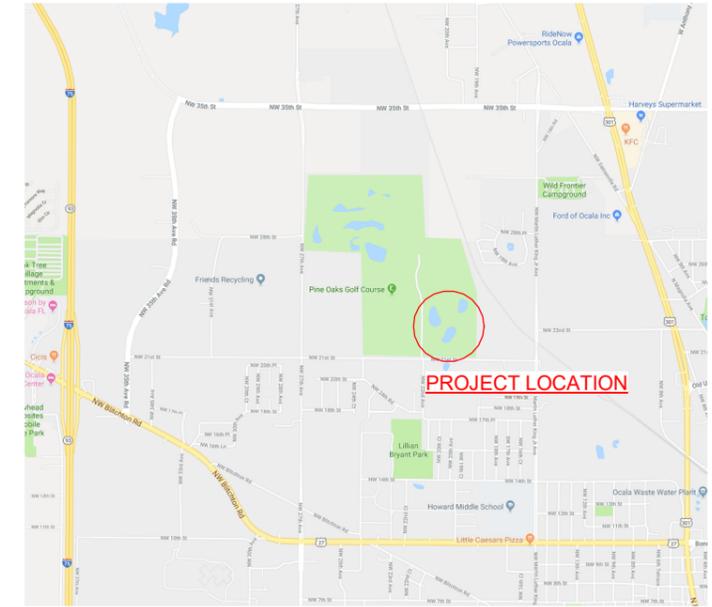
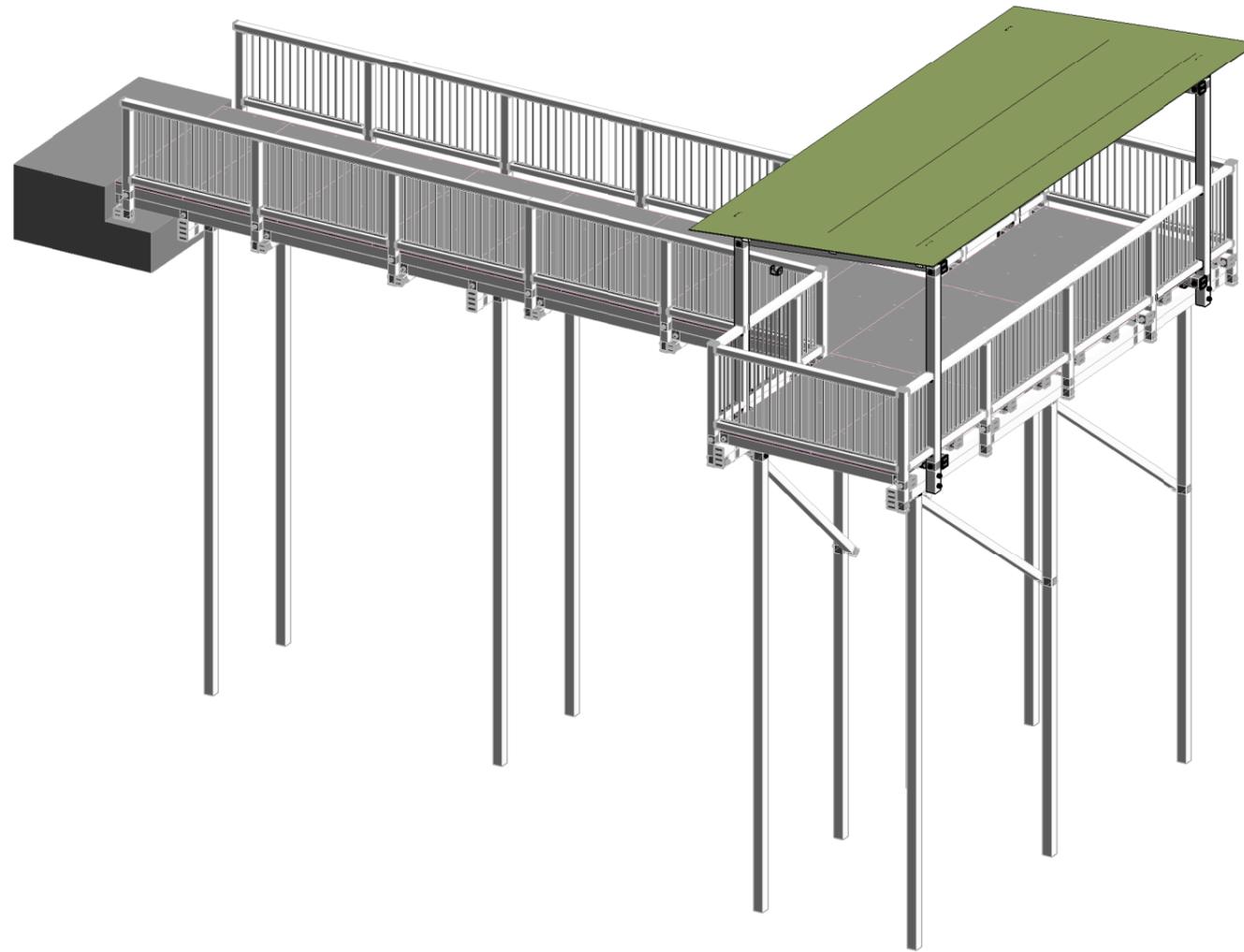


OCALA WETLANDS

NW 21st ST, OCALA FL USA for CITY OF OCALA



LOCALITY PLAN
NOT TO SCALE



ISOMETRIC VIEW

DRAWING SCHEDULE	
Sheet	Description
S001	LOCALITY PLAN
S002	GENERAL NOTES
S200	ROOF PLAN & ELEVATIONS
S201	SECTIONS A AND B
S202	SECTION C
S203	CONNECTION DETAILS
S204	CONNECTION DETAILS CONT'D

Rev.	Description	Date	Drwn
4	ISSUED FOR CONSTRUCTION	10.10.22	EMC
3	ISSUED FOR CONSTRUCTION	04.12.22	SYA
2	ISSUED FOR CONSTRUCTION	04.07.22	SYA
1	ISSUED FOR CONSTRUCTION	03.31.22	CP
A	ISSUED FOR REVIEW	01.24.22	SYA

Client's Acceptance:
Name:.....
Date:..... Signature:.....

Please sign only when 100% accurate to the design brief and that you have full understanding of site requirements for the installation of the structure. The structure will not be sent into production until the drawings have been signed by the client. Wagners will not be liable any Liquidated Damages caused by the delay of client's acceptance past the 5 days allowed for client acceptance.

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Michael Keller Lewis
Signer ID: OMYAEF08Y8...

This item has been digitally signed and sealed by Michael K. Lewis, PE, on **10/11/2022**

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



COMPOSITE FIBER TECHNOLOGIES
19077 S US HWY 377 | Cresson, Texas 76035
PH: 970-999-2344 www.wagnerscft.com

TITLE:
LOCALITY PLAN

PROJECT:
OCALA WETLANDS, NW 21st ST,
OCALA FL USA for CITY OF OCALA

PROJECT STATUS:
FOR CONSTRUCTION

DESIGN: RM	DATE: A3	DRAWN: SYA	DATE: JAZ
PROJECT NUMBER: SGU009	DRAWING NUMBER: S001	REV: 4	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																																																																												
GENERAL NOTES:					COMPOSITE FIBER:					STAINLESS STEEL NOTES:																																																																																
G1.	THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS.				B1.	ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH WAGNERS CFT MANUFACTURING PTY LTD, WORK INSTRUCTIONS AND QUALITY ASSURANCE STANDARDS.				S1.	STAINLESS STEEL MATERIAL SHALL NOT BE STORED WITH CARBON STEEL.																																																																															
G2.	BEFORE PROCEEDING WITH THE WORK ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE REFERRED FOR DECISION TO THE ENGINEER.				B2.	UNLESS OTHERWISE NOTED OR APPROVED, COMPOSITE MATERIALS FOR USE IN THIS PROJECT SHALL BE MANUFACTURED FROM ECR GLASS AND VINYL ESTER RESIN CONFORMING WITH ISO 9002 STANDARD.				S2.	TOOLS USED FOR CARBON STEEL SHALL NOT BE USED TO FABRICATE OR ASSEMBLE STAINLESS STEEL COMPONENTS. WORK AREA FOR STAINLESS STEEL SHALL BE ISOLATED FROM THOSE WHERE CARBON STEEL IS PROCESSED TO AVOID CONTAMINATION BY DUST OR DEBRIS.																																																																															
G3.	SETTING OUT DIMENSIONS AND SIZES OF STRUCTURAL MEMBERS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.				B3.	ALL MEMBERS SHALL BE IN SOUND CONDITION FREE FROM FITTING, DE-LAMINATIONS AND OTHER DEFECTS WHICH ARE LIKELY TO IMPAIR THE STRUCTURAL CAPACITY OF THE MEMBERS.				S3.	STAINLESS STEEL SHALL BE MARKED USING XYLENE FREE PENS ONLY.																																																																															
G4.	ANY SETTING OUT DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR BEFORE CONSTRUCTION COMMENCES.				B4.	WHERE MEMBERS ARE TO BE BOLTED A WCFT INSERT OR BUSH IS REQUIRED. - ALL WCFT INSERTS & BUSHES UNLESS NOTED OTHERWISE ARE TO BE: GLUED - WCFT INSERTS & BUSHES THAT ARE REQUIRED TO BE GLUED SHALL BE GLUED USING RL1972 ADHESIVE SUPPLIED BY WAGNERS AND APPLIED AS PER WAGNERS WORK INSTRUCTIONS.				S4.	STAINLESS STEEL SHALL NOT BE STORED IN CONTACT WITH TANTALISED WOODS																																																																															
G5.	ONLY DRAWINGS WITH ENGINEERS CERTIFICATION SIGNATURE AND WITH STATUS "FOR CONSTRUCTION" CAN BE USED FOR CONSTRUCTION.				B5.	APPLY A WATERPROOFING COMPOUND (HIGHBUILD ENDUROSEAL) TO SEAL ANY END CUT FIBERS, AS A RESULT OF DRILLING, CUTTING OR DAMAGE TO THE COMPOSITE FIBER PROFILES.				S5.	THE STAINLESS STEEL SHALL BE WRAPPED OR OTHERWISE PROTECTED DURING TRANSPORT TO AVOID CONTAMINATION BY FERROUS PRODUCTS. IF A PLASTIC COATING IS USED ALL TRACES OF ADHESIVE SHALL BE REMOVED ON REMOVAL OF THE PLASTIC.																																																																															
G6.	DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION. CONSTRUCTION LOADS MUST NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME OF LOADING.				B6.	ALL STRUCTURE EXPOSED ENDS OF COMPOSITE MEMBERS SHALL HAVE ENDCAPS INSTALLED AS PER WAGNERS WORK INSTRUCTIONS.				S6.	WELDING SHALL BE IN ACCORDANCE WITH RELEVANT AMERICAN STANDARDS.																																																																															
G7.	ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS INCLUDING AMENDMENTS OF THE RELEVANT AMERICAN STANDARDS, AMERICAN CODES OF PRACTICE EXCEPT AS VARIED BY THE CONTRACT DOCUMENTS AND OF THE BY-LAWS OF THE LOCAL GOVERNMENT AUTHORITY.				B7.	WHERE ADAPTER ENDCAPS ARE SHOWN, THEY ARE TO BE INSTALLED ON SITE AS PER WAGNERS WORK INSTRUCTIONS AND ENDCAPS ARE TO BE LOCALLY TRIMMED SO THAT THEY DON'T INTERFERE WITH BRACKETS.				S7.	ALL WELDS SHALL BE 1/4" CONTINUOUS FILLET WELDS OR FULL PENETRATION BUTT WELDS. ALL FABRICATED SECTIONS SHALL BE FULLY WELDED AND ARE NOT TO EXHIBIT CREVICES.																																																																															
G8.	ENVIRONMENTAL CONTROL PLAN IS TO BE PREPARED AND SUBMITTED FOR APPROVAL BY COUNCIL BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS.				B8.	ALL MEMBERS TO BE MARKED WITH THE MEMBER NUMBER, IF ENDCAPS ARE TO BE INSTALLED IN THE FACTORY THEY ARE TO BE STAMPED OTHERWISE IT IS TO BE LEGIBLY WRITTEN WITH A WHITE PEN.				S8.	LIMIT THE INPUT OF HEAT INTO THE WELD. THE WELD SHALL NOT BE PREHEATED, POST-HEATED OR STRESS RELIEVED.																																																																															
G9.	EROSION PROTECTION TO BE PROVIDED BY OTHERS AND TO BE IN ACCORDANCE WITH THE RELEVANT LOCAL STANDARDS.				B9.	FINISHES & COLOUR: - ALL MEMBERS IN DIRECT CONSTANT SUNLIGHT ARE TO BE COATED WITH A TWO PACK FLUOROPOLYMER COATING VITREFLON 700 APPLIED AS PER WAGNERS WORK INSTRUCTIONS. - ALL OTHER MEMBERS ARE TO BE COATED WITH A TWO PACK ACRYLIC POLYURETHANE COATING - POLY-U400 APPLIED AS PER WAGNERS WORK INSTRUCTIONS. - COLOUR OF ALL COMPOSITE MEMBERS TO BE = TBA.				S9.	GRADE 316L ELECTRODES SHALL BE USED FOR 316 AND AS/AWS2209 FOR DUPLEX.																																																																															
G10.	LOCATION OF SERVICES ARE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ON SITE PRIOR TO THE COMMENCEMENT OF WORKS.				B10.	AS FRP SECTIONS ARE ORTHOTROPIC THE EVALUATION AND UNDERSTANDING OF MATERIAL PROPERTIES WHEN DESIGNING COMPOSITE STRUCTURES IS PARAMOUNT. ALSO OF IMPORTANCE IS THE UNDERSTANDING OF HOW THESE MATERIAL PROPERTIES ARE USED: - WHEN CONSIDERING A LIMIT STATE OF COLLAPSE, RUPTURE OR EXCESSIVE DEFORMATION OF A STRUCTURE, SECTION, MEMBER OR CONNECTION IT SHALL BE CONFIRMED THAT: $R_d \geq E_d$ (WHERE R_d = DESIGN CAPACITY (EQUAL TO ϕR) AND E_d = DESIGN ACTION EFFECT (SEE CLAUSE 4.2) THE DESIGN CAPACITY (ϕR) IS A CAPACITY REDUCTION FACTOR (ϕ) MULTIPLIED BY R - DEFINED IN AS1170.0 CL 1.5 AS THE "NOMINAL CAPACITY (BASED ON FIFTH PERCENTILE STRENGTH)". TO COMPLY WITH THIS REQUIREMENT AND TO BE ABLE TO USE IN AN ENGINEER VALIDATED DESIGN, CHARACTERISTIC VALUES OF MATERIAL PROPERTIES SHALL BE CALCULATED IN ACCORDANCE WITH ASTM D7290. THIS STANDARD DEFINES THE CHARACTERISTIC VALUE AS "A STATISTICALLY-BASED MATERIAL PROPERTY REPRESENTING THE 80% LOWER CONFIDENCE BOUND ON THE 5TH-PERCENTILE VALUE OF A SPECIFIED POPULATION". REQUIRED MATERIAL PROPERTIES AND APPLICABLE TEST METHODS ARE LISTED IN THE TABLES. FOR EACH PROPERTY IN THESE TABLES A MINIMUM OF TEN TESTS CONDUCTED IN A NATA APPROVED OR AUSTRALIAN UNIVERSITY ARE REQUIRED BEFORE APPLYING THE PROCEDURE IN ASTM D7290 TO DETERMINE THE CHARACTERISTIC VALUE. AND ARE DETERMINED BASED ON THE FOLLOWING CONDITIONS: - SHORT TERM LOADING - AMBIENT TEMPERATURE OF 73°F ± 2°F AND RELATIVE HUMIDITY OF 50 ± 10% - A NEUTRAL CHEMICAL ENVIRONMENT				S10.	ALL STAINLESS STEEL COMPONENTS SHALL HAVE A SURFACE ROUGHNESS OF LESS THAN 19.685 MICRONS Ra AND BE PASSIVATED USING A 20% TO 25% NITRIC ACID SOLUTION FOR AT LEAST 30 MINUTES AT 104°F TO 140°F IN ACCORDANCE WITH ASTM A380.																																																																															
G11.	VERTICAL DATUM ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).									S11.	ALL EXPOSED EDGES ARE TO BE CONSIDERED SAFE EDGES, WE RECOMMEND THAT EDGES ARE TO BE GIVEN A RADIUS BETWEEN 3/64" & 1/8".																																																																															
DESIGN CERTIFICATION NOTES:										S12.	ALL STEEL MEMBERS TO BE FREE OF ANY FABRICATION DEFECTS AND PICKLING.																																																																															
W1.	THIS DESIGN CERTIFICATION APPLIES ONLY TO THE FRP COMPOSITE ELEMENTS MANUFACTURED AND SUPPLIED BY WAGNERS COMPOSITE FIBRE TECHNOLOGIES MANUFACTURING PTY LTD.									S13.	SHOULD THE STEEL SUPPLIER HAVE SHOP DRAWINGS PRODUCED THESE WILL BE SUBJECT TO A REVIEW BY WAGNERS MANUFACTURING PTY LTD'S DESIGN & ENGINEERING DEPARTMENT, BEFORE FABRICATION HAS COMMENCED. FABRICATION MAY NOT COMMENCE UNTIL THE REVIEW HAS BEEN COMPLETED. THE REVIEW DOES NOT REMOVE OR REDUCE THE CONTRACTOR RESPONSIBILITY TO CORRECTLY FABRICATE THE PARTS.																																																																															
W2.	THE PRINCIPAL CONTRACTOR IS TO ARRANGE AND PAY ALL COSTS RELATING TO THE CONSTRUCTION CERTIFICATE INCLUDING BUT NOT LIMITED TO : AN AS CONSTRUCTED SURVEY TO COMPARE TO THE LATEST ISSUE OF THE DESIGN DOCUMENTS, INSPECTIONS BY A GEOTECHNICAL ENGINEER AND A REGISTERED STRUCTURAL ENGINEER AT VARIOUS STAGES OF THE CONSTRUCTION PHASE.									S14.	WHERE MEMBERS SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE BENT, CURVED OR ROLLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE METHODS REQUIRED TO ACHIEVE THE REQUIRED SHAPES WITHOUT LOCALIZED DISTORTION OF THE MEMBERS.																																																																															
W3.	THE CONSTRUCTION CERTIFICATE SHALL STATE THAT ALL CONSTRUCTION WORKS ARE AS PER THE DESIGN BRIEF, AND SHALL BE ACCOMPANIED WITH AN "AS CONSTRUCTED" SET OF DRAWINGS WITH ALL VARIATIONS UPDATED IN THE STRUCTURE DURING THE CONSTRUCTION PHASE.									S15.	ALL BOLTS ARE TO BE SUPPLIED WITH TWO WASHERS & ONE NYLOC NUT. ALL THREADED RODS TO BE SUPPLIED WITH TWO WASHERS, ON ONE END ONE NYLOC NUT AND ON THE OTHER END TWO STANDARD NUTS. WHERE BOLTED CONNECTIONS ARE USED IN THE TRAFFICABLE AREA DOME NUTS ARE TO BE USED.																																																																															
W4.	CERTIFICATION EXCLUSIONS: GEOMETRIC DESIGN & SETOUT.									S16.	ALL STAINLESS STEEL HANDRAILS AND CONNECTING BRACKETS SHALL BE POLISHED TO 800 GRIT AND GIVEN A MIRROR FINISH. SURFACE FINISHES OF WELDS FOR HANDRAILS AND HANDRAIL BRACKETS SHALL BE GRADE 1. POLISH USING 800 GRIT OR FINER SILICON CARBIDE ABRASIVE WITH LUBRICATION WITH MIRROR FINISH. AFTER POLISHING, WELDS SHALL BE PASSIVATED USING A 20% TO 25% NITRIC ACID SOLUTION TO THE GROUND / POLISHED AREA IN ACCORDANCE WITH ASTM A380 FOR AT LEAST 30 MINUTES BETWEEN 104°F TO 140°F.																																																																															
W5.	THE DESIGN CRITERIA FOR THIS PROJECT ARE: L1. DESIGNED AS PER FLORIDA BUILDING CODE 2020 7TH EDITION. L2. OTHER DESIGN CODES = ASCE 7-05 Chapter 15 (seismic design of non-building structures). L3. DEAD LOAD - Q = SELF WEIGHT OF STRUCTURE L4. WIND LOAD - Vult : 140 Mph, WIND IMPORTANCE FACTOR = 1, WIND EXPOSURE = C, ROOF ANGLE = 0 TO 7 DEGREES, ZONE = 2, MEAN ROOF HEIGHT = 15FT, COMPONENTS AND CLADDING DESIGN PRESSURE LOADS = 12 PSF POSITIVE OR 34 PSF NEGATIVE, PRESSURE PER TABLE R301.2(2) AND R301.2(3) L5. SEISMIC LIMITS = MAPPED SPECTRAL RESPONSE ACCELERATIONS S _s = 0.080g S ₁ = 0.042g DESIGN SPECTRAL RESPONSE ACCELERATIONS S _{0.5} = 0.0853g S _{0.1} = 0.0672g SITE CLASS = D SEISMIC DESIGN CATEGORY = B IMPORTANCE FACTOR = 1.0 LONG PERIOD TRANSITION PERIOD, T _l = 8 sec RESPONSE MODIFICATION FACTOR, R = 3.5 APPLIED LOAD TO STRUCTURE = 0.033887 kN/m = 24.993 ib/ft				B11.	WCFT COMPOSITE MATERIALS: <table border="1"> <thead> <tr> <th>COMPONENT</th> <th>MATERIAL</th> </tr> </thead> <tbody> <tr> <td>Reinforcement</td> <td>Continuous ECR Glass Fiber</td> </tr> <tr> <td>Matrix</td> <td>Vinyl Ester Resin</td> </tr> <tr> <td>Veil</td> <td>Thermoplastic Non-woven</td> </tr> <tr> <td>Additives</td> <td>Proprietary catalysts, mould release & polymer additives</td> </tr> </tbody> </table> NOTE: For further information contact Wagners CFT.				COMPONENT	MATERIAL	Reinforcement	Continuous ECR Glass Fiber	Matrix	Vinyl Ester Resin	Veil	Thermoplastic Non-woven	Additives	Proprietary catalysts, mould release & polymer additives																																																																							
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L6.	HANDRAIL = SERVICEABILITY LIMIT STATE CRITERIA OF POST AND RAIL SYSTEM, H/60 + L/240 SIDE SWAY MID-SPAN SYSTEM DEFLECTION LIMIT, OVERCROWDING HAS NOT BEEN CONSIDERED: <table border="1"> <thead> <tr> <th colspan="5">LIVE LOADS FOR BARRIERS</th> </tr> <tr> <th colspan="3">TOPRAIL</th> <th colspan="2">INFILL</th> </tr> <tr> <th>HORIZONTAL (PLF)</th> <th>VERTICAL (PLF)</th> <th>LATERAL LOAD PLACED ANYWHERE ALONG THE RAILS</th> <th>HORIZONTAL (PSF)</th> <th>VERTICAL (PLF)</th> </tr> </thead> <tbody> <tr> <td>51</td> <td>51</td> <td>200lb</td> <td>21</td> <td>34</td> </tr> </tbody> </table>				LIVE LOADS FOR BARRIERS					TOPRAIL			INFILL		HORIZONTAL (PLF)	VERTICAL (PLF)	LATERAL LOAD PLACED ANYWHERE ALONG THE RAILS	HORIZONTAL (PSF)	VERTICAL (PLF)	51	51	200lb	21	34	B13.	THE MECHANICAL PROPERTIES OF WCFT GRADE GV36-S SHS FRP MEMBERS ARE: <table border="1"> <thead> <tr> <th>PROPERTY</th> <th>NOTATION</th> <th>VALUE</th> <th>TEST METHOD</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength - Longitudinal</td> <td>f_L</td> <td>88.47 ksi</td> <td></td> </tr> <tr> <td>Tensile Modulus Of Elasticity - Longitudinal</td> <td>E_L</td> <td>5264.87 ksi</td> <td>ISO 527-4</td> </tr> <tr> <td>Poisson's Ratio - Longitudinal</td> <td>ν_L</td> <td>0.28</td> <td></td> </tr> <tr> <td>Tensile Strength - Transverse</td> <td>f_T</td> <td>7.977 ksi</td> <td></td> </tr> <tr> <td>Tensile Modulus Of Elasticity - Transverse</td> <td>E_T</td> <td>1566.4 ksi</td> <td>ISO 527-4</td> </tr> <tr> <td>Poisson's Ratio - Transverse</td> <td>ν_T</td> <td>0.09</td> <td></td> </tr> <tr> <td>Compressive Strength - Longitudinal</td> <td>f_{LC}</td> <td>70.34 ksi</td> <td>ASTM D6641</td> </tr> <tr> <td>Compressive Modulus Of Elasticity - Longitudinal</td> <td>E_{LC}</td> <td>4829.75 ksi</td> <td></td> </tr> <tr> <td>Compressive Strength - Transverse</td> <td>f_{TC}</td> <td>17.4 ksi</td> <td>ASTM D6641</td> </tr> <tr> <td>Compressive Modulus Of Elasticity - Transverse</td> <td>E_{TC}</td> <td>1682.438 ksi</td> <td></td> </tr> <tr> <td>In-Plane Shear Strength - Longitudinal</td> <td>f_{LV}</td> <td>12.18 ksi</td> <td>ASTM D7078</td> </tr> <tr> <td>In-Plane Shear Modulus Of Elasticity - Longitudinal</td> <td>G_L</td> <td>620.76 ksi</td> <td></td> </tr> <tr> <td>Interlaminar Shear Strength</td> <td>f_{IV}</td> <td>6.38 ksi</td> <td>ASTM D2344</td> </tr> </tbody> </table> NOTE: The values in the table are characteristic values to be used for design in normal ambient conditions. It does not include adjustment factors to account for temperature, humidity, and chemical environments.				PROPERTY	NOTATION	VALUE	TEST METHOD	Tensile Strength - Longitudinal	f _L	88.47 ksi		Tensile Modulus Of Elasticity - Longitudinal	E _L	5264.87 ksi	ISO 527-4	Poisson's Ratio - Longitudinal	ν _L	0.28		Tensile Strength - Transverse	f _T	7.977 ksi		Tensile Modulus Of Elasticity - Transverse	E _T	1566.4 ksi	ISO 527-4	Poisson's Ratio - Transverse	ν _T	0.09		Compressive Strength - Longitudinal	f _{LC}	70.34 ksi	ASTM D6641	Compressive Modulus Of Elasticity - Longitudinal	E _{LC}	4829.75 ksi		Compressive Strength - Transverse	f _{TC}	17.4 ksi	ASTM D6641	Compressive Modulus Of Elasticity - Transverse	E _{TC}	1682.438 ksi		In-Plane Shear Strength - Longitudinal	f _{LV}	12.18 ksi	ASTM D7078	In-Plane Shear Modulus Of Elasticity - Longitudinal	G _L	620.76 ksi		Interlaminar Shear Strength	f _{IV}	6.38 ksi	ASTM D2344					
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L7.	SERVICEABILITY LIMITS = DEFLECTION UNDER TOTAL LOAD = L/240 DEFLECTION UNDER LIVE LOAD = L/360 NATURAL FREQUENCY, F _n > 5.0Hz, UNLESS HEEL DROP AND EXCITATION LIMITS ARE ADEQUATE.				B14.	THE PHYSICAL PROPERTIES OF WCFT GRADE GV36-S SHS FRP MEMBERS ARE: <table border="1"> <thead> <tr> <th>PROPERTY</th> <th>NOTATION</th> <th>VALUE</th> <th>TEST METHOD</th> </tr> </thead> <tbody> <tr> <td>Density</td> <td>ρ</td> <td>126.73 lb/ft³</td> <td>ASTM D792</td> </tr> <tr> <td>Barcol Hardness</td> <td></td> <td>60</td> <td>ASTM D2583</td> </tr> <tr> <td>Water Absorption</td> <td></td> <td>0.2 %</td> <td>ISO 62</td> </tr> <tr> <td>Glass Transition Temperature</td> <td>T_g</td> <td>266°F</td> <td>ASTM D7029</td> </tr> <tr> <td>Fiber Mass Fraction</td> <td>W_f</td> <td>77.4 %</td> <td></td> </tr> <tr> <td>Fiber Volume Fraction</td> <td>V_f</td> <td>57.7 %</td> <td>ISO 1172</td> </tr> <tr> <td>Coefficient Of Thermal Expansion - Longitudinal</td> <td>α_L</td> <td>2.7944x10⁻⁶ in/in/°F</td> <td>ISO11359-2</td> </tr> </tbody> </table> NOTE: The values in the table are mean values obtained from tests at ambient temperature and relative humidity.				PROPERTY	NOTATION	VALUE	TEST METHOD	Density	ρ	126.73 lb/ft ³	ASTM D792	Barcol Hardness		60	ASTM D2583	Water Absorption		0.2 %	ISO 62	Glass Transition Temperature	T _g	266°F	ASTM D7029	Fiber Mass Fraction	W _f	77.4 %		Fiber Volume Fraction	V _f	57.7 %	ISO 1172	Coefficient Of Thermal Expansion - Longitudinal	α _L	2.7944x10 ⁻⁶ in/in/°F	ISO11359-2																																																	
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L8.	STRUCTURAL DESIGN OF POLYMER COMPOSITES, EUROCOMP DESIGN MANUAL AND HANDBOOK 1996, EDITED BY JOHN L CLARK.									CONSTRUCTION NOTES:																																																																																
										C1.	NO CONSTRUCTION LOADS HAVE BEEN CONSIDERED AS PART OF THE DESIGN. SHOULD THIS BE NEEDED CONSIDERED THE CONTRACTOR IS TO CONTACT WAGNERS SO THAT THE DESIGN CAN BE ASSESSED FOR THESE LOADS.																																																																															
										C2.	IT IS RECOMMENDED THAT TEST PILES SHOULD BE DRIVEN AT SEVERAL LOCATIONS ON THE SITE TO ESTABLISH ORDER LENGTH. IF DYNAMIC MEASUREMENTS ARE NOT TAKEN, THESE TEST PILES SHOULD BE DRIVEN AFTER THE DRIVING CRITERIA HAS BEEN ESTABLISHED. IF DYNAMIC MEASUREMENTS DURING DRIVING ARE TAKEN, BOTH ORDER LENGTHS AND DRIVING CRITERIA SHOULD BE ESTABLISHED AFTER THE TEST PILE(S) ARE DRIVEN. DYNAMIC MEASUREMENTS OBTAINED DURING TEST PILE DRIVING, SIGNAL MATCHING ANALYSES, AND WAVE EQUATION ANALYSES SHOULD BE USED TO DETERMINE THE DRIVING CRITERIA (BEARING REQUIREMENTS).																																																																															
										C3.	DURING THE REVIEW OF THE GEOTECHNICAL REPORT IT WAS IDENTIFIED THAT SOME AREAS OF THE SITE MAY REQUIRE PRE-BORING BEFORE DRIVING THE THE BOARDWALK AND PLATFORM PILES.																																																																															
										C4.	DURING THE INSTALLATION OF THE PILES, DRIVING LOGS WILL BE NEED TO BE RECORDED FOR EACH PILE. THESE DRIVING LOGS WILL NEED TO CONSIDER : DATE AND TIME FROM THE FIRST BLOW TO THE LAST, PILE IDENTIFICATION/LOCATION, WEATHER/GROUNDWATER CONDITIONS, THE HAMMER TYPE(INCLUDING SIZE AND SPEED OF THE HAMMER), TYPE OF PILE CAP/CUSHION USED, PILE DIMENSIONS(INCLUDING SIZE AND LENGTH), LENGTH OF PILE TAKEN IN LEADS, GROUND ELEVATION, FINAL TIP ELEVATION, ELEVATION OF CUT-OFF, EFFECTIVE LENGTH LEFT IN-PLACE, NUMBER OF BLOWS FOR EACH FOOT OF PENETRATION, FINAL DRIVING RESISTANCE IN BLOWS FOR LAST 6 INCHES OF DRIVING, COMPUTED BEARING IN TONS, PILE DEVIATION FROM PLAN LOCATION AND ANY NOTES ON UNUSUAL PHENOMENA.																																																																															
										C5.	WAGNERS WILL SUPPLY THE MEMBERS AS FOLLOWS: PILES WILL BE IN 23' LENGTHS AND ARE TO BE SPLICED TOGETHER AS REQUIRED TO REACH THE REQUIRED PILE SET, ALL BEARERS WILL BE SUPPLIED TO LENGTH AND COME UNDRILLED TO ALLOW FOR PILING TOLERANCES, THE BRACES, JOISTS AND RAILS WILL BE SUPPLIED UNDRILLED AND OVERLENGTH TO ALLOW FOR SITE TOLERANCES AND ALL HANDRAIL POSTS & TIEBRACES WILL BE SUPPLIED TO LENGTH, DRILLED, INSERTED AND ENCAPPED.																																																																															
										C6.	EXPANSION JOINTS WILL BE REQUIRED EVERY 164' INCREMENTS ALONG EACH STRUCTURE, THIS WILL BE IN THE FORM OF SLOTTED BRACKET AND BOLT CONNECTIONS TO THE JOISTS AND RAILS ALLOWING FOR 25/64" OF TOTAL MOVEMENT.																																																																															

			Client's Acceptance:			 Michael Keller Lewis Signer ID: OMYAEFO8Y8... This item has been digitally signed and sealed by Michael K. Lewis, PE, on 10/11/2022. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.			 WAGNERS COMPOSITE FIBER TECHNOLOGIES 19077 S US HWY 377 Cresson, Texas 76035 PH: 970-999-2344 www.wagnerscft.com			TITLE: GENERAL NOTES PROJECT: OCALA WETLANDS, NW 21st ST, OCALA FL USA for CITY OF OCALA			PROJECT STATUS: FOR CONSTRUCTION DESIGN: RM DATE: 10.10.22 DRAWN: SYA DATE: 04.12.22 SCALE: A3 SHEET: JAZ CHECKED: SYA DATE: 03.31.22 PROJECT NUMBER: SGU009 DRAWING NUMBER: S002 REV: 4		
4	ISSUED FOR CONSTRUCTION	10.10.22	EMC														
3	ISSUED FOR CONSTRUCTION	04.12.22	SYA														
2	ISSUED FOR CONSTRUCTION	04.07.22	SYA														
1	ISSUED FOR CONSTRUCTION	03.31.22	CP														
A	ISSUED FOR REVIEW	01.24.22	SYA														
Rev.	Description	Date	Drwn														

MEMBER SCHEDULE-ROOF STRUCTURE

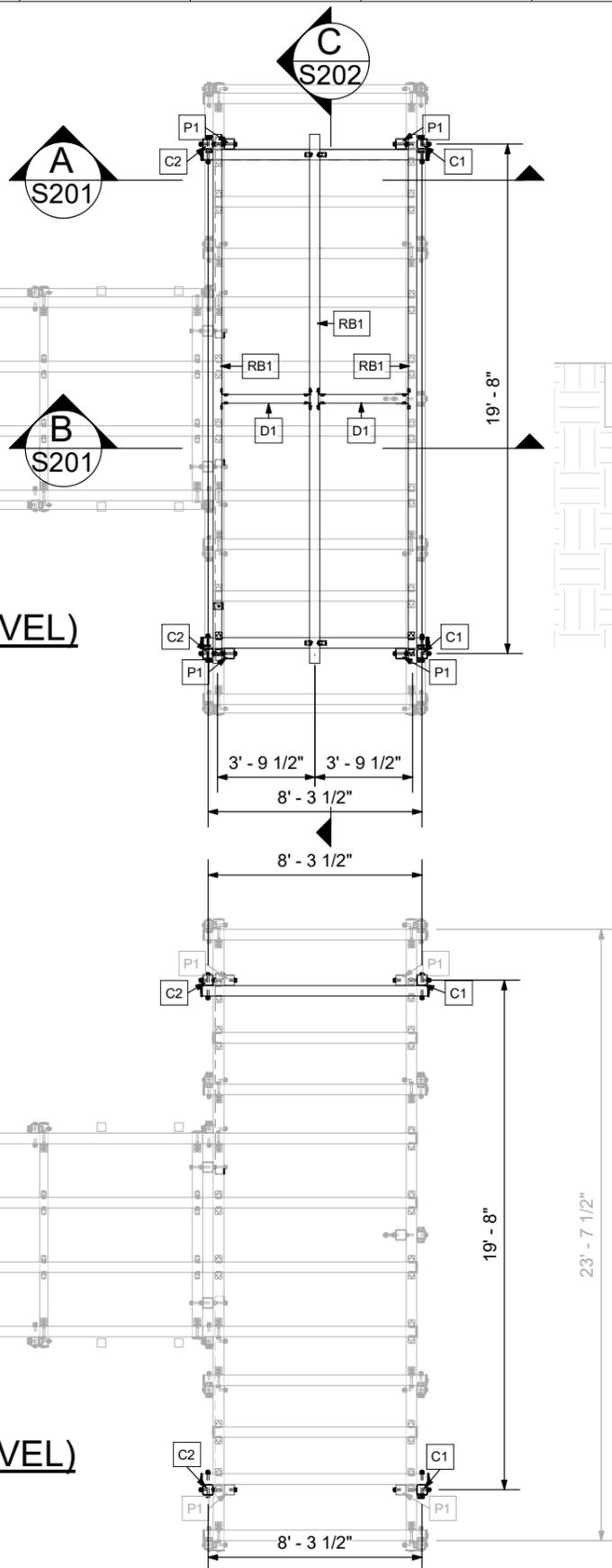
Member	Member Usage	Member Size
B6	Bearer	WCFT 5"x5"x1/4" SHS
D1	Diaphragms	WCFT 4"x4"x13/64" SHS
RB1	Roof beam	WCFT 4"x10"x5/16" RHS
C1	Column	WCFT 5"x5"x1/4" SHS
C2	Column	WCFT 5"x5"x1/4" SHS

ROOF STRUCTURAL SETOUT (ROOF LEVEL)

1 : 75

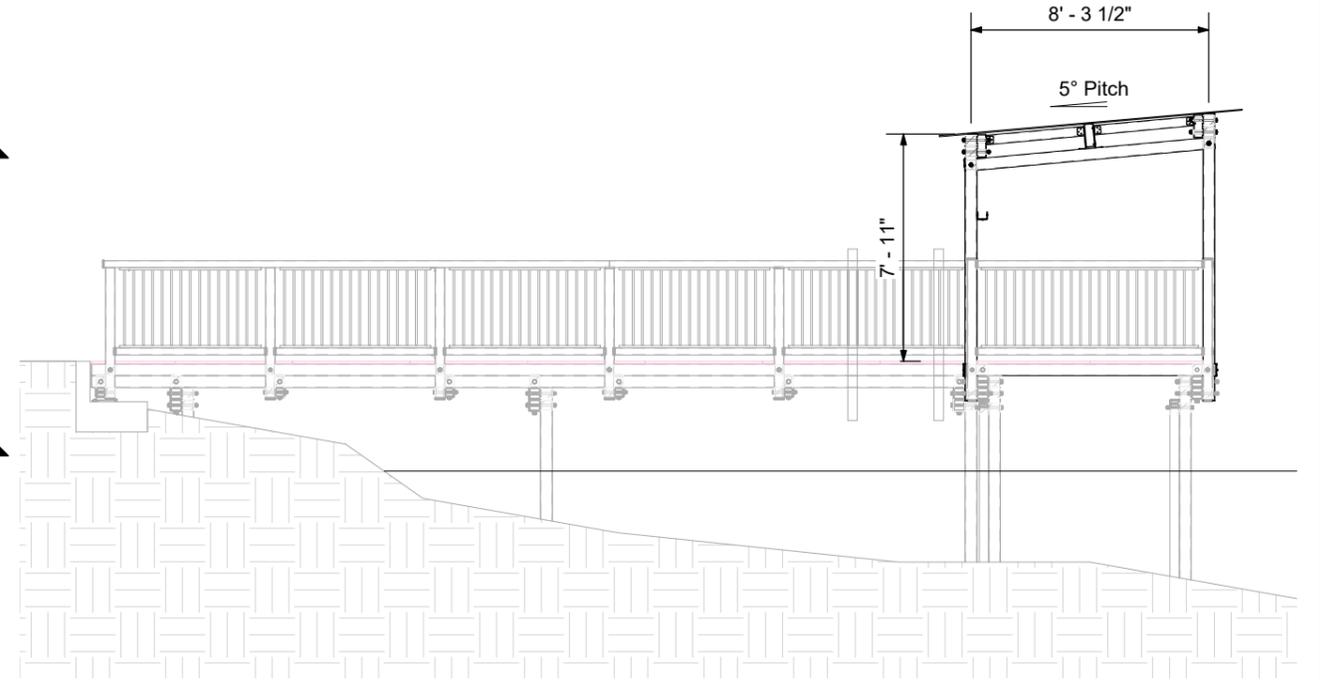
ROOF STRUCTURAL SETOUT (DECK LEVEL)

1 : 75



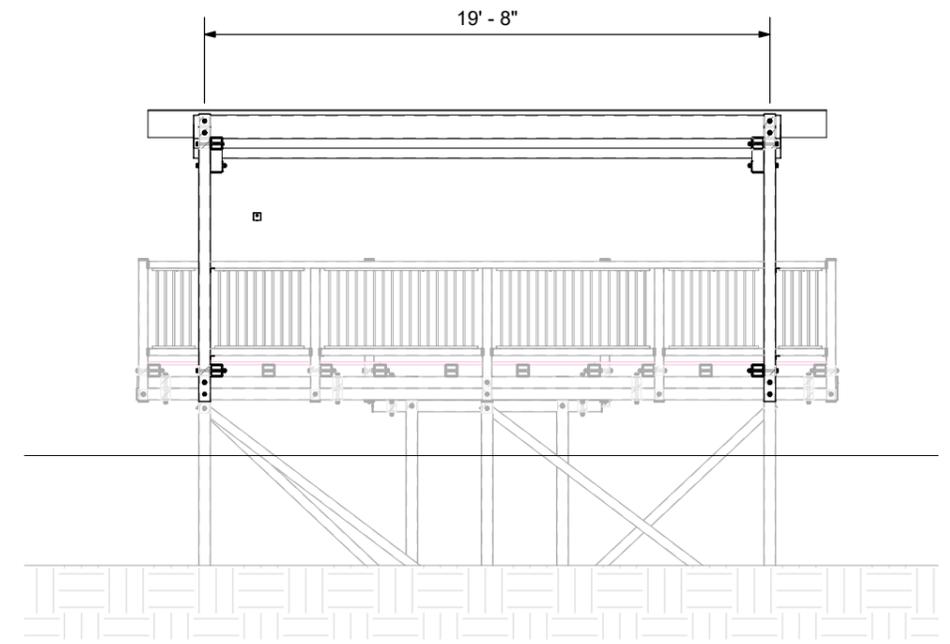
ROOF SIDE ELEVATION

1 : 75



ROOF END ELEVATION

1 : 75



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Date: Signature:

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Rev. Description Date Drwn

4	ISSUED FOR CONSTRUCTION	10.10.22	EMC
3	ISSUED FOR CONSTRUCTION	04.12.22	SYA
2	ISSUED FOR CONSTRUCTION	04.07.22	SYA
1	ISSUED FOR CONSTRUCTION	03.31.22	CP
A	ISSUED FOR REVIEW	01.24.22	SYA



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TITLE:
ROOF PLAN & ELEVATIONS

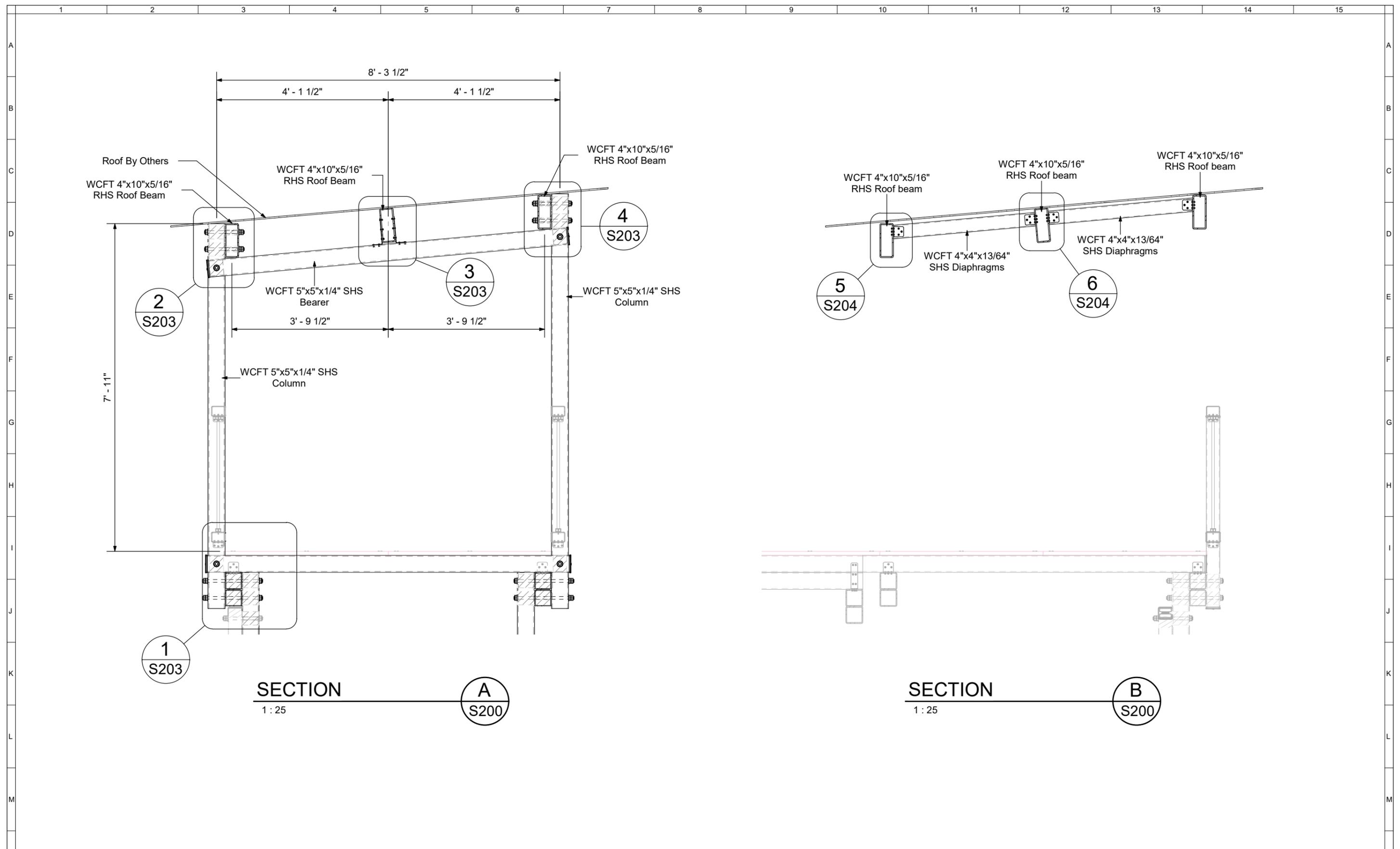
PROJECT:
 OCALA WETLANDS, NW 21st ST,
 OCALA FL USA for CITY OF OCALA

PROJECT STATUS:
FOR CONSTRUCTION

DESIGN: RM DATE: DATE: DRAWN: SYA CHECKED: SYA DATE: DATE:

SCALE: 1 : 75 SHEET: A3 JAZ

PROJECT NUMBER: SGU009 DRAWING NUMBER: S200 REV: 4



SECTION

1 : 25

A

S200

SECTION

1 : 25

B

S200

Rev.	Description	Date	Drwn
5	ISSUED FOR CONSTRUCTION	10.10.22	EMC
4	SECTION B REVISED	04.12.22	SYA
3	ISSUED FOR CONSTRUCTION	04.12.22	SYA
2	ISSUED FOR CONSTRUCTION	04.07.22	SYA
1	ISSUED FOR CONSTRUCTION	03.31.22	CP
A	ISSUED FOR REVIEW	01.24.22	SYA

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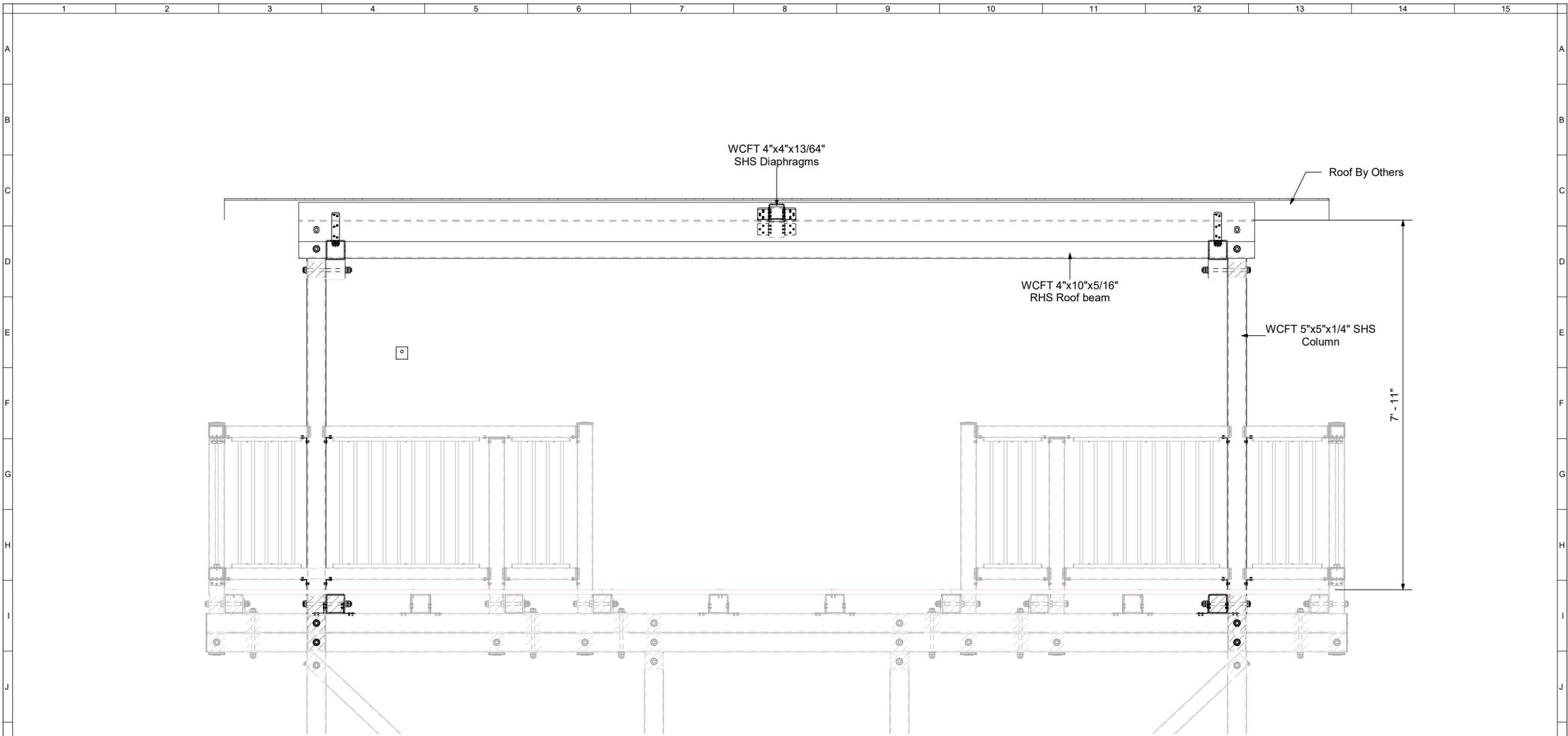


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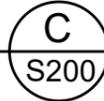
TITLE: **SECTIONS A AND B**
 PROJECT: **OCALA WETLANDS, NW 21st ST, Ocala FL USA for CITY OF Ocala**

PROJECT STATUS: FOR CONSTRUCTION			
DESIGN: RM	DATE:	DRAWN: SYA	DATE:
SCALE: 1 : 25	SHEET: A3	CHECKED: JAZ	DATE:
PROJECT NUMBER: SGU009	DRAWING NUMBER: S201	REV: 5	



SECTION

1 : 25



Rev.	Description	Date	Drwn
4	ISSUED FOR CONSTRUCTION	10.10.22	EMC
3	ISSUED FOR CONSTRUCTION	04.12.22	SYA
2	ISSUED FOR CONSTRUCTION	04.07.22	SYA
1	ISSUED FOR CONSTRUCTION	03.31.22	CP
A	ISSUED FOR REVIEW	01.24.22	SYA

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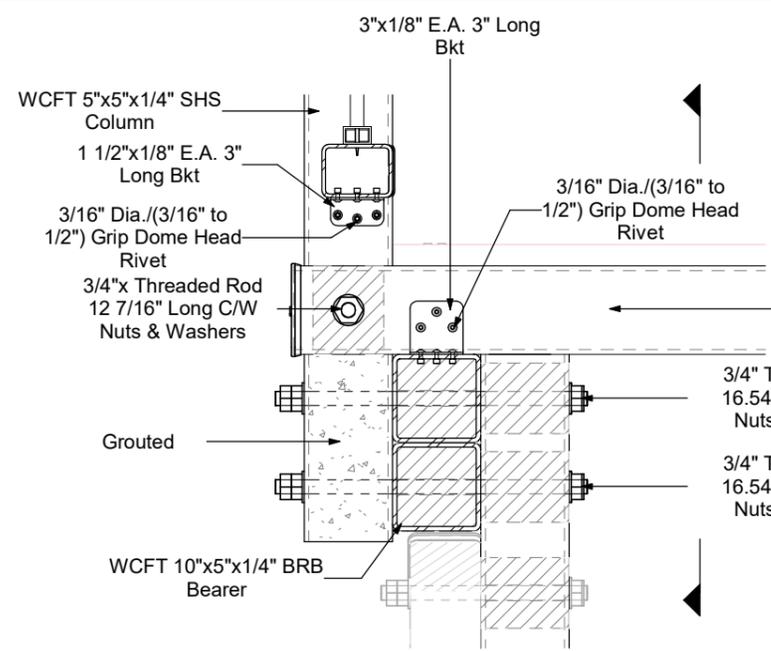
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 PH: 970-999-2344 www.wagnerscft.com

TITLE: **SECTION C**
 PROJECT: **OCALA WETLANDS, NW 21st ST, Ocala FL USA for CITY OF Ocala**

PROJECT STATUS: FOR CONSTRUCTION			
DESIGN: RM	DATE:	DRAWN: SYA	DATE:
SCALE: 1 : 25	SHEET: A3	CHECKED: JAZ	DATE:
PROJECT NUMBER: SGU009	DRAWING NUMBER: S202	REV: 4	

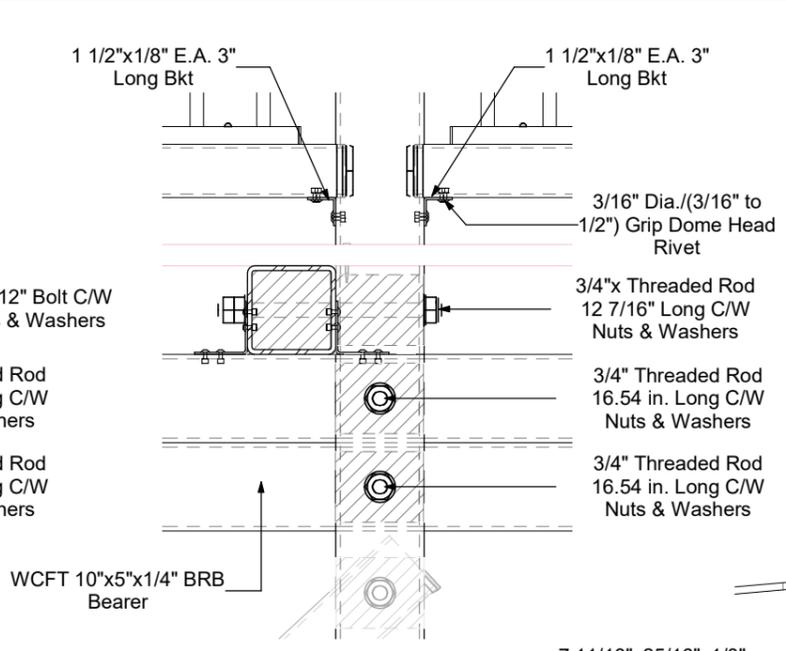
NOTES

- ALL BOLTED CONNECTIONS TO HAVE WCFT INSERTS.
- ALL BOLTS, BRACKETS, RIVETS & SCREWS TO BE GRADE A4/316 STAINLESS STEEL, PROPERTY CLASS 70 TO ISO 3506 AS PER STAINLESS STEEL NOTES ON S002.

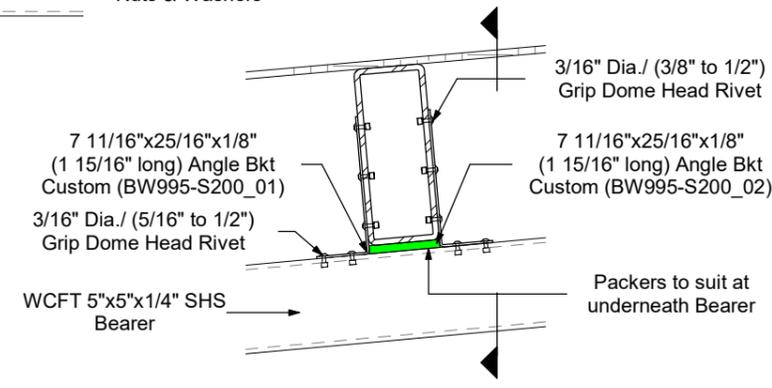


DETAIL
1 : 10

1
S201

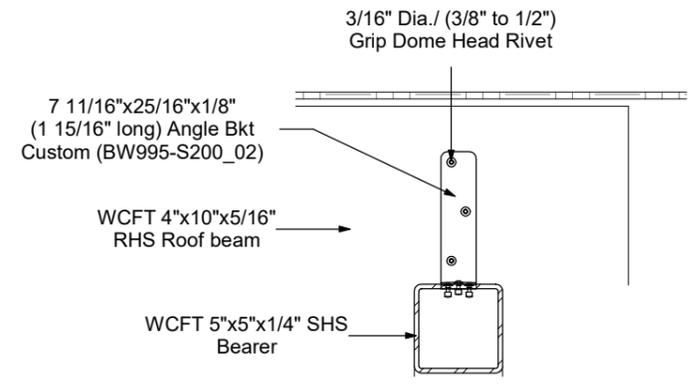


SECTION

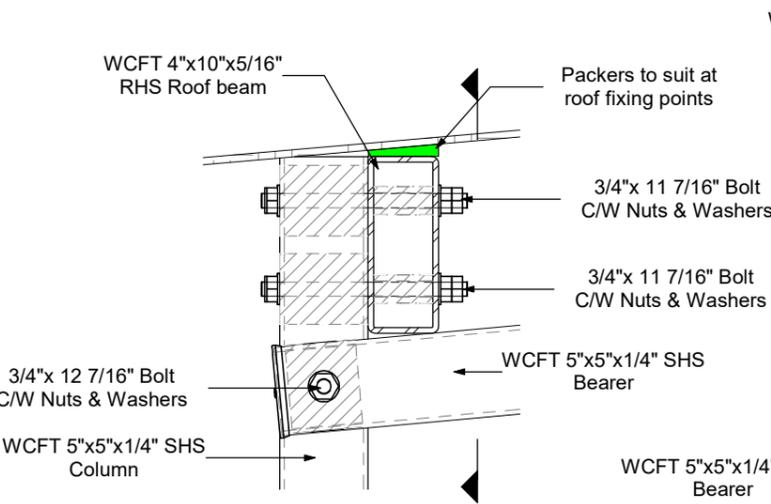


DETAIL
1 : 10

3
S201

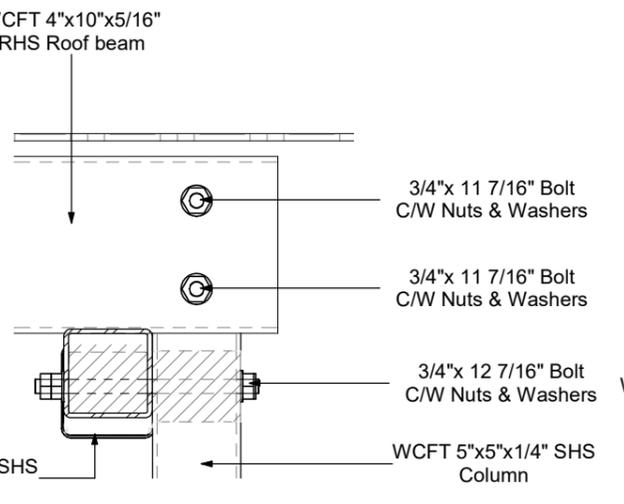


SECTION

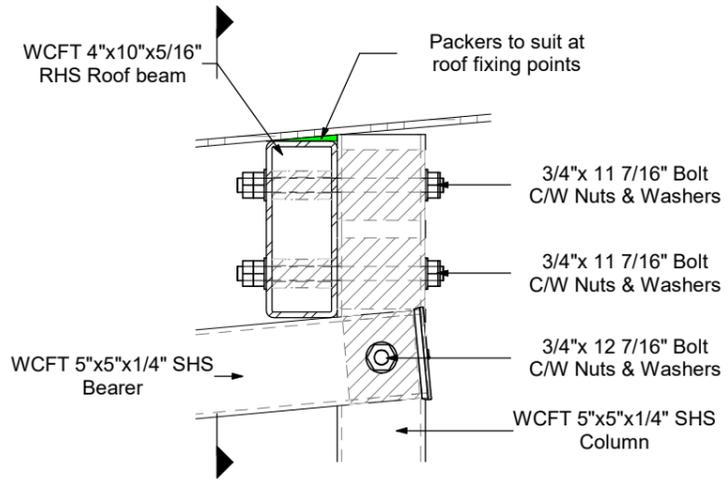


DETAIL
1 : 10

2
S201

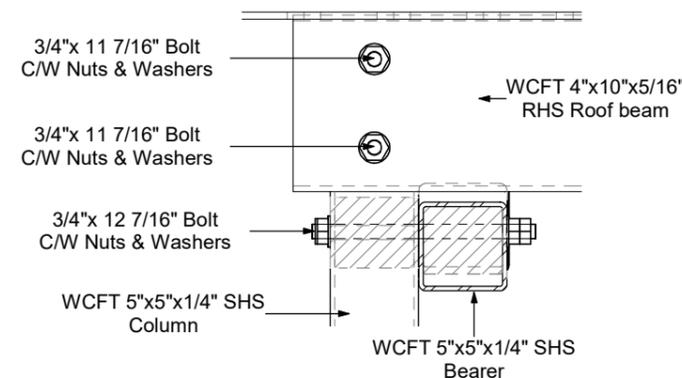


SECTION



DETAIL
1 : 10

4
S201



SECTION

Rev.	Description	Date	Drwn
4	ISSUED FOR CONSTRUCTION	10.10.22	EMC
3	ISSUED FOR CONSTRUCTION	04.12.22	SYA
2	ISSUED FOR CONSTRUCTION	04.07.22	SYA
1	ISSUED FOR CONSTRUCTION	03.31.22	CP
A	ISSUED FOR REVIEW	01.24.22	SYA

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10/11/2022
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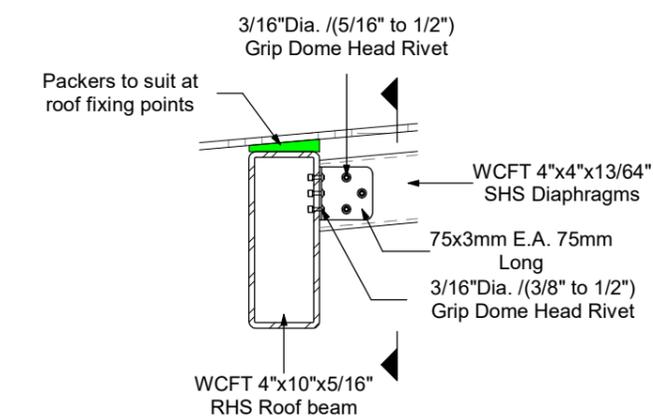
TITLE:
CONNECTION DETAILS

PROJECT:
OCALA WETLANDS, NW 21st ST, Ocala FL USA for CITY OF Ocala

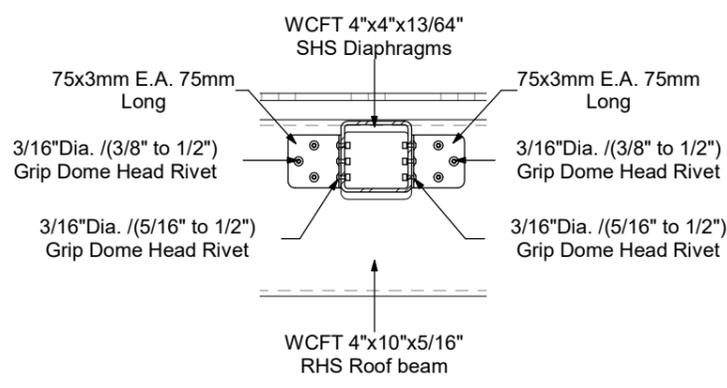
PROJECT STATUS: FOR CONSTRUCTION			
DESIGN: RM	DATE: 04.12.22	DRAWN: SYA	DATE: 04.12.22
SCALE: 1 : 10	SHEET: A3	CHECKED: JAZ	DATE: 04.12.22
PROJECT NUMBER: SGU009	DRAWING NUMBER: S203	REV: 4	

NOTES

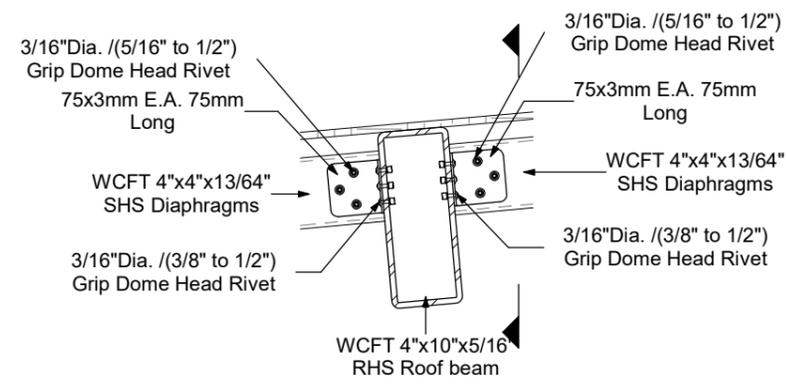
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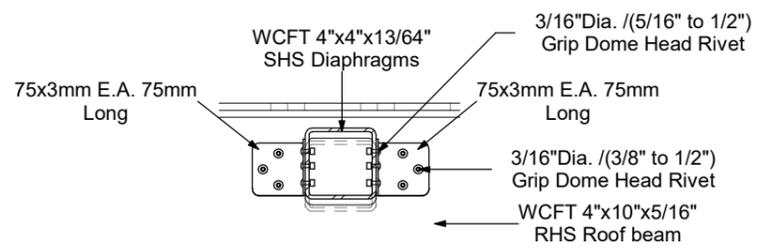
5
S201



SECTION



6
S201



SECTION

Client's Acceptance:			
Name:.....			
Date:..... Signature:.....			
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Rev.	Description	Date	Drwn
2	ISSUED FOR CONSTRUCTION	10.10.22	EMC
1	NEW PAGE ADDED	04.12.22	SYA



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TITLE:
CONNECTION DETAILS CONT'D
 PROJECT:
 OCALA WETLANDS, NW 21st ST, OCALA FL USA for CITY OF OCALA

PROJECT STATUS: FOR CONSTRUCTION			
DESIGN: RM	DATE:	DRAWN: SYA	DATE:
SCALE: 1 : 10	SHEET: A3	CHECKED: JAZ	DATE:
PROJECT NUMBER: SGU009	DRAWING NUMBER: S204	REV: 2	

Signature Certificate



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Author: Michael Lewis Creation Date: 11 Oct 2022, 06:29:36, PDT Completion Date: 11 Oct 2022, 06:32:39, PDT

Document Details:



Name: SGU009-IFC_stamped and signed 10-11-2022

Type:

Document Ref: 91c0185dc9fd31badbf4c315cd7df72340a3f61db71499d0533907f9b5b680b2

Document Total Pages: 7

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Email: chattahoochee.engineering@gmail.com
IP: 2600:1700:3210:5330:85fc:a644:61a6:8469
Location: SANDY SPRINGS, GA (US)
Date: 11 Oct 2022, 06:32:39, PDT
Consent: eSignature Consent Accepted
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Michael Keller Lewis

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