Post Office Box 3005
2831 Talleyrand Avenue
Jacksonville, Florida 32206-0005
www.jaxport.com

January 30, 2025

ADDENDUM NO. 01

TO
SPECIFICATIONS AND CONTRACT DOCUMENTS
FOR
INVITATION TO BID
CRUISE TERMINAL NEW GANGWAY
JPA CONTRACT NO.: C-2017C

The item(s) of this Addendum shall modify and become a part of the contractual documents for this project as of this date.
(Failure to acknowledge this addendum will be grounds for rejection of proposal)

PHYSICAL CHANGES TO CONTRACT SPECIFICATIONS

Item No. 01
Reference to **"DRAWINGS"**, **DELETE** in its entirety and **REPLACE** with **REVISED "DRAWINGS"**. *(See Attachment No. 5)*

Item No. 02
Reference to **"BID FORM, Pages BF-1 to BF-3"**, **DELETE** in its entirety and **REPLACE** with **REVISED "BID FORM, Pages BF-1 to BF-3".** *(See Attachment No. 6)*

ATTACHMENTS TO CONTRACT SPECIFICATIONS

Attachment No. 1 - *Optional Pre-Bid Meeting Minutes held on Tuesday, January 21, 2025 at 10:00 AM (ET)*
Attachment No. 2 - *Optional Site Visit Attendance held on Tuesday, January 21, 2025 at 2:00 PM (ET)*
Attachment No. 3 - *Response to Questions submitted by Email and in Trimble Unity Construct (e-Builder)*
Attachment No. 4 - *Summary of Changes*
Attachment No. 5 - *Revised Drawings*
Attachment No. 6 - *Revised Bid Form, Pages BF-1 to BF-3*
Attachment No. 7 - *Existing Gangway Drawings from ITB_C-1642 (See Addendum Question #3)*

Acknowledgment of the following addenda is hereby made:

Addendum #1, Dated: _____ Initials _____

Company _____

NOTE: THIS ADDENDUM SHALL BE ACKNOWLEDGED IN YOUR BID SUBMISSION, FAILURE TO ACKNOWLEDGE ADDENDUM MAY BE GROUNDS FOR REJECTION OF BID.

PLEASE VISIT HTTP://WWW.JAXPORT.COM/PROCUREMENT/ACTIVE-SOLICITATIONS PRIOR TO THE BID OPENING TO DETERMINE IF ANY ADDENDA HAVE BEEN RELEASED ON THIS CONTRACT.

ATTACHMENT NO. 1

PRE-BID MEETING MINUTES
JPA Contract: ITB C-2017C
CRUISE TERMINAL NEW GANGWAY

Date: **Tuesday, January 21, 2025**
Time: **10:00 AM**

Good morning! It is now **10:00 AM** on **Tuesday, January 21, 2025** and the Pre-Bid Meeting for JPA Contract No. **ITB_C-2017C CRUISE TERMINAL NEW GANGWAY** will now begin.

This meeting is being held via **ZOOM Meeting** teleconference which allows interested persons to view and participate remotely.

This meeting is subject to Florida Sunshine Laws and therefore, is being recorded.

We will begin the meeting by introducing JAXPORT Staff Members:

Outside companies asked to please type their full name and the company they were representing in the "Chat Box" as I introduced the JAXPORT Staff in attendance.

JAXPORT STAFF IN ATTENDANCE:

- ☑ Name: Jerrie Gunder Title: Sr. Contract Specialist
- ☑ Name: Retta Rogers Title: Director, Procurement Services
- ☑ Name: Sandra Platt Title: Manager, Procurement Services
- ☑ Name: Terri Lemon-Scott Title: Contract Specialist
- ☑ Name: Jose Vazquez Title: Director, Project Management

IDENTIFY MEMBERS OF PUBLIC ATTENDEES
Please clearly state your name and the company you are representing. *(Allow time for each person to speak, add their name to the Attendance list, and ask again at the conclusion of the meeting for verification).*

COMPANIES' ATTENDANCE RECORD OF PRE-BID MEETING *(listed in alphabetical order by company's name)*	
REPRESENTING AGENT	**COMPANY'S NAME**
1. ***Rafael Caldera***	***Arkest, LLC***
2. ***Ria Skinner***	***Callan Marine***
3. ***Mike Deen***	***J. Lane Construction***
4. ***Patrick Rogers***	***J. Lane Construction***
5. ***Ali Hakimi***	***Pars Constructions***

Instructions for all participants/members of the public –

To avoid any microphones transmitting sounds that causes feedback, echoes or sounds what will otherwise cause a disruption to this meeting, participants (regardless of how they are accessing this meeting) are asked to keep their microphones on "mute" at all times when *not* speaking. PLEASE TAKE A MOMENT AND "MUTE" YOUR MICs FOR THIS MEETING.

i. Any individual who wishes to speak, should "*unmute*" their microphones and wait to be recognized by the host before speaking.

ii. When called upon, please announce your name and the company you are representing.

iii. Each person speaking should do so clearly and slowly to ensure they are heard and understood for recording purposes and by other participants and attendees.

KEY DATES:

- **Bids Due:** **TUESDAY, FEBRUARY 11, 2025 at 2:00 PM (ET).** Invitation to Bids and all required supplemental material listed in the bid documents, must be submitted in **PDF Format Only** through E-Builder. **The PDF file name should read "C-2017C". JAXPORT no longer is accept any bid packages submitted by Email, Fax, Mail or Hand-Deliveries.** Bids and supplemental documents submitted other than through Trimble Unity Construct (E-Builder) will not be accepted or considered. **Please visit JAXPORT's website at www.jaxport.com for more information and updates**.

- **Site Visit:** A **Site Visit** will be held at **2:00 PM (TODAY), Tuesday, January 21, 2025.** Attendees of the SITE VISIT will meet at **JAXPORT Access Control Center (ACC), located at 9620 Dave Rawls Blvd., (Parking Lot), Jacksonville, FL 32226**. Due to the secure area of the project, attendees will be transported by JAXPORT Bus to the Cruise Terminal (DPCT) project location. **ALL ATTENDEES MUST WEAR A HARD HAT, SAFETY BOOTS AND VEST**.

  To have a projective of attendance, immediately following this meeting please email me at **Jerrie.Gunder@jaxport.com or call at (904) 357-3455** to have your name added to the attendance list. I will need Verification of a valid driver's license or TWIC badge acknowledgement when adding your name to the roster.

  NO QUESTIONS WILL BE ANSWERED DURING THE SITE VISIT. ATTENDANCE BY A REPRESENTATIVE OF EACH PROSPECTIVE BIDDER IS ENCOURAGED.

- **Questions:** The deadline to submit questions my e-mail at jerrie.gunder@jaxport.com or through eBuilder by **Friday, January 24, 2025 by 4:00 PM (ET).** Any questions regarding this project must be submitted in writing with the **SUBJECT NOTED AS: ITB_C-2017C**. Please do not send questions to anyone else. Any questions received will be address via an addendum to all potential bidders registered in E-builder and posted on the JAXPORT's website.

ARE THERE ANY QUESTION REGARDING "HOW" TO SUBMIT YOUR BIDS?

SEB Requirements: There are no SEB Goals on this project, however, participation is encouraged. Questions regarding SEB information or to obtain a list of possible Subcontractors and Suppliers, please contact Michael McCoy at (904) 357-3003.

Scope of Services: Jose Vazquez will give an overview of the Scope of Work for this project.

INVITATION TO BID DOCUMENTS

The Invitation to Bid document can be reviewed from our website: https://www.jaxport.com/procurement/active-solicitations/

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  To have a projective of attendance, immediately following this meeting please email me at **Jerrie.Gunder@jaxport.com or call at (904) 357-3455** to have your name added to the attendance list. I will need Verification of a valid driver's license or TWIC badge acknowledgement when adding your name to the roster.

- **Bidder Requirements:** Page BCF-1 *(list of documents required to be submitted with bid. It is mandatory that all required documents be uploaded in e-Builder when submitting your bids.)*

- **Question & Answers: 4:00 PM (ET), FRIDAY, JANUARY 24, 2025** and submitted only to my email at Jerrie.Gunder@jaxport.com or in Trimble Unity Construct (e-Builder). Any questions received will be address via an addendum.

- **Acknowledgment of Addenda** *(It is mandatory that the bidder acknowledge all addenda, the system will not allow you to submit your proposal until the addenda is acknowledged).*

- **Bids Due: Bids must be uploaded in E-Builder prior to 2:00 PM (ET), TUESDAY, FEBRUARY 11, 2025. The submit button will deactivate exactly at 2:00 PM and you will not be permitted to submit your bid regardless of where you are in the process. *Please Plan accordingly*.**

- If you should have any questions regarding the solicitation package, please submit them **by e-mail to my attention at: Jerrie.Gunder@jaxport.com or through Trimble Unity Construct (e-Builder).**

Note: These minutes shall become a part of the solicitation documents and contract agreement. Any corrections, additions or errors will be brought to the attention of the Project Manager within 5 days after receipt of the minutes. It shall be the responsibility of the contractor submitting a proposal for this contract to ensure that all Subcontractors, Suppliers, and services that are incorporated into his proposal have received benefit of the minutes and any addenda that may be issued.

Please clearly state your name and the company you are representing. *(Allow time for each person to speak, add their name to the Attendance list, and ask again at the conclusion of the meeting for verification).*

Thank you for your participation and we look forward to your bid submission.

Meeting adjourned at **10:12 AM**

Prepared By **Jerrie Gunder, Senior Contract Specialist**

ATTACHMENT NO. 2

JAXPORT CONTRACT NO.: ITB_C-2017C

CRUISE TERMINAL NEW GANGWAY

Optional Site Visit Attendance List

Tuesday, January 21, 2025 at 2:00 PM

Attended	Indiv. Name	FL ID / TWIC	Company
☑	Michael Jones	TWIC	Dajis Construction
☑	Patrick Rogers	TWIC	J Lane Construction
☑	Chase Anderson	"ID presented on site"	ACON Construction
☑	Michael Deen	"ID presented on site"	J Lane Construction
☐			
☐			
☐			
☐			
☐			
☐			
JAXPORT STAFF			
☑	Keith Sanders	TWIC	JAXPORT (BUS)
☑	Jose Vazquez	TWIC	JAXPORT
☐			
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Post Office Box 3005
2831 Talleyrand Avenue
Jacksonville, Florida 32206-0005

ADDENDUM NO. 01

INVITATION TO BID

CRUISE TERMINAL NEW GANGWAY
JPA CONTRACT NO.: C-2017C

RESPONSE TO QUESTION(S)

1. With the very restrictive schedule this project requires (150 Days), does Jaxport have plans to start the permitting process before the project is awarded so that process does not hold up the project...the permitting alone could take 120 days.?

   ANSWER: The Contractor is responsible to file/obtain applicable permit(s).

2. Is there an alternate to Steel for this gangway? Could it be made of aluminum?

   ANSWER: No.

3. Would you have a photo or drawing of a current gangway?

   ANSWER: See Addendum Attachment No. 6 for the drawings of existing gangway.

ATTACHMENT NO. 4

"SUMMARY OF CHANGES"

C-2017C Cruise Terminal New Gangway

Addendum # 1 Summary of drawing revisions: ***(See Attachment No. 5)***

- Structural, Architectural, and Electrical updates for the 1' elevation adjustment at the connection to the ship. The structure height was reduced by 1' (structure section that connects to the ship). Main sheets affected: all sheets showing elevations including: S205, S301, S302, S503, A201

- Sheet S302, Section 3: Include hinged kickplate and dimensions (brow/gangway connection side)

- Sheet S104, Plan View/Detail 1: Added callouts for location of swing door(s) referenced in Detail 1/S503

Addendum # 1 summary of Bid Form revisions: ***(See Attachment No. 6)***

- Item # 3.04: added text "Alucobond Panels and" to item description

ATTACHMENT NO. 5

JAXPORT
JACKSONVILLE PORT AUTHORITY

"REVISED DRAWINGS"

FOR

CRUISE TERMINAL
NEW GANGWAY

Project No.: D2025-01

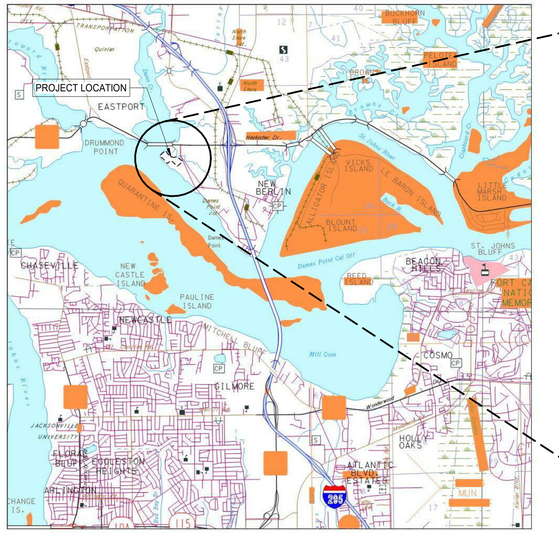
Contract No.: C-2017C

DAMES POINT MARINE TERMINAL

JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL
CRUISE TERMINAL GANGWAY

JPA CONTRACT NO. 5137
RS&H PROJECT NO. 10014153000



VICINITY MAP
JACKSONVILLE, FLORIDA

LOCATION MAP
JACKSONVILLE, FLORIDA

N

DRAWING SHEET INDEX	
SHEET NUMBER	SHEET NAME
G001	KEY SHEET AND SHEET INDEX
G002	GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS
G003	SIGNATURE SHEET
S012	STRUCTURAL GENERAL NOTES
S013	STRUCTURAL ISOMETRICS
S101	FOUNDATION PLAN
S104	RAMP FRAMING PLAN - UPPER
S205	FRAMING ELEVATIONS
S301	STRUCTURAL SECTIONS - I
S302	STRUCTURAL SECTIONS - II
S401	ENLARGED LANDING PLANS
S501	FOUNDATION SECTIONS & DETAILS
S502	FRAMING SECTIONS & DETAILS - I
S503	FRAMING SECTIONS & DETAILS - II
A121	ROOF PLAN
A201	ELEVATIONS
E001	ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
E002	ELECTRICAL SPECIFICATIONS
E003	ELECTRICAL SPECIFICATIONS
ES101	ELECTRICAL SITE PLAN
E601	ELECTRICAL PANEL SCHEDULES
E701	ELECTRICAL ONE LINE DIAGRAM
E901	ELECTRICAL ISOMETRICS

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 01/24/2025
REVIEWED BY: PFM
DRAWN BY: JAM
DESIGNED BY: LAP
PROJECT NUMBER:
10014153000

SEAL:
PATRICK MULL
LICENSE
No 73265
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE:
KEY SHEET AND SHEET INDEX

SHEET ID:
G001

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION

1/24/2025 2:04:13 PM Autodesk Docs://10014153019_DPMT CT GANGWAY MOD/10014153019_JAXPORT Cruise Gangway_S_R22.rvt

ARCHITECTURAL ABBREVIATIONS

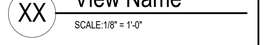
&	AND
@	AT
A.B.	ANCHOR BOLT
A.F.S.	ABOVE FLOOR SLAB
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANOD.	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE OR APPROXIMATELY
ARCH	ARCHITECTURE, ARCHITECTURAL
AVG	AVERAGE
B.H.M.I.	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION, INC.
B.O.	BOTTOM OF
BIM	BUILDING INFORMATION MODELING
BLDG.	BUILDING
BM.	BEAM
C.J.	CONTROL JOINT
CFMF	COLD FORMED METAL FRAMING
CL	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN /COLUMNS
COLS.	COLUMNS
CONC.	CONCRETE
CONT.	CONTINUOUS
D.S.	DOWNSPOUT
DIA.	DIAMETER
DR.	DOOR
DTL. OR DET.	DETAIL
DWG.	DRAWING
E.F.S.	EXTERIOR FACE OF SHEATHING
E.J.	EXPANSION JOINT
E.O.S.	EDGE OF SLAB
E.P.	ELECTRICAL PANEL
E.T.D.	ESTIMATED TRAVEL DISTANCE
EA.	EACH
ELEC.	ELECTRIC, ELECTRICAL
ELEV.	ELEVATION
ENG.	ENGINEER, ENGINEERING
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXP.	EXPANSION, EXPOSED
EXT.	EXTERIOR
F.F.	FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
F.O.	FACE OF
F.O.B.	FACE OF BRICK
F.O.P.	FACE OF POST
F.V.	FIELD VERIFY
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FIN.	FINISH, FINISHED
FLR.	FLOOR
FRP	FIBER REINFORCED PANEL
FT.	FEET
FTG.	FOOTING
G.P.	GLOSSY PAINT
GA.	GAUGE
GALV.	GALVANIZED
GID	GATE INFORMATION DISPLAY
GL.	GLASS
H.P.	HIGH POINT
HB	HOSE BIB
HGT. OR HT.	HEIGHT
HKS	HOOKS
HM	HOLLOW METAL
HORIZ.	HORIZONTAL
HVAC	HEATING VENTILATION & AIR CONDITIONING
I.D.	INSIDE DIAMETER
i.e.	THAT IS, SUCH AS
I.F.S.	INTERIOR FACE OF STUD
IN.	INCH, INCHES
INSUL.	INSULATION
INT.	INTERIOR
JST.	JOIST
JT.	JOINT
LB.	POUND
LDG.	LANDING
LONG.	LONGITUDINAL
LT.	LIGHT
LTG.	LIGHTING
MATL.	MATERIAL
MAX.	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, & PLUMBING
MFR.	MANUFACTURER
MGR.	MANAGER
MIN.	MINIMUM
MOD	MODIFIED
MSC.	MISCELLANEOUS
MTL	METAL
MUFID	MULTI-USER FLIGHT INFORMATION DISPLAY
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPG	OPENING
OPP.	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
OVHD	OVERHEAD
PDU	POWER DISTRIBUTION UNIT
PLYWD.	PLYWOOD
PNL.	PANEL
PR.	PAIR
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, PRESSURE TREATED
R	RADIUS
R.O.	ROUGH OPENING
REF.	REINFORCING, REINFORCEMENT
REQD.	REQUIRED
REV.	REVISED, REVISION
S.F.	SQUARE FEET
S.G.P.	SEMI-GLOSS PAINT
SC	SEALED CONCRETE
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SHTS.	SHEETS
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
SQ.	SQUARE
SQ. IN.	SQUARE INCHES
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT	STRUCTURAL, STRUCTURE
SUSP.	SUSPENDED
T&G	TONGUE & GROOVE
T.O. STL.	TOP OF STEEL
T.O.B.	TOP OF BRICK, TOP OF BEAM
T.O.S.	TOP OF STEEL, TOP OF SLAB
T.O.SH.	TOP OF SHEATHING
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
U.O.N.	UNLESS OTHERWISE NOTED
VDC	VIRTUAL DESIGN & CONSTRUCTION
VERT.	VERTICAL
W/	WITH
WCO	WALL CLEANOUT
WMP	WIRE MESH PARTITION
WWF	WELDED WIRE FABRIC
YD.	YARD
Ø	DIAMETER

GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET / INCHES UNLESS NOTED OTHERWISE.
2. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS - REFER TO SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
3. AREAS AND PERIMETERS ARE APPROXIMATE AND FOR REFERENCE ONLY. VERIFY QUANTITIES AND DIMENSIONS IN FIELD.
4. NO DEVIATIONS FROM THESE CONTRACT DOCUMENTS MUST BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
5. DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.
6. ALL DIMENSIONS ORIGINATE FROM EXISTING FACE OF WALLS UNLESS NOTED OTHERWISE.
7. DETAILS SHOWN ON DRAWINGS ARE TYPICAL FOR ALL SIMILAR CONDITIONS.
8. DRAWING NOTES AND SPECIFICATIONS ARE INSTRUCTIONS TO THE CONTRACTOR AND APPLY TO ALL THE WORK UNLESS MORE SPECIFIC INFORMATION IS SHOWN ELSEWHERE ON THE DRAWINGS OR WRITTEN IN THE SPECIFICATIONS - IN THE EVENT OF CONFLICTING INSTRUCTIONS, THE ARCHITECT MUST DETERMINE WHAT CONTROLS THE CONTRACT DOCUMENTS ARE COMPLEMENTARY WHAT IS REQUIRED BY ONE MUST BE REQUIRED BY ALL.
9. STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION - THE CONTRACTOR MUST SUPERVISE CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE, AND APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED.
10. CONTRACTOR MUST BE RESPONSIBLE FOR SCHEDULING AND COORDINATING THE WORK OF THE SUB-CONTRACTORS - THE CONTRACTOR MUST BE RESPONSIBLE TO COORDINATE WITH THE BUILDING OWNER, TENANT OR HIS REPRESENTATIVES THE DELIVERY AND INSTALLATION OF ITEMS BEING PROVIDED AND INSTALLED BY OTHERS.
11. PLUMBING AND ELECTRICAL WORK RELATED TO DEMOLITION AND NEW INSTALLATION OF COMPONENTS MUST COMPLY WITH ALL APPLICABLE CODES.
12. ALL MATERIALS, FABRICATION AND INSTALLATION MUST COMPLY WITH THE APPLICABLE REQUIREMENTS AND SPECIFICATIONS FOR EACH DIVISION OF WORK.
13. CONSTRUCTION MUST COMPLY WITH APPLICABLE CODES AND ORDINANCES, LAWS AND SAFETY ORDERS AS DIRECTED BY LOCAL JURISDICTION.
14. CONTRACTOR MUST BE RESPONSIBLE FOR THE TIMELY ORDERING OF MATERIALS INCLUDED IN THESE CONTRACT DOCUMENTS - SOME ITEMS IN THESE DOCUMENTS MAY REQUIRE LONG LEAD TIMES OR SPECIAL COORDINATION. SUBSTITUTIONS WILL NOT BE ALLOWED FOR MATERIAL NOT ORDERED IN A TIMELY FASHION.
15. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.
16. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION - ALL DISCREPANCIES MUST BE NOTED AND SENT TO THE ARCHITECT WITH ADEQUATE TIME TO REVIEW PRIOR TO STARTING THAT PORTION OF THE WORK IN ORDER TO AVOID PROJECT DELAYS.
17. CONTRACTOR MUST CLEAN, PATCH AND REPAIR ALL SURFACES DAMAGED BY DEMOLITION, ALTERATION OR INSTALLATION OF THE WORK.
18. ALL REQUESTS FROM INFORMATION PROMPTED BY THE BUILDING OFFICIALS MUST INCLUDE A COPY OF THE BUILDING OFFICIALS' COMMENTS AND THE BUILDING INSPECTORS FIELD REPORT TO ENSURE AN ACCURATE AND TIMELY RESPONSE.
19. CONTRACTOR AND SUBCONTRACTOR MUST ALL BE LICENSED TO PERFORM THEIR REQUESTED DUTIES AS REQUIRED IN ACCORDANCE WITH LOCAL STANDARDS.
20. CONTRACTOR MUST COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
21. ALL EXISTING EQUIPMENT AND FINISHES THAT ARE SCHEDULED OR NOTED TO REMAIN WILL BE PROTECTED BY THE CONTRACTOR. PHOTOGRAPHS OF EXISTING CONDITIONS MUST BE PROVIDED BY THE CONTRACTOR TO DOCUMENT PRE-EXISTING DAMAGE & FINISH CONDITIONS.
22. THE CONTRACTOR MUST COORDINATE ALL DEMO AND NEW WORK ACTIVITIES WITH THE AUTHORITY PRIOR TO PROCEEDING.
23. THE CONTRACTOR IS TO PROTECT EXISTING FINISHES, AND MAKE REPAIRS TO THE EXISTING FINISHES, AS PART OF THE NEW WORK ASSOCIATED WITH THIS PROJECT.
24. ALL NON-GALVANIZED EXTERIOR EXPOSED STEEL TO RECEIVE HIGH PERFORMANCE COATING.
25. DO NOT OBSTRUCT ACCESS TO EXISTING EXITS, OR REDUCE THE WIDTH OF PUBLIC CORRIDORS.
26. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE UNLESS OTHERWISE NOTED.

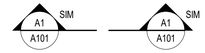
PLAN SYMBOLS

VIEW TITLE

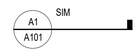


LEVEL HEAD

BUILDING SECTION



DETAIL SECTION

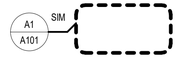


ELEVATION - EXTERIOR

ELEVATION - INTERIOR

WALL SECTION

CALLOUT HEAD & REGION



NORTH ARROW

VIEW REFERENCE

DOOR TAG

REVISION TAG

KEYNOTE

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	SDP
DRAWN BY:	ALH
DESIGNED BY:	CMV

PROJECT NUMBER:
10014153000

SEAL:

SHEET TITLE:
GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

SHEET ID:
G002

PROJECT STATUS:
100% SUBMITTAL
FOR CONSTRUCTION

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RS&H, INC.
10748 DEERWOOD PARK BLVD. SOUTH
JACKSONVILLE, FLORIDA 32256
PATRICK MULL, P.E. NO. 73265

SHEET NUMBER	SHEET NAME
G001	KEY SHEET AND SHEET INDEX
G002	GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS
G003	SIGNATURE SHEET
S012	STRUCTURAL GENERAL NOTES
S013	STRUCTURAL ISOMETRICS
S101	FOUNDATION PLAN
S104	RAMP FRAMING PLAN - UPPER
S205	FRAMING ELEVATIONS
S301	STRUCTURAL SECTIONS - I
S302	STRUCTURAL SECTIONS - II
S401	ENLARGED LANDING PLANS
S501	FOUNDATION SECTIONS & DETAILS
S502	FRAMING SECTIONS & DETAILS - I
S503	FRAMING SECTIONS & DETAILS - II

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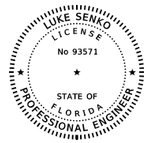
1715 N. WESTSHORE BLVD., SUITE 600
TAMPA, FLORIDA 33607
CAROLINA M. VALLADARES, R.A. NO. 102352

SHEET NUMBER	SHEET NAME
G003	SIGNATURE SHEET
A121	ROOF PLAN
A201	ELEVATIONS



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RS&H, INC.
1715 N. WESTSHORE BLVD., SUITE 600
TAMPA, FLORIDA 33607
LUKE SENKO, P.E. NO. 93571

SHEET NUMBER	SHEET NAME
G003	SIGNATURE SHEET
E001	ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
E002	ELECTRICAL SPECIFICATIONS
E003	ELECTRICAL SPECIFICATIONS
ES101	ELECTRICAL SITE PLAN
E601	ELECTRICAL PANEL SCHEDULES
E701	ELECTRICAL ONE LINE DIAGRAM
E901	ELECTRICAL ISOMETRICS

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904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

JAXPORT

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

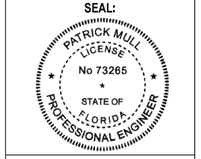
PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 01/24/2025
REVIEWED BY: VV
DRAWN BY: AC
DESIGNED BY: AC
PROJECT NUMBER: 10014153000

SEAL:



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SIGNATURE SHEET

SHEET ID:
G003

PROJECT STATUS:
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11/10/2022 10:57:35 AM
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SYMBOLS & ABBREVIATIONS

AB	ANCHOR BOLT
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
B/	BOTTOM OF
BC	BOTTOM CHORD
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
BTW	BETWEEN
CCJ	CONTRACTION CONTROL JOINT
CFMF	COLD FORMED METAL FRAMING
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
D	DEEP
DET	DETAIL
DIA	DIAMETER
E	ELECTRICAL
EA	EACH
ECC	ECCENTRIC
EJ	EXPANSION JOINT
EL	ELEVATION
EMBED	EMBEDMENT
EOD	EDGE OF DECK
EP	EMBEDDED PLATE
EPS	EXPANSIVE POLYSTYRENE GEOFOAM
EQ	EQUAL
EQUIP	EQUIPMENT
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FTG	FOOTING
FV	FIELD VERIFY
GALV	GALVANIZED
GR	GRADE
HDG	HOT DIPPED GALVANIZED
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
IAW	IN ACCORDANCE WITH
IF	INSIDE FACE
INT	INTERIOR
JT	JOINT
KSI	KIPS PER SQUARE INCH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LSV	LONG SIDE VERTICAL
M	MECHANICAL
MAX	MAXIMUM
MC	MOMENT CONNECTION
MFR	MANUFACTURER
MIN	MINIMUM
MSL	MEAN SEA LEVEL
OAE	OR APPROVED EQUAL
OC	ON CENTER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REINF	REINFORCEMENT
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
STD	STANDARD
STL	STEEL
T&B	TOP AND BOTTOM
T/	TOP OF
TH	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDE
W/	WITH
WF	WIDE FLANGE
WP	WORK POINT

STRUCTURAL STEEL:

1. STRUCTURAL STEEL MUST BE DESIGNED PER AISC 360-16.

WIDE FLANGE SHAPES	ASTM A992
HSS RECTANGULAR	ASTM A500, GR C, F_y = 50 KSI
HSS ROUND	ASTM A500, GR C, F_y = 46 KSI
STEEL PIPES	ASTM A53, GRADE B, TYPE S
CHANNELS	ASTM A992, GRADE 50
PLATES	ASTM A572, GRADE 50
ANGLES	ASTM A572, GRADE 50
BOLTS	ASTM A325 (3/4"Ø UON)
ANCHOR RODS	ASTM F1554 (GRADE 36 UON)
ALL OTHER STEEL	ASTM A36

2. WELDING MUST UTILIZE E70XX ELECTRODES CONFORMING TO ANSI/AWS D1.1.
3. MINIMUM SIZE OF ALL FILLET WELDS MUST CONFORM TO TABLE J2.4 OF AISC SPECIFICATIONS EVEN IF SHOWN OTHERWISE ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. FABRICATOR MUST SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF FABRICATION. FABRICATION MUST CONFORM TO AISC SPECIFICATIONS.
5. ALL STRUCTURAL STEEL MUST BE FIELD PAINTED PER THE SPECIFICATIONS.

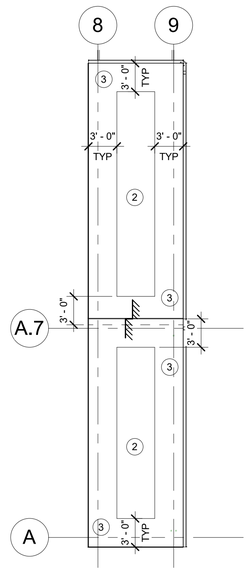
BENCHMARKS (EXISTING MONUMENTS):

ID	NUMBER	NORTHING	EASTING	DESCRIPTION
GTBM3	BM1	N=2209048.31	E=472651.84	DRILL HOLE X CUT IN CONCRETE BULKHEAD
GA8	BM2	N=2208911.35	E=472834.77	NAIL IN PAVEMENT

REFER TO S101 FOR CONTROL ELEVATION

DEFERRED SUBMITTALS:

1. DEFERRED SUBMITTALS CONSTITUTE ENGINEERING DOCUMENTS DELEGATED IN WRITING BY THE ENGINEER OF RECORD TO A DELEGATED ENGINEER IAW FBC 107.3.4.
2. DEFERRED SUBMITTALS:
   A. ALUMINUM GANGWAY W/ FABRIC AWNING
   B. ALUMINUM COMPOSITE ROOF CANOPIES
   C. GUARDRAIL INFILL PANELS
   D. HOIST AND MONORAIL SYSTEM
3. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTALS MUST BE SUBMITTED TO THE ENGINEER OF RECORD WHO MUST REVIEW AND FORWARD THEM TO THE OWNER WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING
   A. SUBMITTAL DOCUMENTS MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS.
   B. SUBMITTAL DOCUMENTS MUST INCLUDE LAYOUTS, SECTIONS, DETAILS, CALCULATIONS, PRODUCT DATA, CERTIFICATES, AND OTHER RELATED DATA. DOCUMENTS MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA.
   C. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTALS FOUND NOT TO BE IN CONFORMANCE WITH THE DESIGN DOCUMENTS WILL BE RETURNED FOR CORRECTION OR REJECTED.
4. THE DEFERRED SUBMITTAL ITEMS MUST NOT BE FABRICATED OR INTSALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OWNER.



N

12 / S012 CANOPY ROOF C&C PLAN

SCALE: 1/8" = 1'-0"

ULTIMATE COMPONENTS & CLADDING PRESSURES FOR CANOPY ROOFS (PSF)			
ZONE	EFFECTIVE WIND AREA, "A" (SF)		
	A ≤ 9	9 < A ≤ 36	A > 36
2	69.9 / -66.0	69.9 / -66.0	46.6/ -42.7
3	93.2 / -128	69.9 / -66.0	46.6/ -42.7

NOTES:

1. COMPONENTS & CLADDING PRESSURES ARE BASED ON AN OPEN CLASSIFICATION, W/ AN INTERNAL PRESSURE COEFFICIENT OF ±0.0
2. WIND PRESSURES ARE BASED ON A 'CLEAR WIND FLOW' AS DEFINED BY ASCE 7-22.
3. POSITIVE AND NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES, RESPECTIVELY.
4. FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED. OTHERWISE USE THE LOWER EFFECTIVE AREA.
5. CALCULATE NET UPLIFT PRESSURES USING ASCE 7 LOAD COMBINATIONS: 0.6D+0.6W (ASD) OR 0.9D+W (LRFD)

FOUNDATIONS:

1. FOUNDATIONS ON THE RELIEVING PLATFORM ARE DESIGNED FOR A MAXIMUM ALLOWABLE BEARING PRESSURE = 1,500 PSF, SEE S101.

CONCRETE:

1. ALL CONCRETE MUST BE DESIGNED PER ACI 318-19.
2. ALL CONCRETE MIXES MUST BE DESIGNED BY AN APPROVED LABORATORY, AND THE DESIGN MIX MUST SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW, AND OBTAIN APPROVAL PRIOR TO USE.

LOCATION	STRENGTH @ 28 DAYS
NORMAL WEIGHT CONCRETE	
ALL CONCRETE	4500 PSI

3. NO PIPES OR DUCTS MUST BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES. MOULDS, FLOOR HINGES, ETC. TO BE CAST INTO THE CONCRETE.

REINFORCING STEEL:

1. REINFORCING STEEL MUST BE DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60. ALL MESH REINFORCING MUST CONFORM TO ASTM SPECIFICATION A1064.
2. SPLICES IN REINFORCING, WHERE PERMITTED, MUST BE CLASS B TENSION LAP SPLICES, UNO.
3. MINIMUM LAP OF MESH REINFORCING MUST BE ONE FULL MESH PLUS 2" OR 6", WHICHEVER IS GREATER.
4. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING MUST BE AS FOLLOWS:

FOOTINGS	3"
SLABS ON GRADE	TOP THIRD

5. ALL REINFORCING MUST BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 531 DURING THE PLACING OF CONCRETE.
6. PROVIDE CORNER REINFORCING TO MATCH HORIZONTAL REINFORCING AT ALL CORNERS OF CONTINUOUS FOOTINGS AND TIE BEAMS.
7. ALL HOOKS IN REINFORCING BARS MUST BE AN ACI STANDARD HOOK, UNLESS NOTED OTHERWISE.
8. REINFORCING BARS CONFORMING TO ASTM A706 MUST BE USED FOR BARS REQUIRING WELDING.

GANGWAY NOTES:

1. GANGWAY MUST BE DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE.
2. GANGWAY MUST BE DESIGNED FOR A UNIFORM LIVE LOAD OF 100 PSF.
3. GANGWAY MUST BE PROVIDED WITH LIFTING LUGS.
4. GANGWAY MUST BE FABRICATED FROM 6061-T6 ALUMINUM MATERIAL.
5. BREAK ALL EDGES ABOVE DECK LEVEL.
6. HANDRAIL, GUARDS AND INFILL MUST COMPLY WITH THE 2023 FLORIDA BUILDING CODE – ACCESSIBILITY.
7. PIPE RAIL MUST HAVE A BRUSH FINISH AFTER FABRICATION.
8. ATTACHED CANOPY SHADE FABRIC MATERIAL MUST MATCH EXISTING AND MUST HAVE A 10 YEAR WARRANTY AGAINST FADING, ROT, UV DETERIORATION, LOSS OF STRENGTH, COLOR CHANGE OR FAULTY WORMANSHIP.
9. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
10. BASIS OF DESIGN: BELLINGHAM MARINE INDUSTRIES, INC.

GUARDRAIL INFILL NOTES:

1. ALL INFILL PANELS MUST BE 6 MM ALUCOBOND PE PANELS EXCEPT WHERE OTHERWISE NOTED ON THE PLANS. PANELS MARKED WITH AN [L] MUST BE 6 MM LEXAN XL102UV SHEETS.

   COLORS MUST BE SELECTED BY JAXPORT TO MATCH EXISTING. SUBMIT SAMPLES.
2. SHEET PRODUCTS MUST BE SAWN AND CUT ACCURATELY USING STANDARD WORKSHOP EQUIPMENT, HOWEVER, MANUFACTURER'S WRITTEN GUIDELINES MUST BE FOLLOWED.
3. ALL PANEL BUTT JOINTS MUST BE VERTICAL. NO HORIZONTAL OR SLANTED JOINTS ARE PERMITTED.
4. PANELS MUST BE FASTENED TO ALL HORIZONTAL RAILS WITH MIN #8 SS SELF TAPPING, SELF DRILLING SCREWS WITH BONDED WASHERS AT 12" O.C. HOLES IN THE PANELS MUST BE 2 TIMES THE SCREW SIZE AND MUST BE DRILLED WITH STANDARD HIGH SPEED DRILLS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. HEAT GENERATION MUST BE KEPT TO AN ABSOLUTE MINIMUM.
5. PANELS MUST BE INSTALLED BY A SUBCONTRACTOR WHO HAS SUCCESSFULLY COMPLETED AT LEAST 3 PROJECTS OF SIMILAR SIZE AND SCOPE TO THIS PROJECT.
6. ALL EXPOSED PANEL EDGES MUST BE BEVELED OR ROUNDED TO ELIMINATE SHARP EDGES.
7. SUBMIT SHOP DRAWINGS SHOWING PROJECT LAYOUT AND ELEVATIONS, FASTENING AND ANCHORING METHODS, DETAIL AND LOCATION OF JOINTS, SEALANTS AND GASKETS, INCLUDING JOINTS NECESSARY TO ACCOMMODATE THERMAL MOVEMENT.
   A. BASIS OF DESIGN:

      ALUCOBOND: PIEDMONT PLASTICS
      2175 MASON AVE, DAYTONA BEACH, FL 32117
      (800) 874-7512
      CONTACT: DALE SHELTON, TERRITORY MANAGER
      (904) 472-8015

      LEXAN: SABIC
      PITTSFIELD, MA
      CONTACT: MICHAEL CORUZZI
      (856) 904-3581
      MICHAEL.CORUZZI@SABIC.COM

DESIGN CRITERIA:

DESIGN PER THE 2023 *FLORIDA BUILDING CODE, 8TH EDITION.*

1. DEAD LOADS
   SELF-WEIGHT OF CONSTRUCTION MATERIALS
2. LIVE LOADS (PER ASCE 7-22):
   WALKWAYS AND RAMPS _____ 100 PSF
   ROOF (CANOPIES)_____ 20 PSF
3. WIND LOADS (PER ASCE 7-22):
   ULTIMATE DESIGN WIND SPEED, V_{ult}_____ 126 MPH
   NOMINAL DESIGN WIND SPEED, V_{asd}_____ 98 MPH
   RISK CATEGORY _____ II
   WIND EXPOSURE CATEGORY _____ D
   INTERNAL PRESSURE COEFFICIENT _____ ± 0.0
   COMPONENTS AND CLADDING WIND PRESSURES_____ SEE DETAILS 1/S001
4. RAIN LOADS:
   100 YR MRI RAIN INTENSITY, 60-MIN DURATION _____ i = 4.50 IN/HR
5. FLOOD LOADS:
   PROJECT LOCATION IS NOT IN A FLOOD ZONE.

GENERAL:

1. THE STRUCTURAL NOTES MUST GOVERN IN MATTERS COVERED ON THE STRUCTURAL DRAWINGS. SEE PROJECT SPECIFICATION AND OTHER DRAWINGS FOR FURTHER REQUIREMENTS. TOTAL PROJECT DEFINITION WILL BE PROVIDED BY COMBINING PROJECT SPECIFICATIONS AND STRUCTURAL DRAWING PACKAGES.
2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT REPRESENT THE METHOD OF CONSTRUCTION.
3. THE CONTRACTOR MUST TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS, ETC.
4. FOR TYPICAL DETAILS SHOWN BUT NOT BE REFERRED TO EXCEPT HEREIN, CONFORM TO ALL OF THE REQUIREMENTS OF THESE DETAILS TO THE SAME EXTENT AS IF REFERRED TO BY DETAIL NUMBER.
5. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL THE ENGINEER MUST BE NOTIFIED.
6. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS OF EXISTING SITE THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.

EXISTING CONDITIONS:

1. THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM EXISTING DRAWINGS BY W.A. GRISWOLD, JR, PE, DATED 8/29/03. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. CONTRACTOR MUST NOTIFY ARCHITECT / ENGINEER OF ALL EXCEPTIONS TO ASSUMED CONDITIONS.
2. ALL REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING CONSTRUCTION MUST BE PERFORMED WITH GREAT CARE IN ORDER TO NOT DAMAGE THE EXISTING AND JEOPARDIZE THE INTEGRITY OF THE EXISTING BUILDING TO REMAIN.

METAL FLOOR DECK NOTES:

1. ALL STEEL FLOOR DECK MUST BE IN CONFORMANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE (SDI).
2. ALL STEEL FLOOR DECK MUST BE GALVANIZED G-120.
3. ALL FLOOR DECK MUST BE COMPOSITE DECK EQUAL TO NEW MILLENNIUM TYPE 1.5CD, 18 Ga THICKNESS, WITH MINIMUM YEILD STRENGTH OF 40 ksi.
   A. FLOOR DECK MINIMUM PROPERTIES: Ip = 0.279 in^4/ft, In = 0.281 in^4/ft, Sp = 0.304 in^3/ft, Sn = 0.315 in^3/ft.
4. FLOOR SLAB MUST HAVE AN OVERALL NOMINAL THICKNESS OF 3 1/2" FROM TOP OF CONCRETE TO BOTTOM OF METAL DECK, UNO. REINFORCE W/ 6X6-W1.4 X W1.4.
5. REINFORCING FOR SLAB MUST BE 3/4" BELOW TOP OF SLAB.
6. ALL FLOOR DECK MUST BE FASTENED TO STEEL SUPPORTS AT ENDS OF SHEET AND INTERMEDIATE SUPPORTS. MIN BEARING LENGTH = 1 1/2." SUPPORT FASTENERS MUST BE 5/8" DIA PUDDLE WELD, WITH SPACING OF MAX 12" OC.
7. DECKING MUST HAVE NESTED OR INTERLOCKING SIDE LAPS. SIDE LAPS MUST BE FASTENED WITH #10 DRILL SCREWS AT MAX 36" OC.
8. ALL DECKS MUST ARE DESIGNED FOR SINGLE SPANS. TWO OR MORE SPANS MAY BE USED WHERE GEOMETRY ALLOWS.

8 0 8 16

SCALE: 1/8" = 1'-0"

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
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FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT JACKSONVILLE PORT AUTHORITY

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JACKSONVILLE, FL 32226

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PATRICK MULL
LICENSE
No 73265
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL GENERAL NOTES

SHEET ID:
S012

PROJECT STATUS:
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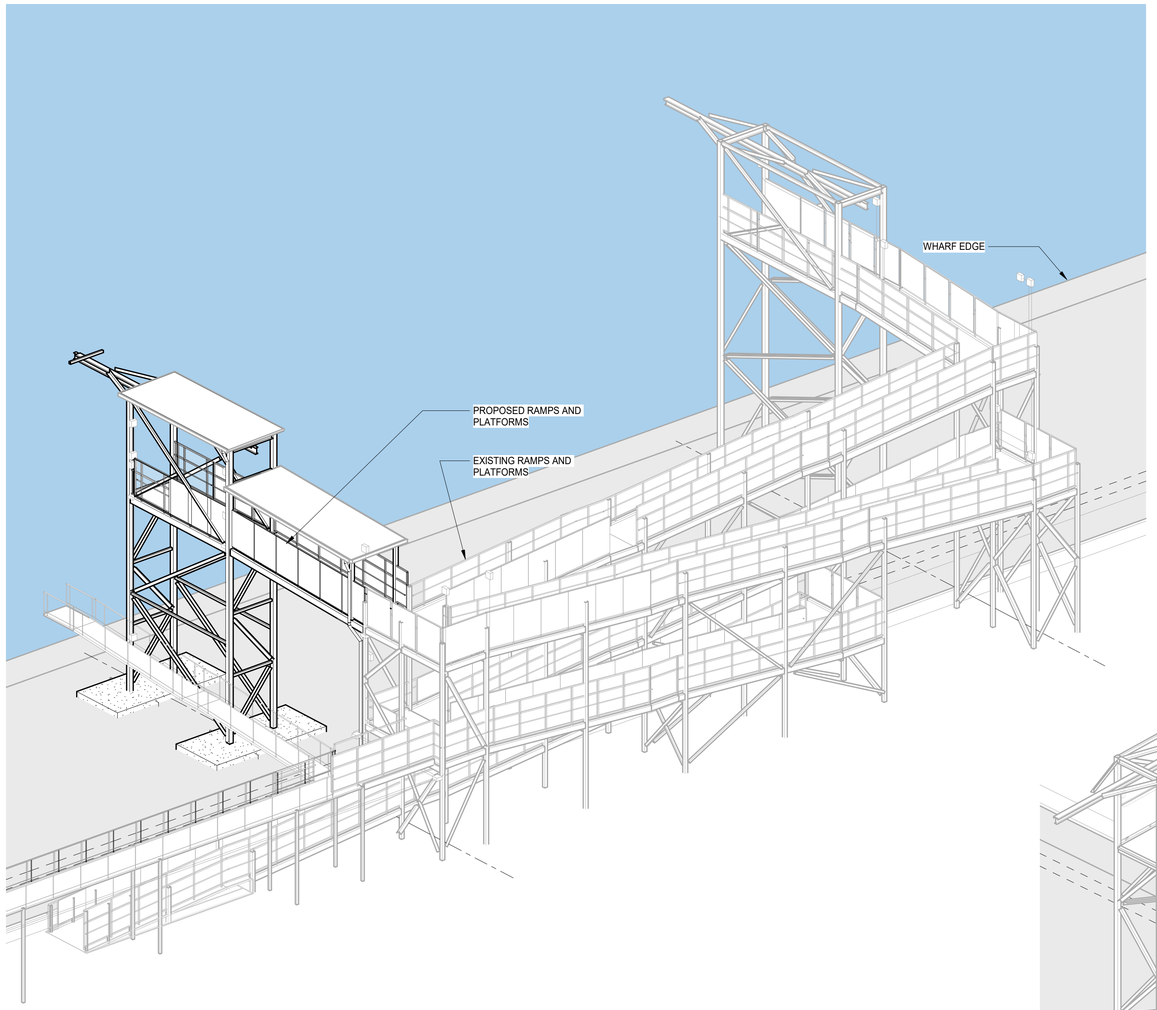
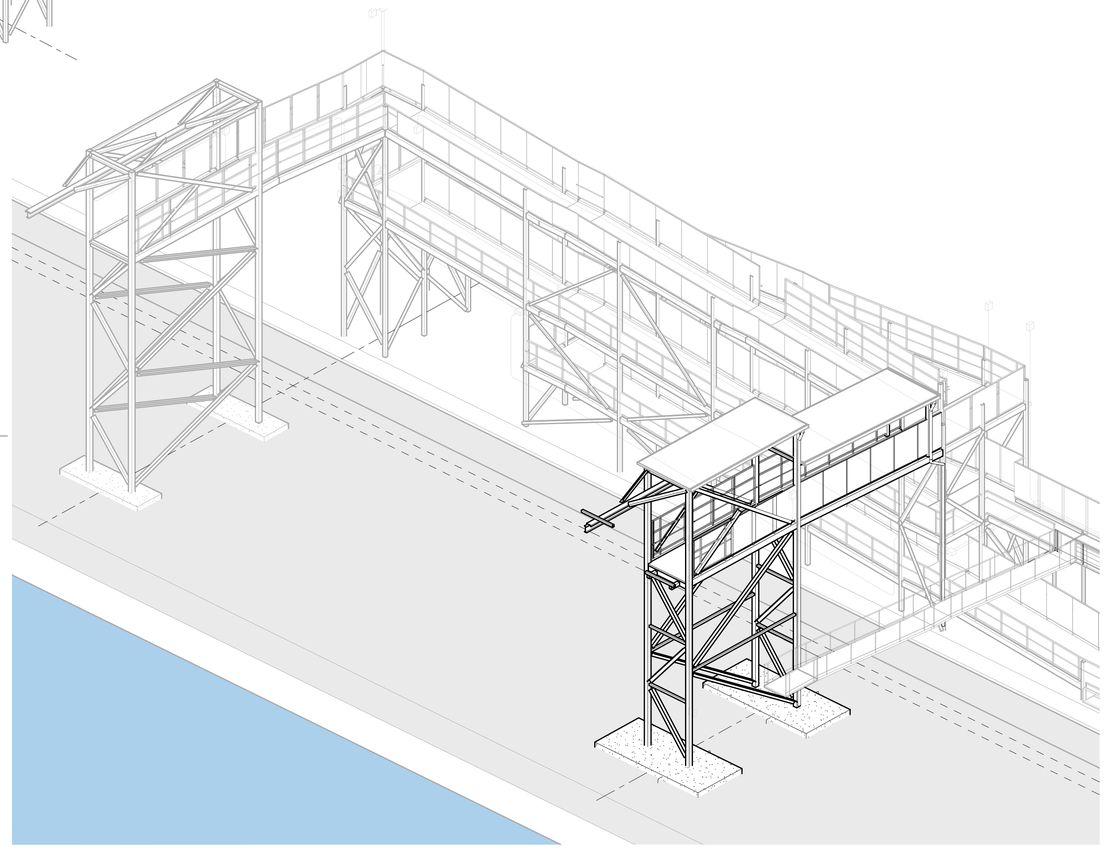


N

1 NTS SCALE:

3D PERSPECTIVE - BUILDING SIDE



N

2 NTS SCALE: 3

3D PERSPECTIVE - WHARF SIDE

NOTES:

1. PERSPECTIVE VIEWS ARE PROVIDED FOR REFERENCE ONLY. NOT ALL FRAMING IS NECESSARILY VISIBLE IN VIEW. THESE VIEWS SHOULD NOT BE USED FOR BIDDING, DETAILING, FABRICATION, OR ERECTION PURPOSES.

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STRUCTURAL ISOMETRICS

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S013

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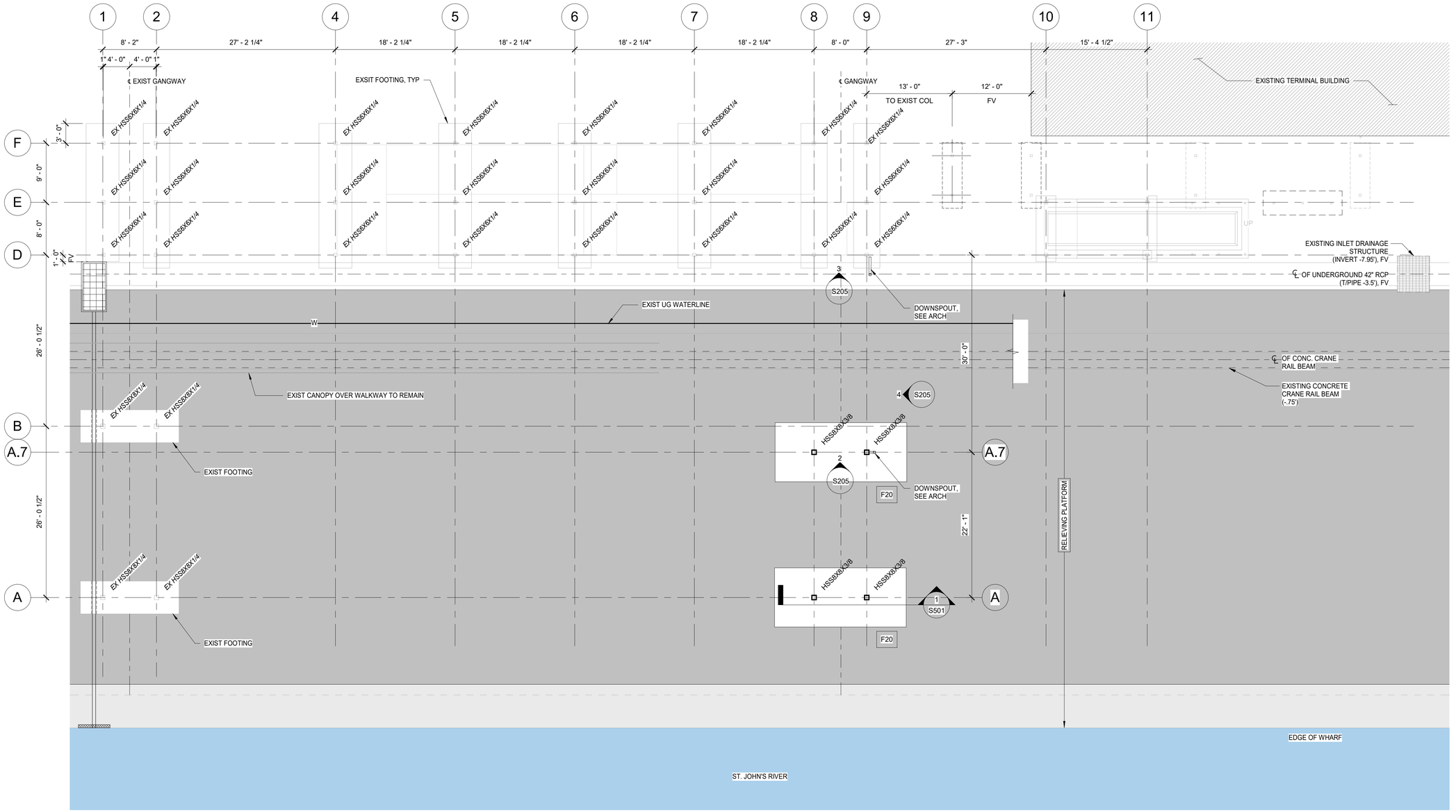

FOUNDATION PLAN

1 / S101 SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. DRAWING ELEVATION 0'-0" = EL. OF T/EXIST FOOTING LOCATED AT THE SOUTHWEST CORNER OF THE EXISTING TERMINAL BLDG (SEE PLAN FOR LOCATION).
2. FXX INDICATES SPREAD FOOTING TYPE. SEE PLAN & SCHEDULE, THIS SHEET.
3. FOR TYP COL BASE PL DETAILS SEE S501.

FOUNDATION SCHEDULE

TYPE	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F20	20' - 0"	9' - 0"	2' - 10"	10- #7 LONG T & B, 21-#7 SHORT, T & B, SEE 1/S501

8 0 8 16

SCALE: 1/8" = 1'-0"

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SEAL:
PATRICK MULL LICENSE No 73265 STATE OF FLORIDA PROFESSIONAL ENGINEER

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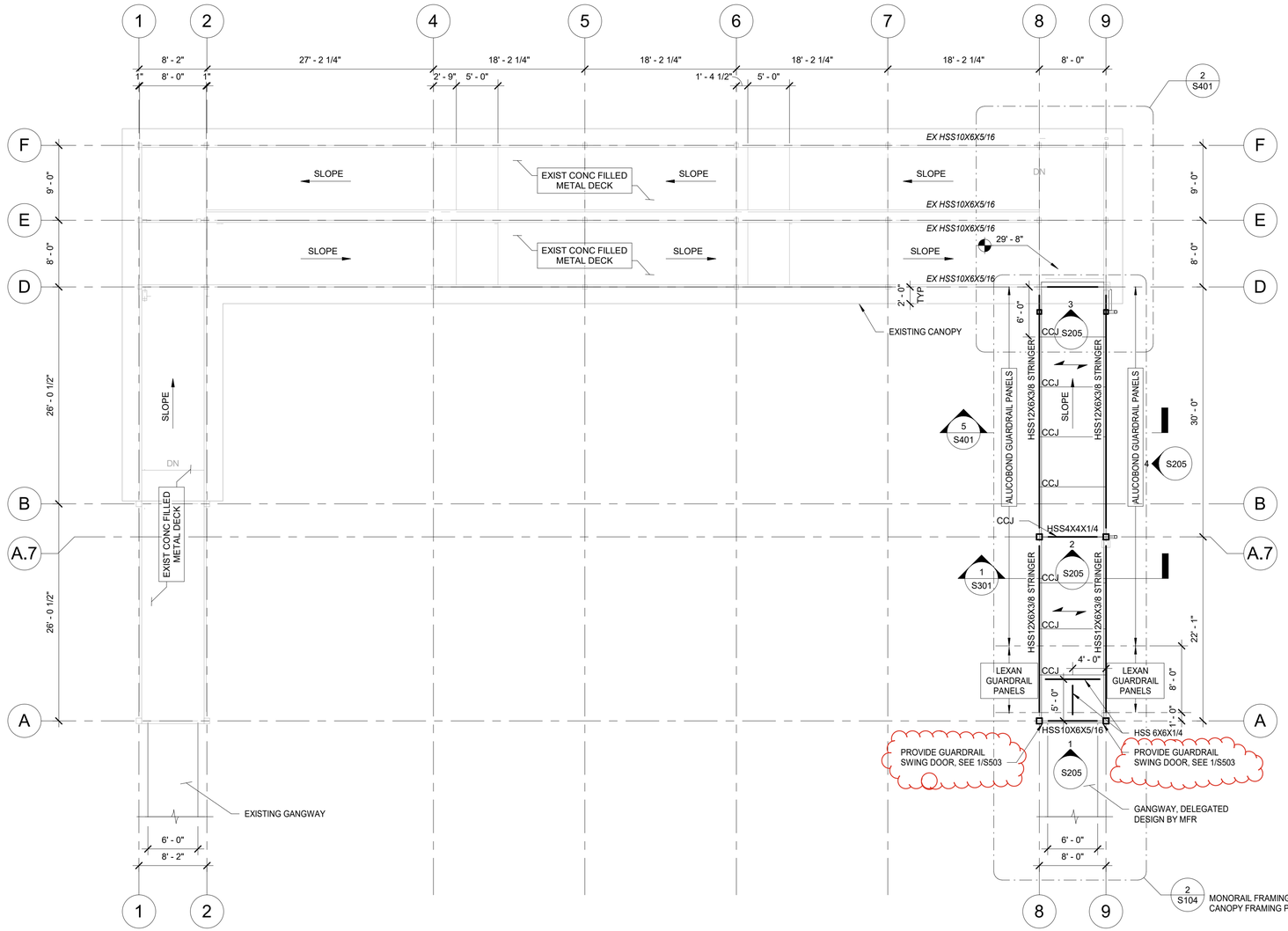
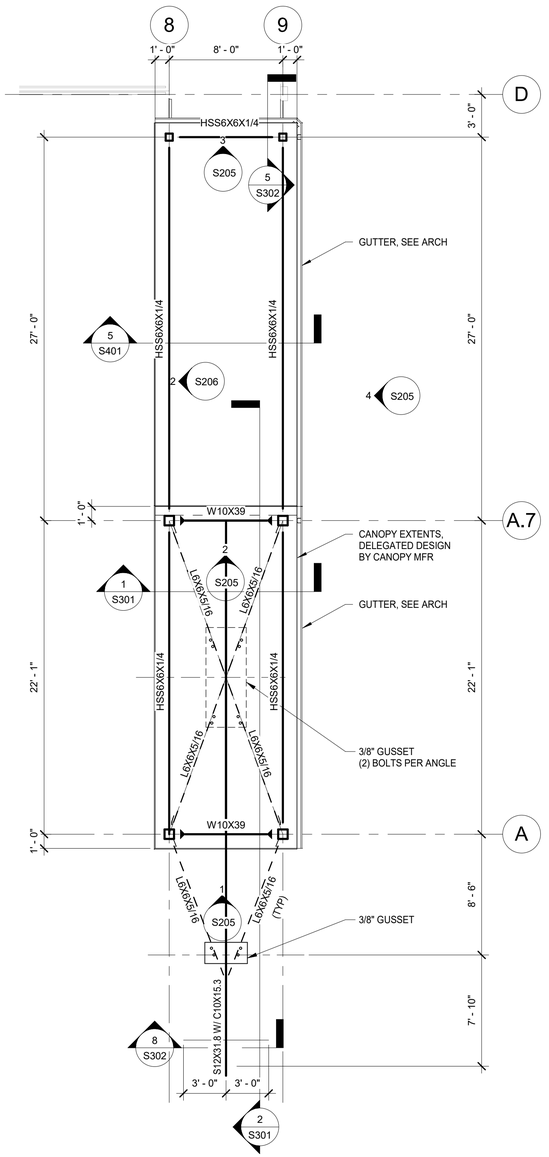
FOUNDATION PLAN

SHEET ID:
S101

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION





LEVEL 4 FRAMING PLAN

1 S104 SCALE: 1/8" = 1'-0"

MONORAIL FRAMING & ROOF CANOPY PLAN

2 S104 SCALE: 3/16" = 1'-0"

NOTES:

1. T/STL STRINGER AT PLATFORM & RAMP EDGES IS +4" FROM T/DECK. SEE DETAIL 1/S502.
2. FOR TYPICAL CONNECTIONS, SEE SHEET S502 AND S503.
3. CCJ INDICATES CONTRACTION CONTROL JOINT'S AT CONCRETE SURFACE, TYP. SEE 5/S501 FOR DETAIL.
4. ⟷ INDICATES METAL FLOOR DECK SPAN DIRECTION. SEE SHEET S012 FOR METAL DECK NOTES.
5. FOR GUARDRAIL INFILL PANEL TYPE, SEE PLANS.
6. FOR GUARDRAIL DETAILS, SEE S-502.

8 0 8 16
SCALE: 1/8" = 1'-0"

4 0 4 8 12
SCALE: 3/16" = 1'-0"

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JAXPORT JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	PFM
DRAWN BY:	JAM
DESIGNED BY:	LAP

PROJECT NUMBER: **10014153000**

SEAL: PATRICK MULL LICENSE No 73265 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
RAMP FRAMING PLAN - UPPER

SHEET ID:
S104

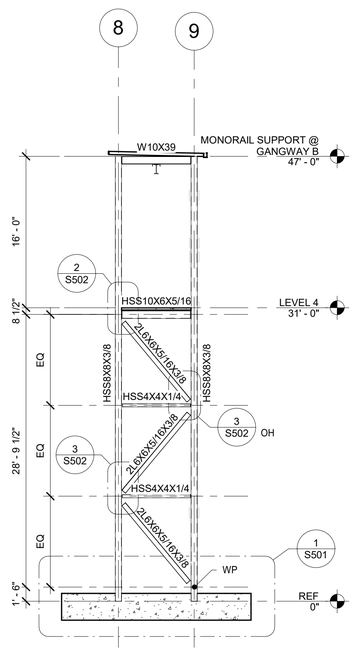
PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION

FRAMING ELEVATION NOTES:

INDICATES TOP OF RAMP ELEVATION.

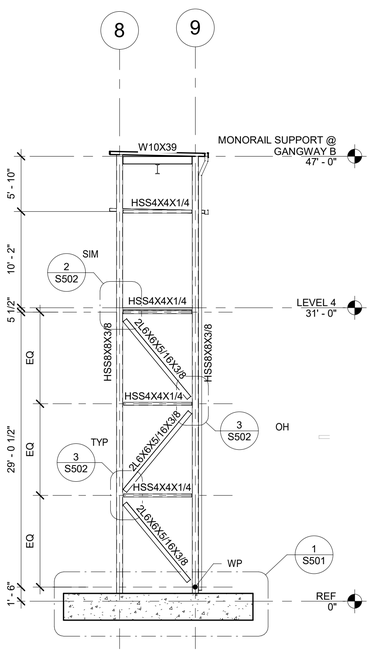
(+/- X'-X") INDICATES WORK POINT ELEVATION ABOVE OR BELOW TOP OF RAMP.

1. T/STL STRINGER IS +4" FROM T/DECK. SEE DETAIL 1/S502.
2. FOR LANDING DIMENSIONS AND ELEVATIONS, SEE FRAMING PLANS.
3. FOR TYPICAL CONNECTIONS, SEE SHEET S502 AND S503.
4. (ECC) INDICATES ECCENTRIC BRACE, FACE OF BRACE IS ALIGNED TO FACE OF SUPPORTING HSS MEMBERS AT END CONNECTIONS.
5. PROVIDE (2) INTERMEDIATE CONNECTORS AT EQ SPACING ALONG LENGTH.



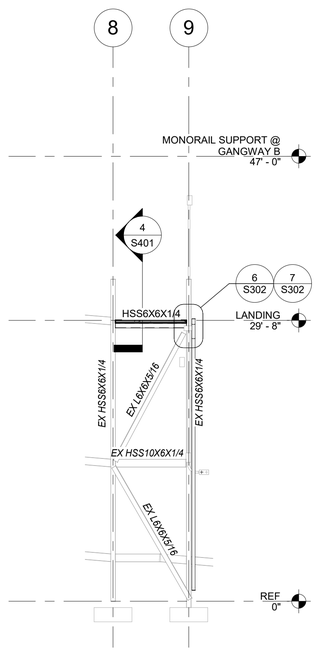
1 S205 GRID A FRAMING ELEVATION

SCALE: 1/8" = 1'-0"



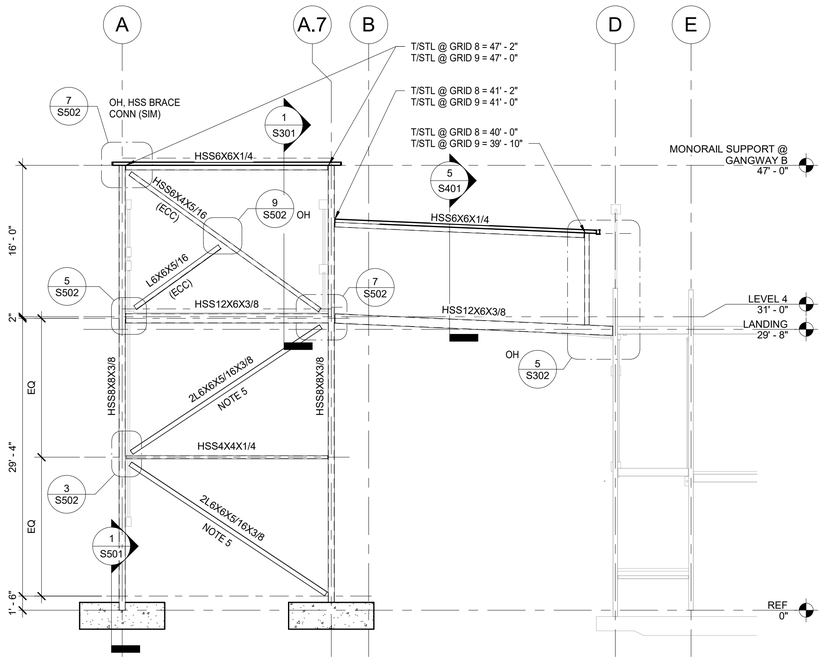
2 S205 GRID A.7 FRAMING ELEVATION

SCALE: 1/8" = 1'-0"



3 S205 GRID D FRAMING ELEVATION

SCALE: 1/8" = 1'-0"



4 S205 GRID 9 FRAMING ELEVATION

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

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DATE ISSUED:	01/24/2025
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DRAWN BY:	JAM
DESIGNED BY:	LAP

PROJECT NUMBER:
10014153000

SEAL:
PATRICK MULL LICENSE No 73265 STATE OF FLORIDA PROFESSIONAL ENGINEER

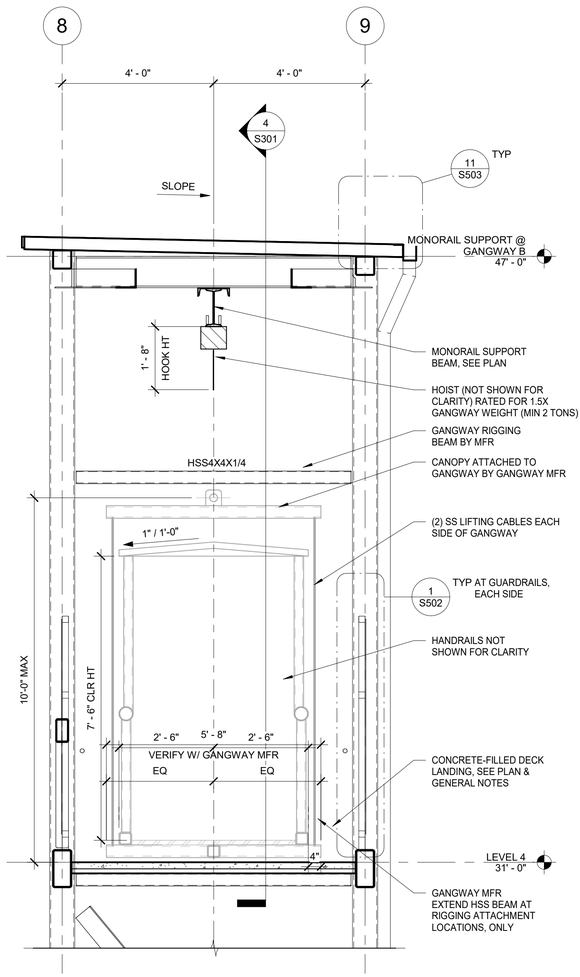
SHEET TITLE:
FRAMING ELEVATIONS

SHEET ID:
S205

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION

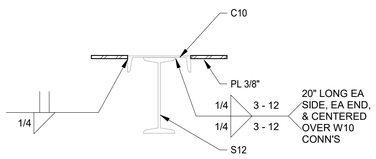
MONORAIL CRANE NOTES:

1. HOIST HOOK HEIGHT 12'-6" ABOVE T/LANDING.
2. CRANE CAPACITY = 2 TONS. VERIFY GANGWAY WEIGHT W/ MFR.
3. AVAILABLE LIFT = 46 FT.



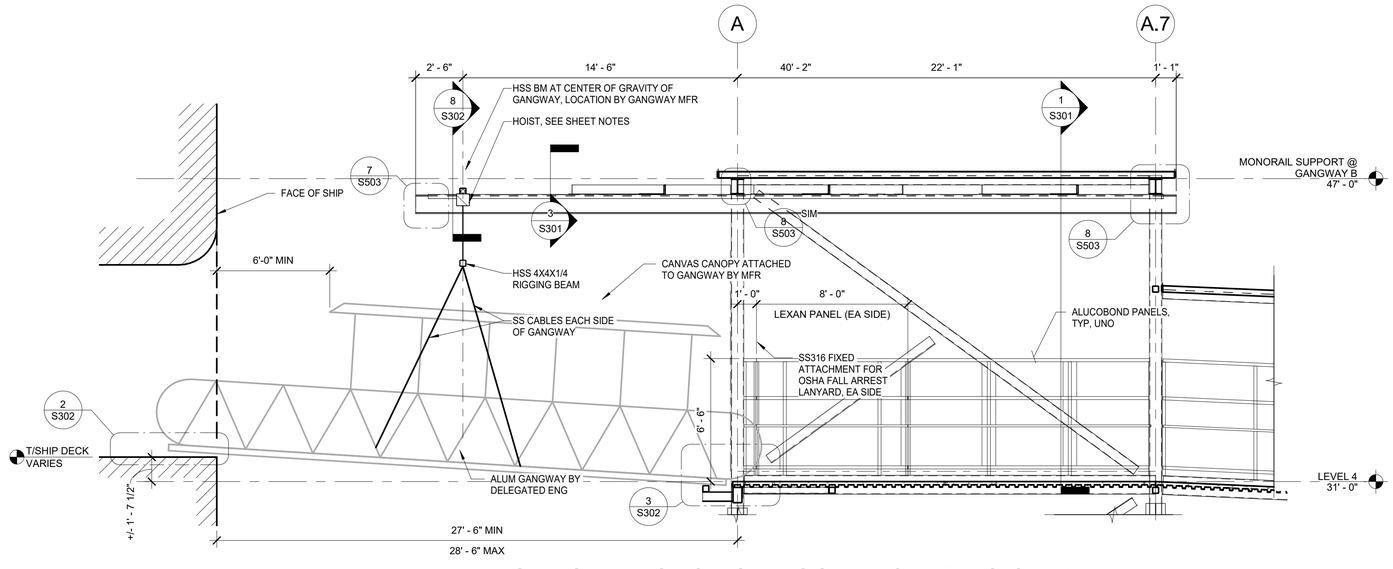
1 S301 SCALE: 1/2" = 1'-0"

SECTION @ GANGWAY LANDING



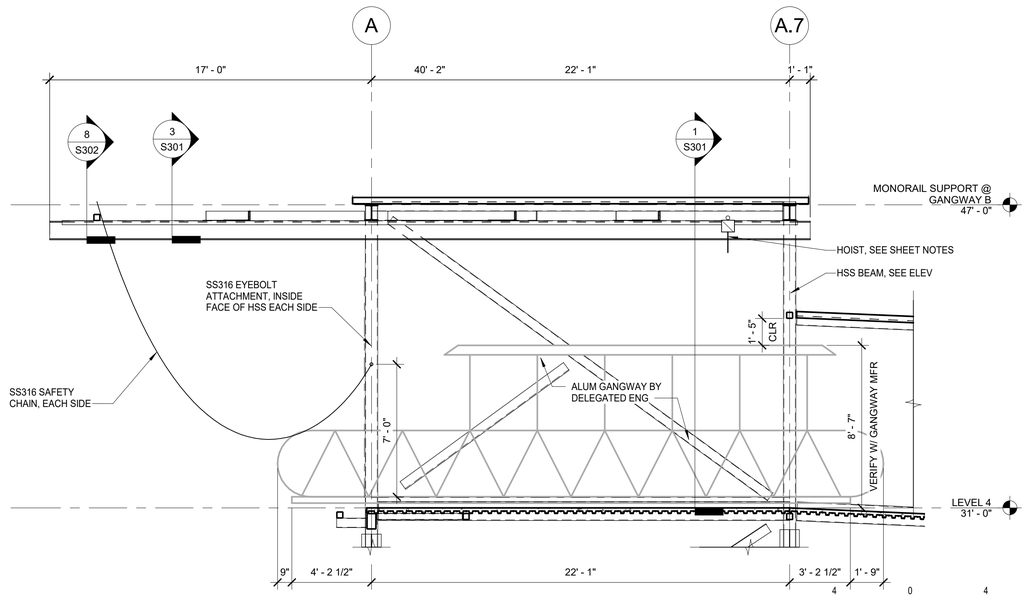
3 S301 SCALE: 1" = 1'-0"

SECTION



2 S301 SCALE: 1/4" = 1'-0"

GANGWAY SECTION - CONNECTED TO SHIP



4 S301 SCALE: 1/4" = 1'-0"

GANGWAY SECTION - STOWED

4 0 4 8
SCALE: 1/4" = 1'-0"

2 0 2 4
SCALE: 1/2" = 1'-0"

1 0 1 2
SCALE: 1" = 1'-0"

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JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

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9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

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DESIGNED BY:	LAP

PROJECT NUMBER:
10014153000

SEAL:
PATRICK MULL
LICENSE
No 73265
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL SECTIONS - I

SHEET ID:
S301

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION

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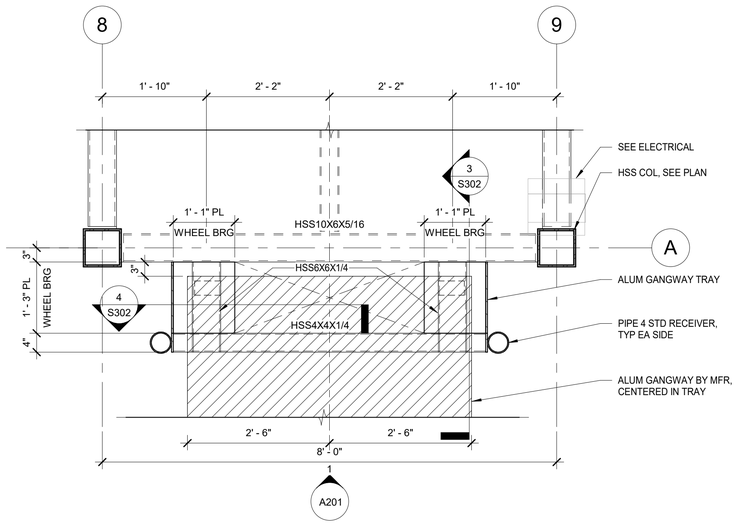
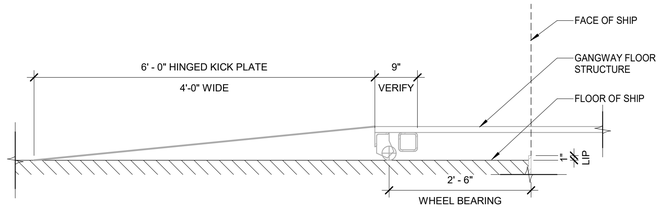


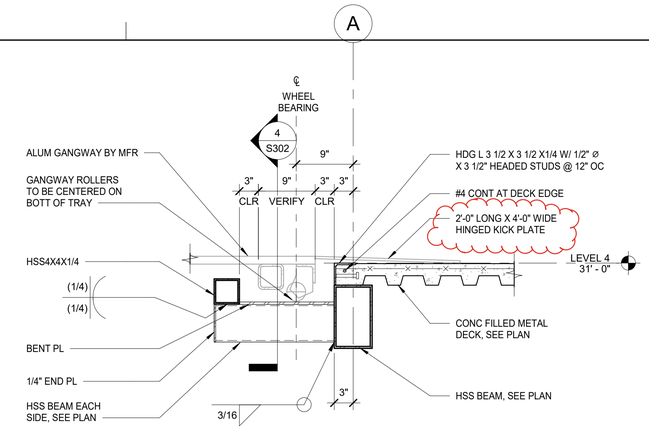
1 S302 GANGWAY END BEARING DETAIL

SCALE: 3/4" = 1'-0"



2 S302 SECTION @ GANGWAY BEARING AT SHIP

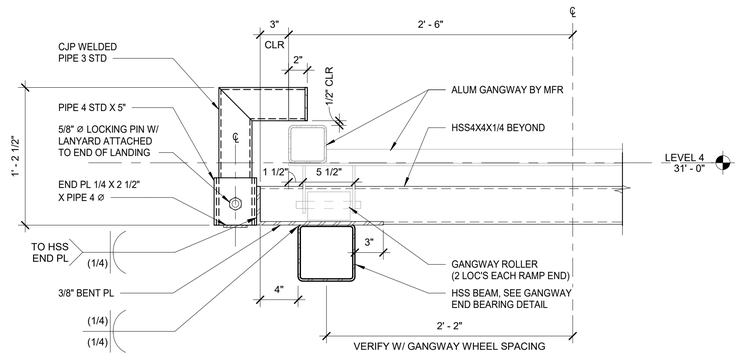
SCALE: 3/4" = 1'-0"



NOTES:
1. PROVIDE SAFETY CHAINS EACH SIDE CONNECTING GANGWAY TO LANDING FIXED STRUCTURE (NOT SHOWN FOR CLARITY).
2. VERIFY TRAY SIDE PLATE HEIGHTS WITH GANGWAY WHEEL HEIGHT PRIOR TO FABRICATION.

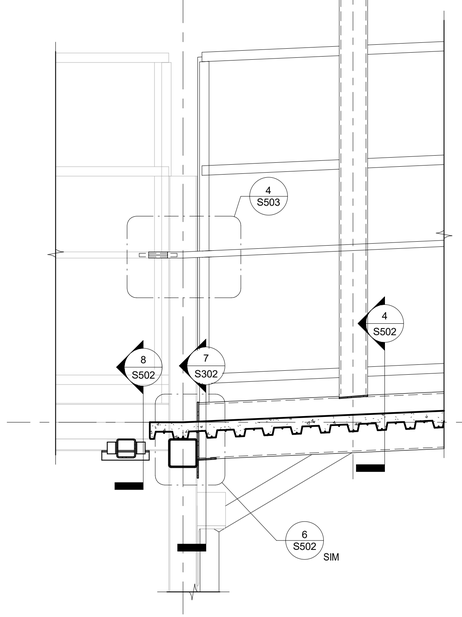
3 S302 SECTION @ GANGWAY BEARING AT LANDING

SCALE: 1" = 1'-0"



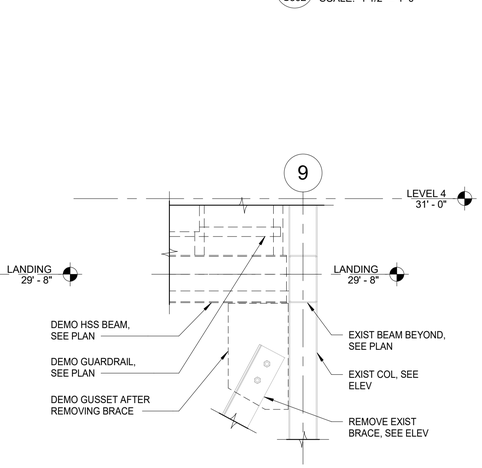
4 S302 SECTION II @ GANGWAY BEARING AT LANDING

SCALE: 1 1/2" = 1'-0"



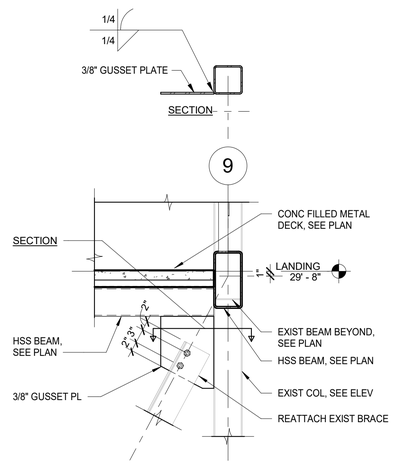
5 S302 SECTION @ EXISTING

SCALE: 3/4" = 1'-0"



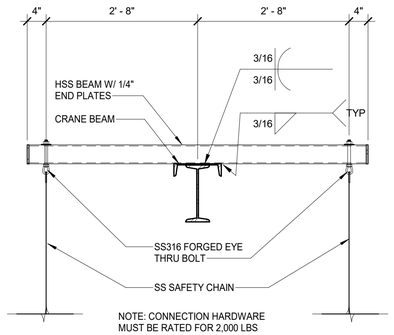
6 S302 DETAIL @ BRACE REMOVAL

SCALE: 3/4" = 1'-0"



7 S302 DETAIL @ BRACE REPLACE

SCALE: 3/4" = 1'-0"



NOTE: CONNECTION HARDWARE MUST BE RATED FOR 2,000 LBS

8 S302 SECTION @ SAFETY BEAM

SCALE: 3/4" = 1'-0"

4 0 4 8
SCALE: 1/4" = 1'-0"

2 0 2 4
SCALE: 1/2" = 1'-0"

1 0 1 2
SCALE: 1" = 1'-0"

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JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

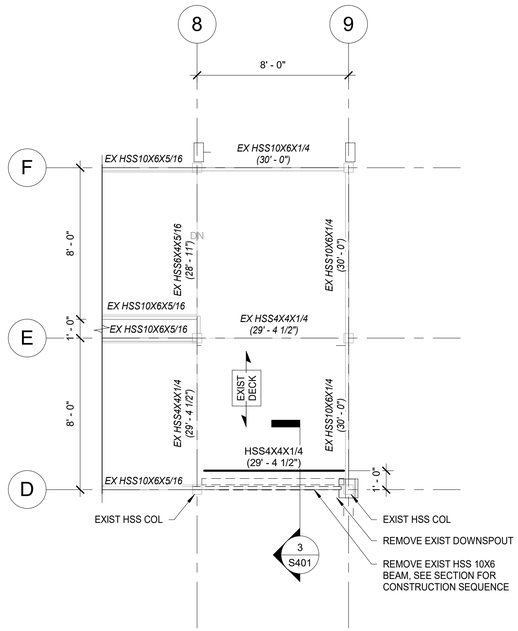
DATE ISSUED: 01/24/2025
REVIEWED BY: PFM
DRAWN BY: JAM
DESIGNED BY: LAP
PROJECT NUMBER:
10014153000

SEAL:
PATRICK MULL
LICENSE
No 73265
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE:
STRUCTURAL
SECTIONS - II

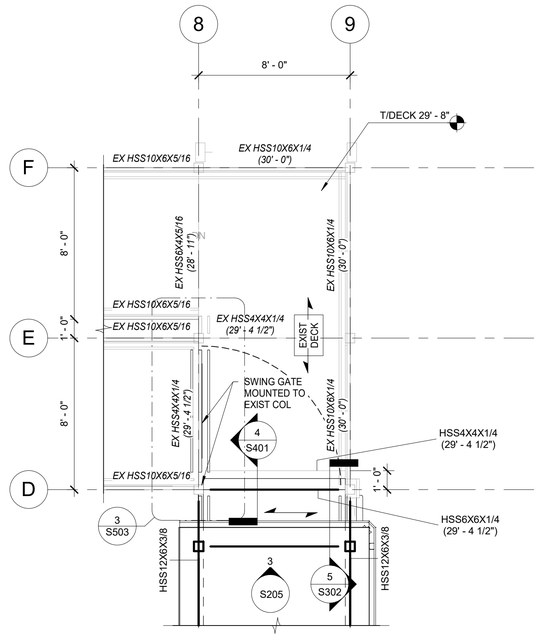
SHEET ID:
S302

PROJECT STATUS:
100% SUBMITTAL
FOR CONSTRUCTION



1 S401 ENLARGED LANDING DEMO PLAN - EL. 29'-8"

SCALE: 1/4" = 1'-0"



2 S401 ENLARGED LANDING PLAN - EL. 29'-8"

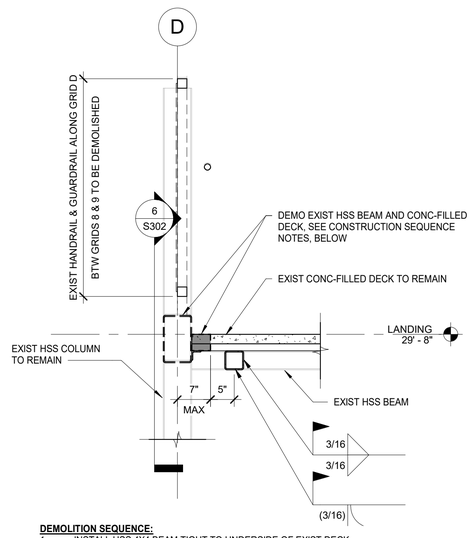
SCALE: 1/4" = 1'-0"

ENLARGED LANDING PLAN NOTES:

INDICATES FLOOR METAL DECK SPAN DIRECTION. SEE SHEET S012 FOR DECK NOTES.

(X'-X") INDICATES T/STL BEAM ELEVATION

1. T/STL STRINGER IS +4" FROM T/DECK.
2. FOR LANDING DIMENSIONS AND ELEVATIONS, SEE FRAMING PLANS.
3. FOR TYPICAL CONNECTIONS, SEE SHEET S502 & S503.

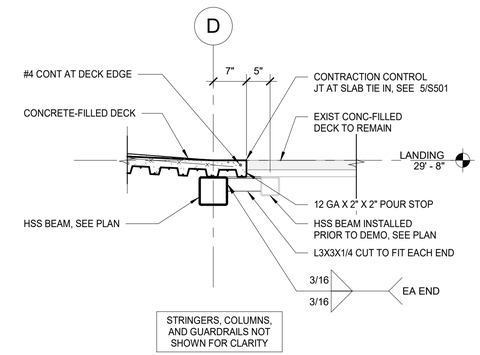


DEMOLITION SEQUENCE:

1. INSTALL HSS 4X4 BEAM TIGHT TO UNDERSIDE OF EXIST DECK.
2. REMOVE EXIST GAURDRAIL, HSS BEAM, AND PORTION OF CONC-FILLED DECK SHOWN HERE.

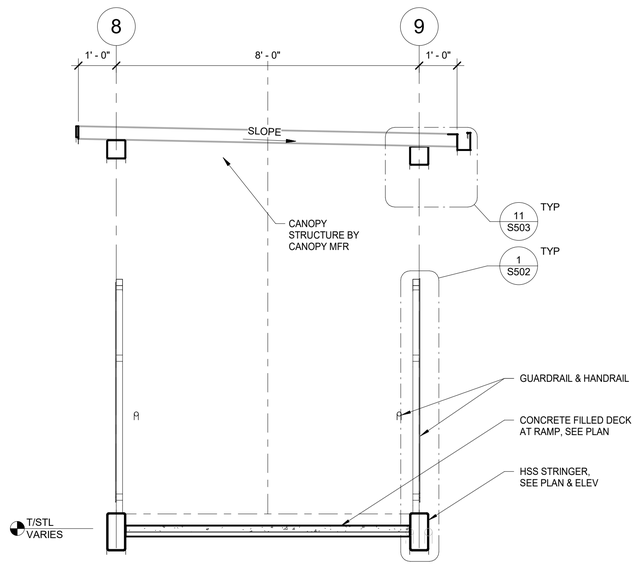
3 S401 LANDING DEMO SECTION

SCALE: 3/4" = 1'-0"



4 S401 LANDING SECTION

SCALE: 3/4" = 1'-0"



5 S401 TYPICAL RAMP SECTION

SCALE: 1/2" = 1'-0"

4 0 4 8

SCALE: 1/4" = 1'-0"

1 0 1 2 3

SCALE: 3/4" = 1'-0"

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JAXPORT JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	PFM
DRAWN BY:	JAM
DESIGNED BY:	LAP

PROJECT NUMBER:
10014153000

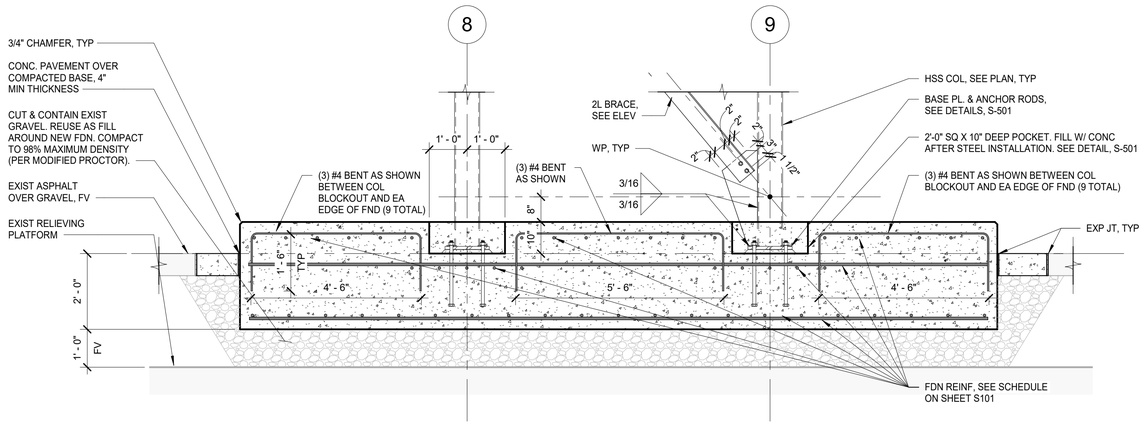
SEAL:

PATRICK MULL LICENSE No 73265 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
ENLARGED LANDING PLANS

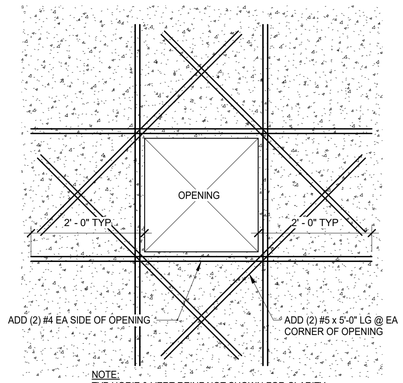
SHEET ID:
S401

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION



1 S501 RAMP FOUNDATION SECTION

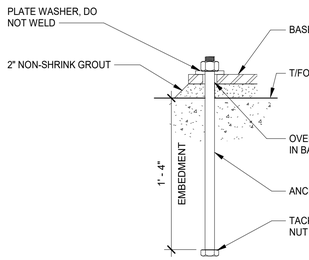
SCALE: 1/2" = 1'-0"



NOTE:
TYP HORIZ & VERT REINF NOT SHOWN FOR CLARITY

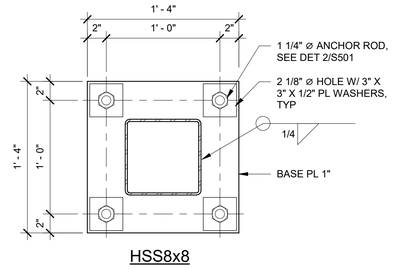
2 S501 TYP RECTANGULAR OPENING IN FOUNDATION

SCALE: 3/4" = 1'-0"



3 TYPICAL ANCHOR ROD DETAIL

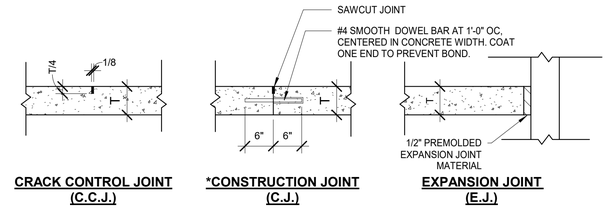
SCALE: 1 1/2" = 1'-0"



HSS8x8

4 TYPICAL BASE PLATE DETAIL

SCALE: 1 1/2" = 1'-0"



CRACK CONTROL JOINT (C.C.J.) | ***CONSTRUCTION JOINT (C.J.)** | **EXPANSION JOINT (E.J.)**

NOTES:
1. CCJ MUST BE PREFORMED OR SAWED. IF SAWED, SAWING MUST TAKE PLACE WITHIN 12 HRS. OF SLAB PLACEMENT. MATCH LOCATIONS OF EXISTING CCJ'S.
2. * USE INSTEAD OF CRACK CONTROL JOINT WHEREVER CONSTRUCTION IS STOPPED OR WHERE CALLED FOR ON PLAN.

5 SLAB JOINT DETAILS

SCALE: 3/4" = 1'-0"

2 0 2 4
SCALE: 1/2" = 1'-0"

1 0 1 2 3
SCALE: 3/4" = 1'-0"

1 0 1
SCALE: 1 1/2"= 1'-0"

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JAXPORT JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

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DATE ISSUED: 01/24/2025
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DESIGNED BY: LAP
PROJECT NUMBER: 10014153000

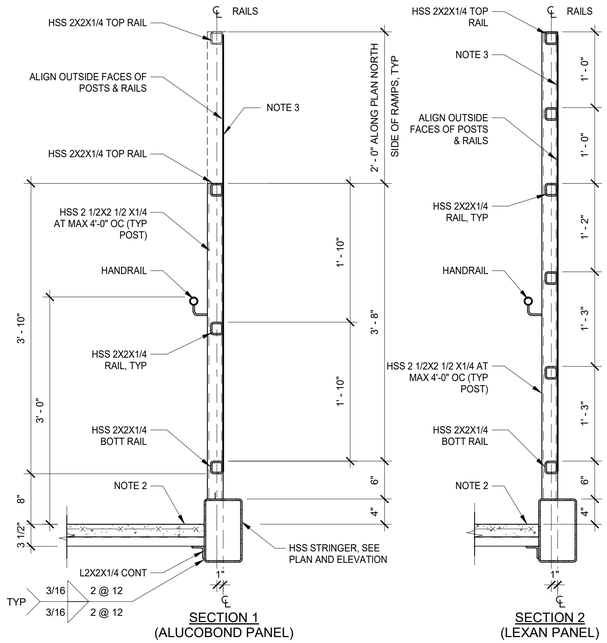
SEAL:
PATRICK MULL LICENSE No 73265 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
FOUNDATION SECTIONS & DETAILS

SHEET ID:
S501

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION

1/24/2025 2:04:20 PM Autodesk Docs://10014153019_DPMT CT GANGWAY MOD/10014153019_JAXPORT Cruise Gangway_S_R22.rvt



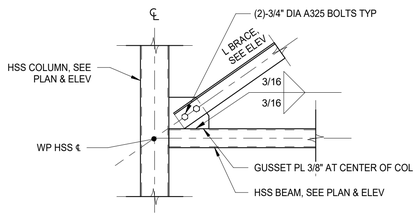
SECTION 1
(ALUCOBOND PANEL)

SECTION 2
(LEXAN PANEL)

NOTES:
1. SEE PLAN ON SHEET S105 FOR PANEL & GUARDRAIL TYPE LOCATIONS.
2. 1 1/2" METAL DECK FILLED W/CONCRETE (3 1/2" TOTAL THICKNESS) SEE S012 FOR NOTES.
3. INFILL PANELS, SEE NOTES. PANELS MUST BE ATTACHED TO ALL HORIZ. RAILS PER THE NOTES.

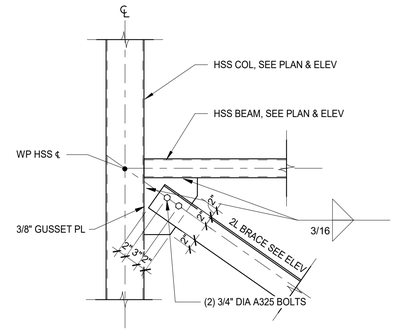
1 S502 GUARDRAIL DETAILS

SCALE: 1" = 1'-0"



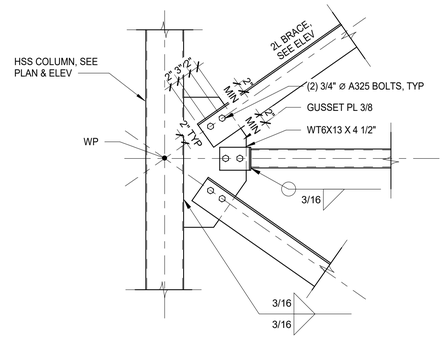
5 S502 L BRACE DETAIL

SCALE: 3/4" = 1'-0"



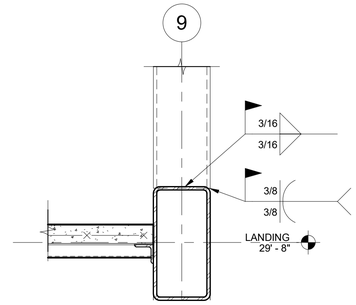
2 S502 2L BRACE DETAIL - 1

SCALE: 3/4" = 1'-0"



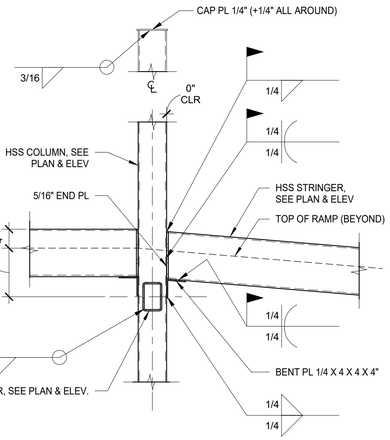
3 S502 2L BRACE DETAIL - 2

SCALE: 3/4" = 1'-0"



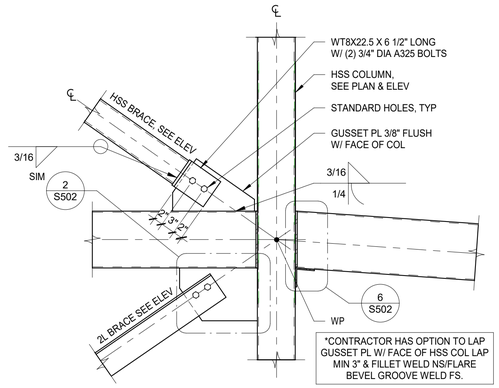
4 S502 DETAIL II @ POST UP COL

SCALE: 1 1/2" = 1'-0"



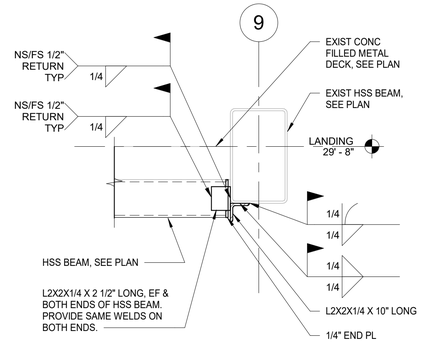
6 S502 BEAM CONN DETAIL

SCALE: 3/4" = 1'-0"



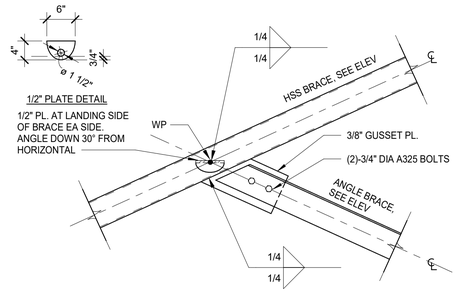
7 S502 BRACE DETAIL @ LANDING

SCALE: 3/4" = 1'-0"



8 S502 BEAM CONN @ EXIST

SCALE: 1 1/2" = 1'-0"



9 S502 L AT HSS BRACE DETAIL

SCALE: 3/4" = 1'-0"

NOTES:
1. TOP LEG OF ANGLES MUST BE HORIZONTAL.
2. WELD ANGLE BRACES ALL AROUND MINIMUM DIMENSIONS SHOWN ARE FOR GUSSET SIZE DETERMINATION.
3. SEAL ALL GAPS WITH SILICONE SEALANT PRIOR TOUCH-UP PAINTING.

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FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	PFM
DRAWN BY:	JAM
DESIGNED BY:	LAP

PROJECT NUMBER:
10014153000

SEAL:
PATRICK MULL
LICENSE
No 73265
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE:
FRAMING SECTIONS & DETAILS - I

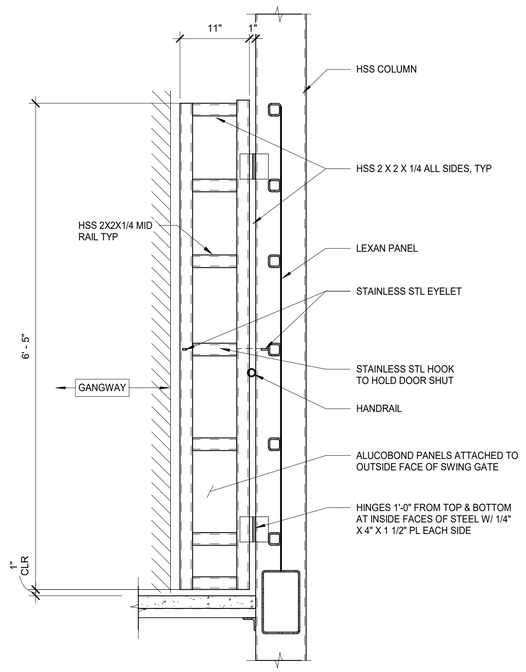
SHEET ID:
S502

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION

1 0 1 2 3
SCALE: 3/4" = 1'-0"

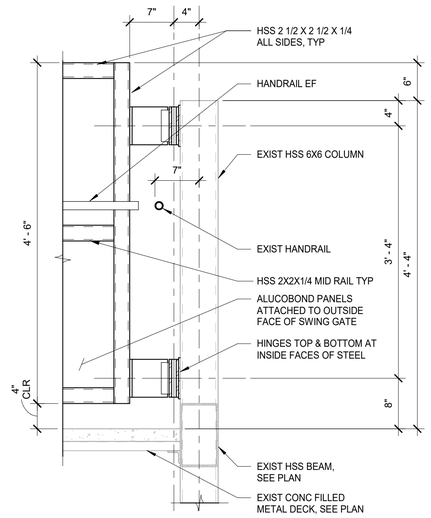
1 0 1 2
SCALE: 1" = 1'-0"

1 0 1
SCALE: 1 1/2"= 1'-0"



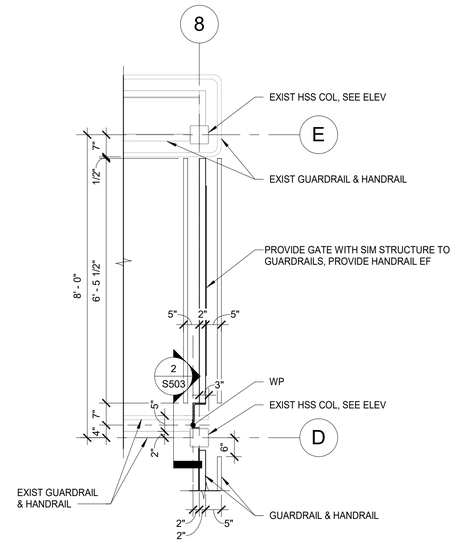
1 S503 GUARDRAIL SWING DOOR DETAIL

SCALE: 1" = 1'-0"



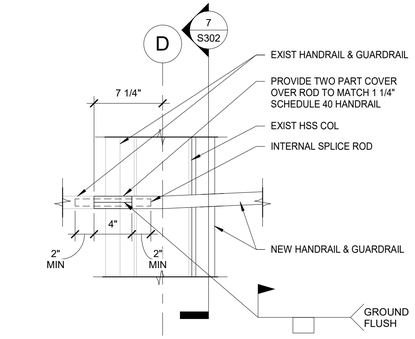
2 S503 SWING GATE DETAIL

SCALE: 1" = 1'-0"



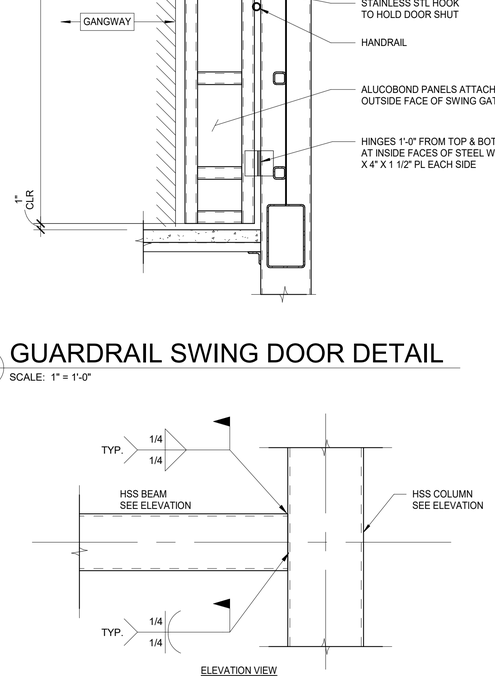
3 S503 ENLARGED PLAN @ SWING GATE

SCALE: 1/2" = 1'-0"



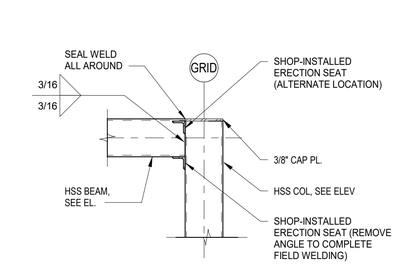
4 S503 HANDRAIL SPLICE DETAIL

SCALE: 1 1/2" = 1'-0"



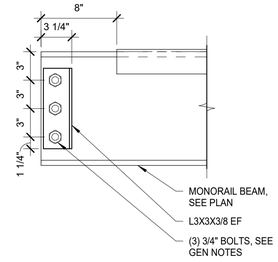
5 S503 STL - HSS TO HSS END CONN

SCALE: 1 1/2" = 1'-0"



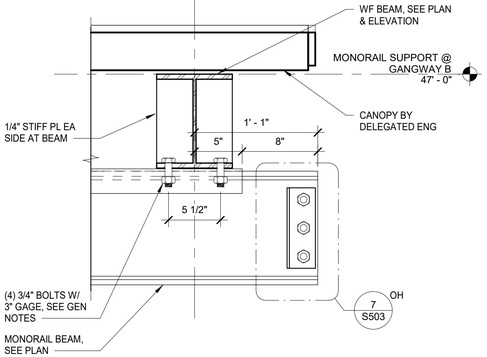
6 S503 HSS BEAM-COL CAP CONN DETAIL

SCALE: 1" = 1'-0"



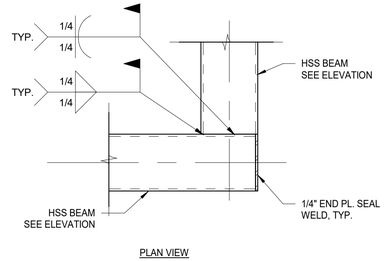
7 S503 DETAIL @ END OF MONORAIL

SCALE: 1 1/2" = 1'-0"



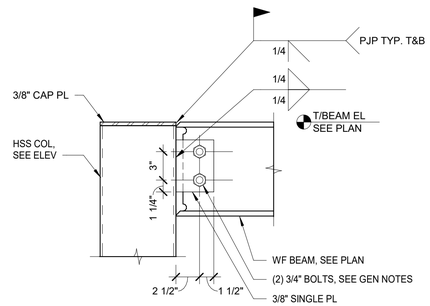
8 S503 DETAIL @ MONORAIL SUPPORT

SCALE: 1 1/2" = 1'-0"



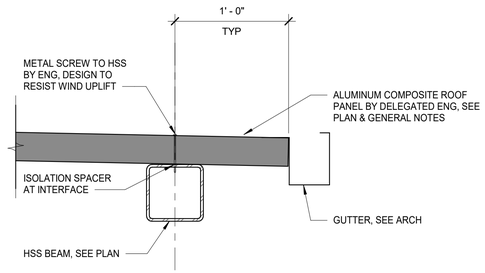
9 S503 STL - HSS TO HSS CORNER CONN

SCALE: 1 1/2" = 1'-0"



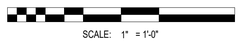
10 S503 WF BEAM @ HSS COL MOMENT CONN

SCALE: 1 1/2" = 1'-0"

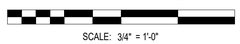


11 S503 CANOPY TO BEAM DETAIL

SCALE: 1 1/2" = 1'-0"



SCALE: 1" = 1'-0"



SCALE: 3/4" = 1'-0"

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FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	PFM
DRAWN BY:	JAM
DESIGNED BY:	LAP
PROJECT NUMBER:	10014153000

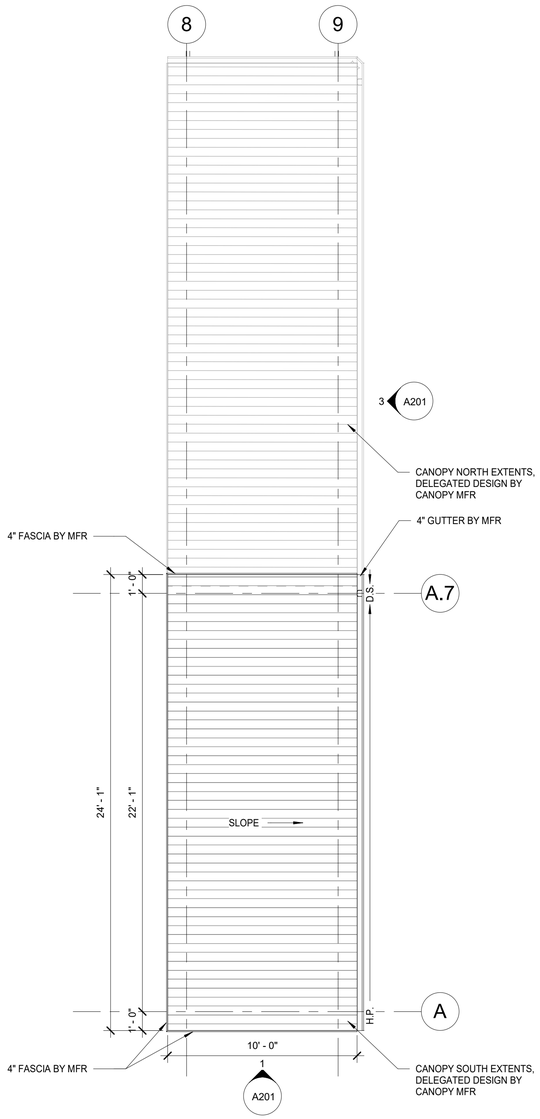
SEAL:

PATRICK MULL LICENSE No 73265 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
FRAMING SECTIONS & DETAILS - II

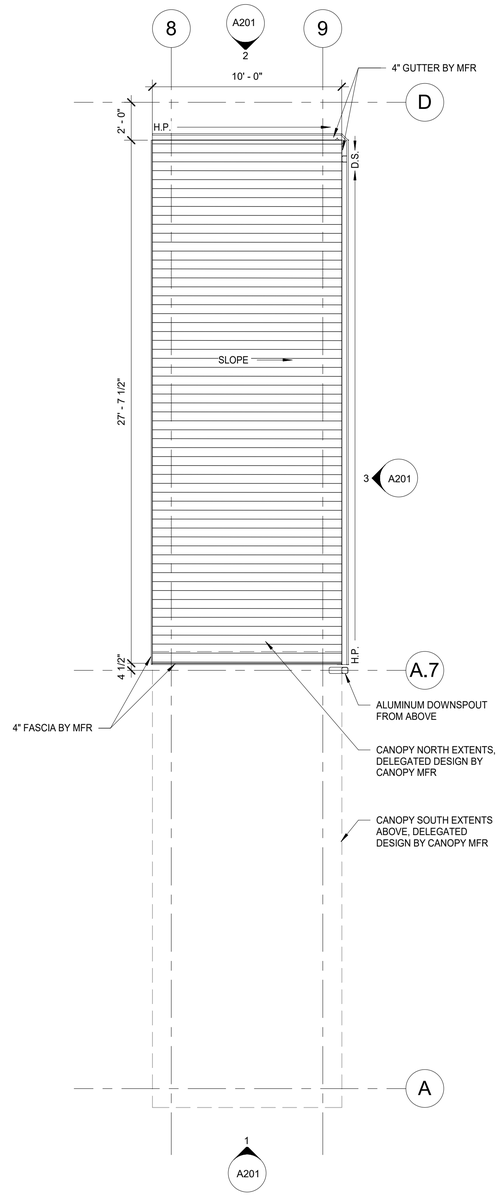
SHEET ID:
S503

PROJECT STATUS:
100% SUBMITTAL FOR CONSTRUCTION



1 A121 ENLARGED ROOF PLAN - CANOPY SOUTH

SCALE: 1/4" = 1'-0"



2 A121 ENLARGED ROOF PLAN - CANOPY NORTH

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE OF THE STATE OF FLORIDA.
2. THE DIMENSIONS MUST BE USED IN CONJUNCTION WITH THE SPECIFICATIONS.
3. THE CONTRACTOR WILL FIELD VERIFY DIMENSIONS AND REPORT IN WRITING ANY CONFLICTS PRIOR TO FABRICATION.
4. SEE ELECTRICAL PLANS FOR OPERATIONAL LAYOUT. CONTRACTOR MUST VERIFY AND COORDINATE WITH OWNER'S VENDOR FOR CORRECT PLACEMENT OF HARDWARE PRIOR TO CONSTRUCTION.
5. EXISTING AND FUTURE UNDERLAY LINEWORK FOR REFERENCE PURPOSES ONLY. ANY CIVIL RELATED WORK, SEE CIVIL PACKAGE FOR DETAILS.
6. THESE DRAWINGS ARE PROVIDED FOR A SPECIFIC DESIGN INTENT ONLY.

BASIS OF DESIGN

1. ELITE ALUMINUM CORPORATION, CANOPY PANEL.
2. ELITE ALUMINUM CORPORATION, ELITE 'E' GUTTER AND ELITE 'E' FASCIA.

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JAXPORT JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 01/24/2025
REVIEWED BY: SDP
DRAWN BY: ALH
DESIGNED BY: CMV
PROJECT NUMBER: 10014153000

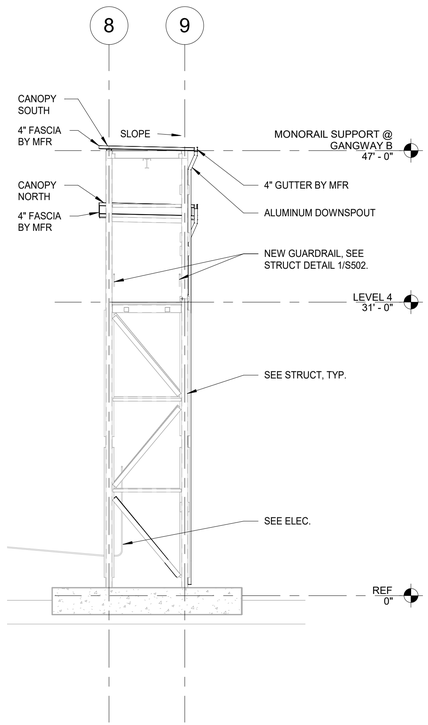
SEAL:
STATE OF FLORIDA
CAROLINA M. VALLADARES
AR102352
REGISTERED ARCHITECT

SHEET TITLE:
ROOF PLAN

SHEET ID:
A121

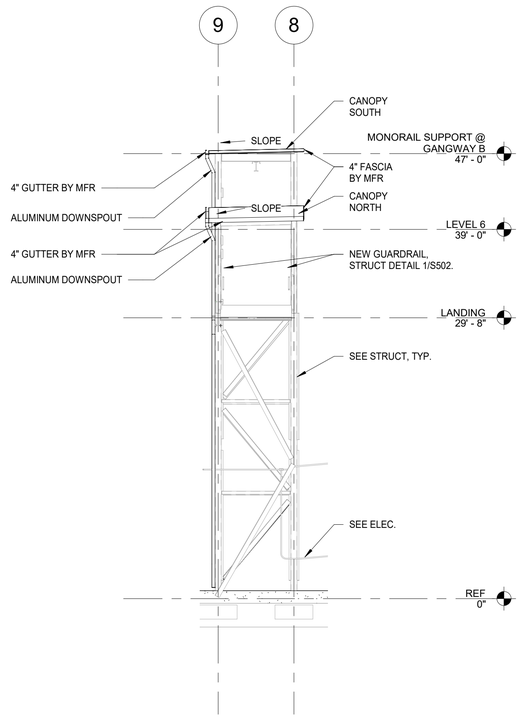
PROJECT STATUS:
100% SUBMITTAL
FOR CONSTRUCTION

4 0 4 8
SCALE: 1/4" = 1'-0"



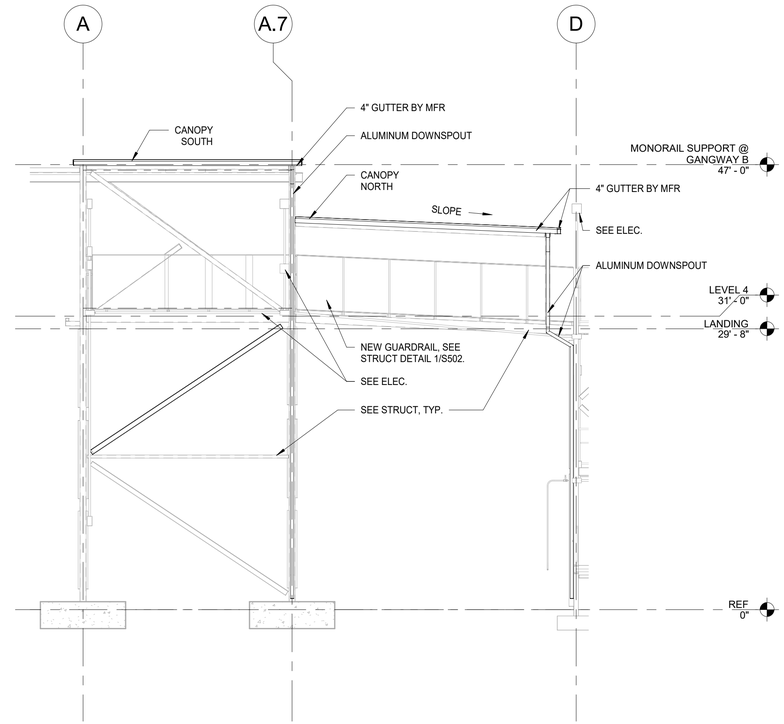
1 A201 SOUTHERN ELEVATION

SCALE: 1/8" = 1'-0"



2 A201 NORTHERN ELEVATION

SCALE: 1/8" = 1'-0"



3 A201 EASTERN ELEVATION

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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JAXPORT JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
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9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	SDP
DRAWN BY:	ALH
DESIGNED BY:	CMV

PROJECT NUMBER:
10014153000

SEAL:
STATE OF FLORIDA
CAROLINA M. VALLADARES
AR102352
REGISTERED ARCHITECT

SHEET TITLE:
ELEVATIONS

SHEET ID:
A201

PROJECT STATUS:
100% SUBMITTAL
FOR CONSTRUCTION

1/24/2025 2:04:13 PM Autodesk Docs://10014153019_DPMT CT GANGWAY MOD/10014153019_JAXPORT Cruise Gangway_S_R22.rvt

PROJECT NOTES

1. WHERE FOOTERS OR FOUNDATIONS ARE INSTALLED BY AUGERING OR DRILLING, SURVEY AND STAKE OR PAINT TO AN ACCURACY OF 0.1' PRIOR TO REQUESTING UTILITY LOCATES. STAKE OR PAINT THE CENTER OF EACH LOCATION AND CLEARLY LABEL WITH STATION, OFFSET, IDENTIFYING STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.
2. WHERE AUGERING OR DRILLING, EXCAVATE THE FIRST 4 FEET BY NON MECHANICAL AND NON DESTRUCTIVE MEANS.

PROJECT DESCRIPTION

1. PROJECT INCLUDES AN EXTENSION OF THE EXISTING GANGWAY ELECTRICAL POWER AND LOW-VOLTAGE SYSTEMS WITH LIKE-TO-LIKE CONSTRUCTION METHODS LARGELY INCLUDING UV-RESISTANT PVC CONDUIT BODIES AND BOXES AS A BASIS OF DESIGN.

INDEX OF ELECTRICAL PLANS

PLAN SYMBOLS

SURFACE MOUNTED CONDUIT WITHIN OPEN CEILING, AS INDICATED ON DRAWINGS.

(1)-1" UV RESISTANT SCHEDULE 40 PVC OR GREATER CONDUIT WITH TYPE THWN-2 CONDUCTORS INSIDE (CONDUIT AND CONDUCTOR SIZE AS SHOWN ON PLAN SHEETS) FOR ELECTRICAL FEEDER.

(1)-2" UV RESISTANT SCHEDULE 40 PVC OR GREATER CONDUIT WITH PULL CORD FOR PROPOSED CAMERAS. CONDUIT ROUTING INDICATED ON PLANS.

C — RECESSED IN-GRADE PRECAST PULL BOX (HANDHOLE) FOR FUTURE UNDERGROUND TELECOMMUNICATIONS AND WITH THE FOLLOWING NOMINAL INSIDE DIMENSIONS: 12" Wx24" Lx24" D. PULLBOX SHALL BE PROVIDED WITH BOLT DOWN CHECKERED STAINLESS STEEL LID IDENTIFIED AS "COMMUNICATIONS".

E — RECESSED IN-GRADE PRECAST PULL BOX FOR UNDERGROUND ELECTRIC AND WITH THE FOLLOWING NOMINAL INSIDE DIMENSIONS 24" Wx36" Lx24" D. PULLBOX SHALL BE PROVIDED WITH BOLT DOWN CHECKERED STAINLESS STEEL LID IDENTIFIED AS "ELECTRICAL".

J — ACCESSIBLE JUNCTION BOX

CONDUIT RISER (STUB-UP) AND UNDERGROUND TRANSITION

ELECTRIC MOTOR (FURNISHED BY OTHERS)

4 MPA — HOMERUN CIRCUIT. NUMBER REPRESENTS CIRCUIT DESIGNATION. LETTERS REPRESENT PANEL SOURCE.

SINGLE-POINT TERMINATION TO FURNISHED EQUIPMENT

SURFACE MOUNTED FUSED DISCONNECT

X / X-X — DETAIL CALLOUT

ONE-LINE SYMBOLS

TRANSFORMER

PANEL — PANELBOARD / LOAD CENTER

CIRCUIT BREAKER

FUSED DISCONNECT, SIZES AS INDICATED ON DRAWINGS

M — KILOWATT DEMAND METER

ELECTRIC MOTOR

G — GENERATOR

No / Nc — AUTOMATIC TRANSFER SWITCH (ATS)

GENERAL NOTES

1. ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
2. FLORIDA BUILDING CODE 2023, NFPA 70 NATIONAL ELECTRICAL CODE 2020, UNDERWRITERS LABORATORIES INC. PUBLICATIONS, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), INTERNATIONAL POWER CABLE ENGINEERS ASSOCIATION (IPCEA), NATIONAL ELECTRICAL SAFETY CODE, REQUIREMENTS OF LOCAL POWER CORPORATION, AMERICANS WITH DISABILITIES ACT (ADA), ADA STANDARDS FOR ACCESSIBLE DESIGN 2010, AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM), THE OCCUPATION SAFETY AND HEALTH ACT (OSHA),
3. IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND OTHER SERVICES AS MAY BE NECESSARY TO ACHIEVE THIS PRODUCT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS THAT WILL AFFECT THE WORK, PRIOR TO SUBMISSION OF HIS BID PRICE.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NATIONAL ELECTRICAL CODE. WIRE RACEWAYS, EQUIPMENT ENCLOSURES, AND ANY OTHER NON-CURRENT CARRYING METAL PARTS SHALL BE MECHANICALLY JOINED TOGETHER TO FORMA A CONTINUOUS CONDUCTING METALLIC PATH TO ASSURE ELECTRICAL CONTINUITY OF THE GROUNDING CIRCUIT. STRANDED COPPER BONDING JUMPER CABLES AND/OR GROUNDING WIRES SHALL BE INSTALLED WHERE REQUIRED.
5. LABELS SHALL BE PROVIDED FOR ALL RECEPTACLES AND LIGHTING SWITCHES, PROVIDE LABEL INDICATING PANEL NAME AND CIRCUIT NUMBER SERVING RECEPTACLES OR SWITCH. INSTALL LABEL NEAR BOTTOM PORTION OF COVER PLATE. LABELS SHALL BE MADE USING T&B E-Z-CODE LABEL PRINTER SOFTWARE OR EQUAL. LABELS SHALL BE MADE OF CLEAR SELF-LAMINATING VINYL WITH APPROXIMATE 1/8 INCH LETTERING, COLOR BLACK.
6. ALL ELECTRICAL ENCLOSURE AND PANELS SHALL BE CLEARLY MARKED AND EQUIPPED WITH ALL REQUIRED WARNING SIGNS. WIRING CONNECTED TO DIFFERENT VOLTAGE SOURCES SHALL BE CLEARLY MARKED WITH THE NAME AND LOCATION OF THE SOURCE. WARNING SIGNS INDICATING MULTIPLE VOLTAGE SOURCES SHALL BE PLACED IN THE PANELS. SEE NEC, ARTICLE 408 FOR REQUIREMENTS.
7. CONDUITS LEAVING OR ENTERING BUILDING SHALL BE SEALED PER NEC TO PREVENT ENTRANCE OF MOISTURE.
8. FOR 120 VOLT/20 AMP BRANCH CIRCUITS, CONTRACTOR SHALL PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR.
9. FOR 120 VOLT/20 AMP BRANCH CIRCUITS, CONTRACTOR SHALL NOT RUN MORE THAN THREE PHASE CONDUCTORS PLUS THREE NEUTRAL CONDUCTORS IN A SINGLE CONDUIT.
10. ALL EMPTY CONDUITS SHALL CONTAIN A POLYOLEFIN PULL LINE, JET #232 OR APPROVED EQUAL.
11. ALL WIRING AND CONDUIT SIZES SHALL BE BASED ON THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
12. ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN AND RATED FOR 600V UNLESS OTHERWISE INDICATED. TERMINATIONS SHALL BE RATED FOR 75 DEGREES C MINIMUM. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110-14(c) FOR EXACT EQUIPMENT BEING PROVIDED.
13. MINIMUM CONDUCTOR SIZE: ALL CIRCUIT HOMERUNS AND ALL CONDUIT-AND-WIRE CIRCUITS SHALL BE #12 AWG UNO ON THE DRAWINGS.
14. MINIMUM SIZE CONDUIT SHALL BE 3/4" DIAMETER UNO.
15. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 0-100 FEET FROM THE PANEL ARE TO HAVE #12 MINIMUM BRANCH CIRCUIT WIRING THROUGHOUT CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC).
16. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 101-175 FEET FROM THE PANEL ARE TO HAVE #10 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (3/4" C.) FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #12 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC). FIRST 75 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #10 WIRE. (3/4" C.)
17. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 176-225 FEET FROM THE PANEL ARE TO HAVE #10 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (3/4" C.) FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #10 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC)(3/4" C.)
18. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 226 FEET OR MORE FROM THE PANEL ARE TO HAVE #8 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (1" C.) FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #10 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC). FIRST 125 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #8 WIRE. (1" C.)
19. EXISTING CONDITIONS AND UTILITIES INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS, AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATION SHALL BE CONSIDERED A PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL UTILITIES, ETC. PRIOR TO BID AND INCLUDE ANY DEVIATION IN THE CONTRACT.
20. PROVIDE BARRIERS IN ALL RACEWAYS, WIREWAYS, ETC. FOR DIFFERENT VOLTAGES.
21. ALL EQUIPMENT SHALL BE FACTORY LISTED AS COMPLYING WITH APPLICABLE STANDARDS OF UNDERWRITER'S LABORATORIES INC. OR OTHER SIMILARLY ESTABLISHED STANDARDS OF A NATIONALLY RECOGNIZED TESTING LABORATORY THAT HAS BEEN CERTIFIED BY OSHA FOR THAT REFERENCE STANDARD.

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JAXPORT — JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY: LAS
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SEAL:
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SHEET TITLE:
ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET ID:
E001

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS

BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 - GENERAL

1.1 SUMMARY

A. DIVISION 26 OF THE SPECIFICATIONS COVERS ALL ELECTRICAL WORK FOR THE PROJECT. WORK SHALL INCLUDE LABOR, MATERIAL, AND ACCESSORIES REQUIRED TO ACCOMPLISH THE WORK.

1.2 SUBMITTALS

A. SHOP DRAWINGS AND PRODUCT DATA
   1. SHOP DRAWINGS SHALL BE SUBMITTED AS INDICATED UNDER EACH SECTION. PROVIDE DIMENSIONED PLANS AND SECTIONS OR ELEVATION LAYOUTS. INCLUDE SUFFICIENT INFORMATION TO INDICATE COMPLETE COMPLIANCE WITH THE SPECIFICATIONS.
   2. PRODUCT DATA: SHALL INCLUDE ILLUSTRATIONS, CATALOG SHEETS, INSTALLATION INSTRUCTIONS, DRAWINGS, AND CERTIFICATIONS AS NECESSARY. EACH SHEET SHALL SHOW MANUFACTURER'S NAME OR TRADEMARK.
   3. AT THE TIME OF EACH SUBMISSION, ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE OWNER IN WRITING, AND BE PLAINLY MARKED ON THE SHOP DRAWINGS AND PRODUCT DATA.
   4. WHERE CATALOG SHEETS SUBMITTED INCLUDE MULTIPLE PRODUCTS NOT DIRECTLY ASSOCIATED WITH THE SPECIFIED PROJECT, THE PRODUCTS SOLELY PERTAINING TO THE SPECIFIED PROJECT SHALL BE PLAINLY MARKED.

B. RECORD DRAWINGS:
   1. PROVIDE ONE COMPLETE SET OF CONTRACT DRAWINGS IN CLEAN, UNDAMAGED CONDITION, INDICATING ALL SIGNIFICANT CHANGES FROM THE WORK AS SHOWN. USE MULTIPLE PENCIL COLORS TO AID IN THE DISTINCTION BETWEEN WORK OF SEPARATE ELECTRICAL SYSTEMS. IN GENERAL, RECORD EVERY SUBSTANTIVE INSTALLATION OF ELECTRICAL WORK WHICH PREVIOUSLY IS EITHER NOT SHOWN OR FIELD MODIFIED.
      a. SHOW EXACT LOCATIONS OF UNDERGROUND CABLE AND CONDUITS INCLUDING PULL BOXES AND HANDHOLES, BOTH INTERIOR AND EXTERIOR, DRAWN TO SCALE AND FULLY DIMENSIONED FROM BUILDING COLUMN LINES.
      b. INDICATE MAINS AND BRANCHES OF WIRING SYSTEMS, WITH PANELBOARDS AND CONTROL DEVICES LOCATED AND NUMBERED. LOCATE DEVICES REQUIRING MAINTENANCE.

1.3 CODES, PERMITS, AND INSPECTIONS

A. INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATION IN EFFECT; WITH THE REGULATIONS OF THE INTERNATIONAL BUILDING CODE (IBC), NATIONAL ELECTRICAL SAFETY CODE, NATIONAL ELECTRICAL CODE (NEC, NFPA-70), OTHER APPLICABLE PUBLICATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, ALL LOCAL GOVERNING CODES AND ORDINANCES AND WITH THE REGULATIONS OF THE SERVING UTILITY COMPANY. PROVIDE REQUIRED PERMITS.

1.4 DEFINITIONS

A. EMT: ELECTRICAL METALLIC TUBING.

B. FMC: FLEXIBLE METAL CONDUIT.

C. IMC: INTERMEDIATE METAL CONDUIT.

D. LFMC: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

E. RGS: GALVANIZED RIGID STEEL CONDUIT.

1.5 QUALITY ASSURANCE

A. 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.

B. COMPLY WITH NFPA 70.

C. MANUFACTURERS' NAMES AND CATALOG NUMBERS
   1. IN SOME INSTANCES, SPECIFIC REFERENCES HAVE BEEN MADE TO ONE OR MORE MANUFACTURER'S NAMES AND MODEL OR CATALOG NUMBERS. USE OF NAMES AND CATALOG NUMBERS DOES NOT INDICATE THAT THE EQUIPMENT SPECIFIED IS NECESSARILY AN "OFF THE SHELF" ITEM. VARIANCES MAY BE DUE TO REQUIREMENT OF A DESIRED FINISH, MATERIAL, OR OTHER MODIFICATION.
   2. IN THE CASE OF PANELBOARDS, SAFETY SWITCHES AND OTHER EQUIPMENT REQUIRING WIRE AND CABLE TERMINATIONS, ASCERTAIN THAT LUG SIZES AND WIRING GUTTERS OR SPACE ALLOWED FOR PROPER ACCOMMODATION AND TERMINATION OF THE WIRES AND CABLES ARE ADEQUATE.

D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. EXACT LOCATIONS ARE SUBJECT TO APPROVAL BY OWNER, WHO RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN THE LOCATION INDICATED WITHOUT CHANGE IN CONTRACT AMOUNT.

1.6 COORDINATION

A. COORDINATE CHASES, SLOTS, INSERTS, SLEEVES, AND OPENINGS WITH GENERAL CONSTRUCTION WORK AND ARRANGE IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION TO FACILITATE THE ELECTRICAL INSTALLATIONS THAT FOLLOW.

B. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLING ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. COORDINATE INSTALLATION OF EQUIPMENT WITH OTHER TRADES.

C. COORDINATE THE INSTALLATION OF ALL LV CONDUIT CONNECTIONS WITH JAXPORT OWNERSHIP.

D. WHERE ELECTRICAL IDENTIFICATION DEVICES ARE APPLIED TO FIELD-FINISHED SURFACES, COORDINATE INSTALLATION OF IDENTIFICATION DEVICES WITH COMPLETION OF FINISHED SURFACE.

E. WHERE ELECTRICAL IDENTIFICATION MARKINGS AND DEVICES WILL BE CONCEALED BY ACOUSTICAL CEILINGS AND SIMILAR FINISHES, COORDINATE INSTALLATION OF THESE ITEMS BEFORE CEILING INSTALLATION.

1.7 PROTECTION OF ELECTRICAL EQUIPMENT

A. ELECTRICAL EQUIPMENT SHALL BE PROTECTED FROM THE WEATHER, IN PARTICULAR, DRIPPING OR SPLASHING WATER, AT ALL TIMES DURING SHIPMENT, STORAGE AND CONSTRUCTION. MANUFACTURER'S RECOMMENDATIONS WITH REGARD TO STORAGE AND PROTECTION SHALL BE FOLLOWED. SHOULD ANY APPARATUS BE SUBJECTED TO POSSIBLE DAMAGE BY WATER, IT SHALL BE THOROUGHLY DRIED AND PUT THROUGH A DIELECTRIC TEST, AT THE EXPENSE OF THE CONTRACTOR, TO ASCERTAIN THE SUITABILITY OF THE APPARATUS. OR IT SHALL BE REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.

B. DAMAGED OR DEFECTIVE EQUIPMENT: INSPECT ALL ELECTRICAL EQUIPMENT AND MATERIALS PRIOR TO INSTALLATION. DAMAGED EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED OR PLACED IN SERVICE. REPLACE OR REPAIR TO NEW CONDITION AND TEST REPAIRED EQUIPMENT IN COMPLIANCE WITH INDUSTRY STANDARDS AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT REQUIRED FOR THE TEST SHALL BE PROVIDED BY THE CONTRACTOR.

PART 2 - PRODUCTS

2.1 RACEWAYS

A. EMT: ANSI C80.3, ZINC-COATED STEEL, WITH SET-SCREW OR COMPRESSION FITTINGS. LIMITED USE EXPECTED.

B. FMC: ZINC-COATED STEEL.

C. IMC: ANSI C80.6, ZINC-COATED STEEL, WITH THREADED FITTINGS. LIMITED USE EXPECTED.

D. LFMC: ZINC-COATED STEEL, WITH SUNLIGHT-RESISTANT AND MINERAL-OIL-RESISTANT PLASTIC JACKET.
   1. MANUFACTURED BY HOFFMAN, SQUARE D, OR APPROVED EQUAL.
   2. MATERIAL AND CONSTRUCTION: SHEET METAL SIZED AND SHAPED AS INDICATED. NEMA 3R AND 4X.
   3. FITTINGS AND ACCESSORIES: INCLUDE COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD-DOWN STRAPS, END CAPS, AND OTHER FITTINGS TO MATCH AND MATE WITH WIREWAYS AS REQUIRED FOR COMPLETE SYSTEM.
   4. SELECT FEATURES, UNLESS OTHERWISE INDICATED, AS REQUIRED TO COMPLETE WIRING SYSTEM AND TO COMPLY WITH NFPA 70.
   5. FINISH: MANUFACTURER'S STANDARD ENAMEL FINISH.

E. PVC SCHEDULE 40: POLY (VINYL CHLORIDE), ATSM D 2466

F. RNC: NEMA TC 2, SCHEDULE 40 PVC, WITH NEMA TC3 FITTINGS.

G. RACEWAY FITTINGS: SPECIFICALLY DESIGNED FOR THE RACEWAY TYPE WITH WHICH USED.

2.2 CONDUCTORS

A. CONDUCTORS, NO. 10 AWG AND SMALLER: SOLID OR STRANDED COPPER.

B. CONDUCTORS, LARGER THAN NO. 10 AWG: STRANDED COPPER.

C. INSULATION: 600V, THWN-2

D. WIRE CONNECTORS AND SPLICES: UNITS OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS SUITABLE FOR SERVICE INDICATED.

2.3 BOXES, ENCLOSURES, AND CABINETS

A. SHEET MEAL OUTLET AND DEVICE BOXES: NEMA 3R.

B. CAST-METAL OUTLET AND DEVICE BOXES: NEMA 3R, TYPE FD, WITH GASKETED COVER.

C. SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA 3R.

D. CAST-METAL PULL AND JUNCTION BOXES: NEMA 3R, CAST PVC WITH GASKETED COVER UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

E. HINGED-COVER ENCLOSURES: NEMA 250, TYPE 4X, WITH CONTINUOUS HINGE COVER AND FLUSH LATCH.
   1. METAL ENCLOSURES: STEEL, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.

F. FINISH: FOR ENCLOSURE OR CABINET COMPONENTS, PROVIDE MANUFACTURER'S STANDARD COLOR PAINT APPLIED AFTER FABRICATION TO FACTORY-ASSEMBLED SURFACE RACEWAYS, ENCLOSURES, AND CABINETS BEFORE SHIPPING.

2.4 SUPPORTING DEVICES

A. MATERIAL: COLD-FORMED STEEL, WITH CORROSION-RESISTANT COATING ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

B. METAL ITEMS FOR USE OUTDOORS OR IN DAMP LOCATIONS: HOT-DIP GALVANIZED STEEL.

C. SLOTTED-STEEL CHANNEL SUPPORTS: FLANGE EDGES TURNED TOWARD WEB, AND 9/16 - INCH DIAMETER SLOTTED HOLES AT A MAXIMUM OF 2 INCHES O.C., IN WEBS.

D. SLOTTED-STEEL CHANNEL SUPPORTS:
   1. CHANNEL THICKNESS: SELECTED TO SUIT STRUCTURAL LOADING.
   2. FITTINGS AND ACCESSORIES: PRODUCTS OF THE SAME MANUFACTURER AS CHANNEL SUPPORTS.

E. NONMETALLIC CHANNEL AND ANGLE SYSTEMS: STRUCTURAL-GRADE, FACTORY-FORMED, GLASS-FIBER-RESIN CHANNELS AND ANGLES WITH 9/16 INCH DIAMETER HOLES AT A MAXIMUM OF 8 INCHES O.C., IN AT LEAST ONE SURFACE.
   1. FITTINGS AND ACCESSORIES: PRODUCTS OF THE SAME MANUFACTURER AS CHANNELS AND ANGLES.
   2. FITTINGS AND ACCESSORY MATERIALS: SAME AS CHANNELS AND ANGLES, EXCEPT METAL ITEMS MAY BE STAINLESS STEEL.

F. RACEWAY AND CABLE SUPPORTS: MANUFACTURED CLEVIS HANGERS, RISER CLAMPS, STRAPS, THREADED C-CLAMPS WITH RETAINERS, CEILING TRAPEZE HANGERS, WALL BRACKETS, AND SPRING-STEEL CLAMPS OR CLICK-TYPE HANGERS.

G. PIPE SLEEVES: ASTM A53, TYPE E, GRADE A, SCHEDULE 40, GALVANIZED STEEL, PLAIN ENDS.

H. EXPANSION ANCHORS: CARBON-STEEL WEDGE OR SLEEVE TYPE.

I. TOGGLE BOLTS: ALL-STEEL SPRINGHEAD TYPE.

J. POWDER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL.

2.5 ELECTRICAL IDENTIFICATION

A. IDENTIFICATION DEVICES: A SINGLE TYPE OF IDENTIFICATION PRODUCT FOR EACH APPLICATION CATEGORY. USE COLORS PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.

B. RACEWAY AND CABLE LABELS: COMPLY WITH ANSI 13.1 TABLE 3, FOR MINIMUM SIZE OF LETTERS FOR LEGEND AND MINIMUM LENGTH OF COLOR FIELD FOR EACH RACEWAY AND CABLE SIZE.

C. COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK.

D. TAPE MARKERS FOR WIRE: VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.

E. ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. AND 1/8-INCH MINIMUM THICKNESS FOR LARGER SIZES. LABELS SHALL BE COLOR CODED ACCORDING TO SERVICE/USE OR VOLTAGE AS SCHEDULED HEREIN. LETTERS SHALL BE ENGRAVE, 5/32-INCH HIGH AND ALL CAPITALS.

SERVICE	SURFACE COLOR	LETTER COLOR
POWER: 480 V	WHITE	BLACK
POWER 240 V (208 V)	YELLOW	BLACK
SECURITY	GREEN	WHITE OR YELLOW
TELEVISION/VIDEO	PURPLE	WHITE

F. INTERIOR WARNING AND CAUTION SIGNS: COMPLY WITH 29 CFR, CHAPTER XVII, PART 1910.145. PREPRINTED, ALUMINUM, BAKED-ENAMEL-FINISH SIGNS, PUNCHED OR DRILLED FOR MECHANICAL FASTENERS, WITH COLORS, LEGEND, AND SIZE APPROPRIATE TO THE APPLICATION.

G. FASTENERS FOR NAMEPLATES AND SIGNS: SELF-TAPING, STAINLESS-STEEL SCREWS OR NO. 10/32 STAINLESS-STEEL MACHINE SCREWS WITH NUTS AND FLAT AND LOCK WASHERS.

H. RECEPTACLES: TRANSPARENT, VINYL OR MYLAR, ADHESIVE-BACKED LABELS HAVING MACHINE PRINTING WITH BLACK NUMBERS AND LETTERS.

2.6 TOUCHUP PAINT

A. FOR EQUIPMENT: EQUIPMENT MANUFACTURER'S PAINT SELECTED TO MATCH INSTALLED EQUIPMENT FINISH.

PART 3 - EXECUTION

3.1 ELECTRICAL EQUIPMENT INSTALLATION

A. HEADROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM.

B. MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.

C. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.

D. RIGHT OF WAY: GIVE RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE.

E. WORKING CLEARANCE: WORKING CLEARANCES AROUND EQUIPMENT REQUIRING ELECTRICAL SERVICE SHALL COMPLY WITH NEC REQUIREMENTS. NOTIFY THE OWNER OF VIOLATIONS BEFORE PROCEEDING WITH CONNECTION OR PLACEMENT OF EQUIPMENT.

3.2 RACEWAY APPLICATION

A. USE THE FOLLOWING RACEWAYS FOR OUTDOOR INSTALLATIONS:
   1. EXPOSED: RGS / PVC.
   2. CONNECTION TO VIBRATING EQUIPMENT: LFMC.
   3. BOXES AND MWW: NEMA 250, TYPE 4X, UNLESS OTHERWISE SPECIFIED
   4. ENCLOSURES: NEMA 250, TYPE 4X, UNLESS OTHERWISE SPECIFIED

B. USE THE FOLLOWING RACEWAYS FOR INDOOR INSTALLATIONS:
   1. EXPOSED: RGS.
   2. CONCEALED: RGS.
   3. CONNECTION TO VIBRATING EQUIPMENT: FMC; EXCEPT IN WET OR DAMP LOCATIONS, USE LFMC.
   4. DAMP OR WET LOCATIONS: IMC OR LFMC.
   5. BOXES, SMR, AND ENCLOSURES: NEMA 250, TYPE 1, UNLESS OTHERWISE INDICATED.

C. MINIMUM RACEWAY SIZE: FOR POWER AND CONTROL: 3/4-INCH TRADE SIZE. FOR TELECOMMUNICATIONS (COMM): 3/4-INCH TRADE SIZE.

3.3 RACEWAY AND CABLE INSTALLATION

A. INSTALL RACEWAYS AND CABLES AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. LOCATE HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.

B. USE TEMPORARY RACEWAY CAPS TO PREVENT FOREIGN MATTER FROM ENTERING.

C. MAKE CONDUIT BENDS AND OFFSETS SO INTERIOR DIAMETER IS NOT REDUCED. KEEP LEGS OF BENDS IN THE SAME PLANE AND STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.

D. USE RACEWAY AND CABLE FITTINGS COMPATIBLE WITH RACEWAYS AND CABLES AND SUITABLE FOR USE AND LOCATION.
   1. USE INSULATING BUSHINGS TO PROTECT CONDUCTORS.

E. INSTALL RACEWAYS EMBEDDED IN SLABS IN MIDDLE THIRD OF SLAB THICKNESS WHERE PRACTICAL, AND LEAVE AT LEAST 1-INCH CONCRETE COVER.
   1. SECURE RACEWAYS TO REINFORCING RODS TO PREVENT SAGGING OR SHIFTING DURING CONCRETE PLACEMENT.
   2. SPACE RACEWAYS LATERALLY TO PREVENT VOIDS IN CONCRETE.
   3. INSTALL CONDUIT LARGER THAN 1-INCH TRADE SIZE PARALLEL TO OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE CONDUIT IS AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT.
   4. TRANSITION FROM NONMETALLIC CONDUIT TO RIGID STEEL CONDUIT OR IMC BEFORE RISING ABOVE GRADE.
   5. MAKE BENDS IN EXPOSED PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR EXPOSED PARALLEL RACEWAYS.

F. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 2 FEET OF SLACK AT EACH END OF THE PULL WIRE.

G. INSTALL CCTV RACEWAYS, 2-INCH TRADESIZE AND SMALLER, IN MAXIMUM LENGTHS OF 150 FEET (INDOOR), 325 (OUTDOOR) AND WITH A MAXIMUM OF TWO 90-DEGREE BENDS OR EQUIVALENT. SEPARATE LENGTHS WITH PULL BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS, IN ADDITION TO REQUIREMENTS ABOVE.

H. CONNECT MOTORS AND EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT WITH A MAXIMUM OF 72-INCH FLEXIBLE CONDUIT. INSTALL LFMC IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

I. INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
   1. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON.
   2. MAKE PARALLEL BENDS IN PARALLEL OR BANKED RUNS. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR PARALLEL RACEWAYS.

J. TERMINATIONS:
   1. WHERE RACEWAYS ARE TERMINATED WITH LOCKNUTS AND BUSHINGS, ALIGN RACEWAYS TO ENTER SQUARELY AND INSTALL LOCKNUTS WITH DISHED PART AGAINST BOX. USE TWO LOCKNUTS, ONE INSIDE AND ONE OUTSIDE BOX.
   2. WHERE RACEWAYS ARE TERMINATED WITH THREADED HUBS, SCREW RACEWAYS OR FITTINGS TIGHTLY INTO HUB SO END BEARS AGAINST WIRE PROTECTION SHOULDER. WHERE CHASE NIPPLES ARE USED, ALIGN RACEWAYS SO COUPLING IS SQUARE TO BOX; TIGHTEN CHASE NIPPLE SO NO THREADS ARE EXPOSED.

K. SURFACE RACEWAYS: INSTALL A SEPARATE, GREEN GROUND CONDUCTOR IN RACEWAYS FROM JUNCTION BOX SUPPLYING RACEWAYS TO RECEPTACLE OR FIXTURE GROUND TERMINALS.

L. INSTALL HINGED-COVER ENCLOSURES AND CABINETS PLUMB. SUPPORT AT EACH CORNER.

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JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
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REVISIONS

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REVIEWED BY:	LAS
DRAWN BY:	TKH
DESIGNED BY:	LAS

PROJECT NUMBER:
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SEAL:
LUKE SENKO
LICENSE
No. 93571
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

SHEET ID:
E002

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS

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3.4 WIRING INSTALLATION

A. INSTALL SPLICES AND TAPS THAT ARE COMPATABLE WITH CONDUCTOR MATERIAL AND THAT POSSESEQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.

B. INSTALL WIRING AT OUTLLETS WITH AT LEAST 12 INCHES OF SLACJ CONDUCTOR AT EACH OUTLET.

C. CONNECT OUTLET AND COMPONENT CONNECTIONS TO WIRING SYSTEMS AND TO GROUND. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A.

3.5 WIRING DEVICED INSTALLATION

A. INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.

B. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A.

3.6 ELECTRICAL SUPPORTING DEVICE APPLICATION

A. DAMP LOCATIONS AND OUTDOORS: HOT-DIP GALVANIZED MATERIALS OR NONMETALLIC, U-CHANNEL SYSTEM COMPONENTS.

B. DRY LOCATIONS: STEEL MATERIALS.

C. SUPPORT CLAMPS FOR PVC RACEWAYS: CLICK-TYPE CLAMP SYSTEM.

D. SELECTION OF SUPPORTS: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

E. STRENGTH OF SUPPORTS: ADEQUATE TO CARRY PRESENT AND FUTURE LOADS, TIMES A SAFETY FACTOR OF AT LEAST FOUR; MINIMUM OF 500-LB DESIGN LOAD, UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

3.7 SUPPORT INSTALLATION

A. INSTALL SUPPORT DEVICES TO SECURELY AND PERMANENTLY FSTEN AND SUPPORT ELECTRICAL COMPONENTS.

B. INSTALL INDIVIDUAL AND MULTIPLE RACEWAY HANGERS AND RISER CLAMPS TO SUPPORT RACEWAYS. PROVIDE U-BOLTS, CLAMPS, ATTACHMENTS, AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLIES AND FOR SECURING HANGER RODS AND CONDUITS.

C. SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE- OR BRACKET-TYPE HANGERS.

D. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS WITH SEPARATE, MALLEABLE-IRON PIPE HANGERS OR CLAMPS.

E. INSTALL 1/4-INCH DIAMETER OR LARGER THREADED STEEL HANGER RODS, UNLESS OTHERWISE INDICATED.

F. SPRING-STEEL FASTENERS SPECIFICALLY DESIGN FOR SUPPORTING SINGLE CONDUITS OR TUBING MAY BE USED INSTEAD OF MALLEABLE-IRON HANGERS FOR 1-1/2-INCH AND SMALLER RACEWAYS TO SLOTTED CHANNEL AND ANGLE SUPPORTS.

G. ARRANGE SUPPORTS IN VERTICAL RUNS SO THE WEIGHT OF RACEWAYS AND ENCLOSED CONDUCTORS IS CARRIED ENTIRELY BY RACEWAY SUPPORTS, WITH NO WEIGHT LOAD ON RACEWAY TERMINALS.

H. SIMULTANEOUSLY INSTALL VERTICAL CONDUCTOR SUPPORTS WITH CONDUCTORS.

I. INSTALL METAL CHANNEL RACKS FOR MOUNTING CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSERS, PULL AND JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES UNLESS COMPONENTS ARE MOUNTED DIRECTLY TO STRCTURAL ELEMENTS OF ADEQUATE STRENGTH.

J. INSTALL SLEEVES FOR CABLE AND RACEWAY PENETRATIONS OF CONCRETE SLABS AND WALLS UNLESS CORE-DRILLED HOLES ARE USED. INSTALL SLEEVES FOR CABLE AND REACEWAY PENETRATIONS OF MASONRY AND FIRE-RATED GYPSUM WALLS AND OF ALL OTHER FIRE-RATED GYPSUM WALLS AND OF ALL OTHER FIRE-RATED FLOOR AND WALL ASSEMBLIES. INSTALL SLEECES DURING ERECTION OF CONCRETE AND MASONRY WALLS.

K. SECURELY FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO THE BUILDING STRUCTURE, UNLESS OTHERWISE INDICATED. PERFORM FASTENING ACCORDING TO THE FOLLOWING UNLESS OTHER FASTENING METHODS ARE INDICATED:

1. WOOD: FASTEN WITH WOOD SCREWS OR SCREW-TYPE NAILS.
2. MASONRY: TOGGLE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION BOLTS ON SILID MASONRY UNITS.
3. NEW CONCRETE: CONCRETE INSERTS WITH MACHINE SCREWS AND BOLTS.
4. INSTEAD OF EXPANSION BOLTS, THREADED STUDS DRIVEN BY A POWDER CHARGE AND PROVIDED WITH LOCK WASHERS MAY BE USED IN EXISTING CONCRETE.
5. STEEL: WELDED THREADED STUDS OR SPRING-TENSION CLAMPS ON STEEL.
   a. FIELD WELDING: COMPLY WITH AWS D1.1.
6. WELDING TO STEEL STRUCTURE MAY BE USED ONLY FOR THGREADED STUDS, NOT FOR CONDUITS, PIPE STRAPS, OR OTHER ITEMS.
7. LIGHT STEEL: SHEET-METAL SCREWS.
8. FASTNERS: SELECT SO THE LOAD APPLIED TO EACH FASTNER DOES NOT EXCEED 25 PERCENT OF ITS PROOF-TEST LOAD.

3.8 IDENTIFICATION MATERIALS AND DEVICES

A. INSTALL AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MATENANCE OF EQUIPMENT.

B. COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDIND DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUR PROJECT.

C. SELF-ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLYING.

D. IDENTIFY RACEWAYS AND CABLES WITH COLOR BANDING AS FOLLOWS:

1. BANDS: PRETENSIONED, SNAP-AROUND, COLORED PLASTIC SLEEVES OR COLORED ADHESIVE MARKING TAPE. MAKE EACH COLOR BAND 2 INCHES WIDE, COMPLETELY ENCIRCLING CONDUIT, AND PLACE ADJACENT BANDS OF TWO-COLOR MARKINGS IN CONTACT, SIDE BY SIDE.
2. BAND LOCATIONS: AT CHANGES IN DIRECTION, AT PENETRATIONS OF WALLS AND FLOORS, AT 50-FOOT MAXIMUM INTERVALS IN STRAIGHT RUNS, AND AT 25-FOOT MAXIMUM INTERVALS IN CONGESTED AREAS.
3. COLORS: AS FOLLOWS:
   a. SECURITY SYSTEM: GREEN AND YELLOW.

   TELECOMMUNICATION SYSTEM: ORANGE.

E. TAG AND LABEL CIRCUITS DESIGNATED TO BE EXTENDED IN THE FUTURE. IDENTIFY SOURCE AND CIRCUIT NUMBERS IN EACH CABINET, PULL AND JUNCTION BOX, AND OUTLET BOX. COLOR-CODING SHALL BE USED FOR VOLTAGE AND PHASE IDENTIFICATION.

F. INSTALL CONTINUOUS UNDERGROUND PLASTIC MARKERS DURING TRENCH BACKFILLING, FOR EXTERIOR UNDERGROUND POWER, CONTROL, SIGNAL, AND COMMUNICATION LINES LOCATED DIRECTLY ABOVE POWER AND COMMUNICATION LINES. LOCATE 6 TO 8 INCHES BELOW FINISHED GRADE. IF WIDTH OF MULTIPLE LINES INSTALLED IN A COMMON TRENCH OR CONCRETE ENVELOPE DOES NOT EXCEED 16 INCHES, OVERALL, USE A SINGLE LINE MARKER.

G. USE THE FOLLOWING COLORS FOR CODING:

	208V	240V	480V	EQUIPMENT PHASE SEQUENCE
1. PHASE A:	BLACK	BLACK	BROWN	ABC, TOP TO BOTTOM, LEFT TO RIGHT, FRONT TO BACK
2. 3. PHASE B:	RED	RED	ORANGE	
4. PHASE C:	BLUE		YELLOW	
5. NEUTRAL:	WHITE	WHITE	GREY	
	GROUND CONDUCTOR - GREEN			

H. INSTALL WARNING, CAUTION, AND INSTRUCTION SIGNS WHERE REQUIRED TO COMPLY WITH 29 CFR, CHAPTER XVII, PART 1910.145, AND WHERE NEEDED TO ENSURE SAFE OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND OF ITEMS TO WHICH THEY CONNECT. INSTALL ENGRAVED PLASTIC-LAMINATED INSTRUCTIONS ARE NEEDED FOR SYSTEM OR EQUIPMENT OPERATION. INSTALL METAL-BACKED BUTYRATE SIGNS FOR OUTDOOR ITEMS.

I. RECEPTACLE: IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH SERVED.

3.9 UTILITY COMPANY ELECTRICITY-METERING EQUIPMENT

A. INSTALL EQUIPMENT ACCORDING TO UTILITY COMPANY'S WRITTEN REQUIREMENTS. PROVIDE GROUNDING AND EMPTY CONDUITS AS REQUIRED BY UTILITY COMPANY.

3.10 FIRESTOPPING

A. APPLY FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO ACHIECE FIRE-RESISTANCE RATING OF THE ASSEMBLY.

3.11 CONCRETE BASES

A. CONSTRUCT CONCRETE BASES OF DIMENSIONS INDICATED, BUT NOT LESS THAN 4 INCHES LARGER, IN BOTH DIRECTIONS, THAN SUPPORTED UNIT. FOLLOW SUPPOERTED EQUIPMENT MANUFACTURER'S ANCHORAGE RECOMMENDATIONNS AND SETTING TEMPLATES FOR ANCHOR-BOLT AND TIE LOCATIONS, UNLESS OTHERWISE INDICATED. USE 3000-PSI, 28-DAY COMPRESSIVE-STRENGTH CONCRETE AND REINFORCEMENT.

3.12 CUTTING AND PATCHING

A. CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.

B. REPAIR AND REFINISH DISTRIBUTED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. INSTALL NEW FIREPROOFING WHERE EXISTING FIRESTOPPING HAS BEEN DISTURBED. REPAIR AND REFINISH MATERIALS AND OTHER SURFACES BY SKILLED MECHANICS OF TRADES INVOLVED.

3.13 FIELD QUALITY CONTROL

A. INSPECT INSTALLED COMPONENTS FOR DAMAGE AND FAULTY WORK, INCLUDING THE FOLLOWING:

1. RACEWAYS.
2. BUILDING WIRE AND CONNECTORS.
3. SUPPORTING DEVICES FOR ELECTRICAL COMPONENTS.
4. ELECTRICAL IDENTIFICATION.
5. CONCRETE BASES.
6. CUTTING AND PATCHING FOR ELECTRICAL CONSTRUCTION.
7. TOUCHUP PAINTING.

A. PERFORM THE FOLLOWING FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:

1. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
2. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. REMOVE MALFUNCTIONING UNITS, REPLACE WITH NEW UNITS, AND RETEST AS SPECIFIED ABOVE.

3.14 REFINISHING AND TOUCHUP PAINTING

A. REFINISH AND TOUCH UP PAINT.

1. CLEAN DAMAGED AND DISTRIBUTED ARES AND APPLY PRIMER, INTERMEDIATE, AND FINISH COATS TO SUIT THE DEGREE OF DAMAGE AT EACH LOCATION.
2. FOLLOW PAINT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION AND FOR TIMING AND APPLICATION OF SUCCESSIVE COATS.
3. REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH PAINT RECOMMENDED BY MANUFACTURER.
4. REPAIR DAMAGE TO PVC OR PAINT FINISHES WITH MATCHING TOUCHUP COATING RECOMMENDED BY MANUFACTURER.

ENCLOSED SWITCHES AND CIRCUIT BREAKERS

3.15 CLEANING AND PROTECTION

A. ON COMPLETION OF INSTALLATION, INCLUDING OUTLETS, FITTINGS, AND DEVICES, INSPECT EXPOSED FINISH. REMOVE BURRS, DIRT, APINT SPOTS, AND CONSTRUCTION DEBRIS.

B. PROTECT EQUIPMENT AND INSTALLATION AND MAINTAIN CONDITIONS TO ENSURE THAT COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

END OF BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 – GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING INDIVIDUALLY MOUNTED, ENCLOSED SWITCHES AND CIRCUIT BREAKERS:

1. FUSIBLE SWITCHES.
2. NONFUSIBLE SWITCHES.
3. MOLDED-CASE CIRCUIT BREAKER SWITCHES.
4. ENCLOSURES.

1.2 DEFINITIONS

A. GD: GENERAL DUTY.

B. GFCI: GROUND-FAULT CIRCUIT INTERRUPTER.

C. HD: HEAVY DUTY.

D. RMS: ROOT MEAN SQUARE.

E. SPDT: SINGLE POLE, DOUBLE THROW.

1.3 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF ENCLOSED SWITCH, CIRCUIT BREAKER, ACCESSORY, AND COMPONENT INDICATED. INCLUDE DIMENSIONED ELEVATIONS, SECTIONS, WEIGHTS, AND MANUFACTURERS' TECHNICAL DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, AND FINISHES.

1. ENCLOSURE TYPES AND DETAILS.
2. CURRENT AND VOLTAGE RATINGS.
3. SHORT-CIRCUIT CURRENT RATING.
4. FEATURES, CHARACTERISTICS, RATINGS, AND FACTORY SETTINGS OF INDIVIDUAL OCERCURRENT PROTECTIVE DEVICES AND AUXILIARY COMPONENTS.

B. SHOP DRAWINGS: DIAGRAM POWER, SIGNAL, AND CONTROL WIRING

C. FIELD QUALITY-CONTROL TEST REPORTS INCLUDING THE FOLLOWING:

1. TEST PROCEDURES USED.
2. TEST RESULTS THAT COMPLY WITH REQUIREMENTS.
3. RESULTS OF FAILED TESTS AND CORRECTIVE ACTION TAKEN TO ACHIEVE TEST RESULTS THAT COMPLY WITH REQUIREMENTS.

D. OPERATION AND MAINTENANCE DATA: FOR ENCLOSED SWITCHES AND CIRCUIT BREAKERS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS. INCLUDE THE FOLLOWING:

1. MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TESTING AND ADJUSTING ENCLOSED SWITCHES AND CIRCUIT BREAKERS.
2. TIME-CURRENT CURVES, INCLUDING SELECTABLE RANGES FORE EACH TYPE OF CIRCUIT BREAKER.

1.4 QUALITY ASSURANCE

A. 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.

B. COMPLY WITH NFPA 70.

C. PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE MAXIMUM DIMENSIONS FOR ENCLOSED SWITCHES AND CIRCUIT BREAKERS, INCLUDING CLEARANCES BETWEEN ENCLOSURES, AND ADJACENT SURFACES AND OTHER ITEMS. COMPLY WITH INDICATED MAXIMUM DIMENSIONS.

1.5 COORDINATION

A. COORDINATE LAYOUT AND INSTALLATION OF SWITCHES, CIRCUIT BREAKERS, AND COMPONENTS WITH OTHER CONSTRUCTION, INCLUDING CONDUIT, PIPING, EQUIPMENT, AND ADJACENT SURFACES. MAINTAIN REQUIRED WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE MANUFACTURERS SPECIFIED.

1. EATON CORPORATION; CUTLER-HAMMER PRODUCTS.
2. GENERAL ELECTRICAL CO.; ELECTRICAL DISTRIBUTION & CONTROL DIVISION.
3. SQUARE D/GROUP SCHNEIDER.

2.2 FUSIBLE AND NONFUSIBLE SWITCHES

A. FUSIBLE SWITCH, 600A AND SMALLER: NEMA KS 1, TYPE HD, WITH CLIPS OR BOLT PADS TO ACCOMMODATE SPECIFIED FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

B. NONFUSIBLE SWITCH, 600A AND SMALLER: NEMA KS 1, TYPE HD, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

C. ACCESSORIES:

1. EQUIPMENT GROUND KIT: INTERNALLY MOUNTED AND LABELED FOR COPPER AND ALUMINUM GROUND CONDUCTORS.
2. NEUTRAL KIT: INTERNALLY MOUNTED; INSULATED, CAPABLE OF BEING GROUNDED, AND BONDED; AND LABELED FOR COPPER AND ALUMINUM NEUTRAL CONDUCTORS.

2.3 MOLDED-CASE CIRCUIT BREAKERS AND SWITCHES

A. MOLDED-CASE CIRCUIT BREAKER: NEMA AB 1, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.

1. THERMAL-MAGNETIC CIRCUIT BREAKERS: INVERSE TIME-CURRENT ELEMENT FOR LOW-LEVEL OVERLOADS AND INSTANTANEUOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS. ADJUSTABLE MAGNETIC TRIP SETTING FOR CIRCUIT-BREAKER FRAME SIZES 250 A AND LARGER.

B. MOLDED-CASE CIRCUIT-BREAKER FEATURES AND ACCESSORIES:

1. STANDARD FRAME SIZES, TRIP RATINGS, AND NUMBER OF POLES.
2. LUGS: MECHANICAL STYLE SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND CONDUCTOR MATERIAL.
3. APPLICATION LISTING: TYPE HACR FOR HEATING, AIR-CONDITIONING, AND REFRIGERATING EQUIPMENT.

C. MOLDED-CASE SWITCHES: MOLDED-CASE CIRCUIT BREAKER WITH FIXED, HIGH-SET INSTANTANEOUS TRIP ONLY, AND SHORT-CIRCUIT WITHSTAND RATING EQUAL TO EQUIVALENT BREAKER FRAME SIZE INTERRUPTING RATING.

D. MOLDED-CASE SWITCH ACCESSORIES:

1. LUGS: MECHANICAL STYLE SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND MATERIAL OF CONDUCTORS.
2. APPLICATION LISTING: TYPE HACR FOR HEATING, AIR-CONDITIONING, AND REFRIGERATING EQUIPMENT.

2.4 ENCLOSURES

A. NEMA AB 1 ABD BENA JS 1 TO MEET ENVIRONMENTAL CONDITIONS OF INSTALLED LOCATION.

1. INDOOR LOCATIONS: NEMA 250, TYPE 1.
2. OUTDOOR LOCATIONS: NEMA 250, TYPE 4X.

PART 3 – EXECUTION

3.1 EXAMINATION

A. EXAMINE ELEMENTS AND SURFACES TO RECEIVE ENCLOSED SWITCHES AND CIRCUIT BREAKERS FR COMPLIANCE WITH INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE.

B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION

A. COMPLY WITH APPLICABLE PORTIONS OF NECA 1, NEMA PB 1.1, AND NEMA PB 2.1 FOR INSTALLATION OF ENCLOSED SWITCHES AND CIRCUIT BREAKERS.

B. MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES AND CIRCUIT BREAKERS WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.

3.3 IDENTIFICATION

A. IDENTIFY FIELD-INSTALLED CONDUCTORS, INTERCONNECTING WIRING, AND COMPONENTS; PROVIDEWARNING SIGNS ACCORDING TO BASIC ELECTRICAL MATERIALS AND METHODS.

B. ENCLOSURE NAMEPLATES: LABEL EACH ENCLOSURE WITH ENGRAVED LAMINATED-PLASTIC NAMEPLATE ACCORDING TO BASIC ELECTRICAL MATERIALS AND METHODS. LABEL SHALL INCLUDE, EACH ON A SEPARATE LINE OF TEXT, THE EQUIPMENT NAME AND NUMBER; VOLTAGE; AND SOURCE OF POWER. (FOR EXAMPLE: CU-1, 208V, CKT A-7)

3.4 FIELD QUALITY CONTROL

A. PREPARE FOR ACCEPTANCE TESTING AS FOLLOWS:

1. INSPECT MECHANICAL AND ELECTRICAL CONNECTIONS.
2. VERIFY SWITCH AND RELAY TYPE AND LABELING VERIFICATION.
3. VERIFY RATING OF INSTALLED FUSES.
4. INSPECT PROPER INSTALLATION OF TYPE, SIZE, QUANTITY, AND ARRANGEMENT OF MOUNTING OR ANCHORAGE DEVICES COMPLYING WITH MANUFACTURER'S CERTIFICATION.

B. PERFORM THE FOLLOWING FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:

1. PERFORM EACH ELECTRICAL TEST INCLUDING VISUAL AND MECHANICAL INSPECTION STATED IN NETA ATS, SECTION 7.5 FOR SWITCHES AND SECTION 7.6 FOR MOLDED-CASE CIRCUIT BREAKERS. CERTIFY COMPLIANCE WITH TEST PARAMETERS.
2. CORRECT MALFUNCTIONING UNITS ON-SITE, WHERE POSSIBLE, AND RETEST TO DEMONSTATE COMPLIANCE; OTHERWISE, REPLACE IN-KIND WITH NEW UNITS AND RETEST.

3.5 CLEANING

A. ON COMPLETION OF INSTALLATION, VACUUM DIRT AND DEBRIS FROM INTERIORS; DO NOT USE COMPRESSED AIR TO ASSIST IN CLEANING.

B. INSPECT EXPOSED SURFACES AND REPAIR DAMAGED FINISHES. END OF ENCLOSED SWITCHES AND CIRCUIT BREAKERS

FUSES

PART 1 – GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:

1. CARTRIDGE FUSES RATED 600 V AND LESS FOR USE IN SWITCHES.

1.2 SUBMITTALS

A. PRODUCT DATA: INCLUDE THE FOLLOWING FOR EACH FUSE TYPE INDICATED:

1. DIMENSIONS AND MANUFACTURER'S TECHNICAL DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, AND RATINGS.
2. LET-THROUGH CURRENT CURVES FOR FUSES WITH CURRENT-LIMITING CHARACTERISTICS.
3. TIME-CURRENT CURVES, COORDINATION CHARTS AND TABLES, AND RELATED DATA.

B. AMBIENT TEMPERATURE ADJUSTMENT INFORMATION: IF RATINGS OF FUSES HAVE BEEN ADJUSTED TO ACCOMMODATE AMBIENT TEMPERATURES, PROVIDE LIST OF FUSES WITH ADJUSTED RATINGS.

1. FOR EACH FUSE HAVING ADJUSTED RATINGS, INCLUDE LOCATION OF FUSE, ORIGINAL FUSE RATING, LOCAL AMBIENT TEMPERATURE, AND ADJUSTED FUSE RATING.
2. PROVIDE MANUFACTURER'S TECHNICAL DATA ON WHICH AMBIENT TEMPERATURE ADJUSTMENT CALCULATIONS ARE BASED AND REQUIRED.

1.3 QUALITY ASSURANCE

A. SOURCE LIMITATIONS: OBTAIN FUSES FROM A SINGLE MANUFACTURER.

B. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTACBLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

C. COMPLY WITH NEMA FU 1.

D. COMPLY WITH NFPA 70.

1.4 COORDINATION

A. COORDINATE FUSE RATINGS WITH UTILIZATION EQUIPMENT NAMEPLATE LIMITATIONS OF MAXIMUM FUZE SIZE.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. COOPER BUSSMAN, INC.
2. EAGLE ELECTRIC MFG. CO., INC.; COOPER INDUSTRIES, INC.
3. FERRAZ SHAWMUT, INC.
4. TRACOR, INC.; LITTLEFUSE, INC. SUBSIDIARY.

2.2 CARTRIDGE FUSES

A. CHARACTERISTICS: NEMA FU 1, NONRENEWABLE CARTIDGE FUSE; CLASS AND CURRENT RATING INDICATED; VOLTAGE RATING CONSISTENT WITH CIRCUIT VOLTAGE.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE UTILIZATION EQUIPMENT NAMEPLATES AND INSTALLATION INSTRUCTIONS. INSTALL FUSES OF SIZES AND WITH CHARACTERISTICS APPROPRIATE FOR EACH PIECE OF EQUIPMENT.

B. EVALUATE AMBIENT TEMPERATURES TO DETERMINE IF FUSE RATING ADJUSTMENT FACTORS MUST BE APPLIED TO FUSE RATINGS.

C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED

3.2 FUSE APPLICATIONS

A. MOTOR BRANCH CIRCUITS: CLASS RK5, TIME DELAY.

B. OTHER BRANCH CIRCUITS: CLASS RK5, TIME DELAY.

3.3 INSTALLATION

A. INSTALL FUSES IN FUSBILE DEVICES. ARRANGE FUSES SO RATING INFORMATION IS VISIBLE WITHOUT REMOVING FUSE.

3.4 IDENTIFICATION

A. INSTALL LABELS INDICATING FUSE REPLACEMENT INFORMATION ON INSIDE DOOR OF EACH FUSED SWITCH.

END OF FUSES

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	LAS
DRAWN BY:	TKH
DESIGNED BY:	LAS

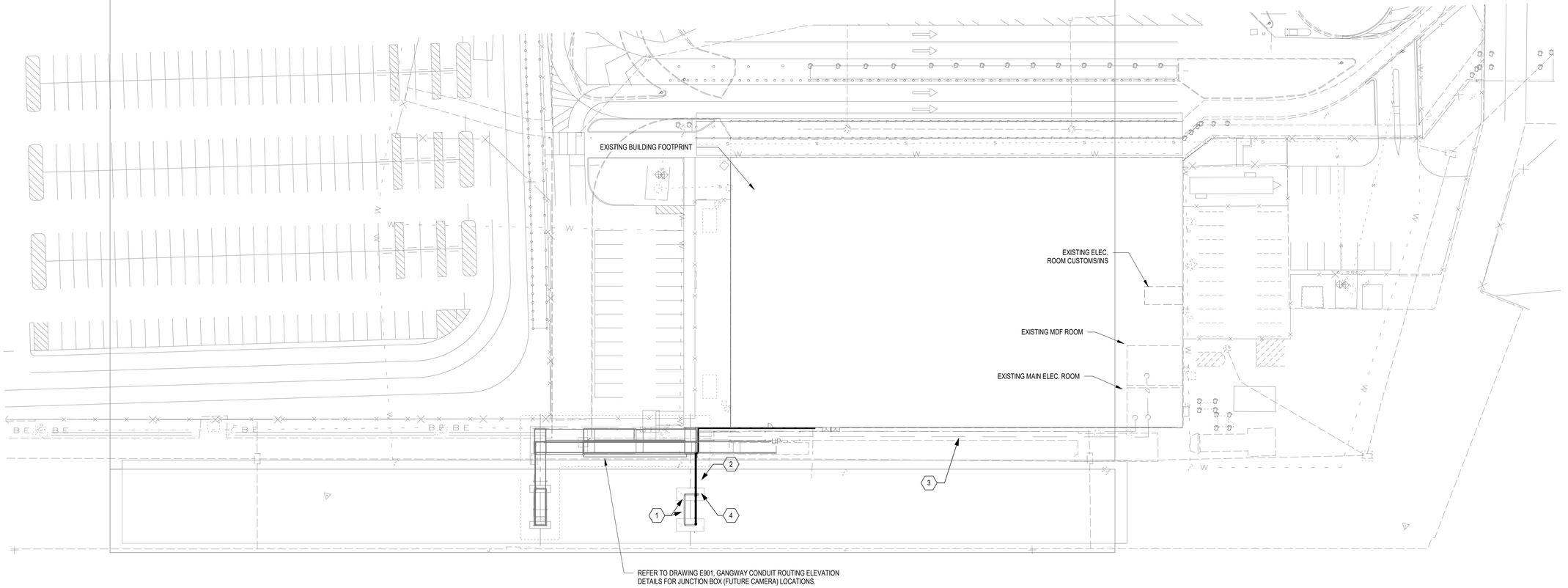
PROJECT NUMBER:
10014153000

SEAL:
LUKE SENKO LICENSE No. 93571 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

SHEET ID:
E003

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS



1 ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

20 0 20 40

SCALE: 1" = 40'

KEYED NOTES:

1. PROPOSED NEW CHAIN HOIST MOTOR AND ASSOCIATED CONTROLS, FURNISHED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH STRUCTURAL DRAWINGS, PRIOR TO COMMENCEMENT OF WORK. PROVIDE 3#10,1#10EG - 2"C FROM HB - 20,22,24.
2. PROVIDE SURFACE MOUNTED UV RESISTANT SCHEDULE 40 PVC OR GREATER CONDUIT TO EXISTING AND NEW GANGWAY FOR NEW CHAIN HOIST MOTOR. REFER TO EXISTING PANEL SCHEDULE, ON SHEET E601 FOR CONDUIT AND CONDUCTOR SIZES.
3. PROVIDE 2" SURFACE MOUNTED UV RESISTANT SCHEDULE 40 PVC OR GREATER CONDUIT WITH PULL CORD TO EXISTING AND NEW GANGWAY FOR FUTURE CAMERAS. PROPOSED CONDUIT ROUTING IS SHOWN ON DRAWING E901, GANGWAY CONDUIT ROUTING ELEVATION. ROUTING INDICATED IS FOR ILLUSTRATION PURPOSES. COORDINATE EXACT PATHWAY AND ROUTING WITH BEST PRACTICES OF MEANS AND METHODS.
4. PROVIDE SURFACE MOUNTED 6"X12"X12" UV RESISTANT SCHEDULE 40 PVC OR GREATER JUNCTION BOX TO NEW GANGWAY FOR PROPOSED CAMERA(S). QUANTITIES AND LOCATIONS ARE DEFINED ON SHEET E901, GANGWAY CONDUIT ROUTING ELEVATION.

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

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REVISIONS

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DATE ISSUED:	01/24/2025
REVIEWED BY:	LAS
DRAWN BY:	TKH
DESIGNED BY:	LAS

PROJECT NUMBER:
10014153000

SEAL:
LUKE SENKO LICENSE No. 93571 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET ID:
ES101

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS

PANEL ID: HB

POWER SUPPLIED FROM MDP
MOUNTING: Surface
ENCLOSURE: Type 1
VOLTAGE: 480/277 Wye
PHASE: 3
WIRES: 4
kAIC RATING: 18 kAIC
LUG RATING: 600 A
MAIN OCPD RATING: MLO

CIRCUIT DESCRIPTION	TRIP	POLE	CKT	A		B		C		CKT	POLE	TRIP	CIRCUIT DESCRIPTION
			1	0 kVA	0 kVA					2			
EXISTING LOAD	20 A	3	3			0 kVA	0 kVA			4	3	50 A	EXISTING LOAD
			5					0 kVA	0 kVA	6			
			7	0 kVA	0 kVA					8			
EXISTING LOAD	35 A	3	9			0 kVA	0 kVA			10	3	50 A	EXISTING LOAD
			11					0 kVA	0 kVA	12			
GANGWAY LIGHTING	20 A	2	13	0.7 kVA	0 kVA					14			
			15			0.7 kVA	0 kVA			16	3	50 A	EXISTING LOAD
SPARE	20 A	1	17					0 kVA	0 kVA	18			
			19	0 kVA	6.1 kVA					20			
EXISTING LOAD	50 A	3	21			0 kVA	6.1 kVA			22	**3**	**30 A**	**HOIST (GANGWAY)**
			23					0 kVA	6.1 kVA	24			
			25	0 kVA	0 kVA					26			
EXISTING LOAD	50 A	3	27			0 kVA	0 kVA			28	3	20 A	EXISTING LOAD
			29					0 kVA	0 kVA	30			
			31	0 kVA	0 kVA					32			
EXISTING LOAD	50 A	3	33			0 kVA	0 kVA			34	3	50 A	EXISTING LOAD
			35					0 kVA	0 kVA	36			
			37	0 kVA	0 kVA					38			
EXISTING LOAD	50 A	3	39			0 kVA	0 kVA			40	3	50 A	EXISTING LOAD
			41					0 kVA	0 kVA	42			
			Total Amps:	24.9 A		25 A		22 A					
			Total Load:	6.80 kVA		6.80 kVA		6.10 kVA					

LOAD CLASSIFICATION:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	19700 VA	100.00%	19700 VA		
				kVA (CONNECTED):	19.7 kVA
				kVA (ESTIMATED DEMAND):	19.7 kVA
				CURRENT (CONNECTED):	23.7 A
				CURRENT (ESTIMATED DEMAND):	23.7 A

NOTES:
1. BOLD TEXT INDICATES NEW WORK.

PANEL ID: LB

POWER SUPPLIED FROM DP
MOUNTING: Surface
ENCLOSURE: Type 1
VOLTAGE: 120/208 Wye
PHASE: 3
WIRES: 4
kAIC RATING: 10 kAIC
LUG RATING: 225 A
MAIN OCPD RATING: MLO

CIRCUIT DESCRIPTION	TRIP	POLE	CKT	A		B		C		CKT	POLE	TRIP	CIRCUIT DESCRIPTION
EXISTING LOAD	20 A	1	1	0 kVA	0 kVA					2	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	3			0 kVA	0 kVA			4	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	5					0 kVA	0 kVA	6	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	7	0 kVA	0 kVA					8	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	9			0 kVA	--			10	1	--	(SPACE)
EXISTING LOAD	20 A	1	11					0 kVA	0 kVA	12	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	13	0 kVA	--					14	1	--	(SPACE)
EXISTING LOAD	20 A	1	15			0 kVA	0 kVA			16	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	17					0 kVA	0 kVA	18	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	19	0 kVA	0 kVA					20	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	21			0 kVA	0 kVA			22	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	23					0 kVA	0 kVA	24	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	25	0 kVA	0 kVA					26	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	27			0 kVA	0 kVA			28	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	29					0 kVA	0 kVA	30	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	31	0 kVA	--					32	1	--	(SPACE)
EXISTING LOAD	20 A	1	33			0 kVA	0 kVA			34	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	35					0 kVA	0 kVA	36	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	37	0 kVA	0 kVA					38	1	20 A	EXISTING LOAD
EXISTING LOAD	50 A	2	39			0 kVA	0 kVA			40	1	20 A	GANGWAY FANS
			41					0 kVA	0 kVA	42	1	20 A	GANGWAY RECS
			Total Amps:	0.0 A		0 A		0 A					
			Total Load:	0.00 kVA		0.00 kVA		0.00 kVA					

LOAD CLASSIFICATION:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				kVA (CONNECTED):	0.0 kVA
				kVA (ESTIMATED DEMAND):	0.0 kVA
				CURRENT (CONNECTED):	0.0 A
				CURRENT (ESTIMATED DEMAND):	0.0 A

NOTES:
1. BOLD TEXT INDICATES NEW WORK.

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

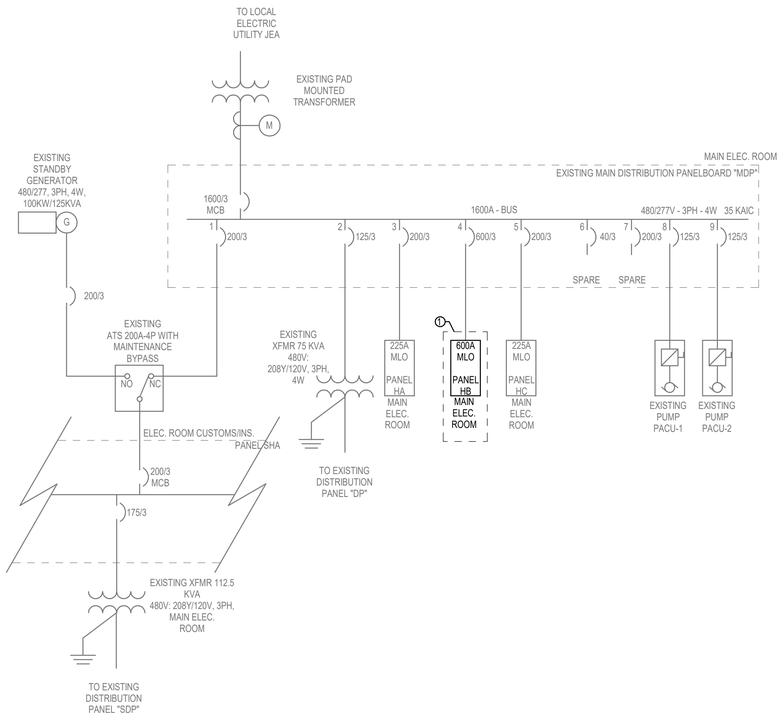
DATE ISSUED: 01/24/2025
REVIEWED BY: LAS
DRAWN BY: TKH
DESIGNED BY: LAS
PROJECT NUMBER: 10014153000

SEAL:
LUKE SENKO LICENSE No. 93571 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

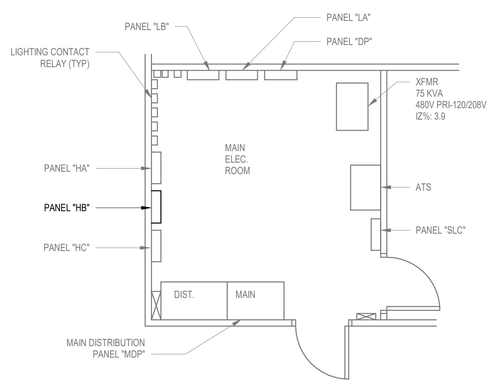
SHEET ID:
E601

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS



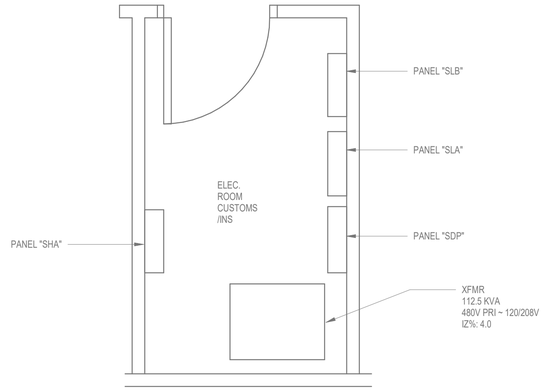
3 PARTIAL ONE-LINE DIAGRAM-EXISTING BUILDING

SCALE: N.T.S.



1 MAIN ELEC. ROOM EXISTING LAYOUT

SCALE: 1/4" = 1'-0"



2 ELEC. ROOM CUSTOMS/INS EXISTING LAYOUT

SCALE: 1/2" = 1'-0"

GENERAL NOTES:

1. ALL ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED. REFER TO EXISTING PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. REFER TO EXISTING PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION, SHEET E601.

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JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	LAS
DRAWN BY:	TKH
DESIGNED BY:	LAS

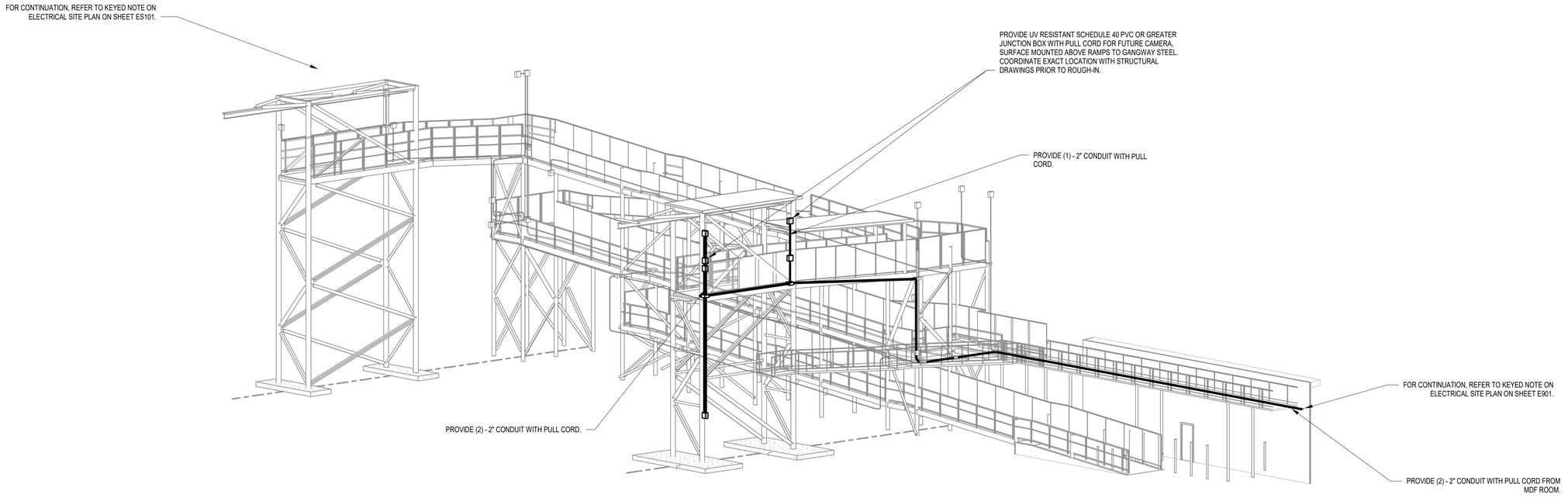
PROJECT NUMBER:
10014153000

SEAL:
LUKE SENKO LICENSE No. 93571 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL ONE LINE DIAGRAM

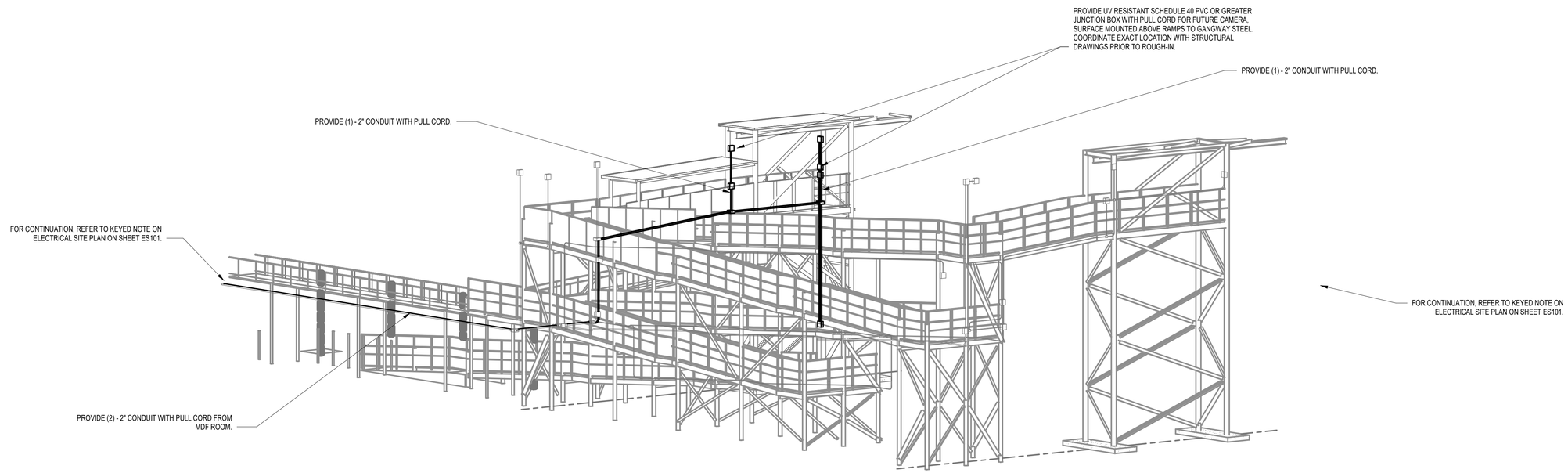
SHEET ID:
E701

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS



2 GANGWAY CONDUIT ROUTING - NORTHWEST ELEVATION

SCALE: N.T.S.



1 GANGWAY CONDUIT ROUTING - SOUTHEAST ELEVATION

SCALE: N.T.S.

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

PROJECT TITLE:
JAXPORT CRUISE TERMINAL GANGWAY MODIFICATION

PROJECT ADDRESS:
9810 AUGUST DRIVE
JACKSONVILLE, FL 32226

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01/24/2025
REVIEWED BY:	LAS
DRAWN BY:	TKH
DESIGNED BY:	LAS

PROJECT NUMBER:
10014153000

SEAL:
LUKE SENKO LICENSE No. 93571 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET TITLE:
ELECTRICAL ISOMETRICS

SHEET ID:
E901

PROJECT STATUS:
100% CONSTRUCTION DOCUMENTS

"REVISED BID FORM"

JAXPORT PROJECT NO.: D2025-01
JAXPORT CONTRACT NO.: C-2017C
CRUISE TERMINAL NEW GANGWAY
DAMES POINT MARINE TERMINAL

BIDDER'S NAME:_____

The undersigned hereby proposes to furnish all materials, equipment, labor, and supervision for the above identified project, in accordance with the specifications and drawings for Contract No. **C-2017C**, at the following price:

Scope of Work: Furnish to all labor, materials, equipment, incidentals, testing, supervision, means and methods necessary to build a new steel gangway/ramp for passengers' access to a Cruise Ship at the Dames Point Cruise Terminal in accordance and compliance with all applicable local, state and federal codes, standards and regulations, including structural, electrical, mechanical, environmental and safety related standards.

"REVISED BID FORM"				
JAXPORT Cruise Terminal New Gangway				
Item No.	**Item Description**	**Unit of Measure**	**Estimated Quantities**	**Total Item Amount**
Division 01 - General Requirements				
1.01	Mobilization/Demobilization (60% / 40%)	LS	1	$
1.02	General Conditions	LS	1	$
			Subtotal (General Requirements):	**$**
Division 02 - Existing Conditions				
2.01	Demolition	LS	1	$
2.02	Sawcut and Remove Existing Asphalt Pavement	SY	12	$
2.03	Excavation for Footings	SY	50	$
			Subtotal (Existing Conditions):	**$**
Division 03 - New Construction				
3.01	Concrete	LS	1	$
3.02	Steel	LS	1	$
3.03	Painting	LS	1	$
3.04	Guardrail Infill (**Alucobond Panels and** Lexan Panels)	LS	1	$
3.05	Composite Canopy	SF	2,250	$
3.06	Hoist	EA	1	$
3.07	Gangway Bridge (Brow)	EA	1	$
			Subtotal (New Construction):	**$**
Division 04 - Electrical				
4.01	Existing Electrical Demo	LS	1	$
4.02	Pull Box(es)	LS	1	$
4.03	Branch Circuit (Conduit(s) & Conductors)	LS	1	$
4.04	Disconnect & Controller	LS	1	$
			Subtotal (Electrical):	**$**
Division 05 - IT/Communications				
5.01	Conduit(s) w/ Pull Cord (1 Qty. 2" RMC)	LS	1	$
5.02	Pull Box(es)	LS	1	$
			Subtotal (IT/Communications):	**$**
			Bid Total:	**$**

"REVISED BID FORM"

JAXPORT PROJECT NO.: D2025-01
JAXPORT CONTRACT NO.: C-2017C
CRUISE TERMINAL NEW GANGWAY
DAMES POINT MARINE TERMINAL

(Submission of more than one bid form for the same work by an individual, firm, partnership or corporation under the same or different names and/or any alterations, exceptions or comments contained within the bid form shall be grounds for rejection of the bid)

Basis of Award: The Authority reserves the right to award this contract to the bidder whose prices is the lowest based on Total Bid Amount (Division Items 01 - 05), subject to availability of appropriated funds.

JAXPORT reserves the right to award this contract to the lowest, responsive, responsible bidder, whose bid is fully conforming to the requirements of the bid documents. Nevertheless, JAXPORT reserves the right to waive informalities or minor irregularities in any bid, to reject any or all bids, and to accept the bid which, in its judgment, will be in the best interest of JAXPORT. JAXPORT will be the sole judge of which proposal will be in its best interest and its decision will be final.

JAXPORT reserves the right to award this contract to the bidder offering the lowest price consistent with meeting all specifications, terms, conditions, delivery requirements set forth on this bid. No award will be made until all necessary inquiries have been made into the responsibility of the lowest conforming bidder and JAXPORT is satisfied that the lowest bidder met all the requirements, is qualified and has the necessary organization, capital and resources required to perform the work under the terms and conditions of the contract. JAXPORT reserves the right to accept or reject any or all proposals, in whole or in part.

Bidder's Attestation:

Initials:_____ Date:_____ I hereby attest, as the Bidder's authorized agent, that Firm is not owned, an affiliate of, or substantially controlled or influenced by the government of a foreign country of concern as defined below.

Under Florida Statutes, JAXPORT, like all state agencies and local government entities, is prohibited from entering into any contract or agreement with a foreign country of concern, which has been defined as "the People's Republic of China, the Russian Federation, the Islamic Republic of Iran, the Democratic People's Republic of Korea, the Republic of Cuba, the Venezuelan regime of Nicolás Maduro, or the Syrian Arab Republic, including any agency of or any other entity of significant control of such foreign country of concern."

The required bid guaranty is attached hereto (see "Supplemental Instructions to Bidders") of the contract documents.

"REVISED BID FORM"

JAXPORT PROJECT NO.: D2025-01
JAXPORT CONTRACT NO.: C-2017C
CRUISE TERMINAL NEW GANGWAY
DAMES POINT MARINE TERMINAL

Acknowledgment of the following addenda is hereby made (see "Supplemental Instructions to Bidders"):

Addendum No. 1, Dated: _____ Initials: _____
Addendum No. 2, Dated: _____ Initials: _____
Addendum No. 3, Dated: _____ Initials: _____
Addendum No. 4, Dated: _____ Initials: _____

See also "Bid Contents and Format" section of the "Supplemental Instructions to Bidders".

Name of Contractor

AUTHENTICATION (see "Supplemental Instructions to Bidders")

Firm

Business Address City State Zip Code

Mailing Address, if different from above

Authorized Signature Date Executed

Typed Name Title

E-Mail Address

Telephone Number Facsimile Number

Company Federal Tax I.D. No. Company's Business License No.

ATTACHMENT NO. 7

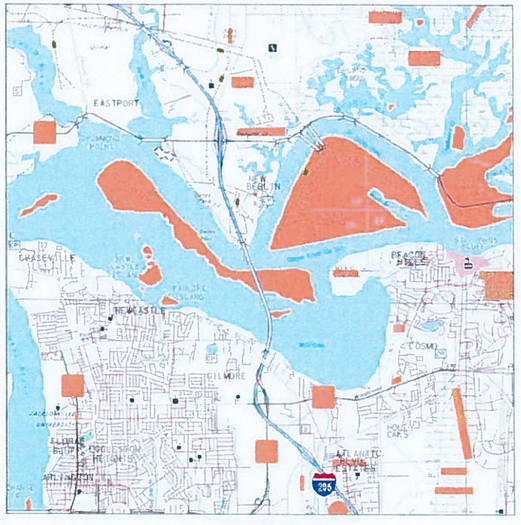
"EXISTING GANGWAY AS-BUILT DRAWINGS"

(informational only)

JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL
CRUISE TERMINAL GANGWAY

JPA CONTRACT NO. C-1642
RS&H PROJECT NO. 101-0003-027



VICINITY MAP
JACKSONVILLE, FLORIDA

LOCATION MAP
JACKSONVILLE, FLORIDA

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

N

INDEX OF DRAWINGS

RS&H
Engineer of Record:
Richard E. Peters
P.E. No. 33996

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

JAXPORT CRUISE TERMINAL GANGWAY

CONSULTANTS

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	**8/16/18**
REVIEWED BY:	**REP**
DRAWN BY:	**PFM**
DESIGNED BY:	**DMH**

RS&H PROJECT NO.
101-0003-027

SHEET TITLE

KEY SHEET

SHEET NUMBER

G001

CONSTRUCTION DOCUMENTS

C:\Users\rmullp\Documents\101000326_JAXPORT Cruise Gangway_S_R17_pmull.rvt

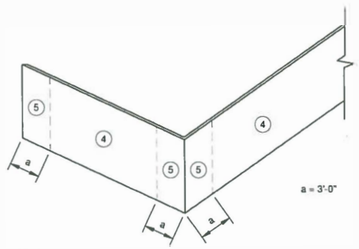
8/17/2018 12:51:00 PM

SYMBOLS & ABBREVIATIONS

AB	ANCHOR BOLT	IAW	IN ACCORDANCE WITH
ADJ	ADJACENT	IF	INSIDE FACE
AFF	ABOVE FINISH FLOOR	INT	INTERIOR
B/	BOTTOM OF	JT	JOINT
BC	BOTTOM CHORD		
BLDG	BUILDING	KSI	KIPS PER SQUARE INCH
BM	BEAM		
BOTT	BOTTOM	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTW	BETWEEN	LOC	LOCATION
		LSV	LONG SIDE VERTICAL
CCJ	CONTRACTION CONTROL JOINT		
CFMF	COLD FORMED METAL FRAMING	M	MECHANICAL
CL	CENTERLINE	MAX	MAXIMUM
CLR	CLEAR	MC	MOMENT CONNECTION
CMU	CONCRETE MASONRY UNIT	MFR	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MSL	MEAN SEA LEVEL
CONT	CONTINUOUS		
		OAE	OR APPROVED EQUAL
D	DEEP	OC	ON CENTER
DET	DETAIL	OF	OUTSIDE FACE
DIA	DIAMETER	OH	OPPOSITE HAND
E	ELECTRICAL	PAF	POWDER ACTUATED FASTENER
EA	EACH	PL	PLATE
EJ	EXPANSION JOINT	PSF	POUNDS PER SQUARE FOOT
EL	ELEVATION	PSI	POUNDS PER SQUARE INCH
EMBED	EMBEDMENT		
EOD	EDGE OF DECK	R	RADIUS
EP	EMBEDDED PLATE	REINF	REINFORCEMENT
EPS	EXPANSIVE POLYSTYRENE GEOFOAM		
EQ	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SLV	SHORT LEG VERTICAL
EXIST	EXISTING	STD	STANDARD
EXP	EXPANSION	STL	STEEL
EXT	EXTERIOR		
		T&B	TOP AND BOTTOM
FDN	FOUNDATION	T/	TOP OF
FTG	FOOTING	TH	THICK
FV	FIELD VERIFY	TRANS	TRANSVERSE
		TYP	TYPICAL
GALV	GALVANIZED		
GR	GRADE	UNO	UNLESS NOTED OTHERWISE
HDG	HOT DIPPED GALVANIZED	VERT	VERTICAL
HORIZ	HORIZONTAL		
HSA	HEADED STUD ANCHOR	W	WIDE
HSS	HOLLOW STEEL SECTION	W/	WITH
HT	HEIGHT	WF	WIDE FLANGE
		WP	WORK POINT

ULTIMATE COMPONENTS & CLADDING PRESSURES FOR VERTICAL COMPONENTS (PSF)

ZONE	EFFECTIVE WIND AREA (S.F.)			
	≤ 10	25	50	100
(4)	-51.4	-48.7	-46.5	-44.3
(5)	-63.2	-57.5	-53.6	-49.2
(4) & (5)	47.4	44.8	42.6	40.4



NOTES:

1. EDGE ZONE (a) IS DISTANCE FROM CORNERS OF COMPONENTS, AND IS SHOWN IN THE DIAGRAM, ABOVE.
2. POSITIVE AND NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM SURFACES, RESPECTIVELY.
3. FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED. OTHERWISE USE THE LOWER EFFECTIVE AREA.

FOUNDATIONS:

1. FOUNDATIONS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS FROM CSI GEO, INC PROJECT NO 71-18-120-31, JAXPORT 175B-PO3929, DATED 5/23/2018.
2. ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF
3. FOUNDATIONS ON THE RELIEVING PLATFORM ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 1500 PSF.
4. SITE PREPARATION AND FILL AND FOUNDATION BEARING SURFACES SHALL BE IN ACCORDANCE WITH THE GEOTECH REPORT.

CONCRETE:

1. ALL CONCRETE SHALL BE DESIGNED PER ACI 318-14.
2. ALL CONCRETE SHALL BE DESIGNED BY AN APPROVED LABORATORY, AND THE DESIGN MIX SHALL SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW, AND OBTAIN APPROVAL PRIOR TO USE.

LOCATION	STRENGTH @ 28 DAYS
NORMAL WEIGHT CONCRETE	
FOUNDATIONS	3000 PSI
SLAB ON GRADE	3000 PSI
ELEVATED COMPOSITE DECK	4000 PSI
ALL OTHER CONCRETE	3000 PSI

3. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES. MOULDS, FLOOR HINGES, ETC. TO BE CAST INTO THE CONCRETE.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60. ALL MESH REINFORCING SHALL CONFORM TO A.S.T.M. SPECIFICATION A1064.
2. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE CLASS B TENSION LAP SPLICES, U.N.O.
3. MINIMUM LAP OF MESH REINFORCING SHALL BE ONE FULL MESH PLUS 2" OR 6", WHICHEVER IS GREATER.
4. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS	3"
SLABS ON GRADE	TOP THIRD

5. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 531 DURING THE PLACING OF CONCRETE.
6. PROVIDE CORNER REINFORCING TO MATCH HORIZONTAL REINFORCING AT ALL CORNERS OF CONTINUOUS FOOTINGS AND TIE BEAMS.
7. ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS NOTED OTHERWISE.
8. REINFORCING BARS CONFORMING TO ASTM A706 SHALL BE USED FOR BARS REQUIRING WELDING.

GANGWAY NOTES:

1. GANGWAY SHALL BE DESIGNED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE.
2. GANGWAY SHALL BE DESIGNED FOR A UNIFORM LIVE LOAD OF 100PSF.
3. GANGWAY SHALL BE PROVIDED WITH LIFTING LUGS.
4. GANGWAY SHALL BE FABRICATED FROM 6061-T6 ALUMINUM MATERIAL.
5. BREAK ALL EDGES ABOVE DECK LEVEL.
6. HANDRAIL, GUARDS AND INFILL SHALL COMPLY WITH THE 2017 FLORIDA BUILDING CODE – ACCESSIBILITY.
7. PIPE RAIL SHALL HAVE A BRUSH FINISH AFTER FABRICATION.
8. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
9. BASIS OF DESIGN: BELLINGHAM MARINE INDUSTRIES, INC.

GUARDRAIL INFILL NOTES:

1. ALL INFILL PANELS SHALL BE 6 MM ALUCOBOND PE PANELS EXCEPT WHERE OTHERWISE NOTED ON THE PLANS. PANELS MARKED WITH AN [L] SHALL BE 6 MM LEXAN XL102UV SHEETS.

   COLORS SHALL BE SELECTED BY JAXPORT. SUBMIT SAMPLES.
2. SHEET PRODUCTS SHALL BE SAWN AND CUT ACCURATELY USING STANDARD WORKSHOP EQUIPMENT, HOWEVER, MANUFACTURER'S WRITTEN GUIDELINES SHALL BE FOLLOWED.
3. ALL PANEL BUTT JOINTS SHALL BE VERTICAL. NO HORIZONTAL OR SLANTED JOINTS ARE PERMITTED.
4. PANELS SHALL BE FASTENED TO ALL HORIZONTAL RAILS WITH MIN #8 SS SELF TAPPING, SELF DRILLING SCREWS WITH BONDED WASHERS AT 12" O.C. HOLES IN THE PANELS SHALL BE 2 TIMES THE SCREW SIZE AND SHALL BE DRILLED WITH STANDARD HIGH SPEED DRILLS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. HEAT GENERATION SHALL BE KEPT TO AN ABSOLUTE MINIMUM.
5. PANELS SHALL BE INSTALLED BY A SUBCONTRACTOR WHO HAS SUCCESSFULLY COMPLETED AT LEAST 3 PROJECTS OF SIMILAR SIZE AND SCOPE TO THIS PROJECT.
6. ALL EXPOSED PANEL EDGES SHALL BE BEVELED OR ROUNDED TO ELIMINATE SHARP EDGES.
7. SUBMIT SHOP DRAWINGS SHOWING PROJECT LAYOUT AND ELEVATIONS, FASTENING AND ANCHORING METHODS. DETAIL AND LOCATION OF JOINTS, SEALANTS AND GASKETS, INCLUDING JOINTS NECESSARY TO ACCOMMODATE THERMAL MOVEMENT.
8. BASIS OF DESIGN:

   ALUCOBOND: PIEDMONT PLASTICS
   2175 MASON AVE, DAYTONA BEACH, FL 32117
   (800) 874-7512
   CONTACT: DALE SHELTON, TERRITORY MANAGER
   (904) 472-8015

   LEXAN: SABIC
   PITTSFIELD, MA
   CONTACT: MICHAEL CORUZZI
   (856) 904-3581
   MICHAEL.CORUZZI@SABIC.COM

STRUCTURAL NOTES

DESIGN CRITERIA:

1. ALL WORK TO CONFORM TO THE FOLLOWING:
   2017 FLORIDA BUILDING CODE - BUILDING, SIXTH EDITION
   ASCE 7-10
2. LIVE LOADS:
   WALKWAYS AND RAMPS 100 PSF
3. WIND DESIGN DATA (ASCE 7-10):

ULTIMATE DESIGN WIND SPEED, Vult (3-SECOND GUST)	126 MPH
NOMINAL DESIGN WIND SPEED, Vasd (3-SECOND GUST)	98 MPH
BUILDING RISK CATEGORY	II
WIND EXPOSURE	D

GENERAL:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB SITE WITH COMPLETE SET OF LATEST DRAWINGS. NOTES AND DIMENSIONS SHALL BE CHECKED AND VERIFIED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK SO THAT PROPER REMEDIAL WORK CAN BE EXECUTED.
2. UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS, CONTRACTOR SHALL FURNISH AND INSTALL ADEQUATE SHORING, BRACING, ETC. REQUIRED TO SAFELY EXECUTE ALL WORK AND SHALL BE FULLY RESPONSIBLE FOR THE SAME.
3. DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITION AND MATERIAL.

EXISTING CONDITIONS:

1. THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM EXISTING DRAWINGS BY W.A. GRISWOLD, JR, PE, DATED 8/29/03. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL NOTIFY ARCHITECT / ENGINEER OF ALL EXCEPTIONS TO ASSUMED CONDITIONS.
2. ALL REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH GREAT CARE IN ORDER TO NOT DAMAGE THE EXISTING AND JEOPARDIZE THE INTEGRITY OF THE EXISTING BUILDING TO REMAIN.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE DESIGNED PER THE AISC 360-05, THIRTEENTH EDITION.

WIDE FLANGE SHAPES	A.S.T.M. A992, Fy = 50 KSI
STEEL TUBES	A.S.T.M. A500, GRADE "C" Fy = 50 KSI
STEEL PIPES	A.S.T.M. A500, GRADE "C" Fy = 46 KSI
ALL OTHER STEEL	A.S.T.M. A36, Fy = 36 KSI

2. ALL BOLTS SHALL BE 3/4"Ø (ASTM A325) UNLESS OTHERWISE NOTED.
3. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 UNLESS OTHERWISE NOTED.
4. WELDING SHALL CONFORM TO ANSI/AWS D1.1.
5. MINIMUM SIZE OF ALL FILLET WELDS SHALL CONFORM TO TABLE J2.4 OF AISC SPECIFICATIONS EVEN IF SHOWN OTHERWISE ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.
6. FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF FABRICATION. FABRICATION SHALL CONFORM TO AISC SPECIFICATIONS.
7. ALL STRUCTURAL STEEL AND METAL DECK SHALL BE FIELD PAINTED PER THE SPECIFICATIONS.

METAL FLOOR DECK NOTES:

1. ALL STEEL FLOOR DECK SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE (SDI).
2. ALL STEEL FLOOR DECK SHALL BE GALVANIZED G-90.
3. ALL FLOOR DECK SHALL BE COMPOSITE DECK EQUAL TO NEW MILLENNIUM TYPE 1.5CD, 18 Ga THICKNESS, WITH MINIMUM YEILD STRENGTH OF 40 ksi.

   A. FLOOR DECK MINIMUM PROPERTIES: Ip = 0.279 in⁴/ft, In = 0.281 in⁴/ft, Sp = 0.304 in³/ft, Sn = 0.315 in³/ft.
4. FLOOR SLAB SHALL HAVE AN OVERALL NOMINAL THICKNESS OF 3 1/2" FROM TOP OF CONCRETE TO BOTTOM OF METAL DECK. UNO. REINFORCE W/ 6X6-W1.4 X W1.4.
5. REINFORCING FOR SLAB SHALL BE 3/4" FROM TOP OF SLAB.
6. ALL FLOOR DECK SHALL BE FASTENED TO STEEL SUPPORTS AT ENDS OF SHEET AND INTERMEDIATE SUPPORTS. MIN BEARING LENGTH = 1 1/2." SUPPORT FASTENERS SHALL BE ~~5/8" DIA. PUDDLE WELD~~. WITH SPACING OF MAX 12" OC. #12 Hilti Deck Screw
7. DECKING SHALL HAVE NESTED OR INTERLOCKING SIDE LAPS. SIDE LAPS SHALL BE FASTENED WITH #10 DRILL SCREWS AT MAX 36" OC.
8. ALL DECKS SHALL ARE DESIGNED FOR SINGLE SPANS. TWO OR MORE SPANS MAY BE USED WHERE GEOMETRY ALLOWS.
9. SEE SHEET S502 FOR METAL FLOOR DECK DETAILS.

CANOPY NOTES:

1. CANOPY SHALL BE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE.
2. STEEL POSTS, PURLINS AND HOOPS SHALL CONFORM TO ASTM A53 GRADE A AND SHALL BE HOT DIP GALVANIZED.
3. BOLTS SHALL BE STAINLESS STEEL AND CONFORM TO ASTM A307 AND A325.
4. SHADE FABRIC MATERIAL SHALL MATCH EXISTING AND SHALL HAVE A 10 YEAR WARRANTY AGAINST FADING, ROT, UV DETERIORATION, LOSS OF STRENGTH, COLOR CHANGE OR FAULTY WORMANSHIP.
5. BASIS OF DESIGN: SHADE AMERICA, ST. AUGUSTINE, FLORIDA.

   CONTACT: MULLER OTTO
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   (904) 803-6594

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JAXPORT
JACKSONVILLE PORT AUTHORITY

~~JAXPORT CRUISE~~
TERMINAL GANGWAY

CONSULTANTS

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	**9/12/18**
REVIEWED BY:	**REP**
DRAWN BY:	**PFM**
DESIGNED BY:	**DMH**

RS&H PROJECT NO.
101-0003-027

SHEET TITLE

STRUCTURAL GENERAL NOTES

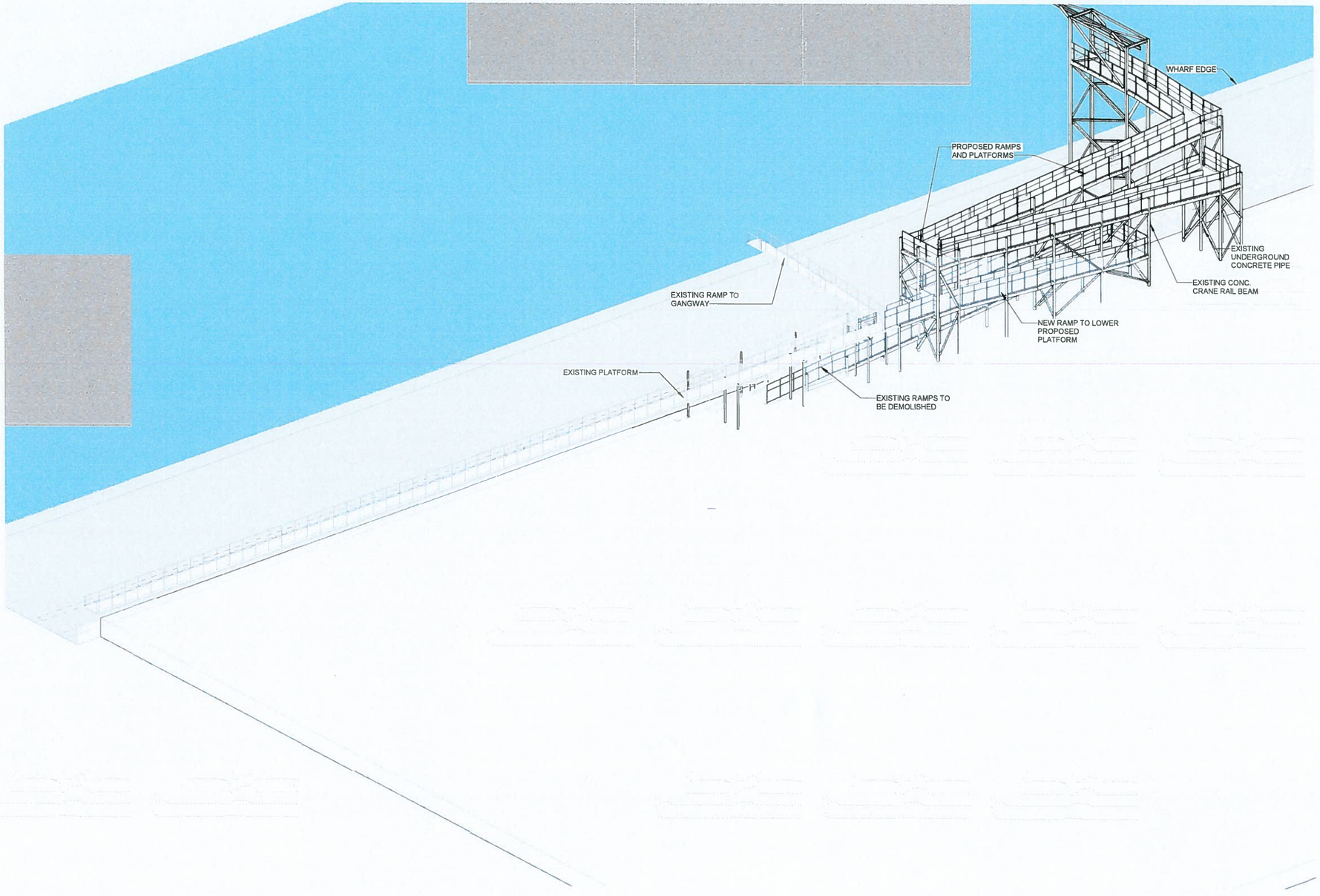
SHEET NUMBER

S012

CONSTRUCTION DOCUMENTS

NOTES:

1. PERSPECTIVE VIEWS ARE PROVIDED FOR REFERENCE ONLY. NOT ALL FRAMING IS NECESSARILY VISIBLE IN VIEW. THESE VIEWS SHOULD NOT BE USED FOR BIDDING, DETAILING, FABRICATION, OR ERECTION PURPOSES.



1 / S013 3D PERSPECTIVE - BUILDING SIDE
SCALE

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RS&H PROJECT NO.
101-0003-027

SHEET TITLE

STRUCTURAL ISOMETRIC - 1

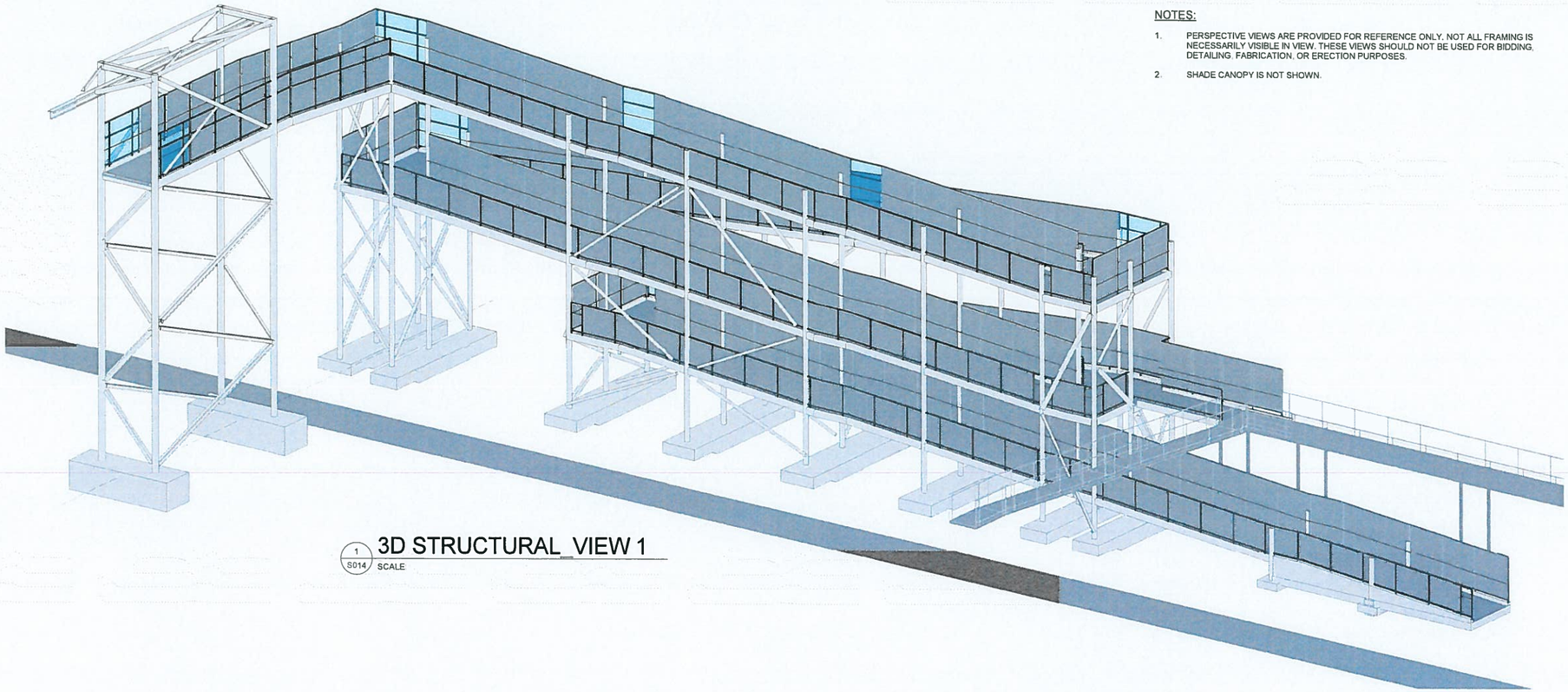
SHEET NUMBER

S013

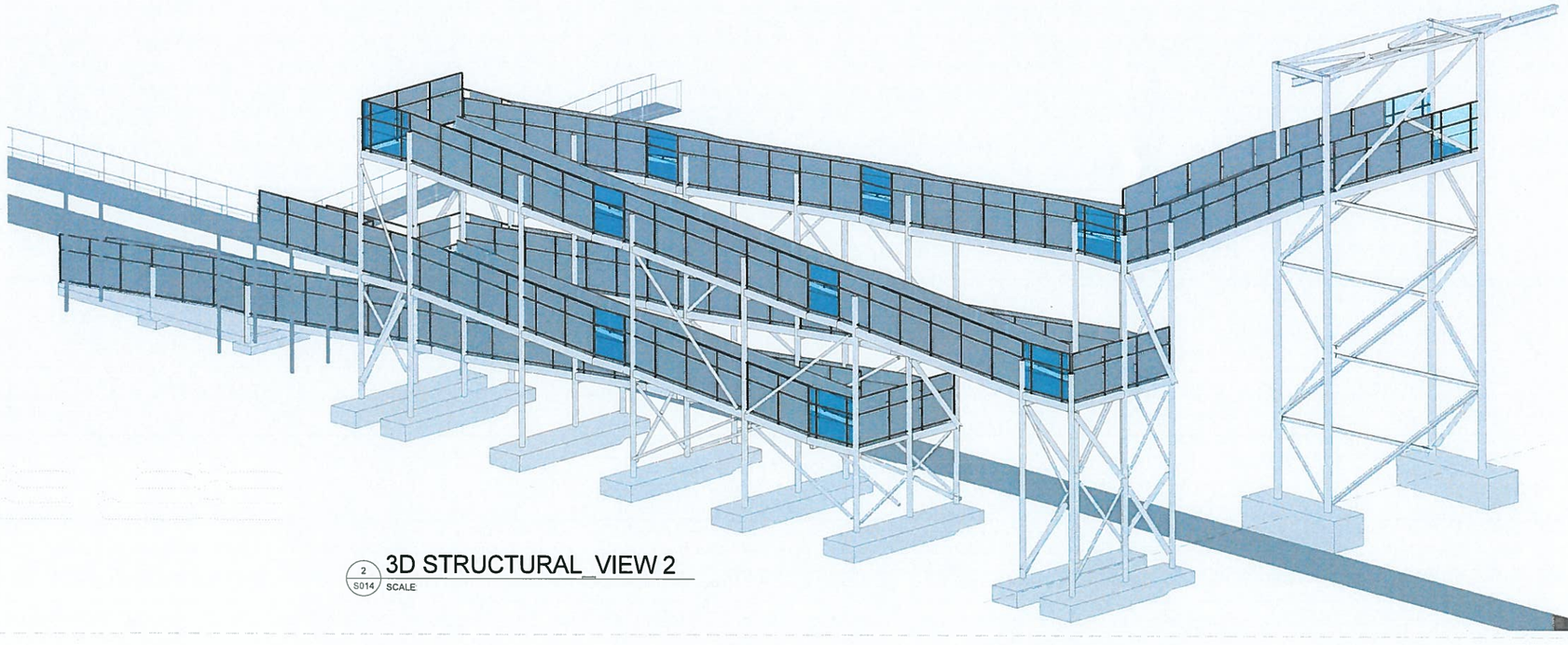
CONSTRUCTION DOCUMENTS

NOTES:

1. PERSPECTIVE VIEWS ARE PROVIDED FOR REFERENCE ONLY. NOT ALL FRAMING IS NECESSARILY VISIBLE IN VIEW. THESE VIEWS SHOULD NOT BE USED FOR BIDDING, DETAILING, FABRICATION, OR ERECTION PURPOSES.
2. SHADE CANOPY IS NOT SHOWN.



1 / S014 3D STRUCTURAL_VIEW 1
SCALE



2 / S014 3D STRUCTURAL_VIEW 2
SCALE

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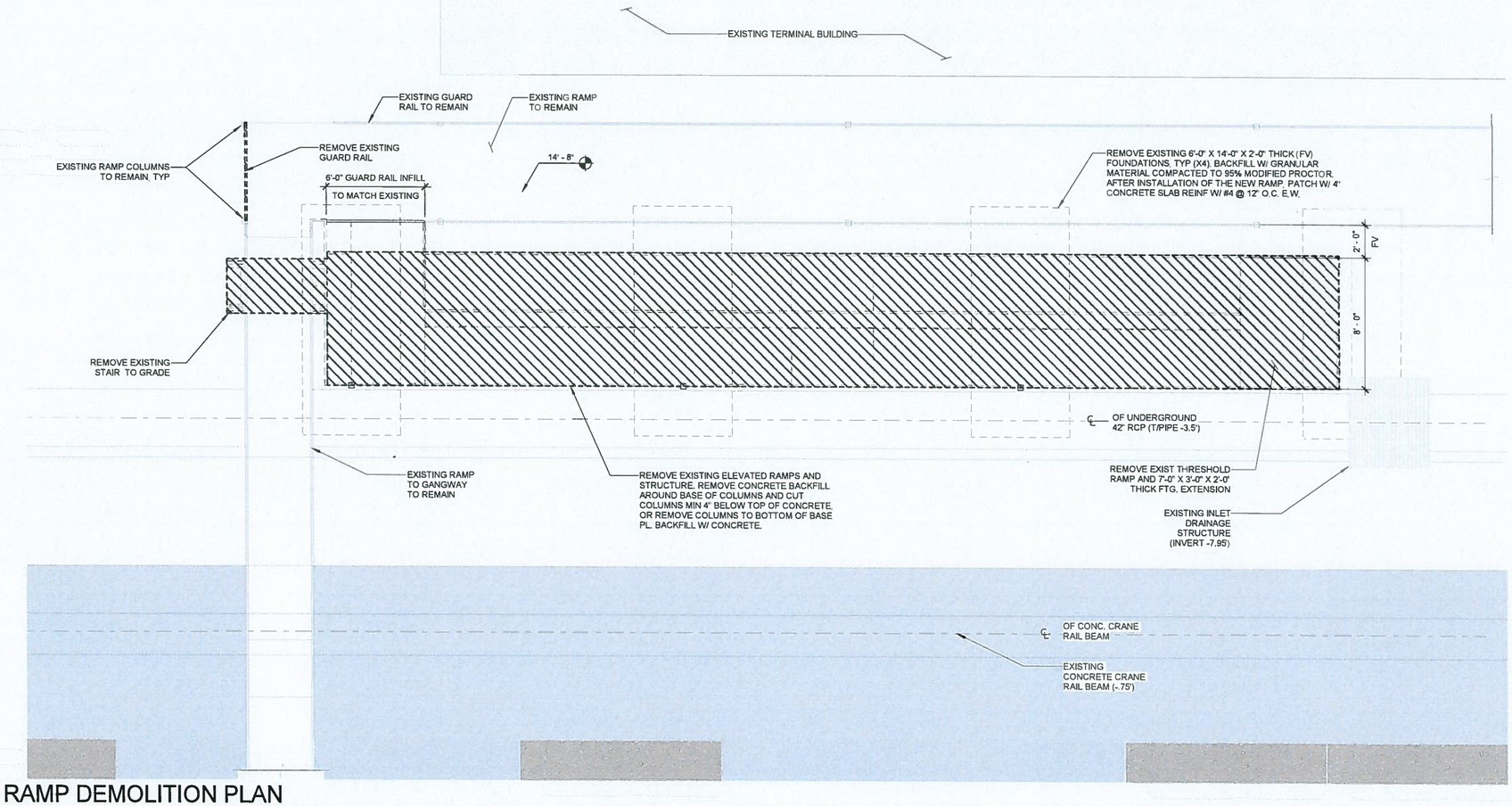
SHEET TITLE

STRUCTURAL ISOMETRIC - 2

SHEET NUMBER

S014

CONSTRUCTION DOCUMENTS

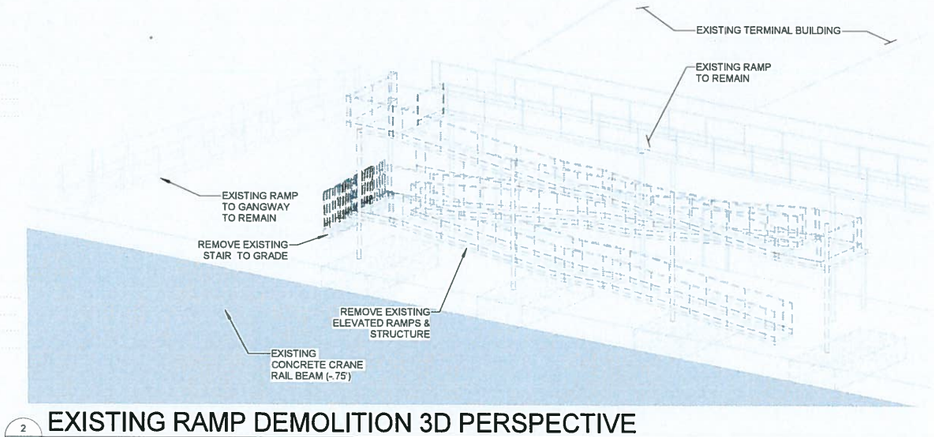


1 SD101 EXISTING RAMP DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

4 0 4 8

SCALE: 1/4" = 1'-0"



2 SD101 EXISTING RAMP DEMOLITION 3D PERSPECTIVE

SCALE:

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101-0003-027

SHEET TITLE

EXISTING RAMP DEMOLITION PLAN

SHEET NUMBER

SD101

CONSTRUCTION DOCUMENTS

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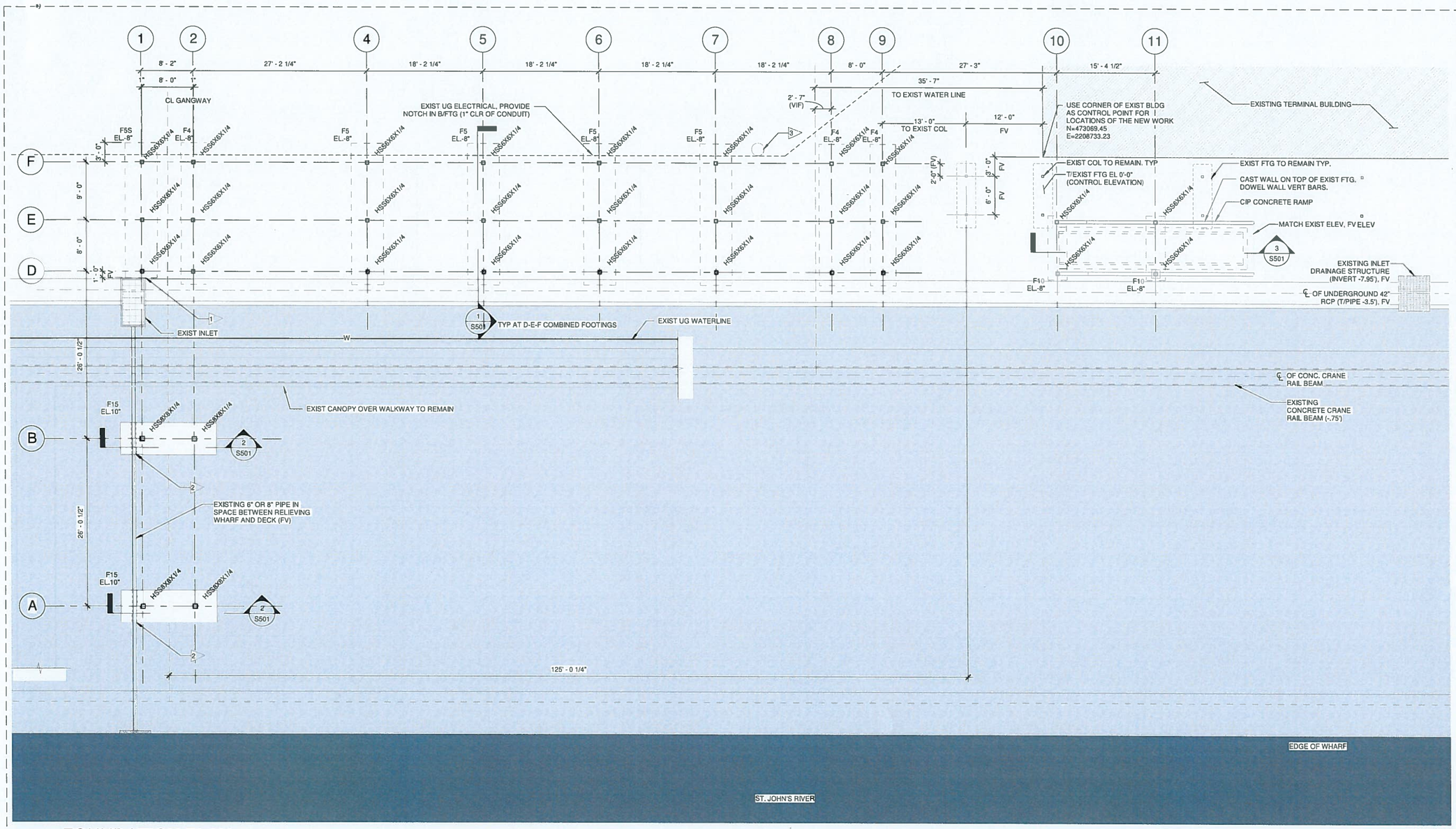

FOUNDATION PLAN

1 S101 SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. DRAWING ELEVATION 0'-0" = EL. OF T/EXIST FOOTING LOCATED AT THE SOUTHWEST CORNER OF THE EXISTING TERMINAL BLDG (SEE PLAN FOR LOCATION).
2. F__ INDICATES SPREAD FOOTING TYPE. SEE PLAN & SCHEDULE, THIS SHEET.

FLAG NOTES:

1. CAST TO EDGE OF STORM DRAIN W/ 1/2" EXP JOINT.
2. PROVIDE A PVC PIPE SLEEVE THRU FOOTING WITH A MINIMUM OF 1" GAP ALL AROUND.
3. EXIST LIGHT POLE.

FOUNDATION SCHEDULE

TYPE	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F4	22' - 0"	4' - 0"	24" / 18", SEE SECTION	5-#5 LONG, 23-#5 SHORT T & B
F5	22' - 0"	5' - 0"	24" / 18", SEE SECTION	6-#5 LONG, 23-#5 SHORT T & B
F5S	21' - 0"	5' - 0"	24" / 18", SEE SECTION	6-#5 LONG, 22-#5 SHORT T&B
F10	3' - 0"	10' - 0"	1' - 0"	4- #5 LONG, 11 #4 SHORT, CENTERED
F15	5' - 0"	15' - 0"	3' - 10"	6- #6 LONG, 17-#6 SHORT T & B, SEE 2/S501

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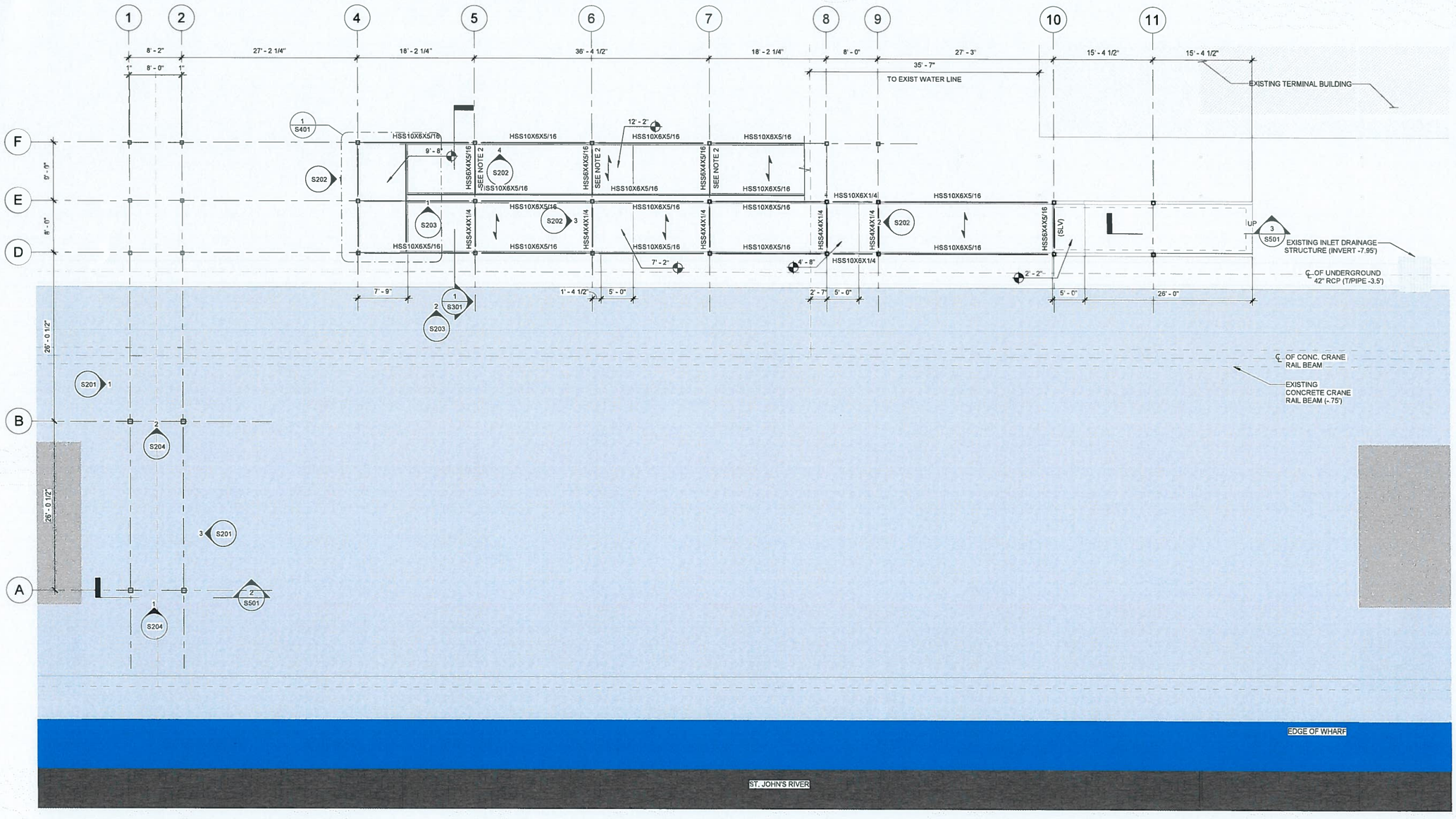
101-0003-027

SHEET TITLE
FOUNDATION PLAN

SHEET NUMBER
S101

CONSTRUCTION DOCUMENTS



1 S102 RAMP FRAMING PLAN - LOWER

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

NOTES:

1. T/STL STRINGER AT PLATFORM & RAMP EDGES IS +4" FROM T/DECK.
2. FOR TRANSVERSE HSS BEAM ELEVATIONS, SEE S200 SHEETS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.
4. PROVIDE CONTRACTION CONTROL JT'S AT MAX 5'-0" OC AT RAMPS, TYP. SEE S501 FOR DETAIL.
5. ⟶ INDICATES FLOOR METAL DECK SPAN DIRECTION. SEE SHEET S012 FOR DECK NOTES.

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DESIGNED BY:	DMH

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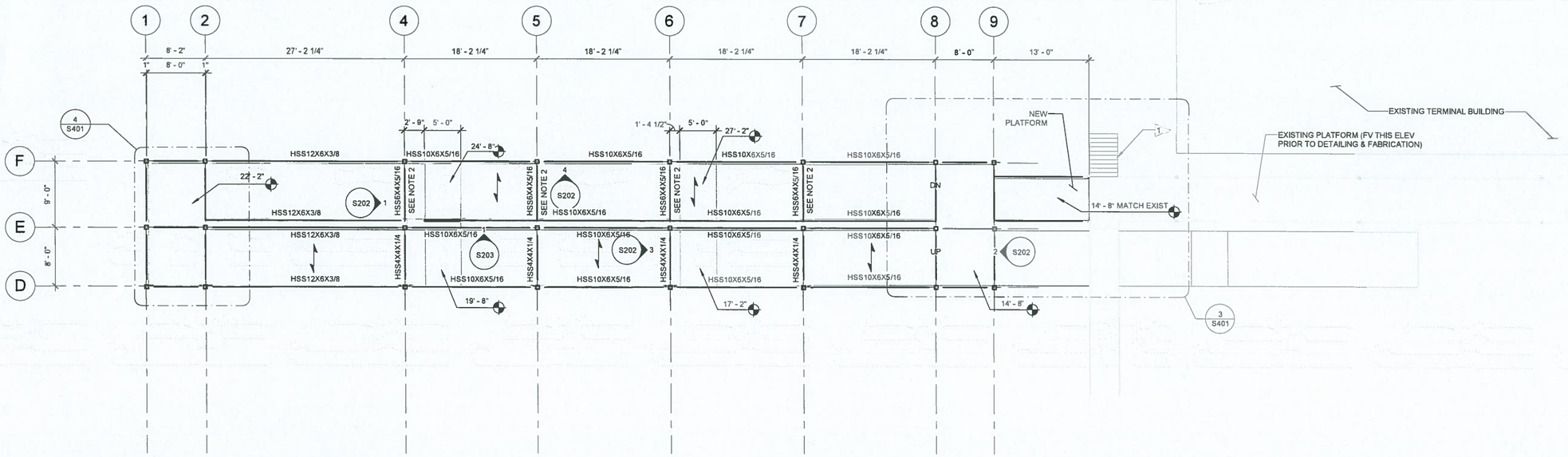
101-0003-027

SHEET TITLE
RAMP FRAMING PLAN - LOWER

SHEET NUMBER
S102

CONSTRUCTION DOCUMENTS



1 S103 RAMP FRAMING PLAN - INTERMEDIATE

SCALE 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

NOTES:

1. T/STL STRINGER AT PLATFORM & RAMP EDGES IS +4" FROM T/DECK.
2. FOR TRANSVERSE HSS BEAM ELEVATIONS, SEE S200 SHEETS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.
4. PROVIDE CONTRACTION CONTROL JT'S AT MAX 5'-0" OC AT RAMPS. TYP. SEE S501 FOR DETAIL.
5. INDICATES FLOOR METAL DECK SPAN DIRECTION. SEE SHEET S012 FOR DECK NOTES.

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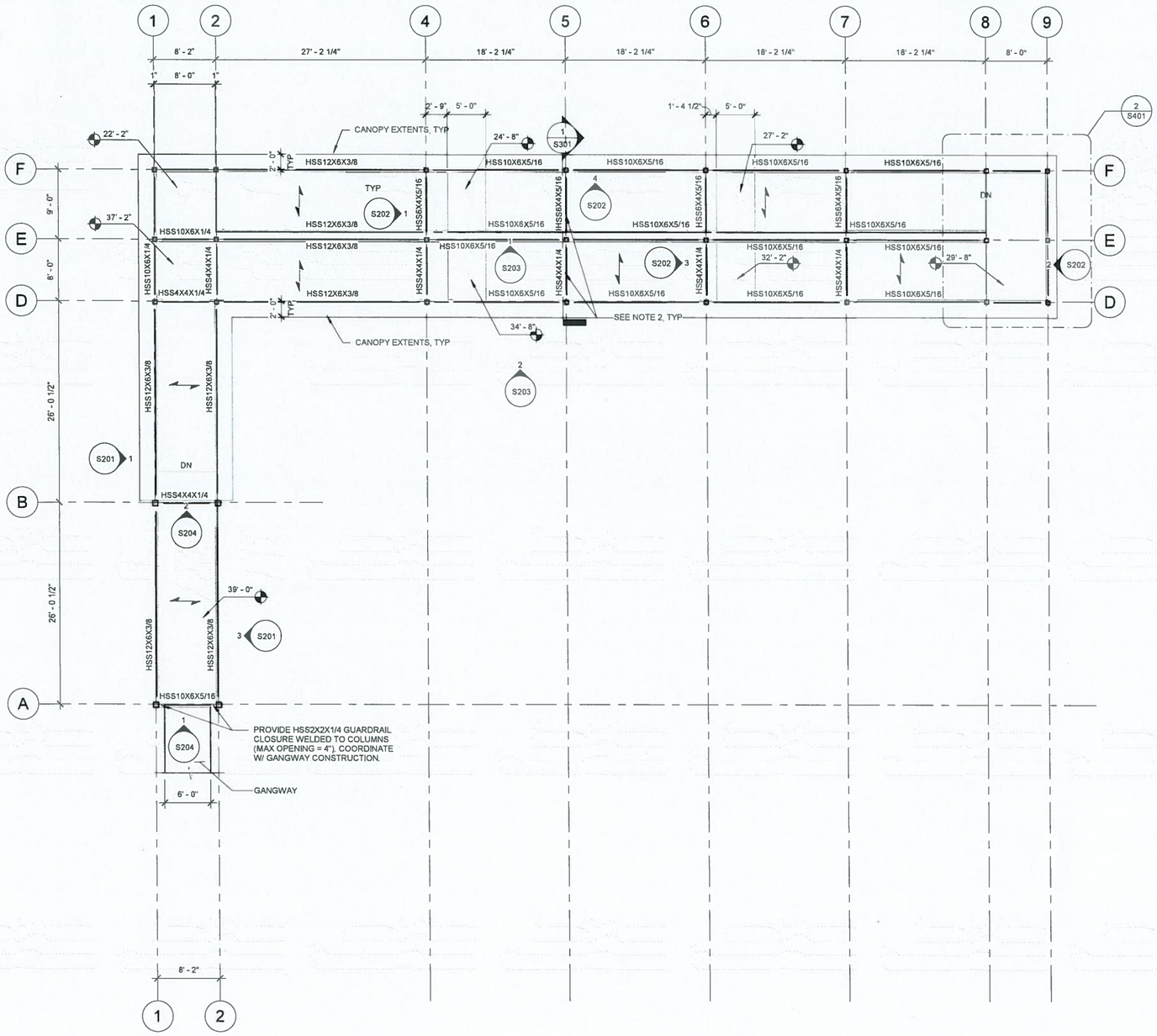
DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

SHEET TITLE
RAMP FRAMING PLAN - INTERMEDIATE

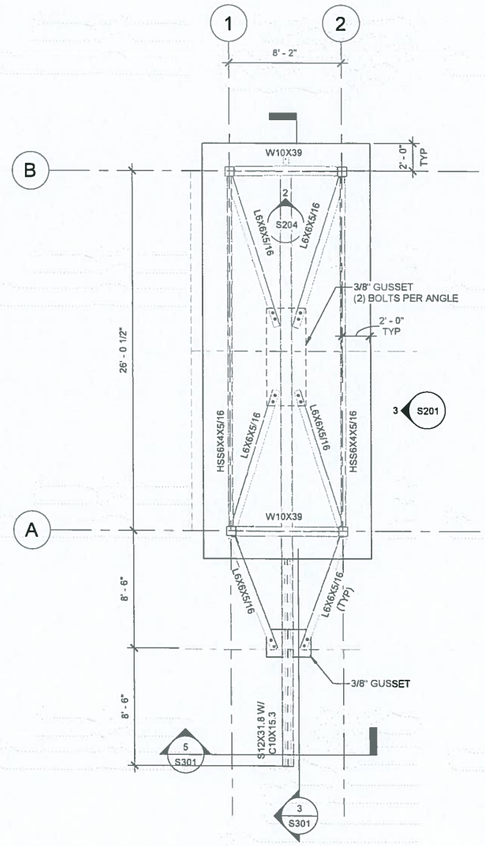
SHEET NUMBER
S103

CONSTRUCTION DOCUMENTS



EXISTING TERMINAL BUILDING

NOTE: CANVAS ON EXIST CANOPY SHALL BE REPLACED. SEE S801.



1 S104 RAMP FRAMING PLAN - UPPER

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

NOTES:

1. T/STL STRINGER AT PLATFORM & RAMP EDGES IS +4" FROM T/DECK.
2. FOR TRANSVERSE HSS BEAM ELEVATIONS, SEE S200 SHEETS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.
4. PROVIDE CONTRACTION CONTROL JT'S AT MAX 5'-0" OC AT RAMPS, TYP. SEE S501 FOR DETAIL.
5. ⟶ INDICATES FLOOR METAL DECK SPAN DIRECTION. SEE SHEET S012 FOR DECK NOTES.

2 S104 MONORAIL SUPPORT FRAMING PLAN

SCALE: 3/16" = 1'-0"

4 0 4 8 12

SCALE: 3/16" = 1'-0"

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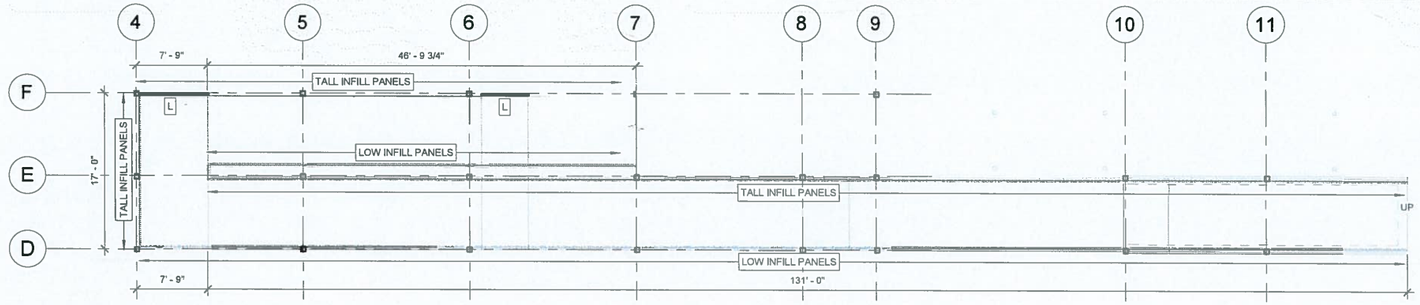
SHEET TITLE

RAMP FRAMING PLAN - UPPER

SHEET NUMBER

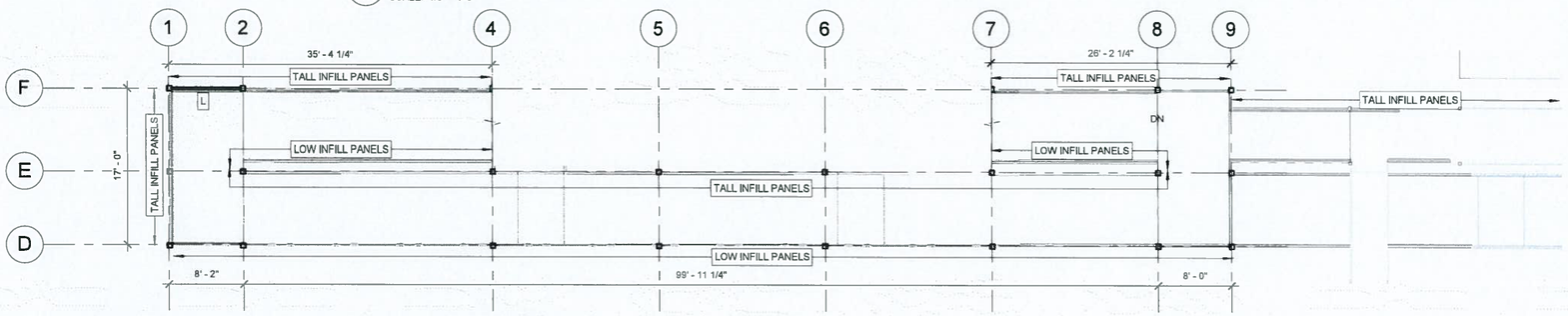
S104

CONSTRUCTION DOCUMENTS



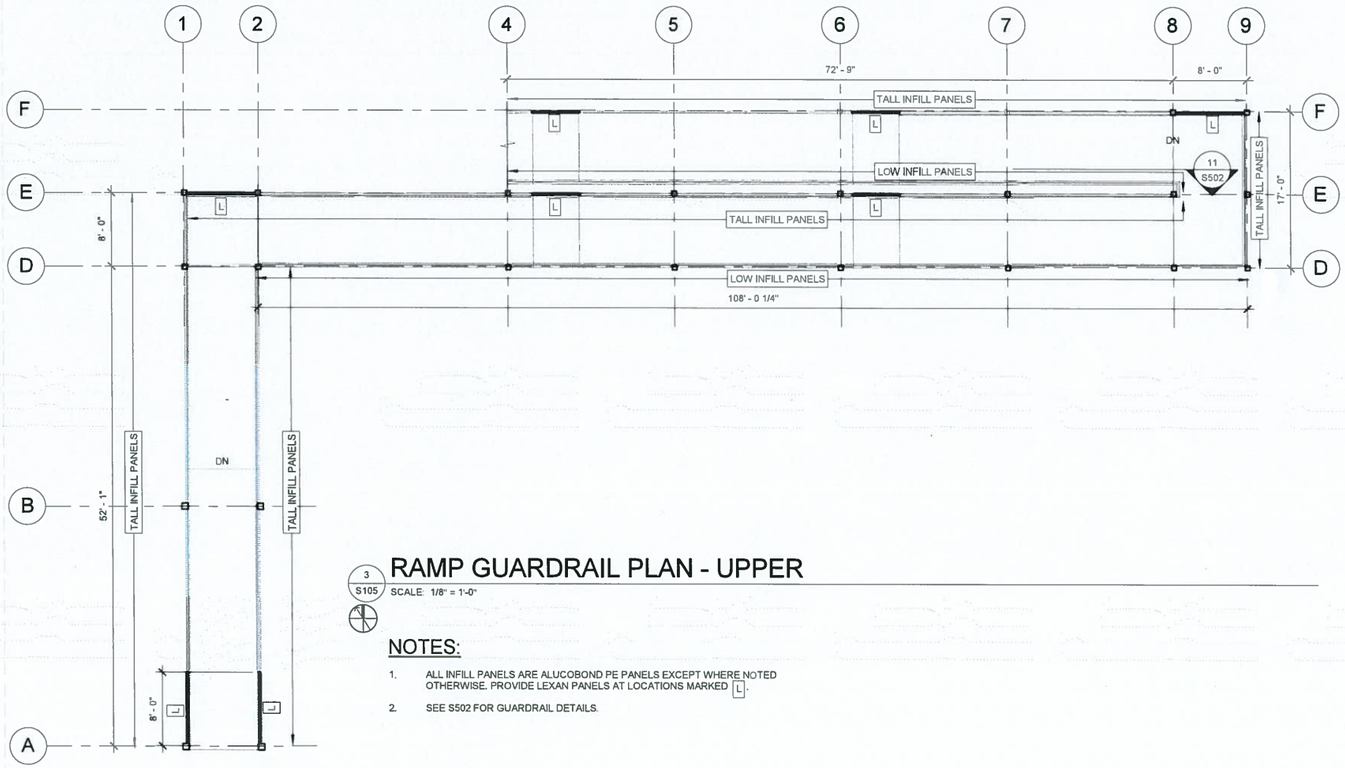
1 S105 RAMP GUARDRAIL PLAN - LOWER

SCALE: 1/8" = 1'-0"



2 S105 RAMP GUARDRAIL PLAN - INTERMEDIATE

SCALE: 1/8" = 1'-0"



3 S105 RAMP GUARDRAIL PLAN - UPPER

SCALE: 1/8" = 1'-0"

NOTES:

1. ALL INFILL PANELS ARE ALUCOBOND PE PANELS EXCEPT WHERE NOTED OTHERWISE. PROVIDE LEXAN PANELS AT LOCATIONS MARKED [L].
2. SEE S502 FOR GUARDRAIL DETAILS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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101-0003-027

SHEET TITLE
RAMP GUARDRAIL PLANS

SHEET NUMBER
S105

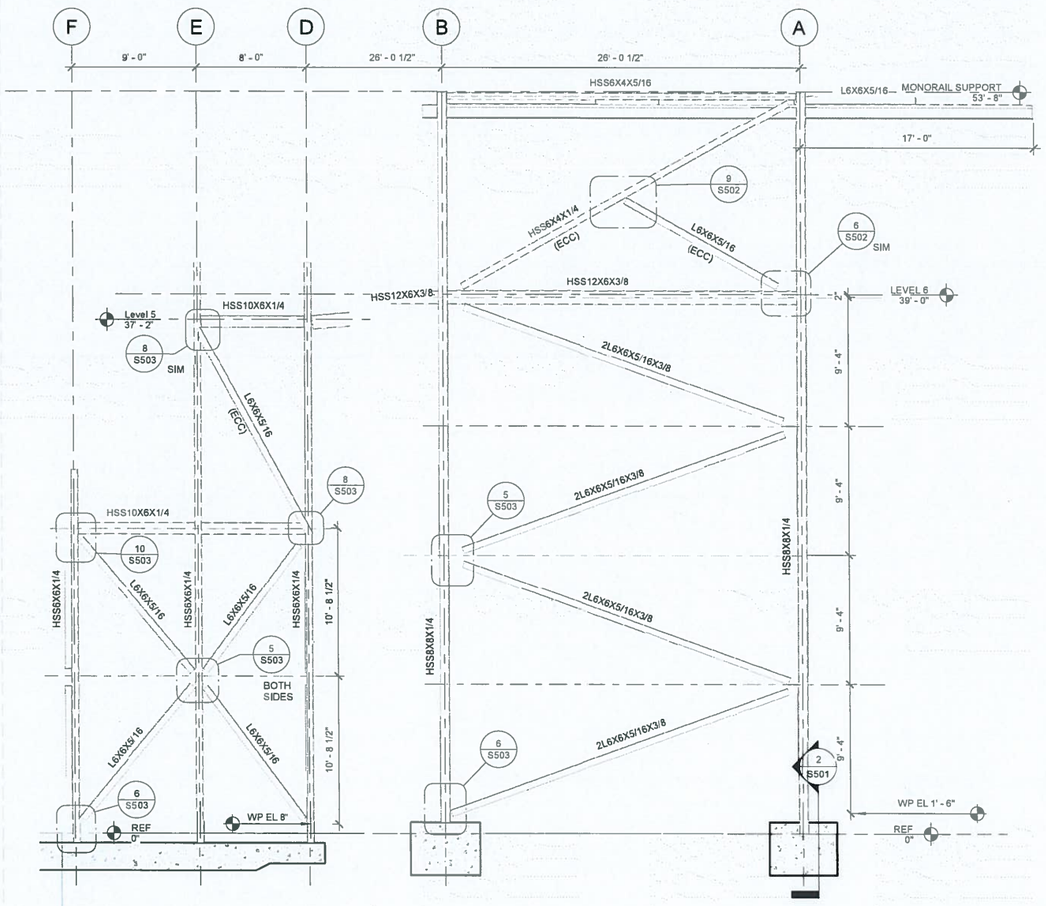
CONSTRUCTION DOCUMENTS

FRAMING ELEVATION NOTES:

INDICATES TOP OF RAMP ELEVATION.

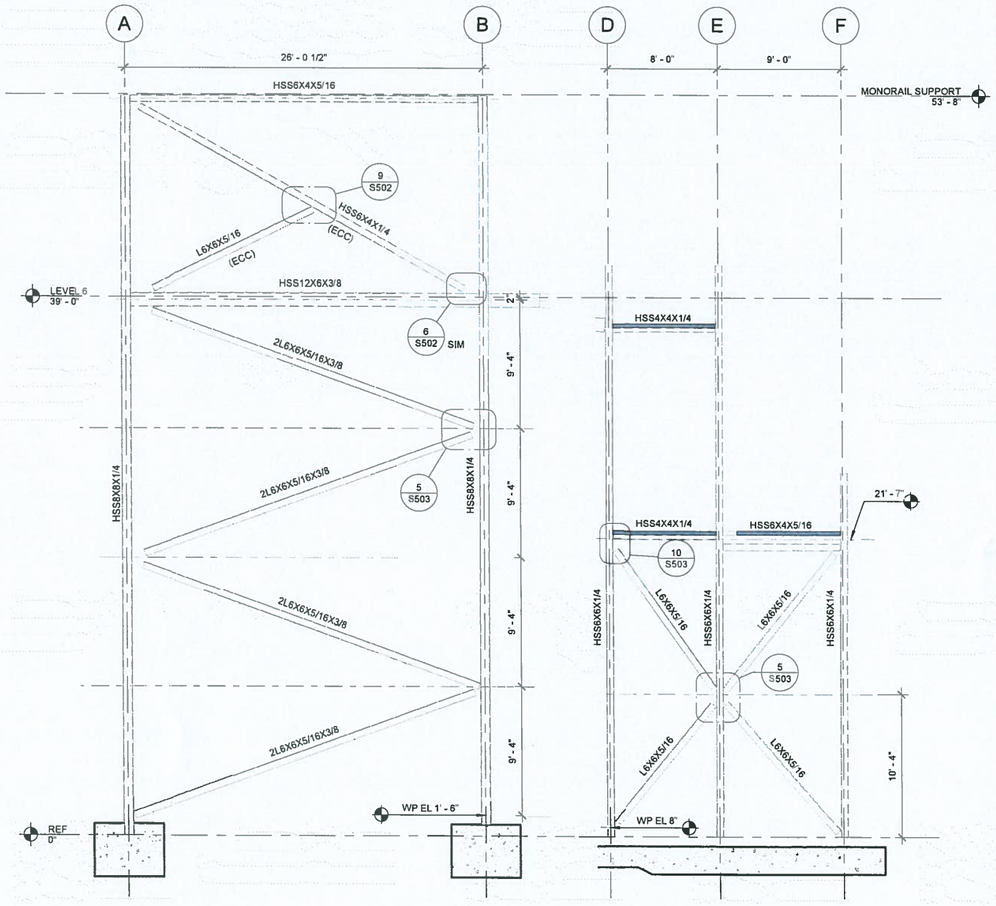
(+/- X'-X") INDICATES WORK POINT ELEVATION ABOVE OR BELOW TOP OF RAMP.

1. T/STL STRINGER IS +4" FROM T/DECK.
2. FOR LANDING DIMENSIONS AND ELEVATIONS. SEE FRAMING PLANS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.
4. (ECC) INDICATES ECCENTRIC BRACE. FOR WHICH FACE OF BRACE IS ALIGNED TO FACE OF SUPPORTING HSS MEMBERS AT END CONNECTIONS.



1 S201 GRID 1 FRAMING ELEVATION

SCALE: 3/16" = 1'-0"



3 S201 GRID 2 FRAMING ELEVATION

SCALE: 3/16" = 1'-0"

4 0 4 8 12

SCALE: 3/16" = 1'-0"

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RS&H

Engineer of Record:
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5620 * LCC000210 * GB238

JAXPORT
JACKSONVILLE PORT AUTHORITY

JAXPORT CRUISE TERMINAL GANGWAY

CONSULTANTS

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	8/16/18
REVIEWED BY:	REP
DRAWN BY:	PFM
DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

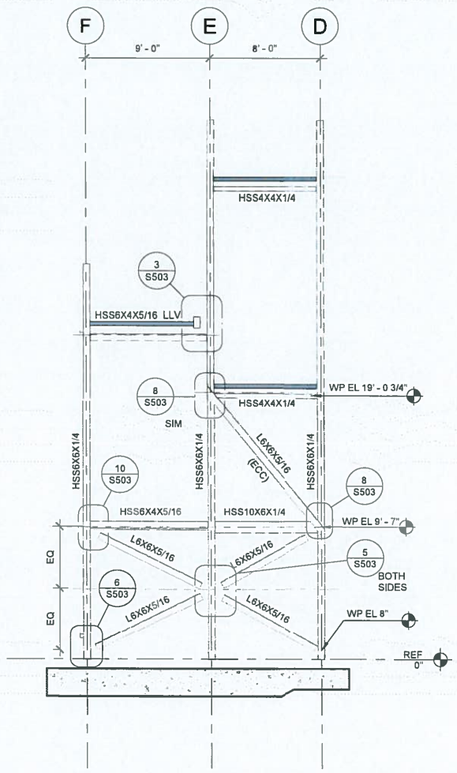
SHEET TITLE

FRAMING ELEVATIONS - 1

SHEET NUMBER

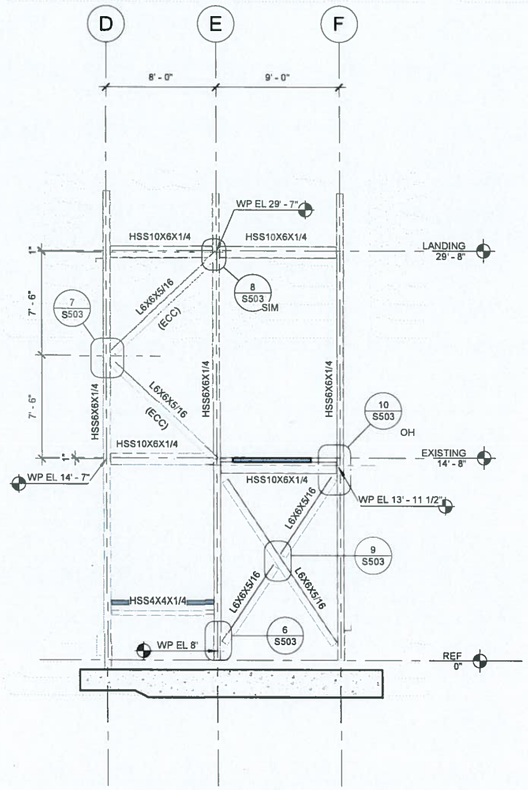
S201

CONSTRUCTION DOCUMENTS



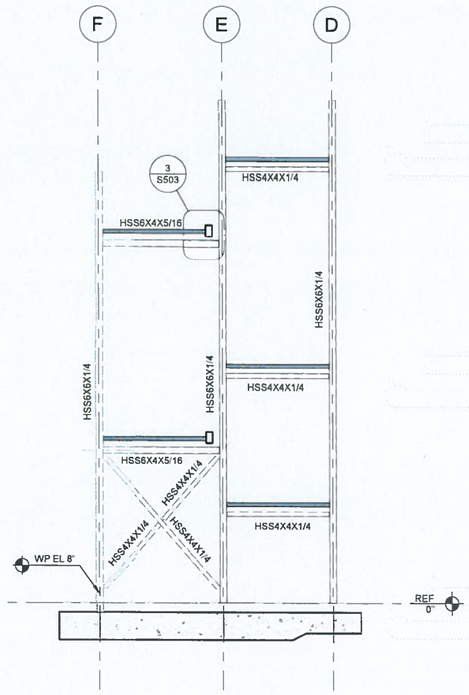
1 S202 GRID 4 FRAMING ELEVATION

SCALE: 3/16" = 1'-0"



2 S202 GRID 9 FRAMING ELEVATION

SCALE: 3/16" = 1'-0"



3 S202 GRID 6 FRAMING ELEVATION

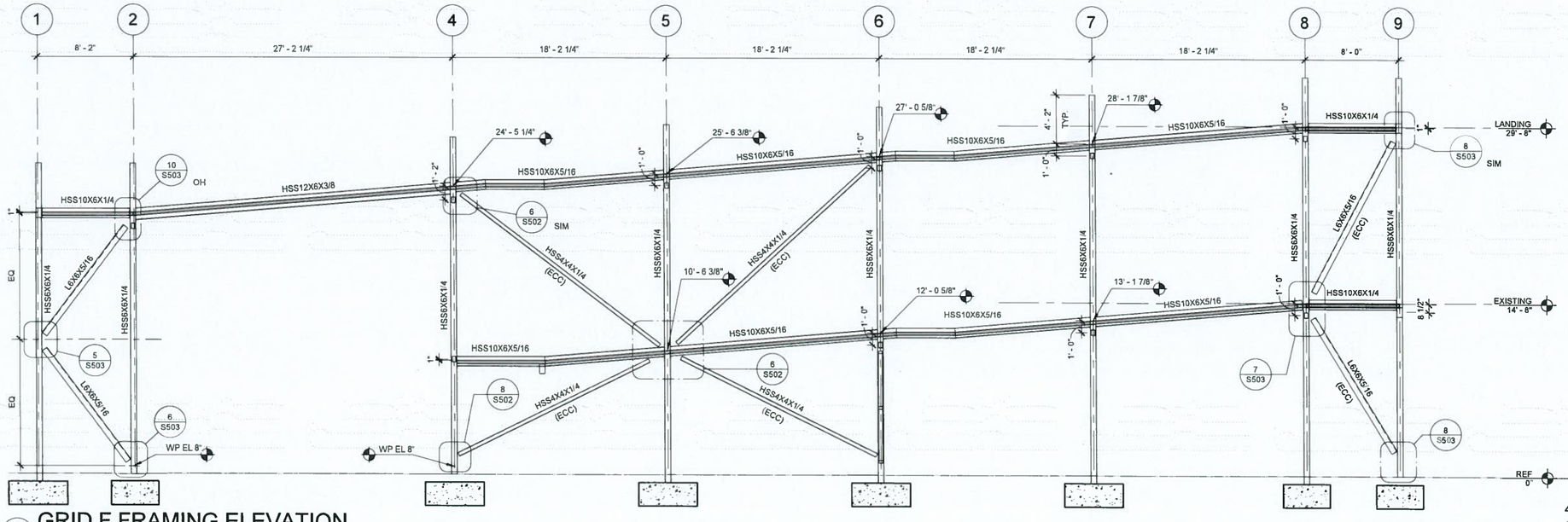
SCALE: 3/16" = 1'-0"

FRAMING ELEVATION NOTES:

INDICATES TOP OF RAMP ELEVATION.

(+/- X'-X") INDICATES WORK POINT ELEVATION ABOVE OR BELOW TOP OF RAMP.

1. T/STL STRINGER IS +4" FROM T/DECK.
2. FOR LANDING DIMENSIONS AND ELEVATIONS, SEE FRAMING PLANS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.
4. (ECC) INDICATES ECCENTRIC BRACE. FOR WHICH FACE OF BRACE IS ALIGNED TO FACE OF SUPPORTING HSS MEMBERS AT END CONNECTIONS.



4 S202 GRID F FRAMING ELEVATION

SCALE: 3/16" = 1'-0"

4 0 4 8 12

SCALE: 3/16" = 1'-0"

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SHEET TITLE

FRAMING ELEVATIONS - 2

SHEET NUMBER

S202

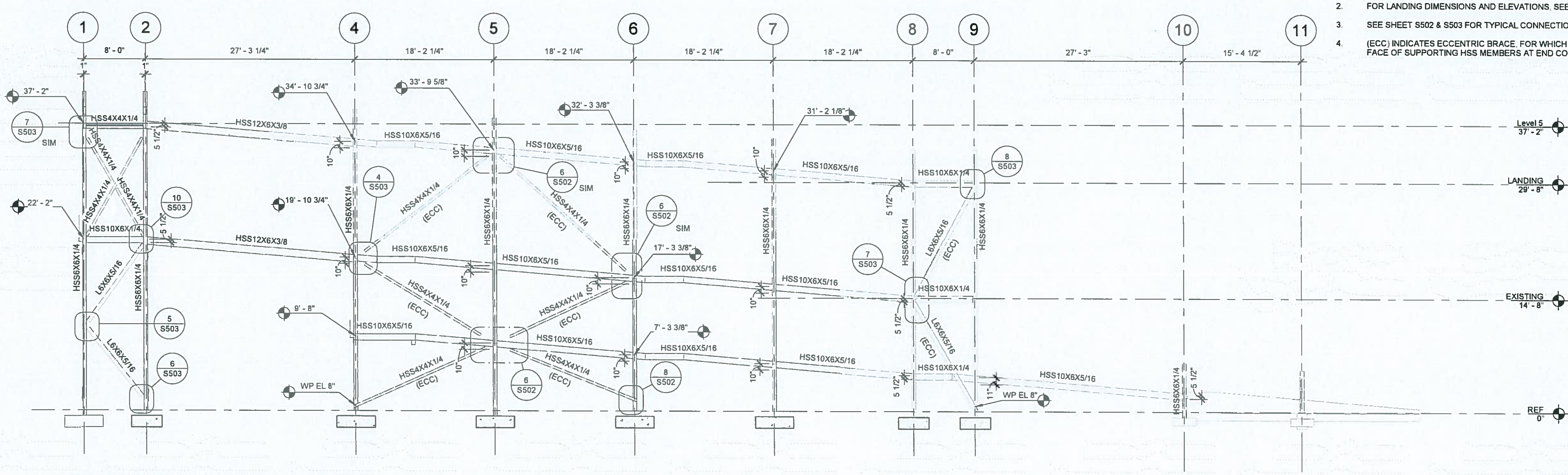
CONSTRUCTION DOCUMENTS

FRAMING ELEVATION NOTES:

INDICATES TOP OF RAMP ELEVATION.

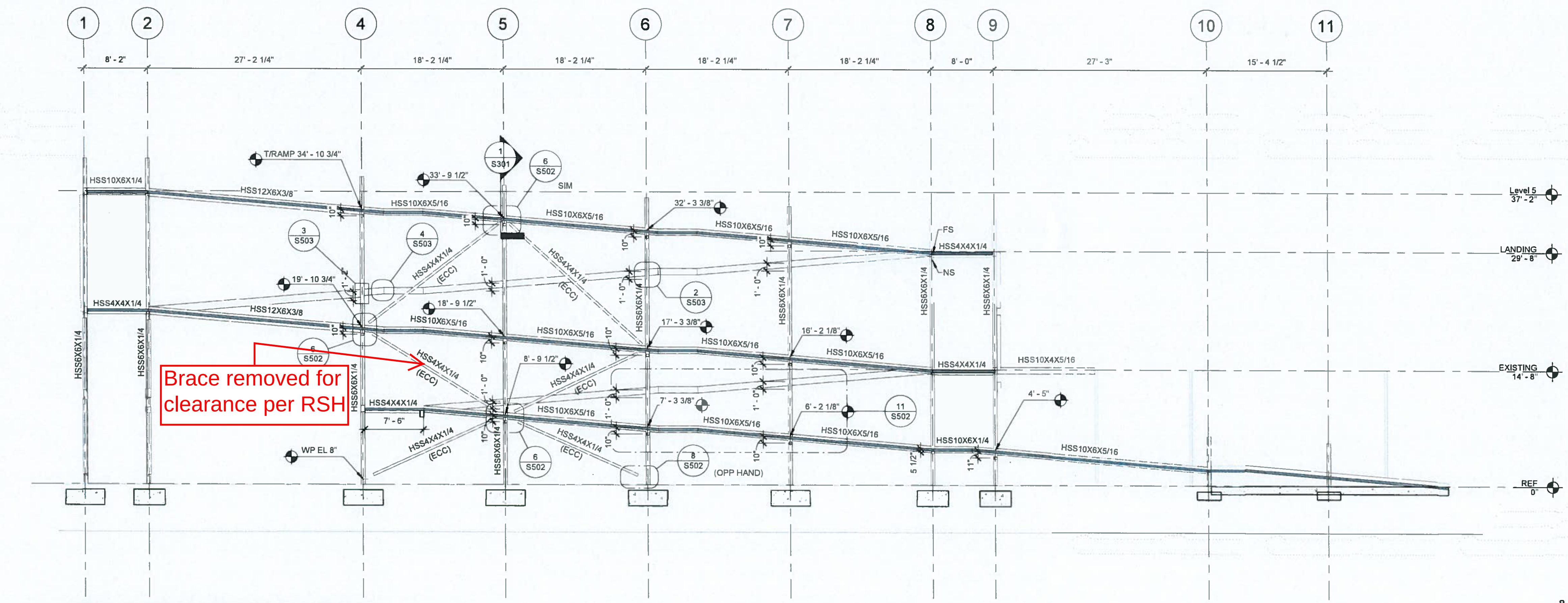
(+/- X'-X") INDICATES WORK POINT ELEVATION ABOVE OR BELOW TOP OF RAMP.

1. T/STL STRINGER IS +4" FROM T/DECK.
2. FOR LANDING DIMENSIONS AND ELEVATIONS, SEE FRAMING PLANS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.
4. (ECC) INDICATES ECCENTRIC BRACE, FOR WHICH FACE OF BRACE IS ALIGNED TO FACE OF SUPPORTING HSS MEMBERS AT END CONNECTIONS.



GRID D FRAMING ELEVATION

2 / S203 SCALE: 1/8" = 1'-0"



GRID E FRAMING ELEVATION

1 / S203 SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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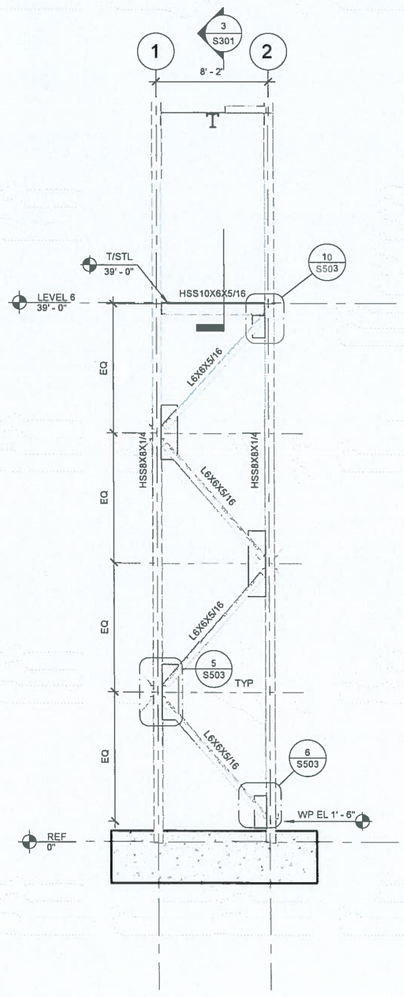
SHEET TITLE
FRAMING ELEVATIONS - 3

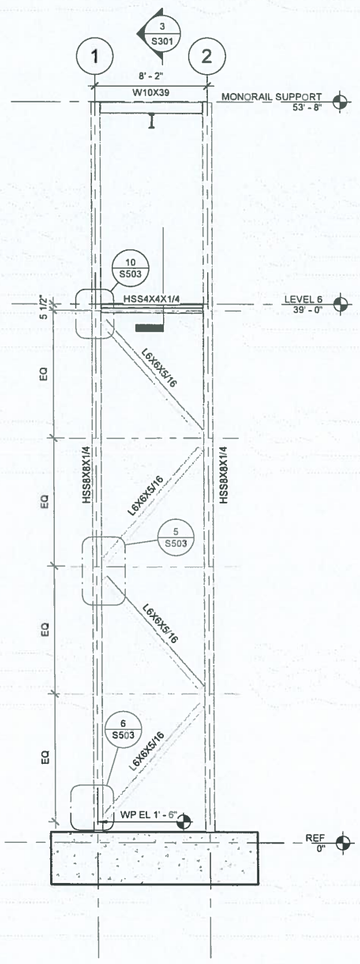
SHEET NUMBER
S203

CONSTRUCTION DOCUMENTS



1 S204 GRID A FRAMING ELEVATION

SCALE: 3/16" = 1'-0"



2 S204 GRID B FRAMING ELEVATION

SCALE: 3/16" = 1'-0"

FRAMING ELEVATION NOTES:

INDICATES TOP OF RAMP ELEVATION.

(+/- X'-X") INDICATES WORK POINT ELEVATION ABOVE OR BELOW TOP OF RAMP.

1. T/STL STRINGER IS +4" FROM T/DECK.
2. FOR LANDING DIMENSIONS AND ELEVATIONS, SEE FRAMING PLANS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.
4. (ECC) INDICATES ECCENTRIC BRACE, FOR WHICH FACE OF BRACE IS ALIGNED TO FACE OF SUPPORTING HSS MEMBERS AT END CONNECTIONS.

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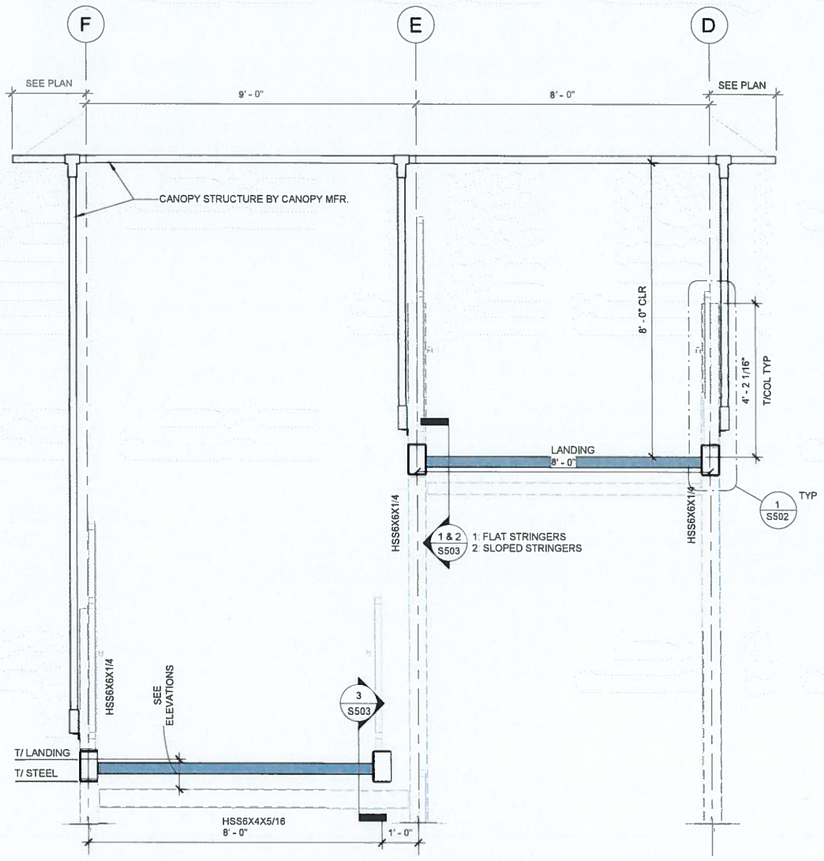
SHEET TITLE

FRAMING ELEVATIONS - 4

SHEET NUMBER

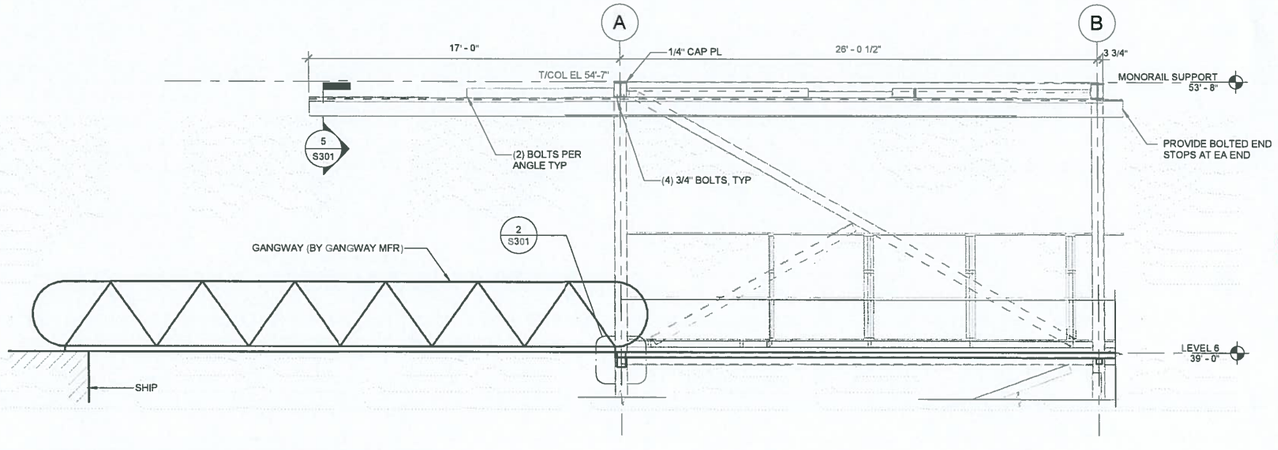
S204

CONSTRUCTION DOCUMENTS



1 S301 TYPICAL RAMP SECTION

SCALE 1/2" = 1'-0"

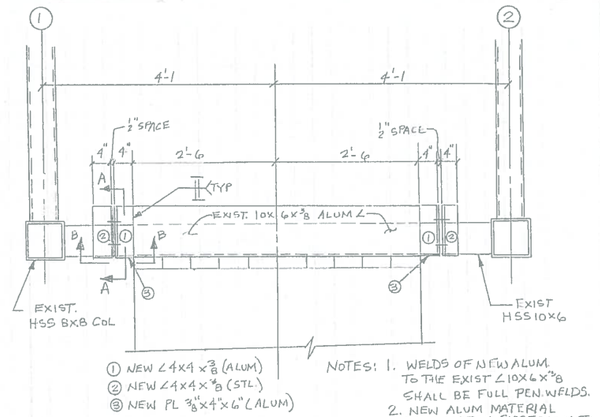


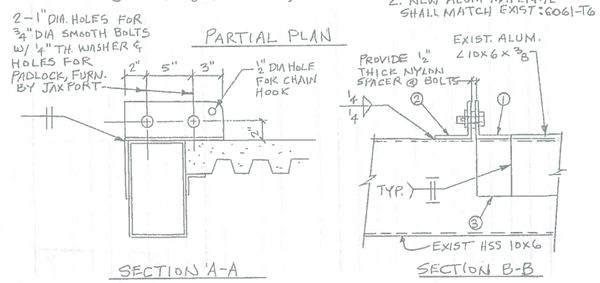
3 S301 MONORAIL SUPPORT SECTION

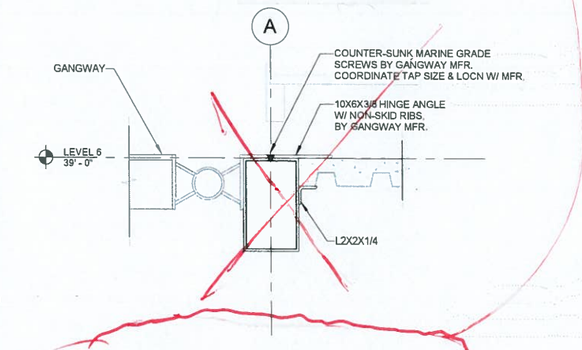
SCALE 1/4" = 1'-0"

RS&H

SUBJECT JAXPORT CRUISE TERMINAL
DESIGNER RP
CHECKER
PROJ #
SHEET OF
DATE 3/18/19
DATE







2 S301 GANGWAY CONN DETAIL

SCALE 1 1/2" = 1'-0"

Revised

5 S301 SECTION

SCALE 3/4" = 1'-0"

4 0 4 8
SCALE: 1/4" = 1'-0"
2 0 2 4
SCALE: 1/2" = 1'-0"
1 0 1 2 3
SCALE: 3/4" = 1'-0"

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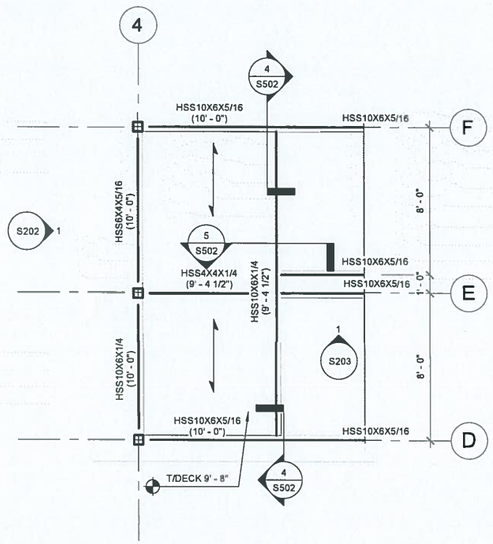
SHEET TITLE

STRUCTURAL SECTIONS

SHEET NUMBER

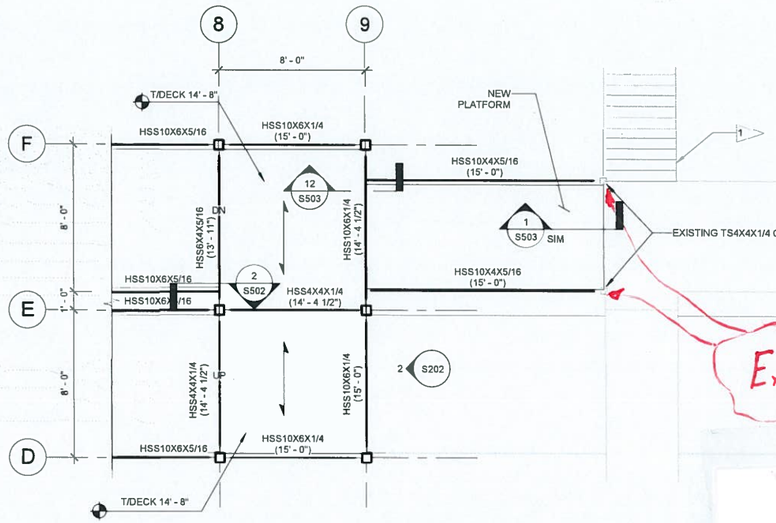
S301

CONSTRUCTION DOCUMENTS



1 S401 ENLARGED LANDING PLAN - EL. 9'-8"

SCALE 1/4" = 1'-0"



3 S401 ENLARGED LANDING PLAN - EL. 14'-8"

SCALE 1/4" = 1'-0"

ENLARGED LANDING PLAN NOTES:

INDICATES FLOOR METAL DECK SPAN DIRECTION. SEE SHEET S012 FOR DECK NOTES.

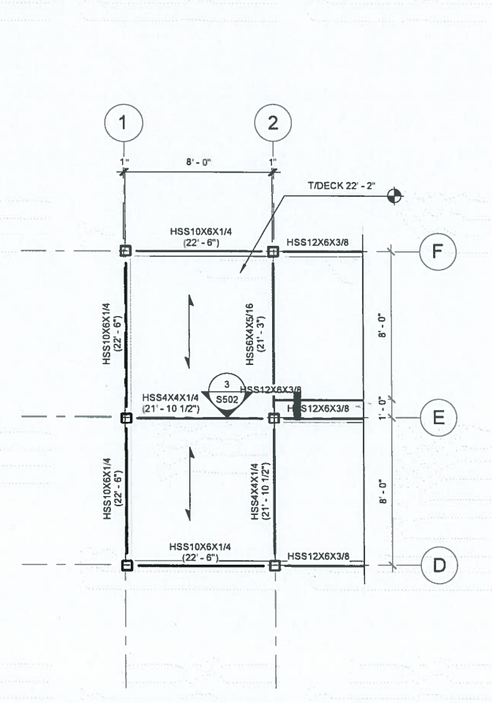
(X'-X") INDICATES T/STL BEAM ELEVATION

1. T/STL STRINGER IS +4" FROM T/DECK.
2. FOR LANDING DIMENSIONS AND ELEVATIONS, SEE FRAMING PLANS.
3. SEE SHEET S502 & S503 FOR TYPICAL CONNECTIONS.

FLAG NOTES:

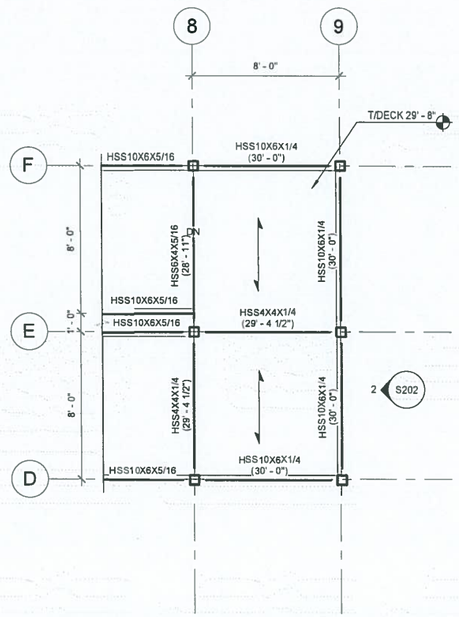
1 CONTRACTOR SHALL DESIGN AND CONSTRUCT A TEMPORARY ACCESS STAIR FROM EXISTING LEVEL 14'-8". MODIFY EXISTING HANDRAIL TO MEET FBC AND OSHA REQUIREMENTS. STAIRS SHALL BE REMOVED AND HANDRAIL RESTORED AFTER CONSTRUCTION.

Expansion Joint Added



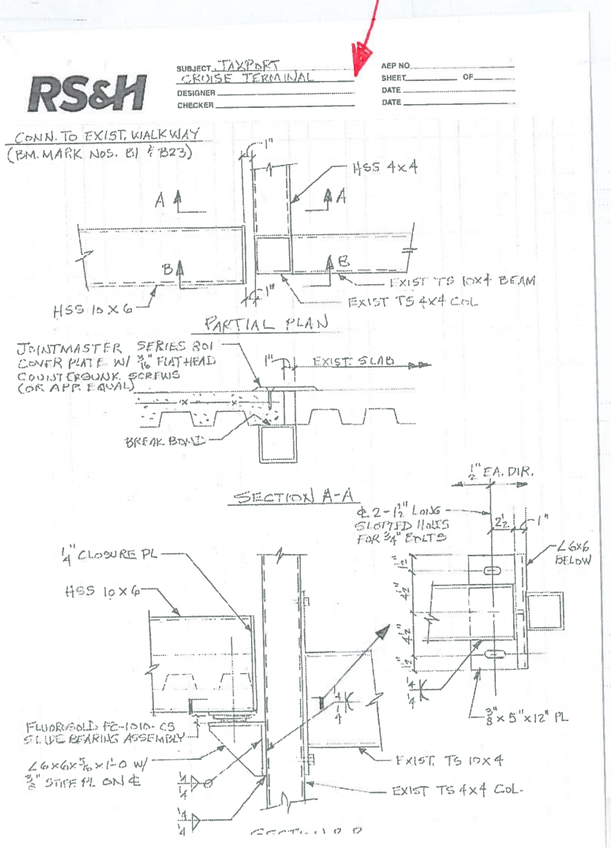
4 S401 ENLARGED LANDING PLAN - EL. 22'-2"

SCALE: 1/4" = 1'-0"



2 S401 ENLARGED LANDING PLAN - EL. 29'-8"

SCALE: 1/4" = 1'-0"



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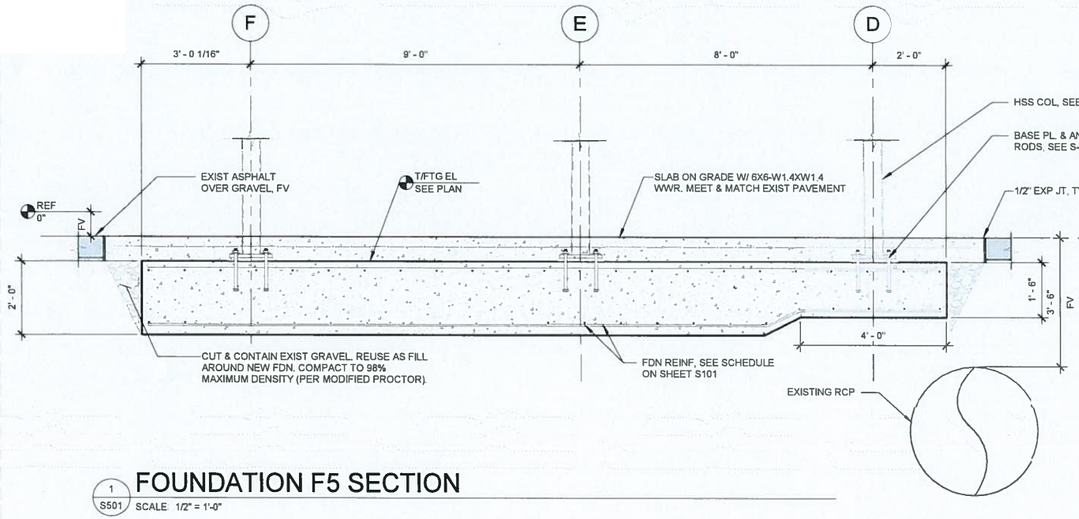
ENLARGED LANDING PLANS

SHEET NUMBER

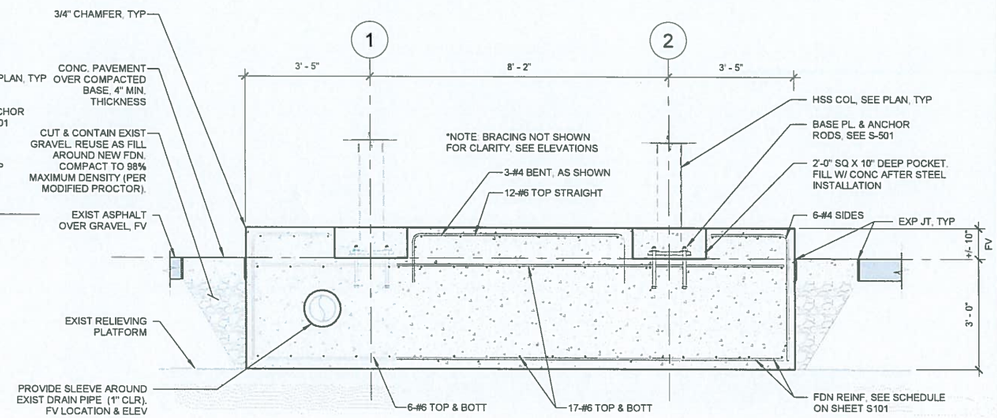
S401

CONSTRUCTION DOCUMENTS



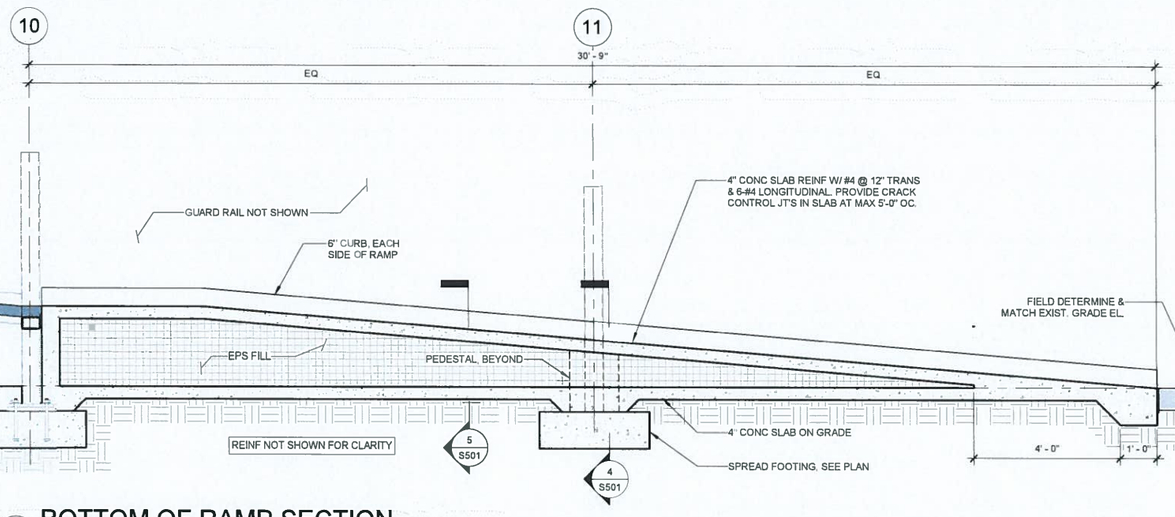
1 S501 FOUNDATION F5 SECTION

SCALE: 1/2" = 1'-0"



2 S501 FOUNDATION F15 SECTION

SCALE: 1/2" = 1'-0"

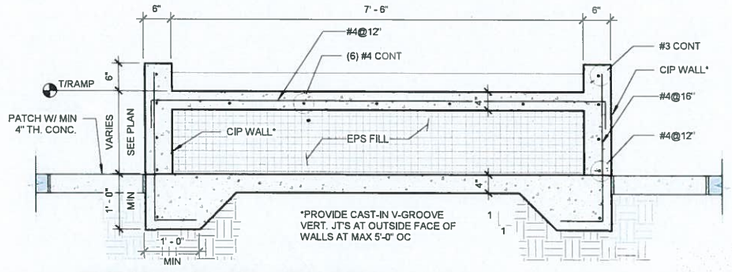


3 S501 BOTTOM OF RAMP SECTION

SCALE: 1/2" = 1'-0"

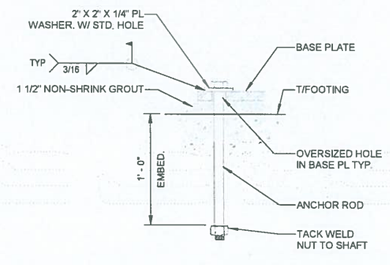
4 S501 PEDESTAL DETAIL

SCALE: 3/4" = 1'-0"



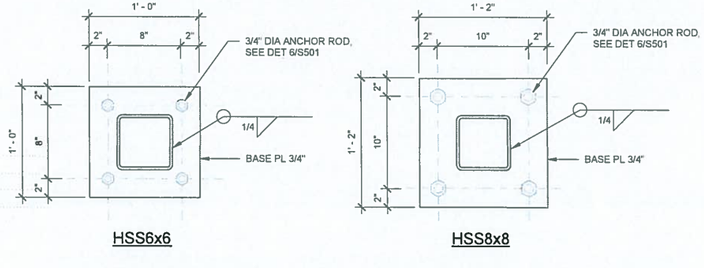
5 S501 TYPICAL RAMP SECTION

SCALE: 3/4" = 1'-0"



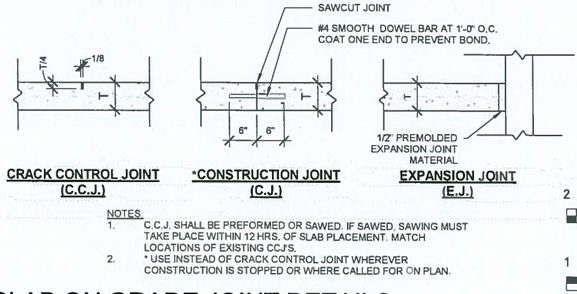
6 S501 TYPICAL ANCHOR ROD DETAIL

SCALE: 1 1/2" = 1'-0"



7 S501 TYPICAL BASE PLATE DETAILS

SCALE: 1 1/2" = 1'-0"



CRACK CONTROL JOINT (C.C.J.) | *CONSTRUCTION JOINT (C.J.) | EXPANSION JOINT (E.J.)

NOTES:
1. C.C.J. SHALL BE PREFORMED OR SAWED. IF SAWED, SAWING MUST TAKE PLACE WITHIN 12 HRS. OF SLAB PLACEMENT. MATCH LOCATIONS OF EXISTING CCJ'S.
2. * USE INSTEAD OF CRACK CONTROL JOINT WHEREVER CONSTRUCTION IS STOPPED OR WHERE CALLED FOR ON PLAN.

8 S501 SLAB ON GRADE JOINT DETAILS

SCALE: 3/4" = 1'-0"

2 0 2 4

SCALE: 1/2" = 1'-0"

1 0 1 2 3

SCALE: 3/4" = 1'-0"

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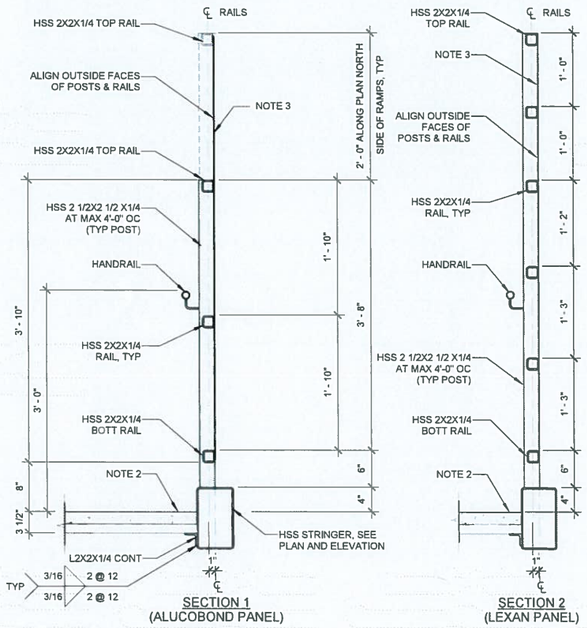
SHEET TITLE
FOUNDATION SECTIONS & DETAILS

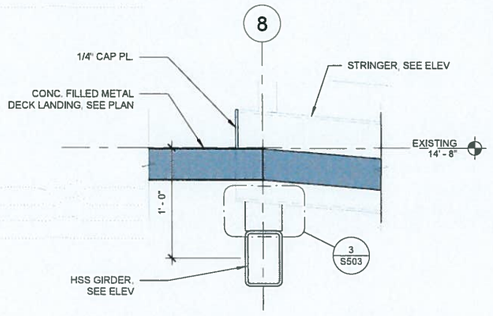
SHEET NUMBER
S501

CONSTRUCTION DOCUMENTS

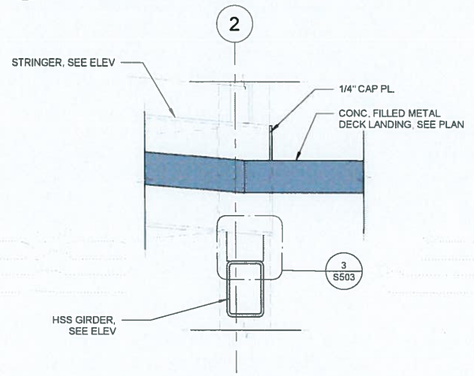


NOTES:
1. SEE PLAN ON SHEET S105 FOR PANEL & GUARDRAIL TYPE LOCATIONS.
2. 1 1/2" METAL DECK FILLED W/CONCRETE (3 1/2" TOTAL THICKNESS) SEE S012 FOR NOTES.
3. INFILL PANELS, SEE NOTES. PANELS SHALL BE ATTACHED TO ALL HORIZ. RAILS PER THE NOTES.

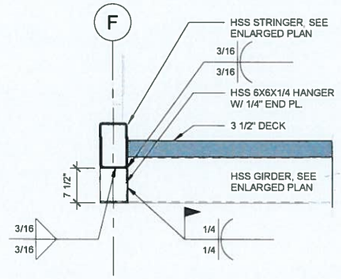
1 S502 GUARDRAIL DETAILS
SCALE: 1" = 1'-0"



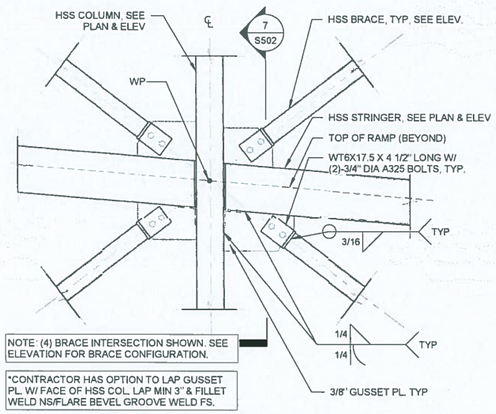
2 S502 LANDING STRINGER DETAIL 1
SCALE: 1 1/2" = 1'-0"



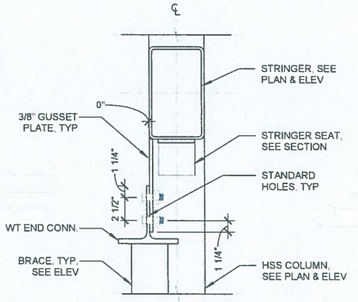
3 S502 LANDING STRINGER DETAIL 2
SCALE: 1 1/2" = 1'-0"



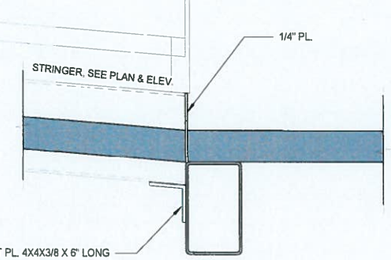
4 S502 EL 9-8 LANDING SECTION
SCALE: 3/4" = 1'-0"



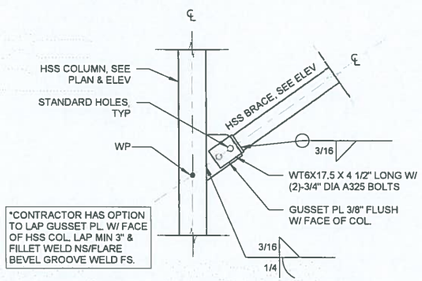
5 S502 EL 9-8 LANDING SECTION 2
SCALE: 1 1/2" = 1'-0"



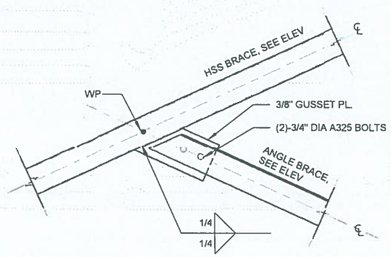
6 S502 BRACE DETAIL 3A
SCALE: 3/4" = 1'-0"



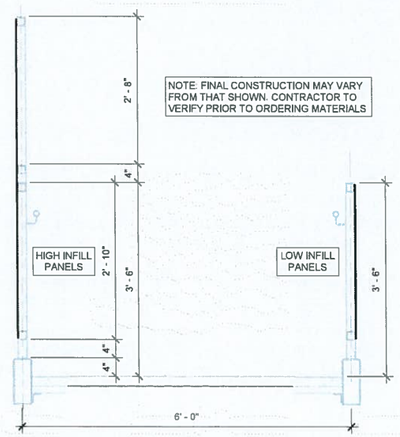
7 S502 BRACE 3B SECTION
SCALE: 1 1/2" = 1'-0"



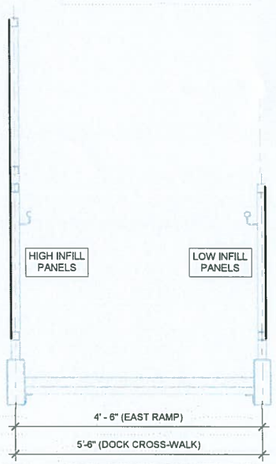
8 S502 ECCENTRIC BRACE DETAIL 4
SCALE: 3/4" = 1'-0"



9 S502 BRACE DETAIL
SCALE: 3/4" = 1'-0"

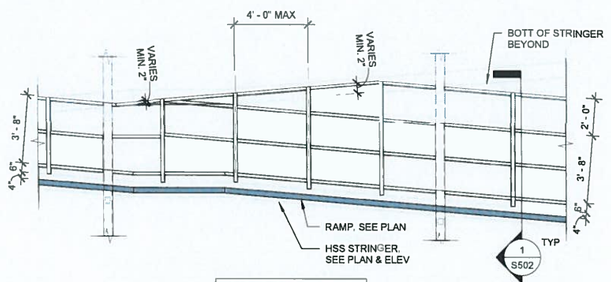


SECTION THRU EXISTING WALKWAY



SECTION THRU EXISTING RAMPS
DOCK CROSS-WALK SIMILAR

10 S502 EXIST RAMP PANEL INFILL SECTIONS
SCALE: 3/4" = 1'-0"



NOTE: HANDRAIL NOT SHOWN

11 S502 GUARDRAIL ELEVATION
SCALE: 1/4" = 1'-0"

1 0 1 2 3
SCALE: 3/4" = 1'-0"
1 0 1 2
SCALE: 1" = 1'-0"
1 0 1
SCALE: 1 1/2" = 1'-0"

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JAXPORT
JACKSONVILLE PORT AUTHORITY

JAXPORT CRUISE TERMINAL GANGWAY

CONSULTANTS

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS

NO.	DESCRIPTION	DATE

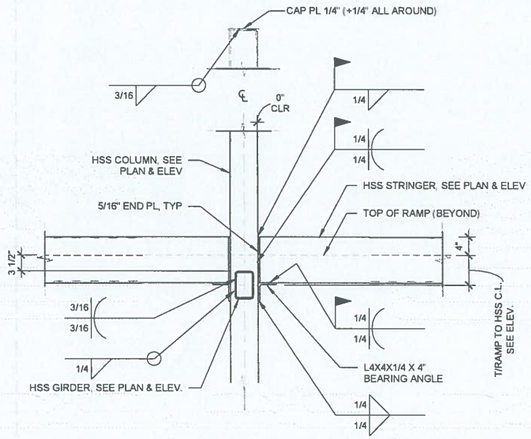
DATE ISSUED:	8/16/18
REVIEWED BY:	REP
DRAWN BY:	PFM
DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

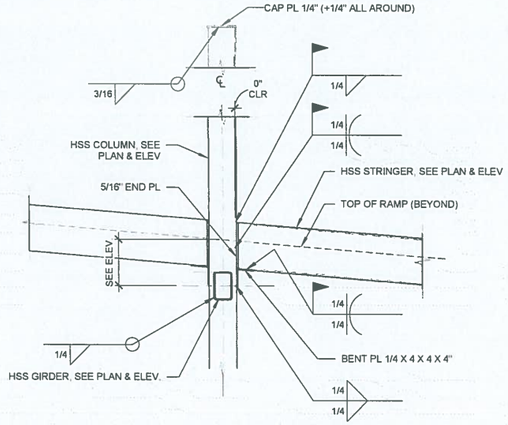
SHEET TITLE
FRAMING SECTIONS & DETAILS - 1

SHEET NUMBER
S502

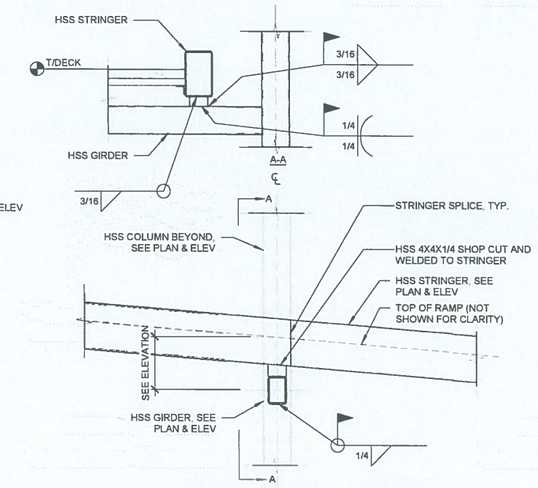
CONSTRUCTION DOCUMENTS



1 S503 **BEAM CONN DETAIL 1**
SCALE: 3/4" = 1'-0"

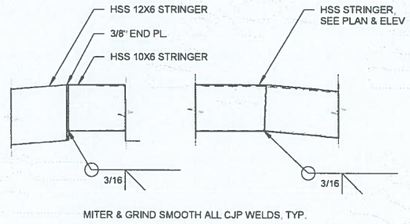


2 S503 **BEAM CONN DETAIL 2**
SCALE: 3/4" = 1'-0"

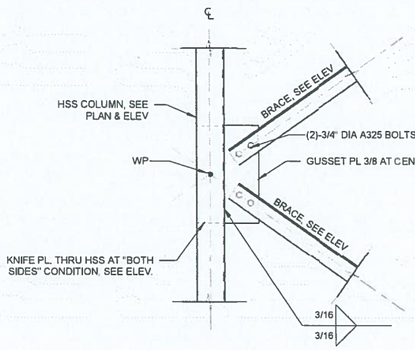


3 S503 **BEAM CONN DETAIL 4**
SCALE: 3/4" = 1'-0"

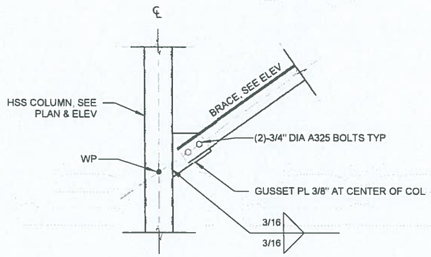
NOTES:
1. TOP LEG OF ANGLES SHALL BE HORIZONTAL.
2. WELD ANGLE BRACES ALL AROUND MINIMUM DIMENSIONS SHOWN ARE FOR GUSSET SIZE DETERMINATION.
3. SEAL ALL GAPS WITH SILICONE SEALANT PRIOR TOUCH-UP PAINTING.



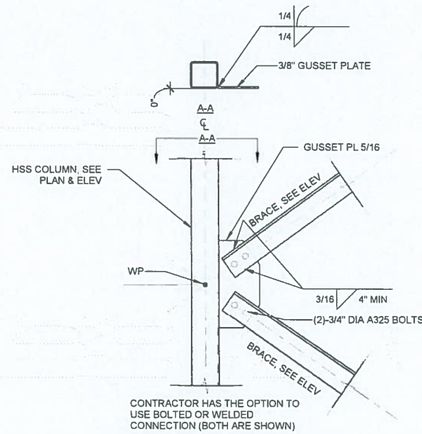
4 S503 **HSS BEAM SPLICE DETAILS**
SCALE: 3/4" = 1'-0"



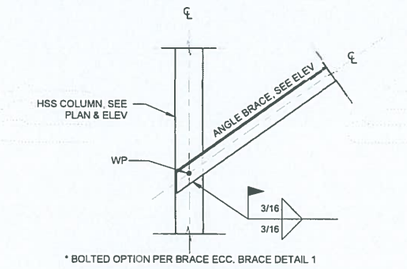
5 S503 **BRACE DETAIL 1**
SCALE: 3/4" = 1'-0"



6 S503 **BRACE DETAIL 2**
SCALE: 3/4" = 1'-0"



7 S503 **BRACE DETAIL 3B**
SCALE: 3/4" = 1'-0"



8 S503 **BRACE DETAIL 4**
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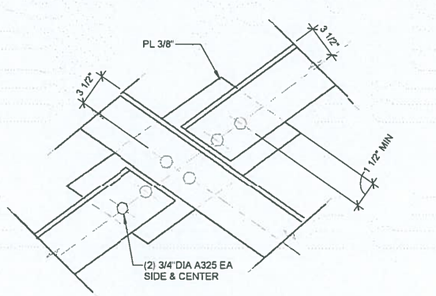
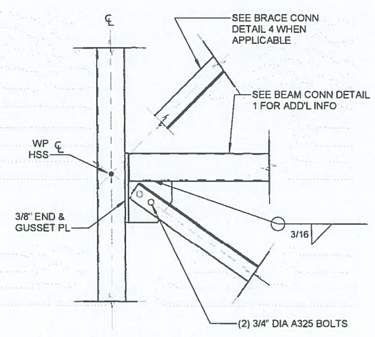
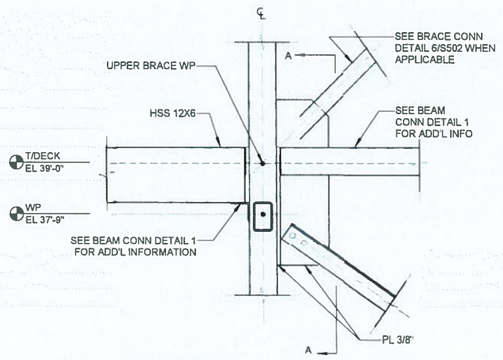
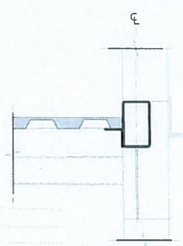


9 S503 **BRACE DETAIL 5**
SCALE: 1 1/2" = 1'-0"

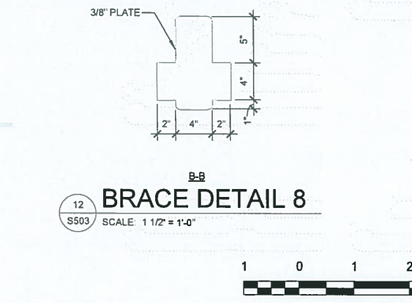


10 S503 **BRACE DETAIL 6**
SCALE: 3/4" = 1'-0"





11 S503 **BRACE DETAIL 7**
SCALE: 3/4" = 1'-0"



12 S503 **BRACE DETAIL 8**
SCALE: 1 1/2" = 1'-0"

1 0 1 2 3
SCALE: 3/4" = 1'-0"
1 0 1
SCALE: 1 1/2" = 1'-0"

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JAXPORT
JACKSONVILLE PORT AUTHORITY

JAXPORT CRUISE TERMINAL GANGWAY

CONSULTANTS

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS

NO.	DESCRIPTION	DATE

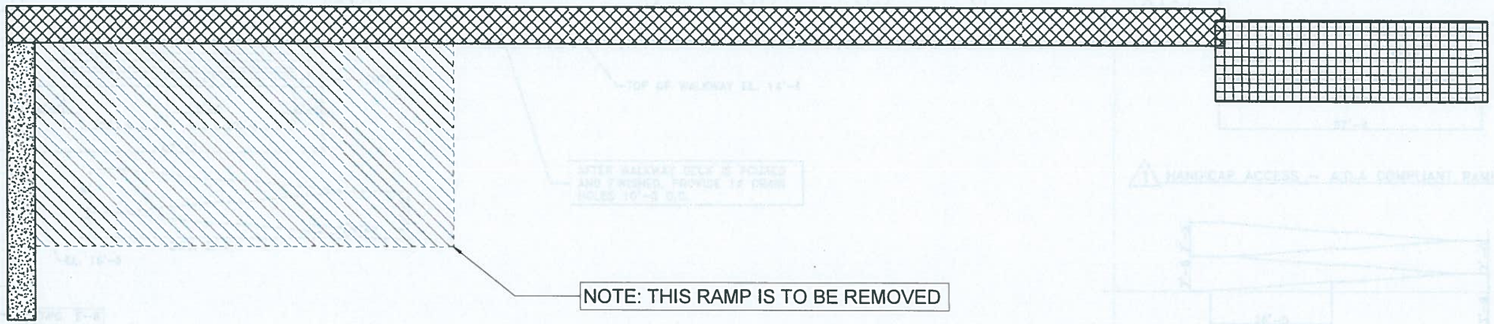
DATE ISSUED:	8/16/18
REVIEWED BY:	REP
DRAWN BY:	PFM
DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

SHEET TITLE
FRAMING SECTIONS & DETAILS - 2

SHEET NUMBER
S503

CONSTRUCTION DOCUMENTS



EXIST SHEET A-1

SCALE. 1/16" = 1'-0"

NOTE:
THIS SHEET IS A DUPLICATION OF ORIGINAL COSTRUCTION DOCUMENTS, AND IS BEING PROVIDED FOR INFORMATION, ONLY. FIELD VERIFY AS BUILT CONDITIONS.

PATTERN LEGEND:

- PROVIDE PANEL INFILL, ONLY (NO CANVAS)
- PROVIDE CANVAS, ONLY (NO PANEL INFILL)
- PROVIDE PANEL INFILL & CANVAS

C:\Users\mullp\Documents\1010003026_JAXPORT Cruise Gangway_S_R17_pmull.rvt

8/17/2018 12:51:31 PM

RS&H

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DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

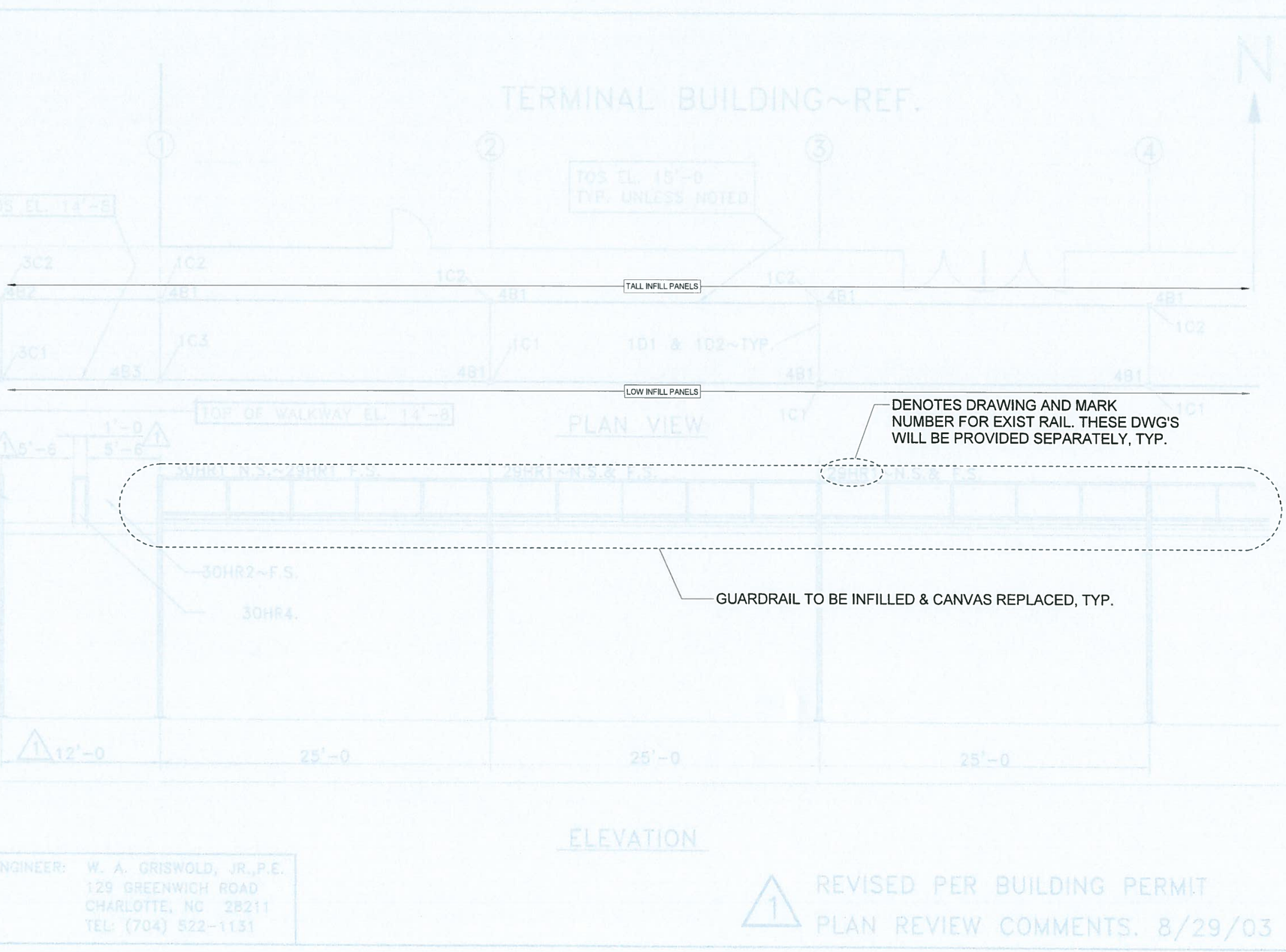
SHEET TITLE

REFERENCE DRAWING-1

SHEET NUMBER

S801

CONSTRUCTION DOCUMENTS



EXIST SHEET E-1

SCALE: NTS

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ACON CONSTRUCTION CO., INC.

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	**8/16/18**
REVIEWED BY:	**REP**
DRAWN BY:	**PFM**
DESIGNED BY:	**DMH**

RS&H PROJECT NO.
101-0003-027

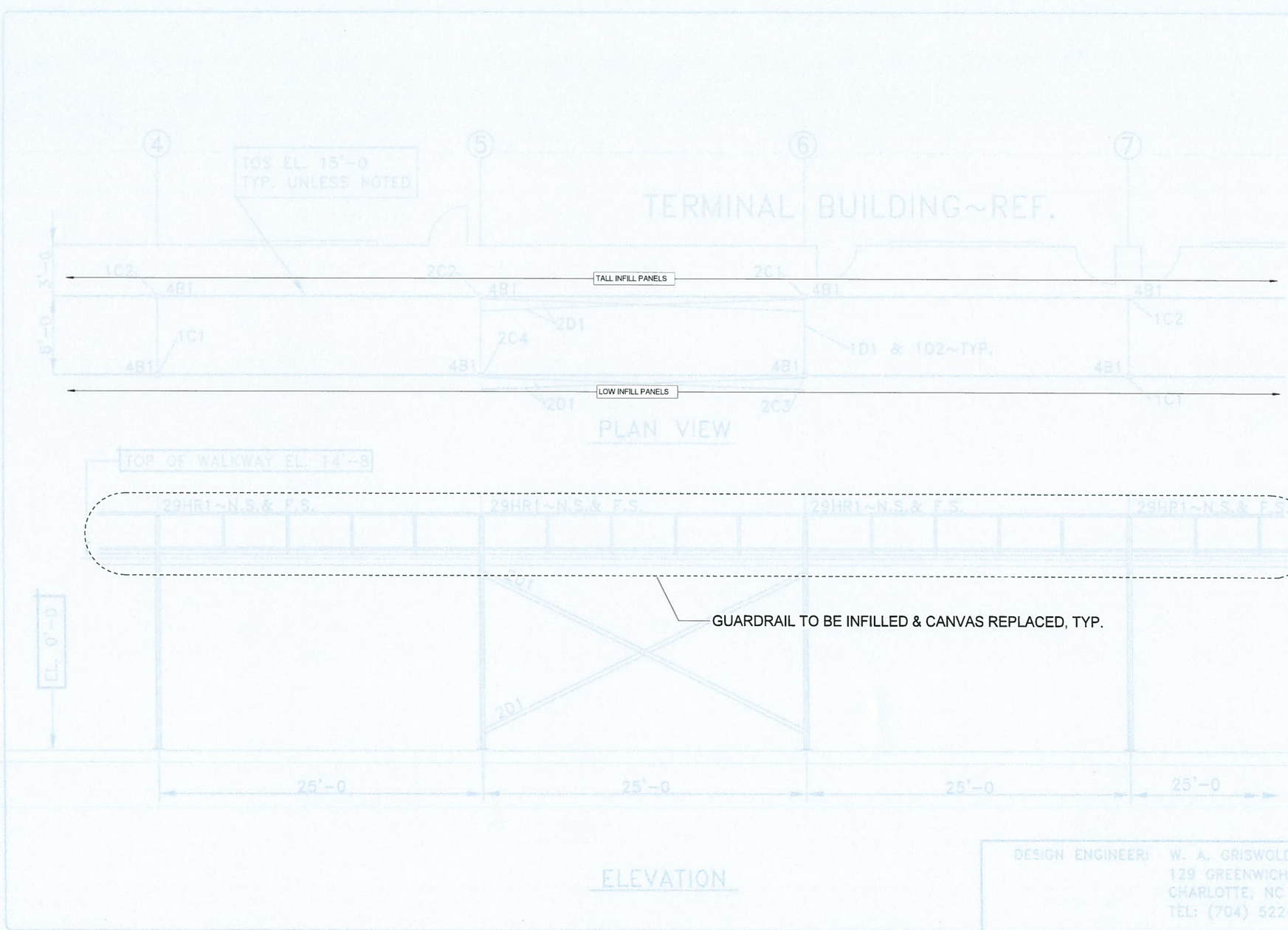
SHEET TITLE

REFERENCE DRAWING-2

SHEET NUMBER

S802

CONSTRUCTION DOCUMENTS



EXIST SHEET E-2

SCALE NTS

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ACON CONSTRUCTION CO., INC.

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DRAWN BY:	PFM
DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

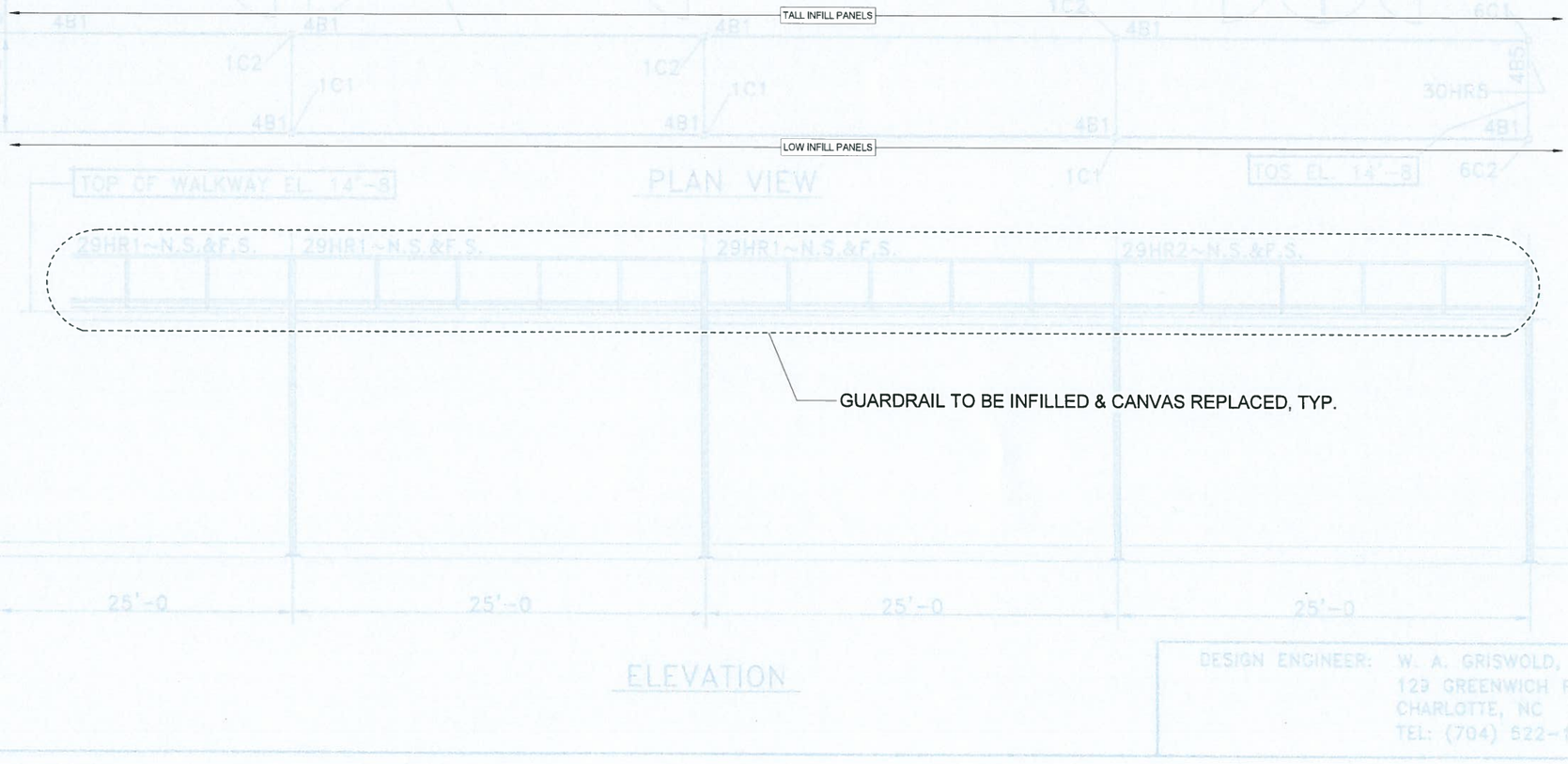
SHEET TITLE

REFERENCE DRAWING-3

SHEET NUMBER

S803

CONSTRUCTION DOCUMENTS



EXIST SHEET E-3

SCALE: NTS

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DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

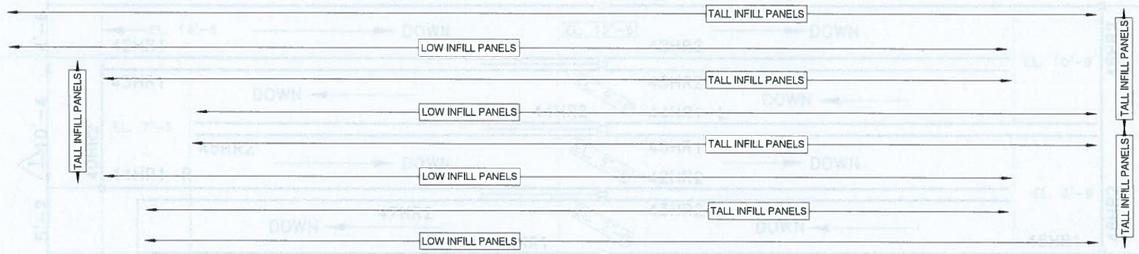
SHEET TITLE

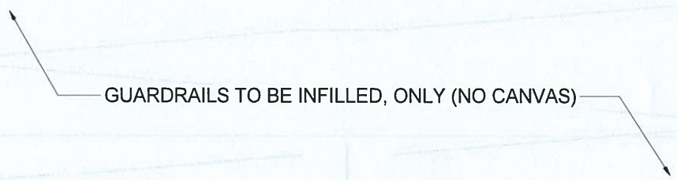
REFERENCE DRAWING-4

SHEET NUMBER

S804

CONSTRUCTION DOCUMENTS





EXIST SHEET E-8

SCALE: NTS

NOTE:
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JAXPORT
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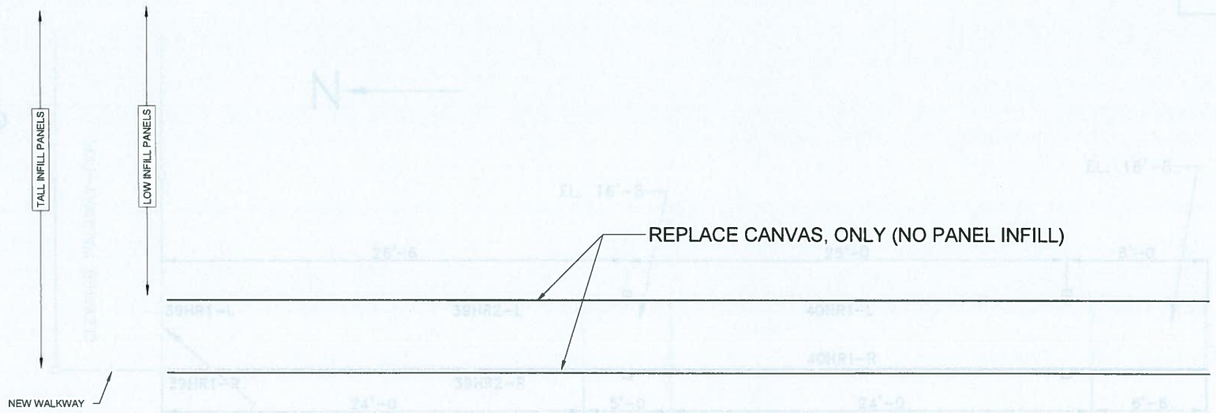
DRAWN BY:	PFM
DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

SHEET TITLE
REFERENCE DRAWING-5

SHEET NUMBER
S805

CONSTRUCTION DOCUMENTS



EXIST SHEET E-9

SCALE NTS

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JACKSONVILLE PORT AUTHORITY

JAXPORT CRUISE TERMINAL GANGWAY

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ACON CONSTRUCTION CO., INC.

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	8/16/18
REVIEWED BY:	REP
DRAWN BY:	PFM
DESIGNED BY:	DMH

RS&H PROJECT NO.
101-0003-027

SHEET TITLE

REFERENCE DRAWING-6

SHEET NUMBER

S806

CONSTRUCTION DOCUMENTS

ATTACHMENT NO. 2

PROJECT NOTES

1. WHERE FOOTERS OR FOUNDATIONS ARE INSTALLED BY AUGERING OR DRILLING, SURVEY AND STAKE OR PAINT TO AN ACCURACY OF 0.1' PRIOR TO REQUESTING UTILITY LOCATES. STAKE OR PAINT THE CENTER OF EACH LOCATION AND CLEARLY LABEL WITH STATION, OFFEST, IDENTIFYING STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.
2. WHERE AUGERING OR DRILLING, EXCAVATE THE FIRST 4 FEET BY NON MECHANICAL AND NON DESTRUCTIVE MEANS.

INDEX OF ELECTRICAL PLANS

LEGEND DESCRIPTION

PLAN SYMBOLS

- SURFACE MOUNTED CONDUIT WITHIN OPEN CEILING, AS INDICATED ON DRAWINGS.
- (1)-1" RIGID GALVANIZED METAL CONDUIT WITH TYPE THWN-2 CONDUCTORS INSIDE (CONDUIT AND CONDUCTOR SIZE AS SHOWN ON PLAN SHEETS) FOR ELECTRICAL FEEDER.
- (1)-2" RIGID GALVANIZED METAL CONDUIT WITH PULL CORD FOR PROPOSED CAMERAS. CONDUIT ROUTING INDICATED ON PLANS.
- RECESSED IN-GRADE PRECAST PULL BOX (HANDHOLE) FOR FUTURE UNDERGROUND TELECOMMUNICATIONS AND WITH THE FOLLOWING NOMINAL INSIDE DIMENSIONS: 13" Wx24" Lx24" D. PULLBOX SHALL BE PROVIDED WITH BOLT DOWN CHECKERED STAINLESS STEEL LID IDENTIFIED AS "COMMUNICATIONS".
- RECESSED IN-GRADE PRECAST PULL BOX FOR UNDERGROUND ELECTRIC AND WITH THE FOLLOWING NOMINAL INSIDE DIMENSIONS: 24" Wx36" Lx24" D. PULLBOX SHALL BE PROVIDED WITH BOLT DOWN CHECKERED STAINLESS STEEL LID IDENTIFIED AS "ELECTRICAL".
- ACCESSIBLE JUNCTION BOX
- CONDUIT RISER (STUB-UP) AND UNDERGROUND TRANSITION.
- ELECTRIC MOTOR (FURNISHED BY OTHERS)
- 3 MPA — HOMERUN CIRCUIT. NUMBER REPRESENTS CIRCUIT DESIGNATION. LETTERS REPRESENT PANEL SOURCE.
- SINGLE-POINT TERMINATION TO FURNISHED EQUIPMENT.
- SURFACE MOUNTED FUSED DISCONNECT
- X / X-X — DETAIL CALLOUT

ONE-LINE SYMBOLS

- TRANSFORMER
- PANELBOARD / LOAD CENTER
- CIRCUIT BREAKER
- FUSED DISCONNET, SIZES AS INDICATED ON DRAWINGS
- KILOWATT DEMAND METER
- ELECTRIC MOTOR
- GENERATOR
- NO / NC — AUTOMATIC TRANSFER SWITCH (ATS)

PROJECT SITE
NOT TO SCALE

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS			
	DESCRIPTION	BY	APVD

DESIGNED BY: DAO
DRAWN BY: DAO
CHECKED BY: SJC
APPROVED BY: JDC

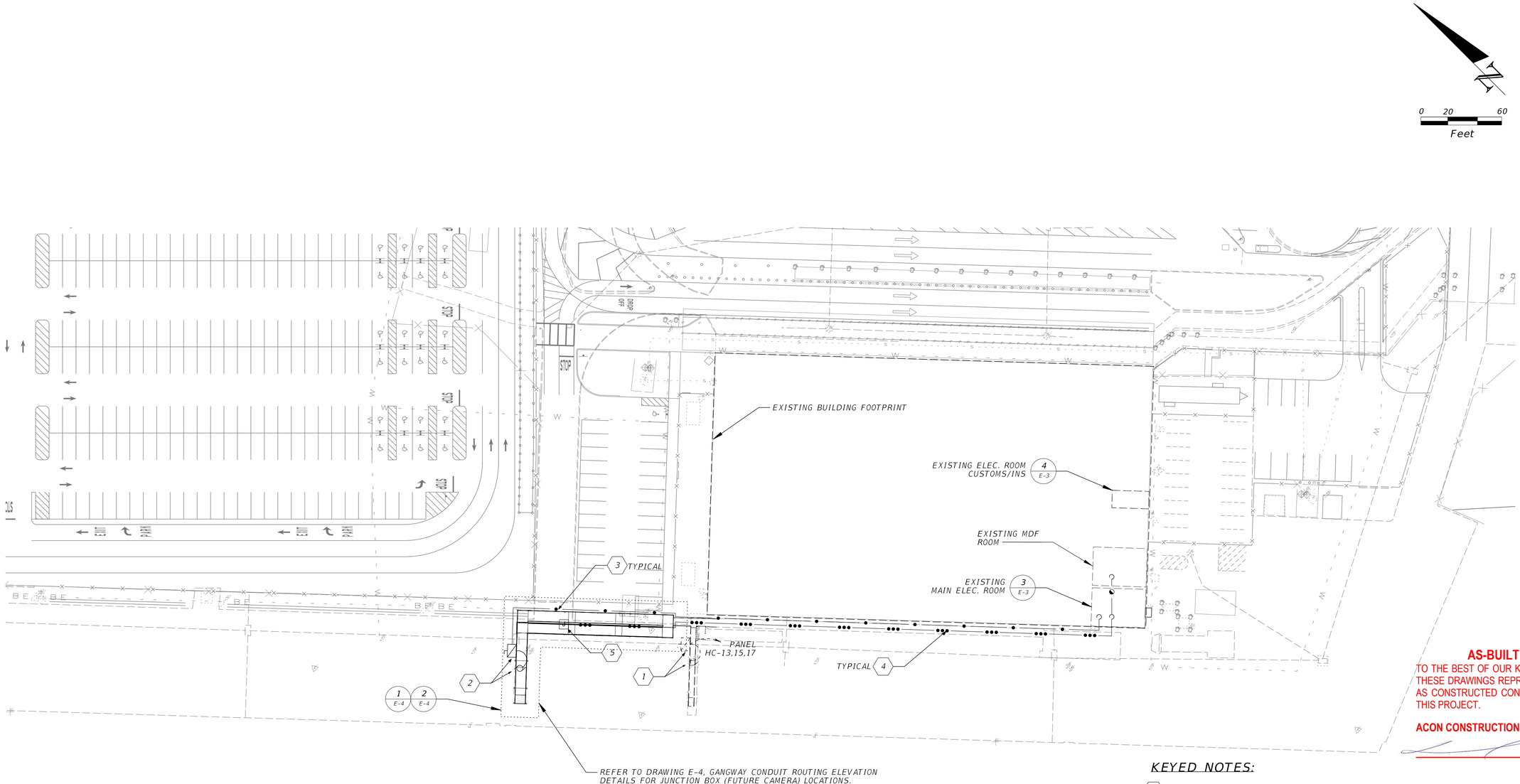
RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500
Certificate of Authorization No. 5620
Engineer of Record: Stephen Conway, P.E. No.: 53532

JAXPORT
JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL CRUISE TERMINAL GANGWAY
KEY SHEET, PROJECT NOTES, AND LEGEND DESCRIPTION

SHEET	E-1
DATE	JULY 2018
CONTRACT NO.	C-1575A

$USER$ $DATE$ $TIME$ $FILE$



AS-BUILT

TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

KEYED NOTES:

1. DISCONNECT EXISTING JIB CRANE/CHAIN HOIST. DE-ENERGIZE EXISTING CIRCUIT AND REMOVE CONDUCTORS BACK TO SOURCE. REFER TO EXISTING MAIN ELECTRICAL ROOM, DETAIL 3/E-3 FOR SOURCE LOCATION AND DETAIL 2/E-3 FOR EXISTING PANEL SCHEDULE.
2. PROPOSED NEW CHAIN HOIST MOTOR AND ASSOCIATED CONTROLS, FURNISHED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH STRUCTURAL DRAWINGS, PRIOR TO COMMENCEMENT OF WORK.
3. PROVIDE SURFACE MOUNTED RIGID GALVANIZED METAL CONDUIT TO EXISTING AND NEW GANGWAY FOR NEW CHAIN HOIST MOTOR. REFER TO EXISTING PANEL SCHEDULE, DETAIL 2/E-3 FOR CONDUIT AND CONDUCTOR SIZES.
4. PROVIDE 2" SURFACE MOUNTED RIGID GALVANIZED METAL CONDUIT WITH PULL CORD TO EXISTING AND NEW GANGWAY FOR FUTURE CAMERAS. PROPOSED CONDUIT ROUTING IS SHOWN ON DRAWING E-4, GANGWAY CONDUIT ROUTING ELEVATION. ROUTING INDICATED IS FOR ILLUSTRATION PURPOSES. COORDINATE EXACT PATHWAY AND ROUTING WITH BEST PRACTICES OF MEANS AND METHODS.
5. PROVIDE SURFACE MOUNTED 6"x12"x4" GALVANIZED METAL JUNCTION BOX TO NEW GANGWAY FOR PROPOSED CAMERA(S). QUANTITIES AND LOCATIONS ARE DEFINED ON DRAWING E-4, GANGWAY CONDUIT ROUTING ELEVATION.

REVISIONS			
	DESCRIPTION	BY	APVD

DESIGNED BY: DAO
DRAWN BY: DAO
CHECKED BY: SJC
APPROVED BY: JDC

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Engineer of Record: Stephen Conway, P.E. No.: 53532

JAXPORT
JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL CRUISE TERMINAL GANGWAY

ELECTRICAL SITE PLAN

SHEET E-2
DATE JULY 2018
CONTRACT NO. C-1575A

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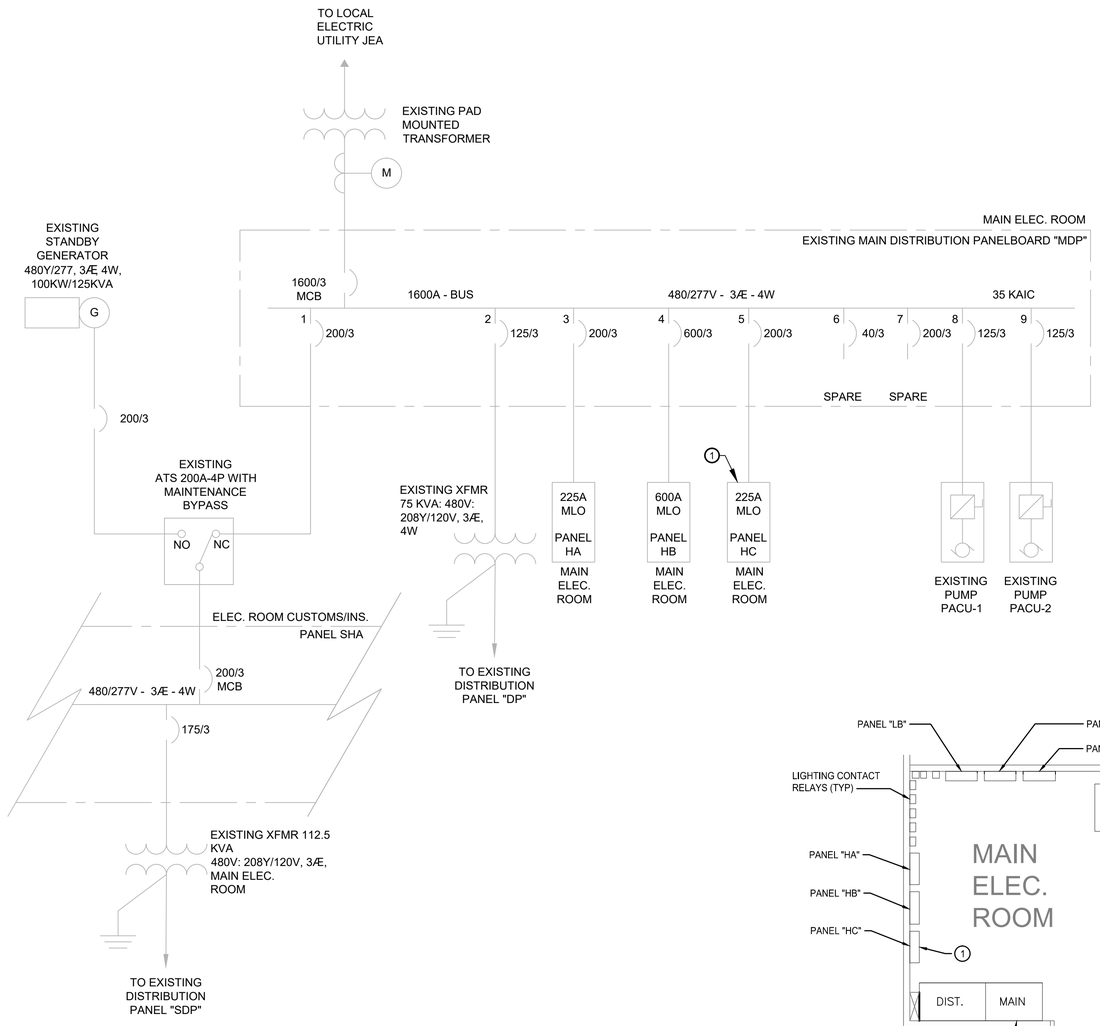


1 E-3 PARTIAL ONE-LINE DIAGRAM-EXISTING BUILDING

SCALE: NONE

3 E-3 MAIN ELEC. ROOM-EXISTING LAYOUT

SCALE: 1/4"=1'-0"

GRAPHIC SCALE
SCALE: 1/4"= 1'-0"
0 2' 4'

GENERAL NOTES:

1. ALL ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED. REFER TO EXISTING PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.

KEYED NOTES:

(1) REFER TO EXISTING PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION, DETAIL 2/E-3.

(2) REUSE EXISTING 30A/3P CIRCUIT BREAKER.FOR NEW DEDICATED CIRCUIT FOR CHAIN HOIST. REFER TO ELECTRICAL SITE PLAN FOR GANGWAY LOCATION.

LOCATION: MAIN ELEC. ROOM
277/480Y VOLTS, 3 PHASE, 4 WIRE

EXISTING PANEL 'HC'

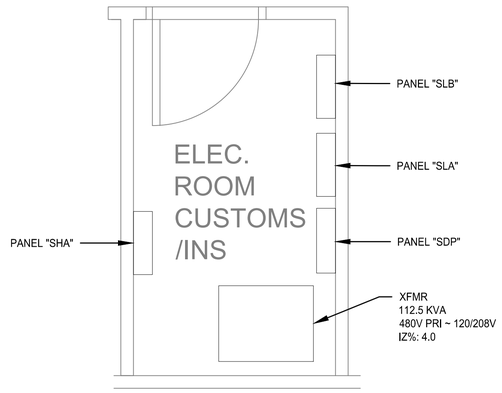
AIC: 22,000
SURFACE MOUNTED, NEMA 1
225 AMP, MAIN CIRCUIT BREAKER

CKT	POLES	TRIP	WIRE	GND	COND	KVA	SERVES	CKT	POLES	TRIP	WIRE	GND	COND	KVA	SERVES
1								2							
3	3	30	3#10	#10	1"	7.47	EF-8, EF-9, EF-10	4	3	40	3#6	#6	1"	15.8	AHU-1
5								6							
7								8							
9	3	30	3#10	#10	1"	7.47	EF-5, EF-6, EF-7	10	3	40	3#6	#6	1"	15.8	CU-1
11								12							
13								14							
(2) 15	3	30	3#8	#8	1"	11.6	CHAIN HOIST(10 HP)-GANGWAY	16	3	30	3#10	#10	1"	14.1	FORK LIFT
17								18							
19								20							
21	3	30	3#10	#10	1"	14.1	FORK LIFT	22	3	30	3#10	#10	1"	14.1	FORK LIFT
23								24							
25								26							
27	3	30	3#10	#10	1"	14.1	FORK LIFT	28	2	20	2#10	#10	3/4"	1.55	DOCK LIGHTING (SCOUT)
29								30							
31	2	20	2#10	#10	3/4"	1.55	DOCK LIGHTING (5-6)	32							
33								34	2	20	2#10	#10	3/4"	1.55	DOCK LIGHTING (WALK)
35	2	20	2#10	#10	3/4"	2.50	CANOPY-WALKWAY LTS & FANS	36	2	20	2#10	#10	3/4"	1.55	DOCK LIGHTING (1-2)
37								38	2	20	2#10	#10	3/4"	1.55	DOCK LIGHTING (3-4)
39							SPACE	40							SPACE
41							SPACE	42							SPACE

TOTAL CONNECTED LOAD: 126.3 KVA (152.2A)

2 E-3 PANELBOARD SCHEDULE

SCALE: NONE



4 E-3 ELEC. ROOM-CUSTOM/INS-EXISTING LAYOUT

SCALE: 1/2"=1'-0"

GRAPHIC SCALE
SCALE: 1/2"= 1'-0"
0 1 2

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS			
	DESCRIPTION	BY	APVD

DESIGNED BY: DAO
DRAWN BY: CDM
CHECKED BY: SJC
APPROVED BY: JDC

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Engineer of Record: Stephen Conway, P.E. No.: 53532

JAXPORT
JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL CRUISE TERMINAL GANGWAY
ONE-LINE DIAGRAM, ELEC. ROOM LAYOUTS, AND PANEL SCHEDULE

SHEET E-3
DATE JULY 2018
CONTRACT NO. C-1575A

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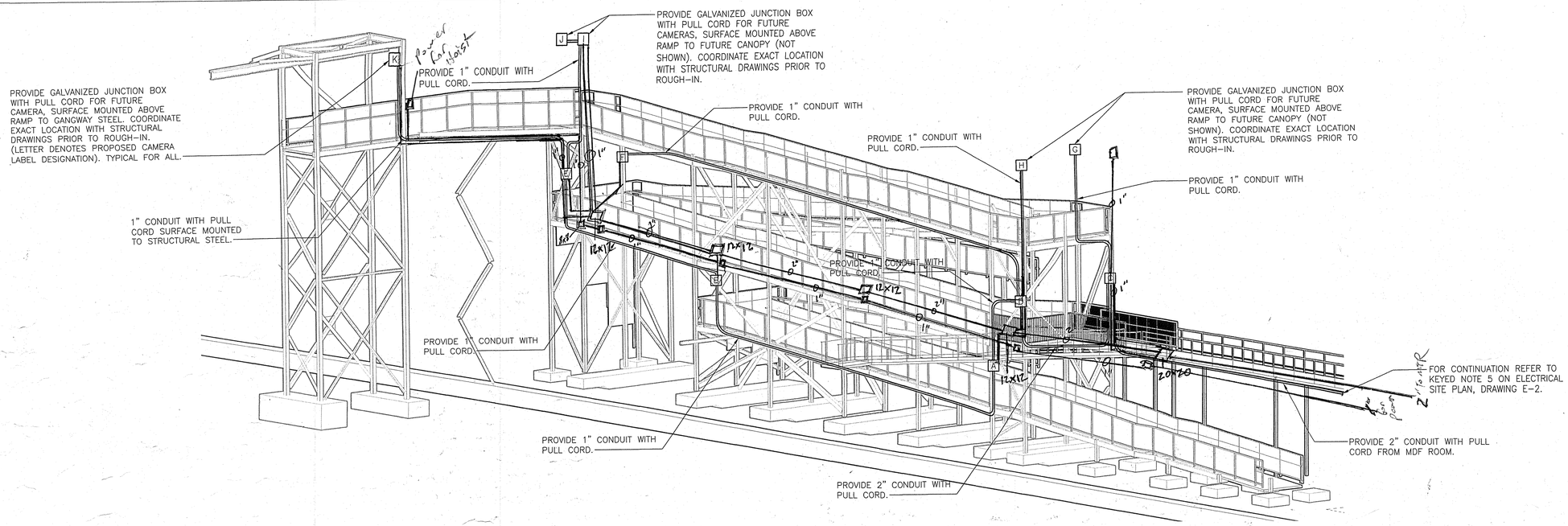
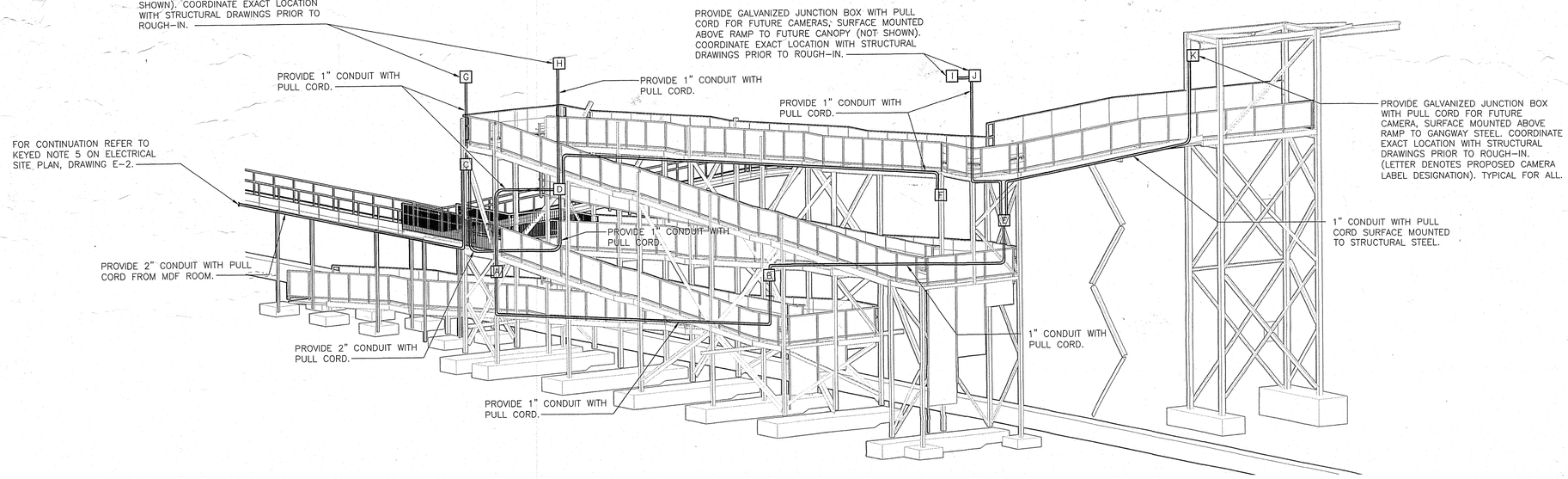


1 E-4 **GANGWAY CONDUIT ROUTING - NORTHWEST ELEVATION**

SCALE: NONE



2 E-4 **GANGWAY CONDUIT ROUTING - SOUTHEAST ELEVATION**

SCALE: NONE

AS-BUILT

TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS			
	DESCRIPTION	BY	APVD

DESIGNED BY: DAO
DRAWN BY: CDM
CHECKED BY: SJC
APPROVED BY: JDC

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JAXPORT
JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL
CRUISE TERMINAL GANGWAY
GANGWAY CONDUIT ROUTING ELEVATION DETAILS

SHEET E-4
DATE JULY 2018
CONTRACT NO. C-1575A

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BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 – GENERAL

1.1 SUMMARY

A. DIVISION 26 OF THE SPECIFICATIONS COVERS ALL ELECTRICAL WORK FOR THE PROJECT. WORK SHALL INCLUDE LABOR, MATERIAL, AND ACCESSORIES REQUIRED TO ACCOMPLISH THE WORK.

1.2 SUBMITTALS

A. SHOP DRAWINGS AND PRODUCT DATA:

1. SHOP DRAWINGS SHALL BE SUBMITTED AS INDICATED UNDER EACH SECTION. PROVIDE DIMENSIONED PLANS AND SECTIONS OR ELEVATION LAYOUTS. INCLUDE SUFFICIENT INFORMATION TO INDICATE COMPLETE COMPLIANCE WITH THE SPECIFICATIONS.

2. PRODUCT DATA: SHALL INCLUDE ILLUSTRATIONS, CATALOG SHEETS, INSTALLATION INSTRUCTIONS, DRAWINGS, AND CERTIFICATIONS AS NECESSARY. EACH SHEET SHALL SHOW MANUFACTURER'S NAME OR TRADEMARK.

3. AT THE TIME OF EACH SUBMISSION, ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE OWNER IN WRITING, AND BE PLAINLY MARKED ON THE SHOP DRAWINGS AND PRODUCT DATA.

4. WHERE CATALOG SHEETS SUBMITTED INCLUDE MULTIPLE PRODUCTS NOT DIRECTLY ASSOCIATED WITH THE SPECIFIED PROJECT, THE PRODUCTS SOLELY PERTAINING TO THE SPECIFIED PROJECT SHALL BE PLAINLY MARKED.

B. RECORD DRAWINGS:

1. PROVIDE ONE COMPLETE SET OF CONTRACT DRAWINGS IN CLEAN, UNDAMAGED CONDITION, INDICATING ALL SIGNIFICANT CHANGES FROM THE WORK AS SHOWN. USE MULTIPLE PENCIL COLORS TO AID IN THE DISTINCTION BETWEEN WORK OF SEPARATE ELECTRICAL SYSTEMS. IN GENERAL, RECORD EVERY SUBSTANTIVE INSTALLATION OF ELECTRICAL WORK WHICH PREVIOUSLY IS EITHER NOT SHOWN OR FIELD MODIFIED.

a. SHOW EXACT LOCATIONS OF UNDERGROUND CABLE AND CONDUITS INCLUDING PULL BOXES AND HANDHOLES, BOTH INTERIOR AND EXTERIOR, DRAWN TO SCALE AND FULLY DIMENSIONED FROM BUILDING COLUMN LINES.

b. INDICATE MAINS AND BRANCHES OF WIRING SYSTEMS, WITH PANELBOARDS AND CONTROL DEVICES LOCATED AND NUMBERED. LOCATE DEVICES REQUIRING MAINTENANCE.

1.3 CODES, PERMITS AND INSPECTIONS

A. INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATION IN EFFECT; WITH THE REGULATIONS OF THE INTERNATIONAL BUILDING CODE (IBC), NATIONAL ELECTRICAL SAFETY CODE, NATIONAL ELECTRICAL CODE (NEC, NFPA-70), OTHER APPLICABLE PUBLICATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, ALL LOCAL GOVERNING CODES AND ORDINANCES AND WITH THE REGULATIONS OF THE SERVING UTILITY COMPANY. PROVIDE REQUIRED PERMITS.

1.4 DEFINITIONS

A. EMT: ELECTRICAL METALLIC TUBING.

B. FMC: FLEXIBLE METAL CONDUIT.

C. IMC: INTERMEDIATE METAL CONDUIT.

D. LFMC: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

E. RGS: GALVANIVIZED RIGID STEEL CONDUIT.

1.5 QUALITY ASSURANCE

A. 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.

B. COMPLY WITH NFPA 70.

C. MANUFACTURERS' NAMES AND CATALOG NUMBERS

1. IN SOME INSTANCES, SPECIFIC REFERENCES HAVE BEEN MADE TO ONE OR MORE MANUFACTURER'S NAMES AND MODEL OR CATALOG NUMBERS. USE OF NAMES AND CATALOG NUMBERS DOES NOT INDICATE THAT THE EQUIPMENT SPECIFIED IS NECESSARILY AN "OFF THE SHELF" ITEM. VARIANCES MAY BE DUE TO REQUIREMENT OF A DESIRED FINISH, MATERIAL, OR OTHER MODIFICATION.

2. IN THE CASE OF PANELBOARDS, SAFETY SWITCHES AND OTHER EQUIPMENT REQUIRING WIRE AND CABLE TERMINATIONS, ASCERTAIN THAT LUG SIZES AND WIRING GUTTERS OR SPACE ALLOWED FOR PROPER ACCOMMODATION AND TERMINATION OF THE WIRES AND CABLES ARE ADEQUATE.

D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRAGEMENT OF SYSTEMS AND WORK. EXACT LOCATIONS ARE SUBJECT TO APPROVAL BY OWNER, WHO RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN THE LOCATION INDICATED WITHOUT CHANGE IN CONTRACT AMOUNT.

1.6 COORDINATION

A. COORDINATE CHASES, SLOTS, INSERTS, SLEEVES, AND OPENINGS WITH GENERAL CONSTRUCTION WORK AND ARRANGE IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION TO FACILITATE THE ELECTRICAL INSTALLATIONS THAT FOLLOW.

B. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLING ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. COORDINATE INSTALLATION OF EQUIPMENT WITH OTHER TRADES.

C. COORDINATE ELECTRICAL SERVICE CONNECTIONS TO COMPONENTS FURNISHED BY UTILITY COMPANIES.

1. COORDINATE INSTALLATION AND CONNECTION OF EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES.

2. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND OF UTILITY COMPANY PROVIDING ELECTRICAL POWER AND OTHER SERVICES.

D. WHERE ELECTRICAL IDENTIFICATION DEVICES ARE APPLIED TO FIELD-FINISHED SURFACES, COORDINATE INSTALLATION OF IDENTIFICATION DEVICES WITH COMPLETION OF FINISHED SURFACE.

E. WHERE ELECTRICAL IDENTIFICATION MARKINGS AND DEVICES WILL BE CONCEALED BY ACOUSTICAL CEILINGS AND SIMILAR FINISHES, COORDINATE INSTALLATION OF THESE ITEMS BEFORE CEILING INSTALLATION.

1.7 PROTECTION OF ELECTRICAL EQUIPMENT

A. ELECTRICAL EQUIPMENT SHALL BE PROTECTED FROM THE WEATHER, IN PARTICULAR, DRIPPING OR SPLASHING WATER, AT ALL TIMES DURING SHIPMENT, STORAGE AND CONSTRUCTION. MANUFACTURER'S RECOMMENDATIONS WITH REGARD TO STORAGE AND PROTECTION SHALL BE FOLLOWED. SHOULD ANY APPARATUS BE SUBJECTED TO POSSIBLE DAMAGE BY WATER, IT SHALL BE THOROUGHLY DRIED AND PUT THROUGH A DIELECTRIC TEST, AT THE EXPENSE OF THE CONTRACTOR, TO ASCERTAIN THE SUITABILITY OF THE APPARATUS OR IT SHALL BE REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.

B. DAMAGED OR DEFECTIVE EQUIPMENT: INSPECT ALL ELECTRICAL EQUIPMENT AND MATERIALS PRIOR TO INSTALLATION. DAMAGED EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED OR PLACED IN SERVICE. REPLACE OR REPAIR TO NEW CONDITION AND TEST REPAIRED EQUIPMENT IN COMPLIANCE WITH INDUSTRY STANDARDS AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT REQUIRED FOR THE TEST SHALL BE PROVIDED BY THE CONTRACTOR.

PART 2 – PRODUCTS

2.1 RACEWAYS

A. EMT: ANSI C80.3, ZINC-COATED STEEL, WITH SET-SCREW OR COMPRESSION FITTINGS.

B. FMC: ZINC-COATED STEEL.

C. IMC: ANSI C80.6, ZINC-COATED STEEL, WITH THREADED FITTINGS.

D. LFMC: ZINC-COATED STEEL WITH SUNLIGHT-RESISTANT AND MINERAL-OIL-RESISTANT PLASTIC JACKET.

1. MANUFACTURED BY HOFFMAN, SQUARE D, OR APPROVED EQUAL.

2. MATERIAL AND CONSTRUCTION: SHEET METAL SIZED AND SHAPED AS INDICATED, NEMA 3R AND 4X.

3. FITTINGS AND ACCESSORIES: INCLUDE COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD-DOWN STRAPS, END CAPS, AND OTHER FITTINGS TO MATCH AND MATE WITH WIREWAYS AS REQUIRED FOR COMPLETE SYSTEM.

4. SELECT FEATURES, UNLESS OTHERWISE INDICATED, AS REQUIRED TO COMPLETE WIRING SYSTEM AND TO COMPLY WITH NFPA 70.

5. FINISH: MANUFACTURER'S STANDARD ENAMEL FINISH.

E. PVC SCHEDULE 40: POLY (VINYL CHLORIDE), ATSM D 2466

F. RNC: NEMA TC 2, SCHEDULE 40 PVC, WITH NEMA TC3 FITTINGS.

G. RACEWAY FITTINGS: SPECIFICALLY DESIGNED FOR THE RACEWAY TYPE WITH WHICH USED.

2.2 CONDUCTORS

A. CONDUCTORS, NO. 10 AWG AND SMALLER: SOLID OR STRANDED COPPER.

B. CONDUCTORS, LARGER THAN NO. 10 AWG: STRANDED COPPER.

C. INSULATION: 600V, THWN-2

D. WIRE CONNECTORS AND SPLICES: UNITS OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS SUITABLE FOR SERVICE INDICATED.

2.3 BOXES, ENCLOSURES, AND CABINETS

A. SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1.

B. CAST-METAL OUTLET AND DEVICE BOXES: NEMA FB 1, TYPE FD, WITH GASKETED COVER.

C. SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.

D. CAST-METAL PULL AND JUNCTION BOXES: NEMA FB 1, CAST ALUMINUM WITH GASKETED COVER UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

E. HINGED-COVER ENCLOSURES: NEMA 250, TYPE 4X, WITH CONTINUOUS HINGE COVER AND FLUSH LATCH.

1. METAL ENCLOSURES: STEEL, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.

F. FINISH: FOR ENCLOSURE OR CABINET COMPONENTS, PROVIDE MANUFACTURER'S STANDARD COLOR PAINT APPLIED AFTER FABRICATION TO FACTORY-ASSEMBLED SURFACE RACEWAYS, ENCLOSURES, AND CABINETS BEFORE SHIPPING.

2.4 SUPPORTING DEVICES

A. MATERIAL: COLD-FORMED STEEL, WITH CORROSION-RESISTANT COATING ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

B. METAL ITEMS FOR USE OUTDOORS OR IN DAMP LOCATIONS: HOT-DIP GALVANIZED STEEL.

C. SLOTTED-STEEL CHANNEL SUPPORTS: FLANGE EDGES TURNED TOWARD WEB, AND 9/16-INCH DIAMETER SLOTTED HOLES AT A MAXIMUM OF 2 INCHES O.C., IN WEBS.

D. SLOTTED-STEEL CHANNEL SUPPORTS:

1. CHANNEL THICKNESS: SELECTED TO SUIT STRUCTURAL LOADING.

2. FITTINGS AND ACCESSORIES: PRODUCTS OF THE SAME MANUFACTURER AS CHANNEL SUPPORTS.

E. NONMETALLIC CHANNEL AND ANGLE SYSTEMS: STRUCTURAL-GRADE, FACTORY-FORMED, GLASS-FIBER-RESIN CHANNELS AND ANGLES WITH 9/16-INCH DIAMETER HOLES AT A MAXIMUM OF 8 INCHES O.C., IN AT LEAST ONE SURFACE.

1. FITTINGS AND ACCESSORIES: PRODUCTS OF THE SAME MANUFACTURER AS CHANNELS AND ANGLES.

2. FITTINGS AND ACCESSORY MATERIALS: SAME AS CHANNELS AND ANGLES, EXCEPT METAL ITEMS MAY BE STAINLESS STEEL.

F. RACEWAY AND CABLE SUPPORTS: MANUFACTURED CLEVIS HANGERS, RISER CLAMPS, STRAPS, THREADED C-CLAMPS WITH RETAINERS, CEILING TRAPEZE HANGERS, WALL BRACKETS, AND SPRING-STEEL CLAMPS OR CLICK-TYPE HANGERS.

G. PIPE SLEEVES: ASTM A53, TYPE E, GRADE A, SCHEDULE 40, GALVANIZED STEEL, PLAIN ENDS.

I. EXPANSION ANCHORS: CARBON-STEEL WEDGE OR SLEEVE TYPE.

J. TOGGLE BOLTS: ALL-STEEL SPRINGHEAD TYPE.

K. POWDER-DRIVEN THREADED STUDS: HEAT-TREATED STEEL.

2.5 ELECTRICAL IDENTIFICATION

A. IDENTIFICATION DEVICES: A SINGLE TYPE OF IDENTIFICATION PRODUCT FOR EACH APPLICATION CATEGORY. USE COLORS PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.

B. RACEWAY AND CABLE LABELS: COMPLY WITH ANSI A13.1, TABLE 3, FOR MINIMUM SIZE OF LETTERS FOR LEGEND AND MINIMUM LENGTH OF COLOR FIELD FOR EACH RACEWAY AND CABLE SIZE.

C. COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK.

E. TAPE MARKERS FOR WIRE: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.

F. ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. AND 1/8-INCH MINIMUM THICKNESS FOR LARGER SIZES. LABELS SHALL BE COLOR CODED ACCORDING TO SERVICE/USE OR VOLTAGE AS SCHEDULED HEREIN. LETTERS SHALL BE ENGRAVED, 5/32-INCH HIGH AND ALL CAPITALS.

SERVICE	SURFACE COLOR	LETTER COLOR
POWER: 480 V	WHITE	BLACK
POWER: 240 V (208 V)	YELLOW	BLACK
SECURITY	GREEN	WHITE OR YELLOW
TELEVISION/VIDEO	PURPLE	WHITE

G. INTERIOR WARNING AND CAUTION SIGNS: COMPLY WITH 29 CFR, CHAPTER XVII, PART 1910.145. PREPRINTED, ALUMINUM, BAKED-ENAMEL-FINISH SIGNS, PUNCHED OR DRILLED FOR MECHANICAL FASTENERS, WITH COLORS, LEGEND, AND SIZE APPROPRIATE TO THE APPLICATION.

H. FASTENERS FOR NAMEPLATES AND SIGNS: SELF-TAPPING, STAINLESS-STEEL SCREWS OR NO. 10/32 STAINLESS-STEEL MACHINE SCREWS WITH NUTS AND FLAT AND LOCK WASHERS.

I. RECEPTACLES: TRANSPARENT, VINYL OR MYLAR, ADHESIVE-BACKED LABELS HAVING MACHINE PRINTING WITH BLACK NUMBERS AND LETTERS.

2.6 TOUCHUP PAINT

A. FOR EQUIPMENT: EQUIPMENT MANUFACTURER'S PAINT SELECTED TO MATCH INSTALLED EQUIPMENT FINISH.

PART 3 – EXECUTION

3.1 ELECTRICAL EQUIPMENT INSTALLATION

A. HEADROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM.

B. MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.

C. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.

D. RIGHT OF WAY: GIVE TO RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE.

E. WORKING CLEARANCE: WORKING CLEARANCES AROUND EQUIPMENT REQUIRING ELECTRICAL SERVICE SHALL COMPLY WITH NEC REQUIREMENTS. NOTIFY THE OWNER OF VIOLOATIONS BEFORE PROCEEDING WITH CONNECTION OR PLACEMENT OF EQUIPMENT.

3.2 RACEWAY APPLICATION

A. USE THE FOLLOWING RACEWAYS FOR OUTDOOR INSTALLATIONS:

1. EXPOSED: RGS.
2. CONNECTION TO VIBRATING EQUIPMENT: LFMC.
3. BOXES AND MWW: NEMA 250, TYPE 4X, UNLESS OTHERWISE SPECIFIED
4. ENCLOSURES: NEMA 250, TYPE 4X, UNLESS OTHERWISE SPECIFIED

B. USE THE FOLLOWING RACEWAYS FOR INDOOR INSTALLATIONS:

1. EXPOSED: RGS.

2. CONCEALED: RGS.

3. CONNECTION TO VIBRATING EQUIPMENT: FMC; EXCEPT IN WET OR DAMP LOCATIONS, USE LFMC.

4. DAMP OR WET LOCATIONS: IMC OR LFMC.

5. BOXES, SMR, AND ENCLOSURES: NEMA 250, TYPE 1, UNLESS OTHERWISE INDICATED.

C. MINIMUM RACEWAY SIZE: FOR POWER AND CONTROL: 3/4-INCH TRADE SIZE. FOR TELECOMMUNICATIONS (COMM): 3/4-INCH TRADE SIZE.

3.3 RACEWAY AND CABLE INSTALLATION

A. INSTALL RACEWAYS AND CABLES AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. LOCATE HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.

B. USE TEMPORARY RACEWAY CAPS TO PREVENT FOREIGN MATTER FROM ENTERING.

C. MAKE CONDUIT BENDS AND OFFSETS SO INTERIOR DIAMETER IS NOT REDUCED. KEEP LEGS OF BENDS IN THE SAME PLANE AND STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.

D. USE RACEWAY AND CABLE FITTINGS COMPATIBLE WITH RACEWAYS AND CABLES AND SUITABLE FOR USE AND LOCATION.

1. USE INSULATING BUSHINGS TO PROTECT CONDUCTORS.

E. INSTALL RACEWAYS EMBEDDED IN SLABS IN MIDDLE THIRD OF SLAB THICKNESS WHERE PRACTICAL, AND LEAVE AT LEAST 1-INCH CONCRETE COVER.

1. SECURE RACEWAYS TO REINFORCING RODS TO PREVENT SAGGING OR SHIFTING DURING CONCRETE PLACEMENT.

2. SPACE RACEWAYS LATERALLY TO PREVENT VOIDS IN CONCRETE.

3. INSTALL CONDUIT LARGER THAN 1-INCH TRADE SIZE PARALLEL TO OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE CONDUIT IS AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT.

4. TRANSITION FROM NONMETALLIC CONDUIT TO RIGID STEEL CONDUIT OR IMC BEFORE RISING ABOVE GRADE.

5. MAKE BENDS IN EXPOSED PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR EXPOSED PARALLEL RACEWAYS.

F. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 2 FEET OF SLACK AT EACH END OF THE PULL WIRE.

G. INSTALL CCTV RACEWAYS, 2-INCH TRADESIZE AND SMALLER, IN MAXIMUM LENGTHS OF 150 FEET (INDOOR), 325 (OUTDOOR) AND WITH A MAXIMUM OF TWO 90-DEGREE BENDS OR EQUIVALENT. SEPARATE LENGTHS WITH PULL BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS, IN ADDITION TO REQUIREMENTS ABOVE.

H. CONNECT MOTORS AND EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT WITH A MAXIMUM OF 72-INCH FLEXIBLE CONDUIT. INSTALL LFMC IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

I. INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.

1. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON.

2. MAKE PARALLEL BENDS IN PARALLEL OR BANKED RUNS. USE FACTORY ELBOWS ONLY WHERE ELBOWS CAN BE INSTALLED PARALLEL; OTHERWISE, PROVIDE FIELD BENDS FOR PARALLEL RACEWAYS.

J. TERMINATIONS:

1. WHERE RACEWAYS ARE TERMINATED WITH LOCKNUTS AND BUSHINGS, ALIGN RACEWAYS TO ENTER SQUARELY AND INSTALL LOCKNUTS WITH DISHED PART AGAINST BOX. USE TWO LOCKNUTS, ONE INSIDE AND ONE OUTSIDE BOX.

2. WHERE RACEWAYS ARE TERMINATED WITH THREADED HUBS, SCREW RACEWAYS OR FITTINGS TIGHTLY INTO HUB SO END BEARS AGAINST WIRE PROTECTION SHOULDER. WHERE CHASE NIPPLES ARE USED, ALIGN RACEWAYS SO COUPLING IS SQUARE TO BOX; TIGHTEN CHASE NIPPLE SO NO THREADS ARE EXPOSED.

K. SURFACE RACEWAYS: INSTALL A SEPARATE, GREEN, GROUND CONDUCTOR IN RACEWAYS FROM JUNCTION BOX SUPPLYING RACEWAYS TO RECEPTACLE OR FIXTURE GROUND TERMINALS.

L. INSTALL HINGED-COVER ENCLOSURES AND CABINETS PLUMB. SUPPORT AT EACH CORNER.

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS			
	DESCRIPTION	BY	APVD

DESIGNED BY: DAO
DRAWN BY: CDM
CHECKED BY: SJC
APPROVED BY: JDC

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500
Certificate of Authorization No. 5620
Engineer of Record: Stephen Conway, P.E. No.: 53532

JAXPORT
JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL CRUISE TERMINAL GANGWAY

ELECTRICAL SPECIFICATIONS

SHEET E-5
DATE JULY 2018
CONTRACT NO. C-1575A

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BASIC ELECTRICAL MATERIALS AND METHODS (CONT.)

3.4 WIRING INSTALLATION

A. INSTALL SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.

B. INSTALL WIRING AT OUTLETS WITH AT LEAST 12 INCHES OF SLACK CONDUCTOR AT EACH OUTLET.

C. CONNECT OUTLET AND COMPONENT CONNECTIONS TO WIRING SYSTEMS AND TO GROUND. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A.

3.5 WIRING DEVICES INSTALLATION

A. INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.

B. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE-TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A.

3.6 ELECTRICAL SUPPORTING DEVICE APPLICATION

A. DAMP LOCATIONS AND OUTDOORS: HOT-DIP GALVANIZED MATERIALS OR NONMETALLIC, U-CHANNEL SYSTEM COMPONENTS.

B. DRY LOCATIONS: STEEL MATERIALS.

C. SUPPORT CLAMPS FOR PVC RACEWAYS: CLICK-TYPE CLAMP SYSTEM.

D. SELECTION OF SUPPORTS: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

E. STRENGTH OF SUPPORTS: ADEQUATE TO CARRY PRESENT AND FUTURE LOADS, TIMES A SAFETY FACTOR OF AT LEAST FOUR; MINIMUM OF 500-LB DESIGN LOAD, UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

3.7 SUPPORT INSTALLATION

A. INSTALL SUPPORT DEVICES TO SECURELY AND PERMANENTLY FASTEN AND SUPPORT ELECTRICAL COMPONENTS.

B. INSTALL INDIVIDUAL AND MULTIPLE RACEWAY HANGERS AND RISER CLAMPS TO SUPPORT RACEWAYS. PROVIDE U-BOLTS, CLAMPS, ATTACHMENTS, AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLIES AND FOR SECURING HANGER RODS AND CONDUITS.

C. SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE- OR BRACKET-TYPE HANGERS.

D. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS WITH SEPARATE, MALLEABLE-IRON PIPE HANGERS OR CLAMPS.

E. INSTALL 1/4-INCH DIAMETER OR LARGER THREADED STEEL HANGER RODS, UNLESS OTHERWISE INDICATED.

F. SPRING-STEEL FASTENERS SPECIFICALLY DESIGNED FOR SUPPORTING SINGLE CONDUITS OR TUBING MAY BE USED INSTEAD OF MALLEABLE-IRON HANGERS FOR 1-1/2-INCH AND SMALLER RACEWAYS SERVING LIGHTING AND RECEPTACLE BRANCH CIRCUITS ABOVE SUSPENDED CEILINGS AND FOR FASTENING RACEWAYS TO SLOTTED CHANNEL AND ANGLE SUPPORTS.

G. ARRANGE SUPPORTS IN VERTICAL RUNS SO THE WEIGHT OF RACEWAYS AND ENCLOSED CONDUCTORS IS CARRIED ENTIRELY BY RACEWAY SUPPORTS, WITH NO WEIGHT LOAD ON RACEWAY TERMINALS.

H. SIMULTANEOUSLY INSTALL VERTICAL CONDUCTOR SUPPORTS WITH CONDUCTORS.

I. INSTALL METAL CHANNEL RACKS FOR MOUNTING CABINETS, PANELBOARDS, DISCONNECT SWITCHES, CONTROL ENCLOSURES, PULL AND JUNCTION BOXES, TRANSFORMERS, AND OTHER DEVICES UNLESS COMPONENTS ARE MOUNTED DIRECTLY TO STRUCTURAL ELEMENTS OF ADEQUATE STRENGTH.

J. INSTALL SLEEVES FOR CABLE AND RACEWAY PENETRATIONS OF CONCRETE SLABS AND WALLS UNLESS CORE-DRILLED HOLES ARE USED. INSTALL SLEEVES FOR CABLE AND RACEWAY PENETRATIONS OF MASONRY AND FIRE-RATED GYPSUM WALLS AND OF ALL OTHER FIRE-RATED FLOOR AND WALL ASSEMBLIES. INSTALL SLEEVES DURING ERECTION OF CONCRETE AND MASONRY WALLS.

K. SECURELY FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO THE BUILDING STRUCTURE, UNLESS OTHERWISE INDICATED. PERFORM FASTENING ACCORDING TO THE FOLLOWING UNLESS OTHER FASTENING METHODS ARE INDICATED:

1. WOOD: FASTEN WITH WOOD SCREWS OR SCREW-TYPE NAILS.

2. MASONRY: TOGGLE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION BOLTS ON SOLID MASONRY UNITS.

3. NEW CONCRETE: CONCRETE INSERTS WITH MACHINE SCREWS AND BOLTS.

4. INSTEAD OF EXPANSION BOLTS, THREADED STUDS DRIVEN BY A POWDER CHARGE AND PROVIDED WITH LOCK WASHERS MAY BE USED IN EXISTING CONCRETE.

5. STEEL: WELDED THREADED STUDS OR SPRING-TENSION CLAMPS ON STEEL.

A. FIELD WELDING: COMPLY WITH AWS D1.1.

6. WELDING TO STEEL STRUCTURE MAY BE USED ONLY FOR THREADED STUDS, NOT FOR CONDUITS, PIPE STRAPS, OR OTHER ITEMS.

7. LIGHT STEEL: SHEET-METAL SCREWS.

8. FASTENERS: SELECT SO THE LOAD APPLIED TO EACH FASTENER DOES NOT EXCEED 25 PERCENT OF ITS PROOF-TEST LOAD.

3.8 IDENTIFICATION MATERIALS AND DEVICES

A. INSTALL AT LOCATIONS FOR MOST CONVENIENT VIEWING WITHOUT INTERFERENCE WITH OPERATION AND MAINTENANCE OF EQUIPMENT.

B. COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.

C. SELF-ADHESIVE IDENTIFICATION PRODUCTS: CLEAN SURFACES BEFORE APPLYING.

D. IDENTIFY RACEWAYS AND CABLES WITH COLOR BANDING AS FOLLOWS:

1. BANDS: PRETENSIONED, SNAP-AROUND, COLORED PLASTIC SLEEVES OR COLORED ADHESIVE MARKING TAPE. MAKE EACH COLOR BAND 2 INCHES WIDE, COMPLETELY ENCIRCLING CONDUIT, AND PLACE ADJACENT BANDS OF TWO-COLOR MARKINGS IN CONTACT, SIDE BY SIDE.

2. BAND LOCATIONS: AT CHANGES IN DIRECTION, AT PENETRATIONS OF WALLS AND FLOORS, AT 50-FOOT MAXIMUM INTERVALS IN STRAIGHT RUNS, AND AT 25-FOOT MAXIMUM INTERVALS IN CONGESTED AREAS.

3. COLORS: AS FOLLOWS:

a. SECURITY SYSTEM: GREEN AND YELLOW.

b. TELECOMMUNICATION SYSTEM: ORANGE.

E. TAG AND LABEL CIRCUITS DESIGNATED TO BE EXTENDED IN THE FUTURE. IDENTIFY SOURCE AND CIRCUIT NUMBERS IN EACH CABINET, PULL AND JUNCTION BOX, AND OUTLET BOX. COLOR-CODING SHALL BE USED FOR VOLTAGE AND PHASE IDENTIFICATION.

F. INSTALL CONTINUOUS UNDERGROUND PLASTIC MARKERS DURING TRENCH BACKFILLING, FOR EXTERIOR UNDERGROUND POWER, CONTROL, SIGNAL, AND COMMUNICATION LINES LOCATED DIRECTLY ABOVE POWER AND COMMUNICATION LINES. LOCATE 6 TO 8 INCHES BELOW FINISHED GRADE. IF WIDTH OF MULTIPLE LINES INSTALLED IN A COMMON TRENCH OR CONCRETE ENVELOPE DOES NOT EXCEED 16 INCHES, OVERALL, USE A SINGLE LINE MARKER.

G. USE THE FOLLOWING COLORS FOR CODING:

	208V	240V	480V	EQUIPMENT PHASE SEQUENCE
1. PHASE A:	BLACK	BLACK	BROWN	ABC, TOP TO BOTTOM, LEFT TO RIGHT, FRONT TO BACK
2. PHASE B:	RED	RED	ORANGE	
3. PHASE C:	BLUE		YELLOW	
4. NEUTRAL:	WHITE	WHITE	GREY	

GROUND CONDUCTOR - GREEN

H. INSTALL WARNING, CAUTION, AND INSTRUCTION SIGNS WHERE REQUIRED TO COMPLY WITH 29 CFR, CHAPTER XVII, PART 1910.145, AND WHERE NEEDED TO ENSURE SAFE OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND OF ITEMS TO WHICH THEY CONNECT. INSTALL ENGRAVED PLASTIC-LAMINATED INSTRUCTION SIGNS WITH APPROVED LEGEND WHERE INSTRUCTIONS ARE NEEDED FOR SYSTEM OR EQUIPMENT OPERATION. INSTALL METAL-BACKED BUTYRATE SIGNS FOR OUTDOOR ITEMS.

I. RECEPTACLES: IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH SERVED.

3.9 UTILITY COMPANY ELECTRICITY-METERING EQUIPMENT

A. INSTALL EQUIPMENT ACCORDING TO UTILITY COMPANY'S WRITTEN REQUIREMENTS. PROVIDE GROUNDING AND EMPTY CONDUITS AS REQUIRED BY UTILITY COMPANY.

3.10 FIRESTOPPING

A. APPLY FIRESTOPPING TO CABLE AND RACEWAY PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO ACHIEVE FIRE-RESISTANCE RATING OF THE ASSEMBLY.

3.11 CONCRETE BASES

A. CONSTRUCT CONCRETE BASES OF DIMENSIONS INDICATED, BUT NOT LESS THAN 4 INCHES LARGER, IN BOTH DIRECTIONS, THAN SUPPORTED UNIT. FOLLOW SUPPORTED EQUIPMENT MANUFACTURER'S ANCHORAGE RECOMMENDATIONS AND SETTING TEMPLATES FOR ANCHOR-BOLT AND TIE LOCATIONS, UNLESS OTHERWISE INDICATED. USE 3000-PSI, 28-DAY COMPRESSIVE-STRENGTH CONCRETE AND REINFORCEMENT.

3.12 CUTTING AND PATCHING

A. CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.

B. REPAIR AND REFINISH DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. INSTALL NEW FIREPROOFING WHERE EXISTING FIRESTOPPING HAS BEEN DISTURBED. REPAIR AND REFINISH MATERIALS AND OTHER SURFACES BY SKILLED MECHANICS OF TRADES INVOLVED.

3.13 FIELD QUALITY CONTROL

A. INSPECT INSTALLED COMPONENTS FOR DAMAGE AND FAULTY WORK, INCLUDING THE FOLLOWING:

1. RACEWAYS.

2. BUILDING WIRE AND CONNECTORS.

3. SUPPORTING DEVICES FOR ELECTRICAL COMPONENTS.

4. ELECTRICAL IDENTIFICATION.

5. CONCRETE BASES.

6. CUTTING AND PATCHING FOR ELECTRICAL CONSTRUCTION.

7. TOUCHUP PAINTING.

B. PERFORM THE FOLLOWING FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:

1. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.

2. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

3. REMOVE MALFUNCTIONING UNITS, REPLACE WITH NEW UNITS, AND RETEST AS SPECIFIED ABOVE.

3.14 REFINISHING AND TOUCHUP PAINTING

A. REFINISH AND TOUCH UP PAINT.

1. CLEAN DAMAGED AND DISTURBED AREAS AND APPLY PRIMER, INTERMEDIATE, AND FINISH COATS TO SUIT THE DEGREE OF DAMAGE AT EACH LOCATION.

2. FOLLOW PAINT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SURFACE PREPARATION AND FOR TIMING AND APPLICATION OF SUCCESSIVE COATS.

3. REPAIR DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH PAINT RECOMMENDED BY MANUFACTURER.

4. REPAIR DAMAGE TO PVC OR PAINT FINISHES WITH MATCHING TOUCHUP COATING RECOMMENDED BY MANUFACTURER.

3.15 CLEANING AND PROTECTION

A. ON COMPLETION OF INSTALLATION, INCLUDING OUTLETS, FITTINGS, AND DEVICES, INSPECT EXPOSED FINISH. REMOVE BURRS, DIRT, PAINT SPOTS, AND CONSTRUCTION DEBRIS.

B. PROTECT EQUIPMENT AND INSTALLATIONS AND MAINTAIN CONDITIONS TO ENSURE THAT COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

END OF BASIC ELECTRICAL MATERIALS AND METHODS

ENCLOSED SWITCHES AND CIRCUIT BREAKERS

PART 1 - GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING INDIVIDUALLY MOUNTED, ENCLOSED SWITCHES AND CIRCUIT BREAKERS:

1. FUSIBLE SWITCHES.

2. NONFUSIBLE SWITCHES.

3. MOLDED-CASE CIRCUIT BREAKER SWITCHES.

4. ENCLOSURES.

1.2 DEFINITIONS

A. GD: GENERAL DUTY.

B. GFCI: GROUND-FAULT CIRCUIT INTERRUPTER.

C. HD: HEAVY DUTY.

D. RMS: ROOT MEAN SQUARE.

E. SPDT: SINGLE POLE, DOUBLE THROW.

1.3 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF ENCLOSED SWITCH, CIRCUIT BREAKER, ACCESSORY, AND COMPONENT INDICATED. INCLUDE DIMENSIONED ELEVATIONS, SECTIONS, WEIGHTS, AND MANUFACTURERS' TECHNICAL DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, RATINGS, AND FINISHES.

1. ENCLOSURE TYPES AND DETAILS.

2. CURRENT AND VOLTAGE RATINGS.

3. SHORT-CIRCUIT CURRENT RATING.

4. FEATURES, CHARACTERISTICS, RATINGS, AND FACTORY SETTINGS OF INDIVIDUAL OVERCURRENT PROTECTIVE DEVICES AND AUXILIARY COMPONENTS.

B. SHOP DRAWINGS: DIAGRAM POWER, SIGNAL, AND CONTROL WIRING.

C. FIELD QUALITY-CONTROL TEST REPORTS INCLUDING THE FOLLOWING:

1. TEST PROCEDURES USED.

2. TEST RESULTS THAT COMPLY WITH REQUIREMENTS.

3. RESULTS OF FAILED TESTS AND CORRECTIVE ACTION TAKEN TO ACHIEVE TEST RESULTS THAT COMPLY WITH REQUIREMENTS.

D. OPERATION AND MAINTENANCE DATA: FOR ENCLOSED SWITCHES AND CIRCUIT BREAKERS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS. INCLUDE THE FOLLOWING:

1. MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TESTING AND ADJUSTING ENCLOSED SWITCHES AND CIRCUIT BREAKERS.

2. TIME-CURRENT CURVES, INCLUDING SELECTABLE RANGES FOR EACH TYPE OF CIRCUIT BREAKER.

1.4 QUALITY ASSURANCE

A. 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.

B. COMPLY WITH NFPA 70.

C. PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE MAXIMUM DIMENSIONS FOR ENCLOSED SWITCHES AND CIRCUIT BREAKERS, INCLUDING CLEARANCES BETWEEN ENCLOSURES, AND ADJACENT SURFACES AND OTHER ITEMS. COMPLY WITH INDICATED MAXIMUM DIMENSIONS.

1.5 COORDINATION

A. COORDINATE LAYOUT AND INSTALLATION OF SWITCHES, CIRCUIT BREAKERS, AND COMPONENTS WITH OTHER CONSTRUCTION, INCLUDING CONDUIT, PIPING, EQUIPMENT, AND ADJACENT SURFACES. MAINTAIN REQUIRED WORKSPACE CLEARANCES AND REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND PANELS.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE MANUFACTURERS SPECIFIED.

1. EATON CORPORATION; CUTLER-HAMMER PRODUCTS.

2. GENERAL ELECTRIC CO.; ELECTRICAL DISTRIBUTION & CONTROL DIVISION.

3. SQUARE D/GROUP SCHNEIDER.

2.2 FUSIBLE AND NONFUSIBLE SWITCHES

A. FUSIBLE SWITCH, 600A AND SMALLER: NEMA KS 1, TYPE HD, WITH CLIPS OR BOLT PADS TO ACCOMMODATE SPECIFIED FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

B. NONFUSIBLE SWITCH, 600A AND SMALLER: NEMA KS 1, TYPE HD, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

C. ACCESSORIES:

1. EQUIPMENT GROUND KIT: INTERNALLY MOUNTED AND LABELED FOR COPPER AND ALUMINUM GROUND CONDUCTORS.

2. NEUTRAL KIT: INTERNALLY MOUNTED; INSULATED, CAPABLE OF BEING GROUNDED, AND BONDED; AND LABELED FOR COPPER AND ALUMINUM NEUTRAL CONDUCTORS.

2.3 MOLDED-CASE CIRCUIT BREAKERS AND SWITCHES

A. MOLDED-CASE CIRCUIT BREAKER: NEMA AB 1, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.

1. THERMAL-MAGNETIC CIRCUIT BREAKERS: INVERSE TIME-CURRENT ELEMENT FOR LOW-LEVEL OVERLOADS AND INSTANTANEOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS. ADJUSTABLE MAGNETIC TRIP SETTING FOR CIRCUIT-BREAKER FRAME SIZES 250 A AND LARGER.

B. MOLDED-CASE CIRCUIT-BREAKER FEATURES AND ACCESSORIES:

1. STANDARD FRAME SIZES, TRIP RATINGS, AND NUMBER OF POLES.

2. LUGS: MECHANICAL STYLE SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND CONDUCTOR MATERIAL.

3. APPLICATION LISTING: TYPE HACR FOR HEATING, AIR-CONDITIONING, AND REFRIGERATING EQUIPMENT.

C. MOLDED-CASE SWITCHES: MOLDED-CASE CIRCUIT BREAKER WITH FIXED, HIGH-SET INSTANTANEOUS TRIP ONLY, AND SHORT-CIRCUIT WITHSTAND RATING EQUAL TO EQUIVALENT BREAKER FRAME SIZE INTERRUPTING RATING.

D. MOLDED-CASE SWITCH ACCESSORIES:

1. LUGS: MECHANICAL STYLE SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND MATERIAL OF CONDUCTORS.

2. APPLICATION LISTING: TYPE HACR FOR HEATING, AIR-CONDITIONING, AND REFRIGERATING EQUIPMENT.

2.4 ENCLOSURES

A. NEMA AB 1 AND NEMA KS 1 TO MEET ENVIRONMENTAL CONDITIONS OF INSTALLED LOCATION.

1. INDOOR LOCATIONS: NEMA 250, TYPE 1.

2. OUTDOOR LOCATIONS: NEMA 250, TYPE 4X.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE ELEMENTS AND SURFACES TO RECEIVE ENCLOSED SWITCHES AND CIRCUIT BREAKERS FOR COMPLIANCE WITH INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE.

B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION

A. COMPLY WITH APPLICABLE PORTIONS OF NECA 1, NEMA PB 1.1, AND NEMA PB 2.1 FOR INSTALLATION OF ENCLOSED SWITCHES AND CIRCUIT BREAKERS.

B. MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES AND CIRCUIT BREAKERS WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.

3.3 IDENTIFICATION

A. IDENTIFY FIELD-INSTALLED CONDUCTORS, INTERCONNECTING WIRING, AND COMPONENTS; PROVIDE WARNING SIGNS ACCORDING TO BASIC ELECTRICAL MATERIALS AND METHODS.

B. ENCLOSURE NAMEPLATES: LABEL EACH ENCLOSURE WITH ENGRAVED LAMINATED-PLASTIC NAMEPLATE ACCORDING TO BASIC ELECTRICAL MATERIALS AND METHODS. LABEL SHALL INCLUDE, EACH ON A SEPARATE LINE OF TEXT, THE EQUIPMENT NAME AND NUMBER; VOLTAGE; AND SOURCE OF POWER. (FOR EXAMPLE: CU-1, 208V, CKT A-7)

3.4 FIELD QUALITY CONTROL

A. PREPARE FOR ACCEPTANCE TESTING AS FOLLOWS:

1. INSPECT MECHANICAL AND ELECTRICAL CONNECTIONS.

2. VERIFY SWITCH AND RELAY TYPE AND LABELING VERIFICATION.

3. VERIFY RATING OF INSTALLED FUSES.

4. INSPECT PROPER INSTALLATION OF TYPE, SIZE, QUANTITY, AND ARRANGEMENT OF MOUNTING OR ANCHORAGE DEVICES COMPLYING WITH MANUFACTURER'S CERTIFICATION.

B. PERFORM THE FOLLOWING FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS:

1. PERFORM EACH ELECTRICAL TEST INCLUDING VISUAL AND MECHANICAL INSPECTION STATED IN NETA ATS, SECTION 7.5 FOR SWITCHES AND SECTION 7.6 FOR MOLDED-CASE CIRCUIT BREAKERS. CERTIFY COMPLIANCE WITH TEST PARAMETERS.

2. CORRECT MALFUNCTIONING UNITS ON-SITE, WHERE POSSIBLE, AND RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REPLACE IN-KIND WITH NEW UNITS AND RETEST.

3.5 CLEANING

A. ON COMPLETION OF INSTALLATION, VACUUM DIRT AND DEBRIS FROM INTERIORS; DO NOT USE COMPRESSED AIR TO ASSIST IN CLEANING.

B. INSPECT EXPOSED SURFACES AND REPAIR DAMAGED FINISHES.

END OF ENCLOSED SWITCHES AND CIRCUIT BREAKERS

FUSES

PART 1 - GENERAL

1.1 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:

1. CARTRIDGE FUSES RATED 600 V AND LESS FOR USE IN SWITCHES.

1.2 SUBMITTALS

A. PRODUCT DATA: INCLUDE THE FOLLOWING FOR EACH FUSE TYPE INDICATED:

1. DIMENSIONS AND MANUFACTURER'S TECHNICAL DATA ON FEATURES, PERFORMANCE, ELECTRICAL CHARACTERISTICS, AND RATINGS.

2. LET-THROUGH CURRENT CURVES FOR FUSES WITH CURRENT-LIMITING CHARACTERISTICS.

3. TIME-CURRENT CURVES, COORDINATION CHARTS AND TABLES, AND RELATED DATA.

B. AMBIENT TEMPERATURE ADJUSTMENT INFORMATION: IF RATINGS OF FUSES HAVE BEEN ADJUSTED TO ACCOMMODATE AMBIENT TEMPERATURES, PROVIDE LIST OF FUSES WITH ADJUSTED RATINGS.

1. FOR EACH FUSE HAVING ADJUSTED RATINGS, INCLUDE LOCATION OF FUSE, ORIGINAL FUSE RATING, LOCAL AMBIENT TEMPERATURE, AND ADJUSTED FUSE RATING.

2. PROVIDE MANUFACTURER'S TECHNICAL DATA ON WHICH AMBIENT TEMPERATURE ADJUSTMENT CALCULATIONS ARE BASED AND REQUIRED.

1.3 QUALITY ASSURANCE

A. SOURCE LIMITATIONS: OBTAIN FUSES FROM A SINGLE MANUFACTURER.

B. 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.

C. COMPLY WITH NEMA FU 1.

D. COMPLY WITH NFPA 70.

1.4 COORDINATION

A. COORDINATE FUSE RATINGS WITH UTILIZATION EQUIPMENT NAMEPLATE LIMITATIONS OF MAXIMUM FUSE SIZE.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

1. COOPER BUSSMAN, INC.

2. EAGLE ELECTRIC MFG. CO., INC.; COOPER INDUSTRIES, INC.

3. FERRAZ SHAWMUT, INC.

4. TRACOR, INC.; LITTELFUSE, INC. SUBSIDIARY.

2.2 CARTRIDGE FUSES

A. CHARACTERISTICS: NEMA FU 1, NONRENEWABLE CARTRIDGE FUSE; CLASS AND CURRENT RATING INDICATED; VOLTAGE RATING CONSISTENT WITH CIRCUIT VOLTAGE.

PART 3 - EXECUTION

3.1 EXAMINATION

A. EXAMINE UTILIZATION EQUIPMENT NAMEPLATES AND INSTALLATION INSTRUCTIONS. INSTALL FUSES OF SIZES AND WITH CHARACTERISTICS APPROPRIATE FOR EACH PIECE OF EQUIPMENT.

B. EVALUATE AMBIENT TEMPERATURES TO DETERMINE IF FUSE RATING ADJUSTMENT FACTORS MUST BE APPLIED TO FUSE RATINGS.

C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 FUSE APPLICATIONS

A. MOTOR BRANCH CIRCUITS: CLASS RK5, TIME DELAY.

B. OTHER BRANCH CIRCUITS: CLASS RK5, TIME DELAY.

3.3 INSTALLATION

A. INSTALL FUSES IN FUSIBLE DEVICES. ARRANGE FUSES SO RATING INFORMATION IS VISIBLE WITHOUT REMOVING FUSE.

3.4 IDENTIFICATION

A. INSTALL LABELS INDICATING FUSE REPLACEMENT INFORMATION ON INSIDE DOOR OF EACH FUSED SWITCH.

END OF FUSES

AS-BUILT
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS REPRESENT THE AS CONSTRUCTED CONDITIONS OF THIS PROJECT.

ACON CONSTRUCTION CO., INC.

REVISIONS			
DESCRIPTION		BY	APVD

DESIGNED BY: DAO
DRAWN BY: CDM
CHECKED BY: SJC
APPROVED BY: JDC

RS&H
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500
Certificate of Authorization No. 5620
Engineer of Record: Stephen Conway, P.E. No.: 53532

JAXPORT
JACKSONVILLE PORT AUTHORITY

DAMES POINT MARINE TERMINAL CRUISE TERMINAL GANGWAY

ELECTRICAL SPECIFICATIONS

SHEET E-6
DATE JULY 2018
CONTRACT NO. C-1575A

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