ADDENDUM 1 SEPTEMBER 9, 2021

South Jersey Transportation Authority Request for Bids

ATLANTIC CITY EXPRESSWAY (ACE) 2021 WEST MAINTENANCE ADDITION PROJECT

NOTICE

This Addendum is considered part of this Request for Bids and must be acknowledged with your Bid Submission.

The following pages contain:

- A. Meeting minutes from the non-mandatory virtual pre-bid conference held on September 8, 2021.
- B. Submitted Questions & Answers
- C. Additional Clarifications & Changes
- D. Attachments

A. NON-MANDATORY PRE-BID MEETING MINUTES:

The non-mandatory pre-bid meeting was conducted on September 8, 2021 at 1:00 P.M., virtually via GoToMeeting.com. Minutes of the Pre-Bid Meeting follow. The sign-in sheet for the Pre-Bid Meeting is included as an Attachment to Addendum No. 1.

Name	Representing	Phone Number
Ruth Ann Joyce	SJTA, Engineering	609-561-6643
Bhushan Pathare	SJTA, Engineering	609-561-6643
Shawn Carpenter	SJTA, Engineering	609-561-6643
Ashlee Mathes	SJTA, Purchasing	609-965-6060
Julie Manalang	SJTA, Purchasing	609-965-6060
Rich Tewksbury	T&M Associates	215-282-7857
Bob Koochagian	T&M Associates	215-282-7856
Contractors and Suppliers	See attached sign-in	

The following individuals attended:

The purpose of this meeting was to discuss the ACE 2021 WEST MAINTENANCE ADDITION PROJECT Bid Package with prospective bidders.

The following items were discussed during the meeting:

- I. Introductions & Opening Remarks
 - A. Shawn Carpenter gave the opening remarks, gave the introductions and asked that questions be held until the end.
- II. Affirmative Action
 - A. <u>Affirmative Action:</u> Shawn Carpenter discussed the following affirmative action issues. The Bidder should review and become familiar with the following items:
 - Substitution Policy, *Page ITB-10*.
 - Mandatory Equal Employment Opportunity "Exhibit B" Language, *Pages P-3 – P-5.* Must be submitted with bid.
 - Affirmative Action Evidence for Procurement Form, Page P-13.
 - AA201 forms must be submitted, once the contract is awarded and prior to the start of work, to SJTA's Affirmative Action Officer, as listed below. The AA201 form will be generated by the State of New Jersey to the awarded contractor for the project. Certified payrolls shall also be submitted by the awarded contractor directly to the SJTA's Affirmative Action Officer as listed below:

Doris McClinton, A.A. Officer South Jersey Transportation Authority 19 South New York Avenue Atlantic City, NJ 08401 (609) 344-4149 ext. 428 Fax: (609) 344-7409 Email: dmcclinton@sjta.com

- III. Scope of Work / Project Description
 - A. Rich Tewksbury provided a description of the scope of work as follows:
 - 1. The project is located at the Atlantic City Expressway West Maintenance Yard, near mile post 38 on the Expressway.
 - 2. In general, the project includes the construction of a new +/- 919 square foot addition to the existing maintenance facility. The building will be constructed of concrete foundations and slab-on-grade, cold-formed-metal-framed walls and roof, metal siding and EPDM roofing.
 - 3. The addition will contain a storage room, locker room and a single office. It will be powered from the existing building electrical service and have dedicated HVAC equipment.
 - 4. All work will be required to be coordinated with the Owner and facility.
 - 5. The Contractor is responsible to submit, pay for and obtain DCA construction permits.

- 6. Revised structural drawings will be issued in Addendum #1 with a few minor changes and clarifying the testing and inspection scope (Special Inspections are not required).
- 7. Site Visits may be scheduled on an individual basis by submitting a request to <u>bids@sjta.com</u> (See ITB Item #1).
- IV. Notice to Bidders and General Requirements
 - A. Rich Tewksbury reviewed the following Notice to Bidders and General Requirements items:
 - 1. A mandatory Bid Security is required (*pages NTB-2 and P-6 of the specifications*) to be submitted at 10% of the total bid price and not to exceed \$20,000.00, in the form of Bid Bond, Certified Check or Cashier's Check.
 - 2. A Consent of Surety is mandatory from all bidders and can be found on *Page P-7* of the Proposal Section. All bidders must file one.
 - 3. Sealed bids are due **Tuesday**, **September 21**, **2021** @ **1:00 PM**, at the **SJTA Administration Building located at Farley Service Plaza**, marked to the attention of the Purchasing Department, **or via BidExpress**. Bidders and the public may witness the opening of the bids at the time and date indicated via GoToMeeting at:

https://global.gotomeeting.com/join/718702397

Bidders can also dial into the meeting by phone at +1 (571) 317-3112, Access Code: 718-702-397

- 4. The bid proposal/submitting a bid procedure was discussed and all parties were made aware of the following forms:
 - 1. Bid Proposal Section, Page P-1 to P-38, single sided loose yellow section in clear sleeve.
 - \circ $\,$ The single sided loose section is to be submitted with the bid in the enclosed envelope.
 - The project may be bid electronically through BidExpress, in lieu of hard copy, if the Bidder prefers.
 - 2. Proposal Checklist, *Page P-1 to P-2*, for mandatory and nonmandatory forms. Please complete the checklists, sign and include with your bid.
- 5. Subcontractor Declaration, *Page P-9.* Declaration of Subcontractors for the protected trade categories: Plumbing, HVAC, Electrical and Structural Steel as required by the State of New Jersey.

The following subcontractors must be identified and prequalified or classified in the following areas:

Mechanical: DPMC Code C032 – HVACR **Electrical:** DPMC Code C047 – Electrical

Provide written proof of prequalification and include copy of matching, current license with bid.

- 6. **General Contractor Pre-Qualification**, *Page NTB-1*, *P-36 and ITB-11:* As the GC, you need to be prequalified in at least one of the following NJDPMC Trade Codes at the time of bid submission:
 - DPMC Trade Code C008 General Construction
 - DPMC Trade Code C009 General Construction / Alterations & Additions

The bidder only need be prequalified in one of these at the time of bid submission; not all.

- 7. Bid Form, *Page P-11 to P-12*.
 - The Authority, according to law, reserves the right to reject any or all bids and also to waive any minor informality or non-material exceptions in any bid or bids so received. There is no guarantee that the Authority will award this bid in any form and in submitting a bid the bidder agrees to this understanding.
 - **Please Note:** Page P-12 in the Project Manual included on the CD's purchased from Purchasing includes a formatting error. A corrected P-12 has been included in clear sleeve to be used when submitting your bid.
- 8. Contract Insurance Requirements, *GC-77 thru GC-83*. Specific requirements are specified. You need to include this in your bid. After checking with your insurance provider, include the cost in your bid and sign off on the Insurance Acknowledgement Form, *page P-35*.
- 9. Prevailing Wage Act Compliance Declaration, *Page P-20. The most current rates have been included in the specification as per the time of printing.* Contractor is responsible for checking with the NJ Department of Labor website. Please be sure to check the current rates before bidding. Also, if you are awarded the project, per the Department of Labor, the rates that are in effect on the date of the award are the rates that must be used for the project. You are required to file this certificate on your "named" subs only as well prior to award and to bid subs they must already have a Prevailing Wage Certificate.
- V. Questions
 - A. Rich Tewksbury reviewed the following regarding Questions:

- A. All questions about the meaning or intent of the Bid and Contract Documents (technical questions) must be submitted in writing to the Authority's Purchasing Department via fax to 609-965-7315 or emailed to <u>bids@sjta.com</u>. Oral and other interpretations or clarifications will be without legal effect. When submitting a question or request for clarification, the subject line of the email must contain the word "Question" followed by the title of the Bid or RFP.
- B. Deadline for receipt of Questions is Monday, September 13, 2021 at 4:00 P.M.; (see Instructions to Bidders for email/fax, Page ITB-3.)
- C. Addenda, Page ITB-3

Addenda will be issued and posted on the Authority's website at <u>www.sjta.com</u>, under "Bids & Contracts". There are no designated dates for release of addenda. Addenda can be issued up to the time of bid. Therefore, interested bidders should check the Authority's website on a daily basis from the time of the bid issuance through the bid due date. It is the sole responsibility of the bidder to be knowledgeable of all addenda related to this procurement.

Failure to acknowledge each addendum on the Acknowledgement of Receipt of Addenda (P-10) is cause for disqualification of the bid.

- VI. Award & Notice to Proceed
 - A. Rich Tewksbury noted the following are the anticipated dates for the award and notice to proceed for this contract:
 - 1. Board Approval October 20, 2021
 - 2. Governor's Veto Period will occur after the award and runs approximately 15 business days from receipt of the Board Meeting minutes.
 - 3. Estimated Notice to Proceed <u>after veto period</u>
 - 4. Standard payment application and requirements will be provided at the preconstruction meeting. The 25th of each month is the cutoff for payment requests; all estimates are to be received by SJTA on the 25th of the month. Certified Payrolls are required with Payment applications.
- VII. General Conditions
 - A. Rich Tewksbury noted the following general conditions of the project/contract:
 - 1. **TIME TO COMPLETE:** *Page ITB–11*. The Contractor shall commence the work required by the Contract Documents within <u>seven (7)</u> calendar days after the date of the notice to proceed. The Contractor shall complete all work required by the Contract Documents within the number of

calendar days noted below from and including the date of the written notice to proceed unless the period of completion is extended otherwise pursuant to the Contract Documents:

• One Hundred Fifty (150) Calendar Days

- 2. Liquidated Damages may be assessed at \$1,000.00 per day for each calendar day that the Contractor shall be in default in completing the work to be done under the contract, *Page ITB-11*.
- 3. There are no free tolls. Contractors are to pay all tolls.
- 4. Contractor will be required to submit a project schedule in Primavera format or approved other.
- 5. Bidders are to refer to the Wage Rates provided in Appendix 1 of the Project Specifications. (Also reference item IV.9 Prevailing Wage Act Compliance Declaration above.)
- 6. Contractor will be required to submit a maintenance bond at the end of the project for 100% of the final contract price for two years.
- 7. WORK HOURS: All work shall be completed during normal hours, weekdays 7AM-3:30PM.
- 8. An addendum will be issued following this meeting that includes the minutes from the Pre-Bid meeting, the sign-in sheet and any answers to questions posed at the meeting, if applicable.
- 9. All bidders are hereby advised, the South Jersey Transportation Authority does not release information regarding the project costs and estimates. Therefore, any and all information from any third-party entity such as online bid sourcing companies should be considered invalid. Project information is available to Bidders on the Authority's website at <u>www.sjta.com</u> under "Bids & Contracts."

VIII. SJTA Purchasing

- A. Julie Manalang, SJTA Purchasing, discussed and made bidders aware of the following forms:
 - 1. Public Works Contractor Registration, Department of Labor, Wage & Hour (*P*-21).
 - 2. Business Registration Certification, *Department of Treasury, Division of Revenue*, (*Page P-22 to P-23*). Please note new web address: http://www.nj.gov/treasury/revenue/busregcert.shtml

- 3. Ownership Disclosure and Two-Year Certification & Disclosure of Political Contributions (*P-26 to P-31*).
- 4. Source Disclosure Form (*P*-32).
- 5. Ownership Disclosure Form (*P*-8)
- 6. Disclosure/Certification of Investment Activities in Iran (*P-37, ITB-12*)
- 7. **Bid Express** The South Jersey Transportation Authority is pleased to announce that we are now moving to electronic bidding. *(ITB-12)*

While it is a transition period, hard copies are still accepted. It is pertinent that all vendors register with Bid Express because the South Jersey Transportation Authority will be transitioning to only electronic bidding in the near future (**February 1**, <u>2022</u>; not 2021).

Request Bid Startup Guide by emailing <u>bids@sjta.com</u>.

- 8. Physical Plans & Specs are still available for purchase if needed (\$50.00 cash or check) at the SJTA Administration Building.
- 9. Purchasing is available to answer questions regarding the checklist items via telephone at 609-965-6060 until the bid due date/ Please contact Darleen Adamo at ext. 232 or Ashlee Mathes at ext. 229.
- IX. Questions posed at Pre-Bid Meeting.

See Section B. below.

B. SUBMITTED QUESTIONS & ANSWERS

- Q1: I understand from your comment earlier that there are no Special Inspections required. However, there is a note for independent testing to confirm the 3-hr rating of an existing wall. Who will be responsible for performing that testing?
- A1: This is in reference to CA100 Note 1 and A100 Key-Note 1. The Contractor shall disregard the notes and instead, grout the existing CMU wall solid, full height along the entire length of the new addition.
- Q2: Who is the existing fire alarm vendor.
- A2: The building does not contain an existing fire alarm system; it contains local interconnected smoke detectors. There is no existing fire alarm vendor.

C. ADDITIONAL CLARIFICATIONS & CHANGES

- Special Inspection, in accordance with IBC Chapter 17, are not required for this project.
- See attached revised Structural drawings, and corresponding revised Cover Sheet.

D. ATTACHMENTS

- Pre-Bid Meeting Sign-in Sheet
- Revised Drawings: CS-1, S200, S200a, S201, S300 and S500

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Ker STA Ker STA Ker STA	rmative Action SJTA $N//$	COMPANY SJTA/Engineering	TRANSPOR FARLEY SE HAN (609) 965-6060 THE ATLANTIC CITY ESPRESSWA NON-MAN WEDNESDAY, South Jers South Jers Please join my meeting Please join my meeting Neeting? Get the app now and be ready wh	(N)
based Sta. Com based Sta. Com based Sta. Com	Via conference call	PHONE 609 561 6643 ext. 346	CTLL JERUSET RVICE PLAZA • P.O. BOX 351 AMONTON, N.J. 08037 • (800) 658-0606 • FAX (609) 965-7315 • (900) FRE-BID MEETING • (901) FRE-BID MEETING • (901) FRE-BID MEET, tablet or smartphone. • (901) First meeting starts: <a href="https://global.gotomeeting-tails-in-the-in-t</th> <th>ITTH IFRCFY</th>	ITTH IFRCFY
		EMAIL rjoyce@sjta.com	Diane Gutierrez-Scaccetti Chair Stephen F. Dougherty Executive Director OJECT 3112 Access Code: 718-702-397	

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Atlantic City Expressway • Atlantic City International Airport • Transportation Services

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PREPARED AND RECOMMENDED BY:



X OF DRAWINGS		
DESCRIPTION	DWG. No.	DESCRIPTION
COVER SHEET		
CTURAL		
CODE REVIEW		
GENERAL NOTES & ABBREVIATIONS		
GENERAL NOTES & FIRE RATED PENETRATION DETAILS		
OVERALL BUILDING PLAN		
DEMOLITION & NEW WORK FLOOR PLANS		
REFLECTED CEILING & ROOF PLANS		
EXTERIOR ELEVATIONS & SCHEDULES		
BUILDING SECTIONS & WALL SECTIONS		
ENLARGED WALL SECTIONS		
DETAILS		
STANDARD ADA DETAILS 1		
STANDARD ADA DETAILS 2		
JRAL		
STRUCTURAL GENERAL NOTES		
STRUCTURAL TESTING & INSPECTIONS		
NEW FOUNDATION & FRAMING PLANS		
FOUNDATION AND MASONRY DETAILS		
COLD FORMED METAL FRAMING DETAILS		
ICAL		
MECHANICAL SYMBOLS AND ABBREVIATIONS		
MECHANICAL PARTIAL PLANS		
MECHANICAL DETAILS		
MECHANICAL DETAILS		
MECHANICAL SCHEDULES AND CONTROLS		
MECHANICAL SPECIFICATIONS		
LECTRICAL GENERAL NOTES, SYMBOLS		
AND ABBREVIATIONS		
ELECTRICAL POWER PARTIAL PLANS		
ELECTRICAL REFLECTED CEILING PARTIAL PLAN		
ELECTRICAL SCHEDULES		
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M. ELAINE DASTI, P.E. NEW JERSEY PROFESSIONAL ENGINEER T & M ASSOCIATES

DATE

STEPHEN M. MAZUR, P.E., P.T.O.E. CHIEF ENGINEER SOUTH JERSEY TRANSPORTATION AUTHORITY

DATE

GENERAL NOTES

1.0 GENERAL

1. All work shall conform to the IBC 2018 Building Code, NJ Edition and to all other applicable Federal, State, and local regulations.

Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.

3. Contractor shall coordinate openings and penetrations through the structure as shown on the Architectural, Structural, Mechanical, Electrical, and Plumbing drawings. Provide additional reinforcement as required per the typical details.

4. Contractor shall verify and/or establish all existing conditions and dimensions at the site.

5. If the existing field conditions do not permit the installation of the work in accordance with the details shown, the Contractor shall notify the Engineer immediately and provide a sketch of the condition with their proposed modification of the details given on the contract documents.

6. Contractor shall provide for dewatering as required during excavation and construction.

7. Where alterations involve the existing supporting structure, the Contractor shall provide shoring and protection required to ensure the structural integrity of the existing structure.

8. Bracing, sheeting, shoring, etc., required to support existing buildings, sidewalks, utilities, etc., shall be designed by a professional engineer licensed in the State of New Jersey, engaged by the Contractor; Contractor to provide signed and sealed detailed shop drawings and calculations indicating all shoring work to be performed for submission and review.

9. In no case shall heavy equipment be permitted closer than 8'-0" from any foundation wall. If it is necessary to operate such equipment closer than 8'-0" to the wall, the Contractor shall be the sole responsible party and, at their own expense, shall provide adequate supports or brace the wall to withstand the additional loads superimposed from such equipment.

10. No blasting shall be permitted without written approval.

11. Testing & inspection is required of all construction delineated on the Structural drawings. The Owner shall employ a testing/inspection agency for the concrete and soil testing and inspections. The Contractor shall employ a testing/inspection agency for the Hilti anchor installation inspections. These agencies shall provide personnel with the following minimum qualifications:

- Certified by National Institute for Certification in Engineering Technologies (NICET), or other recognized comparable organization.
- For inspection, sampling, testing concrete: ACI Certified Concrete Field-Testing Technician, Grade I; and Construction Inspector, Level II.
- Submit periodic reports to Engineer during construction. Submit final inspection report summary for each division of work, certified by a licensed professional engineer, that testing & inspections were performed, and that work was performed in accordance with Contract Documents.

12. If initial inspections made by either testing or inspection agency reveal that any portion of the work does not comply with the Contract Documents, additional tests, inspections, and necessary repairs will be made at the Contractor's expense.

13. If differences occur within or between drawings and specifications regarding materials, strength, or quantities, the better material, higher strength, and greater quantity indicated, specified, or noted shall be provided.

14. For the addition to the SJTA West Maintenance Building, existing structural information, dimensions, and elevations were obtained from original design drawings dated January 1964 and drawings for the SJTA West Maintenance Building Addition dated February 25, 2013.

2.0 EXISTING CONDITIONS

Verify and/or establish all existing conditions, locations, and dimensions of walls, slabs, framing, utilities, finishes, materials, and systems affecting the work. Notify the Engineer of any discrepancies from information indicated on contract documents prior to ordering materials. Verify clearances required for all new equipment, piping, ductwork, and related components.

The structural work is based on documents of the existing construction referenced above. Verify and/or establish that existing building components conform to the original building documents. Examine the layout, elevations, member sizes, connection, details, etc. of the existing structure. Report any discrepancies with the original building construction documents to the Engineer before any affected work is performed.

3.0 SELECTIVE DEMOLITION

1. Where building alterations involve supporting the existing structure, provide shoring and protection to ensure the structural integrity of the existing structure. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain.

2. The Contractor is responsible for determining all instances in which shoring is required. Shoring indicated in the Contract Documents may or may not constitute the extent of shoring required.

3. Shoring required to support the existing structure shall be designed by a Professional Engineer licensed in the State of New Jersey, engaged by the Contractor. The Contractor to provide signed and sealed detailed shop drawings and calculations indicating all shoring work to be performed for submission and review.

- 4. Selective Demolition Definitions:
- a. <u>Remove</u>: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or reinstalled.
- b. <u>Remove and Salvage</u>: Detach from existing construction, in a manner to prevent damage, and deliver to Owner/G.C. c. <u>Remove and Reinstall</u>: Detach items from existing construction, in a
- manner to prevent damage, prepare for reuse, and reinstall where indicated.
- d. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.
- The Contractor shall protect the existing building during all selective demolition for the duration of the construction activities.

6. Contractor is to coordinate with Architectural and MEP drawings to establish the extent of wall and slab removal.

7. Coordinate size of openings with tolerances required for casework, stairs, door jambs, ducts, utilities, etc. Coordinate size of opening with ADA requirements, as required.

8. Do not cut openings in beams, columns, walls, or footings without the approval of the Engineer before field cutting the opening.

4.0 EARTHWORK

1. Engineered (controlled compacted) fill within the building area shall be constructed prior to footing excavation. See specifications for requirements of controlled compacted fill.

2. Excavation shall be performed so as not to disturb existing adjacent buildings, streets and utility lines. Verify location of all utilities prior to commencement of work. Hand excavate around utilities as required.

3. Backfill shall be brought up equally on each side of walls. 5.0 FOUNDATIONS

1. Foundations have been designed and footing elevations established on assumptions made by CVM due to no Geotechnical Report available. Design assumptions must be verified/confirmed in the field by a Geotechnical Engineer.

2. Footings shall bear on undisturbed stratum or engineered fill with an assumed minimum bearing capacity of 2,000 psf, which is required to be verified by a Geotechnical Engineer.

3. Prior to footing concrete placement, the footing subgrade shall be approved by the inspecting engineer/geotechnical engineer. If conditions prove to be unacceptable at elevations shown, the excavation shall be lowered to acceptable subgrade material. Fill over-excavation with lean concrete (2500 psi).

4. The bottom of exterior footings shall be a minimum of three (3) feet below finished grade, U.N.O.

5. Slabs on ground shall bear on mechanically compacted soil capable of supporting 1000 psf. Drainage fill under slabs shall be compacted sand and gravel or crushed stone (6" minimum thickness).

6. Contractor shall verify all existing field conditions that may affect the installation of the foundation system as shown prior to starting work. 7. Provide Testing & Inspections for all soils, foundations and related work as λ required on sheet S200a.

6.0 CONCRETE

Concrete shall be reinforced, detailed, and constructed in accordance with the Building Code Requirements for Structural Concrete (ACI 318-14) and the Manual of Standard Practice.

2. Concrete shall have a mir	nimum 28-day co	mpressive strength as follows
<u>Type</u> Footings Foundation Walls	<u>fˈc (psi)</u> 4,000 5,000	<u>Air Entrainment (Y/N)</u> N Y
Slabs on Grade	4,000	→ N / / / / / / / / / / / / / / / / / /
3. Reinforcing steel: ASTM /	A-615 Grade 60.	M

4. All hooks on reinforcement bars shown in sections and details are to be standard hooks per ACI, unless noted otherwise.

5. At the Contractor's option, all hooks on reinforcement bars shown in sections and details for #5 bars and smaller are permitted to be stirrup hooks if a continuous nosing bar is provided.

6. Fiber Reinforcement:

a. Synthetic macro fiber complying with ASTM C1116, Type 3, to be placed in slabs on grade.

b. For pumped concrete with fiber reinforcement, to avoid the potential of the concrete mix clogging the pump, it is recommended to use a 5" minimum diameter pump and pump line.

c. The macro-synthetic fibers are to be added to the mix at the batch plant. Per fiber manufacturer's recommendations the fibers should be the last item added to the truck/mix

7. Fiber Reinforcement Dosage Criteria:

a. Polypropylene/polyethylene synthetic macro fiber complying with ASTM C1116 Type 3, minimum 2-inch length, having an aspect ratio 50 to 90 and meeting ICC-ES Acceptance Criteria for Polyolefin Chopped Strands for use according to AC-383. i. Basis of Design

1. Euclid Chemical Company (The); Tuf-Strand SF

- b. Synthetic Macro Fiber Reinforcement
- i. Measure, batch and mix per ASTM C94 and C1116
- ii. For 6" thick slabs-on-grade: Use dosage that will provide minimum Re3 (Rt150) value of 22 +/- 3% per ASTM C1116 and C1609 in the specified concrete. In no case shall dosage rate be less than 4.0 pounds per cubic yard on concrete.

8. Placing of concrete shall not start until the placement of reinforcing has been approved by the Owner's inspection agency.

9. The following minimum concrete cover shall be provided for reinforcement placed in cast-in-place concrete (non-prestressed) U.N.O.:

- a. Concrete cast against and permanently exposed to earth: 3"
- b. Concrete exposed to earth or weather:
- . No. 6 through No. 18 bars: 2" ii. No. 5 bar, W31 or D31 wire, and smaller: 1.5"

10. Bonding agent shall be used where new concrete is placed against existing concrete. Epoxy bonding agent is required if joint will be exposed to moisture.



11. Use the following cementitious materials, of the same type, brand, and source, throughout the Project: Portland Cement: ASTM C150, Type I

b. Fly Ash: ASTM C618, Class C. Limit percentage, by weight, to 25 percent. Ground Granulated Blast-Furnace Slag: ASTM C989, Grade 100 or 120. Limit percentage, by weight, to 50 percent.

12. Use normal-weight, ASTM C33, Class 3S coarse aggregate or better, graded. Maximum aggregate size is $\frac{3}{4}$ " nominal. Provide aggregates from a single source. Submit material test reports for the aggregate to include service record data indicating absence of deleterious expansion of concrete due to alkali aggregate

13. Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

a. Water-Reducing Admixture: ASTM C494, Type A. Retarding Admixture: ASTM C494, Type B. Water-Reducing and Retarding Admixture: ASTM C494, Type D.

14. Prepare concrete design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test date, or both, according to ACI 301. Proportion normal weight concrete mixtures as follows:

<u>4,000 psi non-air entrained:</u>

Air-Entraining Admixtures: ASTM C260

reactivity.

a. Minimum Compressive Strength: 4000 psi at 28 days. Maximum Water-Cementitious Materials Ratio: 0.45.

Slump Limit: 4 inches, plus or minus 1 inch.

Synthetic Macro-Fiber: Where req'd, uniformly disperse in concrete mixture at manufacturer's recommended rate, but not less than stated in these notes.

<u>5,000 psi air entrained:</u> Minimum Compressive Strength: 5000 psi at 28 days.

b. Maximum Water-Cementitious Materials Ratio: 0.40.

Slump Limit: 4 inches, plus or minus 1 inch. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery.

15. Contraction joint spacing in slab on grade is as follows U.N.O. on drawings: a. Contractor is to submit proposed layout for review by Engineer before

placing slab on grade (not structural slab). b. Provide maximum spacing 2.5 x slab thickness (in feet) with a maximum

aspect ratio of 1.5.

16. Coordinate all under-slab and in-slab utilities and floor penetrations with Civil, M/E/P, and Architectural drawings.

17. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:

> Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. If the pour is less than 5 cu. yd., obtain one composite sample minimum

b. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change

c. Air Content: ASTM C 231, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.

d. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F and below and when 80 deg F and above, and one test for each composite sample.

e. Compression Test Specimens: ASTM C 31/C 31M. i. Cast and laboratory cure three sets of cylinder specimens for each

composite sample. ii. A set of cylinder specimens is defined as follows: 1. If the cylinder size is 6x12, the set shall consist of 2 cylinders. 2. If the cylinder size is 4x8, the set shall consist of 3 cylinders. Compressive-Strength Tests: ASTM C 39/C 39M; test one set of

laboratory-cured cylinder specimens at 7 days, one set of cylinder specimens at 28 days and hold one set of cylinder specimens to be tested at 56 days if the 28 day breaks are low.

i. A compressive-strength test shall be the average compressive strength from a set of cylinder specimens obtained from same composite sample and tested at age indicated.

Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi. Test results shall be reported in writing to Engineer, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7and 28-day tests.

18. The following items must be submitted for review and approval by Engineer:

a. Product Data: for each type of product indicated. Design Mixtures: For each concrete mixture. Indicate amounts of mixing water to be withheld for later addition at Project site.

c. Material Test Reports: For aggregate, from a qualified testing agency, indicating compliance with requirements. Material Certificates: For each of the following, signed by manufacturers:

Cementitious materials

Admixtures

Steel reinforcement and accessories Fiber reinforcement

e. Documentation from synthetic macro fiber manufacturer showing that proposed fiber dosage will meet or exceed the specified Re3 (Rt150)

Steel Reinforcement Shop Drawings:

DATE

09/09/2021

Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material grade, bar schedules, bent bar diagrams, bar arrangement, splices and laps, and supports for concrete reinforcement.

Submit all drawings to Engineer for review prior to the start of fabrication or commencement of work.

ADDENDUM #1

DESCRIPTIONS

7.0 STRUCTURAL	STEE
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Fabrication and erection of structural steel shall conform to AISC 360-16, Fifteenth Edition of the AISC Steel Construction Manual (LRFD - Load and Resistance Factor Design), ANSI/AISC 360-16 Specification for Structural Steel Buildings, and ANSI/AISC 303-16 Code of Standard Practice, except Section 4.4.1.b of the Code which shall not be applicable to this project. Section 4.4.1.b of the Code shall not imply that the approval constitutes the owner's acceptance of all responsibility for the design adequacy of any detail configuration of connections developed by the fabricator as part of their preparation of these shop drawings.

2. Structural Steel: a. ASTM A-36 for Channels, Angles, and Plates (U.N.O.)

3. Anchor Rods: ASTM F1554 (S1), Grade 55, weldable.

4. Steel angles and plates, along with bolts and washers, in direct contact with exterior finish masonry and all exposed structural steel, shall be hot-dipped galvanized.

5. All long slotted and oversized holes to be covered with 5/16" plate washers that are large enough to cover the entire slot, U.N.O. These plate washers shall have standard holes.

8.0 POST INSTALLED ANCHORS

A. General Requirements:

Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to the edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

Substitution requests for alternative products must be approved in writing by the Engineer prior to use. If the Contractor requests the use of a substitution for an anchor product, the Contractor shall provide signed and sealed calculations demonstrating the substitution can achieve the performance values of the specified anchor product and the design value is equal to or greater than the product specified on the Contract Documents. The Contractor shall also submit the ICC ESR showing compliance with the relevant building code. All anchor sizes and embedment depths must be evaluated and compared to the specified anchor product for the substitution to be reviewed and approved.

3. All anchors shall assume the concrete is cracked, U.N.O.

4. Anchors shall be installed by qualified personnel in accordance with the Contract Documents.

The installation of post installed anchors shall be in accordance with the Manufacturer's Printed Installation Instructions (MPII).

6. Provide Testing & Inspections for post installed anchors and related work in compliance with ACI 355.4-11 and individual product ESRs. Refer to sheet S200a for additional information.

The Contractor shall arrange for an anchor manufacturer's representative toprovide onsite installation training for all the anchors specified. The Engineer must receive documentation confirming that all the Contractor's personnel who install anchors are trained prior to the commencement of installing anchors.

Adhesive Anchors:

1. Adhesive anchors denoted on the structural drawings have been designed in accordance with IBC 2018, ACI 318-14 Chapter 17, and shall have been tested in accordance with ACI 355.4.

2. Adhesive anchors installed into cracked and uncracked concrete shall consist of the following types as provided by Hilti, Inc.:

- a. For shallow holes, shorter working time or shorter cure time: For Anchor Diameters ¹/₂" to 1" use Hilti HIT-HY 200 Adhesive anchoring system with <u>Safe Set Technology</u> using the Hilti Hollow Drill Bit (TE-CD or TE-YD) and VC 20/40 Vacuum (VC 20-U or VC 40-U) system
- with a HAS-E Rod per ESR-3187. ii. For Rebar sizes #3 to #8 use Hilti HIT-HY 200 Adhesive anchoring system with <u>Safe Set Technology</u> using the Hilti Hollow Drill Bit (TE-CD or TE-YD) and VC 20/40 Vacuum (VC 20-U or VC 40-U) system with deformed rebar per ESR-3187

3. Anchors installed into grout filled or solid masonry, hollow masonry, or multiwythe masonry walls shall use Hilti HIT-HY 270 hybrid adhesive, U.N.O. Steel anchor element shall be Hilti HAS-E continuously threaded rod or continuously deformed steel rebar as noted.

a. For anchors in grout-filled CMU, hollow CMU and hollow brick masonry. provide HIT-HY 270 Safe Set System using the Hilti Hollow Drill Bit (TE-CD or TE-YD) and VC 150 or VC 300 series vacuum.

4. Provide a composite mesh screen tube for all anchors into unreinforced masonrv. hollow CMU, or hollow brick walls using Hilti HIT-HY 270 hybrid adhesive according to the Manufacturer's recommendations for appropriate size screen tube

5. All anchors to be installed in accordance with ICC Report and Manufacturer's recommendations. Anchor diameter, spacing and embedment depths are noted in sections and details.

6. Anchor Specifications (Typical Unless Noted Otherwise):

- HAS-E Standard Rod material meeting the requirements of ISO 898 Class 5.8, with HAS-E Standard Nut material meeting the requirements of SAE J995 Grade 5, with HAS-E Standard Washers meeting the requirements of ASTM F884, HV.
- Reinforcing steel used in adhesive anchor connections shall conform to ASTM A615, Grade 60.

7. All HAS-E Standard and HAS Super Rods (except 7/8" diameter) shall be zinc plated to ASTM B633 SC1. 7/8" diameter HAS Super Rods shall be hot-dip galvanized in accordance with ASTM A153.

8. The Contractor must install all adhesive anchors according to the following criteria in order to achieve the design parameters used to determine the adhesive anchor capacity:

- a. Concrete shall have a minimum age of 21 days at the time of anchor
- b. Concrete temperature at time of anchor installation shall be at least 50
- dearees F
- Moisture condition of concrete at the time of installation shall be considered "drv"
- All holes must be hammer drilled, no core drilling unless approved by the Engineer. If core drilling is approved, the hole must be intentionally roughened using the manufacturer's recommended roughing drill bit (Hilti Roughening tool, TE-YRT).



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- a. Spacing requirements for PAFs into
- i. Minimum spacing distance = 4" Minimum edge distance = 3"
- b. PAF embedment = 1.25"

9.0 COLD FORMED METAL FRAMING		
1. Fabricate cold-formed metal framing to comply with American Iron and Steel Institute "North American Specification for the Design of Cold-Formed Steel Structural Members" and "Standard for Cold-Formed Steel Framing – General Provisions" latest editions.		
2. All galvanized studs and/or joists, 12, 14, and 16 gauge, shall be formed from steel that corresponds to the requirements of ASTM A1003, with a minimum yield strength of 50,000 psi.		
3. All galvanized 18- and 20-gauge studs and/or joists and all galvanized track, bridging, and accessories shall be formed from steel that corresponds to the requirements of ASTM A1003, with a minimum yield strength of 33,000 psi.		
4. All galvanized studs, joists and accessories shall have a minimum G-60 coating in conformance with ASTM A1003/A653.		
 Prior to fabrication of framing, the Contractor shall submit fabrication and erection drawings to the Engineer for review. 		
 Framing components may be preassembled into panels prior to erecting. Prefabricated panels shall be square with components attached in a manner as to prevent racking. 	11.0 DESIGN LOADS Dead: Dead loads vary based on actual building construction. Refer to complete set of	
 Axially loaded studs shall be installed in a manner which will assure that ends of the studs are positioned against the inside track web prior to stud and track attachment. 	Contract Documents for determining dead loads	
8. Studs shall be plumbed, aligned, and securely attached to the flanges or webs of both upper and lower tracks, unless noted otherwise.	Roof Live: 20 psf	
9. All stud ends shall be nested tight in track, or tied to adjacent framing members as detailed, except at deflection track detail.	Snow: Roof Snow: 20 psf Ground Snow Load – P _g : 20 psf	
10. Punched holes in studs occurring at connections or track locations shall be capped with an 18" long section of track fastened to the stud with a minimum of (6) #10 self-drilling screws.	Flat-Roof Snow Load – P_f : 14 psf Exposure Factor - C _e : 1.0 Thermal Factor - C _t : 1.0 Slope Factor(s) – C _s : 1.0	
11. All headers and sills shall be continuous members constructed with un- punched studs or tracks.	Snow Load Importance Factor – I_s : 1.0 Wind: (Main Wind Force Resisting System)	
12. Field cuts shall be made with saws and shall be square and true. Torch cutting of framing members shall not be permitted.	Basic Design Wind Speed V: 118 mph Allowable Stress Design Wind Speed V _{asd} : 92 mph Risk/Category: It	
13. Framing members shall be held in place until properly fastened. Temporary bracing shall be provided until erection is complete and all attached adjacent framing is complete.	wind Exposure Category: C Internal Pressure Coefficient: +/- 0.18 Components and Cladding: To be designed in accordance with ASCE 7-16.	
14. Wall stud bridging shall be attached in a manner to prevent stud rotation. Bridging rows shall be spaced according to the following schedule:	Seismic: Seismic Design Category: B 1 Site Class: D (Assumed)	
 a. Walls less than 5'-0" in height: bridging not required. b. Walls up to 8'-0" in height: one row of bridging at mid-height. c. Walls over 8'-0" in height: bridging rows equally spaced, 4'-0" O.C. maximum. 	Seismic Importance Factor – I _e : 1.0 Risk Category: II S _S : 0.162 S ₁ : 0.045	
15. Framed wall openings shall include headers and supporting studs as shown on the plans.	S _{DS} : 0.173 S _{D1} : 0.072 Seismic Resisting System: Light-frame walls with shear panels of all other	
16. Splices in axially loaded studs are not permitted.	materials Response Modification Coefficient - R: 2 Seismic Response Coefficient – C _s : 0.0865	
17. Joists shall be located directly over bearing studs or a load distribution member to be provided at the top track.	Deflection Amplification Factor - C_d : 2 Design Base Shear: V = $C_s \times$ Effective Seismic Weight Analysis Procedure: Equivalent Lateral Force (ELE) Procedure	
18. Welded connections shall be wire brushed and coated with a zinc rich paint, and shall comply with American Welding Society "Structural Welding Code (D.1.1)" and "Specifications for Welding Sheet Steel in Structures (D1.3)" latest editions.		
19. Screws to conform to SAE J78, unless otherwise noted.		
20. All fasteners connecting cold-formed members shall be a minimum of (2) No. 10 screws (0.19-inch diameter) at each connection, unless specifically detailed. All screws shall extend a minimum of three threads beyond the last ply penetrated. Wire-tying is not permitted. Screws shall be spaced not less than 3/4 inch on center and shall be a minimum of 3/4 from the edge of cold-formed surfaces. All studs shall be secured to tracks with one screw through each flange except where noted.		
21. All fasteners connecting cold-formed members to concrete shall be HILTI X-U Powder Actuated Fasteners (PAF) of 0.157 inch diameter (unless noted otherwise) with the following criteria:		
 a. Spacing requirements for PAFs into concrete: i. Minimum spacing distance = 4" ii. Minimum edge distance = 3" 		
 b. PAF embedment = 1.25" c. Fasten PAF into concrete with low-velocity fasteners only. d. Provide multiple fasteners for any attachment unless noted otherwise. 		
10.0 SHEATHING AND WOOD DECKING		
Plywood Shall be identified with the APA grade-trademark of the American Plywood Association and shall be installed in accordance with the project specifications.		
2. Plywood face grain shall be perpendicular to supports. Joints in plywood are to be staggered. Nailing and screwing of plywood floor/roof diaphragms shall comply with APA requirements, and unless noted otherwise, fasteners are to conform to "Fastening Schedule" Table 2304, 10.1 of IBC 2018.		
4. Plywood for roof sheathing shall be minimum 3/4" and each shall conform to APA PS-1 rated sheathing, 32/16, exterior, 48" x 96" plywood, and shall be two span continuous. Provide lumber blocking at edge supports as indicated, otherwise, use panel edge clips, tongue and groove plywood.		
5. Gypsum sheathing on exterior walls to be a minimum of 5/8" thick (U.N.O). Installation of gypsum sheathing shall conform to IBC 2018 and ASTM Standard C1396. Fasteners shall not be less than 3/8" from all edges of gypsum and studs, blocking, and plates.		
11		
	TLANTIC CITY EXPRESSWAY	
FPIA7A	W TOWNSHIP, CAMDEN COUNTY, N.J. S20	

STRUCTURAL GENERAL NOTES

SCALE 12" = 1'-0"

SHEET TITLE

DATE 09/01/2021 SHEET NO.

STRUCTURAL TESTING & INSPECTION N			
1. Refer to General Notes for additional info	ormation regarding testing and inspection.		
 Continuous Inspection is defined as "the present in the area where the work is being presented and it must be impresented as the impr	full-time observation of work requiring inspection by an appr ing performed." When Continuous inspection is required, 10	oved Inspector who is 0% of the work must be	VERIFICATION AND INS Verify materials below shallow foundat the design bearing capacity
 Periodic Inspection is defined as "the par who is present in the area where the wor inspection is indicated inspection of loss 	rt-time or intermittent observation of work requiring inspection rk has been or is being performed and at the completion of the	n by an approved Inspector le work." When periodic	 Verify excavations are extended to proper material. Perform classification and testing of co 4 Verify use of proper materials, densitie
 4. Provide Continuous or Periodic Inspection 	ons for the following items.		 Figure 1 and compaction of compact 5. Prior to placement of compacted fill, in the site has been prepared properly.
5. Provide Continuous or Periodic Inspection ESR-4143 and ESR-4144 (Hilti HIT-HY 2 Contractor, must verify the initial installat Subsequent installations of the same and the absence of the inspector. Any change	ons for the following Adhesive Anchor items, as required by E 270), and ACI 355.4-11. The Inspector or Hilti Representative tions of each type and size of adhesive anchor by construction chor type and size by the same construction personnel are p ge in the anchor product being installed or the personnel perf	SR-3187 (Hilti HIT- HY 200), ve, engaged by the on personnel on site. ermitted to be performed in orming the installation	
 6. Any work which has been covered or oth 	nerwise made inaccessible prior to review by the Inspector is	subject to removal or	TESTING & INSPE
exposure, at no additional cost to the Ow	vner.		VERIFICATION AND INS 1. Inspection of all reinforcing steel, and very spacing, cover, positioning and grade
			Inspect bar laps and mechanical splice adequately tied and supported on chai
			 Inspect anchors post-installed in harder Inspect anchors post-installed in harder Adhesive anchors installed in hori orientations to resist sustained ter Mechanical anchors and adhesive
			 4. Verify use of required design mix. 5. Prior to concrete placement, fabricate perform slump and air content tests, a
			the concrete. 6. Inspect concrete placement for proper 7. Verify maintenance of specified curing 8. Inspect formwork for shape, location, a member being formed.
			^[b] Specific requirements for inspection shall be Where specific requirements are not provided, professional and shall be approved by the build
			INSPECTI ADHESIVE ANCHOF
			PER ACI 355
			 Anchor type. Anchor dimensions. Concrete type. Concrete compressive strength. Adhesive identification and expiration of the dimensions. Hole dimensions. Hole cleaning procedures. Anchor spacing. Edge distances. Concrete thickness. Anchor embedment
			12. Installation torque and adherence to th installation instructions.
			TESTING & INS
			 Anchor type. Anchor dimensions. Masonry type. Masonry compressive strength. Adhesive identification and expiration Hole dimensions. Hole cleaning procedures.
			 9. Edge distances. 10. Masonry wall thickness. 11. Anchor embedment. 12. Base material temperature. 13. Installation torque and adherence to the installation instructions.
CONSULTANT:	SUB-CONSULTANT:	DESIGNED BY:	PROFESSIONAL SEAL

		AND			
	YOU	R GOAL	S. OU		ION.
	1700 M	ARKET ST	REET, S	UITE 3110)

L700 MARKET STREET, SUITE 3110 PHILADELPHIA, PA 19103 TEL 215-282-7850 FAX 215-627-3459 www.tandmassociates.com



610-989-3800 - www.cvmprofessional.com

DESIGNED BY: DRAWN BY: AJC CHECKED BY: EMJ APPROVED BY:

LRS



NG & INSPECTION OF SOILS

INSPECTION TASK	CONTINUOUS	PERIODIC
oundations are adequate to achieve	-	Х
to proper depth and have reached	-	х
g of compacted fill materials.	-	Х
ensities and lift thicknesses during mpacted fill.	х	-
fill, inspect subgrade and verify that erly.	-	Х

ECTION OF CONCRETE CONSTRUCTION

INSPECTION TASK	CONTINUOUS	PERIODIC
and verify placement. Inspect size, rade of reinforcing steel. Verify that bil or other deleterious materials. splices. Verify that bars are n chairs or bolsters.	-	х
	-	Х
hardened concrete members: ^[b] n horizontally or upwardly inclined ed tension loads. nesive anchors not defined in section	X -	- X
	-	Х
icate specimens for strength tests, sts, and determine the temperature of	х	-
roper application techniques.	Х	-
curing temperature and techniques.	-	Х
tion, and dimensions of the concrete	-	Х

included in the research report for the anchor issued by an approved source. inspection requirements shall be specified by the registered design ding official prior to the commencement of the work.

ECTION & QUALITY ASSURA HORS INSTALLED IN HARDE I 355.4-11, ESR-3187 (Hilti HI	NCE OF ENED CONCRETE T-HY 200),	
INSPECTION TASK	CONTINUOUS	PERIODIC
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		X
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		Х
ation date.		Х
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D INSPECTION TASK	CONTINUOUS	PERIODIC
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l.		Х
piration date.		Х
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		X
ce to the manufacturer's printed		Х

REVISION NO.	REVISION DATE	DESCRIPTIONS
1	09/09/2021	ADDENDUM #1



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ATLANTIC CITY EXPRESSWAY 2021 WEST MAINTENANCE ADDITION PROJECT WINSLOW TOWNSHIP, CAMDEN COUNTY, N.J.



STRUCTURAL TESTING & INSPECTIONS

SCALE 12" = 1'-0"

PROJECT TITLE

SHEET TITLE

DATE

09/01/2021







C

NOTE

PROVIDE TEMPORARY SHORING FOR EXISTING MASONRY ABOVE AS REQUIRED

REVISION NO.	REVISION DATE	DESCRIPTIONS
1	09/09/2021	ADDENDUM #1

SOUTH JERSEY TRANSPORTATION AUTHORITY FARLEY SERVICE PLAZA P.O. BOX 351 HAMMONTON, NJ 08037 (609) 965 - 6060

5X5/16 ANGLE PRÓVIDE 6"
Ø THRU BOLT @ 16" O.C.
BOTTOM PLATE CONT.
GE OF OPENING.

PROJECT TITL	e ATLANTI	DRAWING NO.		
	2021 WEST MAIN WINSLOW TOW	2021 WEST MAINTENANCE ADDITION PROJECT WINSLOW TOWNSHIP, CAMDEN COUNTY, N.J.		
SHEET TITLE			0000	
FOUNDATION AND MASONRY DETAILS			SHEET NO.	
SCALE	As indicated	DATE 09/01/2021		

