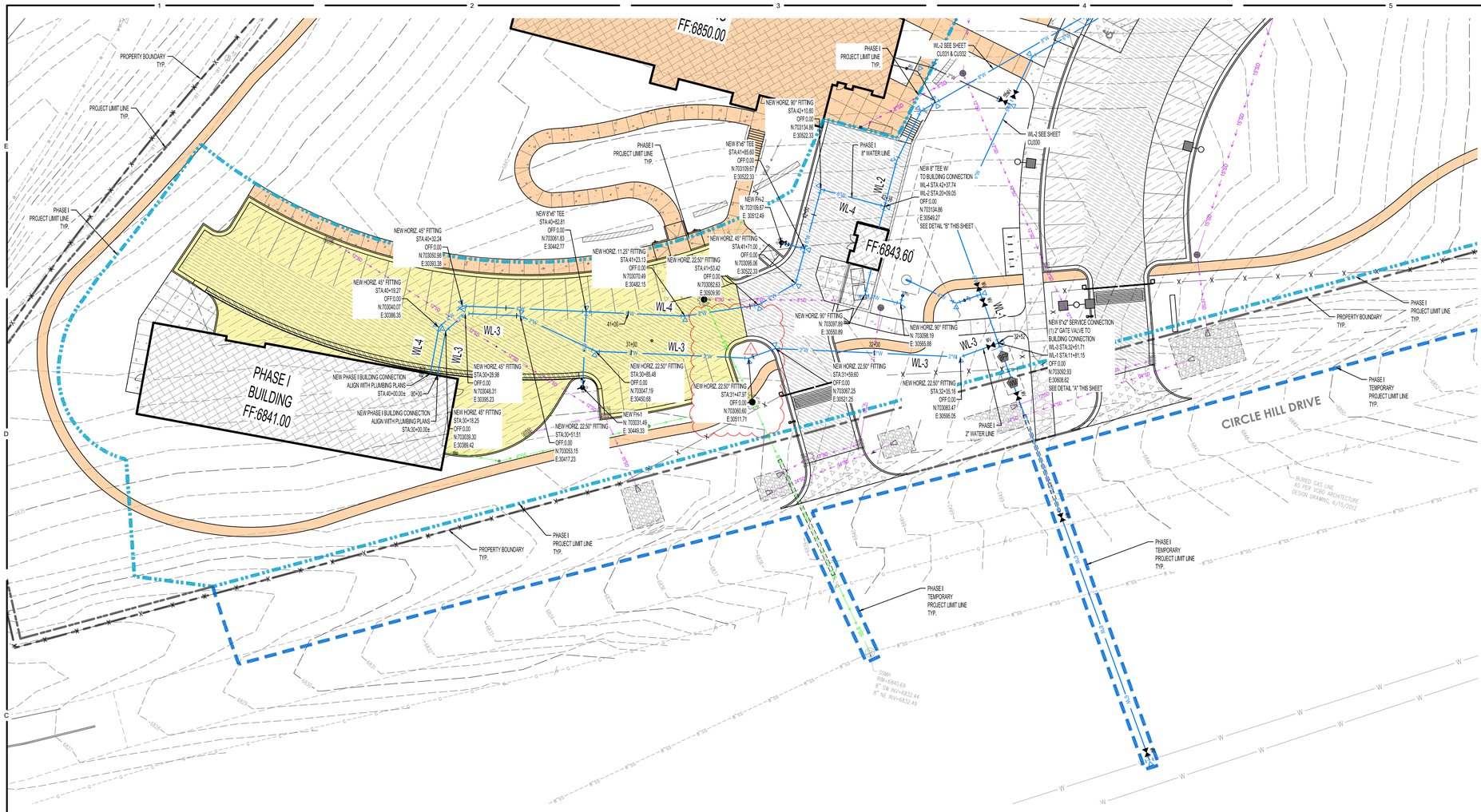
NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

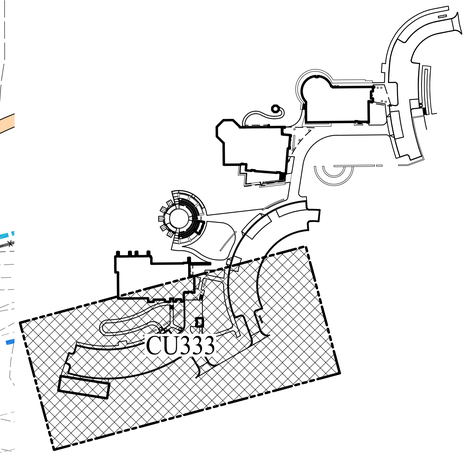
CONSTRUCTION DOCUMENTS

WATER PLAN & PROFILE

CU331



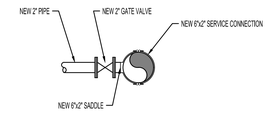
VICINITY MAP



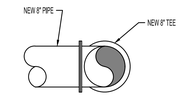
NOTES:

1. REFER TO NOTES ON SHEETS CU300 AND CU330.
2. A RADIUS MAY BE USED IN LIEU OF FITTINGS ON THE 2" POLY LINE. RADIUS TO MEET THE MINIMUM REQUIRED BY THE PIPE MANUFACTURER.
3. 2" FLUSH VALVE PER NTUA DETAIL WS-11 ON SHEET C104.

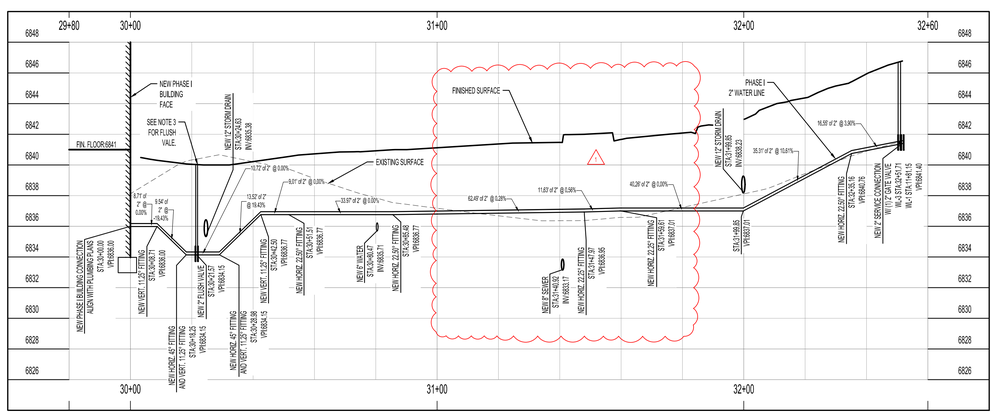
0 20 40
SCALE 1"=20'



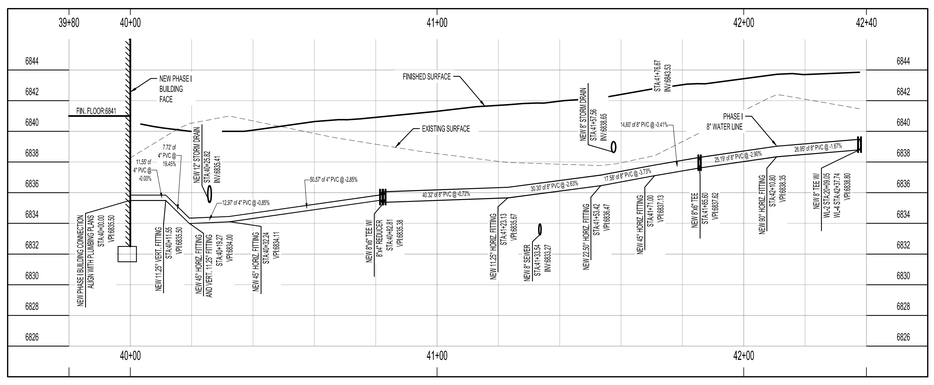
6"x2" SERVICE CONNECTION (A)
N.T.S. WL-1 STA:11+81.15
WL-3 STA:32+51.71



8" TEE DETAIL (B)
N.T.S. WL-2 STA:20+09.05
WL-4 STA:42+37.74



WL-3 WATERLINE PROFILE



WL-4 WATERLINE PROFILE

HORIZONTAL SCALE
0 20 40
SCALE 1"=20'
VERTICAL SCALE
0 4 8
SCALE 1"=4'

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63676
JAYMIN R. HOKERS
Expires 09/30/2027
ARIZONA, U.S.A.
PERMIT SET

MEI
MERIDIAN ENGINEERING, INC.

REV	DATE	DESCRIPTION
1	11-05-2026	ADDENDUM 1

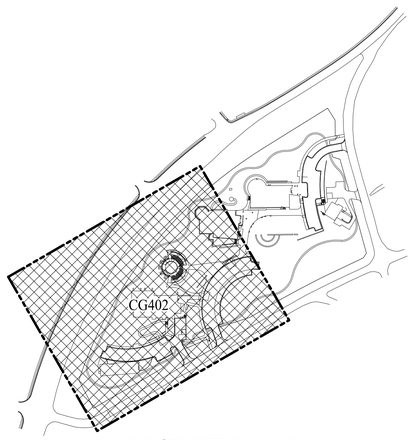
NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

CONSTRUCTION DOCUMENTS

WATER PLAN & PROFILE

CU333



VICINITY MAP

GRADING LEGEND

- 6840 — MAJOR CONTOUR
- 6842 — MINOR CONTOUR
- HALF FOOT CONTOUR

SCALE 1"=20'

ENLARGED GRADING PLAN NOTES:

1. REFER TO SHEET CG400 FOR GENERAL GRADING PLAN NOTES.

ADD ALT #1

INCLUDES ASPHALT, CURB AND GUTTER, STORM DRAIN BOXES AND STORM DRAIN PIPING IN PARKING LOT. BASE BID TO HAVE 8" OF UNTREATED BASE COURSE AND 4" OF GRAVEL DURING PHASE 1.

PHASE I BUILDING FF:6841.00

FUTURE BUILDING FF:6850.00

PHASE I BUILDING FF:6843.60

PHASE I TEMPORARY PROJECT LIMIT LINE TYP.

PHASE I PROJECT LIMIT LINE TYP.

PROJECT LIMIT LINE TYP.

PHASE BOUNDARY LINE TYP.

3:1 SLOPE FOR TEMPORARY GRADE FROM THE FL TO THE SOUTH SOUTHWEST TO MATCH EXISTING

PHASE I GRADE DRAINAGE SWALE ALONG BACK OF WALL STARTING AT 49.35'2' IN BACK OF WALL.

PHASE I FLOWLINE 44.50

PHASE I SWALE TO DAYLIGHT EX GRADE 49.00

FUTURE PHASE SIDEWALK. REFER TO CS230 FOR IMPROVEMENTS IN PHASES.

SIDEWALK NOT INCLUDED IN PHASE 1. REFER TO SITE PLAN FOR ADDITIONAL NOTES.

SHOWING ADD ALTERNATE #1. INCLUDES ASPHALT, CURB AND GUTTER AND STORM DRAIN BOXES IN PARKING LOT. BASE BID TO HAVE GRAVEL DURING PHASE 1.

MATCH LINE SEE SHEET CG401

CIRCLE HILL DRIVE

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DATE: 08-28-2026

REGISTERED PROFESSIONAL ENGINEER (CIVIL) — 83676 JAYMIN R. FLOWERS — ARIZONA, U.S.A.

PERMIT SET

MERIDIAN ENGINEERING, INC.

REV	DATE	DESCRIPTION
1	11-05-2026	ADDENDUM 1

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

CONSTRUCTION DOCUMENTS

ENLARGED GRADING PLAN

CG402

Memorandum

MERIDIAN ENGINEERING, INC.

To: Philip Haderlie -VCBO Architecture
From: Jason Fellows – Meridian Engineering, Inc.

Date: November 10, 2026
Re: Navajo Nation Peacekeeping Administration Building
Subject: Addendum #1

Memo

Attached are the Plan modifications for Addendum #1, which consists of the following modifications to the attached Drawings and Specifications:

Drawings:

Sheet C104- Refer to the Attached Sheets:
1- Added and removed details to the sheet.

Sheet C105- Refer to the Attached Sheets:
1- Added sheet with new details.

Sheet CU300– Refer to the Attached Sheet.
1- Updated callouts for water structures.

Sheet CU330 - Refer to the Attached Sheets:
1- Updated location for Water meter and Backflow preventer.
2- Updated profile for WL-1.
3- Removed 2" Water Meter.

Sheet CU331– Refer to the Attached Sheet.
1- Removed 2" Water Meter.

Sheet CU333– Refer to the Attached Sheet.
1- Removed 2" Water Meter.

Sheet CG402– Refer to the Attached Sheet.
1- Updated grades around new backflow preventer.

Meridian Engineering, Inc.
1628 West 11010 South, Suite 102 • South Jordan, Utah 84095
Phone: 801.569.1315 • Fax: 801.569.1319

25240 - NAVAJO NATION PEACEMAKING BUILDING & AMPITHEATER

Addendum **EADD-1.0**

Reason: Bidding

Date: **Wed November 11, 2026**

ADDENDUM 001

See attached revised drawings to address recent plan check comments and questions from bidders.

Per the request of some of the bidders, we have shifted the due date for the bid submission to December 2 @ 4:00 PM MST,

The owner has confirmed that there will be a public bid opening on December 3, 2026 at 10am Mountain Standard Time at the AOC office, 7968A Window Rock Blvd., Window Rock, AZ 86515

Electrical:

E120.3 BUILDING B LIGHTING PLAN
11/11/2026

E500.1 ELECTRICAL DETAILS
11/11/2026

E600.1 ONE-LINE DIAGRAM
11/11/2026

E600.2 BUILDING B GROUNDING & COMMUNICATIONS DISTRIBUTION RISER DIAGRAM
11/11/2026

E600.3 AMPHITHEATER GROUNDING DIAGRAM
11/11/2026

E600.4 ELECTRICAL SCHEDULES
11/11/2026

E600.5 ELECTRICAL SCHEDULES
11/11/2026

E600.6 LIGHT FIXTURE & LIGHTING CONTROL SCHEDULES
11/11/2026

ES100.1 OVERALL ELECTRICAL SITE PLAN
11/11/2026

END OF EADD-1.0

Issued By: **Electrical Consulting Engineers (ECE):** G. Calvin Yardley — G. Calvin Yardley — Nov 09 2026 05:30 PM

cc:

Akbar Matinkhah	Electrical Consulting Engineers (ECE)	akbar@eceonline.com
G. Calvin Yardley	Electrical Consulting Engineers (ECE)	calviny@eceonline.com
Jaymin Vickers	Meridian Engineering Inc	jvickers@meiamerica.com
Andy Thomas	Navajo Nation	andy.thomas@navajo-nsn.gov
Alan Heinrich	VCBO Architecture	aheinrich@vcbo.com
Alex Stavron	VCBO Architecture	astavron@vcbo.com

Philip Haderlie VCBO Architecture phaderlie@vcbo.com
Stephanie Rodriguez VCBO Architecture srodriguez@vcbo.com

Navajo Nation Peacemaking Administration Building

Phil Haderlie
VCBO

Addendum #01
November 11th, 2026

Sheet E120.3: Building B Lighting Plan

1. Circuit numbers were updated.

Sheet E500.1: Electrical Details

1. Bollard Mounting Detail was added.

Sheet E600.1: One-Line Diagram

1. Ground Wire on the Utility Transformer Secondary side was removed per NUTA comments.
2. All conductors were changed to copper and wire sizes were adjusted accordingly.
3. SWGR 'A' was changed to 600 A.
4. Circuit Breaker in Section 2 of Panel LP-2 was removed.
5. Ground for the Transformer in the Combination Panel LP-E was added.

Sheet E600.2: Building B Grounding & Communications Distribution Riser Diagram

1. Grounding Wire on the secondary of the Utility Transformer was removed per NUTA comments.
2. Ground rods were added to the Main Grounding Electrode Ground Bar.
3. Reference numbering was updated.

Sheet E600.3: Amphitheater Grounding Diagram

1. Grounding diagram was updated to reflect the power single line diagram.
2. Reference numbering was updated.

Sheet E600.4: Electrical Schedules

1. Circuiting on Panel HP-B was updated.

Sheet E600.5: Electrical Schedules

1. Panel: SWGR-A
    a. Main and MCB Rating was changed to 600 Amp.
    b. Circuit for the Future Storage Shed was added.

2. Future Panel: SWGR-B
    a. 200 Amp Spare was added.

Sheet E600.6: Light Fixture & Lighting Control Schedules

1. Light Fixture “BO” was added.

Sheet ES100.1: Overall Electrical Site Plan

1. Fixtures “BO” were added to the Site Lighting Circuit.

LIGHTING RELAY PANEL SCHEDULE LCP-B

RELAY NUMBER	AREA SERVED	LIGHTING CIRCUIT NO.	VOLTS	METHOD OF CONTROL
1	S.E. PARKING	HP-B-20	277	ON PHOTOCELL/OFF PROGRAM
2	FLAG POLES	HP-B-	277	ON PHOTOCELL/OFF PHOTOCELL
3	LOBBY	HP-B-4	277	PROGRAM ON/OFF SWITCH OVERIDE
4	PEACE MAKING ROOM a	HP-B-8	277	PROGRAM ON/OFF SWITCH OVERIDE
5	PEACE MAKING ROOM b	HP-B-33	277	PROGRAM ON/OFF SWITCH OVERIDE
6	PEACE MAKING ROOM c	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
7	PEACE MAKING ROOM d	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
8	PEACE MAKING ROOM e	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
9	PEACE MAKING ROOM f	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
10	PEACE MAKING ROOM g	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
11	PEACE MAKING ROOM h	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
12	PEACE MAKING ROOM i	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
13	PEACE MAKING ROOM j	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
14	PEACE MAKING ROOM k	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
15	PEACE MAKING ROOM l	HP-B-	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
16	PEACE MAKING ROOM m	LP-B-52	120	REMOTE CONTROL ON/OFF, RAISE CONTROL
17	PEACE MAKING ROOM SCONCE n	HP-B-33	277	REMOTE CONTROL ON/OFF, RAISE CONTROL
18	EXTERIOR LIGHTING	HP-B-16	277	ON PHOTOCELL/OFF PROGRAM SWITCH OVERIDES
19	PATIO LIGHTING	HP-B-14	277	ON PHOTOCELL/OFF PROGRAM SWITCH OVERIDES
20	PATIO LIGHTING EXTERIOR	HP-B-14	277	ON PHOTOCELL/OFF PROGRAM SWITCH OVERIDES
21	SPARE		277	
22	SPARE		277	
23	SPARE		277	
24	SPARE		277	
25	SPARE		277	
26	SPARE		277	
27	SPARE		277	
28	SPARE		277	
29	SPARE		277	
30	SPACE		277	
31	SPACE		277	

NOTES:

1. PANEL SHALL HAVE A SELF CALIBRATING ASTRONOMICAL CLOCK.
2. PANEL SHALL HAVE A DIGITAL DISPLAY AND PROGRAMMING INTERFACE.
3. PANEL SHALL HAVE A NON-VOLITILE PROGRAMMING MEMORY.
4. PANEL SHALL BE TIED TO THE BUILDING'S EXTERNAL PHOTOCELL.
5. ALL RELAYS SHALL BE N.O./N.C.
6. WIRING FOR LOW VOLTAGE CONTROL SHALL BE A CAT-5/RJ45 OR WIRELESS. LC&D, WATTSTOPPER, LEVITON AND LUTRON ARE APPROVED MANUFACTURERS.
7. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDENTLY SUPPORTED FROM THE CEILING DECK AND SHALL NOT CONTACT ANY MECHANICAL SYSTEM.
8. ALL LOW VOLTAGE WIRING FOR THIS SYSTEM SHALL BE COLOR GREEN.
9. ALL LOW VOLTAGE WIRING SHALL HAVE LABELS INDICATING THE ORIGIN AND DESTINATION OF EACH CABLE AT THE BEGINNING AND END OF EACH RUN.
10. PROVIDE PRE-CONSTRUCTION MEETING, FACTORY START-UP AND TRAINING.

SWITCH ID: LV2

SWITCH TYPE: 2 BUTTON

BUTTON	ZONE	FUNCTION	DESCRIPTION
1	ALL	ON	2 HOUR PROGRAM OVERRIDE
2	ALL	OFF	2 HOUR PROGRAM OVERRIDE

SWITCH ID: LV3

SWITCH TYPE: 8 BUTTON

BUTTON	ZONE	FUNCTION	DESCRIPTION
1	a	RAISE	2 HOUR PROGRAM OVERRIDE TO RAISE LEVEL
2	a	LOWER	2 HOUR PROGRAM OVERRIDE TO LOWER LEVEL
3	b	RAISE	2 HOUR PROGRAM OVERRIDE TO RAISE LEVEL
4	b	LOWER	2 HOUR PROGRAM OVERRIDE TO LOWER LEVEL
5	STARS	RAISE	2 HOUR PROGRAM OVERRIDE TO RAISE LEVEL
6	STARS	LOWER	2 HOUR PROGRAM OVERRIDE TO LOWER LEVEL
7	SOLAR TUBE	OPEN	MANUAL OPEN
8	SOLAR TUBE	CLOSE	MANUAL CLOSE

SWITCH ID: LV6

SWITCH TYPE: 2 BUTTON

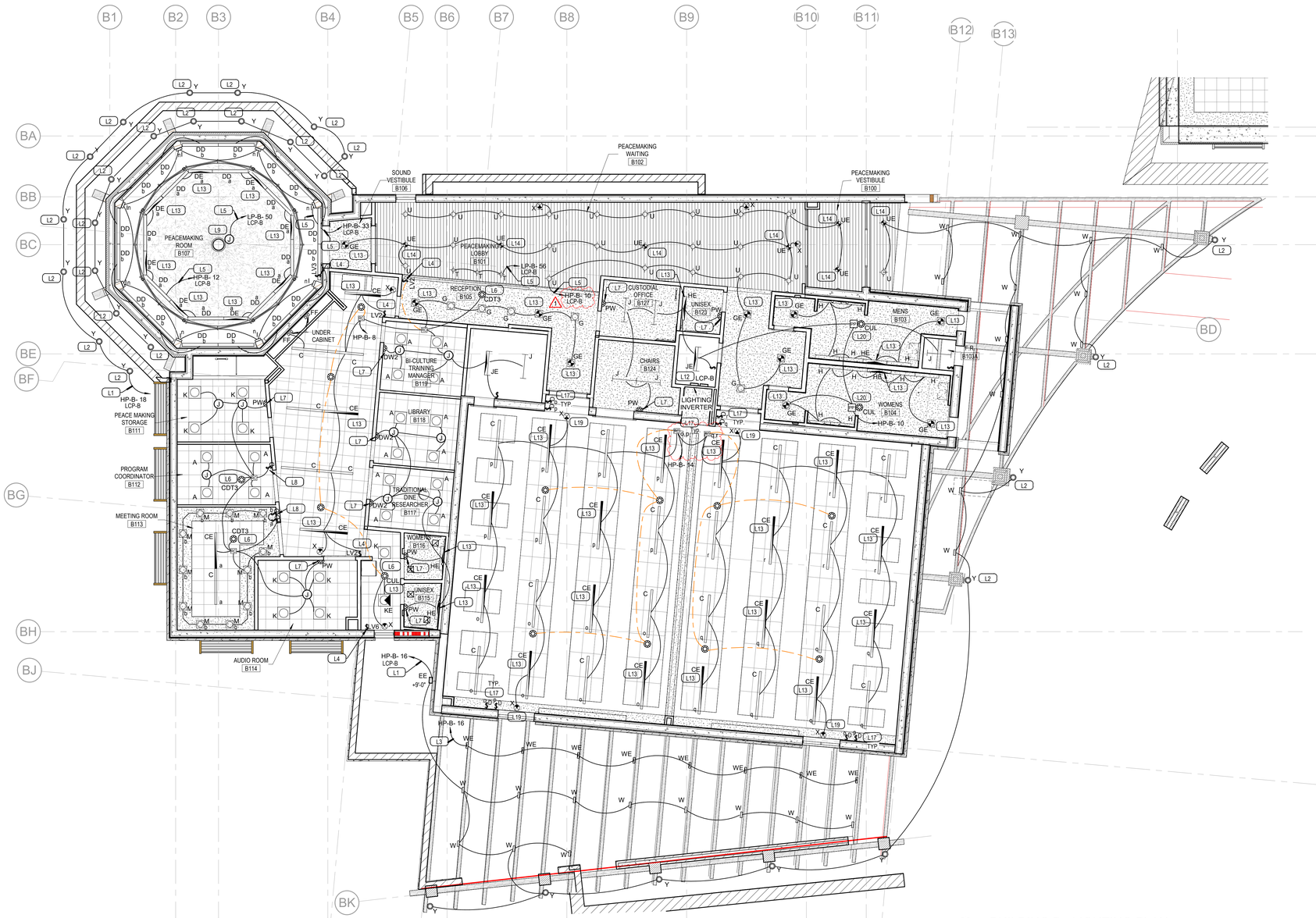
BUTTON	ZONE	FUNCTION	DESCRIPTION
1	PATIO	ON	2 HOUR PROGRAM OVERRIDE
2	PATIO	OFF	2 HOUR PROGRAM OVERRIDE

SPECIAL NOTES

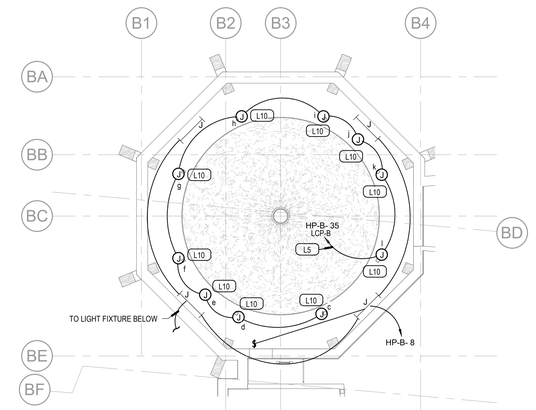
1. IN EXPOSED CEILING AREAS RUN ALL CONDUIT IN ROOF INSULATION, SEE DETAIL ON SHEET E500.2

KEYED NOTES

L1 EXTEND CIRCUIT INDICATED THRU LIGTHING CONTROL RELAY PANEL INDICATED.
L2 SEE IN-GRADE LIGHT DETAIL ON SHEET 500.2 FOR ADDITIONAL INFORMATION.
L3 TIE THE "WE" LIGHT FIXTURE TO THE 250W EXTERIOR EMERGENCY LIGHTING INVERTER (ISOLITE # ESMINI 125 LC MB) INSTALLED IN THE APPROXIMATE LOCATION SHOWN ABOVE THE CEILING. COORDINATE THE EXACT LOCATION WITH OTHER TRADES.
L4 PROVIDE LOW VOLTAGE PUSH BUTTON SWITCH. TIE TO THE LIGHTING CONTROL PANEL. REFER TO THE LOW VOLTAGE SWITCH SCHEDULE FOR ADDITIONAL INFORMATION.
L5 TIE THE LIGHTS TO CIRCUIT SHOWN THROUGH LIGHTING CONTROL PANEL INDICATED FOR AUTOMATIC CONTROL. REFER TO THE LIGHTING CONTROL RELAY SCHEDULE FOR MORE INFORMATION.
L6 PROVIDE CEILING MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIXTURES IN THE ROOM. REFER TO LIGHTING CONTROL SYSMBOLS SCHEDULE FOR ADDITIONAL INFORMATION.
L7 PROVIDE WALL MOUNTED OCCUPANCY SENSOR IN THE APPROXIMATE LOCATION SHOWN. TIE TO THE FIXTURES IN THE ROOM. REFER TO LIGHTING CONTROL SYMBOLS SCHEDULE FOR ADDITIONAL INFORMATION.
L8 PROVIDE 0-10V DIMMING SWITCH COMPATIBLE WITH OCCUPANCY SENSOR AND LED LIGHTS BEING CONTROLLED.
L9 TIE THE (4) SOLAR TUBE DIMMER TO THE CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL RELAY PANEL.
L10 FURNISH AND INSTALL (10) CUSTOM STAR CONSTELLATIONS (VISUAL LIGHTING TECHNOLOGIES #LG L20-4-9-WIW-D-MVOLT-AC-HA/R-RBL-RCP-9-SVC-HT-9-RCP-RND(300) F-MF-SF-PM-50-SVC-FT-C7) TIE EACH TO THE CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL RELAY PANEL FOR DIMMING AND REMOTE CONTROL OF THE FIXTURES.
L12 NEW LIGHTING CONTROL RELAY PANEL. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES FOR MORE INFORMATION.
L13 EMERGENCY LIGHT FIXTURE, REFER TO THE LIGHT FIXTURE SCHEDULE FOR BATTERY PACK. TIE THE BATTERY PACK TO THE UNSWITCHED LIGHTING CIRCUIT FOR AUTOMATIC OPERATION DURING POWER FAILURE.
L14 TIE THE "UE" LIGHT FIXTURE TO THE 250W INTERIOR EMERGENCY LIGHTING INVERTER (ISOLITE IMI-25-V2-IR) INSTALLED IN THE APPROXIMATE LOCATION SHOWN ABOVE THE CEILING. COORDINATE THE EXACT LOCATION WITH OTHER TRADES.
L17 FURNISH AND INSTALL DIMMABLE ROOM CONTROLLERS FOR LECTURE ROOM A & B IN ELECTRIC ROOM B120. TIE DIMMER SWITCHES TO ROOM CONTROLLERS WITH CAT5 CABLE. TIE LIGHT FIXTURES TO THE ROOM CONTROLLER. DIMMER SWITCHES SHALL BE SIZED AS REQUIRED FOR LOADS. UTILIZE LOW PROFILE, ARCHITECTURAL SLIDE TYPE DIMMER SWITCH IF POSSIBLE. SEE MANUFACTURER WIRING DIAGRAM FOR MORE INFORMATION. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.
L19 TIE THE EXIT SIGN TO THE NEAREST UNSWITCHED LIGHTING CIRCUIT. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.
L20 FURNISH AND INSTALL MOTION SENSOR WITH INTEGRAL POWER PACK TO CONTROL LIGHT FIXTURES IN THE ROOM.



A5 BUILDING B - LIGHTING PLAN
SCALE: 1/8" = 1'-0"



D5 BUILDING B CATWALK - LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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REV	DATE	DESCRIPTION
1	11/11/26	Addendum 01

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

Construction Documents

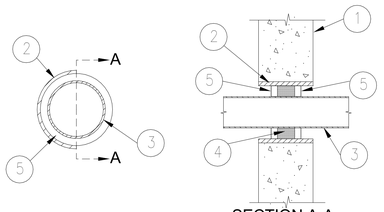
BUILDING B LIGHTING PLAN

E120.3

11/9/2026 5:22:36 PM

UL SYSTEM #C-AJ-1009

MAY 09, 2013
F RATING - 2 HR
T RATING - 0 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ. FT.
L RATING AT 400 F - LESS THAN 1 CFM/SQ. FT.



SECTION A-A
WALL ASSEMBLY

1. FLOOR OR WALL ASSEMBLY - MIN. 5 IN. (127 mm) THICK REINFORCED NORMAL WEIGHT (100-150 PCF OR 1600-2400 kg/m ^{3}) CONCRETE WALL MAY ALSO BE CONSTRUCTED BY ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX. DIAMETER OF OPENING IS 6 IN. (152mm).

   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. METALLIC SLEEVE (OPTIONAL) - NOMINAL 6 IN. (152 mm) DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING, STEEL CONDUIT OR CAST IRON PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.

3. THROUGH PENETRATIONS - ONE METALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOMINAL ANNULAR SPACE OF 3/4 IN. (19 mm) IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

   A. STEEL PIPE - NOMINAL 4 IN. (102 mm) DIAMETER (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

   B. CONDUIT - NOMINAL 4 IN. (102 mm) (OR SMALLER) DIAMETER STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

4. PACKING MATERIAL - MIN. 3 IN. (76 mm) THICKNESS OF MIN. 4 PCF (64 kg/m ^{3}) MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE CENTERED IN WALLS MID DEPTH AND RECESSED TO ALLOW FOR INSTALLATION OF FILL MATERIAL.

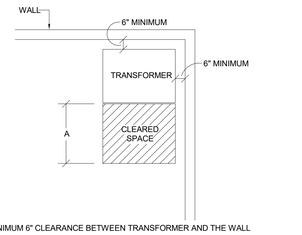
5. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN. 1/2 IN. (13 mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. IN WALLS, FILL MATERIAL TO BE APPLIED ON EACH SIDE OF PACKING MATERIAL.

   3M COMPANY - TYPES FB-1000NS, FB-1003SC (FLOORS ONLY), FB-2000 OR FB-2000+ (FLOORS ONLY).
   *BEARING THE UL CLASSIFICATION MARKING

NOTE: LABEL FIRE STOPPING MATERIALS ON BOTH SIDE OF THE PROTECTED PENETRATION TO INDICATE LEVEL OF FIRE STOPPING RATING.

SCALE: N.T.S.

TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS



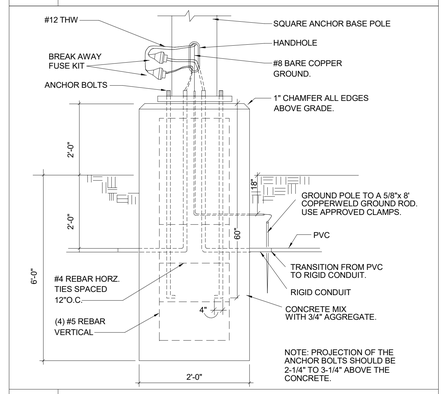
NOTE:
1. PROVIDE MINIMUM 6" CLEARANCE BETWEEN TRANSFORMER AND THE WALL
2. PROVIDE MINIMUM CLEARANCE IN FRONT OF THE TRANSFORMER AS FOLLOWS:

SYSTEM VOLTAGE	A
480	42"
208	36"

3. IF THERE ARE EXPOSED LIVE PARTS ON BOTH SIDES OF WORKING SPACE, THE MINIMUM CLEAR DISTANCES FOR 151-600V TO GROUND SHALL INCREASE FROM 42" TO 48".

SCALE: N.T.S.

TYPICAL DRY TYPE TRANSFORMER CLEARANCE DETAIL



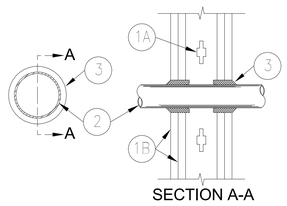
NOTE: PROJECTION OF THE ANCHOR BOLTS SHOULD BE 2-1/4" TO 3-1/4" ABOVE THE CONCRETE.

SCALE: N.T.S.

POLE BASE DETAIL

UL SYSTEM #W-L-1001

JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3 AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A-A

1. WALL ASSEMBLY - 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) O.C. WITH NOM 2 BY 4 IN. (51 BY 102MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) O.C.

   B. GYPSUM BOARD* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAM. OF OPENING IS 26 IN. (660 MM).

2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN. OF 0 IN. (0 MM) (POINT CONTRACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

   A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

   B. IRON PIPE - NOM 24 IN. (610 MM) DIAM. (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM. (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

   C. CONDUIT - NOM 6 IN. (152 MM) DIAM. (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

   D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

   E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

   F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

      I. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

      OMEGA FLEX INC.

      2. NOM 1 IN. (25 MM) DIAM. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

      TITEFLEX CORP.

      A BUNDY CO.

      3. NOM 1 IN. (25 MM) DIAM. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

      WARD MFG INC.

3. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

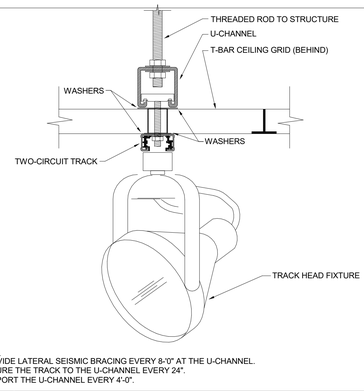
MAX PIPE OR CONDUIT DIAM IN (MM)	F RATING HR	T RATING HR
1 (25)	1 OR 2	0+, 1 OR 2
1 (25)	3 OR 4	3 OR 4
4 (102)	1 OR 2	0
6 (152)	3 OR 4	0
12 (305)	1 OR 2	0

* WHEN COPPER PIPE IS USED, T RATING IS 0 HR.
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT,
* BEARING THE UL CLASSIFICATION MARKING

NOTE: LABEL FIRE STOPPING MATERIALS ON BOTH SIDE OF THE PROTECTED PENETRATION TO INDICATE LEVEL OF FIRE STOPPING RATING.

SCALE: N.T.S.

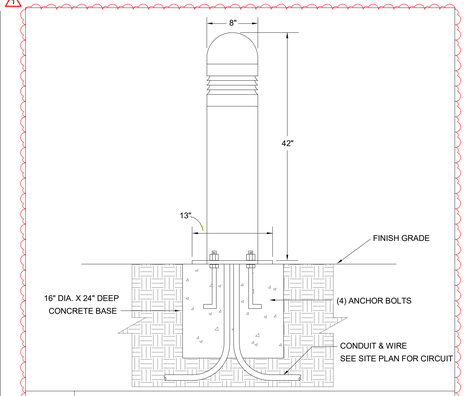
FIRESTOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD



NOTES:
1. PROVIDE LATERAL SEISMIC BRACING EVERY 8'-0" AT THE U-CHANNEL.
2. SECURE THE TRACK TO THE U-CHANNEL EVERY 24".
3. SUPPORT THE U-CHANNEL EVERY 4'-0".

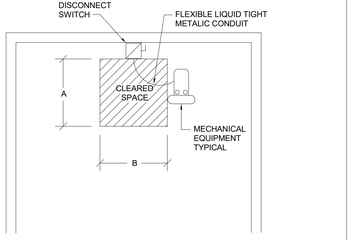
SCALE: N.T.S.

TRACK LIGHTING MOUNTING DETAIL (FOR OPEN GRID CEILINGS)



SCALE: N.T.S.

BOLLARD MOUNTING DETAIL



NOTE:
1. THE CONTRACTOR MUST COORDINATE EXACT LOCATION OF THE DISCONNECT WITH THE MECHANICAL CONTRACTOR TO ELIMINATE ANY OBSTACLE (PIPE, CONCRETE PAD, ETC.) IN FRONT OF THE DISCONNECT. IF THERE ARE ANY OBSTACLES, PROVIDE UNISTRUT AND INSTALL THE DISCONNECT NEXT TO MECHANICAL EQUIPMENT IN ORDER TO PROVIDE THE REQUIRED CLEARANCE.

2. PROVIDE MINIMUM CLEARANCE AS FOLLOWS:

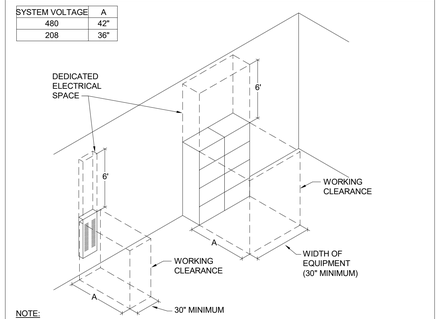
SYSTEM VOLTAGE	A	B
480	42"	30"
208	36"	30"

3. IF THERE ARE EXPOSED LIVE PARTS ON BOTH SIDES OF WORKING SPACE, THE MINIMUM CLEAR DISTANCES FOR 151-600V TO GROUND SHALL INCREASE FROM 42" TOP 48".

SCALE: N.T.S.

TYPICAL DISCONNECT CLEARANCE REQUIREMENTS

SYSTEM VOLTAGE	A
480	42"
208	36"

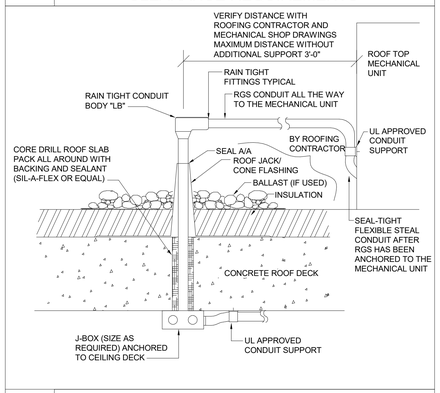


NOTE:
1. IF THE CEILING DECK IS LESS THAN 6'-0" ABOVE ELECTRICAL EQUIPMENT THEN AREA FROM EQUIPMENT TO CEILING DECK SHALL BE DEDICATED ELECTRICAL SPACE (LAY-IN DROP CEILING ARE NOT CONSIDERED AS CEILING DECK.)

2. IF THERE ARE EXPOSED LIVE PARTS ON BOTH SIDES OF WORKING SPACE, THE MINIMUM CLEAR DISTANCES FOR 151-600V TO GROUND SHALL INCREASE FROM 42" TO 48".

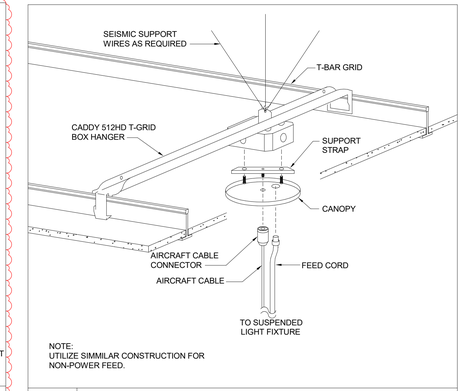
SCALE: N.T.S.

TYPICAL PANELBOARD CLEARANCE REQUIREMENTS



SCALE: N.T.S.

CONDUIT ROOF PENETRATION



NOTE:
UTILIZE SIMMILAR CONSTRUCTION FOR NON-POWER FEED.

SCALE: N.T.S.

INDIRECT LIGHT FIXTURE MOUNTING DETAIL

IF PANEL BOARD IS FEED FROM A TRANSFORMER LOCATED IN THE SAME ROOM AS THE PANEL. THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

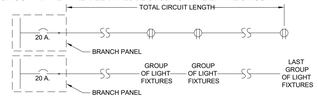
	120 VOLTS	277 VOLTS
a- USING #12 AWG	90 FT.	180 FT.
b- USING #10 AWG	150 FT.	300 FT.
c- USING #8 AWG	250 FT.	450 FT.
d- USING #6 AWG	380 FT.	700 FT.

THE ABOVE CIRCUIT LENGTHS ARE BASED ON 4% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.

IF PANELBOARD IS FEED FROM A TRANSFORMER LOCATED REMOTLY FROM THE PANEL. THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

	120 VOLTS	277 VOLTS
a- USING #12 AWG	75 FT.	180 FT.
b- USING #10 AWG	125 FT.	260 FT.
c- USING #8 AWG	205 FT.	420 FT.
d- USING #6 AWG	325 FT.	660 FT.

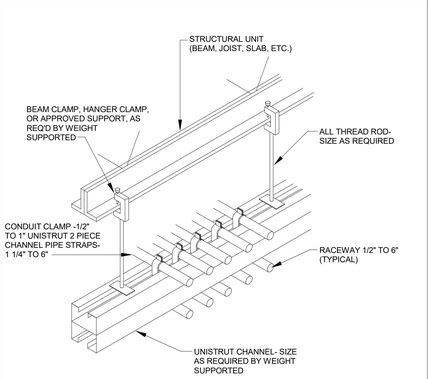
THE ABOVE CIRCUIT LENGTHS ARE BASED ON 3% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.



BRANCH CIRCUIT DEFINITION:
CIRCUIT ORIGINATING FROM A 20 AMP CIRCUIT BREAKER IN A BRANCH PANEL AND ENDING AT THE LAST DUPLEX OUTLET ON THE CIRCUIT OR ENDS AT THE LAST LIGHT FIXTURE.

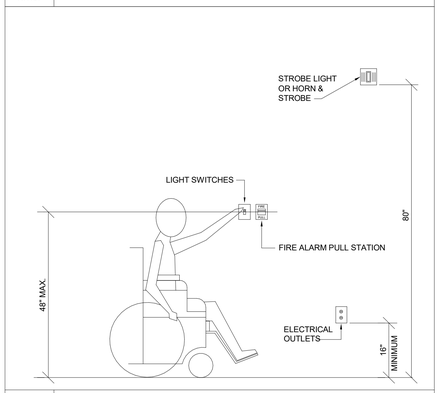
SCALE: N.T.S.

TYPICAL BRANCH CIRCUIT LENGTH DETAIL



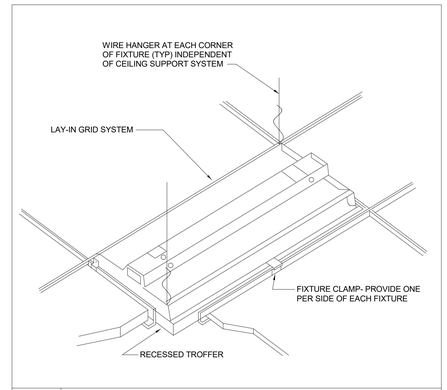
SCALE: N.T.S.

TYPICAL CONDUIT RACK DETAIL



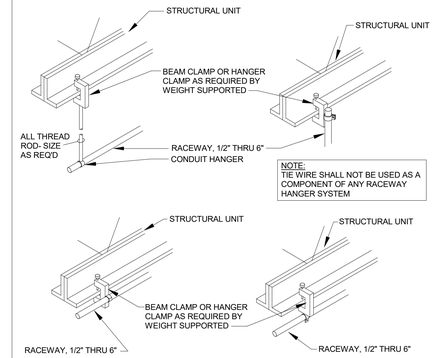
SCALE: N.T.S.

STANDARD HEIGHTS FOR HANDICAPPED ACCESS



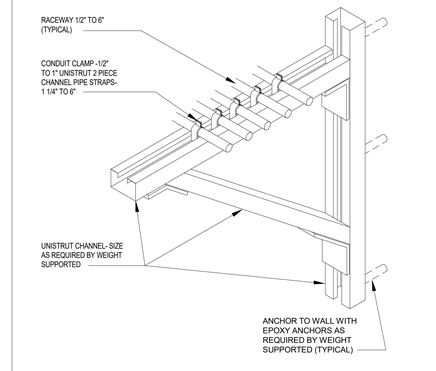
SCALE: N.T.S.

TYPICAL RECESSED FIXTURE MOUNTING DETAIL



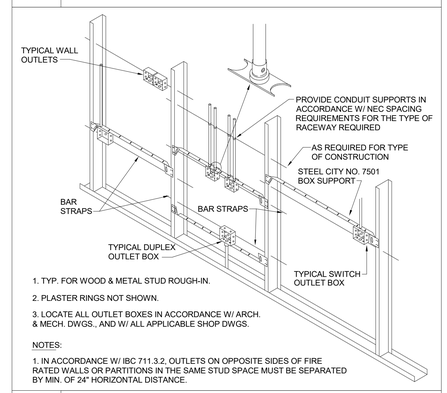
SCALE: N.T.S.

TYPICAL RACEWAY SUPPORT METHODS DETAIL



SCALE: N.T.S.

TYPICAL CONDUIT RACK DETAIL (WALL MOUNTED)



1. TYP. FOR WOOD & METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE W/ ARCH. & MECH. DWGS., AND W/ ALL APPLICABLE SHOP DWGS.

NOTES:
1. IN ACCORDANCE W/ IBC 711.3.2, OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY MIN. OF 24" HORIZONTAL DISTANCE.

SCALE: N.T.S.

TYPICAL ROUGH-IN REQUIREMENTS DETAIL

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VCBO NUMBER: 10115
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ECE Project # 6072

REV	DATE	DESCRIPTION
1	11/11/26	Addendum 01

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

Construction Documents

ELECTRICAL DETAILS

E500.1

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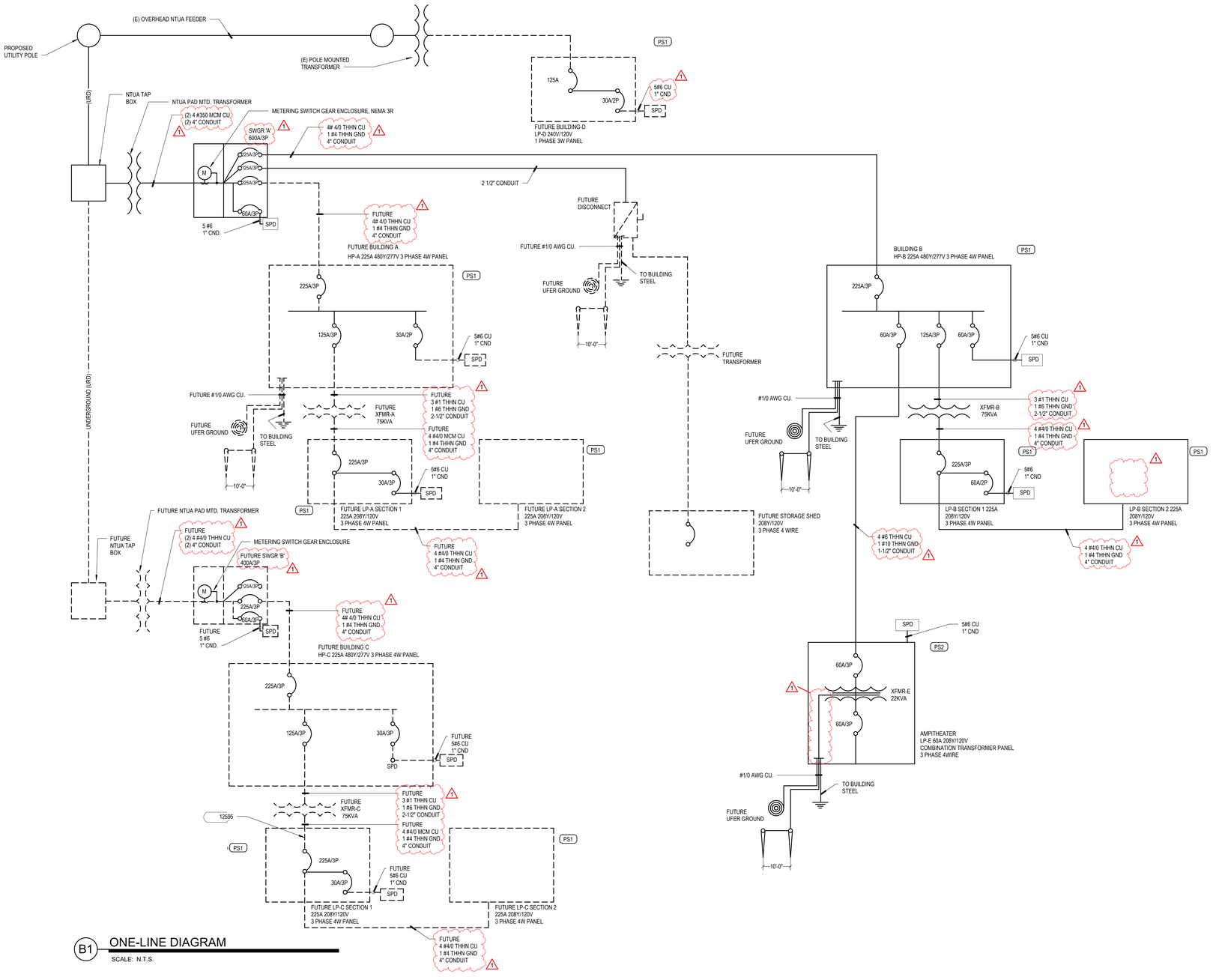
SPECIAL NOTES

1. REFER TO THE GROUNDING DIAGRAMS ON SHEETS E600.2,E600.3,E600.4,E600.5 FOR MORE INFORMATION
2. CONDUCTOR 3.2ES BASED ON COPPER.
3. THE ELECTRICAL CONTRACTOR IS TO DO AN ARC FLASH STUDY FOR THE NEW ELECTRICAL SYSTEM. THE CONTRACTOR IS TO PROVIDE ARC FLASH TAGS FOR ALL ELECTRICAL PANELS PRIOR TO SYSTEM BEING ENERGIZED. REFER TO SPECIFICATION 260575 FOR MORE INFORMATION.

KEYED NOTES

PS1 REFER TO THE PANEL SCHEDULE FOR MORE INFORMATION.

PS2 NEW COMBINATION TRANSFORMER/PANELBOARD (SQUARE-D MINI-POWER ZONE #MPZB15S40F2SK) COMBO TRANSFORMER PANEL SHALL BE PROVIDED WITH A 60A, MAIN CIRCUIT BREAKER. REFER TO PANEL SCHEDULE FOR MORE INFORMATION.



B1 ONE-LINE DIAGRAM

SCALE: N.T.S.

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VCBO NUMBER: 10115
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ECE Project # 6072

REV	DATE	DESCRIPTION
1	11/11/26	Addendum 01

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

Construction Documents

ONE-LINE DIAGRAM

E600.1

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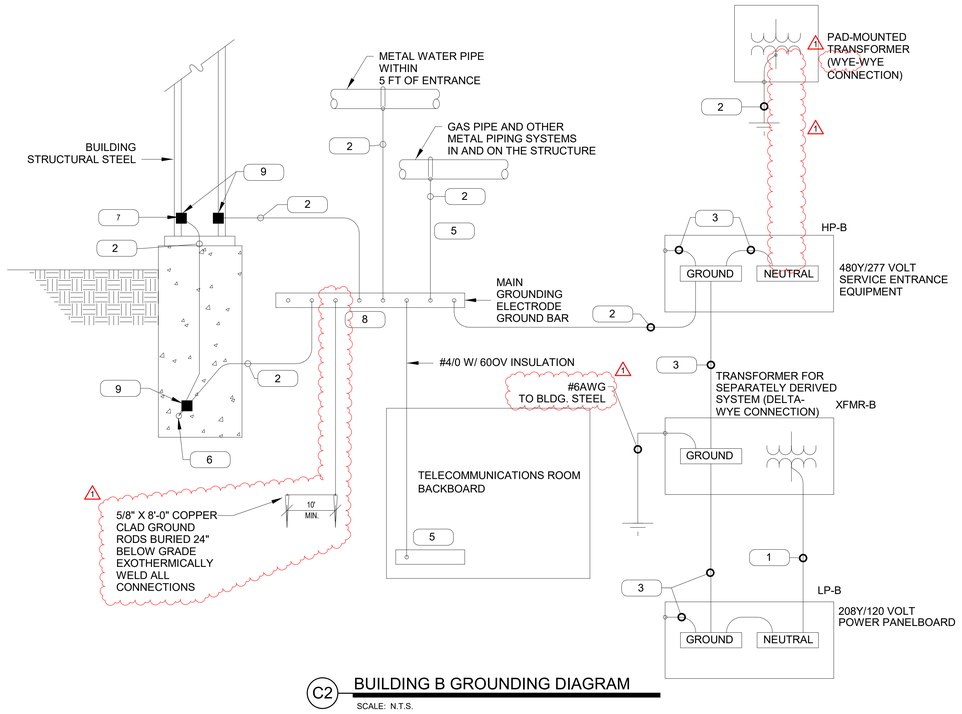
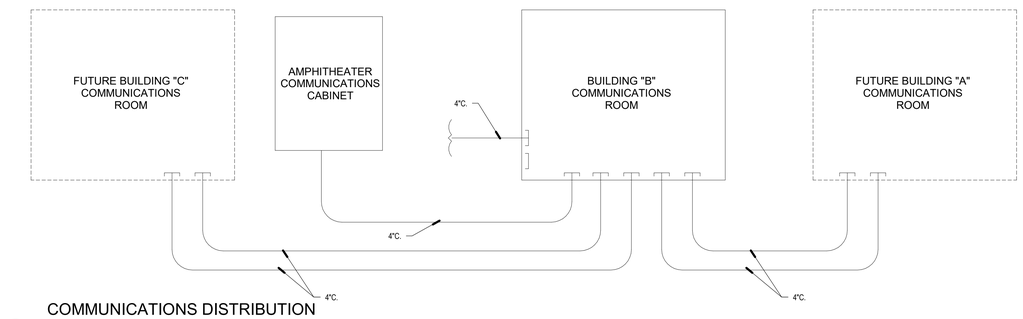


C2 BUILDING B GROUNDING DIAGRAM

SCALE: N.T.S.



1 COMMUNICATIONS DISTRIBUTION RISER DIAGRAM

SCALE: 12" = 1'-0"

SPECIAL NOTES

1. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE AND TESTING.
2. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT, BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT, BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
4. BOND HOT AND COLD WATER PIPING SYSTEMS.
5. ALL GROUNDING SHALL COMPLY WITH 2014 NEC.

KEYED NOTES

1. REFER TO THE POWER SINGLE LINE DIAGRAM FOR NEUTRAL CONDUCTOR SIZE.
2. INSTALL GROUNDING ELECTRODE CONDUCTOR PER TABLE 250.66.
3. REFER TO THE POWER SINGLE LINE DIAGRAM FOR GROUND CONDUCTOR SIZE.
4. BONDING TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
5. INSTALL A COPPER GROUNDING BAR AT TELECOMMUNICATIONS ROOM. CONNECT TO THE 'MAIN GROUNDING ELECTRODE GROUND BAR' USING 600V INSULATED 4/O AWG COPPER CABLE AND COMPRESSION SPADE LUGS
6. INSTALL A CONCRETE ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ON-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:
   A. BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 4 AWG.
   B. BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN 4 AWG. USE REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:

TOTAL LENGTH	MINIMUM REBAR SIZE
112FT	1 3/8" (#11 BAR)
150FT	1" (#8 BAR)
192FT	3/4" (#6 BAR)
223FT	5/8" (#5 BAR)
268FT	1/2" (#4 BAR)

7. BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE COMPRESSION CONNECTIONS THAT MEET UL REQUIREMENTS OR USE EXOTHERMIC WELDS.
8. INSTALL A 'MAIN GROUND ELECTRODE GROUND BAR' FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO HOLE COMPRESSION SPADE LUGS THAT MEET UL REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
9. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.

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REV	DATE	DESCRIPTION
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Navajo Nation, Window Rock AZ

Construction Documents

BUILDING B GROUNDING & COMMUNICATIONS DISTRIBUTION RISER DIAGRAM

E600.2

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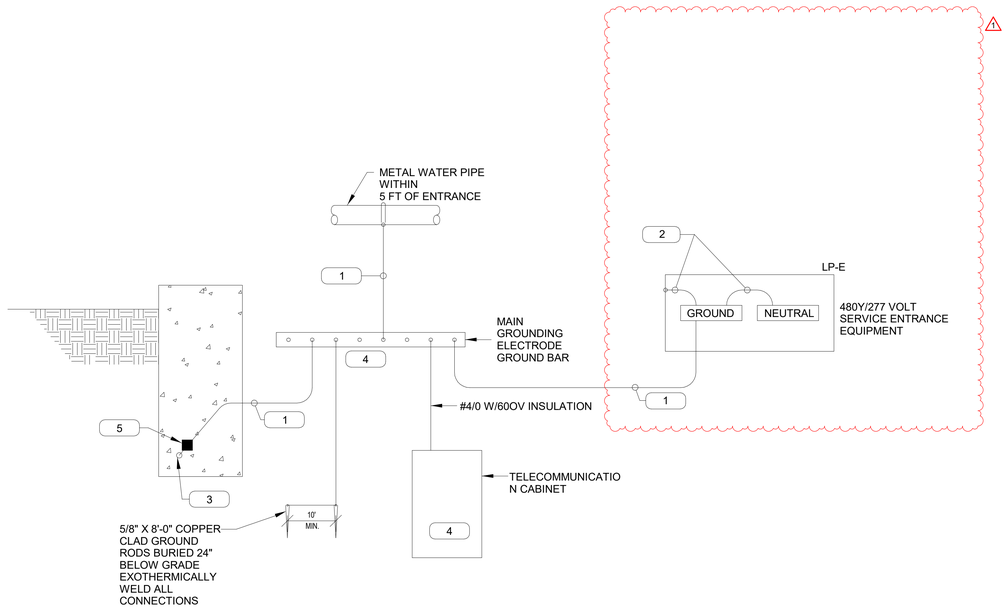

C2 AMPHITHEATER GROUNDING DIAGRAM

SCALE: N.T.S.

SPECIAL NOTES

1. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE AND TESTING.
2. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT, BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT, BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
4. BOND HOT AND COLD WATER PIPING SYSTEMS.
5. ADDITIONAL GROUNDING RODS SHALL BE PROVIDED UNTIL RESISTANCE IS LESS THAN 25 OHMS. RESISTANCE TESTS SHALL BE VERIFIED BY NTUA.
6. ALL GROUNDING SHALL COMPLY WITH 2014 NEC.

KEYED NOTES

1. INSTALL GROUNDING ELECTRODE CONDUCTOR PER TABLE 250.66.
2. REFER TO THE POWER SINGLE LINE DIAGRAM FOR GROUND CONDUCTOR SIZE.
3. BONDING TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
4. INSTALL A COPPER GROUNDING BAR AT TELECOMMUNICATIONS ROOM. CONNECT TO THE 'MAIN GROUNDING ELECTRODE GROUND BAR' USING 600V INSULATED 4/O AWG COPPER CABLE AND COMPRESSION SPADE LUGS
5. INSTALL A CONCRETE ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ON-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:
   A. BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 4 AWG.
   B. BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN 4 AWG. USE REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:

TOTAL LENGTH	MINIMUM REBAR SIZE
112FT	1 3/8" (#11 BAR)
150FT	1" (#8 BAR)
192FT	3/4" (#6 BAR)
223FT	5/8" (#5 BAR)
268FT	1/2" (#4 BAR)

6. BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE COMPRESSION CONNECTIONS THAT MEET UL REQUIREMENTS OR USE EXOTHERMIC WELDS.
7. INSTALL A 'MAIN GROUND ELECTRODE GROUND BAR' FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO HOLE COMPRESSION SPADE LUGS THAT MEET UL REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
8. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.

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REV	DATE	DESCRIPTION
1	11/11/26	Addendum 01

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

Construction Documents

AMPHITHEATER GROUNDING DIAGRAM

E600.3

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Future Panel: HP-A

Location:
Supply From: SWGR-A
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	XFMR-A	125 A	3	17053 VA	3131 VA					3	20 A	RTU-4A	2
3	--	--	--			20391...	3131 VA			--	--	--	4
5	--	--	--					13216...	3131 VA	--	--	--	6
7	LIGHTING	20 A	1	2559 VA	3131 VA					3	20 A	RTU-5A	8
9	LIGHTING	20 A	1			1360 VA	3131 VA			--	--	--	10
11	LIGHTING EXTERIOR	20 A	1					670 VA	3131 VA	--	--	--	12
13	LIGHTING	20 A	1	950 VA	5459 VA					3	25 A	RTU-1A	14
15	SITE LIGHTING	20 A	1			825 VA	5459 VA			--	--	--	16
17	RTU-2A	20 A	3					3409 VA	5459 VA	--	--	--	18
19	--	--	--	3409 VA	2659 VA					1	20 A	EUH-1A	20
21	--	--	--			3409 VA	4184 VA			3	20 A	RTU-3A	22
23	SPARE	20 A	1					0 VA	4184 VA	--	--	--	24
25	SITE SIGN LIGHTING	20 A	1	74 VA	4184 VA					--	--	--	26
27	SPARE	20 A	1			0 VA	1467 VA			1	20 A	COURT ROOM LIGHTING	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					3	30 A	SPD	38
39	SPARE	20 A	1			0 VA	0 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	0 VA	--	--	--	42
		Total Load:		42105 VA		43358 VA		33201 VA					
		Total Amps:		157 A		161 A		120 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	5522 VA	100.00%	5522 VA		
Power	72751 VA	100.00%	72751 VA	**Total Conn. Load:**	118644 VA
Lighting	3640 VA	100.00%	3640 VA	**Total Est. Demand:**	110835 VA
HVAC	9082 VA	100.00%	9082 VA	**Total Conn. Current:**	143 A
Receptacle	25620 VA	69.52%	17810 VA	**Total Est. Demand Current:**	133 A
Fire Alarm	2160 VA	100.00%	2160 VA		

Notes:
PROVIDE FULLY HINGED COVER PLATE.

Branch Panel: HP-B

Location:
Supply From: SWGR-A
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	XFMR-B	125 A	3	19516 VA	2188 VA					3	60 A	PANEL LP-E	2
3	--	--	--			21595...	1507 VA			--	--	--	4
5	--	--	--					16896...	1293 VA	--	--	--	6
7	FLAG LIGHTING	20 A	1	57 VA	2058 VA					1	20 A	LIGHTING	8
9	RTU-1B	20 A	3			2855 VA	1702 VA			1	20 A	LIGHTING	10
11	--	--	--					2855 VA	1120 VA	1	20 A	LIGHTING	12
13	--	--	--	2855 VA	1973 VA					1	20 A	LIGHTING	14
15	RTU-2B	20 A	3			4184 VA	1061 VA			1	20 A	LIGHTING	16
17	--	--	--					4184 VA	380 VA	1	20 A	LIGHTING	18
19	--	--	--	4184 VA	1375 VA					1	20 A	SITE LIGHTING	20
21	RTU-3B	20 A	3			6125 VA	5459 VA			3	25 A	RTU-4B	22
23	--	--	--					6125 VA	5459 VA	--	--	--	24
25	--	--	--	6125 VA	5459 VA					--	--	--	26
27	FIRE PUMP HOUSE	60 A	3			8333 VA	3131 VA			3	20 A	RTU-5B	28
29	--	--	--					8333 VA	3131 VA	--	--	--	30
31	--	--	--	8333 VA	3131 VA					--	--	--	32
33	LIGHTING - PEACEMAKING ROOM	20 A	1			1272 VA	2659 VA			1	20 A	EUH-1B	34
35	CATWALK LIGHTING	20 A	1					200 VA	74 VA	1	20 A	SITE SIGN LIGHTING	36
37	RTU-6B	20 A	3	3131 VA	0 VA					3	30 A	SPD	38
39	--	--	--			3131 VA	0 VA			--	--	--	40
41	--	--	--					3131 VA	0 VA	--	--	--	42
		Total Load:		60386 VA		62504 VA		53179 VA					
		Total Amps:		222 A		230 A		192 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	35467 VA	100.00%	35467 VA		
Power	93055 VA	100.00%	93055 VA	**Total Conn. Load:**	176055 VA
Lighting	5793 VA	100.00%	5793 VA	**Total Est. Demand:**	168756 VA
HVAC	7133 VA	100.00%	7133 VA	**Total Conn. Current:**	212 A
Receptacle	24160 VA	70.70%	17080 VA	**Total Est. Demand Current:**	203 A
Outlet	10440 VA	97.89%	10220 VA		
M	180 VA	100.00%	180 VA		

Notes:
PROVIDE FULLY HINGED COVER PLATE.

Future Panel: LP-A

Location:
Supply From: 75KVA XFMR-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES, COURT STORAGE, MECH	20 A	1	540 VA	1800...					1	20 A	PRINTER A121	2
3	RECEPTACLES, FUTURE OFFICE A122	20 A	1			720 VA	360 VA			1	20 A	RECEPTACLES, RESTROOMS (A123, A125)	4
5	RECEPTACLES, ASSOCIATE ATTORNEY A118	20 A	1					720 VA	720 VA	1	20 A	RECEPTACLES, ASSOCIATE ATTORNEY A120	6
7	RECEPTACLES, HALL (A120)	20 A	1	540 VA	720 VA					1	20 A	RECEPTACLES, ASSOCIATE JUSTICE (A116...	8
9	RECEPTACLES, ASSOCIATE JUSTICE (A116...	20 A	1			540 VA	720 VA			1	20 A	RECEPTACLES, ASSOCIATE JUSTICE (A115 ...	10
11	RECEPTACLES, ASSOCIATE JUSTICE (A115 ...	20 A	1					540 VA	540 VA	1	20 A	RECEPTACLES, CHIEF JUSTICE CHAMBER (S)	12
13	RECEPTACLES, CHIEF JUSTICE CHAMBER (N)	20 A	1	540 VA	720 VA					1	20 A	RECEPTACLES, CONFERENCE ROOM A114	14
15	RECEPTACLES, JUDICIAL ADMIN SEC. (A112)	20 A	1			900 VA	540 VA			1	20 A	RECEPTACLES, LAW LIBRARY AND CLERKS...	16
17	RECEPTACLES, LAW LIBRARY AND CLERKS...	20 A	1					540 VA	720 VA	1	20 A	RECEPTACLES, DELIBERATION A119	18
19	RECEPTACLES, ATTORNEY CLIENT CONF...	20 A	1	540 VA	540 VA					1	20 A	RECEPTACLES, ATTORNEY CLIENT CONF...	20
21	RECEPTACLES, COURT CLERK A127	20 A	1			900 VA	540 VA			1	20 A	RECEPTACLES, MAIN CORRIDOR	22
23	RECEPTACLES, ELECTRICAL RM	20 A	1					540 VA	720 VA	1	20 A	RECEPTACLES, ABSTRACT (A107)	24
25	RECEPTACLES, BREAK RM A140	20 A	1	540 VA	360 VA					1	20 A	RECEPTACLES, RESTROOMS (A105 & A106)	26
27	RECEPTACLES, COMM. A128	20 A	1			1080...	720 VA			1	20 A	RECEPTACLES, SECURITY CHECKPOINT A102	28
29	RECEPTACLES, EXTERIOR	20 A	1					720 VA	720 VA	1	20 A	FLOOR RECEPTACLE ROOM A111	30
31	RECEPTACLES, COURT ADMIN A124	20 A	1	720 VA	720 VA					1	20 A	ADA DOORS	32
33	CEILING PROJECTOR A111	20 A	1			1800...	360 VA			1	20 A	RECEPTACLES, COPY RM (A121)	34
35	RECEPTACLES, ELECTRIC WATER COOLER	20 A	1					180 VA	1100...	1	20 A	FRIDGE BREAK A140	36
37	MOTORIZED SHADES A111	20 A	1	1500...	1259...					2	20 A	RCU-2A	38
39	MICROWAVE, CONFERENCE ROOM A113	20 A	1			1100...	1259...			--	--	--	40
41	RECEPTACLE, CONFERENCE ROOM A113	20 A	1					360 VA	1100...	1	20 A	MICROWAVE BREAK A140	42
43	FACP-A	20 A	1	0 VA	0 VA					1	20 A	LCP-A	44
45	WATER HEATER	20 A	1			2372...	1100...			1	20 A	REFRIGERATOR, CONFERENCE A113	46
47	EF-1A	20 A	1					1176...	900 VA	1	20 A	FIRE SMOKE DAMPERS	48
49	ROOF RECEPTACLES	20 A	1	720 VA	1800...					1	20 A	MOTORIZED SCREEN A111	50
51	CIRCULATION PUMP	20 A	1			626 VA	1800...			1	20 A	CONFERENCE ROOM TV A114	52
53	FIRE SMOKE DAMPERS	20 A	1					720 VA	720 VA	1	20 A	Receptacle SUPREME COURT COURTROOM...	54
55	FCU-1A	25 A	2	1695...	1259...					2	20 A	RCU-1A	56
57	--	--	--			1695...	1259...			--	--	--	58
59	MOTORIZED DAMPER	20 A	1					120 VA	360 VA	1	20 A	A/V CABINET LAW LIBRARY AND CLERKS A117	60
61	FIRE SMOKE DAMPERS	20 A	1	540 VA	0 VA					1	20 A	SPARE	62
63	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	64
65	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	68
69	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	70
71	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	72
73	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	74
75	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	76
77	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	78
79	SPARE	20 A	1	0 VA	0 VA					3	30 A	SPD	80
81	SPARE	20 A	1			0 VA	0 VA			--	--	--	82
83	SPARE	20 A	1					0 VA	0 VA	--	--	--	84
		Total Load:		17053 VA		20391 VA		13216 VA					
		Total Amps:		147 A		175 A		110 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	1260 VA	100.00%	1260 VA		
Power	14806 VA	100.00%	14806 VA	**Total Conn. Load:**	50660 VA
Lighting	0 VA	0.00%	0 VA	**Total Est. Demand:**	42850 VA
HVAC	6814 VA	100.00%	6814 VA	**Total Conn. Current:**	141 A
Receptacle	25620 VA	69.52%	17810 VA	**Total Est. Demand Current:**	119 A
Fire Alarm	2160 VA	100.00%	2160 VA		

Notes:
PROVIDE FULLY HINGED COVER PLATE.
PROVIDE TWO 42 CIRCUIT BREAKER PANELS SIDE BY SIDE FOR SECTION 1 AND SECTION 2 AS SHOWN ON PLANS AND RISER DIAGRAM.

Branch Panel: LP-B

Location:
Supply From: 75 KVA XFMR-B
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES, MAIN CORRIDOR	20 A	1	540 VA	720 VA					1	20 A	RECEPTACLES, CUSTODIAL OFFICE B127	2
3	RECEPTACLES, ENTRY EXTERIOR	20 A	1			180 VA	1176...			1	20 A	EF-1B	4
5	PROJECTOR LECTURE ROOM A B120A	20 A	1					180 VA	720 VA	1	20 A	RECEPTACLES, JAN, CHAIRS, LECTURE RM ...	6
7	RECEPTACLES, RESTROOMS B103, B104	20 A	1	1260...	900 VA					1	20 A	RECEPTACLES, MEETING RM (WEST)	8
9	RECEPTACLES, RECEPTION AREA B105	20 A	1			900 VA	720 VA			1	20 A	RECEPTACLES, BI-CULTURE TRAINING...	10
11	RECEPTACLES, PEACE MAKING STORAGE	20 A	1					720 VA	540 VA	1	20 A	RECEPTACLES, WORK RM B109	12
13	RECEPTACLES, MEETING RM (EAST)	20 A	1	360 VA	360 VA					1	20 A	RECEPTACLES, LIASON WORK	14
15	RECEPTACLES, PROGRAM COORDINATOR	20 A	1			900 VA	360 VA			1	20 A	RECEPTACLES, CIRCULATION	16
17	PRINTER B109	20 A	1					1800...	0 VA	1	20 A	FACP-B	18
19	RECEPTACLES, AUDIO ROOM B114	20 A	1	540 VA	360 VA					1	20 A	RECEPTACLES, FRIDGE	20
21	RECEPTACLES, RESTROOMS B115,B116	20 A	1			360 VA	900 VA			1	20 A	RECEPTACLES, TRADITIONAL DINE...	22
23	RECEPTACLES, LIBRARY	20 A	1					900 VA	720 VA	1	20 A	RECEPTACLES, LECTURE RM A (WEST)	24
25	RECEPTACLES, EXTERIOR (SOUTH)	20 A	1	540 VA	540 VA					1	20 A	RECEPTACLES, PEACEMAKING RM (NORTH)	26
27	RECEPTACLES, LECTURE RM B	20 A	1			1080...	180 VA			1	20 A	PROJECTOR LECTURE ROOM B B120B	28
29	RECEPTACLES, PEACEMAKING RM (SOUTH)	20 A	1					720 VA	0 VA	1	20 A	LCP-B	30
31	LIGHTING INVERTER	20 A	1	0 VA	1100...					1	20 A	REFRIGERATOR BREAK B140	32
33	MICROWAVE BREAK B140	20 A	1			1100...	360 VA			1	20 A	A/V RACK JAN B121	34
35	Spare	20 A	1					0 VA	557 VA	1	20 A	P-1B	36
37	WATER HEATER WH-1B	30 A	1	2372...	0 VA					1	20 A	Spare	38
39	RCU-1B	20 A	2			1259...	1800...			1	20 A	MOTORIZED SCREEN LECTURE ROOM B...	40
41	--	--	--					1259...	540 VA	1	20 A	RECEPTACLE, CATWALK	42
43	RECEPTACLES, ELEC. B125	20 A	1	540 VA	1080...					1	20 A	RECEPTACLES, TELE. TERMINAL BOARD	44
45	ADA DOORS	20 A	1			720 VA	1800...			1	20 A	PROJECTION SCREEN	46
47	RECEPTACLES, ROOFTOP SERVICE OUTLETS	20 A	1					1080...	1800...	1	20 A	TV CONNECTION B113	48
49	RECEPTACLES, LECTURE RMS A & B FLOOR	20 A	1	360 VA	3600...					1	40 A	SOLATUBE	50
51	RECEPTACLES, AUDIO RM (WEST)	20 A	1			540 VA	1500...			1	20 A	MOTORIZED SHADES LECTURE ROOM	52
53	MOTORIZED SHADES LECTURE ROOM	20 A	1					500 VA	180 VA	1	20 A	RECEPTACLES, ELECTRIC WATER COOLER	54
55	Spare	20 A	1	0 VA	24 VA					1	20 A	LIGHTING, RECEPTION DESKS	56
57	EXTERIOR RECEPTACLE	20 A	1			180 VA	1800...			1	20 A	FLOOR RECEPTACLES, LECTURE ROOM A	58
59	CEILING RECEPTACLE, TELE. ROOM	20 A	1					360 VA	1800...	1	20 A	FLOOR RECEPTACLES, LECTURE ROOM A	60
61	CEILING RECEPTACLE, TELE. ROOM	20 A	1	360 VA	1440...					1	20 A	FLOOR RECEPTACLES, LECTURE ROOM A	62
63	RECEPTACLES, WAITING AREA BENCH USB	20 A	1			720 VA	180 VA			1	20 A	SECURITY PANEL	64
65	FLOOR RECEPTACLES, LECTURE ROOM B	20 A	1					1800...	180 VA	1	20 A	GFCI RECEPTACLE, ROOF	66
67	FLOOR RECEPTACLES, LECTURE ROOM B	20 A	1	1800...	180 VA					1	20 A	GFCI RECEPTACLE, ROOF	68
69	FLOOR RECEPTACLES, LECTURE ROOM B	20 A	1			1440...	180 VA			1	20 A	GFCI RECEPTACLE, ROOF	70
71	GATE ARM CONTROL PANEL	20 A	1					360 VA	180 VA	1	20 A	GFCI RECEPTACLE, ROOF	72
73	GATE ARM CONTROL PANEL	20 A	1	360 VA	180 VA					1	20 A	GFCI RECEPTACLE, ROOF	74
75	RECEPTACLES, TELE. TERMINAL BOARD	20 A	1			1080...	180 VA			1	20 A	GFCI RECEPTACLE, ROOF	76
77	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	78
79	SPARE	20 A	1	0 VA	0 VA					3	30 A	SPD	80
81	SPARE	20 A	1			0 VA	0 VA			--	--	--	82
83	SPARE	20 A	1					0 VA	0 VA	--	--	--	84
		Total Load:		19516 VA		21595 VA		16896 VA					
		Total Amps:		166 A		183 A		141 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	360 VA	100.00%	360 VA		
Power	14778 VA	100.00%	14778 VA	**Total Conn. Load:**	58007 VA
Lighting	3624 VA	100.00%	3624 VA	**Total Est. Demand:**	50887 VA
HVAC	4825 VA	100.00%	4825 VA	**Total Conn. Current:**	161 A
Receptacle	24160 VA	70.70%	17080 VA	**Total Est. Demand Current:**	141 A
Outlet	10080 VA	99.60%	10040 VA		
M	180 VA	100.00%	180 VA		

Notes:
PROVIDE FULLY HINGED COVERPLATE.
PROVIDE TWO 42 CIRCUIT BREAKER PANELS SIDE BY SIDE FOR SECTION 1 AND SECTION 2 AS SHOWN ON PLANS AND RISER DIAGRAM.

Future Panel: LP-C

Location:
Supply From: XFMR-C
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES, CONF RM (C109)	20 A	1	900 VA	360 VA					1	20 A	RECEPTACLES, BREAK RM (C110)	2
3	RECEPTACLES, COPY ROOM (C111)	20 A	1			540 VA	900 VA			1	20 A	RECEPTACLES, CONF RM (C112)	4
5	RECEPTACLES, FISCAL DIRECTOR (C	20 A	1					720 VA	720 VA	1	20 A	RECEPTACLES, CONF RM FLOOR (C112)	6
7	RECEPTACLES, DEPUTY DIR. OF JUDICIAL...	20 A	1	720 VA	540 VA					1	20 A	RECEPTACLES, ACCOUNTANT (C114)	8
9	RECEPTACLES, JUDICIAL EXEC. SECRETARY	20 A	1			720 VA	900 VA			1	20 A	RECEPTACLES, DIR. JUDICIAL ADMIN. (C116)	10
11	RECEPTACLES, JUDICIAL LEGAL SECRETARY	20 A	1					720 VA	720 VA	1	20 A	RECEPTACLES, INTERNAL AUDITOR (C118)	12
13	RECEPTACLES, COURT STATISTICIAN	20 A	1	720 VA	540 VA					1	20 A	RECEPTACLES, JUDICIAL STORAGE (C122)	14
15	RECEPTACLES, SERVER/ COMM RM	20 A	1			1440...	540 VA			1	20 A	RECEPTACLES, COMP. OPERATION SUPER...	16
17	RECEPTACLES, FISCAL STORAGE (C136)	20 A	1					540 VA	540 VA	1	20 A	RECEPTACLES, AUTO/ INFO MANAGER (C130)	18
19	RECEPTACLES, FISCAL RECEIVING (C134B)	20 A	1	360 VA	720 VA					1	20 A	RECEPTACLES, RECEIVING 134A	20
21	RECEPTACLES, CIRCULATION (C135)	20 A	1			900 VA	360 VA			1	20 A	RECEPTACLES, MECH, CUSTODIAL (C132,...	22
23	RECEPTACLES, LIASON OFFICER (C125)	20 A	1					720 VA	720 VA	1	20 A	RECEPTACLES, CASE MANAGEMENT SUPER.	24
25	RECEPTACLES, ELECTRICAL RM, COPY RM	20 A	1	900 VA	720 VA					1	20 A	RECEPTACLES	26
27	RECEPTACLES, H.R. DIRECTOR (C107) (S)	20 A	1			720 VA	540 VA			1	20 A	RECEPTACLES, H.R. DIRECTOR (C107) (N)	28
29	RECEPTACLES, HUMAN RESOURCES (C105)	20 A	1					540 VA	360 VA	1	20 A	RECEPTACLES, HUMAN RESOURCES T...	30
31	RECEPTACLES, RESTROOMS (C103, C104)	20 A	1	720 VA	180 VA					1	20 A	RECEPTACLES, ELECTRIC WATER COOLER	32
33	RECEPTACLES, LOBBY (C101)	20 A	1			540 VA	720 VA			1	20 A	RECEPTACLES, HALL (C108)	34
35	RECEPTACLES, (C108A, C108B)	20 A	1					360 VA	360 VA	1	20 A	RECEPTACLES, (C108C, C108D)	36
37	MICROWAVE, CONFERENCE ROOM C112	20 A	1	1100...	360 VA					1	20 A	RECEPTACLE, CONFERENCE ROOM C112	38
39	RECEPTACLE, CONFERENCE ROOM C112	20 A	1			360 VA	1259...			2	20 A	RCU-1C	40
41	REFRIGERATOR, CONFERENCE ROOM C112	20 A	1					180 VA	1259...	--	--	--	42
43	RECEPTACLES, C108J C108K	20 A	1	360 VA	360 VA					1	20 A	RECEPTACLES, C108G C108H	44
45	RECEPTACLES, PRINTER	20 A	1			1800...	540 VA			1	20 A	RECEPTACLES, EXTERIOR	46
47	RECEPTACLES, SHOP (C134C)	20 A	1					180 VA	180 VA	1	20 A	RECEPTACLES, SHOP (C134C)	48
49	RECEPTACLES, C108E C108F	20 A	1	360 VA	360 VA					1	20 A	RECEPTACLES, BREAK (C110)	50
51	REFRIGERATOR, BREAK C110	20 A	1			180 VA	1800...			1	20 A	PRINTER	52
53	RECEPTACLES, ROOFTOP SERVICE OUTLETS	20 A	1					720 VA	0 VA	1	20 A	EXHAUST FANS	54
55	LCP-C	20 A	1	0 VA	0 VA					1	20 A	FACP-C	56
57	EF-1C	20 A	1			1176...	506 VA			1	20 A	P-1C	58
59	SPARE	20 A	1					0 VA	1100...	1	20 A	IRRIGATION SYSTEM	60
61	SPARE	20 A	1	0 VA	360 VA					1	20 A	IT RACK	62
63	WATER HEATER WH-1C	30 A	1			2372...	360 VA			1	20 A	IT RACK	64
65	ADA DOORS	20 A	1					720 VA	1800...	1	20 A	TV CONNECTION	66
67	FIRE SMOKE DAMPERS	20 A	1	900 VA	1080...					1	20 A	FIRE DAMPER	68
69								0 VA		1	20 A	SPARE	70
71	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	72
73	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	74
75	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	76
77	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	78
79	SPARE	20 A	1	0 VA	0 VA					3	30 A	SPD	80
81	SPARE	20 A	1			0 VA	0 VA			--	--	--	82
83	SPARE	20 A	1					0 VA	0 VA	--	--	--	84
		Total Load:		12620 VA		19173 VA		13159 VA					
		Total Amps:		105 A		160 A		110 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	2700 VA	100.00%	2700 VA		
Power	7938 VA	100.00%	7938 VA	**Total Conn. Load:**	44952 VA
Lighting	0 VA	0.00%	0 VA	**Total Est. Demand:**	36172 VA
HVAC	4774 VA	100.00%	4774 VA	**Total Conn. Current:**	125 A
Receptacle	27560 VA	68.14%	18780 VA	**Total Est. Demand Current:**	100 A
Fire Alarm	1980 VA	100.00%	1980 VA		

Notes:
PROVIDE FULLY HINGED COVER PLATE.
PROVID TWO 42 CIRCUIT BREAKER PANELS SIDE BY SIDE FOR SECTION 1 AND SECTION 2 AS SHOWN ON PLANS AND RISER DIAGRAM.

Future Panel: HP-C

Location:
Supply From: SWGR-B
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1					2128 VA					1	20 A	LIGHTING	2
3	XFMR-C	125 A	3			12620...	2753 VA			1	20 A	LIGHTING	4
5	--	--	--					19173...	2142 VA	1	20 A	LIGHTING	6
7	--	--	--	13159 VA	350 VA					1	20 A	LIGHTING	8
9							825 VA			1	20 A	SITE LIGHTING	10
11									3409 VA	3	20 A	RTU-1C	12
13					3409 VA					--	--	--	14
15	RTU-2C	20 A	3			3131 VA	3409 VA			--	--	--	16
17	--	--	--					3131 VA	2855 VA	3	20 A	RTU-3C	18
19	--	--	--	3131 VA	2855 VA					--	--	--	20
21	SPARE	20 A	1			0 VA	2855 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	5986 VA	3	25 A	RT

Branch Panel: LP-D

Location:
Supply From:
Mounting: Surface
Enclosure: Type 3R

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 60 A

Notes:

NOT PERMITTED AT THIS TIME

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES, OFFICE D101	20 A	1	720 VA	720 VA			1	20 A	RECEPTACLES, OFFICE D100	2
3	RECEPTACLES, D111, D102, D107	20 A	1			720 VA	720 VA	1	20 A	RECEPTACLES, OFFICE TECH D106	4
5	RECEPTACLES, CHIEF PROBATION...	20 A	1	720 VA	881 VA			1	20 A	LIGHTING, BUILDING D	6
7	LIGHTING, BUILDING D	20 A	1			56 VA	0 VA	1	20 A	FACP-D	8
9	LCP-D	20 A	1	0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1	0 VA	0 VA			2	30 A	SPD	18
19	SPARE	20 A	1			0 VA	0 VA	--	--	--	20
			Total Load:	3581 VA		1496 VA					
			Total Amps:	30 A		12 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	702 VA	100.00%	702 VA		
Power	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	5076 VA
Lighting	234 VA	100.00%	234 VA	**Total Est. Demand:**	5076 VA
Receptacle	2880 VA	100.00%	2880 VA	**Total Conn. Current:**	21 A
				Total Est. Demand Current:	21 A

Notes:
pROVIDE COMBINATION METER/MAIN/PANEL IN NEMA 3R ENCLOSURE WITH LOCKING COVERPLATE.

Panel: SWGR-A

Location:
Supply From:
Mounting: PAD MOUNT
Enclosure: NEMA 3R

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A ⚠1

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HP-A	225 A	3	42105 VA	60386 VA					3	225 A	HP-B	2
3	--	--	--			43358 VA	62504 VA			--	--	--	4
5	--	--	--					33201 VA	53179 VA	--	--		6
7	FUTURE STORAGE SHED	125 A	3	0 VA	0 VA					3	60 A	SPD	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13													14
15													16
		Total Load:		102473 VA		105853 VA		86380 VA					
		Total Amps:		379 A		391 A		312 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	40989 VA	100.00%	40989 VA		
Power	165806 VA	100.00%	165806 VA	**Total Conn. Load:**	294699 VA
Lighting	9433 VA	100.00%	9433 VA	**Total Est. Demand:**	274590 VA
HVAC	16211 VA	100.00%	16211 VA	**Total Conn. Current:**	354 A
Receptacle	49780 VA	60.04%	29890 VA	**Total Est. Demand Current:**	330 A
Outlet	10440 VA	97.89%	10220 VA		
Fire Alarm	2160 VA	100.00%	2160 VA		
M	180 VA	100.00%	180 VA		

Notes:
NEMA 3R, COORDINATE REQUIREMENTS WITH NTUA. PROVIDE FREE STANDING SINGLE METER/MAIN WITH MULTIPLE MAIN BRANCH CIRCUIT BREAKERS. PROVIDE COPPER BUSSES PER NTUA STANDARDS.

Future Panel: SWGR-B

Location:
Supply From:
Mounting: PAD MOUNT
Enclosure: NEMA 3R

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 30,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HP-C	225 A	3	40289 VA	0 VA					3	200 A	Spare	2
3	--	--	--			40849 VA	0 VA			--	--	--	4
5	--	--	--					42681 VA	0 VA	--	--	--	6
7	SPACE	--	1	--	0 VA					3	60 A	SPD	8
9	SPACE	--	1			--	0 VA			--	--	--	10
11	SPACE	--	1					--	0 VA	--	--	--	12
13													14
15													16
		Total Load:		40289 VA		40849 VA		42681 VA					
		Total Amps:		145 A		148 A		154 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	7779 VA	100.00%	7779 VA		
Power	72038 VA	100.00%	72038 VA	**Total Conn. Load:**	123770 VA
Lighting	3119 VA	100.00%	3119 VA	**Total Est. Demand:**	114997 VA
HVAC	4774 VA	100.00%	4774 VA	**Total Conn. Current:**	149 A
Receptacle	27560 VA	68.14%	18780 VA	**Total Est. Demand Current:**	138 A
Heating	8033 VA	100.00%	8033 VA		
Fire Alarm	1980 VA	100.00%	1980 VA		

Notes:
NEMA 3R, COORDINATE REQUIREMENTS WITH NTUA. PROVIDE FREE STANDING SINGLE METER/MAIN WITH MULTIPLE MAIN BRANCH CIRCUIT BREAKERS. PROVIDE COPPER BUSSES PER NTUA STANDARDS.

Branch Panel: LP-E

Location:
Supply From: XFMR-E
Mounting: Surface
Enclosure: Type 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 60 A
MCB Rating: 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES, OUTER RING	20 A	1	720 VA	900 VA					1	20 A	RECEPTACLES, INNER RING	2
3	RECEPTACLES, ELECTRICAL ROOM	20 A	1			720 VA	180 VA			1	20 A	LIGHT CONNECTION	4
5	LIGHT CONNECTION	20 A	1					180 VA	180 VA	1	20 A	LIGHT CONNECTION	6
7	LIGHT CONNECTION	20 A	1	180 VA	180 VA					1	20 A	LIGHT CONNECTION	8
9	LIGHT CONNECTION	20 A	1			180 VA	180 VA			1	20 A	LIGHT CONNECTION	10
11	LIGHT CONNECTION	20 A	1					180 VA	753 VA	1	20 A	AMPITHEATER LIGHTING	12
13	Other	20 A	1	208 VA	0 VA					2	30 A	FUTURE STORAGE BUILDING	14
15	AMPITHEATER LIGHTING	20 A	1			247 VA	0 VA			--	--	--	16
		Total Load:		2188 VA		1507 VA		1293 VA					
		Total Amps:		19 A		13 A		11 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	1142 VA	100.00%	1142 VA		
Power	3420 VA	100.00%	3420 VA	**Total Conn. Load:**	4988 VA
Lighting	67 VA	100.00%	67 VA	**Total Est. Demand:**	4988 VA
Outlet	360 VA	100.00%	360 VA	**Total Conn. Current:**	14 A
				Total Est. Demand Current:	14 A

Notes:
PROVIDE MINI POWER POWER ZONE (#MPZB22T2F25K OR EQUAL) COMBINATION TRANSFORMER / PANEL IN NEMA 3R ENCLOSURE.

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REV	DATE	DESCRIPTION
1	11/11/26	Addendum 01

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

Construction Documents

ELECTRICAL SCHEDULES

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PEACEMAKING (BUILDING B) LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMP/FIXTURE INFORMATION		APPROVED MANUFACTURERS	CATALOG NUMBER
A	RECESSED 2X2 LED FIXTURE WITH METAL PERFORATED DIFFUSER	VOLTAGE	277	LITHONIA	2BLT2 33L ADP GZ10 LP935
		MOUNT	RECESSED	METALUX	22CZ2-32-HRP-UNV-EL14W-L935-CD1-U
		COLOR			
		LUMENS	3000		
AE	SAME AS "A" WITH 90 MINUTE BATTERY PACK				
C	LINEAR LED, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS LENGTH AS SHOWN ON DRAWINGS. 24" PENDANT	VOLTAGE	277	LUX ILLUMINAIRE	EOS 4.0-P-DI-LAM 750 BAT 375 12FT 35K 9 1 UNV S1 W 15C 42 WF NONE
		MOUNT	PENDANT	ALW	LPX48SPFN-SXX-XX3590SL V01-NNNNNN-NNNNNN-SCBA-SCBA-XXX-1C-N-UNV-N-N-N-N
		COLOR			
		LUMENS	3200		
CE	SAME AS "C" WITH 90 MINUTE BATTERY PACK				
DD	4 FT LINEAR COVE LIGHT FIXTURE 2 54W T5 HO	VOLTAGE	277	MARK ARCHITECTURAL LIGHTING	MCV504 LLP 4FT MSL4 MCFMC 90CRI 35K 1000LMF ASYM MIN1 MVOLT SGW ZT MFCLC10R
		MOUNT	COVE	IO LTG	CS-SL-9SCT-120-ID-UNV-W-SA-STD-4F
		COLOR			
		LUMENS	3800		
DE	SAME AS "DD" WITH 90 MINUTE BATTERY PACK				
EE	MINIATURE TRAPEZOID ARCHITECTURAL SCONCE, HYDROFORM REFLECTOR CLEAR FLAT GLASS LENS, WITH EMERGENCY BATTERY PACK	VOLTAGE	277	LITHONIA	WDGE2 LED P4 30K 80CRI T3M MVOLT SRM E10WH DDBXD
		MOUNT	WALL	MCGRAW-EDISON	GKO-PB1E-830-U-T2R-BZ-CBP
		COLOR			
		LUMENS	4000		
FF	UNDER CABINET 19" LENGTH	VOLTAGE	277	KELVIX	UC22-3040-010V-120277-WH
		MOUNT	UNDER CABINET	HALO	HU30MSCTD18-SCBA
		COLOR			
		LUMENS	700		
G	6" APERTURE RECESSED CAN FIXTURE WITH MATT-DIFFUSER, MEDIUM DISTRIBUTION REFLECTOR	VOLTAGE	277	GOTHAM	IVO6 D 15LM 35K 90CRI MD MIN' MVOLT ZT NCH P AR LD F
		MOUNT	RECESSED	ALPHABET LIGHTING	NU6-RD-SW-15LM-35K-90-60D-HET-MC-MC-NC-UNV-DIM10
		COLOR			
		LUMENS	1500		
GE	SAME AS "G" WITH 90 MINUTE BATTERY PACK				
G3	6" APERTURE RECESSED CAN FIXTURE WITH MATT-DIFFUSER, MEDIUM DISTRIBUTION REFLECTOR, AND ADJUSTABLE AIM.	VOLTAGE	277	GOTHAM	IVO6 ADJ 15LM 35K 90CRI 60D MIN1 MVOLT ZT NCH AC AR LD F
		MOUNT	RECESSED	ALPHABET LIGHTING	NU6-RA-SW-15LM-35K-90-60D-HET - MC-MC-NC-UNV-DIM10
		COLOR			
		LUMENS	1500		
H	WALL MOUNTED FIXTURE TO MATCH FIXTURE "C" WITH 10% UPLIGHT.	VOLTAGE	277	LUX ILLUMINAIRE	EOS 3.0-W-D LAM 1250 4 35K 8 UNV S1 W
		MOUNT	WALL	ALW	LPX4BWMFF-SXX-XX3590SLV01-CM/01003590SLV01-NNNNNNN-SCBA-SCBA-N-1C-N-UNV-N-N-N-N
		COLOR			
		LUMENS	6000		
HE	SAME AS "H" WITH 90 MINUTE BATTERY PACK				
I	WALL MOUNTED LED WITH CUSTOM LASER CUT PATTERN ON EACH FIXTURE, CUSTOM METALLIC PRISM	VOLTAGE	277	INDESSA LIGHTING	418 1LED19 BRZ MOD (LASER CUT PRISM)
		MOUNT	WALL	CAMMAN INDUSTRIES	W104-12-LN-35K-CLV-MV-SCBA-SCBA-XX
		COLOR			
		LUMENS	2200		
J	4' STRIP LIGHT WITH MEDIUM DIFFUSER LENS AND CHAIN HANG KIT	VOLTAGE	277	LITHONIA LIGHTING	CSS L48 ALO3 MVOLT SWW3 80CRI
		MOUNT	CHAIN	METALUX	4SNX-33SL-LW-UNV-L935-CD1-U AYC-CHAIN/SET-24-U
		COLOR			
		LUMENS	3000		
JE	SAME AS "J" WITH 90 MINUTE BATTERY PACK				
K	2 X 2 RECESSED FIXTURE WITH .156" THICK ACRYLIC A19 PATTERN LENS	VOLTAGE	277	LITHONIA	CPX 2X2 ALO7 80 CRI SWW7 A12M MVOLT IP65
		MOUNT	RECESSED	METALUX	22CGTX-35-L935
		COLOR			
		LUMENS	3500		
KE	SAME AS "K" WITH 90 MINUTE BATTERY PACK				
M	4" APERTURE RECESSED CAN FIXTURE WITH MATT-DIFFUSER, MEDIUM DISTRIBUTION REFLECTION-DIMMABLE	VOLTAGE	277	GOTHAM	IVO4 D 10LM 35K 80CRI MD MIN10 MVOLT ZT NCH P AR LSS F
		MOUNT	RECESSED	HALO	HC410D010 HM40525935 41MDH1BC-150918-BR
		COLOR			
		LUMENS	1000		
P	EXTERIOR FLOOD LIGHT FIXTURE, DIE CAST ALUMINUM HOUSING, WIDE HORIZONTAL DISTRIBUTION	VOLTAGE	277	LITHONIA	DSXF1 LED P2 30K WFR MVOLT VG THK DDBXD
		MOUNT	SURFACE		
		COLOR			
		LUMENS	3200		
T	DECORATIVE PENDANT MOUNTED LED, BEACH AMBER GLASS, ANTIQUE BRONZE FINISH	VOLTAGE	120	RH	HAND-CARVED ALABASTER CYLINDER PENDANT 9"
		MOUNT	PENDANT		
		COLOR			
		LUMENS	500		
U	6" CYLINDER WITH SURFACE MOUNT, MATTE BLACK HOUSING	VOLTAGE	277	GOTHAM	IV04CYL SC D 15LM 35K 90CRI MD MIN1 MVOLT ZT L9 JBX P AR LD DBL
		MOUNT	SURFACE	ALW	CRS6-15903555NN-NV01-TB
		COLOR			
		LUMENS	1500		
UE	SAME AS "U" WITH CIRCUIT THROUGH INVERTER				
W	SURFACE MOUNTED LED DOWNLIGHT, ONE PIECE DIE CAST ALUMINUM HOUSING	VOLTAGE	277	BEGA	22 360 K3 BRZ
		MOUNT	SURFACE	LIGMAN LIGHTING	UGI-3160102X8W-W30-06-120/277V
		COLOR			
		LUMENS	1500		
WE	SAME AS "W" WITH CIRCUIT THROUGH INVERTER				
X	LED EXIT, GREEN LETTERS, BLACK ALUMINUM HOUSING AND BRUSHED ALUMINUM FACE, NiCAD 90 MINUTE BATTERY PACK	VOLTAGE	277	LITHONIA	BE W G SM M6
		MOUNT	UNIVERSAL	EVENLITE	CCDS-EM-G-1-SCBA-REC
		COLOR	-		
		LUMENS	-		
Y	IN-GRADE EXTERIOR UPLIGHT 10 DEG. TILT, CLEAR, LENS, FLOOD DISTRIBUTION, BRONZE DOOR	VOLTAGE	277	HYDREL	IGF6 A LED P1 80CRI 30K MVOLT 90DEG 10T FLC 34B ZT BL
		MOUNT	INGRADE	LUMIERE	3002A-RD-18LED3000-SP-CLR-UNV-BZ
		COLOR			
		LUMENS	900		

NOTES:

1.	THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER
2.	COLOR OF ALL INTERIOR LED LIGHT FIXTURES TO BE 3500K.
3.	COLOR OF ALL EXTERIOR LED LIGHT FIXTURES TO BE 3000K.
4.	ALL LED LIGHT FIXTURE SHALL HAVE 5 YEARS WARRANTY INCLUDING THE LED LAMPS.

AMPHITHEATRE LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMP/FIXTURE INFORMATION		APPROVED MANUFACTURERS	CATALOG NUMBER
BO	ROUND 35" TALL LED BOLLARD WITH TYPE III DISTRIBUTION, DARK SKY COMPLIANT, DARK BRONZE FINISH. REFER TO SITE PLAN FOR LOCATIONS.	VOLTAGE	277	ABOVE ALL	MOBD 35H 24 30 277 0-10V III **
		MOUNT	BOLLARD	PACIFICA	PACB PLED-III 20LED 30K UNV RAL-8019T
		COLOR	3000K		
		LUMENS	1500		
N2	RECESSED STEP LIGHT WITH ONE PIECE DIE CAST ALUMINUM FACE PLATE, CLEAR TEMPERED GLASS, DIE CAST ALUMINUM HOUSING WITH INTEGRAL WIRING COMPARTMENT	VOLTAGE	120	BEGA	33 107 K3 BRZ
		MOUNT	RECESSED	PERFORMANCE IN LIGHTING	IN1-7-SCBA-XXK-UNV-XX
		COLOR			
		LUMENS	150		
R	POLE MOUNTED LED TYPE III DISTRIBUTION 25' ROUND STEEL POLE. REFER TO SITE PLAN FOR LOCATIONS OF POLE MOUNTED SECURITY CAMERAS AND ADDITIONAL INFORMATION.	VOLTAGE	277	LITHONIA	RAD1 LED P3 30K SYM MVOLT RPA DDBXD
		MOUNT	POLE	ABOVE ALL LIGHTING	EPT2-60SP-SW-1-SDAR-III RSP25-4-11-F-DM10-BC (KW, ABOVE)
		COLOR			
		LUMENS	7000		
R2	POLE MOUNTED LED TYPE III DISTRIBUTION 25' ROUND STEEL POLE WITH TWO HEADS, 180 DEG.	VOLTAGE	277	LITHONIA	RAD1 LED P3 30K SYM MVOLT RPA DDBXD
		MOUNT	POLE	ABOVE ALL LIGHTING	(2) EPT2-60SP-SW-1-SDAR-III (1) RSP25-4-11-F-DM2180-BC (KW, ABOVE)
		COLOR			
		LUMENS	14000		
R3	POLE MOUNTED LED TYPE III DISTRIBUTION 25' ROUND STEEL POLE WITH TWO HEADS, 90 DEG.	VOLTAGE	277	LITHONIA	RAD1 LED P3 30K SYM MVOLT RPA DDBXD
		MOUNT	POLE	ABOVE ALL LIGHTING	(2) EPT2-60SP-SW-1-SDAR-III (1) RSP25-4-11-F-DM2090-BC (KW, ABOVE)
		COLOR			
		LUMENS	14000		
S	EXTERIOR 6" CYLINDER, WALL MOUNTED, DARK BRONZE	VOLTAGE	120	GOTHAM	IVO4CYL SC D 15LM 35K 90CRI MD MIN1 MVOLT ZT L9 JBX P AR LD DBL
		MOUNT	RECESSED	ALW	CRS6/W/L-108335XXNN-NV10-L-RAL/BRONZE
		COLOR			
		LUMENS	900		
SE	SAME AS "S" WITH 90 MINUTE BATTERY PACK				
W2	SURFACE MOUNTED LED DOWNLIGHT, ONE PIECE DIE CAST ALUMINUM HOUSING	VOLTAGE	120	BEGA	22 360 K3 BRZ
		MOUNT	SURFACE	LIGMAN LIGHTING	UGI-31601-2X8W-W30-06-120/277V
		COLOR			
		LUMENS	700		
Z	YOKE MOUNTED AXIAL FLOOD (NARROW FLOOD) GLARE SHIELD	VOLTAGE	120	HYDREL	SAF7 LED P3 80CRI 30K MVOLT 15DEG CWL YM CJB 34S L1 GS CSL10 ZT BRT
		MOUNT	SURFACE		
		COLOR			
		LUMENS	5000		

NOTES:

1.	THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER
2.	COLOR OF ALL INTERIOR LED LIGHT FIXTURES TO BE 3500K.
3.	COLOR OF ALL EXTERIOR LED LIGHT FIXTURES TO BE 3000K.
4.	ALL LED LIGHT FIXTURE SHALL HAVE 5 YEARS WARRANTY INCLUDING THE LED LAMPS.

LIGHTING CONTROL SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION	APPROVED MANUFACTURERS	CATALOG NUMBER
CMDT	CEILING MOUNTED DUAL TECHLOLOGY MOTION SENSOR	WATT STOPPER	DT-300
WDT	CEILING MOUNTED DUAL TECHLOLOGY MOTION SENSOR	WATT STOPPER	DT-200
CMUL	CEILING MOUNTED ULTRASONIC LINE VOLTAGE MOTION SENSOR	WATT STOPPER	UT-355-3
CMDLM	CEILING MOUNTED DIGITAL LIGHTING MANAGEMENT DUAL TECHNOLOGY OCCUPANCY SENSOR	WATT STOPPER	LMDC-100
CMU	CEILING MOUNTED ULTRASONIC MOTION SENSOR, LOW VOLTAGE	WATT STOPPER	UT-300-3
CMPI	CEILING MOUNTED PASSIVE INFRARED MOTION SENSOR, LOW VOLTAGE	WATT STOPPER	CI-200
CMUT	CEILING MOUNTED ULTRASONIC MOTION SENSOR, LOW VOLTAGE	WATT STOPPER	WT-1100
CMU2	CEILING MOUNTED ULTRASONIC MOTION SENSOR, LOW VOLTAGE	WATT STOPPER	WT-2250
CMU3	CEILING MOUNTED ULTRASONIC MOTION SENSOR, LOW VOLTAGE	WATT STOPPER	WT-600
LPI	LOW PROFILE PASSIVE INFRARED MOTION SENSOR, LOW VOLTAGE.	WATT STOPPER	FS-205
WMPI	WALL MOUNTED PASSIVE INFRARED LINE VOLTAGE MOTION SENSOR.	WATT STOPPER	PW-100
WMDT	WALL MOUNTED DUAL TECHNOLOGY LINE VOLTAGE MOTION SENSOR.	WATT STOPPER	DW-200
PP	POWER PACK DUAL VOLTAGE	WATT STOPPER	B2-100
DLMRC	DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER WITH TWO RELAYS	WATT STOPPER	LMRC-102
AR	AUXILIARY RELAY PACK	WATTSTOPPER	S12D/277/P

LIGHTING CONTROL NOTES:

1. CONTRACTOR TO SEND PLANS TO MOTION SENSOR SUPPLIER SO THAT THE MANUFACTURER CAN REVIEW AND LOCATE THE SENSORS. DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING SENSORS.
2. ULTRASONIC CEILING MOUNT SENSORS SHALL BE LOCATED NO CLOSER THAN 6'-0" TO AIR SUPPLY/TETURN REGISTERS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUIT WITH RESPECT TO POWER PACK PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS.
5. MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK IS DEPENDENT ON SENSOR MODEL REFER TO INDIVIDUAL DATA SHEETS FOR AMPERAGE CONSUMPTION.
6. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION

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REV	DATE	DESCRIPTION
1	11/11/26	Addendum 01

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

Construction Documents

LIGHT FIXTURE & LIGHTING CONTROL SCHEDULES

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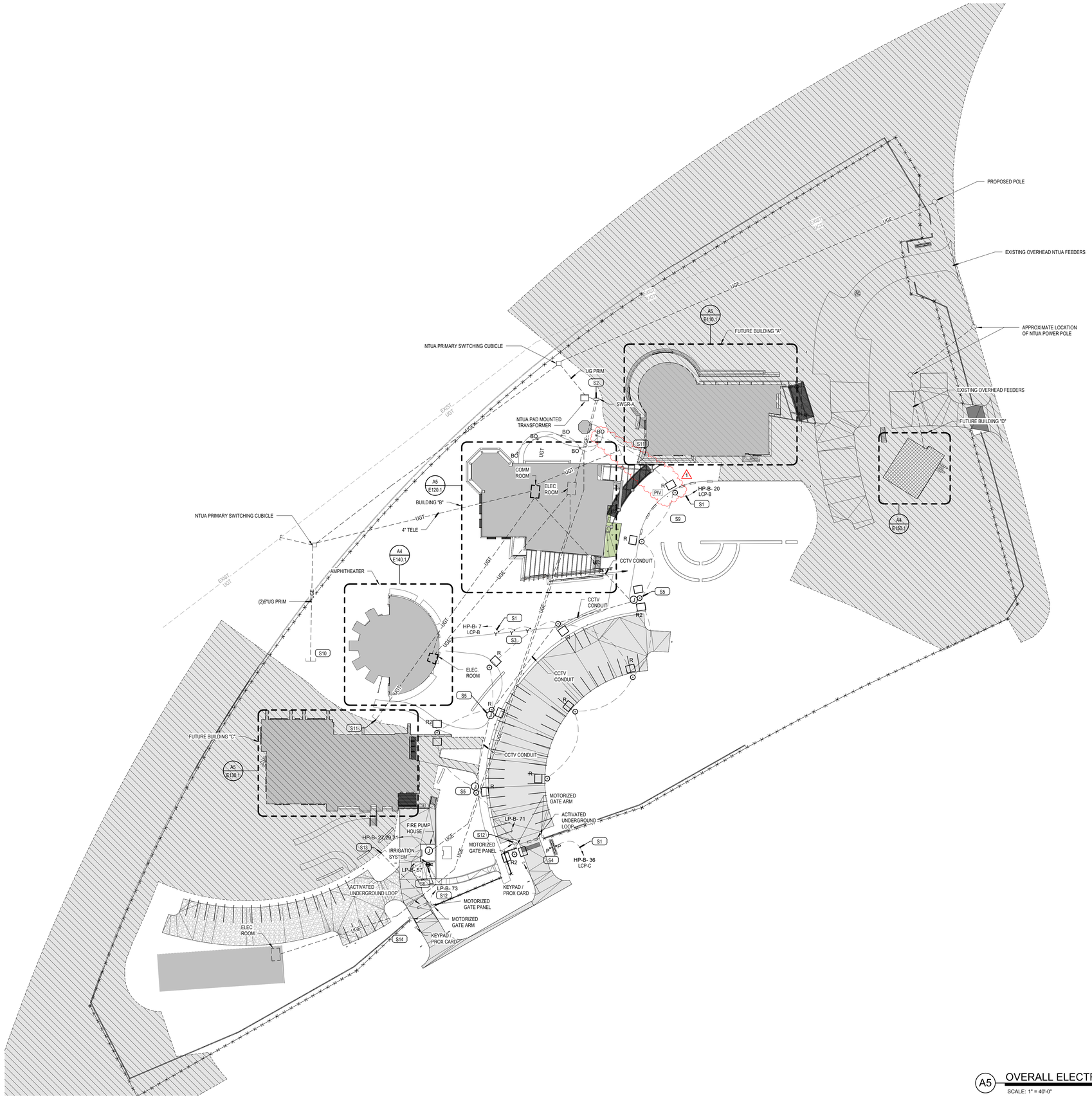

A5 OVERALL ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

NORTH

KEYED NOTES

S1 EXTEND CIRCUIT INDICATED THRU EXTERIOR LIGHTING CONTROL PANEL INDICATED. UTILIZE #8 CONDUCTORS THROUGHTOUT.

S2 FURNISH AND INSTALL NEW FREESTANDING SWITCH GEAR ON 4" CONCRETE PAD. REFER TO THE POWER SINGLE LINE DIAGRAM AND PANEL SHCEDULE FOR MORE INFORMATION.

S3 FURNISH AND INSTALL INGRADE FLAGPOLE LIGHT FIXTURES IN THE APPROXIMATE LOCATIONS SHOWN. REFER TO THE DETAILS FOR MORE INFORMATION.

S4 INSTALL FLOOD LIGHT FIXTURES IN THE APPROXIMATE LOCATION SHOWN ON CONCRETE PEDESTAL. REFER TO THE DETAILS FORE MORE INFORMATION.

S5 RUN A 1" CONDUIT UP INSIDE THE LIGHT POLE TO THE J-BOX FOR A CCTV CAMERA. PROVIDE A PULL WIRE BACK TO THE COMMUNICATION ROOM. COORDINATE INSTALLATION OF CAMERA AND J-BOX LOCATIONS WITH POLE MANUFACTURE AND OWNER'S VENDOR.

S6 PROVIDE GFCI RECEPTACLES WITH "IN-USE" WEATHERPROOF COVER.

S9 FURNISH AND INSTALL MONITOR MODULE FOR THE POST INDICATING VALVE. TIE THE VALVE TO THE MODULE. TIE THE MODULE TO THE FIRE ALARM CONTROL PANEL IN CLASS "A" LOOP. IN AND OUT CIRCUITS SHALL RUN IN SEPARATE CABLES. REFER TO THE DETAILS FOR MORE INFORMATION.

S10 RUN (2) 6" CONDUIT FOR THE NTUA H.V. FEEDERS TO THE PHASE 1 LINE OF DISTURBANCE AND CAP FOR FUTURE USE IN FOLLOWING PHASES. MARK LOCATION.

S11 RUN (2) 4" CONDUIT FOR TELECOM TO THE PHASE 1 LINE OF DISTURBANCE AND CAP FOR FUTURE USE IN FOLLOWING PHASES. MARK LOCATION.

S12 APPROXIMATE LOCATION OF MOTORIZED GATE CONTROL PANEL. TIE TO CIRCUIT SHOWN. TIE THE DOOR OPERATOR KEY PAD TO THE DOOR GATE CONTROL PANEL AND TO THE SECURITY PANEL IN BUILDING B. TIE ACTIVATED UNDERGROUND LOOP TO CONTROL PANEL. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION, REFER TO MANUFACTURER'S WIRING DIAGRAM FOR EXACT REQUIRED CABLES AND TERMINATION POINTS. COORDINATE THIS WORK WITH DOOR INSTALLER FOR TERMINATION POINTS. COORDINATE EXACT LOCATIONS OF THE (2) TWO GATES AND DOOR OPERATOR KEY PADS WITH ARCHITECT.

S13 RUN (1) 1" CONDUIT FROM THE MOTORIZED GATE INTERCOM TO THE PHASE 1 LINE OF DISTURBANCE NEAREST TO FUTURE BUILDING C. CAP FOR FUTURE USE IN FOLLOWING PHASES AND MARK LOCATION.

S14 APPROXIMATE LOCATION OF MOTORIZED GATE INTERCOM. RUN (1) 1" CONDUIT FROM THE MOTORIZED GATE INTERCOM TO THE RECEPTION DESK IN BUILDING B.

SPECIAL NOTES

1. REFE TO NTUA STANDARDS AND DETAILS ON SHEETS E500.3, E500.4 AND E500.5 FOR ADDITIONAL INFORMATION.
2. ALL UNDERGROUND TRENCHES SHALL BE INSPECTED BY NTUA BEFORE BACK FILL.
3. DISTANCE BETWEEN PULL BOXES SHALL BE KEPT BELOW 400' WITH LESS THAN (2) TWO 90 DEGREE BENDS OR 180 DEGREES TOTAL.

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REV	DATE	DESCRIPTION
1	11/11/26	Addendum 01

NAVAJO NATION PEACEMAKING ADMINISTRATION BUILDING

Navajo Nation, Window Rock AZ

Construction Documents

OVERALL ELECTRICAL SITE PLAN

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