

TERMS OF REFERENCE

Consultancy Firm Services for the Detailed Design, Tender Documentation and Construction Supervision of the Troumaca Bay Blue Economy Facility

Under the Unleashing the Blue Economy in the Caribbean Project – Saint Vincent and the Grenadines

1. Background

The Government of Saint Vincent and the Grenadines (GoSVG) is implementing the Unleashing the Blue Economy in the Caribbean Project – Saint Vincent and the Grenadines Component (UBEC SVG), financed by the World Bank. UBEC supports sustainable and integrated use of marine resources for economic growth, improved livelihoods and employment while protecting the health and biodiversity of marine and coastal ecosystems. The project focuses on interrelated Blue Economy sectors including tourism, fisheries and waste management, together with enabling infrastructure and institutional systems required to strengthen climate resilience and economic recovery.

Under UBEC SVG, the Government intends to develop and improve facilities at Troumaca Bay to support both fisherfolk and tourism-related activities. The proposed intervention is intended to create a safe, functional, climate-resilient and environmentally sustainable coastal facility while maintaining the working character of the bay and supporting compatible use by local fisherfolk, visitors, tourism operators and the wider community.

The preliminary facility concept includes a rehabilitated fisherfolk jetty and dedicated access, a fisherfolk vessel deployment ramp, fisherfolk restroom/locker facilities, fishing-vessel moorings, a visitor jetty, adaptation of the second floor of the Visitor Centre as a restaurant, parking, gazebos, perimeter security fencing, site lighting, shoreline/beach nourishment measures and supporting management arrangements. The final configuration shall be confirmed and optimized through surveys, technical investigations, stakeholder engagement, environmental and social due diligence, design development and Client approval.

The assignment shall be undertaken in accordance with applicable laws, planning and permitting requirements of Saint Vincent and the Grenadines; the World Bank Environmental and Social Framework (ESF); the UBEC Environmental and Social Management Framework (ESMF); Stakeholder Engagement Plan (SEP); Labor Management Procedures (LMP); Resettlement/Process Framework applicable to UBEC; Environmental and Social Commitment Plan (ESCP); applicable World Bank Group Environmental, Health and Safety Guidelines; and Good International Industry Practice (GIIP).

1.1 Existing and Concurrently Tendered Beach Facility Works

Under a separate, discrete civil works contract tendered by the National Parks, Rivers and Beaches Authority (NPRBA), Troumaca Bay will receive a beach facility building, two gazebos, a parking area and associated site electrical works, procured and delivered independently of this consultancy. The Consultant shall treat these elements as existing/committed infrastructure, confirm their actual status with the Client during Inception (Section 3.1), and design, integrate and supervise the remaining Blue Economy Facility works (Section 3) so that the completed site functions as a single, coherent facility.

The Beach Facility Building contract, as documented in the tender drawings issued to the Consultant with this TOR (Annex A), comprises:

- A single two-storey building providing, at ground floor, male and female washrooms, an accessible washroom, a reception/vending and information area and a covered porch, and, at first floor, an open-air viewing deck;
- Two open-sided gazebos with associated benches, seating and lighting/power;
- An informal surface parking area; and
- Associated site electrical works, comprising internal and external lighting (including solar bollard lighting), power and communications distribution, fire detection/alarm devices and portable fire-fighting equipment, serving the building, gazebos and site.

All other elements required to complete the Blue Economy Facility - including the fisherfolk jetty, vessel deployment ramp and moorings, the visitor jetty, the designated swimming area, perimeter security fencing, beach nourishment and shoreline management measures, and adaptation of the Visitor Centre for restaurant use - are the Consultant's full responsibility under Section 3.

Consistent with the above, the Consultant's design scope under Sections 3.5.2 and 3.5.3 excludes elements already delivered under the Beach Facility Building contract. The Consultant's role in relation to that contract's output is limited to incorporating it, as built, into the integrated site master plan (Section 3.3) and to designing the connecting works (utilities tie-ins, pathways, signage and perimeter security fencing) needed to complete a single, coordinated Blue Economy Facility.

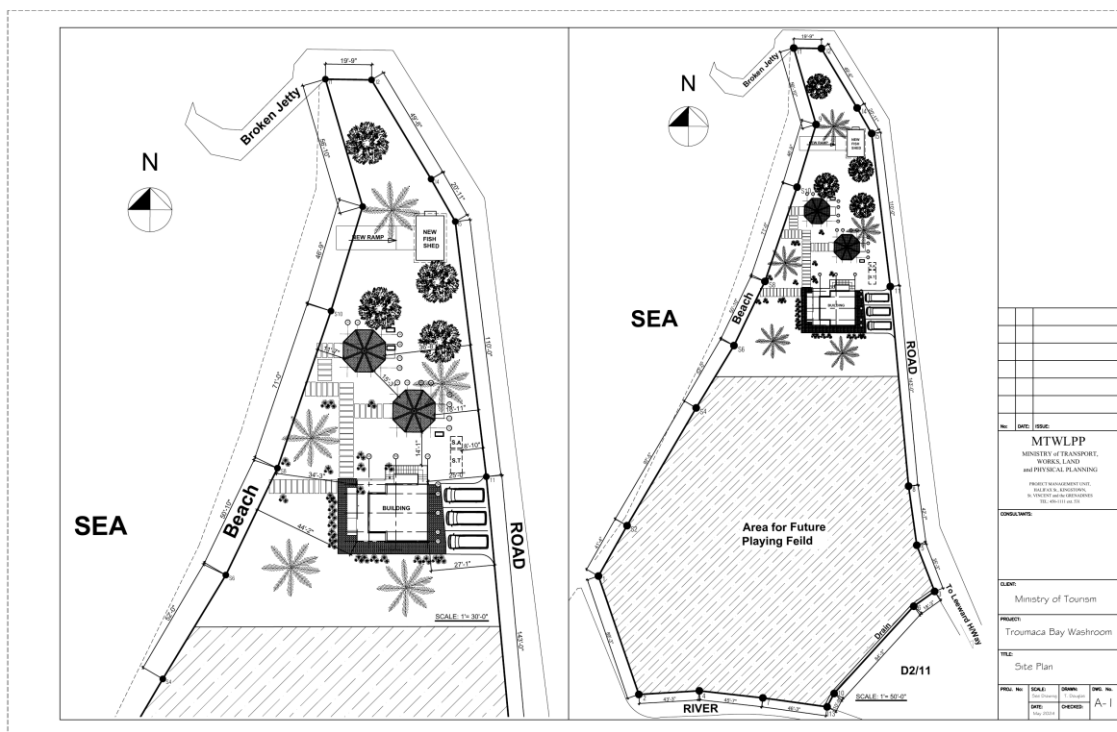


Figure 1: Beach Facility Building Site Plan (Dwg. A-1, MTWLPP, Project: Troumaca Bay Washroom) - for orientation only. Refer to Annex A for the full, dimensioned drawing set.

2. Purpose and Objectives of the Assignment

The purpose of this consultancy is to engage a qualified multi-disciplinary consulting firm to undertake the detailed design, tender documentation and construction supervision required to complete the Troumaca Bay Blue Economy Facility. Building on the Beach Facility Building works delivered under the separate, concurrent contract described in Section 1.1, the Consultant shall design, integrate and supervise construction of the remaining marine, landside and landscape works so that Troumaca Bay becomes a single, coherent, safe and climate-resilient facility that serves fisherfolk operations while functioning as an attractive, welcoming tourist destination.

2.1 Specific Objectives

1. Establish the technical, physical, marine, geotechnical, structural, utilities, environmental and social conditions required to inform the detailed design of the Troumaca Bay Blue Economy Facility.
2. Prepare an integrated site master plan and complete architectural, civil, structural, marine, electrical, mechanical/plumbing and drainage designs for the facility.
3. Design safe, climate-resilient and maintainable marine access infrastructure, including the fisherfolk jetty, vessel deployment ramp, fishing-vessel moorings and visitor jetty.
4. Design the building and landside elements not delivered under the concurrent Beach Facility Building contract - including the Visitor Centre/restaurant, perimeter security fencing, extended site lighting and drainage - and integrate the already-delivered building, gazebos and parking area into the site design.
5. Prepare a landscape design that enhances the visitor appeal and coherence of the site, so that the completed facility reads as a single, attractive tourist destination.
6. Integrate environmental and social risk management, stakeholder engagement, universal accessibility, occupational and community health and safety, and climate resilience requirements into the design and tender documents.
7. Prepare Bills of Quantities, engineer's estimates, technical specifications, tender drawings and other documentation required to procure the construction works.
8. Provide technical support during tendering and contractor selection.
9. Provide effective construction supervision, quality assurance, contract administration, and testing, commissioning and handover support.

3. Scope of Services

The Consultant shall undertake all professional services reasonably necessary to produce a complete, coordinated, safe, climate-resilient and constructible design and to supervise the corresponding works. The tasks below establish the minimum required scope and shall not relieve the Consultant of professional responsibility for identifying additional investigations, design inputs or supervision activities necessary for satisfactory completion of the assignment.

3.1 Inception, Document Review and Design Basis

- Review all available UBEC project documents, previous concept information, site records, surveys, environmental and social instruments, stakeholder records, land/ownership information, utilities information, photographs and other materials provided by the Client.
- Hold an inception meeting with the UBEC PIU and relevant government agencies and undertake an initial site walkover with key technical and stakeholder representatives.

- Confirm the intended functions, user groups, operational interfaces and required facility components, including separation and shared-use arrangements for fisherfolk and tourism users.
- Prepare a Design Basis Memorandum defining design criteria, assumptions, applicable standards, design life, climate and hazard parameters, loads, accessibility requirements, materials philosophy, durability requirements, environmental and social constraints, required permits and agency approvals.
- Prepare a detailed work plan, survey/investigation plan, stakeholder engagement plan, design review schedule, quality assurance plan, data-request register and design risk register.
- Confirm the physical status, quality and adequacy of works being delivered under the concurrent Beach Facility Building contract (Section 1.1) through review of that contract's drawings and specifications and, once accessible, a site inspection, and document any implications for the design and cost of the Blue Economy Facility works.

3.2 Site Investigations, Surveys and Existing-Condition Assessments

The Consultant shall undertake and/or coordinate the investigations necessary to support detailed design. The findings shall be consolidated in a Site Reconnaissance and Technical Investigations Report and shall be reflected in the design basis and drawings.

- Topographic and cadastral/feature survey of the site, access areas, shoreline, existing structures, utilities, drainage paths, slopes, vegetation, boundaries and adjacent uses at a scale and accuracy suitable for detailed design.
- Hydrographic/bathymetric survey of the marine works area, including seabed levels, nearshore profile, navigation constraints, existing structures and relevant underwater features.
- Assessment of tides, waves, currents, wind, storm surge, extreme-water levels, sea-level rise considerations and other metocean conditions needed to establish design loads and safe operating conditions for marine facilities.
- Geotechnical investigations appropriate to foundations, jetty structures, vessel ramp, retaining works, pavement, cliff/slope stability and other structural elements, including laboratory testing where required.
- Condition survey and structural assessment of existing jetties, the Visitor Centre building and any other structures proposed for rehabilitation, reuse, connection or partial demolition.
- Existing utilities survey, including electricity, water supply, wastewater/sewage arrangements, drainage, communications and any utility constraints or required upgrades.
- Assessment of site access, traffic circulation, pedestrian routes, parking, service access, emergency access and construction logistics.
- Environmental and social site screening and baseline verification sufficient to inform design, mitigation, permitting and construction requirements. Where the UBEC PIU/World Bank screening determines that an ESIA, ESMP, ESMP update or other site-specific instrument is required, the Consultant shall prepare or support preparation of the required instrument to the standard directed by the Client.
- Photographic and georeferenced record of existing site conditions, sensitive receptors, shoreline features, community interfaces and existing livelihood uses.

- Where construction of the Beach Facility Building has commenced or been completed by the time of the Consultant's site investigations, undertake an as-built verification survey of the building, gazebos, parking area and associated electrical/site works sufficient to inform the integrated site master plan and the design of interfacing marine and landside works.

3.3 Integrated Site Planning and Concept Design

- Prepare and assess feasible site-layout and design options that balance fisherfolk operations, visitor experience, safety, accessibility, environmental protection, climate resilience, constructability, maintenance and lifecycle cost.
- Develop an integrated site master plan showing marine infrastructure, buildings, circulation, parking, pedestrian routes, fisherfolk work areas, tourism areas, public realm, gazebos, security, lighting, utilities, drainage, waste storage, emergency access, landscaping and shoreline measures.
- Clearly define interfaces and separation measures between fishing operations and visitor/tourism activities to reduce conflicts, improve safety and preserve livelihood access.
- Present concept options, design criteria, preliminary costs, key risks and recommended option to the Client and stakeholders before advancing to detailed design.
- Prepare visualizations, sections, elevations and other presentation material necessary for the Client and stakeholders to understand the proposed development.
- Incorporate the Beach Facility Building, gazebos, parking area and associated site electrical works as fixed, existing/committed elements of the integrated site master plan, and design the marine infrastructure, remaining landside works and circulation to interface coherently with them.

3.4 Marine and Coastal Infrastructure Design

Marine design shall be based on site-specific surveys and justified design criteria. The Consultant shall select and justify the structural form, materials and arrangement for each marine element, taking account of safe operations, hurricane and storm resilience, marine corrosion, wave action, scour, sediment movement, maintenance access and environmental constraints.

3.4.1 Fisherfolk Jetty

- Assess the existing fisherfolk jetty and determine the extent of rehabilitation, strengthening, replacement or extension required.
- Define the design vessels, operational loads, user capacity, deck loading, berthing/tie-off requirements, water depths, freeboard/deck levels, access requirements and safe operating envelope.
- Provide a dedicated access walkway with appropriate width, anti-slip surface, edge protection/handrails where required, lighting, drainage and safe transition between landside areas and the jetty.
- Design fenders, bollards/cleats, ladders, lifesaving equipment, safety signage and other appurtenances required for fisherfolk operations.
- Address marine durability, corrosion protection, concrete/steel/timber exposure conditions, pile/foundation design, scour protection and maintainability.
- Coordinate the jetty layout with the vessel deployment ramp, moorings, fishing work areas and visitor circulation to minimize operational conflicts.

3.4.2 Fisherfolk Vessel Deployment Ramp

- Design a vessel launch/retrieval ramp suitable for the agreed pirogue/fishing-vessel range and towing/handling arrangements.
- Establish ramp gradient, width, surface treatment, toe level, turning and staging requirements, side protection, drainage and traction requirements based on site conditions and vessel operations.
- Address wave exposure, sediment movement, scour, erosion, structural stability and safe use during wet conditions.
- Provide safe pedestrian separation, signage, lighting and any required barriers or controls to avoid conflicts with visitors and parked vehicles.

3.4.3 Fishing Vessel Moorings

- Design two fishing-vessel mooring systems, each intended to accommodate up to ten pirogue-size vessels, subject to verification of operational requirements and safe spacing.
- Confirm mooring field layout, water depth, vessel envelope, swing circles, navigation routes, seabed conditions, anchor/foundation system, chain/rope components, buoyancy, corrosion protection and inspection requirements.
- Establish design loads for wind, waves, current and extreme events and specify component factors of safety, design life and replacement/inspection intervals.
- Minimize seabed and habitat disturbance and avoid unsafe interaction with swimming areas, the visitor jetty and navigation routes.
- Provide drawings, specifications, installation methodology, inspection/testing requirements and an operations and maintenance schedule for the moorings.

3.4.4 Visitor Jetty

The Consultant shall prepare a fully engineered visitor jetty design suitable for safe tendering and boarding by the expected visitor vessels. The design shall not rely on generic dimensions; the Consultant shall establish and justify the design vessel(s), operational capacity and environmental design conditions through surveys, stakeholder consultation and recognized engineering practice.

- Operational design basis: identify the expected tender/small-vessel types, dimensions, draft, passenger capacity, berthing frequency, peak simultaneous use, loading/unloading activity and any service or emergency-vessel requirements.
- Marine setting: establish minimum and operating water depths, tidal range, wave climate, currents, wind, extreme-water levels, storm surge, hurricane conditions, sea-level rise allowance, seabed conditions and acceptable operational limits for safe use.
- Jetty configuration: evaluate and justify whether a fixed, floating or combined system is most appropriate; define alignment, length, width, deck elevation/freeboard, access gangway/walkway arrangement, approach geometry, passenger queuing/holding area and shore connection.
- Berthing and tie-off: design fendering, bollards, cleats and/or other tie-off facilities for the selected vessels, including appropriate spacing, load ratings, corrosion resistance and protection of vessels and jetty structure.
- Passenger boarding and accessibility: provide safe boarding interfaces over the expected tidal range, non-slip surfaces, stable transitions, handrails/edge protection

where appropriate, accessible routes to the extent practicable, and measures to assist children, older persons and persons with reduced mobility.

- Structural design: design piles/foundations, deck, beams, bracing, connections and any floating components for dead, live, berthing, mooring, wave, wind, impact, crowd and extreme-event loads. Provide signed structural calculations and design drawings.
- Durability: specify materials, concrete exposure class, reinforcement protection, coatings, sacrificial/corrosion protection, fasteners and details suitable for a highly corrosive marine environment and the intended design life.
- Safety provisions: include emergency ladders from the water, life rings or equivalent lifesaving equipment, safety signage, edge marking, lighting, emergency access and other measures appropriate to passenger use.
- Navigation safety: coordinate the jetty location and approach with fisherfolk operations, moorings, swimming areas and marine traffic; identify any required navigation markers, exclusion zones, signage or agency approvals.
- Utilities and services: design jetty lighting and any essential electrical/water services that are confirmed by the Client, with marine-grade equipment, isolation, grounding, protection from water ingress and safe routing. Fuel dispensing and vessel sewage discharge facilities shall not be included unless specifically authorized by the Client and competent authorities.
- Scour, sediment and shoreline interaction: assess potential effects on currents, sediment transport, beach stability and adjacent shoreline and include scour/erosion protection or design modifications where necessary.
- Constructability and environmental controls: develop construction-stage requirements for marine access, temporary works, piling or anchoring, turbidity/sediment control, spill prevention, waste/debris containment, vessel safety and protection of marine habitats.
- Inspection and maintenance: provide an inspection regime, routine maintenance requirements, post-storm inspection procedures, replacement schedules for fenders/cleats/lighting and other maintainable components, and access provisions for safe maintenance.

3.4.5 Designated Safe Swimming Area

- Confirm the location and limits of the designated swimming area based on bathymetry, currents, vessel routes, jetty operations, shoreline access, user safety and environmental conditions.
- Design appropriate boundary markers/buoys, warning and information signage, access points and separation from vessel operations and mooring areas.
- Identify any lifeguard, lifesaving equipment, emergency communication or operating restrictions that should be incorporated into the facility management arrangements.

3.5 Building and Landside Facility Design

3.5.1 Visitor Centre Building and Second-Floor Restaurant

The Consultant shall assess the existing Visitor Centre building and prepare a coordinated architectural, structural and building-services design for safe adaptation and operation of the second floor as a restaurant. The design shall be performance-based and shall establish the appropriate occupancy, layout and building-service capacities from verified existing conditions, the approved operational brief and applicable codes.

- Existing-condition and structural assessment: survey the building; verify dimensions, structural system, foundations where relevant, roof, floor capacity, stairs, envelope, defects, corrosion, water ingress and hurricane vulnerability; determine strengthening, repair or replacement measures required before restaurant use.
- Architectural planning: prepare plans, elevations, sections and details for dining/seating, kitchen and food preparation, service/counter areas, dry/cold storage as required, washing/cleaning areas, staff/service circulation, customer circulation, refuse handling, and any supporting spaces needed for safe and efficient operation.
- Occupancy and circulation: determine maximum safe occupancy based on floor area, egress, structural capacity, sanitation and fire/life-safety requirements; provide clear circulation routes and avoid conflicts between food service, staff movement and customer areas.
- Accessibility: provide an accessible route and accessible facilities to the extent required and practicable; assess the need for ramps, platform lift or other solutions where level changes or second-floor access would otherwise exclude persons with disabilities, and document any site constraints requiring Client decision.
- Fire and life safety: provide compliant means of escape, travel distances, stairs/guards, emergency lighting, exit signage, fire detection/alarm provisions, extinguishers and, where required, suppression systems; coordinate kitchen fire-safety provisions and emergency response access.
- Kitchen/food-service services: coordinate kitchen equipment loads and layouts; provide safe power, water, drainage, grease management, ventilation/extraction, make-up air, washable finishes and hygienic separation appropriate to food-service use. Equipment schedules shall distinguish fixed building services from movable operational equipment.
- Water supply and plumbing: assess available water pressure/capacity; size potable water storage and distribution where required; design sinks, washbasins and other fixtures; provide backflow prevention, isolation valves and maintainable plumbing layouts.
- Wastewater and grease management: verify the capacity and suitability of existing sewage arrangements; design sanitary drainage, grease trap/interceptor and wastewater disposal/treatment measures as required; prevent untreated discharge to the bay or stormwater system.
- Electrical systems: prepare load schedules, distribution, wiring, socket outlets, kitchen circuits, internal/external lighting, emergency lighting, earthing, surge protection and protective devices; use equipment and enclosures appropriate to the coastal environment and coordinate with the utility provider.
- Mechanical ventilation and indoor comfort: provide natural and/or mechanical ventilation, kitchen exhaust, heat control and other systems needed for occupant comfort and safe restaurant operation while prioritizing energy-efficient solutions.
- Stormwater and building drainage: design roof drainage, gutters/downpipes, surface drainage and discharge arrangements that prevent erosion, ponding, nuisance flows and uncontrolled discharge onto slopes or pedestrian areas.
- Climate and coastal resilience: specify hurricane-resistant roof/envelope connections, impact-resistant or protected openings where appropriate, corrosion-resistant materials and fixings, moisture-resistant finishes, flood/wind resilience measures and details that reduce lifecycle maintenance in a marine environment.

- Finishes and maintainability: specify durable, slip-resistant, washable and weather-resistant materials appropriate to public, kitchen and coastal exposure areas and ensure safe access for cleaning, inspection and maintenance.
- External interfaces: coordinate stairs, terraces/verandas, railings, signage, service access, waste storage, deliveries, emergency access and connections to pathways, parking, lighting and other site facilities.
- Testing and commissioning requirements: define inspections, pressure tests, electrical tests, fire/life-safety checks, ventilation testing and other commissioning requirements to be included in the works contract and witnessed during supervision.

3.5.2 Fisherfolk Restroom and Locker Facility

Washroom facilities for fisherfolk and visitors (male, female and accessible washrooms), together with a reception/vending area and locker/storage provision, are delivered under the concurrent Beach Facility Building contract (Section 1.1, Annex A). This element is fully captured by that contract and is not part of the Consultant's design scope. The Consultant shall incorporate the completed facility, as built, into the integrated site master plan (Section 3.3), confirm during the site walkover (Section 3.1) that it is fit for its intended use, and report any observed defects or non-conformities to the Client without undertaking redesign.

3.5.3 Parking, Gazebos, Fencing, Lighting and Public Realm

A parking area, two gazebos, and the site lighting, power and fire-safety systems serving the Beach Facility Building are delivered under the concurrent Beach Facility Building contract (Section 1.1, Annex A). These elements are fully captured by that contract and are not part of the Consultant's design scope; the Consultant shall incorporate them, as built, into the integrated site master plan (Section 3.3). Perimeter security fencing is not included in that contract and remains a full design responsibility of the Consultant, as does extending the site lighting and public realm to the new marine and landside works described in this TOR.

- Design perimeter security fencing and gates that secure the facility without unnecessarily obstructing public safety, emergency access, views or legitimate livelihood access.
- Extend the site electrical and lighting design to the jetties, moorings, vessel ramp, swimming area and any other new areas of the facility, maintaining consistency with the fixture types, circuiting and control philosophy already adopted under the Beach Facility Building contract.
- Provide coordinated pathways, ramps/steps, handrails, landscape treatments, signage, refuse/recycling points and drainage connecting the existing building, gazebos and parking area with the new marine and landside works.

3.5.4 Landscape Design and Visitor Experience Enhancement

The Consultant shall prepare a comprehensive landscape design that enhances the visitor appeal and coherence of the site as a tourist destination, building on and integrating with the Beach Facility Building, gazebos and parking area delivered under the concurrent contract (Section 1.1), rather than treating landscaping as an afterthought.

- Prepare a landscape master plan for the site, including planting design, shade trees, softscape and hardscape treatments, seating areas, view corridors to the bay and

coordinated transitions between the existing building, gazebos, parking, new marine infrastructure and the beach itself.

- Select climate-resilient, salt- and wind-tolerant, low-maintenance native or naturalized planting species suitable for a hurricane-prone coastal environment, and specify planting details, irrigation (if required) and establishment/maintenance requirements.
- Design wayfinding, interpretive and directional signage, entrance features, gateway treatments and other visitor-experience elements that create a coherent, attractive arrival and circulation experience across the whole site.
- Coordinate landscape and shoreline planting with the Beach Nourishment and Shoreline Management Plan (Section 3.6) to support erosion control, habitat value and visual amenity along the shoreline.
- Provide landscape lighting recommendations that complement the site electrical design (Section 3.5.3) and enhance evening visitor use and safety without adverse impacts on marine/coastal receptors.

3.6 Beach Nourishment and Shoreline Management Plan

- Assess existing shoreline condition, erosion/accretion patterns, sediment characteristics, wave exposure, drainage effects and interactions with proposed marine structures.
- Evaluate appropriate soft-engineering, nature-based and, where justified, limited structural measures to reduce erosion and support natural shoreline rehabilitation.
- For any proposed beach nourishment, define compatible sediment characteristics, estimated volumes, placement profiles, source requirements, access/placement methodology, environmental controls, monitoring and renourishment triggers.
- Assess potential effects on adjacent shoreline, marine habitats, water quality, swimming areas and navigation and incorporate mitigation and permitting requirements.
- Provide drawings, specifications, monitoring indicators, maintenance responsibilities and post-storm inspection requirements.

3.7 Marine Facility Management and Operations Plan

The Consultant shall prepare a practical Marine Facility Management and Operations Plan for implementation by the designated management entity, expected to include the National Parks, Rivers and Beaches Authority in coordination with relevant agencies. The Plan shall support safe and compatible fishing and tourism uses and shall include, at minimum:

- Governance structure, management-agency roles, responsibilities and coordination arrangements.
- Facility operating hours, access controls, user-group zoning/separation and rules for fisherfolk, visitors, tourism operators and service providers.
- User fees and charging options, including principles for transparent fee setting and cost recovery; final fee levels shall remain a Client/management decision.
- Jetty and mooring operating rules, vessel size/use restrictions, inspection requirements, storm preparation and post-storm reopening procedures.
- Swimming-area management, vessel exclusion arrangements and water-safety procedures.
- Security arrangements, lighting management, incident reporting, emergency response, lifesaving equipment and coordination with relevant emergency/maritime agencies.

- Washroom/locker and restaurant/common-area cleaning, waste management, wastewater management and maintenance responsibilities.
- Preventive maintenance schedules for buildings, jetties, moorings, electrical systems, plumbing, drainage, fencing, lighting, gazebos, parking and beach/shoreline measures.
- Guidelines/protocols for fishing tours and tourism-related use of the facility, including safety, fisherfolk participation and conflict-management measures.
- Environmental management measures, monitoring requirements, pollution prevention and climate/disaster preparedness.
- Stakeholder communication, grievance channels and procedures for periodically reviewing operating rules based on user feedback and monitoring results.

3.8 Environmental and Social Requirements and Design Integration

Environmental and social risk management shall be integrated into the design, tender documents and supervision activities rather than treated as a separate add-on. The Consultant shall work closely with the UBEC Environmental Specialist and Social Specialist and shall incorporate relevant requirements into drawings, specifications, Bills of Quantities, method requirements, contract clauses and supervision checklists.

- Apply the mitigation hierarchy: avoid impacts where feasible, minimize impacts that cannot be avoided, restore affected areas and address residual impacts as required.
- Assess and manage potential impacts on marine and coastal habitats, water quality, shoreline processes, fisheries resources, public access, community safety, livelihoods and tourism activities.
- Screen for temporary, seasonal or permanent restrictions on access to fishing grounds, landing sites, navigation routes, customary marine-use areas and livelihood activities. Where ESS5 is triggered, support preparation and implementation of the required resettlement/livelihood instrument in accordance with the UBEC framework and World Bank requirements.
- Incorporate contractor requirements for C-ESMP preparation, labor management, worker code of conduct, OHS, traffic and marine-vessel safety, spill prevention, waste management, erosion/sediment/turbidity control, biodiversity protection, chance finds, community safety, incident reporting and emergency response.
- Identify design-stage permits and approvals and maintain a permits/approvals register through the design and supervision phases.
- Ensure construction supervision reports include environmental and social compliance findings, corrective actions, responsible parties, deadlines and status of closure.

3.9 Detailed Design, Costing and Tender Documentation

- Prepare coordinated architectural, civil, structural, marine/coastal, geotechnical, mechanical, plumbing, electrical, drainage, landscaping/site and other design drawings required for construction.
- Prepare design calculations, design reports, material and workmanship specifications, schedules and technical notes sufficient for independent review and construction.
- Prepare Bills of Quantities, engineer's cost estimates and lifecycle/maintenance considerations for major systems and marine components.
- Prepare tender-ready technical specifications, drawings, schedules, contractor environmental and social requirements, quality-control requirements,

testing/commissioning requirements and proposed technical sections of the works bidding documents.

- Identify provisional sums, specialist items and Client-supplied items, if any, and clearly distinguish them in the cost and tender documents.
- Maintain a design comments-response matrix and resolve interdisciplinary clashes or inconsistencies before final issue.
- Prepare an approvals and permitting package, including drawings and supporting information required for submission to relevant authorities.

3.10 Tender-Stage Technical Support

- Attend pre-bid/site meetings when requested by the Client.
- Respond to technical clarification requests and prepare draft technical addenda or revised drawings/specifications where required.
- Support the Client in assessing technical equivalence, proposed construction methodologies, key personnel, equipment, materials and other technical aspects of bids, without replacing the formal procurement evaluation responsibilities of the Client.
- Update the engineer's estimate where material scope or market information changes before contract award.
- Participate in the pre-construction meeting and confirm that the issued-for-construction set reflects all approved tender-stage clarifications.

3.11 Construction Supervision and Contract Administration

During construction, the Consultant shall provide appropriately qualified supervision personnel and shall maintain sufficient site presence for the nature and stage of the works. The Consultant shall propose a supervision staffing plan in its technical proposal; however, attendance by relevant specialists at critical hold points shall be mandatory. Supervision shall include, at minimum:

- Review and recommend approval of the Contractor's work programme, mobilization plan, C-ESMP, OHS plan, marine works plan, traffic/access plan, emergency plan, quality plan, method statements, shop drawings, material submittals and temporary-works proposals.
- Verify setting-out, survey control, dimensions, levels, quantities and site conditions before and during construction.
- Supervise marine works including piling/foundations, structural framing/decks, reinforcement/concrete, corrosion-protection systems, fendering, bollards/cleats, ladders, moorings, navigation/safety appurtenances and associated testing.
- Supervise building/architectural works including structural repairs/strengthening, roofing/envelope, partitions, stairs/rails, accessibility features, kitchen/restaurant fit-out interfaces, finishes, doors/windows, weatherproofing and coastal durability details.
- Supervise civil works including earthworks, retaining/slope works, access, pavements, walkways, vessel ramp, site grading, stormwater drainage, erosion controls, fencing, gates, signage, landscaping and shoreline/beach measures.
- Supervise plumbing and wastewater works including water storage/supply, pipework, fixtures, sanitary drainage, grease management, sewage treatment/disposal and testing for leaks, flow and functionality.

- Supervise electrical and building-services works including distribution boards, cabling, protective devices, earthing, lighting, emergency lighting, external/marine electrical equipment, ventilation/extraction and fire/life-safety systems.
- Monitor quality of materials and workmanship; review certificates; witness sampling and laboratory/field tests; reject non-conforming work; maintain non-conformance and corrective-action registers.
- Monitor Contractor compliance with environmental and social requirements, including habitat protection, turbidity/sediment control, spill prevention, waste/debris management, worker OHS, community and marine safety, labor requirements, access restrictions, livelihood-impact measures, chance finds, incident reporting and grievance-related corrective actions.
- Conduct progress meetings, maintain site instructions and records, review progress against the approved programme and identify delay risks and recovery measures.
- Measure completed works, verify quantities and recommend interim payment certificates in accordance with the works contract.
- Review variations, claims, requests for information and technical issues; provide reasoned recommendations on cost, time, quality, environmental/social and operational implications before Client approval.
- Coordinate required inspections and approvals by utility providers, planning/building authorities, maritime/port authorities, environmental agencies and other competent bodies.
- Witness testing and commissioning of structural, marine, electrical, plumbing, wastewater, lighting, fire/life-safety, ventilation and other systems and maintain a commissioning record.
- Prepare snag/punch lists, verify correction of defects, review as-built drawings, warranties, test certificates, O&M manuals, spare-parts requirements and training materials before handover.
- Participate in substantial completion, final inspection, handover and any agreed defects-liability inspection and prepare final completion/close-out reports.

3.12 Sequencing and Coordination with the Beach Facility Building Contract

The Beach Facility Building contract described in Section 1.1 is expected to be at an advanced stage of procurement, under construction, or complete by the time this consultancy reaches detailed design and construction supervision, and its construction period may overlap with the Consultant's Inception, Site Investigations and Concept Design phases. The Consultant shall confirm the actual status of that contract during Inception and shall plan and sequence its work accordingly so that the two contracts proceed without conflict and converge into a single, coherent completed tourist facility.

- During Inception, confirm with the Client the current programme status of the Beach Facility Building contract and align the Consultant's site investigation and stakeholder engagement activities to avoid conflict with the building Contractor's site occupation, access, laydown areas and working hours.
- Coordinate directly with NPRBA, the building Contractor (once appointed) and the UBEC PIU on shared site logistics, utilities connections, access routes and safety arrangements for any period during which both contracts are active on site.

- Where the Beach Facility Building is complete before the Consultant reaches detailed design, base the integrated site master plan and interfacing designs on a verified as-built survey of that facility rather than on the tender drawings alone.
- Where the Beach Facility Building remains under construction when the Consultant's works contract mobilizes, agree a phased construction access and handover arrangement with the Client and the building Contractor that keeps both sets of works, and the public, safe.
- Ensure that the final Blue Economy Facility design, tender documentation and as-built records explicitly identify which elements were delivered under the Beach Facility Building contract and which under this assignment's works contract, so that the Client holds a single, complete facility record.

4. Applicable World Bank Environmental and Social Standards

The Consultant shall assess and document the relevance of the World Bank Environmental and Social Standards (ESSs) to the Troumaca Bay intervention and ensure that design and supervision requirements respond to the applicable standards. At minimum, the following standards are expected to be relevant or require screening:

ESS	Expected Relevance to the Troumaca Bay Design and Works
ESS1	Overall assessment and management of environmental and social risks and impacts; integration of mitigation into design, tender documents, supervision and reporting.
ESS2	Labor and working conditions, contractor management, worker OHS, marine/construction safety, worker grievance mechanism and code of conduct.
ESS3	Resource efficiency and pollution prevention, including wastewater, sewage, stormwater, erosion, turbidity, spills, waste, noise, dust, materials efficiency and energy/water use.
ESS4	Community health and safety, including public access, marine passenger safety, traffic, swimming-area safety, structural safety, emergency response, fire/life safety and disaster resilience.
ESS5	Screening and management of land acquisition, land-use restrictions, temporary or permanent access restrictions, economic displacement and livelihood impacts affecting fisherfolk or other users.
ESS6	Biodiversity conservation and sustainable management of living natural resources, including marine/coastal habitats, ecosystem services, protected/sensitive species and critical habitat screening where relevant.
ESS7	Screening to confirm relevance or non-relevance in the national and project context.
ESS8	Cultural heritage screening and implementation of Chance Finds Procedures during ground-disturbing and marine works.
ESS9	Screening to confirm relevance or non-relevance depending on project financing arrangements.

ESS	Expected Relevance to the Troumaca Bay Design and Works
ESS10	Stakeholder engagement, disclosure, meaningful consultation, documentation of feedback and project-level grievance mechanism.

5. Stakeholder Engagement, Disclosure and Grievance Redress

The Consultant shall support a meaningful, inclusive and documented stakeholder engagement process consistent with ESS10 and the UBEC SEP. Engagement shall occur early enough to influence site layout and design and shall continue through design finalization and construction as required.

- Stakeholders shall include fisherfolk and fisher organizations, Troumaca residents and community leaders, tourism operators, users of the bay, nearby businesses, women, youth, persons with disabilities and other potentially vulnerable groups, as well as relevant government and utility agencies.
- Key institutional stakeholders are expected to include the UBEC PIU; Ministry responsible for Tourism; Ministry responsible for Fisheries, Land and Marine Conservation and Climate Resilience; National Parks, Rivers and Beaches Authority; Physical Planning; Maritime Administration/Port Authority and Coast Guard as relevant; Ministry responsible for Works; Central Water and Sewerage Authority; electricity utility; Environmental Health; NEMO; and other authorities identified by the Client.
- The Consultant shall undertake targeted consultations during inception/site investigations, concept design and draft detailed design, and shall document how stakeholder feedback has been incorporated or why specific proposals were not adopted.
- Consultations shall explain proposed facility components, construction implications, access arrangements, potential environmental and social risks, livelihood/access issues, operating arrangements, safety measures and available grievance channels.
- Where construction may temporarily restrict access to fishing grounds, landing areas, navigation routes, parking, businesses or other livelihood areas, the Consultant shall support development of appropriate access management and livelihood mitigation measures before works begin.
- The Consultant shall use the UBEC project-level GRM and shall ensure GRM information is incorporated into consultation and construction communication materials. Construction supervision reports shall document grievances relevant to the works, actions referred to the Contractor/Client and status of corrective measures, while preserving confidentiality.

6. Deliverables and Reporting Requirements

All deliverables shall be submitted in editable source format and PDF. Drawings shall be provided in editable CAD/BIM-compatible formats and PDF; spatial information shall be supplied in GIS-compatible formats where applicable. Cost schedules shall be provided in editable spreadsheet format. The Consultant shall maintain a comments-response matrix for each formal review round. The Beach Facility Building tender document and drawings referenced in Section 1.1 are issued to the Consultant with this TOR as Annex A and shall be read together with it.

Deliverable	Description	Indicative Timing
1. Inception Report and Design Basis Memorandum	Methodology, work plan, data requests, confirmed scope, design criteria, applicable standards, survey/investigation plan, stakeholder plan, QA plan, design risk register and permits/approvals pathway. Confirm the status of the concurrent Beach Facility Building contract (Section 1.1, Annex A) and its implications for scope, programme and cost.	Week 2
2. Site Reconnaissance and Technical Investigations Report	Topographic/hydrographic surveys, metocean assessment, geotechnical findings, existing structural condition assessments, utilities, access/drainage findings, environmental/social screening and photographic/GIS record.	Week 6
3. Concept Design and Options Report	Integrated site options, marine and building concepts, visitor-jetty and fisherfolk-facility concepts, preliminary structural approach, shoreline options, landscape and public realm concepts, E&S considerations, stakeholder feedback, preliminary cost estimate and recommended option.	Week 10
4. Intermediate Design Package	Developed architectural, civil, structural, marine, MEP, drainage, landscape and site designs; outline specifications; updated calculations; updated cost estimate; design review workshop and comments-response matrix.	Week 14
5. Draft Detailed Design and Tender Package	Draft complete drawings, calculations, technical specifications, BoQ, engineer's estimate, contractor E&S requirements, testing/commissioning requirements, permits package, Beach Nourishment/Shoreline Plan and draft Marine Facility Management Plan.	Week 18
6. Final Design and Procurement-Ready Tender Package	Final coordinated and signed/sealed design documents, final BoQ and estimate, tender drawings/specifications, final management plans, comments-response matrix and all documents required for Client/World Bank review and tendering.	Week 20
7. Tender-Stage Technical Support	Responses to clarifications, technical addenda, pre-bid support, technical evaluation input when requested and final issued-for-construction set incorporating approved tender clarifications.	During procurement

Deliverable	Description	Indicative Timing
8. Pre-Construction / Mobilization Review Report	Review of Contractor programme, C-ESMP, OHS plan, marine works plan, QA plan, method statements, shop drawing schedule, permits and readiness to commence.	Within 2 weeks of works mobilization
9. Monthly Construction Supervision Reports	Progress, quality, programme, site inspections, tests, E&S/OHS compliance, grievances/access issues, instructions, variations/claims, photographs, risks, corrective actions and payment-status summary.	Monthly throughout construction
10. Payment Certification and Variation/Claims Reports	Verified quantities, interim payment recommendations and technical assessments of variations/claims as required by the works contract.	As required
11. Testing, Commissioning and Handover Report	Commissioning records, snag/punch list, correction status, regulatory inspections, training, warranties, O&M documentation and readiness for handover.	At substantial completion
12. As-Built Drawings, O&M Package and Final Completion Report	Verified as-built drawings, final O&M/inspection schedules, final cost/variation summary, outstanding defects, E&S close-out status, lessons learned and final completion certification/recommendation.	At completion / close-out

7. Institutional and Reporting Arrangements

The Consultant shall report to the UBEC Project Implementation Unit through the Project Manager or designated representative. Technical coordination shall be undertaken with the UBEC Environmental Specialist, Social Specialist and relevant technical ministries/agencies. The Client shall designate focal points for design review, site access, institutional coordination and works-contract administration.

The Consultant shall work closely with, as relevant:

- UBEC Project Implementation Unit;
- Ministry responsible for Tourism;
- Ministry responsible for Fisheries, Land and Marine Conservation and Climate Resilience;
- National Parks, Rivers and Beaches Authority;
- Ministry responsible for Works / relevant public works engineering units;
- Physical Planning / Building authority;
- Maritime Administration, Port Authority and Coast Guard, as relevant;
- Central Water and Sewerage Authority;
- Electricity and telecommunications utilities, as relevant;
- Ministry responsible for Health / Environmental Health;
- National Emergency Management Organisation;

- Local community, fisherfolk and tourism representatives; and
- Other regulatory, technical or stakeholder entities identified by the Client.

Formal acceptance of deliverables shall remain with the Client. Where World Bank review/no-objection is required, the Consultant shall revise deliverables based on consolidated comments from the Client, relevant agencies, stakeholders and the World Bank without additional fee where such revisions are within the agreed scope and are necessary to meet the stated TOR requirements.

8. Required Expertise and Firm Qualifications

8.1 Firm Profile

The Consulting Firm shall possess integrated multi-disciplinary capability in marine/coastal engineering, structural and civil engineering, architecture, landscape architecture, building services, geotechnical engineering, construction supervision, quantity surveying/costing, environmental and social risk management, stakeholder engagement, occupational health and safety and project/contract administration.

The Firm shall demonstrate experience delivering coordinated design and supervision services for coastal/marine infrastructure and public/tourism/fisheries facilities in corrosive, hazard-prone environments. Experience in Small Island Developing States (SIDS), Caribbean contexts and World Bank or other multilateral development bank financed assignments will be strongly preferred.

8.2 Minimum Corporate Experience

- At least ten (10) years of corporate experience in engineering/architectural design and/or construction supervision for marine, coastal, tourism, fisheries or comparable public infrastructure.
- Completion of at least three (3) comparable assignments involving jetties, piers, marine structures, coastal facilities, fisheries infrastructure, visitor facilities or integrated coastal developments, with at least one assignment including construction supervision.
- Demonstrated experience preparing procurement-ready drawings, technical specifications, Bills of Quantities and engineer's estimates for competitively tendered works.
- Demonstrated experience integrating environmental, social, OHS and climate/disaster resilience requirements into infrastructure design and construction supervision.
- Experience with World Bank ESF or comparable multilateral development bank environmental and social requirements.
- Experience in Caribbean/SIDS marine environments, hurricane-prone settings, coastal corrosion conditions and constrained community sites will be an advantage.

8.3 Key Experts

The Consulting Firm shall provide, at minimum, the following key experts. The same individual may cover more than one function only where the proposal clearly demonstrates that the individual satisfies the qualification and experience requirements for each role and the staffing schedule provides adequate inputs. The Consultant may propose additional non-key specialists required to complete the assignment.

Team Leader / Senior Civil or Coastal Engineer	
Qualifications	• Advanced degree in civil engineering, coastal engineering, structural engineering, marine engineering or a related discipline. • Professional registration/licensure or equivalent recognized chartered status is required.
Experience and Key Responsibilities	• Minimum 12 years of relevant professional experience, including leadership of multi-disciplinary design and construction-supervision assignments. • Proven experience in coastal/marine infrastructure and public or tourism/fisheries facilities, preferably including jetties or piers. • Experience with donor/MDB-financed infrastructure and coordination of technical, environmental and social requirements. • Responsible for overall technical and contractual leadership, interdisciplinary coordination, quality assurance, Client liaison, design integration and final acceptance of all deliverables.

Marine / Coastal Structural Engineer	
Qualifications	• Bachelor's degree or higher in civil, structural, coastal, marine or ocean engineering or a related discipline. • Professional registration/licensure or equivalent recognized certification is strongly preferred.
Experience and Key Responsibilities	• Minimum 10 years of relevant experience in design of jetties, piers, piles/foundations, marine structures, moorings and/or coastal works. • Demonstrated experience with wave/wind/current/storm-surge loading, marine durability, corrosion protection, berthing/fender systems, scour and extreme-event design. • Responsible for fisherfolk and visitor jetty design, mooring design, marine structural calculations, marine construction specifications, shoreline interactions and specialist supervision of marine works.

Architect / Building Design Lead	
Qualifications	• Bachelor's degree or higher in architecture from a recognized institution. • Professional registration/licensure to practice architecture is required where applicable.

Experience and Key Responsibilities	• Minimum 8 years of relevant professional experience in public, hospitality, tourism, commercial or community facilities. • Experience in renovation/adaptive reuse, accessibility, fire/life safety, coastal/hurricane-resilient detailing and coordination of building-services systems. • Responsible for Visitor Centre/restaurant design, perimeter security fencing, integration of the already-delivered Beach Facility Building and gazebos into the public realm, architectural detailing, accessibility, finishes, signage and coordination with structural and MEP disciplines.
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Landscape Architect	
Qualifications	• Bachelor's degree or higher in landscape architecture or a related discipline. • Professional registration/membership, where applicable, is preferred.
Experience and Key Responsibilities	• Minimum 5 years of relevant experience in landscape design for coastal, tourism or public realm projects, preferably in hurricane-prone or Caribbean/SIDS contexts. • Experience selecting climate-resilient, salt- and wind-tolerant planting and coordinating landscape works with civil, structural and shoreline engineering disciplines. • Responsible for the landscape master plan, planting design, softscape/hardscape details, wayfinding and visitor-experience elements, and coordination of landscape and shoreline planting with the Beach Nourishment and Shoreline Management Plan.
Geotechnical Engineer / Engineering Geologist	
Qualifications	• Bachelor's degree or higher in geotechnical engineering, civil engineering, engineering geology, geology or a related discipline. • Professional registration or recognized geotechnical certification is preferred.

Experience and Key Responsibilities	• Minimum 7 years of experience in foundation investigations, slope/cliff stability, marine/coastal soils, retaining works, pavement/subgrade and geotechnical risk assessment. • Experience specifying and interpreting boreholes, sampling, laboratory tests and geotechnical design parameters for marine or coastal structures is preferred. • Responsible for geotechnical investigation strategy, interpretation, design parameters, slope/cliff stability inputs, foundation recommendations and supervision of geotechnically sensitive works.
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Hydrographic Surveyor / Geomatics Specialist	
Qualifications	• Bachelor's degree or recognized professional qualification in hydrographic surveying, geomatics, land surveying or a related discipline. • Relevant professional registration/certification is preferred.
Experience and Key Responsibilities	• Minimum 7 years of experience in topographic and/or hydrographic surveys for coastal and marine infrastructure. • Demonstrated ability to establish survey control, bathymetry, shoreline profiles, existing-feature surveys and construction setting-out information. • Responsible for survey planning, quality control of topographic/hydrographic data, base drawings, setting-out control and survey verification during construction.

Mechanical, Electrical and Plumbing (MEP) Engineer	
Qualifications	• Bachelor's degree or higher in mechanical, electrical, building services engineering or a related discipline. The Firm may provide separate electrical and mechanical/plumbing engineers where needed. • Professional registration/licensure is preferred.

Experience and Key Responsibilities	• Minimum 7 years of experience in building electrical, lighting, plumbing, wastewater, ventilation, fire/life-safety and associated systems. • Experience with hospitality/restaurant facilities, public buildings and corrosive coastal environments is preferred. • Responsible for restaurant/kitchen service coordination, electrical distribution, site and marine lighting, water supply, wastewater/grease management, ventilation/extraction, emergency lighting and commissioning requirements.
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Quantity Surveyor / Cost Engineer	
Qualifications	• Bachelor's degree or recognized professional qualification in quantity surveying, construction economics, cost engineering or a related discipline. • Professional membership/certification is preferred.
Experience and Key Responsibilities	• Minimum 7 years of experience preparing Bills of Quantities, engineer's estimates, cost plans and variation/claims assessments for infrastructure or building projects. • Experience with marine/coastal works and donor-financed procurement is preferred. • Responsible for cost planning, BoQ preparation, estimate updates, tender pricing schedules, measurement, payment-certification support and cost assessment of variations/claims.

Environmental and Social Specialist / World Bank ESF Specialist	
Qualifications	• Advanced degree in environmental management, environmental science, natural resource management, social development, environmental engineering or a related discipline. • Formal training in World Bank ESF, ESIA/ESMP, environmental and social safeguards or equivalent MDB requirements is strongly preferred.
Experience and Key Responsibilities	• Minimum 8 years of relevant experience in environmental and social assessment/management for infrastructure projects, preferably including marine/coastal works. • Demonstrated knowledge of ESS1–ESS10 screening, ESMP requirements, contractor E&S clauses, pollution prevention, biodiversity, access/livelihood risks, stakeholder engagement and incident reporting. • Responsible for E&S design integration, screening/instrument support, tender E&S requirements, supervision monitoring, corrective actions and coordination with the UBEC Environmental and Social Specialists.

Social Development / Stakeholder Engagement Specialist	
Qualifications	• Bachelor's degree or higher in sociology, social development, anthropology, community development, gender studies, public policy or a related discipline. • Training in ESS5/ESS10, stakeholder engagement, grievance redress or livelihood assessment is preferred.
Experience and Key Responsibilities	• Minimum 7 years of experience in stakeholder engagement, social baseline/impact assessment, community consultation, vulnerable-group engagement, livelihood/access analysis and grievance processes. • Experience engaging fisherfolk, tourism operators and coastal communities is strongly preferred. • Responsible for stakeholder mapping and consultation, feedback integration, access/livelihood screening, GRM integration and support to construction-stage community communication.

Occupational Health and Safety / Construction Safety Specialist	
Qualifications	• Bachelor's degree, professional diploma or recognized certification in occupational health and safety, engineering, construction safety, environmental health or a related discipline. • Recognized OHS certification is preferred.
Experience and Key Responsibilities	• Minimum 7 years of experience in construction OHS and community safety, including marine works or high-risk civil works where possible. • Experience with working over/near water, lifting, piling, diving (if applicable), electrical safety, work at height, public interface, emergency response and incident investigation. • Responsible for reviewing Contractor OHS systems, critical-risk controls, emergency procedures, inspections, incident follow-up and OHS reporting during supervision.

Resident Engineer / Construction Supervision Lead	
Qualifications	• Bachelor's degree or higher in civil, structural or construction engineering or a related discipline. • Professional registration or recognized site-supervision qualification is preferred.

Experience and Key Responsibilities	• Minimum 10 years of construction supervision/contract administration experience, including coastal/marine, building or complex civil works. • Experience with measurement, payment certification, variations, claims, quality control, testing, programme monitoring and multidisciplinary coordination. • Responsible for day-to-day/periodic site leadership in accordance with the approved staffing plan, supervision records, progress meetings, quality and contract administration, coordination of specialist inspections and monthly reporting.
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9. Duration and Indicative Schedule

The total active professional-services duration is expected to be approximately fourteen (14) months, comprising a Design Phase of approximately five (5) months and a Construction Supervision Phase of approximately nine (9) months. Tender-stage support will occur between these phases and may overlap with the procurement process. The overall calendar duration may extend if procurement, approvals or the works contract are delayed; such delays shall be addressed in accordance with the consultancy contract. The Inception and Site Investigations phases should be planned in conjunction with the programme of the concurrent Beach Facility Building contract (Section 1.1), which has an intended six (6)-month construction period from its Date of Possession.

Phase	Indicative Period
Inception and mobilization	Weeks 1–2
Surveys, technical investigations and existing-condition assessments	Weeks 2–6
Concept/options design and stakeholder review	Weeks 6–10
Developed/intermediate design	Weeks 10–14
Detailed design, management plans, costing and tender documents	Weeks 14–20
Tender-stage technical support	During works procurement
Construction supervision and contract administration	Approximately 9 months from works mobilization
Testing, commissioning, handover and close-out	Final month of works / close-out period

10. Suggested Payment Schedule

The following milestone structure is indicative and may be adjusted by the Client in the Request for Proposals and contract. Payments shall be linked to acceptance of satisfactory deliverables.

Milestone	Payment
Approval of Inception Report and Design Basis Memorandum	5%
Approval of Site Reconnaissance and Technical Investigations Report	10%
Approval of Concept Design and Options Report	10%
Approval of Intermediate Design Package	15%
Approval of Final Design and Procurement-Ready Tender Package, including management plans	15%
Completion of Tender-Stage Technical Support and issue of final construction set	5%
Construction supervision services, paid proportionately against approved monthly supervision outputs	30%
Approval of As-Built/O&M Package and Final Completion Report	10%
Total	100%

11. Evaluation Criteria for Consulting Firm Selection

Criteria	Weight
Specific experience of the Firm in marine/coastal infrastructure design, including jetties/piers, fisheries facilities, tourism facilities or comparable coastal developments	20%
Experience in construction supervision and contract administration for marine/coastal, building and civil works	10%
Demonstrated experience with World Bank ESF or other multilateral development bank environmental and social requirements	10%
Adequacy and quality of proposed methodology, design approach, investigations, climate-resilience approach, stakeholder engagement, supervision strategy and work plan	20%
Qualifications and competence of key experts	30%
Experience in Caribbean/SIDS, hurricane-prone and corrosive marine environments	5%
Quality assurance, design coordination, reporting and knowledge-transfer arrangements	5%
Total	100%

12. Quality Assurance, Design Review and Knowledge Transfer

- The Consultant shall operate a documented internal quality assurance/quality control system for surveys, calculations, drawings, specifications, BoQ, cost estimates and reports.
- All discipline outputs shall be checked and coordinated before submission. The Team Leader shall certify that the issued design package is internally consistent and complete for its stated stage.
- Critical marine and structural calculations and drawings shall be independently checked by appropriately qualified personnel within the Firm who were not the original designer, where practicable.
- The Consultant shall hold design review meetings/workshops at concept, intermediate and draft-final stages and maintain a comments-response matrix.
- The Consultant shall provide practical knowledge transfer to designated government/management staff on inspection, preventive maintenance, storm preparation, safe operations and interpretation of the O&M documentation.

13. Design and Tender Readiness Requirements

The Final Design and Procurement-Ready Tender Package shall be complete, internally consistent, technically sound and suitable for Client and World Bank review/no-objection, where required, before works procurement or construction proceeds. At minimum, the package shall demonstrate the following:

Requirement	Expected Output
Confirmed facility scope, user requirements and design basis	Inception Report / Design Basis Memorandum
Adequate topographic, hydrographic, geotechnical, metocean, structural and utilities information	Technical Investigations Report / Design Package
Justified integrated site layout, separating fisherfolk/tourism uses, with the Beach Facility Building, gazebos and parking incorporated as built	Concept and Final Site Plan
Fully engineered fisherfolk jetty, visitor jetty, vessel ramp and moorings	Marine drawings, calculations, specifications and BoQ
Visitor Centre/restaurant design fully coordinated (structural, MEP, fire/life-safety, accessibility)	Architectural, structural, MEP, fire/life-safety and accessibility package
Perimeter security fencing designed	Fencing drawings and specifications
Landscape design enhances visitor appeal and is integrated with the Beach Facility Building	Landscape master plan, planting specifications, wayfinding and public realm details

Requirement	Expected Output
Climate/hurricane/coastal durability measures incorporated	Design calculations, material specifications and details
Shoreline/beach management measures supported by technical assessment	Beach Nourishment/Shoreline Management Plan
Environmental and social requirements integrated into works documents	E&S instruments/clauses, drawings, specifications and BoQ
Land/access/livelihood screening and required mitigation/instruments	ESS5 screening and associated instrument, if triggered
Biodiversity/marine habitat screening and mitigation	ESS6 assessment and design/ESMP measures
Stakeholder feedback documented and reflected in design	Consultation records and comments-response matrix
Permits/approvals pathway identified and submissions prepared	Permits/approvals register and submission package
Construction testing, commissioning and handover requirements defined	Specifications, schedules and tender requirements
Operations and maintenance responsibilities defined	Marine Facility Management Plan and O&M requirements
Costing and tender documentation complete	BoQ, engineer's estimate, technical specifications and tender drawings

14. Final TOR Clause for World Bank and Client Approval

The Consultant shall prepare all deliverables in accordance with applicable national legislation and permitting requirements, the World Bank Environmental and Social Framework, the UBEC ESMF, SEP, LMP, applicable resettlement/process framework, ESCP, applicable World Bank Group Environmental, Health and Safety Guidelines and Good International Industry Practice. The Consultant shall revise all outputs in response to consolidated comments from the UBEC PIU, relevant national agencies, stakeholders and the World Bank. The final design package shall be suitable for procurement and construction and shall satisfy all required Client and World Bank review/no-objection processes. All approved deliverables and editable source files shall become the property of the Government of Saint Vincent and the Grenadines in accordance with the consultancy contract.

Annex A: Existing / Concurrently Tendered Beach Facility Reference Documents

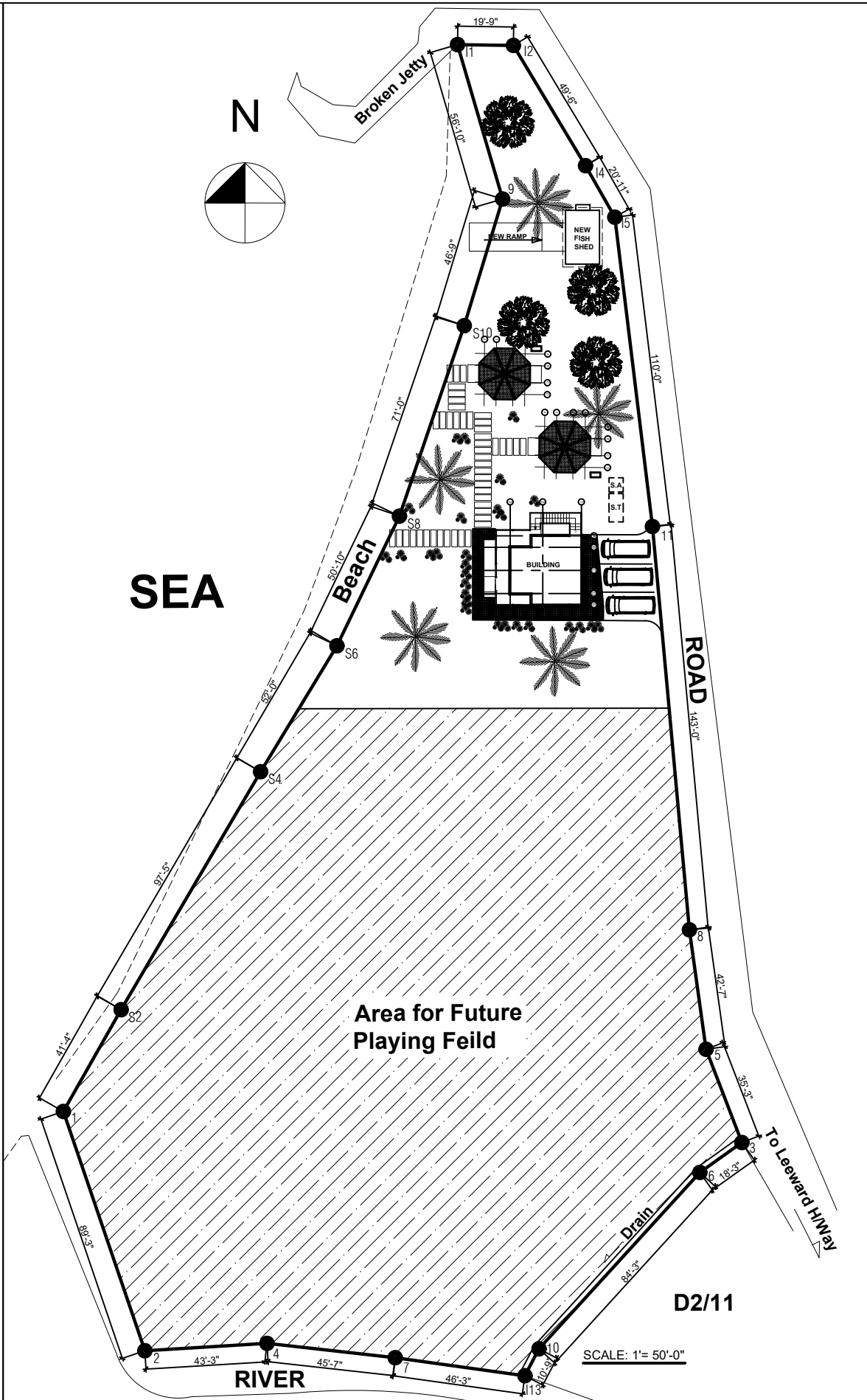
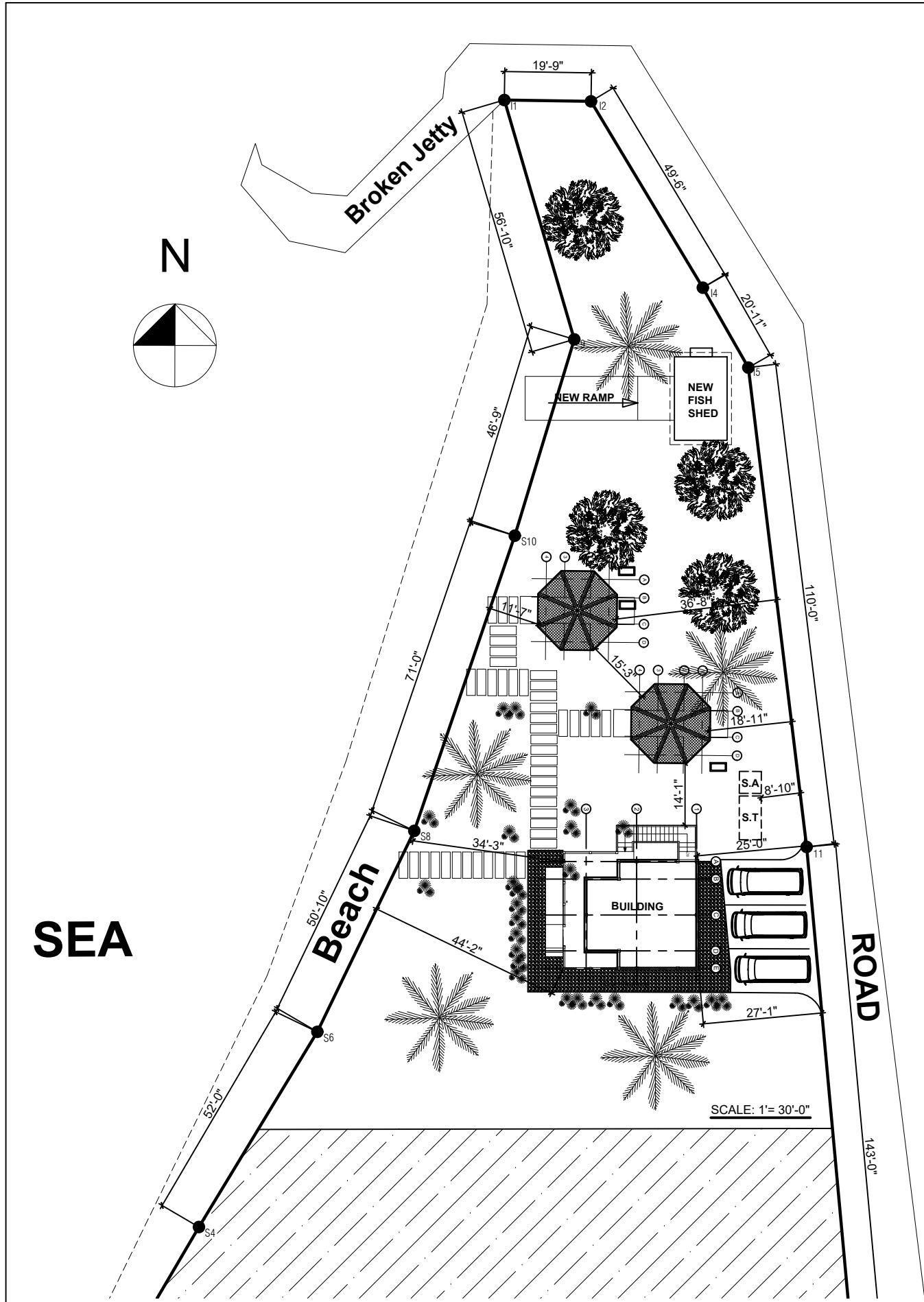
This annex indexes the drawings furnished to the Consultant, as separate PDF files, alongside this TOR. It does not reproduce the drawings themselves; it lists the sheets so the Consultant can identify and request them and cross-reference them against the tasks in Sections 1.1, 3.5.2, 3.5.3 and 3.5.4.

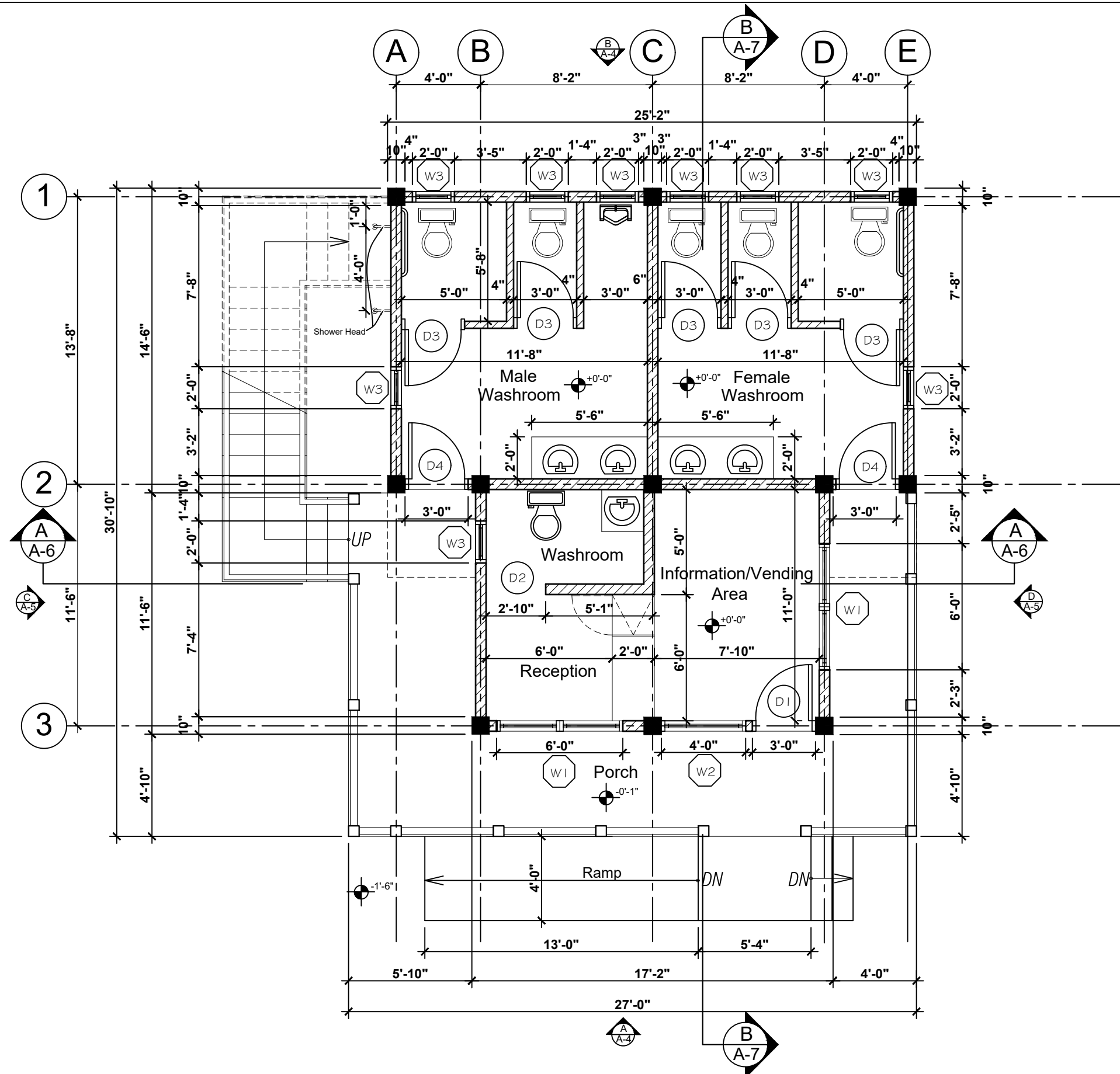
A.1 Architectural Drawings (Project: Troumaca Bay Washroom)

Dwg. No.	Title
A-1	Site Plan
A-2	Ground Floor Plan (Washrooms/Vending)
A-3	First Floor Plan (Viewing Deck)
A-4	Front & Rear Elevations
A-5	Left & Right Elevations
A-6	Section A-A
A-7	Section B-B
A-8	Ground Floor Finishing Plan
A-9	First Floor Finishing Plan
A-10	Washroom Sections
A-11	Male and Female Washroom Sections
A-12	Sanitary Schedule
A-13	Window and Door Schedule
A-14	Stair and Ramp Plans
A-15	Stair and Ramp Elevations

A.2 Electrical Drawings (Project: Troumaca Bay Beach Facilities Electrical Works)

Dwg. No.	Title
E-001	Sheet List
E-002	Symbol Legends
E-003	General Notes and Abbreviations
E-004	Bill of Quantities
E-005	Typical Mounting Heights
EF101	Ground Floor Fire Safety Plan
EL101	Ground Floor Lighting Plan
EL102	Gazebos Lighting Plan
EP100A	Single Line Diagram and Panel Schedule
EP101	Ground Floor Power & Communication Plan
EP102	Gazebos Power Plan
EP103	Site Plan





GROUND FLOOR PLAN (Washrooms/Vending)

No: DATE: ISSUE:

MTWLPP
MINISTRY of TRANSPORT,
WORKS, LAND
and PHYSICAL PLANNING

PROJECT MANAGEMENT UNIT,
HALIFAX ST., KINGSTOWN,
St. VINCENT and the GRENADINES
TEL: 456-1111 ext. 531

CONSULTANTS:

CLIENT:

Ministry of Tourism

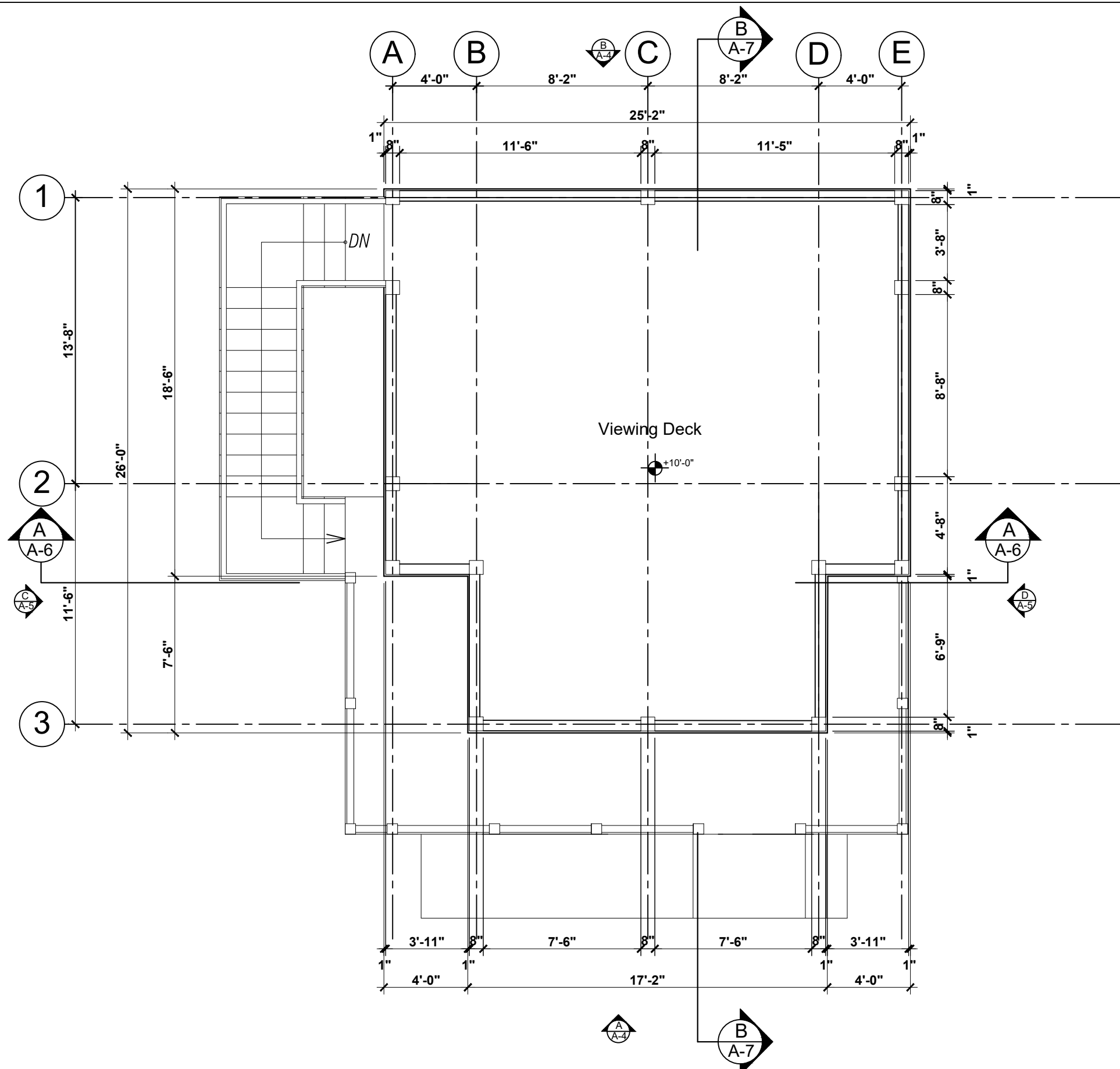
PROJECT:

Troumaca Bay Washroom

TITLE:

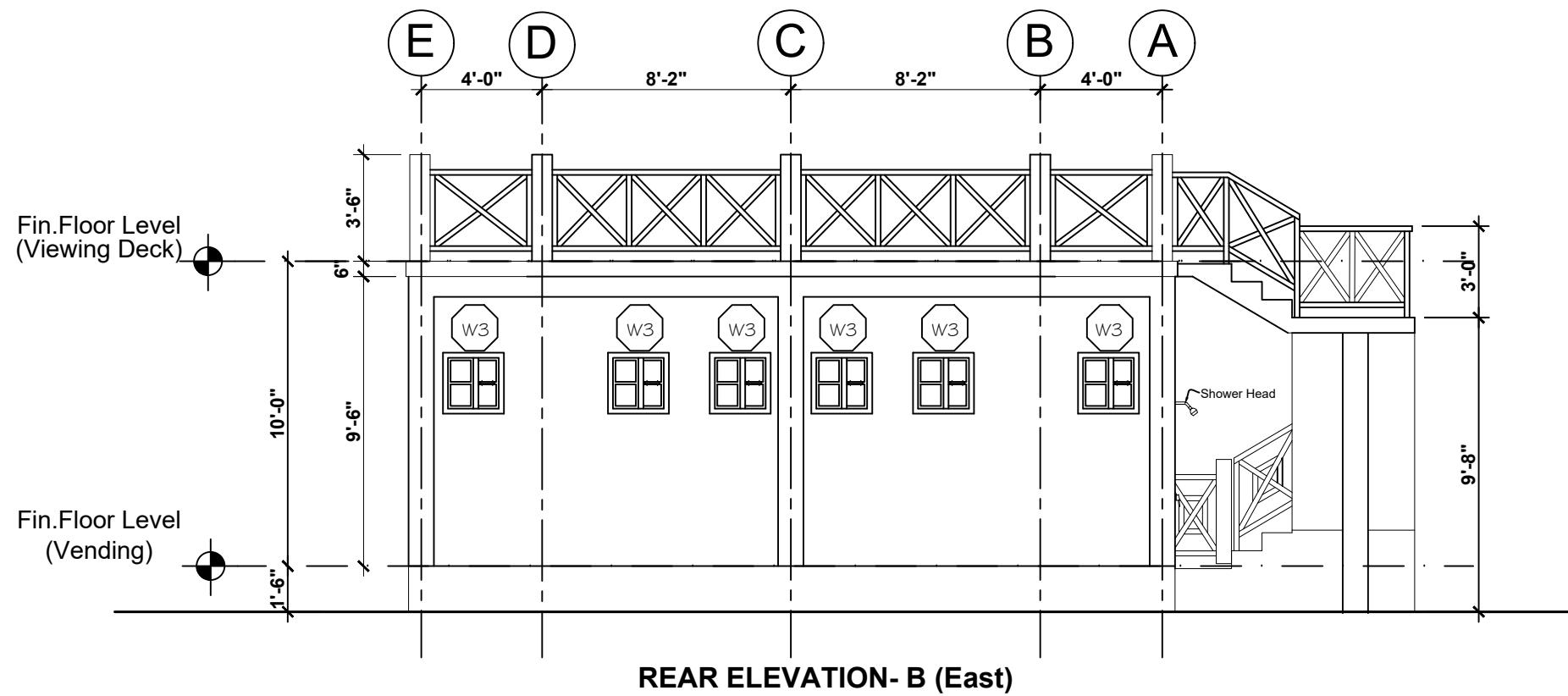
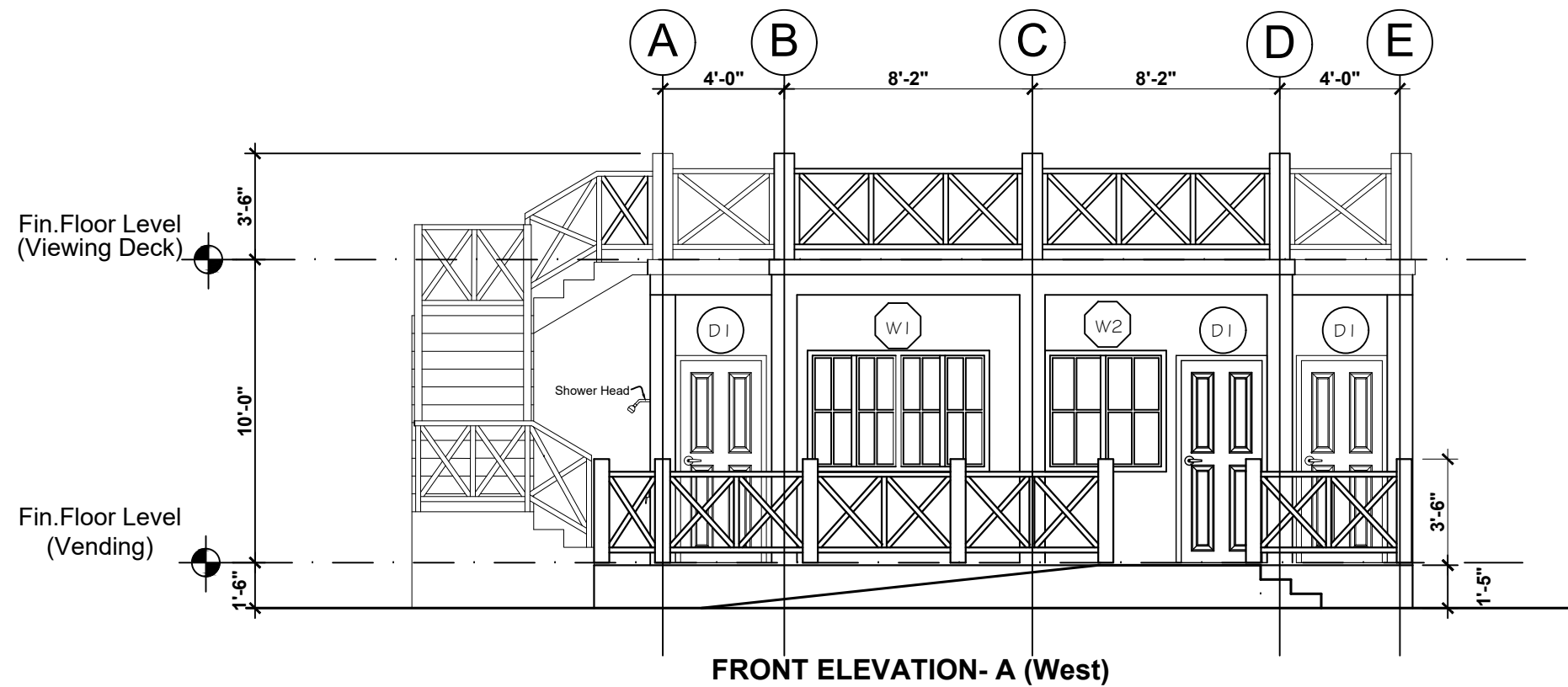
Ground Floor Plan

PROJ. No:	SCALE: 3/1 1/2" = 1'-0"	DRAWN: T. Douglas	DWG. No.
DATE: May 2024	CHECKED:		A-2

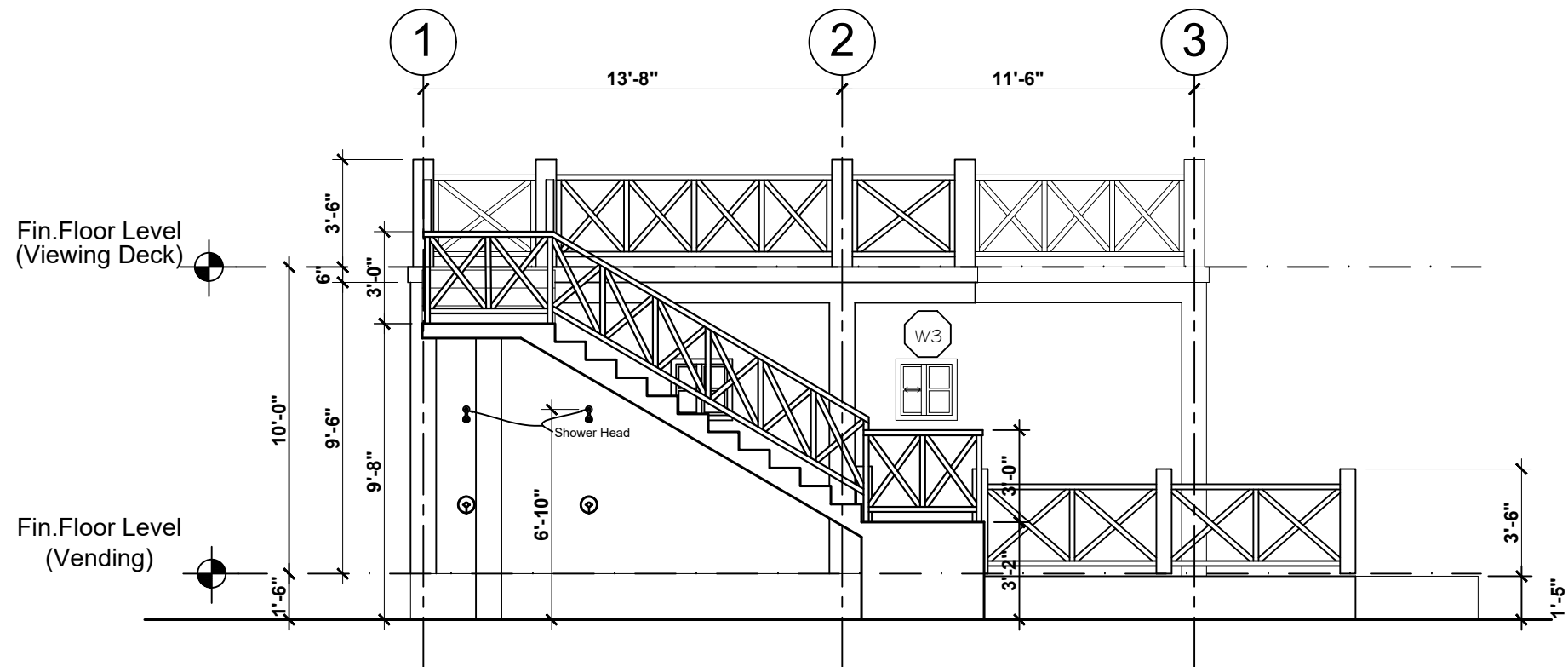


FIRST FLOOR PLAN (Viewing Deck)

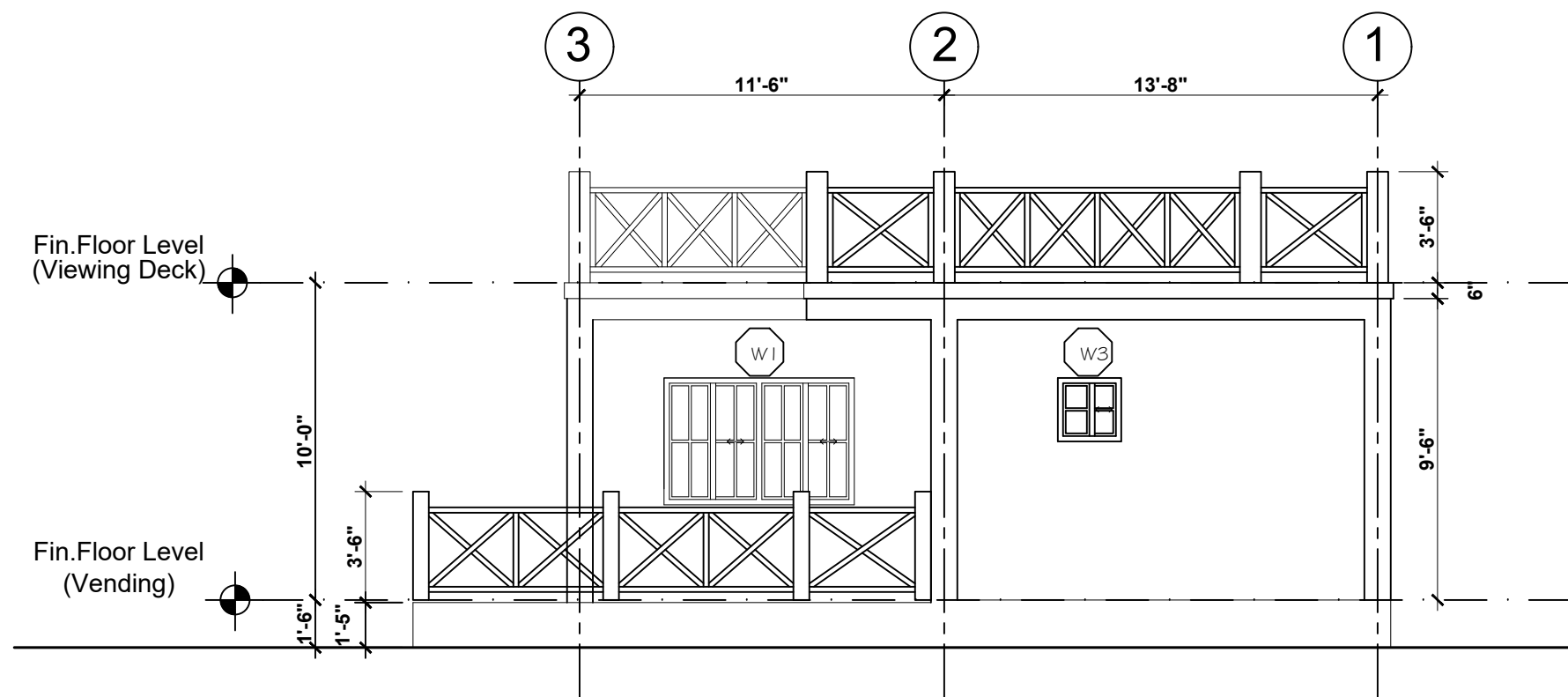
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MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING		
PROJECT MANAGEMENT UNIT, HALIFAX ST., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT:		
Ministry of Tourism		
PROJECT:		
Troumaca Bay Washroom		
TITLE:		
First Floor Plan		
PROJ. No:	SCALE: 3/16" = 1'-0"	DRAWN: T. Douglas
DATE: May 2024	CHECKED:	DWG. No. A-3



No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX St., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: Front & Rear Elevations		
PROJ. No:	SCALE: 3/16" = 1'-0"	DRAWN: T. Douglas
DATE: May 2024	CHECKED:	DWG. No. A-4



LEFT ELEVATION- C (North)



RIGHT ELEVATION- D (South)

No: DATE: ISSUE:

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TEL: 456-1111 ext. 531

CONSULTANTS:

CLIENT:

Ministry of Tourism

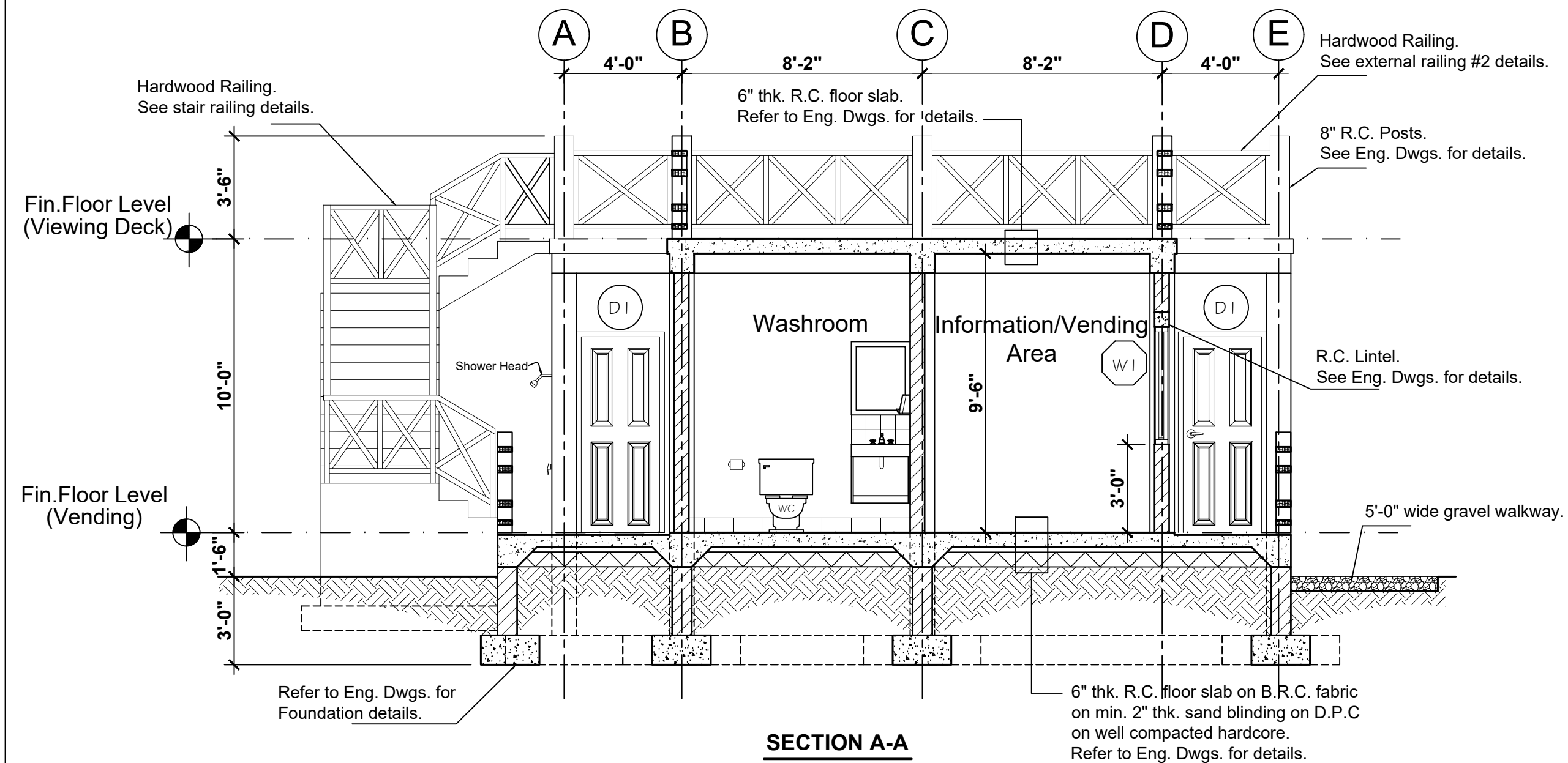
PROJECT:

Troumaca Bay Washroom

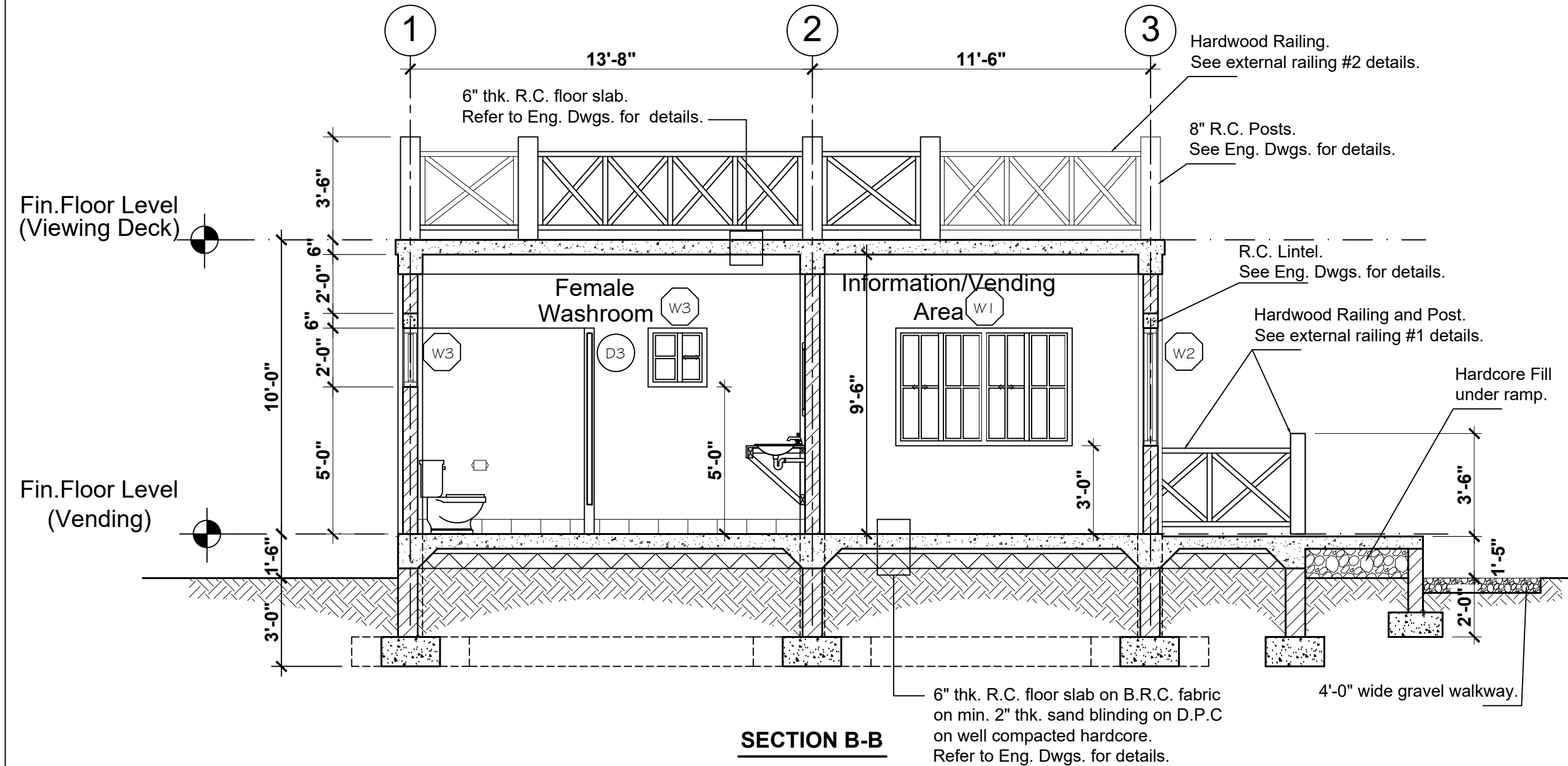
TITLE:

Left & Right Elevations

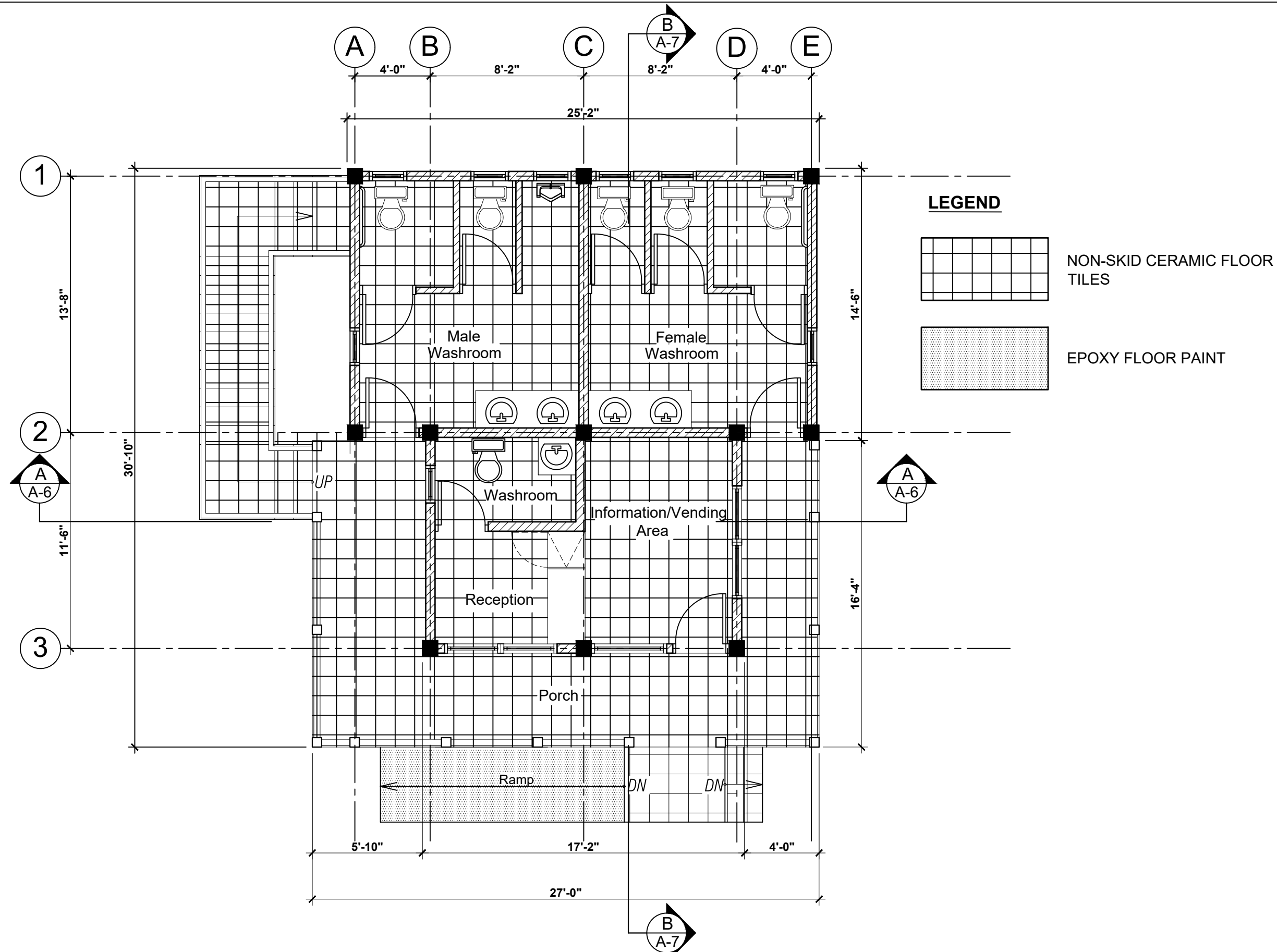
PROJ. No:	SCALE: 3/16" = 1'-0"	DRAWN: T. Douglas	DWG. No.
	DATE: May 2024	CHECKED:	A-5



No:	DATE:	ISSUE:
MTWLPP		
MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING		
PROJECT MANAGEMENT UNIT, HALIFAX ST., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT:		
Ministry of Tourism		
PROJECT:		
Troumaca Bay Washroom		
TITLE:		
Section A-A		
PROJ. No:	SCALE:	DRAWN:
	1/4"= 1'-0"	T. Douglas
DATE:	CHECKED:	DWG. No.
May 2024		A-6

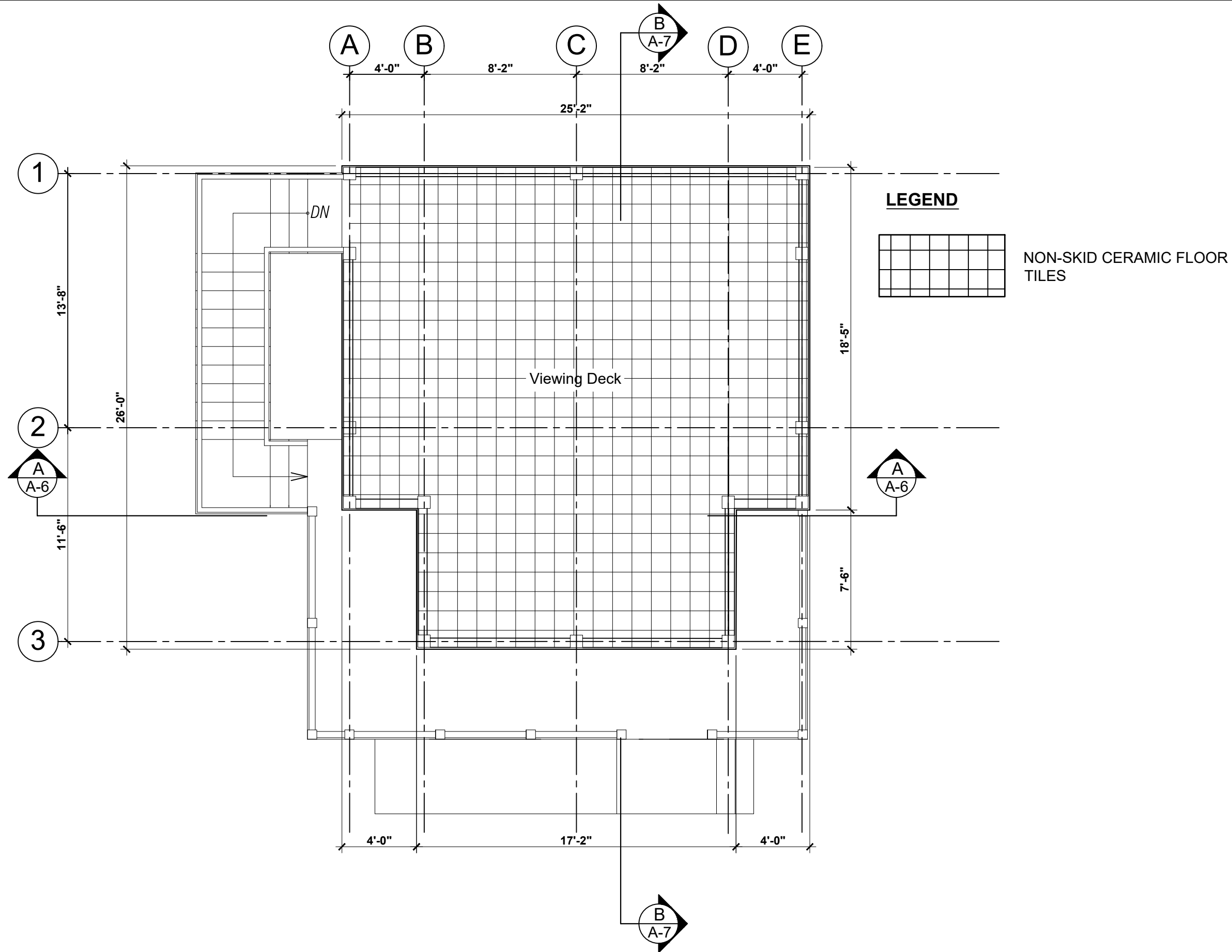


No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX ST., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: Section A-A		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
DATE: May 2024	CHECKED:	DWG. No. A-7



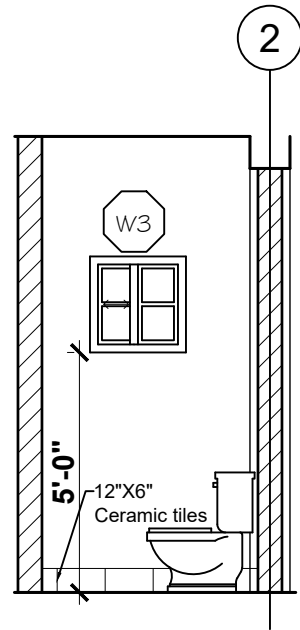
GROUND FLOOR FINISHING PLAN

No:	DATE:	ISSUE:	
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CONSULTANTS:			
CLIENT:			
Ministry of Tourism			
PROJECT:			
Troumaca Bay Washroom			
TITLE:			
Ground Floor Finishing			
PROJ. No:	SCALE:	DRAWN:	DWG. No.
	3/1 6"= 1'-0"	T. Douglas	
DATE:	CHECKED:		A-8
	May 2024		

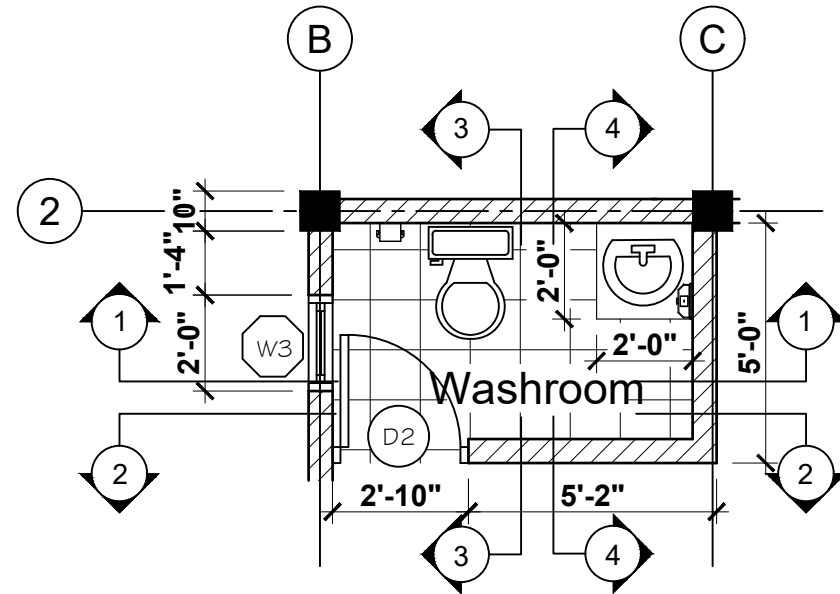


FIRST FLOOR FINISHING PLAN

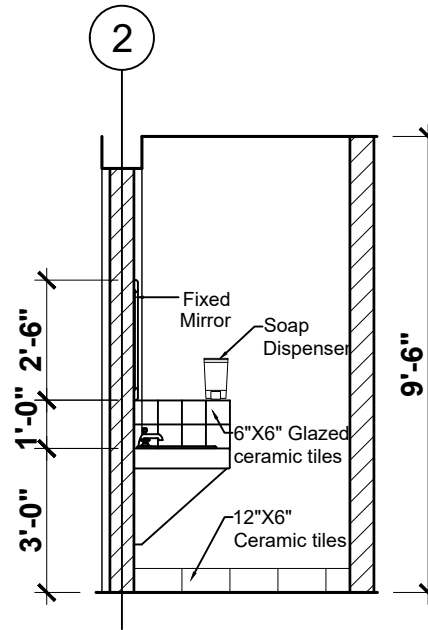
No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX ST., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: First Floor Finishing		
PROJ. No:	SCALE: 3/16" = 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
		DWG. No. A-9



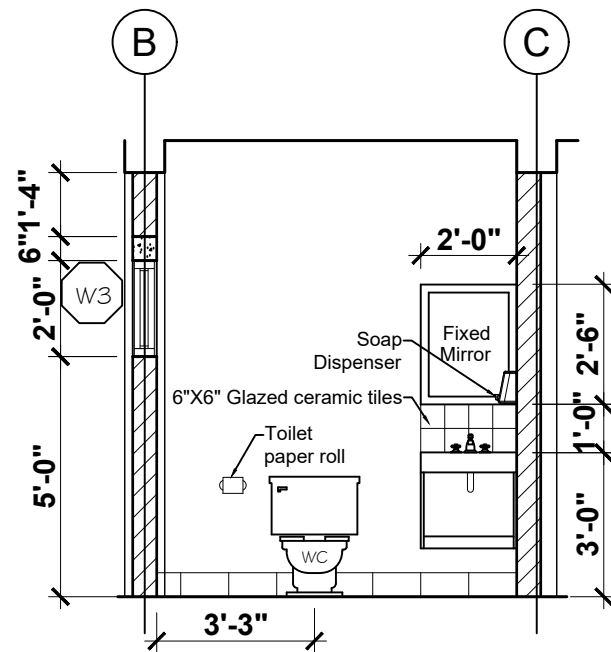
WASHROOM SECTION 3-3



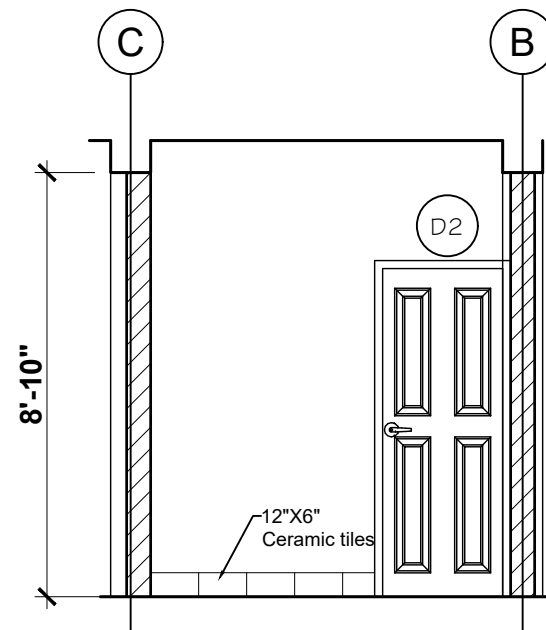
WASHROOM PLAN



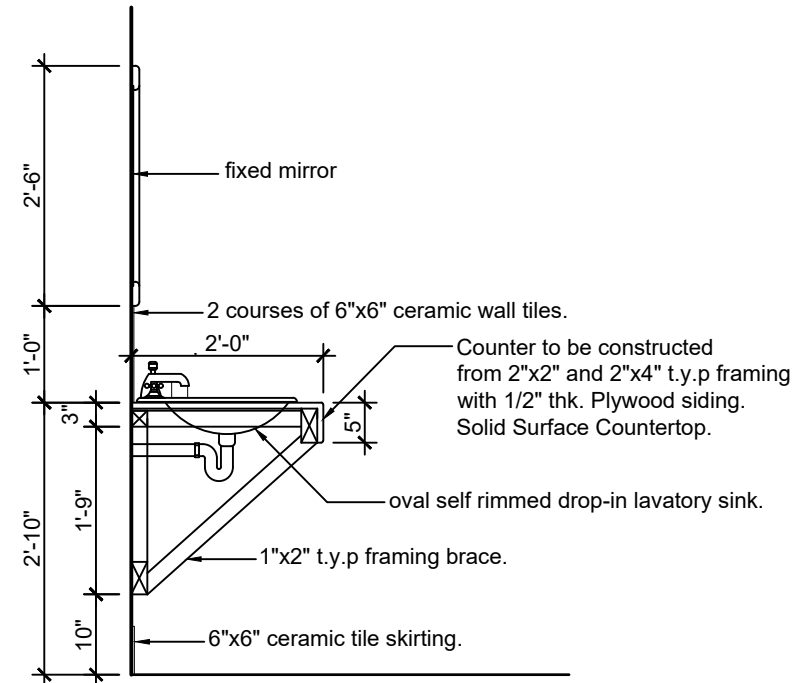
WASHROOM SECTION 4-4



WASHROOM SECTION 1-1



WASHROOM SECTION 2-2



WASHROOM COUNTER DETAIL (N.T.S)

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CONSULTANTS:

CLIENT:

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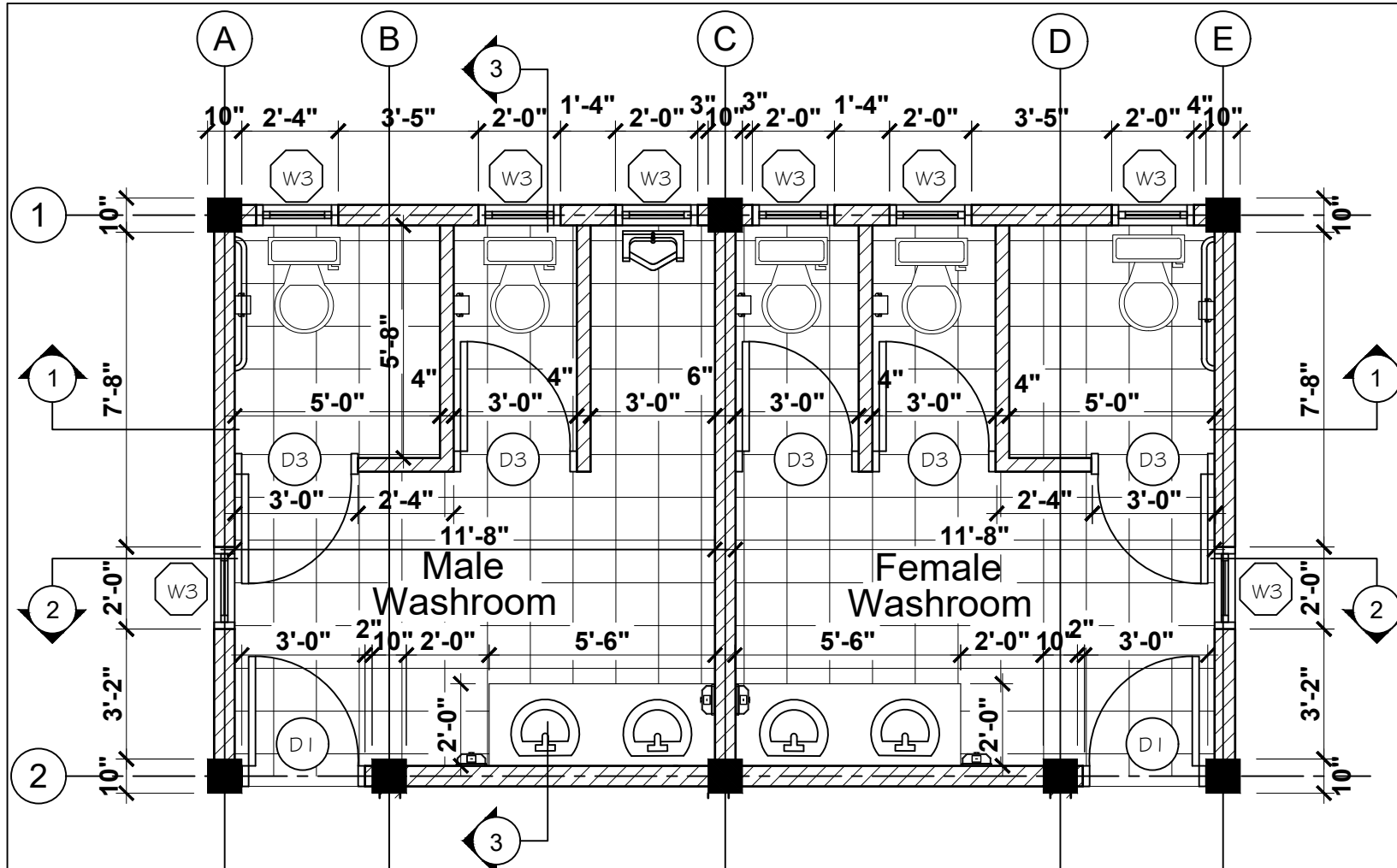
PROJECT:

Troumaca Bay Washroom

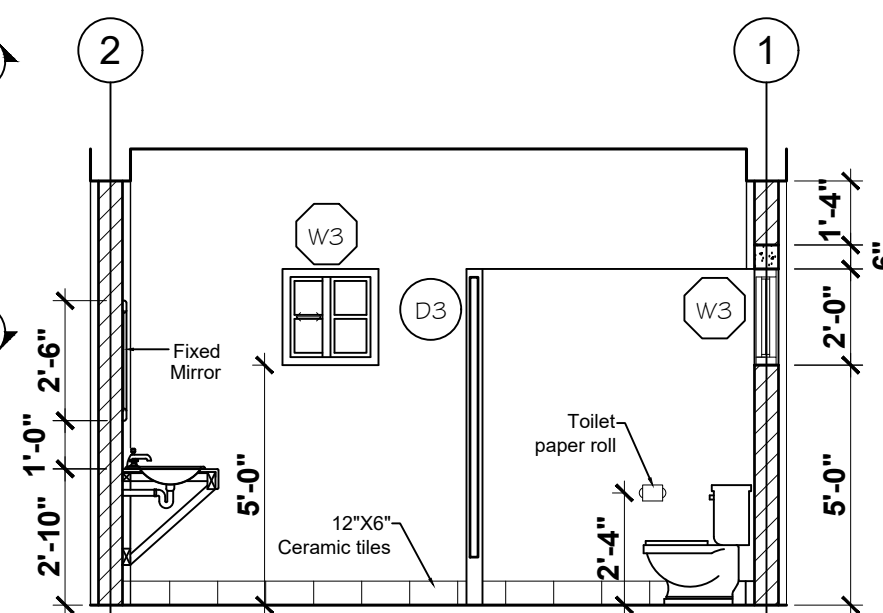
TITLE:

Washroom Sections

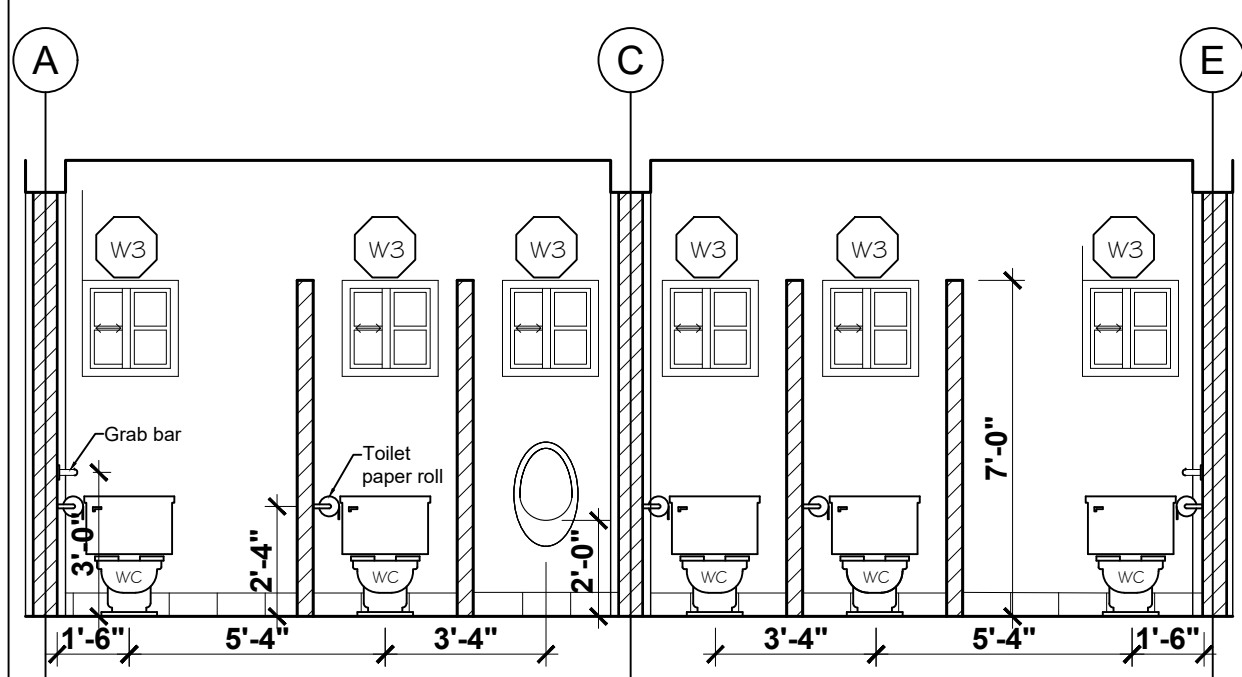
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas	DWG. No. A-10
DATE: May 2024	CHECKED:		



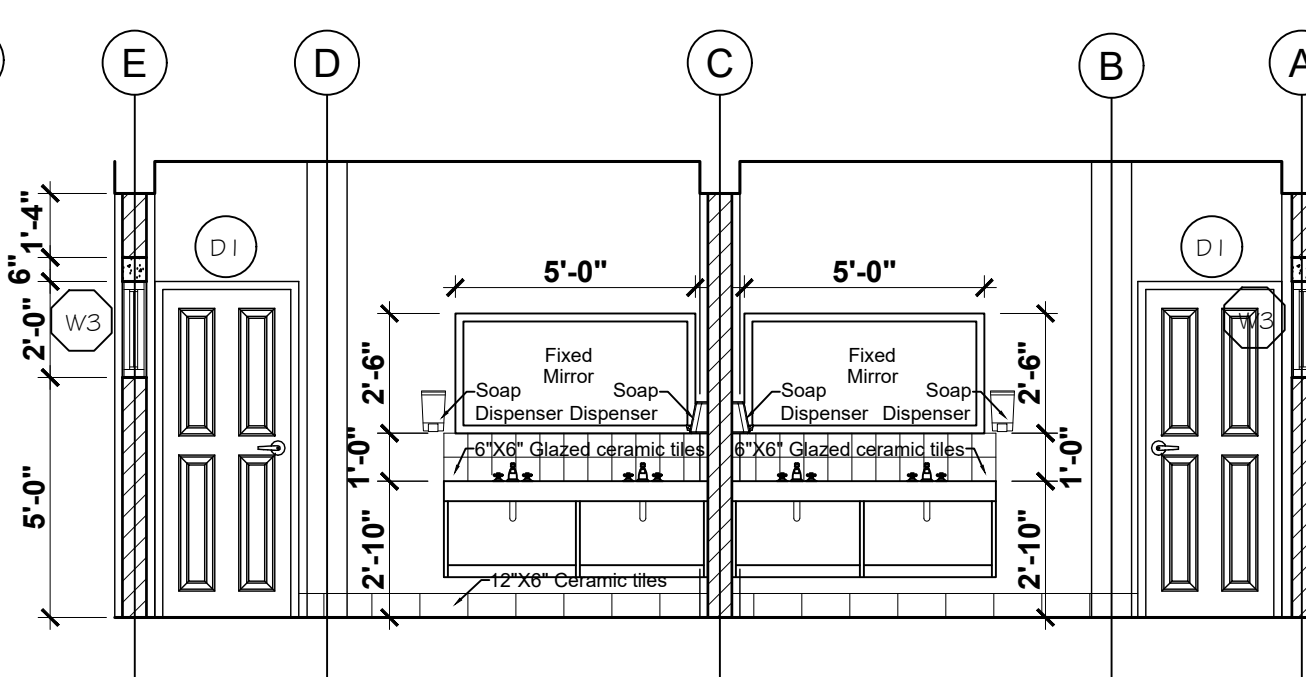
MALE & FEMALE WASHROOM PLAN



MALE & FEMALE WASHROOM SECTION 3-3



MALE & FEMALE WASHROOM SECTION 1-1

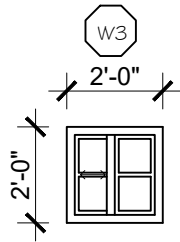
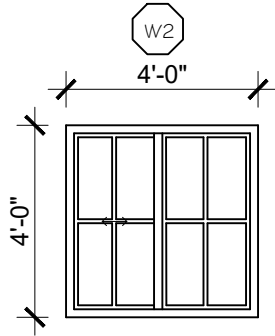
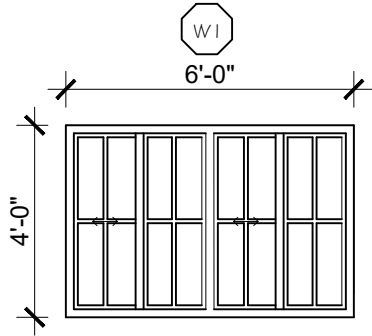


MALE & FEMALE WASHROOM SECTION 2-2

No:	DATE:	ISSUE:
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CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: Male and Female Washroom Sections		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
DATE: May 2024	CHECKED:	DWG. No. A-11

SANITARY SCHEDULE							
GROUND FLOOR							
FIXTURE LOCATION	WATER CLOSET	GRAB BAR (Disabled)	URINAL	DROP- IN LAVATORY SINK	TOILET PAPER HOLDER	HAND WASH SOAP GEL DISPENSER	MIRROR (WIDTH x HEIGHT)
Washroom	1	N/A	N/A	1	1	1	1 (2'-0" x 2'-6")
Male Washroom	2	1	1	2	2	2	1 (5'-0" x 2'-6")
Female Washroom	3	1	N/A	2	3	2	1 (5'-0" x 2'-6")
SPECIFICATION	WC (Water Closet): Gravity Flush, Floor Mounting Style, Round Front Bowl, Material of Construction: Vitreous China, Colour: White, Siphon Jet Flushing, 1.0 Gallons per Flush/3.8 Litres per Flush, S-Type Trap Connector. To be purchased with approval of Architect.	GRAB BAR: Bar Style: Straight, Length: 36 In. Diameter: 1-1/4 In. Wall Mounted, Material of Construction: Stainless Steel, Polished Finish. To be purchased with approval of Architect.	URINAL: Washout, Wall Mounting Style, Connection (In.) 3/4 Top Spud, Material of Construction Vitreous China, Colour/Finish White, Height: 26-1/8 In, Width: 18-1/2 In, Depth:14-1/8 In, 0.125 Gallons per Flush. To be purchased with approval of Architect or Client.	DROP-IN LAVATORY SINK: Material of Construction: Vitreous China, Overall Length: 20 In. Overall Width: 17 In. Overall Height: 10 In. Single Bowl Mounting Type: Drop-In, Faucet Mounting Center, Number of Holes: 1, Drain Opening: 1-1/4 In. Colour: White, Includes Wall Hanger. To be purchased with approval of Architect.	FAUCET: Single Handle, Handle Type: Lever, Material of Construction: Low Lead Brass, Faucet Finish :Chrome, Spout Length: 4 In. Spout Shape: Low Arc. To be purchased with approval of Architect.	TOILET PAPER HOLDER: Wall Mounted, Double Post, Material of Construction: Plastic with Chrome Finish, Plastic Roller, Concealed Screws. To be purchased with approval by Architect.	HAND WASHING SOAP GEL DISPENSER: White Plastic "Push Button" Soap Dispenser with the sealed, leakage-free gravity tube and valve system. To be purchased with approval of Architect.
							1/4 In. thick Polished plate glass mirror with 1"x2" D.T.Y.P frame painted with waterproof oil paint (2 coats) - sizes as schedule.

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CONSULTANTS:			
CLIENT: Ministry of Tourism			
PROJECT: Troumaca Bay Washroom			
TITLE: Sanitary Schedule			
PROJ. No:	SCALE: N.T.5	DRAWN: T. Douglas	DWG. No. A-12
	DATE: May 2024	CHECKED:	

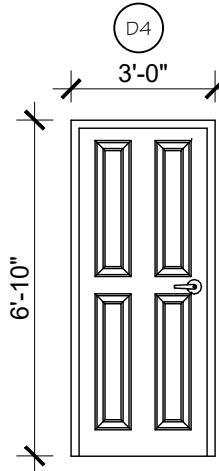
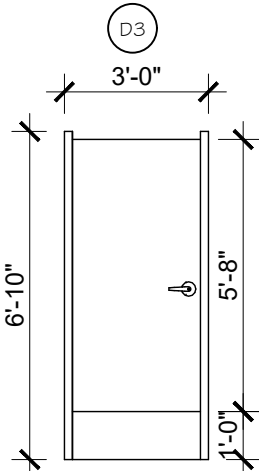
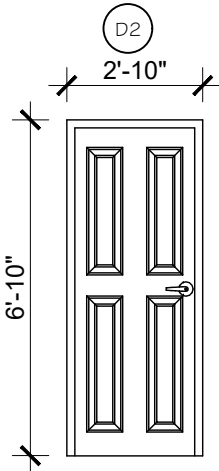
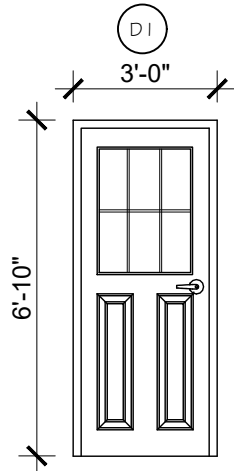


WINDOW #	LOCATION	TYPE		WIDTH	HEIGHT	QUANTITY
W1	Information/ Vending	ALUMINIUM SLIDING WINDOW	MASONRY OPENING	6'-0"	4'-0"	02
	Information/ Vending					
			WINDOW OPENING	6'-0"	4'-0"	

WINDOW #	LOCATION	TYPE		WIDTH	HEIGHT	QUANTITY
W2	Information/ Vending	ALUMINIUM SLIDING WINDOW	MASONRY OPENING	4'-0"	4'-0"	01
	Information/ Vending					
			WINDOW OPENING	4'-0"	4'-0"	

WINDOW #	LOCATION	TYPE		WIDTH	HEIGHT	QUANTITY
W3	Washroom	ALUMINIUM SLIDING WINDOW	MASONRY OPENING	2'-0"	2'-0"	09
	Male Washroom					
	Male Washroom		WINDOW OPENING	2'-0"	2'-0"	
	Male Washroom					
	Male Washroom					
	Female Washroom					
	Female Washroom					
	Female Washroom					

WINDOW SCHEDULE



POSITION	LOCATION	SWING	TYPE		WIDTH	HEIGHT	QUANTITY
D1	Information/Vending	ACW	ALUMINIUM PANEL DOOR W/GLASS PANEL	MASONRY OPENING	3'-0"	6'-10"	01
	Male Washroom	CW					
	Female Washroom	ACW		DOOR OPENING	2'-8"	6'-8"	
			IRONMONGERY	Door Closer	Butt Hinge	Dead Bolt Lock	(D) Colour
			Amount per Door	1	3	1	To be Determined
			Total	2	6	2	

POSITION	LOCATION	SWING	TYPE		WIDTH	HEIGHT	QUANTITY
D2	Washroom	CW	TIMBER PANEL DOOR	MASONRY OPENING	2'-10"	6'-10"	01
	Washroom	CW		DOOR OPENING	2'-6"	6'-8"	
	Washroom	CW					
			IRONMONGERY	Door Closer	Butt Hinge	Lever Lock	(D) Colour
			Amount per Door	N/A	3	1	To be Determined
			Total	N/A	3	1	

POSITION	LOCATION	SWING	TYPE		WIDTH	HEIGHT	QUANTITY
D3	Male Disabled Toilet	ACW	TIMBER SEMI-SOLID CORE FLUSH DOOR	MASONRY OPENING	3'-0"	6'-10"	05
	Male Washroom	CW					
	Female Disabled Toilet	ACW		DOOR OPENING	2'-8"	5'-8"	
	Female Washroom	CW					
	Female Washroom	CW					
			IRONMONGERY	Door Closer	Butt Hinge	Slide Bolt Latch	(D) Colour
			Amount per Door	N/A	2	1	To be Determined
			Total	N/A	10	5	

POSITION	LOCATION	SWING	TYPE		WIDTH	HEIGHT	QUANTITY
D4	Male Washroom	CW	ALUMINIUM PANEL DOOR	MASONRY OPENING	3'-0"	6'-10"	02
	Female Washroom	ACW		DOOR OPENING	2'-8"	6'-8"	
	Female Washroom	ACW					
			IRONMONGERY	Door Closer	Butt Hinge	Dead Bolt Lock	(D) Colour
			Amount per Door	1	3	1	To be Determined
			Total	2	6	2	

DOOR SCHEDULE

MANUFACTURE INFO

Provide doors and windows by a company with a minimum of five years experience in producing the type of unit specified. Manufacturer and product are subject to approval by Architect or Client.

DELIVERY AND STORAGE

The Contractor shall ensure that adequate protection is afforded during transit and storage on site to ensure that no damage occurs to any of the materials, and in this respect, he must follow the manufacturer's instructions. Aluminium sections shall be protected during transit and installation with removable tape over exposed surfaces.

DOORS

- 1) Door frames are to be fixed true and square in the openings.
- 2) Hinged doors are to be hung in the frames with 100 mm anodized Stainless Steel (or Brass) butt hinges.
- 3) Exterior Doors are to have a patent sealing strip on all edges, (nylon pile or similar) to prevent draughts and ingress of dust, water etc.
- 4) Door frame heads and stiles shall be securely joined and reinforced by means of cast structured corner units.
- 5) All cutouts for ironmongery etc. shall be accurately made and reinforced as necessary.

Ironmongery Specifications

- **Butt Hinge** - Stainless Steel Ball Bearing Butt Hinge.
- **Spring Hinge** - Stainless Steel Ball Spring Hinge.
- **Locks** - Lever Lock Chrome finish Master Key System. Exterior locks to be used with a chrome finish deadbolt. Stainless Steel Slide Bolt Latch.
- **Door Handles** - Chrome finish handles.
- **Door Closers** - Medium weight Chrome finish.
- All Ironmongery to be purchased with the approval of Client or Architect.

No: DATE: ISSUE:

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TEL: 456-1111 ext. 531

CONSULTANTS:

CLIENT:

Ministry of Tourism

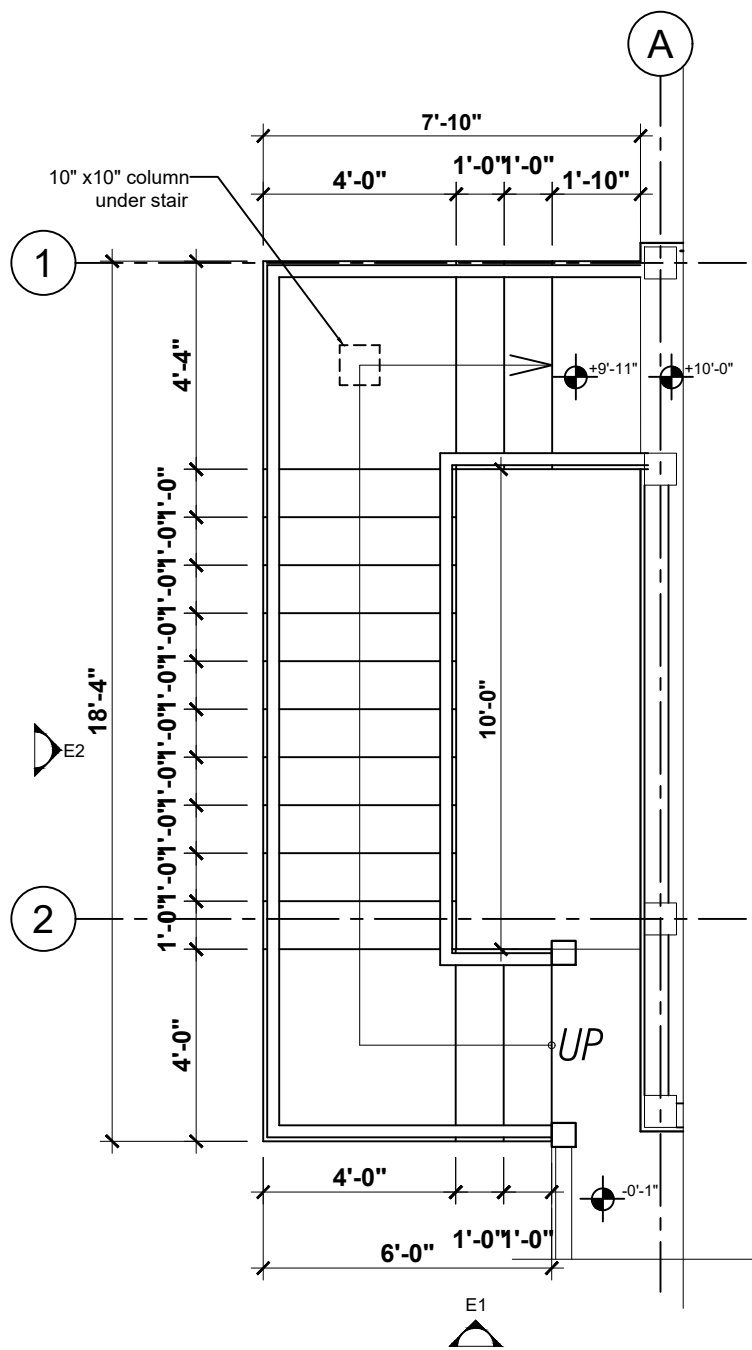
PROJECT:

Troumaca Bay Washroom

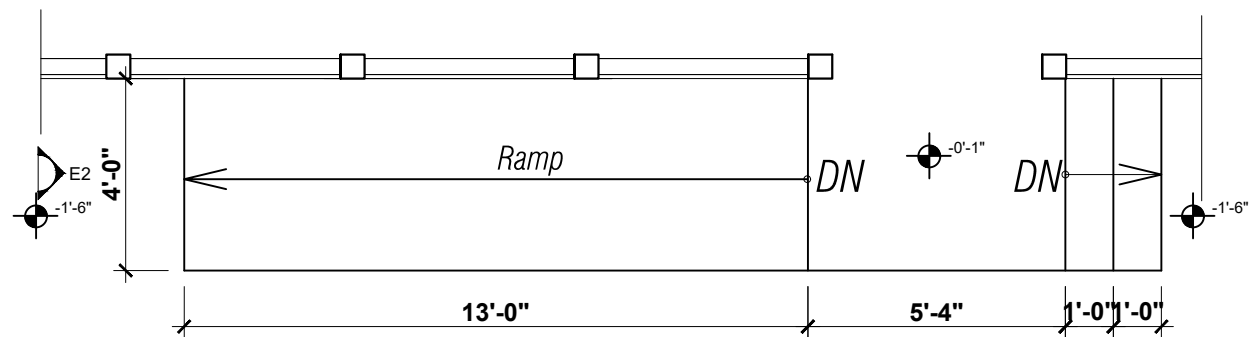
TITLE:

Window and Door Schedule

PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas	DWG. No.
	DATE: May 2024	CHECKED:	A-13



STAIR PLAN



RAMP PLAN

No: DATE: ISSUE:

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CONSULTANTS:

CLIENT:

Ministry of Tourism

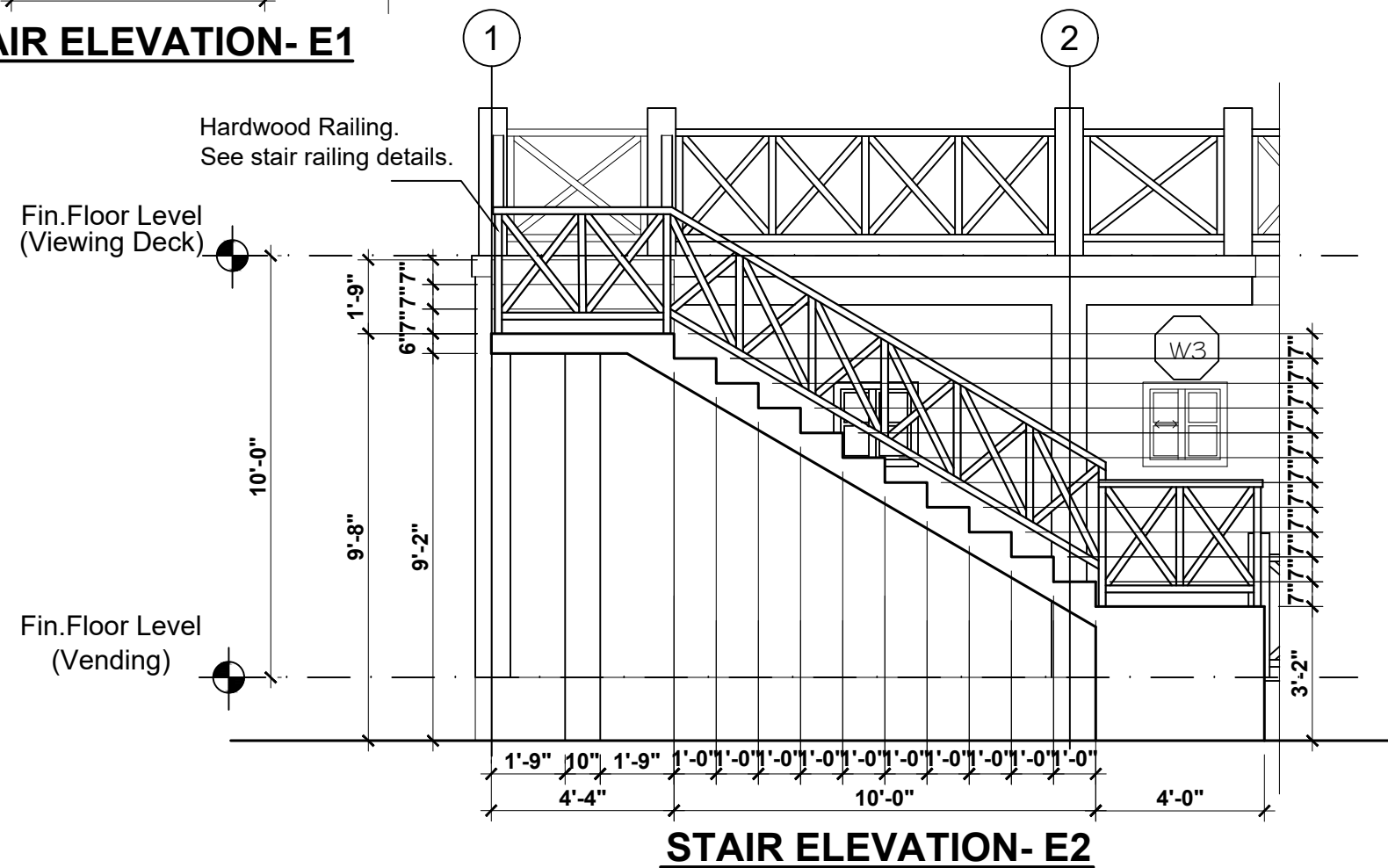
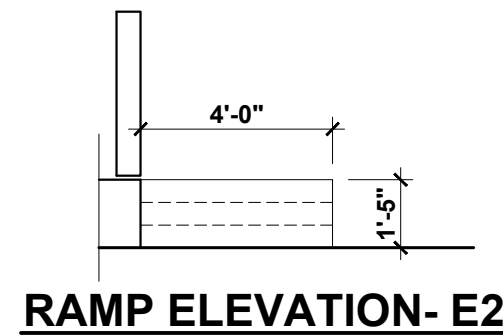
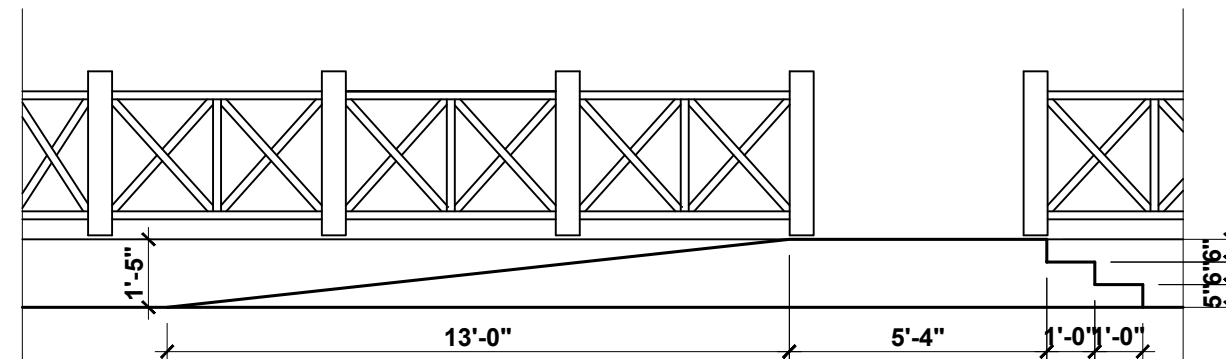
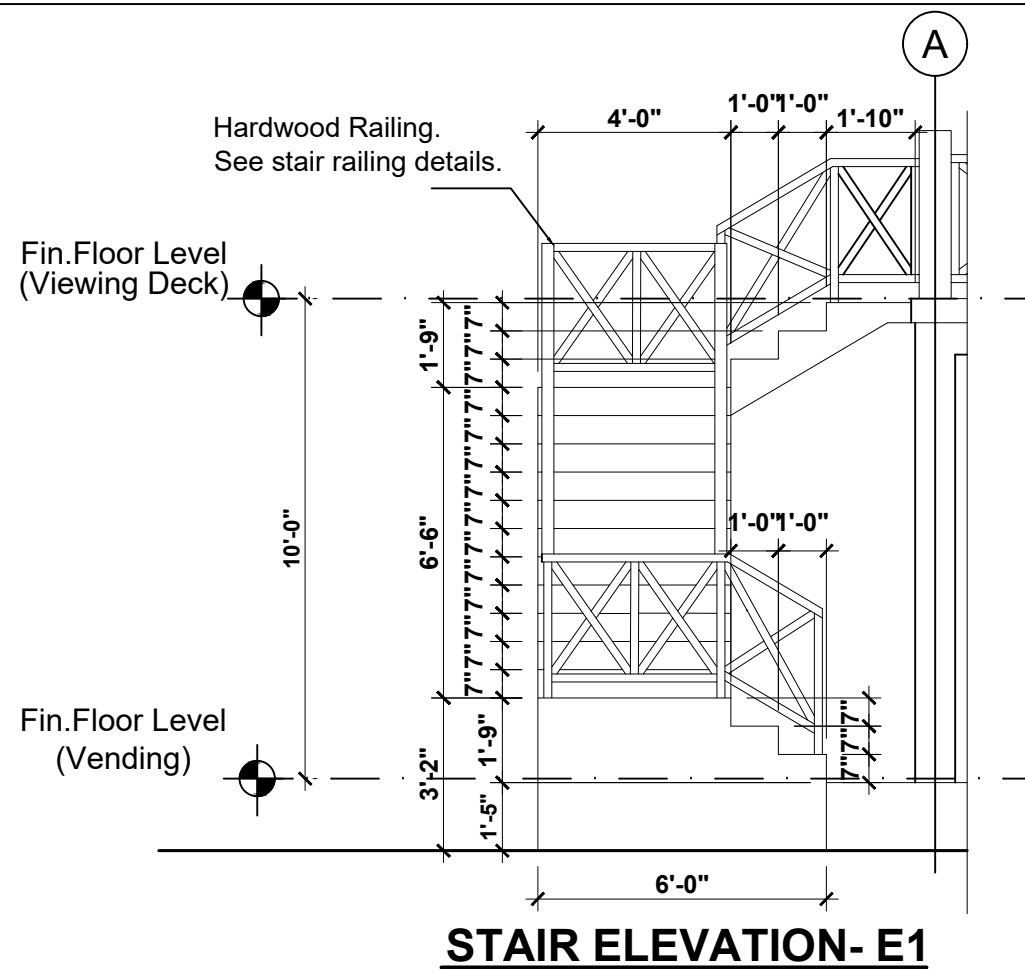
PROJECT:

Troumaca Bay Washroom

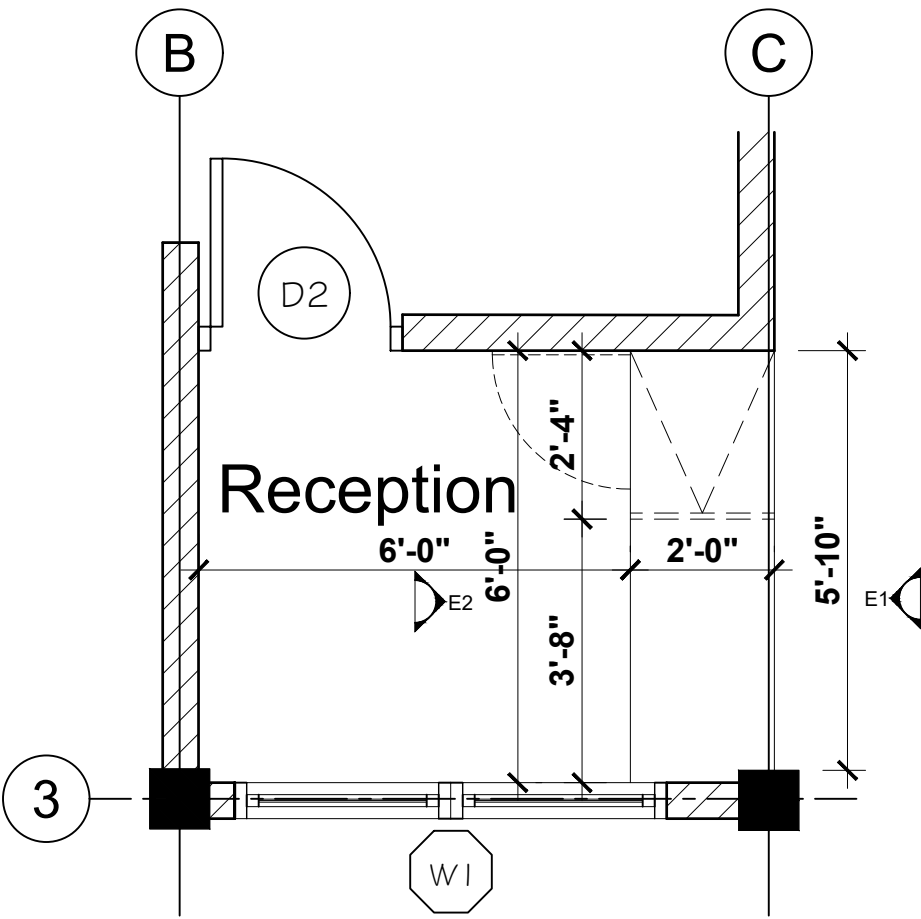
TITLE:

Stair and Ramp Plans

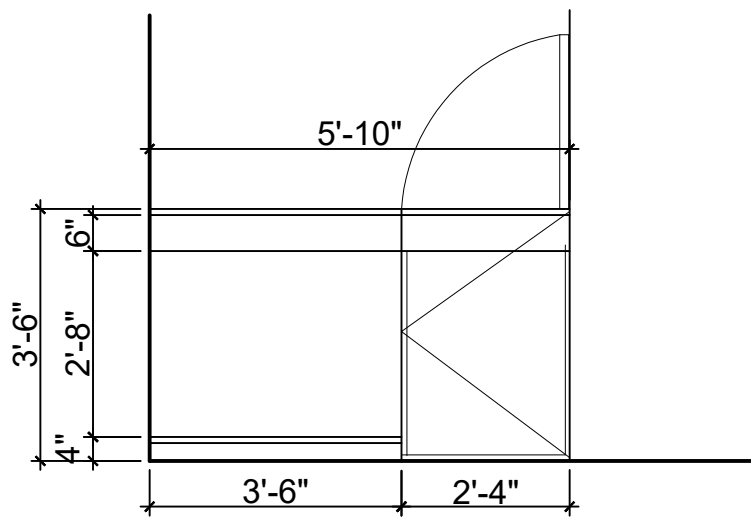
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	DATE: May 2024	CHECKED:	A-14



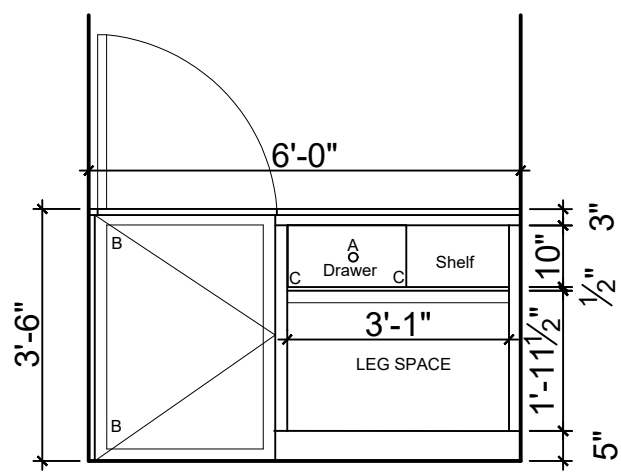
No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX St., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: Stair and Ramp Elevations		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
A-15		



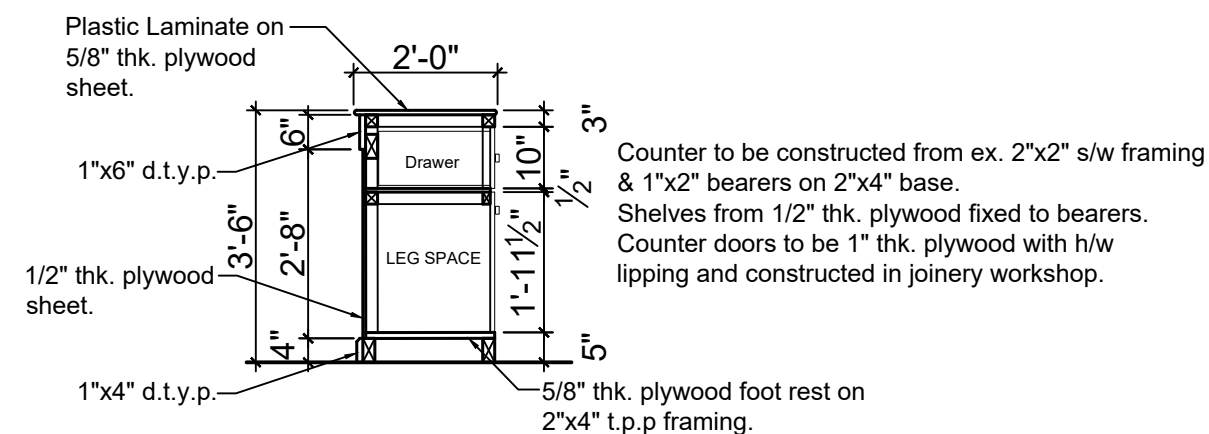
RECEPTION COUNTER PLAN



COUNTER ELEVATION- E1



COUNTER ELEVATION- E2



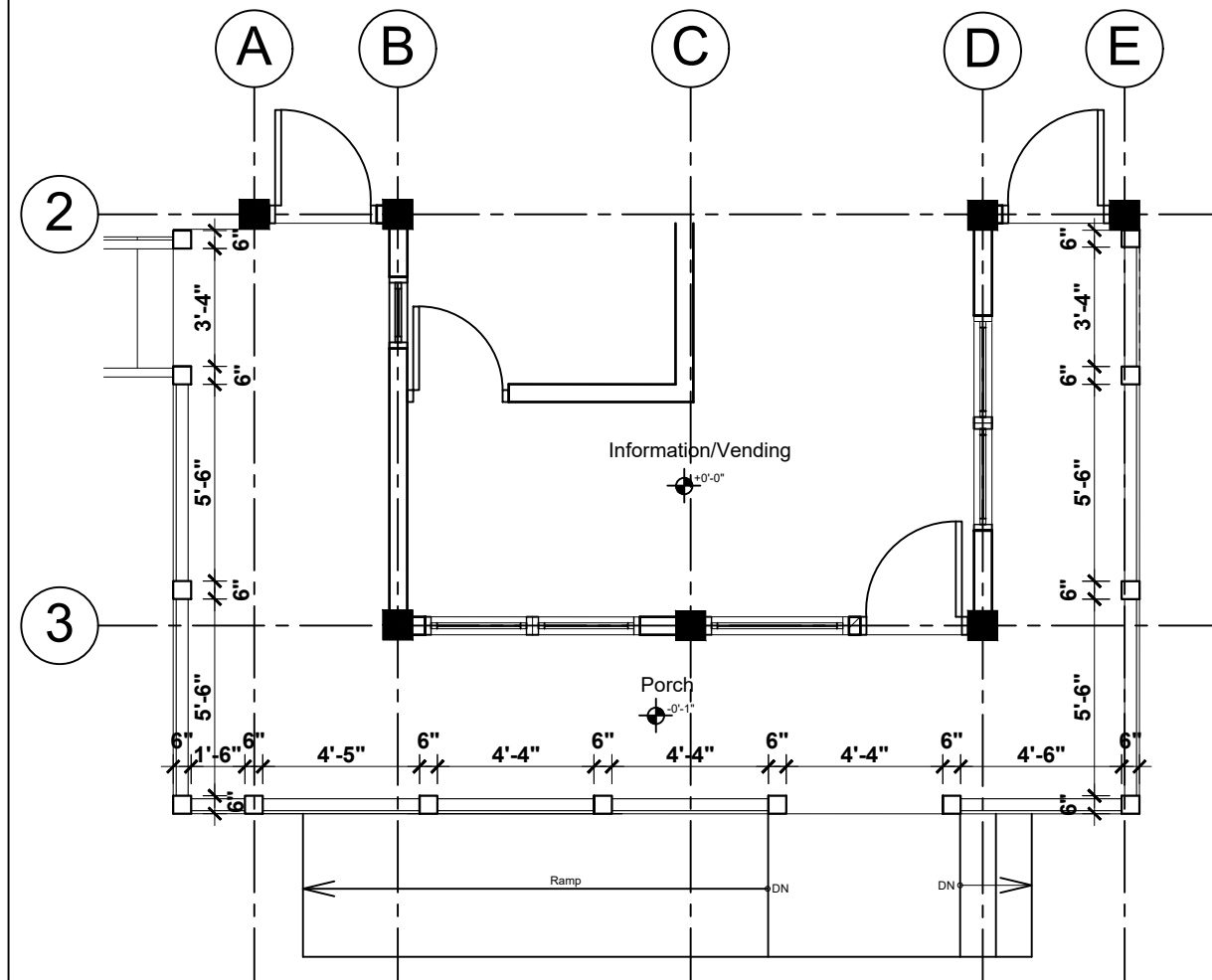
COUNTER DETAIL

RECEPTION COUNTER IRONMONGERY SCHEDULE		
ITEM	AMOUNT	SPECIFICATION
A (Pull Handle)	1	Mounting Type: Threaded Hole, Stainless Steel, Mounting Hole Center.
B (Hinges)	2	Concealed Butt Hinge, Stainless Steel, Mounting: Screw-On, Load Capacity: 15 lb./Pa
C (Drawer Sliders)	2	Closure Type: Soft Close, Mounting Type: Side, Glide Mechanism: Ball Bearing, Zinc Plated, Extension Type: Full, Closed Length: 18"

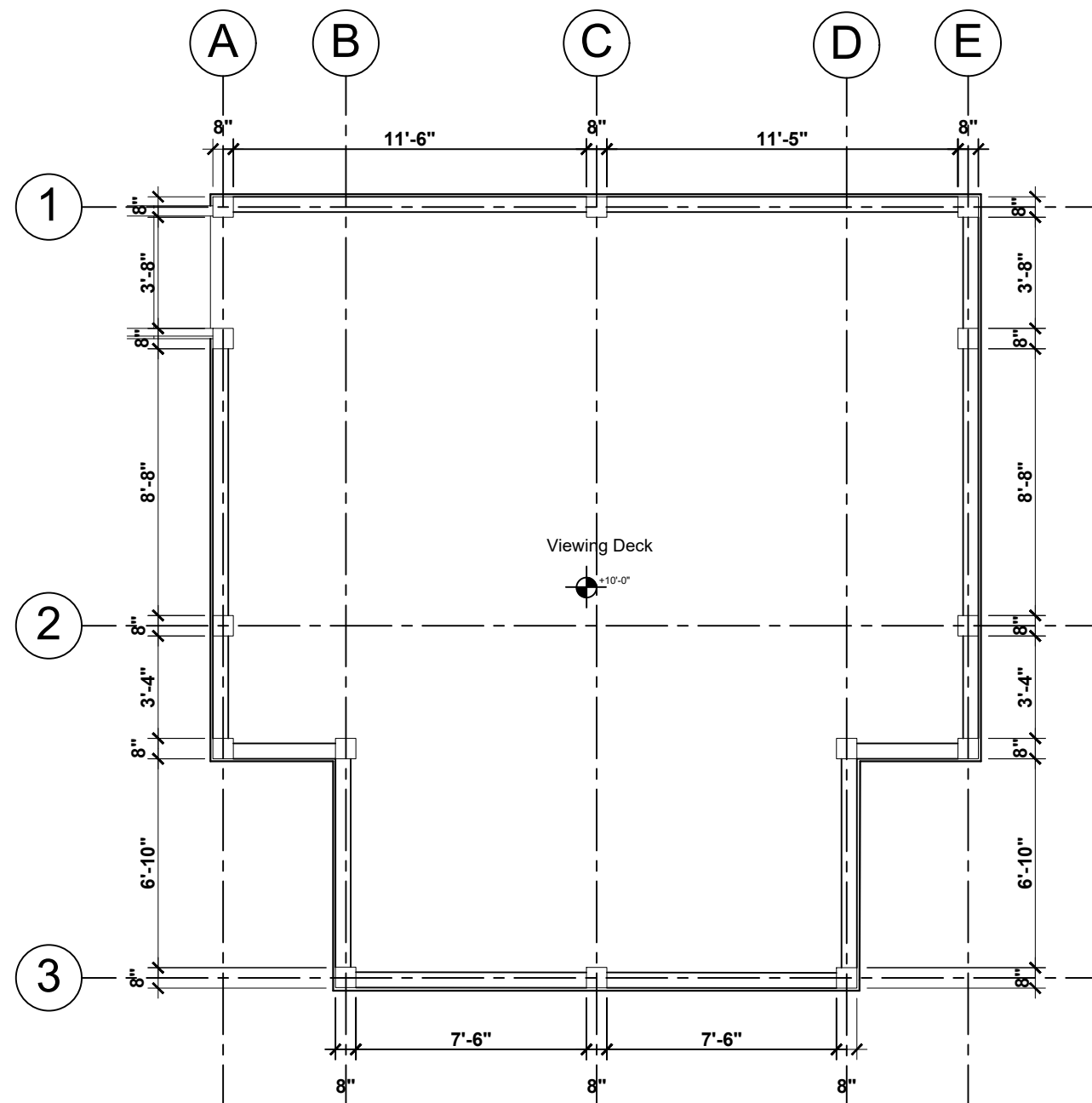
No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX St., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: Reception Counter		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
DATE: May 2024	CHECKED:	DWG. No. A-16

[illegible]

No:	DATE:	ISSUE:	
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CONSULTANTS:			
CLIENT:			
Ministry of Tourism			
PROJECT:			
Troumaca Bay Washroom			
TITLE:			
Finishing Schedule			
PROJ. No:	SCALE:	DRAWN:	DWG. No.
	N.T.S	T. Douglas	
	DATE:	CHECKED:	A-17
	May 2024		



GROUND FLOOR RAILING PLAN (Washrooms/Vending)



FIRST FLOOR RAILING PLAN (Viewing Deck)

No: DATE: ISSUE:

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CONSULTANTS:

CLIENT:

Ministry of Tourism

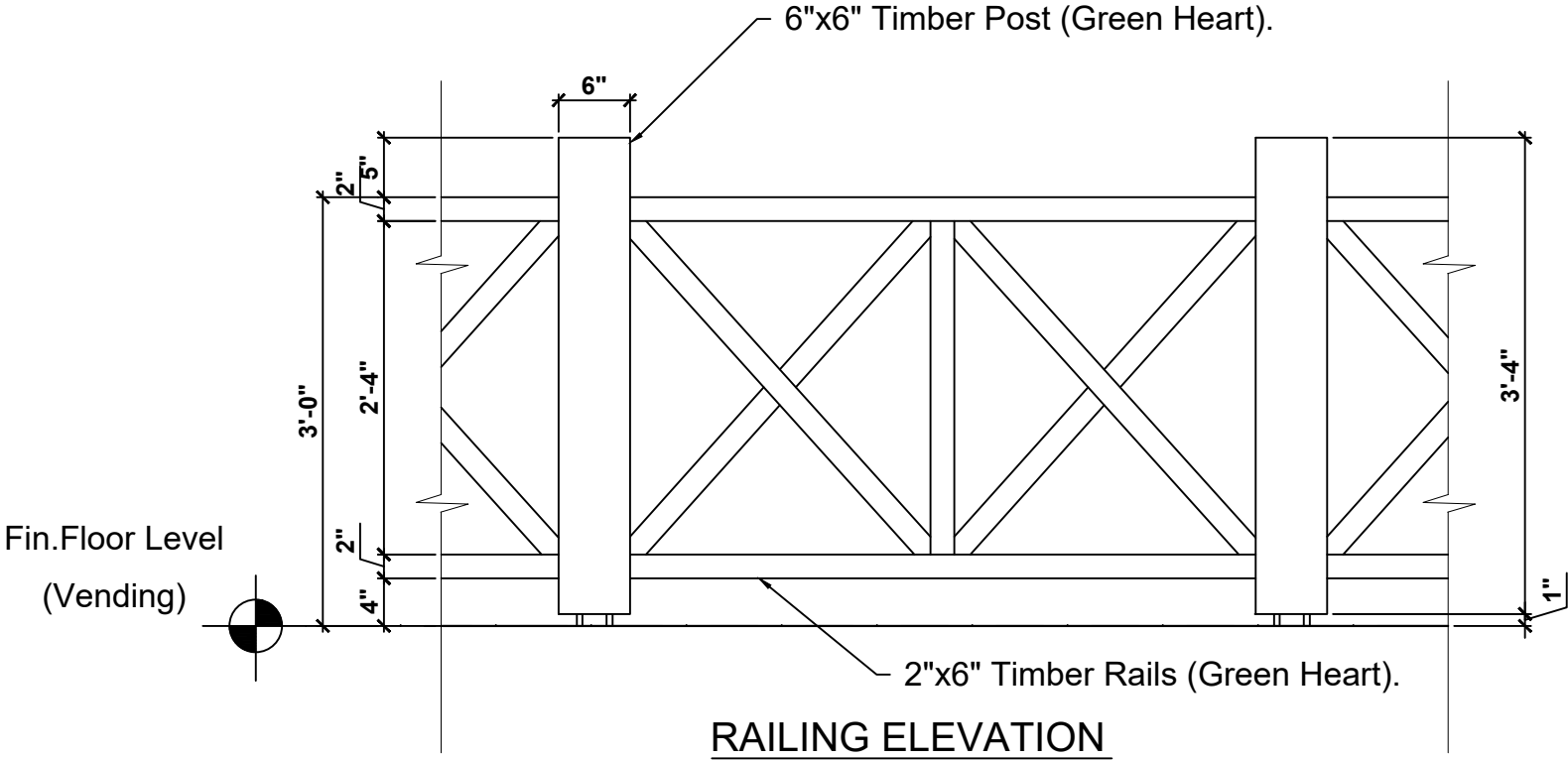
PROJECT:

Troumaca Bay Washroom

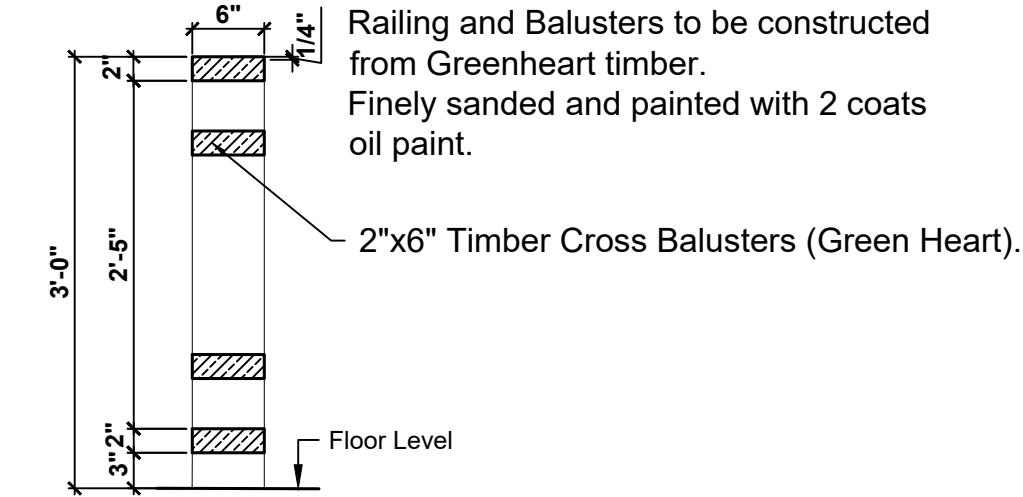
TITLE:

External Railing #1 Details
(Ground Floor)

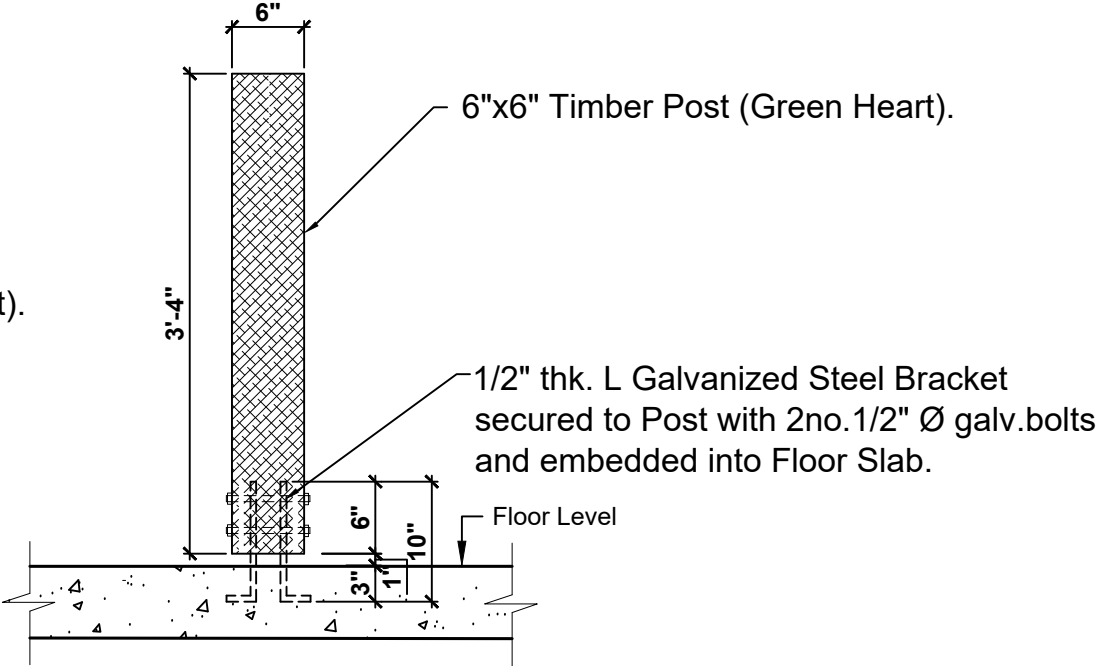
PROJ. No:	SCALE: 3/1 6"= 1'-0"	DRAWN: T. Douglas	DWG. No.
DATE: May 2024	CHECKED:	A-18	



RAILING ELEVATION

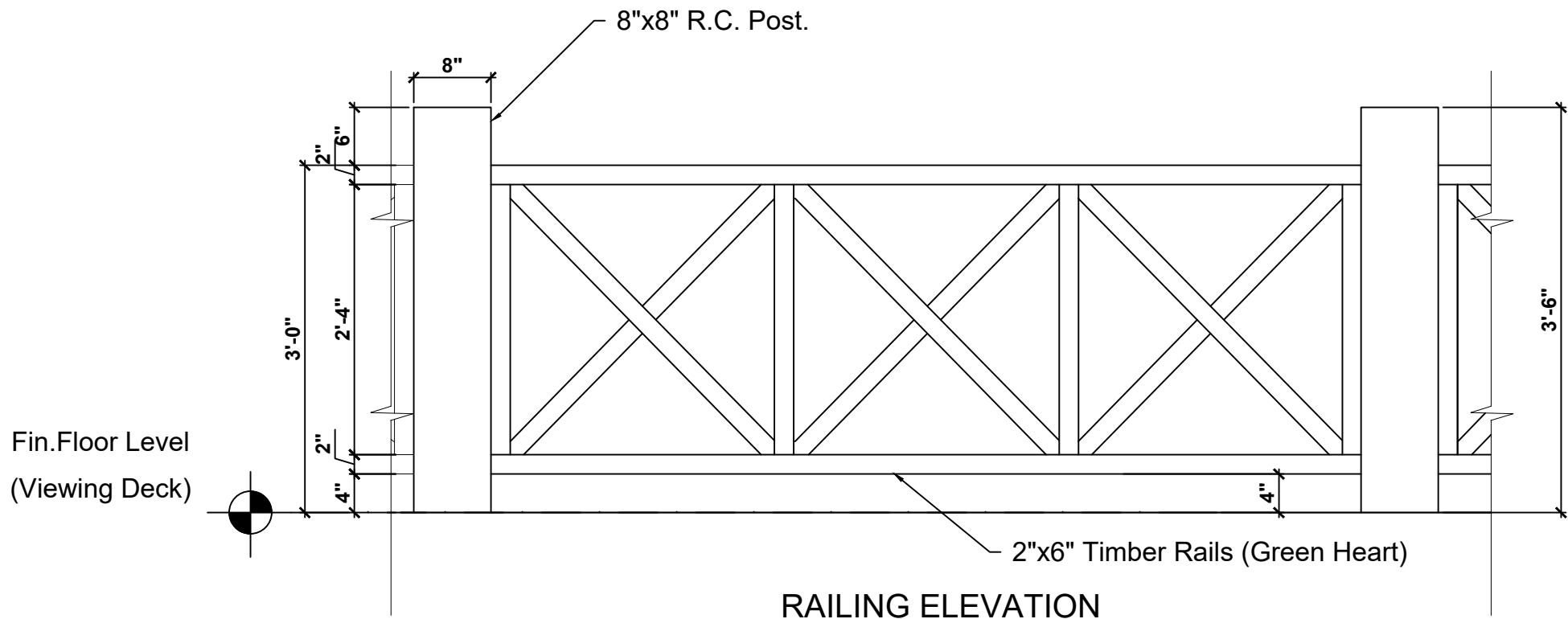


TYP. RAILING SECTION

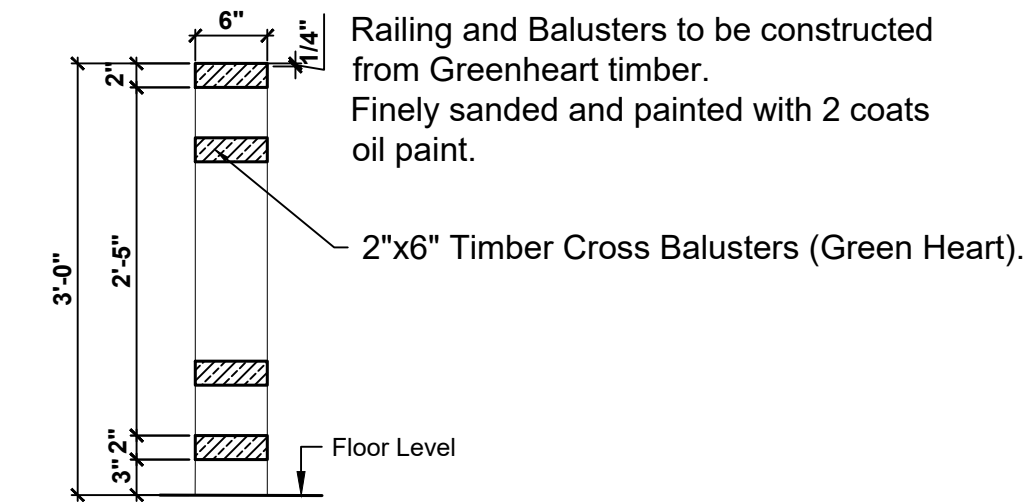


POST BASE DETAIL

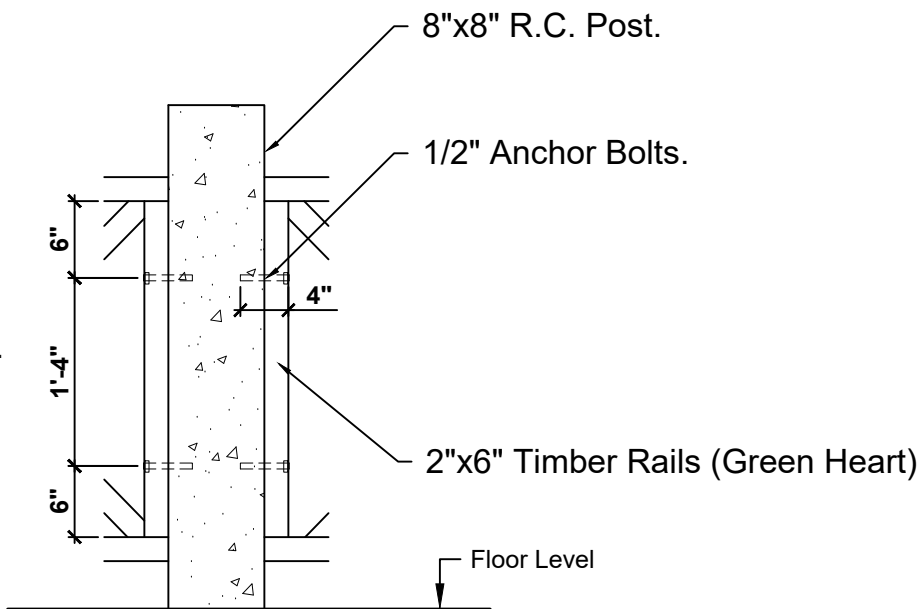
No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX ST., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: External Railing #1 Details (Ground Floor)		
PROJ. No:	SCALE: 3/4"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
		DWG. No. A-19



RAILING ELEVATION



TYP. RAILING SECTION



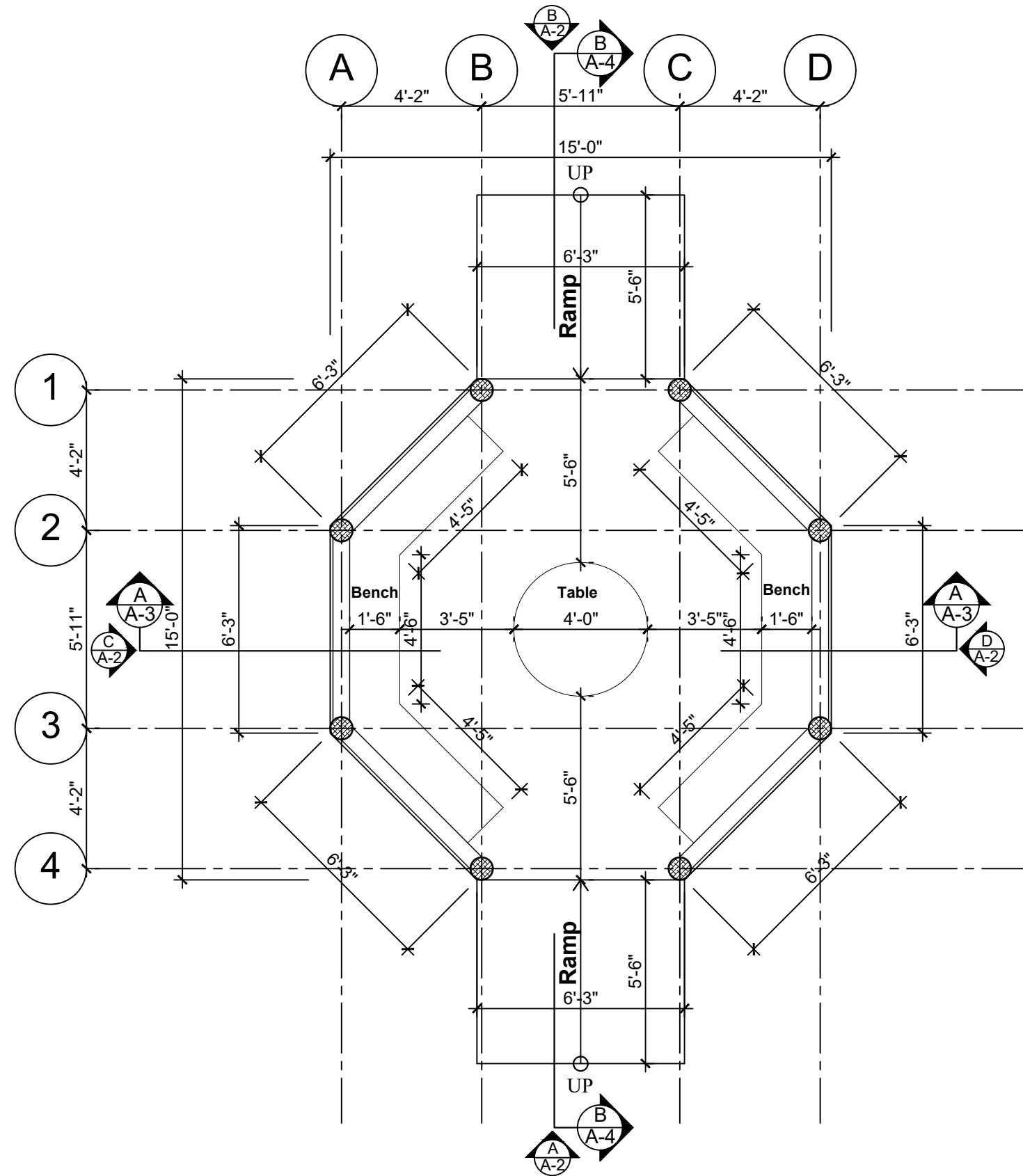
POST DETAIL

No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX ST., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Washroom		
TITLE: External Railing #2 Details (First Floor)		
PROJ. No:	SCALE: 3/4"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
		DWG. No. A-20

TROUMACA BAY WASHROOM - ARCHITECTURAL

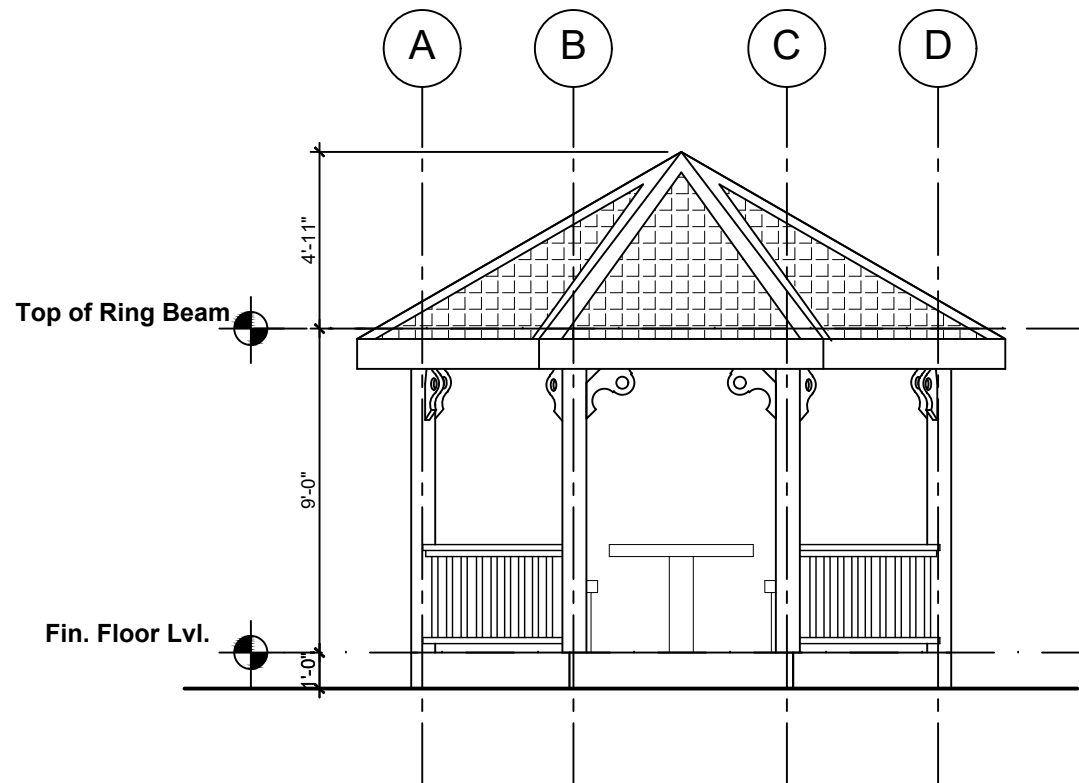
SHEET LIST		
DWG NO.	TITLE	SCALE
A1	SITE PLAN	See Drawing
A2	GROUND FLOOR PLAN	3/16"=1'-0"
A3	FIRST FLOOR PLAN	3/16"=1'-0"
A4	FRONT AND REAR ELEVATIONS	3/16"=1'-0"
A5	LEFT AND RIGHT ELEVATION	3/16"=1'-0"
A6	SECTION A-A	1/4"=1'-0"
A7	SECTION B-B	1/4"=1'-0"
A8	GROUND FLOOR FINISHING PLAN	3/16"=1'-0"
A9	FIRST FLOOR FINISHING PLAN	3/16"=1'-0"
A10	WASHROOM SECTIONS	1/4"=1'-0"
A11	MALE AND FEMALE WASHROOM SECTIONS	1/4"=1'-0"
A12	SANITARY SCHEDULE	N.T.S
A13	DOOR AND WINDOW SCHEDULE	1/4"=1'-0"
A14	STAIR AND RAMP PLANS	1/4"=1'-0"
A15	STAIR AND RAMP ELEVATIONS	1/4"=1'-0"
A16	RECEPTION COUNTER	1/4"=1'-0"
A17	FINISHING SCHEDULE	N.T.S
A18	RAILING PLANS	3/15"=1'-0"
A19	EXTERNAL RAILING #1 DETAILS	3/4"=1'-0"
A20	EXTERNAL RAILING #2 DETAILS	3/4"=1'-0"

No:	DATE:	ISSUE:	
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CONSULTANTS:			
CLIENT: Ministry of Tourism			
PROJECT: Troumaca Bay Washroom			
TITLE: Sheet List			
PROJ. No:	SCALE:	DRAWN: T. Douglas	DWG. No. A-0
	DATE: May 2024	CHECKED:	

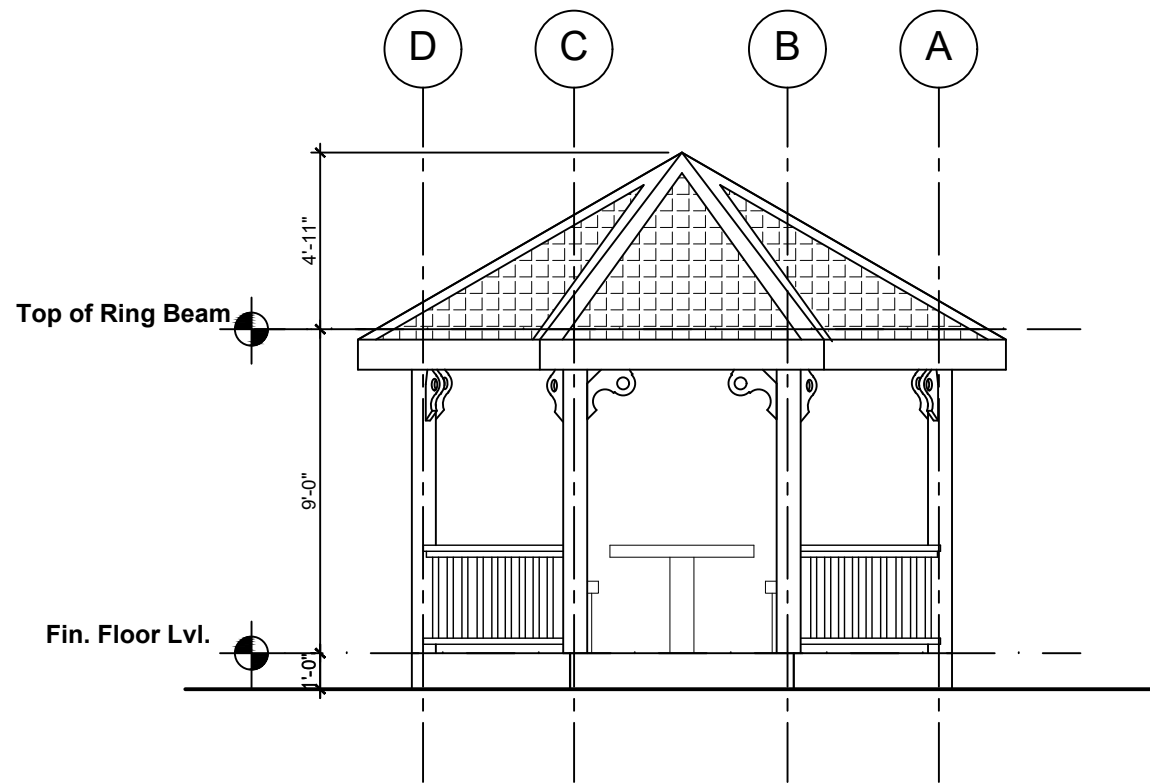


FLOOR PLAN

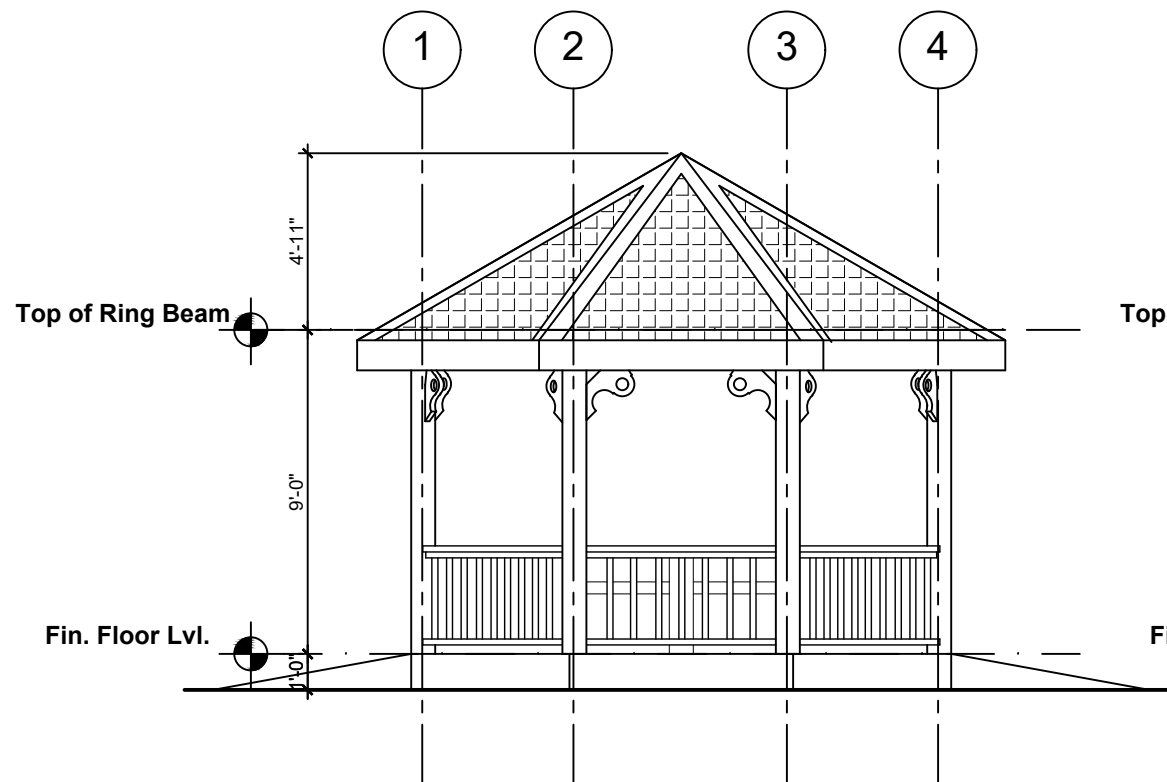
No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX St., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Gazebo		
TITLE: Floor Plan		
PROJ. No:	SCALE: 3/8"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
		DWG. No. A-1



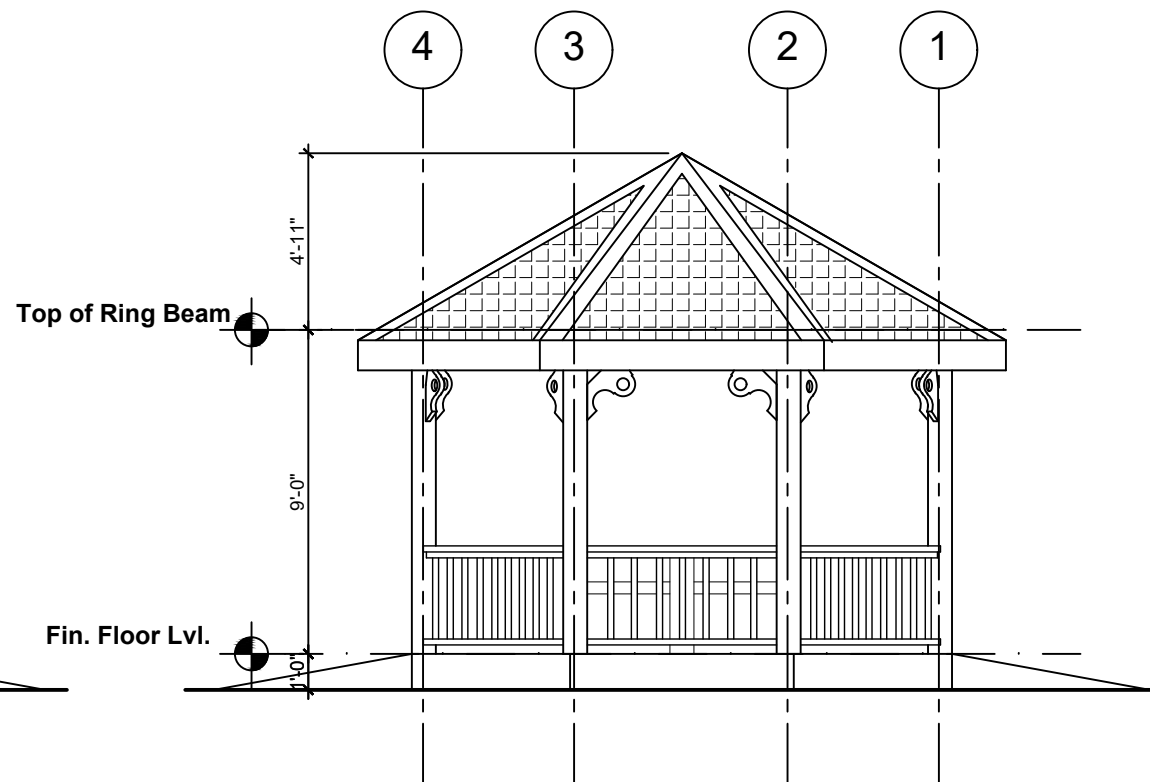
ELEVATION- A



ELEVATION- B



ELEVATION- C



ELEVATION- D

No: DATE: ISSUE:

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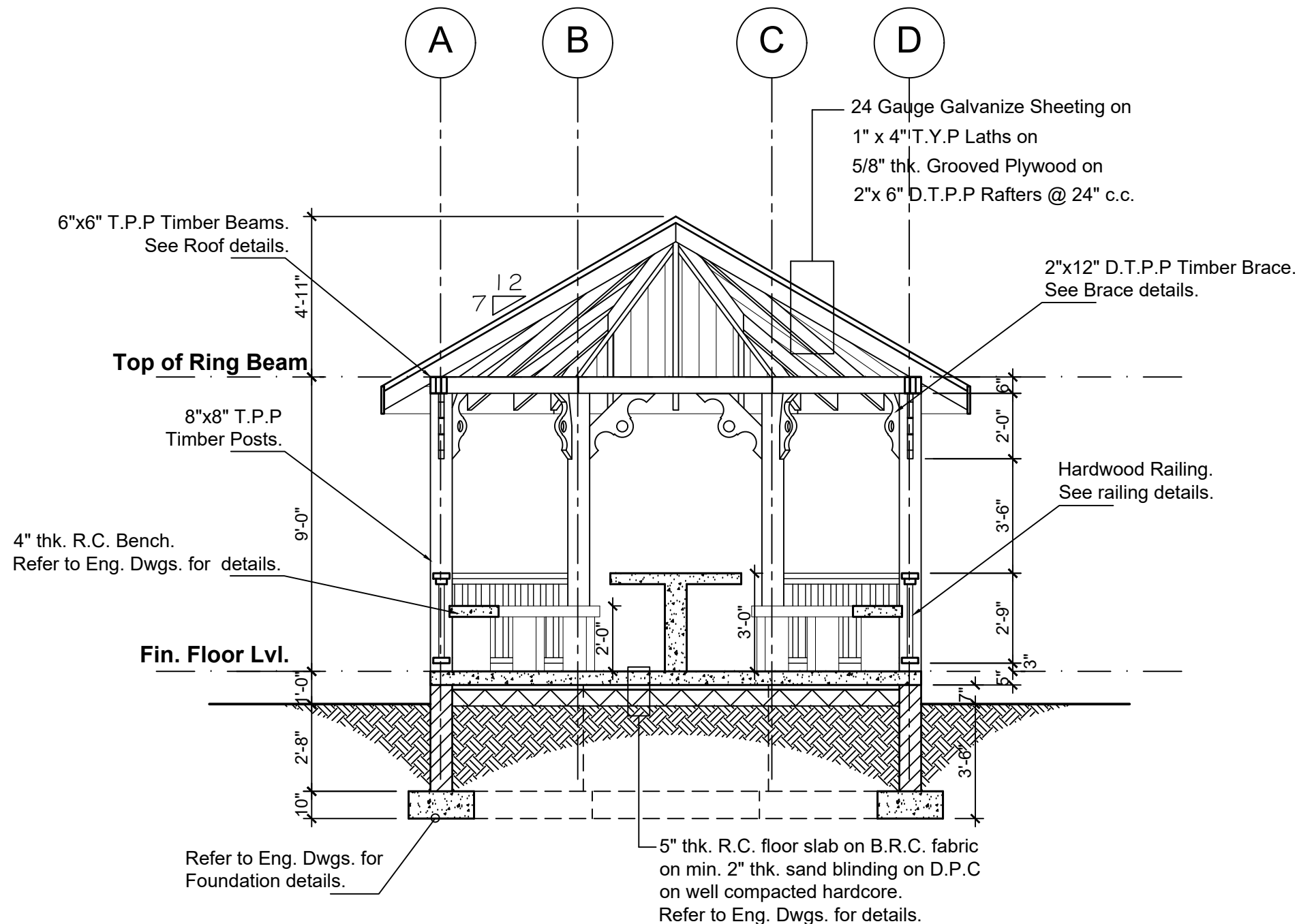
CONSULTANTS:

CLIENT:
Ministry of Tourism

PROJECT:
Troumaca Bay Gazebo

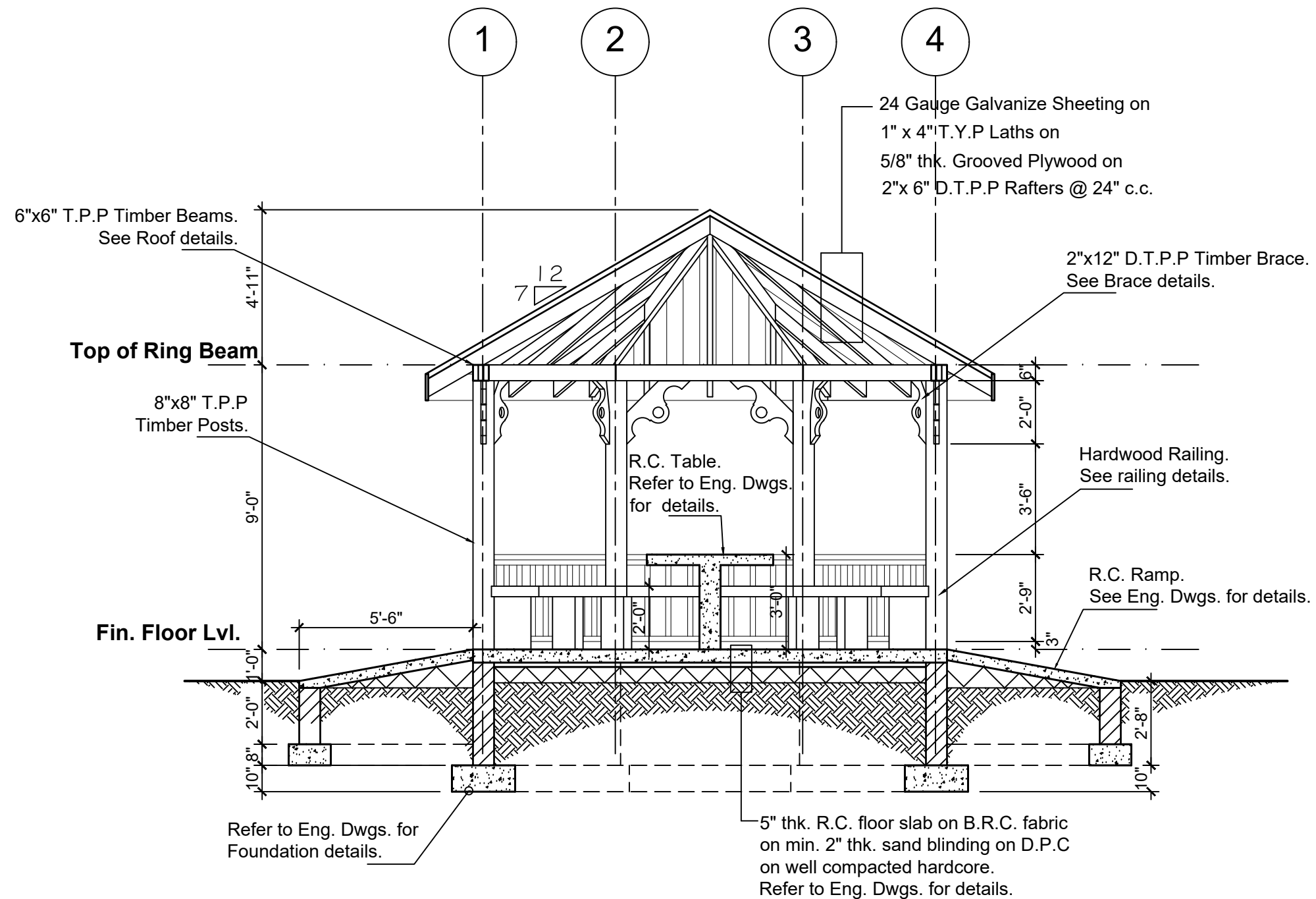
TITLE:
Elevations

PROJ. No:	SCALE: 3/16" = 1'-0"	DRAWN: T. Douglas	DWG. No.
	DATE: May 2024	CHECKED:	A-2



SECTION A-A

No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX ST., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Gazebo		
TITLE: Section A-A		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
DATE: May 2024	CHECKED:	DWG. No. A-3



SECTION B-B

No: DATE: ISSUE:

MTWLPP

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CONSULTANTS:

CLIENT:

Ministry of Tourism

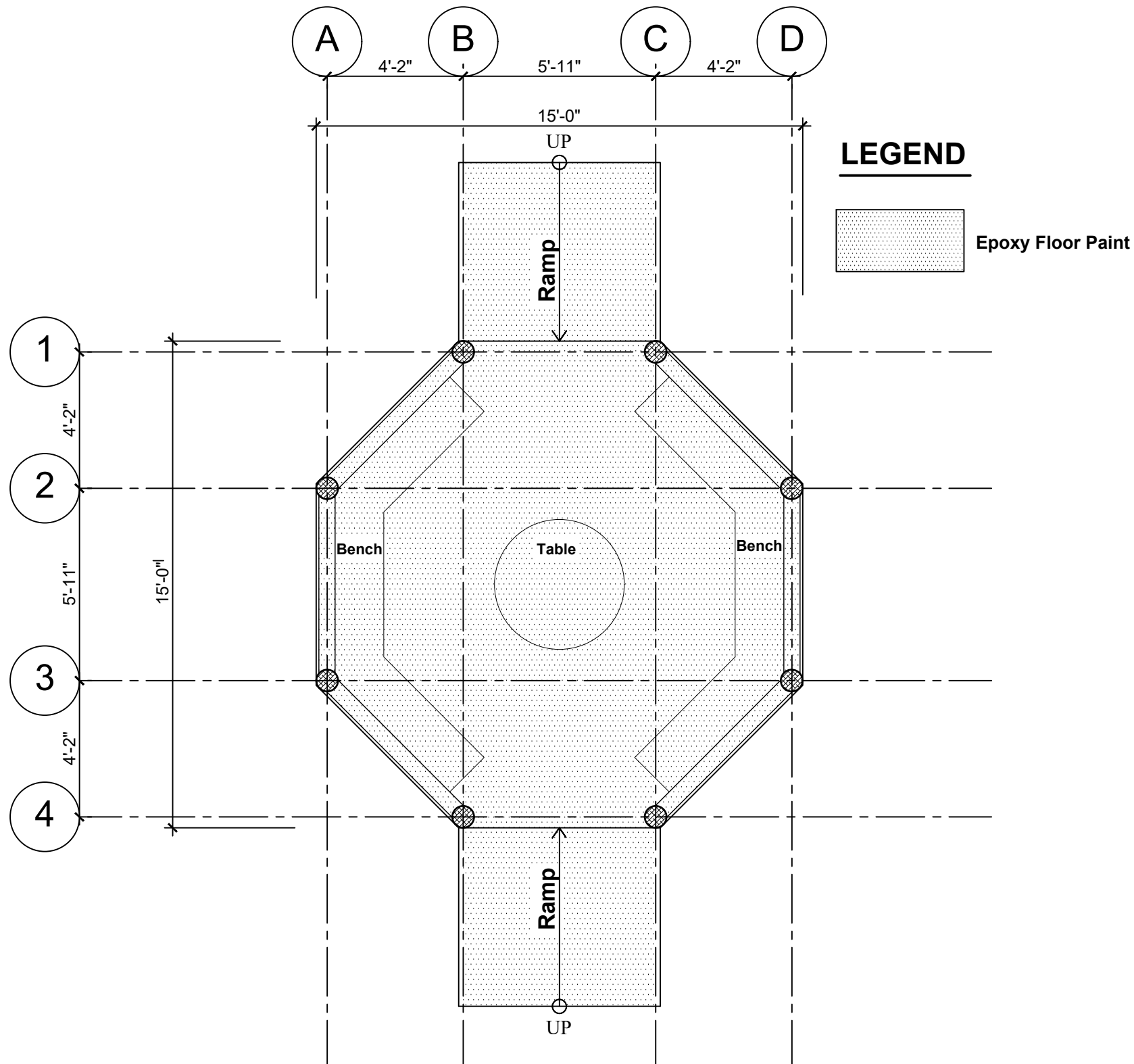
PROJECT:

Troumaca Bay Gazebo

TITLE:

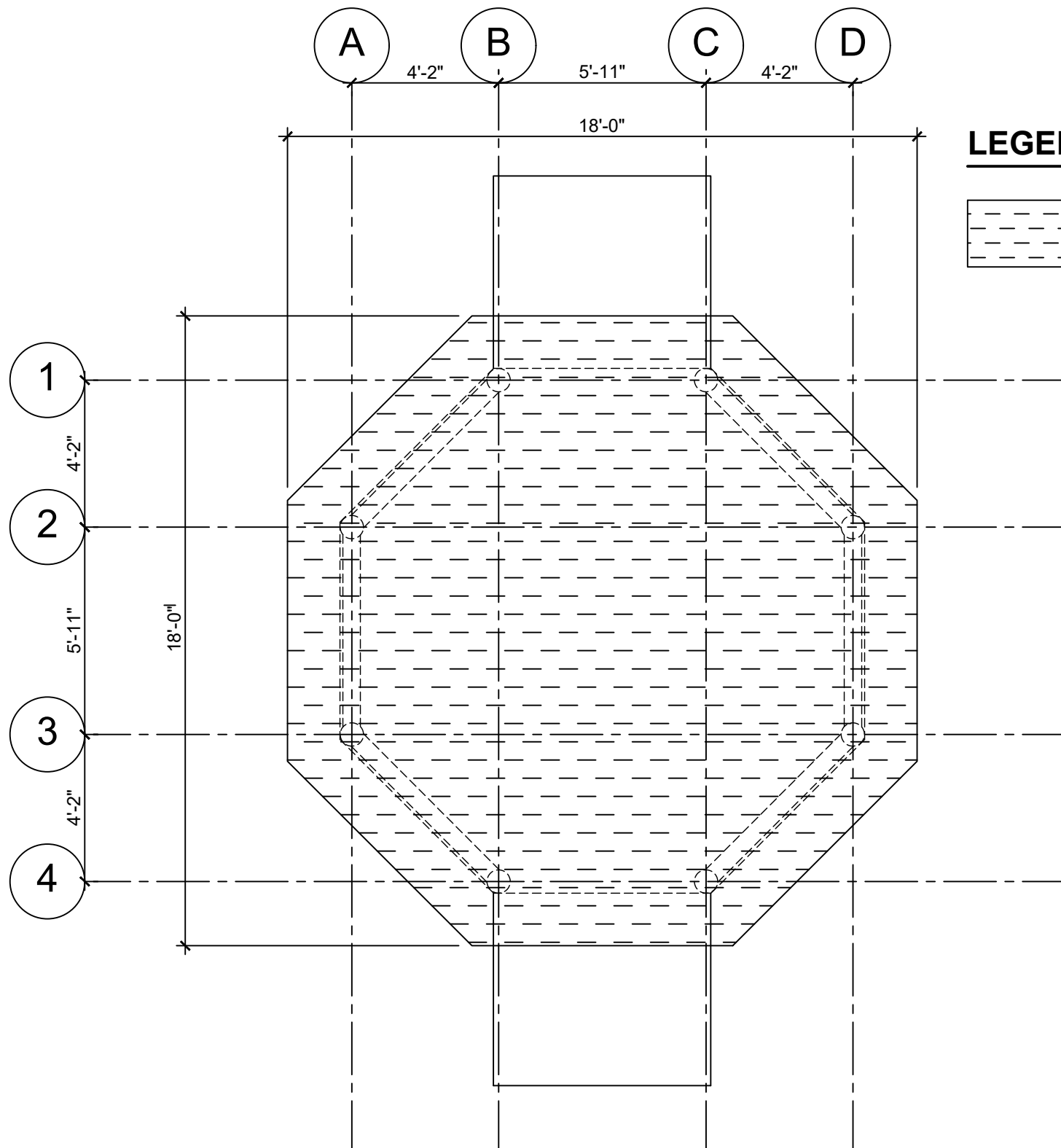
Section A-A

PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas	DWG. No.
DATE: May 2024	CHECKED:	A-4	

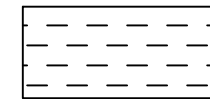


FLOOR FINISHING PLAN

No:	DATE:	ISSUE:
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CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Gazebo		
TITLE: Floor Finishing Plan		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
		DWG. No. A-5

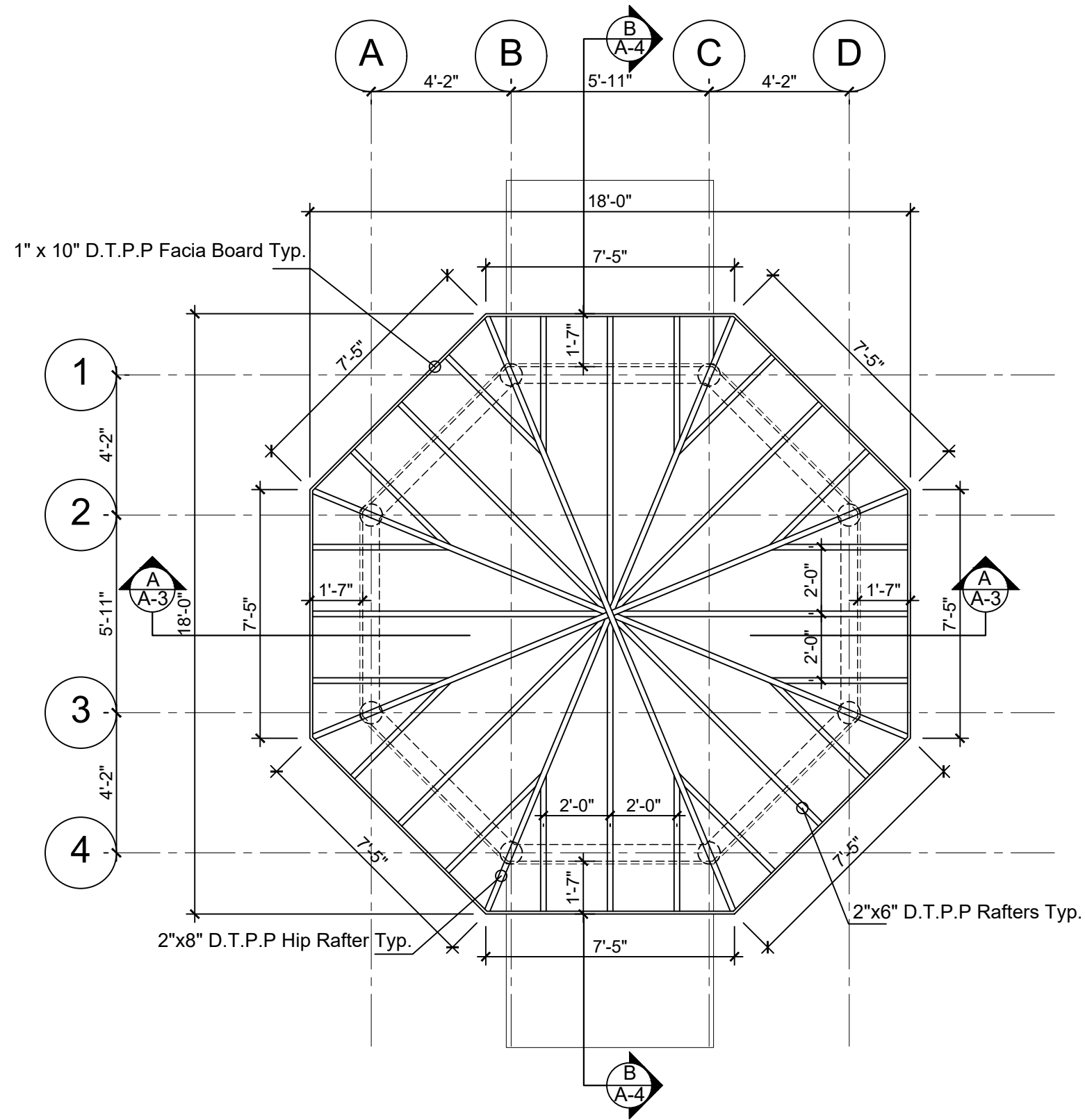


LEGEND

 5/8" Grooved Plywood Ceiling
(Closed Board Ceiling)

REFLECTIVE CEILING PLAN

No:	DATE:	ISSUE:
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CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Gazebo		
TITLE: Reflective Ceiling Plan		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
		DWG. No. A-6



ROOF FRAMING PLAN

No: DATE: ISSUE:

MTWLPP

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TEL: 456-1111 ext. 531

CONSULTANTS:

CLIENT:

Ministry of Tourism

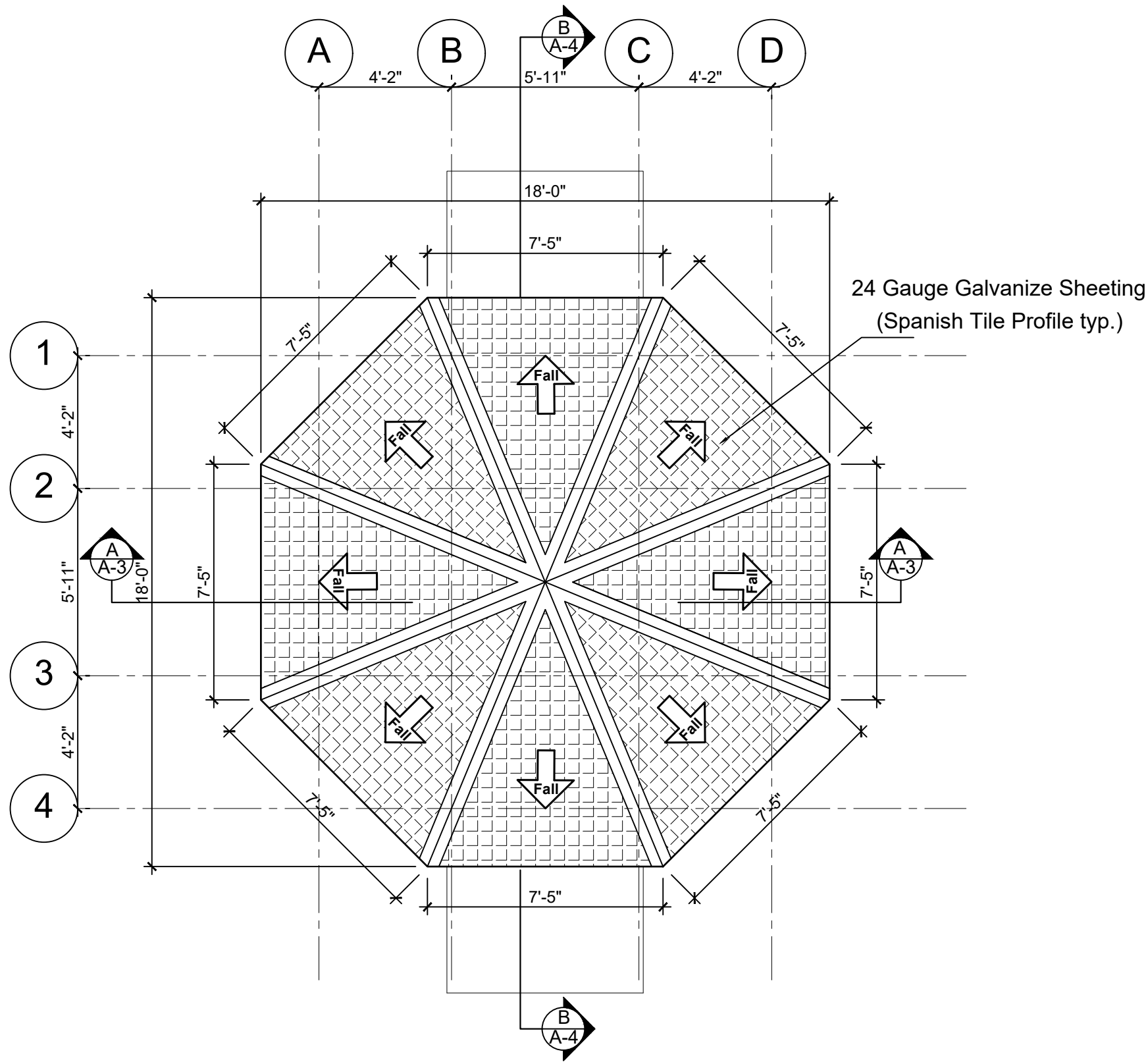
PROJECT:

Troumaca Bay Gazebo

TITLE:

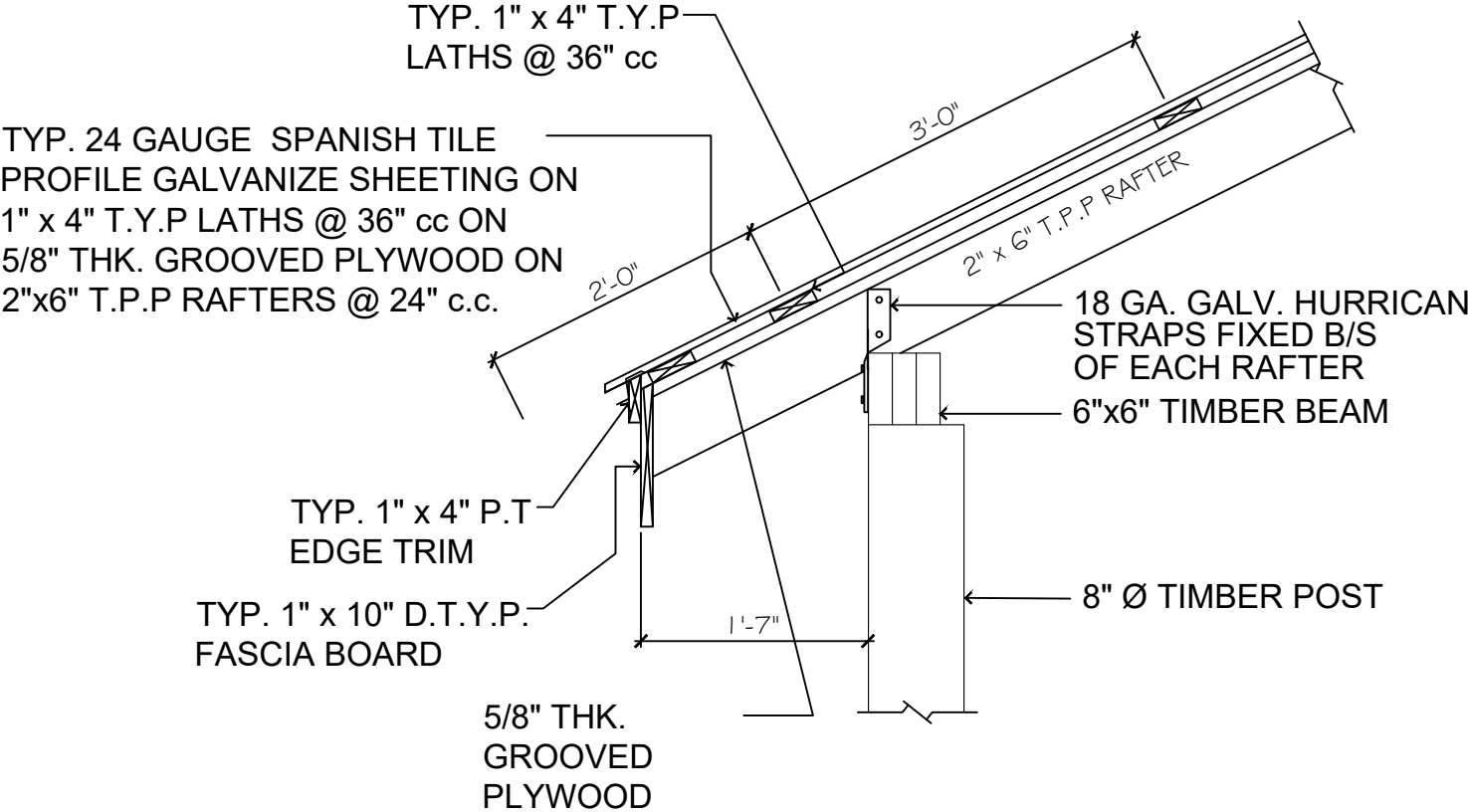
Roof Framing Plan

PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas	DWG. No.
DATE: May 2024	CHECKED:	A-7	

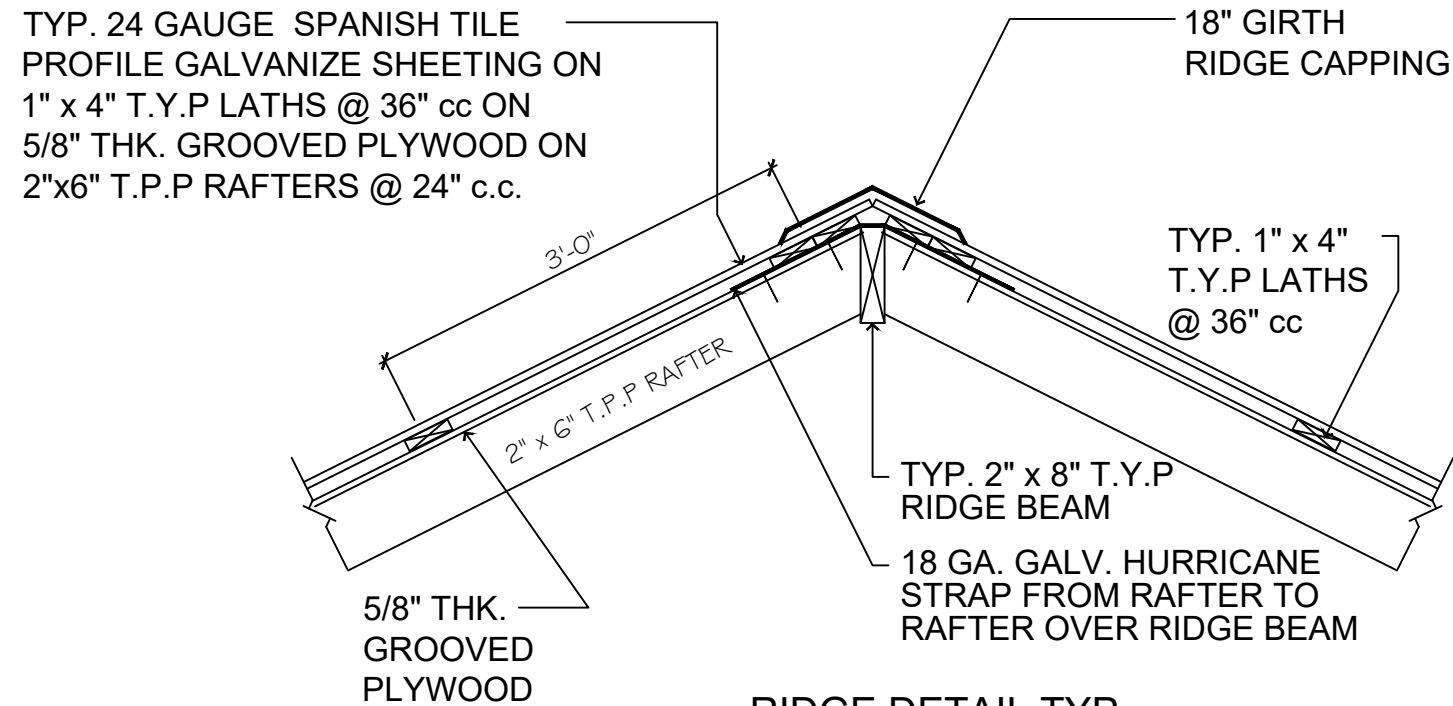


ROOF PLAN

No:	DATE:	ISSUE:
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CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Gazebo		
TITLE: Roof Plan		
PROJ. No:	SCALE: 1/4"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED: A-8
DWG. No.		



ROOF DETAIL AT EAVES TYP.



RIDGE DETAIL TYP.

No: DATE: ISSUE:

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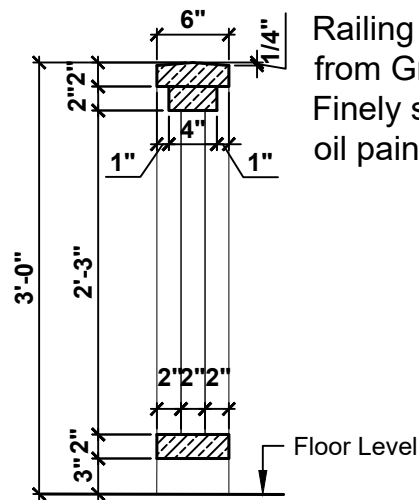
CONSULTANTS:

CLIENT:
Ministry of Tourism

PROJECT:
Troumaca Bay Gazebo

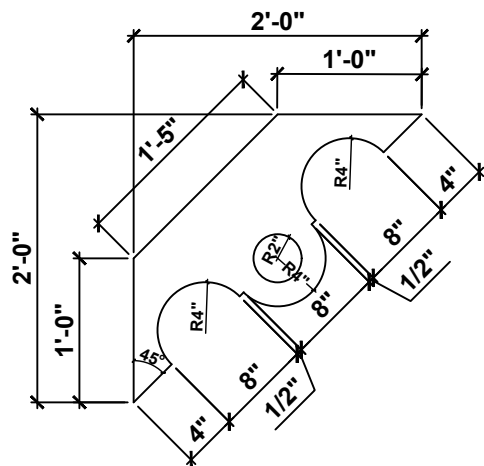
TITLE:
Roof Details

PROJ. No:	SCALE: 3/4"= 1'-0"	DRAWN: T. Douglas	DWG. No.
	DATE: May 2024	CHECKED:	A-9



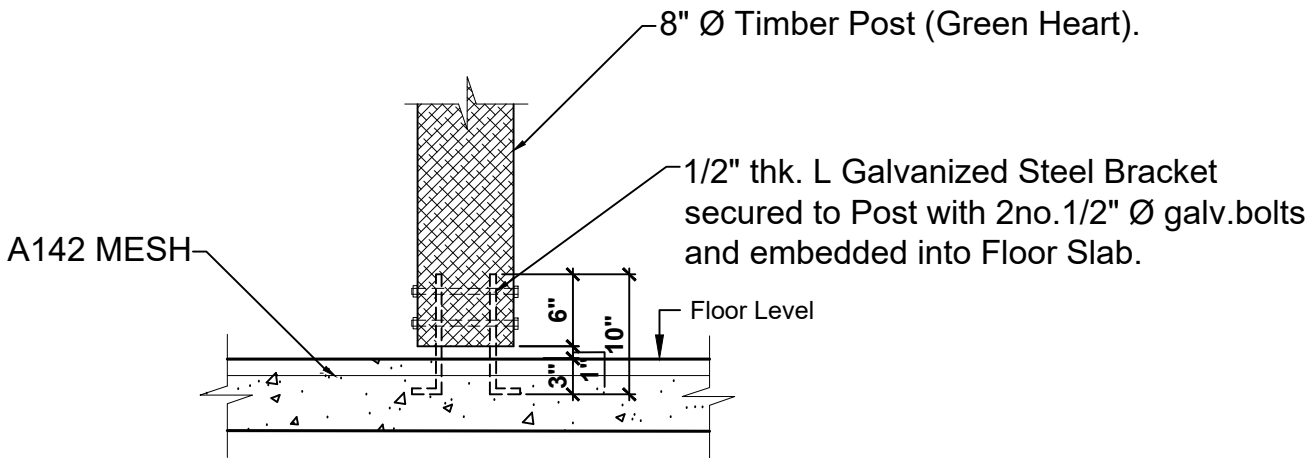
Railing and Balusters to be constructed from Greenheart timber. Finely sanded and painted with 2 coats oil paint.

RAILING DETAIL



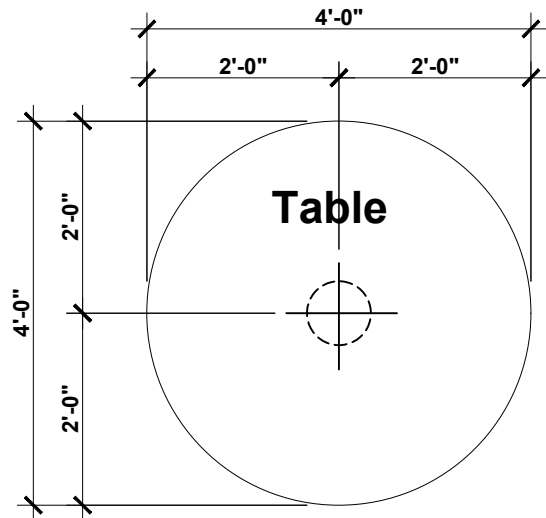
Brace constructed from 2" x 12" D.T.P.P timber.

BRACE DETAIL

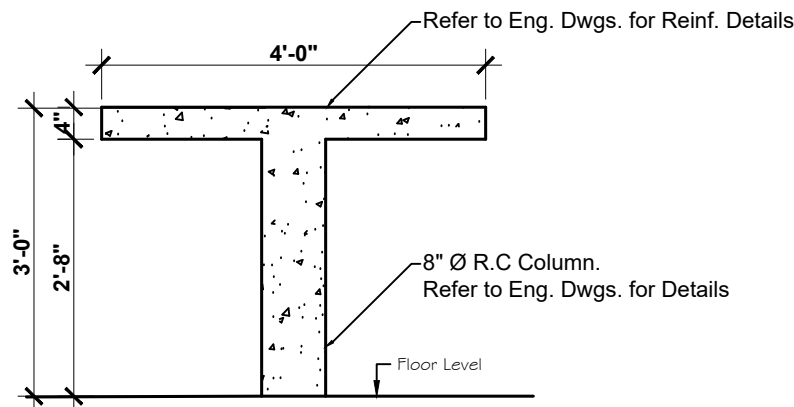


POST BASE DETAIL

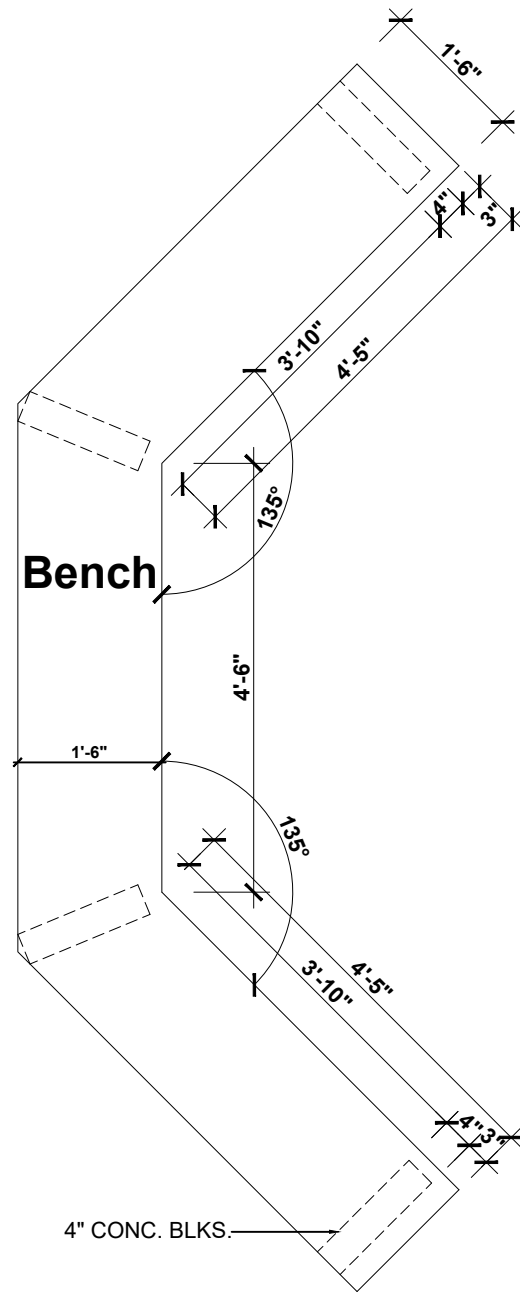
No:	DATE:	ISSUE:
MTWLPP MINISTRY of TRANSPORT, WORKS, LAND and PHYSICAL PLANNING PROJECT MANAGEMENT UNIT, HALIFAX St., KINGSTOWN, St. VINCENT and the GRENADINES TEL: 456-1111 ext. 531		
CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Gazebo		
TITLE: Railing and Post Details		
PROJ. No:	SCALE: 3/4"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
		DWG. No. A-10



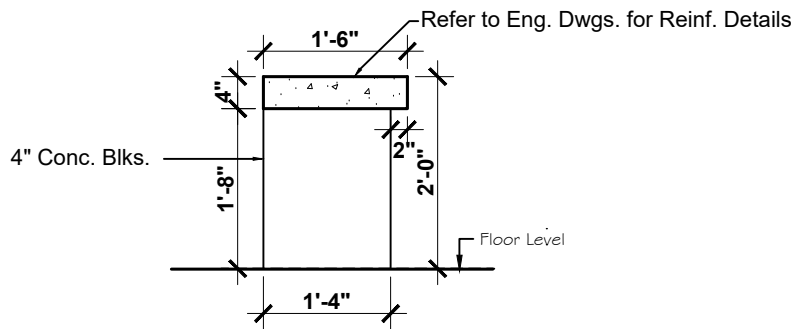
CONC. TABLE PLAN



CONC. TABLE TYP. SECTION

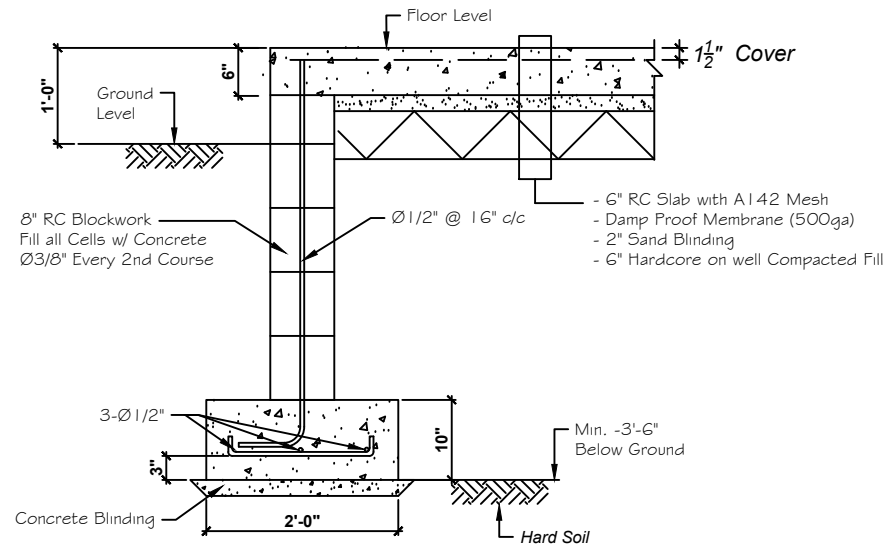


CONC. BENCH PLAN

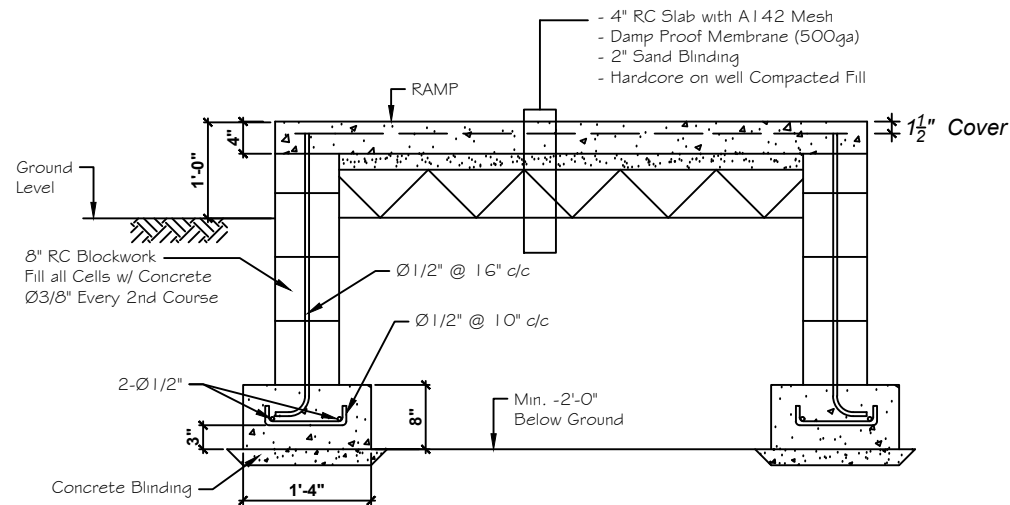


CONC. BENCH TYP. SECTION

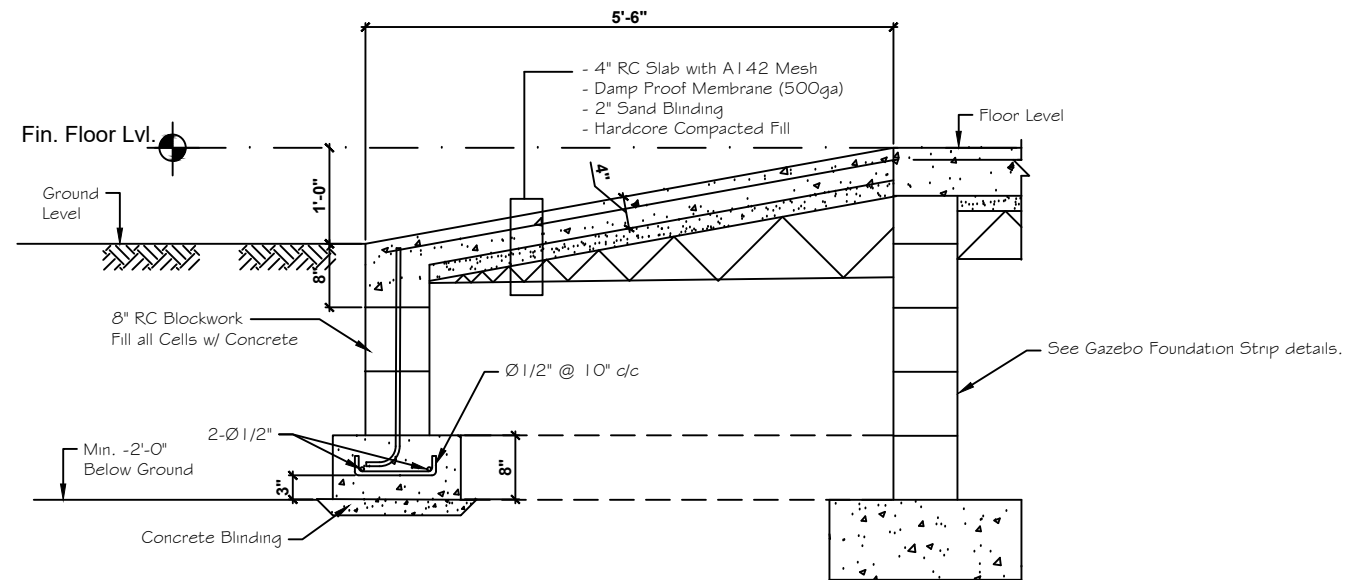
No:	DATE:	ISSUE:
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CONSULTANTS:		
CLIENT: Ministry of Tourism		
PROJECT: Troumaca Bay Gazebo		
TITLE: Table and Bench Details		
PROJ. No:	SCALE: 1/2"= 1'-0"	DRAWN: T. Douglas
	DATE: May 2024	CHECKED:
DWG. No. A-11		



FOUNDATION STRIP FOOTING AND SLAB DETAIL TYP.



FOUNDATION STRIP FOOTING FOR RAMP TYP. (FRONT)



FOUNDATION STRIP FOOTING FOR RAMP TYP. (SIDE)

No: DATE: ISSUE:

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TEL: 456-1111 ext. 531

CONSULTANTS:

CLIENT:

Ministry of Tourism

PROJECT:

Troumaca Bay Gazebo

TITLE:

Foundation Details

PROJ. No:	SCALE: 1/2" = 1'-0"	DRAWN: T. Douglas	DWG. No. A-12
DATE: May 2024	CHECKED:		

DWG NO.	TITLE	SCALE
A19	EXTERNAL RAILING #1 DETAILS	3/4"=1'-0"
A20	EXTERNAL RAILING #2 DETAILS	3/4"=1'-0"

TROUMACA BAY GAZEBO - ARCHITECTURAL

SHEET LIST		
DWG NO.	TITLE	SCALE
A1	FLOOR PLAN	3/8"=1'-0"
A2	ELEVATIONS	3/8"=1'-0"
A3	SECTION A-A	1/4"=1'-0"
A4	SECTION B-B	1/4"=1'-0"
A5	FLOOR FINISHING PLAN	1/4"=1'-0"
A6	REFLECTIVE CEILING PLAN	1/4"=1'-0"
A7	ROOF FRAMING PLAN	1/4"=1'-0"
A8	ROOF PLAN	1/4"=1'-0"
A9	ROOF DETAILS	3/4"=1'-0"
A10	RAILING AND POST DETAILS	3/4"=1'-0"
A11	TABLE AND BENCH DETAILS	1/2"=1'-0"
A12	FOUNDATION DETAILS	1/2"=1'-0"

No:	DATE:	ISSUE:	
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CONSULTANTS:			
CLIENT: Ministry of Tourism			
PROJECT: Troumaca Bay Gazebo			
TITLE: Sheet List			
PROJ. No:	SCALE:	DRAWN: T. Douglas	DWG. No. A-0
	DATE: May 2024	CHECKED:	