

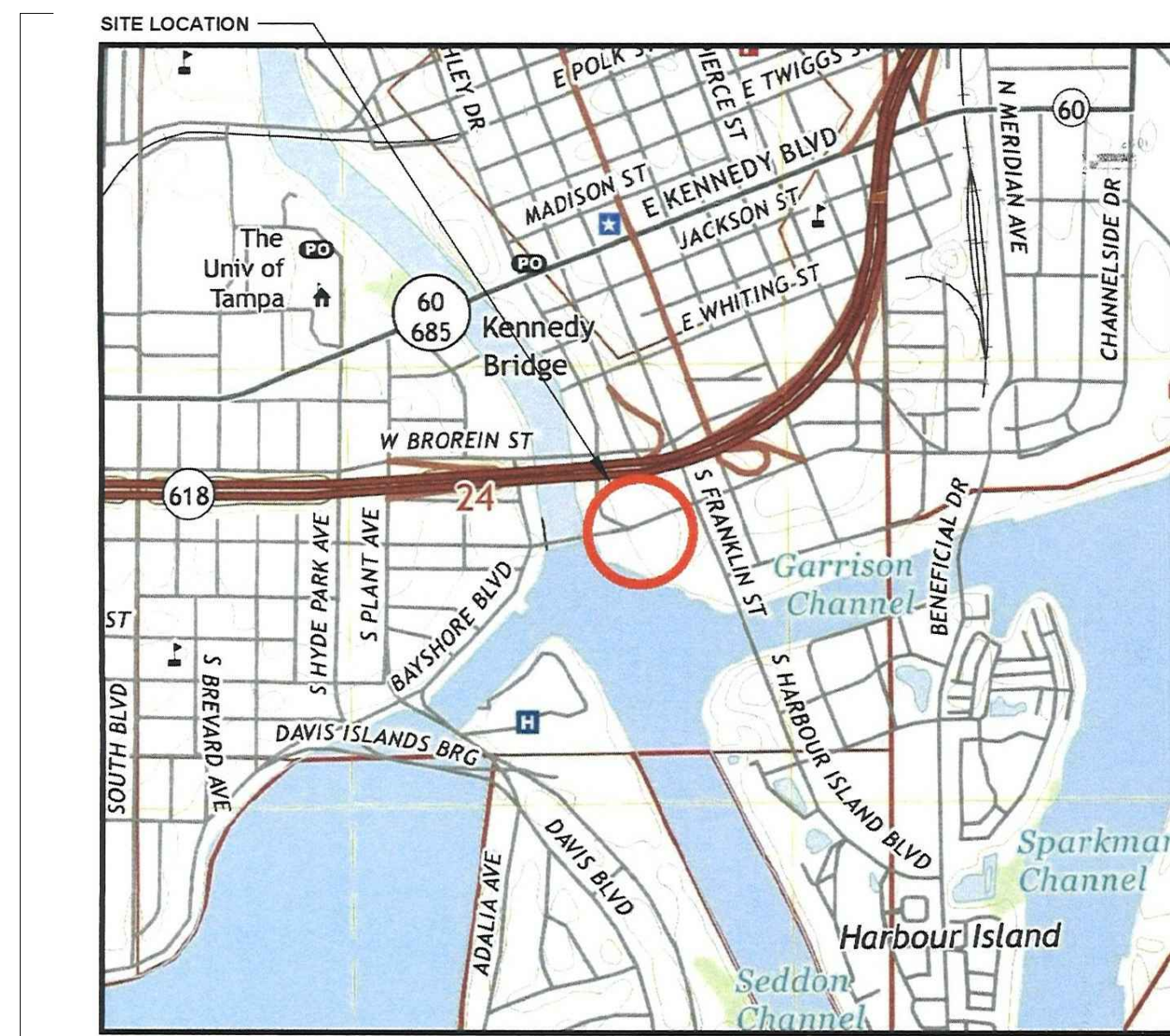
# 100% CONSTRUCTION DOCUMENTS

## CONTRACT NO. 20-C-00018 RIVERWALL PLAZA

### ASHLEY DRIVE AT CHANNELSIDE DRIVE, TAMPA FLORIDA

City of Tampa  
CONSTRUCTION SERVICES DIVISION  
PLAN APPROVAL  
BLD-21-0482262 5/17/2021  
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES  
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.  
The Stamping of this plan shall not be held to permit or approve the violation of any City or State Codes  
REVIEWED FOR CODE COMPLIANCE

Site - John Franklin - Approved - 5/17/2021  
Building - John Franklin - Approved - 5/17/2021  
Electrical - John Franklin - Approved - 5/17/2021  
Urban Design - John Franklin - Approved with Comments - 5/17/2021

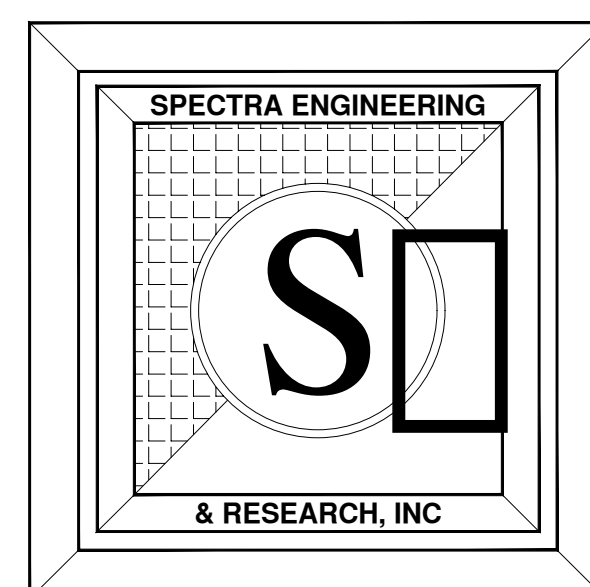


LOCATION

City of Tampa  
PLANNING AND DEVELOPMENT  
URBAN DESIGN APPROVAL  
Signed: Andy Mikulski Date: 4/26/2021  
Any changes to these drawings must be approved by the Planning & Urban Design Division  
Note: This Approval specifically pertains to Development Design Review only, relative to Overlay District Design Standards. This approval does NOT serve as an all-inclusive approval for the City of Tampa (all departments) as a whole.  
REVIEWED FOR CODE COMPLIANCE

#### SHEET INDEX

SHEET NO.	DESCRIPTION
C 0.0	COVER SHEET
C 1.0	SITE SURVEY
C 2.0	EXISTING CONDITIONS
C 3.0	DEMOLITION & EROSION CONTROL
C 4.0	SUB SURFACE SCAN
C 5.0	LANDSCAPE PLAN
C 6.0	SITE DESIGN
C 7.0	GEOMETRY LAYOUT
C 8.0	PAVING GRADING & DRAINAGE
C 9.0	CROSS SECTION DETAILS
C 10.0	SITE FURNISHING DETAILS
C 10.1	WATER DETAILS
C 11.0	TURN ANALYSIS (INNER LANE)
C 12.0	MAINTENANCE OF TRAFFIC
C 13.0	DETAILS & NOTES
C 14.0	NOTES
C 15.0	ARCHAEOLOGICAL INFORMATION
E 1.0	GENERAL ELECTRICAL NOTES LEGEND
E 2.0	ELECTRICAL SITE POWER PLAN
E 3.0	RISER DIAGRAM AND DETAILS
E 4.0	SCHEDULES AND DETAILS
E 5.0	SPECIFICATIONS
S-0	NOTES
S-1.1	ROOF PLAN AND ELEVATION
S-1.2	SECTION
S-2.1	DETAILS



**CITY OF TAMPA FLORIDA**  
**306 EAST JACKSON STREET TAMPA**  
**FLORIDA 33602**

ROW improvements are not part of this review and must comply with requirements of the ROW permit

**CONSULTANT: SPECTRA ENGINEERING & RESEARCH INC.**

**, Suite B**  
**Tallahassee, Florida 32301**  
**PHONE (850) 656-9834**  
**FAX : (850) 942-2717**

**Web: <http://www.spectraengr.com>**  
**E-mail: [Spectra@Spectraengr.com](mailto:Spectra@Spectraengr.com)**

#### GOVERNING STANDARDS AND SPECIFICATIONS:

1. Florida Department Transportation (FDOT) Standard Specifications for Road and Bridge Construction, Latest Edition and all supplemental documents thereto.
2. FDOT Roadway and Traffic Design Standards, Latest Edition.
3. The implementation of Maintenance of Traffic (MOT) shall follow the latest edition of FDOT Standard Specifications for Road and Bridge Construction and FDOT Design Standards.

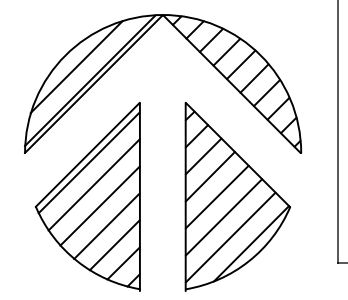
**PETER C OKONKWO** Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:08:27 -05'00'

**4401 Vineland Road, Suite A6**  
**Orlando, Florida 32811**  
**PHONE (407) 951-8844**  
**FAX : (407) 951-8845**

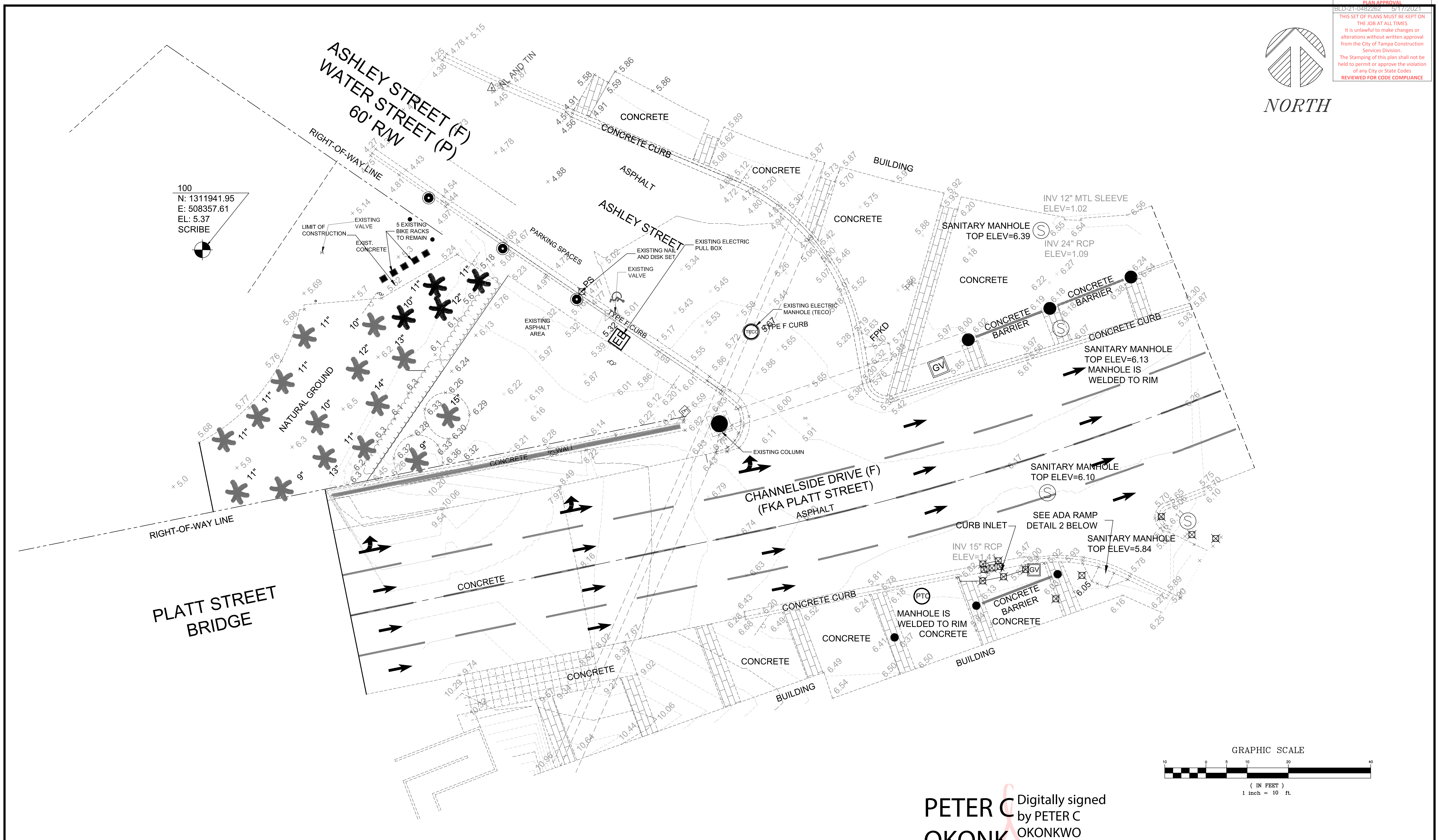
**Web: <http://www.spectraengr.com>**  
**E-mail: [Spectra@Spectraengr.com](mailto:Spectra@Spectraengr.com)**

#### LENGTH OF PROJECT

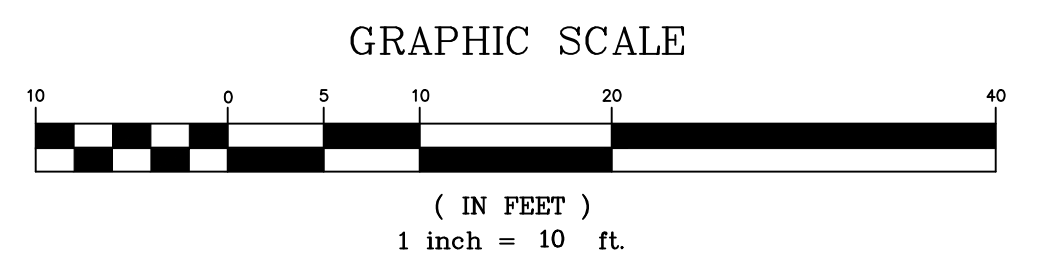
	LINEAR FEET	MILE(S)
NET LENGTH OF PROJECT	121.00	0.023



NORTH



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E: 508357.61  
EL: 5.37  
SCRIBE



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Digitally signed by PETER C. OKONKWO  
Date: 2021.02.05 14:11:21 -05'00'  
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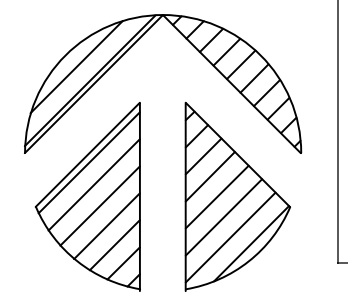
**SPECTRA ENGINEERING & RESEARCH, INC.**  
NBR# = LB5698 CA# = 5698  
CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address: Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: CITY OF TAMPA

PROJECT: TAMPA RIVERWALL PLAZA

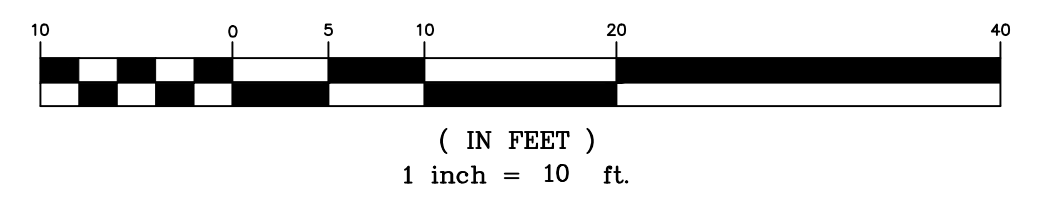
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DATE: 10/07/2019			
DWG. NO.: 19-016			
APPVD. BY: PCO			
PROJ. NO.: 19-016			
DWG. EXISTING			
SCALE: AS SHOWN			



**NORTH**

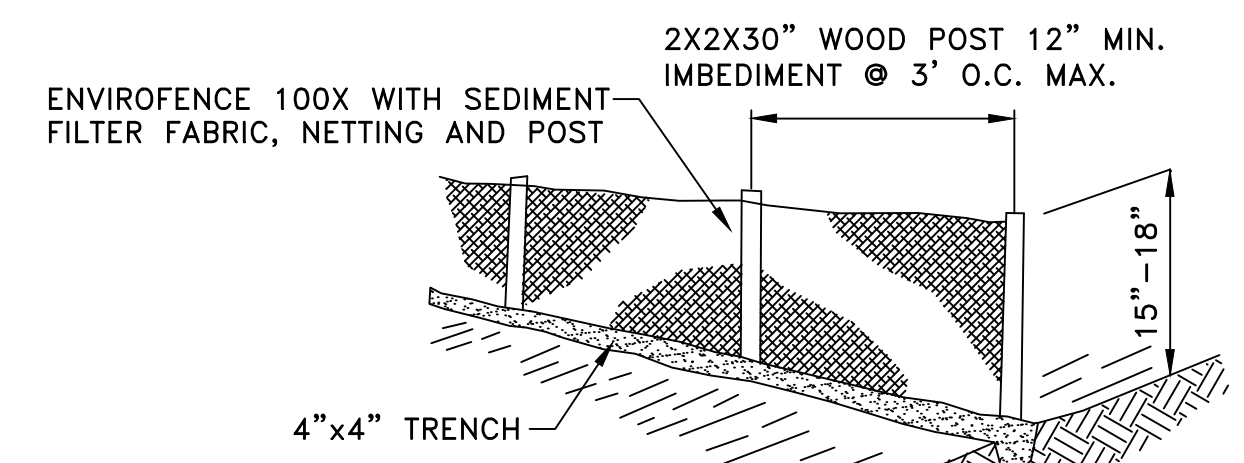
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E: 508357.61  
EL: 5.37  
SCRIBE

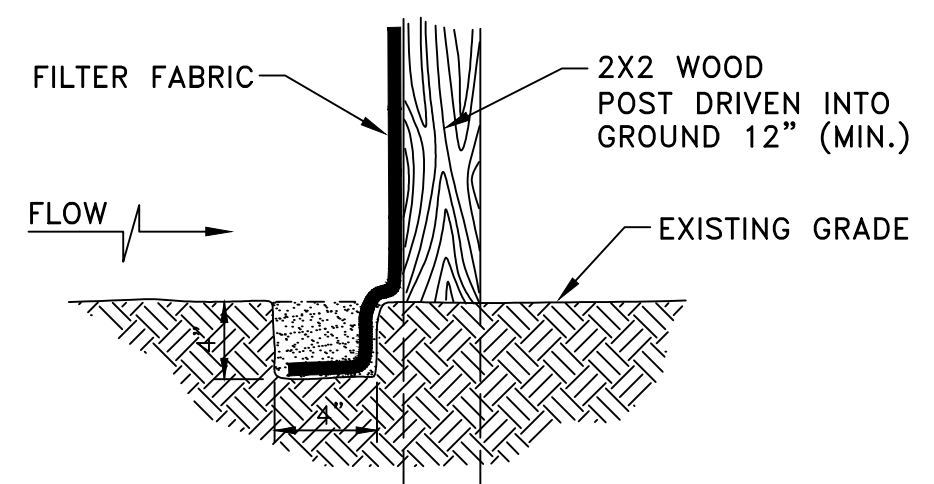
NOTE:  
REMOVE 4 PALM TREES AS NOTED ON THIS SHEET.

NOTE:  
ALL EXISTING PUBLIC WATER BOXES TO BE BROUGHT TO PROPOSED GRADE PER DETAILS 3.01.3.04 AND 3.05 ON SHEET C10.1

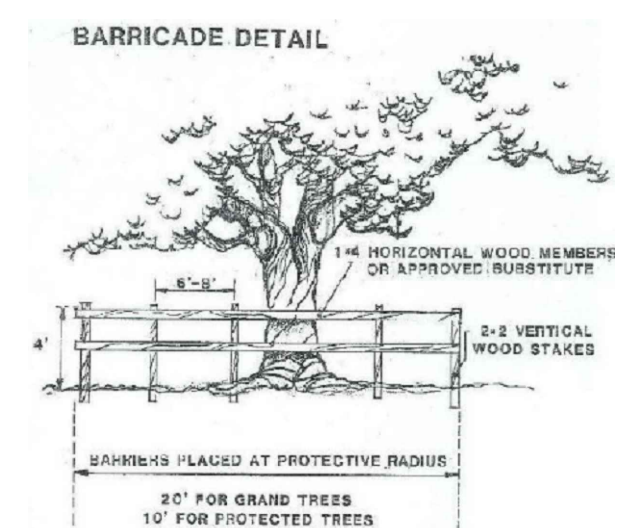


**SILT FENCE DETAIL (ES BMP 1.06)**

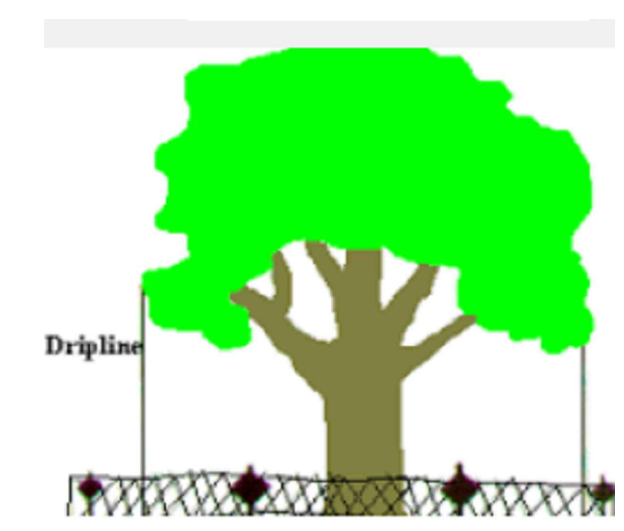
N.T.S. ELEVATION \* REFER TO ES BMP 1.06 "FLORIDA DEVELOPMENT MANUAL" -SIDE TO SOUND LANE AND WATER MANAGEMENT



**SECTION**  
N.T.S.



**TREE BARRICADE**



**FENCE APPLICATION TYPICAL**

**LEGEND**

- PALM TREES TO BE REMOVED
- PALM TREES TO REMAIN

**PETER C OKONKWO**

Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:11:46 -05'00'

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Company Address: Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: **CITY OF TAMPA**

PROJECT: **TAMPA RIVERWALL PLAZA**

SHEET TITLE: **DEMOLITION PLAN**

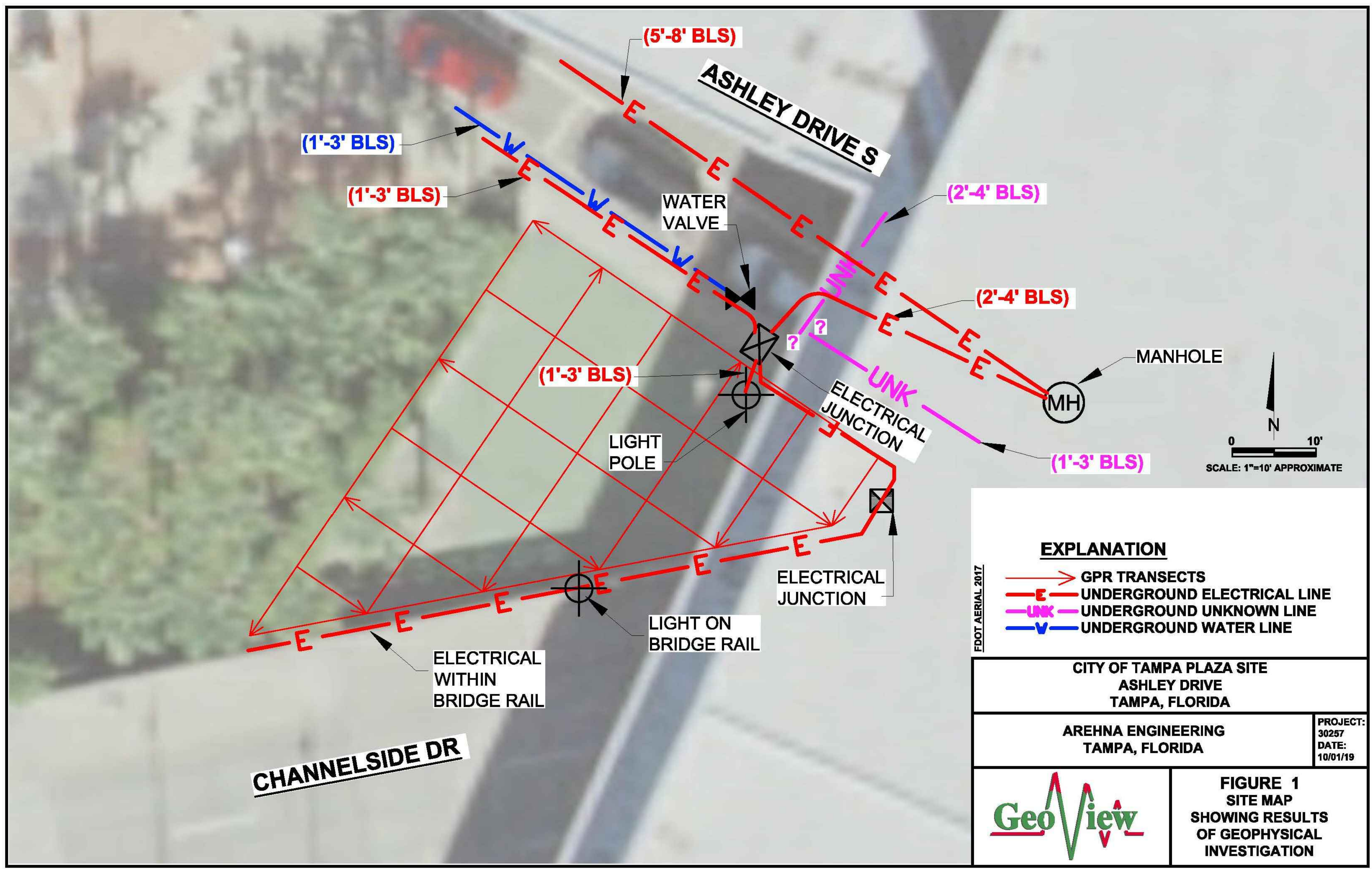
THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.  
  
PETER C. OKONKWO, P.E.  
FLA. REGISTRATION NO. 51459

DRAWN BY: FA  
DATE: 10/07/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. DEMOLITION  
SCALE: AS SHOWN

REVISIONS	INITIAL

**SHEET NO**  
**C3.0**  
**3 OF 15**

NORTH



**EXPLANATION**

	GPR TRANSECTS
	UNDERGROUND ELECTRICAL LINE
	UNDERGROUND UNKNOWN LINE
	UNDERGROUND WATER LINE

**CITY OF TAMPA PLAZA SITE**  
ASHLEY DRIVE  
TAMPA, FLORIDA

**AREHNA ENGINEERING**  
TAMPA, FLORIDA

**PROJECT:** 30257  
**DATE:** 10/01/19

**GeoView**

**FIGURE 1**  
**SITE MAP**  
**SHOWING RESULTS**  
**OF GEOPHYSICAL**  
**INVESTIGATION**

NOT FOR CONSTRUCTION

2 RIVERWALK PANELS' SIGN SITE PLAN LAYOUT Scale: 1:5

PETER C OKONKWO  
Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:12:09 -05'00'

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CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address: Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: CITY OF TAMPA

PROJECT: TAMPA RIVERWALL PLAZA

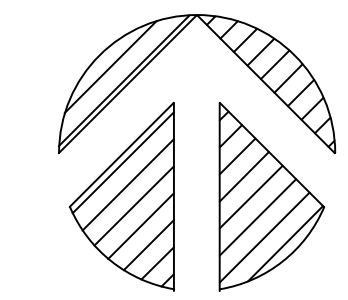
SHEET TITLE: SUBSURFACE SCAN

PETER C. OKONKWO, P.E.  
FLA. REGISTRATION NO. 51459

DRAWN BY: FA  
DATE: 10/07/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. DEMOLITION  
SCALE: AS SHOWN

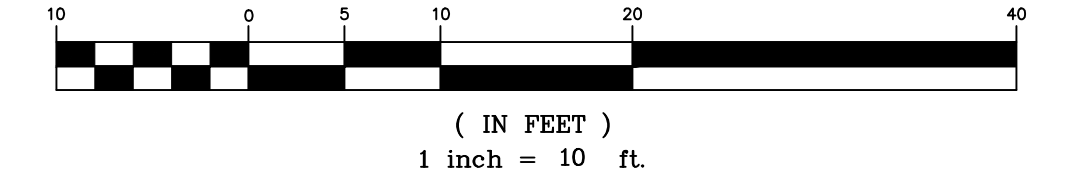
REVISIONS	INITIAL

SHEET NO  
**C 4.0**  
4 OF 15

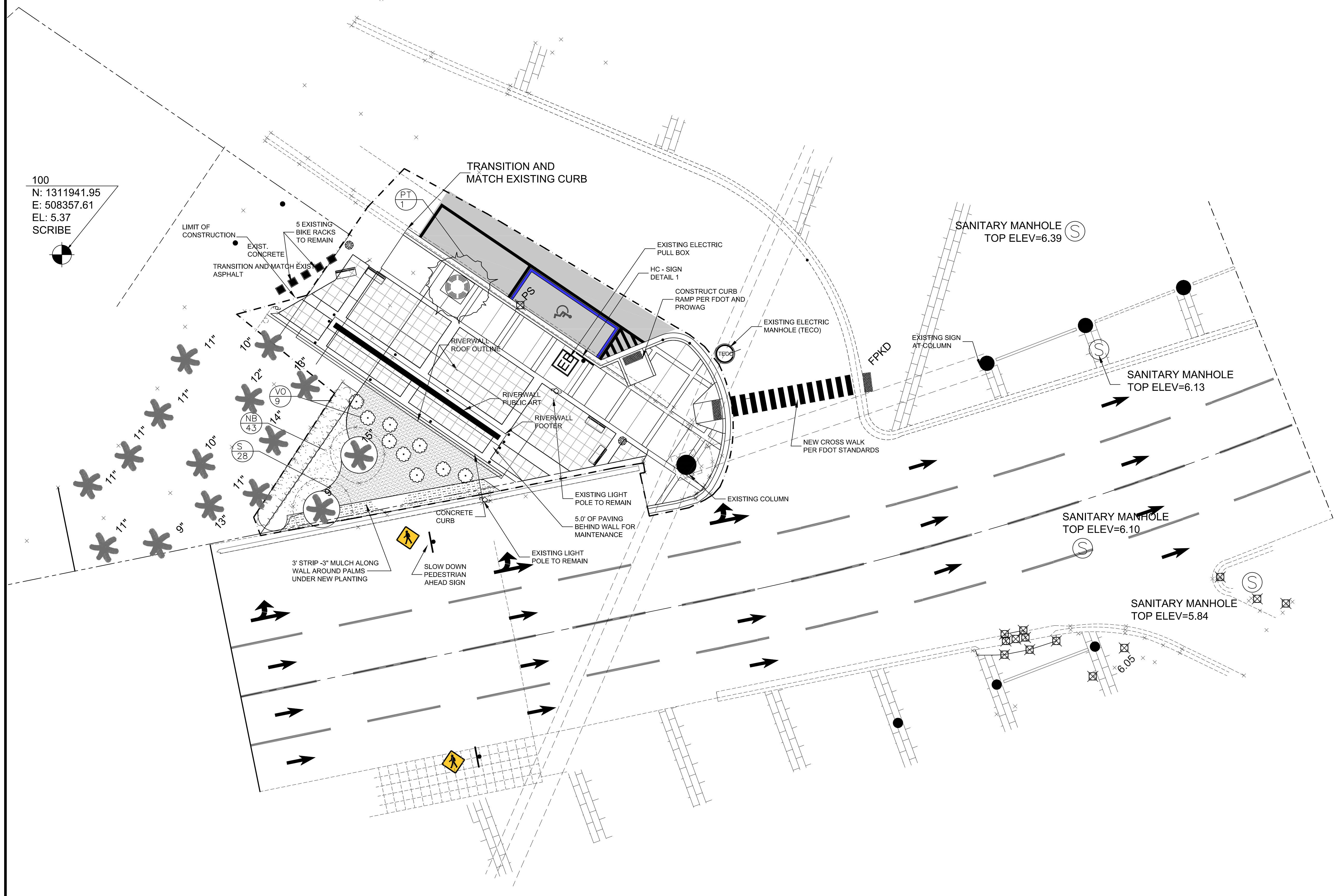


NORTH

GRAPHIC SCALE



100  
N: 1311941.95  
E: 508357.61  
EL: 5.37  
SCRIBE



LANDSCAPING SCHEDULE

SYMBOL	ABBREVIATION	QUANTITY	BOTANICAL NOMENCLATURE	COMMON NAME	SIZE/SPEC/REM	MAINTENANCE	PLANT LIST
TREES							
PT		1	LAGARSTROEMIA FAUREL 'MUSKOGEE'	ORANGE MYRTLE	3" CALIPER, 8' CLEAR TRUNK, FLORIDA #1		PLANTED IN METAL TREE GRATE IN SIDEWALK
SHRUBBERY							
VO		9	ZAMBIA PALM	COONITE	STAGGERED 7 GAL.		
GROUND COVER							
S		28	SPARTINA BAKER	SAND	SAND CORAGRASS		3 GALLON
NB		43	NEPHROLEPS EXALTATA	FERN	NATIVE BOSTON FERN		3 GALLON
				MULCH	MINI PINE DARK		3" DEPTH

PALM TREES RETAINED ON SITE			
DIAMETER (INCHES)	# RETAINED ON SITE	MULTIPLIER FOR CREDIT	CREDIT
	15	1	15
TOTAL DEBITS			
			4
MITIGATION REQUIRED			
			0

PALM TREES REMOVED FROM THE SITE			
DIAMETER (INCHES)	# REMOVED	MULTIPLIER FOR CREDIT	CREDIT
	4	1	4
TOTAL DEBITS			
			4
MITIGATION REQUIRED			
			0



PETER C. OKONKWO  
Digitally signed by PETER C. OKONKWO  
Date: 2021.02.05 14:18:05 -05'00'  
PETER C. OKONKWO, P.E.  
FLA. REGISTRATION NO. 51459

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CLIENT: CITY OF TAMPA

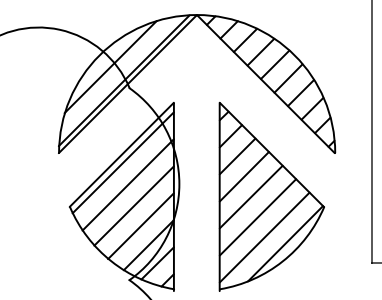
PROJECT: TAMPA RIVERWALL PLAZA

SHEET TITLE: LANDSCAPE PLAN

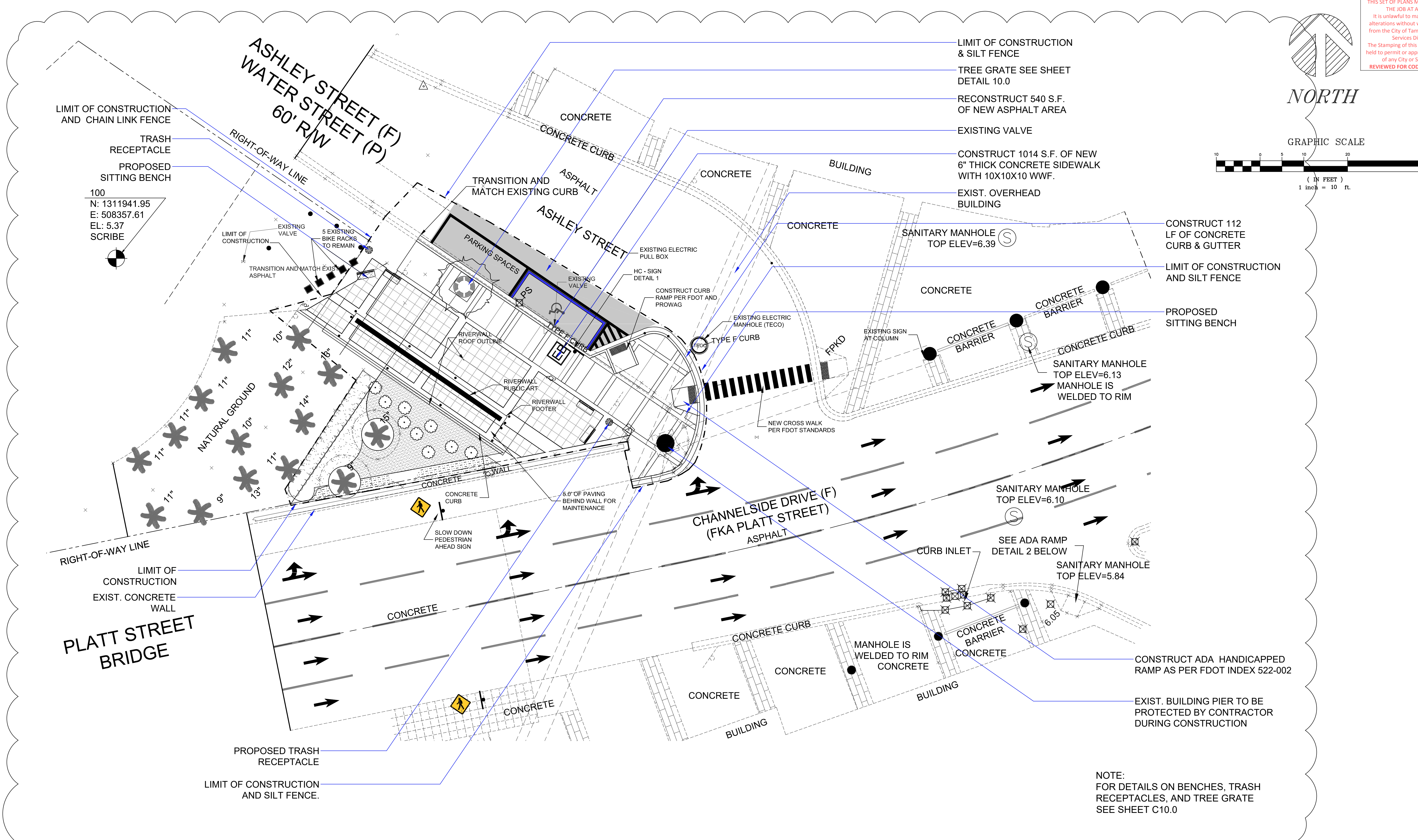
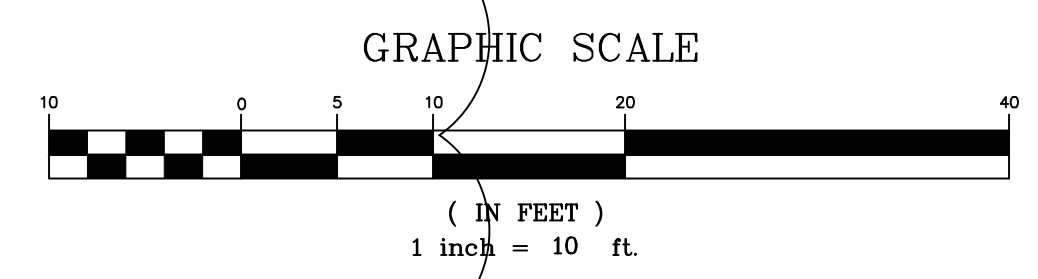
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DATE: 10/07/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. DEMOLITION  
SCALE: AS SHOWN

REVISIONS	INITIAL

SHEET NO. C5.0  
5 OF 15



NORTH



LIMIT OF CONSTRUCTION AND CHAIN LINK FENCE  
TRASH RECEPTACLE  
PROPOSED SITTING BENCH  
100  
N: 1311941.95  
E: 508357.61  
EL: 5.37  
SCRIBE

LIMIT OF CONSTRUCTION & SILT FENCE  
TREE GRATE SEE SHEET DETAIL 10.0  
RECONSTRUCT 540 S.F. OF NEW ASPHALT AREA  
EXISTING VALVE  
CONSTRUCT 1014 S.F. OF NEW 6" THICK CONCRETE SIDEWALK WITH 10X10X10 WWF.  
EXIST. OVERHEAD BUILDING

CONSTRUCT 112 LF OF CONCRETE CURB & GUTTER  
LIMIT OF CONSTRUCTION AND SILT FENCE  
PROPOSED SITTING BENCH

SANITARY MANHOLE TOP ELEV=6.39  
CONCRETE BARRIER  
CONCRETE CURB  
SANITARY MANHOLE TOP ELEV=6.13  
MANHOLE IS WELDED TO RIM

SANITARY MANHOLE TOP ELEV=6.10  
SEE ADA RAMP DETAIL 2 BELOW  
SANITARY MANHOLE TOP ELEV=5.84

CONSTRUCT ADA HANDICAPPED RAMP AS PER FDOT INDEX 522-002  
EXIST. BUILDING PIER TO BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION

NOTE:  
FOR DETAILS ON BENCHES, TRASH RECEPTACLES, AND TREE GRATE SEE SHEET C10.0

PETER C. OKONKWO  
Digitally signed by PETER C. OKONKWO  
Date: 2021.02.05 14:18:31 -05'00'

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CLIENT: CITY OF TAMPA

PROJECT: TAMPA RIVERWALL PLAZA

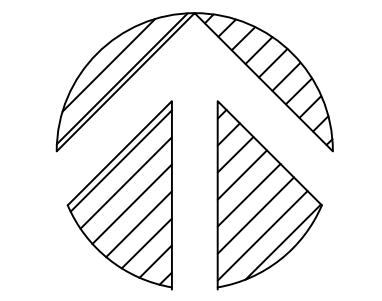
SHEET TITLE: PROPOSED SITE PLAN

NO	DATE	REVISIONS	INITIAL
1	5/4/2020	REVISION FROM 4-28-2020 MEETING	

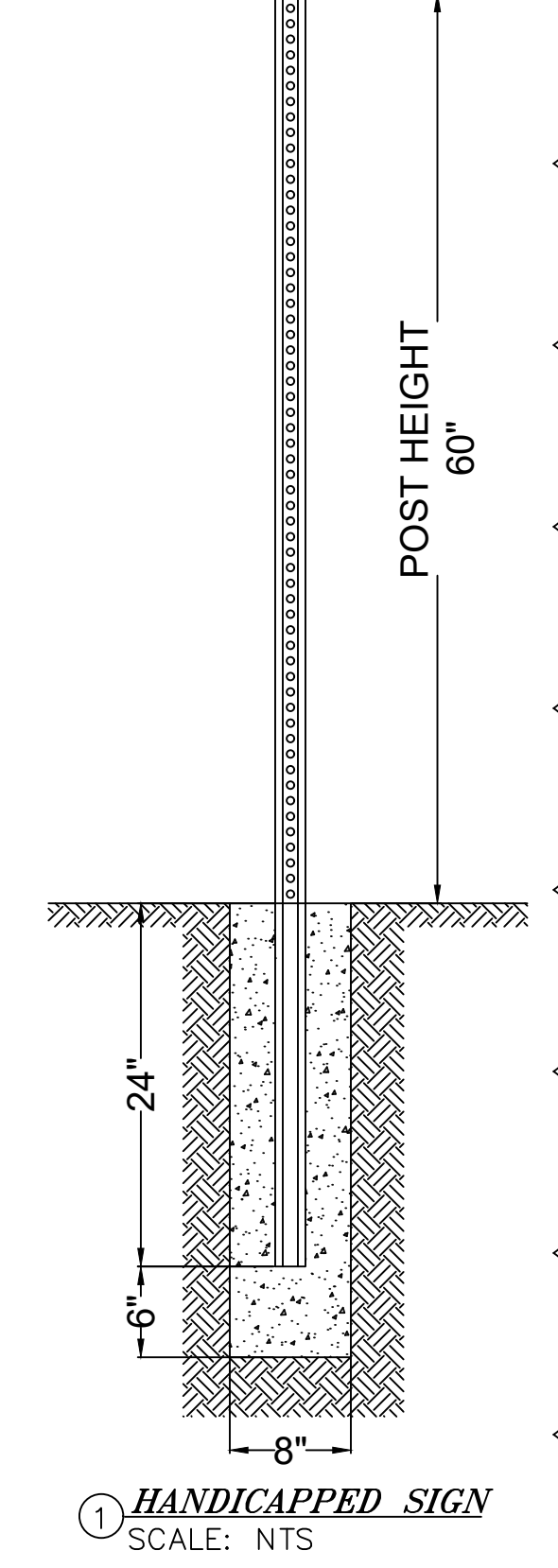
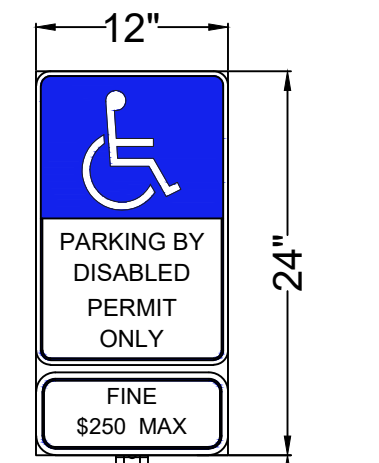
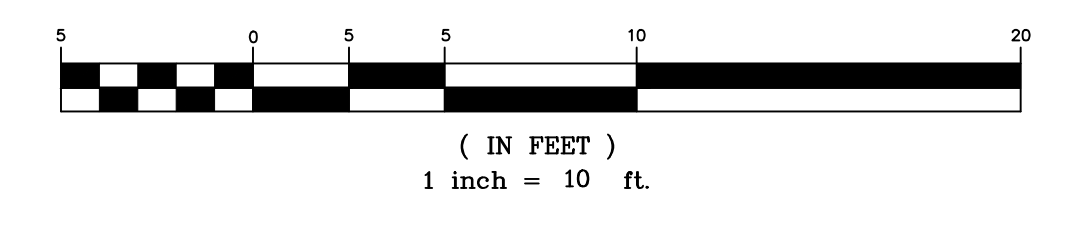
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APPVD. BY: PCO  
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DWG. DEMOLITION  
SCALE: AS SHOWN

**SHEET NO**  
C 6.0  
6 OF 15

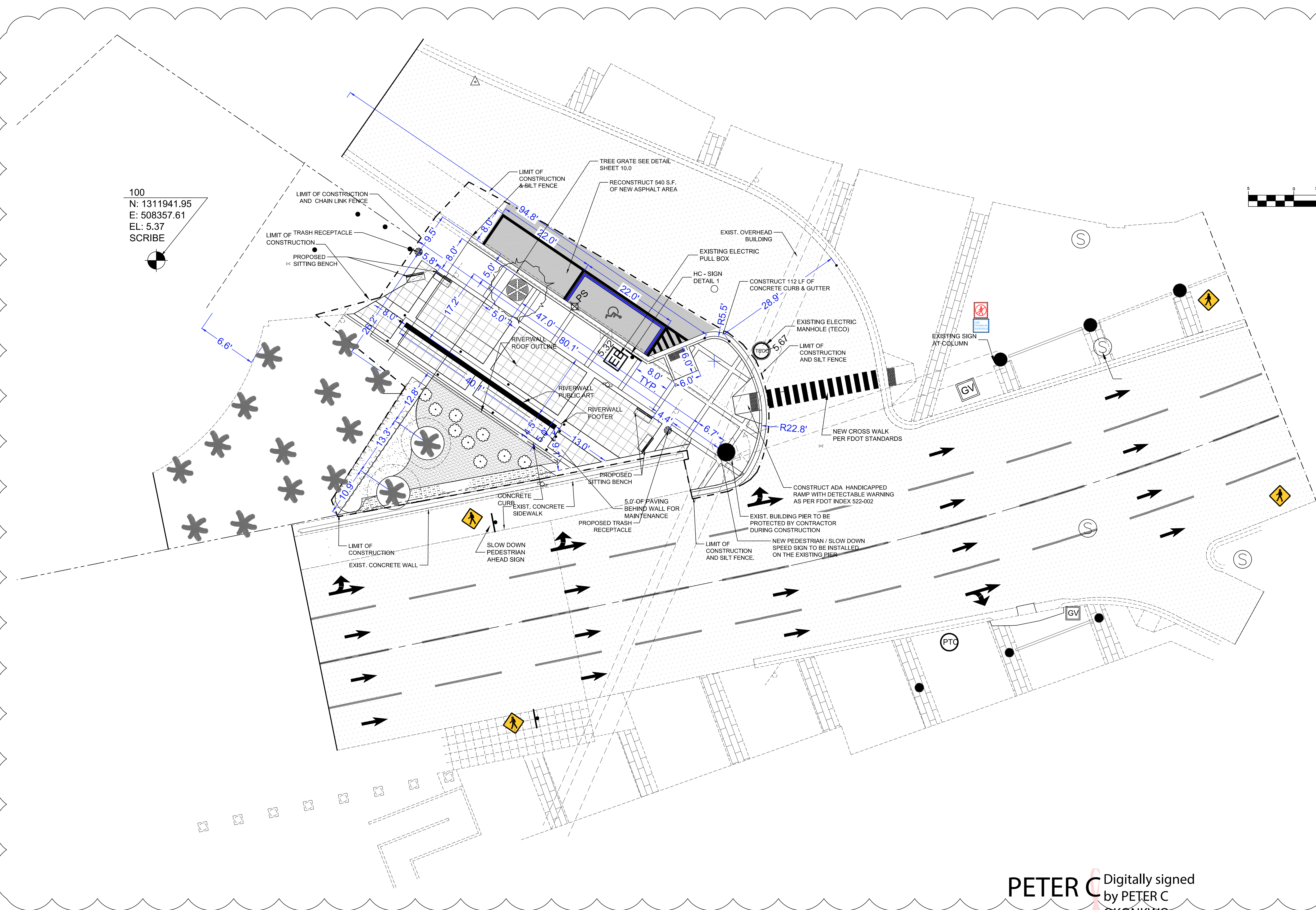
City of Tampa  
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BLD-21-0482262 5/17/2021  
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REVIEWED FOR CODE COMPLIANCE



**NORTH**  
GRAPHIC SCALE



① HANDICAPPED SIGN  
SCALE: NTS



100  
N: 1311941.95  
E: 508357.61  
EL: 5.37  
SCRIBE

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Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:18:58 -05'00'

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CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: CITY OF TAMPA

PROJECT: TAMPA RIVERWALL PLAZA

SHEET TITLE: GEOMETRY PLAN

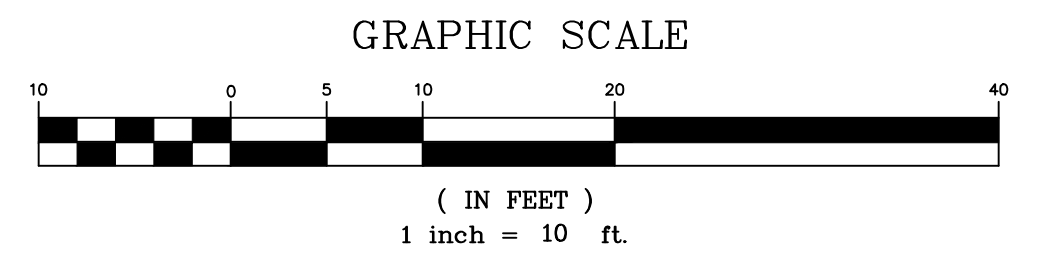
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FLA. REGISTRATION NO. 51459

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DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO. 19-016  
DWG. GEOMETRY  
SCALE: AS SHOWN

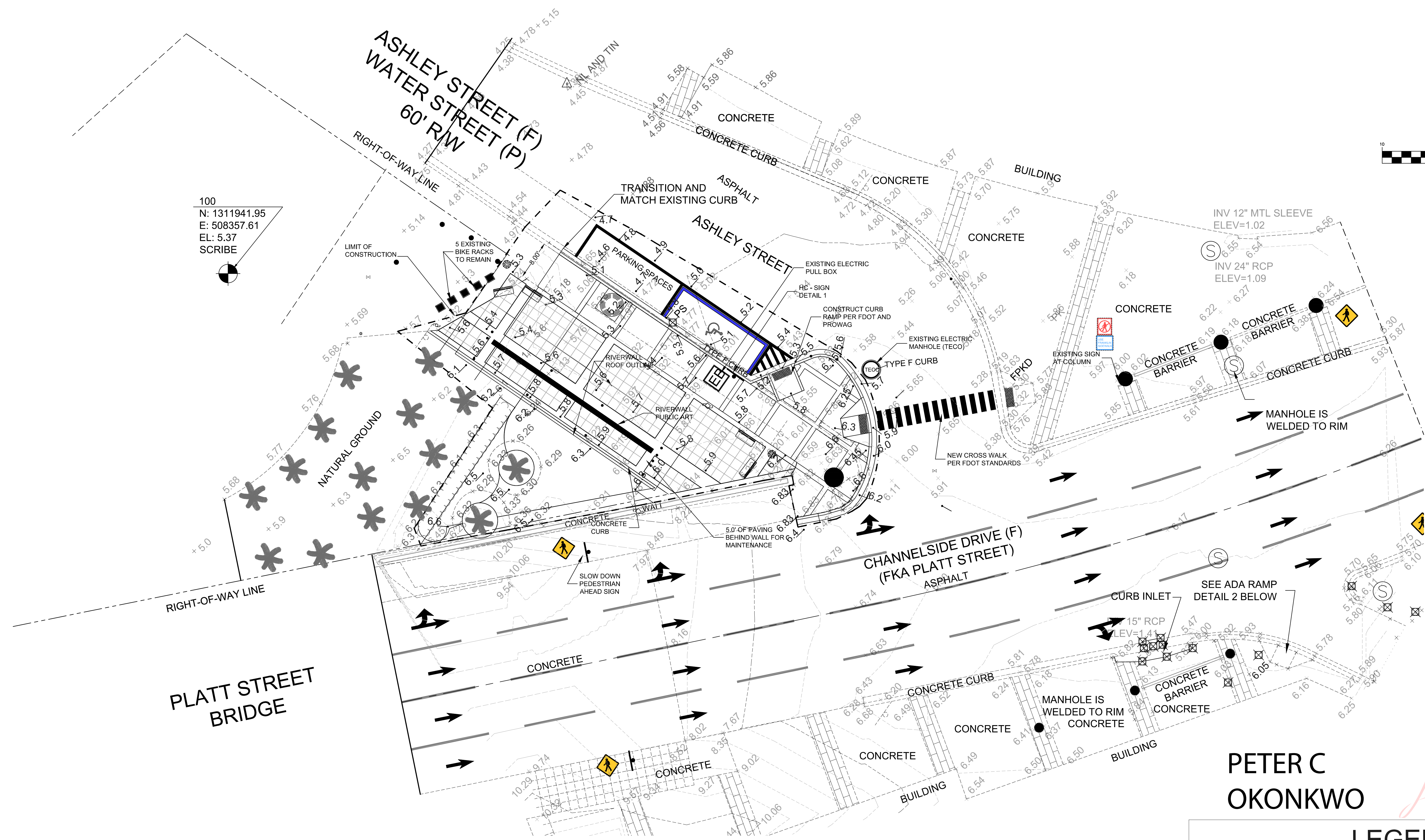
REVISIONS	INITIAL

SHEET NO  
**C7.0**  
7 OF 15

NORTH



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N: 1311941.95  
E: 508357.61  
EL: 5.37  
SCRIBE



PETER C OKONKWO  
Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:19:34 -05'00'

2 RIVERWALL PLAZA GRADING & DRAINAGE PLAN  
Scale:

LEGEND  
+ 4.26 EXISTING SPOT ELEVATION  
\_ 4.26 NEW SPOT ELEVATION

**SPECTRA ENGINEERING & RESEARCH, INC.**  
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CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address: Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: CITY OF TAMPA

PROJECT: TAMPA RIVERWALL PLAZA

SHEET TITLE: GRADING AND DRAINAGE PLAN

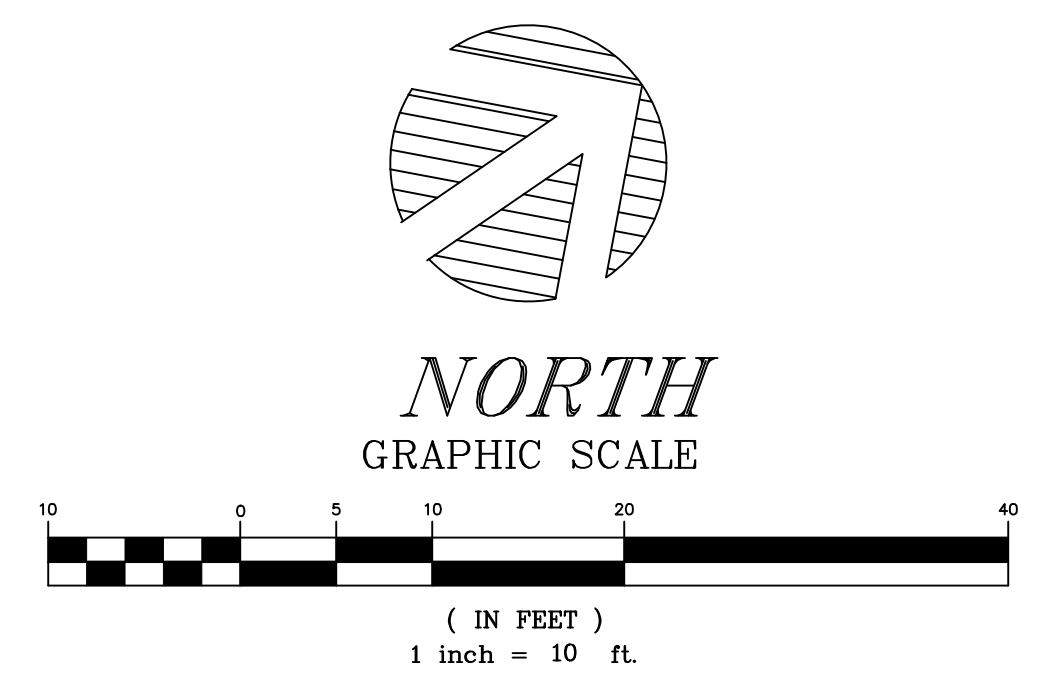
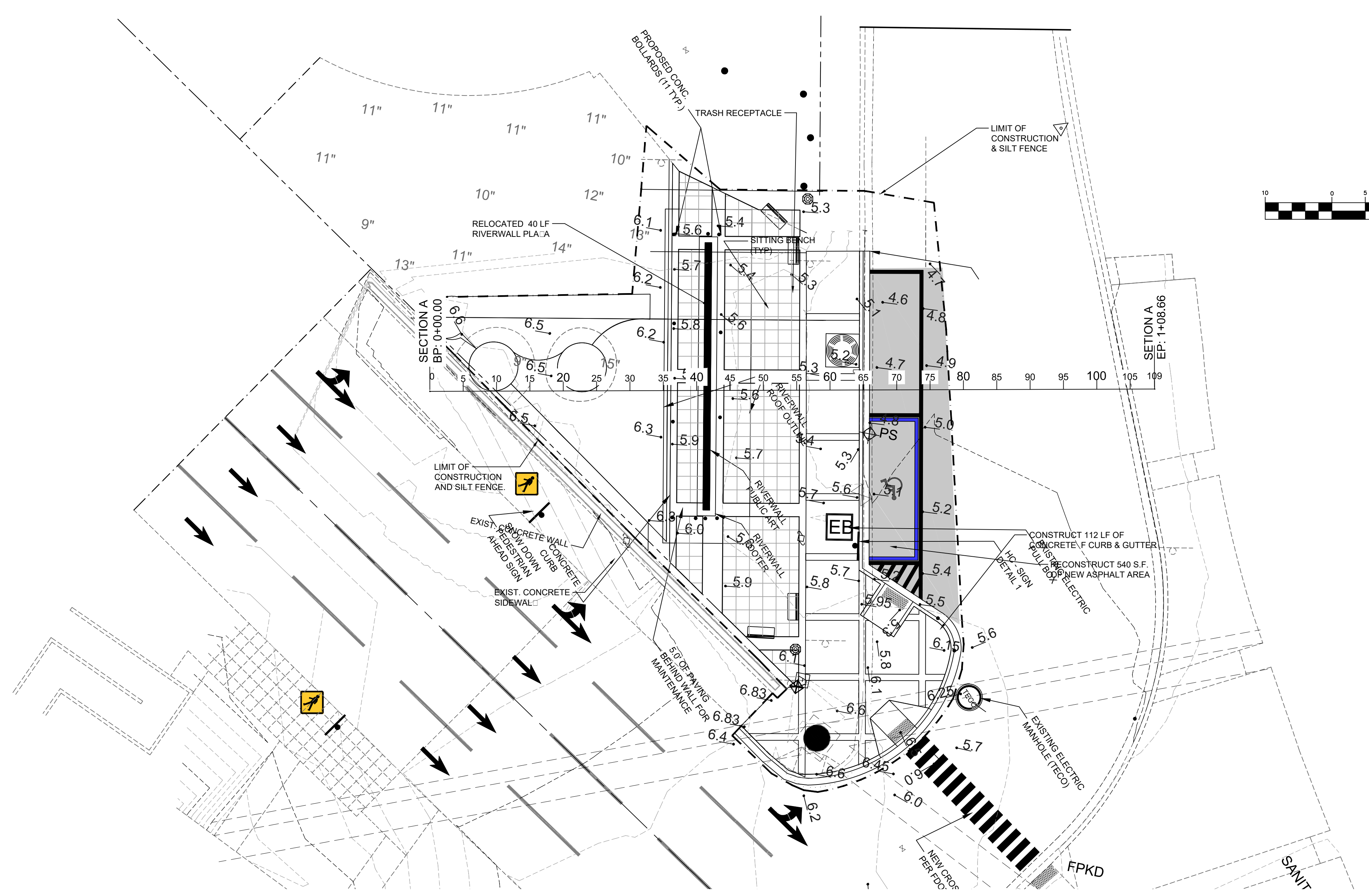
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FLA. REGISTRATION NO. 51459

DRAWN BY: FA  
DATE: 10/07/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. DEMOLITION  
SCALE: AS SHOWN

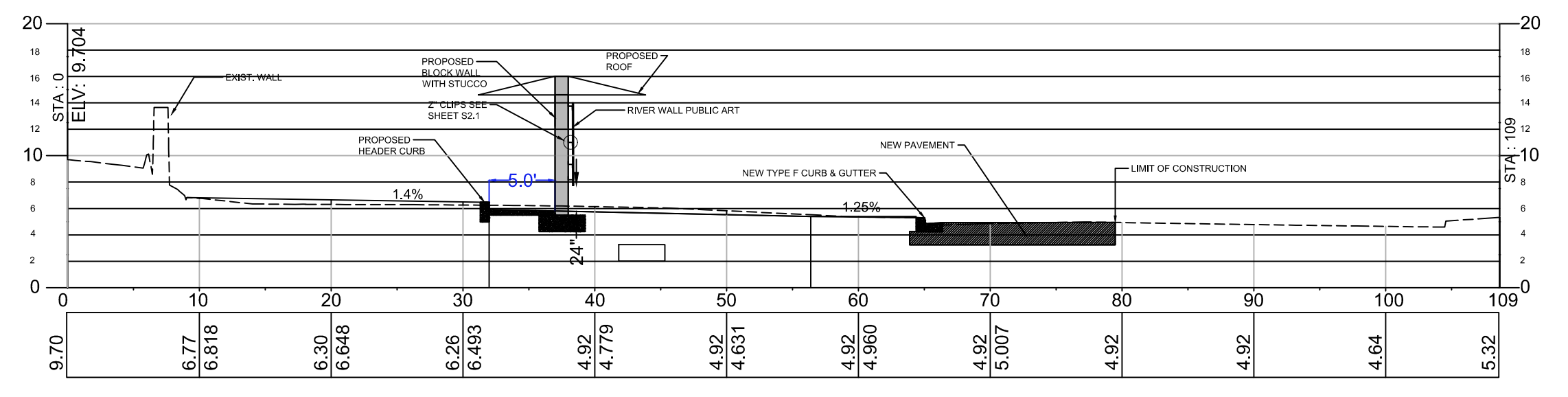
REVISIONS	INITIAL

SHEET NO  
C 8.0  
8 OF 15





1 PLAN VIEW  
 Scale: 1:1



2 RIVERWALL PLAZA SECTION A  
 Scale: 1:1

**PETER C OKONKWO**  
 Digitally signed by PETER C OKONKWO  
 Date: 2021.02.05 14:20:05 -05'00'  
 PETER C. OKONKWO, P.E.  
 FLA. REGISTRATION NO. 51459

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 1315 EAST LAFAYETTE STREET, SUITE B, Tallahassee, Florida, 32301  
 Tel: (850)-656-9834 Fax: (850)-942-2717

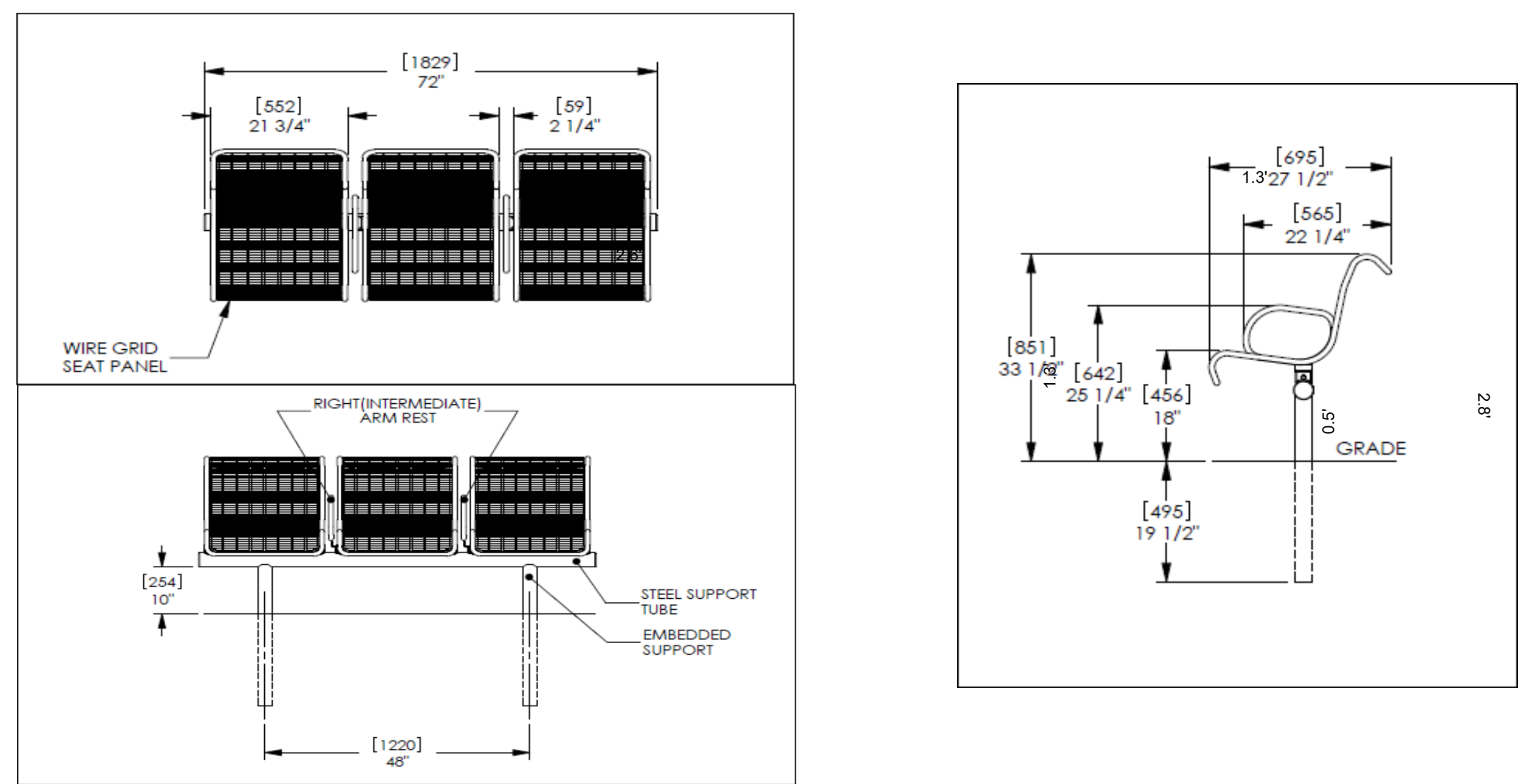
CLIENT:  
**CITY OF TAMPA**

PROJECT:  
**TAMPA RIVERWALL PLAZA**

SHEET TITLE:  
**CROSS SECTIONS**

DRAWN BY: FA	REVISIONS	INITIAL	SHEET NO
DATE: 10/10/2019			C9.0
DWG. NO.: 19-016			
APPVD. BY: PCO			
PROJ. NO. 19-016			
DWG. SECTION A			
SCALE: AS SHOWN			9 OF 15

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Product Drawing Date: 6/11/2010  
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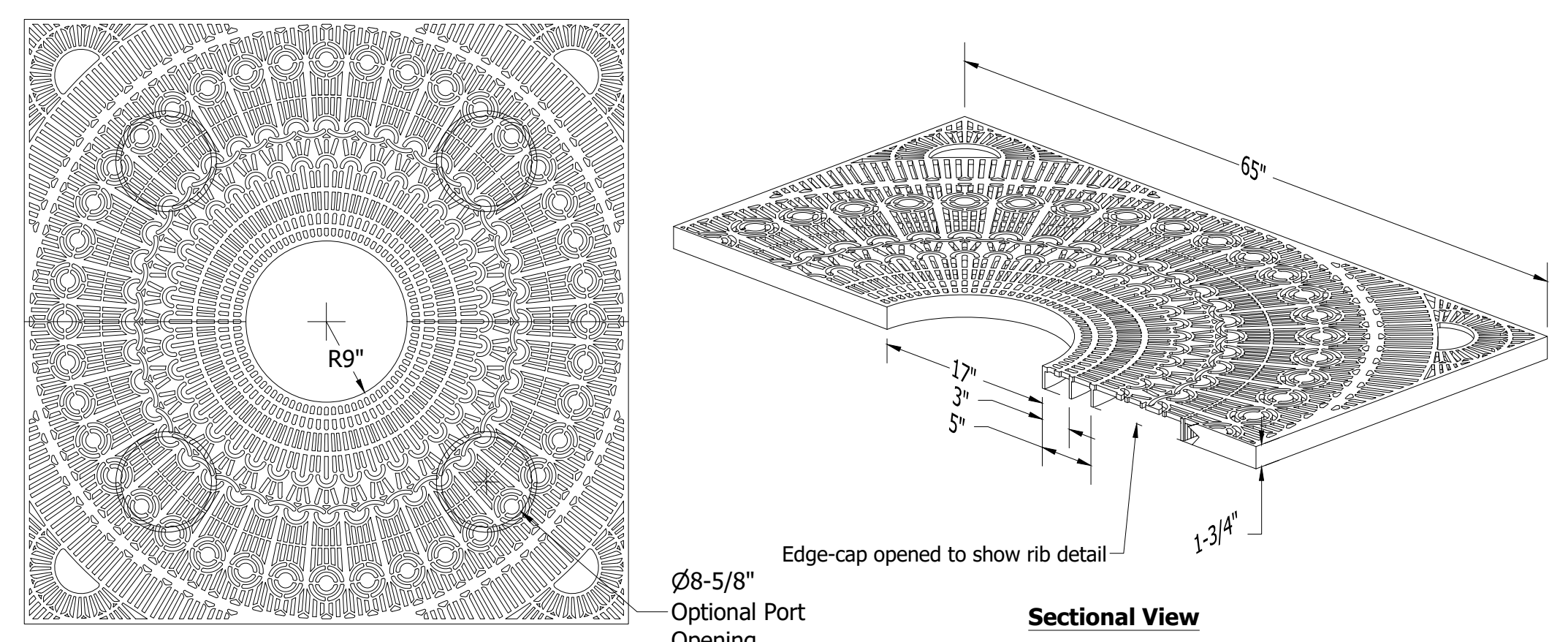


Drawing: LX223-32  
Dimensions are in inches [mm]

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Bench Detail

French Tree Grate - 5' Square  
TGFR-5-SQ



**Material Options:**  
> 100% recycled cast gray iron  
> Cast aluminum

**Finish Options:**  
> Natural raw (standard for cast iron)  
> Polyester powder coat (specify color)

> Breakout rings to expand opening at 22", 26"  
> Slot opening: 3/8" in compliance with ADA guidelines  
> Fits Canterbury 5' sq. angle steel frame  
> Optional lightports as shown  
> All dimensions nominal

**CANTERBURY DESIGNS**  
5632 W. Washington Blvd. | Los Angeles, CA 90016 | 323.936.7111  
Website: www.canterbury-designs.com | Email: info@canterbury-designs.com

*This drawing is the confidential property of Canterbury Designs, and the recipient agrees not to copy or disclose this drawing to any unauthorized person, or to use the drawing for any purpose other than that for which it is specifically furnished, without Canterbury's written permission.*

TREE GRATE DETAIL

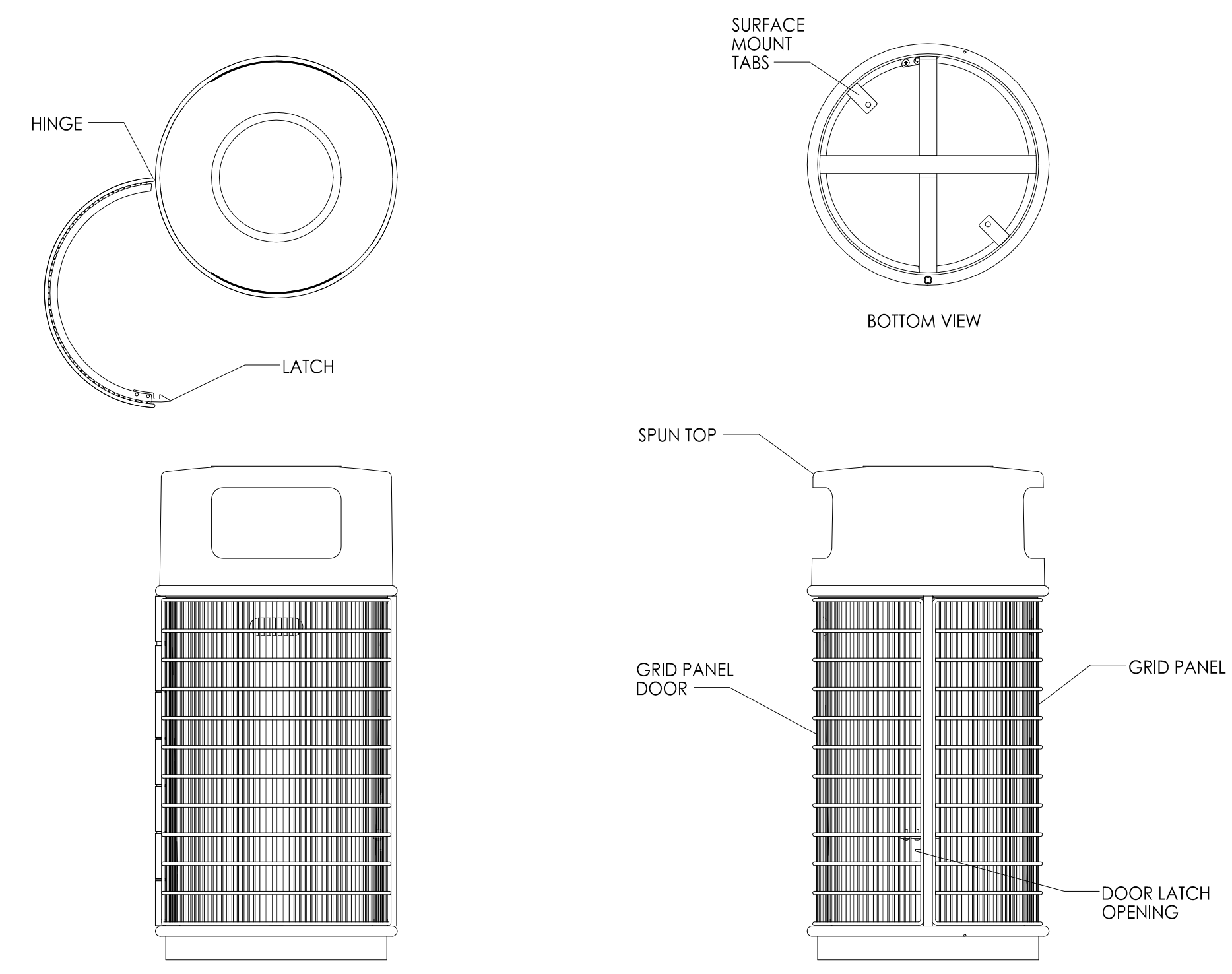
SUPPLEMENTAL MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION

THE MAINTENANCE OF TRAFFIC PLAN (MOT) IS PROVIDED ON SHEET C12.0 PER FDOT REGULATION AND STANDARDS. HOWEVER, THIS ADDITIONAL MOT DIRECTIVES IS BEING RECOMMENDED/PROVIDED TO SUPPLEMENT AND AID MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

1. INSTALL A LANE CLOSURE SIGNAGE AT OR NEAR THE INTERSECTION OF CHANNELSIDE DRIVE AND PLATT STREET BRIDGE.
2. INSTALL ADDITIONAL SIGNAGE AND FLAGGING AS REQUIRED BY FDOT.
3. USING APPROPRIATE SIGNAGE, CONES, ETC, CLOSE THE FARTHEST LEFT LANE ON CHANNELSIDE DRIVE UP TO AND CONNECTING TO THE PROPOSED CONSTRUCTION FENCE ALONG ASHLEY STREET.
4. LEFT TURNING VEHICLES ONTO ASHLEY STREET CAN USE SECOND NORTHERN LANE ALONG CHANNELSIDE TO THE SECOND OUTER LANE ON ASHLEY STREET.
5. ALTERNATIVELY, TRAFFIC CAN BE ROUTED EAST BOUND ALONG CHANNELSIDE; MAKE A TURN AT S. FRANKLIN HEADING NORTH. MAKE ANOTHER LEFT TURN AT THE LIGHT AT W. BROREIN STREET HEADING WEST TO ASHLEY STREET, AND SO ON.
6. CONTRACTOR TO PROVIDE MAINTENANCE OF TRAFFIC PLAN TO BE REVIEWED AND APPROVED BY THE ENGINEER AND OWNER.

NOTE: FOR ADDITIONAL MOT PLAN SEE SHEET C12.0

Plexus-II™ Litter Receptacle, 20in Dia / 30 Gallon Side Opening, Freestanding / Surface Mount, With Spun Top  
Product Drawing Date: 5/18/2010  
www.landscapeforms.com Ph: 800.521.2546



Drawing: LX253-02  
Dimensions are in inches [mm]

LITTER RECEPTACLE DETAILS

PETER C. OKONKWO  
Digitally signed by PETER C. OKONKWO  
Date: 2021.02.05 14:20:42 -05'00'

**SPECTRA ENGINEERING & RESEARCH, INC.**  
NBR# = LB5698 CA# = 5698  
CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address: Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: CITY OF TAMPA

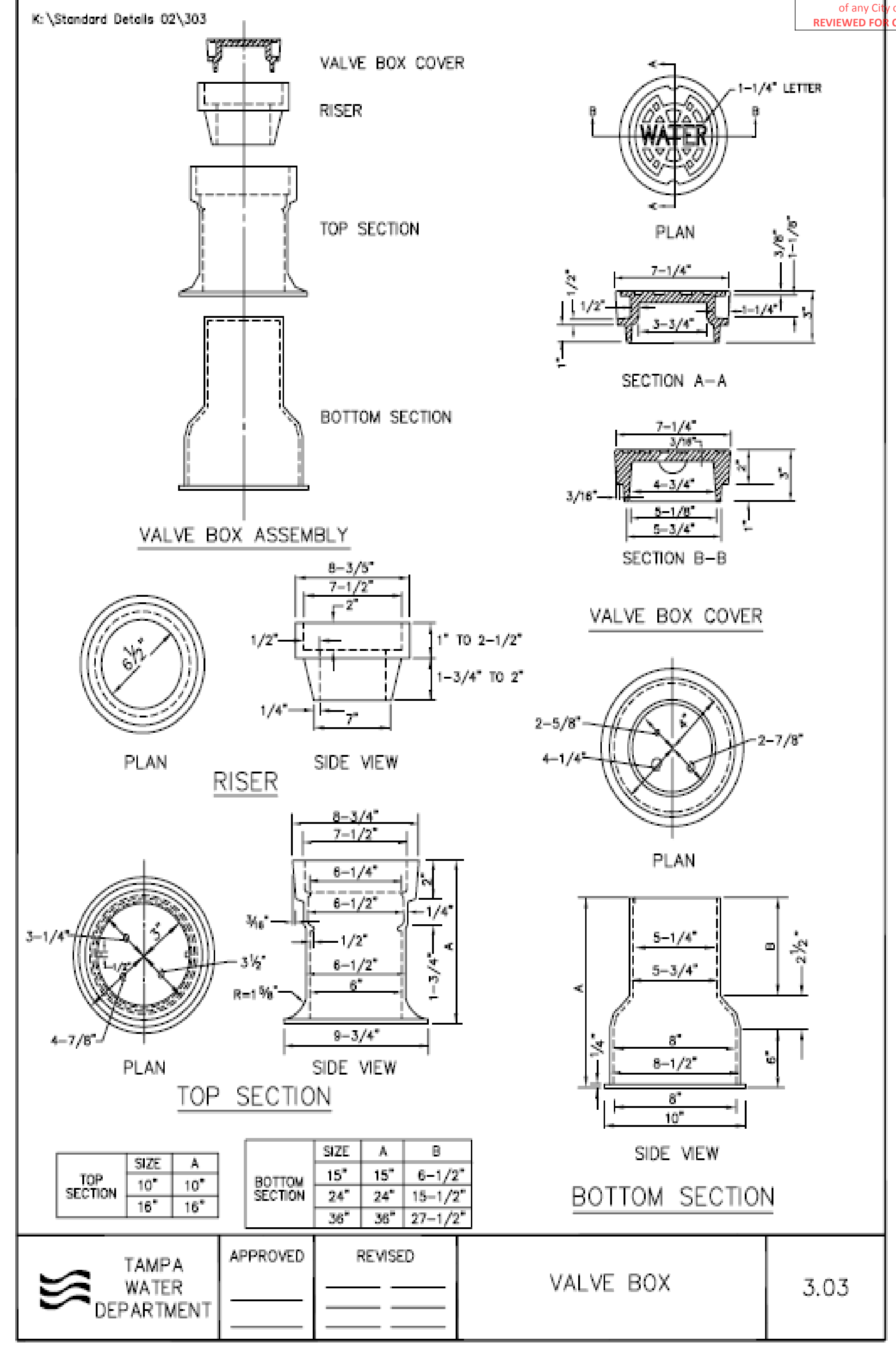
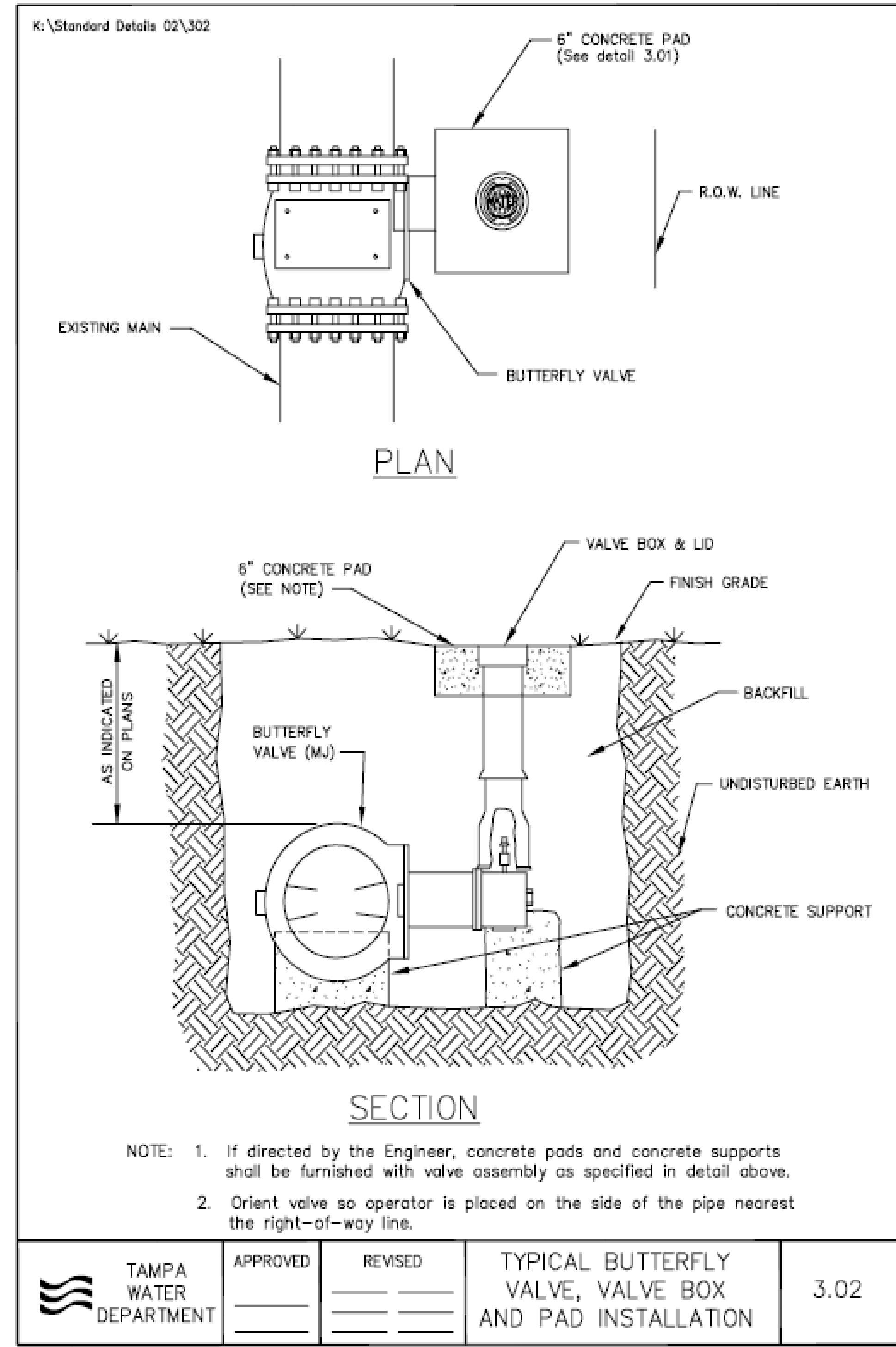
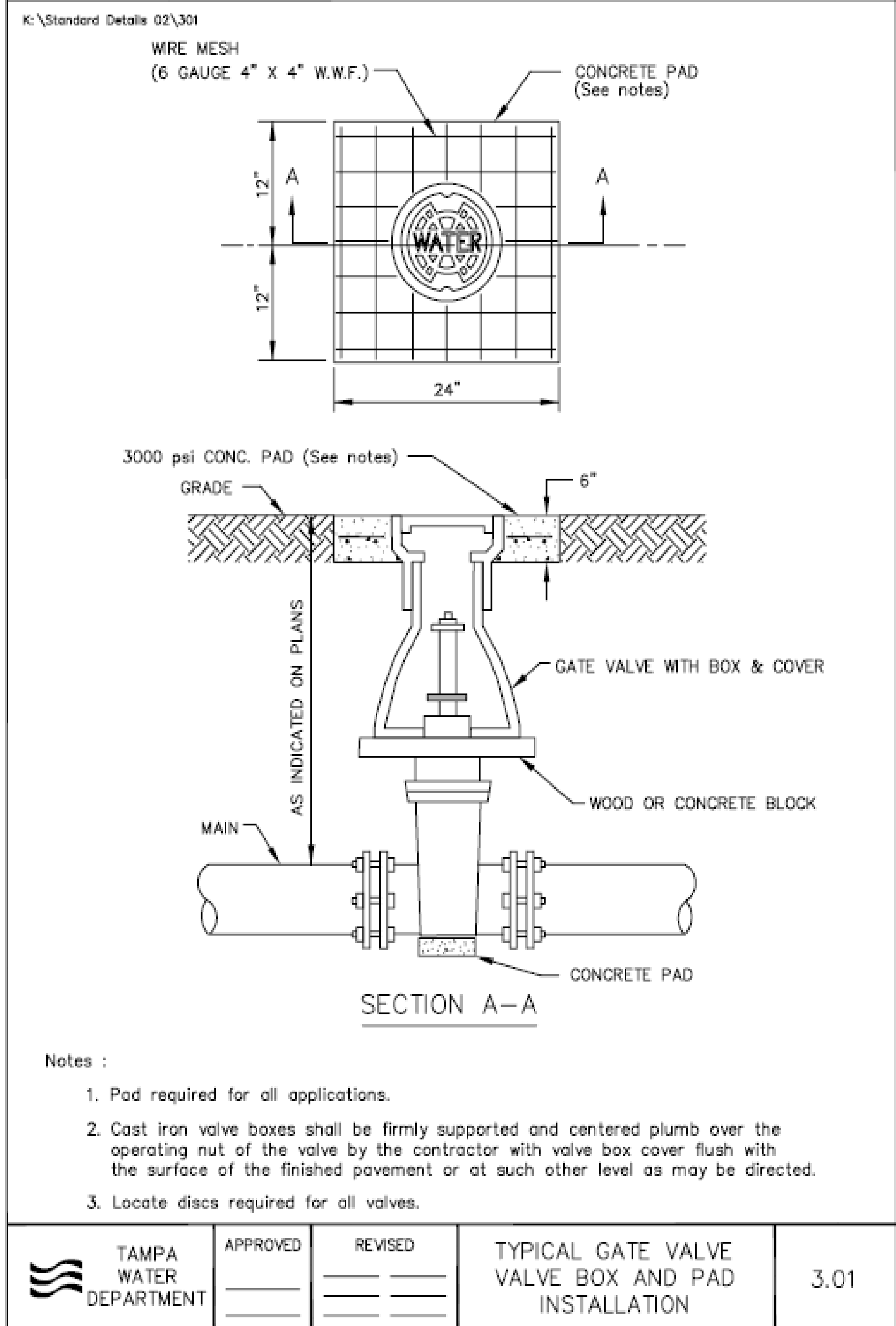
PROJECT: TAMPA RIVERWALL PLAZA

SHEET TITLE: SITE FURNISHING DETAILS

THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.  
PETER C. OKONKWO, P.E.  
FLA. REGISTRATION NO. 51459

DRAWN BY: FA  
DATE: 10/10/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. AUTOTURN  
SCALE: AS SHOWN

REVISIONS	INITIAL	SHEET NO
		C 10.0
		10 OF 15



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CLIENT: CITY OF TAMPA

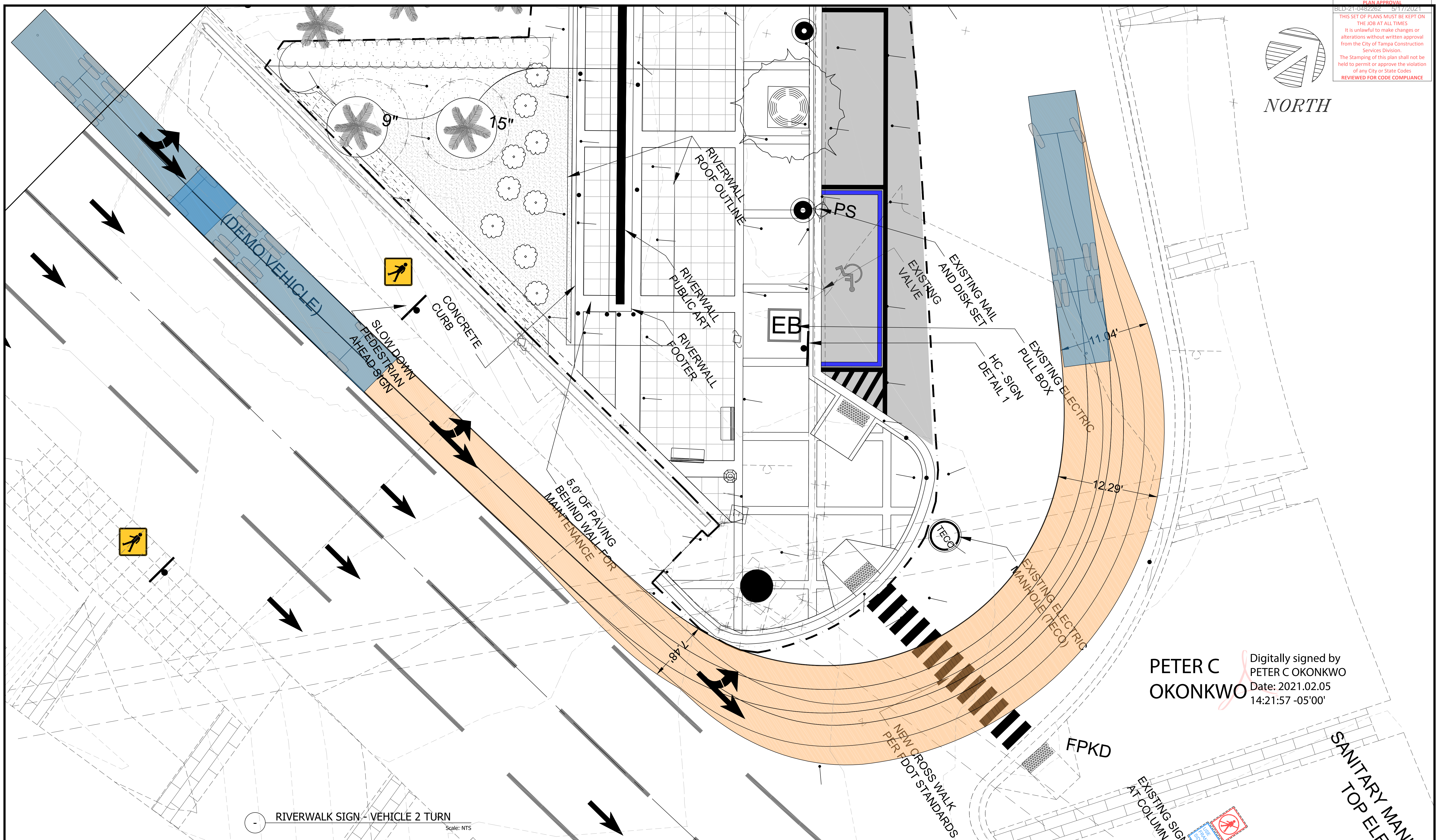
PROJECT: TAMPA RIVERWALL PLAZA

SHEET TITLE: WATER DETAILS

PETER C OKONKWO  
Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:21:18 -05'00'

DRAWN BY: FA  
DATE: 10/10/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. AUTOTURN  
SCALE: AS SHOWN

REVISIONS	INITIAL	SHEET NO
		C10.1
		12 OF 15



PETER C OKONKWO Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:21:57 -05'00'

RIVERWALK SIGN - VEHICLE 2 TURN  
Scale: NTS

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CLIENT: CITY OF TAMPA

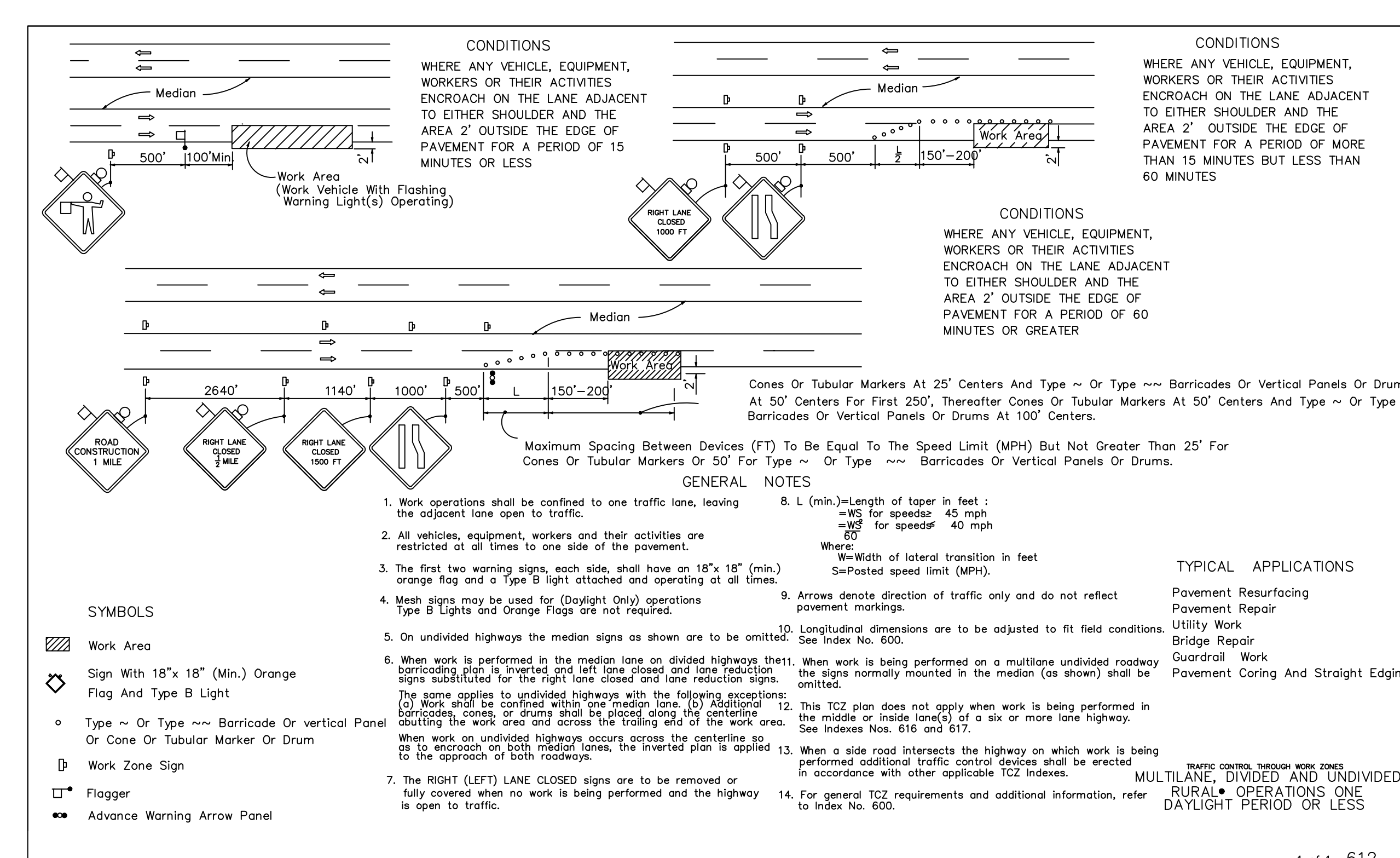
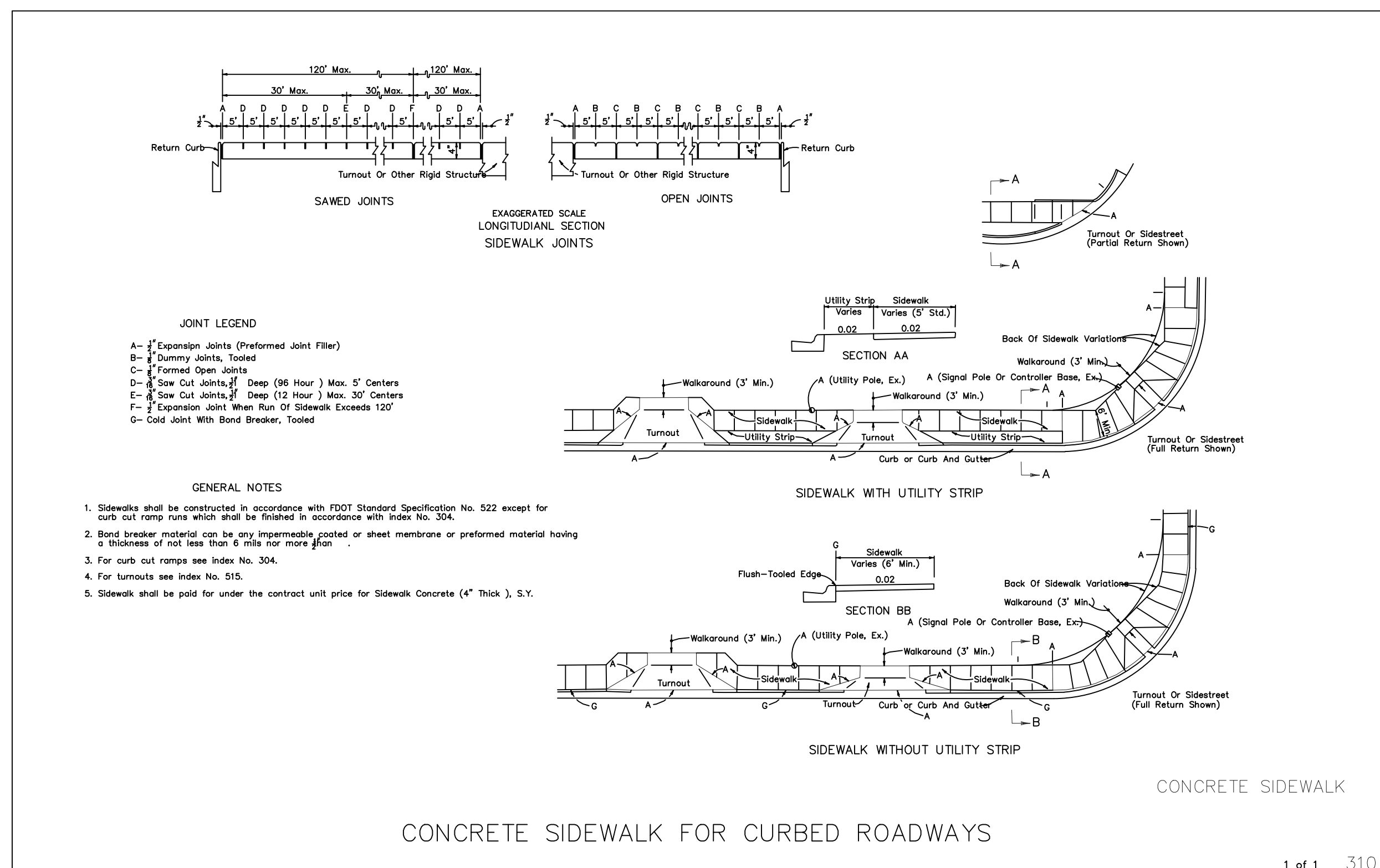
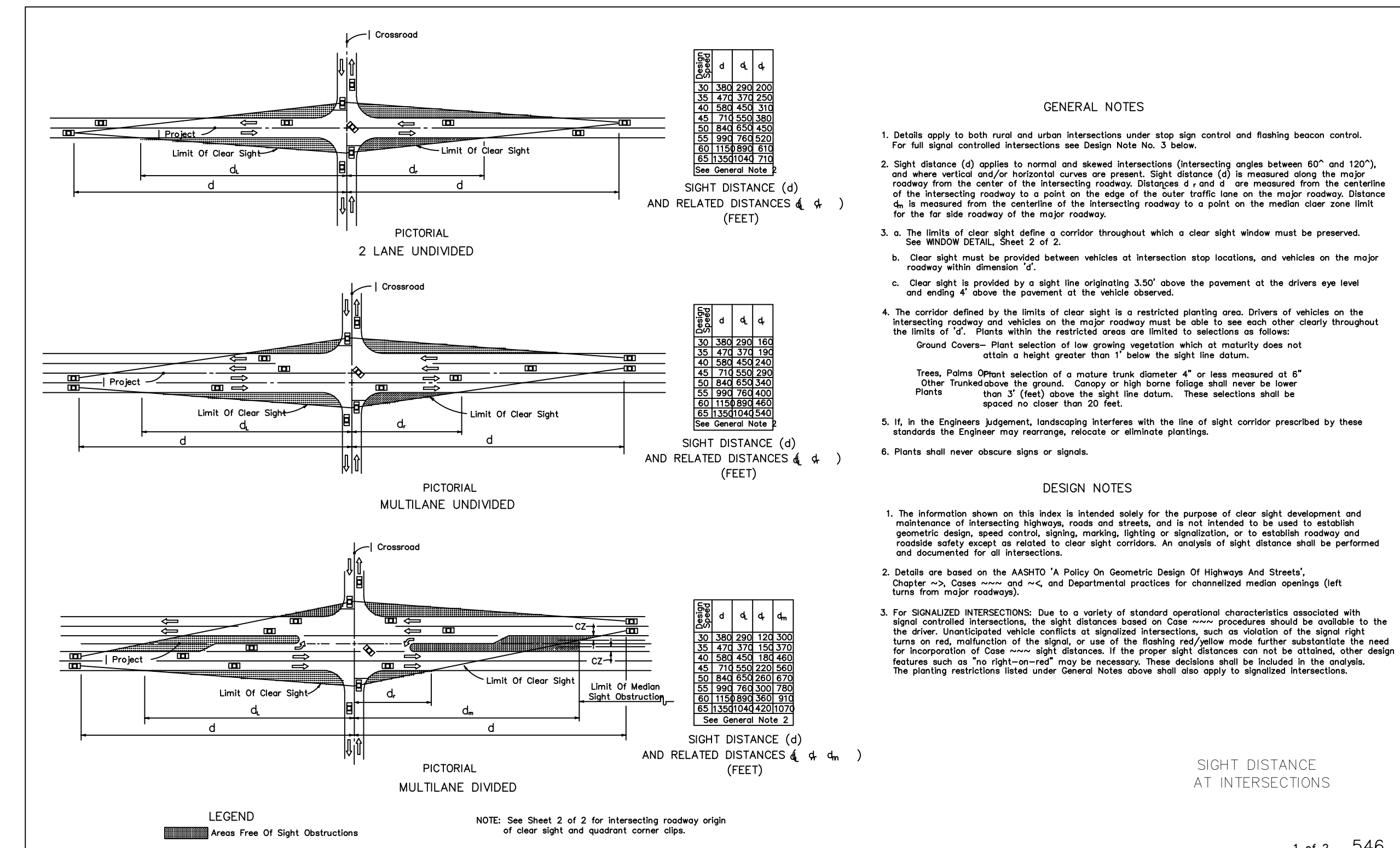
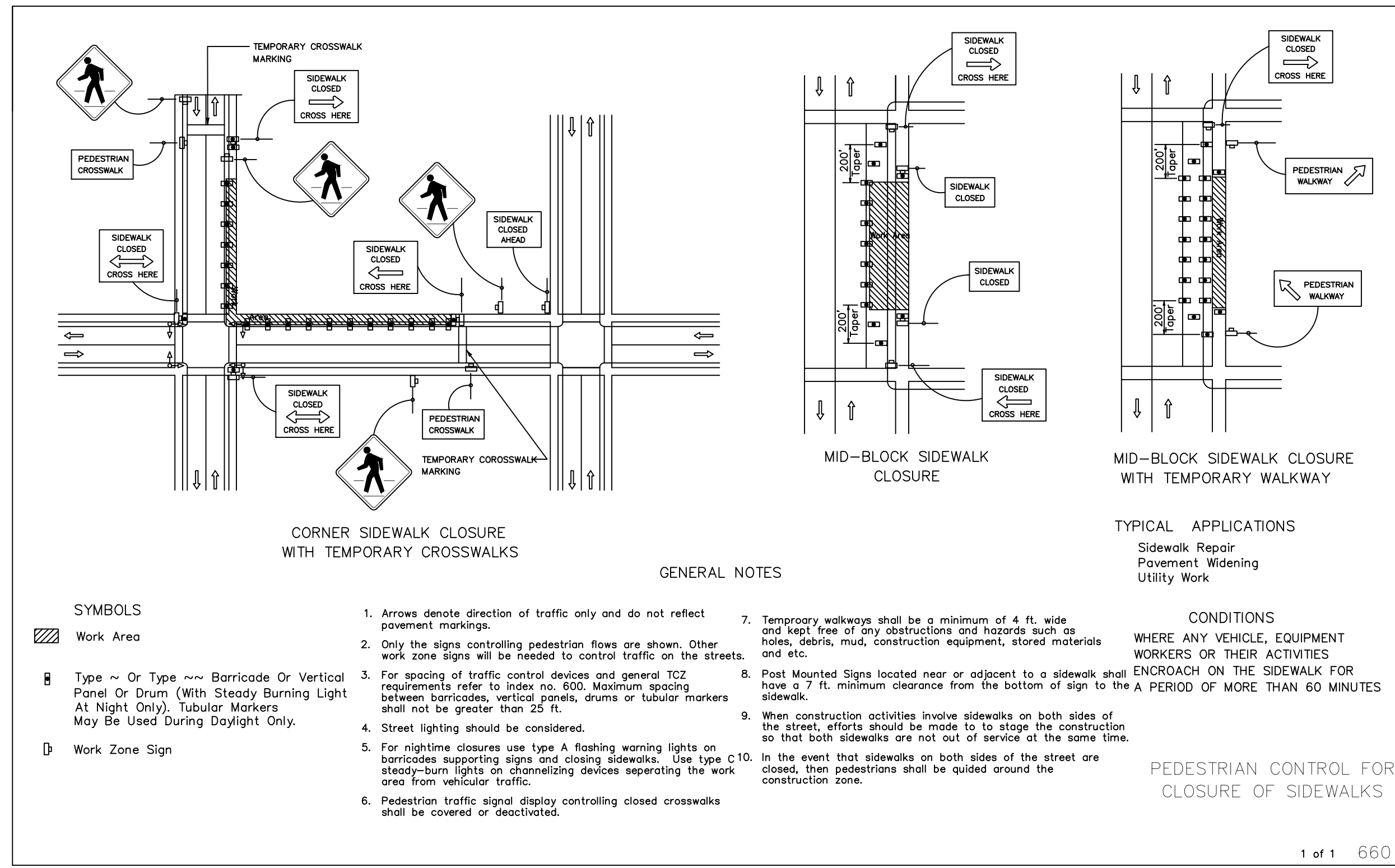
PROJECT: TAMPA RIVERWALL PLAZA

SHEET TITLE: VEHICLE TURN ANALYSIS (INNER LANE)

THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.  
PETER C. OKONKWO, P.E.  
FLA. REGISTRATION NO. 51459

DRAWN BY: FA  
DATE: 10/10/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. AUTOTURN  
SCALE: AS SHOWN

REVISIONS	INITIAL	SHEET NO
		C11.0
		11 OF 15



NOTE: FOR SUPPLEMENTAL MAINTENANCE OF TRAFFIC (MOT) DIRECTIVES SEE SHEET C10.0.

PETER C OKONKWO  
Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:22:31 -05'00'

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CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address: Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: **CITY OF TAMPA**

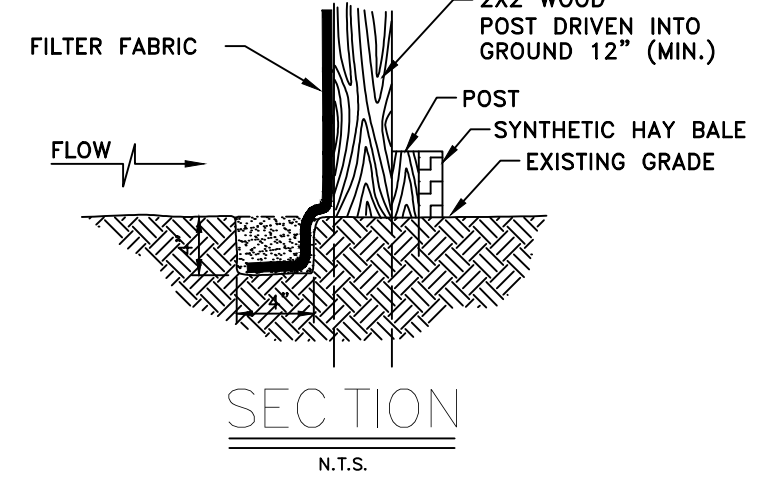
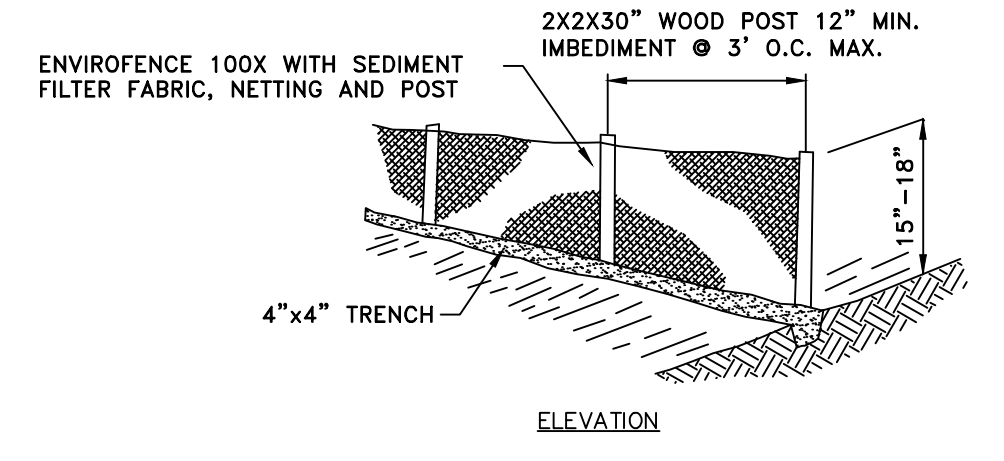
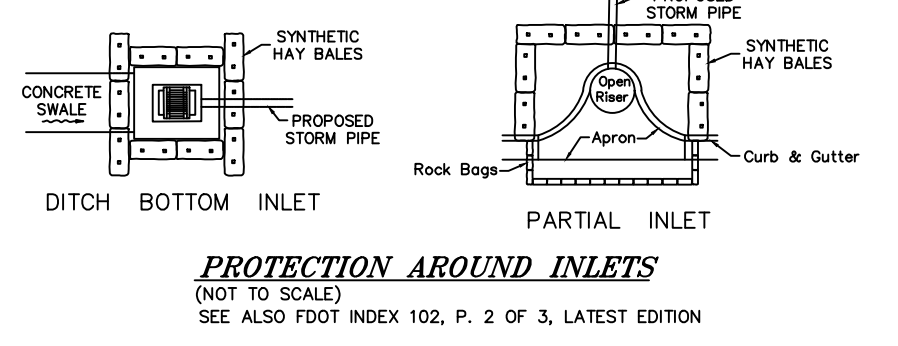
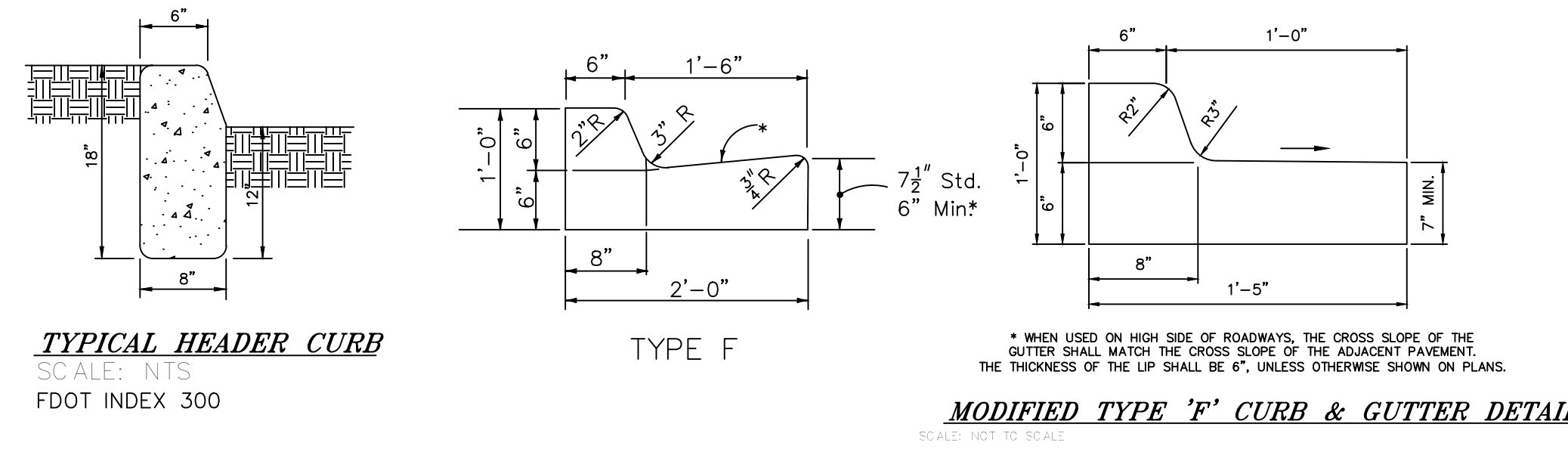
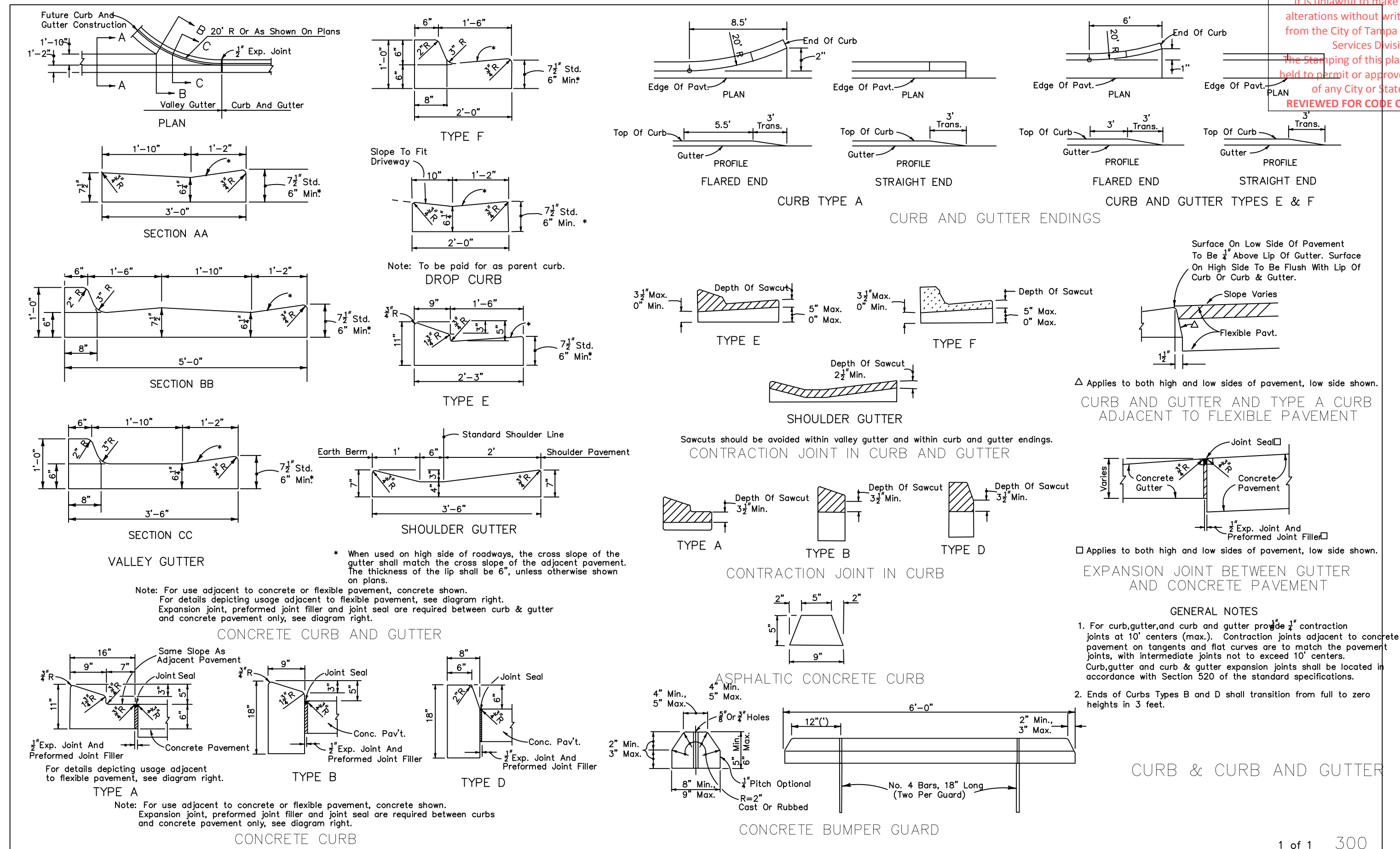
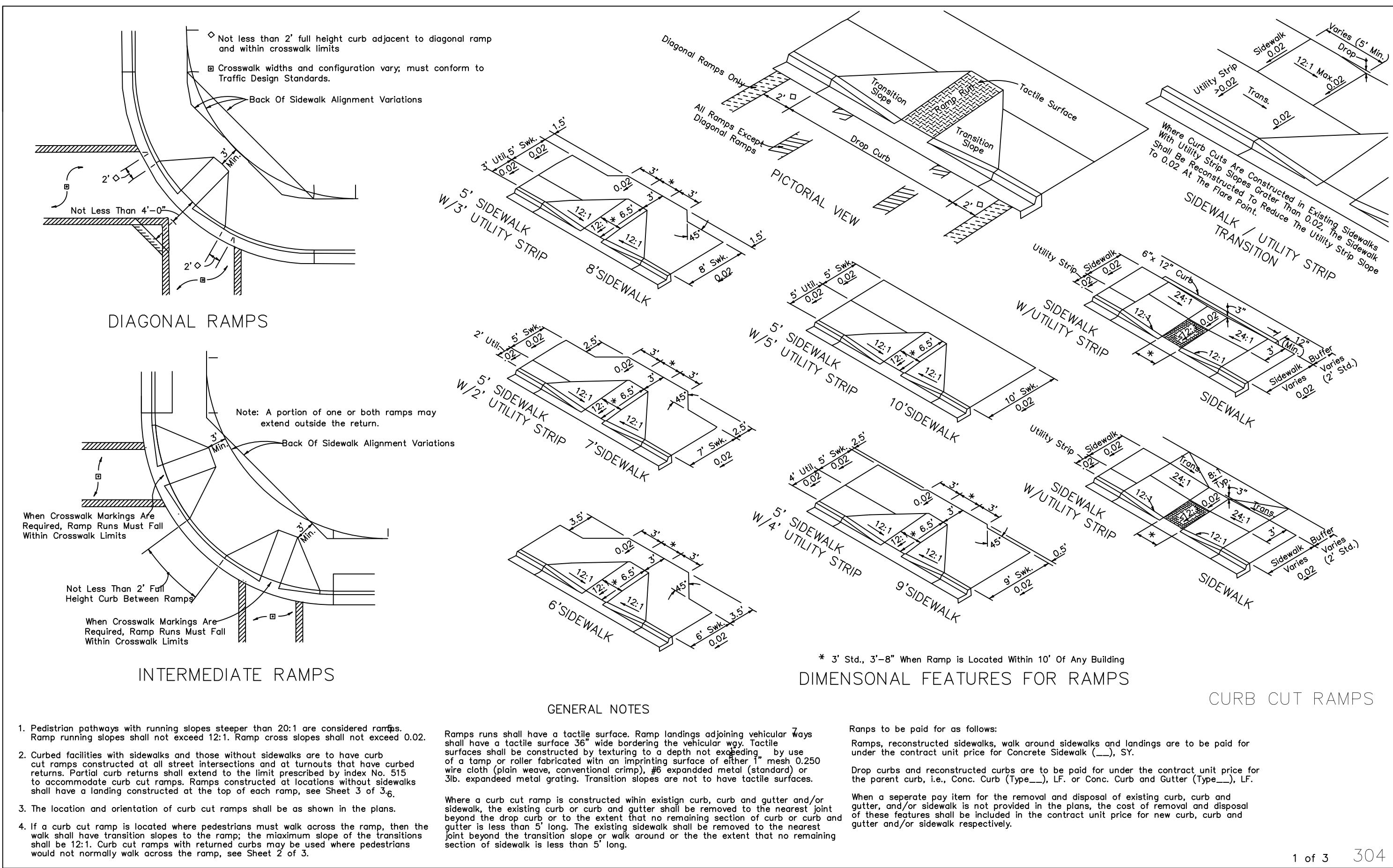
PROJECT: **TAMPA RIVERWALL PLAZA**

SHEET TITLE: **MAINTENANCE OF TRAFFIC**

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PETER C. OKONKWO, P.E.  
FLA. REGISTRATION NO. 51459

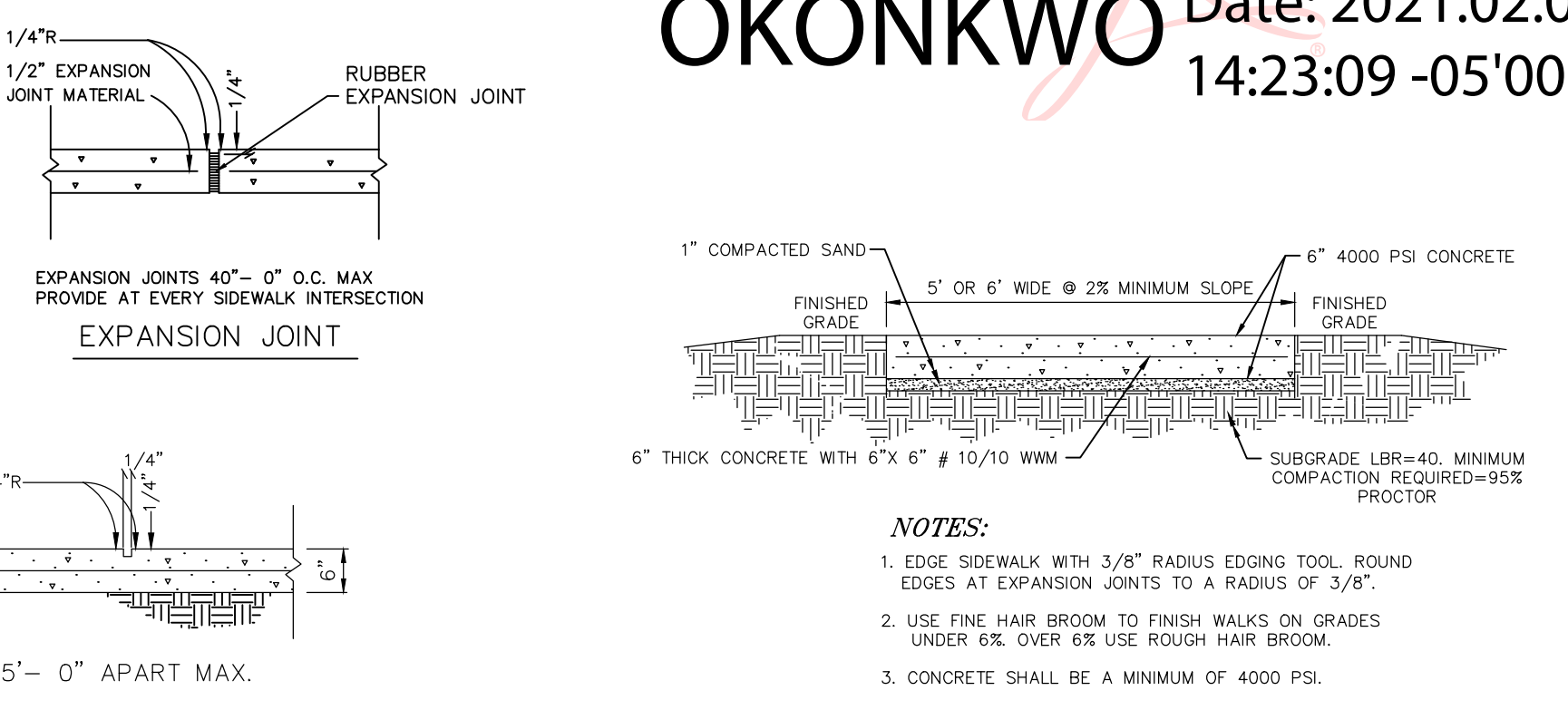
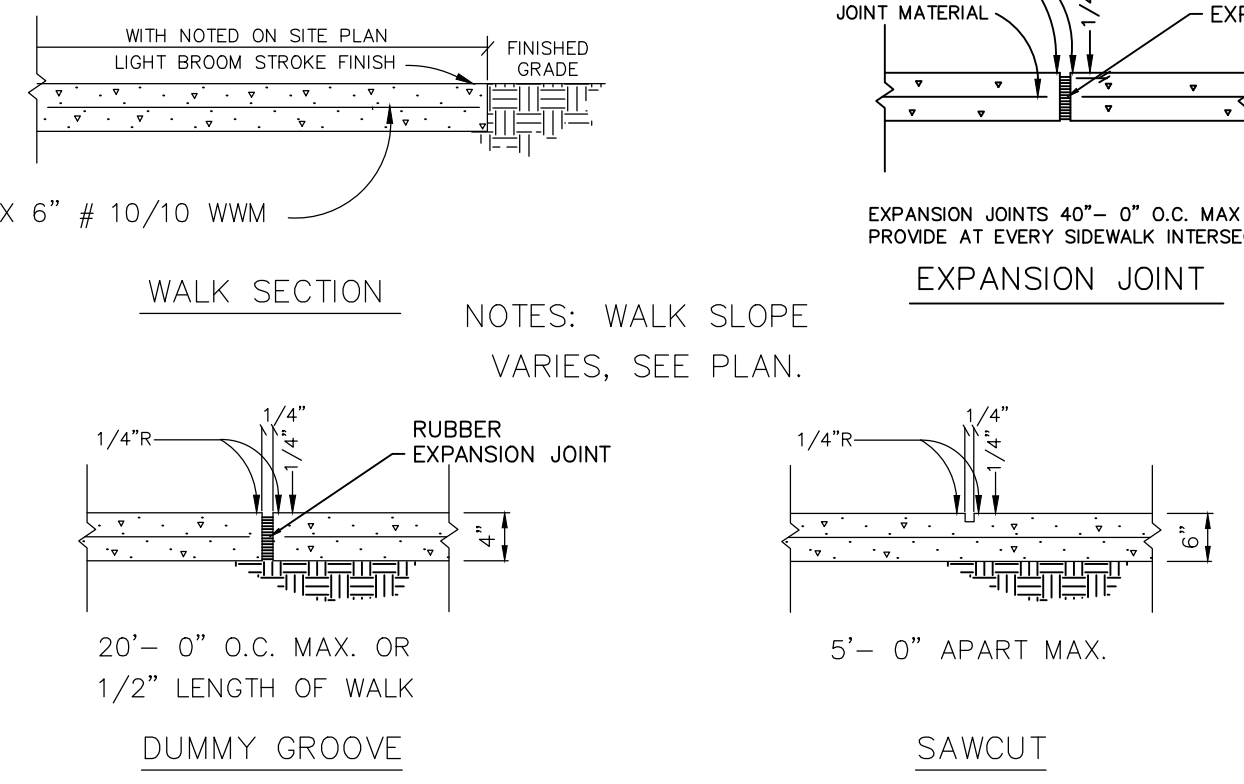
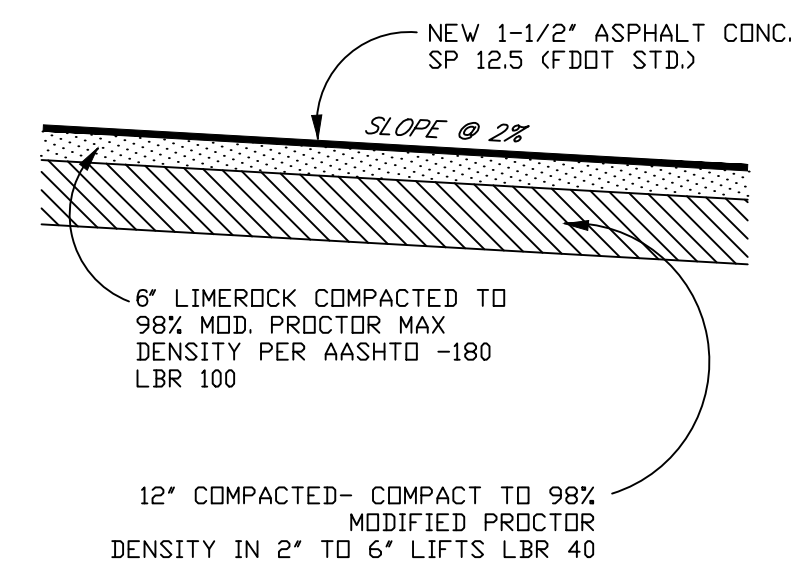
DRAWN BY: FA  
DATE: 10/10/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. AUTOTURN  
SCALE: AS SHOWN

REVISIONS	INITIAL	SHEET NO
		C12.0
		12 OF 15



**NOTE:**  
 USE LANDSCAPE FORMS PLEXUS II BENCH WITH INTERMEDIATE ARM RESTS TO MATCH BENCHES RECENTLY INSTALLED IN ADJACENT PARK. 3 SEATS, STRAIGHT ALIGNMENT. COLOR FINISH: SILVER METALLIC. EMBEDDED MOUNT.

**NOTE:**  
 USE MATCHING TRASH RECEPTACLE, PLEXUS LITTER, SIDE OPEN STYLE (SOLID LID), 20" X 40", EMBEDDED MOUNT. COLOR FINISH: SILVER METALIC



**PETER C OKONKWO**  
 Digitally signed by PETER C OKONKWO  
 Date: 2021.02.05 14:23:09 -05'00'

**SPECTRA ENGINEERING & RESEARCH, INC.**  
 NBR# = LB5698 CA# = 5698  
 CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
 Company Address: Tallahassee, Florida, 32301  
 Tel: (850)-656-9834 Fax: (850)-942-2717

**CLIENT:**  
 CITY OF TAMPA

**PROJECT:**  
 TAMPA RIVERWALL PLAZA

**SHEET TITLE:**  
 DETAILS AND NOTES

THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.  
 PETER C. OKONKWO, P.E.  
 FLA. REGISTRATION NO. 51459

<b>DRAWN BY:</b> FA	<b>REVISIONS</b>	<b>INITIAL</b>	<b>SHEET NO</b>
<b>DATE:</b> 10/10/2019			C13.0
<b>DWG. NO.:</b> 19-016			
<b>APPVD. BY:</b> PCO			
<b>PROJ. NO.:</b> 19-016			
<b>DWG. AUTOTURN</b>			
<b>SCALE:</b> AS SHOWN			13 OF 15

THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES. It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division. The stamping of this plan shall not be held to permit or approve the violation of any City or State Codes REVIEWED FOR CODE COMPLIANCE

**A. CONSTRUCTION NOTES**

I. MISCELLANEOUS

- A. THE CONTRACTOR SHALL BECOME FAMILIAR WITH, THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES, THE ENGINEER, AND THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN AN NECESSARY PERMITS PRIOR TO CONSTRUCT ION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
- B. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.
- C. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- D. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.

- C. E. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
- F. IT WILL BE NECESSARY TO EXAMINE , COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF THE ALL UNDERGROUND WORK ASSOCIATED WITH, IBIIS PROJECT.

II. SAFETY

- A. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- B. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED AND APPROVED BY HILLSBOROUGH COUNTY, FLORIDA DEPT. OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES
- C. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- D. CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH, ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- E. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
- F. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- G. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- H. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
- I. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE ONE AT 800-432-4770.
- J. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN IBIIS CONTRACT.
- K. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.

III. SITE PLAN AND COORDINATE GEOMETRY

- A-F. (NOT USED)
- G. ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DEPRECIATIONS DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
- H. MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE . IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE.
- I. ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM, (HILLSBOROUGH COUNTY BENCHMARK)
- J. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
- K. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH OWNER'S ENGINEER WITH COMPLETE "AS - BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS - BUILT" INFORMATION SHALL BE PRODUCED ON AUTOCAD , AND UPON COMPLETION CD'S ALL DRAWINGS, ONE SET OF REPRODUCIBLES, AND TWO SETS OF BLACK LINES . THE "AS - BUILT" INFORMATION SHALL CLEARLY AND ACCURATELY REPRESENT ALL CONSTRUCTED ITEMS INCLUDING, BUT NOT LIMITED TO:
  1. ELEVATIONS OF ALL STORM SEWER AND SANITARY SEWER STRUCTURE BOTTOMS, TOPS, AND INVERTS.
  2. FIELD MEASURED LENGTHS OF PIPES FOR ALL INSTALLED UTILITIES, CONDUITS, SLEEVES, ETC.
  3. LOCATIONS OF ALL STRUCTURES, PIPES, CONDUITS, SLEEVES, ETC.

4. CALCULATED SLOPE OF ALL SANITARY SEWER AND STORM SEWER LINES.
5. HORIZONTAL AND VERTICAL CONTROL OF ALL POTABLE AND IRRIGATION WATER THE TOP OF WATER MAINS AT ALL CROSSINGS, AND A MINIMUM OF EVERY 200 LINEAL FEET OF PIPE.
6. HORIZONTAL AND VERTICAL CONTROL OF ALL TOP OF BANKS, TOE OF SLOPES, ALL GRADE BREAKS, BUILDINGS, PONDS, DITCHES, LITTORAL ZONES. ETC.

NO ENGINEER'S CERTIFICATIONS CAN BE SUBMITTED TO OBTAIN A CERTIFICATE OF OCCUPANCY UNTIL TI-E "AS-BUILT" INFORMATION IS RECEIVED, REVIEWED, AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ALLOW THE ENGINEER A MINIMUM OF TWO WEEKS TO COMPLETE THE REVIEW OF THE " AS - BUILT " INFORMATION UPON RECEIPT, PRIOR TO SUBMITTAL TO HILLSBOROUGH COUNTY.

L. ALL DIMENSIONS SHOWN ON PLAN ARE TO FACE OF BUILDING, EDGE OF PAVEMENT OR CENTERLINE OF STRUCTURE, UNLESS NOTED OTHERWISE.

IV. CLEARING/DEMOLITION

- A. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AND DETAILS CONTAINED IN TI-ESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM HILLSBOROUGH COUNTY, THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT OR THE OWNER.
- B. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
- C. EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
- D. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF- SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS. OR AS DIRECTED BY OWNER.

V. PAVING AND GRADING

- A. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- C. ALL NECESSARY FILL AND EMBANKMENT MATERIAL IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT.
- D. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- E. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT .
- F. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.)
- G. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF- SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH, TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
- H. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
- I. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD OR OTHER APPROVED MATERIALS AS REQUIRED BY ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS.
- J. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE SOILS TESTING. TESTS WILL BE REQUIRED PURSUANT WITH THE TESTING SCHEDULE LOCATED ON TABLE SC- 1 (THIS SHEET). UPON COMPLETION OF THE WORK, SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
- K. A QUALIFIED TESTING LABORATORY SELECTED BY THE OWNER SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING.
- L. MIXING INPLACE OF SOIL CEMENT WILL NOT BE ALLOWED.

VI. DRAINAGE

- A. STANDARD INDEXES REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS".
- B. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.
- C. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO CENTER OF DRAIN AGE STRUCTURE WITH, THE EXCEPTION OF MES AND FES WHICH ARE NOT INCLUDED IN LENGTHS.
- D. ALL DRAIN AGE STRUCTURE GRATES AND COVERS SHALL BE TRAFFIC RATED FOR H - 20 LOADINGS.
- E. ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER AND HILLSBOROUGH COUNTY 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.
- F. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAIN AGE SYSTEM UNTIL FINAL ACCEPTANCE OF TI-E PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR TI-ESE PURPOSES.

IX. EROSION/ TURBIDITY CONTROL (SWFWMD NOTES)

- A. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.

- B. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORM WATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.

- C. CONSTRUCTION OPERATIONS IN OR ADJACENT TO WETLANDS SHALL BE RESTRICTED TO THOSE AREAS IDENTIFIED IN THE PLANS AND IN THE SPECIFICATIONS.

- D. EXCEPT AS NECESSARY FOR CONSTRUCTION, EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN THE WETLANDS OR IN A POSITION CLOSE ENOUGH THERE TO TO BE WASHED AWAY BY HIGH WATER OR RUNOFF.

- E. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE AND ARE NOT LIMITED TO. TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS, SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.

- F. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED. UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.

- G. THE CONTRACTOR AND/OR OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.

- H. PLAN CONFLICTS, SHOWN OR NOT SHOWN, WITH OTHER EXISTING SITE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ADJUSTMENTS AND PROTECT OR REINSTALL ALL EXISTING UTILITIES, PHONE LINES, POWER LINES, POWER SUPPORT CABLES, SPRINKLER LINES AND CONTROLS, MECHANICAL PIPELINES OR UNDERGROUND POWER CABLES AND RETURN EXISTING CONCRETE WALKS, DUMPSTER PADS, FENCE, HANDRAIL, VALVES HYDRANTS, GUY WIRES, ELECTRIC BOXES AND PIPELINES WHICH SHALL BE REPAIRED OR REINSTALLED AS INCIDENTAL TO THE COST OF THE WORK SHOWN HEREUNDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE ANY CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.

- I. REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE DEVICES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AS PROVIDED BY CHAPTERS 400 - 4 & 400-40 F.A.C. INITIATION OF CIVIL PENALTY PROCEDURES PURSUANT TO SECTION 373.129. F.A.C. CAN RESULT IN A PENALTY NOT TO EXCEED \$10,000 PER OFFENSE WITH EACH DATE DURING WHICH SUCH VIOLATION OCCURS CONSTITUTING AN OFFENSE.

**MAINTENANCE AND OPERATIONS INSPECTION FOR STORM WATER MANAGEMENT FACILITY**

1. ALL SODDED AREAS SHALL BE MOWED AND MAINTAINED PROPERLY.
2. UNDER NO CIRCUMSTANCES SHALL THE STORM WATER MANAGEMENT FACILITY BE FILLED WITH ANY OTHER SUBSTANCE THAN STORM WATER.
3. SWALE AREAS SHALL BE KEPT CLEAN AND FREE FROM ANY OBSTRUCTIONS
4. IF DAMAGE TO THE SYSTEM DOES OCCUR, THE SYSTEM SHALL BE RECONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLAN

PETER C. OKONKWO Digitally signed by PETER C. OKONKWO

OKONKWO  
Date: 2021.02.05  
14:24:20 -05'00'  
PETER C. OKONKWO, P.E.  
FLA. REGISTRATION NO. 51459

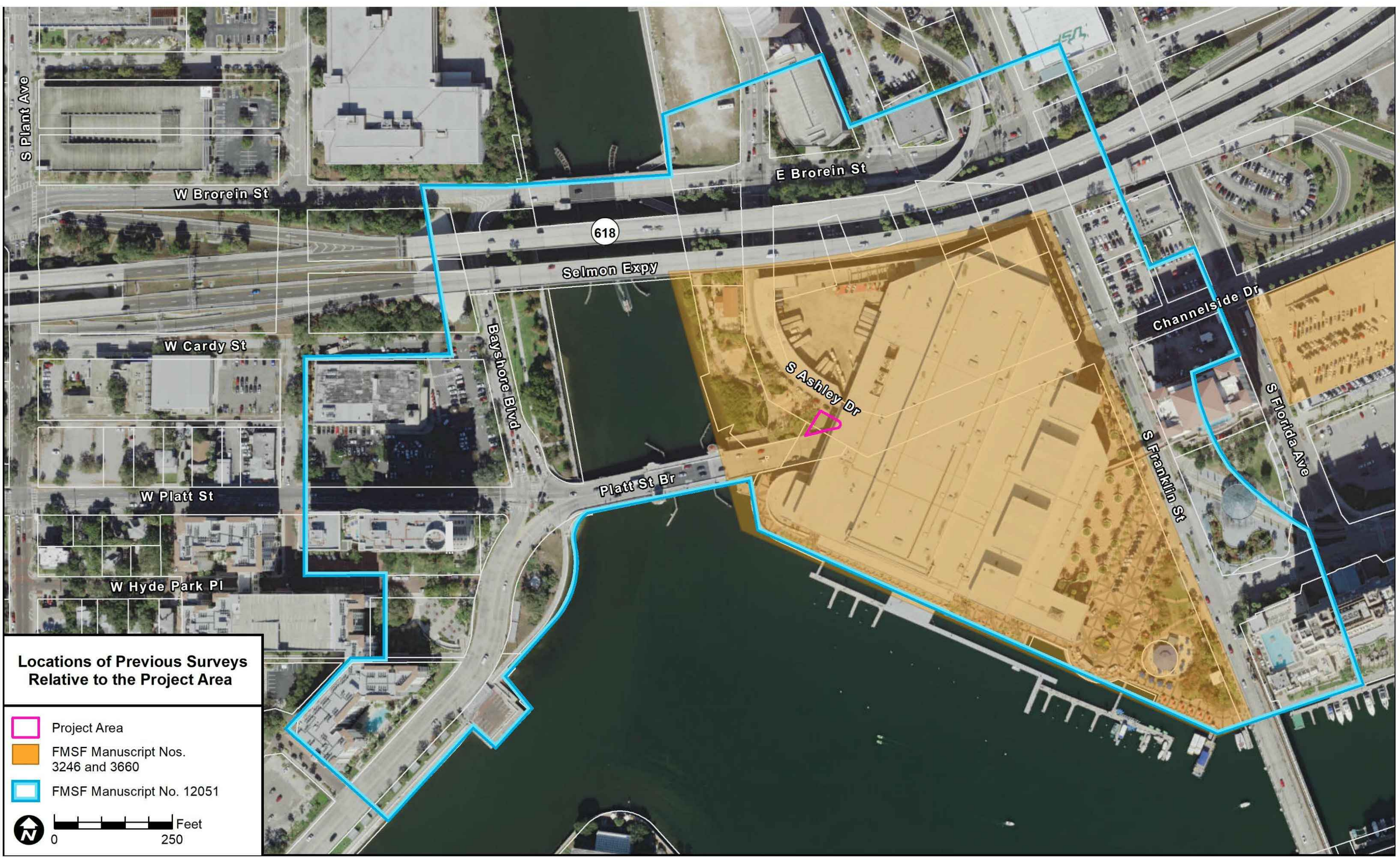
**SPECTRA ENGINEERING & RESEARCH, INC.**  
NBR#=LB5698 CA# =5698  
CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address: Tallahassee, Florida 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT:  
**CITY OF TAMPA**

PROJECT:  
**TAMPA RIVERWALL PLAZA**

SHEET TITLE:  
**NOTES**

<b>DRAWN BY:</b> FA	<b>REVISIONS</b>	<b>INITIAL</b>	<b>SHEET NO</b>
<b>DATE:</b> 10/10/2019			<b>C14.0</b>
<b>DWG. NO.:</b> 19-016			
<b>APPVD. BY:</b> PCO			
<b>PROJ. NO.:</b> 19-016			
<b>DWG. AUTOTURN</b>			
<b>SCALE:</b> AS SHOWN			
			<b>14 OF 15</b>



**Locations of Previous Surveys Relative to the Project Area**

- Project Area
- FMSF Manuscript Nos. 3246 and 3660
- FMSF Manuscript No. 12051

0 250 Feet

JANUS MAIN OFFICE  
1107 N. Ward Street  
Tampa, FL 33607

**JANUS RESEARCH**  
EST. 1979

Tampa Bay • Miami • Ft. Myers • Atlanta

Tel: 813.636.8200  
Fax 813.636.8212  
janus@janus-research.com

December 18, 2019

Mr. Tomas A. Hester, Sr., AIA  
Project Architect  
Contract Administration Department, Planning and Design Division  
City of Tampa  
306 E. Jackson Street, 4N  
Tampa, FL 33602

Re: Archaeological Desktop Review of the Riverwall Plaza in Tampa, Florida

Dear Mr. Hester,

At the request of the City of Tampa, Janus Research conducted an archaeological desktop review of the proposed Riverwall Plaza (project area) in the Tampa Central Business District (CBD) (Attachments 1 and 2). The project area consists of a small triangular area of hardacre (approximately 0.04 acre [1,872 square feet]) located near 239 S. Ashley Drive in Section 24 of Township 29 South, Range 18 East, on the Tampa (1956 Photorevised 1981) United States Geological Survey (USGS) quadrangle map.

This review was conducted to assist in complying with the requirements of Section 4N (page 9) of the City of Tampa Ordinance 8249 which specifies a project-by-project assessment by professional archaeologists to ensure that no adverse impacts to significant archaeological resources will result from planned construction. These stipulations can be found on pages 29-30 and A5-A7 of the ADA/DR, and in Section 4N (page 9) of the City of Tampa Ordinance 8249. The project methodology is intended to comply with the City of Tampa's requirement for archaeological investigations. The objective of this review was to identify the level of effort needed to satisfy the City of Tampa requirements.

A review of the Florida Master Site File (FMSF) geographic information systems (GIS) data indicated the project area is entirely within the boundaries of three cultural resource survey reports. These reports are listed on the following page and the locations of these surveys relative to the project area are shown in Attachment 3.

- Archaeological Desktop Review of the Riverwall Plaza in Tampa, Florida  
Hillsborough County  
December 18, 2019  
Page 2
- Archaeological Investigations at the Site of the Tampa Convention Center, Tampa, Florida Volume 1, Prehistoric Resources Including a Report on the Mitigative Excavation of a Prehistoric Aboriginal Cemetery (Janus Research/Piper Archaeology 1991; FMSF Manuscript No. 3246);
  - Archaeological Investigations at the Site of the Tampa Convention Center, Tampa, Florida Volume 2, Historic Resources, Excavations at Fort Brooke (Janus Research/Piper Archaeology 1991; FMSF Manuscript No. 3660); and
  - Cultural Resource Assessment Survey for the Platt Street (Channelside) Bridge PD&E Study, Tampa, Hillsborough County, Florida (Janus Research 2005; FMSF Manuscript No. 12051).

Although the investigations of the Tampa Convention Center identified significant precontact, Fort Brooke, and early historic period archaeological resources, these resources were located to the east of the Riverwall Plaza project area and were subjected to mitigative excavations. The Florida State Historic Preservation Office (SHPO) and Florida Division of Historical Resources (FDRH) concurred with the findings of the archaeological investigations and determined the excavations adequately mitigated any adverse effects to archaeological resources at the site of the Tampa Convention Center (Attachment 4). Archaeological testing was not conducted within the Riverwall Plaza project area during the survey of the Platt Street (Channelside) Bridge Project Development and Environment (PD&E) Study as this area was within the previously investigated Tampa Convention Center site. The SHPO concurred with the results of the survey in a letter dated July 5, 2009 (Attachment 4).

Based on the results of the previous surveys, and the current FMSF search, no further archaeological investigations are recommended to satisfy the City of Tampa requirements. If unanticipated archaeological discoveries are encountered, it is recommended that work in the immediate area of the discovery be suspended and an archaeologist retained to evaluate the find. Should human remains be found during construction or maintenance activities, Chapter 872.05 of the Florida Statutes (F.S.) will apply. Chapter 872.05, F.S. states that, when human remains are encountered, all activity that might disturb the remains shall cease and may not resume until authorized by the District Medical Examiner or the State Archaeologist. The District Medical Examiner has jurisdiction if the remains are less than 75 years old or if the remains are involved in a criminal investigation. The State Archaeologist may assume jurisdiction if the remains are 75 years of age or more.

If you have any questions or need additional information, please feel free to contact me via email at kate\_hoffman@janus-research.com or by telephone at (813) 636-8200.

Sincerely,  
Kathleen S. Hoffman

Kathleen S. Hoffman, Ph.D.  
Vice President

www.janus-research.com

www.janus-research.com

FLORIDA DEPARTMENT OF STATE  
Glenda E. Hood  
Secretary of State  
DIVISION OF HISTORICAL RESOURCES

12051



FLORIDA DEPARTMENT OF STATE  
Secretary of State  
DIVISION OF HISTORICAL RESOURCES  
R.A. Gray Building  
800 South Bronough  
Tallahassee, Florida 32399-0250

October 11, 1993  
Mr. Robert J. Austin  
Janus Research/Piper Archaeology  
P.O. Box 919  
St. Petersburg, Florida 33731

In Reply Refer To:  
Denise M. Breit  
Historic Sites  
Specialist  
(904) 487-2333  
Project File No. 932873

RE: Cultural Resource Assessment Review Request  
Archaeological Investigations at the Site of the Tampa Convention Center, Tampa, Florida; Volume 2 - Historic Resources, Excavations at Fort Brooke. By Robert J. Austin, August 1993.

Dear Mr. Austin:

In accordance with this agency's responsibilities under Section 380.06, Florida Statutes, we have reviewed the results of the field survey of the above referenced project, and find them to be complete and sufficient.

We note that the Bay Cadillac Lot, Salvation Army Lot, City Surveyor's Lot, U. S. Customs House Lot, and the South Regional Parking Facility were subjected to shovel testing, excavation, monitoring, and/or backhoe trenching. Several features were encountered which dealt with either the Fort Brooke component of the site or with a post-military occupation of the area. It is the opinion of this agency that the methods employed (described above) during the investigations and the data recovered are sufficient to have adequately mitigated adverse project impacts to the Fort Brooke site which will be caused by construction of the Tampa Convention Center and its associated parking facility.

If you have any questions concerning our comments, please do not hesitate to contact us. Your interest in protecting Florida's historic properties is appreciated.

Sincerely,  
George W. Percy, Director  
Division of Historical Resources

GWP/bdb  
xc: Suzanne Cooper, TBRPC  
Archaeological Research (904) 487-2299  
Florida Folklore Programs (904) 397-2192  
Historic Preservation (904) 487-2333  
Museum of Florida History (904) 488-1884

Mr. Robert S. Wright  
July 5, 2005  
Page 2

Both the Platt Street Bridge (SH1862) as well as the Bayshore Boulevard Balustrade and Sawmill (SH19700) were determined to be potentially individually eligible for NRHP listing. The remaining six seven resources (SH11664, SH13055, SH19699, SH19702-9703) were considered to be ineligible for listing.

Our office concurs that the Platt Street Historic District, the Platt Street Bridge, and the Bayshore Boulevard Balustrade and Sawmill are potentially eligible for listing. Based on the information contained in the survey report, we also conclude that the Jose Gasparilla (SH19705) is potentially individually eligible for listing due to its importance to the social history and recreation/entertainment of Tampa. The remaining five six resources (SH11664, SH13055, SH19699, SH19702-9704) are ineligible.

The Federal Highway Administration determined that the proposed undertaking would have an effect on resources listed, or considered eligible for listing in the NRHP. We concur with this determination and look forward to further consultation with your office regarding effects.

If you have any questions concerning our comments, please contact Sherry Anderson, Architectural Historian, Transportation Compliance Review Program, at 850-245-6432 or by electronic mail at sanderson@dos.state.fl.us.

Sincerely,  
Sherry Anderson  
Deputy SHPO for Survey & Registration  
Frederick P. Gaska, Director, and  
State Historic Preservation Officer

XC: Mr. Rick Adair, FDOT, District Seven  
Mr. Tom McLaughlin, Hillsborough County Public Works Dept.  
Mr. Ken Hardin, Janus Research

Mr. Robert S. Wright  
U.S. Department of Transportation  
Federal Highway Administration, Florida Division  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

RE: DHR Project File Number: 2005-4363  
Received by DHR: April 29, 2005  
Financial Management #: 415337-1  
Federal-aid Project #: 4047 (138)  
Project: Cultural Resource Assessment Survey for Platt Street Bridge PD&E Study from Parker Street to Florida Street  
County: Hillsborough

Dear Mr. Wright:

We have written this letter to correct an error noted in our previous letter dated June 13, 2005 in which we referenced SH11050 as being ineligible for listing. As you are already aware, this resource is the Hyde Park Historic District and is currently listed in the National Register of Historic Places. The text below noted with italics and strikethroughs reflects this correction.

Our office received and reviewed the above referenced project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended, 36 CFR Part 800: Protection of Historic Properties, Chapter 267, Florida Statutes, and applicable local ordinances. It is the responsibility of the State Historic Preservation Officer to advise and assist, as appropriate, Federal and State agencies and local governments in carrying out their historic preservation responsibilities; to cooperate with Federal and State agencies to ensure historic properties are taken into consideration at all levels of planning and development; and to consult with the appropriate Federal agencies in accordance with the National Historic Preservation Act of 1966, as amended, on Federal undertakings that may affect historic properties and the content and sufficiency of any plans developed to protect, manage, or to reduce or mitigate harm to such properties.

A survey was conducted to identify historic structures or archaeological sites within the Area of Potential Effect (APE) of the proposed undertaking and to assess the effects of the project on those historic properties. Results of the survey identified 14 historic resources (SH1364, SH1862, SH11050, SH13055, SH19699-9705, SH19727-SH19729). A portion of the previously recorded Hyde Park Historic District (SH11050), which is listed in the National Register of Historic Places (NRHP), is located within the APE; however, the contributing resources at this location have been demolished and replaced with new construction. The survey report identified the potentially eligible Platt Street Historic District (SH19729), which includes six contributing resources (SH1364, SH1862, SH19700, SH19701, SH19727, and SH19728).

500 S. Bronough Street • Tallahassee, FL 32399-0250 • http://www.flheritage.com  
Director's Office (850) 245-6433 • FAX: 245-6435  
Archaeological Research (850) 245-6444 • FAX: 245-6436  
Historic Preservation (850) 245-6333 • FAX: 245-6307  
Historical Museums (850) 245-6402 • FAX: 245-6433  
Falm Beach Regional Office (904) 279-1475 • FAX: 279-1476  
St. Augustine Regional Office (904) 828-3045 • FAX: 828-3044  
Tampa Regional Office (813) 272-2843 • FAX: 272-2240

PETER C OKONKWO  
Digitally signed by PETER C OKONKWO  
Date: 2021.02.05 14:25:04 -05'00'

**SPECTRA ENGINEERING & RESEARCH, INC.**  
NBR# = LB5698 CA# = 5698  
CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
Company Address: Tallahassee, Florida, 32301  
Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: CITY OF TAMPA  
PROJECT: TAMPA RIVERWALL PLAZA  
SHEET TITLE: ARCHAEOLOGICAL INFORMATION

DRAWN BY: FA  
DATE: 10/10/2019  
DWG. NO.: 19-016  
APPVD. BY: PCO  
PROJ. NO.: 19-016  
DWG. AUTOTURN  
SCALE: AS SHOWN

REVISIONS  
INITIAL  
SHEET NO. C15.0  
15 OF 15



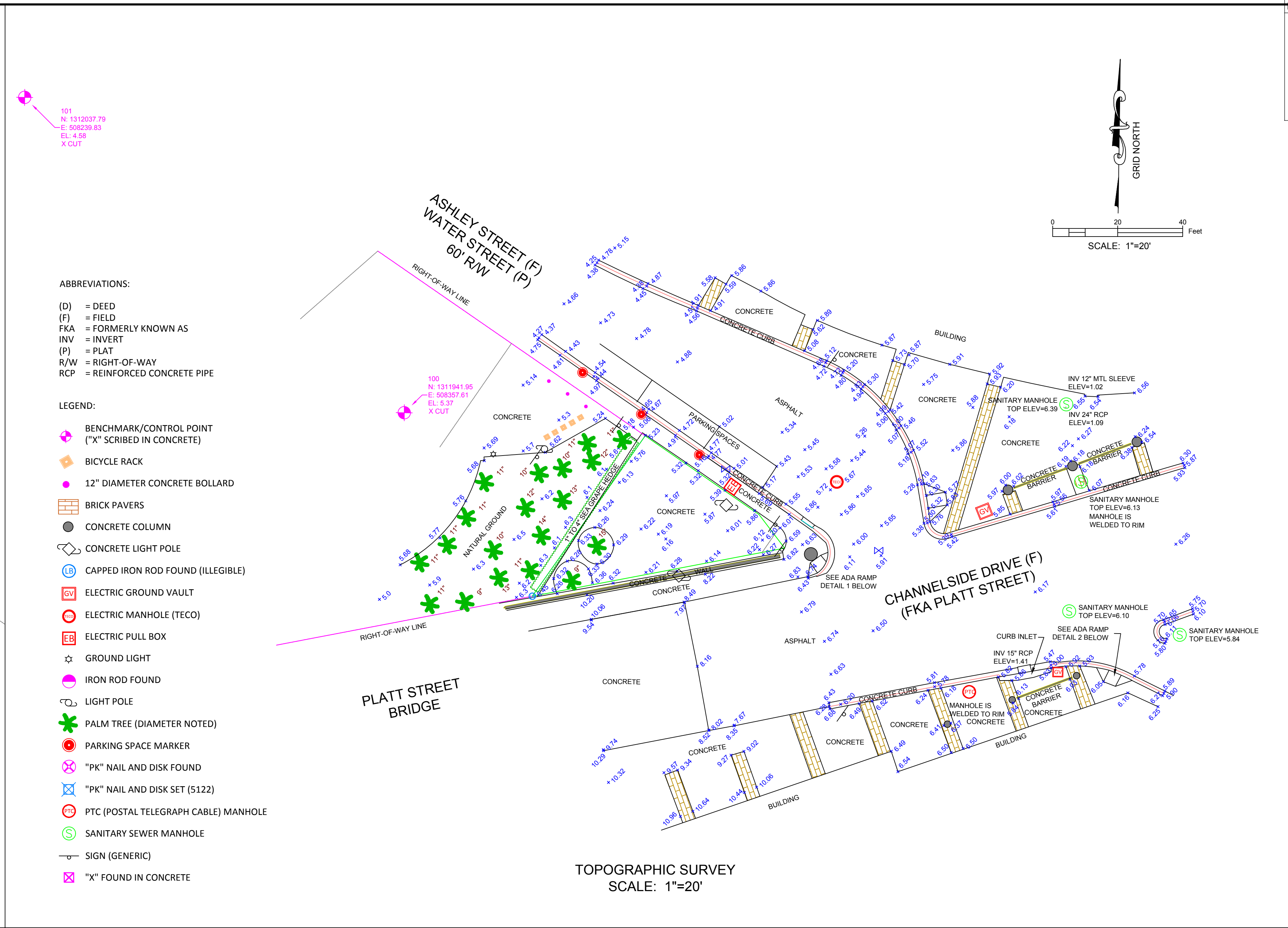
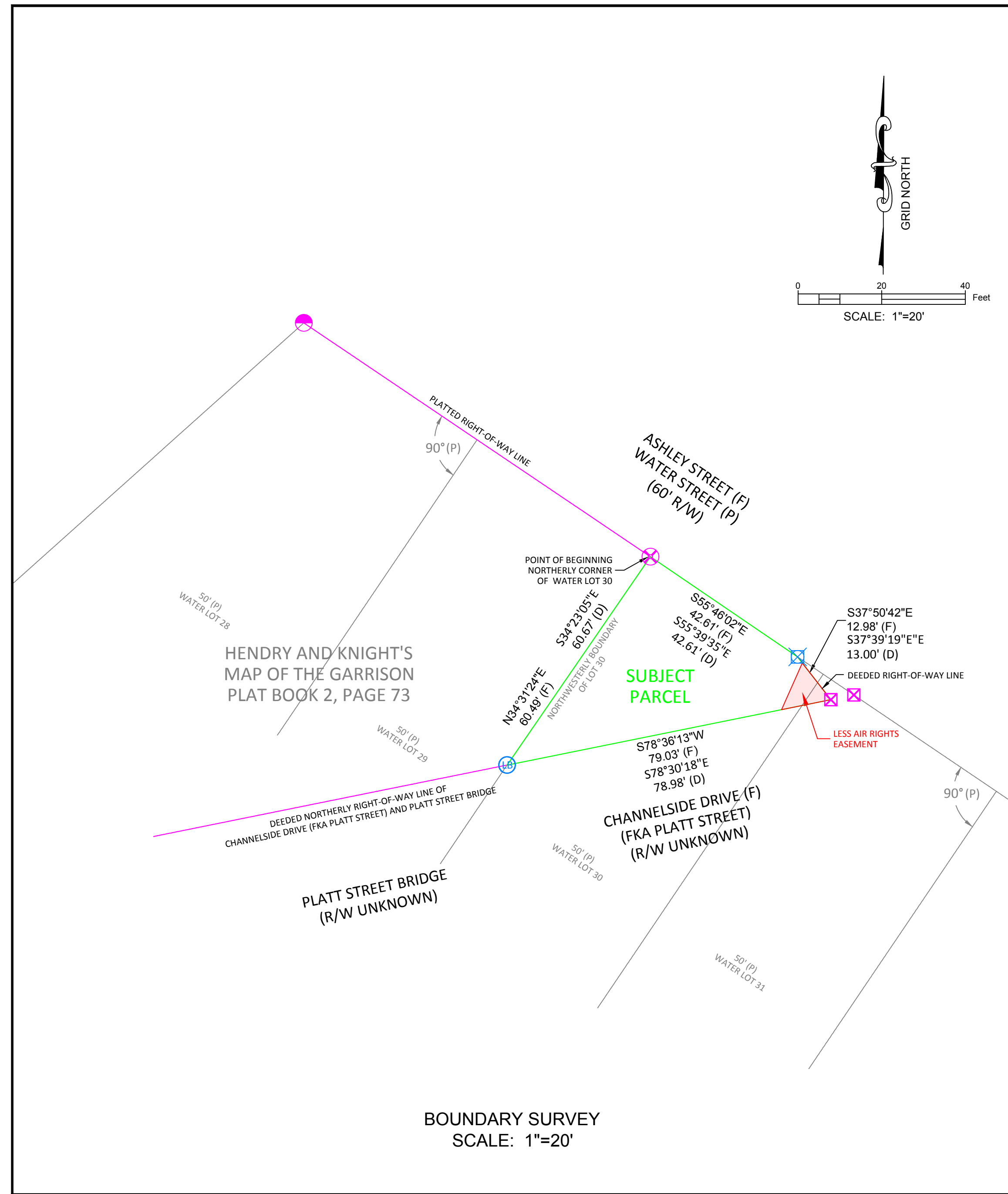
REVISIONS	DATE	BY	DESCRIPTION
ADDED ADDITIONAL TOPOGRAPHIC SURVEY	09/30/19	CS	
REVISED MONUMENTAL LEGEND	09/30/19	CS	
ADDED ADDITIONAL TOPOGRAPHIC SURVEY	07/24/20	CS	

**NSI Northwest Surveying Inc.**  
Certificate of Authorization Number: EB005122  
8409 Sunstate Street, Tampa, Florida 33634  
813-889-9236 Fax 813-886-3315

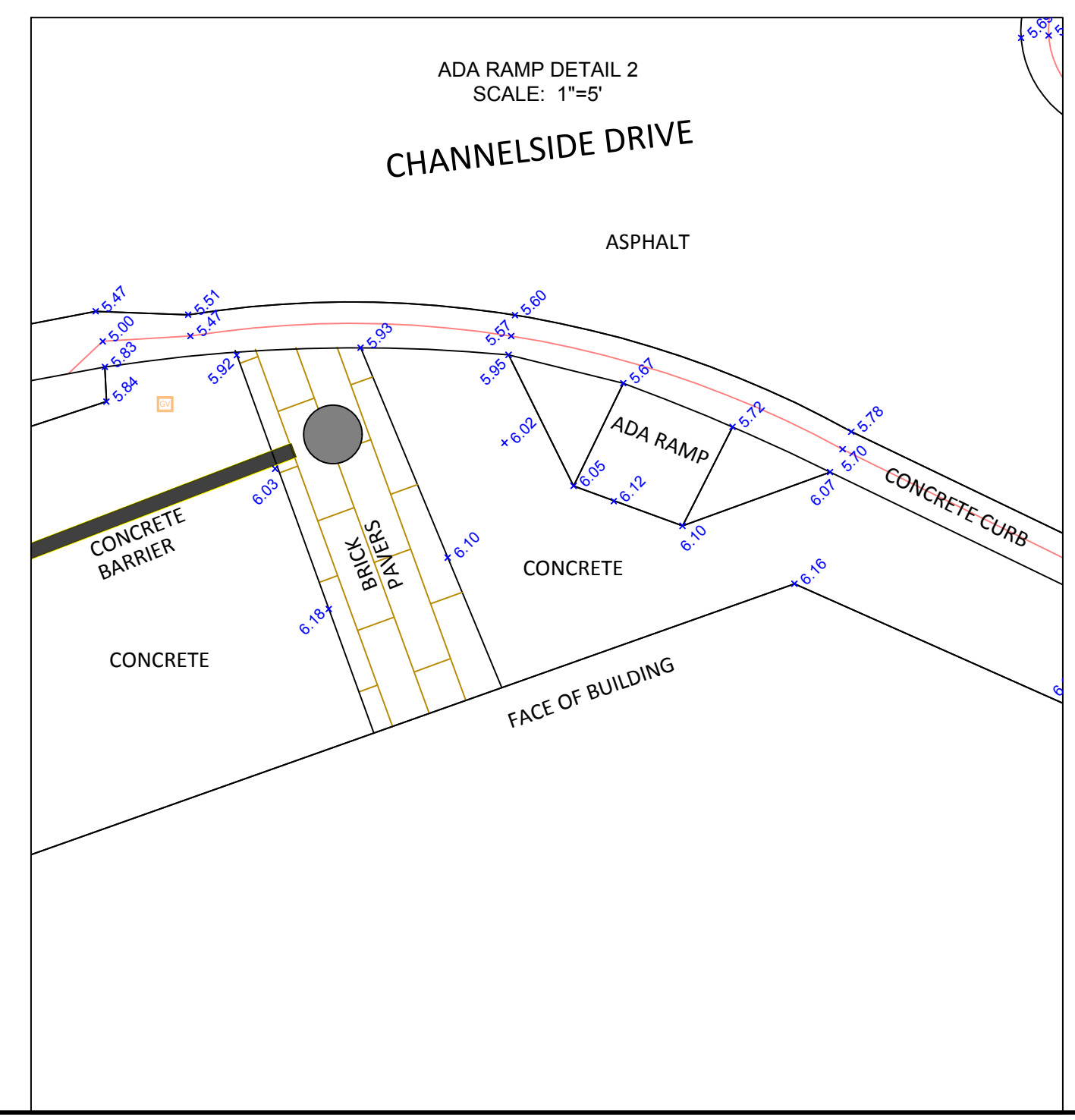
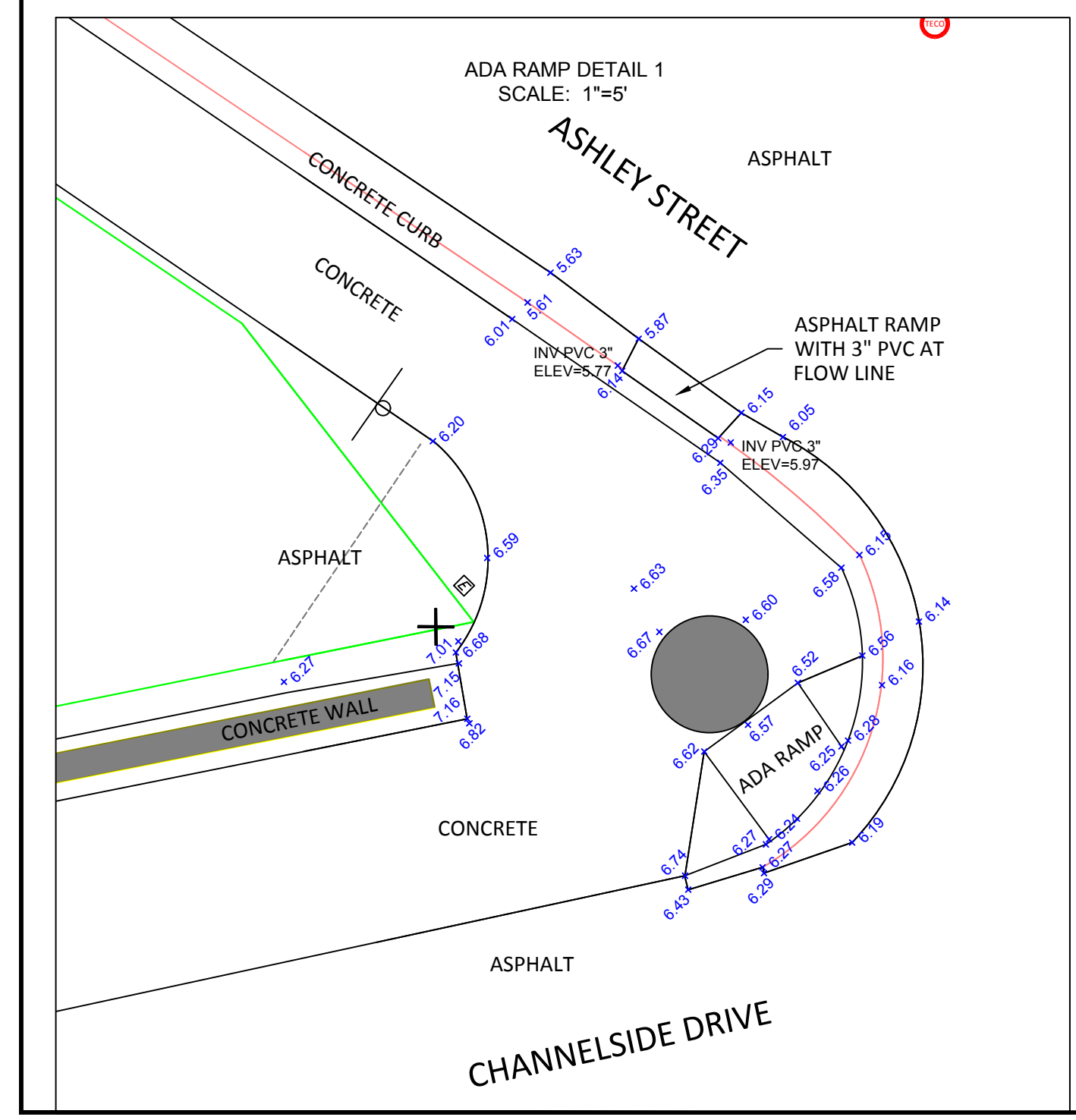
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.  
GERALD SILVA, PLS  
FLORIDA CERTIFICATE NO. 9218

**BOUNDARY AND TOPOGRAPHIC SURVEY  
COT - RIVERWALK PLAZA DESIGN  
HILLSBOROUGH COUNTY, FLORIDA**

JOB NO.: 1908-046  
(2007-051)  
CLIENT: SPECTRA ENG.  
DRAWN: WJH  
CHECKED: GS  
FILE NAME: COT RIVERWALK PLAZA  
SCALE: AS NOTED  
DATE: 09/10/2019



- ABBREVIATIONS:**
- (D) = DEED
  - (F) = FIELD
  - FKA = FORMERLY KNOWN AS
  - INV = INVERT
  - (P) = PLAT
  - R/W = RIGHT-OF-WAY
  - RCP = REINFORCED CONCRETE PIPE
- LEGEND:**
- ⊕ BENCHMARK/CONTROL POINT ("X" SCRIBED IN CONCRETE)
  - 🚲 BICYCLE RACK
  - 🧱 BRICK PAVERS
  - 📍 CONCRETE COLUMN
  - 🚲 CONCRETE LIGHT POLE
  - 🚲 CAPPED IRON ROD FOUND (ILLEGIBLE)
  - ⚡ ELECTRIC GROUND VAULT
  - ⚡ ELECTRIC MANHOLE (TECO)
  - 🔌 ELECTRIC PULL BOX
  - ☀️ GROUND LIGHT
  - 📍 IRON ROD FOUND
  - 🚲 LIGHT POLE
  - 🌴 PALM TREE (DIAMETER NOTED)
  - 🚫 PARKING SPACE MARKER
  - 🔌 "PK" NAIL AND DISK FOUND
  - 🔌 "PK" NAIL AND DISK SET (S122)
  - 📡 PTC (POSTAL TELEGRAPH CABLE) MANHOLE
  - 🚰 SANITARY SEWER MANHOLE
  - 🚲 SIGN (GENERIC)
  - ⊗ "X" FOUND IN CONCRETE



**LEGAL DESCRIPTION  
EXHIBIT "A"**

THAT PART OF WATER LOTS 30 AND 31 OF HENDRY AND KNIGHT'S MAP OF THE GARRISON, ACCORDING TO MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 73, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING NORTH OF CHANNELSIDE DRIVE (FORMERLY KNOWN AS PLATT STREET) AND THE PLATT STREET BRIDGE:

LESS INTERSECTION RIGHT OF WAY:

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST NORTHERLY CORNER OF WATER LOT 30 (MOST EASTERLY CORNER OF WATER LOT 29) OF HENDRY AND KNIGHT'S MAP OF THE GARRISON, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 73, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; RUN THENCE SOUTH 55°39'35" EAST, 42.61 FEET, ALONG THE ASHLEY (WATER) STREET BOUNDARY OF SAID WATER LOT 30; THENCE SOUTH 37°39'19" EAST, 13.00 FEET, ALONG INTERSECTION RIGHT-OF-WAY LINE TO THE NORTHERLY RIGHT-OF-WAY LINE OF CHANNELSIDE DRIVE (FORMERLY KNOWN AS PLATT STREET); THENCE SOUTH 78°30'18" WEST, 78.98 FEET, ALONG THE NORTHERLY RIGHT-OF-WAY LINE OF CHANNELSIDE DRIVE (FORMERLY KNOWN AS PLATT STREET) AND THE PLATT STREET BRIDGE; TO THE NORTHWESTERLY BOUNDARY OF SAID WATER LOT 30 (SOUTHEASTERLY BOUNDARY OF SAID WATER LOT 29); THENCE NORTH 34°23'05" EAST, 60.67 FEET, ALONG SAID NORTHWESTERLY BOUNDARY OF WATER LOT 30, TO THE POINT OF BEGINNING;

LESS THE FOLLOWING AIR RIGHTS:

THAT PART OF WATER LOT 30 AND 31 OF SAID HENDRY AND KNIGHT'S MAP OF THE GARRISON, ACCORDING TO PLAT THEREOF, AS RECORDED IN PLAT BOOK 2 (PAGE(S) 73), OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING BETWEEN NATIONAL VERTICAL DATUM OF 1929 ELEVATIONS OF 32.00 FEET AND 56.00 FEET, WITHIN THE FOLLOWING BOUNDARIES, MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO WIT:

COMMENCING AT THE MOST NORTHERLY CORNER OF WATER LOT 28, OF SAID HENDRY AND KNIGHT'S MAP OF THE GARRISON; RUN THENCE SOUTH 55°39'35" EAST, ALONG THE ASHLEY (WATER) STREET BOUNDARY OF WATER LOTS 28, 29, AND 30, A DISTANCE OF 142.61 FEET, TO A POINT; THENCE SOUTH 37°39'19" EAST, ALONG THE ASHLEY (WATER) STREET BOUNDARY OF WATER LOTS 30 AND 31, A DISTANCE OF 1.85 FEET, TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 37°39'19" EAST, ALONG INTERSECTION RIGHT OF WAY LINE, A DISTANCE OF 11.15 FEET, TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF PLATT STREET (NOW KNOWN AS CHANNELSIDE DRIVE); THENCE SOUTH 78°30'18" WEST, ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 12.05 FEET; THENCE NORTH 34°23'05" EAST, A DISTANCE OF 12.29 FEET, TO THE POINT OF BEGINNING.

**NOTES:**

- NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED, EXCEPT AS NOTED.
- NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS OF WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR, EXCEPT AS SHOWN.
- UNLESS OTHERWISE SHOWN HEREON, NO JURISDICTIONAL WETLAND AREAS OR OTHER TOPOGRAPHIC FEATURES HAVE BEEN LOCATED.
- THIS OFFICE DID NOT PERFORM A TITLE SEARCH OF THE PUBLIC RECORDS TO VERIFY OR CONFIRM OWNERSHIP NOR WAS ONE PROVIDED BY THE CLIENT.
- THE BEARINGS, COORDINATES AND DISTANCES SHOWN HEREON ARE GRID COORDINATES AND ARE BASED ON THE FLORIDA WEST ZONE TRANSVERSE MERCATOR STATE PLANE COORDINATE SYSTEM NAD83 (2011 ADJUSTMENT). THE BASIS OF BEARINGS IS THE SOUTHWESTERLY RIGHT-OF-WAY LINE OF ASHLEY STREET, HAVING A BEARING OF S55°39'35" E.
- ELEVATIONS SHOWN HEREON ARE EXPRESSED IN US SURVEY FEET AND WERE DERIVED FROM CITY OF TAMPA BENCHMARK "HV-02-0183, HAVING AN ELEVATION OF 7.623, NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
- THIS IS A BOUNDARY AND TOPOGRAPHIC SURVEY OF AREAS REQUESTED BY THE CLIENT.
- THE LAST DAY OF FIELD WORK WAS JULY 23, 2020.

ABBREVIATIONS

Table of abbreviations for construction terms, including AIR CONDITIONER, ANCHOR BOLT, ADJACENT, ABOVE FINISHED FLOOR, etc.

DESIGN LOADS

Table showing occupancy and live load/dead load values for different areas like ROOF, EQUIPMENT PLATFORM, OFFICE, etc.

GENERAL NOTES

- Notes regarding governing code (Florida Building Code, 17th Edition 2020), structural drawings compliance, construction requirements, and details.

EXCAVATION, BACKFILL AND DE-WATERING

- Notes regarding excavation procedures, shoring, and de-watering requirements.

REINFORCED CONCRETE

- Notes regarding reinforced concrete requirements, including ACI 308 and 318, and details for slabs, foundations, and walls.

SLAB ON GRADE

- Notes regarding slab on grade construction, including sub-grade preparation, reinforcement, and joint placement.

SHALLOW FOUNDATIONS

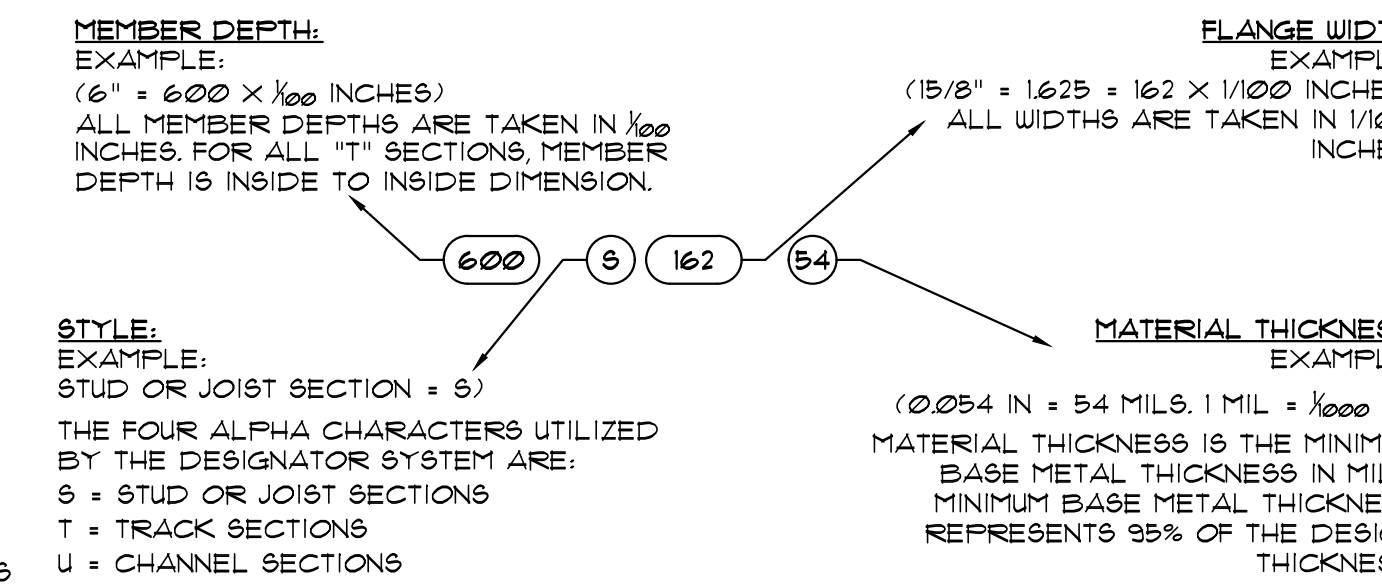
- Notes regarding shallow foundations, including soil investigation, bearing capacity, and footing requirements.

CONCRETE MASONRY

- Notes regarding concrete masonry construction, including ACI 530/ASCE 5, reinforcement, and joint details.

LIGHT GAGE STEEL FRAMING

- Notes regarding light gage steel framing, including exterior stud construction, framing members, and connections.



Tables for THICKNESS - STEEL COMPONENTS and DESIGN STIFFENING LIP LENGTH.

WIND LOAD DESIGN CRITERIA AND FLOOD ZONE INFORMATION

Table for wind load design criteria including governing code, building type, risk category, exposure category, and wind speed.

Tables for component and cladding loads (roof, interior zone, edge zone, corner zone) and main wind force resisting structures.

Table for window and door requirements - ASD, showing wind pressure values for different opening sizes.

NOTE: FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

- Notes regarding wind load design criteria, including ASCE 7-16, flood zone information, and structural requirements.

NOTE TO REVIEWER: DESIGNER HAS CLASSIFIED THE STRUCTURE AS PARTIALLY ENCLOSED.

100 % CONSTRUCTION DOCUMENTS

City of Tampa Building Department logo and BARKLEY CONSULTING ENGINEERS INC. information.

Table for certificate of authorization #8710, including project name, location, and dates.

Table for project details, including owner, architect, and engineer information.

Table for design criteria, including wind speed, exposure, and risk category.

Table for component and cladding loads, including interior zone and edge zone values.

Table for main wind force resisting structures, including net design wall pressure.

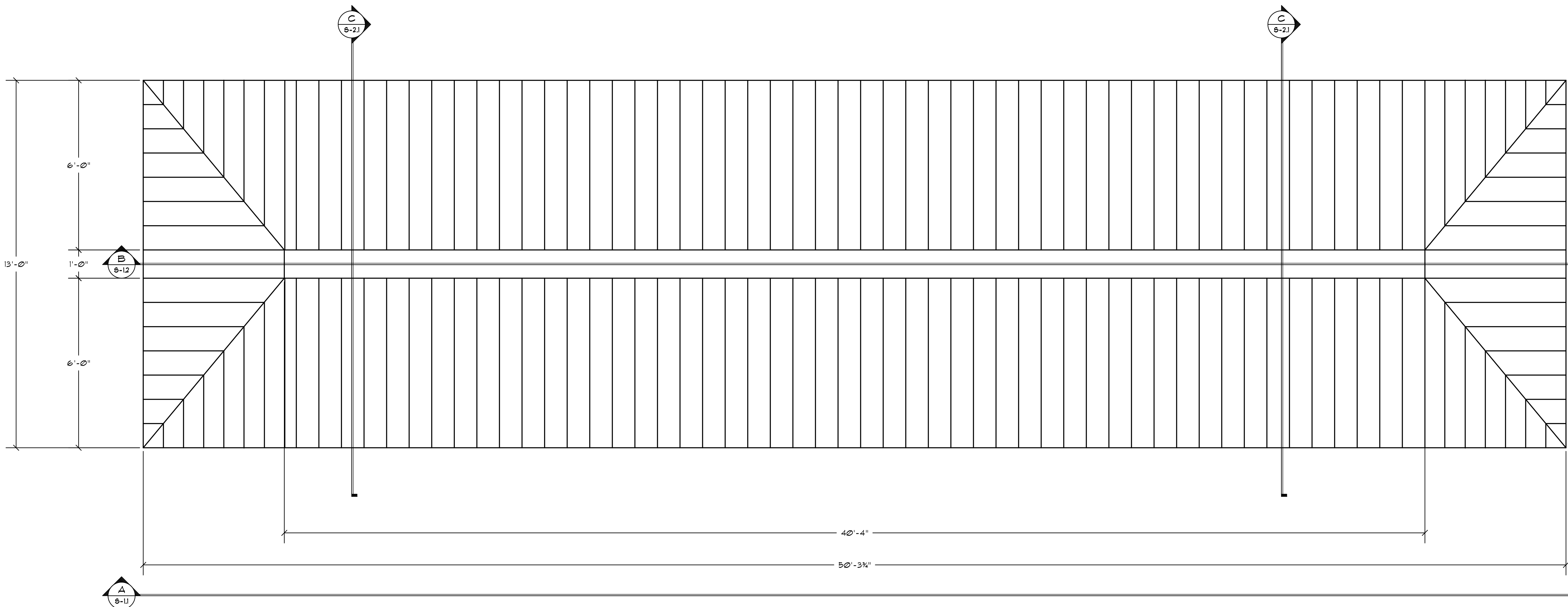
Table for window and door requirements, including wind pressure values.

Digital signature block for Douglas R. Barkley, Consulting Engineers, Inc., dated 2023.05.12.

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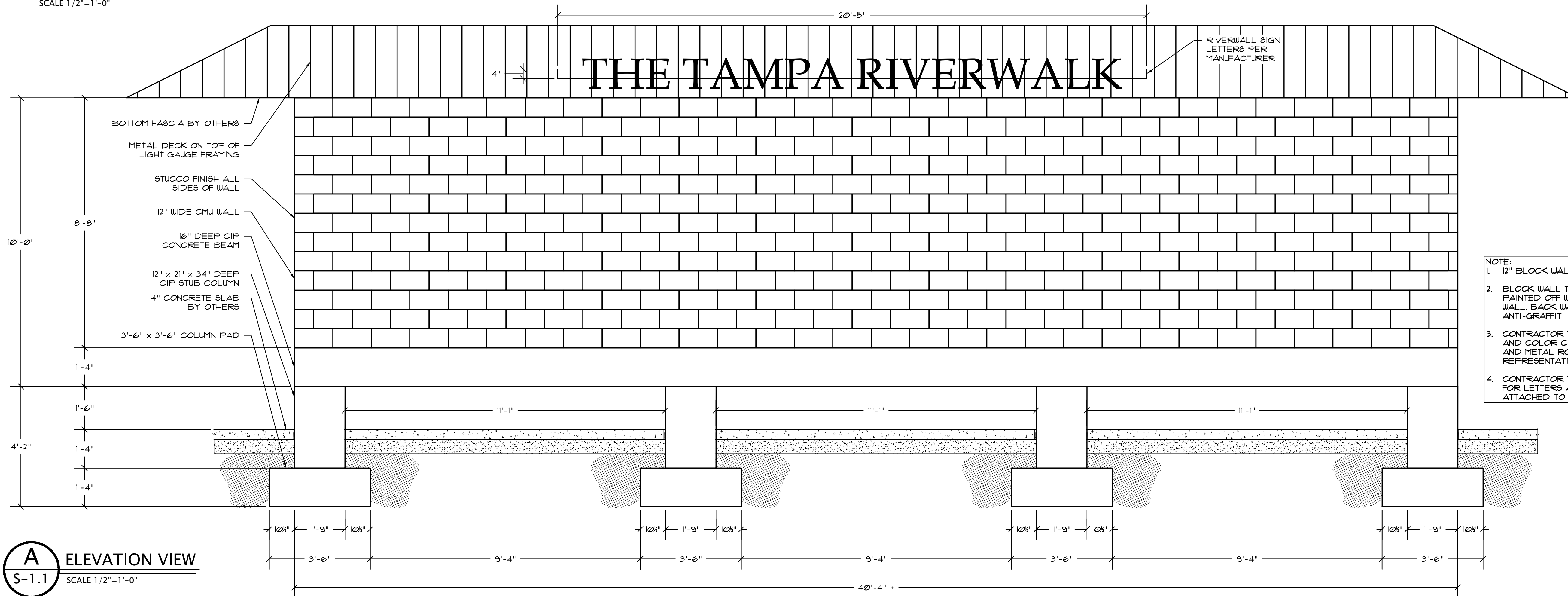
City of Tampa  
CONSTRUCTION SERVICES DIVISION  
PLAN APPROVAL  
BLD-21-000-17202-1  
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES.  
IT IS UNLAWFUL TO MAKE CHANGES OR ALTERATIONS WITHOUT WRITTEN APPROVAL FROM THE CITY OF TAMPA CONSTRUCTION SERVICES DIVISION.  
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**BARKLEY**  
CONSULTING ENGINEERS, INC.  
2840 REMINGTON GREEN CIR.  
SUITE E  
TALLAHASSEE, FLORIDA 32308  
OFFICE 850.297.0440  
CERTIFICATE OF AUTHORIZATION #8710

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CERTIFICATE OF AUTHORIZATION #8710



**ROOF PLAN**

SCALE 1/2"=1'-0"

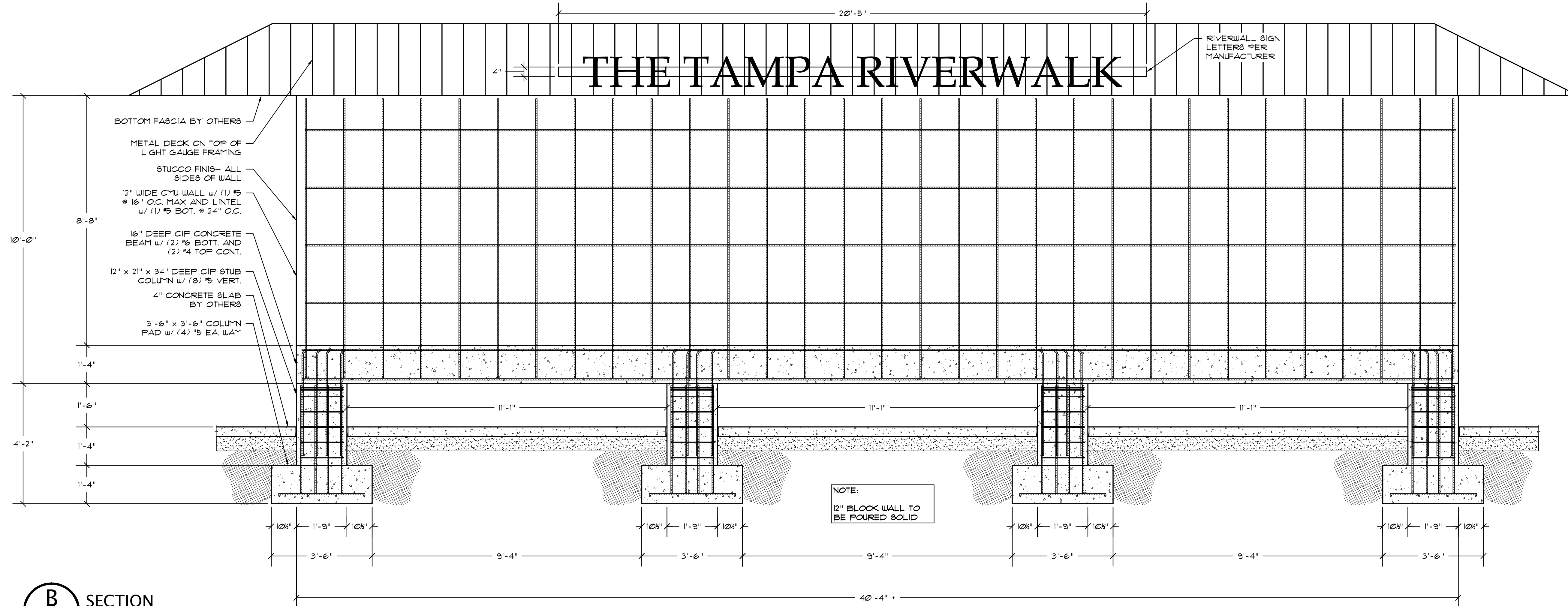


- BOTTOM FASCIA BY OTHERS
- METAL DECK ON TOP OF LIGHT GAUGE FRAMING
- STUCCO FINISH ALL SIDES OF WALL
- 12" WIDE CMU WALL
- 16" DEEP CIP CONCRETE BEAM
- 12" x 21" x 34" DEEP CIP STUB COLUMN
- 4" CONCRETE SLAB BY OTHERS
- 3'-6" x 3'-6" COLUMN PAD

- NOTE:
1. 12" BLOCK WALL TO BE POURED SOLID
  2. BLOCK WALL TO HAVE STUCCO FINISH AND PAINTED OFF WHITE TO MATCH ORIGINAL WALL. BACK WALL TO BE COATED WITH ANTI-GRAFFITI COATING BY OTHERS
  3. CONTRACTOR TO SUBMIT SHOP DRAWING AND COLOR CHARTS FOR STUCCO PAINT AND METAL ROOF FOR CITY REPRESENTATIVE TO SELECT FROM.
  4. CONTRACTOR TO SUBMIT SHOP DRAWING FOR LETTERS AND LIGHTING TO BE ATTACHED TO BOTH SIDES OF ROOF.

**A ELEVATION VIEW**  
S-1.1 SCALE 1/2"=1'-0"

Digitally signed by Douglas R Barkley  
DN: cn=Douglas R Barkley, o=Barkley Consulting Engineers, Inc., ou=0141000000017, email=Douglas.R.Barkley@barkleyce.com, c=US  
Date: 2021.05.12 12:12:18 -0400



**B**  
S-1.2  
SECTION  
SCALE 1/2"=1'-0"

NOTE:  
12" BLOCK WALL TO BE POURED SOLID

- NOTE:
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  - CONTRACTOR TO SUBMIT SHOP DRAWING FOR LETTERS AND LIGHTING TO BE ATTACHED TO BOTH SIDES OF ROOF.

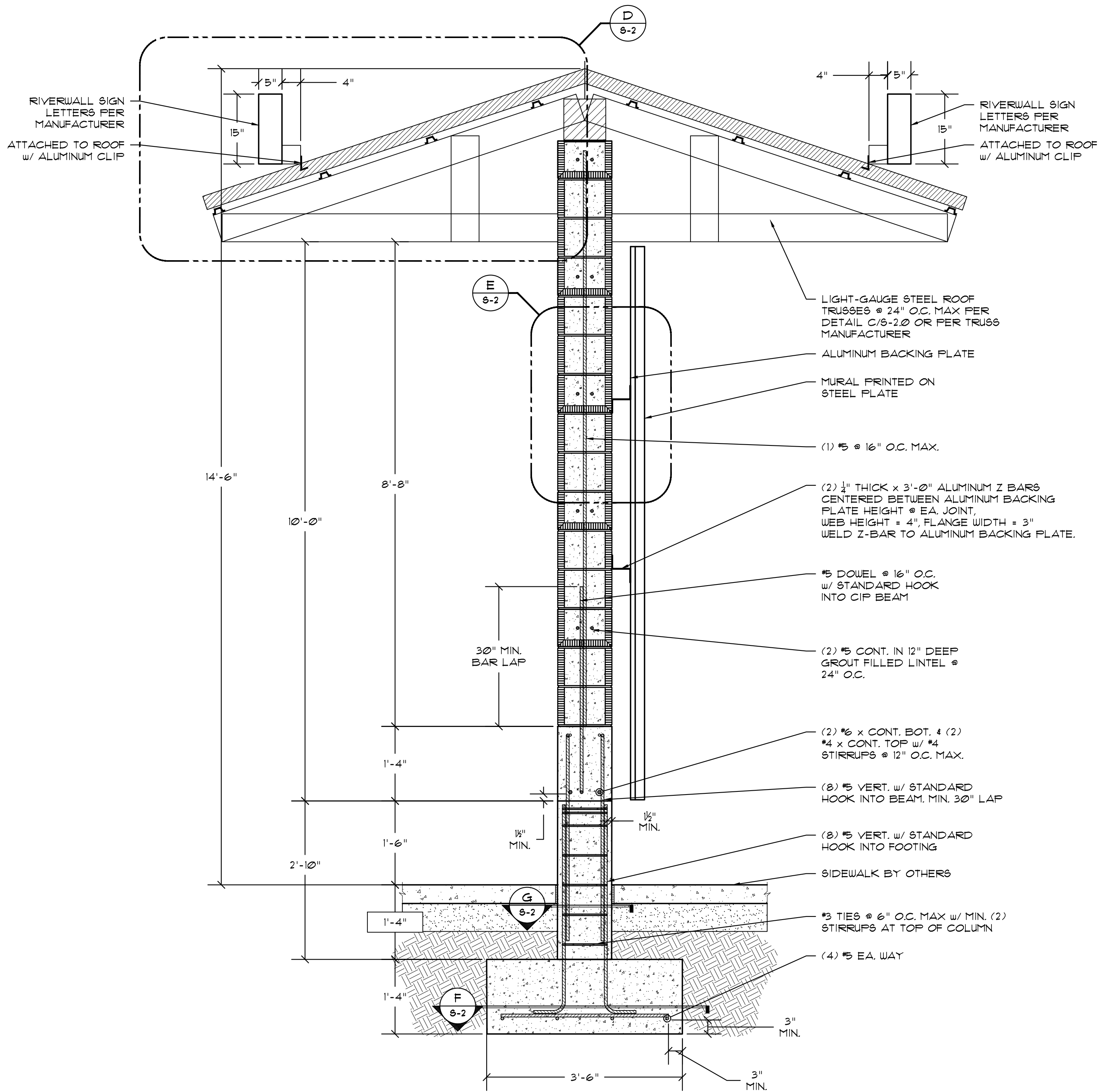
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CITY OF TAMPA  
CONSTRUCTION SERVICES DIVISION  
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THE STAMPING AUTHORITY SHALL BE THE CITY OF TAMPA.  
ANY VIOLATION OF ANY CITY OR STATE CODES SHALL BE REPORTED TO THE CITY OF TAMPA.  
**BARKLEY CONSULTING ENGINEERS, INC.**  
2840 REMINGTON GREEN CIR.  
SUITE E  
TALLAHASSEE, FLORIDA 32308  
OFFICE 850.297.0440  
CERTIFICATE OF AUTHORIZATION #8710

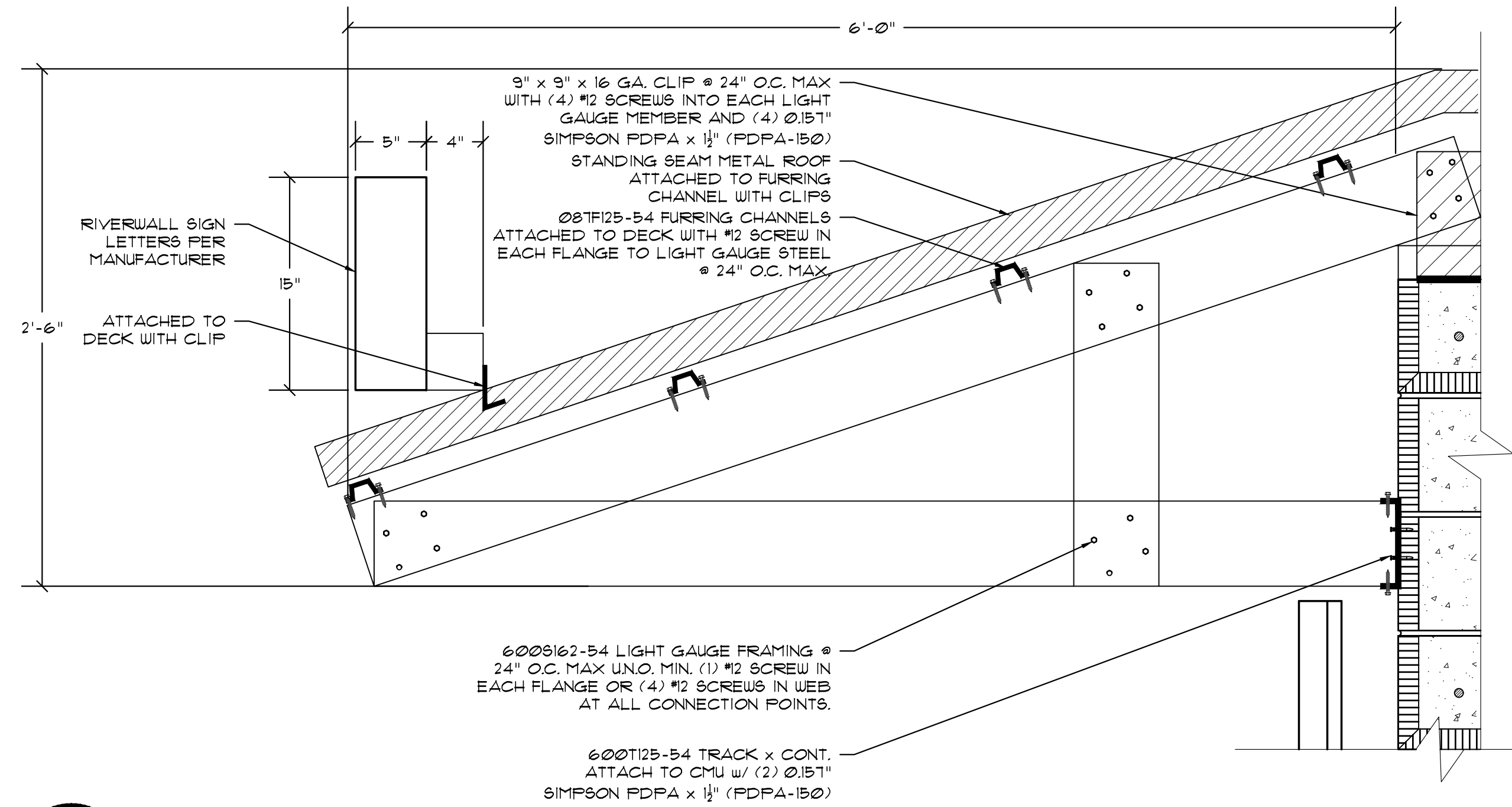
Digitally signed by Douglas R Barkley  
DN: c=US, o=Barkley Consulting Engineers Inc., ou=014100000017, cn=Douglas R Barkley  
Date: 2023.05.12 12:23:04-00'

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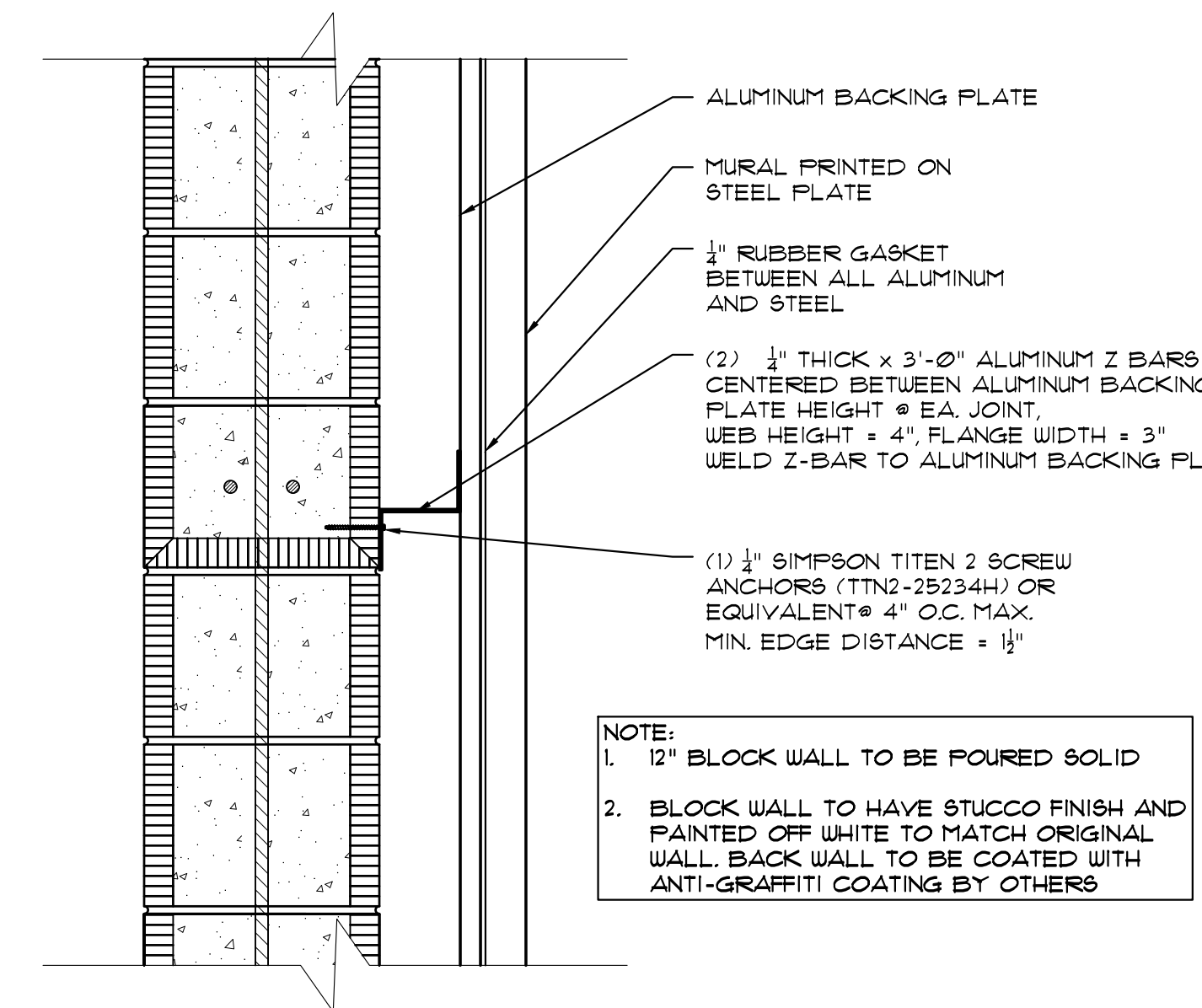
- NOTE:**
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  - CONTRACTOR TO SUBMIT SHOP DRAWING FOR LETTERS AND LIGHTING TO BE ATTACHED TO BOTH SIDES OF ROOF.



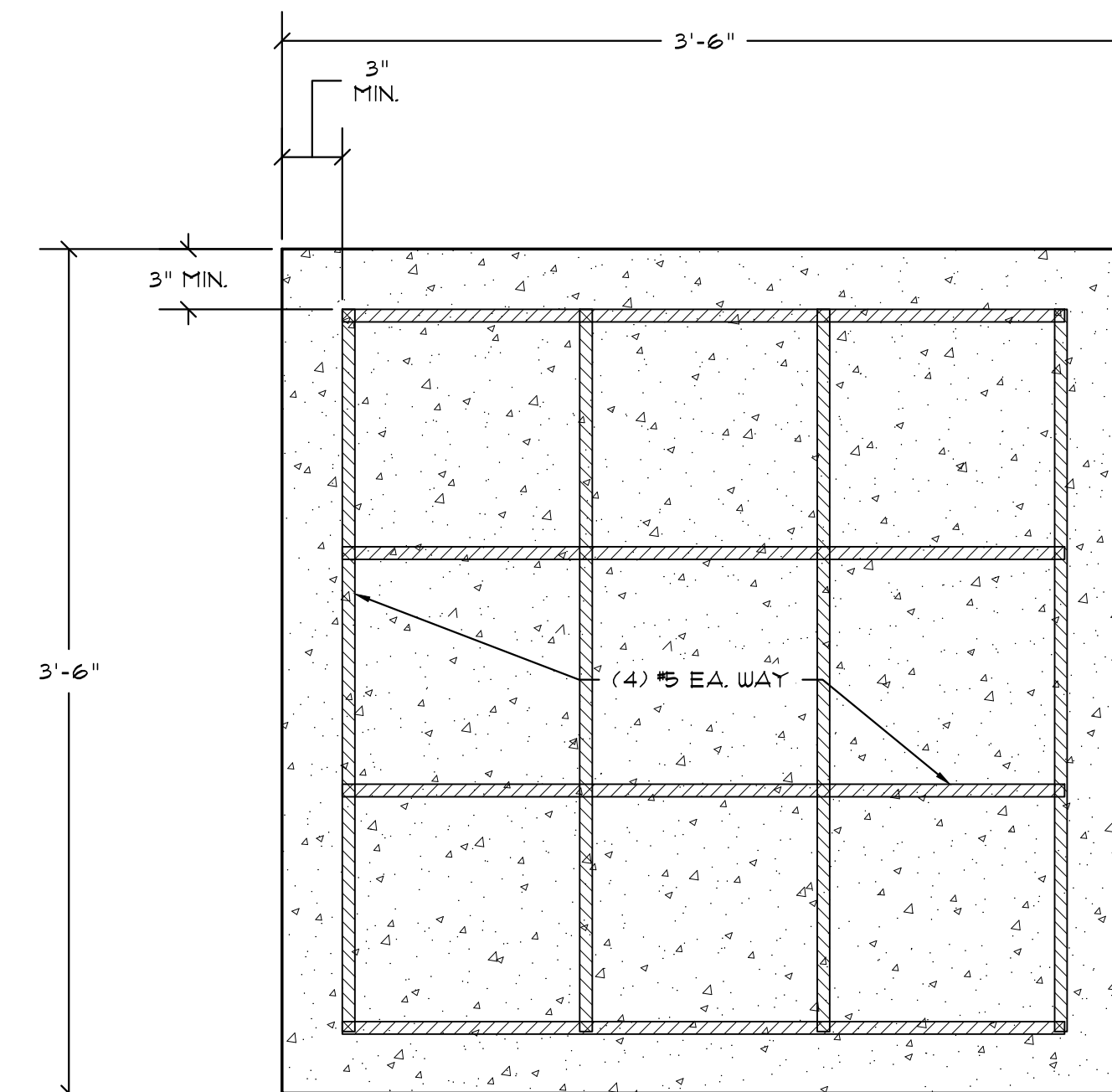
**C WALL SECTION**  
S-2.1 SCALE 3/4"=1'-0"



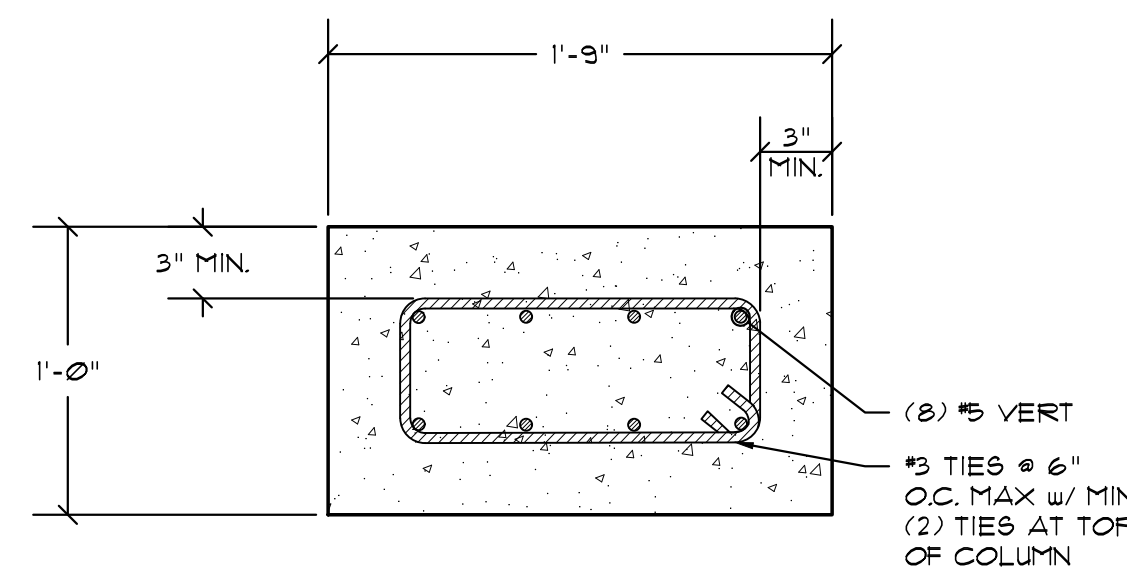
**D WALL SECTION**  
S-2.1 SCALE 1-1/2"=1'-0"



**E WALL SECTION**  
S-2.1 SCALE 1-1/2"=1'-0"



**F COLUMN CROSS-SECTION**  
S-2.1 SCALE 1-1/2"=1'-0"



**G COLUMN CROSS-SECTION**  
S-2.1 SCALE 1-1/2"=1'-0"

City of Tampa  
CONSTRUCTION SERVICES DIVISION  
PLAN APPROVAL

**NOT**

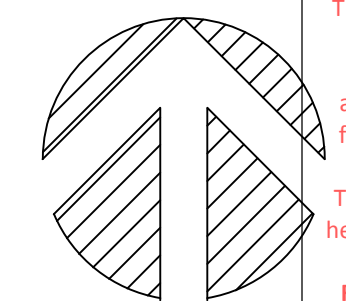
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**BARKLEY CONSULTING ENGINEERS, INC.**  
2840 REMINGTON GREEN CIR., SUITE E  
TALLAHASSEE, FLORIDA 32308  
OFFICE 850.297.0440  
CERTIFICATE OF AUTHORIZATION #8710

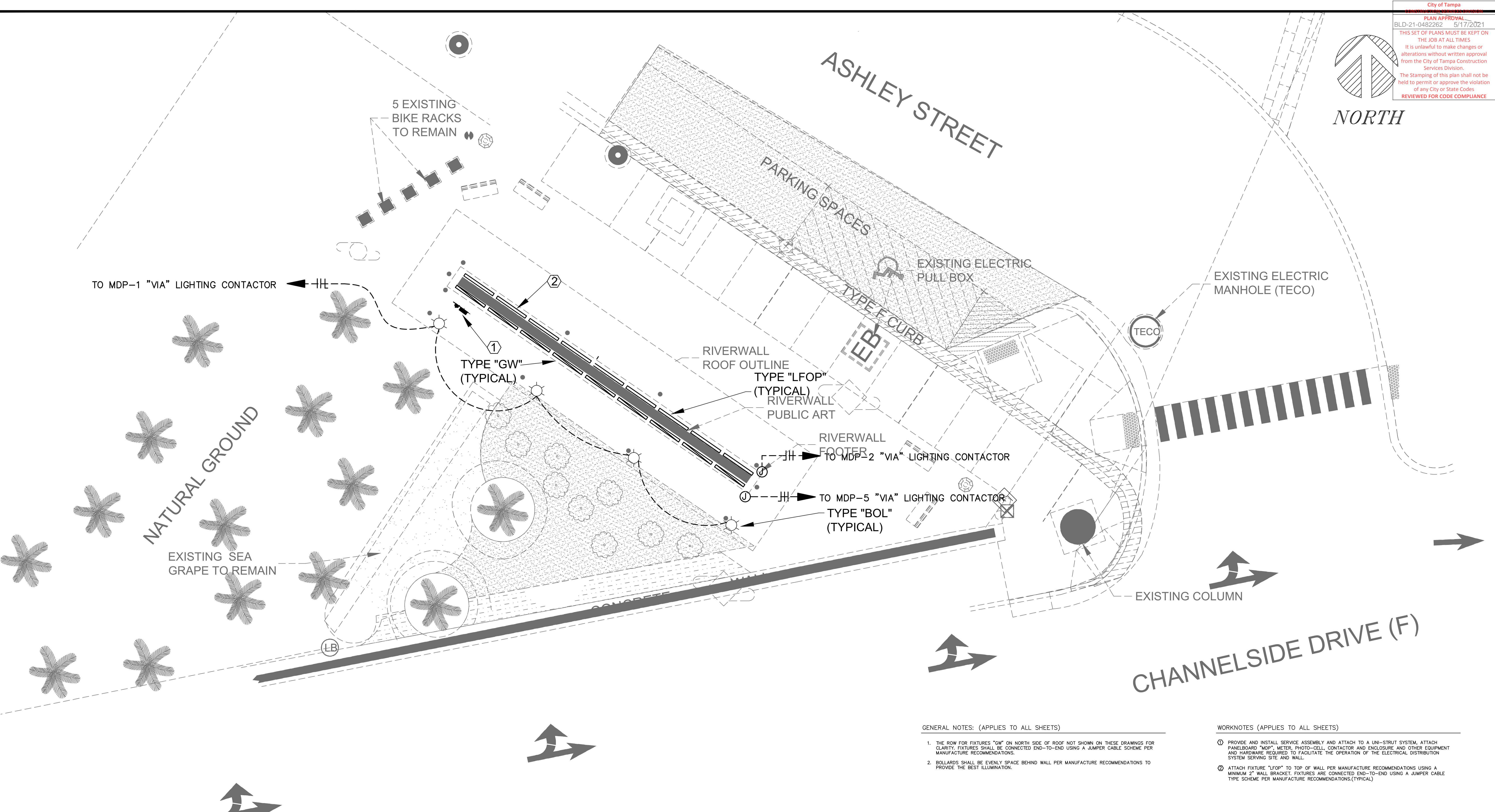
Digitally signed by Douglas R Barkley  
DN: c=US, o=Barkley Consulting Engineers Inc., ou=A014100000017, 372E469270005848, cn=Douglas R Barkley  
Date: 2021.05.12 12:12:57 -0400







NORTH



GENERAL NOTES: (APPLIES TO ALL SHEETS)

1. THE ROW FOR FIXTURES "ON" ON NORTH SIDE OF ROOF NOT SHOWN ON THESE DRAWINGS FOR CLARITY. FIXTURES SHALL BE CONNECTED END-TO-END USING A JUMPER CABLE SCHEME PER MANUFACTURE RECOMMENDATIONS.
2. BOLLARDS SHALL BE EVENLY SPACE BEHIND WALL PER MANUFACTURE RECOMMENDATIONS TO PROVIDE THE BEST ILLUMINATION.

WORKNOTES (APPLIES TO ALL SHEETS)

1. PROVIDE AND INSTALL SERVICE ASSEMBLY AND ATTACH TO A UNI-STRUT SYSTEM. ATTACH PANELBOARD "MDP", METER, PHOTO-CELL, CONTACTOR AND ENCLOSURE AND OTHER EQUIPMENT AND HARDWARE REQUIRED TO FACILITATE THE OPERATION OF THE ELECTRICAL DISTRIBUTION SYSTEM SERVING SITE AND WALL.
2. ATTACH FIXTURE "LFOP" TO TOP OF WALL PER MANUFACTURE RECOMMENDATIONS USING A MINIMUM 2" WALL BRACKET. FIXTURES ARE CONNECTED END-TO-END USING A JUMPER CABLE TYPE SCHEME PER MANUFACTURE RECOMMENDATIONS(TYPICAL)

2 RIVERWALL PLAZA SITE POWER PLAN Scale: 1:5

FOR CONSTRUCTION

**JAMAA** JAMES & MOORE & ASSOCIATES, LLC CA #31421  
 653 W 23rd STREET, SUITE 307  
 PANAMA CITY, FLA 32405  
 Tel (850)-902-7301, Fax (850)-689-0082

**SPECTRA ENGINEERING & RESEARCH, INC.**  
 NBR#-LB5698 CA# =5698  
 CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
 1315 LAFAYETTE ST, STE B, TALLAHASSEE FL 32301  
 Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT:  
 CITY OF TAMPA

PROJECT:  
 TAMPA RIVER WALL PLAZA

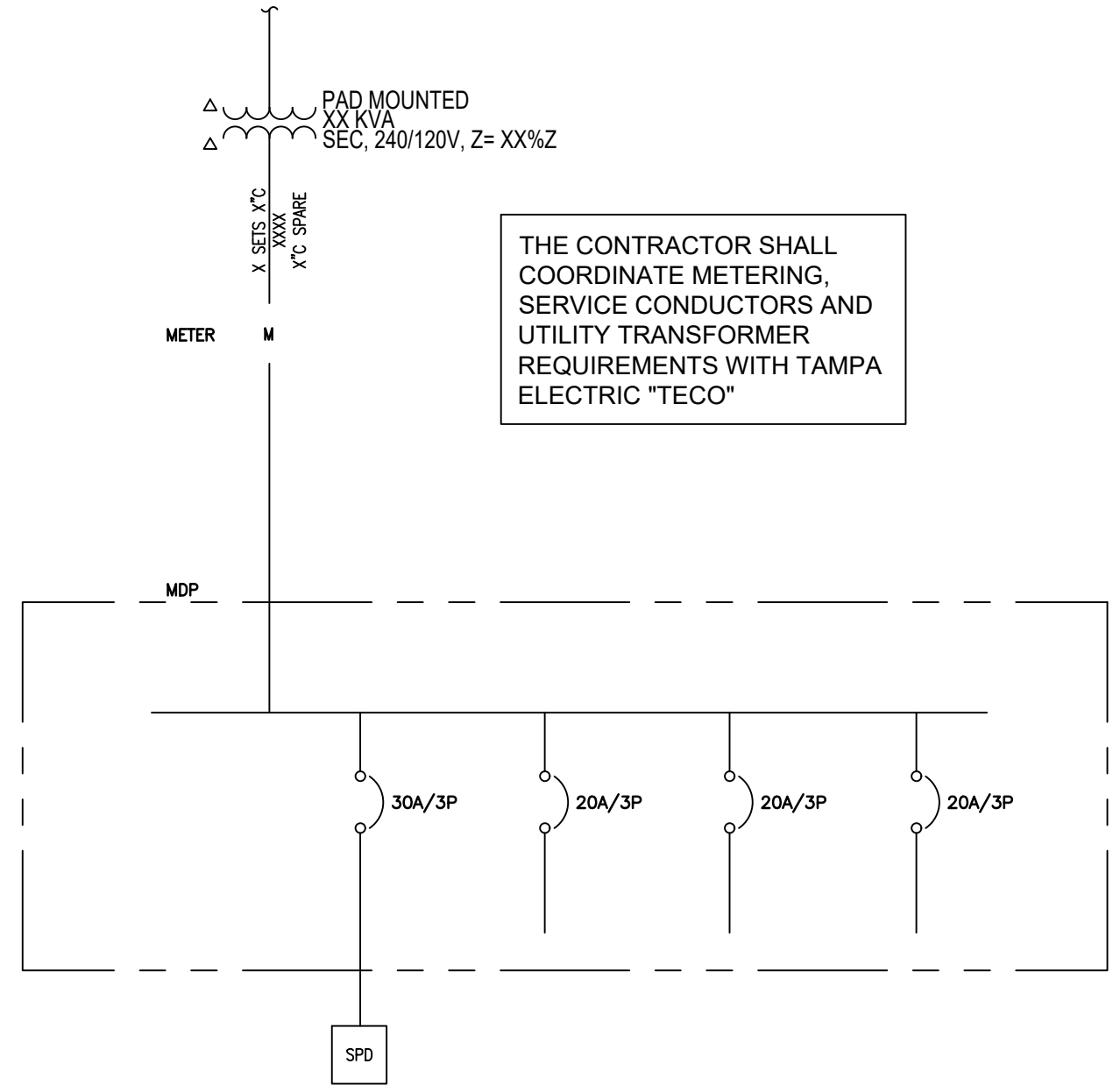
SHEET TITLE:  
 GENERAL NOTES LEGEND

THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.

DRAWN BY: J.GAMMONS  
 DATE: 02/04/2021  
 DWG. NO.: DRAWING\_NO  
 APPVD. BY: J.GAMMONS  
 PROJ. NO.: PROJECT\_NO  
 DWG. DRAWING\_NAME  
 SCALE: 1"=5'

REVISIONS	INITIAL	SHEET NO
		E2.0
		2 OF 5





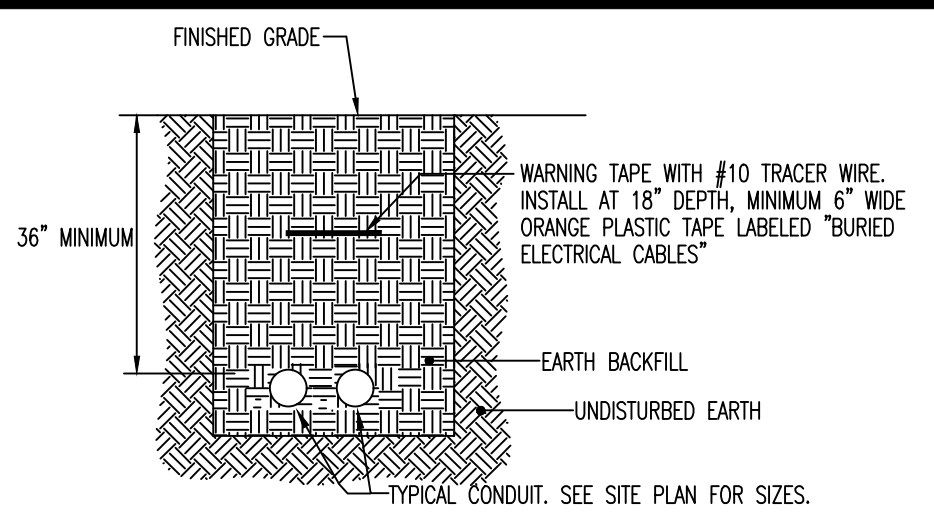
THE CONTRACTOR SHALL COORDINATE METERING, SERVICE CONDUCTORS AND UTILITY TRANSFORMER REQUIREMENTS WITH TAMPA ELECTRIC "TECO"

AVAILABLE SHORT CIRCUIT FAULT CURRENT BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE CALCULATED MAXIMUM FAULT CURRENT AVAILABLE HOWEVER THIS INFORMATION WAS NOT AVAILABLE AT TIME OF DESIGN, THE AVAILABLE FAULT CURRENT WILL BE ADDED TO THE DRAWINGS BY THE ENGINEER OF RECORD, FOR ESTIMATING PURPOSES ASSUME MINIMUM 32KAIC. PROVIDED . ALL EQUIPMENT SHALL BE COORDINATED AND RATED NO LESS THAN THE AVAILABLE FAULT CURRENT AS CALCULATED.

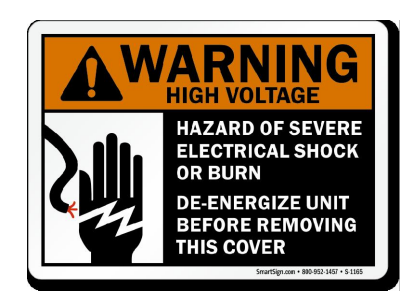
AVAILABLE FAULT CURRENT IDENTIFICATION: SPECIFIED "AVAILABLE FAULT CURRENT" AT THE SERVICE POINT TO BE FURNISHED BY TAMPA ELECTRIC, THIS INFORMATION WASNT AVAILABLE DURING DESIGN, INSURE THE EQUIPMENT CAN ACCOMMODATE THE FAULT CURRENT SPECIFIED BY THE UTILITY PER THE 2017 NEC. PER NEC 110.24 SERVICE EQUIPMENT IN OTHER DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATIONS WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITH-STAND THE ENVIRONMENT INVOLVE.

NOTE TO ELECTRICAL CONTRACTOR: THE POWER RISER DIAGRAM IS PURELY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY PROPER POSITIONING OF EQUIPMENT, AND ENCLOSURE AND WIRING ENTRIES INTO EQUIPMENT IN THE FIELD, RELOCATE EQUIPMENT AS REQUIRED TO IMPLEMENT INSTALLATION.

RISER DIAGRAM  
 NOT TO SCALE

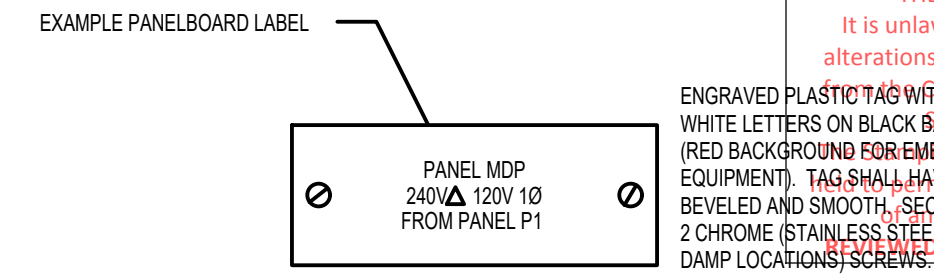


TRENCHING & BACKFILL DETAIL  
 NOT TO SCALE

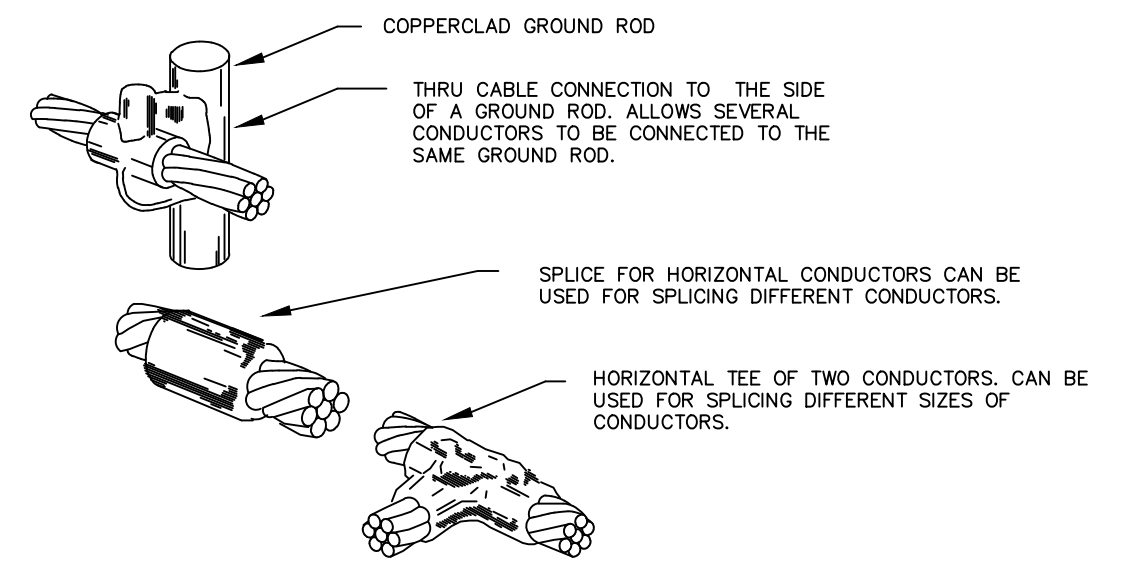


ATTACH WEATHER RATED PLACKARD TO ALL PANEL BOARD DOORS

SIGNAGE  
 NOT TO SCALE



TYPICAL PANELBOARD LABELING DETAIL  
 NOT TO SCALE



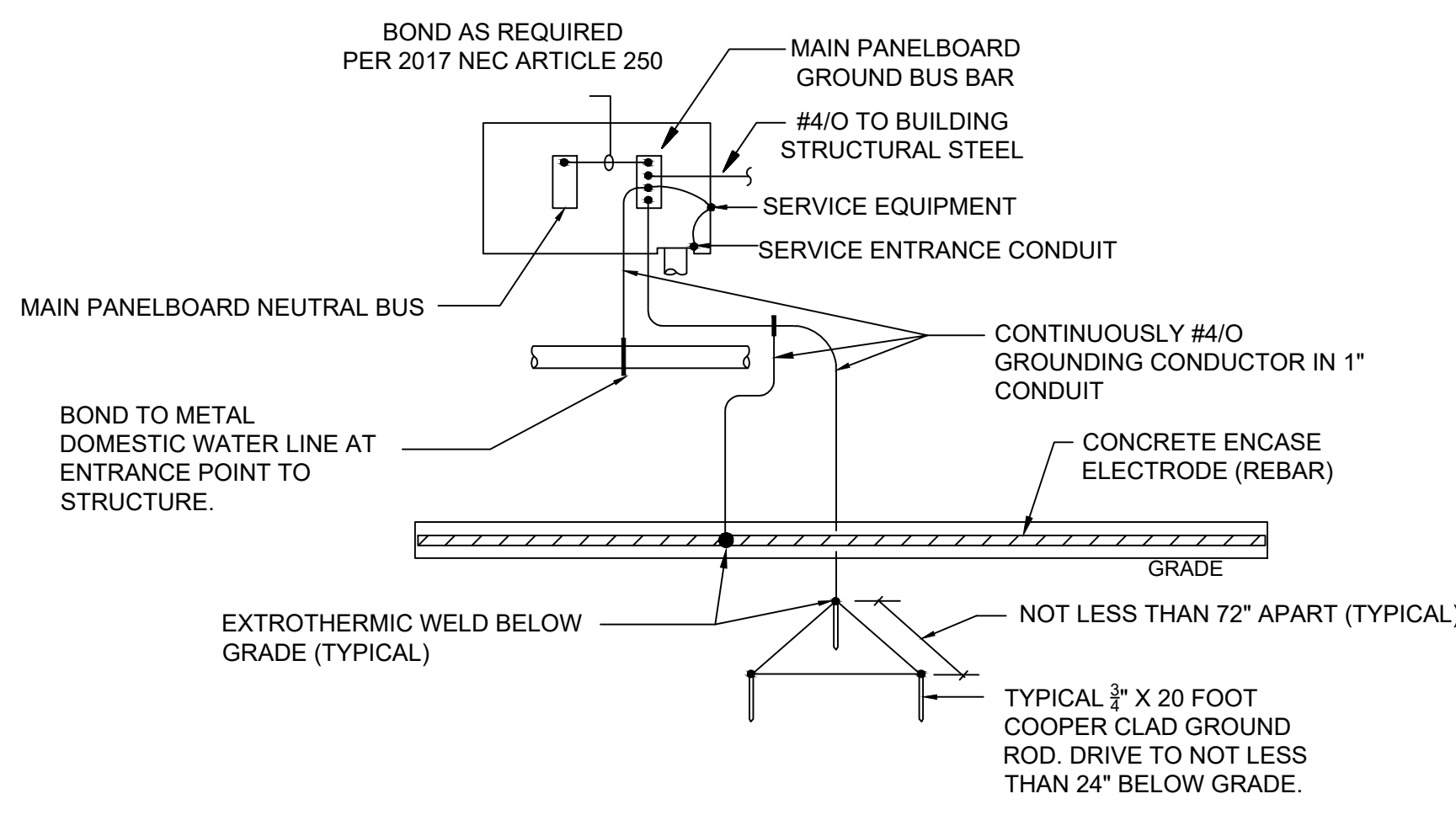
EXOTHERMIC WELD DETAILS  
 NOT TO SCALE

EQUIPMENT FEEDER AND BRANCH CIRCUIT SCHEDULE UON							
OVERCURRENT PROTECTION DEVICE	NUMBER OF SETS	PHASE CONDUCTOR S PER NEC TABLE 310.15(B)(16)	EQUIPMENT GROUND CONDUCTOR	3 PHASE / 4 WIRE CONDUIT SIZE	3 PHASE / 3 WIRE CONDUIT SIZE	1 PHASE / 3 WIRE CONDUIT SIZE	N/A
15	1	12	#12	3/4"	3/4"	3/4"	N/A
20	1	12	#12	3/4"	3/4"	3/4"	N/A
25	1	10	#10	3/4"	3/4"	3/4"	N/A
30	1	10	#10	3/4"	3/4"	3/4"	N/A
35	1	8	#10	1"	1"	3/4"	N/A
40	1	8	#10	1"	1"	3/4"	N/A
45	1	6	#10	1"	1"	1"	N/A
50	1	6	#10	1"	1"	1"	N/A
55	1	6	#10	1"	1"	1"	N/A
60	1	4	#10	1-1/2"	1-1/2"	1-1/2"	N/A
70	1	4	#8	1-1/2"	1-1/2"	1-1/2"	N/A
80	1	3	#8	1-1/2"	1-1/2"	1-1/2"	N/A
90	1	2	#8	1-1/2"	1-1/2"	1-1/2"	N/A
100	1	1	#8	2"	2"	1-1/2"	N/A
110	1	1/0	#6	2"	2"	1-1/2"	N/A
125	1	1/0	#6	2"	2"	1-1/2"	N/A
150	1	1/0	#6	2"	2"	1-1/2"	N/A
175	1	2/0	#6	2"	2"	2"	N/A
200	1	#3/0	#6	2.5"	2.5"	2"	N/A
225	1	#4/0	#4	2.5"	2.5"	2"	N/A
250	1	250KCMIL	#4	3"	3"	2.5"	N/A
300	1	350KCMIL	#4	3"	3"	3"	N/A
350	1	500KCMIL	#3	3.5"	3.5"	3"	N/A
400	1	500KCMIL	#3	3.5"	3.5"	3"	N/A
500	2	250 KCMIL	#2	3"	3"	2.5"	N/A
600	2	350 KCMIL	#1	3"	3"	3"	N/A

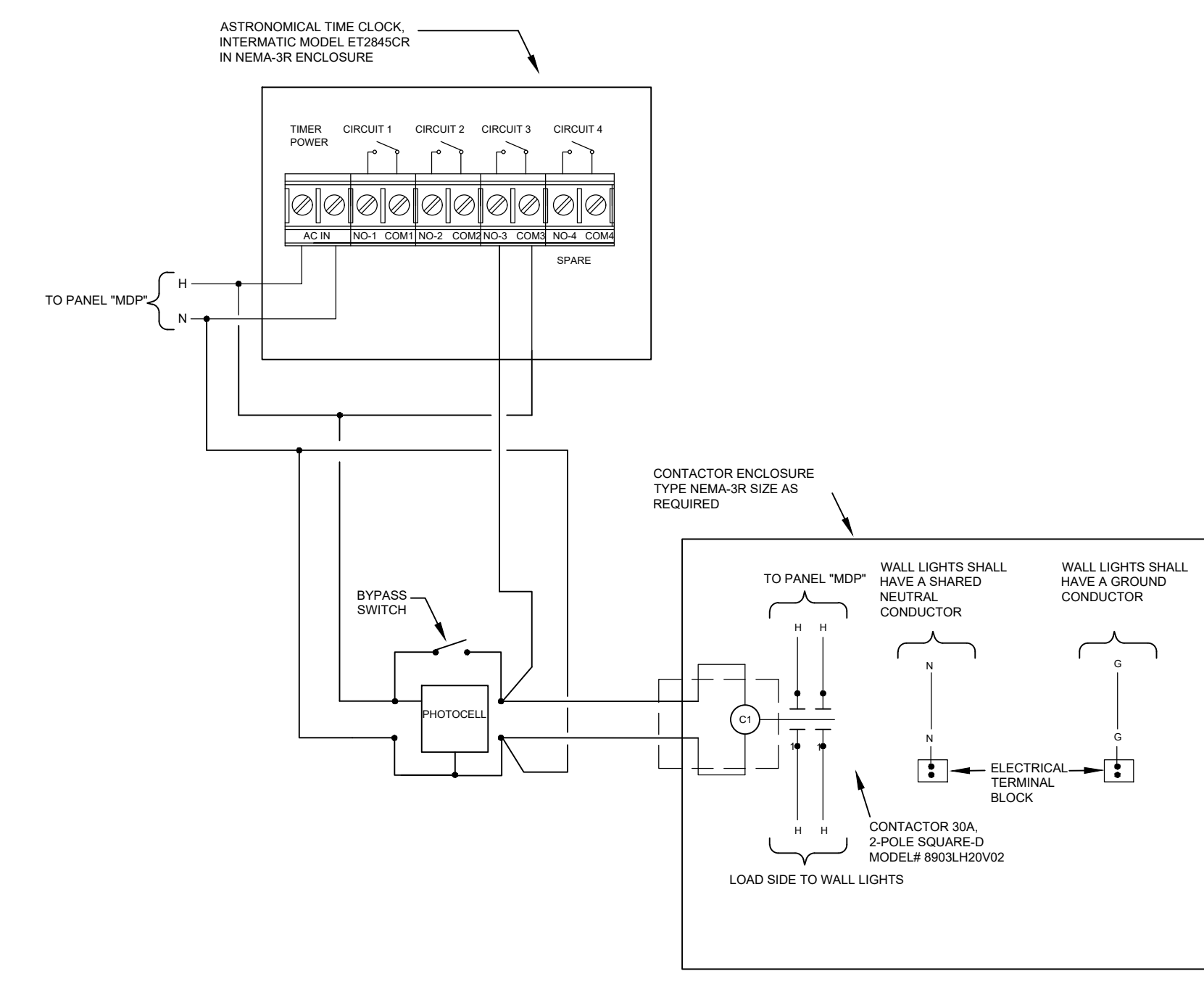
WHEN MANUFACTURE RECOMMEND DIFFERENT OVERCURRENT PROTECTION AND/OR WIRER SIZES OTHER THAN WHATS SHOWN IN THIS TABLE THEN COMPLY WITH MANUFACTURE INSTRUCTIONS.

120 VOLT CIRCUIT WIRING FOR +3% VOLTAGE DROP DISTANCES (FEET) UON					
AMPS	#12 THHN	#10 THHN	#8 THHN	#6 THHN	#4 THHN
24	59	94	150	239	
23	62	98	156	249	
22	64	103	163	261	
21	67	108	171	273	
20	71	113	180	287	
19	75	119	189	302	
18	79	126	200	319	
17	83	133	212	338	
20 AMP OR 30 AMP					
16	55	89	142	225	359
15	59	95	151	240	383
14	62	101	162	257	410
13	68	109	175	277	442
12	74	118	189	300	478
11	81	129	206	327	522
10	89	142	227	360	574
9	99	158	252	400	638
8	111	178	284	450	718
7	127	203	322	507	820
6	148	237	379	600	957
5	178	285	455	720	1149
4	223	356	568	901	1436
3	297	475	758	1201	1915
2	446	713	1137	1802	2873
1	893	1427	1427	3604	5746

PROVIDE CONDUCTORS SIZES INDICATED IN THE ABOVE SCHEDULE UNLESS OTHERWISE NOTED ON THE LIGHTING OR POWER OR SYSTEMS DRAWINGS, HOMERUN JUNCTION BOX TO BE WITHIN 10 FEET OF LAST DEVICE CONNECTED TO CIRCUIT. HOMERUN LENGTHS TO INCLUDE BOTH HORIZONTAL AND VERTICAL ROUTING DISTANCES. INCREASE CONDUCTOR AND CONDUIT PER 2017 NEC AS REQUIRED TO ACCOUNT FOR ANY VOLTAGE DROP. EQUIPMENT GROUND WIRE SIZE SHALL BE PER 2017 NATIONAL ELECTRICAL CODE TABLE 250.122



GROUNDING DETAIL  
 NOT TO SCALE



PHOTOCELL AND TIME CLOCK DETAIL  
 NOT TO SCALE

FOR CONSTRUCTION

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 653 W 23RD STREET, SUITE 307  
 PANAMA CITY, FLA 32405  
 Tel (850)-902-7301, Fax (850)-689-0082

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 CIVIL • ENVIRONMENTAL • PLANNING • LAND SURVEYING  
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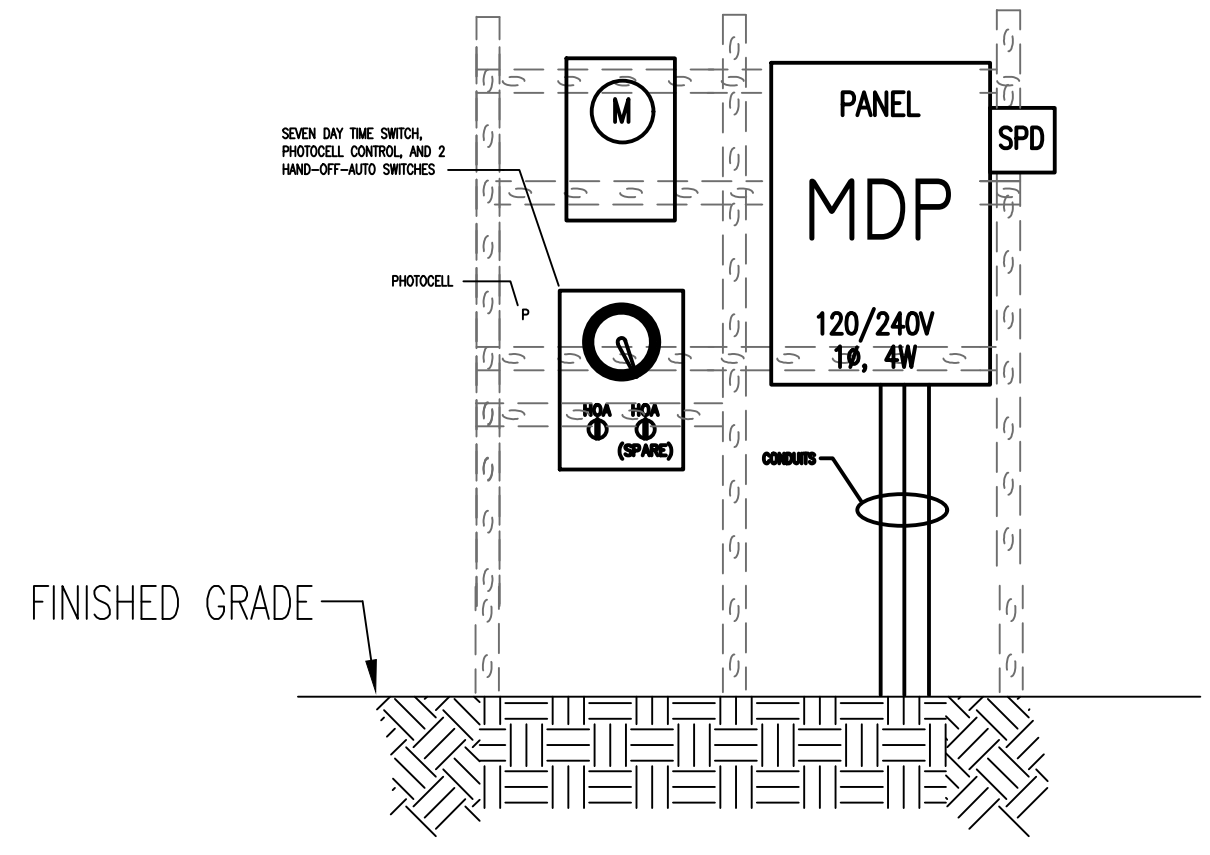
CLIENT: CITY OF TAMPA  
 PROJECT: TAMPA RIVER WALL PLAZA  
 SHEET TITLE: RISER DIAGRAM AND DETAILS

THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.  
 Job J Gammons  
 Digitally signed by Job J Gammons  
 Date: 2021.05.11 13:52:39 -05'00'

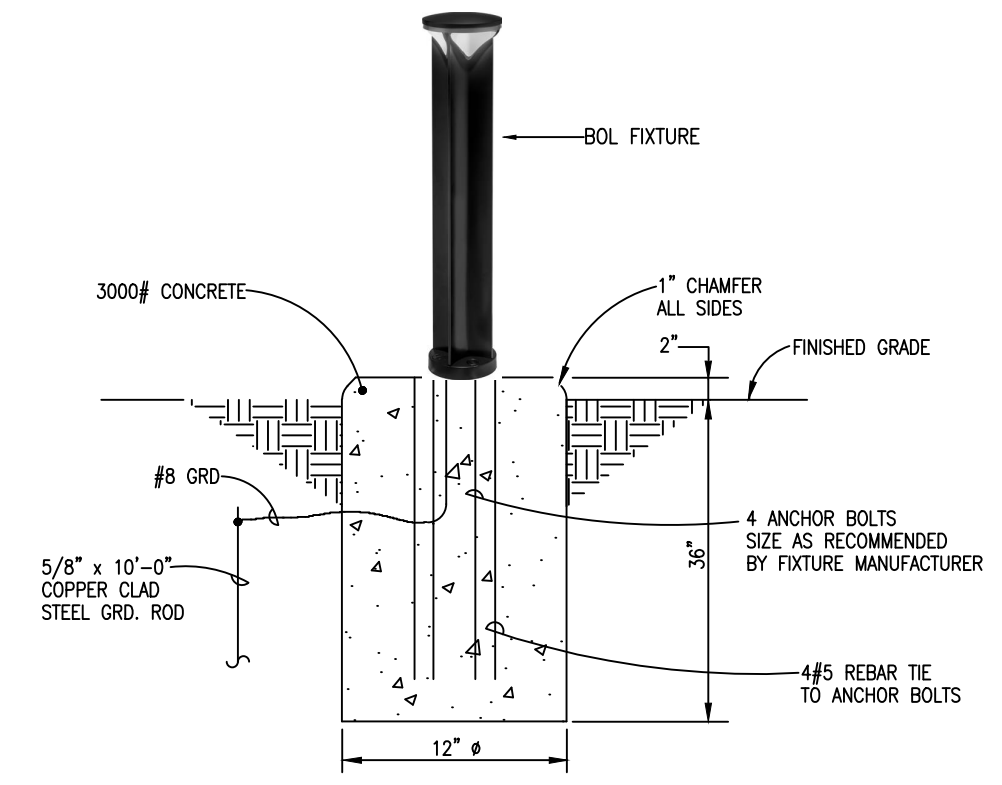
NO	DATE	REVISIONS	INITIAL
1	5/11/2021	CHANGE TO NEC 2017 EDITION	JG

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 DATE: 02/04/2021  
 DWG. NO.: DRAWING\_NO  
 APPVD. BY: J.GAMMONS  
 PROJ. NO. PROJECT\_NO  
 DWG. DRAWING\_NAME  
 SCALE: SCALE

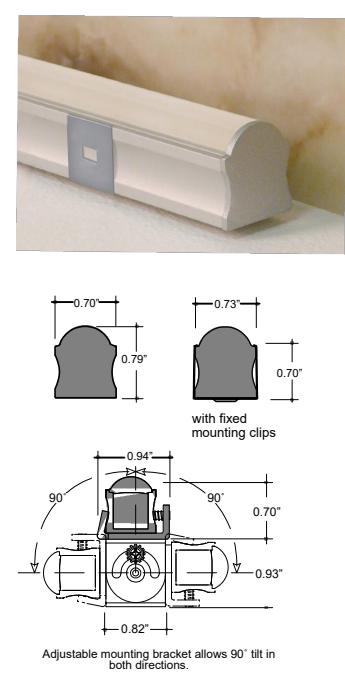
SHEET NO: E3.0  
 3 OF 5



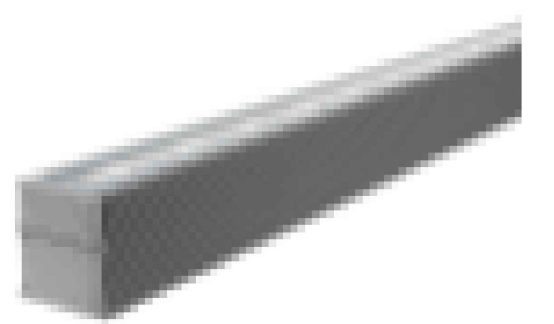
**SERVICE ASSEMBLY DETAIL:**  
 NOT TO SCALE  
 NOTES:  
 1. SERVICE ASSEMBLY ABOVE IS DIAGRAMMATICALLY SHOWN.  
 2. FOUNDATION SHALL BE BURIED MINIMUM 4 FEET BURIED BELOW GRADE.  
 3. SERVICE ASSEMBLY SHALL BE CONSTRUCTED AND BUILT USING UNI-STRIUT TYPE SYSTEM FOLLOWING INDUSTRY BEST PRACTICES AND STANDARDS. UNI-STRIUT SYSTEM SHALL BE GALVANIZED STEEL RATED FOR THE LOCAL WEATHER ELEMENTS AND WORST CASE WEATHER CONDITIONS.  
 4. CONFIRM WITH TAMPA ELECTRIC POWER COMPANY (TECO) SERVICE ASSEMBLY REQUIREMENTS, IF DIFFERENT CONTRACTOR SHALL COMPLY WITH "TECO" REQUIREMENTS.



**LUMINAIRE REQUIREMENTS TYPE "BOL"**  
 NOT TO SCALE  
 NOTES:  
 1. 120V  
 2. "UL" UNDERWRITERS LABORATORY LISTED FOR WET LOCATION  
 3. ATTACH BOLLARD TO CONCRETE FOUNDATION PER MANUFACTURE RECOMMENDATIONS.



**LUMINAIRE REQUIREMENTS TYPE "GW"**  
 NOT TO SCALE  
 NOTES:  
 1. 120V  
 2. "UL" UNDERWRITERS LABORATORY LISTED FOR WET LOCATION



**LUMINAIRE REQUIREMENTS TYPE "LFOP"**  
 NOT TO SCALE  
 NOTES:  
 1. 120V  
 2. "UL" UNDERWRITERS LABORATORY LISTED FOR A FOR WET LOCATION

**PANELBOARD "MDP"**

VOLTAGE: 120/ 240 VOLTS      BUSSING AMPERES: 100A      KAIC RATING: 32  
 PHASE/WIRE: 1P/3W      MAIN LUG: 100A      ENCLOSURE: NEMA-3R  
    NEUTRAL: 200%      MOUNTING: SURFACE

EQUIPMENT	CIRCUIT BREAKER AMPS	POLE	WIRE SIZE	CONDUIT	CKT	AMPS		CKT	CONDUIT	WIRE SIZE	POLE	CIRCUIT BREAKER AMPS	EQUIPMENT
						A	B						
SURGE SUPPRESSOR	30	2	"		1		2.5	2			1	20	WALL LIGHTING
"	"	"	"		3			4			1	20	DUPLEX RECEPTACLE
ROOF LIGHTING	20	1			5	4.9		6					SPACE
SITE LIGHTING	20	1			7	0.3		8					SPACE
SPACE					9	0.0		10					SPACE
SPACE					11	0.0		12					SPACE
SUBTOTAL CONNECTED AMPERES:						4.9	0.3	2.5	1.5				

NOTES:  
 1. PANELBOARD SHALL BE SERVICE EQUIPMENT RATED.  
 2. NEUTRAL AND GROUND SHALL BE BONDED TOGETHER.

TOTAL PHASE A: 7.4 A  
 TOTAL PHASE B: 1.8 A

**LIGHTING FIXTURE SCHEDULE**

MARK	MANUFACTURE & PART NUMBER	LAMP			VOLTAGE	MOUNTING	DESCRIPTION AND NOTES
		TYPE	QUANTITY	WATTAGE PER LAMP			
BOL	LITHONIA RADB LED P2 40K SYM DDBXD	LED	4	8	120	BOLLARD	LUMENS 3588
GW	LUMINII KMWG-48-40K-VHO-11-XX-WH-F1	LED	20	29.2	120	SURFACE	LUMENS 1423, MOUNT IN CEILING.
LFOP	A LIGHT D58FTLH40KUKSPB-DQ	LED	3	304	120	RECESSED	3 EACH 8' FIXTURES, 3588 LUMENS

NOTES:  
 1. CONTRACTOR SHALL MOUNT BOLLARD TO CONCRETE FOUNDATION PER LIGHTING MANUFACTURE AND/OR PROJECT STRUCTURE ENGINEER RECOMMENDATIONS.

**ELECTRICAL LOAD ANALYSIS**  
 NAME: SERVICE CALCULATIONS  
 SERVICE: 120/240V, 1-PHASE, 4 WIRE  
 OCCUPANCY: TAMPA RIVER WALL PROJECT

		CONNECTED LOAD VOLT-AMPS	DIV%	CALCULATED LOAD VOLT-AMPS	DEMAND LOAD VOLT-AMPS	COMMENTS
1	LIGHTS (SELECT LARGER OF (a) or (b))					
	(a) CONNECTED LOAD:	N/A				
	(b) 8,407 SF X 3 VA = 25,221 VA	N/A			1,502	TABLE 220-12, 2017 NEC, *1.25%
2	RECEPTACLES:					PER NEC 2017 FIRST 10KVA @ 100%, REMAINDER @ 50%
	3VA	3		3		
		0				
TOTALS VA:		3		3.00	1,502 VA	
TOTAL KVA:					2 KVA	
CURRENT PER PHASE = $\frac{VA}{SQ3 \times 240V}$ =					3.61 A	

THE AMPS INCLUDE 125% ASSUMING LOADS RUIN CONTINUOUS

**FOR CONSTRUCTION**

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CLIENT: **CITY OF TAMPA**

PROJECT: **TAMPA RIVER WALL PLAZA**

SHEET TITLE: **SCHEDULES AND DETAIL**

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DRAWN BY: J.GAMMONS  
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 PROJ. NO. PROJECT\_NO  
 DWG. DRAWING\_NAME  
 SCALE: NONE

NO	DATE	REVISIONS	INITIAL
1	5/11/2021	CHANGE TO NEC 2017 EDITION	JG

SHEET NO: **E4.0**  
 4 OF 5

City of Tampa  
 PLAN APPROVAL  
 BLD-21-0482262 5/17/2021  
 THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES  
 It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.  
 The Stamping of this plan shall not be held to permit or approve the violation of any City or State Codes  
 REVIEWED FOR CODE COMPLIANCE

SP-CIFICATIONS (APPLIES TO ALL SHEETS)

**SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS**

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: NEW, LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
- COLOR ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WIDE BY 0.08 MM THICK).
- TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAP AROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. (129 SQ. CM) AND 1/8-INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND.
- PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
- COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT THE PROJECT.
- CUT, CHANNEL, CHASE, AND DRILL WALLS, PARTITIONS, CEILINGS AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. SLEEVE ALL CABLE PENETRATIONS OF WALLS. SEAL ALL CONDUIT PENETRATIONS.
- REPAIR, REFINISH, AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
- ALL WORK SHALL COMPLY WITH ALL CODES & STANDARDS LISTED ON THE PLANS.

**SECTION 16060 - GROUNDING AND BONDING**

- EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.
- INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
- ALL GROUNDING CONDUCTORS SHALL BE COPPER: COMPLY WITH DEVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
- EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

**SECTION 16120 - CONDUCTORS AND CABLES**

- CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER. ALUMINUM CONDUCTORS NOT PERMITTED.
- CONDUCTOR INSULATION TYPES: TYPE THHN-THWN COMPLYING WITH NEMA WC 5 OR WC 7
- TYPE NM CABLE: NOT PERMITTED.
- MC CABLE NOT PERMITTED.
- EXPOSED FEEDERS, AND FEEDERS CONCEALED IN CONCRETE OR BELOW SLAB OR BELOW GRADE: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
- CONDUIT SHALL BE 1/4 INCH MINIMUM.
- BRANCH CIRCUITS & FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY, OR MC CABLE WHERE ALLOWED BY CODE.
- CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS.
- USE MANUFACTURER - APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT ARE EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.
- FREE CABLES ABOVE CEILING, NOT IN CONDUIT SHALL BE PLENUM RATED.

**SECTION 16130 - RACEWAYS AND BOXES**

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 3/4" TRADE SIZE.
- KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.
- PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
- MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS AND CEILINGS.
- INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES: FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT: AND FOR ALL MOTORS. USE LFMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- ALL RACEWAYS ABOVE GRADE SHALL BE METALLIC (EMT, IMC, OR RGSC): RACEWAYS BELOW GRADE OR IN-SLAB SHALL BE IMC, RGSC, OR RNC. EMT CONNECTORS & COUPLINGS SHALL BE STEEL COMPRESSION TYPE.

**SECTION 16140 - WIRING DEVICES**

- STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY WITH NEMA WD 1, NEMA WD 6, DSCC W-C-596G, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES: HEAVY-DUTY GRADE.
- GFCI RECEPTACLES: STRAIGHT BLADE, HEAVY-DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND UL 943. DESIGN UNITS FOR INSTALLATION IN A 2-3/4-INCH (70-MM-) DEEP OUTLET BOX WITHOUT AN ADAPTER.
- SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 20.
- SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
- FINISHES: WHITE, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70.
- INSTALL DEVICES AND ASSEMBLIES LEVEL PLUMB, AND SQUARE WITH BUILDING LINES.
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
- ADJUST LOCATIONS OF FLOOR SERVICE OUTLETS AND SERVICE POLES TO SUIT ARRANGEMENT OF PARTITIONS AND FURNISHINGS.
- AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS
- TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL DEVICE PLATES SHALL BE NON-BREAKABLE, LEXAN TYPE.

**SECTION 16511 - LIGHTING**

- LIGHTING FIXTURES: PER LIGHTING FIXTURE SCHEDULE. ALL LIGHTING SHALL BE THE LED TYPE
- UNLESS OTHERWISE INDICATED, THD SHALL BE LESS THAN 20%, CURRENT CREST FACTOR LESS THAN 1.7, OPERATING FREQUENCY GREATER THAN 20KHZ.
- WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
- FIXTURES: SET LEVEL PLUMB, AND SQUARE AND/OR MANUFACTURE RECOMMENDATIONS.
- PROVIDE BLOCKING, BACKBOXES, SUPPORTS, AND OTHER HARDWARE AS NEEDED FOR A COMPLETE FUNCTIONAL INSTALLATION PER MANUFACTURE RECOMMENDATIONS.
- FOR EMERGENCY LIGHTING, PROVIDE UNSWITCHED NORMAL POWER CONDUCTOR AS INDICATED ON THE PLANS.
- CONTRACTOR SHALL PROVIDE MANUFACTURE LIGHTING FOOT-CANDLE PLAN AND SHOP DRAWING.
- BASIS OF DESIGN WAS BASE ON INFORMATION PROVIDED BY MR. DAN SROKA OF ENVISION LIGHTING SYSTEMS PHONE 941-243-0608. CONFIRM LIGHTING SPECIFICATIONS WITH HIS OFFICE PRIOR TO SUBMITTING A BID AND/OR ORDERING ANY MATERIAL.
- A BID SHALL BE SUBMITTED THAT WOULD PROVIDE A LIGHTING SYSTEM AND HARDWARE INSTALLATION THAT IS FULLY FUNCTIONAL AND OPERATIONAL PER MANUFACTURE RECOMMENDATIONS, AND INDUSTRY BEST PRACTICES AND STANDARDS AND PER LOCAL CODES.

**SECTION 16410 - ENCLOSED SWITCHES**

- ENCLOSE SWITCHES SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- EXTERIOR ENCLOSED SWITCHES SHALL BE LOCKABLE.
- MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED: ENCLOSURES SHALL BE NEMA 1 FOR INDOORS, NEMA 3R FOR OUTDOORS.
- FIELD-COORDINATE EXACT LOCATION OF SWITCHES WITH EQUIPMENT SERVED, AND OTHER TRADES, TO ASSURE MINIMUM N.E.C. CLEARANCE REQUIREMENTS ARE MET.
- PROVIDE PERMANENT LABELING OF EACH SWITCH TO INDICATE PANEL AND CIRCUIT SWITCH IS FED FROM (E.G., "A-4,6"). FOR CONDENSER UNITS, ALSO INDICATE AREA EQUIPMENT SERVES (E.G., "RM 101"), PROVIDE WEATHERPROOF LABELING OF EXTERIOR SWITCHES.

**SECTION 16442 - PANELBOARDS**

- MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER OF THE EATON CORPORATION, GE, OR SIEMENS.
- ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1, OR TYPE 3R AS INDICATED.
- PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
- SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AS NOTED ON THE PANEL SCHEDULES.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER.
- MOUDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
- PROVIDE AS-BUILT PANEL DIRECTORIES, CLEARLY INDICATING DEVICES/EQUIPMENT SERVED AND LOCATION (E.G., "RECEPTACLES-RM 101"). IN THE CASE OF CONDENSER UNITS, PANEL DIRECTORIES SHALL INDICATE MECHANICAL DESIGNATION AS WELL AS THE AREA THE MECHANICAL UNIT SERVICES (E.G., "HP-1 RM 101").

**ENERGY CONSERVATION REQUIREMENTS:**

- WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS, OPERATING MANUAL AND MAINTENANCE MANUALS TO THE BUILDING OWNER.
- RECORD DRAWINGS SHALL INCLUDE: A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM: AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
- CONTRACTOR SHALL PROVIDE OPERATION MANUALS AND MAINTENANCE MANUALS TO THE OWNER FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE; REQUIRE ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- CONTRACTOR SHALL PROVIDE TO THE OWNER NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

**FOR CONSTRUCTION**

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CLIENT: **CITY OF TAMPA**

PROJECT: **TAMPA RIVER WALL PLAZA**

SHEET TITLE: **SPECIFICATIONS**

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 THIS PLAN HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JOE J. GAMMONS ON DATE 05/17/2021. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

<b>DRAWN BY:</b> J.GAMMONS	<b>NO</b>	<b>DATE</b>	<b>REVISIONS</b>	<b>INITIAL</b>	<b>SHEET NO</b> <b>E5.0</b> <b>5 OF 5</b>
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<b>SCALE:</b> N/A					