The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions: <u>MailTo:ContractAdministration@TampaGov.net</u>

#### Please Let Us Know If You Plan To Bid

City of Tampa Contract Administration Department 306 E. Jackson St. #280A4N Tampa, FL 33602 (813)274-8456 TECHNICAL SPECIFICATIONS AND DRAWINGS

FOR

# CITY OF TAMPA

# SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE FIXTURE REPAIR

TAMPA, FLORIDA

WALTER P MOORE PROJECT NUMBER S05.17007.00 October 17, 2017

#### TECHNICAL SPECIFICATIONS AND DRAWINGS

#### FOR

#### CITY OF TAMPA SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE FIXTURE REPAIR TAMPA, FLORIDA

#### WALTER P. MOORE AND ASSOCIATES, INC.

201 East Kennedy Boulevard, Suite 300 Tampa, Florida 33602 813-221-2424

S05.17007.00

#### SECTION 000105 - TITLE/CERTIFICATION PAGE

PROJECT:	City of Tampa South Regional Garage Bumper Wall and Decorative Fixture Repair
PROJECT NUMBER:	Walter P Moore Project No. S05.17007.00
ENGINEER:	<ul> <li>Walter P. Moore and Associates, Inc.</li> <li>201 East Kennedy Boulevard, Suite 300</li> <li>Tampa, Florida 33602</li> <li>Phone: 813-221-2424</li> <li>Fax: 813-221-2289</li> <li>Principal-in-Charge</li> <li>Richard J.A. Temple, P.E.</li> <li>Walter P. Moore and Associates, Inc.</li> <li>Phone: 813-221-2424</li> <li>Project Manager</li> <li>E. Webb Wright, P.E.</li> <li>Walter P. Moore and Associates, Inc.</li> <li>Phone: 407-924-7497</li> </ul>

#### END OF SECTION 000105

SECTION 00 01 07 – SEALS PAGE

I HEREBY CERTIFY THAT THESE PLANS AND TECHNICAL SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

E. Well Writ

E. Webb Wright, P.E. (FL PE No. 57639) FL Certificate of Authorization No. 3818

END OF SECTION 00 01 07

#### SECTION 00 01 10 – TABLE OF CONTENTS

#### **SPECIFICATIONS**

#### DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

Section 00 01 05 – Title/Certification Page

Section 00 01 07 – Seals Page

Section 00 01 10 – Table of Contents

#### DIVISION 03 – CONCRETE

Section 03 01 01 – Surface Preparation for Patching

#### DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Section 07 92 00 - Joint Sealants

#### DRAWINGS

#### END OF SECTION 00 01 10

# SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE FIXTURE REPAIR TAMPA, FL

### WALTER P MOORE

WALTER P. MOORE AND ASSOCIATES, INC. 201 EAST KENNEDY BOULEVARD, SUITE 300 TAMPA, FLORIDA 33602

#### PHONE: 813.221.2424 EAX: 813.221.228

#### Project

SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE **FIXTURE REPAIR** TAMPA, FL

Client :

### CITY OF TAMPA

No.	Date	Description			
1	10/17/17	ISSUED FOR BID			
Project Number : Drawn By : S05.17007.00 AZ Approved By : Checked By : WW WW/EVC					
TO TH AND S		ENGINEER'S KNOWLEDGE, THE PLANS COMPLY WITH THE APPLICABLE			
Seal and Signature :					
	ENGINEER OF RECORD: E. WEBB WRIGHT FL PE NO.: 57639				

CERTIFICATION OF AUTHORIZATION NO.: 3818

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Sheet Title:



Sheet Title:



# PROJECT SITE



	SHEET LIST
SHEET NUMBER	SHEET NAME
COVER	COVER SHEET AND SHEET INDEX
S0.0	GENERAL NOTES
S0.1	GENERAL NOTES
S1.0	PLAN - LEVEL 5
S1.1	PARTIAL PLAN
S2.0	DETAILS
S2.1	DETAILS
S2.2	DETAILS

# GENERAL STRUCTURAL NOTES

						- 0 -		0.0	
PART I - DESIGN CRITERIA	PART III - SELEC	TIVE DEM	OLITIO	N (CONT)					PART V - POST-TENSION
A. STRUCTURAL REPAIR	F. EXECUTION OF	SELECTIV	'E DEM	OLITION					2. Concrete Removal: Per tendon damage and at
The purpose of the Contract Documents is to restore the concrete bumper wall to its pre-damaged structural condition and provide supplemental anchorage at decorative fixtures.	1. General: Demo required to con and as follows: a. Use cutting	nplete the	Ñork w	thin limitat	tions of g	governing	regulat		anchors are to be instal mild reinforcement duri removed by using light by electric hammers wi
PART II - NON -DESTRUCTIVE EVALUATION	adjoining co	nstruction.			•				when contacting ground caution when removing
A. ITEMS EMBEDDED IN CONCRETE STRUCTURES	materials sc slabs, or fra	as not to						ls,	or blowout of the anchorshaped region in front of
<ol> <li>Items embedded in concrete structures shall not be damaged during repair work. Embedded items may include mild reinforcement, prestressing reinforcement, dowels, embedded connections, electrical conduits, plumbing, etc.</li> </ol>	c. Dispose of c 2. Existing Items beginning work	demolished to Remain	Contra	ctor to coc	ordinate	with Owr			<ol> <li>Safety: The Contractor workers and public acc being locked-off and de</li> </ol>
<ol> <li>Items embedded in concrete shall be located by non-destructive evaluation prior to performing any work. Contractor shall mark on the structure the location of embedded items and provide a report to the Engineer.</li> </ol>	during the dem removed to a s	olition proc suitable and	cess. W d/or pro	hen permi tected loca	tted by (				public access to those a locked-off and de-tension any strand. The Contra operations are performed
<ol> <li>Engineer may require a particular non-destructive evaluation method for the location of embedded items.</li> </ol>	1. General: Prom demolished ma	ptly dispos	e of dei	nolished n		. Do not a	allow		G. STRESSING
PART III - SELECTIVE DEMOLITION	2. Disposal: Tran		olished	materials c	off Owne	er's prope	rty and	legally	1 Methods: Perform pos are in conformance with g Stressing of repaired tend
A. DEFINITIONS	dispose of ther								and new live PT anchor a generally accepted metho
<ol> <li>Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.</li> </ol>	A. CLASSES OF CC								2. Concrete Repair Mater
<ol><li>Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and</li></ol>	1. Concrete shall	conform to	the fol	owing req	uiremen	ts			operations until tests or re material in the members h adequate for the requirem
salvaged, or removed and reinstalled.	Classes of Concret	e Matrix							<ul><li><b>psi</b> unless otherwise spect</li><li>3. Equipment: Stress all</li></ul>
B. MATERIAL OWNERSHIP	Location	Comp	Туре	Exposure		Air	Max. Agg.	Notes	with accurate reading h individually calibrated with
<ol> <li>Except for items or materials indicated to be reused or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site. The materials removed shall be disposed in a proper and legal manner per</li> </ol>	All	Strength PSI 5,000	NWC	Class	W/C Ratio	Content	Size _(in.)		prestressing steel to be co curve shall accompany ea the ram and gauge set if i
federal/state or local ordinances.									elongation and the gauge
C. QUALITY ASSURANCE	B. HORIZONTAL CO								4. Forces: Anchor the provide will result in the ultimate
<ol> <li>Regulatory Requirements: Comply with governing Owner, Local, State, Federal, and EPA notifications and regulations before beginning selective deconstruction / demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.</li> </ol>	1. There shall be unless shown o or additional jo	on the drav ints in writi	vings. T						shown on the original draw those indicated on these of shall report to the Enginee assumed in the elongation
D. PROJECT CONDITIONS	C. REINFORCING S		bo AS	ΓΜ Δ 615 (	Crada 6		notod o	thorwise	stressing operation may b
1. Conduct selective demolition so Owner's operations will not be disrupted.	1. All Reinforcing on the drawing				Grade o	0 unless	noted o	linerwise	5. Elongations: Keep rec 10% between the gauge r
Provide not less than 72-hour notice to Owner of activities that will affect Owner's operations.	2. Headed Stud A manufactured i yield strength c	in conform	ance wi						between the measured an be considered satisfactory to the Engineer prior to co
<ol> <li>Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, sidewalks,</li> </ol>	D. REINFORCING S			F					be permitted until it is den reasonably free and unbo
corridors, or other occupied or used facilities without written permission from authorities having jurisdiction.	1. Reinforcing ste on the drawing	el coverag	e shoul	d conform					is unbonded will be consid is observed at one end of steel at the other end. Th
<ol><li>Owner assumes no responsibility for condition of areas to be selectively demolished.</li></ol>	existing reinfor details. Cover	cement ma	ay have	a smaller	cover th	an specif	fied in d	rawing	at any time. Do not cut of reviewed and approved in
<ul> <li>a. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.</li> <li>b. Before selective demolition, Owner will remove items within space as</li> </ul>	conform to the drawings.								6. Safety: Precautions sh directly behind, above or i
needed.	PART V - POST-T	ENSIONE		CRETE RE	PAIRS				barricade all areas of the stressing any strand. The
<ol> <li>If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Engineer and Owner. These materials aball he removed as disposed as approved by apvertiag agency.</li> </ol>	A. POST-TENSIONI	NG SYSTI	EM TYF	Έ					operations are performed H. GROUTING ANCHORAG
<ul><li>shall be removed as disposed as approved by governing agency.</li><li>5. Storage or sale of removed items or materials on-site will not be</li></ul>	1. Post-tensioning on the drawing		ment sh	all be unbo	onded u	nless sho	own othe	erwise	<ol> <li>Cut the tendon tails wit approved. At slab ends</li> </ol>
permitted. 6. Utility Service: Maintain existing utilities indicated to remain in service and	B. POST-TENSIONI								the face of the finished the face of the anchora
protect them against damage during selective demolition operations. Maintain fire-protection facilities in service during selective demolition operations.	1. Strand: ASTM minimum ultim C. TENDON FORCE	ate strengt							off the excess strand a the strand. Cutting may abrasive wheel, or hyd heated.
7. Protect adjacent paving (asphalt or cement roadways, sewers, etc.) as	1. Repaired tendo	ons shall b	e stress	ed to a ma	aximum	jacking fo	orce of 3	33 kips.	2. Cover the end of tendo
needed. 8. All areas outside of demolition scope to be protected from damage by	D. TENDON PROFIL	_ES, PLAC	EMEN	TS, AND A	DJUST	MENTS			other approved method been cut to ensure cor
Contractor. Restore areas subject to incidental damage to their pre- demolition condition.	1. Refer to origina location of cen								<ol> <li>Coat the anchorage real</li> <li>flush with a non-shrink</li> </ol>
E. PREPARATION	E. DRILLING INTO F	POST-TEN	SIONE	D ELEMEI	NTS				with prestressing steel manufacturer's recomr
<ol> <li>Contractor to maintain access to exits and exit stairs at all times. Fire alarms and smoke detection system shall remain operational at all times. Protect smoke detectors as required and in conformance to local codes</li> </ol>	1. Post-tensioning tensioned cond element, the lo	rete eleme	ent. Bet	ore drilling	j into a p	ost-tensi	oned co	oncrete	anchorage recess surfa shrink grout. PART VI - SUBMITTALS
and local authorities	reinforcement	shall be de	termine	d using no	on-destru	uctive tec	hniques		A. SUBMITTAL LIST AND S
<ol><li>Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.</li></ol>	F. PREPARATION F							nsioned	1. The Contractor shall pr
a.Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of adjacent facilities.	nembers in the determined by	e areas to	be repa	ired as ind	icated ir	the drav	vings or	as	items to be sent to the shall be updated and re
<ol> <li>Contractor to provide all necessary traffic control and pedestrian control measures as required.</li> </ol>	as Ground Per and mark them last throughout	netrating Ra	adar (G se pern	PR) scan s nanent ma	survey to	o locate t	he tend	ons	The submittal list shall a. Product Data, Certif
			•	<i>.</i>					B. SUBMITTALS TO BE PR
									1. Product Submittals: In specifications, the follo a. Concrete Materials.

#### NED CONCRETE REPAIRS(CONT)

rform concrete openings at identified areas with areas where new PT strand, couplers, and lled. Contractor shall not damage tendons and ing concrete removal. Concrete shall be weight pneumatic or electric impact breakers, or th auto-shut-off capability of power interruption ded metal. Contractor shall exercise extreme concrete near PT anchorages to prevent failure or. Concrete bearing against an anchor (Vof an anchor) shall not be removed.

shall take all necessary precautions to prevent cess to areas where post-tensioned members are e-tensioned. Contractor shall request Owner to close areas located along the full length of tendons being ioned at the floors above and below before locking-off actor shall ensure that locking-off and de-tensioning ed safely.

st-tensioning by methods and related equipment that generally accepted systems of post-tensioning. dons is typically performed with a tendon coupler as shown in Repair Documents. Variations of such ods and equipment will be permitted with led equal results can be obtained.

rial Strength: Do not begin the post-tensioning eadings have indicated that the concrete has attained a compressive strength that is nents of the anchorages but not less than 3750 cified on the Contract Drawings

tendons by means of hydraulic rams, equipped hydraulic pressure gauges that have been h a particular ram to permit the stress in the computed at any time. A certified calibration ach ram and gauge set. Immediately recalibrate nconsistencies between the measured reading occur.

estressing steel at an initial or anchor force that retention of the working or effective force wings (if available). Jacking forces shall be General Notes. The post-tensioning installer er deviations greater than 10% from the values n calculations. Required adjustments to the be recommended by the Engineer.

cords of all tendon elongations. Agreement within reading and the measured elongation and nd the calculated elongation after stressing will ry. Deviations greater than 10% will be reported ompleting stressing operation. No tensioning will monstrated that the prestressing steel is nded in the enclosure. Evidence that the steel dered satisfactory if inward movement of steel the tendon when a nominal pull is applied to the ne Engineer may order a force/elongation check off tendons until elongation records have been writing by the Engineer.

hall be taken to prevent workers from standing in front of the stressing rams. Contractor shall structure in the vicinity of tendons before Contractor shall ensure that stressing safely.

**SE RECESSES** 

thin 24 hours after the stressing records have been s, cut off the excess strand at least 1/2 inch inside concrete surface, and not more than 3/4 inch from age. For stressing ends located at interior areas, cut as required to provide adequate concrete cover to y be done by means of oxyacetylene cutting, fraulic shears. Do not allow the wedges to become

on with approved coating-filled encapsulation cap, or d no more than 24 hours after the tendon tails have rrosion protection of the exposed tendon.

cesses with an approved bonding agent and fill non-stain, chloride free grout compatible for use or approved equal in accordance with mendations. Do not allow contamination of the ace that reduces the bonding capacity of the non-

CHEDULE

repare a detailed list and schedule of all submittal Engineer prior to the start of construction. This list evised and kept current as the job progresses. be organized as shown below: ficates, Reports, and Other Literature

ROVIDED TO ENGINEER

addition to the submittals required by the project wing submittals shall be provided:

b. Post-tensioning tendons and hardware c. Joint Sealants (Horizontal, Vertical, and Cove).

#### PART VI - SUBMITTALS (CONT)

2. Submittal Requirements:

- a. All shop drawings must be reviewed and electronically stamped by the Contractor prior to submittal.
- b. Contractor shall provide the submittal in electronic portable document format (PDF) per the Specifications.
- c. The omission from the shop drawings of any materials required by the Contract Documents to be furnished shall not relieve the Contractor of the responsibility of furnishing and installing such materials, regardless of whether the shop drawings have been reviewed and approved.

C. REPRODUCTION

1. The use of electronic files or reproductions of these contract documents by any Contractor, subcontractor, erector, fabricator, or material supplier in lieu of preparation of shop drawings signifies their acceptance of all information shown hereon as correct, and obligates themselves to any job expense, real or implied, arising due to any errors that may occur hereon

PART VII - MISCELLANEOUS

#### A. CONTRACT DOCUMENTS

- 1. It is the responsibility of the Contractor to obtain all Contract Documents and latest addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, fabrication of any structural members, and erection in the field.
- 2. The contract structural drawings and specifications represent the repaired structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequenc
- 3. Refer to drawings of existing facility (other than Repair drawings) for complete information including: Expansion joint systems, previous repairs performed in the facility, presence of post-tensioning, location and size of structural members (beams, columns, walls, etc.), slab thickness, and other information relevant to the project.
- 4. Where member locations are not specifically dimensioned, members are either located on columns lines or are equally spaced between located members.
- 5. If certain features are not fully shown or specified on the drawings or in the specifications, their construction shall be of the same character as shown or specified in similar conditions.

#### B. CONFLICTS IN STRUCTURAL REQUIREMENTS

- 1. Where conflict exists among the various parts of the repair contract documents, repair drawings, general notes, and specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- C. EXISTING CONDITIONS
- 1. The Contractor shall verify all dimensions and conditions of the existing building at the job site and report any discrepancies from assumed conditions shown on the drawings to Engineer prior to the fabrication and erection of any members. Existing dimensions shown on the drawings are for general reference only and should not be used for final construction or detailing.
- 2. Existing construction shown on the drawings was obtained from existing construction documents and limited site observation. These drawings of existing construction are available for contractor use and shall be referenced for familiarization with existing conditions. However, the available drawings of existing construction are not necessarily complete. The Contractor is responsible for being knowledgeable on information presented in available drawings and shall field verify all pertinent information.
- 3. Demolition, cutting, drilling, etc. of existing work shall be performed with great care so as not to jeopardize the structural integrity of the existing building. If any architectural, structural, or MEP members not designated for removal interfere with the new work, the Owner shall be notified immediately and approval obtained prior to removal of those members.
- 4. The Contractor shall safely shore existing construction wherever existing supports are removed to allow the installation of new work. All shoring methods and sequencing of demolition shall be the responsibility of the Contractor and his engineer.
- 5. The Contractor shall perform a survey to locate all existing utilities prior to the start of construction and take care to protect utilities that are to remain in service. Existing civil, mechanical, electrical, plumbing, and emergency protection system servicing any areas outside the work area are to be maintained in operable condition throughout the duration of repairs. Contractor shall make necessary temporary connections to maintain existing utilities in service during the work. Temporary, localized interruption of these systems shall require approval by the Owner.
- 6. The Contractor shall provide dust, odor, and noise protection, and safety measures as necessary for the duration of repairs. Provide all measures necessary to protect the existing structure, building interior, vehicles, facility patrons, and other persons during construction. Such measures shall include, but not limited to temporary bracing, shoring, formwork, protective enclosures, and traffic controls.

## WALTER P MOORE

WALTER P. MOORE AND ASSOCIATES, INC. 201 EAST KENNEDY BOULEVARD. SUITE 300 TAMPA, FLORIDA 33602

PHONE: 813.221.2424 FAX: 813.221.2289

#### Proiect

SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE **FIXTURE REPAIR** TAMPA, FL

Client :

#### CITY OF TAMPA

No.	Date	Description
1	10/17/17	ISSUED FOR BID
Project Number : S05.17007.00 Approved By : WW		: Drawn By : AZ Checked By : WW/EVC
1		

Certification Statement :

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE INIMUM BUILDING CODES

Seal and Signature :

ENGINEER OF RECORD: E. WEBB WRIGHT CERTIFICATION OF AUTHORIZATION NO.: 3818

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#### PART VII - MISCELLANEOUS(CONT)

- The Contractor shall perform a pre-construction condition survey to document site conditions prior to start of work. Submit survey to Owner and the Engineer. Document location and condition of any construction designated for removal and re-installation.
- 8. The Contractor shall repair all damage caused during construction with similar materials and workmanship to restore conditions to levels acceptable to the Owner.
- D. RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION
- Repairs of structural elements of the project have been designed by the Engineer to restore the damaged members to their original condition. The ability of the structural members to resist the design forces derives from the complete installation of the repairs. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the repair work is completely installed and all designated concrete elements have reached a minimum of 75% of their design strength.

#### E. CONTRACTOR SUBSTITUTIONS

- 1. Any materials or products submitted for approval that are different from the material or products specified in the structural contract documents will be considered for approval only if the following criteria are satisfied:
- a. A cost savings to the Owner is documented and submitted with the request.
- b. The material or product has been approved by the International Code Council (ICC) and the ICC report is submitted with the request.
  1) The ICC ESR that is submitted must reference the building code under which the project is permitted.
  2) ICC reports that have been discontinued at the time of product
- installation will not be accepted.
- 2. Submittals not satisfying the above criteria will not be considered.
- F. THE ENGINEER'S ROLE DURING CONSTRUCTION
- 1. The Engineer shall not have control nor charge of, and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions and programs in connection with the work, for the acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.
- 2. Periodic site observation by field representatives of Walter P. Moore and Associates is solely for the purpose of becoming generally familiar with the progress and quality of the Work completed and determining, in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the repair contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor.

#### G. MAINTENANCE STATEMENT

 Parking structures require periodic maintenance to extend lifespan and to ensure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include such items such as but not limited to painting of structural steel, protective coating for concrete, sealants, caulked joints, expansion joints, control joints, repair of spalls and cracks in concrete, and pressure washing of structural elements exposed to a salt environment or other harsh chemicals.

PART VIII - DRAWING INTERPRETATION

A. DRAWING VIEWS LABELED AS "TYPICAL"

- Partial plans, elevations, sections, details, or schedules labeled with "Typical" at the beginning of their title shall apply to all situations occurring on the project that are the same or similar to those specifically shown. The applicability of the content of these views to locations on the plan can be determined from the title of the views. Such views shall apply whether or not they are keyed in at each location. Decisions regarding applicability of these "Typical" views shall be determined by the Engineer.
- B. STRUCTURAL ABBREVIATIONS, SYMBOLS, AND NOTATIONS

C.I.P.	Cast-in-place
COL	Column
CSP	Concrete Surface Profile
EXIST	Existing
FV	Field Verify
MIN	Minimum
PT	Post-Tensioned
TYP	Typical

WALTER P. MOORE AND ASSOCIATES, INC. 201 EAST KENNEDY BOULEVARD, SUITE 300 TAMPA, FLORIDA 33602

PHONE: 813.221.2424 FAX: 813.221.2289

Project :

SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE FIXTURE REPAIR TAMPA, FL

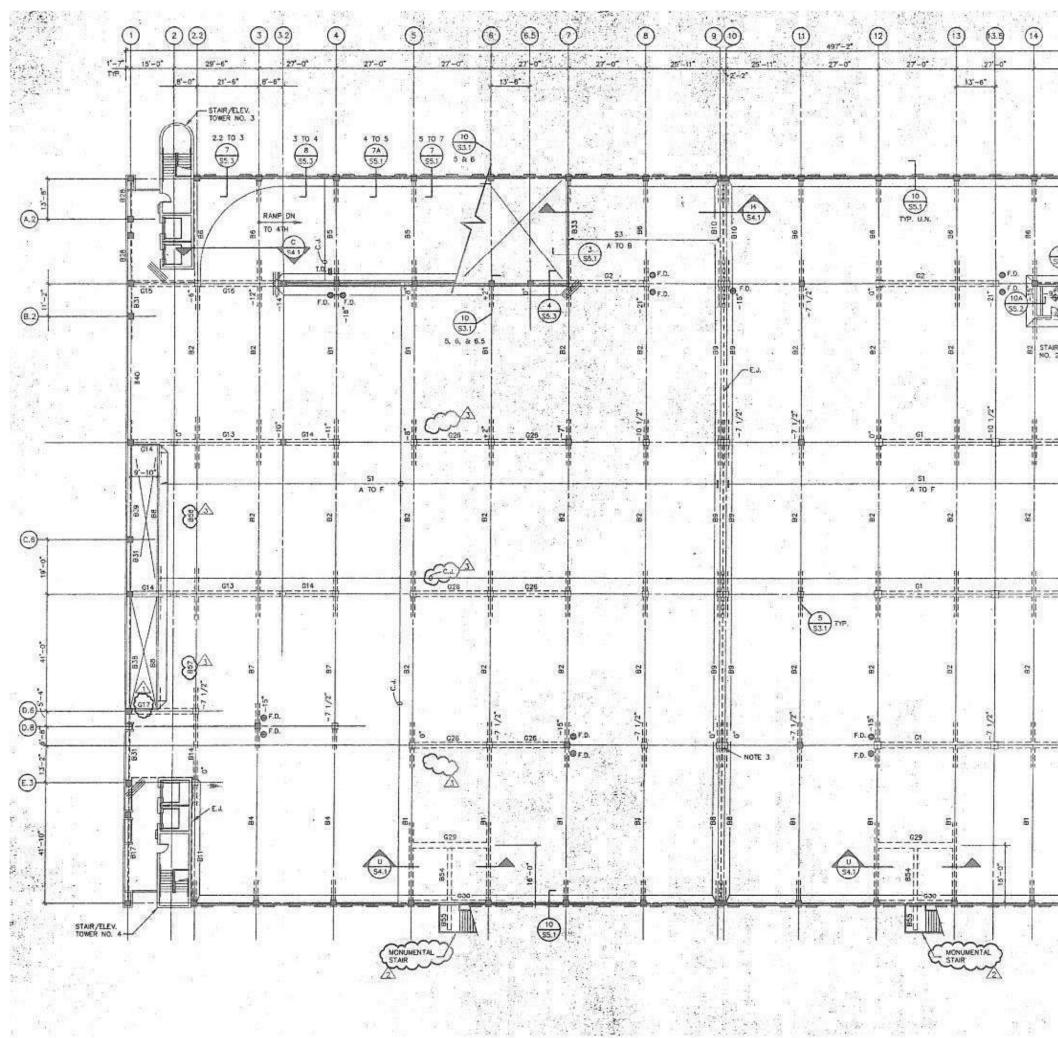
Client :

### CITY OF TAMPA

No.	Date	Description			
1	10/17/17	ISSUED FOR BID			
	ject Number 5.17007.00	r : Drawn By : AZ			
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Sea	al and Signat	ure :			
	ENGINEE	R OF RECORD: E. WEBB WRIGHT			
	FL PE NO.: 57639 CERTIFICATION OF AUTHORIZATION NO.: 3818				
Copyri	ght (c) 2016 by V	Valter P. Moore and Associates, Inc.			
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Sheet Title:

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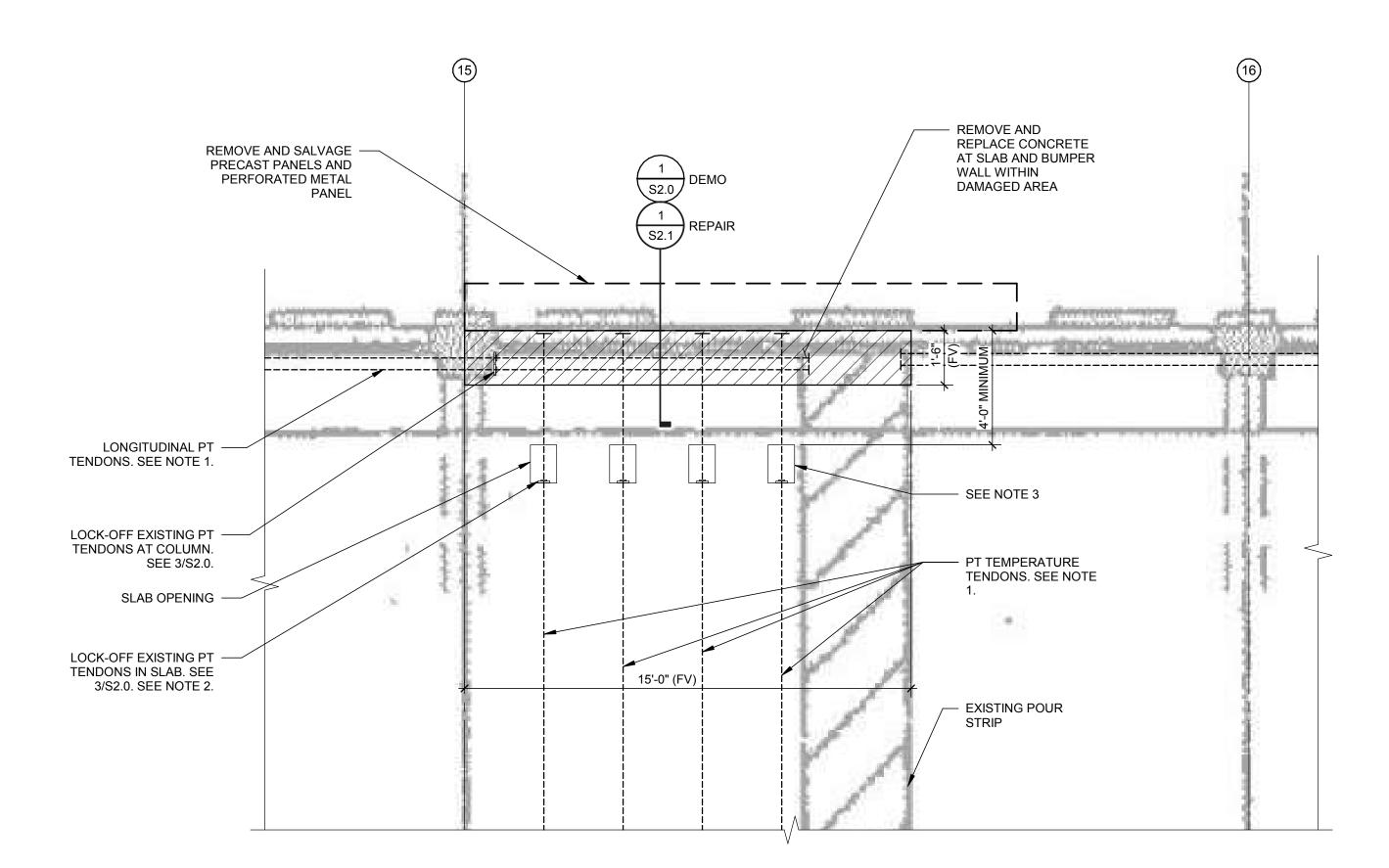
PLAN - LEVEL 5

• • • • • • • • • • • • •	27'-0" 13'-8"	27-0° 27 (1) (2) (S1.1) (S2.1)		17-6*
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WAL	WALTER P MOORE					
20	WALTER P. MOORE AND ASSOCIATES, INC. 201 EAST KENNEDY BOULEVARD, SUITE 300 TAMPA, FLORIDA 33602 PHONE: 813.221.2424 FAX: 813.221.2289					
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Client :						
(	CITY C	F TAMPA				
No. Da	ate Des	cription				
1 10/1	7/17 ISS	UED FOR BID				
Project N S05.1700 Approved WW	07.00	Drawn By : AZ Checked By : WW/EVC				
TO THE BEST AND SPECIFIC MINIMUM BUI		t : IEER'S KNOWLEDGE, THE PLANS PLY WITH THE APPLICABLE				
ENGINEER OF RECORD: E. WEBB WRIGHT FL PE NO.: 57639 CERTIFICATION OF AUTHORIZATION NO.: 3818 Copyright (c) 2016 by Walter P. Moore and Associates, Inc.						
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Sheet Title:

S1.0



WORK SEQUENCE:

- 1. LOCATE PT TENDONS AND SEND REPORT TO ENGINEER.
- REMOVE PRECAST FACADE PANELS AND PERFORATED METAL PANELS. LOCK-OFF EXISTING TENDONS AT THE LOCATIONS SHOWN. CUT TENDONS BEHIND 3.
- ANCHOR LOCK-OFF LEAVING ENOUGH TENDON LENGTH TO INSTALL A NEW COUPLER. REMOVE CONCRETE AT BUMPER WALL AND SLAB EDGE. ENGINEER TO ASSESS 4.
- EXISTING REINFORCEMENT.
- INSTALL COUPLER AND NEW PT TENDONS AND ANCHORS. 5.
- POUR NEW CONCRETE AT SLAB EDGE, EXCLUDING POUR STRIP. 6. RE-STRESS TEMPERATURE TENDONS AFTER CONCRETE HAS REACHED THE 7.
- STRENGTH SPECIFIED IN GENERAL NOTES.
- RE-STRESS LONGITUDINAL TENDONS. 8. POUR NEW CONCRETE AT POUR STRIP. 9.
- 10. POUR NEW CONCRETE AT BUMPER WALL.
- 11. REINSTALL PRECAST FACADE PANELS AND PERFORATED METAL PANELS.
- 12. SEAL CONSTRUCTION JOINTS IN SLAB AND COVE JOINTS.

1.

NOTES:

- 2.
- 3.

**PARTIAL PLAN - DEMOLITION** 

NO SCALE

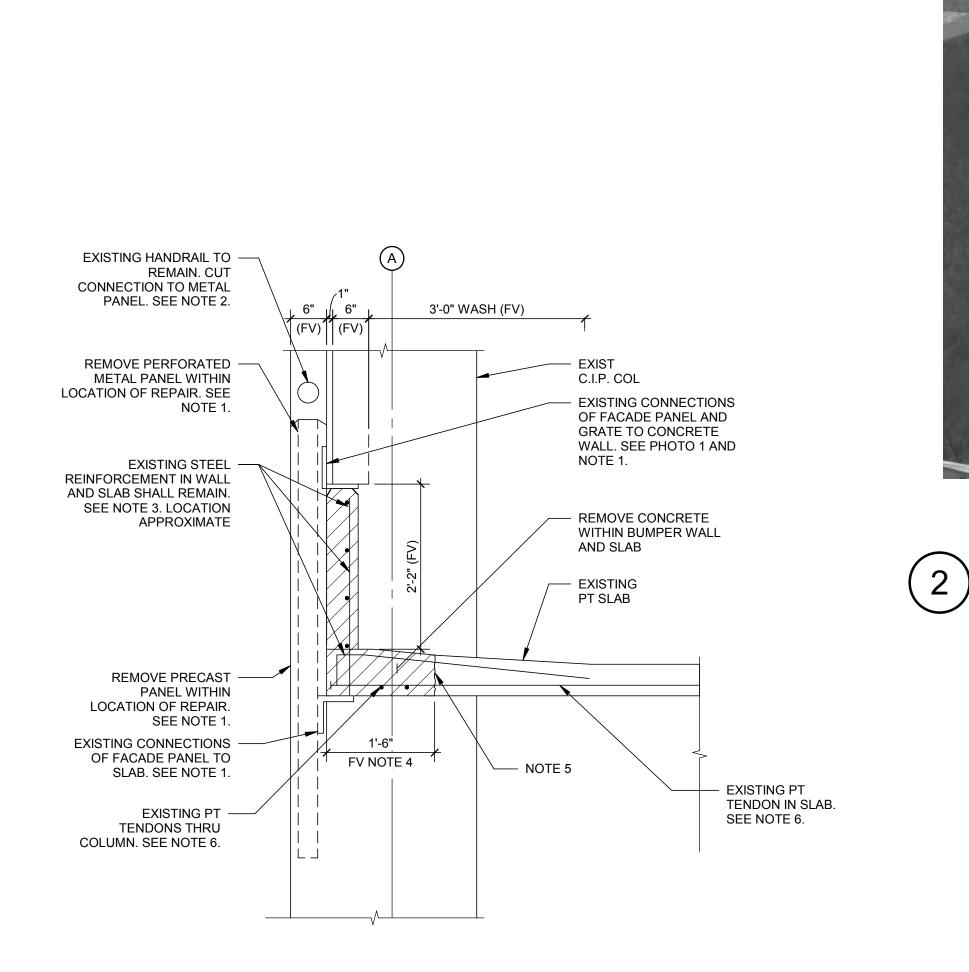
TENDONS SHALL BE LOCATED USING NON-DESTRUCTIVE METHODS PRIOR TO DEMOLITION OF SLAB. LOCATION AND NUMBER OF TENDONS SHOWN IS APPROXIMATE. A REPORT OF THE LOCATION OF TENDONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DEMOLTION OF CONCRETE SLAB.

ANCHOR LOCK-OFF LOCATIONS ARE APPROXIMATE AND SHALL BE LOCATED A SAFE DISTANCE AWAY FROM EXISTING TENDONS PERPENDICULAR TO TENDON BEING LOCKED-OFF.

LOCATE THIS OPENING AWAY FROM EXISTING PT ANCHORS FOR MAIN LONGITUDINAL TENDONS. DO NOT REMOVE CONCRETE BEHIND EXISTING ANCHORS

Client ::  CITY OF TAMPA           No.       Date       Description         1       10/17/17       ISSUED FOR BID         2       ISSUET FOR TAWNER       ISSUET FOR TAWNER FOR FOR STATES         Soft THE ENSINEER OF RECORD:       ISSUEBS WRIGHT         INMUMUM BULDING CODES       ISSUES COMPLY WITH THE APPLICABLE         INSUESCITICATION OF AUTHORIZATION NO: 2013       ISSUESCITIFICATION OF AUTHORIZATION NO: 2013         Corright (c) 2016 by Water P. Moore and Associates, Inc.       INSUESCITIFICATION OF AUTHORIZATION NO: 2014         Thore and Associates, Inc. <td< th=""><th>Pro</th><th>201 EAST KI TAN PHONE: 813.2 ject : SOUT GARA M DE FIXT</th><th>OORE AND ASSOCIATES, INC. ENNEDY BOULEVARD, SUITE 300 APA, FLORIDA 33602 221.2424 FAX: 813.221.2289 TH REGIONAL AGE BUMPER AGE BUMPER VALL AND CORATIVE URE REPAIR AMPA, FL</th></td<>	Pro	201 EAST KI TAN PHONE: 813.2 ject : SOUT GARA M DE FIXT	OORE AND ASSOCIATES, INC. ENNEDY BOULEVARD, SUITE 300 APA, FLORIDA 33602 221.2424 FAX: 813.221.2289 TH REGIONAL AGE BUMPER AGE BUMPER VALL AND CORATIVE URE REPAIR AMPA, FL
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WALTER P MOORE



NOTES:

- 1. EXISTING CONNECTIONS OF PRECAST PANEL AND PERFORATED METAL PANEL TO CONCRETE BUMPER WALL SHALL BE MEASURED AND DOCUMENTED PRIOR TO DEMOLITION AND REPLACED IN-KIND DURING THE REPAIR. MEASURE ALL DIMENSIONS OF CONNECTION ELEMENTS INCLUDING SIZE AND LENGTH OF WELDS. DISCONNECT FACADE PANELS BY GRINDING THE WELDS AT THE CONNECTIONS. EMBED PLATES IN CONCRETE WALL ARE ALLOWED TO BE REMOVED AND SALVAGED.
- 2. EXISTING CONNECTION OF HANDRAIL TO PERFORATED METAL PANEL SHALL BE DOCUMENTED PRIOR TO DEMOLITION AND REPLACED IN-KIND DURING THE REPAIR.
- 3. EXISTING REINFORCEMENT SHALL BE OBSERVED BY ENGINEER PRIOR TO REPAIR. SUPPLEMENTAL REINFORCEMENT MAY BE REQUIRED. CONTRACTOR SHALL PROVIDE ENGINEER MINIMUM 3 DAYS ADVANCE NOTICE FOR VISIT TO OBSERVE EXISTING REINFORCEMENT FOLLOWING DEMOLITION.
- 4. REMOVE DAMAGED CONCRETE AT EDGE OF SLAB AND ADDITIONAL 6 INCHES WITHIN SOUND CONCRETE.
- 5. INITIAL GRINDING OR SAWCUTTING OF EXISTING CONCRETE SHALL BE PERPENDICULAR TO SURFACE. ROUGHEN EXISTING CONCRETE SURFACE TO CSP-9.
- PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAWCUTTING.
- 7. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" SPECIFICATIONS FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. REPAIR DAMAGED TENDON SHEATHING IN ACCORDANCE WITH DETAIL 3/S2.1.

#### <u>NOTES:</u> 1. EXI ATT 2. AC CO 3. PT RES

3

NO SCALE

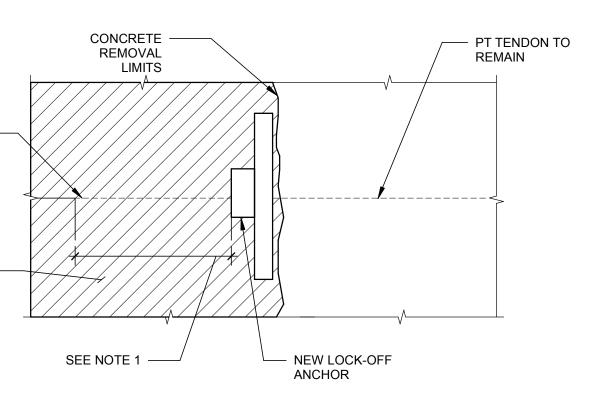
CUT AND REMOVE TENDON AND EXISTING ANCHOR AT FAR END.

CONCRETE SLAB TO BE REMOVED

# DEMOLITION OF WALL AND SLAB



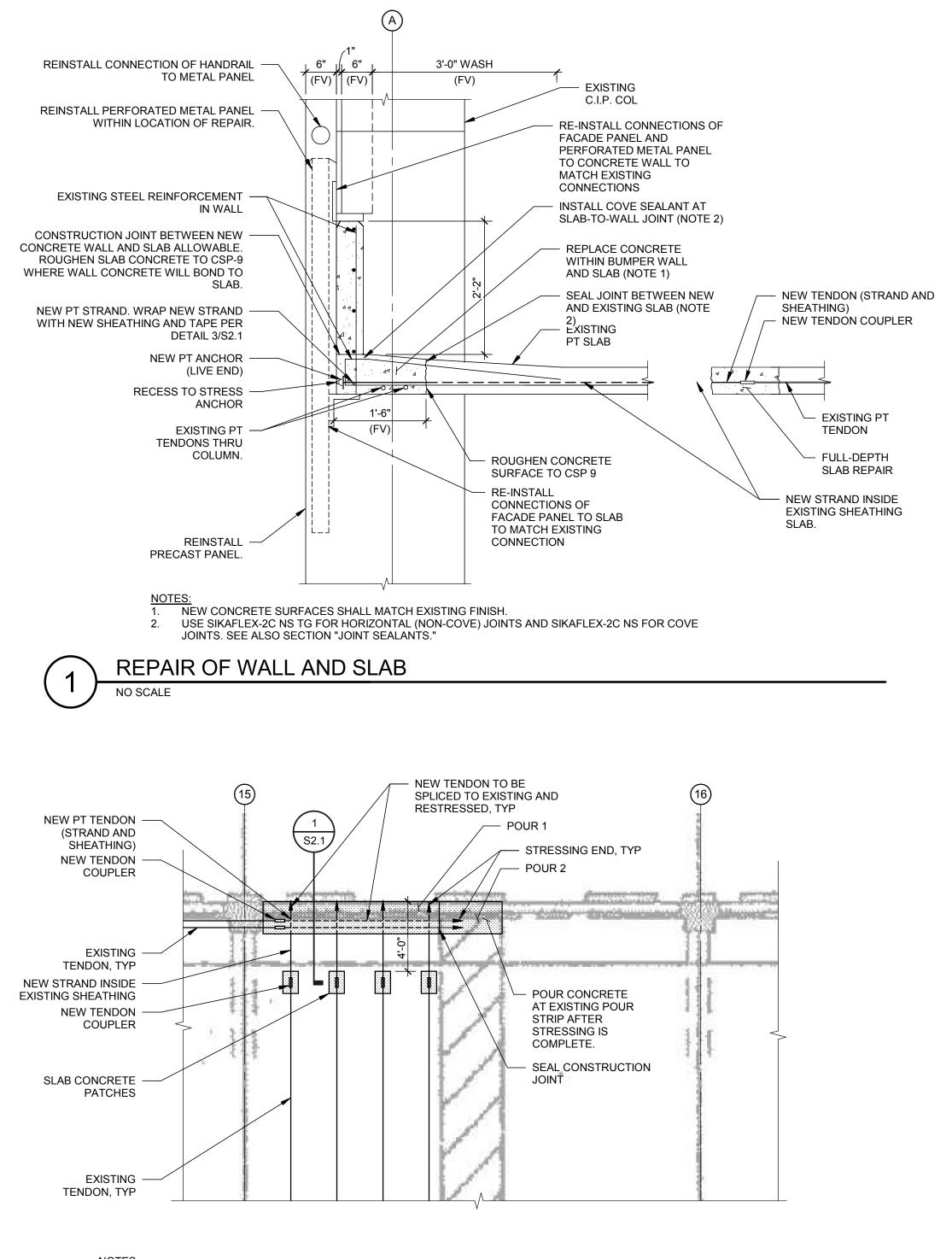
# PHOTO 1 - TYPICAL EXISTING CONNECTIONS AT TOP OF BUMPER WALL



EXISTING TENDON LENGTH TO REMAIN ON DEMOLITION SIDE OF LOCK-OFF AS NEEDED TO ATTACH NEW COUPLER SPLICE. ACTUAL LENGTH OF SPLICE AND PT HARDWARE TO BE DETERMINED BY SPECIALTY CONTRACTOR. PT TENDON REPAIR OPERATION SHALL BE PERFORMED ONLY BY A QUALIFIED PT RESTORATION CONTRACTOR.

**EXISTING PT TENDON LOCK-OFF** 

WALTER P MOORE				
WALTER P. MOORE AND ASSOCIATES, INC. 201 EAST KENNEDY BOULEVARD, SUITE 300 TAMPA, FLORIDA 33602 PHONE: 813.221.2424 FAX: 813.221.2289				
PHONE: 813.221.2424 FAX: 813.221.2289 Project : SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE FIXTURE REPAIR TAMPA, FL				
Client :				
CITY OF TAMPA				
No. Date Description				
1       10/17/17       ISSUED FOR BID				
Project Number : Drawn By :				
Soft Number 1Drawn By 1Soft 17007.00AZApproved By 1Checked By 1WWWW/EVC				
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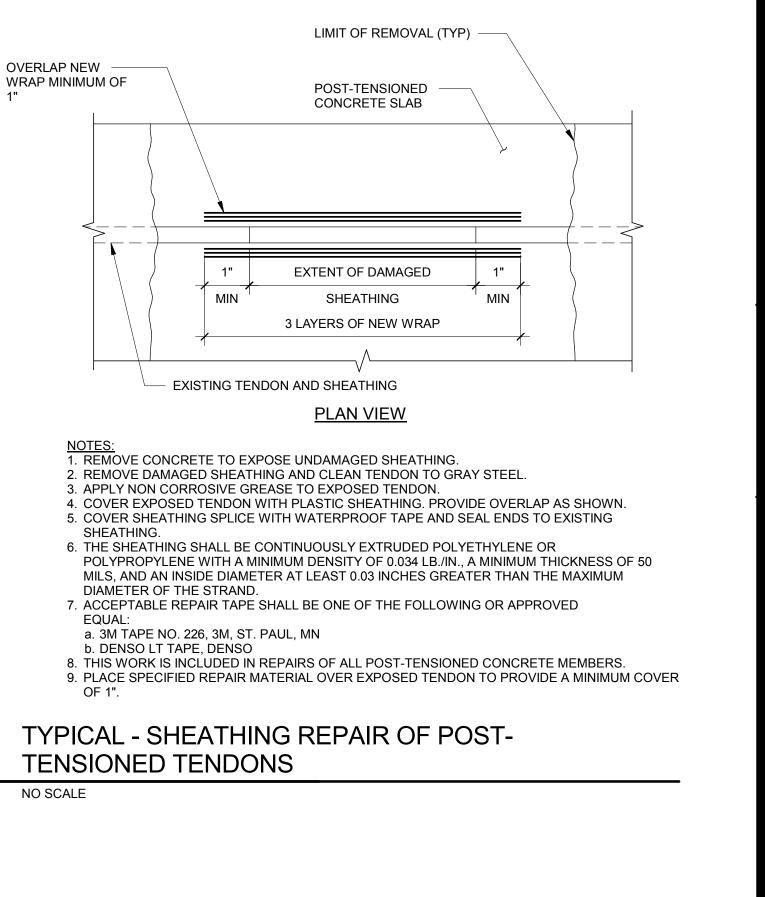


NOTES

3.

- ACTUAL LENGTH OF SPLICE AND PT HARDWARE TO BE DETERMINED BY SPECIALTY CONTRACTOR. 1. PT TENDON REPAIR OPERATION SHALL BE PERFORMED ONLY BY A QUALIFIED PT RESTORATION CONTRACTOR.
- ANCHORS AT STRESSING END SHALL BE AT MID-DEPTH OF SLAB.

#### PARTIAL PLAN - PT SLAB TENDON REPAIR 2 NO SCALE



3

# WALTER P MOORE WALTER P. MOORE AND ASSOCIATES, INC. 201 EAST KENNEDY BOULEVARD, SUITE 300 TAMPA, FLORIDA 33602 PHONE: 813.221.2424 FAX: 813.221.2289 Proiect SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE **FIXTURE REPAIR** TAMPA. FL Client : CITY OF TAMPA No. Date Description 10/17/17 ISSUED FOR BID Project Number : Drawn By : S05.17007.00 ΑZ Approved By : Checked By : WW/EVC WW Certification Statement : TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES. Seal and Signature : ENGINEER OF RECORD: E. WEBB WRIGHT CERTIFICATION OF AUTHORIZATION NO.: 3818 Copyright (c) 2016 by Walter P. Moore and Associates, Inc. This document and the information herein is the property of Walter F

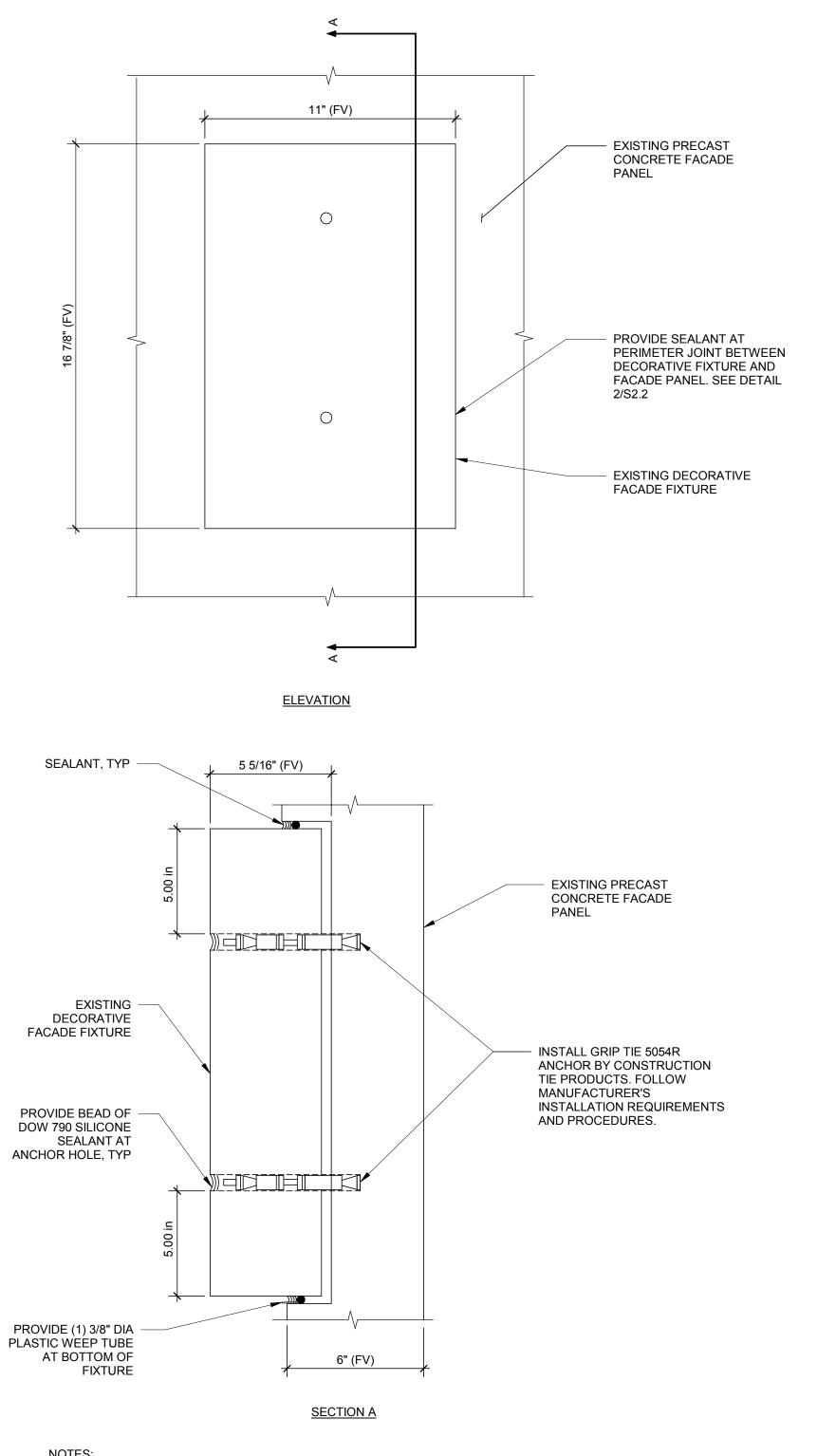
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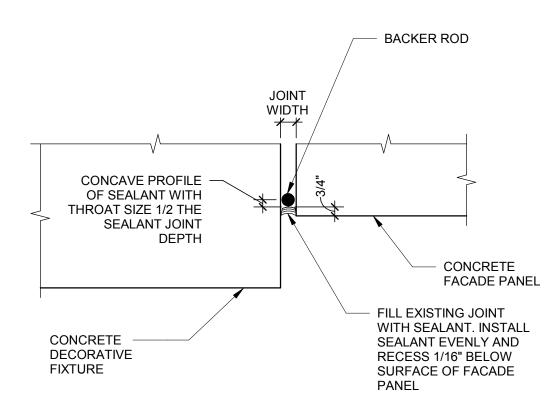


<u>NOTES:</u> 1. PROVIDE REPAIR DETAIL AT ALL **291 LOCATIONS** OF DECORATIVE FIXTURE AT GARAGE FACADE.

# ANCHORAGE FOR EXISTING DECORATIVE CONCRETE FACADE FIXTURE

NO SCALE

	WALTER P. MOORE AND ASSOCIATES, INC. 201 EAST KENNEDY BOULEVARD, SUITE 300 TAMPA, FLORIDA 33602 PHONE: 813.221.2424 FAX: 813.221.2289			
	Pro	Project :		
	SOUTH REGIONAL GARAGE BUMPER WALL AND DECORATIVE FIXTURE REPAIR TAMPA, FL			
		CITY OF TAMPA		
	No.	Date	Description	
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	SoftwirtherDrawn By :SoftwirtherAZApproved By :Checked By :			
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	TO TH AND S	Certification Statement : TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.		
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and the second	ENGINEER OF RECORD: E. WEBB WRIGHT FL PE NO.: 57639 CERTIFICATION OF AUTHORIZATION NO.: 3818 Copyright (c) 2016 by Walter P. Moore and Associates, Inc.			
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	DETAILS			
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NOTES

- REMOVE EXISTING JOINT SEALANT MATERIAL.
   CLEAN JOINT BEFORE FILLING WITH SEALANT SUCH THAT THERE ARE NO OLD RESIDUAL MATE DUST AND CONTAMINANTS.
- DO NOT OVERFILL THE JOINT.
   JOINT SEALANT SHALL BE DOW 790 SILICONE SEALANT. 5. SEALANT COLOR TO BE CHOSEN BY OWNER.
- 6. REFER ALSO TO SECTION "JOINT SEALANTS."

# JOINT SEALANT BETWEEN DECORATIVE

FIXTURE AND FACADE PANEL

NO SCALE

2



# **EXISTING DECORATIVE FIXTURE**

NO SCALE

3