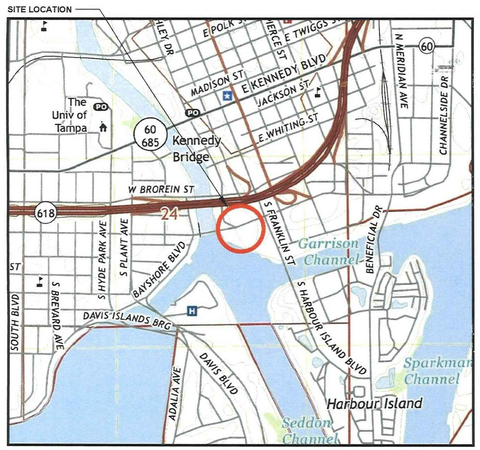
100% CONSTRUCTION DOCUMENTS
CONTRACT NO. 20-C-00018 RIVERWALL PLAZA
ASHLEY DRIVE AT CHANNELSIDE DRIVE, TAMPA FLORIDA

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

SHEET INDEX

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

SPECTRA ENGINEERING & RESEARCH, INC

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

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.

CONSULTANT: SPECTRA ENGINEERING & RESEARCH INC.

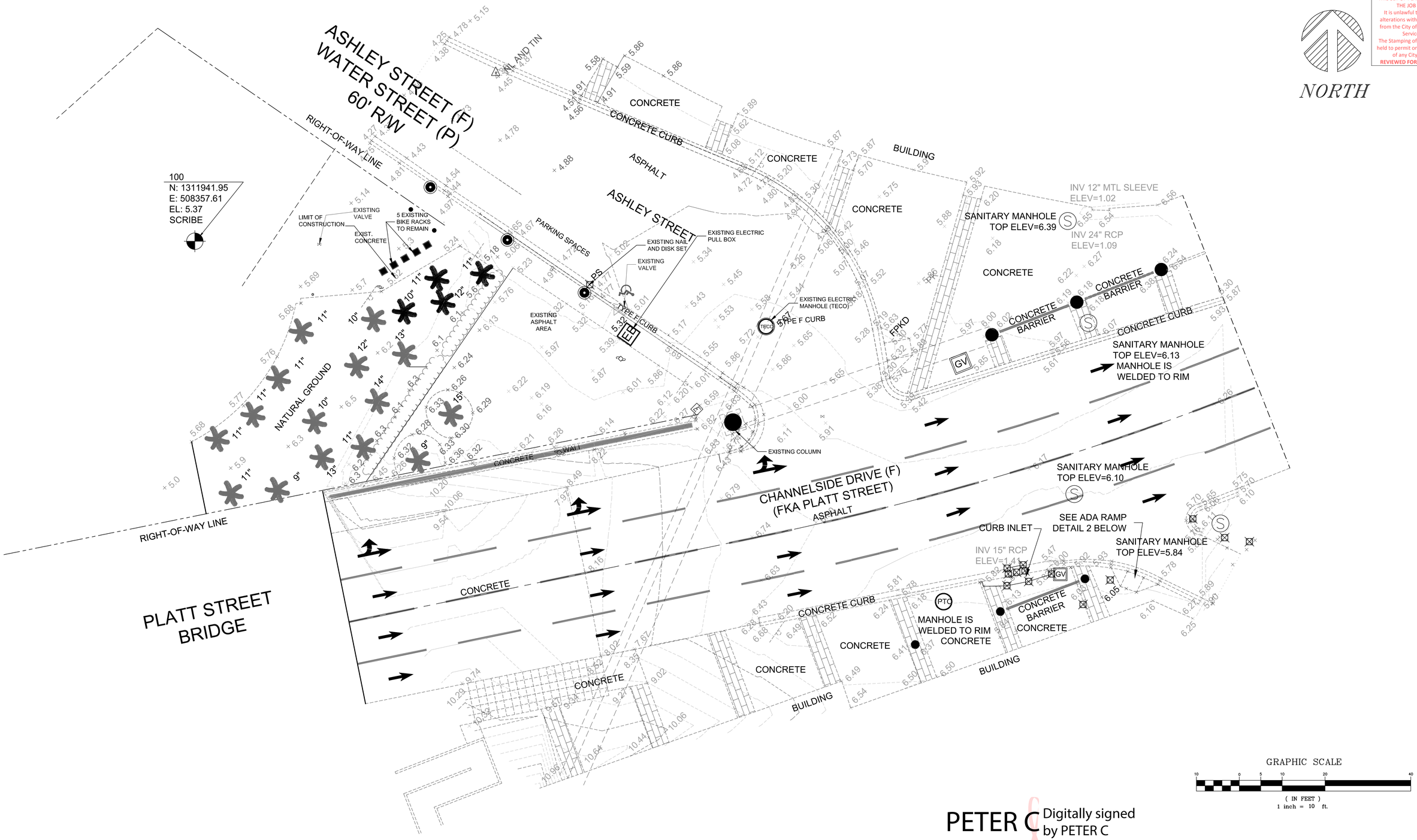
, Suite B
Tallahassee, Florida 32301
PHONE (850) 656-9834
FAX : (850) 942-2717
Web: http://www.spectraengr.com
E-mail:Spectra@Spectraengr.com

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

PETER C OKONKWO

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

NORTH



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

PETER C OKONKWO

Digitally signed by PETER C OKONKWO
Date: 2021.02.05 14:11:21 -05'00'

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

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*

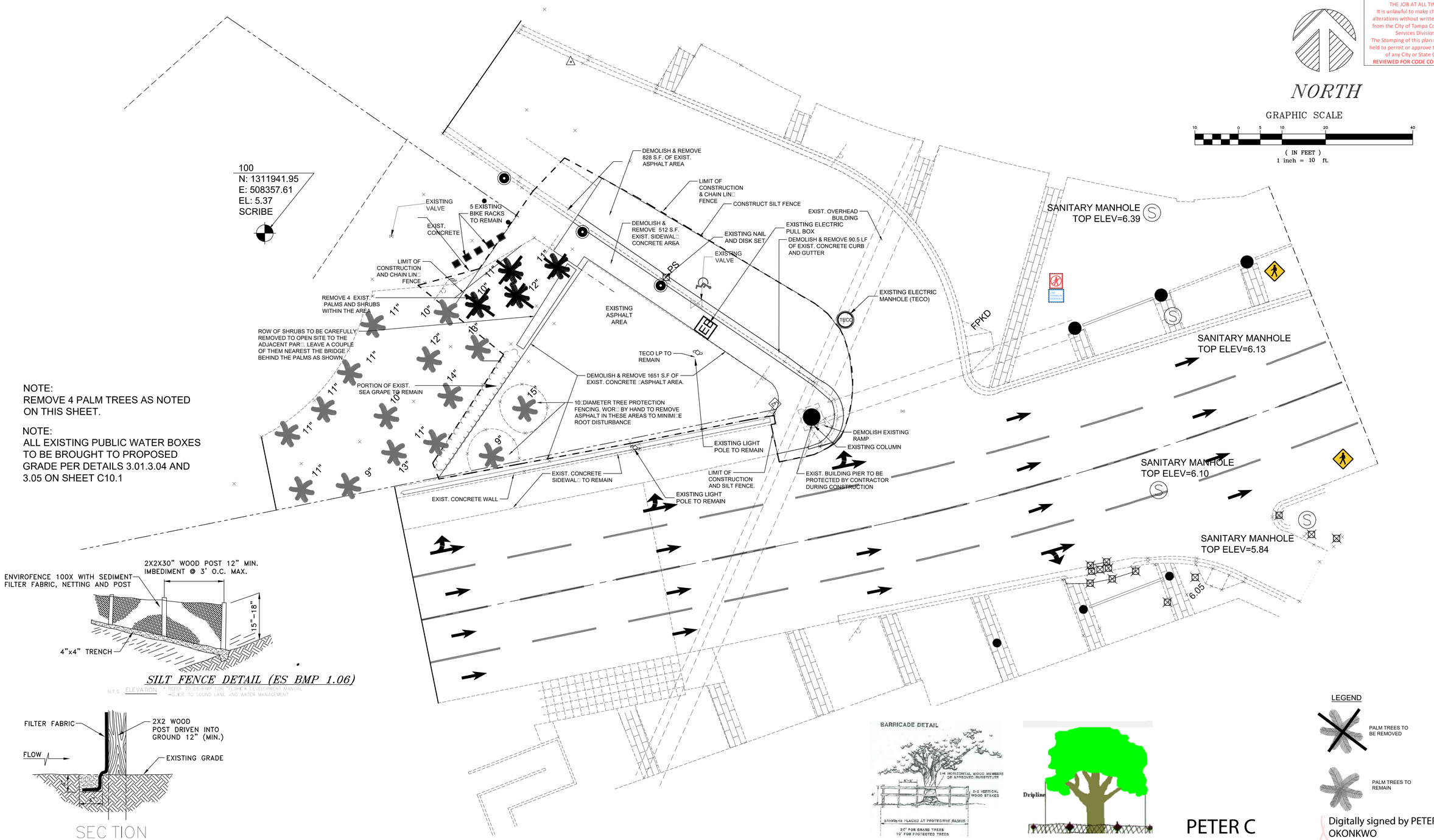
SHEET TITLE: *EXISTING CONDITION PLAN*

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

		REVISIONS	INITIAL

SHEET NO C2.0

2 OF 15



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 -A GUIDE TO SOUND LAND AND WATER MANAGEMENT"

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'

SPECTRA ENGINEERING & RESEARCH, INC.	CLIENT: CITY OF TAMPA	PROJECT: TAMPA RIVERWALL PLAZA	SHEET TITLE: DEMOLITION PLAN

SPECTRA ENGINEERING & RESEARCH, INC.
NBR#=LB5698 CA# =5698
CIVIL ◉ ENVIRONMENTAL ◉ PLANNING ◉ LAND SURVEYING
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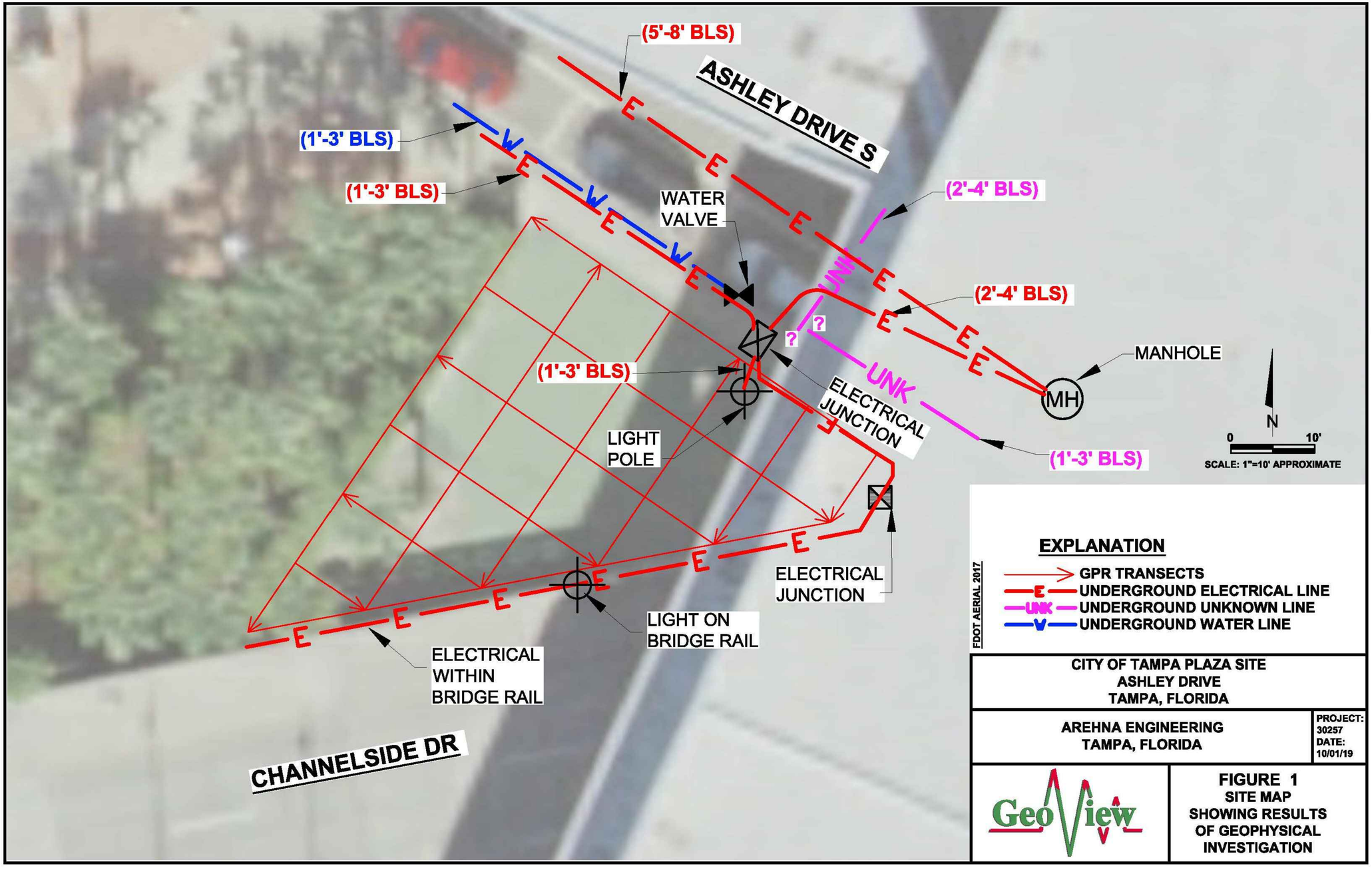
PETER C. OKONKWO, P.E.
FLA. REGISTRATION NO. 51459

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



EXPLANATION

- GPR TRANSECTS
- E — UNDERGROUND ELECTRICAL LINE
- UNK — UNDERGROUND UNKNOWN LINE
- W — 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'

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

SPECTRA ENGINEERING & RESEARCH, INC.
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Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: *CITY OF TAMPA*

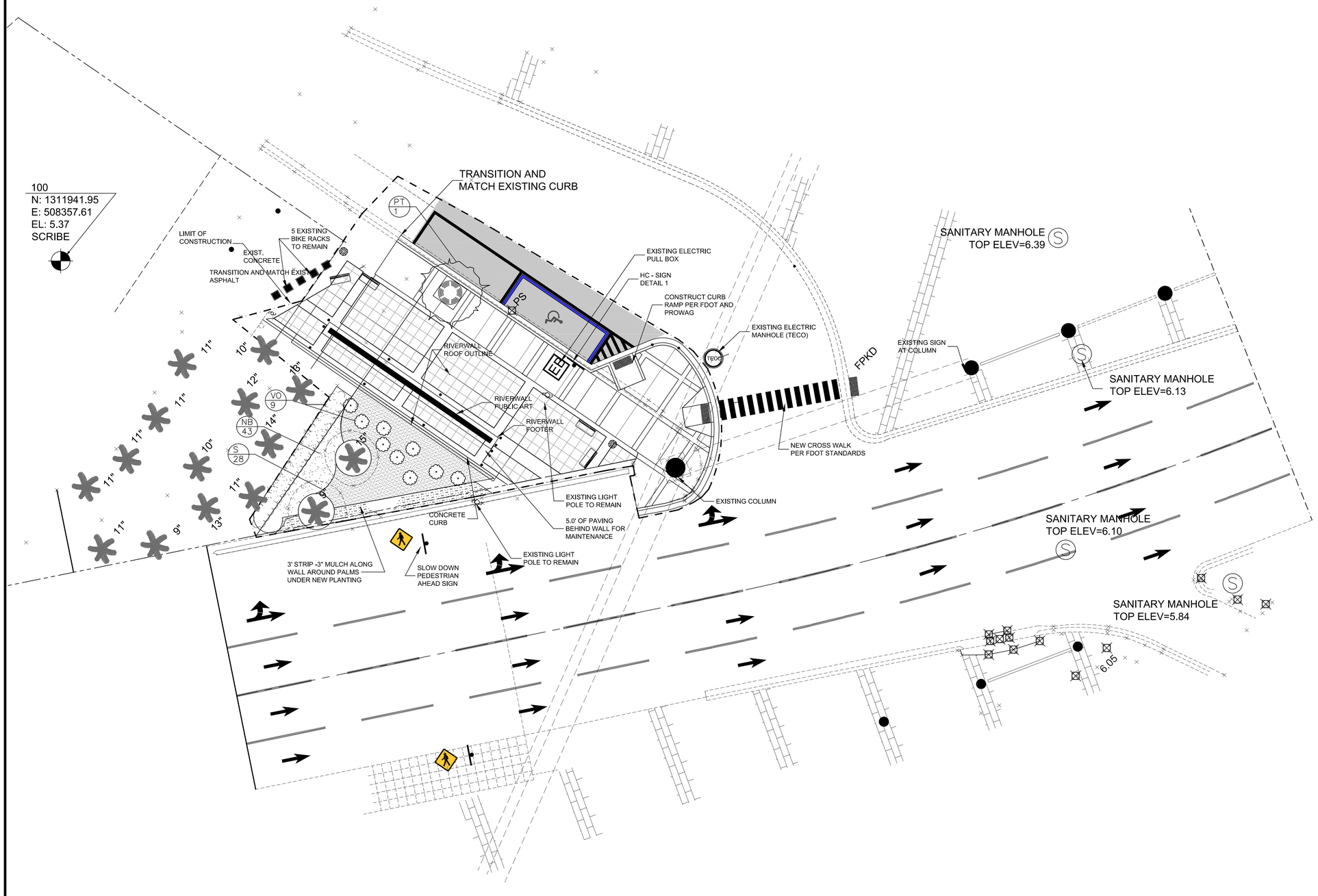
PROJECT: *TAMPA RIVERWALL PLAZA*

SHEET TITLE: *SUBSURFACE SCAN*

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



LANDSCAPING SCHEDULE

SYMBOL	ABBREVIATION	QUANTITY	BOTANICAL NOMENCLATURE	COMMON NAME	SIZE/SPAC./REM	MAINTENENCE	PLANT LIST
TREES							
	PT	1	LAGARSTRODEMIA FAUREI "MUSKOGEE"	CRAPE MYRTLE	3" CALIPER; 8' CLEAR TRUNK, FLORIDA #1	PLANTED IN METAL TREE GRATE IN SIDEWALK	
SHRUBBERY							
	VO	9	ZAMIA PUMILA	COONTIE	STAGERED 7 GAL.		
GROUND COVER							
	S	28	SPARTINA BAKERI	SAND CORDGRASS	3 GALLION		
	NB	43	NEPHROLEPIS EXALTARA	FERN	NATIVE BOSTON FERN	3 GALLION	
				MULCH	MINI PINE DARK	3" DEPTH	

PALM TREES RETAINED ON SITE			
DIAMETER (INCHES)	# RETAINED ON SITE	MULTIPLIER FOR CREDIT	CREDIT
	15	1	15

PALM TREES REMOVED FROM THE SITE	
4	4
TOTAL DEBITS	4
MITIGATION REQUIRED	0

PALM TREES TO REMAIN

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

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FLA. REGISTRATION NO. 51459

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Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: *CITY OF TAMPA*

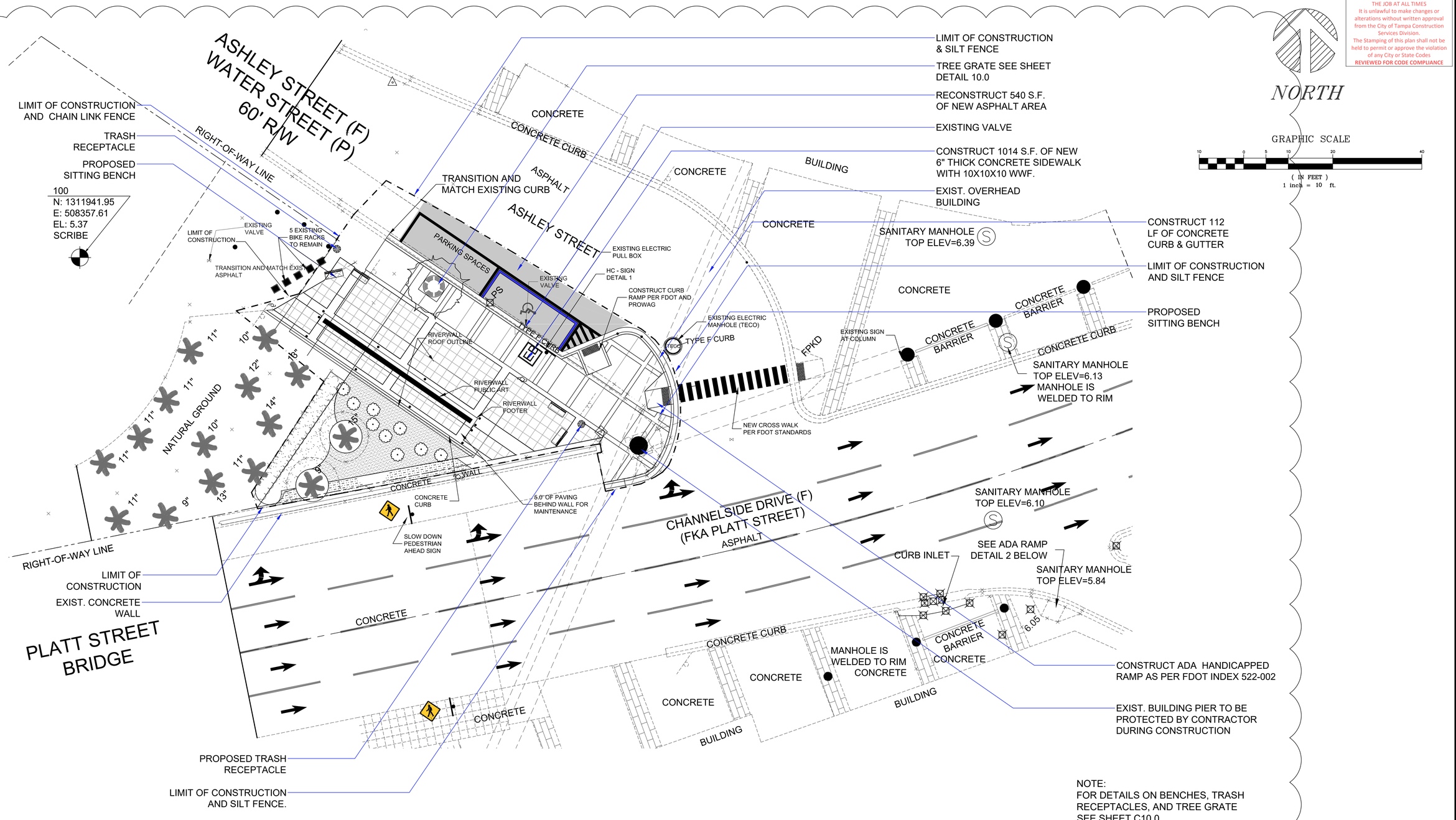
PROJECT: *TAMPA RIVERWALL PLAZA*

SHEET TITLE: *LANDSCAPE PLAN*

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 5.0
5 OF 15



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

SPECTRA ENGINEERING & RESEARCH, INC.
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Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: *CITY OF TAMPA*

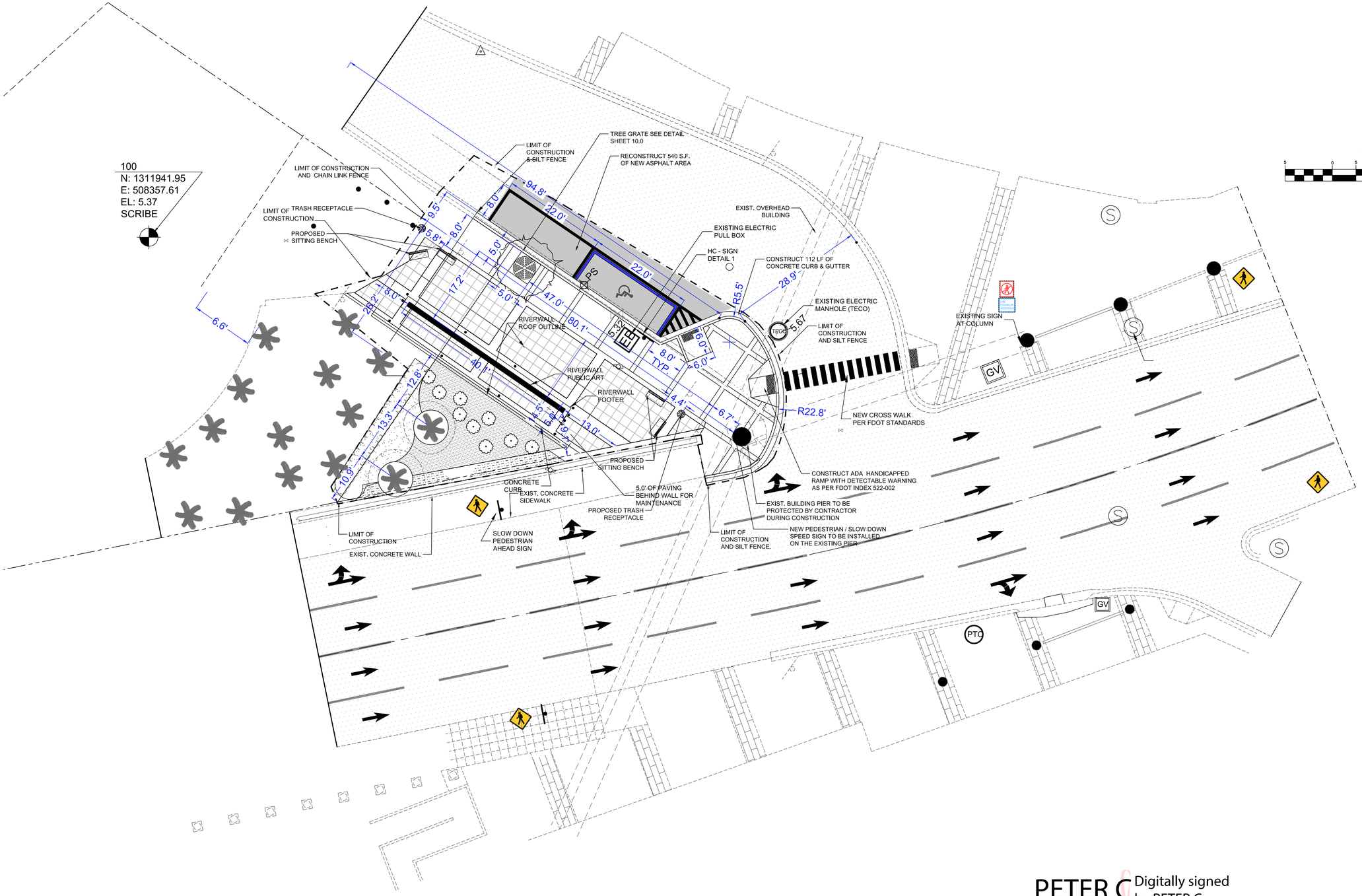
PROJECT: *TAMPA RIVERWALL PLAZA*

SHEET TITLE: *PROPOSED SITE PLAN*

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

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

SHEET NO
C 6.0
6 OF 15



NORTH
GRAPHIC SCALE
5 0 5 5 10 20
(IN FEET)
1 inch = 10 ft.

1 HANDICAPPED SIGN
SCALE: NTS

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

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

SPECTRA ENGINEERING & RESEARCH, INC.
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CLIENT: *CITY OF TAMPA*

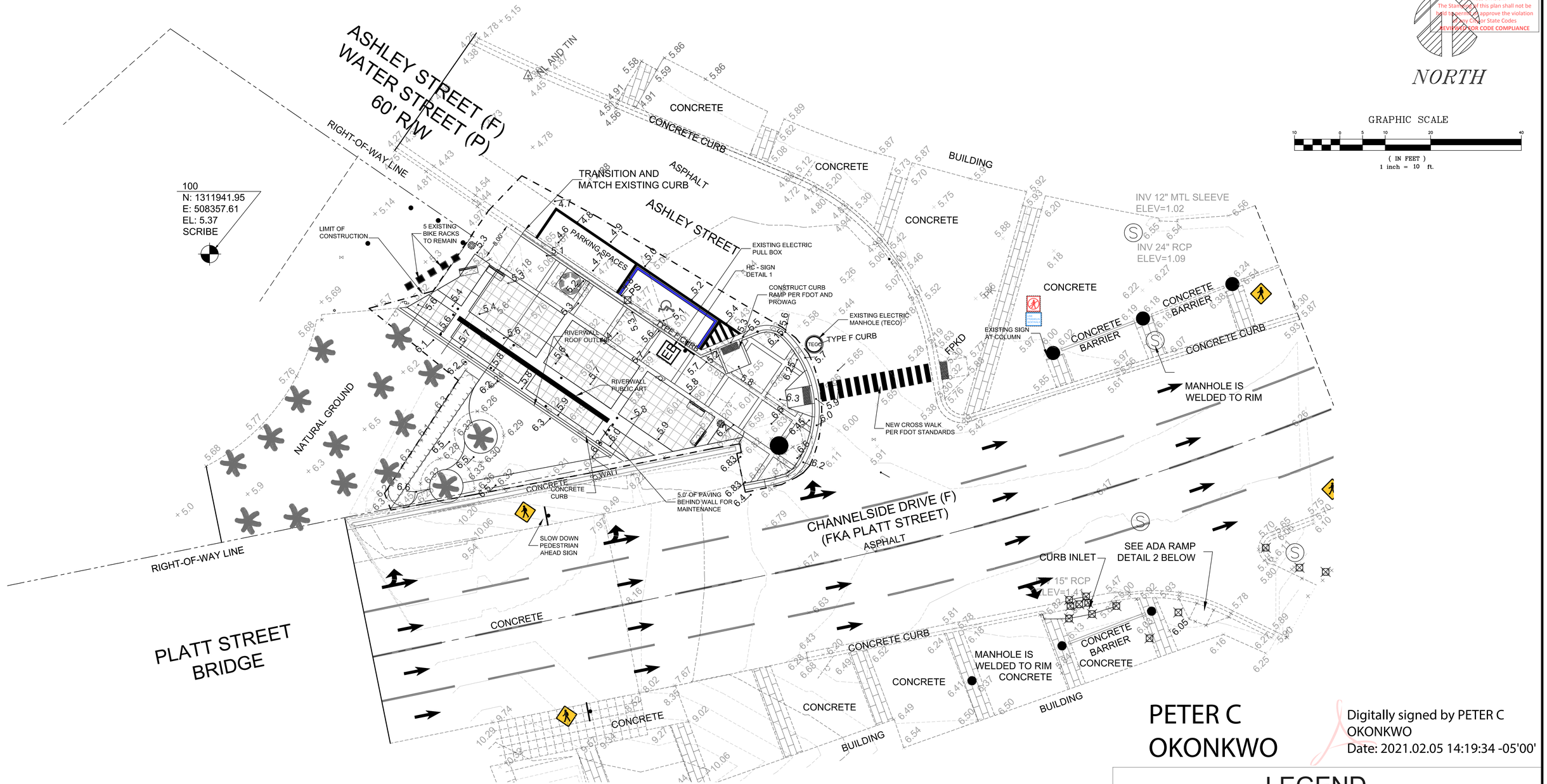
PROJECT: *TAMPA RIVERWALL PLAZA*

SHEET TITLE: *GEOMETRY PLAN*

DRAWN BY:	FA
DATE:	10/07/2019
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



2 RIVERWALL PLAZA GRADING & DRAINAGE PLAN
Scale:

PETER C OKONKWO

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

LEGEND

+ 4.26 EXISTING SPOT ELEVATION

4.26 NEW SPOT ELEVATION

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: *GRADING AND DRAINAGE PLAN*

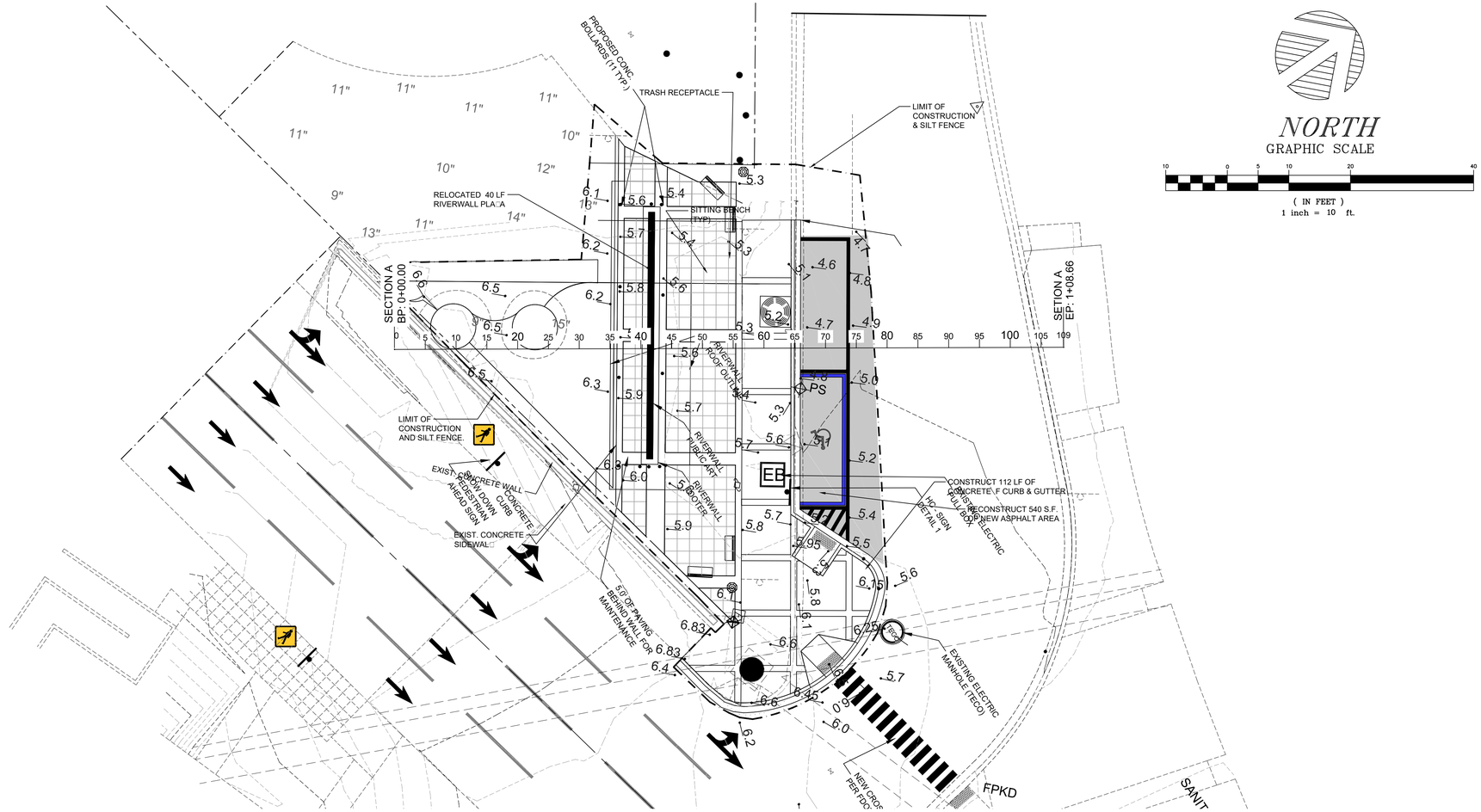
THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.

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

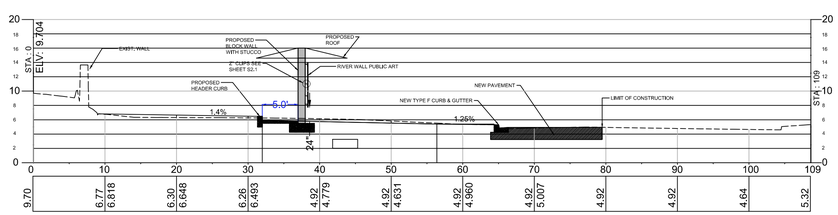
DRAWN BY:	FA
DATE:	10/07/2019
DWG. NO.:	19-016
APPVD. BY:	PCO
PROJ. NO.	19-016
DWG.	DEMOLITION
SCALE:	AS SHOWN

		REVISIONS	INITIAL

SHEET NO
C 8.0
8 OF 15



1 PLAN VIEW
Scale: 1:1□



2 RIVERWALL PLAQUE SECTION A
Scale:□□ 1:1□□V: 1:1

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

THIS ITEM IS SIGNED FOR CONSTRUCTION PURPOSES ONLY BY THE ENGINEER OF RECORD.

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

SPECTRA ENGINEERING & RESEARCH, INC.
NBR#=LB5698 CA# =5698
CIVIL ◉ ENVIRONMENTAL ◉ PLANNING ◉ LAND SURVEYING
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*

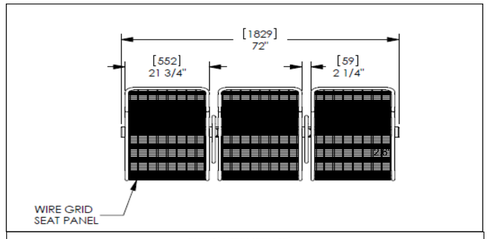
SHEET TITLE: *CROSS SECTIONS*

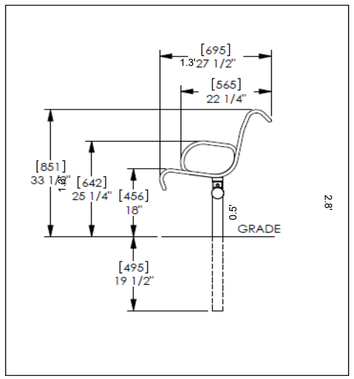
DRAWN BY:	FA
DATE:	10/10/2019
DWG. NO.:	19-016
APPVD. BY:	PCO
PROJ. NO.	19-016
DWG.	SECTION A
SCALE:	AS SHOWN

		REVISIONS	INITIAL

SHEET NO
C 9.0
9 OF 15

Plexus-II™ Seats, Backed, 3 Seat Straight, Embedded, Intermediate Arms Only
Product Drawing www.landscapeforms.com Date: 6/11/2010 Ph: 800.521.2546

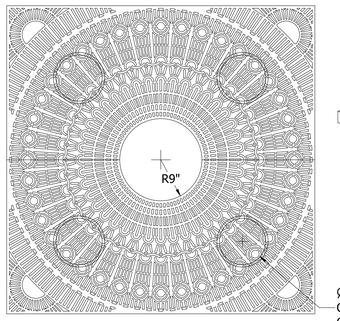




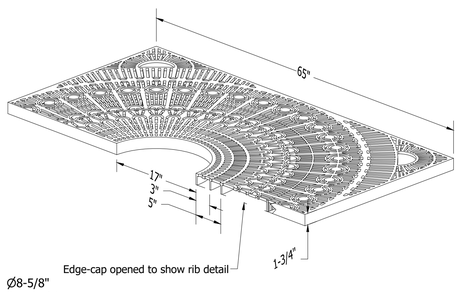
Drawing: LX223-32
Dimensions are in inches [mm]

Bench Detail

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



Plan View



Sectional View

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 | E-mail: info@canterburydesigns.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

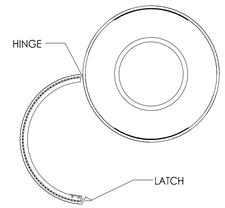
SUPPLEMENTAL MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION

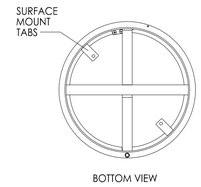
THE MAINTENANCE OF TRAFFIC PLAN (MOT) IS PROVIDED ON SHEET C12.0 PER FDOT REGULATION AND STANDARDS. HOWEVER, THIS ADDITIONAL MOT DIRECTIVES IS BEING RECOMMENDED/PROVIDED TO SUPPLEMENT AND AID MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

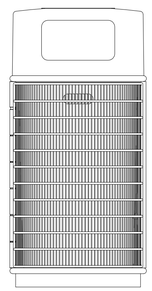
1. INSTALL A LANE CLOSURE SIGNAGE AT OR NEAR THE INTERSECTION OF CHANNELSIDE DRIVE AND PLATT STREET BRIDGE.
2. INSTALL ADDITIONAL SIGNAGE AND FLAGGING AS REQUIRED BY FDOT.
3. USING APPROPRIATE SIGNAGE, CONES, ETC, CLOSE THE FARTHEST LEFT LANE ON CHANNELSIDE DRIVE UP TO AND CONNECTING TO THE PROPOSED 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.

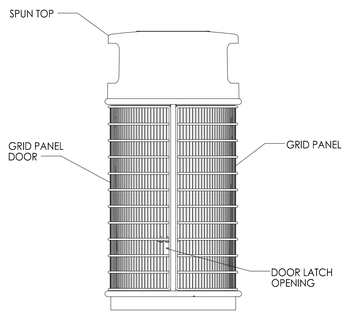
NOTE: FOR ADDITIONAL MOT PLAN SEE SHEET C12.0

Plexus—II™ Litter Receptacle, 20in Dia / 30 Gallon Side Opening, Freestanding / Surface Mount, With Dated Pan
Product Drawing www.landscapeforms.com Date: 7/18/2010 Ph: 800.521.2546









landscapeforms 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.
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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: *SITE FURNISHING DETAILS*

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

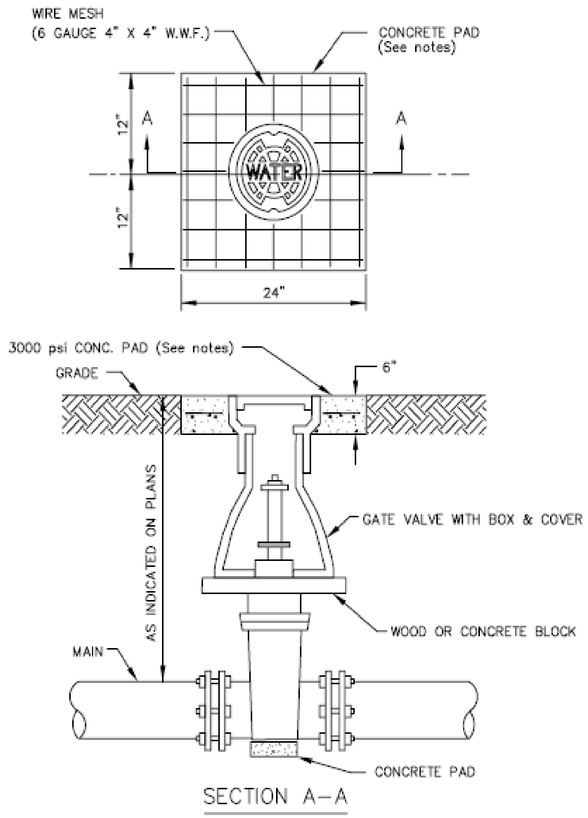
PETER C. OKONKWO, P.E.
FLA. REGISTRATION NO. 51459

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

K:\Standard Details 02\301



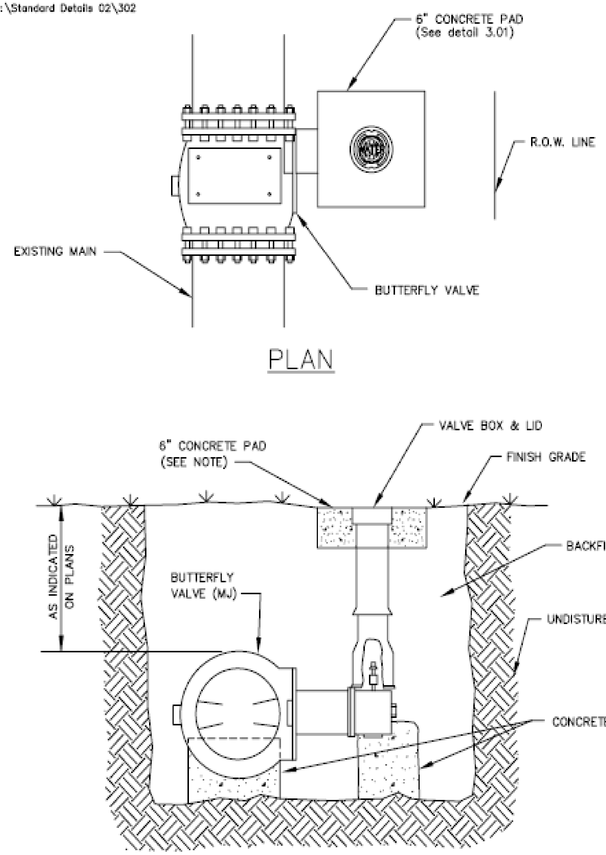
SECTION A–A

Notes :

1. Pad required for all applications.
2. Cast iron valve boxes shall be firmly supported and centered plumb over the operating nut of the valve by the contractor with valve box cover flush with the surface of the finished pavement or at such other level as may be directed.
3. Locate discs required for all valves.

TAMPA WATER DEPARTMENT	APPROVED	REVISED	TYPICAL GATE VALVE VALVE BOX AND PAD INSTALLATION	3.01

K:\Standard Details 02\302



PLAN

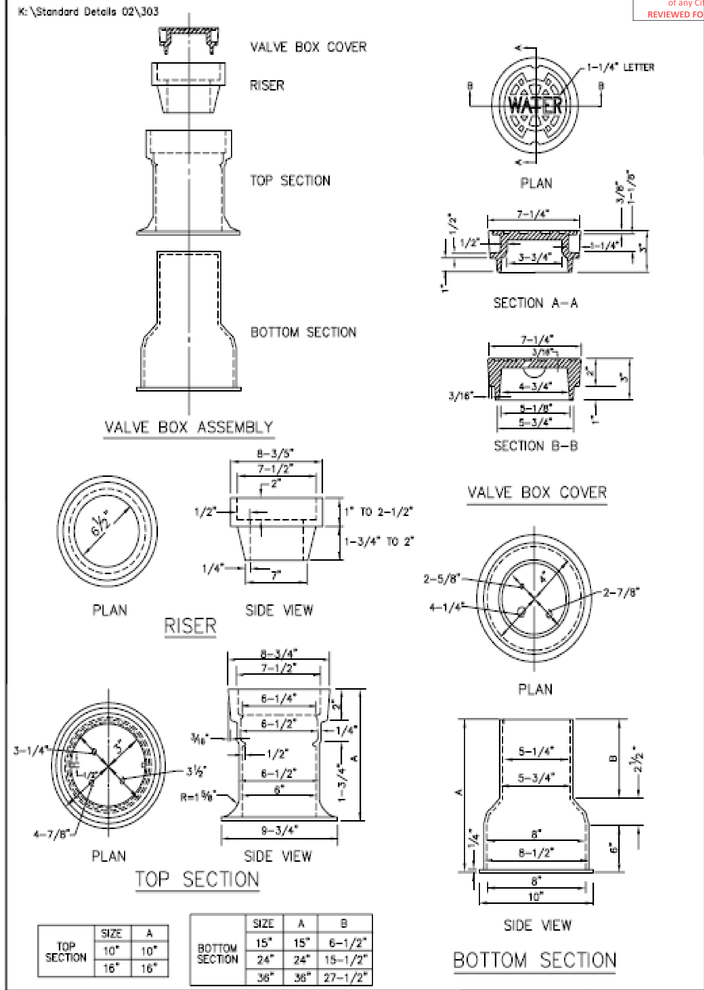
SECTION

NOTE: 1. If directed by the Engineer, concrete pads and concrete supports shall be furnished with valve assembly as specified in detail above.

2. Orient valve so operator is placed on the side of the pipe nearest the right-of-way line.

TAMPA WATER DEPARTMENT	APPROVED	REVISED	TYPICAL BUTTERFLY VALVE, VALVE BOX AND PAD INSTALLATION	3.02

K:\Standard Details 02\303



TOP SECTION	SIZE	A
	10"	10"
	16"	16"

BOTTOM SECTION	SIZE	A	B
	15"	15"	6-1/2"
	24"	24"	15-1/2"
	36"	36"	27-1/2"

TAMPA WATER DEPARTMENT	APPROVED	REVISED	VALVE BOX	3.03

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: *WATER DETAILS*

PETER C OKONKWO

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

THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNATURE AND SEAL OF PE 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
C10.1
12 OF 15

NORTH

9"
15"
RIVERWALL ROOF OUTLINE
PS
EXISTING VALVE
EXISTING NAIL AND DISK SET
RIVERWALL PUBLIC ART
EB
RIVERWALL FOOTER
HC - SIGN DETAIL 1
EXISTING ELECTRIC PULL BOX
11.04'
(DEMO VEHICLE)
CONCRETE CURB
SLOW DOWN PEDESTRIAN AHEAD SIGN
5.0' OF PAVING BEHIND WALL FOR MAINTENANCE
12.29'
TECO
EXISTING ELECTRIC MANHOLE (TECO)
7.48'
NEW CROSS WALK PER FDOT STANDARDS
FPKD
EXISTING SIGN AT COLUMN
SANITARY MANH
TOP ELE

RIVERWALK SIGN - VEHICLE 2 TURN
Scale: NTS

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

SPECTRA ENGINEERING & RESEARCH, INC.
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Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: *CITY OF TAMPA*

PROJECT: *TAMPA RIVERWALL PLAZA*

SHEET TITLE: *VEHICLE TURN ANALYSIS (INNER LANE)*

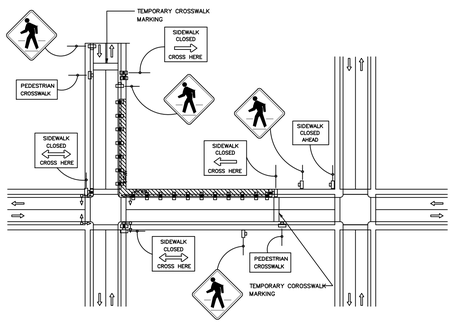
THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.

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

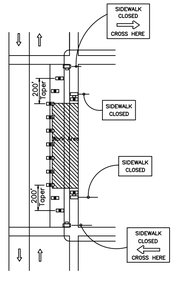
DRAWN BY:	FA
DATE:	10/10/2019
DWG. NO.:	19-016
APPVD. BY:	PCO
PROJ. NO.	19-016
DWG.	AUTOTURN
SCALE:	AS SHOWN

		REVISIONS	INITIAL

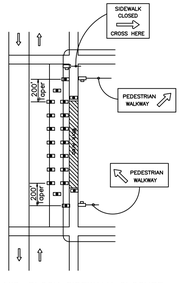
SHEET NO
C11.0
11 OF 15



CORNER SIDEWALK CLOSURE
WITH TEMPORARY CROSSWALKS



MID-BLOCK SIDEWALK
CLOSURE



MID-BLOCK SIDEWALK CLOSURE
WITH TEMPORARY WALKWAY

GENERAL NOTES

1. Arrows denote direction of traffic only and do not reflect pavement markings.
2. Only the signs controlling pedestrian flows are shown. Other work zone signs will be needed to control traffic on the streets.
3. For spacing of traffic control devices and general TCZ requirements refer to index no. 600. Maximum spacing between barricades, vertical panels, drums or tubular markers shall not be greater than 25 ft.
4. Street lighting should be considered.
5. For nighttime closures use type A flashing warning lights on barricades supporting signs and closing sidewalks. Use type C steady-burn lights on channelizing devices seperating the work area from vehicular traffic.
6. Pedestrian traffic signal display controlling closed crosswalks shall be covered or deactivated.
7. Temproary walkways shall be a minimum of 4 ft. wide and kept free of any obstructions and hazards such as holes, debris, mud, construction equipment, stored materials and etc.
8. Post Mounted Signs located near or adjacent to a sidewalk shall have a 7 ft. minimum clearance from the bottom of sign to the sidewalk.
9. When construction activities involve sidewalks on both sides of the street, efforts should be made to to stage the construction so that both sidewalks are not out of service at the same time.
10. In the event that sidewalks on both sides of the street are closed, then pedestrians shall be guided around the construction zone.

SYMBOLS

Work Area

Type ~ Or Type ~~ Barricade Or Vertical Panel Or Drum (With Steady Burning Light At Night Only), Tubular Markers May Be Used During Daylight Only.

Work Zone Sign

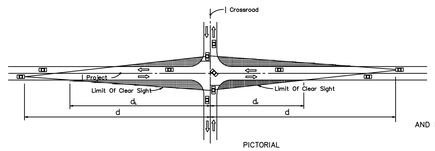
CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT WORKERS OR THEIR ACTIVITIES ENCROACH ON THE SIDEWALK FOR A PERIOD OF MORE THAN 60 MINUTES

TYPICAL APPLICATIONS

Sidewalk Repair
Pavement Widening
Utility Work

PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

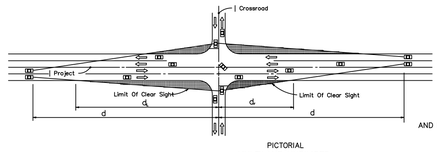


PICTORIAL
2 LANE UNDIVIDED

Design Speed (MPH)	d	q_1	q_2
30	380	290	200
35	435	335	235
40	580	450	310
45	710	550	380
50	840	650	450
55	990	760	520
60	1150	890	610
65	1350	1040	710

See General Note 2

SIGHT DISTANCE (d)
AND RELATED DISTANCES (q_1 q_2)
(FEET)

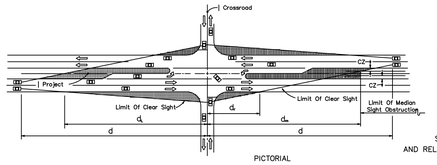


PICTORIAL
MULTILANE UNDIVIDED

Design Speed (MPH)	d	q_1	q_2
30	380	290	160
35	435	335	185
40	580	450	240
45	710	550	290
50	840	650	340
55	990	760	400
60	1150	890	460
65	1350	1040	540

See General Note 2

SIGHT DISTANCE (d)
AND RELATED DISTANCES (q_1 q_2)
(FEET)



PICTORIAL
MULTILANE DIVIDED

Design Speed (MPH)	d	q_1	q_2	q_m
30	380	290	120	300
35	435	335	150	370
40	580	450	180	460
45	710	550	220	560
50	840	650	260	670
55	990	760	300	780
60	1150	890	360	910
65	1350	1040	420	1070

See General Note 2

SIGHT DISTANCE (d)
AND RELATED DISTANCES (q_1 q_2 q_m)
(FEET)

LEGEND
Areas Free Of Sight Obstructions

NOTE: See Sheet 2 of 2 for intersecting roadway origin of clear sight and quadrant corner clips.

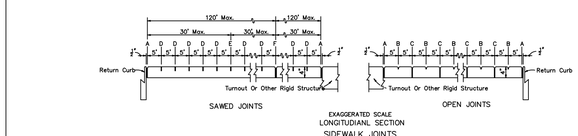
GENERAL NOTES

1. Details apply to both rural and urban intersections under stop sign control and flashing beacon control. For full signal controlled intersections see Design Note No. 3 below.
2. Sight distance (d) applies to normal and skewed intersections (intersecting angles between 60° and 120°), and where vertical and/or horizontal curves are present. Sight distance (d) is measured along the major roadway from the center of the intersecting roadway. Distances d_1 and d_2 are measured from the centerline of the intersecting roadway to a point on the edge of the outer traffic lane on the major roadway. Distance d_m is measured from the centerline of the intersecting roadway to a point on the median clear zone limit for the far side roadway of the major roadway.
3. a. The limits of clear sight define a corridor throughout which a clear sight window must be preserved. See WINDOW DETAIL, Sheet 2 of 2.
   b. Clear sight must be provided between vehicles at intersection stop locations, and vehicles on the major roadway within dimension "d".
   c. Clear sight is provided by a sight line originating 3.50' above the pavement at the drivers eye level and ending 4' above the pavement at the vehicle observed.
4. The corridor defined by the limits of clear sight is a restricted planting area. Drivers of vehicles on the intersecting roadway and vehicles on the major roadway must be able to see each other clearly throughout the limits of "d". Plants within the restricted areas are limited to selections as follows:
   Ground Covers– Plant selection of low growing vegetation which at maturity does not attain a height greater than 1' below the sight line datum.
   Trees, Palms Or Other Trunked Plants – Plant selection of a mature trunk diameter 4" or less measured at 6" above the ground. Canopy or high borne foliage shall never be lower than 3' (feet) above the sight line datum. These selections shall be spaced no closer than 20 feet.
5. If, in the Engineers judgement, landscaping interferes with the line of sight corridor prescribed by these standards the Engineer may rearrange, relocate or eliminate plantings.
6. Plants shall never obscure signs or signals.

DESIGN NOTES

1. The information shown on this index is intended solely for the purpose of clear sight development and maintenance of intersecting highways, roads and streets, and is not intended to be used to establish geometric design, speed control, signing, marking, lighting or signalization, or to establish roadway and roadside safety except as related to clear sight corridors. An analysis of sight distance shall be performed and documented for all intersections.
2. Details are based on the AASHTO "A Policy On Geometric Design Of Highways And Streets", Chapter ~◊, Cases ~~~ and ~C, and Departmental practices for channelized median openings (left turns from major roadways).
3. For SIGNALIZED INTERSECTIONS: Due to a variety of standard operational characteristics associated with signal controlled intersections, the sight distances based on Case ~~~ procedures should be available to the the driver. Unanticipated vehicle conflicts at signalized intersections, such as violation of the signal right turns on red, malfunction of the signal, or use of the flashing red/yellow mode further substantiate the need for incorporation of Case ~~~ sight distances. If the proper sight distances can not be attained, other design features such as "no right-on-red" may be necessary. These decisions shall be included in the analysis. The planting restrictions listed under General Notes above shall also apply to signalized intersections.

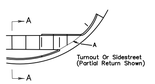
SIGHT DISTANCE
AT INTERSECTIONS



SAWED JOINTS

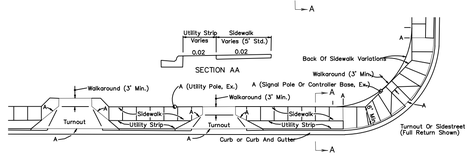
OPEN JOINTS

EXAGGERATED SCALE
LONGITUDIANL SECTION
SIDEWALK JOINTS



JOINT LEGEND

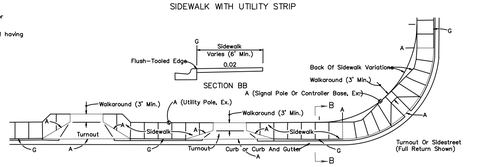
A– ½" Expansion Joints (Preformed Joint Filler)
B– ¼" Dummy Joints, Tooled
C– ¼" Formed Open Joints
D– ⅛ Saw Cut Joints, ¾" Deep (96 Hour) Max. 5' Centers
E– ⅛ Saw Cut Joints, ¾" Deep (12 Hour) Max. 30' Centers
F– ½" Expansion Joint When Run Of Sidewalk Exceeds 120'
G– Cold Joint With Bond Breaker, Tooled



SIDEWALK WITH UTILITY STRIP

GENERAL NOTES

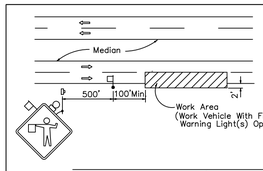
1. Sidewalks shall be constructed in accordance with FDOT Standard Specification No. 522 except for curb cut ramp runs which shall be finished in accordance with Index No. 304.
2. Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils nor more than .
3. For curb cut ramps see Index No. 304.
4. For turnouts see Index No. 515.
5. Sidewalk shall be paid for under the contract unit price for Sidewalk Concrete (4" Thick), S.Y.



SIDEWALK WITHOUT UTILITY STRIP

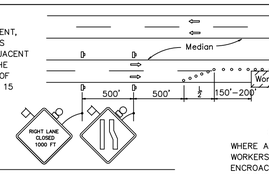
CONCRETE SIDEWALK

CONCRETE SIDEWALK FOR CURBED ROADWAYS



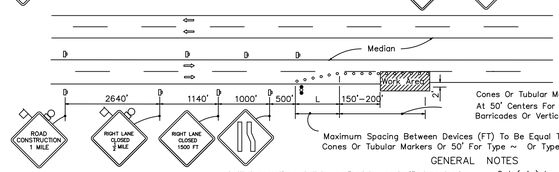
CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF PAVEMENT FOR A PERIOD OF 15 MINUTES OR LESS



CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF PAVEMENT FOR A PERIOD OF MORE THAN 15 MINUTES BUT LESS THAN 60 MINUTES



CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF PAVEMENT FOR A PERIOD OF 60 MINUTES OR GREATER

Maximum Spacing Between Devices (FT) To Be Equal To The Speed Limit (MPH) But Not Greater Than 25' For Cones Or Tubular Markers Or 50' For Type ~ Or Type ~~ Barricades Or Vertical Panels Or Drums.

Cones Or Tubular Markers At 25' Centers And Type ~ Or Type ~~ Barricades Or Vertical Panels Or Drums At 50' Centers For First 250', Thereafter Cones Or Tubular Markers At 50' Centers And Type ~ Or Type ~~ Barricades Or Vertical Panels Or Drums At 100' Centers.

SYMBOLS

Work Area

Sign With 18"x 18" (Min.) Orange Flag And Type B Light

Type ~ Or Type ~~ Barricade Or vertical Panel Or Cone Or Tubular Marker Or Drum

Work Zone Sign

Flagger

Advance Warning Arrow Panel

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
2. All vehicles, equipment, workers and their activities are restricted at all times to one side of the pavement.
3. The first two warning signs, each side, shall have an 18"x 18" (min.) orange flag and a Type B light attached and operating at all times.
4. Mesh signs may be used for (Daylight Only) operations Type B Lights and Orange Flags are not required.
5. On undivided highways the median signs as shown are to be omitted.
6. When work is performed in the median lane on divided highways the barricading plan is inverted and left lane closed and lane reduction signs substituted for the right lane closed and lane reduction signs.
   The same applies to undivided highways with the following exceptions: (a) Work shall be confined within one median lane. (b) Abaitional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.
   When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
7. The RIGHT (LEFT) LANE CLOSED signs are to be removed or fully covered when no work is being performed and the highway is open to traffic.
8. L (min.)=Length of taper in feet :
   =WS for speeds≤ 45 mph
   =WS² for speeds≥ 40 mph
   60
   Where:
   W=Width of lateral transition in feet
   S=Posted speed limit (MPH).
9. Arrows denote direction of traffic only and do not reflect pavement markings.
10. Longitudinal dimensions are to be adjusted to fit field conditions. See Index No. 600.
11. When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
12. This TCZ plan does not apply when work is being performed in the middle or inside lane(s) of a six or more lane highway. See Indexes Nos. 616 and 617.
13. When a side road intersects the highway on which work is being performed additional traffic control devices shall be erected in accordance with other applicable TCZ Indexes.
14. For general TCZ requirements and additional information, refer to Index No. 600.

TYPICAL APPLICATIONS

Pavement Resurfacing
Pavement Repair
Utility Work
Bridge Repair
Guardrail Work
Pavement Coring And Straight Edging

TRAFFIC CONTROL THROUGH WORK ZONES
MULTILANE, DIVIDED AND UNDIVIDED
RURAL● OPERATIONS ONE DAYLIGHT PERIOD OR LESS

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'

SPECTRA ENGINEERING & RESEARCH, INC.
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CLIENT: *CITY OF TAMPA*

PROJECT: *TAMPA RIVERWALL PLAZA*

SHEET TITLE: *MAINTENANCE OF TRAFFIC*

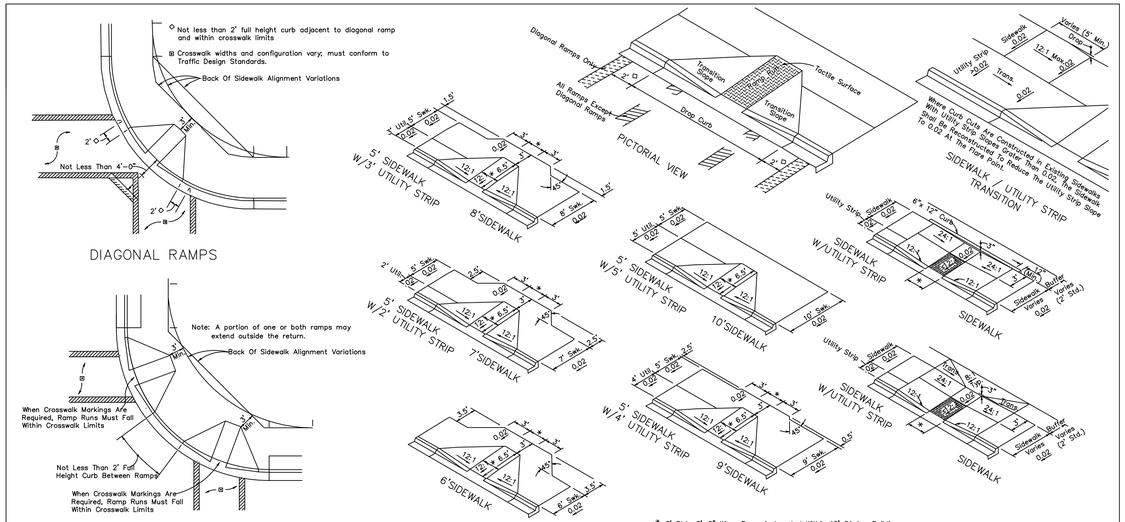
THIS PLAN IS NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.

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
C12.0
12 OF 15



CURB CUT RAMPS

GENERAL NOTES

1. Pedistrian pathways with running slopes steeper than 20:1 are considered ramps. Ramp running slopes shall not exceed 12:1. Ramp cross slopes shall not exceed 0.02.
2. Curbed facilities with sidewalks and those without sidewalks are to have curb cut ramps constructed at all street intersections and at turnouts that have curbed returns. Partial curb returns shall extend to the limit prescribed by index No. 515 to accommodate curb cut ramps. Ramps constructed at locations without sidewalks shall have a landing constructed at the top of each ramp, see Sheet 3 of 3.
3. The location and orientation of curb cut ramps shall be as shown in the plans.
4. If a curb cut ramp is located where pedestrians must walk across the ramp, then the walk shall have transition slopes to the ramp; the maximum slope of the transitions shall be 12:1. Curb cut ramps with returned curbs may be used where pedestrians would not normally walk across the ramp, see Sheet 2 of 3.

Ramps runs shall have a tactile surface. Ramp landings adjoining vehicular ways shall have a tactile surface 36" wide bordering the vehicular way. Tactile surfaces shall be constructed by texturing to a depth not exceeding by use of a tamp or roller fabricated with an imprinting surface of either 1" mesh 0.250 wire cloth (plain weave, conventional crimp), #6 expandeded metal (standard) or 3lb. expandeed metal grating. Transition slopes are not to have tactile surfaces.

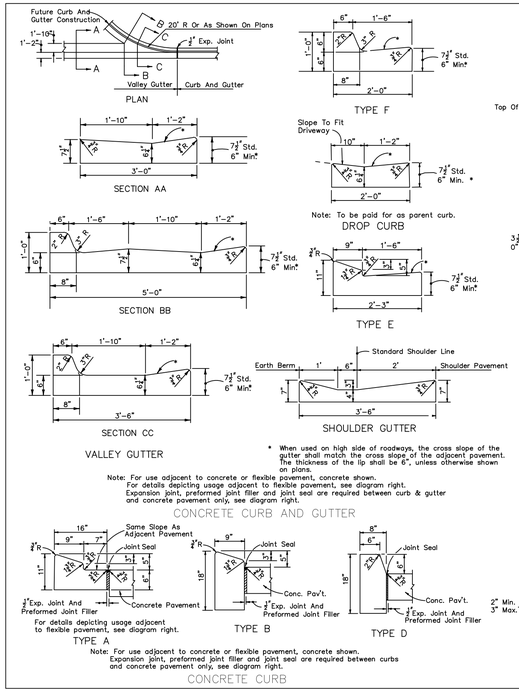
Where a curb cut ramp is constructed within existign curb, curb and gutter and/or sidewalk, the existing curb or curb and gutter shall be removed to the nearest joint beyond the drop curb or to the extent that no remaining section of curb or curb and gutter is less than 5' long. The existing sidewalk shall be removed to the nearest joint beyond the transition slope or walk around or the the extent that no remaining section of sidewalk is less than 5' long.

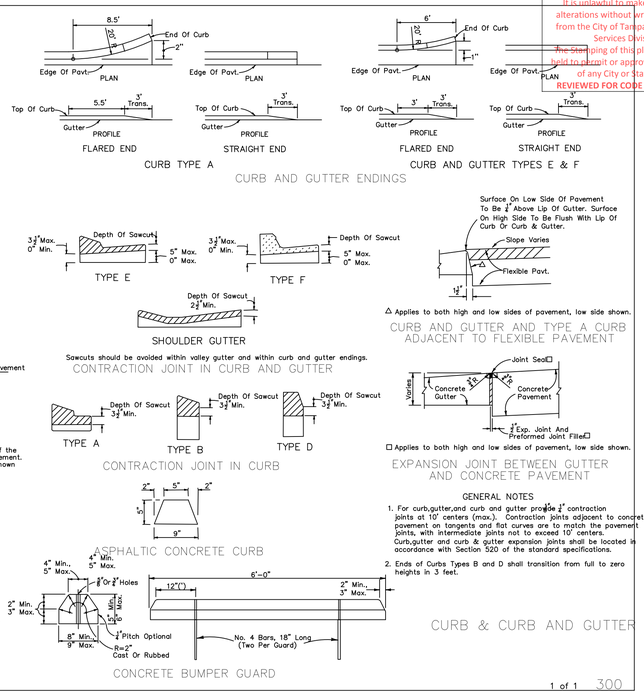
Ramps to be paid for as follows:

Ramps, reconstructed sidewalks, walk around sidewalks and landings are to be paid for under the contract unit price for Concrete Sidewalk (____). SY.

Drop curbs and reconstructed curbs are to be paid for under the contract unit price for the parent curb, i.e., Conc. Curb (Type____). LF. or Conc. Curb and Gutter (Type____). LF.

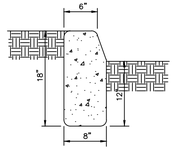
When a seperate pay item for the removal and disposal of existing curb, curb and gutter, and/or sidewalk is not provided in the plans, the cost of removal and disposal of these features shall be included in the contract unit price for new curb, curb and gutter and/or sidewalk respectively.



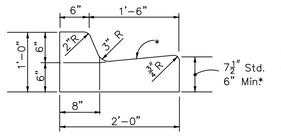


GENERAL NOTES

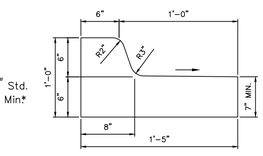
1. For curb,gutter,and curb and gutter provide ¼" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers. Curb,gutter and curb & gutter expansion joints shall be located in accordance with Section 520 of the standard specifications.
2. Ends of Curbs Types B and D shall transition from full to zero heights in 3 feet.



TYPICAL HEADER CURB
SCALE: NTS
FDOT INDEX 300

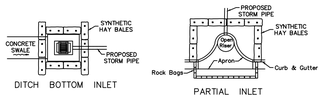


TYPE F



* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

MODIFIED TYPE 'F' CURB & GUTTER DETAIL
SCALE: NOT TO SCALE



PROTECTION AROUND INLETS
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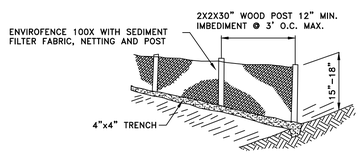
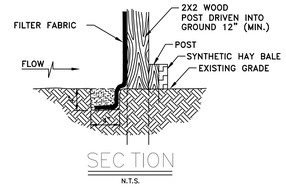
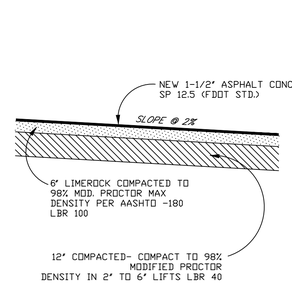
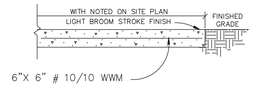
SEE ALSO FDOT INDEX 102, P. 2 OF 3, LATEST EDITION

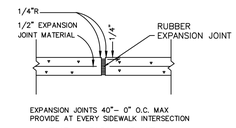


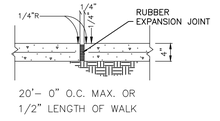


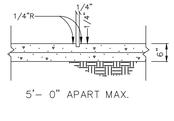


TYPICAL ASPHALT PAVEMENT SECTION
FOR PARKING
N.T.S.

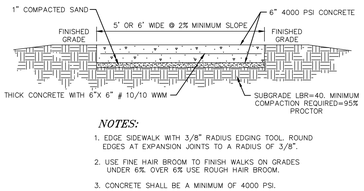








SIDEWALK DETAIL
CONSTRUCTION JOINTS TO BE 5' C/C
EXPANSION JOINTS TO BE 40' C/C



NOTES:
1. EDGE SIDEWALK WITH 3/8" RADIUS EDGING TOOL. ROUND EDGES AT EXPANSION JOINTS TO A RADIUS OF 3/8".
2. USE FINE HAIR BROOM TO FINISH WALKS ON GRADES UNDER 6% OVER 6% USE ROUGH HAIR BROOM.
3. CONCRETE SHALL BE A MINIMUM OF 4000 PSI.

TYPICAL CONCRETE SIDEWALK/DRIVEWAY DETAIL
N.T.S.

NOTE:
USE LANDSCAPE FORMS PLEXUS II BENCH WITH INTERMEDIATE ARM RESTS TO MATCH BENCHES RECENTLY INSTALLED IN ADJACENT PAR□. 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.
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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: *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

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 C13.0
13 OF 15

A. CONSTRUCTION NOTES

B.

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 AU 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 Will, IBIS 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 HILLSB OROUGH COUNTY, FLORIDA DEPT. OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCT ION 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 PROV1DE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE Will, ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS.. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROV1DING 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 WILL, 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 CONSTRUCT ION 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 DJV1CJS AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.

G. ALL TRAFFIC CONTROL MARKINGS AND DEV1CES SHALL CONFORM TO THE PRO VISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEV1CES 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 PROV1DEO 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 IBIS 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 DECREPANCIES 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 ORIGIN AL 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 REV1EW 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 LOCA L TREE ORDINANCES AND DETAILS CONTAINED IN TI-.[SE 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 WIL 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, PROV1DED 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 TI-.E OWNER, TI-.E 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 TI-,A T 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 PROV1DE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTI-,ER POURED CONCRETE, ETC.)

G. CONTRACTOR IS TO PROV1DE EROSION CONTROL AND SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATER WAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTI-,ER 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 Will-, THE EXCEPT ION 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 CONSTRUCT ION 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 CONSTRUCT ION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE DEVICES WILL RESULT IN ENFORCEMENT ACTION WITCH MAY INCLUDE CITATIONS, AS PROVIDED BY CHAPTERS 400 - 4 & 400-40 F.AC. 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 BY 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 Date: 2021.02.05 14:24:20 -05'00'

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Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: CITY OF TAMPA

PROJECT: TAMPA RIVERWALL PLAZA

SHEET TITLE: NOTES

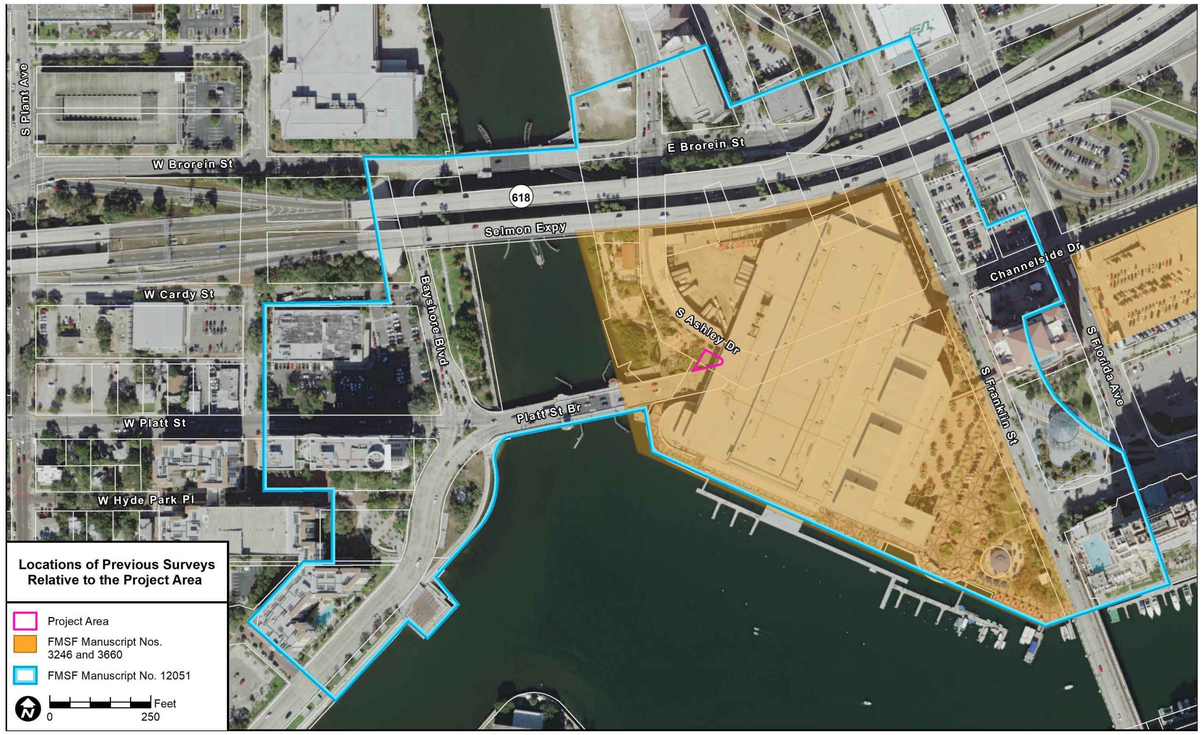
THIS SET IS INCOMPLETE WITHOUT CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.

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 C14.0



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

Both the *Platt Street Bridge* (8HI862) as well as the *Bayshore Boulevard Balustrade and Seawall* (8HI9700) were determined to be potentially individually eligible for NRHP listing. The remaining ~~six~~ seven resources (~~8HI1050~~, 8HI3055, 8HI9699, 8HI9702-9705) 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 Seawall* are potentially eligible for listing. Based on the information contained in the survey report, we also conclude that the *Jose Gasparilla* (8HI9705) is potentially individually eligible for listing due to its importance to the social history and recreation/entertainment of Tampa. The remaining *five* ~~six~~ resources (~~8HI1050~~, 8HI3055, 8HI9699, 8HI9702-9704) 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,

Barbara C. Mattick
Deputy SHPO for Survey & Registration

for Frederick P. Gaske, 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

JANUS RESEARCH
EST. 1979

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

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

Tampa Bay • Miami • Ft. Myers • Atlanta

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 hardscape (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/DRI, 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 archeological 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 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 (FDHR) 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

12051

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

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

July 5, 2005

RE: DHR Project File Number: 2005-4363
Received by DHR: April 29, 2005
Financial Management #: 415387-1
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 8HI1050 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 (8HI364, 8HI862, 8HI1050, 8HI3055, 8HI9699-9705, 8HI9727-8HI9729). A portion of the previously recorded *Hyde Park Historic District* (8HI1050), 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* (8HI9729), which includes six contributing resources (8HI364, 8HI862, 8HI9700, 8HI9701, 8HI9727, and 8HI9728).

500 S. Bronough Street • Tallahassee, FL 32399-0250 • http://www.flheritage.com

☐ Director's Office (850) 245-6300 • FAX: 245-6435
☐ Archaeological Research (850) 245-6444 • FAX: 245-6436
☒ Historic Preservation (850) 245-6333 • FAX: 245-6437
☐ Historical Museums (850) 245-6400 • FAX: 245-6433
☐ Palm Beach Regional Office (561) 279-1475 • FAX: 279-1476
☐ St. Augustine Regional Office (904) 825-5045 • FAX: 825-5044
☐ Tampa Regional Office (813) 272-3843 • FAX: 272-2340

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

October 11, 1993

Director's Office (904) 488-1480
Telecopier Number (FAX) (904) 488-3353

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,

for Laura A. Kammerer
George W. Percy, Director
Division of Historical Resources
and
State Historic Preservation Officer

GWP/Bdb
xc: Suzanne Cooper, TBRPC

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*

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

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

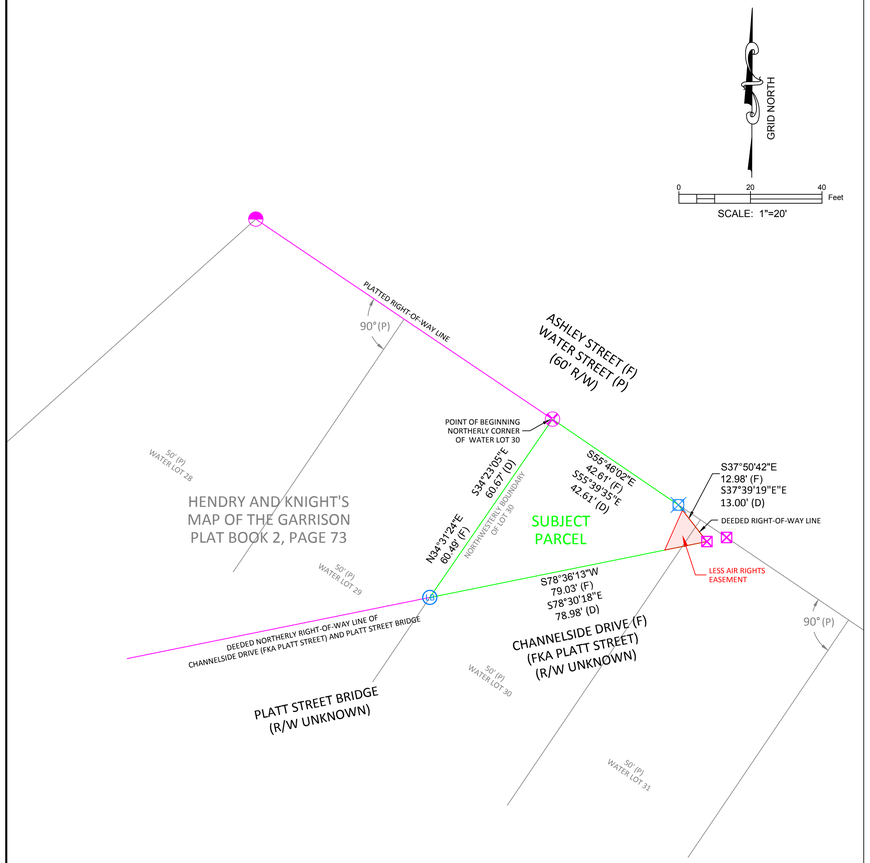
PETER C. OKONKWO, P.E.
REGISTRATION NO. 51459

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 C15.0

15 OF 15



BOUNDARY SURVEY
SCALE: 1"=20'

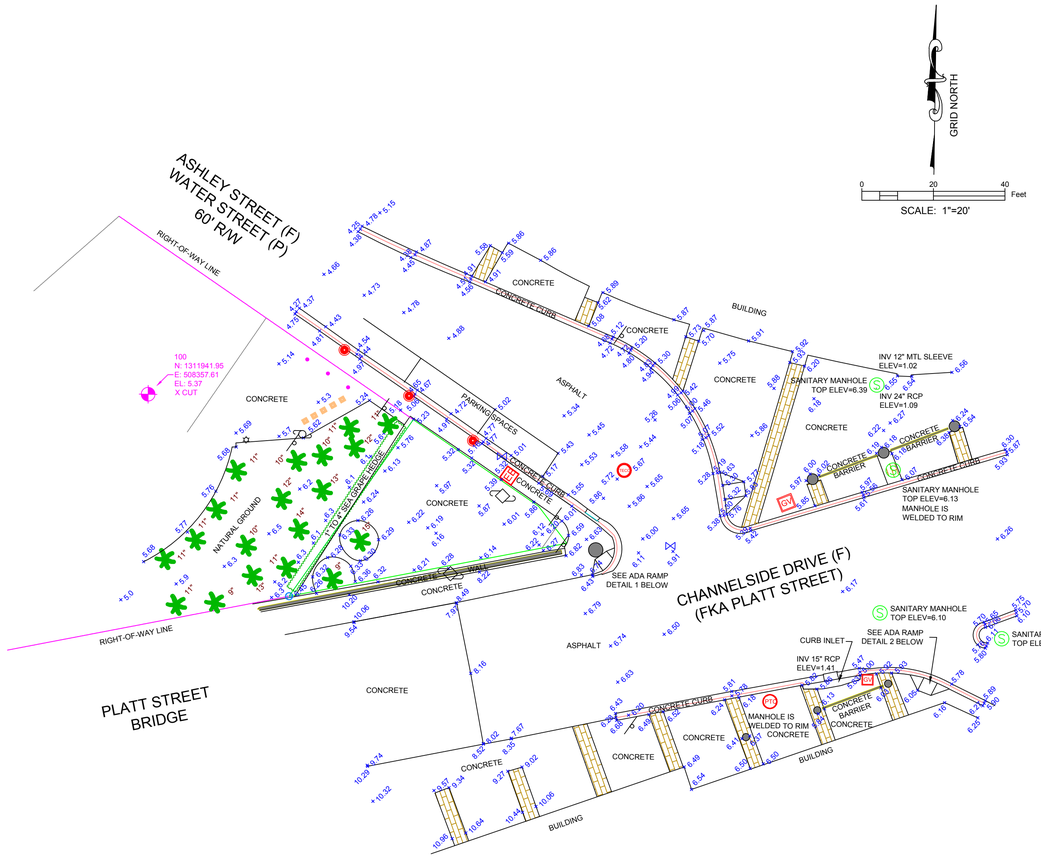
101
N: 1312037.79
E: 508239.83
EL: 4.58
X CUT

ABBREVIATIONS:

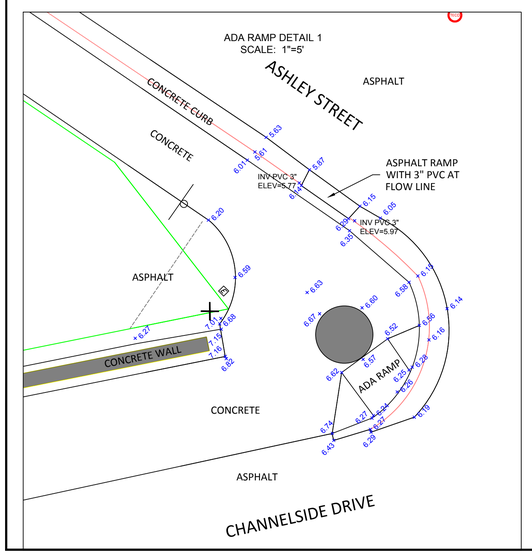
(D) = DEED
(F) = FIELD
FKA = FORMERLY KNOWN AS
INV = INVERT
(P) = PLAT
R/W = RIGHT-OF-WAY
RCP = REINFORCED CONCRETE PIPE

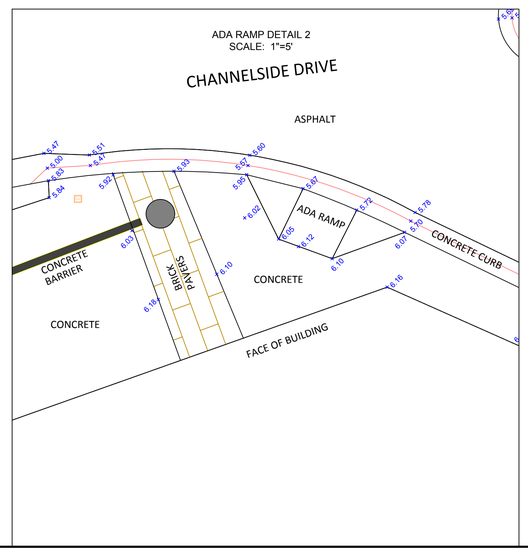
LEGEND:

- BENCHMARK/CONTROL POINT ("X" SCRIBED IN CONCRETE)
- BICYCLE RACK
- 12" DIAMETER CONCRETE BOLLARD
- 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 (5122)
- PTC (POSTAL TELEGRAPH CABLE) MANHOLE
- SANITARY SEWER MANHOLE
- SIGN (GENERIC)
- "X" FOUND IN CONCRETE



TOPOGRAPHIC SURVEY
SCALE: 1"=20'





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 23°59'19" EAST, A DISTANCE OF 12.29 FEET, TO THE POINT OF BEGINNING.

NOTES:

1. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED, EXCEPT AS NOTED.
2. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS OF WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR, EXCEPT AS SHOWN.
3. UNLESS OTHERWISE SHOWN HEREON, NO JURISDICTIONAL WETLAND AREAS OR OTHER TOPOGRAPHIC FEATURES HAVE BEEN LOCATED.
4. THIS OFFICE DID NOT PERFORM A TITLE SEARCH OF THE PUBLIC RECORDS TO VERIFY OR CONFIRM OWNERSHIP NOR WAS ONE PROVIDED BY THE CLIENT.
5. 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°56'03"E.
6. 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).
7. THIS IS A BOUNDARY AND TOPOGRAPHIC SURVEY OF AREAS REQUESTED BY THE CLIENT.
8. THE LAST DAY OF FIELD WORK WAS JULY 23, 2020.

DATE	REVISIONS	BY
09/30/19	ADDED ADDITIONAL TOPOGRAPHY	AUTH
09/30/19	REVISED MONUMENTATION LEGEND	GS
07/24/20	ADDED ADDITIONAL TOPOGRAPHY	GS

NSI Northwest Surveying Inc.
Certificate of Authorization Number LB0005122
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. 5218

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

SHEET
1 OF 1

ABBREVIATIONS

A/C	AIR CONDITIONER	HDR	HEADER
AB	ANCHOR BOLT	HORIZ	HORIZONTAL
ADJ	ADJACENT	HT	HEIGHT
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING , VENTILATION &
AGG	AGGREGATE	A/C	AIR CONDITIONING
ALT	ALTERNATE	IN	INCH
ALUM	ALUMINUM	INSUL	INSULATION
AO	ACCESS OPENING	INT	INTERIOR
APPROX	APPROXIMATE	JT	JOINT
ARCH	ARCHITECTURAL	K	KIPS
ASPH	ASPHALT	KSI	KIPS PER SQUARE INCH
B	BOTTOM	KSF	KIPS PER SQUARE FOOT
BLDG	BUILDING	L	ANGLE
BLKG	BLOCKING	LAM	LAMINATED
BM	BENCH MARK	LBS	POUNDS
BO	BOTTOM OF	LL	LIVE LOAD
BRG	BEARING	LLBB	LONG LEG BACK TO BACK
C	CHANNEL	LLH	LONG LEG HORIZONTAL
CANT	CANTILEVER	LLV	LONG LEG VERTICAL
CIP	CAST IN PLACE	LWC	LIGHT WEIGHT CONCRETE
CJ	CONSTRUCTION JOINT	MAX	MAXIMUM
CL, ℄	CENTER LINE	MBR	MEMBER
CMU	CONCRETE MASONRY	MECH	MECHANICAL
UNIT		MFGR	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONN	CONNECTION	ML	MATCH LINE
CONST	CONSTRUCTION	MO	MASONRY OPENING
CONT	CONTINUOUS	MTL	METAL
CR	COLD ROLLED	N/A	NOT APPLICABLE
CTR	CENTER	NIC	NOT IN CONTRACT
DBL	DOUBLE	NOM	NOMINAL
DEG, °	DEGREES	NS	NON SHRINK
DET	DETAIL	NTS	NOT TO SCALE
DIA,Ø	DIAMETER	OC	ON CENTER
DIM	DIMENSION	PCF	POUNDS PER CUBIC FOOT
DL	DEAD LOAD	PL, ℗	PLATE
DTL	DETAIL	PLF	POUNDS PER LINEAR FOOT
DWG	DRAWING	PREFAB	PREFABRICATED
DWL	DOWEL	PRELIM	PRELIMINARY
EA	EACH	PSF	POUNDS PER SQUARE
EJ	EXPANSION JOINT	FOOT	
ELEV	ELEVATION	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PT	PRESSURE TREATED
EMBED	EMBEDMENT	RAD	RADIUS
ENCL	ENCLOSED	REF	REFERENCE
ENGR	ENGINEER	REINF	REINFORCED
EQ	EQUAL	REQ	REQUIRED
EST	ESTIMATED	SCHED	SCHEDULE
EW	EACH WAY	SECT	SECTION
EXIST	EXISTING	SF	SQUARE FOOT
EXT	EXTERIOR	SIM	SIMILAR
FAB	FABRICATE	SJI	STEEL JOIST INSTITUTE
FBC	FLORIDA BUILDING CODE	SLBB	SHORT LEG BACK TO
FD	FLOOR DRAIN	BACK	
FDN	FOUNDATION	SPEC	SPECIFICATION
FF	FINISHED FLOOR	SQ	SQUARE
FFE	FINISHED FLOOR	STD	STANDARD
ELEVATION		STL	STEEL
FG	FINISHED GRADE	SYM	SYMMETRICAL
FIN	FINISH	T	TOP
FL	FLOOR	T&B	TOP & BOTTOM
FT	FEET	TEMP	TEMPERED
FTG	FOOTING	TOC	TOP OF CONCRETE
GA	GAUGE	TOM	TOP OF MASONRY
GALV	GALVANIZED	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	UNF	UNFINISHED
GEN	GENERAL	UON	UNLESS OTHERWISE NOTED
GND	GROUND	VERT	VERTICAL
GYP	GYPSUM	W/	WITH
HC	HOLLOW CORE	W/O	WITH OUT
		WWF	WELDED WIRE FABRIC

WIND LOAD DESIGN CRITERIA AND FLOOD ZONE INFORMATION

GOVERNING CODE	ASCE 7-16
BUILDING TYPE	PARTIALLY ENCLOSED
RISK CATEGORY	II
EXPOSURE CATEGORY	C
ULTIMATE WIND SPEED	V =150 MPH
NOMINAL WIND SPEED	V =116.2 MPH
MEAN ROOF HEIGHT	1'-3"
Kz / Kzt / Kd	0.85 / 1.00 / 0.85
VELOCITY PRESSURE AT 1'-3"	41.6 PSF

COMPONENT & CLADDING LOADS (ROOF)

INTERIOR ZONE (1)			
TRIB AREA	PRESSURE		OVERHANG PRESS
10 S.F.	52.0	-76.9	-74.8
20 S.F.	46.9	-76.3	-74.8
50 S.F.	35.3	-69.8	-83.1
100 S.F.	40.3	-64.4	-83.1
EDGE ZONE (2)			
TRIB AREA	PRESSURE		OVERHANG PRESS
10 S.F.	52.0	-97.7	-95.6
20 S.F.	46.9	-90.9	-93.7
50 S.F.	35.3	-82.0	-91.1
100 S.F.	40.3	-75.3	-89.2
CORNER ZONE (3)			
TRIB AREA	PRESSURE		OVERHANG PRESS
10 S.F.	52.0	-104.1	-126.9
20 S.F.	46.9	-96.4	-113.5
50 S.F.	35.3	-86.3	-98.7
100 S.F.	40.3	-78.6	-82.3

COMPONENT & CLADDING LOADS (WALLS)

INTERIOR ZONE (4)		
TRIB. AREA	WIND PRESSURES	
10 S.F.	64.4	-68.6
100 S.F.	57.1	-61.2
200 S.F.	54.9	-59.0
500 S.F.	52.0	-56.1
EDGE ZONE (5)		
10 S.F.	64.4	-81.0
100 S.F.	57.1	-66.4
200 S.F.	54.9	-61.9
500 S.F.	52.0	-56.1
EDGE ZONE (a) = 4'-4"		

MAIN WIND FORCE RESISTING STRUCTURES

NET DESIGN WALL PRESSURE	27.6
NET HORIZONTAL PRESSURE ON ROOF	19.08
NET UPLIFT PRESSURE ON ROOF	-32.82

WINDOW AND DOOR REQUIREMENTS - ASD

OPENING (SF)	WIND PRESSURES	
0-20	27.9	-36.8
20.01-30	26.3	-34.3
30.01-40	25.7	-33.2
40.01-50	25.2	-32.2

NOTE:
FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
ALL EXTERIOR WINDOWS SHALL BE IMPACT GLASS.

DESIGN LOADS

OCCUPANCY-	LIVE LOAD	DEAD LOAD
ROOF	20 PSF	10 PSF
EQUIPMENT PLATFORM	125 PSF	10 PSF
OFFICE	50 PSF	10 PSF
GUARDRAILS	200 LBS POINT OR 50 PLF	

LOADS LISTED ABOVE DO NOT INCLUDE MASONRY WALLS OR CONCRETE SLABS SELF WEIGHT.

GENERAL NOTES

1. THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, 7TH EDITION (2020). THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCE STANDARD APPLIES TO THIS PROJECT. ⚠1
2. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
3. CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
4. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
5. DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT.
6. OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE ONLY PICTORIAL. SEE THE ARCHITECTURAL AND M.E.P. DRAWINGS FOR THE SIZE AND LOCATION OF OPENINGS IN THE STRUCTURE.
7. CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING SHALL IMMEDIATELY NOTIFY THE ARCHITECT. THE ARCHITECT WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS, USE ONLY PRINTED DIMENSIONS. ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE. REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
9. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
10. THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING, INCLUDING, BUT NOT LIMITED TO, MASONRY WALLS. WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN A FLORIDA LICENSED ENGINEER TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STABILITY OF THE STRUCTURE.

EXCAVATION, BACKFILL AND DE-WATERING

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LOGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY STRUCTURES, STRESS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK.

REINFORCED CONCRETE

1. COMPLY WITH ACI 301 AND 318.
2. PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS OF:
   - A. SLAB ON GRADE — 3,000 PSI
   - B. FOUNDATION — 3,000 PSI
   - C. WALLS & SLABS — 5,000 PSI
3. USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS, U.O.N.
4. PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING 48 BAR Ø. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MID-SPAN, U.O.N. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS AND ALL BARS IN WALLS, U.O.N. ⚠1
5. PROVIDE COVER OVER REINFORCING AS FOLLOWS:
   - A. CAST AGAINST & EXPOSED TO EARTH/WEATHER — 3"
   - B. EXPOSED TO EARTH/WEATER
     - #6 THROUGH #18 REBAR — 2"
   - C. #5 REBAR, W31/D31 WIRE OR SMALLER — 1½"
   - D. NOT EXPOSED TO EARTH/WEATHER
     - a. SLABS, WALLS, JOISTS
       - #14 AND #18 REBAR — 1½"
       - #11 REBAR AND SMALLER — ¾"
     - b. BEAMS AND COLUMNS
       - REINF, TIES, STIRRUPS, SPIRALS — 1½"
6. WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFIRMING TO ASTM A-185. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICE ONE CROSS WIRE SPACING PLUS TWO INCHES.
7. UTILITIES SHALL NOT PENETRATE BEAMS OR COLUMNS BUT MAY PASS THROUGH SLABS AND WALLS INDIVIDUALLY, U.O.N., FOR OPENINGS 24" LONG OR LESS. CUT REINFORCING AND REPLACE A LONG SIDE OPENING WITH SPLICE BARS OF EQUIVALENT AREA WITH 48 BAR Ø LAP. PREPARE AND SUBMIT SHOP DRAWINGS FOR OPENINGS LONGER THAN 24". FOR RECTANGULAR OPENINGS 12" LONG OR LONGER, ADD (1) #5 X 6' MID DEPTH & DIAGONAL AT ALL 4 CORNERS.
8. WHERE REINFORCING STEEL CONGESTION PERMITS, CONDUIT AND PIPES UP TO 1"Ø MAY BE EMBEDDED IN CONCRETE PER ACI 318, SECTION 6.3. SPACE AT 3Ø O.C.PLACE BETWEEN OUTER LAYERS OF REINFORCING IF CONDUITS ARE SIGNIFICANTLY CONGESTED. ADDITIONAL REINFORCING PERPENDICULAR TO PIPING MAY BE REQUIRED. REQUESTS TO EMBED LARGER PIPES SHOULD BE ACCOMPANIED BY A DETAILED DESCRIPTION AND BE SUBMITTED TO THE ARCHITECT FOR EVALUATION.
9. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, SECTION 6.4. PROVIDE KEYWAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF FOUR FOR REVIEW.
10. PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.

SLAB ON GRADE

1. REFER TO GEO-TECHNICAL REPORT FOR SUB-GRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
2. ABOVE SUB-GRADE, USE FILL CONTAINING NOT MORE THAN 10% PASSING #200 SIEVE AND MAXIMUM 1"Ø, COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557.
3. FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY, TAKE A MINIMUM OF ONE FIELD DENSITY TEST (ASTN D-1556 OR D 2922) FOR EACH 2,500 SQUARE FEET OF EACH LAYER. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
4. FOR INTERIOR SLABS PLACE 6 MIL POLYETHYLENE SHEETING BETWEEN SOIL AND BOTTOM OF SLAB. DO NOT USE ANY SHEETING BELOW EXTERIOR CONCRETE SLABS.
5. USE 6" THICK SLABS ON GRADE REINFORCED WITH 6X6 - W1.4 X W1.4 WELDED WIRE REINFORCEMENT SUPPLIED IN FLAT SHEETS ONLY, U.O.N. USE CHAIRS TO SUPPORT WIRE FABRIC IN THE CENTER OF SLAB.
6. PROVIDE CRACK CONTROL JOINTS AT 15 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 225 SQ. FT. IN ALL FLOATING SLABS ON GRADE. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE. ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.
7. IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT, O.C. MAXIMUM SCORE AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS OF 5 FT. OR LESS.
8. SEE THE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE DEPRESSIONS AND OTHER REQUIREMENTS.

SHALLOW FOUNDATIONS

1. FOUNDATION DESIGN, SOIL PREPARATION AND COMPACTION ARE BASED ON GEO-TECHNICAL INVESTIGATION, DATA AND RECOMMENDATIONS IN FILE NO. 18-035 BY SOUTHER EARTH SCIENCES, INC. DATED FEBRUARY 16, 2018.
2. FOOTING SIZES AND REINFORCING ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEO-TECHNICAL REPORT.
3. SUB-GRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED BY A LICENSED SOILS ENGINEER IN ACCORDANCE WITH THE GEO-TECHNICAL REPORT. AT COMPLETION, THAT ENGINEER SHALL PREPARE AND SUBMIT TO THE OWNER, ARCHITECT, CONTRACTOR AND STRUCTURAL ENGINEER A SIGNED AND SEALED LETTER INDICATING THAT THE RECOMMENDATIONS OF THE GEO-TECHNICAL REPORT HAVE BEEN FOLLOWED.
4. CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, U.O.N.
5. TOP OF ALL FOOTINGS IS NOTED ON THE DRAWINGS.

CONCRETE MASONRY

1. CONSTRUCT MASONRY IN ACCORDANCE WITH ACI 530/ASCE 5, "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY" AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY".
2. USE 50% SOLID, NOMINAL 8X8X16, CONCRETE MASONRY UNITS CONFIRMING TO ASTM C90, LAY UP UNITS IN RUNNING BOND. SAW CUT UNITS WHICH ARE NOT IN MULTIPLES OF 8", UNITS SHALL BE AT LEAST 8" LONG. BAND CORNERS BY LAPPING ENDS 8" IN SUCCESSIVE VERTICAL COURSES. DESIGN OF WALLS IS BASED ON A F'M OF 1500 PSI.
3. USE TYPE S MORTAR IN ACCORDANCE WITH ASTM C270 EXCEPT USE TYPE M MORTAR BELOW GRADE. HEAD AND BED JOINTS SHALL BE ⅜" FOR THE THICKNESS OF THE FACE SHELL WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE AND WHERE AN ADJACENT CELL IS TO BE GROUTED, REMOVE MORTAR PROTRUSIONS EXTENDING ½" OR MORE INTO CELLS TO BE GROUTED.
4. USE STANDARD (9 GAGE) HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A-82 IN EVERY OTHER COURSE. OVERLAP DISCONTINUOUS ENDS 6". USE PREFABRICATED CORNERS AND TESTS. USE TRUSS TYPE, EXCEPT USE LADDER TYPE IN WALLS WITH VERTICAL REINFORCING. EXTEND JOINT REINFORCING A MINIMUM OF 4" INTO TIE COLUMNS.
5. USE FINE GROUT CONFORMING TO ASTM C-476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS. AGGREGATE TO CONFORM TO ASTM C404 FOR FINE GROUT, WITH SLUMP OF 8" TO 10". GROUT ALL MASONRY CONTAINING REINFORCING. ALL CELLS OF 4 HOUR RATED WALLS AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF CELLS CONTAINING REINFORCING STEEL TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-Ø" (MAXIMUM) LIFTS, WITH ½" HOUR TO 1 HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT.
6. USE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10'-0" O.C. WHERE GROUT POUR HEIGHT EXCEEDS 10'-0".
7. AT BOND/TIE BEAM CORNERS AND INTERSECTIONS, PLACE 1 #5 x 5'-0" T&B CORNER BAR, WITH 30" LEGS EACH WAY, AT THE EXTERIOR FACE.
8. BEAMS NOT SCHEDULED ARE MINIMUM 8" x 12" TIE BEAMS WITH (2) #5 BARS TOP AND BOTTOM AND #3 TIES SPACED AT 48" O.C. TYPICAL AND #4 TIES AT 12" O.C. AT ENDS AND INTERSECTIONS, U.O.N. COLUMNS NOT SCHEDULED ARE MINIMUM 8" X 12" TIE COLUMNS WITH (4) #5 VERTICAL BARS AND #2 TIES AT 12" O.C. USE 30" LAP SPLICES. HOOK ALL BARS AT DISCONTINUOUS ENDS.
9. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH ACI 530, 1/ASCE 6.
10. WHERE ANCHOR BOLTS, WEDGE ANCHORS OR ANCHORS SET IN EPOXY ARE SET IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
11. PROVIDE LINTELS OR HEADERS WITH MINIMUM 8" BEARING OVER ALL MASONRY OPENINGS.
12. USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
13. THE STRUCTURE IS SUPPORTED BY BEARING WALLS, U.O.N. ERECT MASONRY PRIOR TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OR CASTING BEAMS AND SLABS SUPPORTED BY BEARING WALLS.

LIGHT GAGE STEEL FRAMING

1. FABRICATE AND ERECT EXTERIOR STUD CONSTRUCTION IN ACCORDANCE WITH THE GENERAL NOTES AND SPECIFICATION SECTION 05400 "COLD-FORMED METAL FRAMING".
2. USE GALVANIZED STEEL "C" STUDS, TRACKS, ANGLES AND STRAPS AS SHOWN ON DRAWINGS. ALL TRACKS TO BE SAME GAGE AS STUDS WITH MINIMUM OF 1½" LEG.
3. MAXIMUM SPACING OF LATERAL BRIDGING FOR LTG FRM STUDS SHALL BE 5'-Ø" FOR SPANS GREATER THAN TEN (10) FEET AND MIDSPAN FOR SHORTER SPANS. LATERAL BRIDGING SHALL ALSO BE PROVIDED AT FREE ENDS OF CANTILEVERED PARAPETS AND NEAR THE SUPPORTS OF CONTINUOUS SPANS.
4. LTG FRM CONNECTIONS TO STRUCTURAL FRAMING SHALL BE CAPABLE OF WITH STANDING A MINIMUM 250 POUNDS FORCE IN ANY DIRECTION, BUT NOT LESS THAN THAT REQUIRED BY CALCULATIONS. CONNECT LTG FRM TO STRUCTURAL FRAME SO AS TO MINIMIZE INTRODUCTION OF FLEXURAL AND TORSIONAL FORCES IN STRUCTURAL MEMBERS. PROVIDE STRUTS, KNEE BRACING, ETC., TO STABILIZE LTG FRM FRAMING AS REQUIRED.
5. SCREWS, WHERE REQUIRED, SHALL MEET THE MINIMUM REQUIREMENTS OF SAE J-429 GRADE 5 AND IFI-105. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM B766.
6. THE FOLLOWING ARE MINIMUM FASTENER REQUIREMENTS:
   - A. LTG FRM TO LTG FRM:
     - USE SELF-TAPPING/DRILLING SCREWS, NO. 10-16 FOR 18 GA AND NO. 12-14 FOR 16 GA LTG FRM. TWO SCREWS PER CONNECTION. ONE SCREW EACH FLANGE FOR STUD TO TRACK CONNECTIONS.
   - B. LTG FRM TO CONCRETE AND STRUCTURAL STEEL:
     - 3⅝" TRACK - 1 PIN AT 24" O.C. STAGGERED
     - 6" TRACK - 2 PINS AT 24" O.C. AT STUDS
7. SCREWS, WHERE REQUIRED, SHALL MEET THE MINIMUM REQUIREMENTS OF SAE J-429 GRADE 5 AND IFI-1025. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM B766.
8. THE FIELD CUTTING OF LTG FRM FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. TORCH CUTTING IS NOT PERMITTED.
9. SPLICING OF FRAMING COMPONENTS, OTHER THAN THE CONTINUOUS TRACK AT THE TOP AND BOTTOM OF WALLS, IS NOT PERMITTED, U.O.N. SPLICING OF TRACK USED IN THE CONSTRUCTION OF THE JAMB, HEAD OR SILL ASSEMBLIES OF FRAMED WALL OPENINGS IS NOT PERMITTED. WHERE SPLICING OF TRACK IS NECESSARY BETWEEN STUD SPACING, A SECTION OF STUD SHALL BE PLACED IN THE ADJOINING TRACKS ACROSS THE JOINT AND FASTENED TO THE FLANGES AT BOTH SIDES OF THE WALL.

MEMBER DEPTH:
EXAMPLE:
(6" = 600 X 1/100 INCHES)
ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS, MEMBER DEPTH IS INSIDE TO INSIDE DIMENSION.

FLANGE WIDTH:
EXAMPLE:
(1⅝" = 1.625 = 162 X 1/100 INCHES)
ALL WIDTHS ARE TAKEN IN 1/100 INCHES.

600 S 162 54

STYLE:
EXAMPLE:
STUD OR JOIST SECTION = S
THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
S = STUD OR JOIST SECTIONS
T = TRACK SECTIONS
U = CHANNEL SECTIONS
F = FURRING CHANNEL SECTIONS

MATERIAL THICKNESS:
EXAMPLE:
(0.054 IN = 54 MILS, 1 MIL = 1/1000 IN)
MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

THICKNESS- STEEL COMPONENTS			
MINIMUM THICKNESS (MILS)	DESIGN THICKNESS (MILS)	INSIDE CORNER RADII (IN)	REFERENCE ONLY GAUGE NO.
18	0.0188	0.0843	25
27	0.0283	0.0796	22
30	0.0312	0.0781	20-DRYWALL
33	0.0345	0.0764	20-STRUCT.
43	0.0451	0.0712	18
54	0.0566	0.0849	16
68	0.0713	0.1068	14
97	0.1017	0.1525	12

DESIGN STIFFENING LIP LENGTH		
SECTION	FLANGE WIDTH (IN)	DESIGN STIFFENING LIP LENGTH (IN)
5125	1.5"	0.162
5137	1.375"	0.375
5162	1.625"	0.500
5200	2"	0.625
5250	2.5"	0.625

NOTE TO REVIEWER:

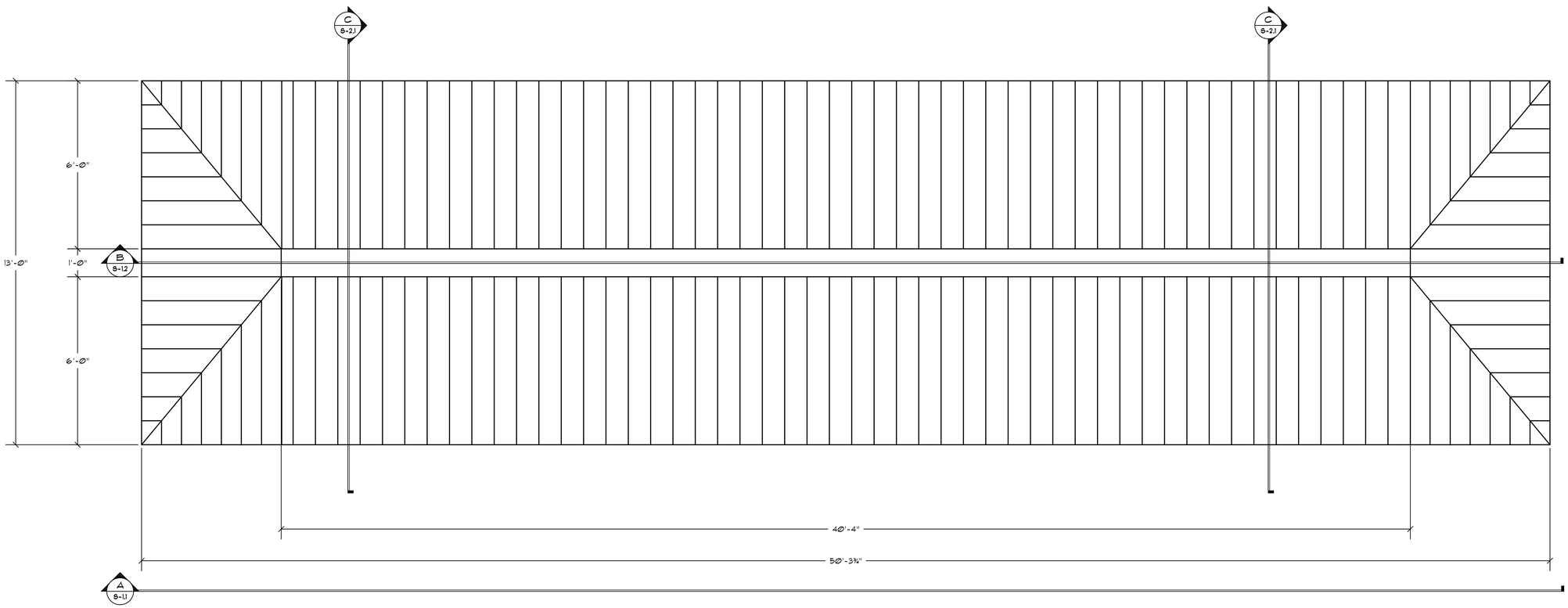
DESIGNER HAS CLASSIFIED THE STRUCTURE AS PARTIALLY ENCLOSED. ⚠1

100 % CONSTRUCTION DOCUMENTS

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL
BLD 21-0[illegible] 12/2021
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES.
It is unlawful to make changes or alterations on same without 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.
REQUIRED FOR CODE COMPLIANCE

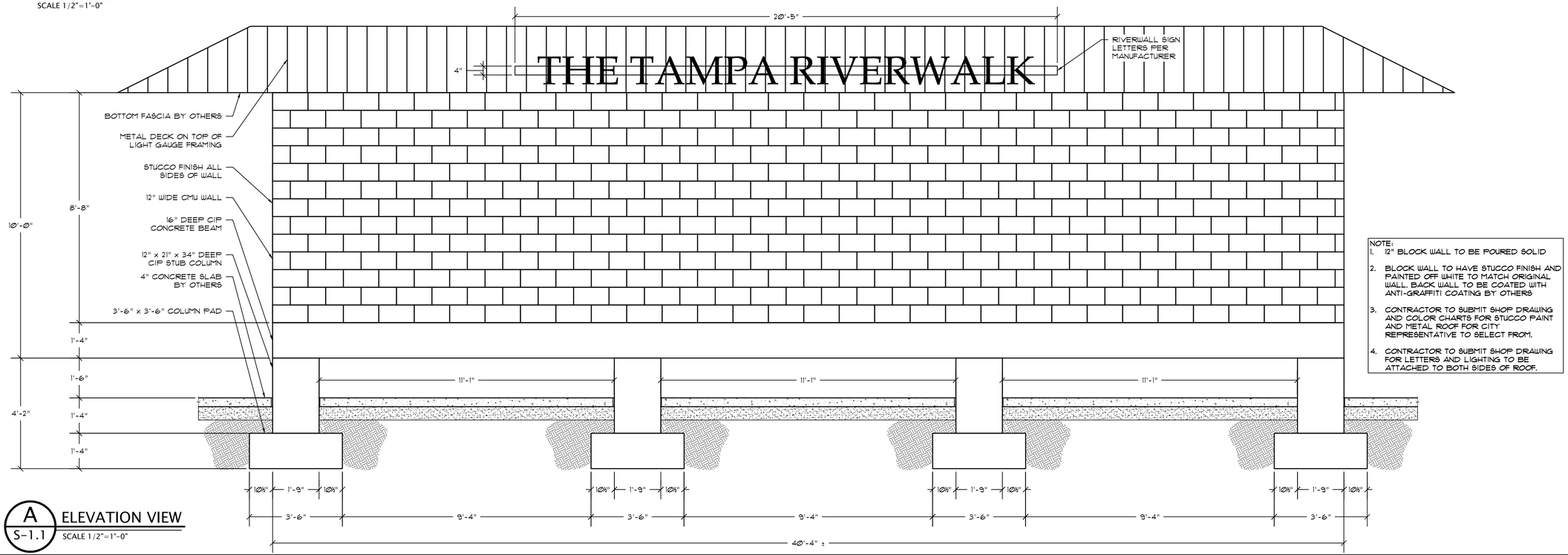
BARKLEY CONSULTING ENGINEERS, INC.
2840 REMINGTON GREEN CIR.
SUITE E
TALLAHASSEE, FLORIDA 32308
OFFICE 850.297.0440
CERTIFICATE OF AUTHORIZATION #8710

Digitally signed by Douglas R Barkley
DN: c=US, o=Barkley Consulting Engineers Inc, ou=A01410D0000017372E46927000055848, cn=Douglas R Barkley
Date: 2021.05.12 12:11:21 -04'00'



ROOF PLAN

SCALE 1/2"=1'-0"



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 S-1.1 ELEVATION VIEW

SCALE 1/2"=1'-0"

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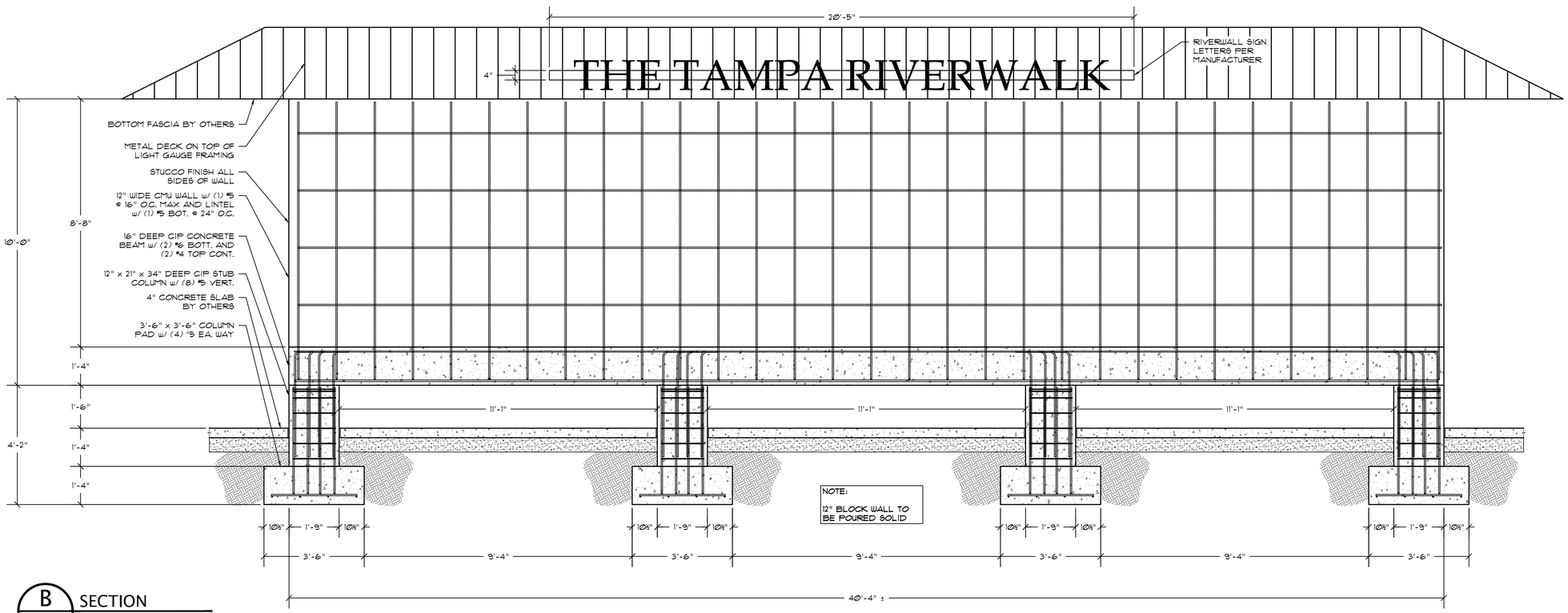

B
S-1.2
SECTION
SCALE 1/2"=1'-0"

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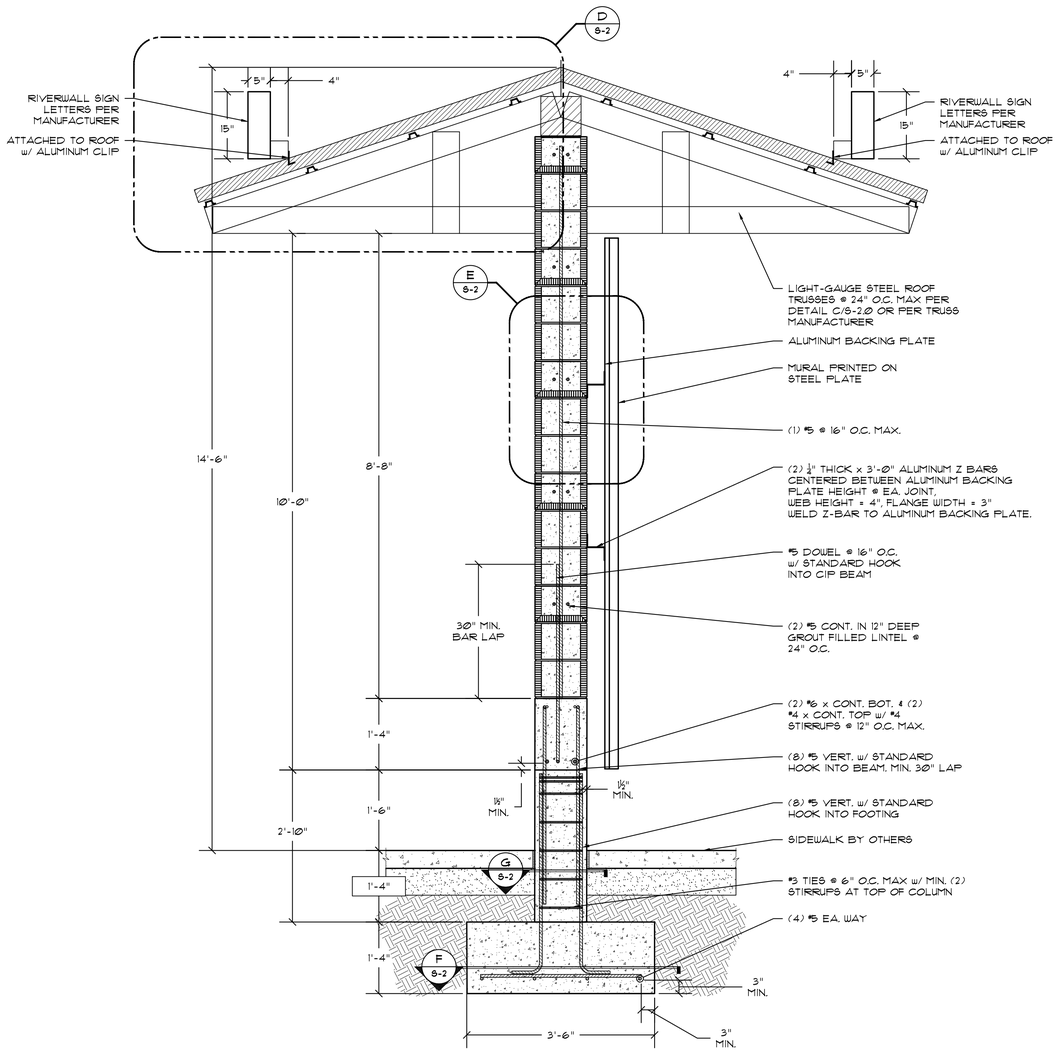
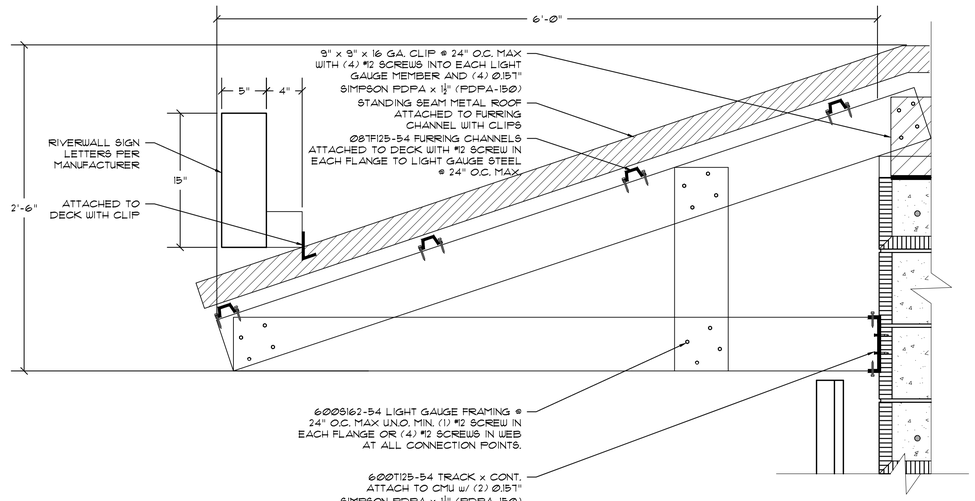


C S-2.1 WALL SECTION
SCALE 3/4"=1'-0"



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

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

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

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

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CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL
BLD 21-04[illegible]/2021
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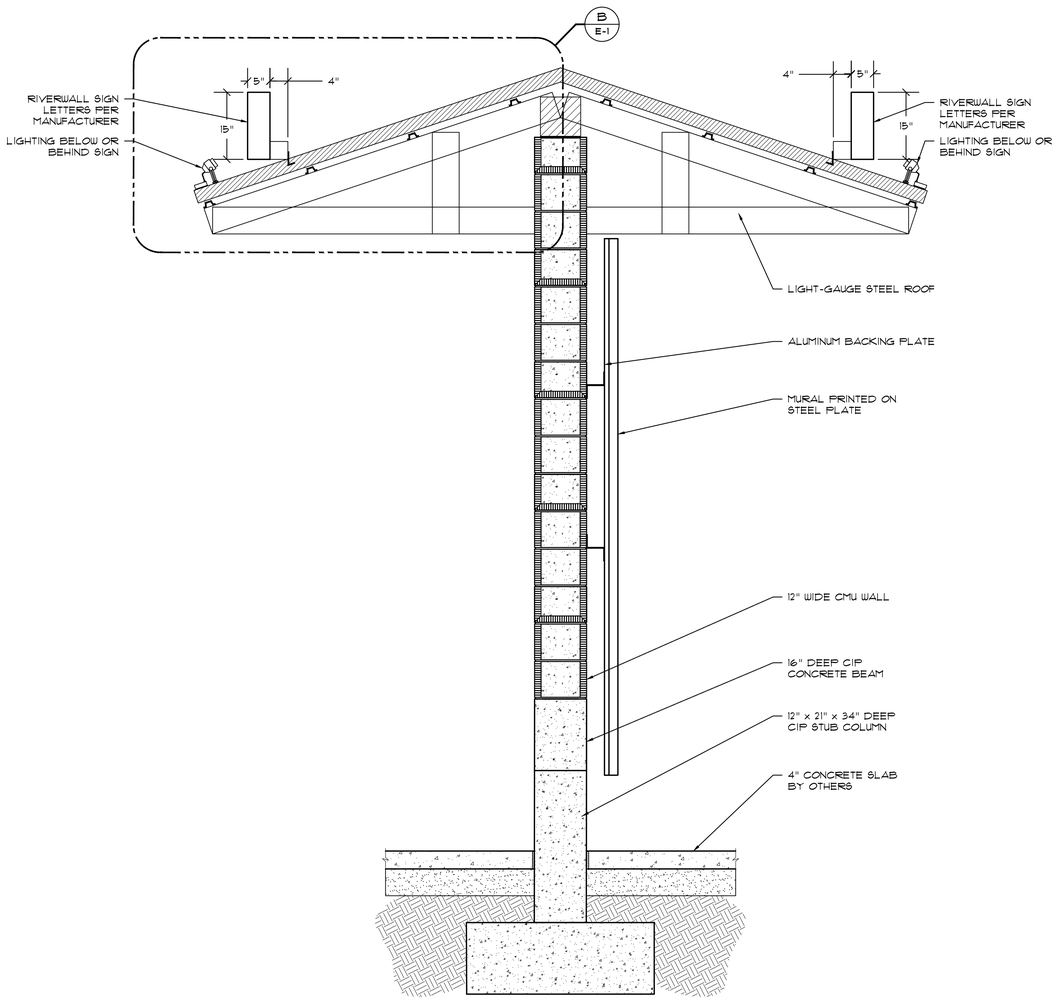

A E-1 WALL SECTION
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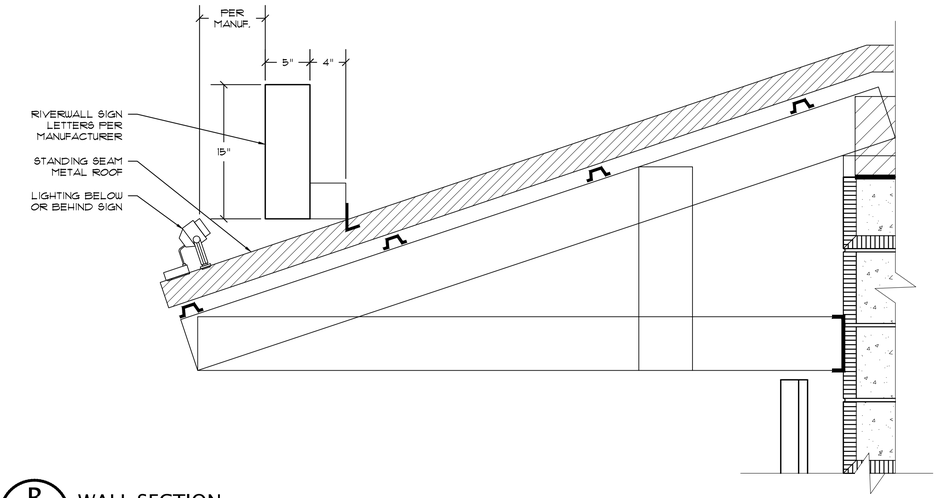


B E-1 WALL SECTION
SCALE 1-1/2"=1'-0"

LEGEND (APPLIES TO ALL SHEETS)

P- ##
BRANCH CIRCUIT CONDUIT & WIRING, NOTE: TICKMARKS INDICATE QUANTITY OF CONDUCTORS IN CONDUIT; "----------L----------" INDICATES FULL SIZE GROUND CONDUCTOR; ARROW INDICATES HOMERUN TO LOAD CENTER; "P-1" INDICATES PANELBOARD AND CIRCUIT NUMBER; WIRE SIZE #12 UNLESS OTHERWISE NOTED, SEE (BRANCH CIRCUIT WIRE SCHEDULE), CONDUIT IS ¾" & BREAKER IS 20A, 1-POLE UNLESS NOTED OTHERWISE. ALL WIRING SHALL BE THHN OR THWN TYPE.

CIRCUIT RUN IN OR BELOW SLAB OR UNDERGROUND

NEW PANELBOARD, NEMA-3R RATED, SEE PANELBOARD SCHEDULE

WP #
DUPLEX RECEPTACLE OUTLET BOX AN COVER PLATE- 20A, 125V, 2P,3W GROUND FAULT CIRCUIT INTERRUPTER TYPE WITH WEATHERPROOF "WITH IN USE LOCKABLE" TYPE COVER. UNLESS OTHER WISE NOTED.

LIGHT FIXTURE, SURFACE MOUNTED LINEAR (TYPE) NEMA-3R RATED – LED TYPE – LETTER DENOTES FIXTURE MARK (SEE LIGHT FIXTURE SCHEDULE)

LIGHT FIXTURE SURFACE MOUNTED LINEAR – LED TYPE – LETTER DENOTES FIXTURE MARK (SEE LIGHT FIXTURE SCHEDULE)

LIGHT FIXTURE BOLLARD – LED TYPE – LETTER DENOTES FIXTURE MARK (SEE LIGHT FIXTURE SCHEDULE)

J
JUNCTION BOX SIZE AS REQUIRED NEMA-3R RATED WHERE APPLICABLE RATED TO BE INSTALLED BELOW OR FLUSH WITH GRADE.

FIXTURES "GW & "LFOP" MOUNTING ALTERNATIVES

ALTERNATIVE #1:

1. IF RECOMMENDED BY THE LIGHT FIXTURE MANUFACTURE LIGHT FIXTURES SHALL BE ATTACH TO WALL USING "VIA" A CANTILEVER ARM TYPE METHOD PER LIGHTING MANUFACTURE RECOMMENDATIONS, FIXTURES ARE TO ATTACH TO THE END OF CANTILEVER ARM. CONFIRM WITH MANUFACTURE PRIOR TO SUBMITTING A BID OR ORDERING ANY MATERIALS.
2. CANTILEVER ARM SHALL COMPLY WITH ALL WINDING LOADING RECRUITMENTS PER PROJECT STRUCTURE ENGINEER.

ALTERNATIVE #2:

1. IF RECOMMENDED BY THE LIGHT FIXTURE MANUFACTURE LIGHT FIXTURES SHALL BE INSTALL TO THE ROOF SOFFIT OR STRUCTURE MEMBERS (IF ROOF IS OPEN OPEN) PER LIGHTING MANUFACTURE RECOMMENDATIONS. CONFIRM WITH MANUFACTURE PRIOR TO SUBMITTING A BID OR ORDERING ANY MATERIALS.

GENERAL LIGHTING NOTES (APPLIES TO ALL SHEETS)

1. THE CONTRACTOR SHALL INSTALL LIGHT FIXTURES PER MANUFACTURE RECOMMENDATIONS AND INDUSTRY BEST PRACTICES AND STANDARDS.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE AIMING OF LIGHTS BASED UPON SIZE AND ORIENTATION OF WALL AIMING SHALL BE DONE PER "IES" ILLUMINATING ENGINEERING SOCIETY HANDBOOK, MANUFACTURE AND INDUSTRY BEST PRACTICES AND STANDARDS. THE LIGHTING MANUFACTURE SHALL PROVIDE A FOOTCANDLE LAYOUT DRAWING OF THE LIGHTING PHOTOMETRIC DATA FOR THE WALL, SIGN ON ROOF, AND SITE. THE CONTRACTOR SHALL COORDINATE WITH OWNER THE SPECIFY TYPE OF ART BEING MOUNTED ON WALL AND PROVIDE THIS INFORMATION TO LIGHTING MANUFACTURE.
3. ALL LIGHT FIXTURES SHALL BE CONNECTED ELECTRICALLY PER MANUFACTURE RECOMMENDATIONS.
4. LIGHT FIXTURES SHOWN ON THESE DRAWINGS ARE DIAGRAMMATICALLY SHOWN, THE CONTRACTOR SHALL INSTALL LIGHTING PER MANUFACTURE RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE WITH A LIGHTING MANUFACTURE REPRESENTATIVE ALL LIGHTING INSTALLATION REQUIREMENTS PRIOR TO SUBMITTING A BID.
5. JUNCTION BOXES OR DIAGRAMMATICALLY SHOWN PROVIDE AND INSTALL PER LIGHTING MANUFACTURE RECOMMENDATIONS.
6. ALL FIXTURES SHALL BE ATTACH TO THE ROOF PER ROOF MANUFACTURE RECOMMENDATIONS AND INDUSTRY BEST PRACTICES AND STANDARDS SUCH THAT ROOF INTEGRITY IS NOT COMPROMISED. CONTRACTOR SHALL PROVIDE A SEALING WATER-TYPE COMPOUND TO PREVENT AND FUTURE ROOF LEAKING.
7. ALL EQUIPMENT AND HARDWARE SHALL BE INSTALL SUCH THAT IT IS FUNCTIONAL, OPERATIONAL, AND MAINTAINABLE PER LOCAL AND NATIONAL CODES, MANUFACTURE RECOMMENDATIONS, AND INDUSTRY BEST PRACTICES AND STANDARDS.
8. CONTRACTOR SHALL THOROUGHLY EXAMINE THE DRAWINGS FOR ANY AMBITIOUSLY LANGUAGE, WHERE AMBITIOUSLY LANGUAGE IS ENCOUNTERED THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID THE MOST EXPENSIVE MATERIALS AND HARDWARE AND WORK EFFORT TO ACCOMPLISH THE TASK PER INDUSTRY BEST PRACTICES AND PROCEDURES.
9. AT TIME OF DESIGN TYPE OF SPECIFIC ART WORK TO BE PLACE ON WALL WAS NOT KNOWN, PRIOR TO SUBMITTING A BID OR ORDERING HARDWARE AND/OR EQUIPMENT, AND LIGHT FIXTURES THE CONTRACTOR SHALL CONFIRM ALL PHOTOMETRIC DATA WITH LIGHT FIXTURE MANUFACTURE THAT IT COMPLIES WITH INDUSTRY BEST PRACTI

GENERAL LIGHTING LAYOUT NOTES (APPLIES TO ALL SHEETS)

1. THIS LIGHTING PHOTOMETRIC'S DESIGN AND LAYOUT WAS BASE ON INFORMATION PROVIDE BY A LIGHTING MANUFACTURE REPRESENTATIVE, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE CONTRACTOR'S LIGHTING DESIGNER SHALL DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.
2. THE LIGHTING PATTERN AND ILLUMINATION LEVELS PRODUCE BY THE LAYOUT OF THESE LUMINAIRES REPRESENTS ILLUMINATION LEVEL CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURE'S LUMINARIE MAY VARY DUE TO VARIATIONS IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.

20A, 120V BRANCH CIRCUIT HOMERUN CONDUCTOR SIZE UON		
CONDUCTOR LENGTH (FT)	CONDUCTOR SIZE	GROUND SIZE
<55	12	12
56 TO 95	10	10
96 TO 146	8	10
147 TO 230	6	8

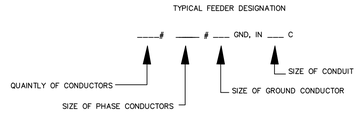
THE QUANTITIES IN THE ABOVE TABLE IS BASE ON ASSUMING THE POWER FACTOR OF 0.95% OR LESS AT (WORST CASE) 16 AMPERES CONTINUOUSLY, VOLTAGE DROP LESS THAN OR EQUAL TO 3.0% PROVIDE CONDUCTOR SIZES INDICATED ON ABOVE SCHEDULE UNLESS OTHERWISE NOTED INDICATED ON LIGHTING POWER AND SYSTEMS DRAWINGS HOMERUN JUNCTION BOX TO BE WITHIN 10 FEET OF LAST DEVICE CONNECTED TO CIRCUIT. HOMERUN LENGTH TO INCLUDE BOTH HORIZONTAL AND VERTICAL ROUTING DISTANCES. INCREASE CONDUIT SIZE TO MEET THE NEC FOR INCREASE CONDUCTOR SIZES.

ALL CONDUCTORS LENGTHS PROVIDED IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE DOCUMENTS. THEY SHALL NOT BE USED BY CONTRACTORS IN BIDDING OR CONSTRUCTING THE PROJECT. THE CONTRACTORS IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.

COORDINATE ROUTING OF CONDUIT AND INSTALLATION OF WIRING DEVICES, EQUIPMENT AND HARDWARE WITH OTHER TRADES PRIOR TO ROUGH-IN.

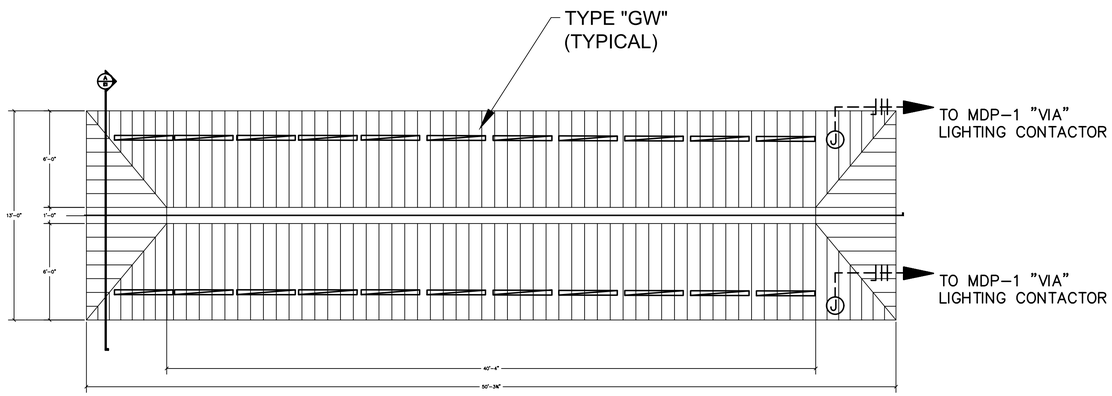
PROVIDE AND INSTALL AN EQUIPMENT GRUONDING CONDUCTOR WITH GREEN INSULATION IN ALL CONDUITS THAT CONTAIN PHASE CONDUCTORS. ALL EQUIPMENT DEVICECS AND FIXTURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIRMENTS.

TYPICAL FEEDER DESIGNATION

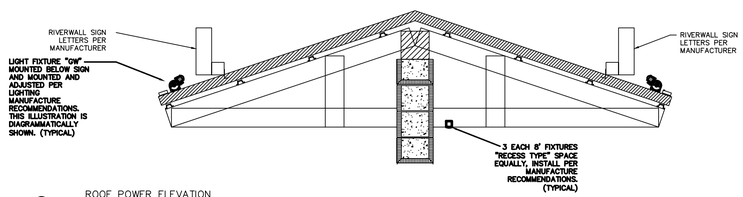


ABBREVIATIONS (APPLY TO ALL SHEETS)

A	AMPRE
A.F.F	ABOVE FINISH FLOOR
A.F.G	ABOVE FINISH GRADE
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AIC	AMPERES INTERRUPTING CURRENT
AMPS	AMPRES
ATC	ASTRONOMICAL TIME CLOCK
ATS	AUTOMATIC TRANSFER SWITCH
AUTH	AUTHORIZATION
BRN	BROWN
C	CONDUIT
CT	CURRENT TRANSFORMER
EA	EACH
ELECT	ELECTRICAL
FLA	FULL LOAD CURRENT
FLUOR	FLUORESCENT
G	GROUND
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERUPTER
H	HOT CONDUCTOR OR PHASE CONDUCTOR
HVAC	HEATING VENTILATION AIR CONDITIONING
KAIC	THOUSAND AMPRE INTERRUPTING CURRENT
LED	LIGHT EMITTING DIODE
LT	LIGHTING
MECH	MECHANICAL
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NEUTRAL
N/A	NOT APPLICABLE
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION AGENCY
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTION DEVICE
PS	PULL CORD
QTY	QUANTITY
SPD	SURGE PROTECTION DEVICE
T	THOUSAND
TOT	TOTAL
TV	TELEVISION
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE
VA	VOLT AMPRE
W	WATT
WP	WEATHERPROOF
Z	IMPEDANCE



ROOF PLAN PLAN
NOT TO SCALE



ROOF POWER ELEVATION
NOT TO SCALE

GENERAL NOTES (APPLIES TO ALL SHEETS)

1. THE CONDUIT SYSTEMS UTILIZED SHALL BE AS FOLLOWS: "PVC" (SCHEDULE-40) BELOW GRADE. ALL BUILDING INTERIOR CONDUITS LESS THAN 2" IN DIAMETER (ID) SHALL BE EMT (UON), METAL CLAD "MC" CABLE IS ALLOWED IF APPROVED BY THE AUTHORITY HAVING JURISDICTION AND ALLOWED BY APPLICABLE NATIONAL AND LOCAL CODES. ALL CONDUITS ON EXTERIOR (A.F.G) AND/OR ELSEWHERE OUTSIDE THE BUILDING AND A.F.G SHALL BE RSC (UON), PAINT CONDUIT TO MATCH EXISTING SURFACE FINAL. ALL CONDUIT CONNECTED TO MOTORS, WATER HEATER, OR HVAC EQUIPMENT SHALL BE LTFMC.
2. ALL CONDUCTORS SHALL BE RUIN IN CONDUIT, AND ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED ON THE DRAWINGS. MC CABLE SHALL BE USED ONLY IF ALLOWED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
3. ALL GROUNDING SHALL COMPLY WITH NFPA 70 2017 EDITION OR THE EDITION ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
4. PROVIDE A GREEN CONTINUOUS INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH ALL CIRCUITS.
5. NOTIFY THE ELECTRICAL ENGINEER OF RECORD OF ANY CHANGES IN EQUIPMENTS SIZES IF DIFFERENT FROM WHAT SHOWN ON THESE DRAWINGS.
6. THE ELECTRICAL CONTRACTOR SHALL VERIFY AND CONFIRM TYPE OF LIGHTING HARDWARE AND EQUIPMENT SELECTED AND ITS ELECTRICAL REQUIREMENTS WITH LIGHTING MANUFACTURE PRIOR TO PURCHASING ANY ELECTRICAL HARDWARE AND MATERIALS.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO CIVIL AND STRUCTURE DRAWINGS FOR EXACT SIZE AND LOCATION OF SITE AND SIGN.
8. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BEGINNING WORK ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ELECTRICAL ENGINEER OF RECORD ANY DISCREPANCIES.
9. CONTRACTOR SHALL IDENTIFY IN FIELD ALL EXISTING SITE CIVIL, MECHANICAL, AND STRUCTURAL SYSTEMS THAT MAY AFFECT THE ROUTING AND INSTALLATION OF NEW CONDUIT AND/OR WIRING, HARDWARE AND EQUIPMENT.
10. WHERE NEW AND/OR EXISTING SITE MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS AFFECT ROUTING AND INSTALLATION OF NEW CONDUIT AND OR WIRING OR HARDWARE AND/OR EQUIPMENT, CONTRACTOR SHALL FIELD ROUTE TO AVOID OBSTRUCTIONS. THE ELECTRICIAN SHALL COMPENSATE FOR VOLTAGE DROP PER 2017 NATIONAL ELECTRICAL CODE.
11. PROTECT EXISTING SITE CONDITIONS WHERE APPLICABLE AND FIXED EQUIPMENT TO REMAIN FROM DAMAGE.
12. WHERE EXISTING MATERIALS/FINISHES ARE DISTURBED BY ELECTRICAL WORK OF THIS PROJECT, CUT, PATCH AND REPAIR THOSE AREAS AS REQUIRED TO MATCH THE ADJACENT EXISTING MATERIALS/FINISHES IN CONFIGURATION, TEXTURE, COLOR, ETC, WITH SMOOTH AND LEVEL TRANSITION UNLESS OTHERWISE NOTED.
13. DO NOT SCALE ANY DRAWINGS TO DETERMINE DIMENSIONS, RELY ONLY ON FIELD CONDITIONS AND/OR ARCHITECT DRAWINGS FOR MEASUREMENTS DIMENSIONS.
14. NO ENERGIZED UNCONNECTED WIRES OR UNUSED DEVICES SHALL BE LEFT IN PLACE WETHER THEY ARE PROPERLY SECURED OR NOT.
15. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE.
16. ELECTRICAL CONTRACTOR SHALL NOT SCALE WORK FROM ELECTRICAL DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS OTHERWISE NOTED.
17. ALL PANEL DIRECTORIES SHALL BE TYPE WRITTEN, HAND WRITTEN WILL NOT BE EXCEPTED.
18. PROVIDE AND INSTALL ALL LIGHTING FIXTURES, VERIFY LIGHT FIXTURE TYPES AND QUANTITY WITH MANUFACTURE PRIOR TO PLACING A BID OR ORDER.
19. EVERY BRANCH CIRCUIT SHALL INCLUDE GROUND CONDUCTOR IN ADDITION TO THE REQUIRED NEUTRAL AND PHASE CONDUCTORS.
20. REFER TO CIVIL DRAWINGS FOR WALL LOCATION AND ORIENTATION AND PROVIDE ELECTRICAL REQUIREMENTS ACCORDINGLY.
21. ALL DISCONNECT SWITCHES SHALL BE SIZED PER 2017 NATIONAL ELECTRICAL CODE TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING FUSES IF REQUIRED, UNLESS OTHERWISE NOTED.
22. FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT AND WIRING FOR AIR CONDITIONING SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS. CONTROLS SHALL BE SUPPLIED BY AIR CONDITIONING CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR.
23. PROVIDE FIRE RETARDANT UL APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE REASONABILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS.
24. THE INSTALLATION SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE.
25. THE INSTALLATION SHALL COMPLY WITH THE EDITION OF THE FLORIDA BUILDING CODE THAT IS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
26. THIS PROJECT IS THE CONSTRUCTION OF AN NEW WALL AND ADDING SITE LIGHTING AND LIGHTING OF THE WALL. PREVIOUS RECORD DRAWINGS, AND ARCHITECT DRAWINGS AND SITE CONDITIONS FORM THE BASICS FOR MANY OF THESE DRAWINGS . IT IS THEREFORE IMPORTANT THAT ALL DIMENSIONS SHALL BE FIELD VERIFIED BEFORE FABRICATION OR PURCHASE OF ALL EQUIPMENT, MATERIALS AND ASSEMBLIES. THERE MAY BE EXISTING FIELD CONDITIONS NOT ACCESSIBLE OR PRESENT DURING DESIGN WHICH MAY DIFFER FROM THOSE SHOWN ON THE DRAWINGS. ANY SUCH DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER OF RECORD FOR RESOLUTION BEFORE PROCEEDING WITH THE CONSTRUCTION, FABRICATION OR MATERIAL/EQUIPMENT PURCHASES WHICH WOULD BE UNUSABLE UNDER THOSE CIRCUMSTANCES.
27. JAMES & MOORE AND ASSOCIATES, LLC & ENGINEER OF RECORD GRANTS CLIENT, ARCHITECT, CIVIL ENGINEER AND/OR CONTRACTOR A LIMITED LICENSE TO USE THESE DOCUMENTS ON THE PROJECT, EXTENSIONS OF THE PROJECT, AND FOR RELATED USES OF THE CLIENT, SUBJECT TO RECEIPT BY ENGINEER OF FULL PAYMENT DUE AND OWING FOR ALL SERVICES RELATING TO PREPARATION OF THE DOCUMENTS. FAILURE BY THE CLIENT TO MAKE FULL PAYMENT DUE AND OWING TO THE ENGINEER OR JAMES & MOORE AND ASSOCIATES, LLC FOR ALL SERVICES RELATING TO THE PREPARATION OF THE DOCUMENTS SHALL VOID THE LIMITED LICENSE."
28. PRIOR TO ROUGH-IN FOR ALL FOR ALL LIGHTING SWITCHES, ELECTRICAL HARDWARE AND EQUIPMENT VERIFY WITH CIVIL AND STRUCTURAL PLANS.
29. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL ELEVATION PLANS TO AVOID CONFLICTS WITH CASEWORK, COUNTERTOPS, DOOR SWINGS, ETC WHERE CONFLICT OCCURS, CONTRACTOR SHALL CONTACT THE ARCHITECT IN WRITING FOR RESOLUTION.
30. FOR EXACT LOCATION OF EQUIPMENT MOUNTED IN SUSPENDED CEILINGS AND CEILINGS. SUCH AS LIGHTING, SEE ARCHITECTURAL REFLECTED CEILING PLANS. ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN FINAL LOCATION.
31. CONTRACTOR SHALL IDENTIFY IN THE FIELD ALL EXISTING UNDERGROUND AND OVERHEAD UTILITY SYSTEMS THAT MAY AFFECT THE ROUTING AND INSTALLATION OF NEW CONDUIT AND CIRCUITRY, HARDWARE AND EQUIPMENT. WHERE EXISTING BUILDING MECHANICAL AND/OR STRUCTURAL SYSTEMS AFFECT ROUTING AND INSTALLATION OF NEW CONDUIT, HARDWARE AND EQUIPMENT, CONTRACTOR SHALL FIELD ROUTE TO AVOID EXISTING OBSTRUCTIONS.
32. ALL PANELBOARDS SHALL BE THE LOCKABLE TYPE AND NEMA-3R RATED.
33. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONSTRUCTION DOCUMENTS TO BECOME FAMILIAR WITH THESE DOCUMENTS AND NOTIFY THE FEDERAL, STATE, COUNTY, OR CITY AGENCY, ARCHITECT, OR ENGINEER OF RECORD OF ANY AMBIGUOUS LANGUAGE OR ILLUSTRATION, SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, MATERIALS, OR AND/OR EQUIPMENT REQUIRED FOR DIFFICULTIES ENCOUNTERED WILL BE NOT BE ACCEPTED.
34. THERE MAY BE EXISTING BURIED UTILITIES IN THE AREA WHERE TRENCHING AND DIGGING IS TO BE DONE, IT SHALL BE THE RESPONSIBLY OF THE CONTRACTOR TO LOCATE AND AVOID CONSTRUCTION CONFLICTS WITH EXISTING UTILITIES AT NOT ADDITIONAL COST TO THE COUNTY OR CITY GOVERNMENT.
35. THE CONTRACTOR SHALL SUBMIT A BID AND/OR PROPOSAL THAT WILL PROVIDE A FULLY FUNCTIONAL, OPERATIONAL, MAINTAINABLE AND CONSTRUABLE ELECTRICAL/LIGHTING SYSTEM TO LIGHT THE WALL AND SITE THAT COMPILES WITH THE CONTRACT DOCUMENTS, AND ALL NATIONAL, STATE, AND LOCAL CODES AND ORDNANCES. SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT THE BID CONTAINS EQUIPMENT AND HARDWARE THAT COMPLIES WITH THE DRAWINGS AND ALL CODES AND ORDNANCES PREVIOUS DESCRIBED IN THIS PARAGRAPH AND LATER CLAIMS FOR LABOR, MATERIALS, OR AND/OR EQUIPMENT REQUIRED FOR DIFFICULTIES ENCOUNTERED WILL BE NOT BE ACCEPTED.
36. ALL CONDUCTORS SHALL BE COPPER.
37. WHERE THERE'S CONFLICTS AND/OR AMBIGUOUS LANGUAGE SHOWN ON/OR DESCRIBED ON DRAWINGS AND IN SPECIFICATIONS THE MOST STRINGENT AND EXPENSIVE WORK EFFORT AND EQUIPMENT AND HARDWARE COST TAKES PRECEDENT.
38. THE BASIS OF LIGHTING DESIGN WAS BASE ON INFORMATION FROM ENVISION LIGHTING SYSTEMS PHONE 941-243-0608.
39. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES IN THIS AREA PRIOR TO DIGGING AND/OR BORING. IT IS STRONGLY RECOMMEND THAT THE CONTRACTOR HAND-DIG IN THE AREA WHERE WORK IS TO BE PERFORMED.

FOR CONSTRUCTION

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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.

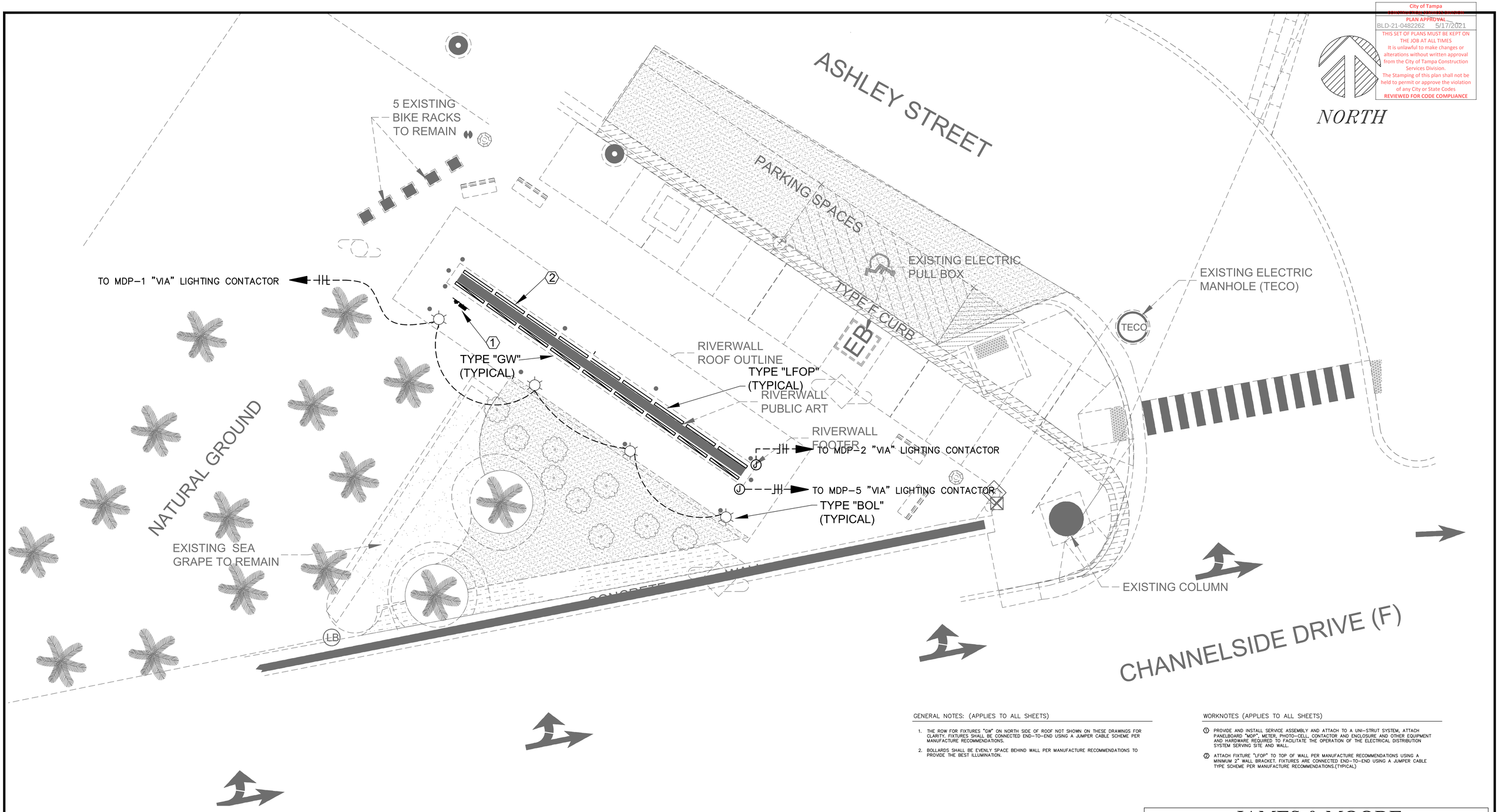
Job J Gammons
Digitally signed by Job J Gammons
Date: 2021.05.11 13:51:52 -05'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JOB J. GAMMONS ON DATE USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DRAWN BY:	J.GAMMONS
DATE:	02/01/2021
DWG. NO.:	DRAWING_NO
APPVD. BY:	J.GAMMONS
PROJ. NO.	PROJECT_NO
DWG.	DRAWING_NAME
SCALE:	NONE

NO	DATE	REVISIONS	INITIAL
1	5/11/2021	CHANGE TO NEC 2017 EDITION	J.G

SHEET NO E1.0



GENERAL NOTES: (APPLIES TO ALL SHEETS)

1. THE ROW FOR FIXTURES "GW" 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

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CLIENT: *CITY OF TAMPA*

PROJECT: *TAMPA RIVER WALL PLAZA*

SHEET TITLE: *GENERAL NOTES LEGEND*

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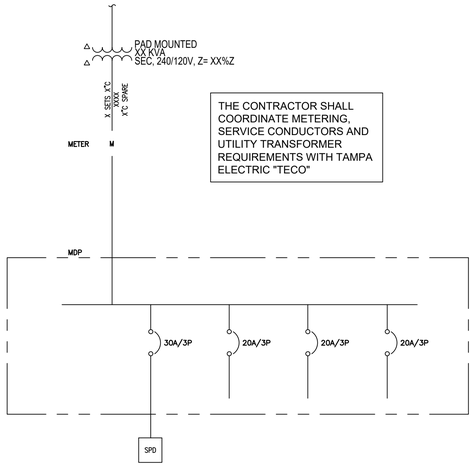
DATE:	02/04/2021
DWG. NO.:	DRAWING_NO
APPVD. BY:	J.GAMMONS
PROJ. NO.	PROJECT_NO
DWG.	DRAWING_NAME
SCALE:	1"=5'

		REVISIONS	INITIAL

SHEET NO
E2.0
2 OF 5



RISER DIAGRAM

NOT TO SCALE

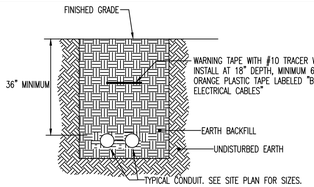
THE CONTRACTOR SHALL COORDINATE METERING, SERVICE CONDUCTORS AND UTILITY TRANSFORMER REQUIREMENTS WITH TAMPA ELECTRIC "TECO"

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 WASN'T 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. ⚠1

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.



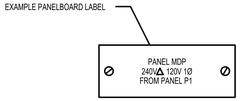
TRENCHING & BACKFILL DETAIL

NOT TO SCALE

ATTACH WEATHER RATED PLACKARD TO ALL PANEL BOARD DOORS

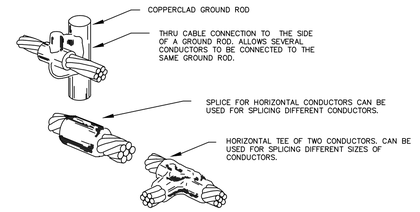
SIGNAGE

NOT TO SCALE



TYPICAL PANELBOARD LABELING DETAIL

NOT TO SCALE



EXOTHERMIC WELD DETAILS

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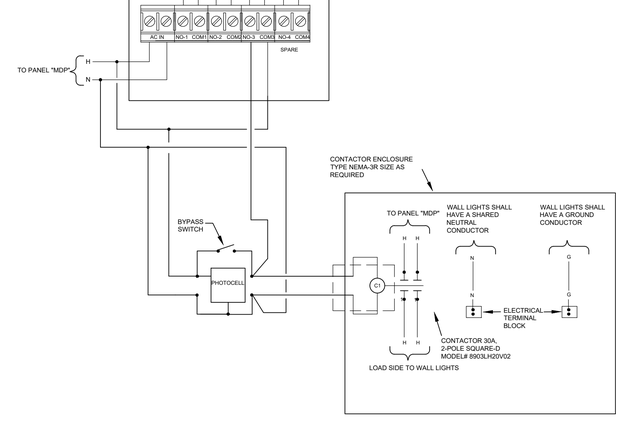


PHOTOCELL AND TIME CLOCK DETAIL

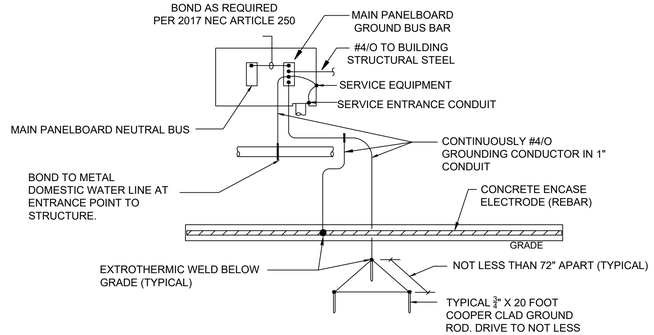
NOT TO SCALE

EQUIPMENT FEEDER AND BRANCH CIRCUIT SCHEDULE UON							
OVERCURRENT PROTECTION DEVICE	NUMBER OF SETS	PHASE CONDUCTORS 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/O	#6	2"	2"	1-1/2"	N/A
125	1	1/O	#6	2"	2"	1-1/2"	N/A
150	1	1/O	#6	2"	2"	1-1/2"	N/A
175	1	2/O	#6	2"	2"	2"	N/A
200	1	#3/O	#6	2.5"	2.5"	2"	N/A
225	1	#4/O	#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 MAUNFACTURE RECOMMEND DIFFEERNT OVERCURRENT PROTECTION AND/OR WIRER SIZES OTHER THAN WHATS SHOWN IN THIS TABLE THEN COMPLY WITH MANUFACTURE INSTRUCTIONS.							

FOR CONSTRUCTION

120 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP DISTANCES (FEET) UON					
AMPS 30AMP CIRCUIT:	#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 LENGTH 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 ⚠1



GROUNDING DETAIL

NOT TO SCALE

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CLIENT: *CITY OF TAMPA*

PROJECT: *TAMPA RIVER WALL PLAZA*

SHEET TITLE: *RISER DIAGRAM AND DETAILS*

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Job J Gammons — Digitally signed by Job J Gammons Date: 2021.05.11 13:52:39 -05'00'

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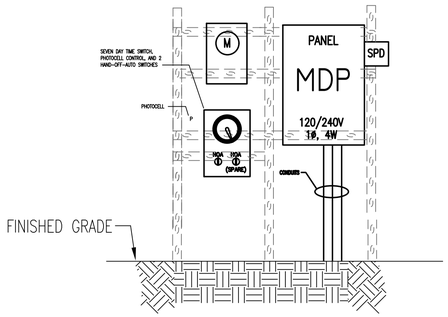
APPVD. BY:	J.GAMMONS
PROJ. NO.	PROJECT_NO
DWG.	DRAWING_NAME
SCALE:	SCALE

NO	DATE	REVISIONS	INITIAL
⚠1	5/11/2021	CHANGE TO NEC 2017 EDITION	J.G

SHEET NO E3.0

3 OF 5

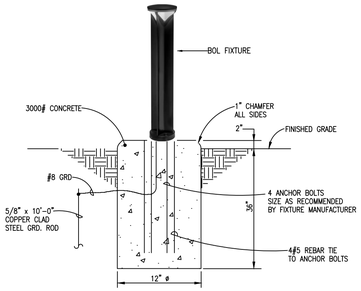


SERVICE ASSEMBLY DETAIL:

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-STRUT TYPE SYSTEM FOLLOWING INDUSTRY BEST PRACTICES AND STANDARDS. UNI-STRUT 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.

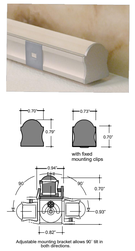


LUMINAIRE REQUIREMENTS TYPE "BOL"

NOT TO SCALE

NOTES:

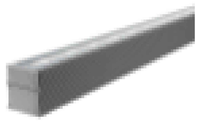
1. 120V
2. "UL" UNDERWRITERS LABORATORY LISTED FOR WET LOCATION
3. ATTACH BOLLARD TO CONCRETE FOUNDATION PER MANUFACTURE RECOMMENDATIONS.



LUMINAIRE REQUIREMENTS TYPE "GW"

NOT TO SCALE

1. 120V
2. "UL" UNDERWRITERS LABORATORY LISTED FOR WET LOCATION



LUMINAIRE REQUIREMENTS TYPE "LFOP"

NOT TO SCALE

1. 120V
2. "UL" UNDERWRITERS LABORATORY LISTED FOR A FOR WET LOCATION

PANELBOARD "MDP"

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

EQUIPMENT	CIRCUIT BREAKER AMPS	POLE	WIRE SIZE	CONDUIT	CKT	AMPS A	AMPS B	AMPS A	AMPS B	CKT	CONDUIT	WIRE SIZE	POLE	CIRCUIT BREAKER AMPS	EQUIPMENT
SURGE SUPPRESSOR	30	2			1			2.5		2			1	20	WALL LIGHTING
"	"	"			3				1.5	4			1	20	DUPLEX RECEPTACLE
ROOF LIGHTING	20	1			5	4.9		0.0		6					SPACE
SITE LIGHITNG	20	1			7		0.3		0.0	8					SPACE
SPACE					9	0.0		0.0		10					SPACE
SPACE					11		0.0		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 TYPE	LAMP QUANTITY	WATTAGE PER LAMP	VOLTAGE	MOUNTING	DESCRIPTION AND NOTES
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 CELING.
LFOP	A LIGHT D58FTLH40KUKSXPB-DQ	LED	3	304	120	RECESSED	3 EACH 8' FIXTURES, 3588 LUMENS

NOTES:
1. CONTRACTOR SHALL MOUNT BOLLARD TO CONCREATE 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%
	0				
2 RECEPTACLES:					PER NEC 2017 FIRST 10KVA @ 100%, REMAINDER @ 50%
3VA	3		3		
	0				
					THE AMPS INCLUDE 125% ASSUMING LOADS RUIN CONTINUOUS
TOTALS VA:	3		3.00	1,502 VA	
TOTAL KVA:				2 KVA	

CURRENT PER PHASE = $\frac{VA}{SQ3*240V}$.= 3.61 A

FOR CONSTRUCTION

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Tel: (850)-656-9834 Fax: (850)-942-2717

CLIENT: *CITY OF TAMPA*

PROJECT: *TAMPA RIVER WALL PLAZA*

SHEET TITLE: *SCHEDULES AND DETAIL*

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Job J Gammons
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DATE: 02/04/2021
DWG. NO.: DRAWING_NO
APPVD. BY: J.GAMMONS
PROJ. NO. PROJECT_NO
DWG. DRAWING_NAME
SCALE: NONE

NO	DATE	REVISIONS	INITIAL
1	5/11/2021	CHANGE TO NEC 2017 EDITION	J.G

SHEET NO E4.0
4 OF 5

SECTION 16050 - BASIC ELETRICAL MATERIALS AND METHODS

1. 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.
2. IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
3. COLORED 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).
4. TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
5. ENGRAVED-PLASTIC LABEL5, SIGNS, AND INSTRUCTION PLATES: ENGRAVNG 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.
6. PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
7. COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIRCATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT THE PROJECT.
8. 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.
9. REPAIR, REFINISH, AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
10. ALL WORK SHALL COMPLY WITH ALL CODES & STANDARDS LISTEO ON THE PLANS.

SECTION 16060 - GROUNDING AND BONDING

1. EQUIPMENT GROUNDING CONDUCTORS: COMPLY YITH 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.
2. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
3. ALL GROUNDING CONDUCTORS SHALL BE COPPER: COMPLY YITH DEVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
4. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

SECTION 16120 - CONDUCTORS AND CABLES

1. 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.
2. CONDUCTOR INSULATION TYPES: TYPE THHN-THWN COMPLYING WITH NEMA WC 5 OR WC 7
3. TYPE NM CABLE: NOT PERMITTED.
4. MC CABLE NOT PERMITTED.
5. EXPOSED FEEDERS, AND FEEDERS CONCEALED IN CONCRETE OR BELOW SLAB OR BELOW GRADE: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
6. CONDUIT SHALL BE ¾ INCH MINIMUM.
7. BRANCH CIRCUITS & FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY, OR MC CABLE WHERE ALLOWED BY CODE.
8. CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS.
9. 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.
10. INSTALL EXPOSED CABLES PARELLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
11. MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT ARE EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
12. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.
13. FREE CABLES ABOVE CEILING, NOT IN CONDUIT SHALL BE PLENUM RATED.

SECTION 16130 – RACEWAYS AND BOXES

1. 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.
2. UNLESS OTHERWISE NOTED, PR0VIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
3. MINIMUM RACEWAY SIZE: 3/4" TRADE SIZE.
4. KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.
5. PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
6. 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.
7. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS AND CEILINGS.
8. INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
9. 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.
10. 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

1. STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY YITH NEMA WD 1, NEMA WD 6, DSCC W-C-596G, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES: HEAVY-DUTY GRADE.
2. 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.
3. SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY YITH DSCC W-C-896F AND UL 20.
4. SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
5. FINISHES: WHITE, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 7D.
6. INSTALL DEVICES AND ASSEMBLIES LEVEL PLUMB, AND SQUARE WITH BUILDING LINES.
7. ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
8. REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
9. ADJUST LOCATIONS OF FLOOR SERVICE OUTLETS AND SERVICE POLES TO SUIT ARRANGEMENT OF PARTITIONS AND FURNISHINGS.
10. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS
11. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
12. ALL DEVICE PLATES SHALL BE NON-BREAKABLE, LEXAN TYPE.

SECTION 16511 - LIGHTING

1. LIGHTING FIXTURES: PER LIGHTING FIXTURE SCHEDULE. ALL LIGHTING SHALL BE THE LED TYPE
2. UNLESS OTHERWISE INDICATED, THD SHALL BE LESS THAN 20%, CURRENT CREST FACTOR LESS THAN 1. 7, OPERATING FREQUENCY GREATER THAN 20KHZ.
3. WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
4. FIXTURES: SET LEVEL PLUMB, AND SQUARE AND/OR MANUFACTURE RECOMMENDATIONS.
5. PROVIDE BLOCKING, BACKBOXES, SUPPORTS, AND OTHER HARDWARE AS NEEDED FOR A COMPLETE FUNCTIONAL INSTALLATION PER MANUFACTURE RECOMMENDATIONS.
6. FOR EMERGENCY LIGHTING, PROVIDE UNSWITCHED NORMAL POWER CONDUCTOR AS INDICATED ON THE PLANS.
7. CONTRACTOR SHALL PROVIDE MANUFACTURE LIGHTING FOOT-CANDLE PLAN AND SHOP DRAWING.
8. 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.
9. 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

1. ENCLOSE SWITCHES SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
2. EXTERIOR ENCLOSED SWITCHES SHALL BE LOCKABLE.
3. MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
4. ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED: ENCLOSURES SHALL BE NEMA 1 FOR INDOORS, NEMA 3R FOR OUTDOORS.
5. FIELD-COORDINATE EXACT LOCATION OF SWITCHES WITH EQUIPMENT SERVED, AND OTHER TRADES, TO ASSURE MINIMUM N.E.C. CLEARANCE REQUIREMENTS ARE MET.
6. 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 SYITCHES.

SECTION 16442 - PANELBOARDS

1. MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER OF THE EATON CORPORATION, GE, OR SIEMENS.
2. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1, OR TYPE 3R AS INDICATED.
3. PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
4. SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
5. FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DE⍰CES.
6. PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AS NOTED ON THE PANEL SCHEDULES.
7. MAIN OVERCURRENT PROTECTIVE DE⍰CES: CIRCUIT BREAKER.
8. MOUDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
9. 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 1O1").

ENERGY CONSERVATION REQUIREMENTS:

1. WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS, OPERATING MANUAL AND MAINTENANCE MANUALS TO THE BUILDING OWNER.
2. 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.
3. 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.
4. 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*

THIS PLAN IS NOT VALID - \ CONSTRUCTION UNL=SS SIGN=D AND S=AL=D BY TH= =NGIN==R O- \=CORD.

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DWG.	DRAWING_NAME
SCALE:	N/A

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5 OF 5