

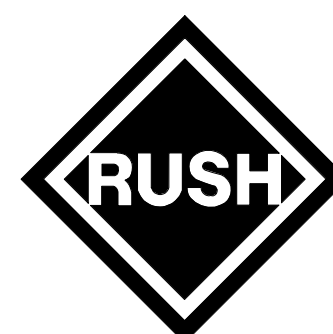
CONSTRUCT EMBRAER AERO SEATING TECHNOLOGIES FACILITY



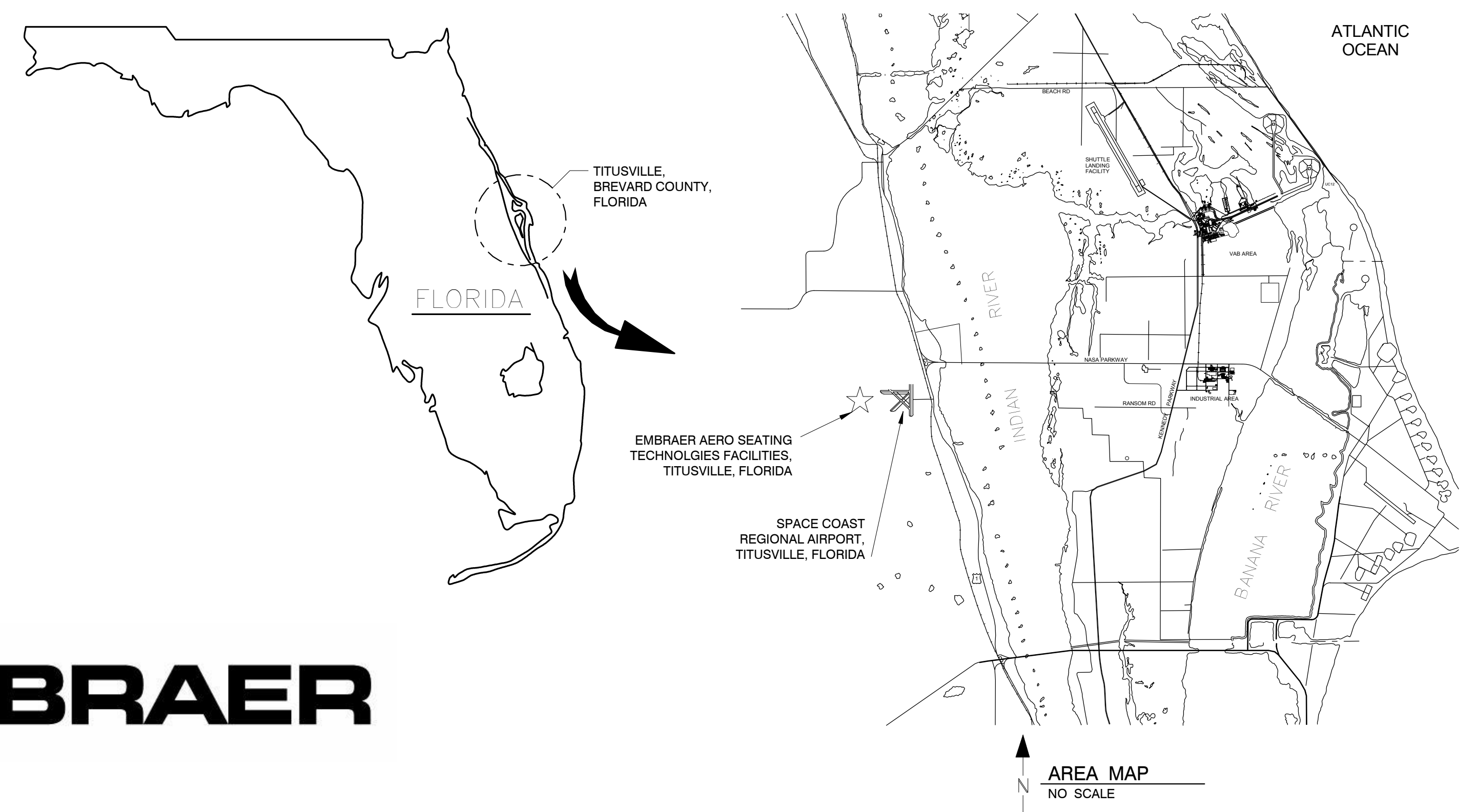
CONTRACT SET FOR CONSTRUCTION
DATE: 03/03/2016

PRODUCTION BUILDING
1600 ARMSTRONG DRIVE
TITUSVILLE, FL 32780

RS&H RS&H, INC.
 115 ALMA BLVD.
 MERRITT ISLAND, FL 32953
 321-453-0212
 WWW.RSANDH.COM

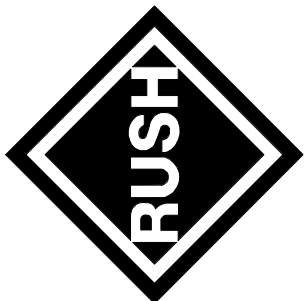


RUSH CONSTRUCTION INC
 6285 VECTORSPACE BLVD.
 TITUSVILLE, FL 32780
 321-267-8100
 WWW.RUSHINC.COM



SHEET INDEX PRODUCTION BUILDING				
Sheet Number	Sheet Name	Submitted For Permit	For Reference Only	Current Revision
G01	PRODUCTION BUILDING COVER SHEET	Yes	No	
G02	PRODUCTION BLDG - DRAWING INDEX	Yes	No	
LS001	LIFE SAFETY - PRODUCTION BUILDING	Yes	No	
S001	GENERAL NOTES	No	Yes	
S002	GENERAL NOTES	No	Yes	
S101	FOUNDATION & SLAB PLAN-PRODUCTION BLDG.	No	Yes	
S111	ROOF FRAMING PLAN-PRODUCTION BLDG.	No	Yes	1
S201	PANEL ELEVATIONS-PRODUCTION BLDG.	No	Yes	
S301	SECTIONS-PRODUCTION BLDG.	No	Yes	
S501	FOUNDATION DETAILS	No	Yes	
S502	FRAMING DETAILS	No	Yes	
A001	LEGENDS AND ABBREVIATIONS	Yes	No	
A101	PRODUCTION BLDG - FLOOR PLAN	Yes	No	
A101A	PRODUCTION BUILDING - WEST ZONE ENLARGED PLAN	Yes	No	3
A101B	PRODUCTION BUILDING - EAST ZONE ENLARGED PLAN	Yes	No	
A101C	PRODUCTION BLDG - EQUIPMENT PLAN	No	Yes	2
A101D	PRODUCTION BLDG - WEST ZONE ENLARGED EQUIPMENT PLAN	No	Yes	2
A101E	PRODUCTION BLDG - EAST ZONE ENLARGED EQUIPMENT PLAN	No	Yes	2
A111	PRODUCTION BLDG - REFLECTED CEILING PLAN	Yes	No	
A111B	PRODUCTION BLDG - EAST ZONE REFLECTED CEILING PLAN	Yes	No	
A121	PRODUCTION BLDG - ROOF PLAN	Yes	No	3
A201	PRODUCTION BLDG - EXTERIOR ELEVATIONS	Yes	No	
A202	PRODUCTION BLDG - EXTERIOR ELEVATIONS	Yes	No	
A301	PRODUCTION BLDG - BUILDING SECTIONS	Yes	No	
A303	PRODUCTION BLDG - WALL SECTIONS	Yes	No	
A304	PRODUCTION BLDG - WALL SECTIONS	Yes	No	
A401	PRODUCTION BLDG - ENLARGED PLANS AND INTERIOR ELEVATIONS	Yes	No	3
A404	INTERIOR ELEVATION SCHEDULES AND DETAILS	Yes	No	3
A405	PRODUCTION BLDG - FINISH SCHEDULE AND LEGEND	Yes	No	
A501	PARTITION TYPES	Yes	No	2
A601	ROOF DETAILS	Yes	No	
A602	DETAILS	Yes	No	
A701	PRODUCTION BLDG - DOOR AND WINDOW SCHEDULE	Yes	No	2
A703	DOOR, FRAME AND WINDOW ELEVATIONS	Yes	No	
A704	DOOR AND WINDOW DETAILS	Yes	No	
A705	DOOR DETAILS	Yes	No	3

SHEET INDEX PRODUCTION BUILDING				
Sheet Number	Sheet Name	Submitted For Permit	For Reference Only	Current Revision
M001	MECHANICAL NOTES AND ABBREVIATIONS	Yes	No	2
M002	MECHANICAL LEGEND AND SYMBOLS	Yes	No	
M101	PRODUCTION BLDG - MECHANICAL PLAN	Yes	No	2
M101A	PRODUCTION BUILDING - WEST ZONE ENLARGED MECHANICAL PLAN	Yes	No	
M101B	PRODUCTION BUILDING - EAST ZONE ENLARGED MECHANICAL PLAN	Yes	No	2
M101C	PRODUCTION BLDG - WEST ZONE ENLARGED MECH. PLAN WITH EQUIPMENT	No	Yes	2
M101D	PRODUCTION BLDG - EAST ZONE ENLARGED MECH. PLAN WITH EQUIPMENT	No	Yes	2
M121	PRODUCTION BLDG - MECHANICAL ROOF PLAN	Yes	No	3
M501	MECHANICAL DETAILS	Yes	No	2
M502	MECHANICAL DETAILS	Yes	No	
M503	MECHANICAL DETAILS	Yes	No	
M601	MECHANICAL CONTROL SCHEMATIC	Yes	No	
M701	MECHANICAL SCHEDULES	Yes	No	
P001	LEGEND, ABBREVIATIONS AND GENERAL PLUMBING NOTES	Yes	No	
P101	PRODUCTION BLDG - PLUMBING PLAN	Yes	No	
P101A	PRODUCTION BUILDING PLUMBING PLAN - WEST ZONE	Yes	No	
P101B	PRODUCTION BUILDING PLUMBING PLAN - EAST ZONE	Yes	No	
P401	ENLARGED PLUMBING PLANS	Yes	No	2
P501	PLUMBING DETAILS	Yes	No	
P502	PLUMBING DETAILS	Yes	No	
P601	PRODUCTION BLDG PLUMBING RISERS	Yes	No	
P701	PLUMBING SCHEDULES	Yes	No	
P702	PLUMBING SCHEDULES	Yes	No	
E001	GENERAL NOTES, LEGEND AND ABBREVIATIONS	Yes	No	
ES001	ELECTRICAL SITE PLAN	Yes	No	
ES101	PRODUCTION BUILDING LIGHTNING PROTECTION AND GROUNDING PLAN	Yes	No	
EP101A	PRODUCTION BUILDING WEST ZONE POWER PLAN	Yes	No	
EP101B	PRODUCTION BUILDING EAST ZONE POWER PLAN	Yes	No	
EP101C	PRODUCTION BUILDING WEST ZONE POWER PLAN WITH EQUIPMENT	No	Yes	
EP101D	PRODUCTION BUILDING EAST ZONE POWER PLAN WITH EQUIPMENT	No	Yes	
EL101A	PRODUCTION BUILDING WEST ZONE LIGHTING PLAN	Yes	No	
EL101B	PRODUCTION BUILDING EAST ZONE LIGHTING PLAN	Yes	No	
EL101C	PRODUCTION BUILDING WEST ZONE LIGHTING PLAN WITH EQUIPMENT	No	Yes	
EL101D	PRODUCTION BUILDING EAST ZONE LIGHTING PLAN WITH EQUIPMENT	No	Yes	
ET101A	PRODUCTION BUILDING WEST ZONE SYSTEMS PLAN	Yes	No	
ET101B	PRODUCTION BUILDING EAST ZONE SYSTEMS PLAN	Yes	No	
ET101C	PRODUCTION BUILDING WEST ZONE SYSTEMS PLAN WITH EQUIPMENT	No	Yes	
ET101D	PRODUCTION BUILDING EAST ZONE SYSTEMS PLAN WITH EQUIPMENT	No	Yes	
E401	ENLARGED ELECTRICAL ROOM	Yes	No	
E500	POWER DETAILS	Yes	No	
E510	LIGHTING DETAILS	Yes	No	
E520	SYSTEMS DETAILS	Yes	No	
E530	LIGHTNING PROTECTION DETAILS	Yes	No	
E600	POWER RISER DIAGRAM	Yes	No	
E601	PANEL SCHEDULES - PRODUCTION	Yes	No	
E602	PANEL SCHEDULES - PRODUCTION	Yes	No	
E610	LIGHTING CONTROL DIAGRAMS AND FIXTURE SCHEDULE	Yes	No	2
E620	TELECOM RISER DIAGRAM	Yes	No	
E630	FIRE ALARM RISER DIAGRAM AND MATRIX	Yes	No	
F001	FIRE PROTECTION NOTES, LEGEND AND ABBREVIATIONS	Yes	No	
F101	PRODUCTION BUILDING - FIRE PROTECTION PLAN	Yes	No	

[illegible]

	DESIGNED BY:		DATE:
	TGD	SWD BY:	03/03/16
	BWM	SEC	
	SUBMITTED BY:		
	TGD	FILE NAME:	
115 ALMA BLVD., SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com		SIZE D	PLOT DATE:
		22"x34"	03/03/16



EMBRAER

EMBRAER AERO SEATING

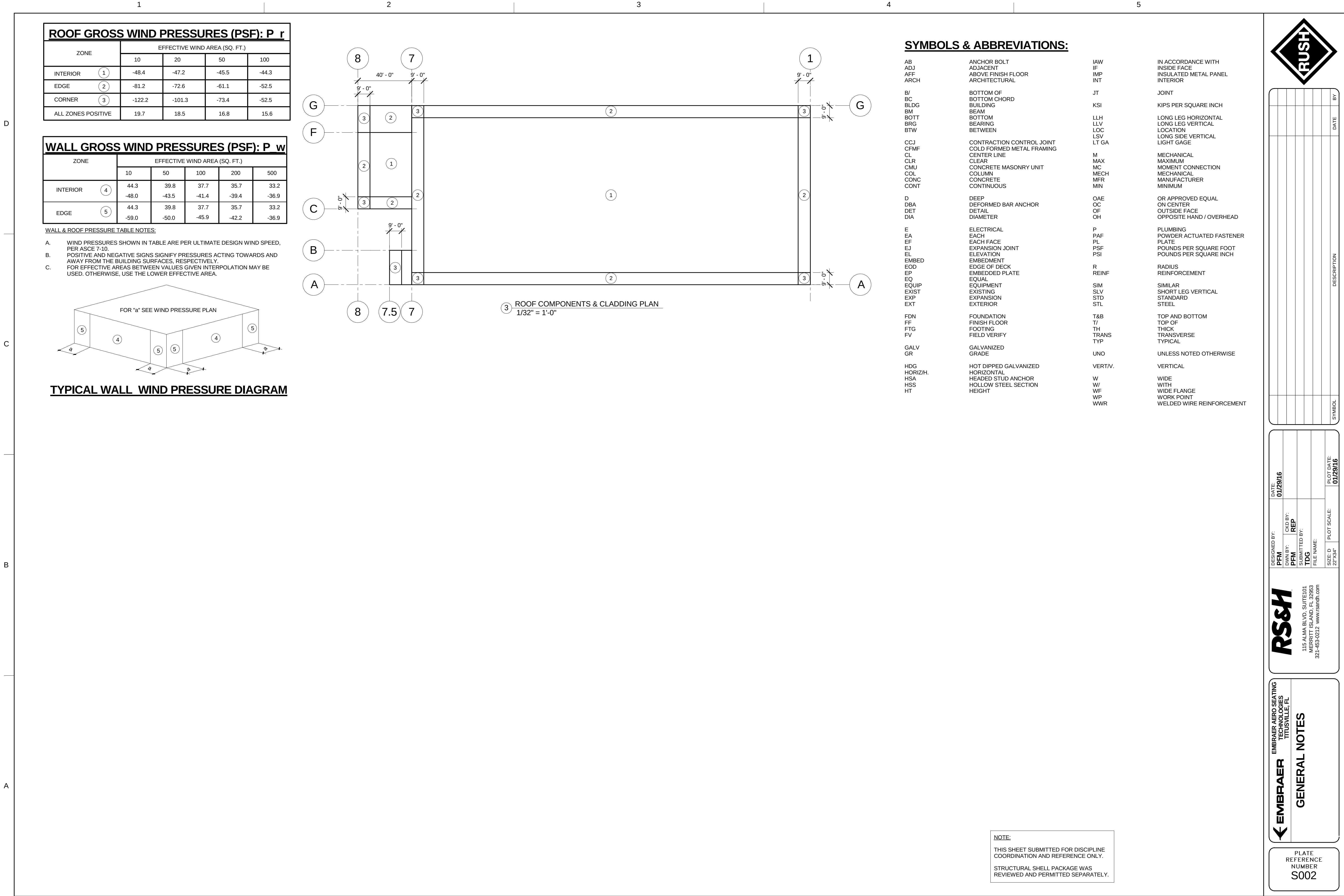
TECHNOLOGIES

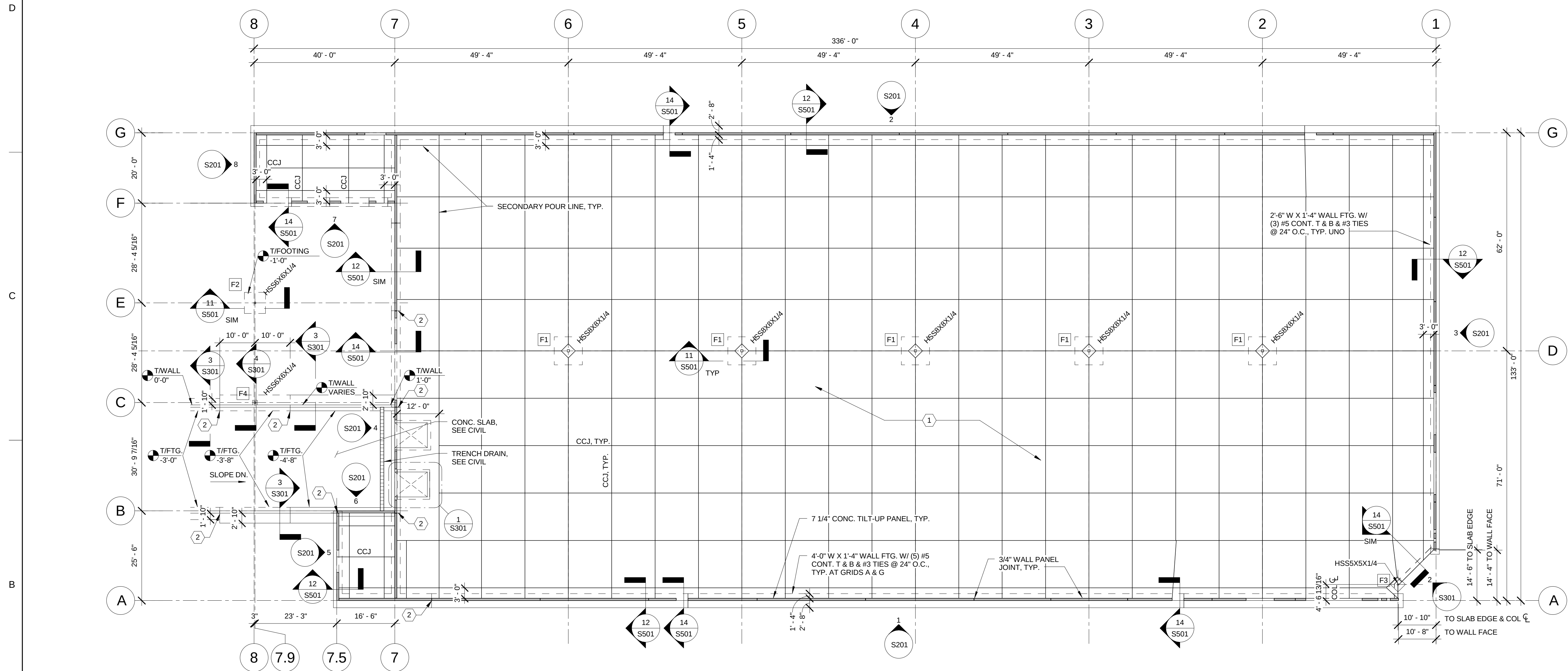
TITUSSVILLE, FL

PRODUCTION BLDG -

DRAWING INDEX

PLATE
REFERENCE
NUMBER
G02





PRODUCTION BLDG FOUNDATION PLAN

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

FOUNDATION PLAN NOTES:

- A. T/SLAB EL. 0'-0" = 27.00. SEE CIVIL DWG'S.
- B. T/FTG. EL. = -0'-8" UNO (SEE S201).
- C. SEE MECH, ELEC, AND PLUMBING DRAWINGS FOR EQUIP. PAD LOCATIONS. SEE S501 FOR DETAIL.
- D. SEE MECH, ELEC, AND PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.

CCJ INDICATES CONTRACTION CONTROL JOINT.
SEE S501.

F INDICATES COLUMN FOOTING TYPE.
SEE SCHEDULE, THIS SHEET.

FOUNDATION PLAN KEYNOTES:

- | | |
|--|---|
| <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin-bottom: 10px;">1</div> <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">2</div> | <p>5" SLAB ON GRADE W/ WWR 6X6-W2.9XW2.9 ON 10 MIL VAPOR BARRIER.</p> <p>FOOTING STEP. SEE DETAIL, S501. SEE S201 FOR FOOTING ELEVATIONS.</p> |
|--|---|

MARK	DIMENSIONS	REINFORCING	BASE PLATE	ANCHOR BOLTS
F1	8'-0" SQ. X 24" TH.	(10) #6 EA. WAY T & B	1'-2" SQ. X 1" TH.	1" DIA. X 18" EMBED.
F2	7'-0" SQ. X 18" TH.	(9) #5 EA. WAY T & B	1'-0" SQ. X 3/4" TH.	3/4" DIA. X 14" EMBED.
F3	3'-0" SQ. X 14" TH.	(3) #5 EA. WAY B	1'-0" SQ. X 3/4" TH.	3/4" DIA. X 10" EMBED.
F4	PIER, SEE SECTION		1'-0" SQ. X 3/4" TH.	3/4" DIA. X 14" EMBED.

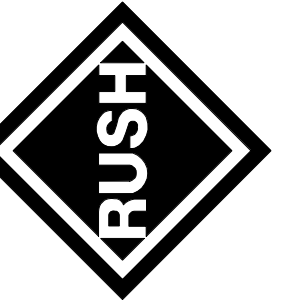
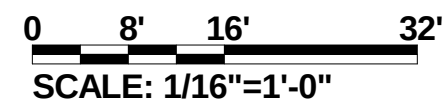
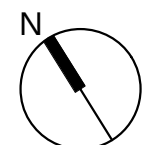
COLUMN FOOTING SCHEDULE

NOTES:
A. SEE SHEET S501 FOR SECTIONS & DETAILS.

NOTE:

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STRUCTURAL SHELL PACKAGE WAS
REVIEWED AND PERMITTED SEPARATELY.

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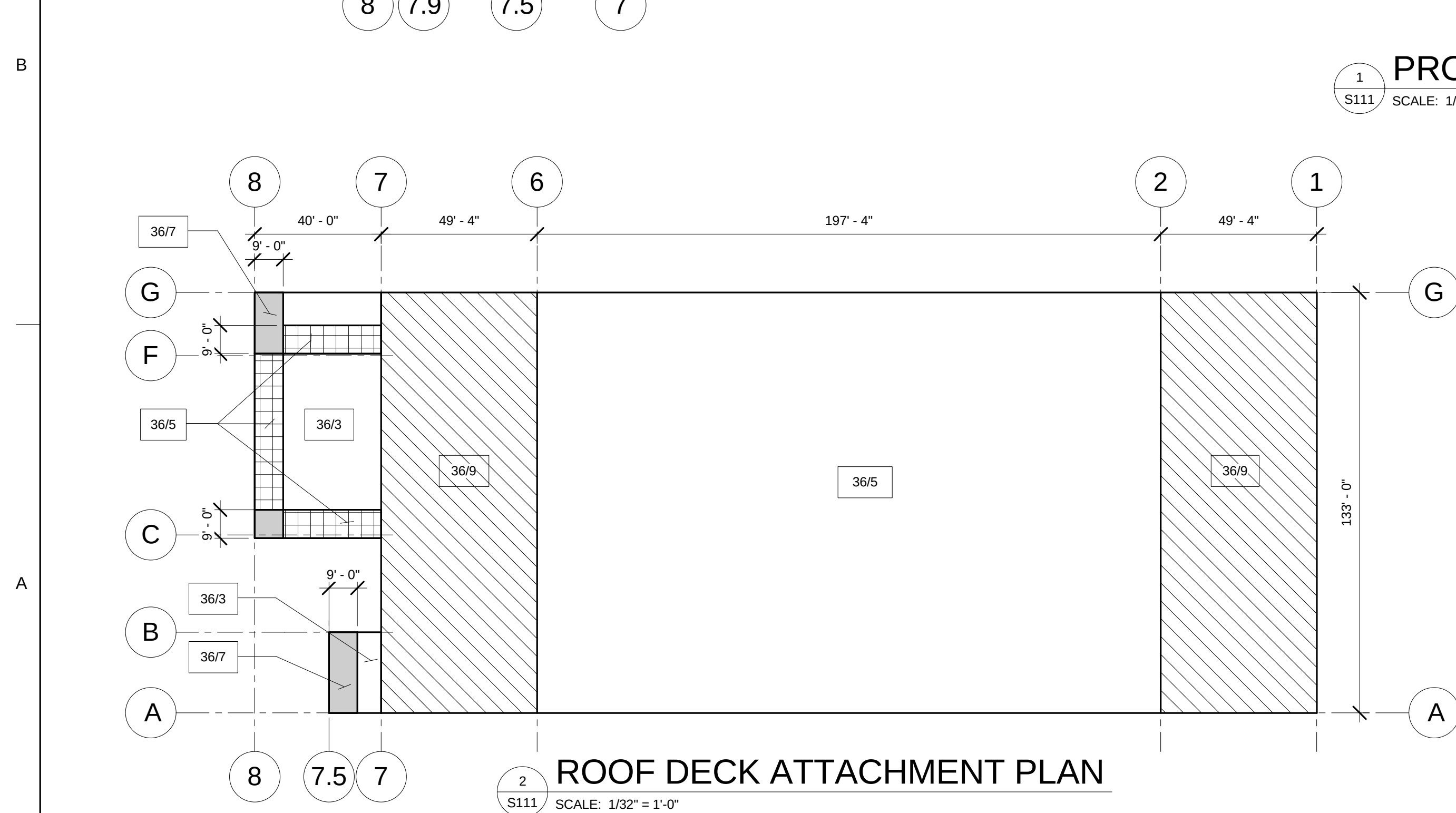
PFM	01/29/16	
DWN BY:	CKD BY:	
PFM	REP	
SUBMITTED BY:		
TDG		
FILE NAME:		
SIZE: D	PLOT SCALE:	PLOT DATE:
22"x34"		01/29/16

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TITUSVILLE, FL

**FOUNDATION & SLAB
PLAN-PRODUCTION BLDG.**

PLATE
REFERENCE
NUMBER
6101



1
S111

- A. T/STL. EL. = JOIST BRG. EL. SEE PLAN.
- B. JOIST BRIDGING SHALL BE PER S.J.I., TYP. BRIDGING SHALL BE SHOWN ON JOIST MFR'S JOIST LAYOUT PLAN.
- C. SEE S500 SHEETS FOR TYPICAL ROOF FRAMING DETAILS.

XXX INDICATES TOP OF STEEL ELEVATION, UNO.

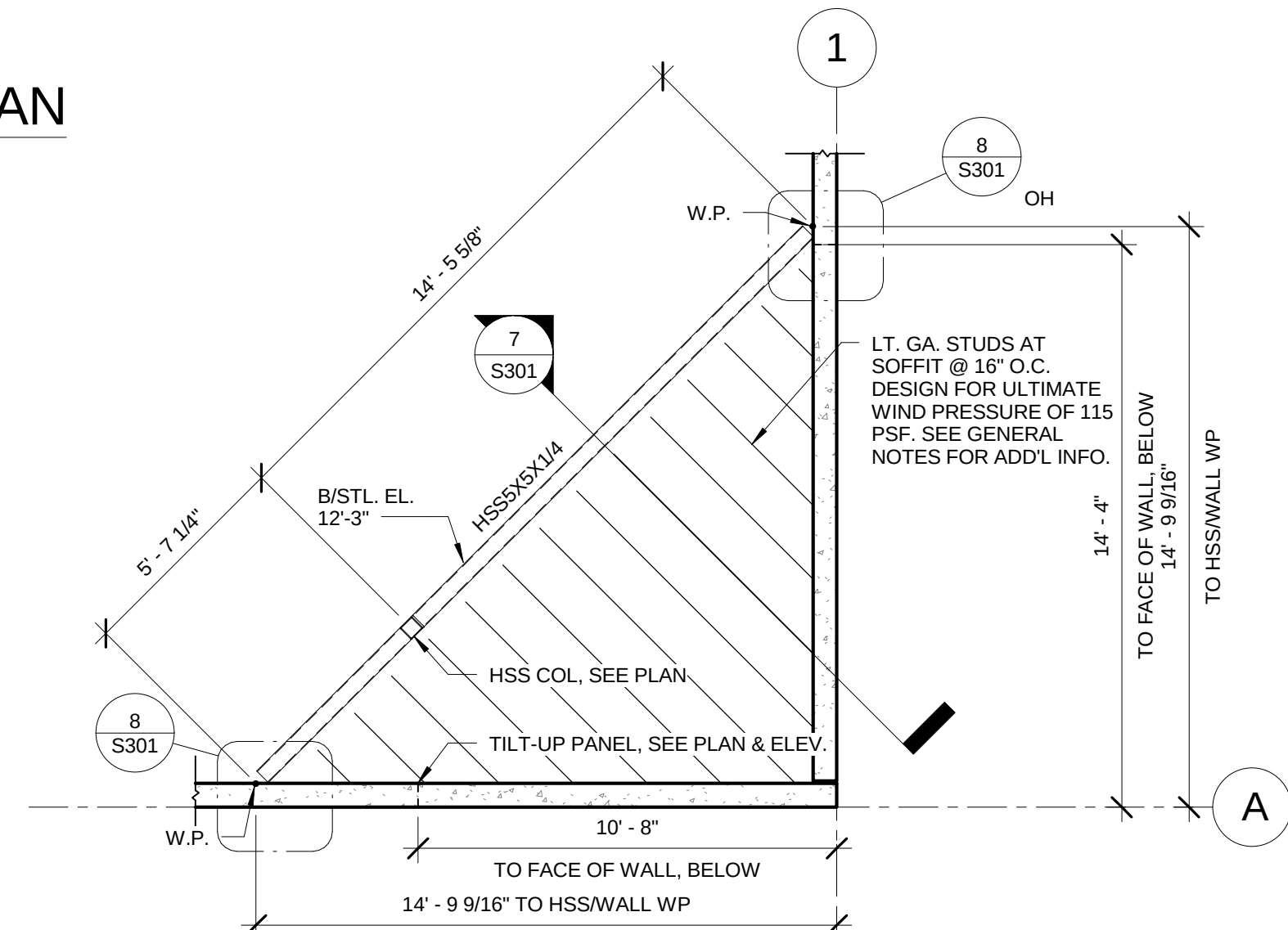
P_ INDICATES ADDITIONAL CONCENTRATED POINT LOAD, TO BE INCLUDED IN JOIST & JOIST GIRDER DESIGN.

MARK	DEAD	WIND (+/-)
P1	100 LBS	+/- 300 LBS
P2	1,200 LBS	+/- 3,600 LBS
P3	400 LBS	+/- 1,200 LBS
P4	450 LBS	+/- 2,500 LBS
P5	250 LBS	+/- 1,400 LBS

- A. JOIST DESIGNER SHALL DETERMINE JOIST LOADS FROM LOADS SHOWN IN TABLE, IN ADDITION TO ALL OTHER LOADS SHOWN ON DRAWINGS.
- B. JOIST DESIGNER SHALL USE ASCE 7-10 LOAD COMBINATIONS. WIND LOAD IN TABLE IS ULTIMATE.
- C. JOIST DESIGNER SHALL DISTRIBUTE LOADS IN TABLE TO JOIST GIRDERS, AND INCLUDE THEM AS ADDITIONAL LOAD IN JOIST GIRDER DESIGN.

R STEEL ROOF DECK TYPE AND SPAN DIRECTION. SEE SHEET S001.

1 SEE A/M/E/P DRAWINGS FOR OPENINGS IN METAL DECK, SEE DETAIL, SHEET S502.



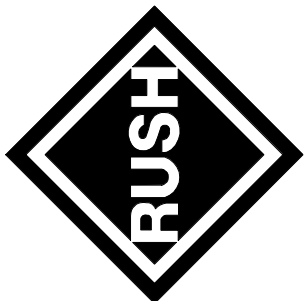
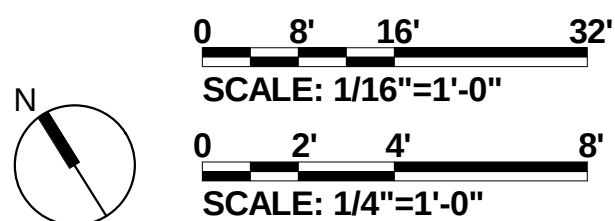
3
S111

ENTRA

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

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DESIGNED BY: PFM		DATE: 01/29/16	
DWN BY: PFM	CKD BY: REP		
SUBMITTED BY: TDG			
FILE NAME:			
SIZE: D 22"x34"	PLOT SCALE:	PLOT DATE: 01/29/16	

RS&H

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**IMBRAER AERO SEATING
TECHNOLOGIES
TITUSVILLE, FL**

EMBRAER EMBRAER AERO SEATING
TECHNOLOGIES
TITUSVILLE, FL

ROOF FRAMING

PLAN-PRODUCTION BLDG.

PLATE
REFERENCE
NUMBER
S111

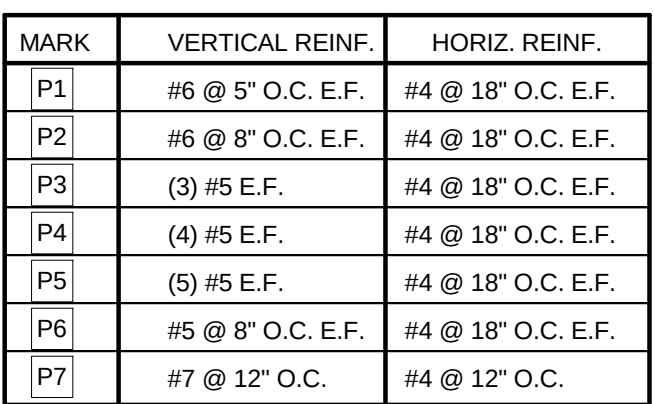
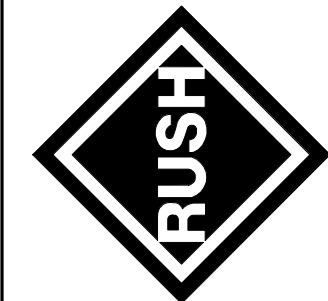
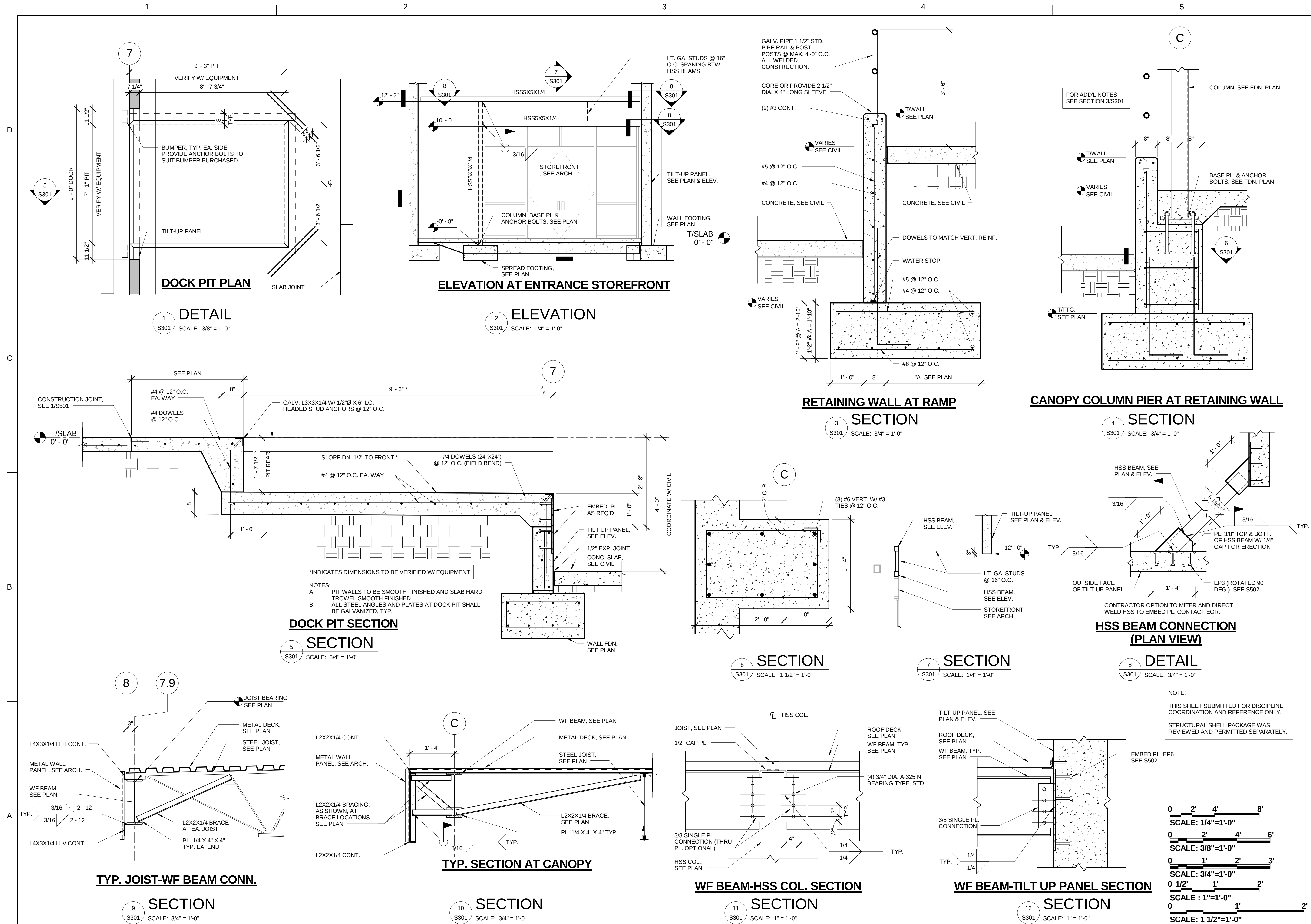


PLATE
REFERENCE
NUMBER
S201



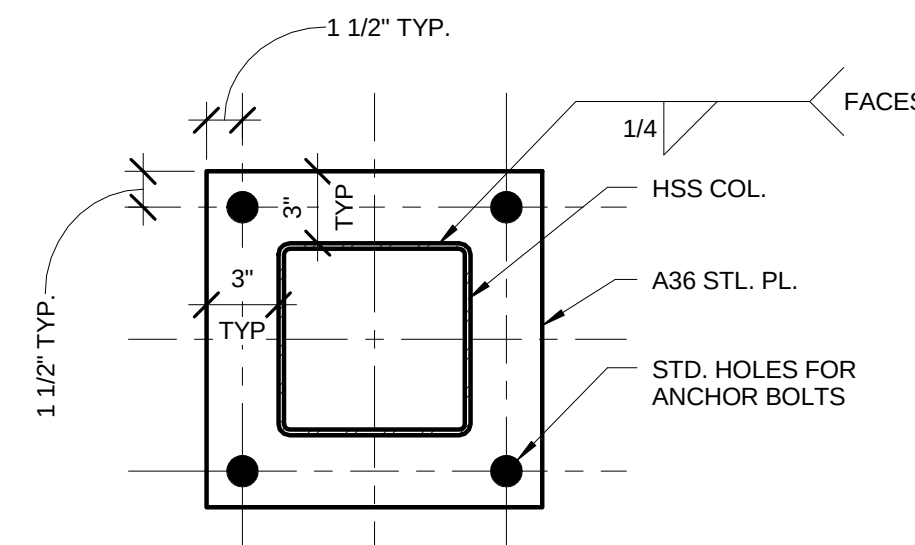
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01/29/16			

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DWN BY: PFM	REP	
SUBMITTED BY: TDG		
FILE NAME:		
SIZE: D	PLOT SCALE:	PLOT DATE: 01/29/16
22"x34"		

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115 ALMA BLVD, SUITE 101
MERRITT ISLAND, FL 32953
321-453-0212 www.rsandh.com

EMBRAER AERO SEATING TECHNOLOGIES
TITUSVILLE, FL
SECTIONS-PRODUCTION
BLDG.

PLATE REFERENCE NUMBER
S301

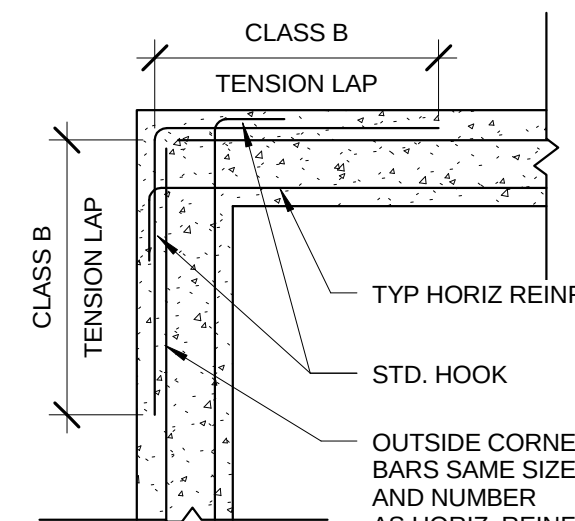


HSS COLUMN BASE PLATE DETAIL

HSS COLUMN BASE PLATE DETAIL

3
S501

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



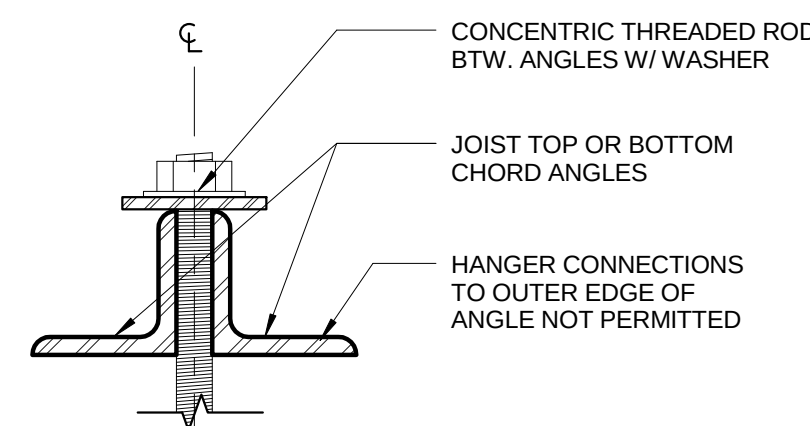
TYP. HORIZ. REINFORCING
AT CONCRETE FTG. CORNERS

TYP. HORIZ. REINFORCING
AT CONCRETE FTG. CORNERS

6
S501

DETAIL

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

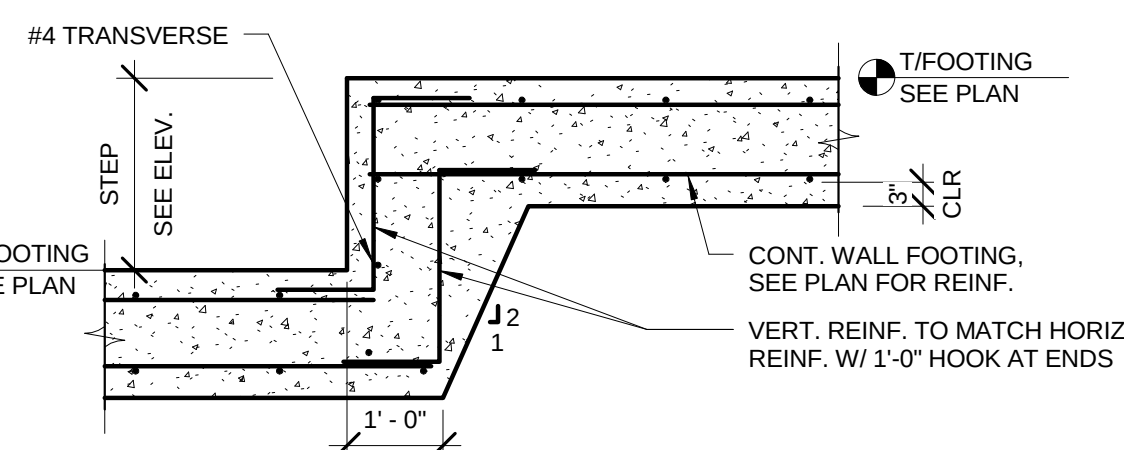


TYP. HANGER LOAD AT JOIST CHORD

TYP. HANGER LOAD AT JOIST CHORD

9
S501

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



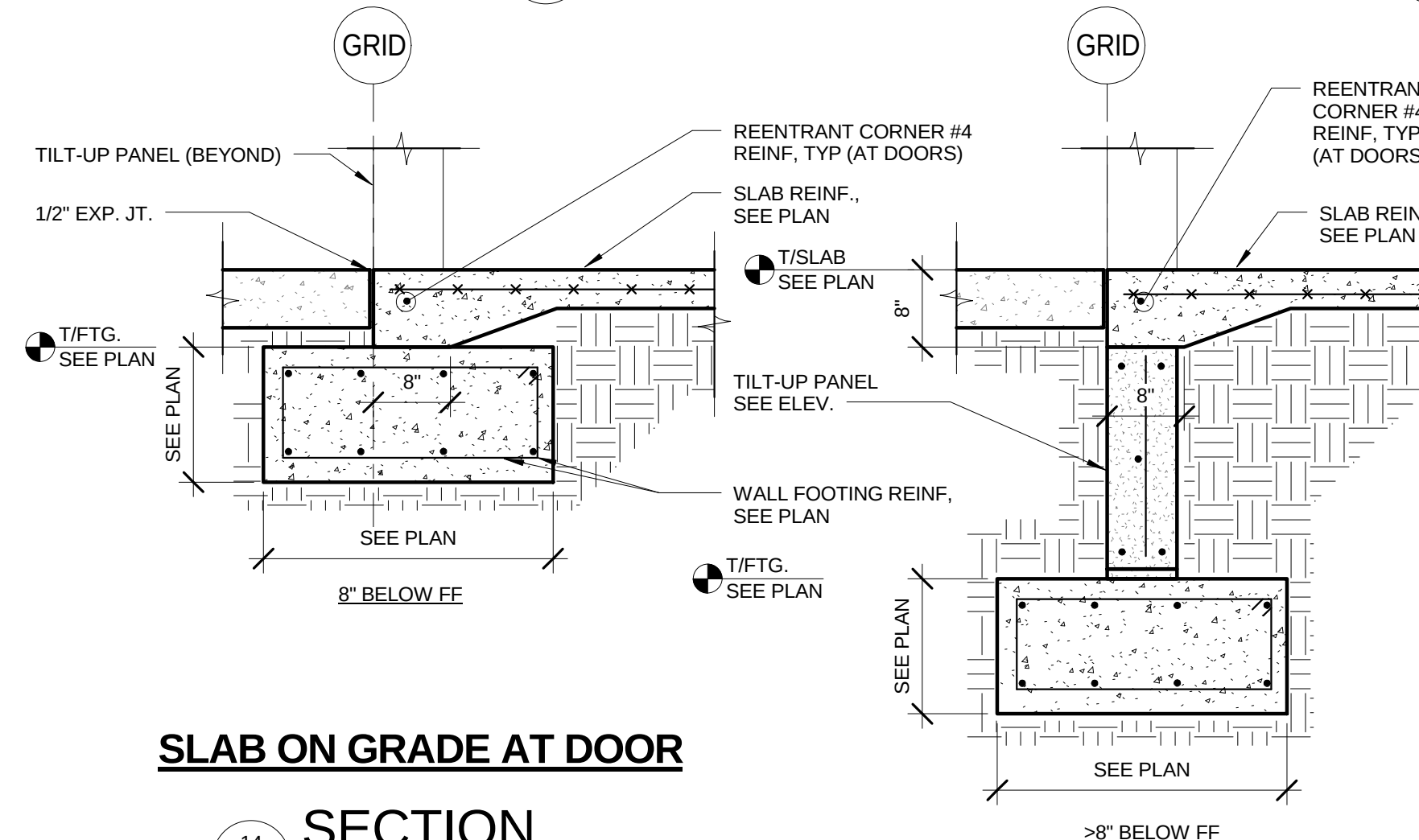
14 SECTION
S501 SCALE: 3/4" = 1'-0"

14 SECTION
S501 SCALE: 3/4" = 1'-0"

13
S501

DETAIL

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



NOTE:

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STRUCTURAL SHELL PACKAGE WAS REVIEWED AND PERMITTED SEPARATELY.

0 1' 2' 3'

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

0 1/2' 1' 2'

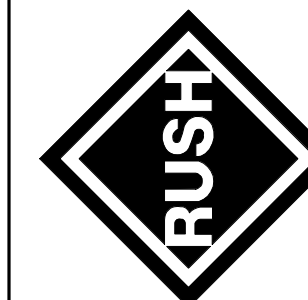
SCALE : 1"=1'-0"

0 1' 2'

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

0 3" 6"

SCALE: 3"=1'-0"

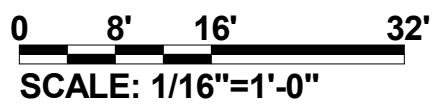
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DESIGNED BY:	DATE:
PPM	01/29/16
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PPM	
REP	
SUBMITTED BY:	
TDG	
FILE NAME:	
SIZE: D	PILOT SCALE:
	PILOT DATE:

RS&H
115 ALMA BLVD, SUITE101
MERRITT ISLAND, FL 32953

EMBRAER EMBRAER AERO SEATING
TECHNOLOGIES
TITUSVILLE, FL

PLATE
REFERENCE
NUMBER
S501

[illegible]

RS&H		DESIGNED BY:		TDG		DATE:		03/03/16	
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		SUBMITTAL BY:		TDG		SEC			
		FILE NAME:							
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		22"X34"							



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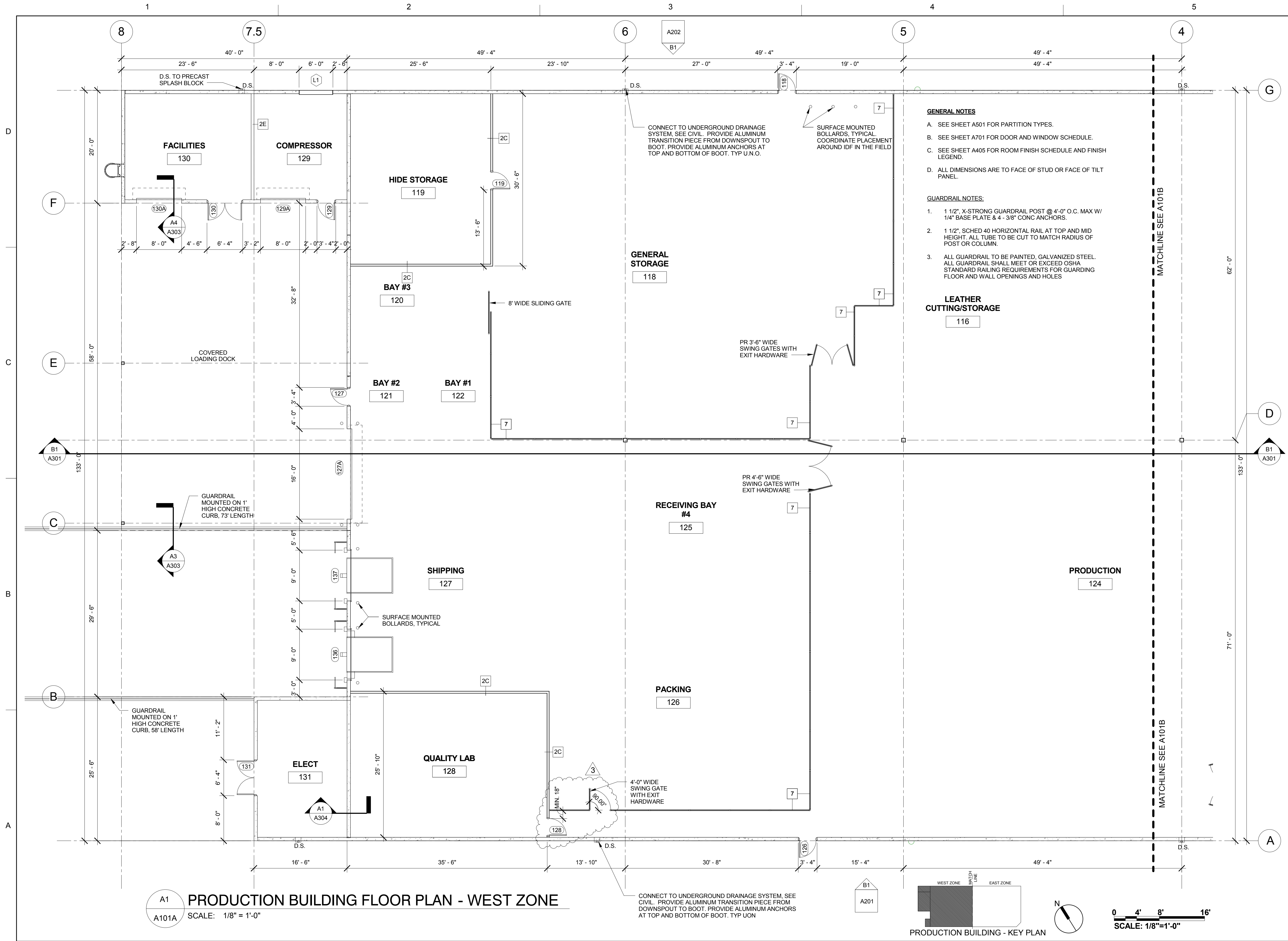
TECHNOLOGIES

TTTUSVILLE, FL

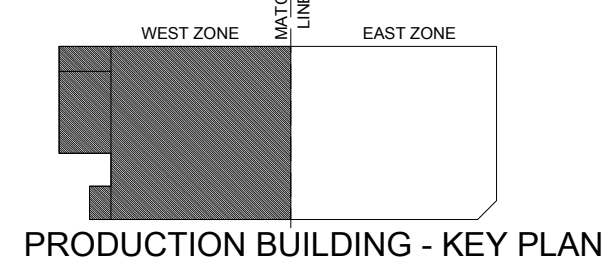
PRODUCTION BLDG -

FLOOR PLAN

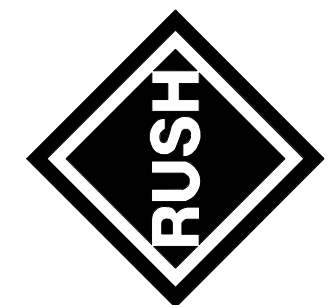
PLATE
REFERENCE
NUMBER
A101



PRODUCTION BUILDING FLOOR PLAN - WEST ZONE
SCALE: 1/8" = 1'-0"



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

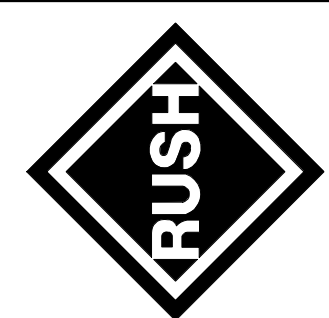


DATE	BY
03/15/2016	BVM
SYMBOL	DESCRIPTION
3	RESPONSE TO CITY OF TITUSVILLE COMMENTS

DESIGNED BY: TDG	DATE: 03/03/16
DWN BY: BVM	CRD BY: SEC
SUBMITTED BY: TDG	FILE NAME:
SIZE: D 22'x34'	PLOT SCALE: 03/03/16

EMBRAER EMBRAER AERO SEATING TECHNOLOGIES
TITUSVILLE, FL
PRODUCTION BUILDING - WEST ZONE ENLARGED PLAN

PLATE REFERENCE NUMBER
A101A

[illegible]

DESIGNED BY:		DATE
TDG		03/03/16
OWN BY:	SEC	
BWM	SEC	
SUBMITTED BY:		
TDG		
FILE NAME:		
SIZE: D	PLOT SCALE:	PLOT DATE:
22"x34"		03/03/16



EMBRAER

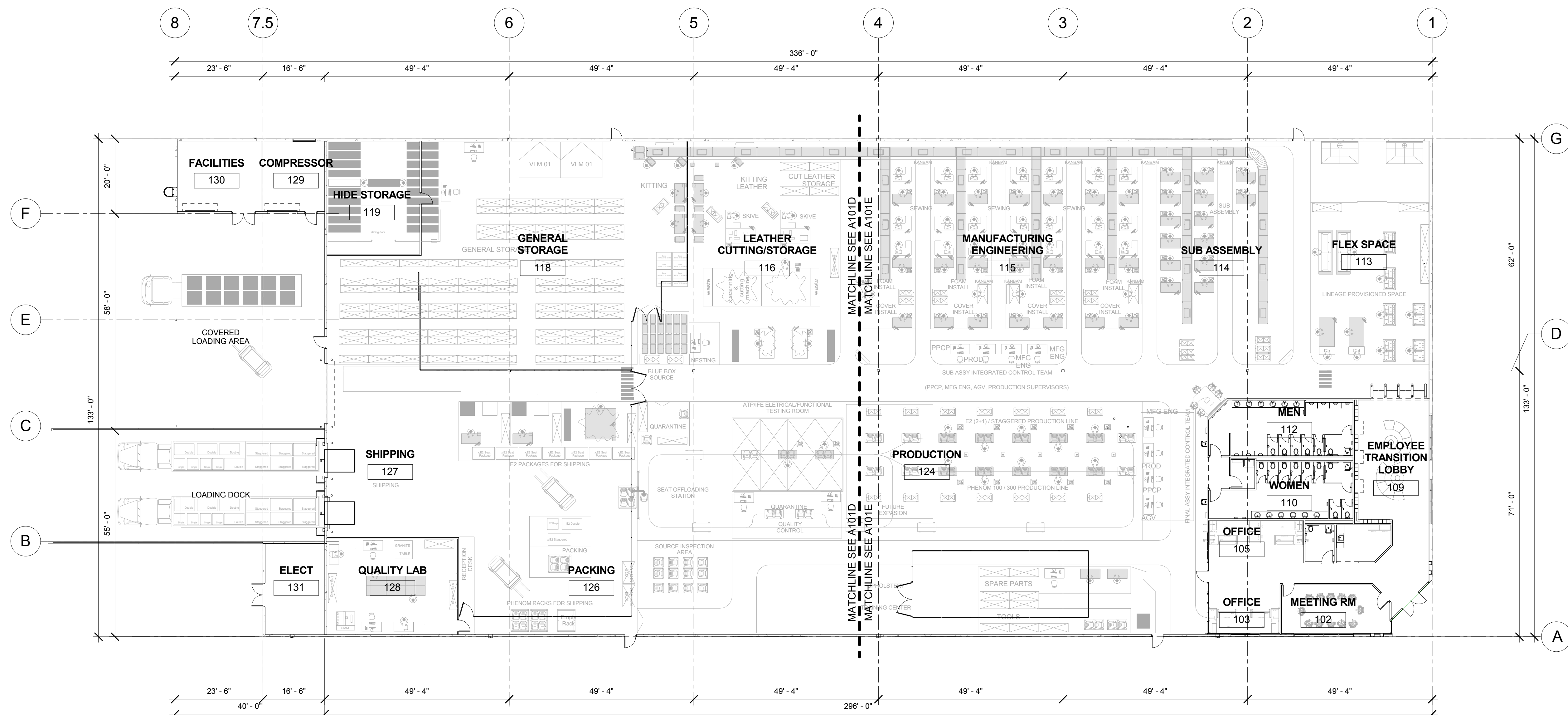
AERO SEATING
TECHNOLOGIES
TITUSSVILLE, FL

PRODUCTION BUILDING -

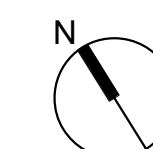
EAST ZONE ENLARGED

PLAN

PLATE
REFERENCE
NUMBER
A101B

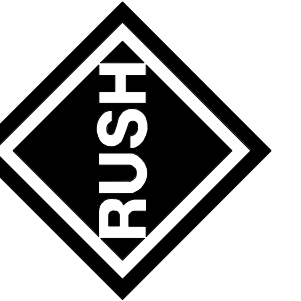


PRODUCTION BUILDING - EQUIPMENT PLAN FOR REFERENCE ONLY



0 8' 16' 32'
SCALE: 1/16"=1'-0"

NOTE:
EQUIPMENT N.I.C.; SHOWN FOR REFERENCE ONLY.
FURNITURE N.I.C.; SHOWN FOR REFERENCE ONLY.

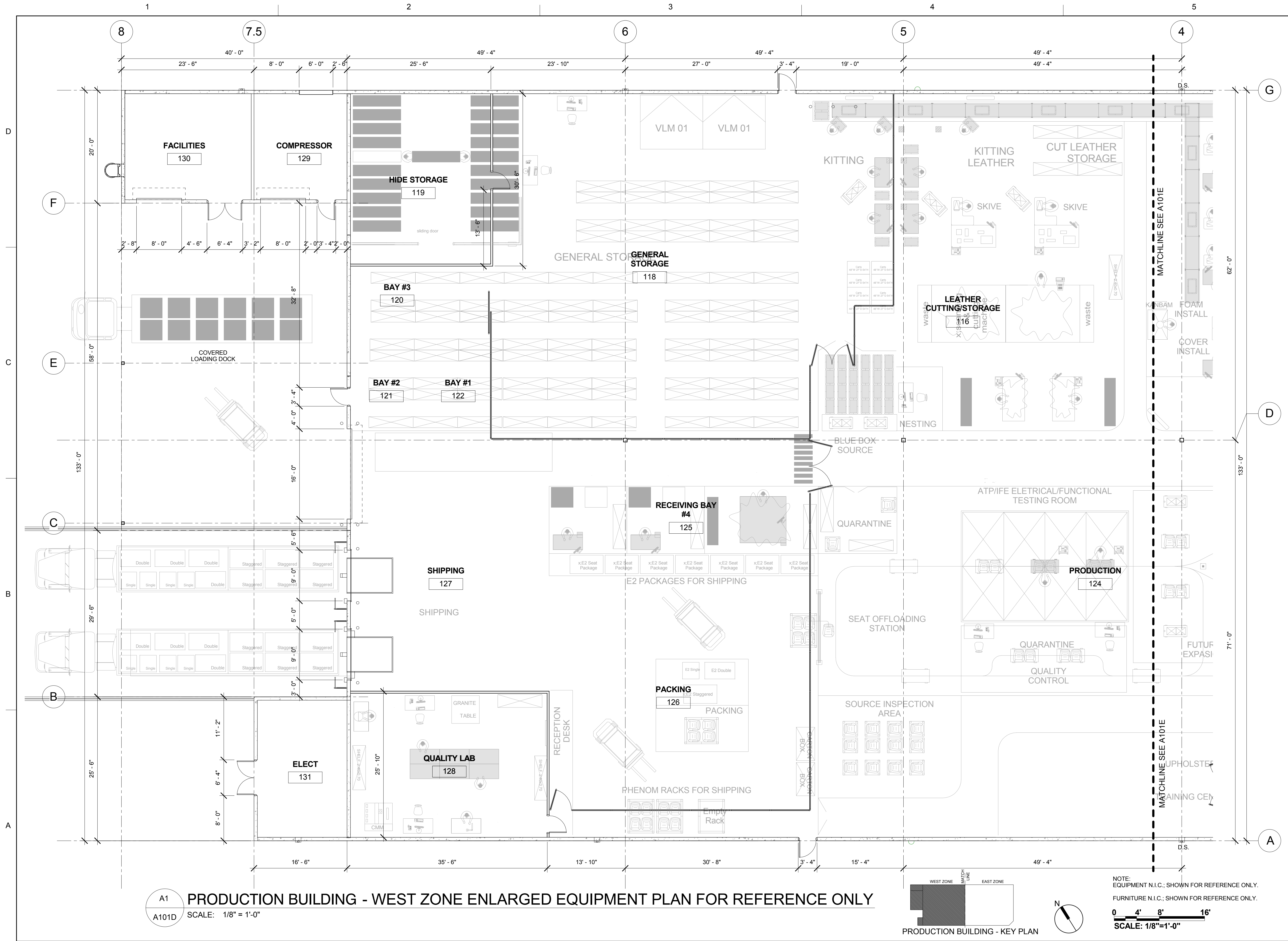
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TDG		CKD BY:		03/03/16	
SWM		SEC			
TDG		CKD BY:			
FILE NAME:		TDG			
SIZE: D		PLOT SCALE:		PLOT DATE:	
42" X 64"				03/03/16	

← EMBRAER
TECHNOLOGIES
TITUSVILLE, FL

**PRODUCTION BLDG -
EQUIPMENT PLAN**

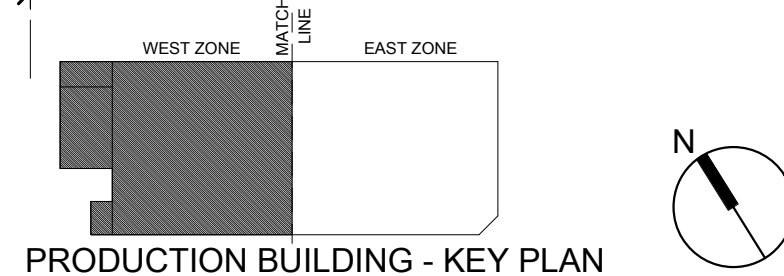
PLATE
REFERENCE
NUMBER
A101C



A1
A101D

PRODUCTION BUILDING - WEST ZONE ENLARGED EQUIPMENT PLAN FOR REFERENCE ONLY

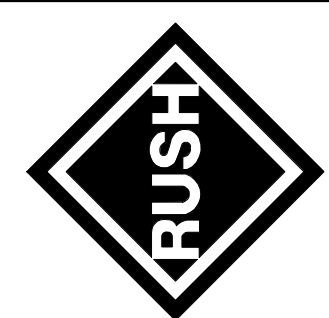
SCALE: 1/8" = 1'-0"



NOTE:
EQUIPMENT N.I.C.; SHOWN FOR REFERENCE ONLY.
FURNITURE N.I.C.; SHOWN FOR REFERENCE ONLY.

0 4' 8' 16'

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



DESIGNED BY:	DATE:	BY:
TDG	03/03/16	
DWN BY:	CRD BY:	SEC
BVM		
SUBMITTED BY:	FILE NAME:	DESCRIPTION
TDG		CONTRACT SET FOR CONSTRUCTION
SIZE: D	PLOT SCALE:	SYMBOL
22"x34"		2
DATE:	PLOT DATE:	BY
03/03/16	03/03/16	

RS&H

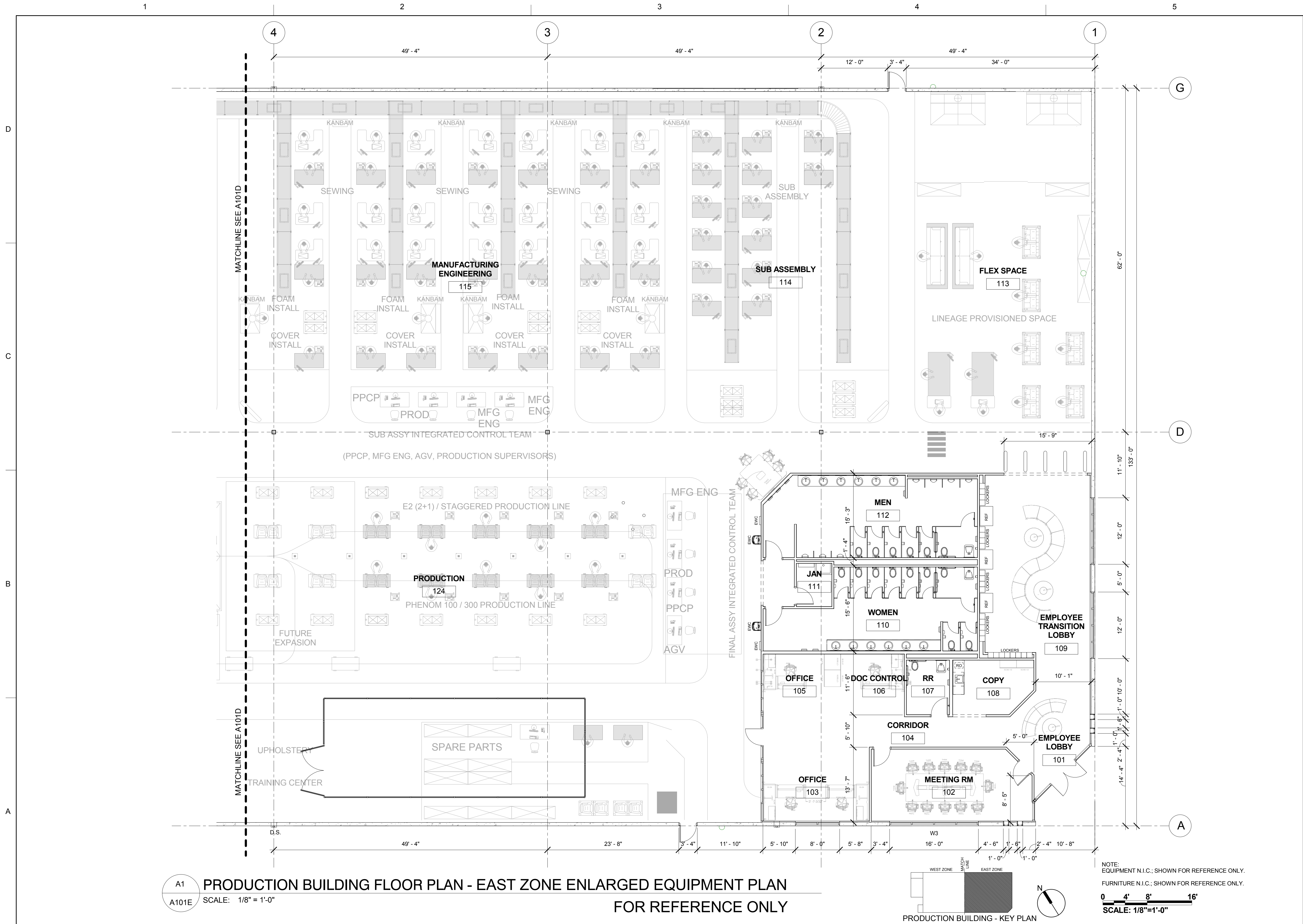
DESIGNED BY: TDG
DWN BY: BVM
SUBMITTED BY: TDG
FILE NAME: 115 ALMA BLVD, SUITE 101
MERRITT ISLAND, FL 32853
321-463-0212 www.rsandh.com

DATE: 03/03/16
PLOT DATE: 03/03/16
PLOT SCALE: 22"x34"

EMBRAER EMBAER AERO SEATING TECHNOLOGIES TITUSVILLE, FL

PRODUCTION BLDG - WEST ZONE ENLARGED EQUIPMENT PLAN

PLATE
REFERENCE
NUMBER
A101D



DATE: 03/03/16		BY: BVM	
DESIGNED BY: TDG		SYMBOL: 2	
DWN BY: BVM		DESCRIPTION: CONTRACT SET FOR CONSTRUCTION	
SUBMITTED BY: TDG		DATE: 03/03/16	
FILE NAME: 22X34"		PLOT DATE: 03/03/16	
PLOT SCALE: 1/8"=1'-0"		PLOT DATE: 03/03/16	



115 ALMA BLVD, SUITE 101
MERRITT ISLAND, FL 32853
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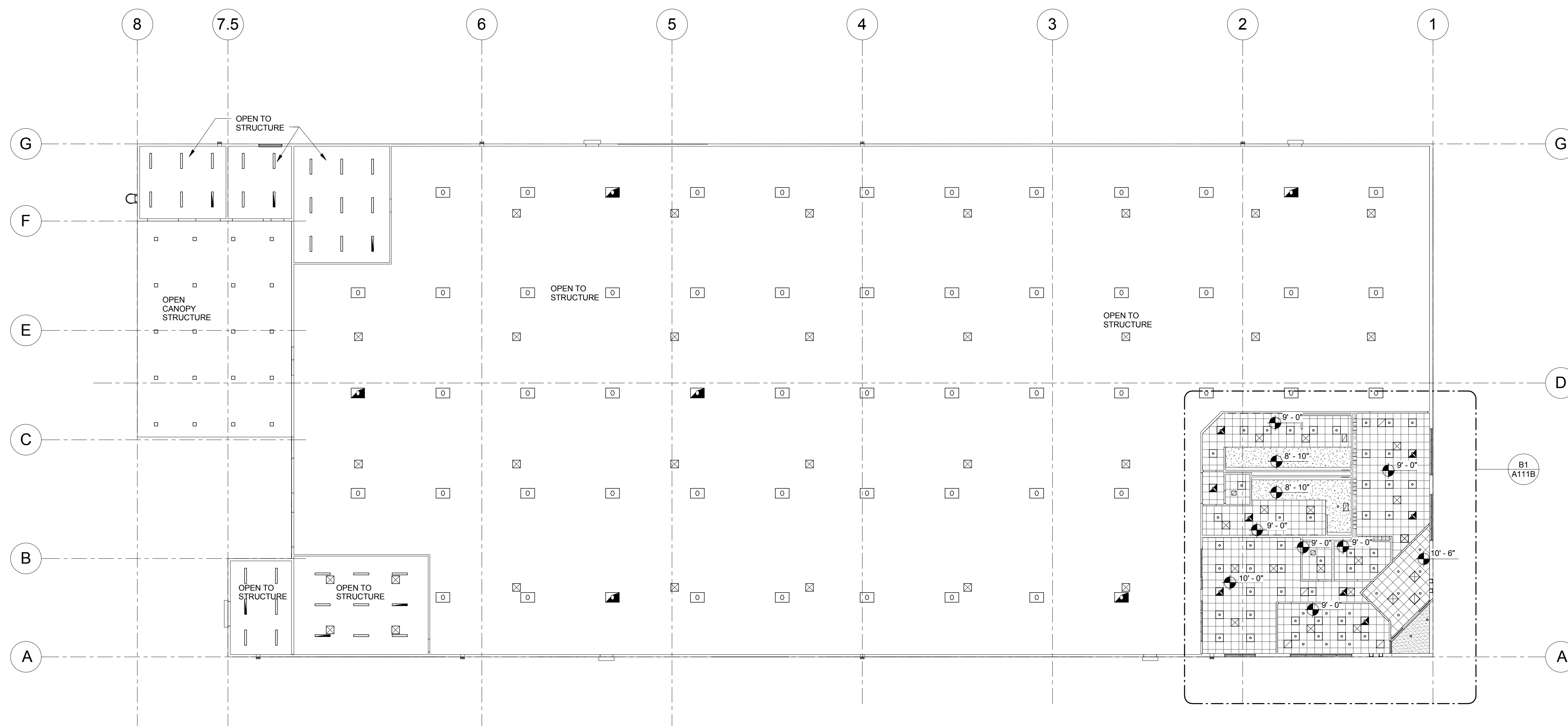
EMBRAER AERO SEATING
TECHNOLOGIES
TITUSVILLE, FL

PRODUCTION BLDG - EAST
ZONE ENLARGED
EQUIPMENT PLAN

PLATE
REFERENCE
NUMBER
A101E

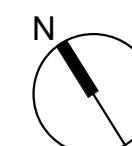
GENERAL NOTES

A. SEE SHEET A111B FOR CEILING PLAN LEGEND.

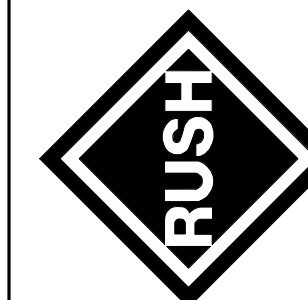


A1 PRODUCTION BUILDING REFLECTED CEILING PLAN
A111 SCALE: 1/16" = 1'-0"

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



0 8' 16' 32'
SCALE: 1/16"=1'-0"

[illegible]

DESIGNED BY:	TDG	DATE:	03/03/16
DRAWN BY:	BWM	CKD BY:	SEC
SUBMITTED BY:			
TDG			
FILE NAME:			
SIZE: D	PILOT SCALE:	PILOT DATE:	

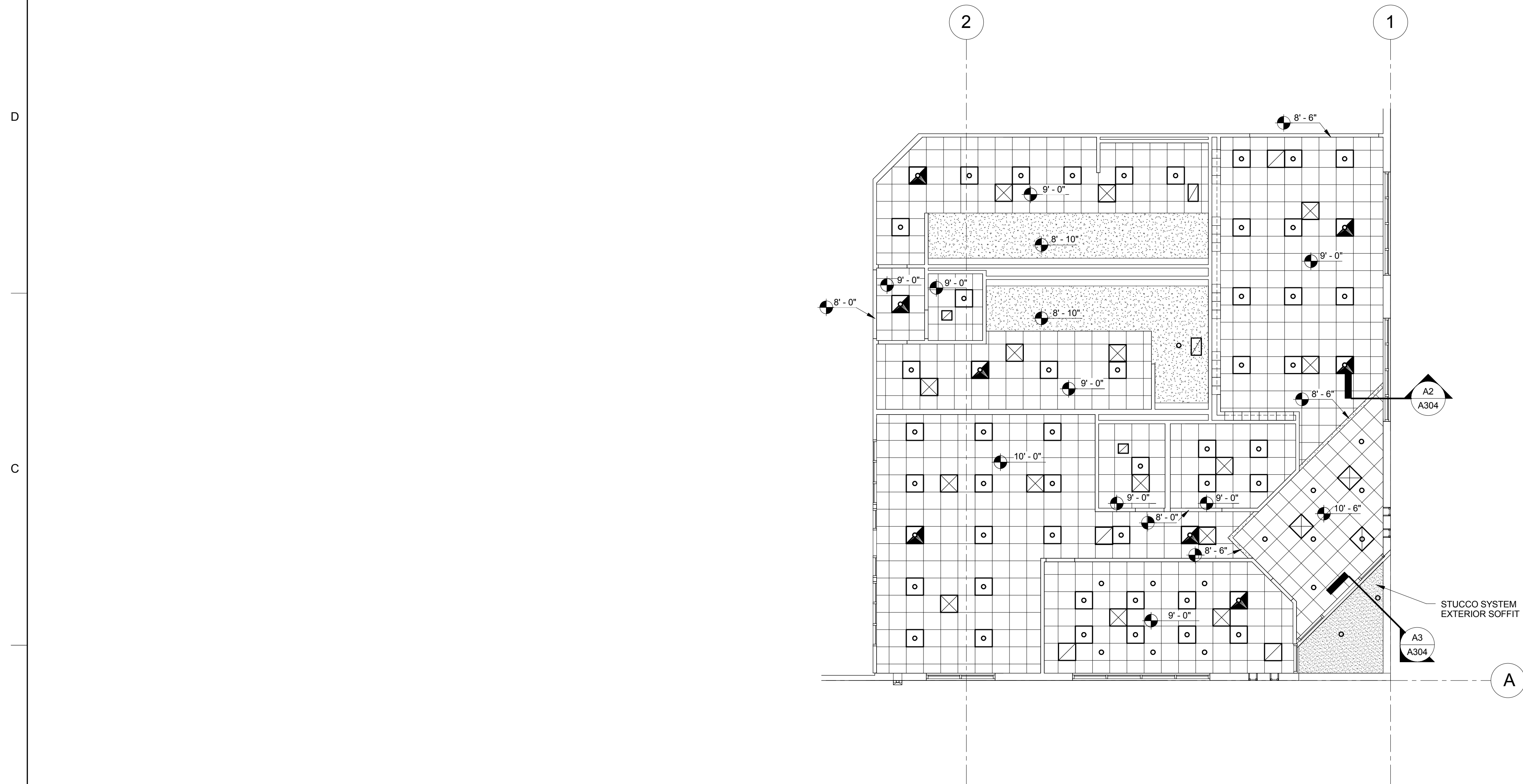
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MERRITT ISLAND, FL 32953

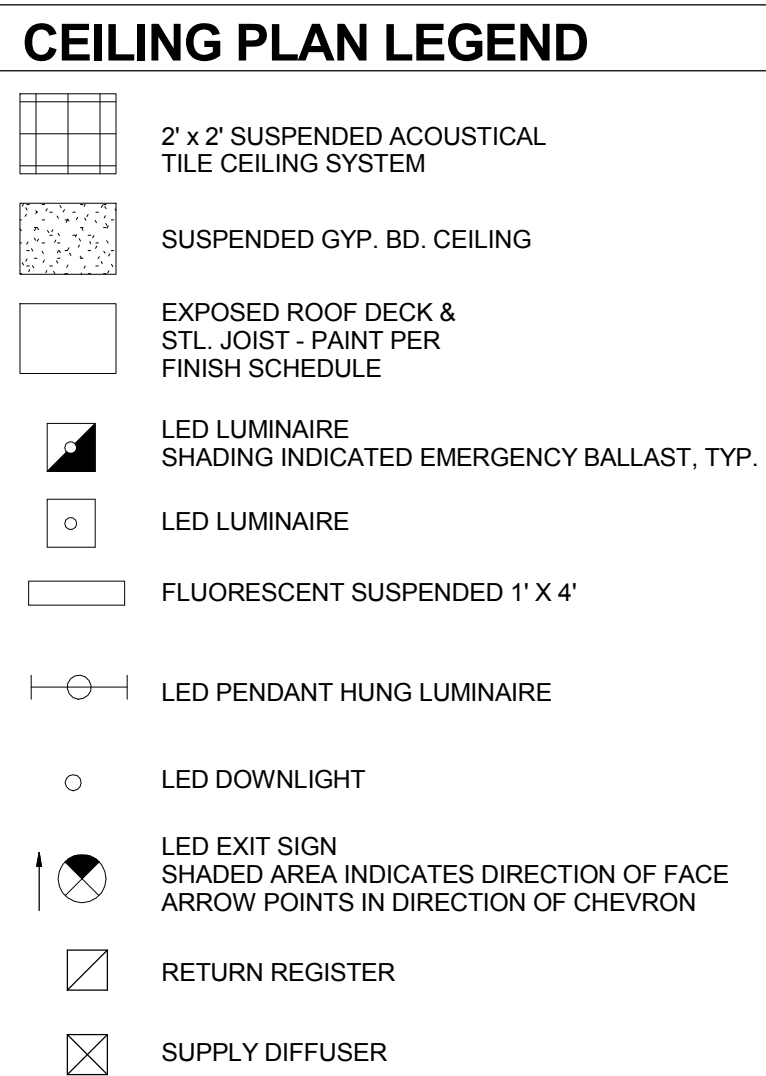
EMBRAER
EMBRAER AERO SEATING
TECHNOLOGIES
TITUSVILLE, FL

PRODUCTION BLDG -
REFLECTED CEILING PLAN

PLATE
REFERENCE
NUMBER
A111

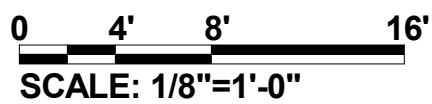


PRODUCTION BUILDING - EAST ZONE REFLECTED CEILING PLAN



GENERAL NOTES

A. SEE MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS TO DETERMINE QUANTITIES OF DIFFUSERS, GRILLES, LIGHT FIXTURES, ETC.

[illegible]

DESIGNED BY:	TDG		DATE:	03/03/16
DWN BY:	BVM	CKD BY:	SEC	
SUBMITTED BY:	TDG			
FILE NAME:				
SIZE: D	PLOT SCALE:	PLOT DATE:		
22"x34"		03/03/16		

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PRODUCTION BLDG - EAST

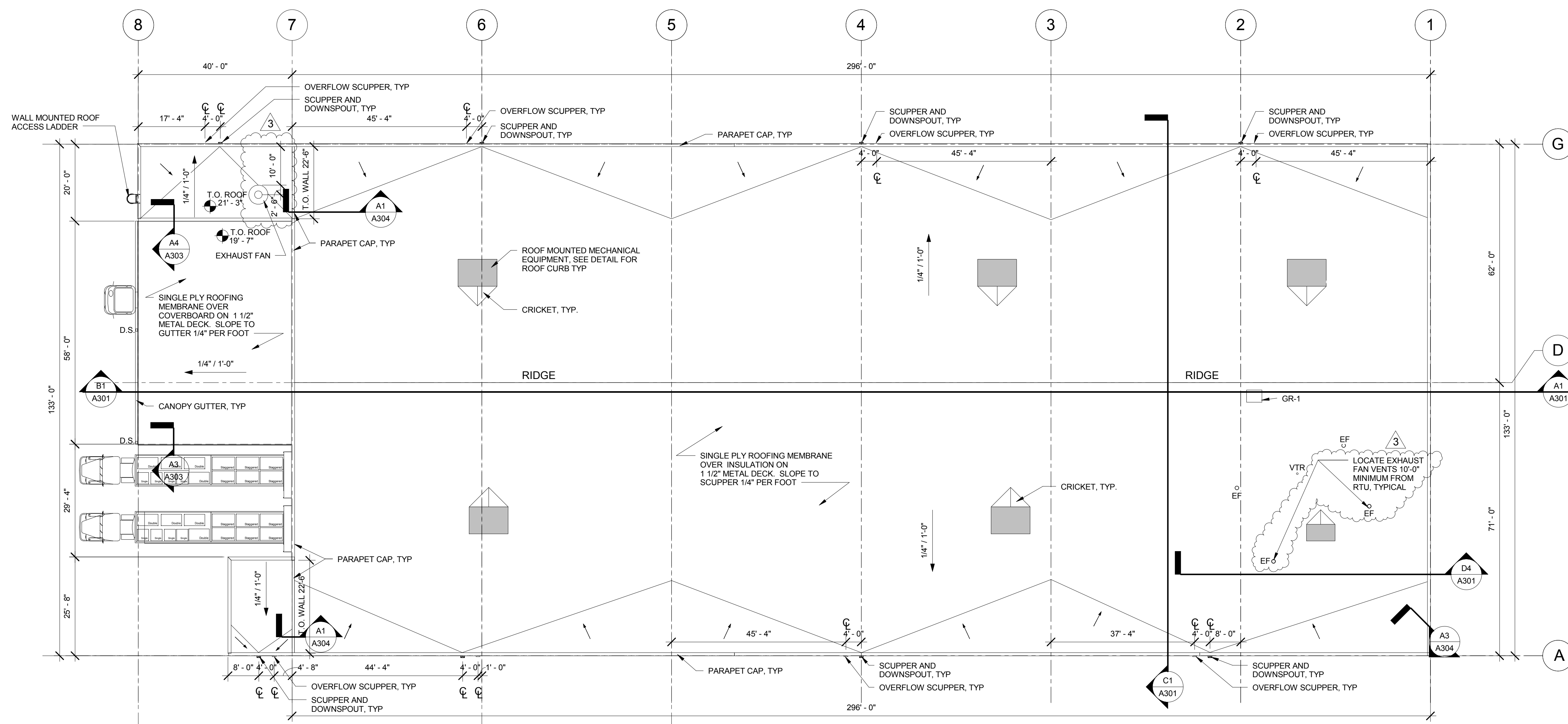
ZONE REFLECTED CEILING

PLAN

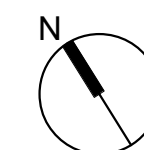
PLATE
REFERENCE
NUMBER
A111B

ROOFING GENERAL NOTES:

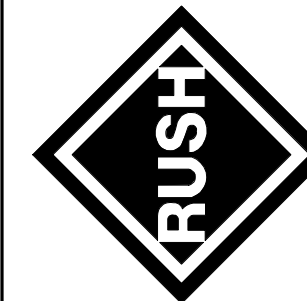
- A. SINGLE PLY ROOF SYSTEM (BUILDING ROOF) BASIS OF DESIGN: FIRESTONE ULTRAPLY 60 MIL, WHITE TPO MEMBRANE OVER 2 LAYERS OF 2" (4" TOTAL) ISO 95+ GL INSULATION ON 1 1/2" METAL DECK.
- B. SINGLE PLY ROOF SYSTEM (CANOPY ROOF) BASIS OF DESIGN: FIRESTONE ULTRAPLY 60 MIL, WHITE TPO MEMBRANE OVER COVERBOARD ON 1 1/2" ON METAL DECK.
- C. PREPARATION OF SUBSTRATE, APPLICATION, INSTALLATION, FASTENING AND STORAGE OF ROOFING MATERIALS PER FIRESTONE BUILDING PRODUCT PUBLISHED INSTALLATION INSTRUCTIONS AS APPROVED IN FLORIDA PRODUCT APPROVAL REPORT NUMBER FL10284-R9.
- D. PROVIDE SUBMITTALS FOR ROOF PLANS AND DETAILS INCLUDING FLASHING, DOWNSPOUTS, CONDUCTOR HEADS, DOWNSPOUT BOOTS AND COPING CAPS. PROVIDE A FIRESTONE STANDARD 20 YEAR WARRANTY TO BE ISSUED TO THE BUILDING OWNER UPON COMPLETION.
- E. FOR TYPICAL VENT THROUGH ROOF (VTR) SEE DETAIL B3/A-601.
- F. FOR TYPICAL EQUIPMENT CURB SEE DETAIL B5/A-601.
- G. AS A MINIMUM, ROOF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NRCA ROOFING AND WATERPROOFING MANUAL, 5TH EDITION, AND THE SMACNA ARCHITECTED SHEET METAL MANUAL, 6TH EDITION. ALL REQUIRED FLASHING IS TO BE PER MANUFACTURER'S AND SMACNA RECOMMENDATIONS. MINIMUM PROVIDE .050 KYNAR ALUMINUM COPING CAP, SHEET FLASHING (.032) DOWNSPOUTS(.050) GUTTERS AND CONDUCTOR HEADS (.063)
- H. PROVIDE STEEL WALK MOUNTED ROOF ACCESS LADDER WITH HOT DIPPED GALVANIZED COATING AT EACH BUILDING. FIXED LADDER WITH WALK-THRU HANDRAIL, SAFETY CAGE AND SECURITY LADDER GUARD INSTALLED AND DESIGNED IN COMPLIANCE WITH OSHA STANDARD 1910.27.
- I. SEE S101 AND S102 FOR STRUCTURAL LOAD INFORMATION.
- K. PROVIDE POSITIVE DRAINAGE TO ALL SCUPPERS. PROVIDE CRICKETS AT ALL EQUIPMENT LOCATIONS TO AVOID PONDING.



A1 PRODUCTION BUILDING ROOF PLAN



0 8' 16' 32'
SCALE: 1/16"=1'-0"



3	RESPONSE TO CITY OF TITUSVILLE COMMENTS	03/19/2016	BVM
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RS&H		DESIGNED BY:	TDG	DATE:	03/03/16
		CHK BY:	BVM		
		SUBMITTED BY:	TDG		
		FILE NAME:			
SIZE D:	PLOT SCALE:			PLOT DATE:	



EMBRAER

EMBRAER AERO SEATING

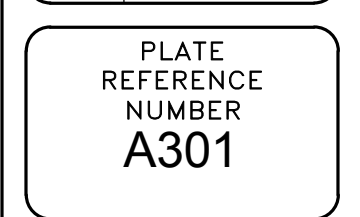
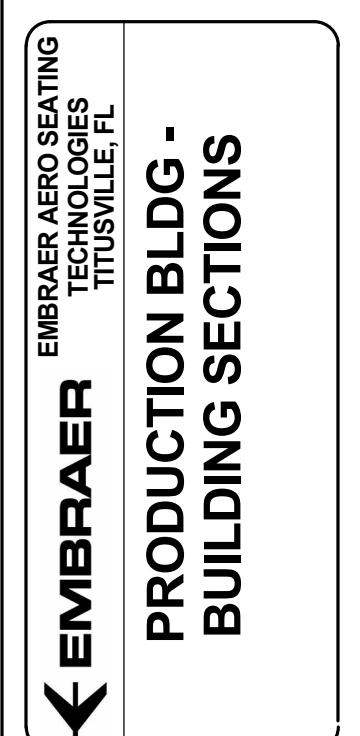
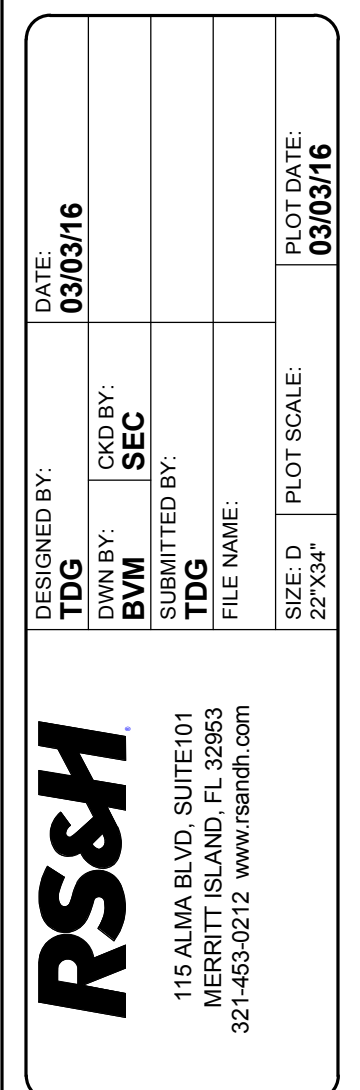
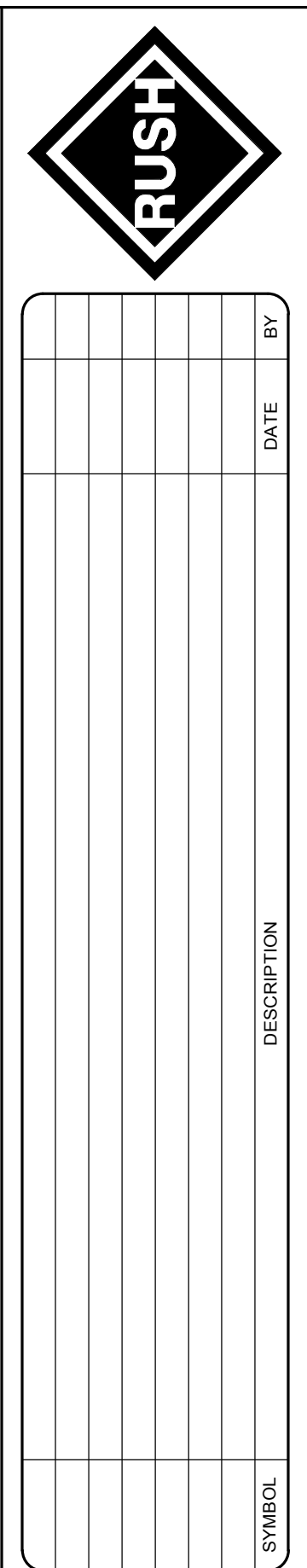
TECHNOLOGIES

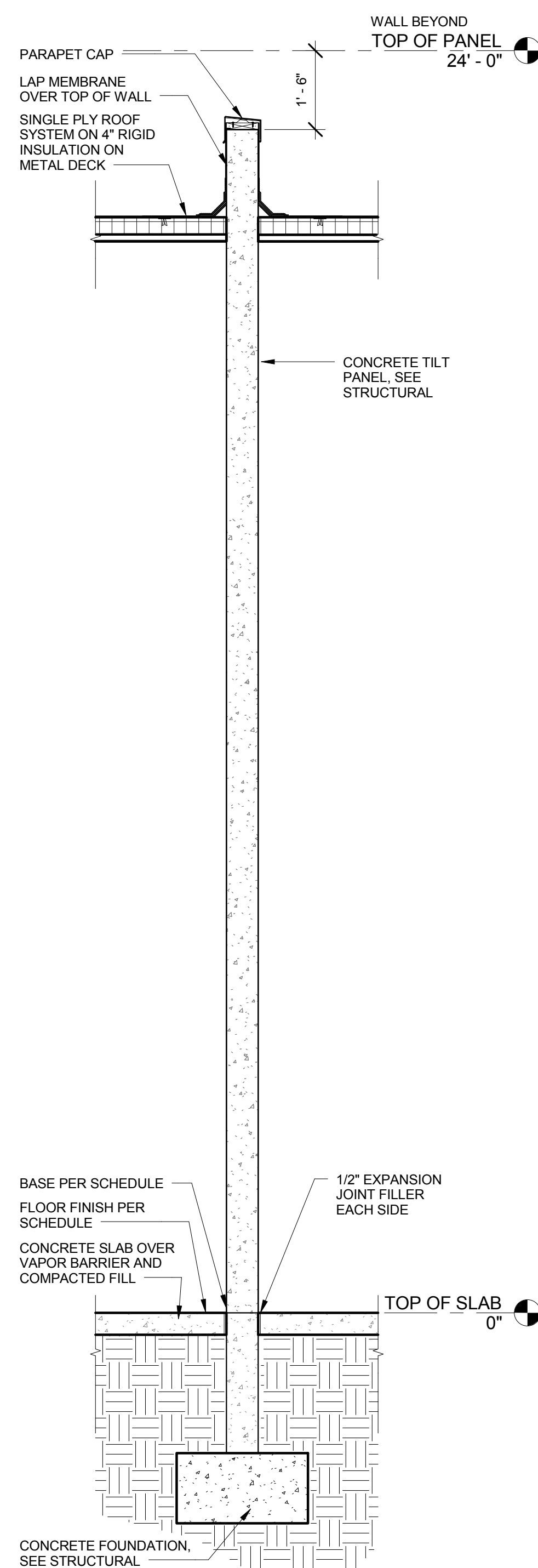
TITUSVILLE, FL

PRODUCTION BLDG - ROOF

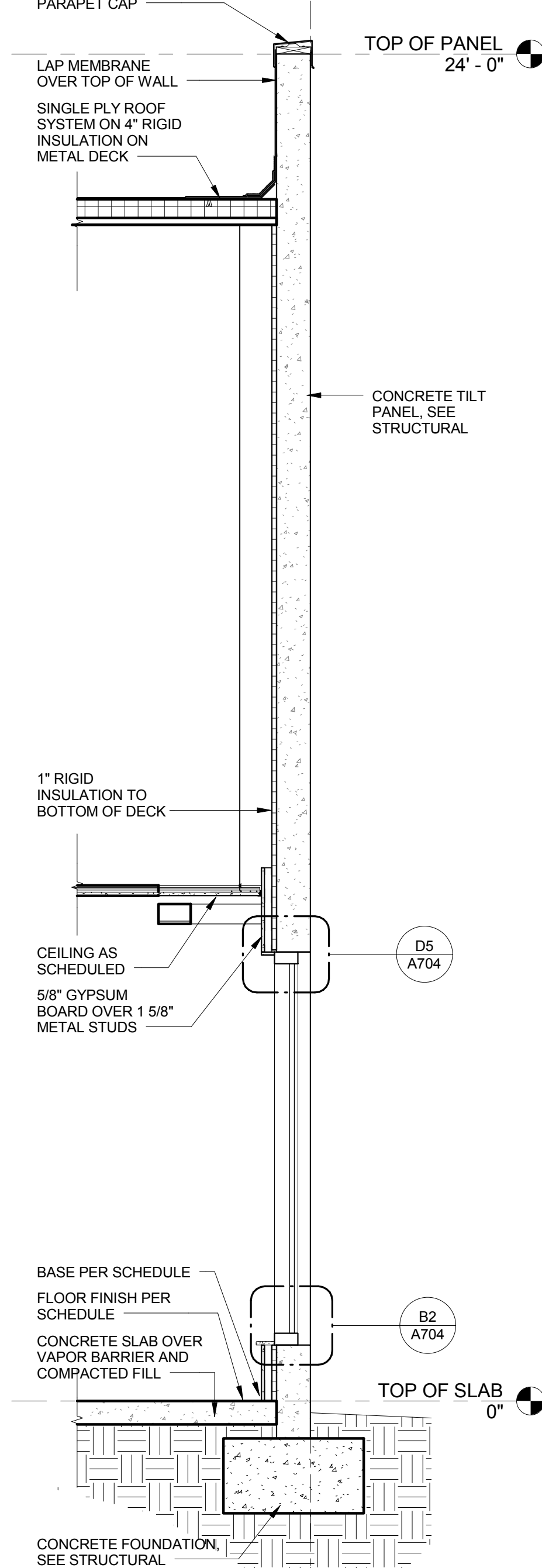
PLAN

PLATE
REFERENCE
NUMBER
A121

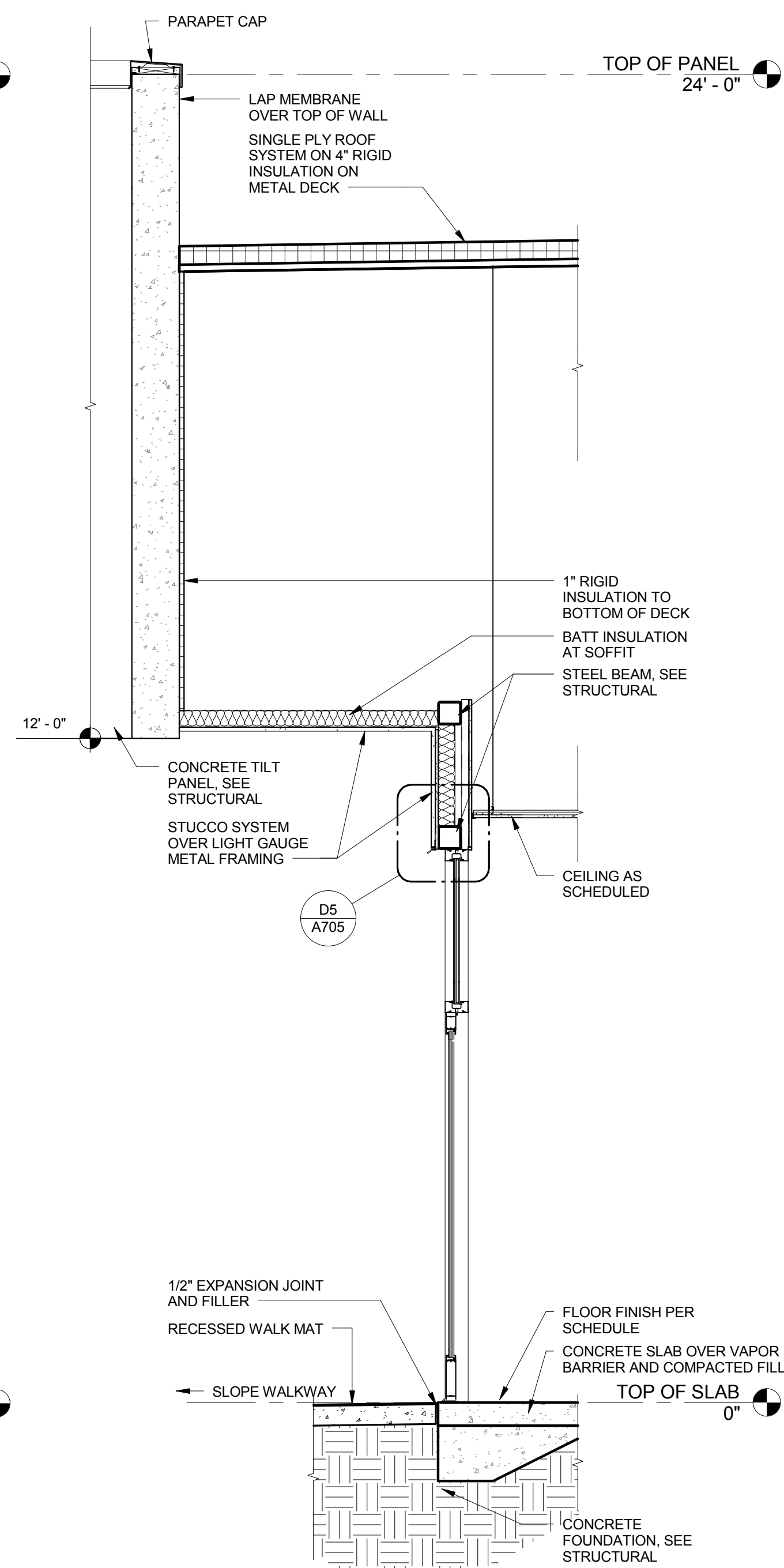




A1 WALL SECTION
A304 SCALE: 1/2" = 1'-0"



A2 WALL SECTION
A304 SCALE: 1/2" = 1'-0"



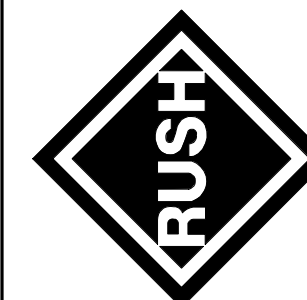
A3
A304

GENERAL NOTES

- A. SEE SHEET A501 FOR PARTITION TYPES.
- B. SEE SHEET A701 FOR DOOR AND WINDOW SCHEDULE.
- C. SEE SHEET A405 FOR ROOM FINISH SCHEDULE AND FINISH LEGEND.
- D. ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF TILT PANEL.

STUCCO SYSTEM

PROVIDE SELF FURRING METAL LATH ON 2 LAYERS BUILDING PAPER AND NON-WOOD GLASS MAT SHEATHING. FASTEN LATH EVERY 6 INCHES; AND WHERE SHEETS OF LATH ARE LAPPED, PROVIDE 3 COAT STUCCO SYSTEM. SCRATCH & BROWN COAT TO 3/4" TO 7/8" AND FINISH CEMENT COAT. PROVIDE A SMOOTH TROWEL FINISH, PAINT PER FINISH LEGEND. PROVIDE FLEXIBLE EXPANSION EDGE AT TERMINATION OF STUCCO TO ADJACENT SURFACE.

[illegible]

DESIGNED BY:	DATE:	
TDG	03/03/16	
DWN BY:	CKD BY:	
BVM	SEC	
SUBMITTED BY:		
TDG		
FILE NAME:		
SIZE: D	PLOT SCALE:	PLOT DATE:

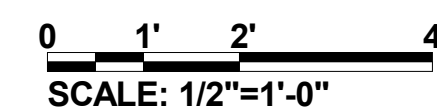


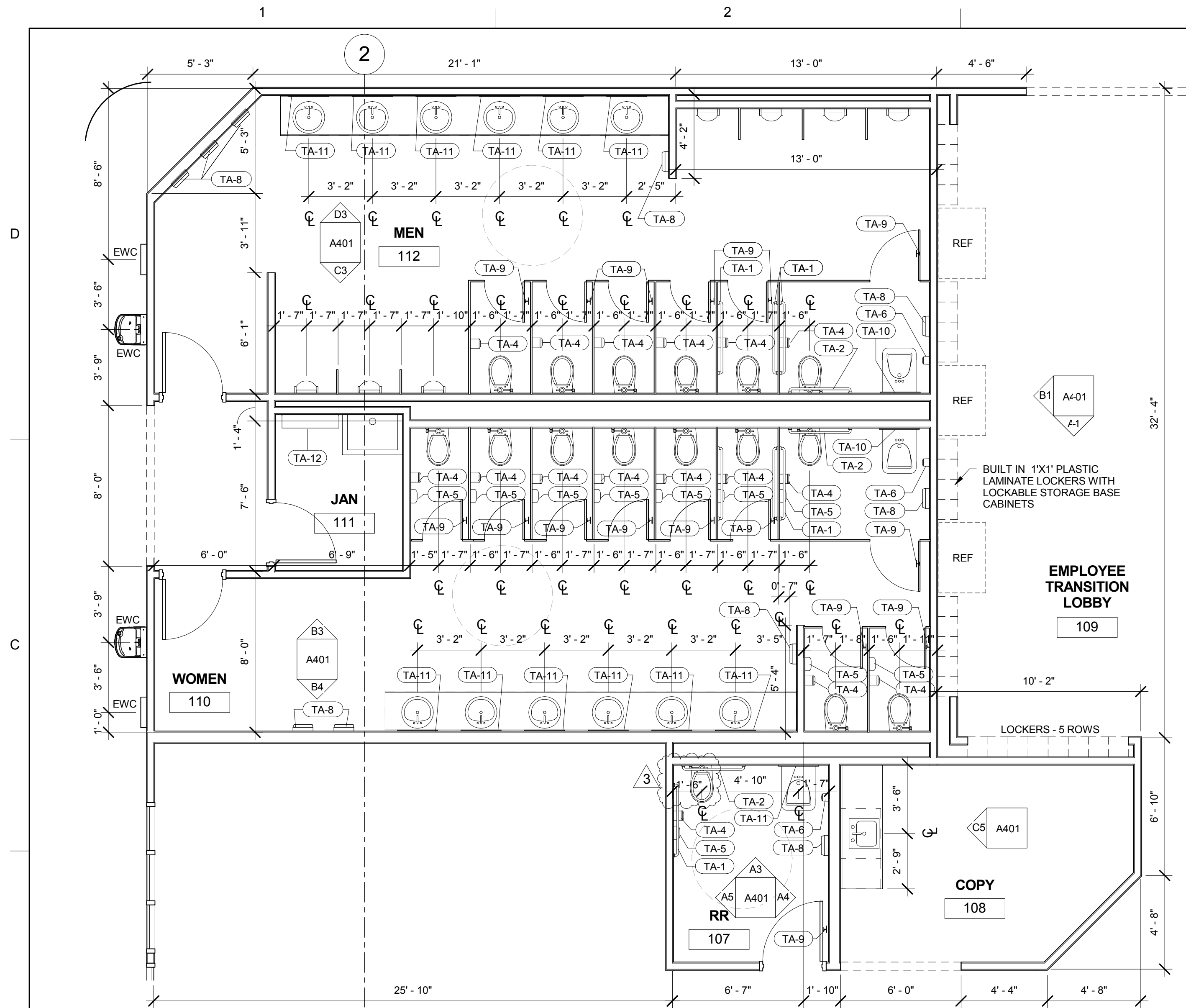
115 ALMA BLVD, SUITE101
MERRITT ISLAND, FL 32953
321-453-0212 www.rsandh.com

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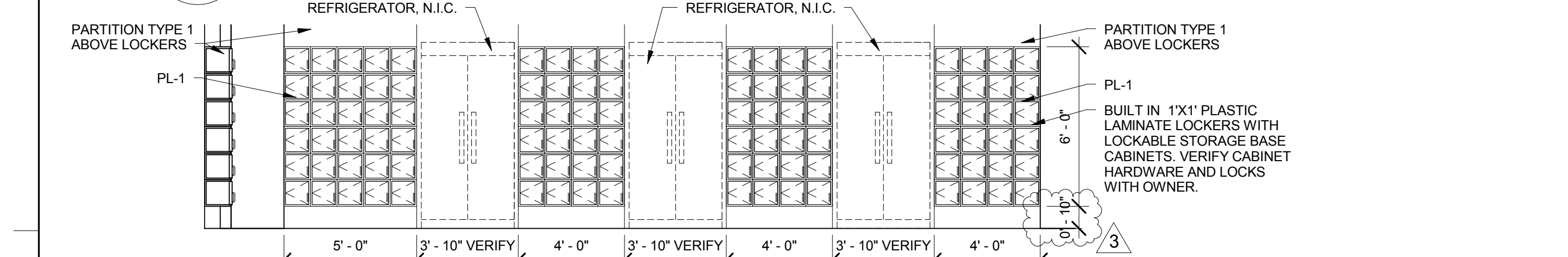
PRODUCTION BLDG - WALL SECTIONS

PLATE
REFERENCE
NUMBER
A304

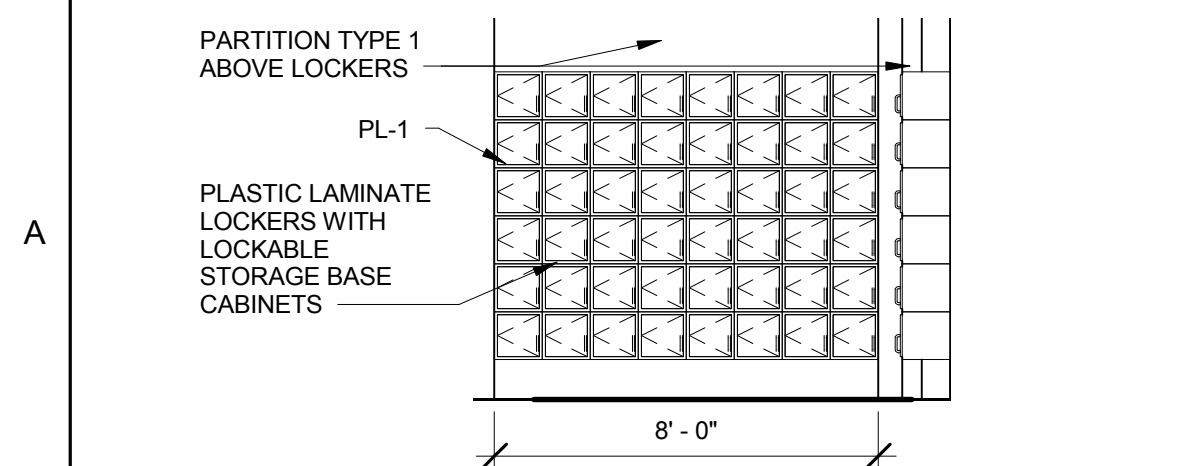




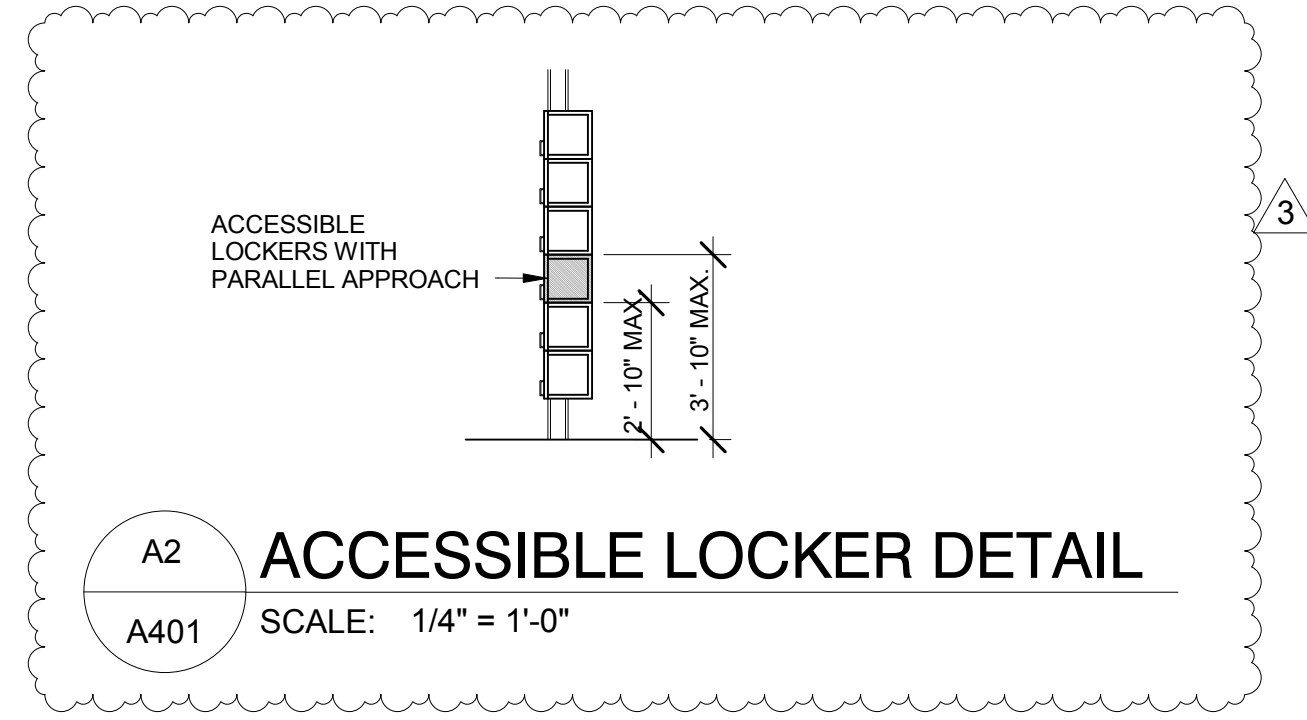
C1 ENLARGED FLOOR PLAN - PRODUCTION BUILDING
A401 SCALE: 1/4" = 1'-0"



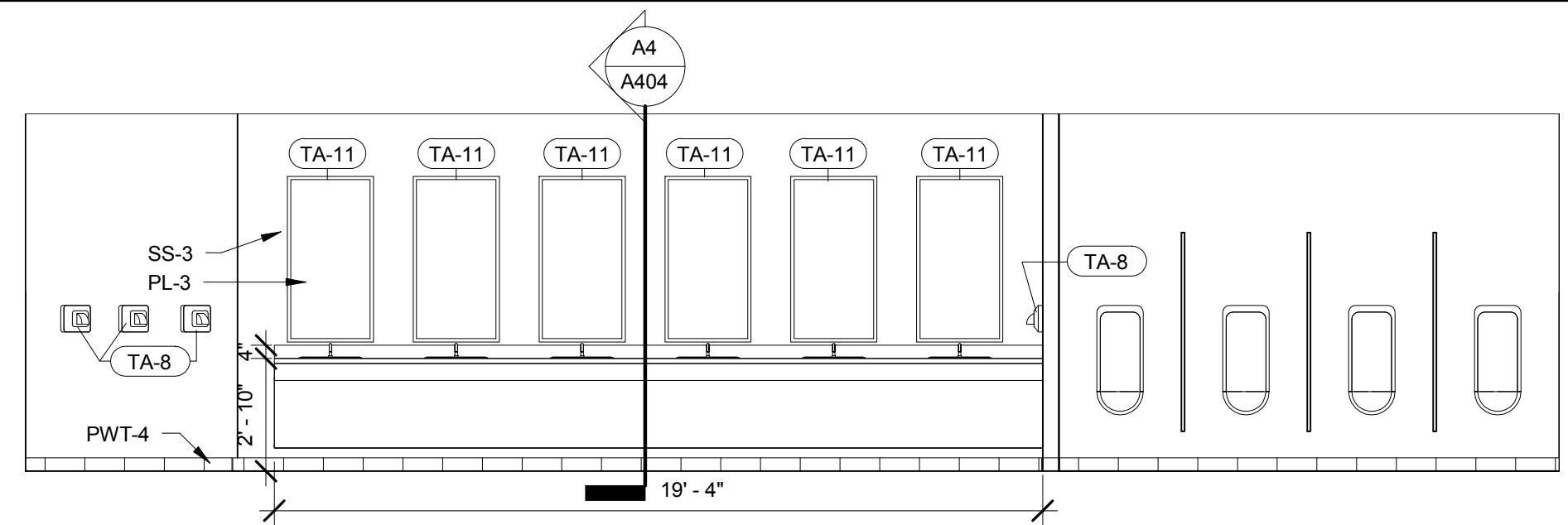
B1 LOCKER ELEVATION
A401 SCALE: 1/4" = 1'-0"



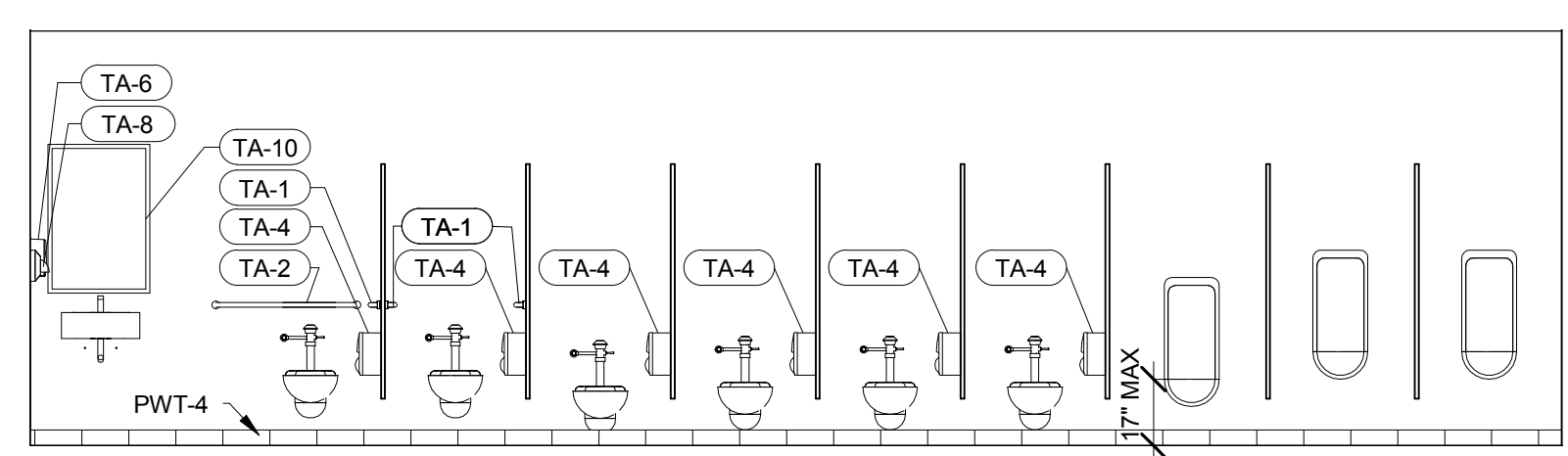
A1 LOCKER ELEV.
A401 SCALE: 1/4" = 1'-0"



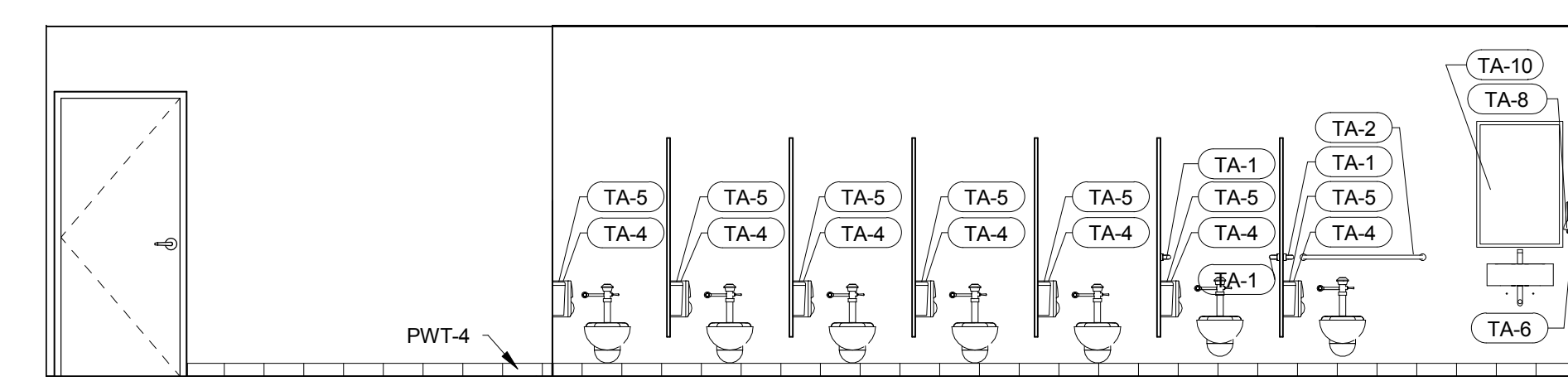
A2 ACCESSIBLE LOCKER DETAIL
A401 SCALE: 1/4" = 1'-0"



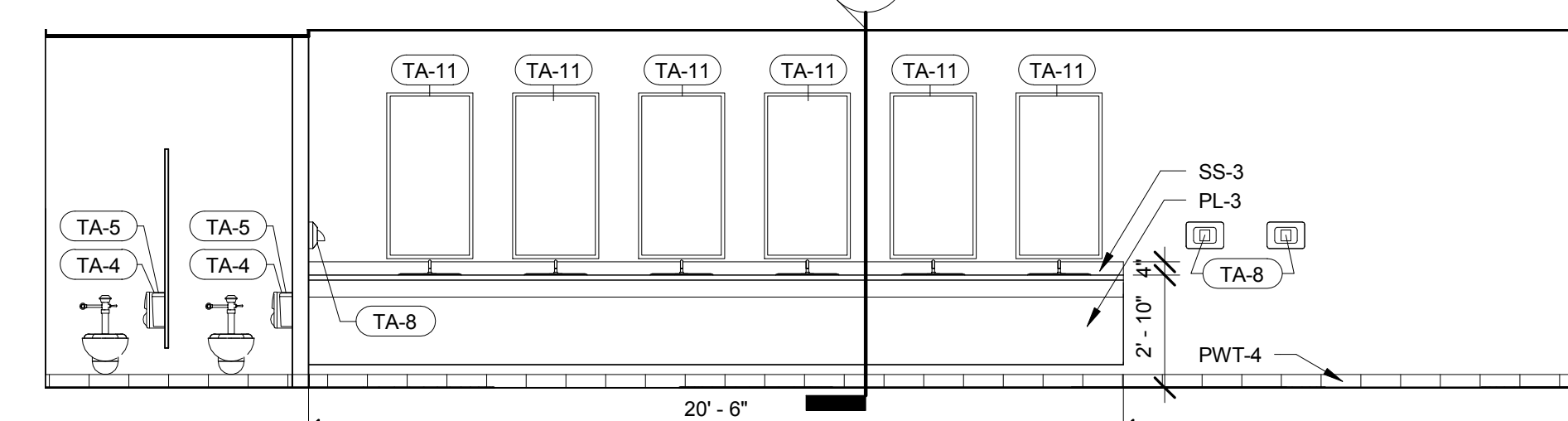
D3 RESTROOM ELEVATION
A401 SCALE: 1/4" = 1'-0"



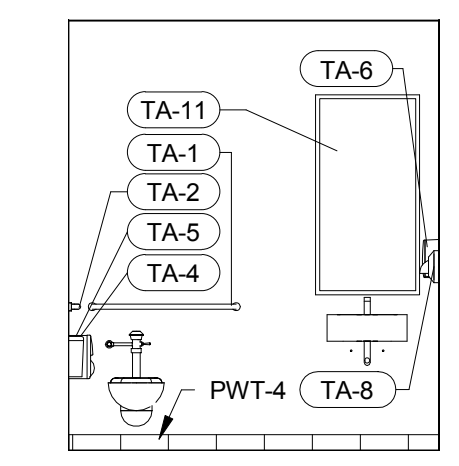
C3 RESTROOM ELEVATION
A401 SCALE: 1/4" = 1'-0"



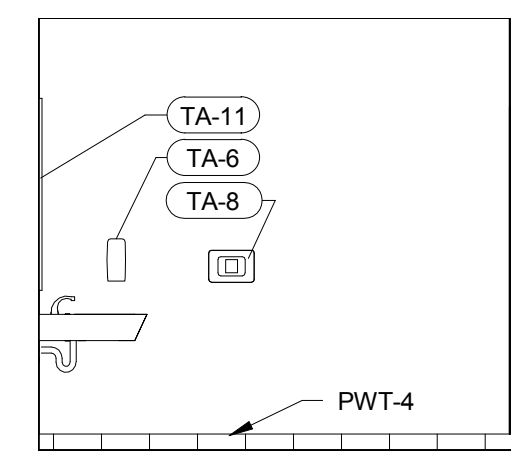
B3 RESTROOM ELEVATION
A401 SCALE: 1/4" = 1'-0"



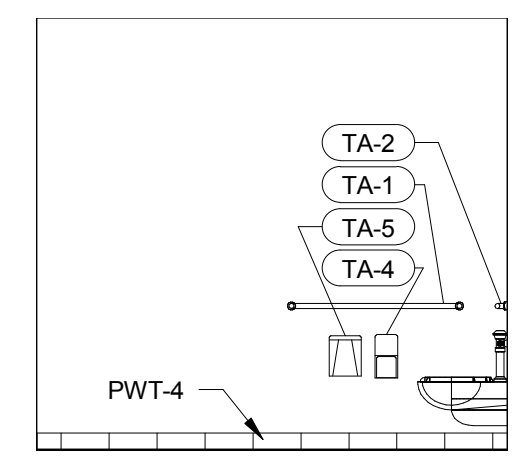
B4 RESTROOM ELEVATION
A401 SCALE: 1/4" = 1'-0"



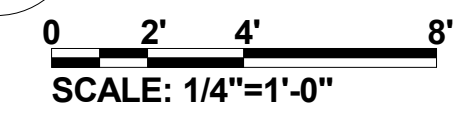
A3 RR ELEVATION
A401 SCALE: 1/4" = 1'-0"



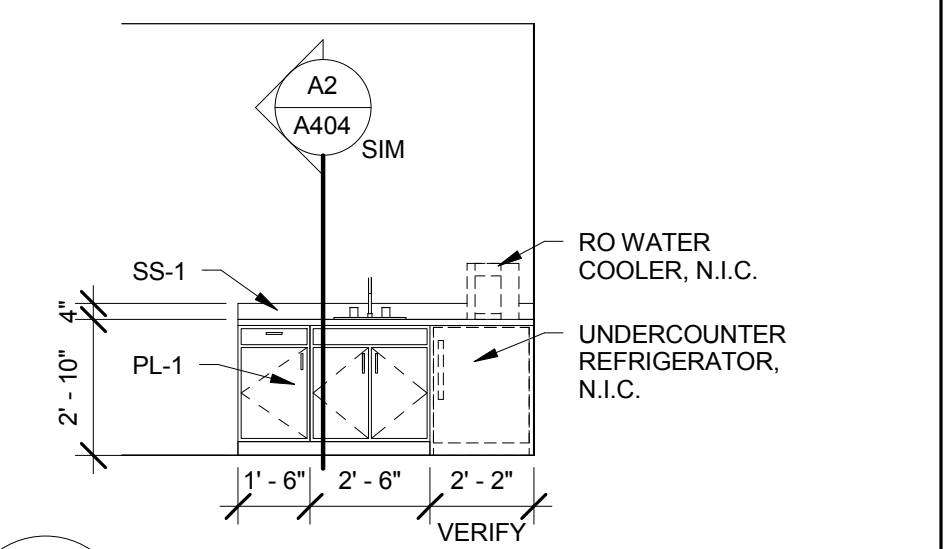
A4 RR ELEVATION
A401 SCALE: 1/4" = 1'-0"



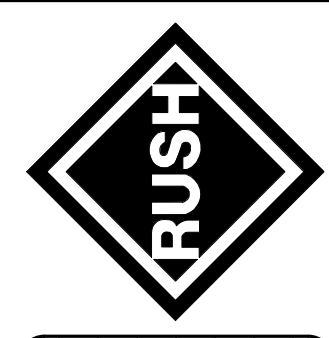
A5 RR ELEVATION
A401 SCALE: 1/4" = 1'-0"



- GENERAL NOTES**
- A. SEE SHEET A501 FOR PARTITION TYPES.
 - B. SEE SHEET A404 FOR RESTROOM ACCESSORY SCHEDULE AND ACCESSORY AND FIXTURE MOUNTING HEIGHTS.
 - C. ALL TOILET PARTITIONS AND URINAL SCREENS ARE TYPE TP-1 TYPICAL.
 - D. SEE SHEET A405/A406 FOR ROOM FINISH SCHEDULE AND FINISH LEGEND.
 - E. ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF TILT PANEL UNLESS OTHERWISE NOTED.
 - F. PROVIDE 4" SIDE AND BACKSPLASHES TO MATCH COUNTERTOPS ON ALL COUNTERTOPS ADJACENT TO WALLS.
 - G. WRAP ALL EXPOSED PIPES UNDER LAVATORIES IN ACCORDANCE WITH ADA STANDARDS.
 - H. CONFIRM WITH OWNER LOCATIONS OF TRASH/RECYCLE CANS WITHIN MILLWORK. PROVIDE OPENING IN COUNTERTOP CENTERED ABOVE THE CAN. TOE KICK TO SWING OUT WITH BASE CABINET DOOR AT LOCATIONS OF TRASH/RECYCLE CANS. CONFIRM ALL LOCATIONS AND CAN SIZES WITH OWNER.



C5 COPY ROOM ELEVATION
A401 SCALE: 1/4" = 1'-0"



DATE	BY	SYMBOL	DESCRIPTION
03/15/2016	BVM		RESPONSE TO CITY OF TITUSVILLE COMMENTS
		3	

DESIGNED BY: TDG	CHECKED BY: SEC	DATE: 03/03/16
DRAWN BY: BVM	SUBMITTED BY: TDG	
FILE NAME: 115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 321-463-0212 www.rsandh.com		PLOT DATE: 03/03/16
SIZE: D 22"x34"		PLOT SCALE: 1/4" = 1'-0"



PLATE REFERENCE NUMBER A401



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



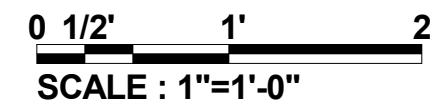
A404 SCALE: 1" = 1'-0"

A404 SCALE: 1" = 1'-0"



A404 SCALE: 1" = 1'-0"

1. HINDICAP ACCESSIBILITY IN ACCORDANCE WITH ADA STANDARDS.
2. INSULATE EXPOSED HOT WATER SUPPLY AND DRAIN PIPES PER ABA AND ADA REQUIREMENTS.
3. ACCESSORIES ARE CONTRACTOR FURNISHED CONTRACTOR INSTALLED (CFCI) UNLESS OTHERWISE NOTED
4. PROVIDE BLOCKING IN WALLS FOR ACCESSORIES.
5. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR TOILET ACCESSORIES PRODUCT REQUIREMENTS
6. SEE SHEET A404 FOR TYPICAL MOUNTING HEIGHTS.
7. SEE PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PLUMBING FIXTURES.
8. ALL DIMENSIONS ON THIS SHEET ARE TO FACE OF FINISH.



ROOM FINISH SCHEDULE - PRODUCTION BUILDING											
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	CEILING HEIGHT	COMMENTS	
				NORTH	SOUTH	EAST	WEST				
101	EMPLOYEE LOBBY	CPT 3, 5, 6, 7	RB-2	P-1	P-1	P-1	P-1	GYP-1, ACT-2	VARIES	PROVIDE 3-1/2" SOUND ATTENUATION BATTS ABOVE ACT	
102	MEETING RM	CPT 3, 5, 6	RB-2	WC-2	P-1	P-1	P-1	ACT-2			
103	OFFICE	CPT 3, 5, 6	RB-2	P-1	P-1	P-1	P-1	ACT-1			
104	CORRIDOR	CPT 3, 5, 6	RB-2	P-1	P-1	P-1	P-1	ACT-1			
105	OFFICE	CPT	RB-2	P-1	P-1	P-1	P-1	ACT-1			
106	DOC CONTROL	CPT 3, 5, 6	RB-2	P-1	P-1	P-1	P-1	ACT-1			
107	RR	PT-4	PWT-4	P-2	P-2	P-2	P-2	ACT-3			
108	COPY	CPT 3, 5, 6	RB-2	P-1	P-1	P-1	P-1	ACT-1			
109	EMPLOYEE TRANSITION LOBBY	CPT 3, 5, 6	RB-2	P-1	P-1	P-1	P-1	GYP-1, ACT-2			
110	WOMEN	PT-4	PWT-4	P-2	P-2	P-2	P-2	GYP-1, ACT-3			
111	JAN	PT-4	PWT-4	P-2	P-2	P-2	P-2	ACT-3			
112	MEN	PT-4	PWT-4	P-2	P-2	P-2	P-2	GYP-1, ACT-3			
113	FLEX SPACE	SC	RB-2	P-1	P-1	P-1	-	PAINT	EXPOSED STRUCTURE		
114	SUB ASSEMBLY	SC	RB-2	P-1	-	-	-	PAINT	EXPOSED STRUCTURE		
115	MANUFACTURING ENGINEERING	SC	RB-2	P-1	-	-	-	PAINT	EXPOSED STRUCTURE		
116	LEATHER CUTTING/STORAGE	SC	RB-2	P-1	-	-	-	PAINT	EXPOSED STRUCTURE		
117	BLUE BOX	SC	-	-	-	-	-	PAINT	EXPOSED STRUCTURE		
118	GENERAL STORAGE	SC	RB-2	P-1	-	-	P-1	PAINT	EXPOSED STRUCTURE		
119	HIDE STORAGE	SC	RB-2	P-1	P-1	P-1	P-1	PAINT	EXPOSED STRUCTURE		
120	BAY #3	SC	RB-2	P-1	-	-	P-1	PAINT	EXPOSED STRUCTURE		
121	BAY #2	SC	RB-2	-	-	-	P-1	PAINT	EXPOSED STRUCTURE		
122	BAY #1	SC	-	-	-	-	-	PAINT	EXPOSED STRUCTURE		
124	PRODUCTION	SC	RB-2	-	P-1	P-1	-	PAINT	EXPOSED STRUCTURE		
125	RECEIVING BAY #4	SC	-	-	-	-	-	PAINT	EXPOSED STRUCTURE		
126	PACKING	SC	RB-1	-	P-1	-	P-1	PAINT	EXPOSED STRUCTURE		
127	SHIPPING	SC	RB-1	P-1	P-1	-	P-1	PAINT	EXPOSED STRUCTURE		
128	QUALITY LAB	SC	RB-1	P-1	P-1	P-1	P-1	PAINT	EXPOSED STRUCTURE		
129	COMPRESSOR	SC	RB-1	P-1	P-1	P-1	P-1	PAINT	EXPOSED STRUCTURE		
130	FACILITIES	SC	RB-1	P-1	P-1	P-1	P-1	PAINT	EXPOSED STRUCTURE		
131	ELECT	SC	RB-1	P-1	P-1	P-1	P-1	PAINT	EXPOSED STRUCTURE		

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
CPT	CARPET TILE
GYP	GYPSUM BOARD CEILING
P	PAINT
PL	PLASTIC LAMINATE
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
PWT	PORCELAIN WALL TILE
QT	QUARRY TILE
QTB	QUARRY TILE BASE
RB	RUBBER BASE
SC	SEALED CONCRETE
SS	SOLID SURFACE
TS	FLOORING TRANSITION STRIP
VCT	VINYL COMPOSITE TILE
WC	WALL COVERING

GENERAL NOTES

A. INSTALL ALL MATERIALS/PRODUCTS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

B. INSTALL MANUFACTURER'S TRIM/ACCESSORY PIECES AS REQUIRED FOR COMPLETE INSTALLATION OF WALL AND FLOOR TILE.

C. FINISH ALL GYPSUM BOARD SURFACES TO A LEVEL 3 FINISH. PREPARE AND CLEAN ALL SURFACES IN STRICT ACCORDANCE WITH THE INSTRUCTIONS AND SPECIFICATIONS OF PAINT MANUFACTURER.

E. FILL SAND, PATCH, PRIME, AND PREPARE ALL EXISTING WALLS, DOORS, AND DOOR FRAMES, AS REQUIRED BY MANUFACTURER TO RECEIVE NEW PAINT.

F. FOR DARK/SATURATED PAINT COLORS, COMPLY WITH MANUFACTURER'S RECOMMENDATION FOR PROPER APPLICATION AND VERNISH.

G. PAINT ELECTRICAL PANELS, ACCESS PANELS, AND EXPANSION JOINTS WITH PAINT SPRAYER. MATCH ADJACENT WALL COLOR. PAINTING PANELS BY BRUSH IS NOT ACCEPTABLE.

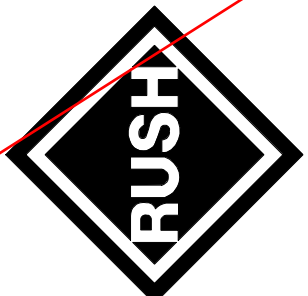
H. ALL GYPSUM BOARD CEILINGS AND SOFFITS. SEE INTERIOR FINISH LEGEND FOR CEILING PAINT INFORMATION.

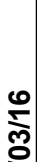
I. SEE A705 FOR FLOORING TRANSITION DETAILS. PROVIDE TRANSITIONS THAT MEET ADA REQUIREMENTS.

J. SEE TRANSITION DETAILS FOR SPECIFIC GUIDANCE ON EACH TRANSITION CONDITION.

K. CLEANLY INSTALL AND TRIM OUT FLOORING AROUND CLEAN-OUT COVERS AND DRAINS.

L. FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE, AND SALIENT CHARACTERISTICS ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS BY OTHER MANUFACTURERS.

[illegible]

	DESIGNED BY:		DATE:
	TGD	SWD BY:	03/03/16
	BWM	SEC	
	SUBMITTED BY:		
	TGD	FILE NAME:	
115 ALMA BLVD., SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com		SIZE D	PLOT DATE:
		22"x34"	03/03/16

EMBRAER EMBRAER AERO SEATING TECHNOLOGIES TITUSVILLE, FL

PRODUCTION BLDG - FINISH SCHEDULE AND LEGEND

PLATE REFERENCE NUMBER
A405

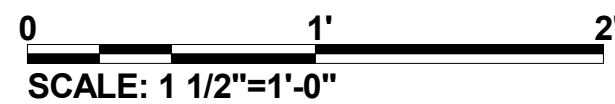


- B



- A501

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



C1	PRODUCTION BUILDING ONLY	V
	TRUCK CANOPY ROOF EDGE DETAIL	
A601	SCALE: 1 1/2" = 1'-0"	

A1 TRUCK CANOPY ROOF EDGE DETAIL
A601 SCALE: 1 1/2" = 1'-0"

D3 SCUPPER
A601 SCALE: 1 1/2" = 1'-0"

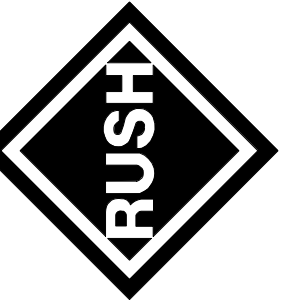
B3 PLUMBING VENT DETAIL
A601 SCALE: 12" = 1'-0"

D5 ROOF PARAPET DETAIL
A601 SCALE: 12" = 1'-0"

B5
A601

TYPICAL EQUIPMENT CURB DETAIL

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

[illegible]

TDG	CKD BY:	03/03/16
DWN BY:	BVM SEC	
SUBMITTED BY:		
TDG		
FILE NAME:		
SIZE: D	PLOT SCALE:	PLOT DATE:
22"x34"		03/03/16



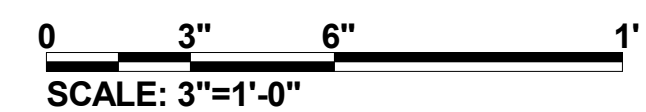
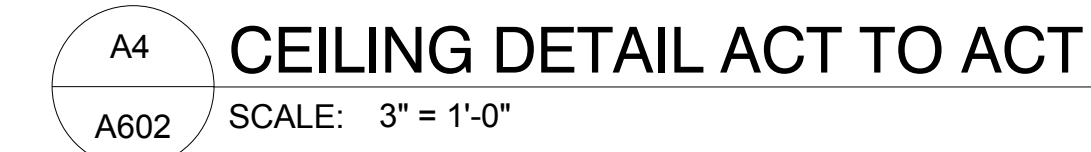
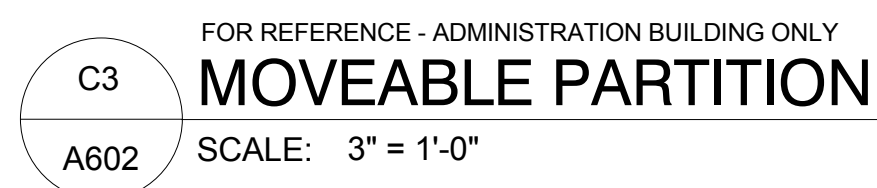
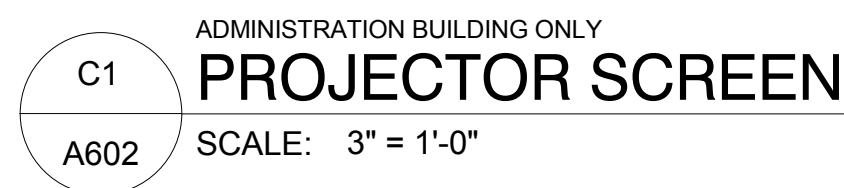
RS&H
115 ALMA BLVD, SUITE 101
MERRITT ISLAND, FL 32953
321-453-0212 www.rsandh.com

AEROSPACE TECHNOLOGIES
TITUSVILLE, FL

ROOF DETAILS

PLATE
REFERENCE
NUMBER
A601

5



DOOR AND WINDOW GENERAL NOTES:

A. COMPLY WITH DESIGN PRESSURE LOADS AT ALL EXTERIOR LOADS. SEE STRUCTURAL SHEETS FOR STRUCTURAL LOAD INFORMATION.

B. PREPARATION OF OPENINGS, INSTALLATION, FASTENING AND STORAGE OF MATERIALS PER DOOR AND WINDOW MANUFACTURER'S STANDARD SPECIFICATION.

C. PROVIDE THE MANUFACTURER'S COMPLETE WARRANTY FOR MATERIALS, WORKMANSHIP AND INSTALLATION TO BE ISSUED TO THE BUILDING OWNER UPON COMPLETION.

D. INSTALL EACH HARDWARE ITEM PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.

E. PROVIDE SUBMITTALS FOR INSTALLATION AND FABRICATION DRAWINGS FOR ALL ALUMINUM WINDOW AND DOOR SYSTEMS.

EXTERIOR HOLLOW METAL DOORS AND FRAMES
BASIS OF DESIGN: CECO DOOR, IMPERIAL 16 GAGE, EXTRA HEAVY DUTY COMMERCIAL FULL FLUSH DOOR WITH POLYURETHANE CORE AND 16 GAGE HOLLOW METAL FRAME OR APPROVED ALTERNATE. MESKER IS APPROVED ALTERNATE. 2

INTERIOR HOLLOW METAL DOORS AND FRAMES
FLUSH DOOR BASIS OF DESIGN: CECO DOOR, IMPERIAL 18 GAGE, HEAVY DUTY COMMERCIAL FULL FLUSH DOOR WITH POLYURETHANE CORE AND 16 GAGE HOLLOW METAL FRAME OR APPROVED ALTERNATE. 2
MESKER IS APPROVED ALTERNATE.

FULL GLASS DOOR BASIS OF DESIGN: CECO DOOR, IMPERIAL 18 GAGE, HEAVY DUTY COMMERCIAL FULL GLASS DOOR WITH POLYURETHANE CORE AND STEEL SLIM TRIM GLAZING POCKET AND 16 GAGE HOLLOW METAL FRAME OR APPROVED ALTERNATE

DOOR NUMBER 127A

FASTRAX INDUSTRIAL DOOR WITH RADIAL TRACK OR APPROVED ALTERNATE; HORMAN HIGH SPEED DOOR IS APPROVED ALTERNATE
DURAMAX INTERIOR AND EXTERIOR STANDARD BLUE MATERIAL WITH CONTINUOUS VIEW WINDOW

2-HP DRIVE SYSTEM OPERATOR

DOOR NUMBER 129A AND 130A
BASIS OF DESIGN: CORNELL THERMISER INSULATED DOOR MODEL ESD20 OR APPROVED ALTERNATE
GALVANIZED STEEL WITH GALVANEX CORNELL WHITE FINISH
CHAIN OPERATED

DOOR NUMBER 136 AND 137
BASIS OF DESIGN: CORNELL THERMISER INSULATED DOOR MODEL ESD20 OR APPROVED ALTERNATE
GALVANIZED STEEL WITH GALVANEX CORNELL WHITE FINISH
CORNELL INDUSTRIAL DUTY MG OPERATOR OR APPROVED ALTERNATE
ENTRAPMENT PROTECTION DEVICES NEMA 4X PHOTO EYES OR APPROVED ALTERNATE
DOCK LEVELER RHH-4000 10' L X 7' W WITH 18" SAFE-T-LIP OR APPROVED ALTERNATE
DOCK-LOK VEHICLE RESTRAINT VBR-300 OR APPROVED ALTERNATE
DOK GUARDIAN OR APPROVED ALTERNATE
DOK COMMANDER COMBINATION CONTROL BOX OR APPROVED ALTERNATE
4" LAMINATED BUMPER
DRIVER WARNING SIGNS
OUTSIDE LIGHT BOX
CONTROL BOX MUST ECLIPSE NH SOLID SIDED DOCK SHELTER WITH PITMASTER SEAL OR APPROVED ALTERNATE
BLUE GIANT DOCK EQUIPMENT IS APPROVED ALTERNATE

2

OUTSIDE LIGHT BOX
CONTROL BOX MAST ECLIPSE NH SOLID SIDED DOCK SHELTER WITH PITMASTER SEAL OR APPROVED ALTERNATE
BLUE GIANT DOCK EQUIPMENT IS APPROVED ALTERNATE.

(BLUE GIANT DOCK EQUIPMENT IS APPROVED ALTERNATE.)

HARDWARE SETS

HARDWARE SETS CONTINUED

HARDWARE SETS CONTINUED

SET #10				
1	CYLINDER	1E-74 OR 12E-72 STD AS REQ.	626	BE
1	PADLOCK	21B-722L STD M1 XSP/L	626	BE
1	DOOR POSITION SWITCH	BY ACCESS CONTROL SUPPLIER		BY
NOTE: DOOR POSITION SWITCH AT EXTERIOR LOCATIONS				
NOTE: OVERHEAD DOOR PROVIDER CYLINDER AS REQUIRED OR PADLOCK BALANCE OF HARDWARE BY THE OVERHEAD DOOR MFG.				
SET #11				
4	HINGES	FBB191 4 1/2 X 4 1/2 NRP	US32D	ST
4	LOCKSET	QCL171 M 478S HC LC	626	SH
1	CORE	1C-7F2	626	BE
1	DOOR CLOSER	QDC313 F SN 2	689	SH
1	KICK PLATE	K0050 8" x 2" LDW B4E C-SUNK	630	TR
1	DOOR POSITION SWITCH	DPS-MBK		SN
1	DRIP CAP	16 A 4"ODW		NA
1	WEATHERSTRIP	180S @ HEAD AND JAMBS		NA
1	BRUSH DOOR SWEEP	C627 A		NA
1	SADDLE THRESHOLD	425	AL	NA
SET #12				
7	HINGES	FBB199 4 1/2 X 4 1/2 NRP	US32D	ST
1	ELECTRIC HINGE	CE FBB199 4 1/2 X 4 1/2 66	US32D	ST

NOTE: CARD READER SIGNALS UNLOCKING OF THE LOCK ALLOWING ENTRY. THE REQUEST TO EXIT SWITCH ON THE INSIDE LEVER SIGNALS AUTHORIZED EXITING. DOOR POSITION SWITCH MONITORS THE DOOR POSITION. COORDINATE ELECTRICAL REQUIREMENTS WITH THE RELATED TRADES AND SECTIONS.

SET #8

QTY	DESCRIPTION	UNIT	PRICE	TOTAL	REMARKS
1	POWER SUPPLY	8000314			SH
2	DOOR POSITION SWITCH	DPS-M-BK			SN
1	ASTRAGAL	BY DR. MFG.			BY
1	DRIP CAP	16 A 4"ODW			NA
1	WEATHERSTRIP	160S @ HEAD AND JAMBS			NA
2	BRUSH DOOR SWEEP	C627 A			NA
1	SADDLE THRESHOLD	425			AL NA
NOTE: CARD READER SIGNALS UNLOCKING OF THE LOCK ALLOWING ENTRY. THE REQUEST TO EXIT SWITCH ON THE INSIDE LEVER SIGNALS AUTHORIZED EXITING. DOOR POSITION SWITCH MONITORS THE DOOR POSITION. COORDINATE ELECTRICAL REQUIREMENTS WITH THE RELATED TRADES AND SECTIONS.					
SET #13					
8	HINGES	FBH199 4 1/2 X 4 1/2 NRP			US32D ST
1	KEYED REMOVABLE MULLION	QRM111 HC KR 80"			600 SH
1	EXIT DEVICE	QED111 X QET175 L HC LC			626 SH
1	EXIT CYLINDER	QED111 HC			626 SH
2	RIM GLASS	12E-72 STD			626 BE
2	DOOR CLOSER	QDC313 F SN			689
2	KICK PLATE	KO050 8" X 11"DW B4E C-SUNK			630 TR
2	DOOR POSITION SWITCH	DPS-M-BK			SN
1	DRIP CAP	16 A 4"ODW			NA
1	WEATHERSTRIP	160S @ HEAD AND JAMBS			NA
2	BRUSH DOOR SWEEP	C627 A			NA
1	MULLION SEAL	5100N-96 96"			NA
1	LIP THRESHOLD	896 P 72"			AL NA
NOTE: CARD READER SIGNALS RETRACTION OF LATCH ALLOWING ENTRY. THE X REQUEST TO EXIT SWITCH IN THE PUSH RAIL SIGNALS AUTHORIZED EXITING. DOOR POSITION SWITCH MONITORS THE DOOR POSITION. COORDINATE ELECTRICAL REQUIREMENTS WITH THE RELATED TRADES AND SECTIONS.					

NOTE: CARD READER SIGNALS RETRACTION OF LATCH ALLOWING ENTRY. THE X REQUEST TO EXIT SWITCH IN THE PUSH RAIL SIGNALS AUTHORIZED EXITING. DOOR POSITION SWITCH MONITORS THE DOOR POSITION. COORDINATE ELECTRICAL REQUIREMENTS WITH THE RELATED TRADES AND SECTIONS.

[illegible]

	115 ALMA BLVD, SUITE 101 MIAMI, FL 33130 321-453-0212 www.rsandh.com		DESIGNED BY: TDG	DATE: 03/03/16
			CWD BY: BVM SEC	
		SUBMITT BY: TDG		
		FILE NAME: 22743	PLOT SCALE: 22'x34'	PLOT DATE: 03/03/16



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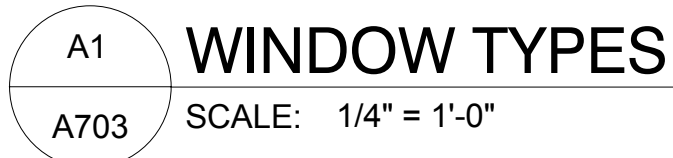
EMBRAER AERO SEATING TECHNOLOGIES
TITUSVILLE, FL

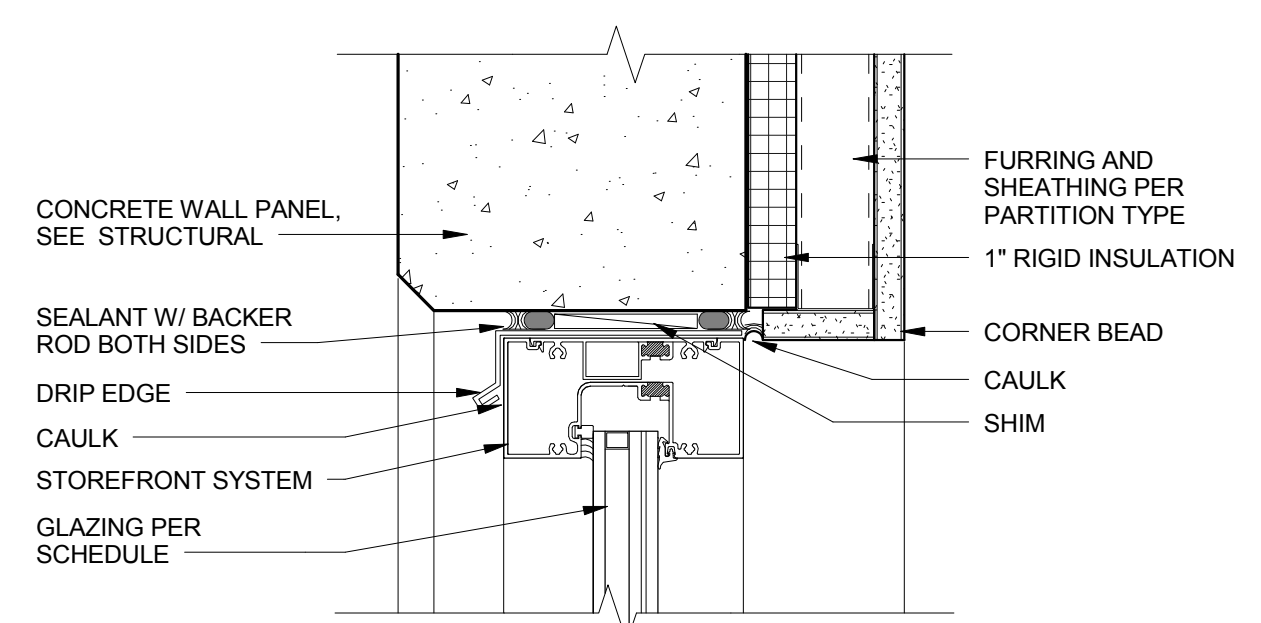
PRODUCTION BLDG - DOOR

AND WINDOW SCHEDULE

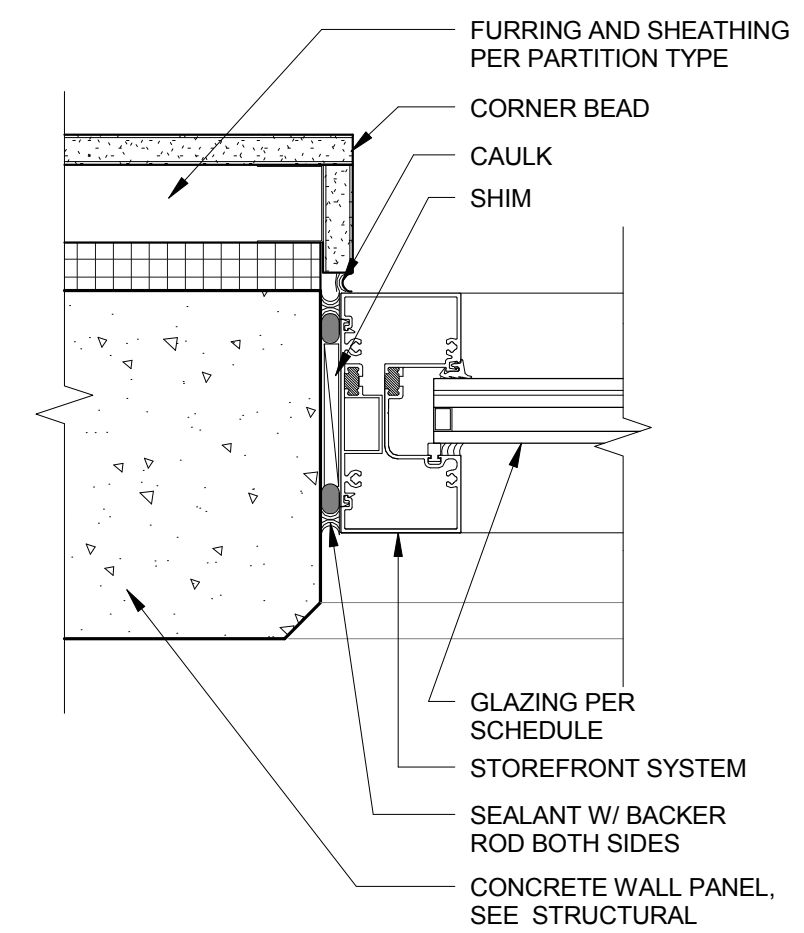
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A701

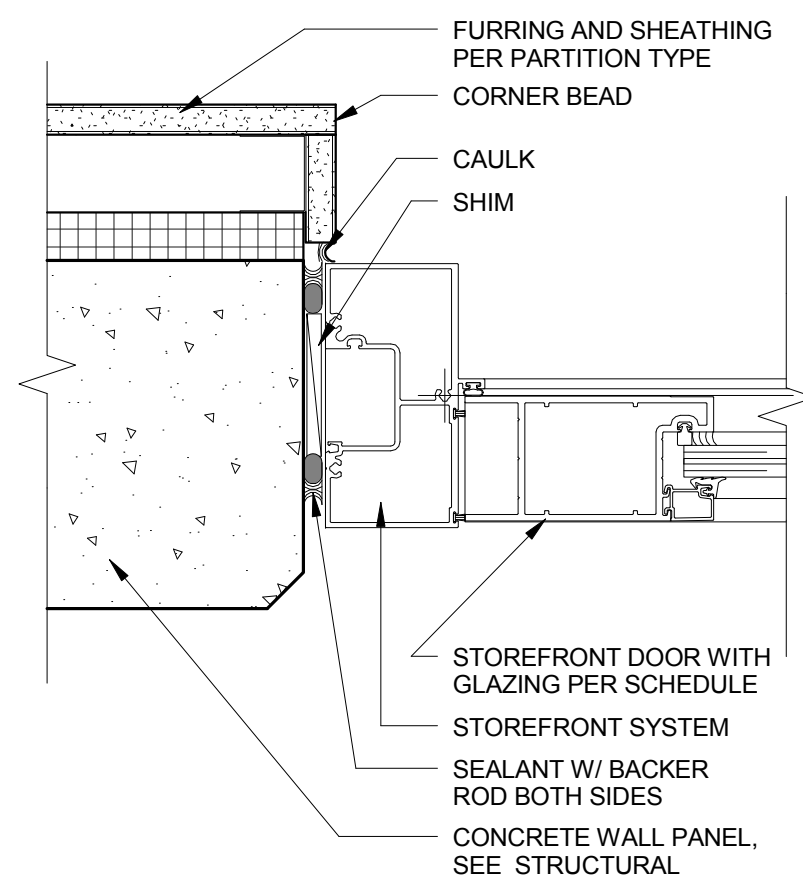




D5 STOREFRONT WINDOW HEAD
A704 SCALE: 3" = 1'-0"

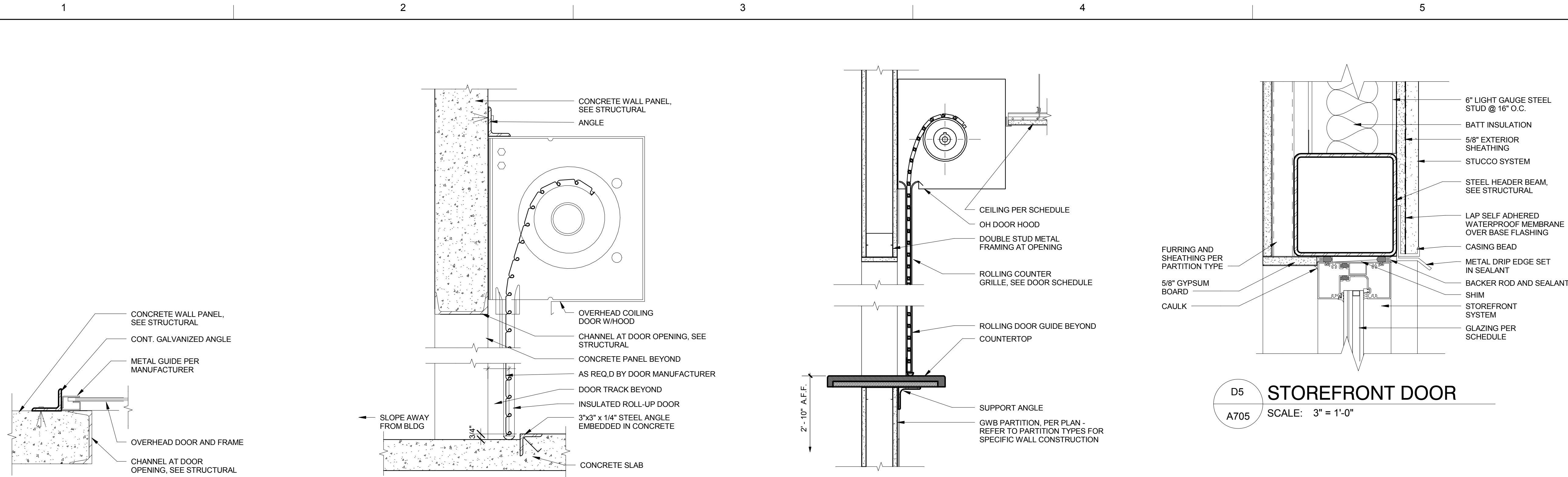


C5 STOREFRONT WINDOW JAMB
A704 SCALE: 3" = 1'-0"



SEE S
B5 STOREFRONT JAMB
A704 SCALE: 3" = 1'-0"

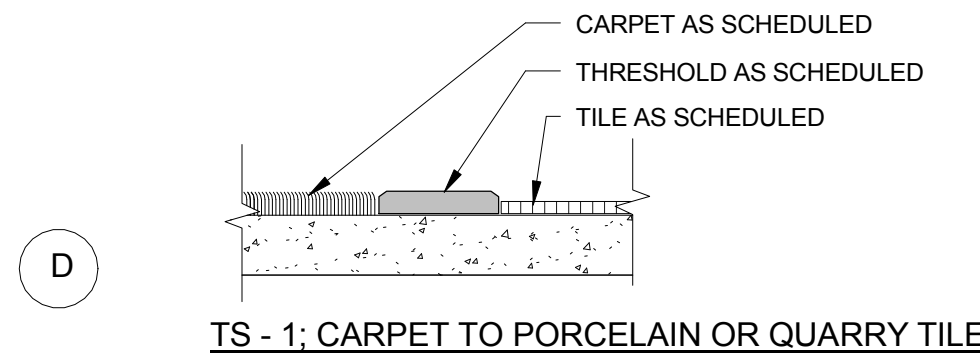
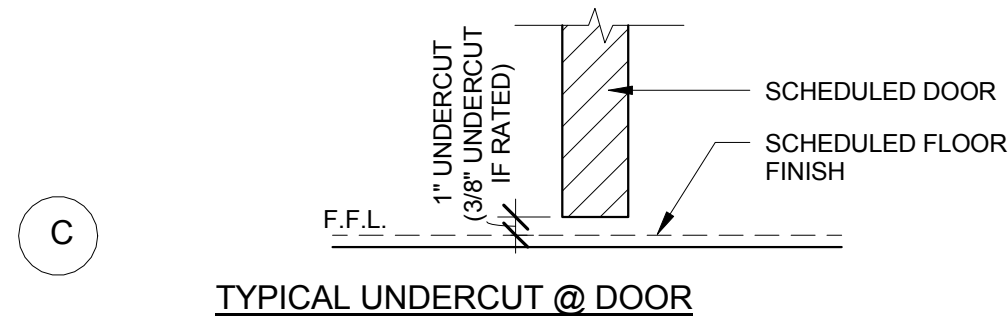
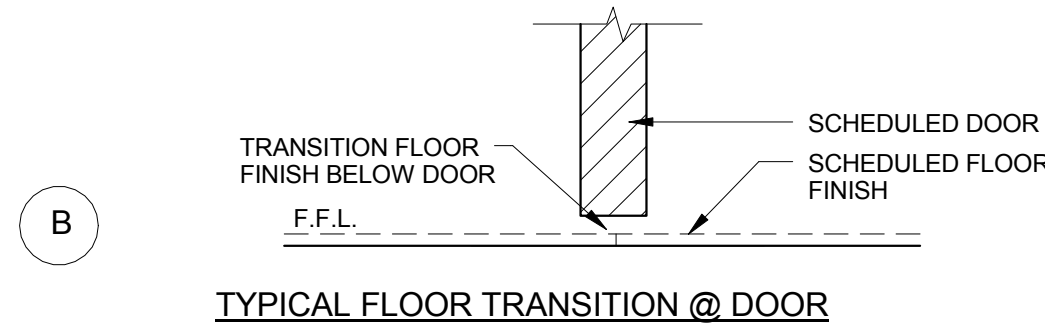
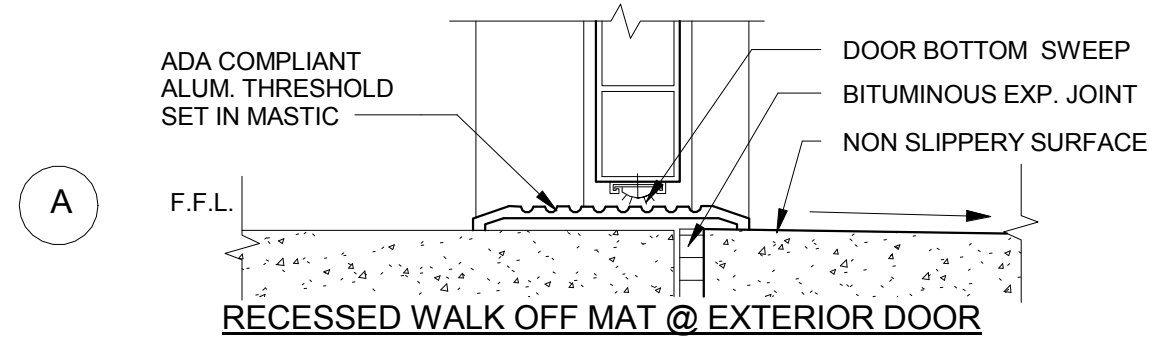




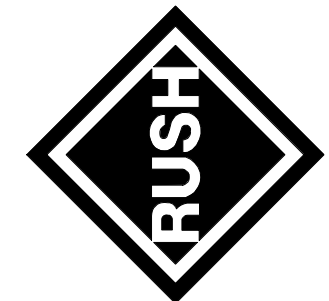
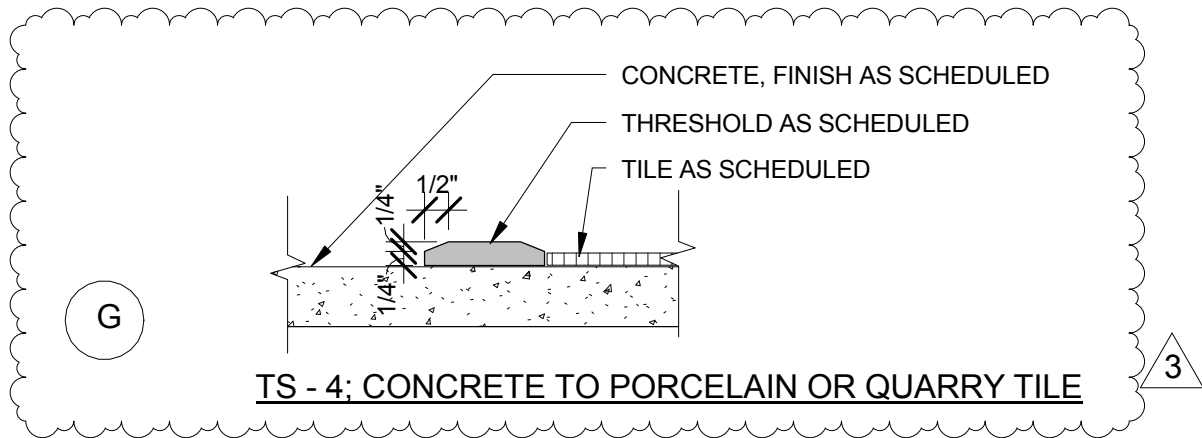
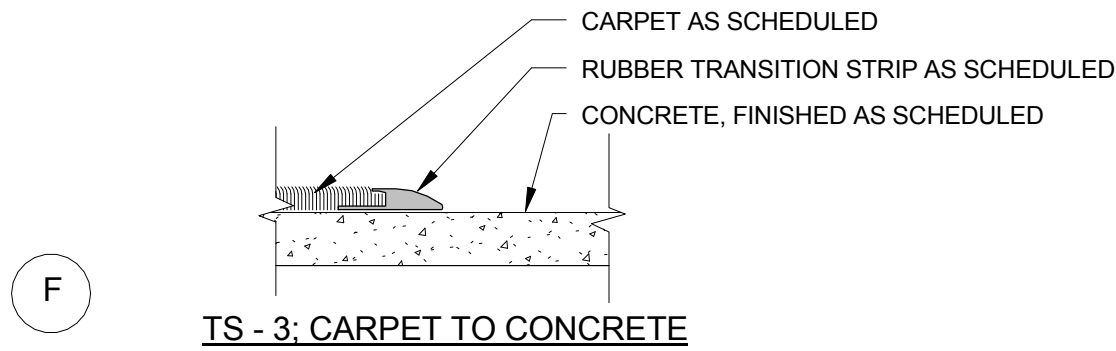
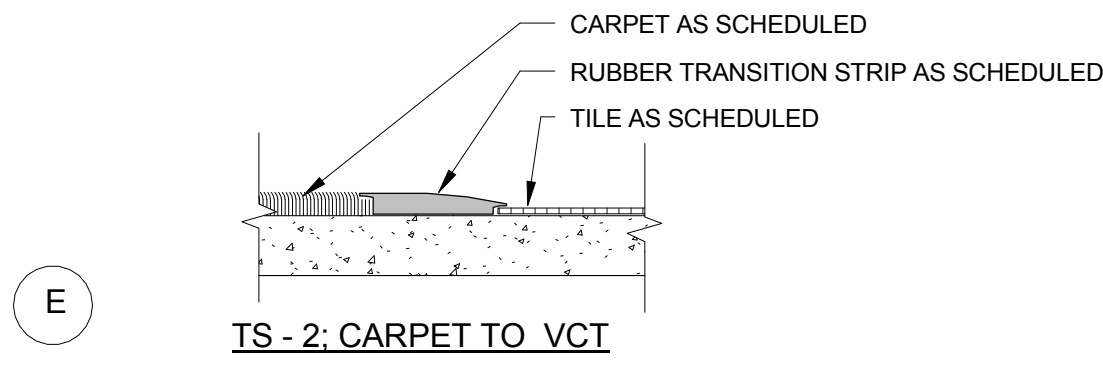
C1 OH DOOR JAMB
A705 SCALE: 1 1/2" = 1'-0"

C2 OH DOOR
A705 SCALE: 1 1/2" = 1'-0"

C3 O.H. DOOR HEAD @ COUNTER
A705 SCALE: 1 1/2" = 1'-0"



A1 TRANSITION SILL DETAILS
A705 SCALE: 3" = 1'-0"



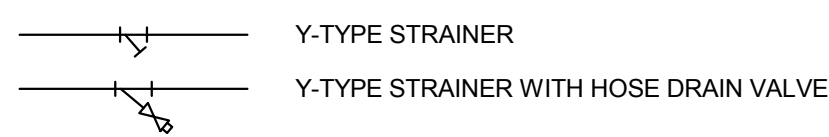
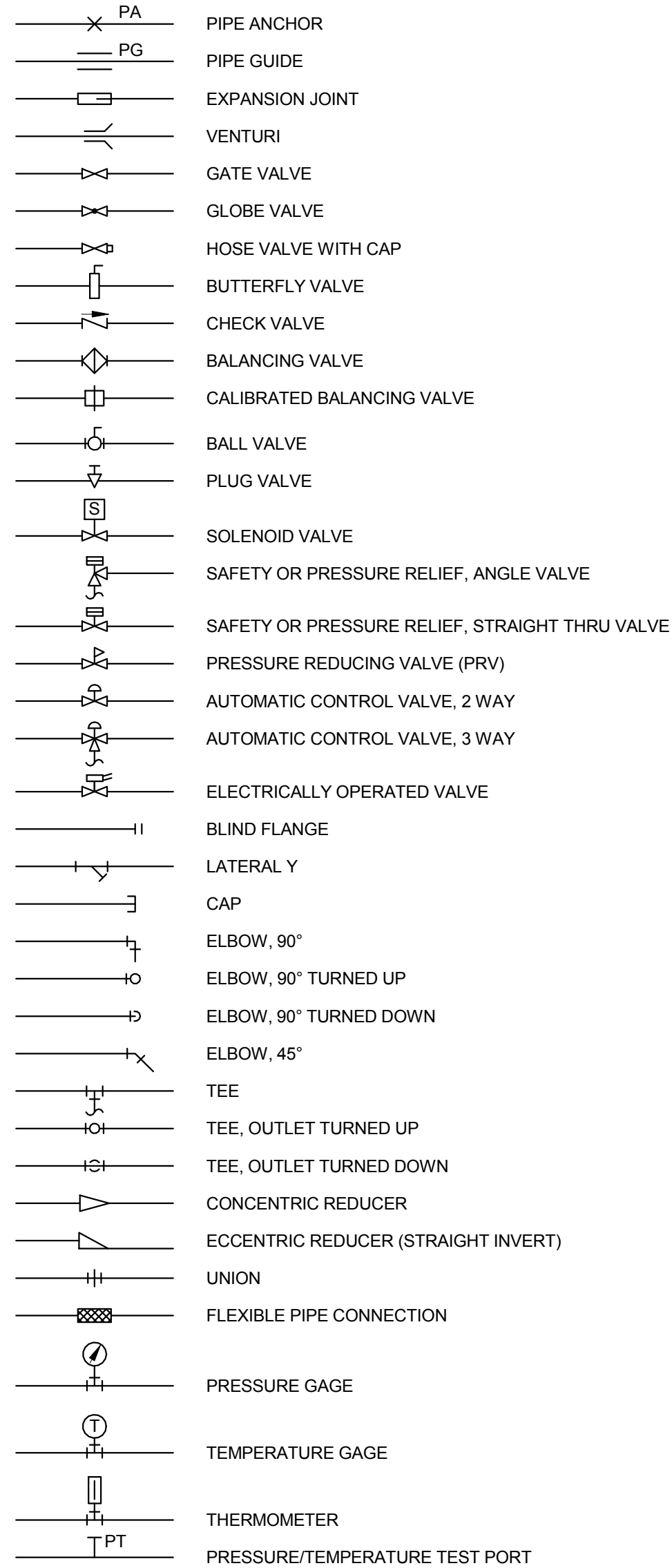
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DWN BY:			
SEC			
SUBMITTED BY:			
TDG			
FILE NAME:			
SIZE: D	PLOT SCALE:	PLOT DATE:	
22"x34"		03/03/16	
RESPONSE TO CITY OF TITUSVILLE COMMENTS			
3	SYMBOL	DESCRIPTION	

DESIGNED BY:	DATE:	BY:	DATE:
TDG	03/03/16	BVM	03/03/16
DWN BY:		SEC	
SUBMITTED BY:		TDG	
FILE NAME:			
SIZE: D	PLOT SCALE:	PLOT DATE:	
22"x34"		03/03/16	

EMBRAER AERO SEATING TECHNOLOGIES TITUSVILLE, FL	DOOR DETAILS
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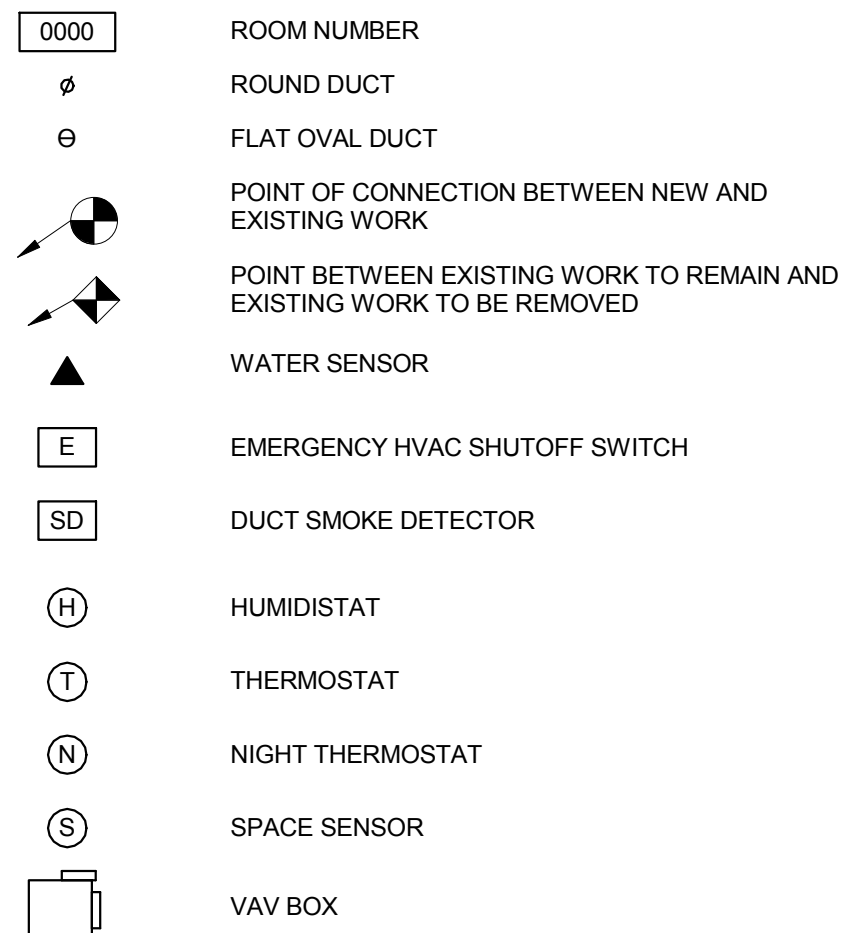
PLATE REFERENCE NUMBER A705

PIPING SYMBOLS

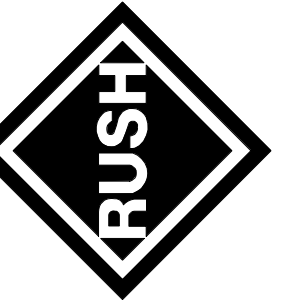
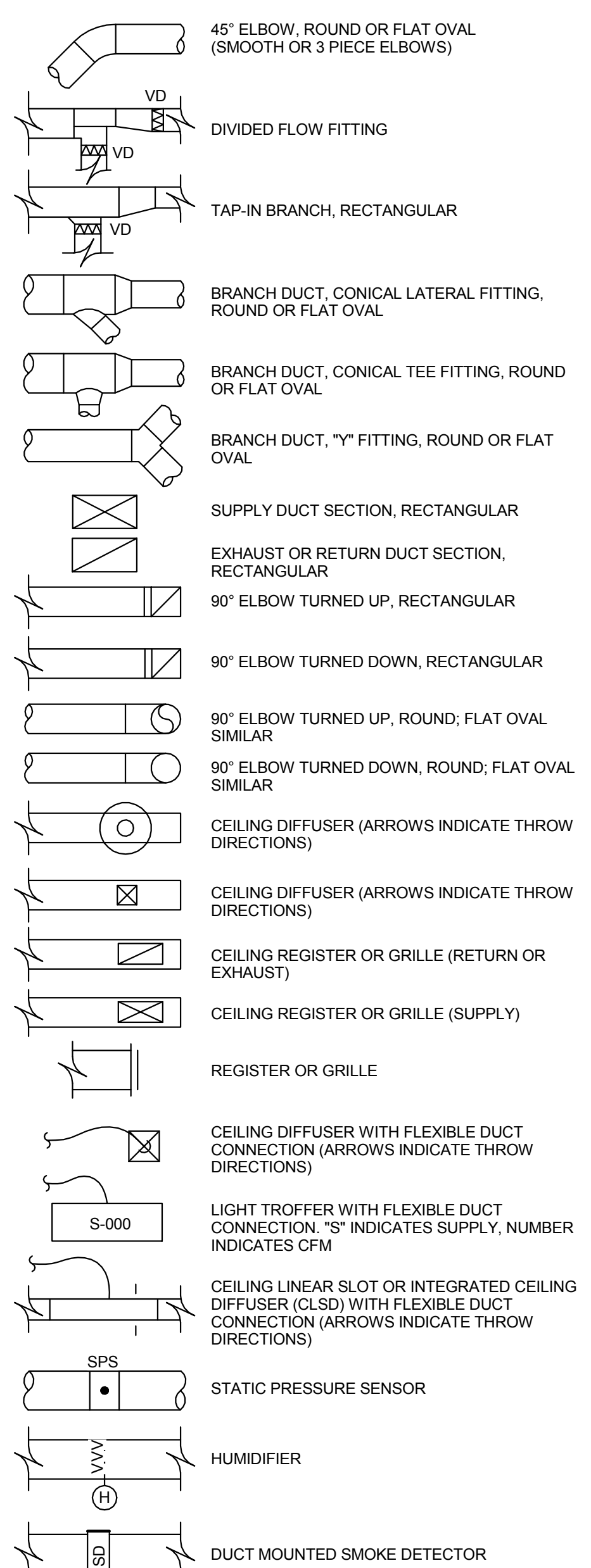
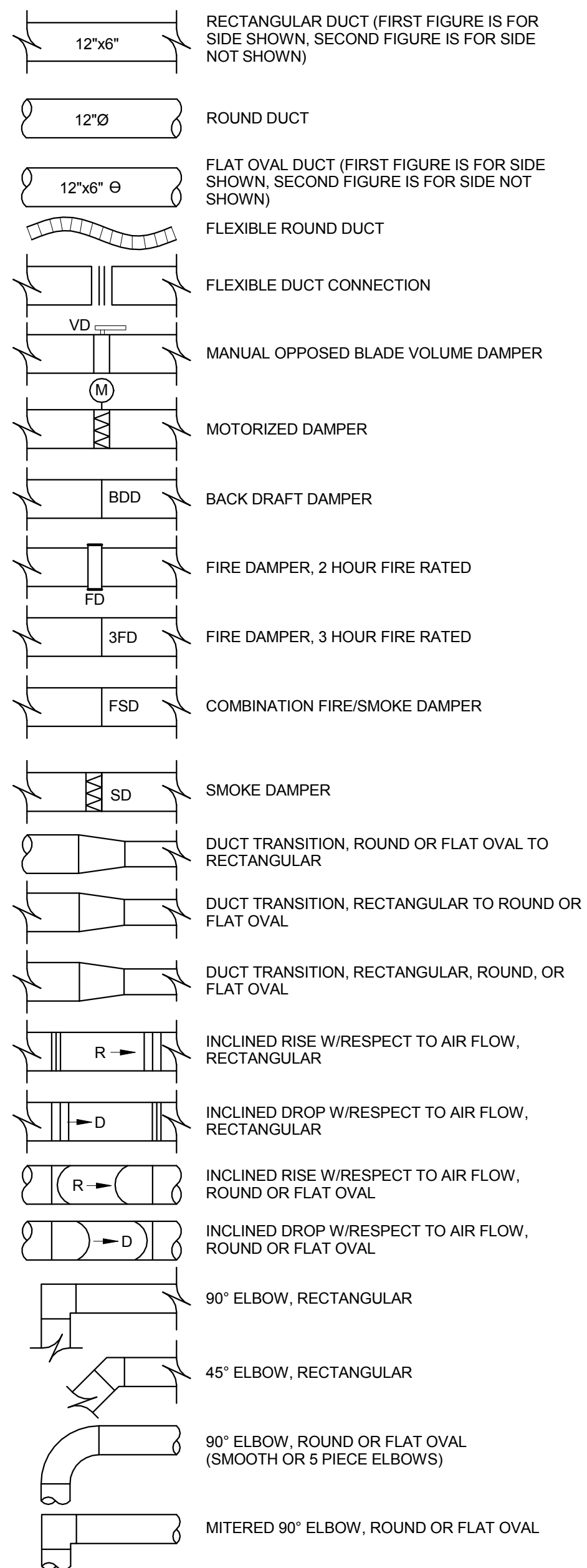


* PROVIDE SHUT OFF COCK WITH SIPHON OR PULSATION DAMPENER.

MISC SYMBOLS



DOUBLE LINE DUCTWORK SYMBOLS

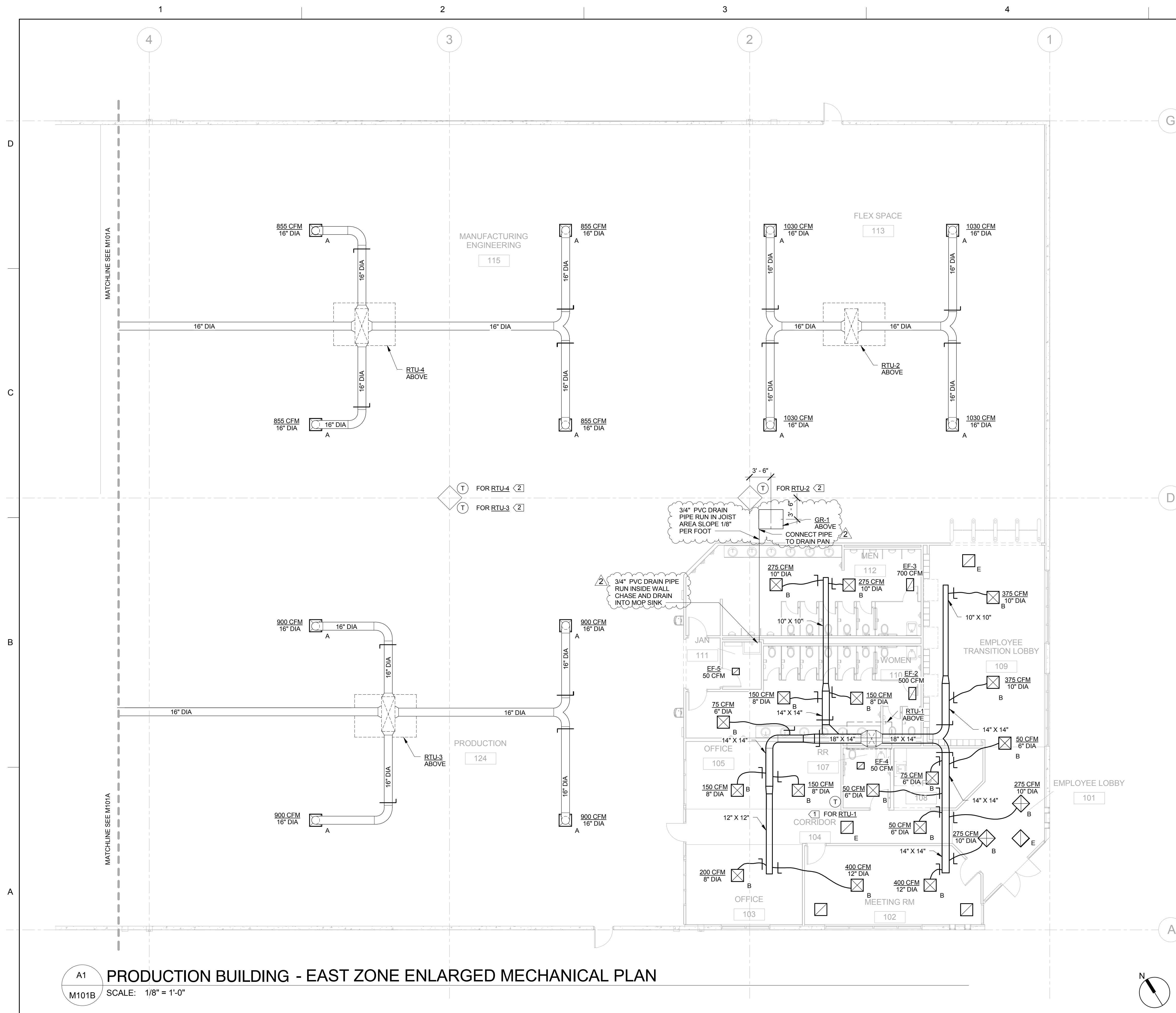
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LAS		REO	
	SUBMITTED BY:		
	Approver		
	FILE NAME:		
	SIZE: D	PLOT SCALE:	PLOT DATE:
	22"x34"		03/03/16

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115 ALMA BLVD., SUITE 101
MERRITT ISLAND, FL 32963
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TECHNOLOGIES
TITUSVILLE, FL

PLATE
REFERENCE
NUMBER
M002

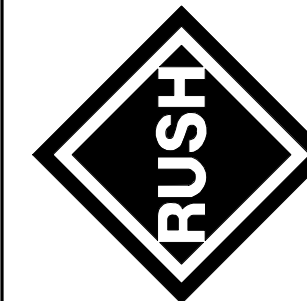


GENERAL HVAC NOTES:

- A. DUCTS FOR RTU-2, 3, 4 TO BE ROUTED THROUGH AND BETWEEN BAR JOISTS UNLESS OTHERWISE SPECIFIED.
- B. TYPE A DIFFUSERS TO BE POSITIONED TO PROVIDE 17 FEET CLEAR ABOVE FLOOR.
- C. SUPPORT PVC DRAIN PIPE PER NOTES P001.

HVAC KEYED NOTES:

- 1 MOUNT SENSOR TO WALL.
- 2 MOUNT SENSOR TO COLUMN.

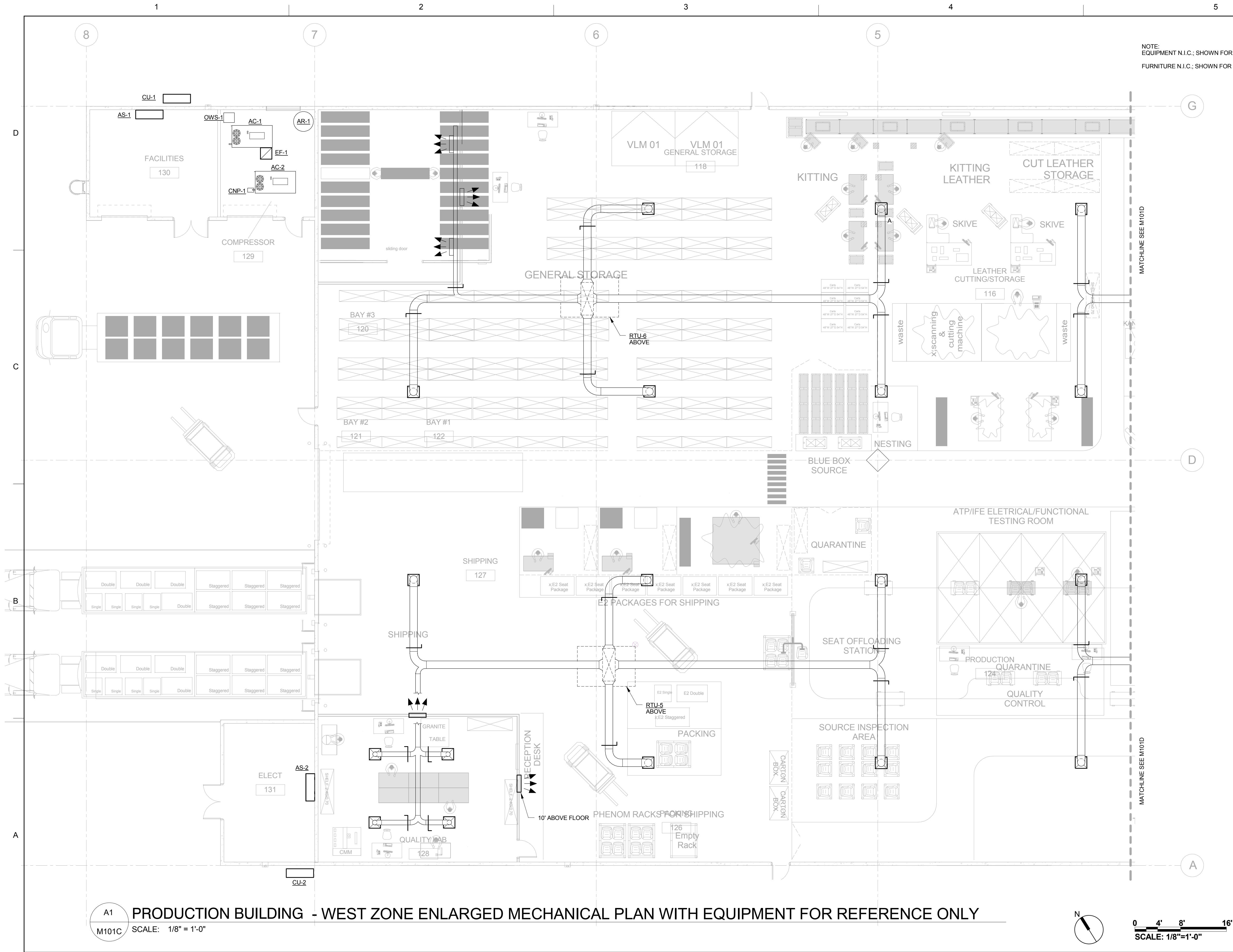
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RS&H		115 ALMA BLVD, SUITE101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com	
DESIGNED BY:	DATE:	OWN BY:	PKD BY:
DEI	03/03/16	LAS	REO
SUBMITTED BY:		APPROVED BY:	
FILE NAME:			
SIZE D	PLOT SCALE:	SIZE E	PLOT DATE:

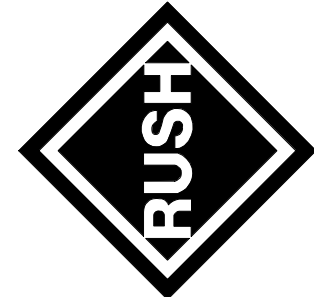
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 TECHNOLOGIES
 ITTUSVILLE, FL

**PRODUCTION BUILDING -
 EAST ZONE ENLARGED
 MECHANICAL PLAN**

PLATE
REFERENCE
NUMBER
M101B



NOTE:
EQUIPMENT N.I.C.; SHOWN FOR REFERENCE ONLY.
FURNITURE N.I.C.; SHOWN FOR REFERENCE ONLY.



DATE	BY
03/03/2016	BVM
DESCRIPTION	SYMBOL
CONTRACT SET FOR CONSTRUCTION	2

DESIGNED BY:	DATE:
DEH	03/03/16
CRD BY:	
BVM	REO
SUBMITTED BY:	
TUG	
FILE NAME:	
115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32853 321-463-0212 www.rsandh.com	
SIZE: D	PLOT SCALE:
22"x34"	03/03/16

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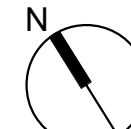
PRODUCTION BLDG - WEST

ZONE ENLARGED MECH.

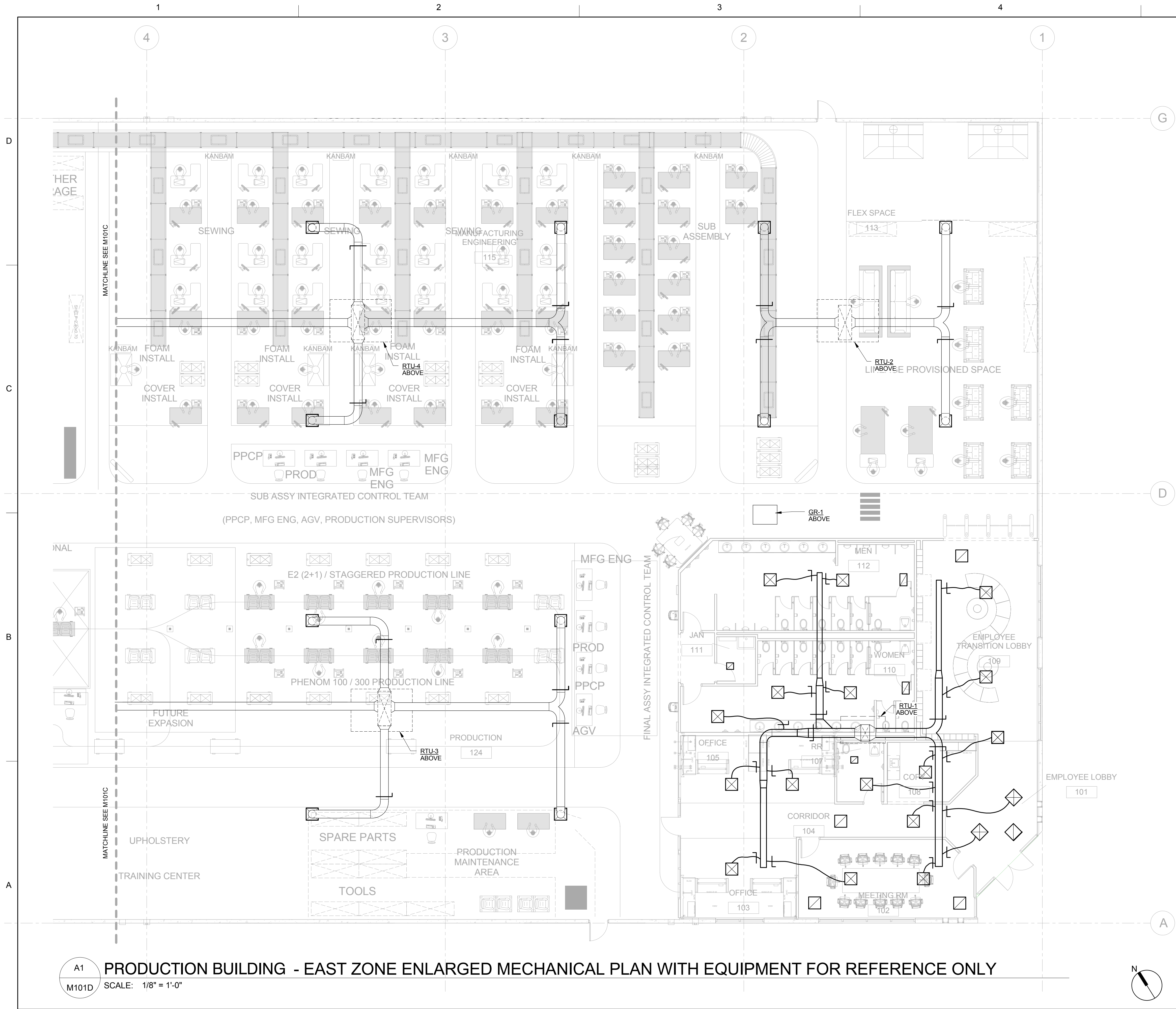
PLAN WITH EQUIPMENT

PLATE
REFERENCE
NUMBER
M101C

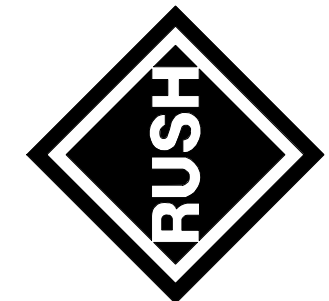
A1 PRODUCTION BUILDING - WEST ZONE ENLARGED MECHANICAL PLAN WITH EQUIPMENT FOR REFERENCE ONLY
M101C SCALE: 1/8" = 1'-0"



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



NOTE:
EQUIPMENT N.I.C.; SHOWN FOR REFERENCE ONLY.
FURNITURE N.I.C.; SHOWN FOR REFERENCE ONLY.



DATE	BY
03/03/2016	BVM
SYMBOL	DESCRIPTION
2	CONTRACT SET FOR CONSTRUCTION

DESIGNED BY: DEH	DATE: 03/03/16
DWN BY: BVM	GRD BY: REO
SUBMITTED BY: TDG	FILE NAME: 115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32853 321-463-0212 www.rsandh.com
SIZE: D 22X34"	PLOT SCALE: 03/03/16

EMBRAER EMBAER AERO SEATING
TECHNOLOGIES
TITUSVILLE, FL
**PRODUCTION BLDG - EAST
ZONE ENLARGED MECH.
PLAN WITH EQUIPMENT**

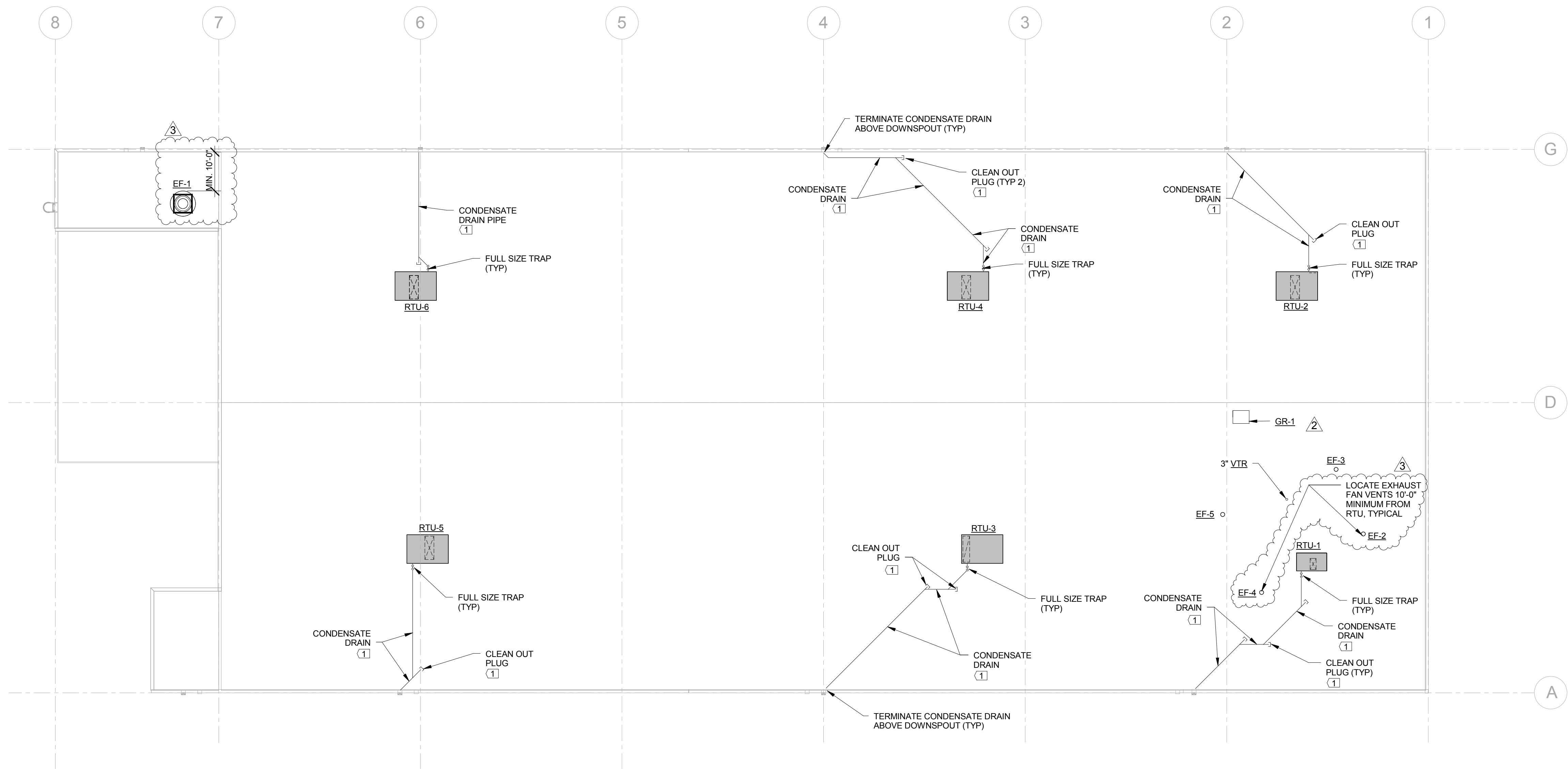
PLATE
REFERENCE
NUMBER
M101D

GENERAL HVAC NOTES:

- A. SEE STRUCTURAL FOR RTU SUPPORT STEEL.
- B. SEE M501 FOR CONDENSATE DRAIN TRAP AND SUPPORT DETAIL.
- C. SEE M501 FOR GRAVITY RELIEF VENT DETAIL.

HVAC KEYED NOTES:

- 1 DRAIN PIPE AND FITTING TO BE SAME DIAMETER AS DRAIN CONNECTION ON RTU; 3/4" DIA MINIMUM.

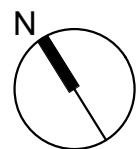


A1

M121

PRODUCTION BUILDING - MECHANICAL ROOF PLAN

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



0 8' 16' 32'
SCALE: 1/16"=1'-0"

[illegible]

RS&H	
115 ALMA BLVD. SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com	
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DRAWN BY:	REO
SUBMITTED BY:	
TDG	
FILE NAME:	
SIZE D	PLOT SCALE:
22"x34"	
PLOT DATE:	
03/03/16	



EMBRAER

EMBRAER AERO SEATING

TECHNOLOGIES

TITUSSVILLE, FL

PRODUCTION BLDG -

MECHANICAL ROOF PLAN

PLATE
REFERENCE
NUMBER
M121



NOTES:

A. "D" IS THROAT DIA OR SIDE DIM. OF SQUARE CONN.
B. MIN LENGTH OF STRAIGHT DUCT ABOVE CD IS "D".
C. ABOVE DETAILS ARE REPRESENTATIVE OF STANDARD DUCT CONNECTIONS, ONLY. THESE DETAILS ARE NOT INTENDED TO SHOW ALL POSSIBLE DUCT CONNECTIONS.

SCALE: NTS



VIDEO FOAM RUBBER GASKETING WITH WATER
OF CAULKING ALL 4 SIZES BETWEEN FRAME
NAILER

BIRDSCREEN

← 12" OR 1/2 DIMENSION OF ROOF OPENING—WHICHEVER IS GREATER

2" DEEP SHEET METAL DRIP PAN SUSPENDED FROM
ROOF DECK-6" LARGER THAN ROOF OPENING (3" EACH
SIDE). COAT INSIDE OF PAN W/BITUMASTIC PAINT.

SCALE: 12" = NONE



1. CONDENSATE DRAIN SHALL BE PIPED FULL SIZE OF UNIT CONNECTION.

DRAW THRU AHU P-TRAP

NEGATIVE STATIC PRESSURE

$$X = 1/2 "H"$$

H = AT LEAST 1" PLUS
SCH. FAN STATIC
PRESSURE

L = X L H L (1.5 X PIPE DIAMETER) L INSULATION THICKNESS.

SCALE: NTS



CEILING —

GRILLE FACE

SCALE: NTS

[illegible]

RS&H		DESIGNED BY:		DATE:
		DEH	03/03/16	
		TO:		
		BY:		
		CHK BY:		
		LAS	REO	
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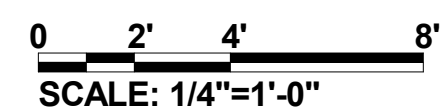
EMBRAER AERO SEATING

TECHNOLOGIES

TITUVILLE, FL

MECHANICAL DETAILS

PLATE
REFERENCE
NUMBER
M501





1. BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS.

BRANCH DUCT DETAIL



ALL FASTENERS SHALL BE STAINLESS STEEL

D3 ROOF CURB DETAIL
M502 SCALE: NTS



1. MAXIMUM SPACING BETWEEN HANGER LOCATIONS SHALL BE 8'-0" PER PAIR.
2. STRAPS SHALL BE MINIMUM 1" x 22 GAGE GALVANIZED STEEL.
3. REFER TO SMACNA FOR ADDITIONAL REQUIREMENTS.

A3
M502
DUCT HANGER DETAIL
 SCALE: NTS



1. DAMPERS SHALL BE CONSTRUCTED, TESTED AND LABELED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES SAFETY STANDARD 555 FOR DYNAMIC SYSTEM AND SHALL BE RATED FOR CLOSURE AGAINST AIRFLOW IN AIR INSTALLATION CONFIGURATION, I.E. DUCTED, UNDUCTED, VERTICAL, HORIZONTAL AIRFLOW UP, OR HORIZONTAL AIRFLOW DOWN.
2. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE U.L. INSTALLATION INSTRUCTION SHEET PROVIDED WITH THE DAMPER.
3. FIRE DAMPER BLADES SHALL BE OUT OF THE AIRSTREAM (WHEN OPEN)

D4 FIRE DAMPER DETAIL
M502 SCALE: NTS



1. FLEXIBLE DUCTS SHALL BE ONE-PIECE AND SHALL NOT BE SPLICED TOGETHER.
2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
3. MINIMUM 1" WIDE 22 GA. GALVANIZED STRAP HANGER WITH HEMMED EDGES PER SMACNA DUCT MANUAL FIGURE 3-10.
4. FLEXIBLE AIR DUCT SHALL BE FULLY EXTENDED AND NOT COMPRESSED. ELBOW RADIUS SHALL NOT BE LESS THAN R/D = 1.0.
5. SEAL ALL DUCT CONNECTIONS, COLLARS, AND FLANGES. INSULATE ALL DUCT CONNECTIONS, COLLARS, AND FLANGES. SEAL INSULATION SEAMS WITH MASTIC.

A4 FLEXIBLE DUCT DETAIL
M502 SCALE: NTS

[illegible]

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	PLOT SCALE:	

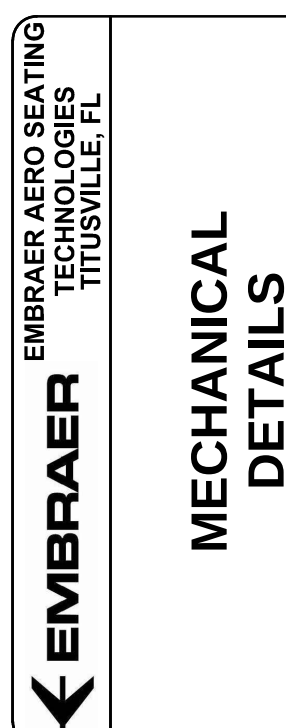
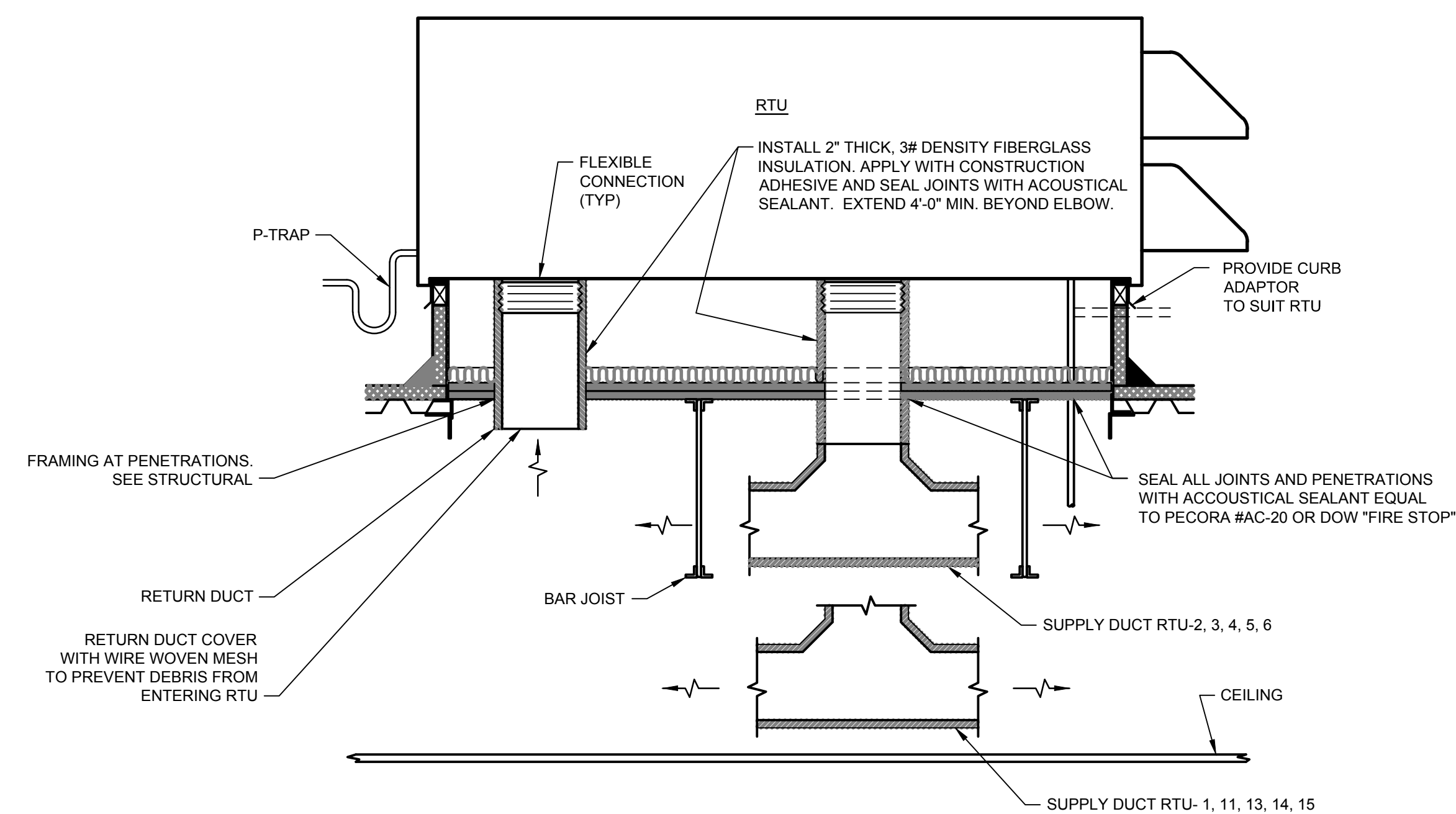
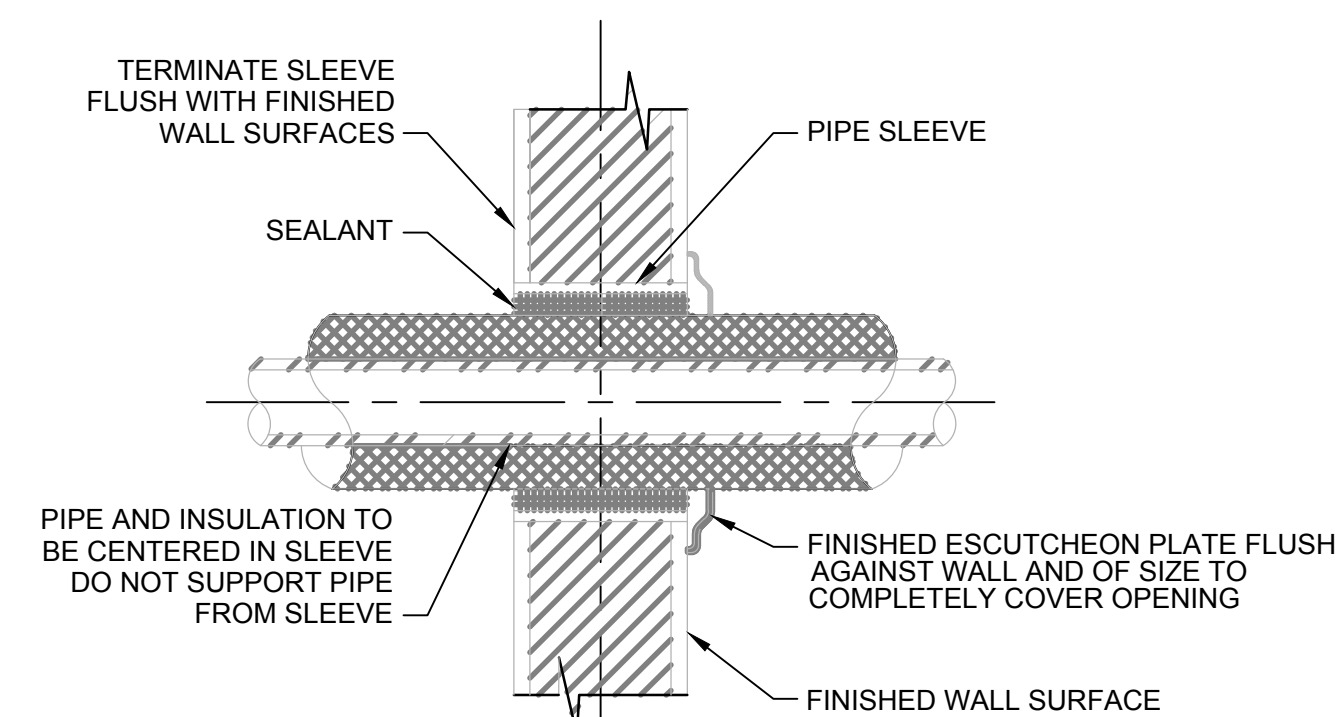


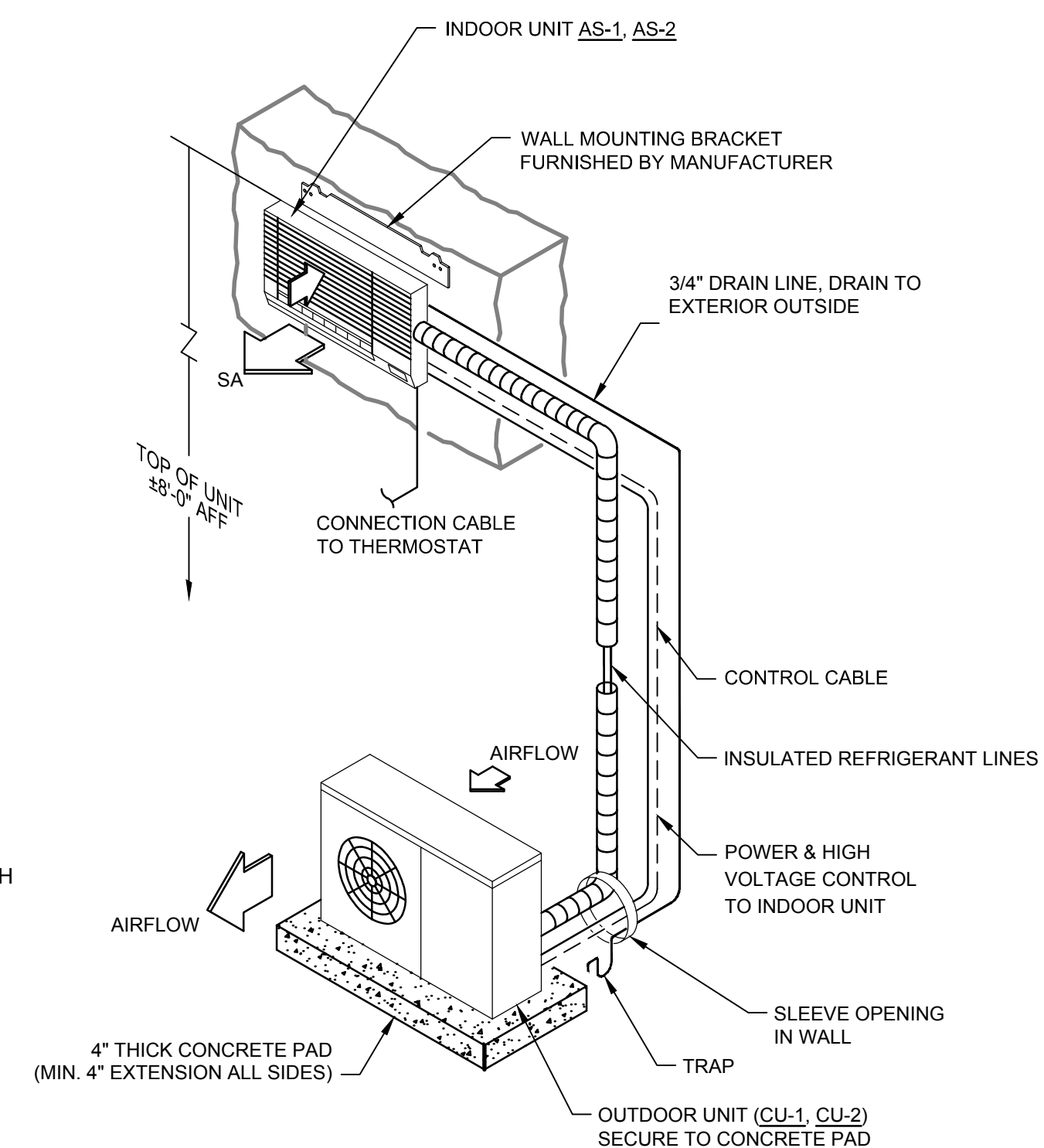
PLATE
REFERENCE
NUMBER
M502



C1 TYPICAL RTU INSTALLATION DETAIL
M503 SCALE: NTS

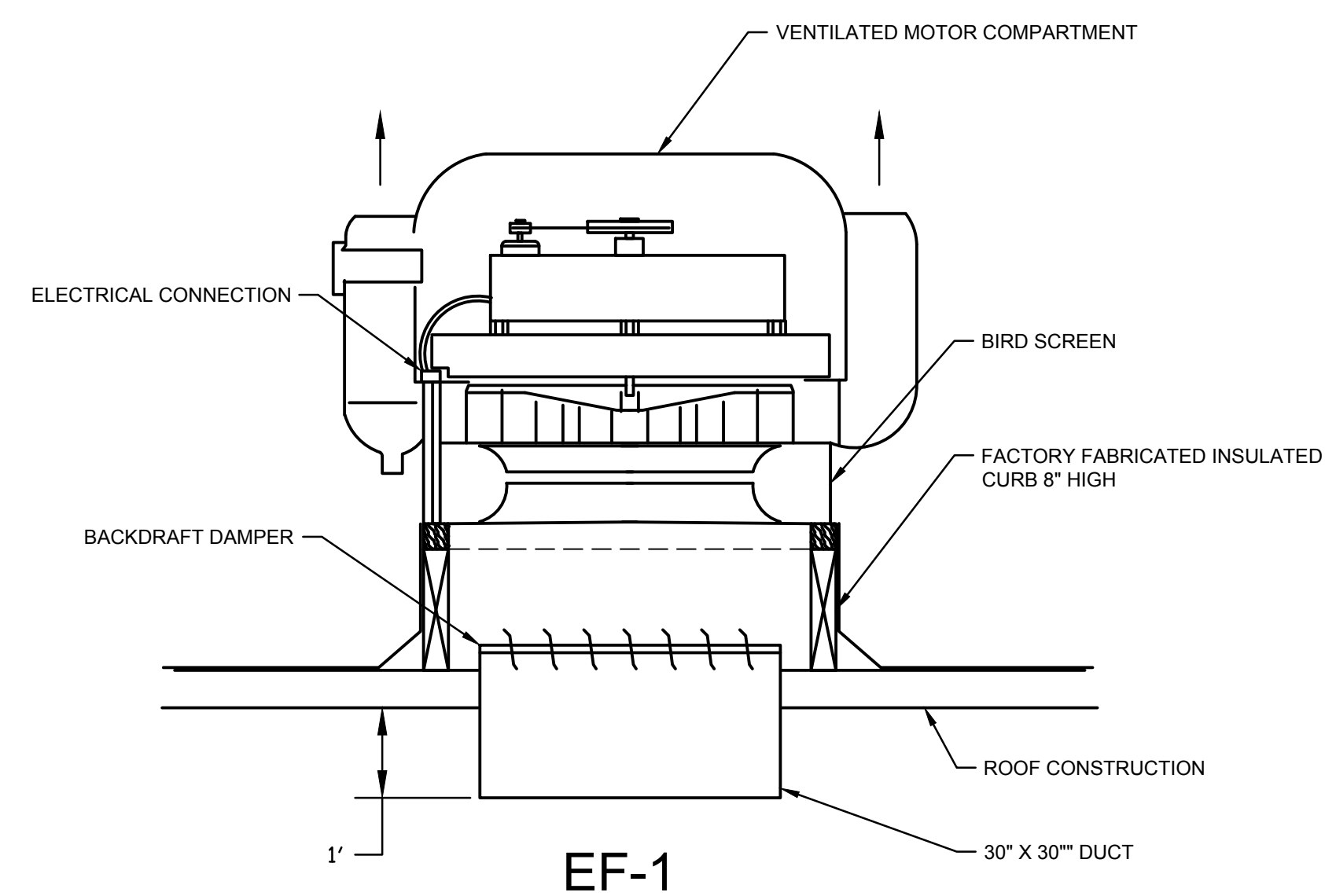


C2 TYPICAL PIPE THRU WALL DETAIL
M503 SCALE: NTS

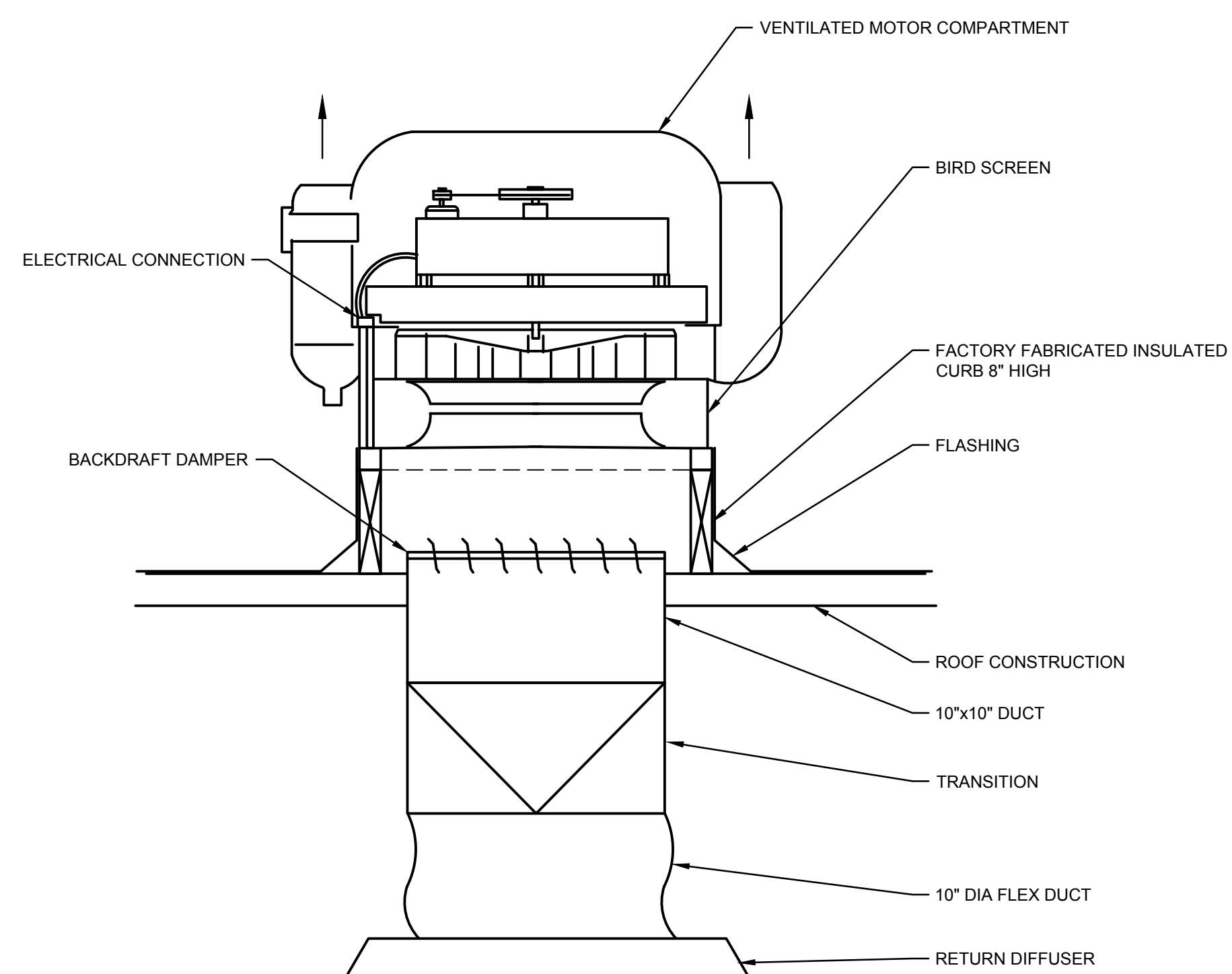


**PRODUCTION BUILDING -
DUCTLESS AIR CONDITIONER DETAIL**

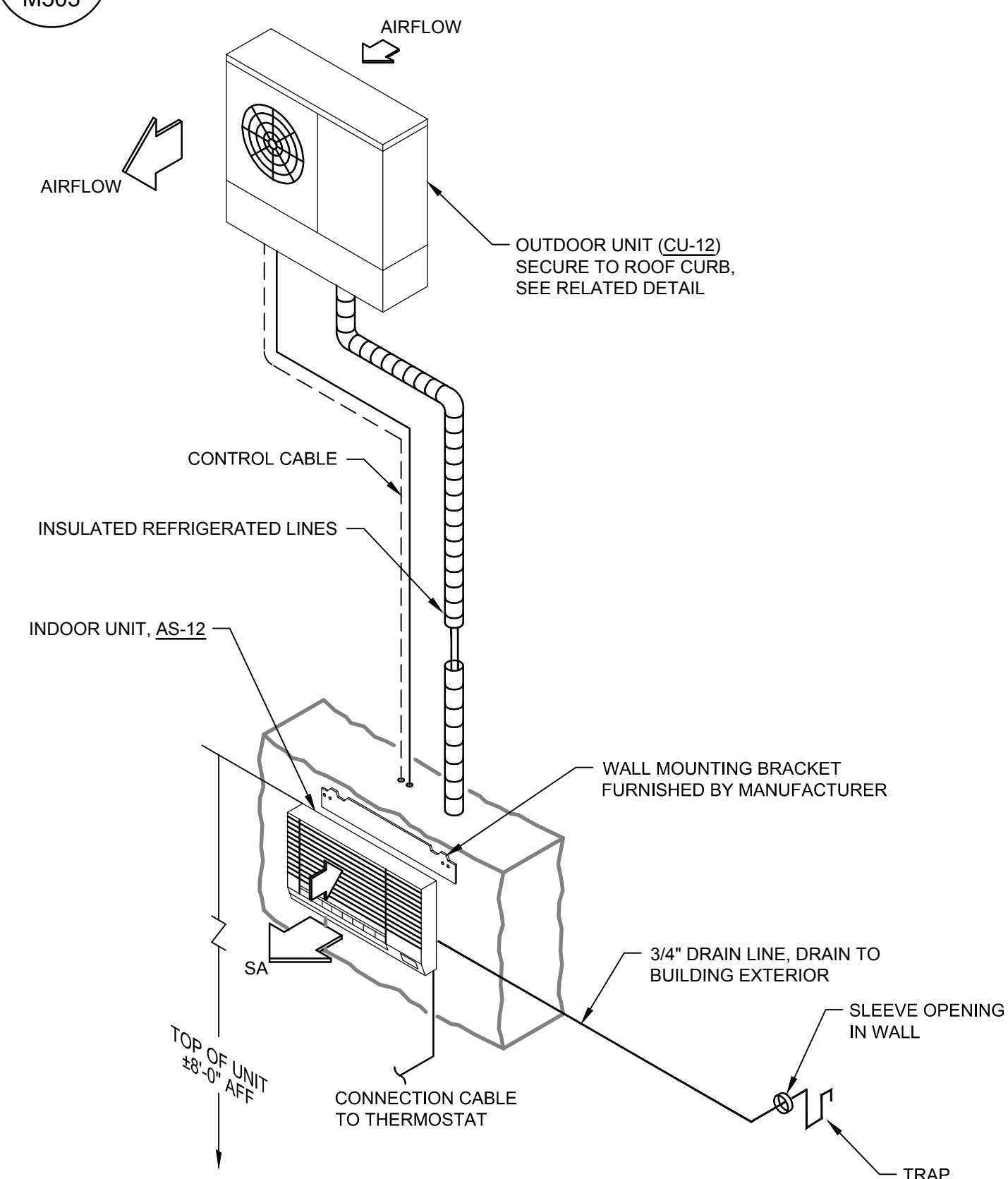
C4
M503 SCALE: NTS



A1 ROOF MOUNTED EXHAUST FAN DETAIL
M503 SCALE: NTS



EF-11



ADMINISTRATION BUILDING - DUCTLESS AIR CONDITIONER DETAIL

SCALE: NTS

[illegible]

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FILE NAME:		
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RS&H
115 ALMA BLVD, SUITE 101
MERRITT ISLAND, FL 32953

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TECHNOLOGIES
TITUSVILLE FL

MECHANICAL DETAILS

PLATE
REFERENCE
NUMBER
M503

A



1. THERMOSTATS TO HAVE SETBACK CONTROLS TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55° F OR UP TO 85° F.
2. AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS. THE MANUAL OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.
3. AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

[illegible]

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115 ALMA BLVD, SUITE 01 MERRITT ISLAND, FL 32953 757-622-1859 www.rsandh.com		DESH	03/03/2016
		LAST	03/03/2016
		REO	
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		FILE NAME:	
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EMBRAER AERO SEATING

TECHNOLOGIES

ITUSSVILLE, FL

MECHANICAL

CONTROL SCHEMATIC

PLATE
REFERENCE
NUMBER
M601

SPLIT SYSTEM SCHEDULE			
UNIT DESIGNATION	AS-1/CU-1	AS-2/CU-2	AS-12/CU-12
AREA SERVED	FACILITIES	ELECT ROOM	MDF
VOLTS/PHASE	208/230/1	208/230/1	208/230/1
FAN TOTAL AIRFLOW (CFM)	750	750	750
SEER	13.0	13.0	13.0
INDOOR UNIT:			
TOTAL COOLING CAPACITY (BTUH)	22,000	22,000	22,000
OUTDOOR UNIT:			
COMPRESSOR TYPE	ROTARY	ROTARY	ROTARY
IRA (A)	34.8	34.8	34.8
COMPRESSOR RLA (A)	9.7	9.7	9.7
BASIS OF DESIGN:			
MANUFACTURER	CARRIER	CARRIER	CARRIER
INDOOR UNIT MODEL NUMBER	40MV/C024-3-01	40MV/C024-3-01	40MV/C024-3-01
OUTDOOR UNIT MODEL NUMBER	38MV/C024-3-01	38MV/C024-3-01	38MV/C024-3-01
NOTES:			

AIR DISTRIBUTION DEVICE SCHEDULE				
TYPE	NECK DIA (INCHES)	FACE SIZE/DUCT SIZE (INCHES)	MANUFACTURER & MODEL NUMBER	ACCESSORIES
A	16	29 D/A	TITUS TMR-AA	
B	6	24X24	TITUS TMS-AA	A, B
	8	24X24	TITUS TMS-AA	A, B
	10	24X24	TITUS TMS-AA	A, B
	12	24X24	TITUS TMS-AA	A, B
C	NA	10 X 6	TITUS 300FL	A
D	NA	36 X 20	GREENHECK BR-32	
	NA	24 X 20	GREENHECK BR-32	
E	NA	24 X 24	TITUS 50F	C

ACCESSORIES:

- A. WITH OPTIONAL DAMPER.
- B. WITH MOLDED R-6 INSULATION BLANKET WITH FOIL BACKING.
- C. LAY-IN STYLE FOR 24 X 24 CEILING GRID.

GRAVITY RELIEF VENT SCHEDULE	
UNIT DESIGNATION	<u>GR-1</u>
BUILDING:	PROD
TYPE	HOODED GRAVITY RELIEF
THROAT SIZE	28" X 28"
HOOD SIZE	48" X 38"
DESIGN FLOWRATE	2500 CFM
DAMPER OPENING PRESSURE	0.01 IN WG
MATERIAL	GALVANIZED STEEL
BASIS OF DESIGN:	
MANUFACTURER	GREENHECK
VENT MODEL	FGR
DAMPER MODEL	WD-100-PB
CURB	GPF-G12
NOTES:	
1. INSTALL ON ROOF CURB. 2. MUST MEET MIAMI-DADE WIND RATING REQUIREMENTS. 3. INCLUDE GALVANIZED BIRD SCREEN AND ALUMINUM MESH INSECT SCREEN.	

PACKAGED ROOFTOP AIR CONDITIONER SCHEDULE										
UNIT DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-11	RTU-13	RTU-14	RTU-15
AREA SERVED	PRODUCTION BLDG OFFICE SPACE	PRODUCTION BLDG	PRODUCTION BLDG	PRODUCTION BLDG	PRODUCTION BLDG	PRODUCTION BLDG	ADMIN BLDG MULTI PURPOSE ROOM AND WARMING KITCHEN	ADMIN BLDG NORTHEAST SPACES	ADMIN BLDG SOUTHEAST SPACES	ADMIN BLDG OPEN OFFICE SPACE
FAN DATA:										
TOTAL SUPPLY AIR (CFM)	3750	4120	5400	5130	4275	5925	3955	1485	2900	4255
OUTSIDE AIR (CFM)	413	966	1641	1951	1507	1444	1003	182	538	530
EXT STATIC PRESSURE/TOTAL (IN H2O)	0.146/0.237	0.208/0.344	0.211/0.315	0.200/0.293	0.318/0.527	0.391/0.546	0.191/0.348	0.088/0.135	0.103/0.239	0.270/0.422
MOTOR HP	2.4	3.7	4.9	4.9	3.3	4.9	3.7	1.7	2.4	3.7
VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
COOLING COIL DATA:										
TOTAL CAPACITY (MBH)	85.8	131.1	188.3	205.7	164	200.1	146	44.3	98.8	116.8
SENSIBLE CAPACITY (MBH)	69.2	95.3	131.1	135	110	145.3	98	35	69.2	93.9
ENTERING AIR TEMP DB F/WB F	78.0/67.1	79.8/67.5	81.1/68.5	83.3/70.2	81.9/69.1	80.1/67.5	80.8/68.6	80.2/66.7	80.6/68.2	79.1/66.4
LEAVING AIR TEMP DB F/WB F	60.9/59.5	58.3/57.2	58.6/57.5	58.9/57.8	58.0/56.9	58.0/56.9	58.0/57.0	58.2/57.0	58.5/57.4	58.7/57.5
COOLING STAGES	2	2	2	2	2	2	2	1	2	2
MIN EER @ AHRI CONDITIONS	12.2	12.4	12.2	12.2	12.2	12.2	12.4	13	12.2	12
ELECTRIC HEAT:										
KW	12.8	24.3	23	23	23	23	15.2	5.5	12.8	12.8
BASIS OF DESIGN:										
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
SERIES	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER	WEATHERMASTER
SIZE (TONS)	7.5	12.5	17.5	17.5	15	17.5	12.5	4	8.5	10
MODEL NUMBER	50HC-D08	50HC-D14	50HC-D20	50HC-D20	50HC-D17	50HC-D20	50HC-D14	50HC-A05	50HC-D09	50HC-D11
NOTES:										
1. RTU'S TO BE CONSTANT AIR VOLUME SYSTEMS.										
2. RTU'S TO BE INSTALLED ON ROOF CURBS.										
3. RTU'S COILS SHALL BE COATED WITH ADSIL AD35 HVAC ANTI-CORROSION PROTECTION COATING. APPLY PER COATING MANUFACTURER'S RECOMMENDATIONS.										

EXHAUST FAN SCHEDULE											
UNIT DESIGNATION	EF-1	EF-2	EF-3	EF-4	EF-5	EF-11	EF-12	EF-13	EF-14	EF-15	EF-16
BUILDING, AREA SERVED:	PROD, COMP AIR	PROD, RESTROOM 110	PROD, RESTROOM 112	PROD, RESTROOM 107	PROD, JANITOR	ADMIN, WARMING KITCHEN	ADMIN, RESTROOM 208	ADMIN, RESTROOM 209	ADMIN, RESTROOM 220	ADMIN, RESTROOM 221	ADMIN, JANITOR
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
CAPACITY (CFM)	14,000	500	700	50	50	600	50	50	150	300	50
EXTERNAL STATIC PRESSURE (IN H2O)	0.125	0.25 @ 481 CFM	0.25 @ 658 CFM	0.25 @ 49 CFM	0.25 @ 49 CFM	0.125	0.25 @ 49 CFM	0.25 @ 49 CFM	0.25 @ 149 CFM	0.25 @ 306 CFM	0.25 @ 49 CFM
MOTOR:											
HORSEPOWER (WATTS)	5	(232)	(313)	(4.9)	(4.9)	1/10	(4.9)	(4.9)	{100}	(212)	(4.9)
VOLTS/PHASE	460/3	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1
DRIVE TYPE	BELT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
INTERLOCKS	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH
ACCESSORIES	A, C, D	C, D	C, D	C, D	C, D	A, C, D	C, D	C, D	C, D	C, D	C, D
BASIS OF DESIGN:											
MANUFACTURER	GREENHECK	BROAN	BROAN	BROAN	BROAN	GREENHECK	BROAN	BROAN	BROAN	BROAN	BROAN
MODEL NUMBER	CUBE 300-50	L500	L700	XB50	XB50	CUE 90-VG	XB50	XB50	L150	L300	XB50
ACCESSORIES: A. DISCONNECT SWITCH AT MOTOR LOCATION. B. DAMPER GUARD. C. INCLUDE BACKDRAFT DAMPER. D. INSULATED ROOF CURB OF SUFFICIENT HEIGHT TO PROVIDE A MIN OF 8" FROM FINISHED ROOF SURFACE TO TOP OF NAILER.											

[illegible]

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	TDG TITLE:		
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	SIZE D: 22"x34"		03/03/2016



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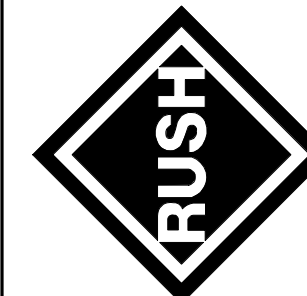
TECHNOLOGIES

TITUSSVILLE, FL

MECHANICAL

SCHEDULES

PLATE
REFERENCE
NUMBER
M701

[illegible]

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		DEVELOPER:	03/03/16	
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		LAS	REO	
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TECHNOLOGIES

TITUSVILLE, FL

PRODUCTION BLDG -

PLUMBING PLAN

PLATE
REFERENCE
NUMBER
P101

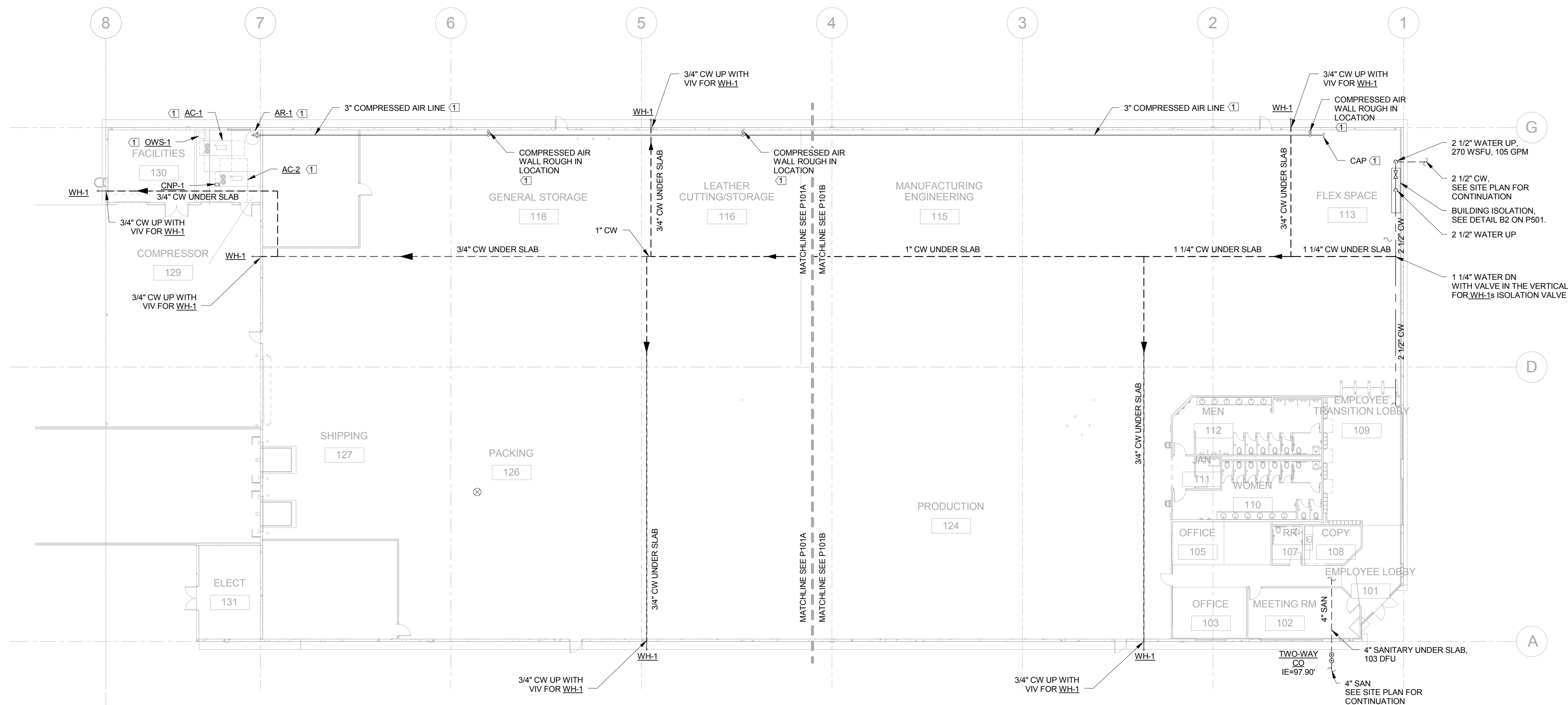
GENERAL NOTES:

1. REFER TO P001 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL PLUMBING NOTES.
2. REFER TO P600 SERIES FOR RISER DIAGRAMS.
3. REFER TO P701 & P702 FOR PLUMBING SCHEDULES.
4. UNDER SLAB CW PIPING FOR OUTSIDE WALL HYDRANTS SHALL BE SCHEDULE 40 GALVANIZED STEEL.
- 1 5. USE 3" DIA SMART PIPE TO RUN THE COMPRESSED AIR LINE. COMPRESSED AIR LINE SHALL BE ABOVE THE 17" CLEAR ZONE.
- 1 6. COMPRESSED AIR SYSTEM TO BE DESIGNED FOR 125 PSI OPERATING PRESSURE.

PLUMBING KEYED NOTES:

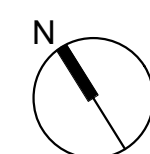
- 1 ALERNATE BID, NOT IN CONTRACT.

NOTE:
THE ELEVATION OF THE TOP OF THE FINISHED FLOOR SLAB SHALL BE 100.00' FOR THE PURPOSES OF FIGURING THE INVERT ELEVATION FOR THE SANITARY PIPES EXITING THE BUILDING.

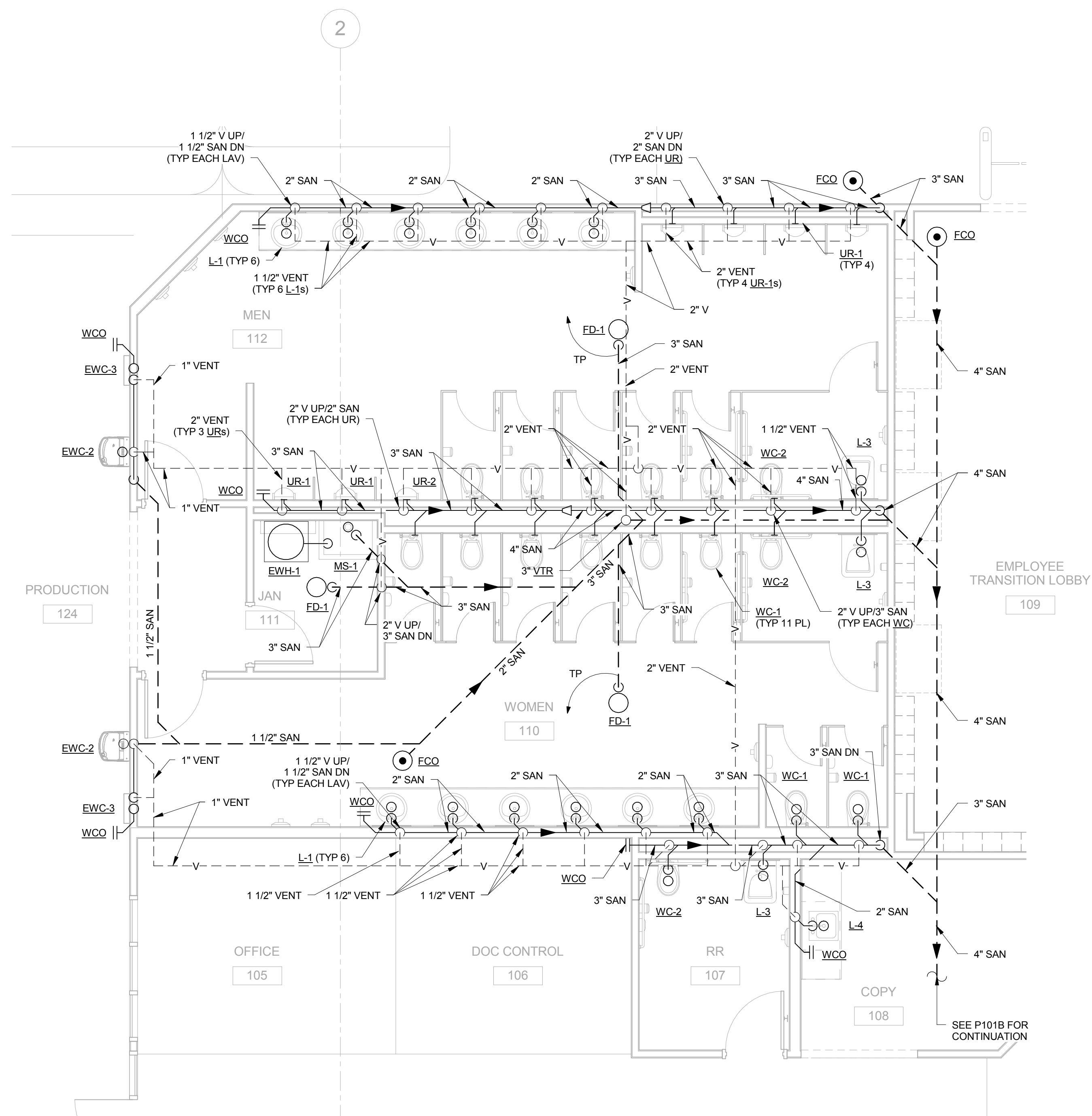


A1 PRODUCTION BUILDING PLUMBING PLAN

P101 SCALE: 1/16" = 1'-0"



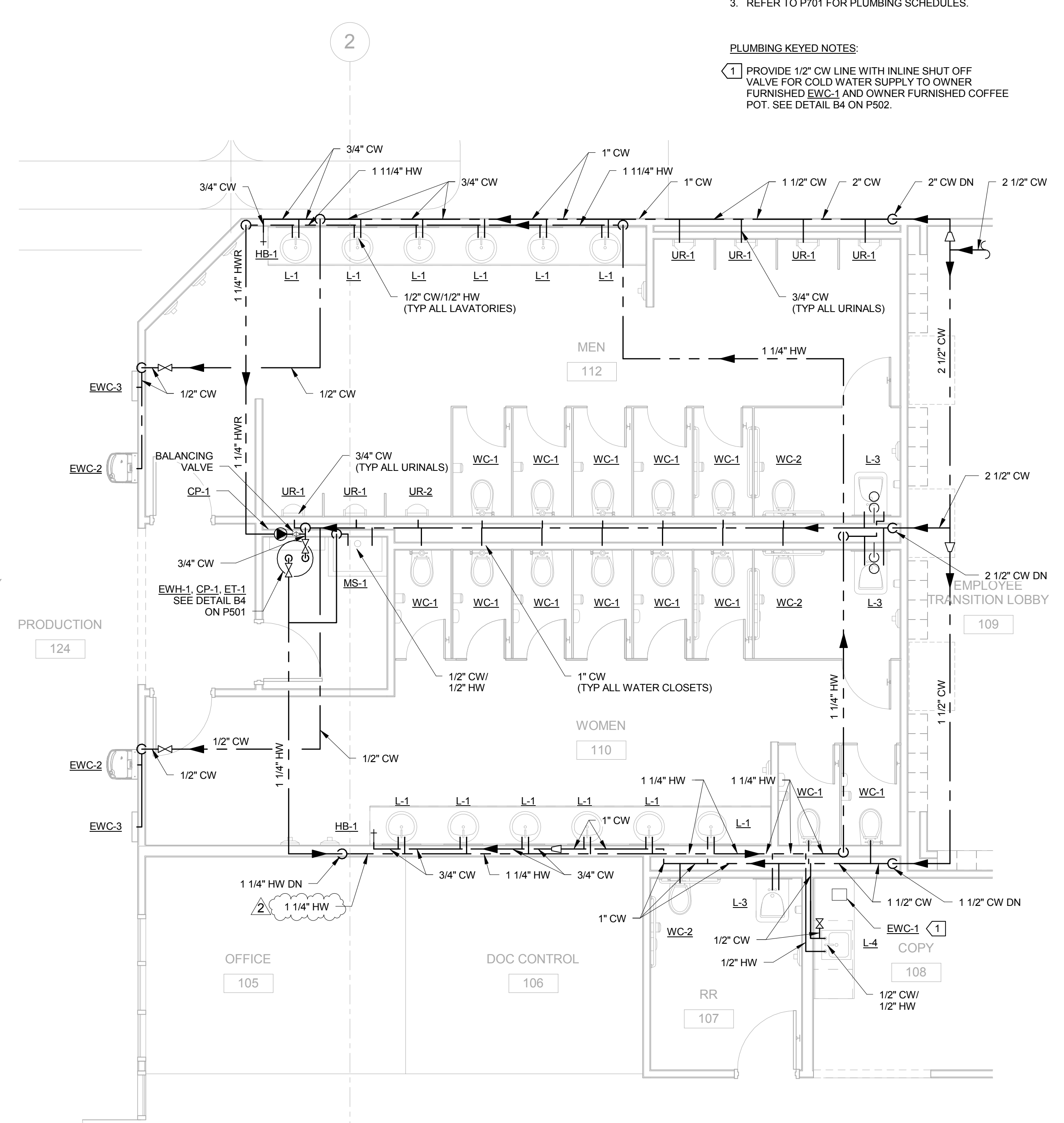
0 8' 16' 32'
SCALE: 1/16"=1'-0"



PRODUCTION BUILDING - EAST ZONE

A1	ENLARGED PLUMBING PLAN - SANITARY WASTE AND VENT
P401	SCALE: 1/4" = 1'-0"

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



PRODUCTION BUILDING - EAST ZONE

A3 ENLARGED PLUMBING PLAN - WATER

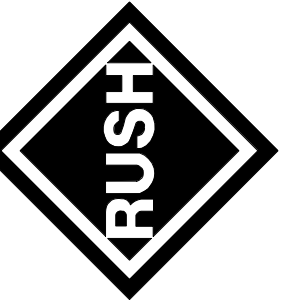
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO P001 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL PLUMBING NOTES.
2. REFER TO P600 SERIES FOR RISER DIAGRAMS.
3. REFER TO P701 FOR PLUMBING SCHEDULES.

PLUMBING KEYED NOTES:

- 1 PROVIDE 1/2" CW LINE WITH INLINE SHUT OFF VALVE FOR COLD WATER SUPPLY TO OWNER FURNISHED EWC-1 AND OWNER FURNISHED COFFEE POT. SEE DETAIL B4 ON P502.

[illegible]

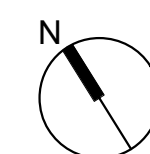
RS&H	
115 ALIMA BLVD, SUITE/01 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com	
DEH	03/03/16
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LAS	REO
UNLIMITED BY:	
TDS	
FILE NAME:	
SIZE: D	PLOT SCALE:
22"x34"	
PLOT DATE:	03/03/16



**DAVID AERO GLASSING
TECHNOLOGIES
TITUSVILLE, FL**

DESIGNED PLUMBING PLANS

PLATE
REFERENCE
NUMBER
9401



0 4' 8' 16'

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

P501 SCALE: NTS

P501 SCALE: NTS

P501 SCALE: NTS

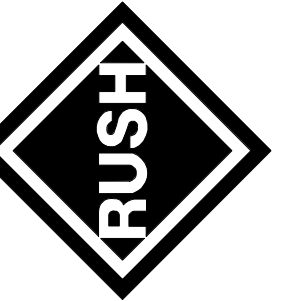
P501 SCALE: NTS

P501 SCALE: NTS

P501 SCALE: NTS

P501 SCALE: 1/2" = 1'-0"

P501 SCALE: NTS

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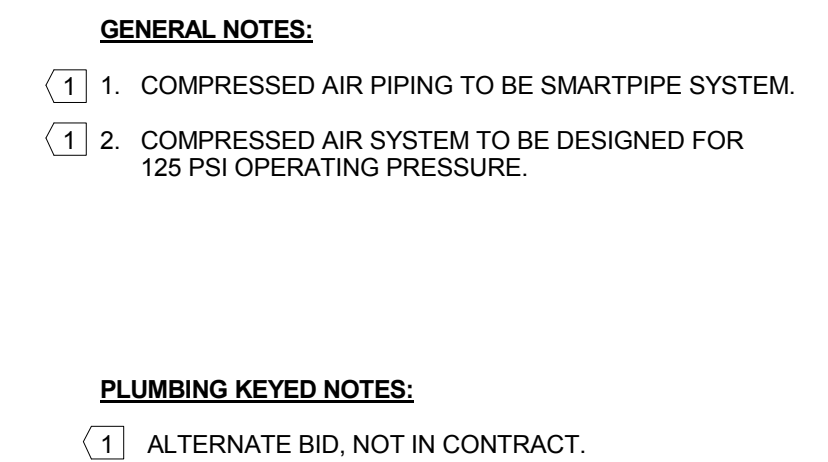
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DRAWN BY:	CKD BY:		
LAS	REO		
SHEET 1 OF 1			
TITLED BY:			
TDG			
FILE NAME:			
SIZE: D	PLOT SCALE:	PLOT DATE:	
12" X 48"		03/03/16	


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TECHNOLOGIES
 TITUSVILLE, FL

PLUMBING DETAILS

PLATE
REFERENCE
NUMBER
P501

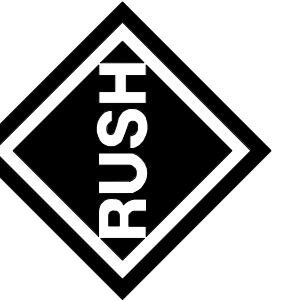


COMPRESSED AIR ROUTING -
NOT IN CONTRACT

B2

P502

SCALE: NTS

[illegible]

RS&H		Designer	03/03/16
115 ALMA BLVD. SUITE 101		DWN BY: Checker	
MIAMI BEACH, FL 33153		CHK BY:	
321 453-8212 WWW.RS&H.COM		APPROVED BY: Approver	
		FILE NAME:	
SIZE: D	PLOT SCALE:	PLOT DATE: 03/03/16	
42" X 44"			

EMBRAER **PLUMBING DETAILS**
 TECHNOLOGIES
 TITUSVILLE, FL

PLATE
REFERENCE
NUMBER
P502



PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE SCHEDULE						
MARK	PLUMBING FIXTURE	ROUGH-IN SIZES (INCHES)				DESCRIPTION OF FIXTURE AND ACCESSORIES
		COLD WATER	HOT WATER	VENT	SAN	
<u>WC-1</u>	WATER CLOSET, WALL MOUNTED	1"	-	2"	4"	SLOAN MODEL NO. WETS 2450 1320-1 28 ESS TMO, 1.28 GPF, WALL HUNG, VITREOUS CHINA, ELONGATED BOWL WITH QUIET, EXPOSED, DIAPHRAGM TYPE, HET FLUSHOMETER WITH OPTIMA POWERED INFRARED SENSOR FOR AUTOMATIC "NO HANDS" OPERATION, FLUSHOMETER TRANSFORMER EL-154 (PROVIDES POWER FOR UP TO TEN FLUSHOMETERS), 25psi, 18 GPM MINIMUM FLOW RATE, 80 PSI STATIC PRESSURE REQUIRED AT FLUSHOMETER. TOILET REQUIRES WADE SERIES 300 CARRIER. BEMIS HEAVY DUTY SEAT MODEL NO. 1955CT OPEN FRONT, LESS COVER
<u>WC-2</u>	WATER CLOSET, WALL MOUNTED, ADA COMPLIANT	1"	-	2"	4"	SLOAN MODEL NO. WETS 2450 1320-1 28 ESS TMO, 1.28 GPF, WALL HUNG, VITREOUS CHINA, ELONGATED BOWL WITH QUIET, EXPOSED, DIAPHRAGM TYPE, HET FLUSHOMETER WITH OPTIMA POWERED INFRARED SENSOR FOR AUTOMATIC "NO HANDS" OPERATION, FLUSHOMETER TRANSFORMER EL-154 (PROVIDES POWER FOR UP TO TEN FLUSHOMETERS), 25psi, 18 GPM MINIMUM FLOW RATE, 80 PSI STATIC PRESSURE REQUIRED AT FLUSHOMETER. TOILET REQUIRES WADE SERIES 300 CARRIER. BEMIS HEAVY DUTY SEAT MODEL NO. 1955CT OPEN FRONT, LESS COVER
<u>U-1</u>	URINAL, WALL MOUNTED	3/4"	-	2"	2"	SLOAN MODEL NO. WEUS-1000 1332, WALL MOUNTED STANDARD URINAL, 125 GPF, VITREOUS CHINA, WITH OPTIMA POWERED INFRARED SENSOR FOR AUTOMATIC "NO HANDS" OPERATION, FLUSHOMETER TRANSFORMER EL-154 (PROVIDES POWER FOR UP TO TEN FLUSHOMETERS), 25psi, 18 GPM MINIMUM FLOW RATE, 80 PSI STATIC PRESSURE REQUIRED AT FLUSHOMETER. URINAL REQUIRES WADE SERIES 400 CARRIER.
<u>U-2</u>	URINAL, WALL MOUNTED, ADA COMPLIANT	3/4"	-	2"	2"	SLOAN MODEL NO. WEUS-1000 1332, WALL MOUNTED STANDARD URINAL, 125 GPF, VITREOUS CHINA, WITH OPTIMA POWERED INFRARED SENSOR FOR AUTOMATIC "NO HANDS" OPERATION, FLUSHOMETER TRANSFORMER EL-154 (PROVIDES POWER FOR UP TO TEN FLUSHOMETERS), 25psi, 18 GPM MINIMUM FLOW RATE, 80 PSI STATIC PRESSURE REQUIRED AT FLUSHOMETER. URINAL REQUIRES WADE SERIES 400 CARRIER.
<u>L-1</u>	LAVATORY, UNDERMOUNT, ADA COMPLIANT	1/2"	1/2"	1 1/2"	1 1/2"	SLOAN MODEL NO. SS-3001, OVAL UNDERMOUNT LAVATORY, 16 1/2" X 19 1/2", VITREOUS CHINA, WITH OVERFLOW, PROFLO MODEL NO. PF6GD GRID DRAIN, CHROME PLATED, OPEN GRID, WITH 1 1/4" DIAMETER X 6" LONG TAILPIECE PROFLO MODEL NO. PFPTB400, 1 1/4" X 1 1/4" WITH CAST BODY, ADJUSTABLE TUBULAR P-TRAP WITH PROFLO MODEL NO. PF200 SOFT PLASTIC TRAP COVER FAUCET: SLOAN OPTIMA SYSTEM ETF-80-LT, 5 GPM, SENSOR OPERATED ELECTRONIC HANDWASHING FAUCET FOR TEMPERED OR HOT/COLD WATER OPERATION, SINGLE HOLE MOUNTED IN COUNTERTOP. WILKINS MODEL NO. ZW3870XLT AQUA-GARD MIXING VALVE, 3/8" BELOW DECK REQUIRES (1) SLOAN EL-208 TRANSFORMER PER BANK OF 6 SINKS (2) MCGUIRE MANUFACTURING CO MODEL NO. LFBV2165CC QUARTER TURN ANGLE STOP VALVES PER FAUCET.
<u>L-3</u>	LAVATORY, WALL MOUNTED, ADA COMPLIANT	1/2"	1/2"	1 1/2"	1 1/2"	SLOAN MODEL NO. SS-3804, WALL MOUNTED LAVATORY, 20" X 27", VITREOUS CHINA, WITH OVERFLOW. PROFLO MODEL NO. PF6GD GRID DRAIN, CHROME PLATED, OPEN GRID, WITH 1 1/4" DIAMETER X 6" LONG TAILPIECE PROFLO MODEL NO. PFPTB400, 1 1/4" X 1 1/4" WITH CAST BODY, ADJUSTABLE TUBULAR P-TRAP WITH PROFLO MODEL NO. PF200 SOFT PLASTIC TRAP COVER FAUCET: SLOAN OPTIMA SYSTEM ETF-80-LT-8, 5 GPM, SENSOR OPERATED ELECTRONIC HANDWASHING FAUCET FOR TEMPERED OR HOT/COLD WATER OPERATION, MOUNTED WITH 8" OC TRIM PLATE WILKINS MODEL NO. ZW3870XLT AQUA-GARD MIXING VALVE, 3/8" BELOW DECK REQUIRES (1) SLOAN EL-342 TRANSFORMER PER 2 BACK TO BACK MOUNTED WALL LAVATORIES (2) MCGUIRE MANUFACTURING CO MODEL NO. LFBV2165CC QUARTER TURN ANGLE STOP VALVES PER FAUCET. PROVIDE TRUBRO EZ INSULATION FOR EXPOSED PIPES UNDER SINK
<u>L-4</u>	SINK, UNDERMOUNT, ADA COMPLIANT	1/2"	1/2"	1 1/2"	1 1/2"	ELKAY MODEL NO. ELUHAD1616, UNDERMOUNT SINK, 18 1/2" X 18 1/2", 5" DEEP, #18 GAUGE, TYPE 304 STAINLESS STEEL, SATIN FINISH, UNDERSIDE PROTECTED SOUND GUARD COATING, 3 1/2" DRAIN HOLE PROFLO MODEL NO. PF1432SS STAINLESS STEEL BASKET STRAINER PROFLO MODEL NO. PFPTB180200 SERIES, TAIL PIECE FAUCET: SLOAN OPTIMA SYSTEM ETF-700-LT WITH ETF-801 SPRAY HEAD, 5 GPM, SENSOR OPERATED ELECTRONIC GOOSENECK FAUCET FOR TEMPERED OR HOT/COLD WATER OPERATION, MOUNTED ON COUNTERTOP, NO TRIM PLATE WILKINS MODEL NO. ZW3870XLT AQUA-GARD MIXING VALVE, 3/8" BELOW DECK REQUIRES (1) SLOAN EL-248-40 TRANSFORMER AND (2) MCGUIRE MANUFACTURING CO MODEL NO. LFBV2165CC QUARTER TURN ANGLE STOP VALVES PER FAUCET.
<u>MS-1</u>	MOP SINK	1/2"	1/2"	2"	3"	PROFLO MODEL NO. PFMB3624S, MOP BASIN, 24" X 36", 12" DEEP, MOLDED HIGH DENSITY COMPOSITE BASIN WITH MODEL NO. PFWGC36S STAINLESS STEEL WALL GUARDS AND REMOVABLE STAINLESS STEEL COMBINATION DOME STRAINER AND LINT BASKET FAUCET: T & S BRASS AND BRONZE WORKS MODEL NO. B-0665-BSTR, SERVICE SINK FAUCET WITH ROUGH CHROME FINISH, SERVICE STOPS, VACUUM BREAKER, LEVER HANDLES, WALL BRACE AND 3/4" GARDEN HOSE OUTLET
<u>SK-1</u>	KITCHEN HAND WASH SINK	1/2"	1/2"	1 1/2"	2"	ELKAY MODEL NO. CHSB17162, SINGLE COMPARTMENT, STAINLESS STEEL, HAND WASH UP SINK, BASIN HAS 1 3/4" RADIUS COVED CORNERS, WITH FULL LENGTH 7" HIGH BACKSPASH, BRUSHED FINISH, FURNISHED WITH A WALL HANGER. THIS MODEL DOES NOT INCLUDE THE FAUCET. FAUCET: CHICAGO FAUCET MODEL NO. W4W-G2635-369AB, 1.5 GPM, WASH BOARD SINK FAUCET, WALL MOUNTED ON 4" CENTERS, 5 1/4" WING/RIGID GOOSENECK SPOUT, 2 3/8" LEVER HANDLES. BASKET STRAINER: PROFLO MODEL NO. PF1432SS, STAINLESS STEEL, DEEP CUP, BASKET STRAINER. P-TRAP: PROFLO MODEL NO. PFPTB403, 1 1/2" X 1 1/2" WITH CST BODY AND CLEAN OUT
<u>SK-2</u>	TRIPLE COMPARTMENT SINK	1/2"	1/2"	2"	3"	ADVANCE TABCO REGALINE SINK MODEL NO. 93-63-54-18RL, 3 COMPARTMENT POT AND PAN SINK, STAINLESS STEEL, WITH ONE PIECE 18" DEEP DRAWN SINK BOWLS, OVERALL LENGTH 18" INCLUDING 18" DRAINBOARDS ON EACH SIDE, BACK MOUNTED FAUCET HOLES ARE 8" O C, WASTE DRAINS (INCLUDED) ARE 1 1/2" STAINLESS STEEL BASKET TYPE LOCATED IN THE CENTER OF EACH BOWL FAUCET: ELKAY MODEL NO. LK943AF08C, WALL MOUNT PRE-RINSE COMMERCIAL FAUCET, 8" OC, 2 HOLE, DUAL HANDLE WALL MOUNT
<u>EW-C-1</u>	ELECTRIC RO WATER DISPENSER, OWNER FURNISHED	3/8"	-	-	-	ION MODEL NO. 900 SERIES, COUNTERTOP MODEL, ELECTRIC REVERSE OSMOSIS WATER MACHINE 9 INCH DISPENSING HEIGHT, WATER PRESSURE REQUIRED IS 35-85 PSI, 120 VAC, 60HZ ELECTRICAL REQUIRED
<u>EW-C-2</u>	ELECTRIC WATER COOLER & BOTTLE FILLER ADA COMPLIANT	3/8"	-	1"	1 1/4"	ELKAY EZH2O BOTTLE FILLING STATION WITH FILTERED SINGLE L2 COOLER, MODEL NO. LZWSSM, ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH 20 SECOND SHUT OFF TIMER, FLEXIGARD SAFETY BUBBLER, INCLUDES A GREEN TICKER DISPLAY COUNT OF HOW MANY PLASTIC BOTTLES ARE SAVED FROM WASTE ELECTRICAL POWER REQUIREMENTS ARE 115V/60 HZ, 5.0 F.L. AMPS, INSTALLATION SHALL USE GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
<u>EW-C-3</u>	ELECTRIC BOTTLE FILLER	3/8"	-	1"	1 1/4"	ELKAY SURFACE MOUNT BOTTLE FILLING STATION MODEL NO. LZWSSM, ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH 20 SECOND SHUT OFF TIMER, INCLUDES A GREEN TICKER DISPLAY COUNT OF HOW MANY PLASTIC BOTTLES ARE SAVED FROM WASTE ELECTRICAL POWER REQUIREMENTS ARE 115V/60 HZ, 1.0 F.L. AMPS, INSTALLATION SHALL USE GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
<u>IM</u>	ICE CUBE MAKER	3/8"	-	SEE DESCRIPTION		MANITOWAC INDIGO SERIES 500 ICE CUBE MACHINE MODEL NO. IY-0504A, AIR COOLED, HALF DICE ICE SHAPE, 30 IN WIDE X 71 1/2" TALL X 34" DEEP, 560 LBS ICE/DAY, 19.9 GALLONS OF WATER FOR EVERY 100 LBS OF ICE PRODUCED. 3 DRAINS ARE REQUIRED: 1/2" DIA ICE MAKING WATER DRAIN, 1/2" DIA AUXILIARY BASE DRAIN, 3/4" DIA BIN DRAIN, ROUTE ALL THREE DRAINS TO FD-1 UNDER ICE MACHINE ELECTRICAL: REQUIRES 208V, 60HZ, SINGLE PHASE ELECTRICAL POWER, ENERGY STAR RATED,
<u>HB-1</u>	RESTROOM HOSE BIBB	3/4"	-	-	-	WOODFORD MODEL NO. 65, ANTI-SIPHON, FREEZELESS WALL HYDRANT, STANDARD CHROME FINISH, FOR 7 1/4" THICK INTERIOR RESTROOM WALL, EP INLET-3/4" MALE PIPE THREAD WITH UNION ELBOW, LOOSE KEY OPERATION
<u>WH-1</u>	EXTERIOR WALL HYDRANT	3/4"	-	-	-	WOODFORD MODEL NO. RB65, ANTI-SIPHON, FREEZELESS WALL HYDRANT IN TAMPER RESISTANT 6" ROUND BOX, STANDARD CHROME FINISH, DESIGNED ESPECIALLY FOR TILT WALL CONSTRUCTION, EP INLET-3/4" MALE PIPE THREAD WITH UNION ELBOW
<u>FD-1</u>	FLOOR DRAIN	-	-	2	4	WADE MODEL NO. 1000-S-EF4-TSD, PAINTED CAST IRON FLOOR DRAIN WITH ADJUSTABLE SQUARE TOP - SLOTTED GRATE, WITH TRAP SEAL DEVICE (MODEL 4405), SATIN FINISH NICKLE BRONZE TOP, BOTTOM OUTLET
<u>FS-1</u>	FLOOR SINK	-	-	-	4	WADE MODEL NO. 9150-1EF6-TSD 12" SQUARE FLOOR SINK, 10" DEPTH, WHITE A. R. C. INTERIOR COMPLETE WITH INTERIOR PLASTIC DOME STRAINER, SATIN FINISH NICKEL BRONZE TOP AND 6" FUNNEL ASSEMBLY, BOTTOM OUTLET

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	MODEL	STORAGE CAPACITY (GAL)	RECOVERY	EWT (°F)	LWT (°F)	TEMP RISE (°F)	ELEMENT KW	ELECTICAL (V/PH/Hz)	NOTES
<u>EWH-1</u>	PRODUCTION BLDG JANITORS CLOSET	A O SMITH DEL-30	30	20 GPH	60	120	60	4.5	208/3/60	1
<u>EWH-2</u>	ADMIN BLDG JANITORS CLOSET	A O SMITH DEL-50	50	30 GPH	60	120	60	4.5	208/3/60	1

NOTES:

1. ALTERNATIVE MANUFACTURERS OFFERING EQUIVALENT PRODUCTS ARE ACCEPTABLE IF IN COMPLIANCE WITH THE DRAWINGS.
2. EXPANSION TANK REQUIRED. SEE EXPANSION TANK SCHEDULE BELOW.
3. HW CIRCULATING PUMP REQUIRED. SEE HOT WATER CIRCULATING PUMP SCHEDULE BELOW.

WATER HAMMER ARRESTER SCHEDULE

MARK	P.D.I. RATING	FIXTURE UNITS CAPACITY	MINIMUM PIPE SIZE	NOTES
<u>WA</u>	A	1 - 11	3/4"	1
<u>WB</u>	B	12 - 32	1"	1
<u>WC</u>	C	33 - 60	1"	1
<u>WD</u>	D	61 - 113	1"	1

NOTES

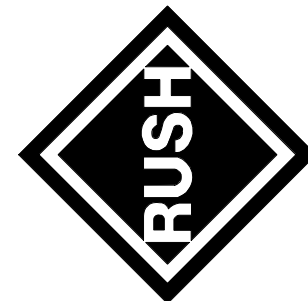
1. PROVIDE ARRESTERS ETC., AS NOTED HEREIN AND PER STANDARD PDI WH201 AT EACH FIXTURE GROUP AND INDIVIDUAL FIXTURE. INSTALL ARRESTERS WHERE SHOWN, IF INDICATED. ARRESTERS MAY NOT BE GRAPHICALLY INDICATED. INSTALL ARRESTERS, ETC., CONCEALED BEHIND WALLS UNLESS OTHERWISE NOTED.

EXPANSION TANK SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL NO.	TANK VOLUME (GAL)	MAX. ACCEPTANCE VOLUME (GAL)	DIMENSIONS	SYSTEM CONNECTION
ET-1	PRODUCTION BLDG EWH-1 JANITORS CLOSET	AMTROL	ST-5-C	2.0	0.9	8" DIA. X 13" V	3/4 NPTM
ET-2	ADMINISTRATION BLDG EWH-2 JANITORS CLOSET	AMTROL	ST-5-C	2.0	0.9	8" DIA X 13" V	3/4 NPTM

HOT WATER CIRCULATION PUMP SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL NO.	ELECTRICAL
<u>CP-1</u>	PRODUCTION BLDG EWH-1 JANITORS CLOSET	GRUNDFOS	MAGNA 1 32-100 F	115-230V/60HZ/1PH
<u>CP-2</u>	ADMINISTRATION BLDG EWH-2 JANITORS CLOSET	GRUNDFOS	MAGNA 1 32-100 F	115-230V/60HZ/1PH

[illegible]

RS&H		DESIGNED BY:	LAS	DATE:	03/03/16
		DRAWN BY:	LAS	CKD BY:	Checker
		SCALE:	SHEET NO. BY:		
		FILE NAME:	Approver		
SIZE: D	PLOT SCALE:			PLOT DATE:	



**RAER AERO SEATING
TECHNOLOGIES
TITUSVILLE FL**

PLUMBING SCHEDULES

PLATE
REFERENCE
NUMBER
P701

D

C

B

A

OIL/WATER SEPARATOR SCHEDULE - ALTERNATE BID, NOT IN CONTRACT	
UNIT DESIGNATION	<u>OWS-1</u>
BUILDING:	PROD
DIMENSIONS, W X D X H (INCHES)	20.5 X 22.6 X 44.1
MAX OPERATING INLET PRESSURE	232 PSIG
CAPACITIES:	
MINERAL OIL/TURBINE OIL (SCFM)	900
DIESTERS PAO (SCFM)	600
POLYGLYCOL (SCFM)	450
BASIS OF DESIGN:	
MANUFACTURER	KAESER
MODEL	KCF 200

AIR RECEIVER SCHEDULE - ALTERNATE BID, NOT IN CONTRACT	
UNIT DESIGNATION	AR-1
BUILDING:	PROD
TYPE	VERTICAL
SIZE (GALLONS)	660
DIMENSIONS, DIA X LENGTH (INCHES)	42 X 117
MAX ALLOWABLE WORKING PRESSURE	165 PSI @ 450 DEG F
MATERIAL	STEEL
BASIS OF DESIGN:	
MANUFACTURER	MANCHESTER TANK
NOTES:	
1. MUST MEET ASME SECT VIII DIV 1 CODE.	

CONDENSATE PUMP - ALTERNATE BID, NOT IN CONTRACT	
UNIT DESIGNATION	<u>CNP-1</u>
BUILDING:	PROD
DIMENSIONS, W X D X H (INCHES)	10.2 X 4.8 X 6.5
CAPACITY (GPH @ FT HEAD)	60 @ 10
MOTOR:	
VOLTS	115
WATTS	93
BASIS OF DESIGN:	
MANUFACTURER	LITTLE GIANT
ITEM NUMBER	VCMX-20ULS
MODEL	554530
NOTES:	
1. INCLUDES 3/8" CHECK VALVE	
2. INCLUDES SAFETY SWITCH FOR FUTURE USE	

SUMP PUMP	
UNIT DESIGNATION	<u>SP-1</u>
BUILDING:	PROD
DIMENSIONS, W X D X H (INCHES)	12.9 X 10.4 X 19.3
CAPACITY (GPH @ FT HEAD)	100 @ 17.5
MOTOR:	
VOLTS	230
AMPS	7.5
PHASE	1
HP	0.5
BASIS OF DESIGN:	
MANUFACTURER	ZOELLER
ITEM NUMBER	292-0003
NOTES:	
1. INCLUDE AUTOMATIC FLOAT SWITCH	
2. INCLUDE A-PAK ALARM SYSTEM, ZOELLER 10-0126	
3. 2" FNPT DISCHARGE	

AIR COMPRESSOR SCHEDULE - ALTERNATE BID, NOT IN CONTRACT		
UNIT DESIGNATION	<u>AC-1</u>	<u>AC-2</u>
BUILDING:	PROD	PROD
TYPE	ROTARY SCREW	ROTARY SCREW
MAXIMUM FLOW	224 CFM @ 125 PSI	224 CFM @ 125 PSI
MINIMUM FLOW	54 CFM @ 125 PSI	54 CFM @ 125 PSI
HORSEPOWER	50	50
VOLTS/PHASE	460/3	460/3
DRIVE TYPE	DIRECT	DIRECT
NOISE LEVEL (DBA)	71	71
ACCESSORIES	A	A
BASIS OF DESIGN:		
MANUFACTURER	KAESER	KAESER
MODEL NUMBER	SFC-37T	SFC-37T
ACCESSORIES:		
A. INTEGRATED 38 DEGREE PDP DRYER.		

[illegible]

<i>RS&H</i>	DESIGNED BY:		DATE:	
	DEH		03/03/2016	
	DRAWN BY:	CHECK BY:		
	SUBMITTED BY:	REO		
	TDG			
	FILE NAME:			
115 ALMA BLVD., SUITE 01 MAYAGUEZ, PUERTO RICO 00849 757-652-1859 www.rsandh.com		SIZE: D	PLOT SCALE:	PLOT DATE:
		22"x34"		03/03/2016

EMBRAER **EMBRAER AERO SEATING**
TECHNOLOGIES
TULSAVILLE, FL

PLATE
REFERENCE
NUMBER
P702

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ABBREVIATIONS

ACP	ACCESS CONTROL PANEL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERAGE INTERRUPTING CAPACITIES
BLDG	BUILDING
C	CONDUIT
CCTV	CLOSE CIRCUIT TELEVISION
CFP	CUSTOMER FACE PLATE
CKT	CIRCUIT
COMM	COMMUNICATION
FACP	FIRE ALARM CONTROL PANEL
GEN	GENERATOR OR GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HOR	HAND-OFF-REMOTE
HP	HORSE POWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IAW	IN ACCORDANCE WITH
IDS	INTRUSION DETECTION SYSTEM
IGBT	INSULATED GATE BI-POLAR TRANSISTOR
LC	LIGHTING CONTACTOR
LED	LIGHT EMITTING DIODE
LGTS	LIGHTS
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MLO	MAIN LUG ONLY
MP	MECHANICAL PANEL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PM	POWER MONITOR
POE	POWER OVER ETHERNET
PPE	PERSONAL PROTECTIVE EQUIPMENT
RCP	RECEPTACLE PANEL
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
ROHS	RESTRICTION OF HAZARDOUS SUBSTANCES
SP	SYSTEMS PANEL
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SWGR	SWITCHGEAR
TC	TRAY CABLE
THD	TOTAL HARMONIC DISTORTION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UFC	UNIFIED FACILITIES CRITERIA
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHER PROOF

SYMBOLS LEGEND

	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R
	QUAD RECEPTACLE, 120V, 20A, NEMA 5-20R
	QUAD RECEPTACLE, 120V, 20A, NEMA 5-20R. RECEPTACLE ON UPS CIRCUIT TO HAVE ORANGE YOKE
	POLE MOUNTED AREA LIGHTING (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE; NUMBER REPRESENTS CIRCUITING)
	SURFACE MOUNTED AREA LIGHTING ON STRUCTURE (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE; NUMBER REPRESENTS CIRCUITING)
	EXIT LIGHT, WALL MOUNTED, DIRECTION AS INDICATED, WIRE AHEAD OF SWITCHES UON (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	EXIT LIGHT, CEILING MOUNTED, DIRECTION AS INDICATED, WIRE AHEAD OF SWITCHES UON (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	DIRECTIONAL FLOODLIGHTING (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	LINEAR LED LIGHTING (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	LINEAR LED LIGHTING WITH EMERGENCY DRIVER, WIRE AHEAD OF SWITCHES UON (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	HIGH BAY LED LIGHTING, (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	HIGH BAY LED LIGHTING WITH EMERGENCY DRIVER, (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	LED 2'X2' RECESSED LIGHTING, (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	LED 2'X2' RECESSED LIGHTING WITH EMERGENCY DRIVER, (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	DOCK LIGHT, GREEN
	DOCK LIGHT, RED
	TIME DELAY SWITCH
	WALL OCCUPANCY SENSOR
	CEILING OCCUPANCY SENSOR
	EXOTHERMIC WELD CONNECTION
	CONDUIT RUN UP
	CONDUIT RUN DOWN
	CONDUIT STUBBED UP (6" AFF AND CAPPED, UON)
	LADDER CABLE TRAY (HORIZONTAL)
	LADDER CABLE TRAY (VERTICAL)
	BOLLARD LIGHT, (X = FIXTURE TYPE, REFERENCE LIGHTING SCHEDULE)
	FACADE ILLUMINATION FIXTURE, LED, AT GRADE

CIRCUITING LEGEND

	2 SETS - (3)#500,(1)#500N,(1)#4G
	3" RGS C
	EACH SET OF CONDUCTORS INSTALLED IN A 3" RGS C
	MULTICONDUCTOR CABLE MADE UP OF 4 #500 AND A #4 GROUND CONDUCTOR.
	ROUTED IN CABLE TRAY
	HOMERUN TO PANEL MDP CIRCUITS 1, 3 AND 5, SIZED AS INDICATED IN PANEL SCHEDULE.

GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, AND OTHER ENCLOSURES OF ELECTRICAL EQUIPMENT, REQUIRING ACCESS FOR MAINTENANCE, TESTING, AND/OR TROUBLESHOOTING, SHALL BE LABELED WITH ARC FLASH WARNING LABELS. ARC FLASH CALCULATIONS SHALL BE PERFORMED FOR EACH OF THE ITEMS LISTED ABOVE. ARC FLASH LABELING SHALL IDENTIFY PROPER PPE AND CLEARANCES REQUIRED AND BE AFFIXED TO THE EQUIPMENT IAW THE LATEST EDITION OF NFPA 70E.
- CONSTRUCTION OF THE ELECTRICAL SYSTEMS SHALL BE PERFORMED IAW ALL LOCAL AND NATIONAL CODES, INCLUDING THE LATEST EDITIONS OF, BUT NOT LIMITED TO NFPA 70, NFPA 70E, NFPA 780 AND NFPA 497.
- ALL ELECTRICAL DISCONNECTS, BREAKERS, OR ANY OTHER MEANS OF ISOLATING POWER SOURCES FROM THEIR LOADS, SHALL BE CAPABLE OF BEING LOCKED WITH A PADLOCK. ITEMS SUCH AS BREAKER HANDLES UNABLE TO BE LOCKED DIRECTLY SHALL BE MANUFACTURED AND INSTALLED IN A MANNER IN WHICH AN OSHA APPROVED LOCKOUT/TAGOUT LOCKING MECHANISM IN CONJUNCTION WITH A PADLOCK WILL RENDER THEM INOPERATIVE.
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DATE: 03/03/16

DESIGNED BY: KLH

DWN BY: JAM

CHK BY: DJV

FILE NAME: TDG

SIZE D: 14.7x4

PLOT DATE: 03/03/16

PLOT SCALE: 1"=4'

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PLATE REFERENCE NUMBER

E-001

1

2

3

4

5

ABBREVIATIONS

ACP	ACCESS CONTROL PANEL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERAGE INTERRUPTING CAPACITIES
BLDG	BUILDING
C	CONDUIT
CCTV	CLOSE CIRCUIT TELEVISION
CFP	CUSTOMER FACE PLATE
CKT	CIRCUIT
COMM	COMMUNICATION
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RECPT	RECEPTACLE
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RM	ROOM
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	2 SETS - (3)#500,(1)#500N,(1)#4G
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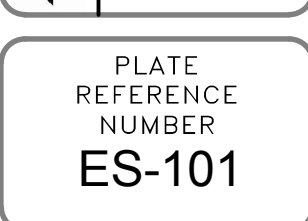
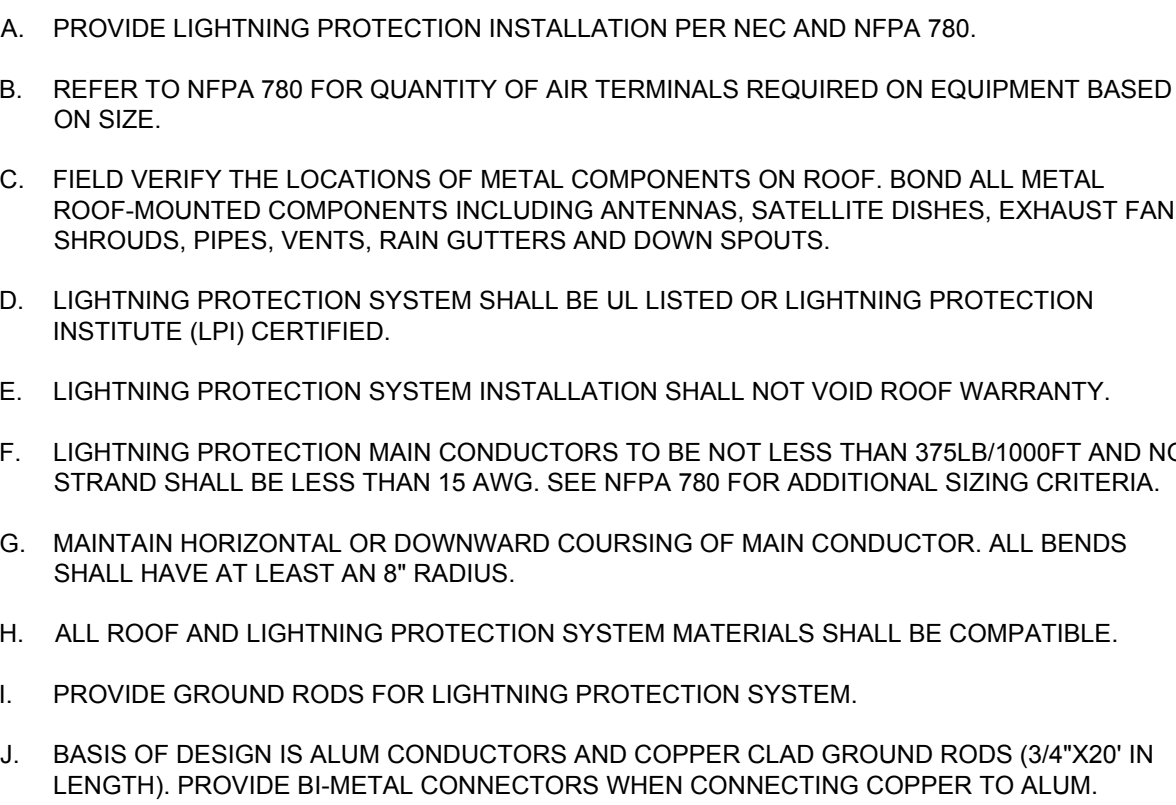
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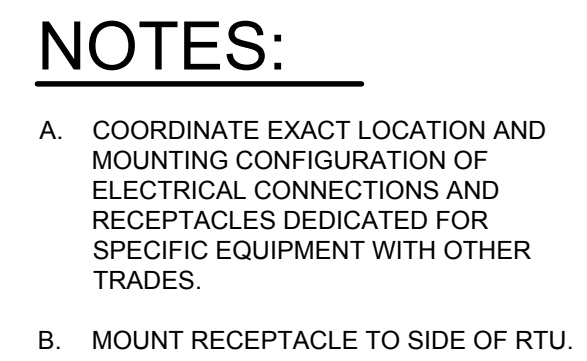
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[illegible]



- A. COORDINATE EXACT LOCATION AND MOUNTING CONFIGURATION OF ELECTRICAL CONNECTIONS AND RECEPTACLES DEDICATED FOR SPECIFIC EQUIPMENT WITH OTHER TRADES.
- B. MOUNT RECEPTACLE TO SIDE OF RTU.

[illegible]

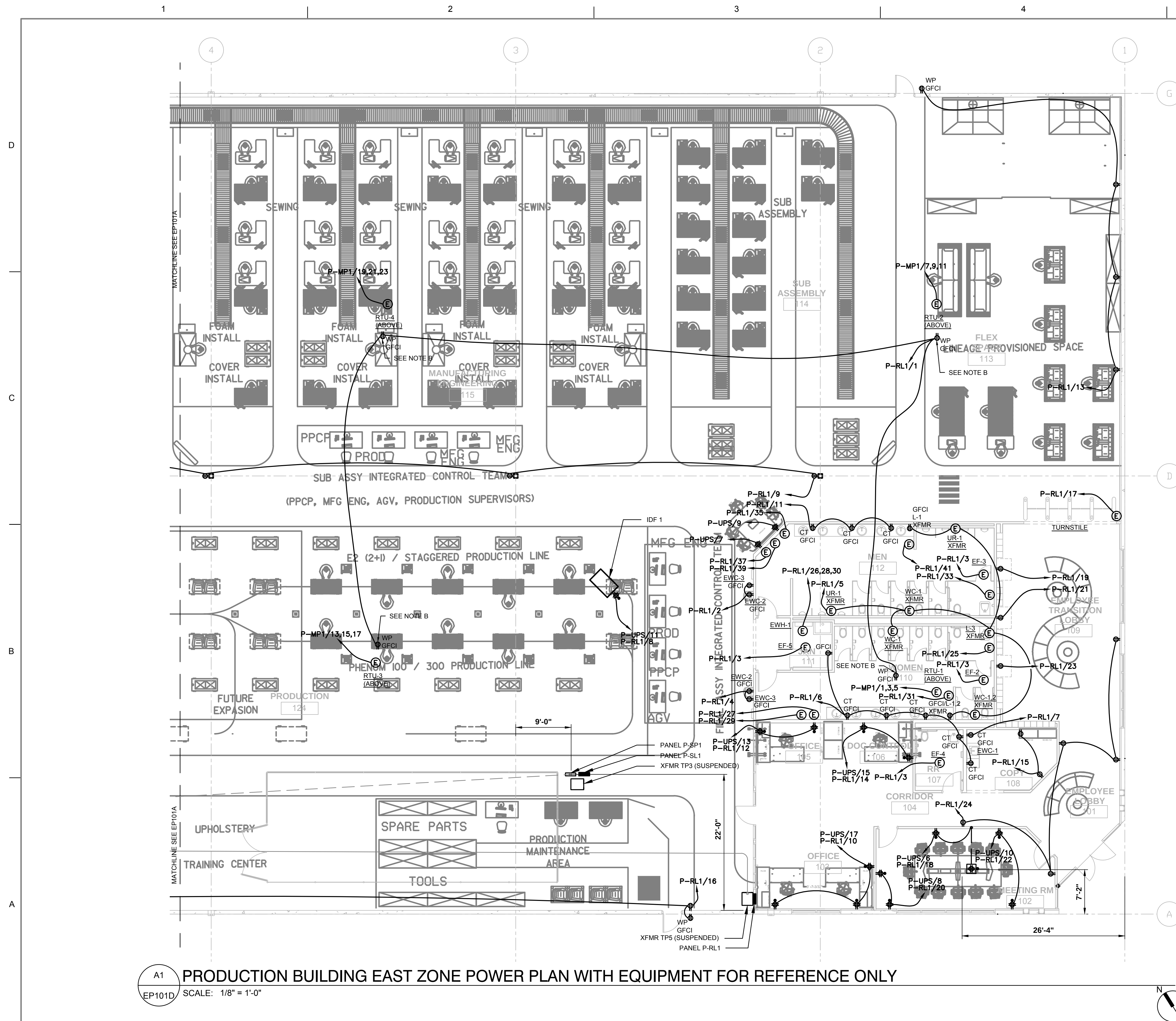
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JAM		DJV	
TDG	SUBMITTED BY:		
FILE NAME:			
SIZE: D 22"x34"		PLOT SCALE:	PLOT DATE: 03/03/16

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TECHNOLOGIES
TITUSVILLE, FL

PRODUCTION BUILDING EAST ZONE POWER PLAN

PLATE
REFERENCE
NUMBER
P-101B



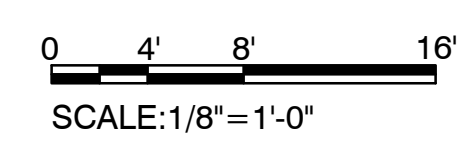
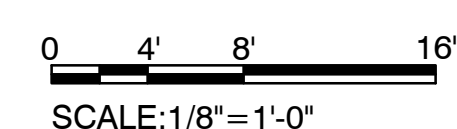
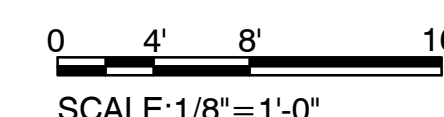
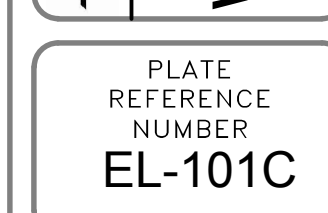


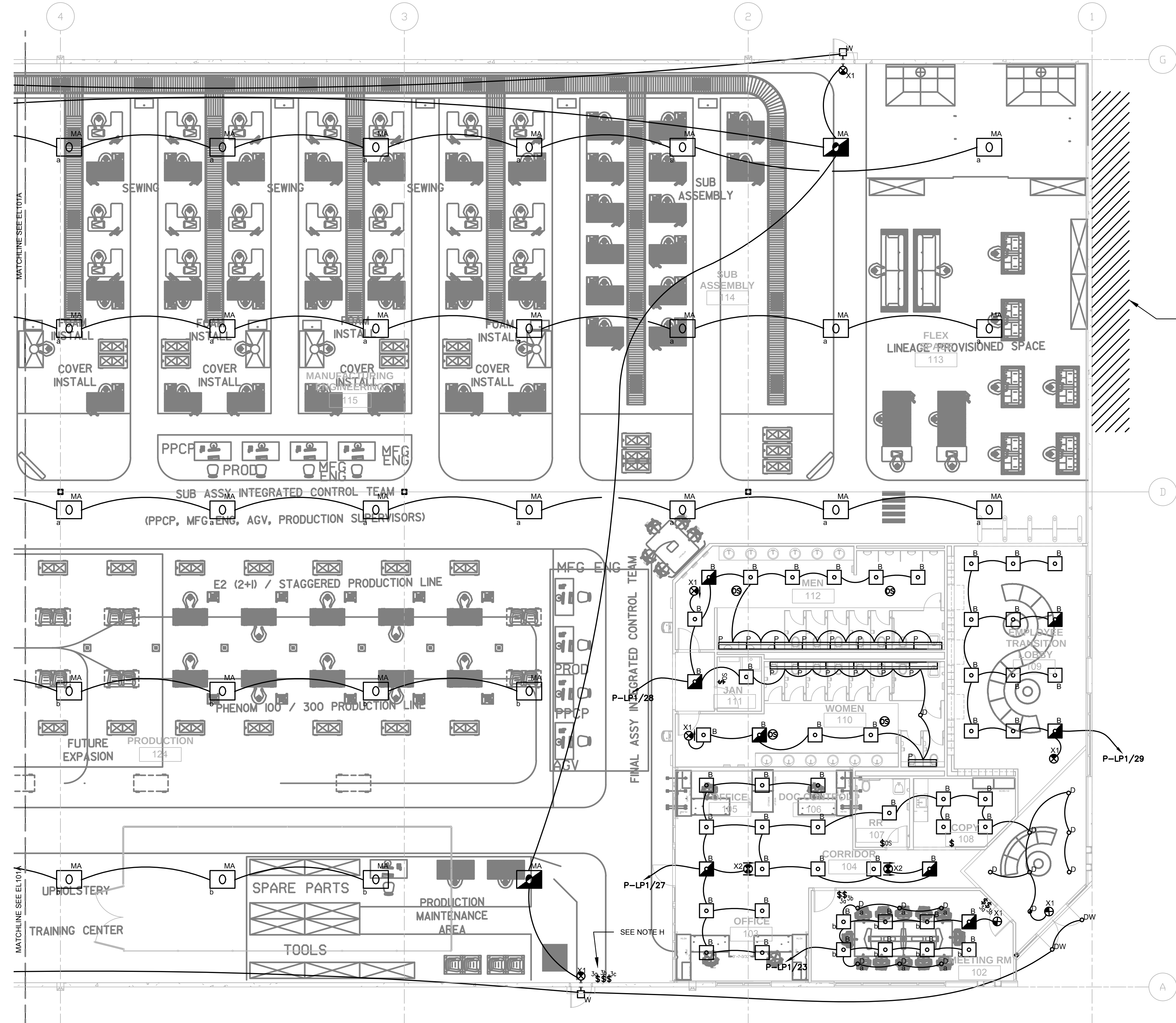
PLATE
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NOTE:
EQUIPMENT N.I.C.; SHOWN FOR REFERENCE ONLY.





NOTES:

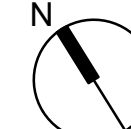
- CIRCUITING IS SHOWN DIAGRAMMATICALLY.
- EMERGENCY AND EXIT FIXTURES SHALL BE WIRED AHEAD OF OCCUPANCY AND/OR WALL SWITCHES.
- ROCKER WALL SWITCHES SHALL ACT TO OVERRIDE OCCUPANCY SENSORS WHERE BOTH ARE SHOWN.
- ROCKER SWITCHES AND CEILING MOUNTED OCCUPANCY SWITCHES SHALL BE LOCATED WITHIN THE ROOM THEY ARE LOCATED.
- EXTERIOR LIGHTING IS CONTROLLED THROUGH LIGHTING CONTACTOR LC-1.
- CLASS 2 - 24V CABLING IS USED FOR LOBBY FIXTURES T2 AND T4. SUPPLY LINE VOLTAGE POWER TO 24V POWER SUPPLIES VIA JUNCTIONS SHOWN.
- FOR THIS AREA, PROVIDE (8) CORED HOLES AFTER WALL CONSTRUCTION TO BE COORDINATED WITH THE ILLUMINATED ENTRANCE SIGN. EMBRAER LOGO AND EACH LETTER SHALL BE SUPPLIED THRU A CORED HOLE, VERSUS SURFACE MOUNTED EXTERIOR RACEWAY.
- PROVIDE LIGHTING RELAYS TO CONTROL PRODUCTION AREA TYPE 'MA' FIXTURES IN THE A,B,C 3-WAY SWITCHING SCENARIO SHOWN USING MULTIPLE SOURCE CIRCUITS.
- FOR TYPE MA FIXTURES SHOWN AS SUPPLIED FROM PANEL P-UPS, IF UPS OPTION IS NOT SELECTED REPLACE WITH LITHONIA FIXTURE #BL-24L-WD-LP740 DLC-DWH.

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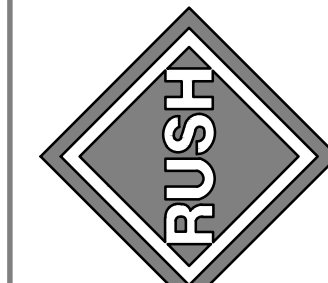
SEE NOTE G

A1 PRODUCTION BUILDING EAST ZONE LIGHTING PLAN WITH EQUIPMENT FOR REFERENCE ONLY

EL-101D SCALE: 1/8" = 1'-0"



0 4' 8' 16'
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DATE	BY	DATE	BY
03/03/16	BVM	03/03/16	BVM
CONTRACT SET FOR CONSTRUCTION			
2	SYMBOL	DESCRIPTION	

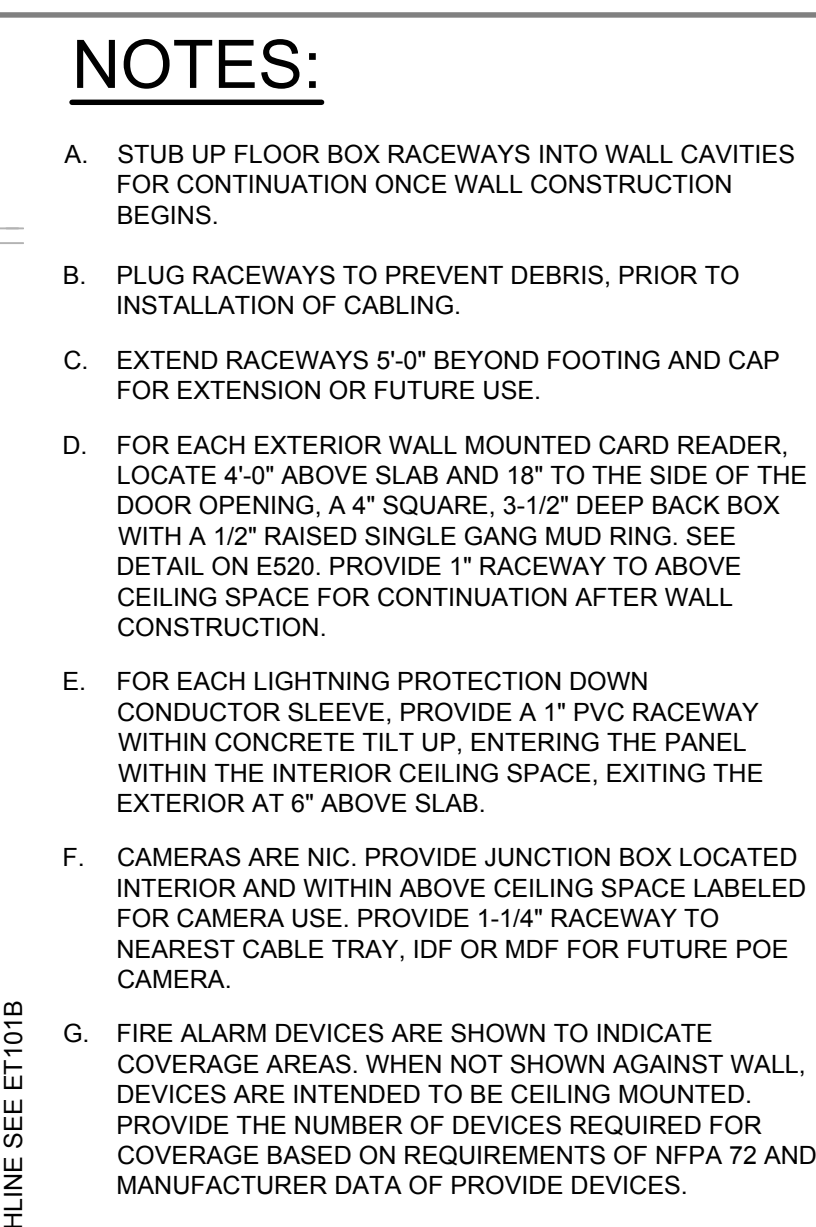
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**PRODUCTION BUILDING
EAST ZONE LIGHTING PLAN
WITH EQUIPMENT**

PLATE
REFERENCE
NUMBER
EL-101D

[illegible]

DESIGNED BY:	DATE:
KLH	03/03/16
DWN BY:	CKD BY:
JAM	DJV
SUBMITTED BY:	
TDG	
FILE NAME:	
SIZE: D	PLOT SCALE:
22"x34"	
	PLOT DATE:
	03/03/16

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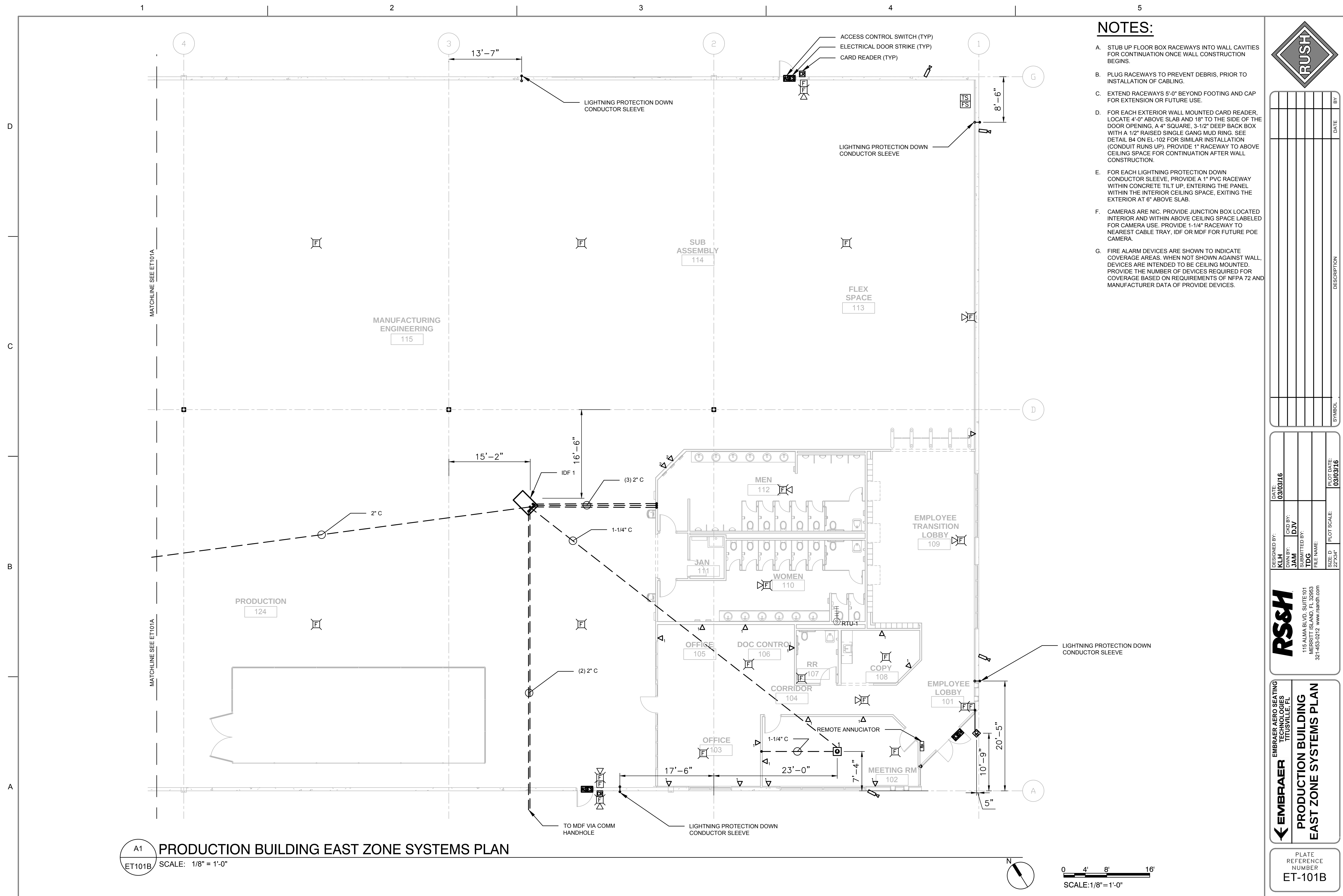
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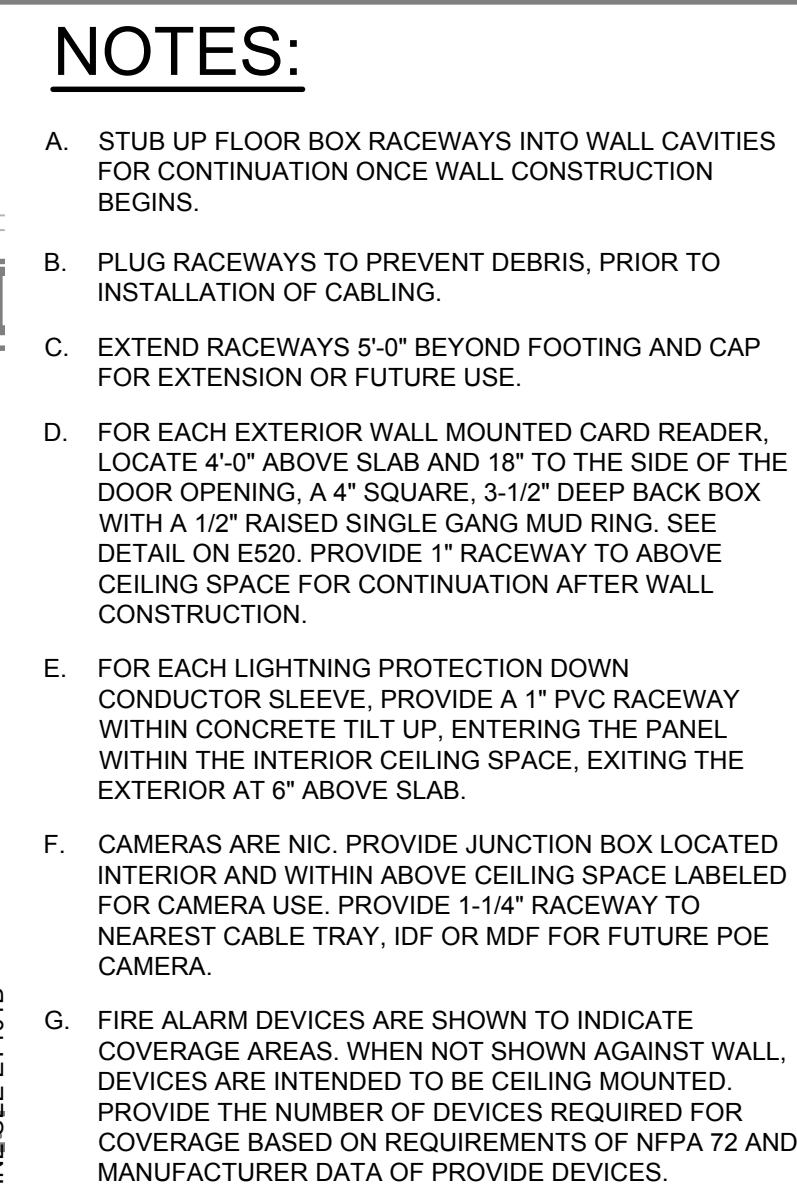
EMBRAER EMBRAER AERO SEATING
TECHNOLOGIES
TITUSVILLE, FL

PRODUCTION BUILDING

WEST ZONE SYSTEMS PLAN

PLATE
REFERENCE
NUMBER
ET-101A

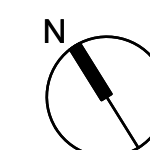




NOTE:
EQUIPMENT N.I.C.; SHOWN FOR REFERENCE ONLY.

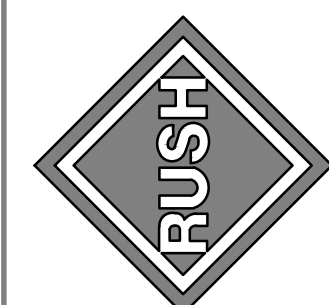
A1 PRODUCTION BUILDING WEST ZONE SYSTEM PLAN WITH EQUIPMENT FOR REFERENCE ONLY
ET101C/ SCALE: 1/8" = 1'-0"

ET101C SCALE: 1/8" = 1'-0"



0 4' 8' 16'

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

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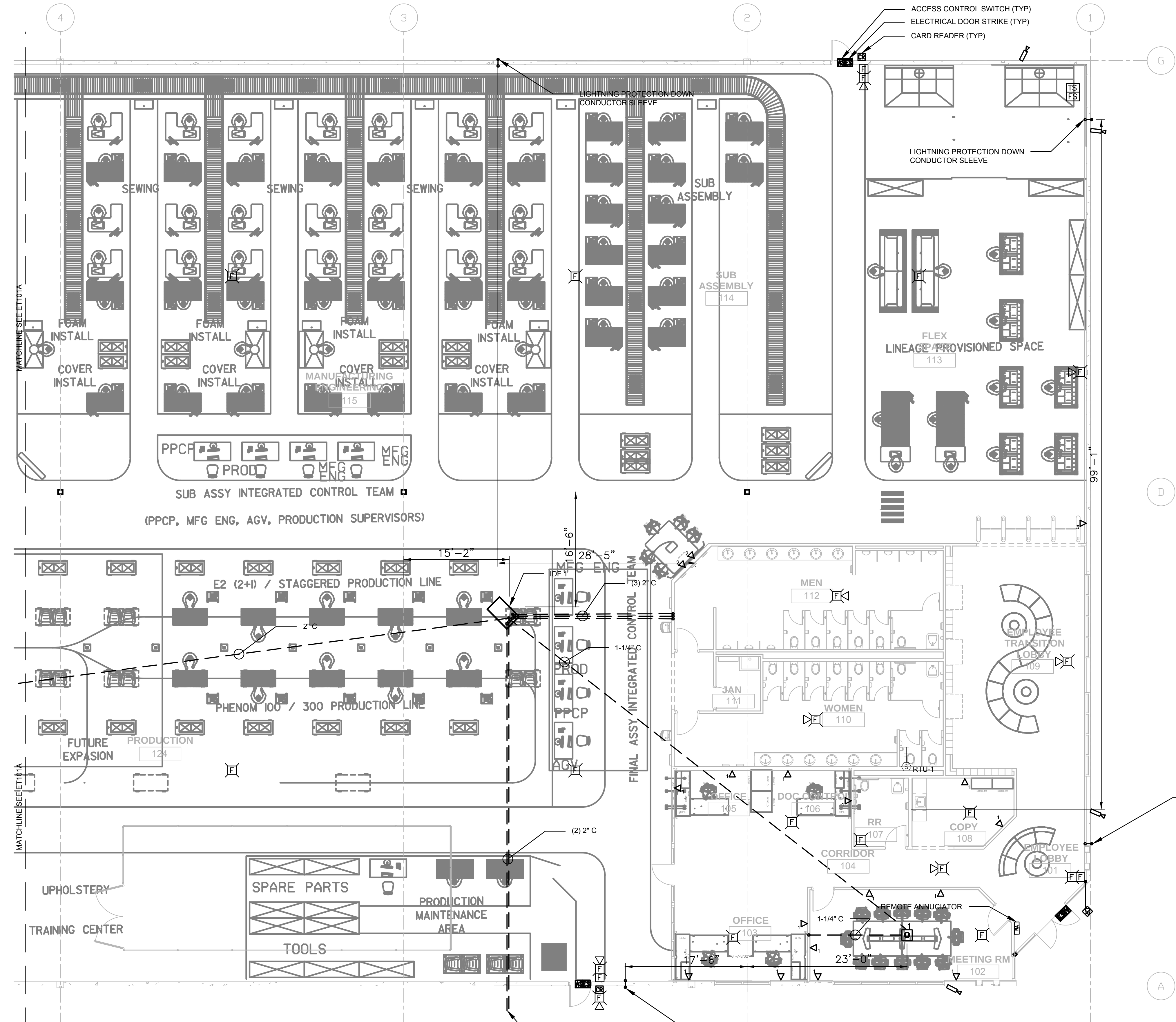
DESIGNED BY:	KLH	DATE:	03/03/16
DWN BY:	JAM	CKD BY:	DJV
SUBMITTED BY:	TDG		
FILE NAME:			
SIZE: D	PLOT SCALE:	PLOT DATE:	03/03/16
22"x34"			

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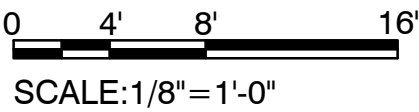
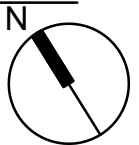
**PRODUCTION BUILDING
WEST ZONE SYSTEMS PLAN
WITH EQUIPMENT**

PLATE
REFERENCE
NUMBER
ET-101C



- NOTES:**
- A. STUB UP FLOOR BOX RACEWAYS INTO WALL CAVITIES FOR CONTINUATION ONCE WALL CONSTRUCTION BEGINS.
 - B. PLUG RACEWAYS TO PREVENT DEBRIS, PRIOR TO INSTALLATION OF CABLING.
 - C. EXTEND RACEWAYS 5'-0" BEYOND FOOTING AND CAP FOR EXTENSION OR FUTURE USE.
 - D. FOR EACH EXTERIOR WALL MOUNTED CARD READER, LOCATE 4'-0" ABOVE SLAB AND 18" TO THE SIDE OF THE DOOR OPENING, A 4" SQUARE, 3-1/2" DEEP BACK BOX WITH A 1/2" RAISED SINGLE GANG MUD RING. SEE DETAIL B4 ON EL-102 FOR SIMILAR INSTALLATION (CONDUIT RUNS UP). PROVIDE 1" RACEWAY TO ABOVE CEILING SPACE FOR CONTINUATION AFTER WALL CONSTRUCTION.
 - E. FOR EACH LIGHTNING PROTECTION DOWN CONDUCTOR SLEEVE, PROVIDE A 1" PVC RACEWAY WITHIN CONCRETE TILT UP, ENTERING THE PANEL WITHIN THE INTERIOR CEILING SPACE, EXITING THE EXTERIOR AT 6" ABOVE SLAB.
 - F. CAMERAS ARE NIC. PROVIDE JUNCTION BOX LOCATED INTERIOR AND WITHIN ABOVE CEILING SPACE LABELED FOR CAMERA USE. PROVIDE 1-1/4" RACEWAY TO NEAREST CABLE TRAY, IDF OR MDF FOR FUTURE POE CAMERA.
 - G. FIRE ALARM DEVICES ARE SHOWN TO INDICATE COVERAGE AREAS. WHEN NOT SHOWN AGAINST WALL, DEVICES ARE INTENDED TO BE CEILING MOUNTED. PROVIDE THE NUMBER OF DEVICES REQUIRED FOR COVERAGE BASED ON REQUIREMENTS OF NFPA 72 AND MANUFACTURER DATA OF PROVIDE DEVICES.
- NOTE:
EQUIPMENT N.I.C.; SHOWN FOR REFERENCE ONLY.

A1 PRODUCTION BUILDING EAST ZONE SYSTEMS PLAN WITH EQUIPMENT FOR REFERENCE ONLY
ET101D SCALE: 1/8" = 1'-0"



DATE	BY	DATE	BY
03/03/16	BVM	03/03/16	BVM
CONTRACT SET FOR CONSTRUCTION			
2	SYMBOL	DESCRIPTION	

DESIGNED BY: KLH	DATE: 03/03/16
DWN BY: JAM	CHECK BY: BJV
SUBMITTED BY: TDG	FILE NAME:
SIZE D 42 X 34	PLOT SCALE: 1/8" = 1'-0"
PLOT DATE: 03/03/16	

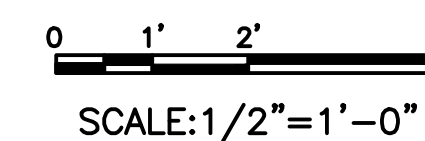
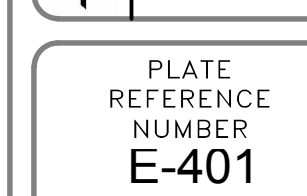
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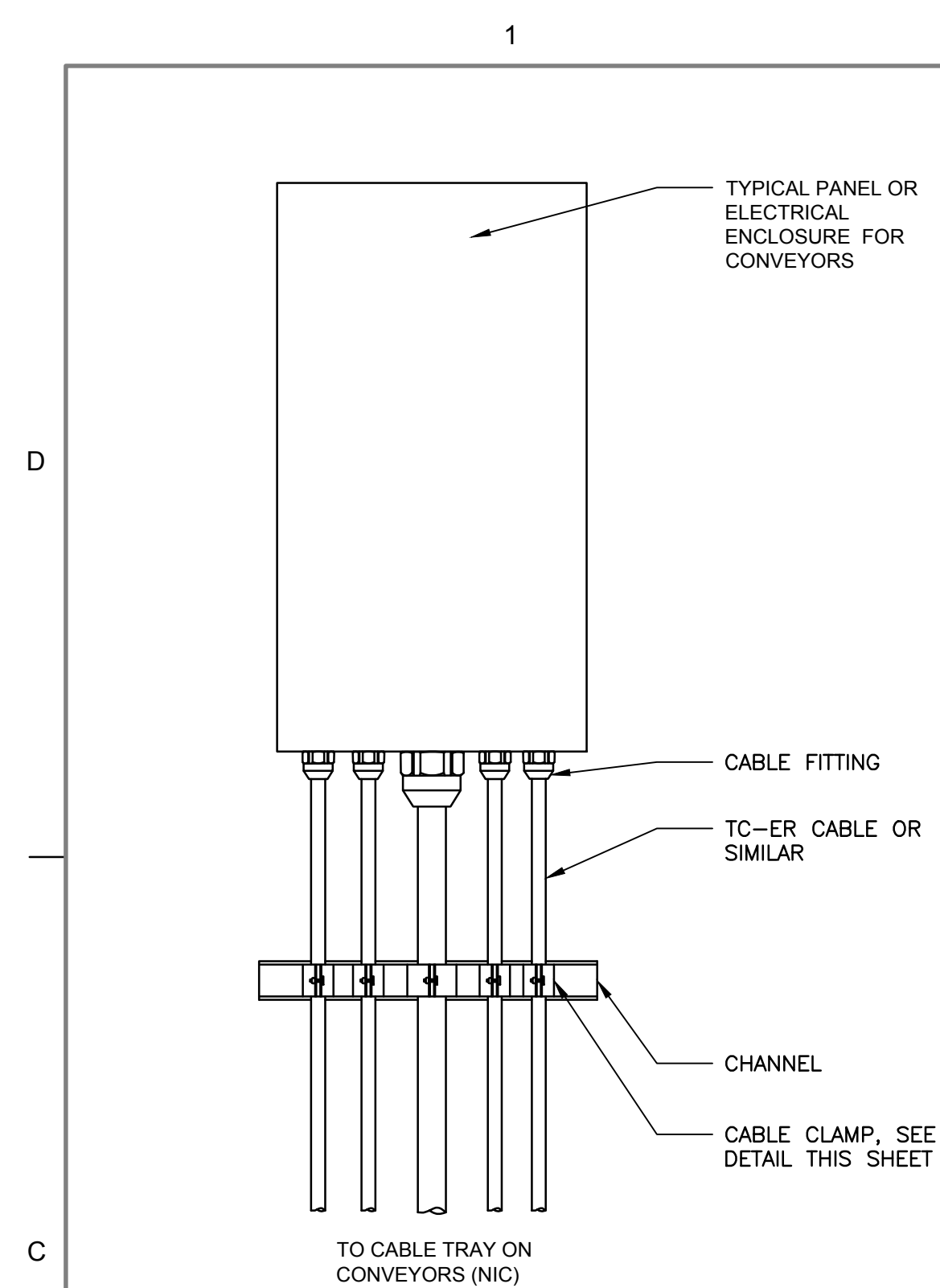
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TTUSVILLE, FL
PRODUCTION BUILDING EAST ZONE SYSTEMS PLAN WITH EQUIPMENT

PLATE
REFERENCE
NUMBER
ET-101D



1 ALTERNATE BID ITEM. NOT IN CONTRACT.



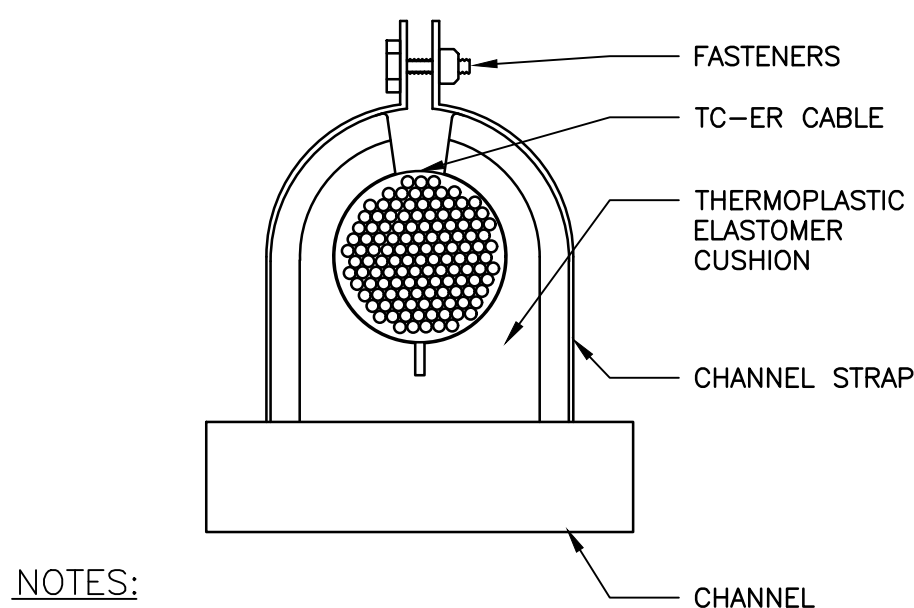


C1

E500

TYPICAL TC-ER CABLE TO PANEL TERMINATION DETAIL

SCALE: N.T.S

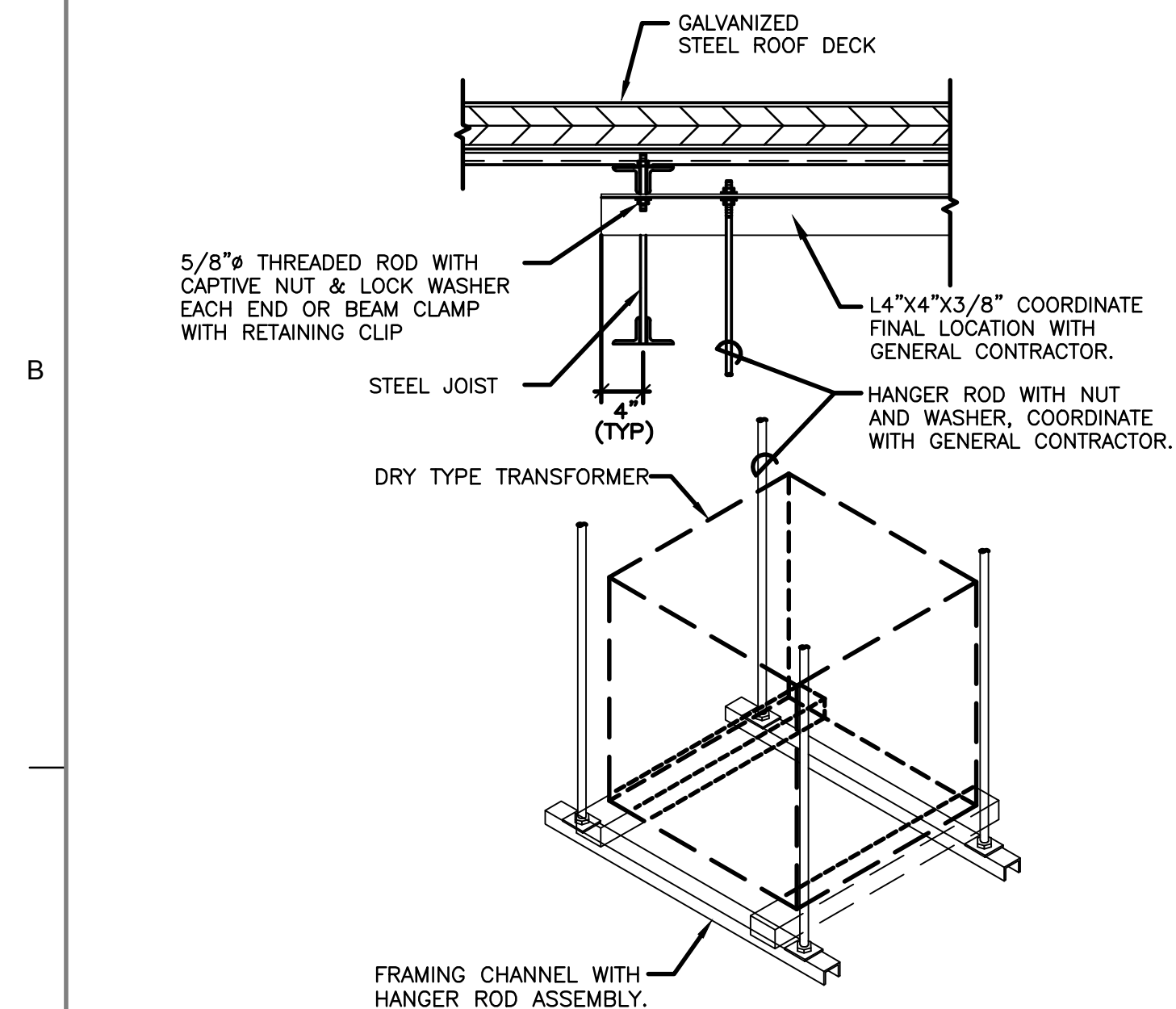


C2

E50

TYPICAL CABLE CLAMP DETAIL

SCALE: N.T.S



NOTES:

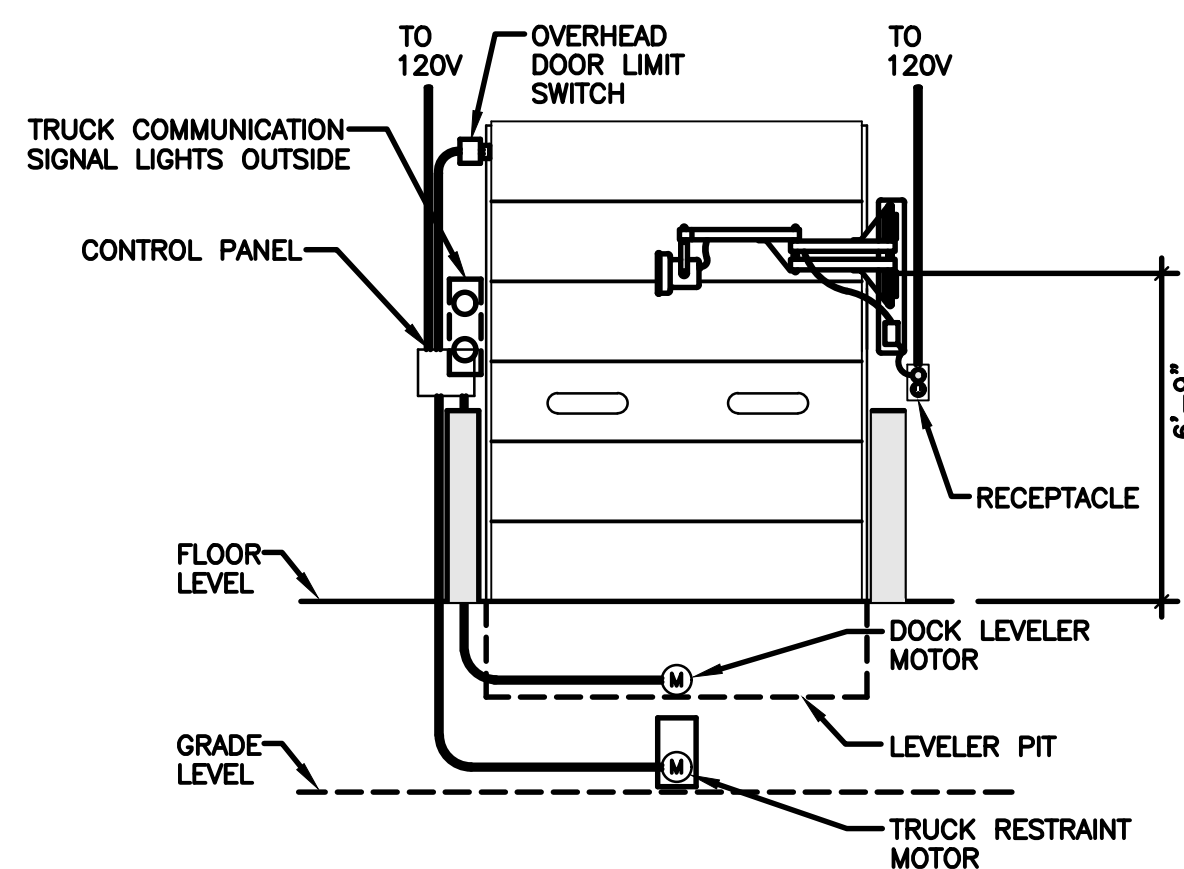
1. FASTEN HANGER RIGIDLY TO STRUCTURE ABOVE. SIZE TO ACCOMMODATE TRANSFORMER WEIGHT. BOLT TRANSFORMER TO STRUT. PROVIDE ADDITIONAL METAL FRAMING CHANNELS AS NEEDED FOR PROPER INSTALLATION AT THE LOCATION SHOWN ON THE PLAN. REVIEW WITH GENERAL CONTRACTOR FOR APPROVAL.
2. INSTALL 3'-0" OF FLEXIBLE CONDUIT CONNECTING PRIMARY AND SECONDARY CONDUITS WITH THE TRANSFORMER HOUSING.

A1

E50

SUSPENDED TRANSFORMER DETAIL

SCALE: N.T.S



NOTES:

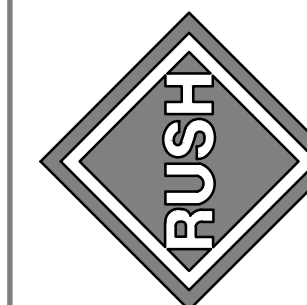
1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR POWER AND CONTROL WIRING OF THE DOCK EQUIPMENT SYSTEM AS REQUIRED PER THE MANUFACTURER'S SHOP DRAWINGS. WHEN THE DOCK DOOR EQUIPMENT IS PURCHASED THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF THE SHOP DRAWINGS FROM THE OWNER OR GENERAL CONTRACTOR. CONNECTIONS INCLUDE CONTROL PANEL, DOOR LIMIT SWITCHES, DOCK LEVELER MOTOR, TRUCK RESTRAINT MOTOR, COMMUNICATION SIGNAL LIGHTS, DOCK ARM LIGHT, ETC.. PROVIDE #12 AWG. WIRE FOR ALL POWER CIRCUITS AS A MINIMUM ON THE LOAD SIDE OF THE CONTROL PANEL.
2. THIS IS A GENERIC LAYOUT FOR ESTIMATING PURPOSES. THE ELECTRICAL CONTRACTOR SHALL NOT PROVIDE ANY INSTALLATION WITHOUT MANUFACTURER'S SHOP DRAWINGS. CONDUITS QUANTITY SHOWN SHALL BE PROVIDED AS A MINIMUM.

A2

E500

DOCK DOOR EQUIPMENT CONNECTIONS

SCALE: N.T.S

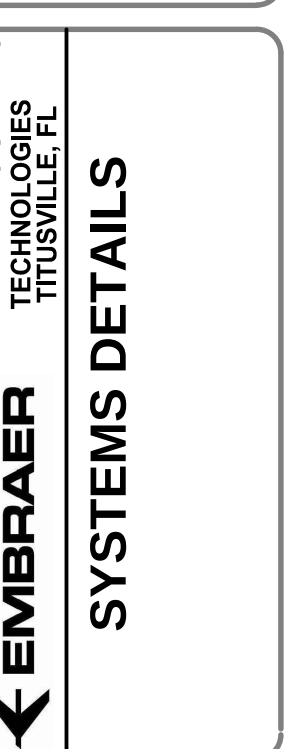
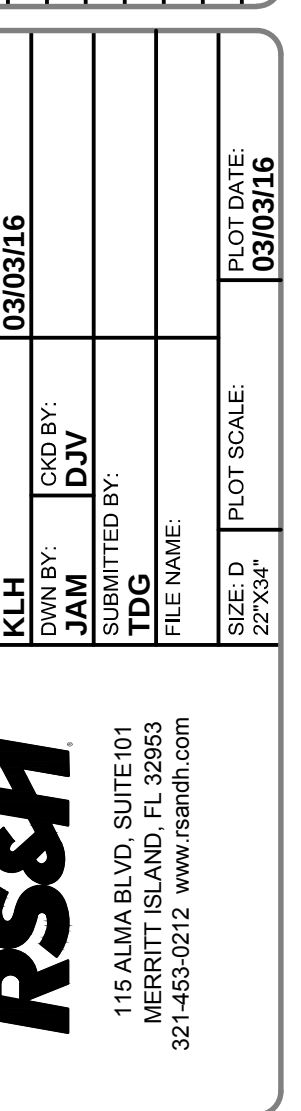
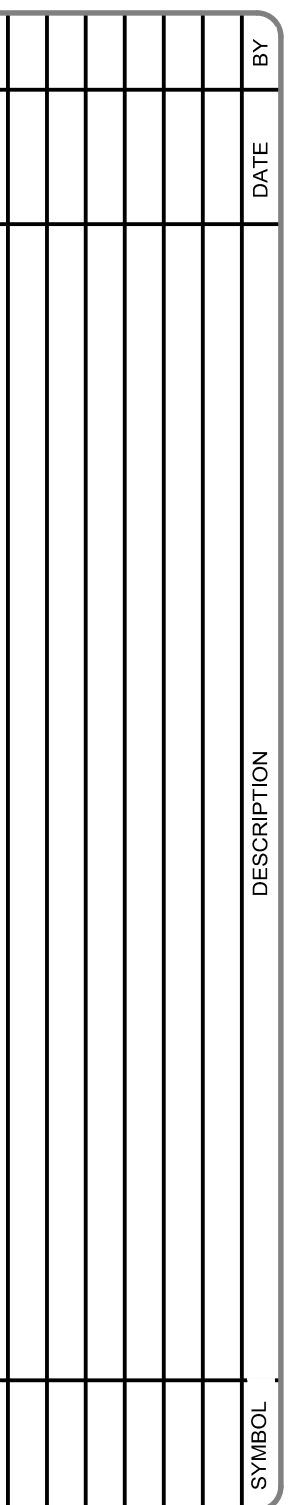
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DESIGNED BY:		DATE: 03/03/16	
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JAM	DJV		
SUBMITTED BY:			
TDG			
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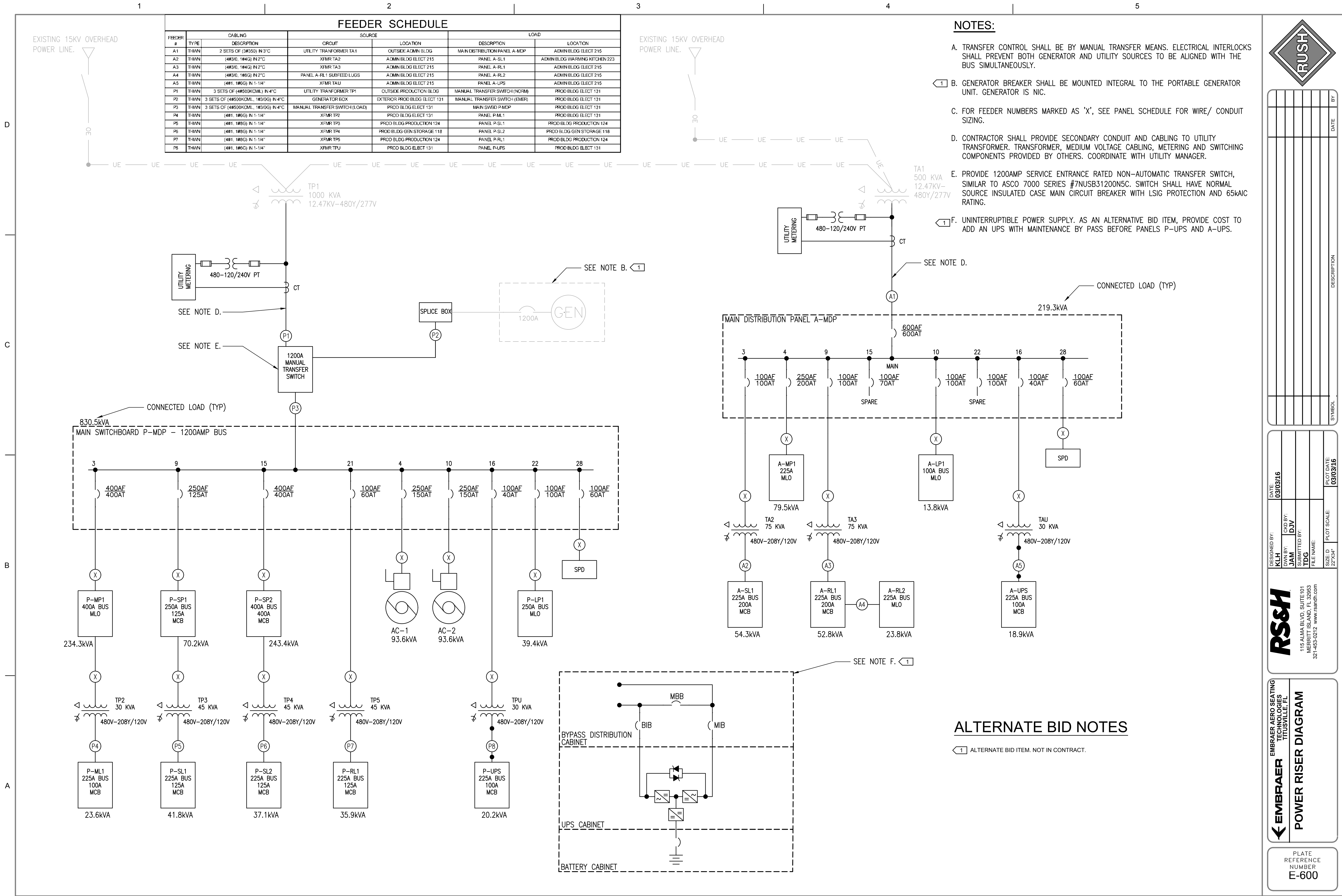
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POWER DETAILS

PLATE
REFERENCE
NUMBER
E-500

PLATE
REFERENCE
NUMBER
E-520





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POWER RISER DIAGRAM

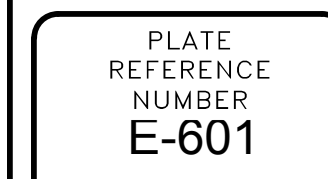
PLATE REFERENCE NUMBER E-600

ABA

Notes:

1. WORKSTATION RECPT ARE ASSUMED TO DRAW 360VA EA

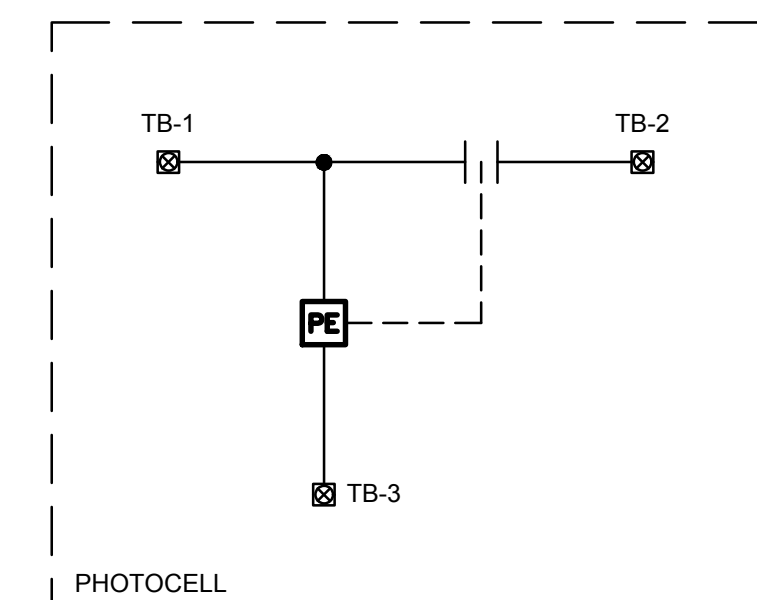
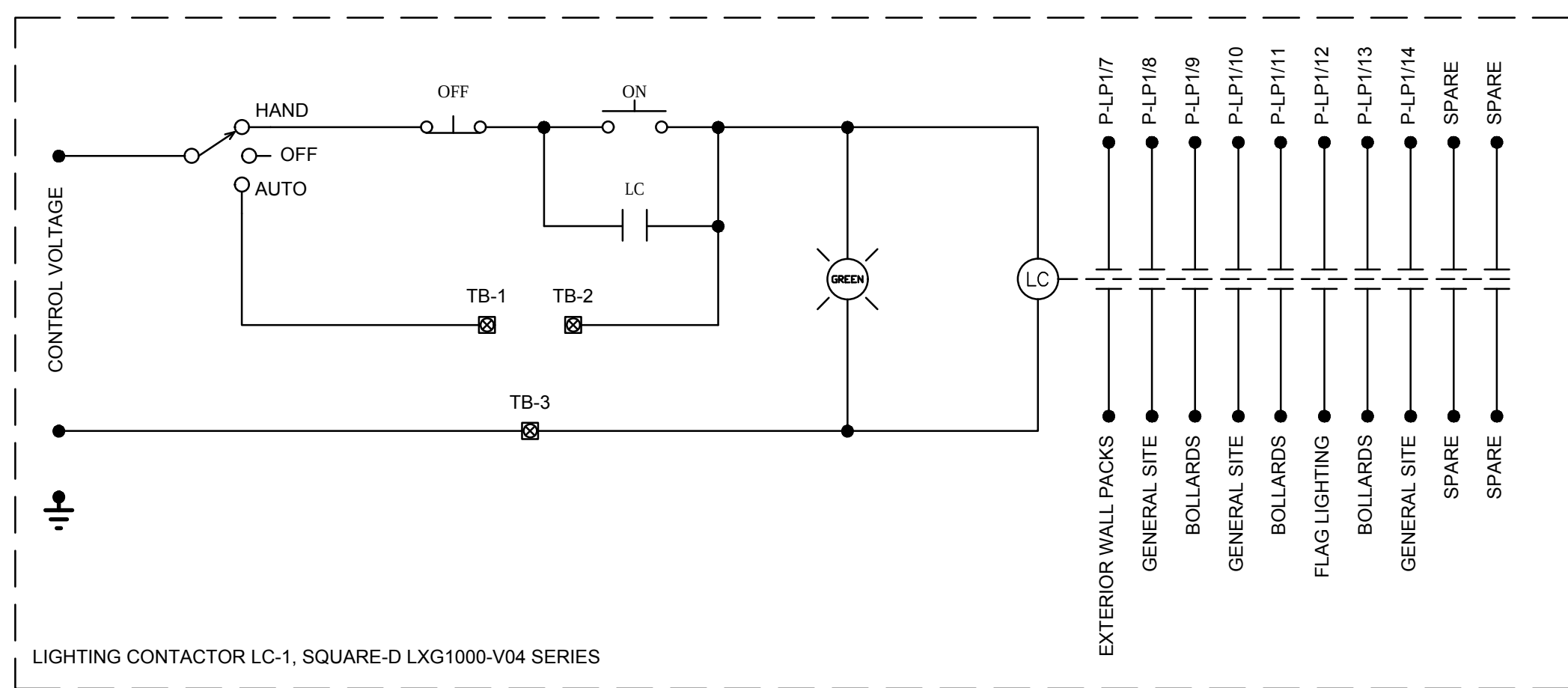
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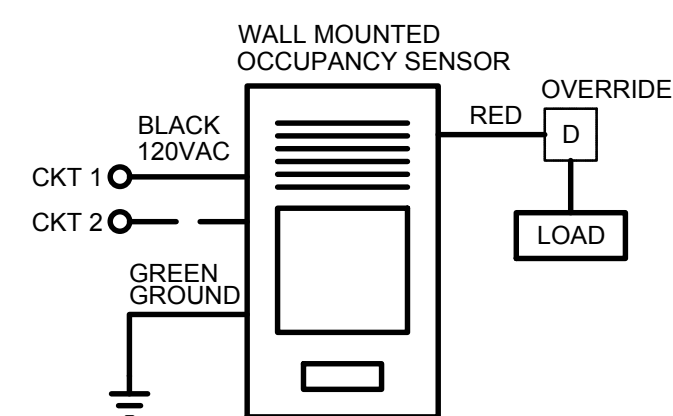
B1A

A. ELECTRICAL PANELS P-SP1, P-SP2, P-SL1 AND P-SL2 ARE PROVIDED TO SUPPORT THE INSTALLATION AND POWER REQUIRED BY THE PRODUCTION CONVEYORS. LOADS SHOWN INDICATE THE ANTICIPATED LOADS SUPPLIED BY THE OWNER FOR EACH CONVEYOR AND/OR EQUIPMENT INSTALLED ALONG THE CONVEYOR. COORDINATE THE INSTALLATION OF THESE PANELS AND ASSOCIATED TRANSFORMERS WITH THE OWNER'S REPRESENTATIVE.

A



C1 LC-1 - LIGHTING CONTROL WIRING DIAGRAM E610 SCALE: N.T.S



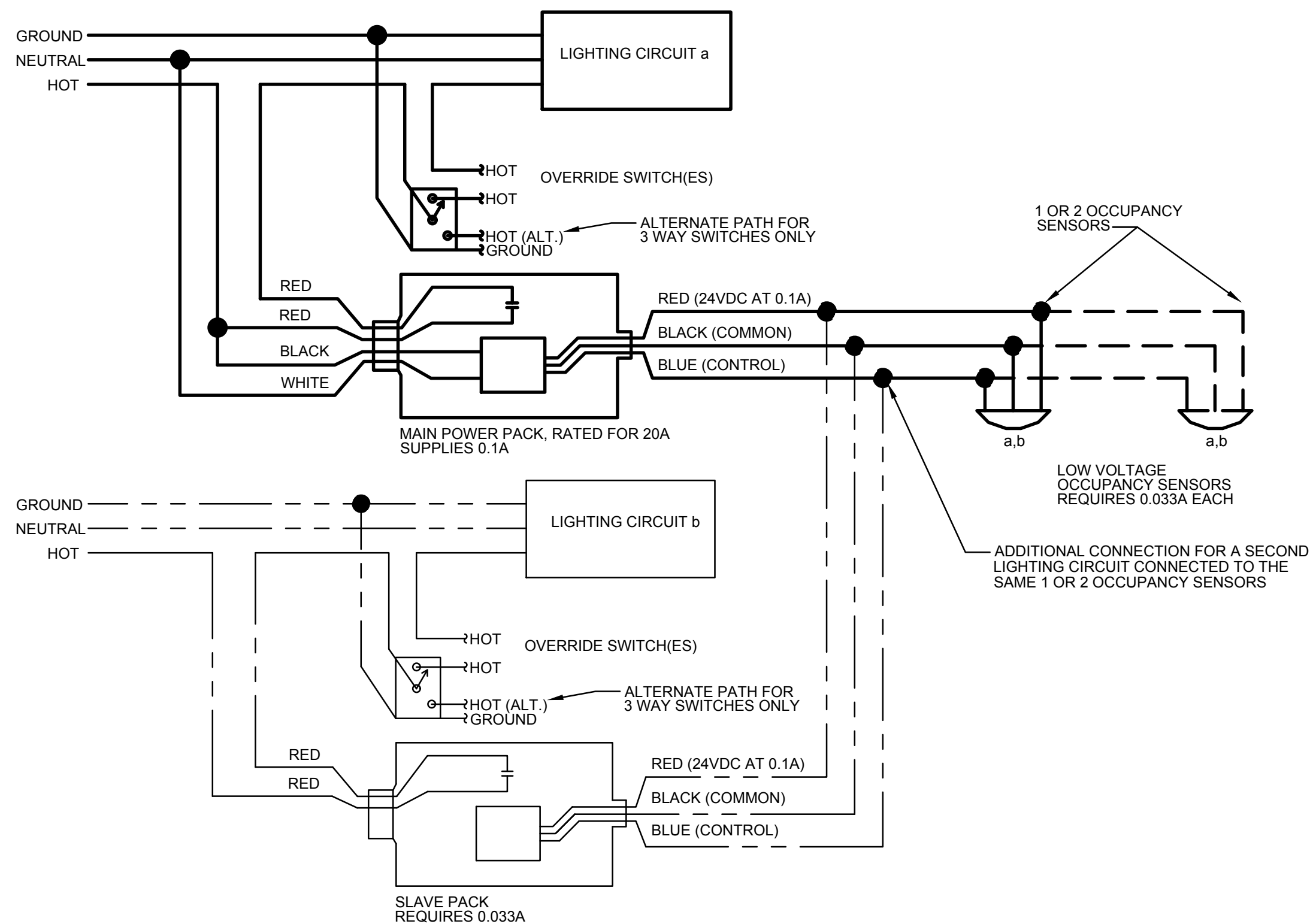
NOTE:

1. LIGHTING LOAD TURNS ON IF OCCUPANCY SENSOR DETECTS MOTION AND OVERRIDE DIMMER IS IN THE ON POSITION.
2. WIRING IS FOR THE HUBBELL OCCUPANCY SENSORS. FOR OTHER MANUFACTURERS, FOLLOW THE WIRING DIAGRAMS IN THE MANUFACTURER'S INSTRUCTIONS.

LEGEND:

_____ REQUIRED

WALL MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM



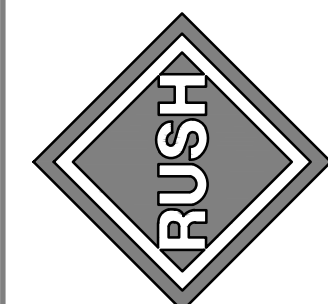
OCCUPANCY SENSOR WIRING DIAGRAM

- NOTES:

1. LIGHTING LOAD TURNS ON IF ONE OCCUPANCY SENSOR DETECTS MOTION AND OVERRIDE SWITCH IS IN THE ON POSITION.
2. DO NOT CONNECT MORE THAN 3 DEVICES (I.E. SENSORS OR SLAVE PACKS) PER POWER PACK.
3. DO NOT CONNECT MORE THAN 3 POWER PACKS AS SHOWN.
4. ADD 3 WAY AND 4 WAY SWITCHES AS REQUIRED PER LIGHTING PLAN.
5. WIRING IS FOR HUBBELL OCCUPANCY SENSORS. FOR OTHER MANUFACTURERS, FOLLOW THE WIRING DIAGRAMS IN THE MANUFACTURER'S INSTRUCTIONS.
6. PER NFPA 101 7.8.1.2.2, AUTOMATIC, MOTION SENSOR-TYPE LIGHTING SWITCHES SHALL BE PERMITTED WITHIN THE MEANS OF EGRESS, PROVIDED THAT THE SWITCH CONTROLLERS ARE EQUIPPED FOR FAIL-SAFE OPERATION, THE ILLUMINATIONS TIMERS ARE SET FOR A MINIMUM 15-MINUTE DURATION, AND THE MOTION SENSOR IS ACTIVATED BY ANY OCCUPANT MOVEMENT IN THE AREA SERVED BY THE LIGHTING UNITS.

_____ REQUIRED
_____ OPTIONAL

MARK	DESCRIPTION	MOUNTING	LAMPS			
			TYPE	WATTS	MANUFACTURER	CATALOG NUMBER
A	LED DOCK ARM LIGHT DIE CAST ALUMINUM HOUSING	SURFACE	LED	15	1 RITE HITE (OR EQUAL)	HD-LED 133146
B	LED 2X2 RECESSED TROFFER DAMP LOCATION, STEEL HOUSING	RECESSED	LED	38	1 LITHONIA 2 LITHONIA	2TL2-33L-FW-SWL-D38-LP840-1NX 2BLT2 33L ADF E21 LP840 2
C	LED 48" LENSED STRIPLIGHT DAMP LOCATION, ELECTRONIC LED DRIVER	SUSPENDE (AT 10'-0")	LED	70	1 LITHONIA (OR EQUAL)	Z2LN-L48-5000LM-MDD-MVOLT-40K-80CRI
D	LED 6" OPEN DOWNLIGHT WET LOCATION, 0-10V DIMMING DRIVER	RECESSED	LED	18	1 LITHONIA (OR EQUAL)	LDN6-40-10-L06-WR-277
F	LED CANOPY LUMINAIRE CAST-ALUMINUM, CORROSION-RESISTANT HOUSING	SURFACE	LED	41	1 LITHONIA (OR EQUAL)	VRCLED-1-50K-MVOLT
MA	LED HIGH BAY DAMP LOCATION, STEEL HOUSING	SUSPENDE (AT 16'-0")	LED	489	1 LITHONIA (OR EQUAL)	IBL-24L-WD-LP740 DLC-DWH 2
P	FLUORESCENT, PERIMETER LIGHTING, EXTRUDED WHITE BAFFLE, 3/16" BLADES, 1"H X 1 2" OC (ORDERED TO FIT) 33W/4FT	RECESSED PERIMETER	FLOURESCENT	33	1 MARK ARCH LIGHTING (OR EQUAL)	MP_ FT-1T5S-GEB10IS-277-EBB
SLA	LED OUTDOOR AREA LUMINAIRE, TYPE III DISTRIBUTION SINGLE-POLE MOUNTED, WET LOCATION	POLE MOUNTED	LED	131	1 LITHONIA (OR EQUAL)	DSX1-LED-60C-700-40K-T3M-MVOLT-RPA-DNAXD
SLA2	LED OUTDOOR AREA LUMINAIRE, TYPE III DISTRIBUTION DOUBLE-POLE MOUNTED, WET LOCATION	POLE MOUNTED	LED	262	1 LITHONIA (OR EQUAL)	DSX1-LED-60C-700-40K-T3M-MVOLT-RPA-DNAXD
SLB	EXTERIOR BOLLARD, FULL CUT-OFF DIE-CAST ALUMINUM HOUSING, ELECTRONIC BALLAST, 120DEG	BOLLARD	METAL HALIDE	39	1 ARES (OR EQUAL)	U936788.2 WITH 39 MH LAMP INCLUDED-U21
SLB2	EXTERIOR BOLLARD, FULL CUT-OFF DIE-CAST ALUMINUM HOUSING, ELECTRONIC BALLAST, 360DEG	BOLLARD	METAL HALIDE	39	1 ARES (OR EQUAL)	U936785.2 WITH 39 MH LAMP INCLUDED-U21
SLC	LED OUTDOOR LINEAR FAÇADE WALL WASH LUMINAIRE, SURFACE GRADE MOUNTED WITH IN GRADE POWER SUPPLY	FAÇADE WALL WASH	LED	60	1 HYDREL (OR EQUAL)	RHY4-BPCB-WHT41K-MVOLT-VWD-ASM-CSL20-BLA
SLF	LED 10" ARCHITECTURAL LUMINAIRE, MEDIUM FLOOD DISTRIBUTION MONOCHROMATIC LED, WET LOCATION, FLAG POLE MOUNTED	IN-GRADE	LED	19	1 HYDREL (OR EQUAL)	PDX10-SS-18LED-WHT41K-MVOLT-MFL-FLC-34S-LPI
SLG	LED OUTDOOR AREA LUMINAIRE, FORWARD THROW MEDIUM DISTRIBUTION POLE MOUNTED, WET LOCATION	POLE MOUNTED	LED	131	1 LITHONIA (OR EQUAL)	DSX1-LED-60C-700-40K-TFTM-MVOLT-RPA-DNAXD
T2	LED INTERIOR T-BAR REPLACEMENT LUMINAIRE, 9/16" WIDTH, 24" LENGTH DIFFUSING LENS, WHITE	T-BAR REPLACEMENT	LED	17	1 T-BAR LED SMARTLIGHT (OR EQUAL)	TBSL-MN-2-15-D-U-W
T4	LED INTERIOR T-BAR REPLACEMENT LUMINAIRE, 9/16" WIDTH, 48" LENGTH DIFFUSING LENS, WHITE	T-BAR REPLACEMENT	LED	34	1 T-BAR LED SMARTLIGHT (OR EQUAL)	TBSL-MN-4-15-D-U-W
X1	LED EMERGENCY EXIT SIGN, SINGLE FACE RED LETTERS, SELF DIAGNOSTIC	UNIVERSAL	LED	1.4	1 LITHONIA 2 LITHONIA	LE-S-1-RLN-SD EXR LED EL M6 2
X2	LED EMERGENCY EXIT SIGN, DOUBLE FACE RED LETTERS, SELF DIAGNOSTIC	UNIVERSAL	LED	1.4	1 LITHONIA 2 LITHONIA	LE-S-2-RLN-SD EXR LED EL M6 2
W	LED EXTERIOR WALL LUMINAIRE FORWARD THROW MEDIUM DISTRIBUTION, FULL CUTOFF	WALL (AT 12'-0")	LED	71	1 LITHONIA (OR EQUAL)	DSXW2-LED-30C-700-40K-TFTM-277-DNAXD
POLE	DIRECT BURIAL, 140MPH RATED, COMPOSITE LIGHT POLE (SLA, SLA2, SLG) GRAY, 25'-0" MOUNTING HEIGHT, 31'-0" OVERALL LENGTH	DIRECT BURIAL	--	---	1 PLP COMPOSITE TECH (OR EQUAL)	FL-D325-S-9-GRY-H2

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DESIGNED BY:		DATE:
KLH		03/03/16
DWN BY:	CKD BY:	
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SUBMITTED BY:		
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FILE NAME:		
SIZE: D	PLOT SCALE:	PLOT DATE:
22"x34"		03/03/16

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**LIGHTING CONTROL
DIAGRAMS AND FIXTURE
SCHEDULE**

PLATE
REFERENCE
NUMBER
E-610

[illegible]

DESIGNED BY:	KLH		DATE:	03/03/16
DWN BY:	JAM	CKD BY:	DJV	
SUBMITTED BY:	TDG			
FILE NAME:				
SIZE: D	PLOT SCALE:		PLOT DATE:	
22"x34"			03/03/16	

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FIRE ALARM RISER

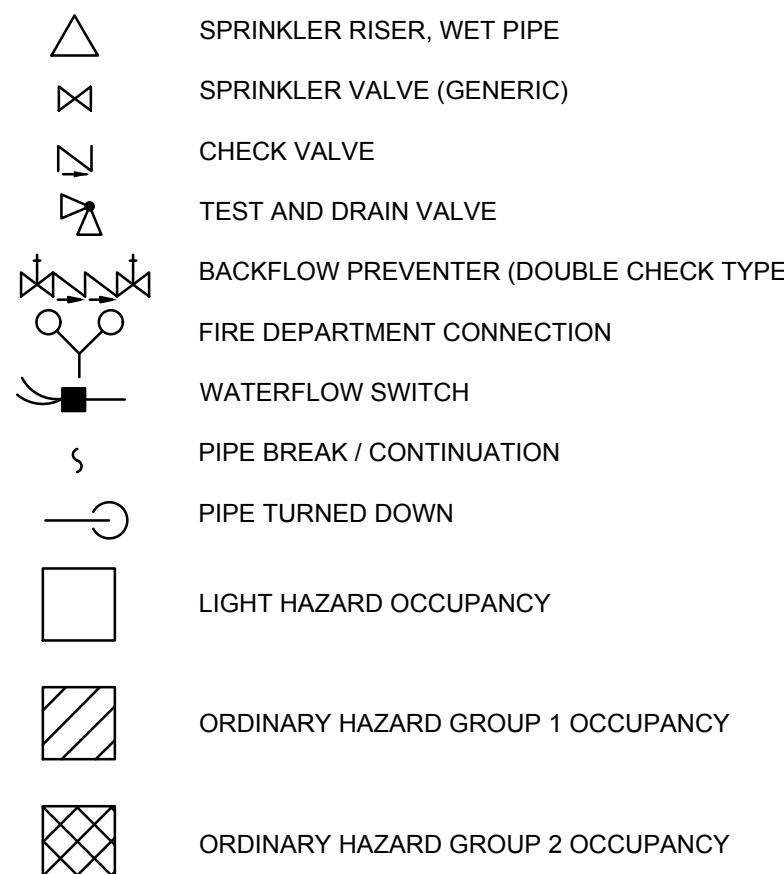
DIAGRAM AND MATRIX

PLATE
REFERENCE
NUMBER
E-630

FIRE SPRINKLER NOTES

1. PROVIDE WET PIPE SPRINKLER SYSTEMS THROUGHOUT ALL AREAS OF THE BUILDING, INCLUDING EXTERIOR COVERED WALKWAYS, LOADING DOCKS AND STAGING AREAS IN ACCORDANCE WITH NFPA 13 (2013 EDITION) AND THE FLORIDA FIRE PREVENTION CODE (5TH EDITION), ALL PIPING, SPRINKLERS, VALVES AND COMPONENTS SHALL BE UL LISTED AND/OR FM APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS. ALL SYSTEMS SHALL BE HYDRAULICALLY CALCULATED PER NFPA 13.
2. AREA HAZARD CLASSIFICATIONS ARE AS SHOWN ON THE DRAWINGS. LIGHT HAZARD AREAS INCLUDE OFFICES, CORRIDORS, RESTROOMS, ETC. ORDINARY HAZARD GROUP 1 AREAS INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS AND JANITOR CLOSETS. ORDINARY HAZARD GROUP 2 AREAS INCLUDE COVERED LOADING DOCKS, GENERAL STORAGE AREAS (STORAGE HEIGHT TO 12'-0" MAX) AND MANUFACTURING AREAS.
3. PROVIDE WET PIPE RISERS WITH APPROPRIATE TRIM PER NFPA 13. CONNECT FLOW AND TAMPER SWITCHES (PROVIDE ON ALL SYSTEM CONTROL AND SHUTOFF VALVES, INCLUDING BACKFLOW PREVENTER WHERE REQUIRED) AND ALL OTHER FIRE ALARM DEVICES TO FIRE ALARM SYSTEM.
4. COORDINATE ROUTING OF ALL PIPING, TEST CONNECTIONS, AND AUXILIARY DRAIN LINES WITH OTHER TRADES. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS, ETC. PER NFPA 70.
5. PROVIDE AUXILIARY DRAINS PER NFPA 13. ALL MAIN DRAINS, SECTIONAL DRAINS, INSPECTOR TEST CONNECTIONS, AND AUXILIARY DRAINS (MORE THAN 100 GALLON TAPPED VOLUME) SHALL DISCHARGE DIRECTLY TO THE EXTERIOR WITH APPROPRIATE SPLASH PROTECTION. WORKING DRAWINGS SHALL INDICATE LOCATION OF ALL TEST/DRAIN VALVES AND DISCHARGE POINTS.
6. PIPING SHALL BE ASTM A53 SCHEDULE 40 BLACK STEEL PIPE FOR WELDED, THREADED AND GROOVED FITTINGS ONLY OR ASTM A135 OR A795 SCHEDULE 10 BLACK STEEL PIPE FOR WELDED OR ROLLED GROOVE FITTINGS ONLY. ALL PIPING SERVING A SINGLE SPRINKLER SHALL BE 1" PIPE SIZE MINIMUM PER NFPA 13.
7. SPRINKLERS IN INTERIOR SPACES WITH FINISHED CEILINGS SHALL BE CHROME RECESSED PENDENT WITH MATCHING CHROME ESCUTCHEON, ORDINARY TEMPERATURE UNLESS OTHERWISE REQUIRED PER NFPA 13, AND SHALL BE CENTERED IN CEILING TILE. SPRINKLERS IN AREAS WITHOUT CEILINGS SHALL BE PENDENT OR UPRIGHT PER NFPA 13.
8. PROVIDE SPRINKLER GUARDS ON ALL SPRINKLERS INSTALLED LESS THAN 7 FT. ABOVE FINISHED FLOORS AND OTHER AREAS WHERE REQUIRED BY NFPA 13.
9. SUPPORT ALL PIPING FROM STRUCTURE AND PROVIDE HANGERS AND BRACING PER NFPA 13. PIPING SHALL BE SUPPORTED FROM TOP CHORD OF BEAMS, TRUSSES, JOISTS, ETC.
10. PROVIDE SHOP DRAWINGS, WORKING PLANS AND HYDRAULIC CALCULATIONS FOR ALL SYSTEMS PER NFPA 13.
11. SHOP DRAWINGS, WORKING PLANS, AND HYDRAULIC CALCULATIONS SHALL BE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CERTIFIED AS A LEVEL III ENGINEERING TECHNICIAN BY THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) IN THE AUTOMATIC SPRINKLER SYSTEM LAYOUT SUBFIELD OF FIRE PROTECTION ENGINEERING TECHNOLOGY.
12. PROVIDE MINIMUM 3'-0" CLEAR ACCESS TO ALL VALVES AND EQUIPMENT.
13. PERFORM ACCEPTANCE TESTING OF ALL SYSTEMS AND COMPONENTS IN ACCORDANCE WITH SPECIFICATIONS AND NFPA 13 UPON COMPLETION OF CONSTRUCTION.
14. CONTRACTOR SHALL CONDUCT WATER SUPPLY FLOW TEST IN ACCORDANCE WITH NFPA 291 PRIOR TO BEGINNING WORK TO VERIFY WATER SUPPLY DATA PROVIDED ON THE DRAWINGS. IF FLOW TEST INDICATES GREATER WATER SUPPLY CAPACITY THAN THAT PROVIDED ON THE DRAWINGS, CONTRACTOR SHALL DESIGN SYSTEMS BASED ON WATER SUPPLY DATA PROVIDED. IF FLOW TEST INDICATES LESSER WATER SUPPLY CAPACITY THAN THAT PROVIDED ON THE DRAWINGS, CONTRACTOR SHALL DESIGN SYSTEMS BASED ON FLOW TEST DATA.
15. PROVIDE APPROVED DOUBLE DETECTOR CHECK BACKFLOW PREVENTER ON FIRE WATER SERVICE MAIN TO THE SITE IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE AND LOCAL REQUIREMENTS.
16. PROVIDE METAL CABINET WITH STOCK OF SPARE SPRINKLERS AND WRENCHES PER NFPA 13 AT EACH BUILDING RISER.
17. PROVIDE IDENTIFICATION SIGNS FOR ALL CONTROL, DRAIN AND TEST VALVES PER NFPA 13. WHERE VALVES AND DEVICES ARE LOCATED ABOVE CEILINGS, PROVIDE AND ATTACH LEGIBLE TYPED LABEL TO THE CEILING INDICATING DEVICE TYPE.
18. POINT OF SERVICE IS THE 8" TEE INTO THE EXISTING 10" WATER MAIN AT THE STREET, UPSTREAM OF THE BACKFLOW PREVENTER.
19. THERE ARE NO KNOWN INSTANCES OF MICROBIAL INDUCED CORROSION (MIC) IN THE PROJECT AREA.

FIRE PROTECTION LEGEND



WATER SUPPLY ANALYSIS

A. FLOW TEST RESULTS

DATE OF TEST	16 DEC 2015
TESTED BY	CITY OF TITUSVILLE
STATIC PRESSURE	46 PSI
RESIDUAL PRESSURE	32 PSI
MEASURED FLOW	1,890 GPM
CALCULATED FLOW	2,641 GPM @ 20 PSI

FLOW HYDRANT: 1525 ARMSTRONG DR., #3-4H-7
RESIDUAL HYDRANT: 1525 ARMSTRONG DR., #3-4H-6

B. BUILDING FIRE FLOW CALCULATION (FLORIDA FIRE PREVENTION CODE, CHAPTER 18)

BUILDING IS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLERS PER NFPA 13

BUILDING CONSTRUCTION TYPE:	TYPE IIB (000)
BUILDING AREA:	40,500 SQ. FT.
BUILDING FIRE FLOW:	4,250 GPM (FFPC TABLE 18.4.5.1.2)
SPRINKLER REDUCTION PER FFPC 18.4.5.2.1:	$4,250 \times 25\% = 1,062.5$ GPM

MINIMUM BUILDING FIRE FLOW REQUIRED: 1,062 GPM
MINIMUM BUILDING FIRE FLOW DURATION: 4 HOURS

C. PRELIMINARY SPRINKLER HYDRAULIC CALCULATION

ESTIMATED FLOW CALCULATION:

OH2 SPRINKLER DENSITY	=	0.20 GPM/SQ. FT.
DESIGN AREA	=	1,500 SQ. FT.
ESTIMATED SPRINKLER FLOW	=	$0.20 * 1500 * 120\% = 360$ GPM
HOSE STREAM ALLOWANCE	=	250 GPM
TOTAL FIRE PROTECTION FLOW	=	610 GPM

ESTIMATED PRESSURE LOSS:		
STARTING SPRINKLER PRESSURE	=	11 PSI (K=8.0)
ELEVATION LOSS @ 20 FT. * 0.433 PSI / FT	=	9
BACKFLOW PREVENTER LOSS	=	8
SAFETY FACTOR	=	<u>5</u>
TOTAL REQUIRED PRESSURE (EXCLUDING FRICTION)	=	33 PSI

AVAILABLE PRESSURE AT DEMAND FLOW RATE:

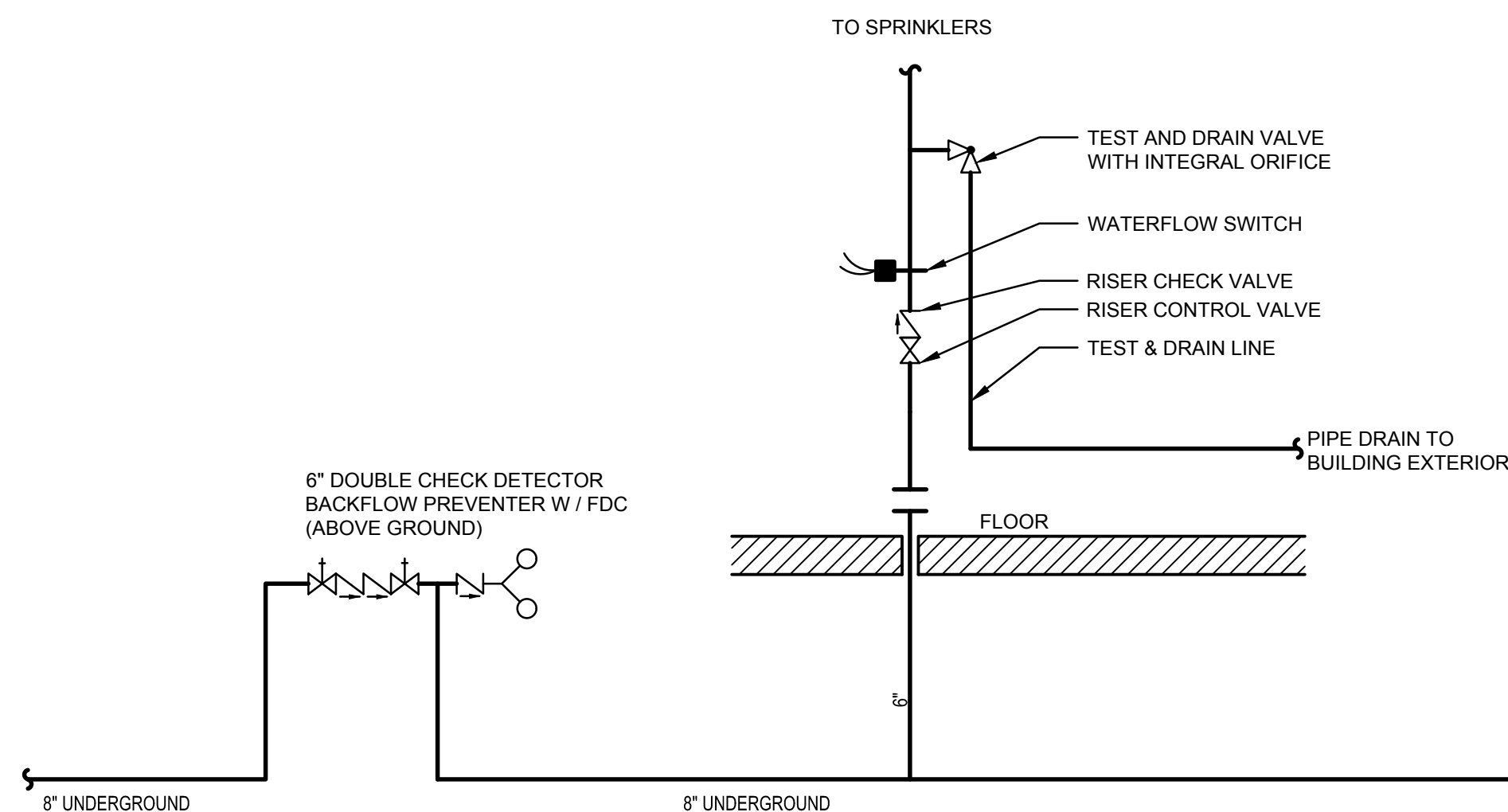
QR	=	REQUIRED FLOW RATE AT DEMAND PRESSURE
QT	=	TEST FLOW RATE
PDR	=	PRESSURE DROP AT DEMAND FLOW RATE
PDT	=	PRESSURE DROP AT TEST FLOW RATE

$$\begin{aligned} \text{PDR} &= \text{PDT} * (\text{QR}/\text{QT})^{1.85} \\ \text{PDR} &= 14 \text{ PSI} * (610 / 1890)^{1.85} = 1.7 \text{ PS} \end{aligned}$$

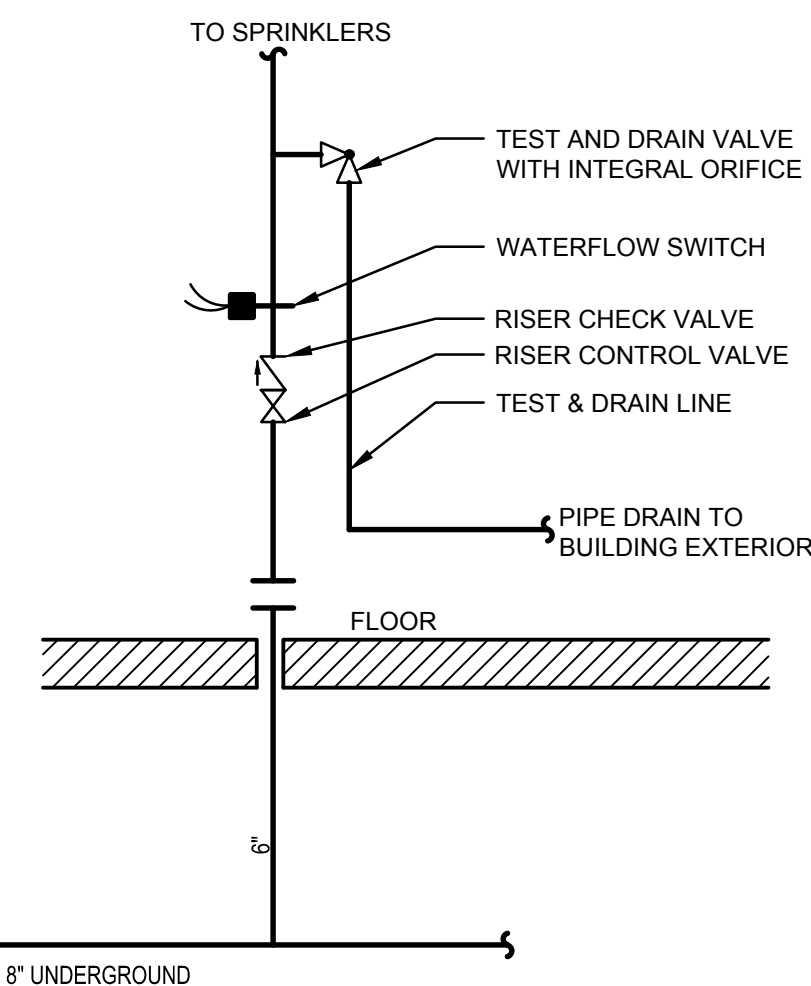
AVAILABLE PRESSURE @ 610 GPM = 46 - 1.7 = 44.3 PSI
AVAILABLE PRESSURE FOR FRICTION = 44.3 - 33 = 11.3 PSI

BASED UPON THE CURRENT FLOW TEST DATA, THERE IS APPROXIMATELY 11 PSI AVAILABLE FOR FRICTION LOSSES, INCLUDING THE UNDERGROUND SUPPLY. THE WATER SUPPLY IS ADEQUATE TO MEET SYSTEM DEMAND REQUIREMENTS WITHOUT THE USE OF A FIRE PUMP.

PRODUCTION BUILDING



ADMINISTRATION BUILDING



A2
F100

OVERALL FIRE PROTECTION SCHEMATIC PIPING DIAGRAM

SCALE: NTS

[illegible]

RS&H		DESIGNED BY:		DATE:
115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 757-622-1859 www.rsandh.com		SVL	REQ BY:	03/03/2016
		SVL	SWD	
		SUBMITTED BY:		
		TDG		
		PROJECT NAME:		
		SIZE:	PLOT SCALE:	PLOT DATE:



115 ALMA BLVD, SUITE 101
MERRITT ISLAND, FL 32953



**FIRE PROTECTION
NOTES, LEGENDS AND
ABBREVIATIONS -
PRODUCTION**

PLATE
REFERENCE
NUMBER
F001
SHEET of

D

C

B

A

