OLIVE ROAD AT CARPENTER CREEK

GENERAL NOTES

GENERAL

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROJECT ARCHITECTS PLAN LAYOUT AND GUIDELINES. SUITABILITY FOR ACCESS AND INTENDED USAGE SHALL BE THE RESPONSIBILITY OF THE ARCHITECT.

2. VEHICULAR ACCESS LARGER THAN THE DESIGN LIVE LOAD SHALL BE LIMITED BY PERMANENT PHYSICAL MEANS.

3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS THROUGH THE PROJECT ARCHITECT. PRIOR TO CONSTRUCTION, ALL FOUNDATION LOCATIONS SHALL BE STAKED BY THE SURVEYOR PER THE APPROVED DRAWINGS MARKED 'FOR CONSTRUCTION'.

4. ONLY PERMATRAK NORTH AMERICA MAY PROVIDE THE PRECAST STRUCTURE SHOWN ON THESE PLANS.

5. INSTALLER SHALL NOT CUT OR MODIFY ANY PERMATRAK COMPONENTS WITHOUT PERMATRAK'S APPROVAL.

6. THE INSTALLER IS RESPONSIBLE FOR THE APPROPRIATE MEANS AND METHODS FOR THIS PROJECT, INCLUDING ENSURING PROPER CONSTRUCTIBILITY OF ALL COMPONENTS SHOWN ON THESE PLANS. NO EQUIPMENT MAY BE OPERATED ON THE STRUCTURE, UNLESS NOTED OTHERWISE IN THE DESIGN DATA ON THIS SHEET.

7. A MATERIAL CHANGE TO THE BOARDWALK SYSTEM IS NOT ALLOWED AND NOT CONSIDERED AN EQUAL.

8. PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES, BUILDING LOCATIONS, EXISTING FOUNDATIONS AND TREE ROOTS (AS APPLICABLE) SHALL BE LOCATED TO VERIFY NO CONFLICTS EXIST WITH THE STRUCTURES SHOWN ON THESE PLANS.

DESIGN DATA

1. BOARDWALK SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE LRFD GUIDE SPECIFICATION FOR THE DESIGN OF PEDESTRIAN BRIDGES.

2. DESIGN LIVE LOAD: PEDESTRIAN LOADING - 90 PSF UNIFORM
VEHICULAR LOADING - H-5 DEISGN TRUCK (10,000 LB. VEHICLE)
RAILING LOAD: 30 PLF

FOUNDATIONS SHALL BE DESIGNED FOR THE FOLLOWING.

APPLIED PIER/PILE LOADS:
COMPRESSION: 39 KIPS (FACTORED)
LATERAL: = 1.4 KIPS (FACTORED)

3. A HYDRAULIC ANALYSIS, INCLUDING SCOUR EVALUATION, HAS NOT BEEN PERFORMED BY PERMATRAK. THIS SCOPE IS THE RESPONSIBILITY OF THE DESIGN CONSULTANT.

4. PRECAST, PRESTRESSED PILES SHOWN ON THESE PLANS SHALL BE DESIGNED BY OTHERS. PILES SHALL MEET FDOT 2023-2024 STANDARD INDEX 455-012.

5. THE RAILING SUPPLIER IS RESPONSIBLE FOR THE ENGINEERING OF THE DETAILED RAILING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

6. ALL GEOTECHNICAL RECOMMENDATIONS CONTAINED IN THE REPORT OF SUBSURFACE INVESTIGATION SHALL BE FOLLOWED.
REPORT "OLIVE ROAD (CR209) IMPROVEMENTS PEDESTRIAN BRIDGE" WAS DATED JUNE 8. 2022 AND PRODUCED BY TIERRA. PILES SHALL BE INSTALLED TO AN MINIMUM TIP ELEVATION OF 60.00 FT. CONTRACTOR TO VERIFY PILE CAPACITIES ARE SUFFICIENT TO SUPPORT THE DESIGN LOADS NOTED ABOVE.

MATERIAL

1. FASTENERS, BOLTS AND HARDWARE SHALL BE GALVANIZED, FIBER REINFORCED POLYMER (FRP) OR GRADE 316 STAINLESS STEEL.

2. ALL REINFORCING SHALL BE UNCOATED GRADE 60 CONFORMING TO ASTM A615.

3. ALL TREADS AND BEAMS SHALL BE ADELAIDE GRAY IN COLOR AND ALL TREADS SHALL HAVE THE 'BEACHWOOD' TEXTURE, PROVIDED BY PERMATRAK.

PROJECT COMPONENTS

SUPPLIED BY PERMATRAK
PRECAST CONCRETE TREADS
PRECAST CONCRETE BEAMS
RUBBER SPACER PADS (BETWEEN TREADS)
RUBBER LEVELING PADS (BETWEEN TREAD AND BEAM)
CLIP ANGLE KITS
SIKAFLEX SELF LEVELING SEALANT
SIMPSON STRONG-TIE SET-3G (EPOXY ANCHORING SYSTEM)
SHIMS (LEVELING FOR PRECAST COMPONENTS)
ELASTOMERIC BEARING PADS (BETWEEN BEAM AND FOUNDATION)
PRECAST CONCRETE CAPS AND LIFTING INSERTS
3/4" DIAMETER X 1'-6' LONG THREADED BARS WITH NUTS AND WASHERS (BEAM TO PIER CONNECTION)
3/4" DIAMETER X 1'-3" LONG THREADED BARS WITH NUTS AND WASHERS (CAP TO PILE CONNECTION)
PATCHING MATERIAL

SUPPLIED BY CONTRACTOR
EXPANSION JOINT MATERIAL
RAILING AND CONNECTION HARDWARE
CAST-IN-PLACE CONCRETE
PRECAST PRESTRESSED CONCRETE PILES

PERMATRAK BOARDWALK LOCATION PLAN

PREPARED BY:
PERMATRAK NORTH AMERICA
8050 CORPORATE CENTER DRIVE
SUITE 100-J
CHARLOTTE, NC 28226
CERTIFICATE OF AUTHORIZATION #30529

Patented Product: U.S. Patent #5,906,084 #8,302,362 #8,522,505 #8,839,588 #9,096,975

NO.	DATE	DESCRIPTION	BY:
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PREPARED FOR:
MOFFAT & NICHOL

FOR BIDDING PURPOSES
NOT FOR CONSTRUCTION

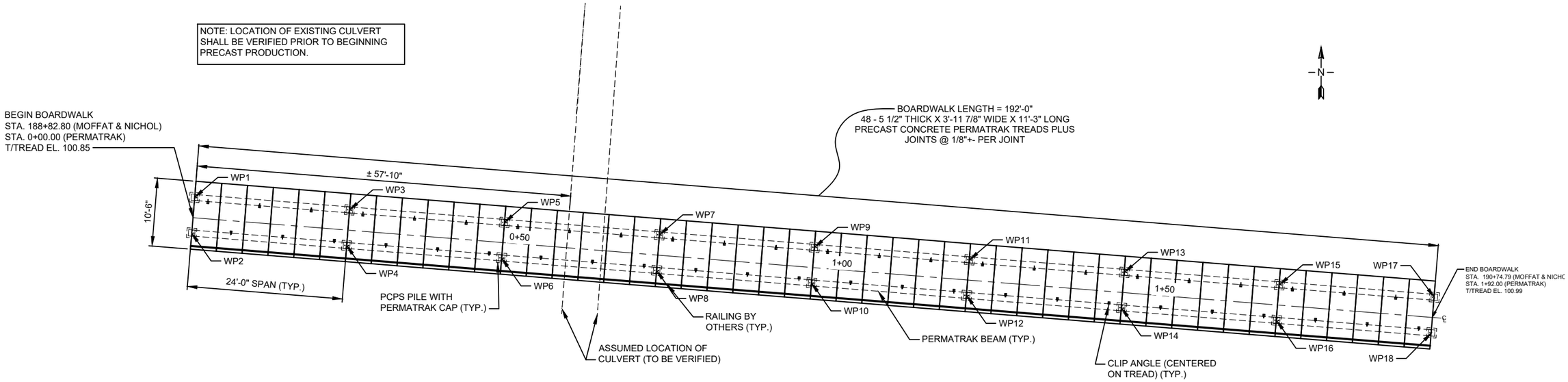
PermaTrak®
The Concrete Boardwalk Company
www.permatrak.com TEL: 877-332-7862

OFFICE LOCATIONS
NORTH CAROLINA
SOUTH CAROLINA
FLORIDA
OHIO
GEORGIA
TEXAS

PROJECT TITLE:
OLIVE ROAD AT CARPENTER CREEK
ESCAMBIA COUNTY, FL

JOB NUMBER:	2022-1792
DATE:	10/08/2024
DESIGNED BY:	KAS
DRAWN BY:	KAS
CHECKED BY:	KAS
SHEET NO.	PT01

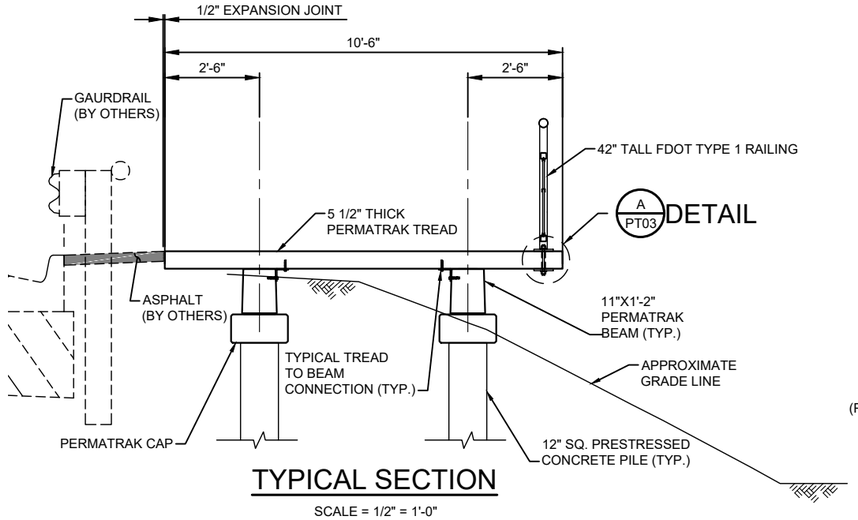
NOTE: LOCATION OF EXISTING CULVERT SHALL BE VERIFIED PRIOR TO BEGINNING PRECAST PRODUCTION.



BOARDWALK PLAN

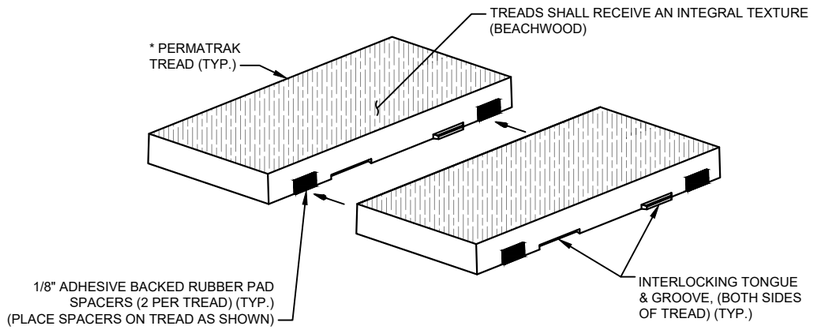
SCALE = 3/16" = 1'-0"

WORKPOINT (WP, CENTER OF PILE)	STATION	OFFSET
WP1	188+82.77	18.13' RT
WP2	188+82.77	23.62' RT
WP3	189+06.78	18.13' RT
WP4	189+06.78	23.62' RT
WP5	189+30.79	18.13' RT
WP6	189+30.79	23.62' RT
WP7	189+54.80	18.13' RT
WP8	189+54.80	23.62' RT
WP9	189+78.81	18.13' RT
WP10	189+78.81	23.62' RT
WP11	190+02.82	18.13' RT
WP12	190+02.82	23.62' RT
WP13	190+26.83	18.13' RT
WP14	190+26.83	23.62' RT
WP15	190+50.84	18.13' RT
WP16	190+50.84	23.62' RT
WP17	190+74.84	18.13' RT
WP18	190+74.84	23.62' RT



TYPICAL SECTION

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



TYPICAL TREAD RUBBER SPACING DETAIL

SCALE: NOT TO SCALE

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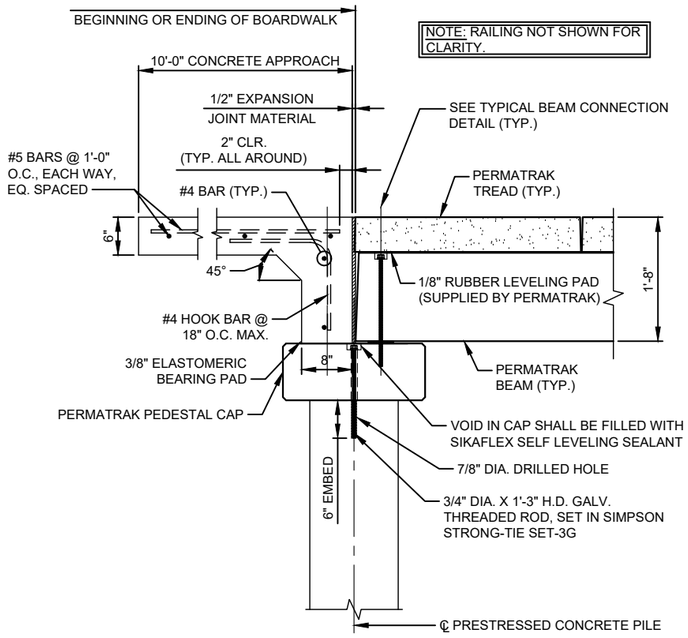
TEXAS

PROJECT TITLE:

OLIVE ROAD AT
CARPENTER
CREEK

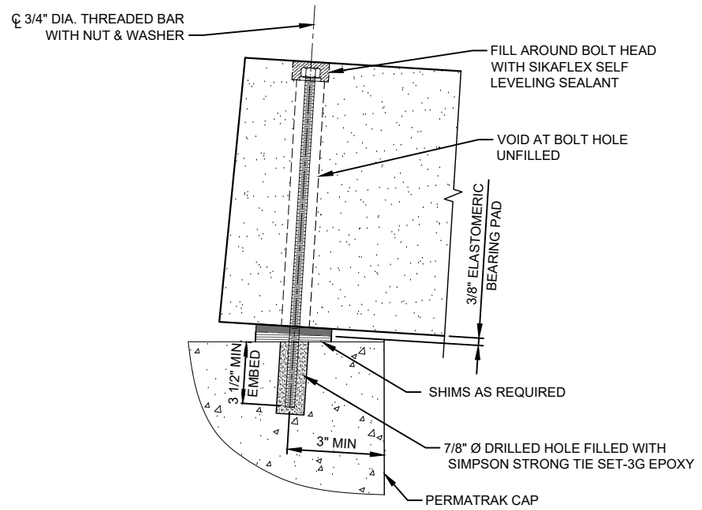
ESCAMBIA COUNTY, FL

JOB NUMBER:	2022-1792
DATE:	10/08/2024
DESIGNED BY:	KAS
DRAWN BY:	KAS
CHECKED BY:	KAS
SHEET NO.	PT02



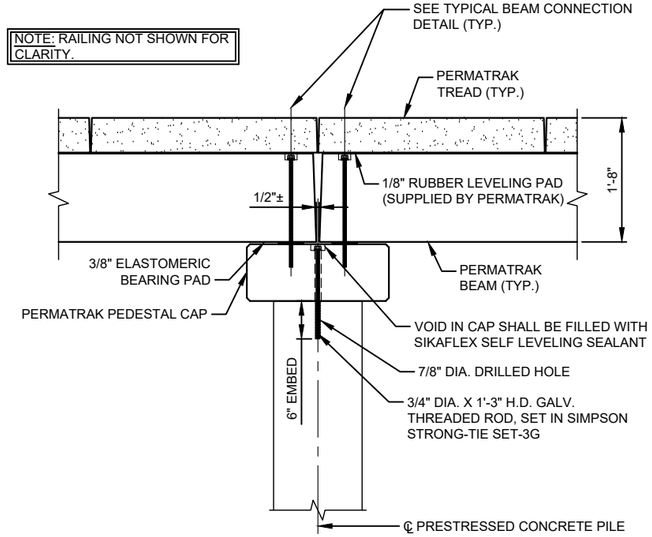
TYPICAL PIER CONNECTION DETAIL

SCALE: 1" = 1'-0"



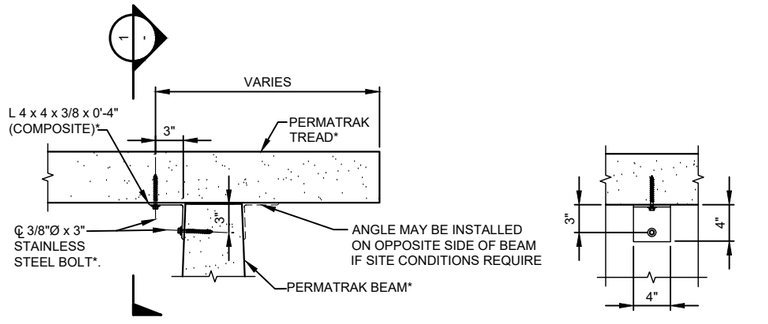
TYPICAL BEAM TO CONCRETE FOUNDATION/CAP CONNECTION DETAIL

SCALE: NOT TO SCALE



TYPICAL PIER CONNECTION DETAIL

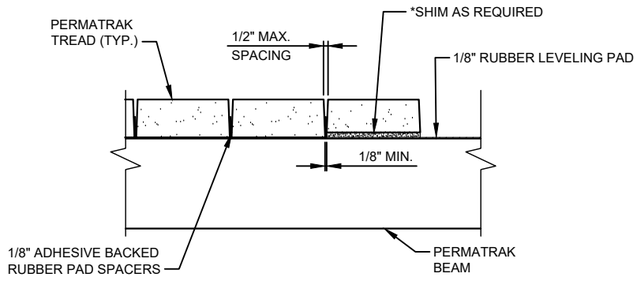
SCALE: 1" = 1'-0"



NOTES:
1. ALL HOLES IN PRECAST SHALL BE DRILLED BY CONTRACTOR.
2. DRILLED HOLES IN PRECAST SHALL BE 3/8"Ø AND INSTALLED PER MANUFACTURER INSTALLATION REQUIREMENTS.
3. * INDICATES SUPPLIED BY PERMATRAK.
4. ONE (1) CLIP ANGLE IS REQUIRED PER TREAD. LOCATION OF CLIP ANGLE ON TREAD SHALL ALTERNATE SIDES FROM TREAD TO TREAD. (SEE PLAN VIEW ON PT02).

TREAD TO BEAM CONNECTION

SCALE: NOT TO SCALE

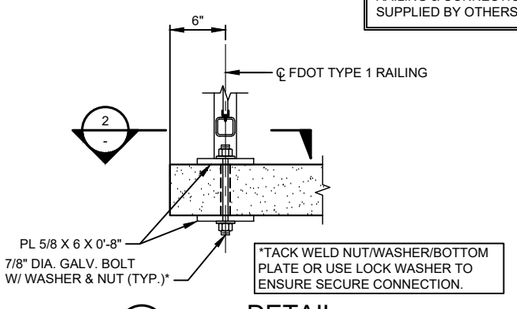


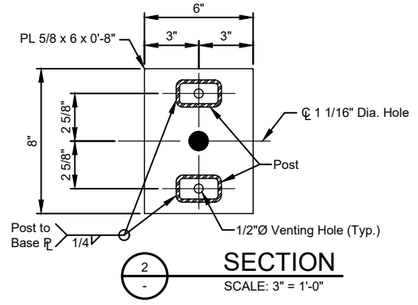
*NOTE:
DUE TO TOLERANCES AND VARIANCE IN PRECAST PRODUCTION AND INSTALLATION ACCURACY, SHIMS MAY BE REQUIRED. ADDITIONAL RUBBER LEVELING PADS MAY BE USED FOR SHIMMING.

TYPICAL SHIM (UNDER TREAD) & TREAD SPACING DETAIL

SCALE: NOT TO SCALE

NOTE:
RAILING & CONNECTION HARDWARE SUPPLIED BY OTHERS (TYP.).





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PREPARED FOR:

MOFFAT & NICHOL

FOR BIDDING PURPOSES NOT FOR CONSTRUCTION

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PROJECT TITLE:

OLIVE ROAD AT CARPENTER CREEK

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JOB NUMBER:	2022-1792
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DRAWN BY:	KAS
CHECKED BY:	KAS
SHEET NO.	PT03

ELEVATED PRECAST CONCRETE BOARDWALK PROJECT SPECIFICATIONS

V4.1 UPDATED SEPTEMBER 2023

PRECAST CONCRETE BOARDWALK SYSTEM

PART 1-GENERAL

1.1 SUMMARY

A. These specifications are for a precast concrete boardwalk and shall be regarded as minimum standards for this project. These specifications are based upon products designed and supplied by:

PermaTrak North America LLC
Ph: (956) 229-1848
Ph: 877-332-7862
www.permatrak.com
Contact: Mr. Jonathan Dove
jdove@permatrak.com

This item shall also include the design, specification, and construction of a railing and foundation system that is attached to the proposed boardwalk system.

1.2 MINIMUM STANDARDS: The selected boardwalk shall have the following minimum characteristics:

A. The precast system shall be designed as a modular flexible system allowing a prescribed settlement at pier locations. Joints shall be designed for such movement to occur without damage to the structural integrity of the system.

B. Boardwalk system (beams, treads, and curbs if applicable) must be reinforced precast concrete. A material change, including cast-in-place concrete, is not considered an equal to the design shown on the bid documents.

C. Walking surface (treads) shall be made of reinforced precast concrete, and supported by reinforced precast concrete beams. Where applicable, edges of treads will receive precast concrete curbs.

D. Walking surface (finish) of top surface of treads shall have a formliner finish with one of PermaTrak's standard textures. Texture must be integral with the concrete and shall not be an applied post pour wearing surface.

E. Precast concrete treads shall be structural load bearing elements and shall interlock with one another via a “tongue and groove” connection.

F. All precast shall consist of integrally colored concrete in a color selected by the owner from one of PermaTrak's “standard colors”. All color pigment shall meet ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete.

G. DESIGN LOADS: See PT01 for pedestrian and vehicular design live loads.

H. Treads shall maintain a “boardwalk appearance”, specifically meaning each tread shall have a width: length ratio ranging from a minimum of 3:1 to a maximum of 14:1. Width is defined as the tread dimension perpendicular to the normal direction of travel. Length is defined as the tread dimension measured in the direction of travel.

I. Tread width shall be as noted on the contract drawings. Alignment should follow the horizontal and vertical alignment shown on the contract plans.

J. Connectors for curbs (if applicable) to treads shall not be visible to boardwalk users while viewed from the top of the walkway.

K. All tread-to-beam connectors shall be non-corrosive, and hidden from view. Metallic tread-to-beam connectors are not acceptable for this project.

L. Boardwalk supplier shall provide a field representative on site for a minimum of 2 days. Field representative shall be knowledgeable in the installation of precast concrete boardwalks.

1.3 QUALITY ASSURANCE

A. The contractor performing the installation of the pile foundations shall have installed piles of size and length similar to those shown on the plans for a minimum of three (3) years prior to the bid date for this project. The contractor shall submit a list containing at least three (3) projects completed in the last three (3) years on which the contractor has installed piles of a size and length similar to those shown on the plans. The list of projects shall contain names and phone numbers of owner's representatives who can verify the Contractor's participation on those projects.

B. Manufacturer Qualifications: Not less than 10 years experience in the actual production of precast products as described below.

1. Components shall be factory fabricated and engineered by single entity. This entity shall be registered to do business in the State of the project location.
2. Boardwalk supplier (Precaster) for the boardwalk shall have in-house color mixing facilities for color pigmentation.
3. Boardwalk supplier (Precaster) shall have either a minimum experience of 5 years or 50 boardwalk projects in design, production, and field consultation.
4. Boardwalk supplier (Precaster) must be certified by PCI or NPCA.
5. Precast components must be manufactured with the use of hot rolled steel skin in reinforced steel forms. Temporary (i.e., Timber) and/or single use forms are unacceptable unless approved in writing by the Boardwalk Engineer.

C. Acceptability Criteria for Treads and Curbs (if applicable): The finished visible (in the final installed position) surface shall have no obvious imperfections other than minimal color or texture variations from the approved samples or evidence of repairs when viewed in good typical daylight illumination with the unaided naked eye at a 20 ft. viewing distance. Appearance of the surface shall not be evaluated when light is illuminating the surface from an extreme angle as it tends to accentuate the minor surface irregularities. The following is a list of finish defects that shall be properly repaired, if obvious when viewed at a 20 ft. distance. Patching (by a trained skilled concrete repair person) is an acceptable repair method.

1. Ragged or irregular surfaces.
2. Excessive air voids (commonly called bug holes) larger than ¼ in. evident on the top surface of the tread or curbs (if applicable).
3. Adjacent flat and return surfaces with greater texture and/or color differences than the approved samples or mockups.
4. Casting and/or aggregate segregation lines evident from different concrete placement lifts and consolidation.
5. Visible mold joints or irregular surfaces.
6. Rust stains on exposed surfaces.
7. Units with excessive variation in texture and/or color from the approved samples, within the unit or compared with adjacent units.
8. Blocking stains evident on exposed surfaces.
9. Areas of backup concrete bleeding through the facing concrete.
10. Foreign material embedded in the surface.
11. Visible repairs at a 20 ft. viewing distance.
12. Reinforcement shadow lines.
13. Cracks visible at a 20 ft. viewings distance.

D. Installer Qualifications: Firm with 3 years experience in installation of systems similar in complexity to those required for this Project.

E. Mock-Up: Provide, if required by Architect/ Engineer, a mock-up for evaluation of the boardwalk showing the surface preparation techniques and application workmanship.

1. Finish areas designated by Architect / Engineer.
2. Do not proceed with remaining work until mock-up is accepted by Architect / Engineer.
3. Refinish mock-up area as required to produce acceptable work.

1.4 DESIGN

A. For applications requiring minimum disturbance due to tree roots or other existing objects specified by the Owner to be avoided during construction, the Boardwalk Manufacturer requires the Contractor or Engineer/Architect to provide a survey of the proposed boardwalk location identifying items of interest including tree roots that cannot be disturbed per the Owner.

B. The designer of the boardwalk, foundation and railing system shall be a qualified registered Professional Engineer licensed in the State of the project location and having a minimum of 20 years of experience in the design of concrete structures, foundation and railing systems.

C. The foundation design shown on the boardwalk drawings are based recommendations found in the geotechnical report entitled referenced on PT01 (if applicable).

A. DESIGN CRITERIA: The design of the boardwalk and railing system shall comply with the following guidelines:

1. AASHTO LRFD Guide Specifications for The Design of Pedestrian Bridges, 2nd Edition with 2015 Interim Revisions.
2. Latest Version of AASHTO LRFD Bridge Design Specifications for Highway Bridges.
3. Latest Version of American Concrete Institute - Building Code and Commentary.
4. In addition to the dead loads of the system, the structure shall be designed for the live loads defined in Section 1.2 G above.

1.5 SUBMISSIONS: Prior to the start of fabrication or construction, the Contractor shall submit to the Engineer a design package, which shall include, but is not limited to, the following:

A. FOR APPROVAL SUBMISSIONS: Prior to the start of fabrication or construction, the Contractor shall submit to the Engineer a design package, which shall include but not limited to the following:

1. DETAILED PLANS:
   a. PLAN VIEW: Full plan view of the boardwalk, foundation and railing system drawn to scale. The plan view must reflect the proposed horizontal alignment as shown on the design plans.
   b. PARTIAL ELEVATION VIEW (IF REQUESTED): Full elevation view of the boardwalk, railing and foundation system drawn to scale which reflect the actual vertical alignment. Elevation views shall indicate the elevation at the top and bottom of the boardwalk and foundation system components.
   c. DETAILS: Details of all boardwalk and railing system components and their connections such as the length, size and where changes occur; connections; etc.
   d. CODE REFERENCE: Design parameters used along with AASHTO references.
2. CONSTRUCTION SPECIFICATIONS:
   a. Construction methods specific to the boardwalk vendor chosen. Submittal requirements such as certification, quality and acceptance/rejection criteria shall be included. Details on connection of boardwalk units and foundation system such that assurance of uniform load transfer shall be checked.

B. FINAL SUBMISSION: Once a boardwalk, foundation and railing system design has been reviewed and accepted by the Owner, the Contractor shall submit the final plans. The designer of the boardwalk, foundation and railing system is responsible for the review of any drawings prepared for fabrication. One set of all approved shop drawings shall be submitted to the Engineer's permanent records.

C. SUBMITTALS: Product Data: Submit Manufacturer's technical product data for railing components and accessories.
Manufacturer to supply submittal drawings for approval to include the following:

1. Section-thru details.
2. Mounting methods.
3. Typical Elevations.
4. Key plan layout.

D. SHOP DRAWINGS: Shop drawings shall:

1. Be stamped by a licensed Professional Engineer in the State of the project location.
2. Show actual field conditions and true elevation and location supplied after field verification.
3. Clearly detail reinforcement in beams, treads and curbs including clear dimension from concrete edge, size and amount of rebar.
4. Clearly state concrete compressive strength, steel type and strength, and a listing of all component weights including lifting locations.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Field Measurements: Where handrails and railings are indicated to fit to other construction, check actual dimensions of other construction by accurate field measurements before fabrication; show recorded measurements on final shop drawings:

1. Where field measurements cannot be made without delaying the railing fabrication and delivery, obtain guaranteed dimensions in writing by the Contractor and proceed with fabrication of products so as not to delay fabrication, delivery and installation.

C. Coordinate fabrication and delivery schedule of handrails with construction progress and sequence to avoid delay of railing installation.

1. Air entrained composed of Portland cement, fine and course aggregates, admixtures and water. The air-entraining feature may be obtained by the use of either an air entraining Portland cement or an air entraining admixture. The entrained air-content shall be not less than four percent or more than seven percent.

1.7 WARRANTY:

A. Contractor will be responsible for installation defects associated with the boardwalk and abutment components, foundation system, and railings for a period of 12 calendar months from the date of final acceptance by the Owner.

B. Boardwalk manufacturer shall warranty all precast concrete components against defects in material and workmanship for a period of 10 years.

C. Railing manufacturer shall warranty the railing against defects in materials and workmanship for a period of 12 months.

1.8 MEASUREMENT AND PAYMENT

A. Precast concrete boardwalk, railings, and foundations shall be paid for at the contract lump sum price as listed in the bid proposal for “Precast Concrete Boardwalk”. This price shall include all materials, equipment, labor and work necessary for and incidental to the design, construction, delivery, unloading, assembly, and placement of the boardwalk and foundation as shown in the contract plans including all railings on the superstructure.

PART 2-MATERIALS & TESTING

2.1 PRECAST CONCRETE: shall conform to the following:

A. The minimum compressive strength of the concrete shall be 4000 psi measured at 28 days.
B. All precast concrete shall contain structural steel reinforcement as designed by the Engineer of record.
C. All precast concrete components shall be air entrained composed of Portland cement, fine and course aggregates, admixtures and water. The air-entraining feature may be obtained by the use of either an air entraining Portland cement or an air entraining admixture. The entrained air-content shall be not less than four percent or more than seven percent.
D. All reinforcing steel shall be standard uncoated steel conforming to ASTM A615

PART 3 - EXECUTION

1.1 PRECAST CONCRETE BOARDWALK

A. Installation of the precast concrete boardwalk system and railings, if applicable, shall be performed in accordance to the approved plans and manufacturers installation instructions. Boardwalk manufacturer shall provide a field representative to review installation instructions with the Contractor and Engineer and to certify that the installation has been performed according to the approved drawings and manufacturer's instructions.

PREPARED BY:
PERMATRAK NORTH AMERICA
8050 CORPORATE CENTER DRIVE
SUITE 100-J
CHARLOTTE, NC 28226
CERTIFICATE OF AUTHORIZATION #30529

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