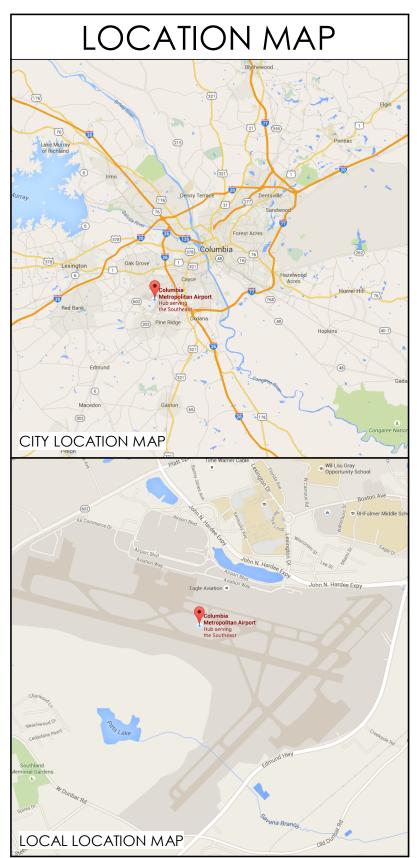
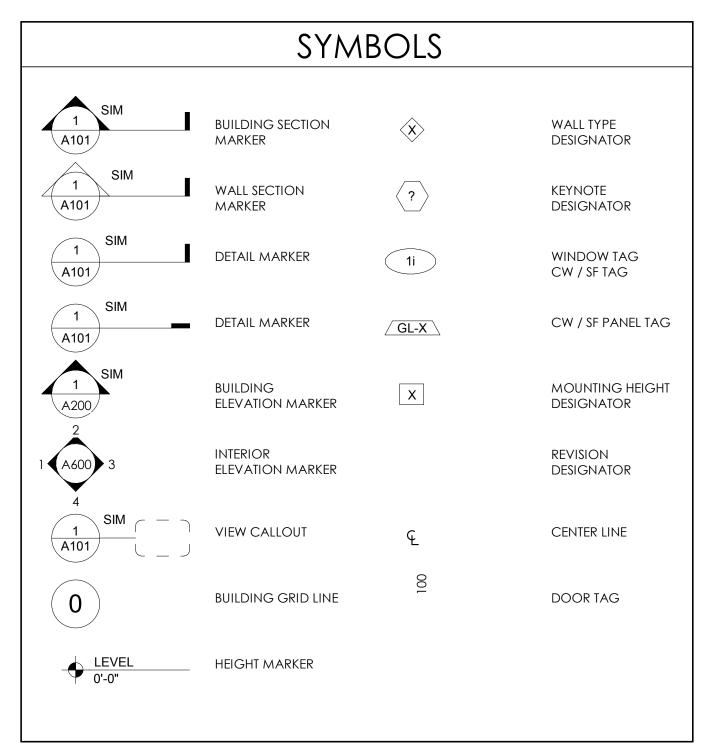
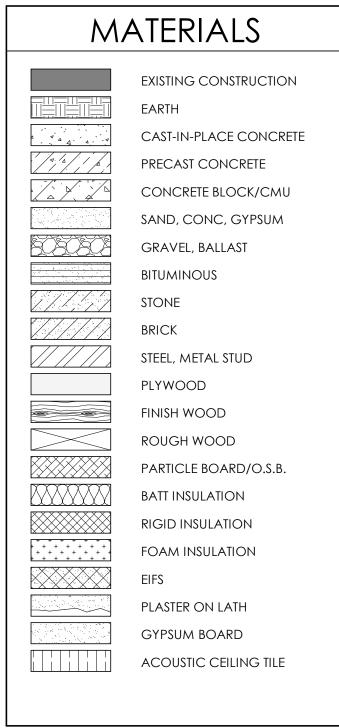
### 2019 INBOUND BHS IMPROVEMENTS

COLUMBIA METROPOLITAN AIRPORT 3250 AIRPORT BOULEVARD WEST COLUMBIA, SC 29170







	A	ABB	REVIATIONS		
CONT	ABOVE ACOUSTICAL CEILING PANEL ABOVE FINISHED FLOOR ALUMINUM BUILDING BLOCKING BOTTOM OF BID PACKAGE BRACKET CAST IN PLACE CEILING CONCRETE MASONRY UNIT CONCRETE CONTINUOUS COORDINATE CERAMIC TILE CURTAIN WALL DETAIL DIAMETER DIMENSIONS DOWN DOWN SPOUT EACH EXPANSION JOINT ELEVATION ELECTRICAL EQUAL EQUIPMENT EXISTING EXPOSED EXTERIOR FLUID APPLIED FLOOR FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FINISH FLOOR FINISH FLOOR FACE OF FIELD VERIFY FOOTING GALVANIZED GENERAL CONTRACTOR	INT JT KO LOC MAX MECH MFR MIN MO MP MR MTL MULL NOM NTS OC OFD OFS OH PC PLAM PLYWD	GYPSUM WALL BOARD HOLLOW METAL HEIGHT INSIDE DIAMETER INSULATION INTERIOR JOINT KNOCK OUT LOCATION MAXIMUM MECHANICAL MANUFACTURER MINIMUM MOUNTED MASONRY OPENING METAL PANEL MOISTURE RESISTANT METAL MULLION NOT IN CONTRACT NOMINAL NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVER FLOW DRAIN OVER FLOW SCUPPER OVERHEAD PRECAST PLASTIC LAMINATE PLYWOOD PREFINISHED PAINT RADIUS ROOF DRAIN ROOF DRAIN ROOF DRAIN LEADER REINFORCED/REINFORCING REQUIRED REVERSE ROOM ROUGH OPENING SHEET SIMILAR SEALED CONCRETE	TAC TEMP TO TS TYP UG	SPACE SOLID SURFACE STAINLESS STEEL STEEL STRUCTURE TEXTURED ACRYLIC COATING TEMPORARY TOP OF TUBE STEEL TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE VINYL BASE VERTICAL VERIFY VAPOR RETARDER WITH WOOD WALK-OFF MAT WINDOWSHADE

GENERA G001	TITLE SHEET				
G101	REFERENCE PLANS				
ARCHITE	CTURAL				
A001 FLOOR PLAN - BAGGAGE CLAIM PHASING					
A002	RCP - BAGGAGE CLAIM PHASING				
BHS					
B.IS.01	ABBREVIATIONS, GENERAL NOTES AND DRAWING I				
B.IS.02	CONVEYOR LEGENDS, SYMBOLS AND MOTOR LIST				
B.IS.03	CONVEYOR LEGENDS, SYMBOLS AND MOTOR LIST				
B1.1.00	OVERALL PLAN VIEW				
B1.1.01	PLAN VIEW - LOAD CONVEYORS				
B1.1.02	PLAN VIEW - 1B1 AND CD1				
B1.1.03	PLAN VIEW - IB2 AND CD2				
B1.1.04	PLAN VIEW - IB3 AND CD3				
B4.1.01	ELEVATIONS - LOAD CONVEYORS - IB1, IB2 AND IB3				
B5.1.00	ELECTRICAL DEVICE STANDARDS				
B5.1.01	PLAN VIEW - ELECTRICAL COMPONENTS				
B5.1.02	PLAN VIEW - ELECTRICAL COMPONENTS				
B6.1.00	FLOOR COMPONENT DETAILS				
B6.1.01	DOOR DETAILS				

HEET INDEX	PROJECT TEAM
EPLANS	CIVIL ENGINEER / PROGRAM MANAGER FOTH INFRASTRUCTURE & ENVIRONMENT, LLC 101 TRADE ZONE DRIVE, STE 16A COLUMBIA, SC 29170 PH: (803) 250-4846
N - BAGGAGE CLAIM PHASING GAGE CLAIM PHASING	ARCHITECT  MILLER DUNWIDDIE  100 WASHINGTON AVENUE SOUTH, SUITE 500  MINNEAPOLIS, MN 55401  PH: (612) 337-0000 FAX: (612) 337-0031
R LEGENDS, SYMBOLS AND MOTOR LIST R LEGENDS, SYMBOLS AND MOTOR LIST LAN VIEW - LOAD CONVEYORS - 1B1 AND CD1	BAGGAGE HANDLING SYSTEM CONSULTANT JSM & ASSOCIATES 730 EAST 5TH AVENUE MOUNT DORA, FL 32757 PH: (352) 383-2600
- IB2 AND CD2 - IB3 AND CD3 S - LOAD CONVEYORS - IB1, IB2 AND IB3 L DEVICE STANDARDS - ELECTRICAL COMPONENTS - ELECTRICAL COMPONENTS MPONENT DETAILS	







00 Washington Ave South, Suite 500 linneapolis, Minnesota 55401 12 337 0000

CONFORM SET

REPRINTED 8/2/2019

COLUMBIA METROPOLITA AIRPORT 2019 INBOUND BHS IMPROVEMENTS

ı	No.	Date	Description
	1		CONFORM SET
ı			
	JOE	NUMBER: .	FIE1802

 JOB NUMBER:
 FIE1802

 DESIGNED BY:
 JTS

 CHECKED BY:
 JTS

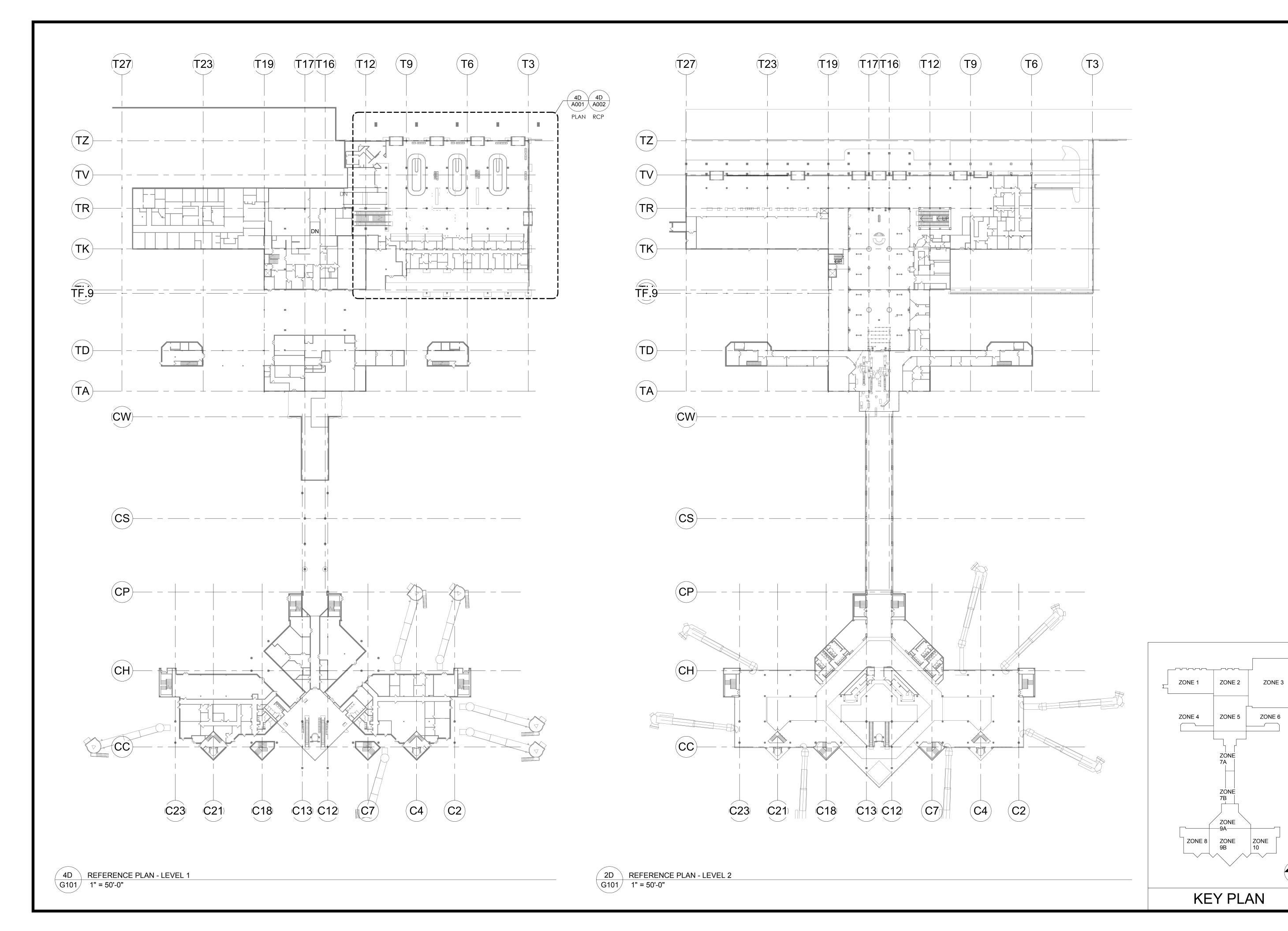
 DRAWN BY:
 ECS

 CAD DATE:
 04/22/19

TITLE SHEET

PROJECT NUMBER: FIE1802
PROJECT DATE: 4/22/2019
DRAWING NUMBER:

G001

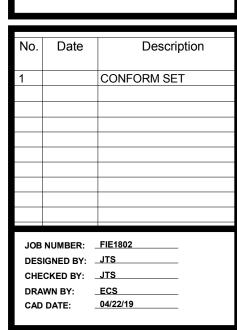








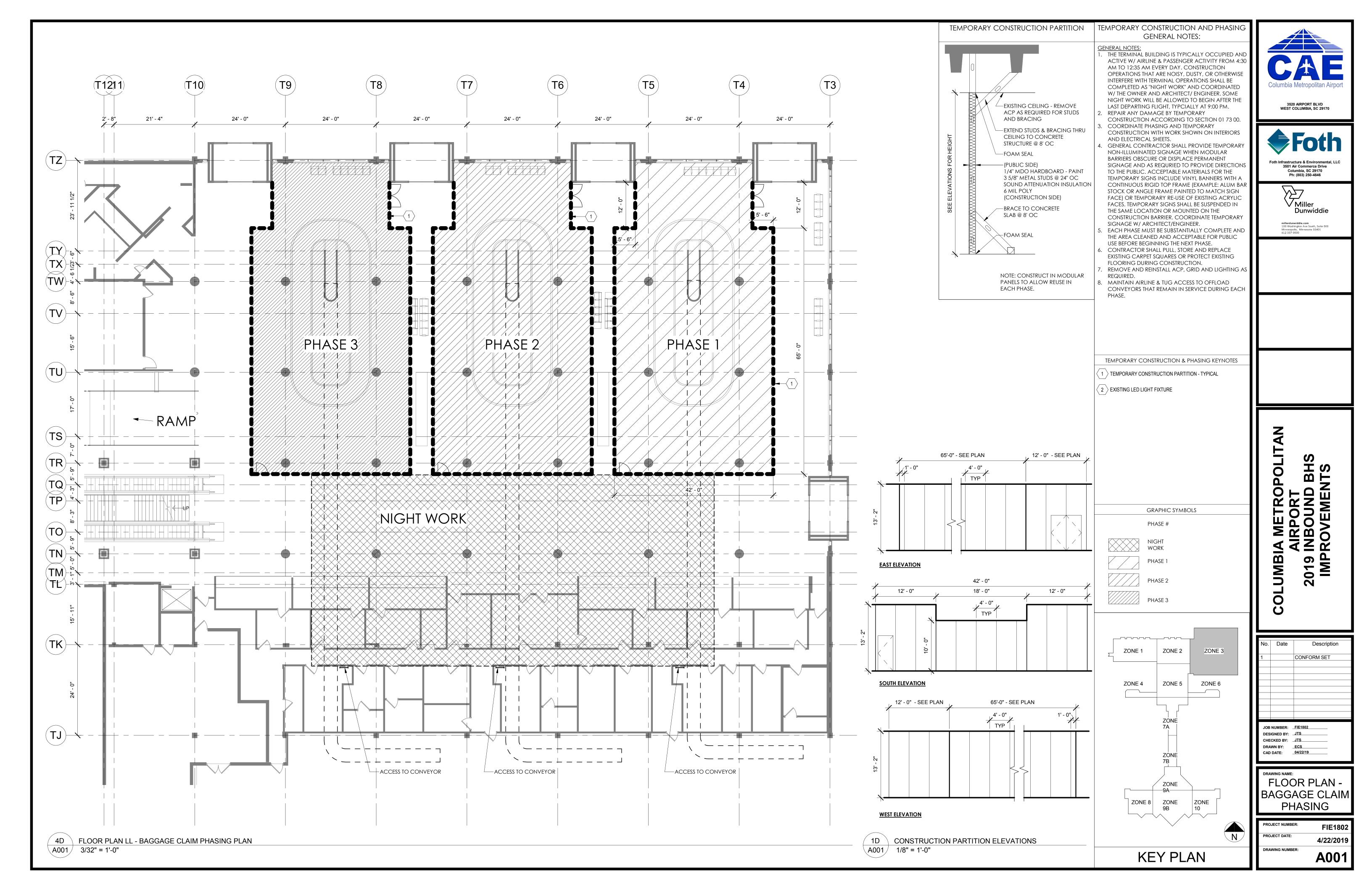
### COLUMBIA METROPOLITA AIRPORT 2019 INBOUND BHS IMPROVEMENTS

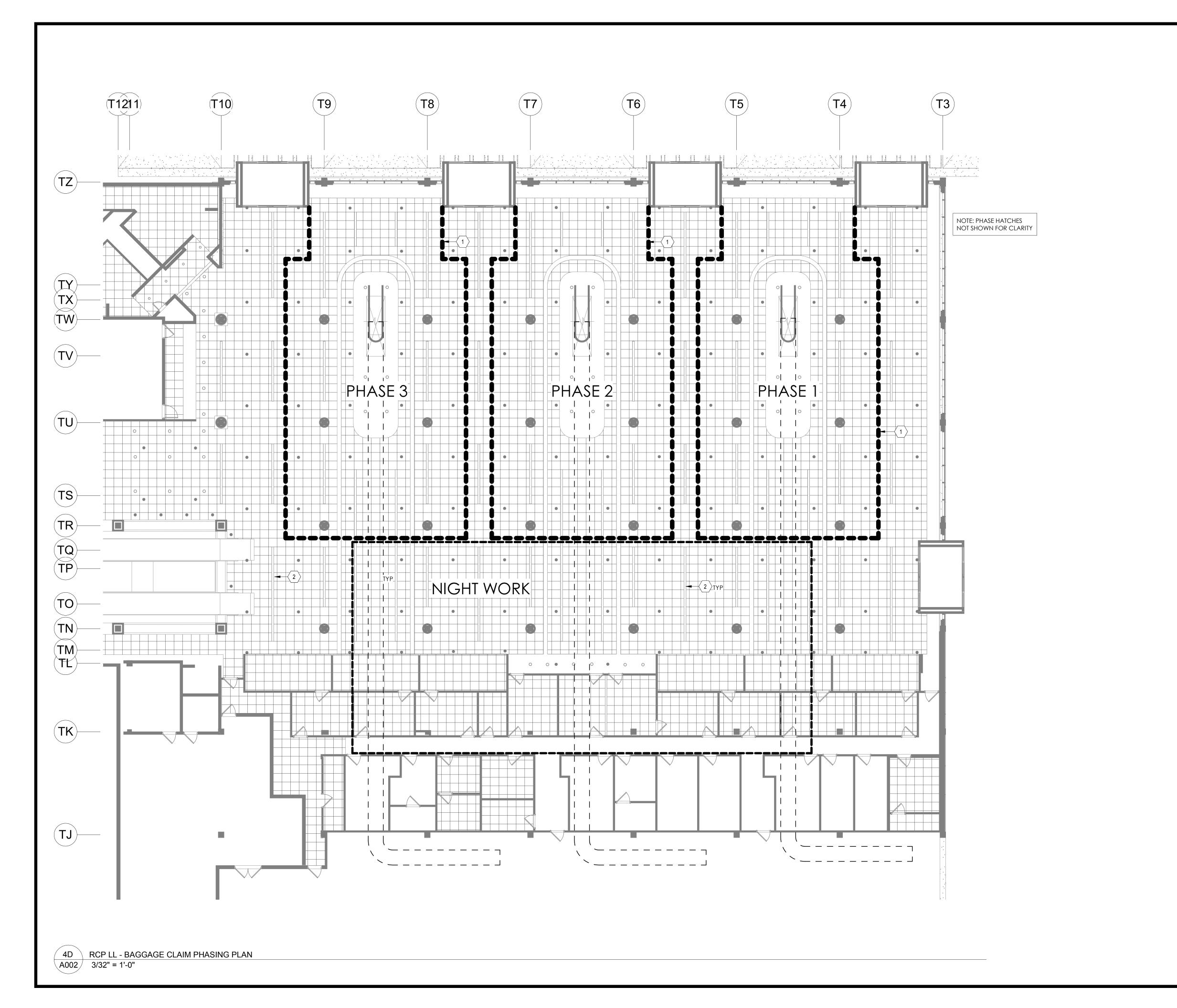


REFERENCE PLANS

PROJECT NUMBER: FIE1802
PROJECT DATE: 4/22/2019
DRAWING NUMBER: G101

N





### TEMPORARY CONSTRUCTION AND PHASING GENERAL NOTES:

### GENERAL NOTES:

- 1. THE TERMINAL BUILDING IS TYPICALLY OCCUPIED AND ACTIVE W/ AIRLINE & PASSENGER ACTIVITY FROM 4:30 AM TO 12:35 AM EVERY DAY. CONSTRUCTION OPERATIONS THAT ARE NOISY, DUSTY, OR OTHERWISE INTERFERE WITH TERMINAL OPERATIONS SHALL BE COMPLETED AS "NIGHT WORK" AND COORDINATED W/ THE OWNER AND ARCHITECT/ ENGINEER. SOME NIGHT WORK WILL BE ALLOWED TO BEGIN AFTER THE LAST DEPARTING FLIGHT, TYPCIALLY AT 9:00 PM.
- 2. REPAIR ANY DAMAGE BY TEMPORARY

  CONSTRUCTION ACCORDING TO SECTION 01 73 00.

  COORDINATE PHASING AND TEMPORARY
- COORDINATE PHASING AND TEMPORARY
   CONSTRUCTION WITH WORK SHOWN ON INTERIORS
   AND ELECTRICAL SHEETS.
   GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY
- 4. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY NON-ILLUMINATED SIGNAGE WHEN MODULAR BARRIERS OBSCURE OR DISPLACE PERMANENT SIGNAGE AND AS REQURIED TO PROVIDE DIRECTIONS TO THE PUBLIC. ACCEPTABLE MATERIALS FOR THE TEMPORARY SIGNS INCLUDE VINYL BANNERS WITH A CONTINUOUS RIGID TOP FRAME (EXAMPLE: ALUM BAR STOCK OR ANGLE FRAME PAINTED TO MATCH SIGN FACE) OR TEMPORARY RE-USE OF EXISTING ACRYLIC FACES. TEMPORARY SIGNS SHALL BE SUSPENDED IN THE SAME LOCATION OR MOUNTED ON THE CONSTRUCTION BARRIER. COORDINATE TEMPORARY SIGNAGE W/ ARCHITECT/ENGINEER
- SIGNAGE W/ ARCHITECT/ENGINEER.
  EACH PHASE MUST BE SUBSTANTIALLY COMPLETE AND
  THE AREA CLEANED AND ACCEPTABLE FOR PUBLIC
  USE BEFORE BEGINNING THE NEXT PHASE.
- EXISTING CARPET SQUARES OR PROTECT EXISTING FLOORING DURING CONSTRUCTION.
- REMOVE AND REINSTALL ACP, GRID AND LIGHTING AS REQUIRED.
- 8. MAINTAIN AIRLINE & TUG ACCESS TO OFFLOAD CONVEYORS THAT REMAIN IN SERVICE DURING EACH PHASE.



1 TEMPORARY CONSTRUCTION PARTITION - TYPICAL

2 EXISTING LED LIGHT FIXTURE

GRAPHIC SYMBOLS

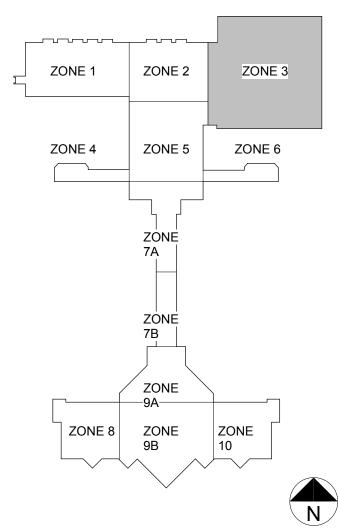
PHASE #

NIGHT
WORK

PHASE 1

PHASE 2

PHASE 3



ΡΙΛΝΙ



3520 AIRPORT BLVD WEST COLUMBIA, SC 29170





millerdunwiddie.com 100 Washington Ave South, Suite 50 Minneapolis, Minnesota 55401 612 337 0000

COLUMBIA METROPOLITA AIRPORT 2019 INBOUND BHS IMPROVEMENTS

No.	Date	Description
1		CONFORM SET
JOB	NUMBER:	FIE1802
DES	IGNED BY:	JTS
		JTS
		F00

DRAWING NAME:

RCP - BAGGAGE CLAIM PHASING

PROJECT NUMBER: FIE1802
PROJECT DATE: 4/22/2019
DRAWING NUMBER: A002

KEY PLAN

### **ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MFG	MANUFACTURER
ARCH	PROJECT ARCHITECT	MIN	MINIMUM
ATR	AUTOMATIC TAG READER	MCP	MOTOR CONTROL PANEL
ВС	BAG CLEARANCE	MSD	MOTOR SWITCH DISCONNECT
BMA	BAG MEASURING ARRAY	NIC	NOT IN CONTRACT
BG	BETWEEN SIDEGUARDS	NTS	NOT TO SCALE
BHS	BAGGAGE HANDLING SYSTEM	OC	ON CENTER
BLDG	BUILDING	OIT	OPERATOR INTERFACE TERMINAL
BOS	BOTTOM OF STEEL	OPS	OPERATIONS
BSD	BAG STATUS DISPLAY	os	OVERSIZED
CL	CENTER LINE	PDP	POWER DISTRIBUTION PANEL
CLR	CLEAR	PSF	POUNDS PER SQUARE FOOT
COL	COLUMN	PT	POWER TURN
CONC	CONCRETE	QUE	QUEUING CONVEYOR
CONT	CONTINUOUS	REF	REFERENCE
CONV	CONVEYOR	REQD	REQUIRED
CS	CURBSIDE	REV	REVISION
DIA	DIAMETER	RI	REINSERTION LINE
DSG	DOUBLE SIDE GUARD	ROW	RIGHT OF WAY
DWG	DRAWING	SACS	SECURITY ACCESS CONTROL SYSTEM
EDS	EXPLOSIVE DETECTION SYSTEM	SCH	SCHEDULE
EL	ELEVATION	SIM	SIMILAR
ELEC	ELECTRICAL	SPT	SPIRAL POWER TURN
ENGR	ENGINEER OF RECORD	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	SSD	SYSTEM STATUS DISPLAY
ETD	EXPLOSIVE TRACE DEVICE	SSG	SINGLE SIDE GUARD
FD	FIRE DOOR	STA	STATION
FF	FINISH FLOOR	svs	SECONDARY VIEWING STATION
FT	FOOT	TC	TICKET COUNTER
GA	GUAGE	TEMP	TEMPORARY
GALV	GALVANIZED	TERM	TERMINAL
GC	GENERAL CONTRACTOR	ТОВ	TOP OF BELT
HP	HORSEPOWER	TOC	TOP OF CONCRETE
INCL	INCLINE	TOP	TOP OF PLATFORM/PAN
INT'L	INTERNATIONAL	TOS	TOP OF STEEL
IR	INSIDE RADIUS	TSA	TRANSPORTATION SECURITY AGENCY
LBS	POUNDS	TYP	TYPICAL
LIN	LINEAR	UL	UNDERWRITER'S LABORATORY
MAINT	MAINTENANCE	VIF	VERIFY IN FIELD
MAX	MAXIMUM	VFD	VARIABLE FREQUENCY DRIVE
		VSU	VERTICAL SORTATION UNIT

### **ENGINEER NOTES**

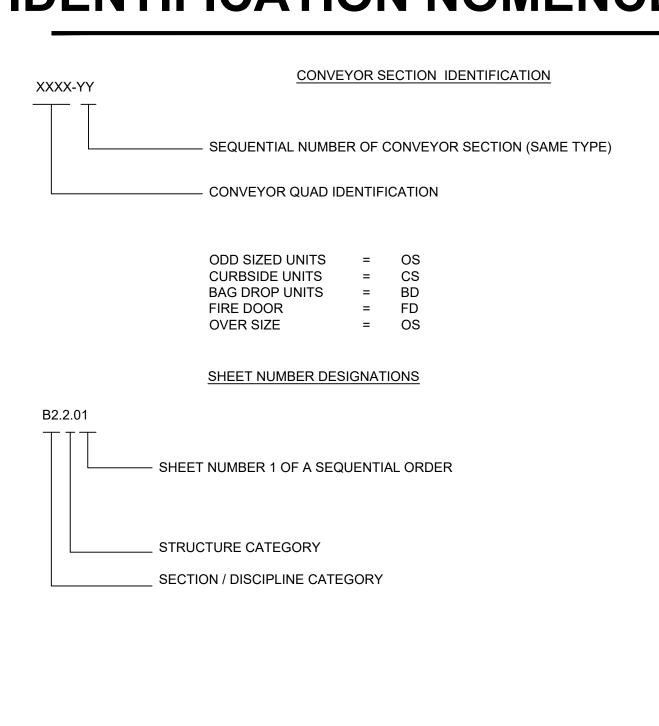
### CONTRACTOR DOCUMENTS AND SPECIFICATIONS

THE CONTRACTOR IS HEREBY NOTIFIED THAT ESSENTIAL AND PERTINENT INFORMATION REGARDING THE CONSTRUCTION AND COMPLETION OF WORK FOR THIS PROJECT IS CONTAINED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. REGARDLESS OF DISCIPLINE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO READ AND REVIEW THIS INFORMATION TO HIS OWN SATISFACTION PRIOR TO PERFORMING ANY WORK. ANY DEFICIENT, INCOMPLETE OR INCORRECT WORK SHALL BE REDONE TO MEET SAID REQUIREMENTS AT THE CONTRACTOR'S SOLE EXPENSE.

### **CONTROL SYSTEM NOTES**

- A. PROVIDE AND INSTALL START-UP BEACONS, JAM/E-STOP BEACONS AND HORNS AS REQUIRED.
- B. THE CONTROL SCHEDULE IN THESE DRAWINGS MAY NOT INDICATE ALL OF THE REQUIRED CONTROL STATIONS OR EQUIPMENT. THEY ARE INTENDED FOR REFERENCE ONLY AND INDICATE EITHER THE PREFERRED OR REQUIRED LOCATIONS OF SOME OF THE CONTROL STATIONS REFERENCES IN THE CONTRACT DOCUMENTS. THE CONTROL SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT OF THE CONTROL SYSTEMS AND REFER TO THE DRAWINGS FOR THE REQUESTED CONTROL STATION LOCATIONS AND EQUIPMENT UNLESS THEY ARE IN CONFLICT WITH OTHER REQUIREMENTS. DEVIATIONS FROM THE LOCATIONS SHOWN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE.
- C. FOR ALL E-STOPS IN CLAIM AREAS, PROVIDE A COVER ON THE STATION THAT ALLOWS UNRESTRICTED ACCESS TO THE E-STOP PUSHBUTTON, BUT DOES NOT ALLOW ACCIDENTAL ACTIVATION BY INADVERTENT BUMPING. E-STOP RESET IN PUBLIC AREAS.
- D. THE BHS SHALL INTERFACE THE FIRE ALARM SYSTEM AND THE SECURITY ACCESS CONTROL SYSTEM
   E. SECURITY-FIRE DOORS SHALL BE PROVIDED AS PART OF THE BHS CONTRACT. THE DOOR WILL BE CONTROLLED BY BHS CONTROL SYSTEM.
- F. THE B5-SERIES SHEETS DEPICT THE CONTROLS OF CERTAIN SUBSYSTEMS. OTHER SUBSYSTEMS ALSO REQUIRE NEW OR MODIFIED CONTROLS EQUIPMENT/FUNCTIONS. PROVIDE CONTROLS FOR ALL NEW CONVEYOR EQUIPMENT OF THIS PROJECT.
- G. THE BHS CONTROL SYSTEM SHALL COMPLY WITH THE PGDS VERSION 6.

### IDENTIFICATION NOMENCLATURE



NOTE: NOT ALL DRAWING SERIES APPLY IN ALL PACKAGE PHASES

### BAGGAGE CONVEYOR:

- S GENERAL INFORMATION, LEGEND, SYMBOLS, NOTES, ETC.
- OVERALL PLANS, PARTIAL PLANS CONVEYOR PHASING PLANS
- 3 EDS REMOVAL AND EGRESS PLANS
- ELEVATIONS ELECTRICAL
- DETAILS
- CATWALK

SEE BHS B1-SERIES FOR PARTIAL PLAN VIEWS SHOWING ELEVATIONS AND DIMENSIONS.

SEE BHS B2-SERIES FOR PHASING DETAILS.

SEE BHS B4-SERIES FOR ELEVATION VIEWS SHOWING ELEVATIONS AND DIMENSIONS.

SEE BHS B5-SERIES FOR ELECTRICAL DETAILS.

SEE BHS B6-SERIES FOR EQUIPMENT DETAILS.

### **GENERAL NOTES**

THE FOLLOWING APPLIES IN ADDITION TO THE PROJECT SPECIFICATIONS AND BHS DRAWINGS:

- A. PRIOR TO ENGINEERING AND FABRICATION OF BHS THE CONTRACTOR SHALL FIELD VERIFY ALL BHS RELATED DIMENSIONS AND EXISTING CONDITIONS ON THE JOB SIGHT. THE CONTRACTOR IS TO BE RESPONSIBLE FOR DIMENSIONAL ACCURACY. CONFLICTS SHALL BE BROUGHT TO THE OWNER'S AND/OR OWNER'S REPRESENTATIVE ATTENTION IMMEDIATELY UPON DISCOVERY. ALL BAGGAGE SYSTEMS WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR FOR THE BUILDING CONTRACT. BHS (DEMO AND NEW INSTALLATION) SHALL BE COORDINATE WITH OWNER. OPERATIONAL IMPACTS SHALL BE KEPT TO A MINIMUM. THE PORTERING REQUIREMENTS ARE LISTED IN THE SPECS.
- B. DRAWING DIMENSIONS SHALL NOT BE SCALED, DIMENSIONS SHOWN SHALL BE USED.
- C. ACTUAL BELT SPEEDS SHALL BE DETERMINED BY THE BHS CONTRACTOR IN ACCORDANCE WITH GOOD DESIGN PRACTICE AND SYSTEM THROUGHPUT REQUIREMENTS.
- D. A MINIMUM CLEARANCE OF 7'-6" ABOVE TUG/CART AND BAG MAKE-UP WORK AREAS SHALL BE PROVIDED. CLEARANCE SHALL BE TO THE LOWEST OBSTRUCTION OF THE BAGGAGE SYSTEMS INCLUDING, BUT NOT LIMITED TO, DRIVES, CATWALKS, PULL DOWN LADDERS, AND SUPPORT STRUCTURE.
- E. BHS CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN BAGGAGE SYSTEM RIGHT-OF-WAY.

  F. BHS CONTRACTOR AND ALL OTHER TRADES TO MAINTAIN 3'-0" RIGHT OF WAY FROM TOP OF BELT TO NEAREST OBSTRUCTION. HANGING OF ANY EQUIPMENT COMPONENTS SUCH AS MECHANICAL, ELECTRICAL, PLUMBING OR HVAC FROM THE CONVEYOR, CATWALK OR ASSOCIATED SUPPORTS IS PROHIBITED.
- G. BHS CONTRACTOR TO FIELD VERIFY ALL TIE-IN LOCATIONS.
- H. CONVEYORS IN PUBLIC AREAS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES
- I. CONVEYOR SECTIONS SHALL BE FIELD CUT TO EXACT LENGTHS WHERE REQUIRED. FLARED SIDE GUARDS ARE TO BE LOCATED AFTER FIRE/SECUTITY DOORS. STAINLESS STEEL SHROUDING IS TO BE UTILIZED ON CONVEYORS IN THE PUBLIC AREA
- J. REFER TO TECHNICAL SPECIFICATION SECTION FOR THE BAGGAGE HANDLING SYSTEMS REQUIREMENTS. DEVIATIONS FROM THE LOCATIONS SHOWN SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- K. REFER TO BASE BUILDING ARCHITECTURAL AND OTHER DISCIPLINE DRAWINGS FOR COORDINATION INFORMATION.
- DEMO ALL REQUIRED CONVEYOR AND ASSOCIATED COMPONENTS PERTAINING TO EACH SYSTEM INCLUDING BUT NOT LIMITED TO CATWALKS, SUPPORTS, HANGING MATERIALS, ETC. DEMO ALL ASSOCIATED MCPs AND ELECTRICAL COMPONENTS. INCLUDING BUT NOT LIMITED TO WIRING, FIELD DEVICES, PHOTOEYES, ETC. ALL WIRING SHALL BE REMOVED TO THE SOURCE.

### **DRAWING INDEX**

SHEET#	REVISION	DRAWING NAME
B.IS.01	-	ABBREVIATIONS, GENERAL NOTES AND DRAWING INDEX
B.IS.02	ı	CONVEYOR LEGENDS, SYMBOLS AND MOTOR LIST
B.IS.03	ı	CONVEYOR LEGENDS, SYMBOLS AND MOTOR LIST
B1.1.00	ı	OVERALL PLAN VIEW
B1.1.01	-	PLAN VIEW - LOAD CONVEYORS
B1.1.02	_	PLAN VIEW - IB1 AND CD1
B1.1.03	ı	PLAN VIEW - IB2 AND CD2
B1.1.04	-	PLAN VIEW - IB3 AND CD3
B1.1.05	ı	PLAN VIEW - UNITED OUTBOUND DEMO
B4.1.01	ı	ELEVATIONS - LOAD CONVEYORS - IB1, IB2 AND IB3
B5.1.00	-	ELECTRICAL DEVICE STANDARDS
B5.1.01	-	PLAN VIEW - ELECTRICAL COMPONENTS
B5.1.02	_	PLAN VIEW - ELECTRICAL COMPONENTS
B6.1.00	_	FLOOR COMPONENT DETAILS
B6.1.01	_	DOOR DETAILS



3520 AIRPORT BLVD WEST COLUMBIA, SC 29170



Miller Dunwiddie
millerdunwiddie.com
100 Washington Ave South, Suite 500
Minnecpolis, Minnesoto SS401



SOLUMBIA METROPOLITA AIRPORT 2019 INBOUND BHS IMPROVEMENTS

No. Date Description

CONFORMING SET

DRAWING NAME:

ABBREVIATIONS
GENERAL NOTES

AND DRAWING INDEX

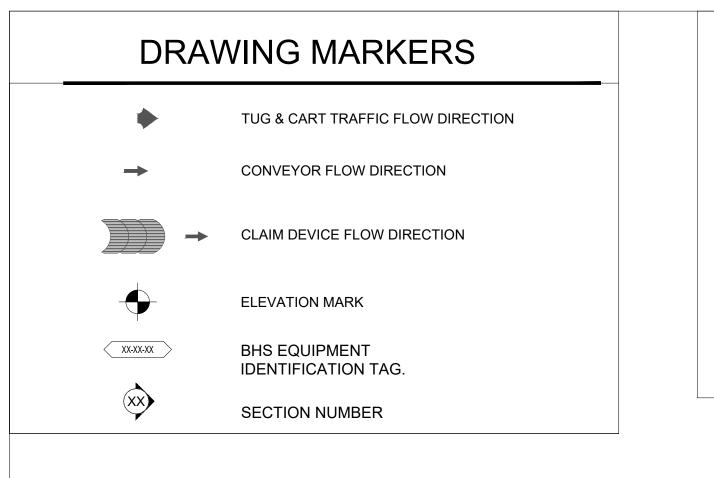
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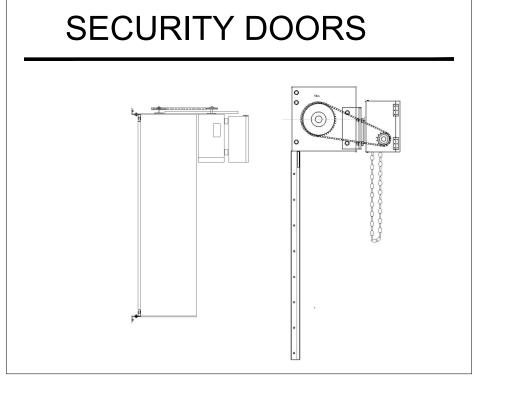
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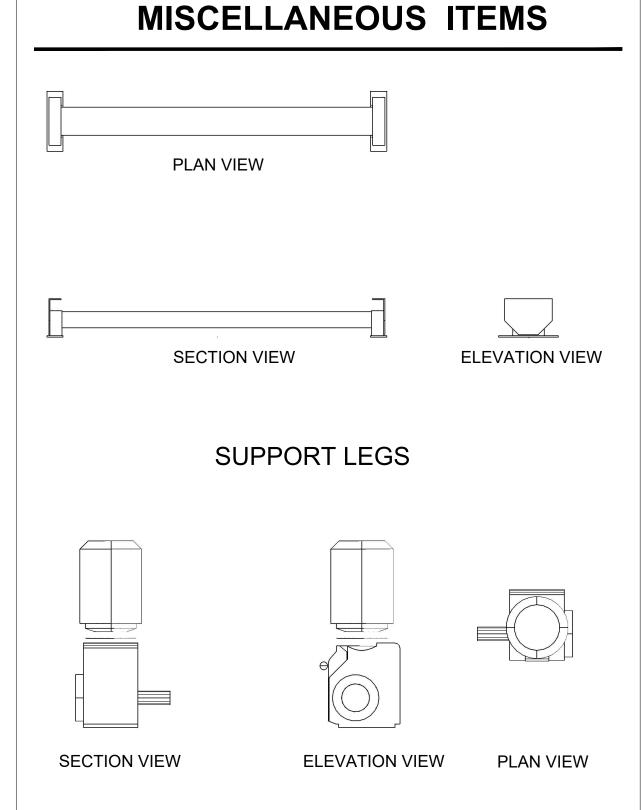
PROJECT DATE:

08/19/1

ABBREVIATIONS GENERAL NOTES AND DRAWING INDEX



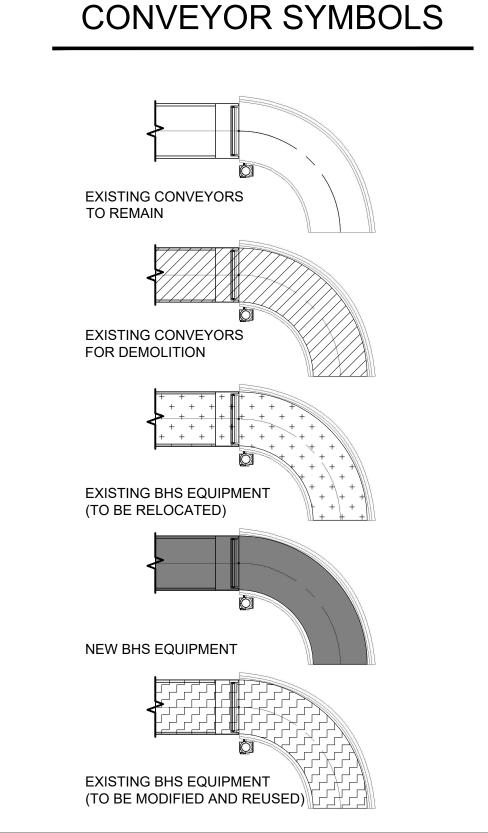


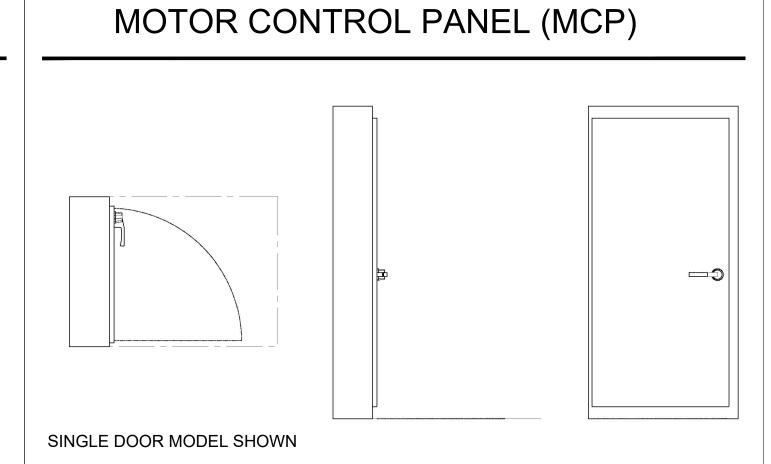


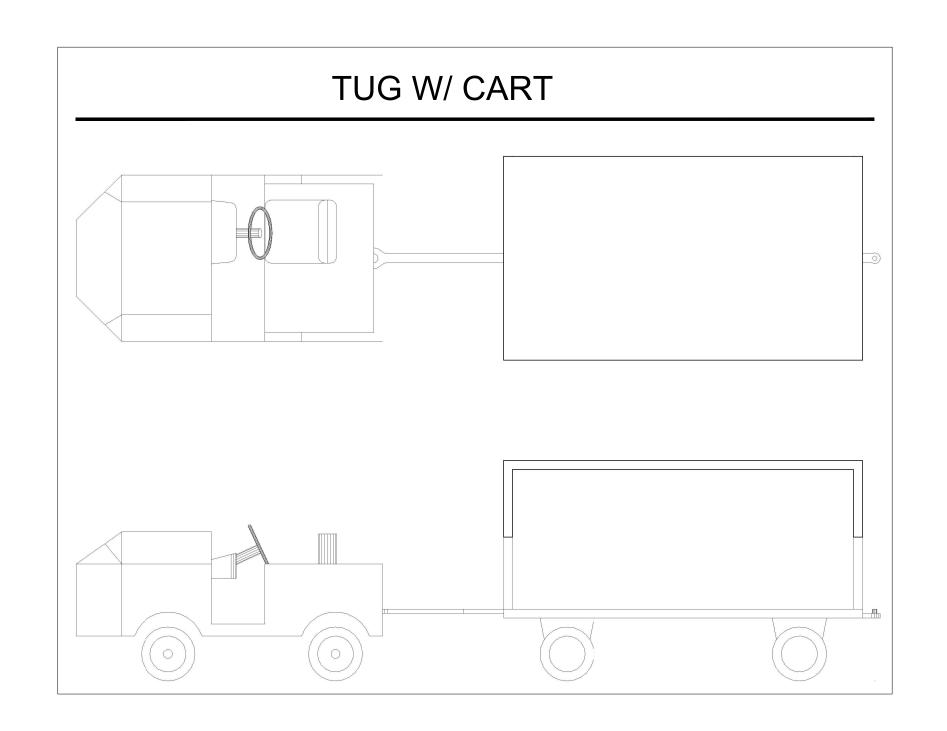
TYPICAL DRIVE MOTOR

### **MOTOR LIST**

TYPE	UNIT NO.	SUPPORT	INC/DCL	ELEV	LENGTH	BG (in)	SG (in)	SPEED	CONTROL	HP	FLA	
			(deg)	(ft)	(ft)			(ft/min)				
LOAD/UNLOAD	IB1-01	FLOOR	0	0	19.9	39	21	90	MS	2	3.1	
090PT	IB1-02	FLOOR	0	0	19.9	39	21	90	MS	2	3.1	
FIRE DOOR	FD-IB1	N/A		1.5	ور	N/A	N/A	N/A_	N/A	0.5		
TRANSPORT	IB1-03	HANGING	22	11	<sup>×</sup> 40	<sup>°</sup> 39	21 ~	110	MŠ/BRAKE	5	7.1	
TRANSPORT	IB1-04	HANGING	0	0	50	39	21	130	MS	5	0	]) /1
TRANSPORT	IB1-05	HANGING	22	-9.3	45	39	21	110	MS/BRAKE	3	0	\ <u>\</u>
INCLINED PLATE	CD-01	FLOOR	0	0	121	N/A	N/A	90	SOFT START	3	0	)
LOAD/UNLOAD	IB2-01	FLOOR	0	0	19.9	39	21	90	MS	2	3.1	
090PT	IB2-02	FLOOR	0	0	19.9	39	21	90	MS	2	3.1	
FIRE DOOR	FD-IB2	N/A	0	1.5	9	N/A	N/A	N/A	N/A	0.5	1.5	
TRANŠPORT	IBŽ-03	HANGING	2 <u>2</u>	11	40	39	21	110	MS/BRAKĚ	5 `	7.1	1
TRANSPORT	IB2-04	HANGING	0	0	50	39	21	130	MS	5	0	]) 🛕
TRANSPORT	IB2-05	HANGING	22	-9.3	45	39	21	110	MS/BRAKE	3	0	] <u>{                                    </u>
INCLINED PLATE	CD-02	FLOOR	0	0	121	N/A	N/A	90	SOFT START	3	0	])
												<u> </u>
LOAD/UNLOAD	IB3-01	FLOOR	0	0	19.9	39	21	90	MS	<u></u>	3.1	
090PT	IB3-02	FLOOR	0	0	19.9	39	21	90	MS	2	3.1	
FIRE DOOR	FD-IB3	N/A	0	1.5	9_	N/A	N/A	N/A	N/A	0.5	_1.5	
TRANSPORT	IB3-03	HANGING	22	11	40	√ 39 <sup>→</sup>	21	110	MS/BRAKE	5	7.1	1
TRANSPORT	IB3-04	HANGING	0	0	50	39	21	130	MS	5	0	]) ^
TRANSPORT	IB3-05	HANGING	22	-9.3	45	39	21	110	MS/BRAKE	3	0	<u> </u>
INCLINED PLATE	CD-03	FLOOR	0	0	121	N/A	N/A	90	SOFT START	3	0	])
		$\overline{}$		$\overline{}$				. ^	$\wedge$			,







COLUMBIA METROPOLITAN AIRPORT 2019 INBOUND BHS IMPROVEMENTS

3520 AIRPORT BLVD WEST COLUMBIA, SC 29170

3501 Air Commerce Drive Columbia, SC 29170 Ph: (803) 250-4846

No	. Date	Description				
		2 3 3 3 1 4 1 1 1 1				
1	5/17/19	ADDENDUM 1				
		CONFORMING SET				
	B NUMBER:					
	OIOIILD DI.	<u>CF</u>				
CH	IECKED BY:	BM				

 CHECKED BY:
 BM

 DRAWN BY:
 CF

 CAD DATE:
 04/22/19

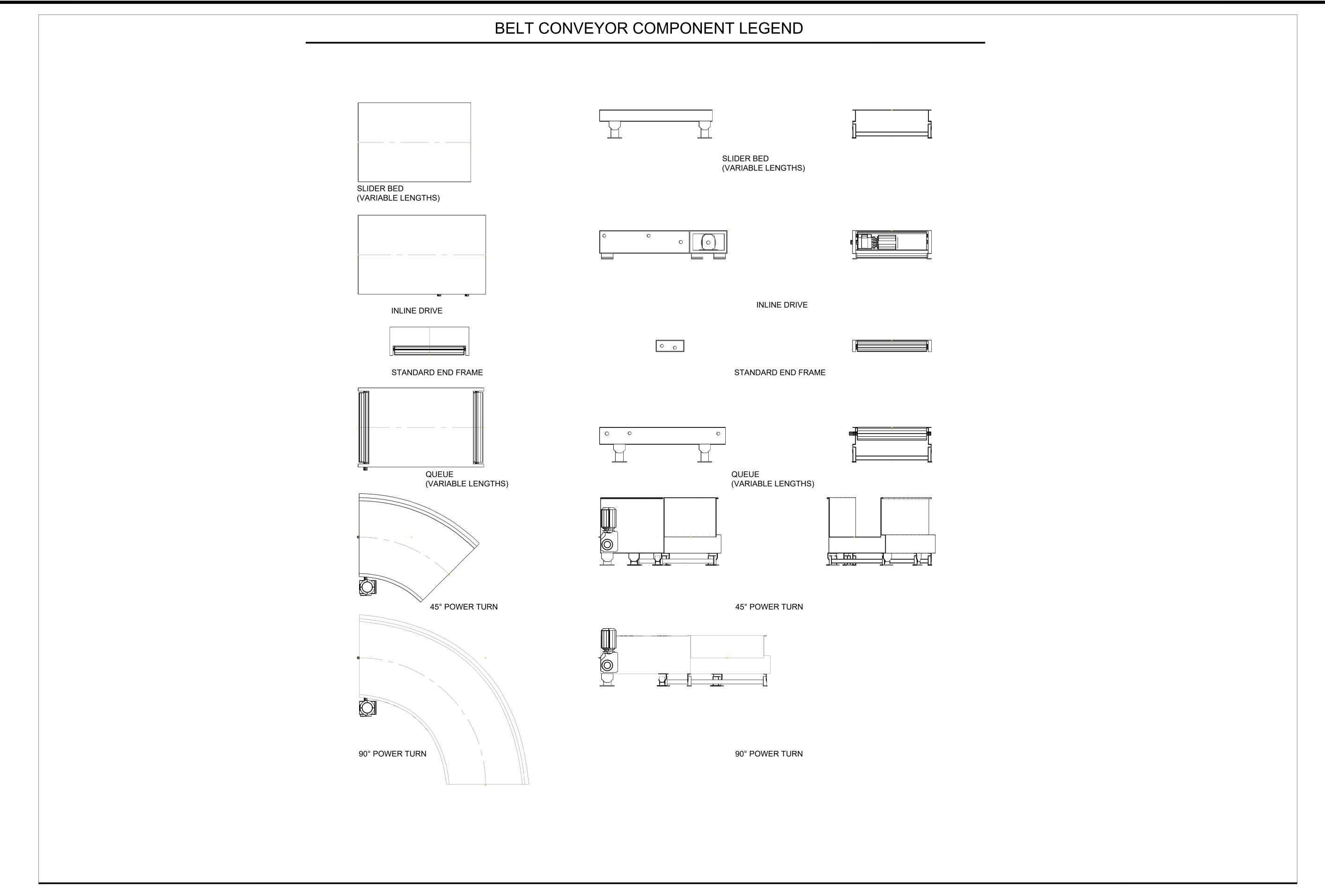
CONVEYOR LEGEND

PROJECT NUMBER:

PROJECT DATE:
08/19/19

DRAWING NUMBER:
B.IS.02

CONVEYOR LEGENDS AND SYMBOLS



Columbia Metropolitan Airport

3520 AIRPORT BLVD
WEST COLUMBIA SC 29170







COLUMBIA METROPOLITAI
AIRPORT
2019 INBOUND BHS
IMPROVEMENTS

No.	Date	Description
		CONFORMING SET

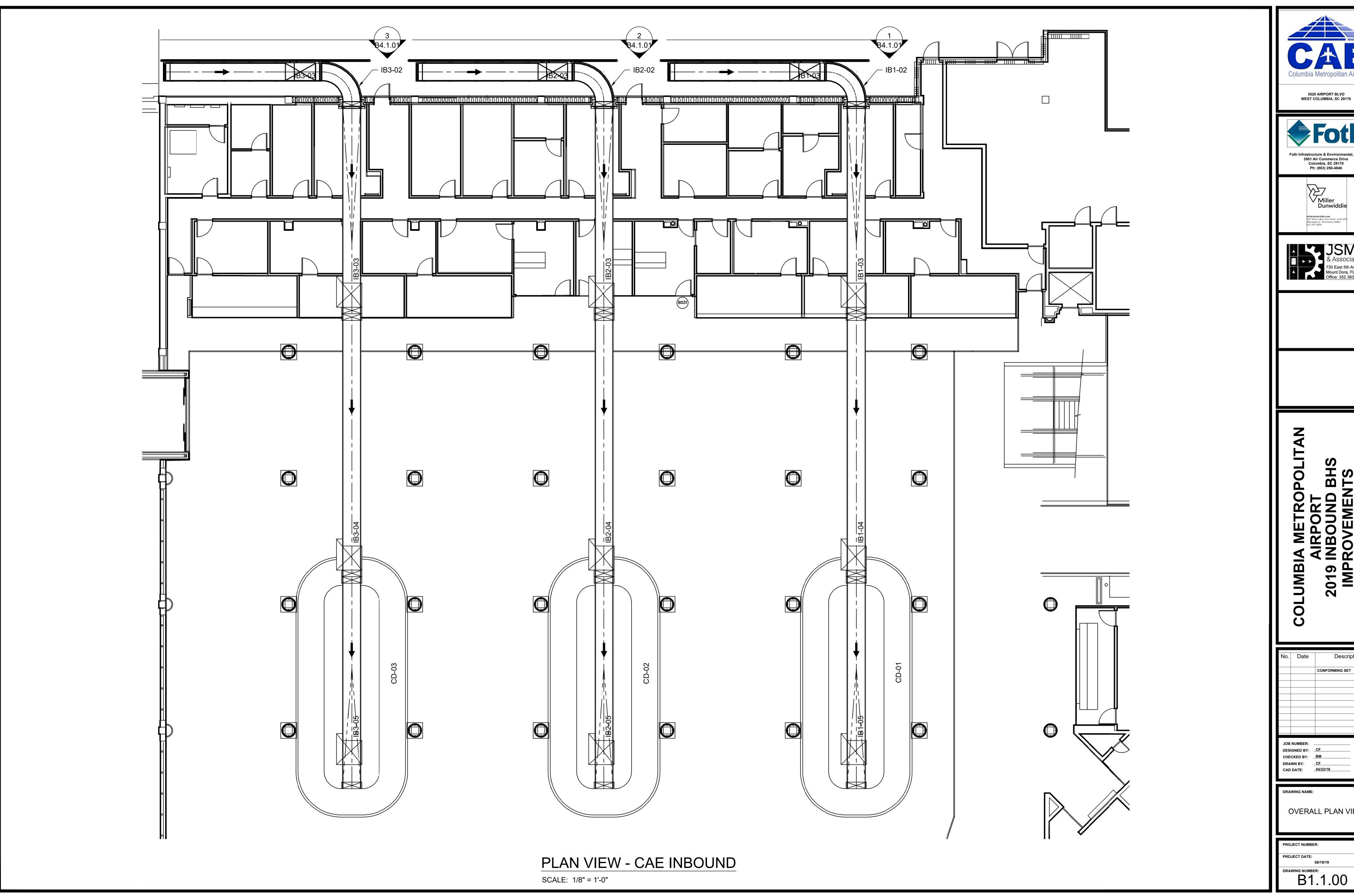
DRAWN BY: CF
CAD DATE: 04/22/19

CONVEYOR LEGEND AND SYMBOLS

PROJECT NUMBER:
PROJECT DATE:
08/19/19

B.IS.03

CONVEYOR LEGENDS AND SYMBOLS









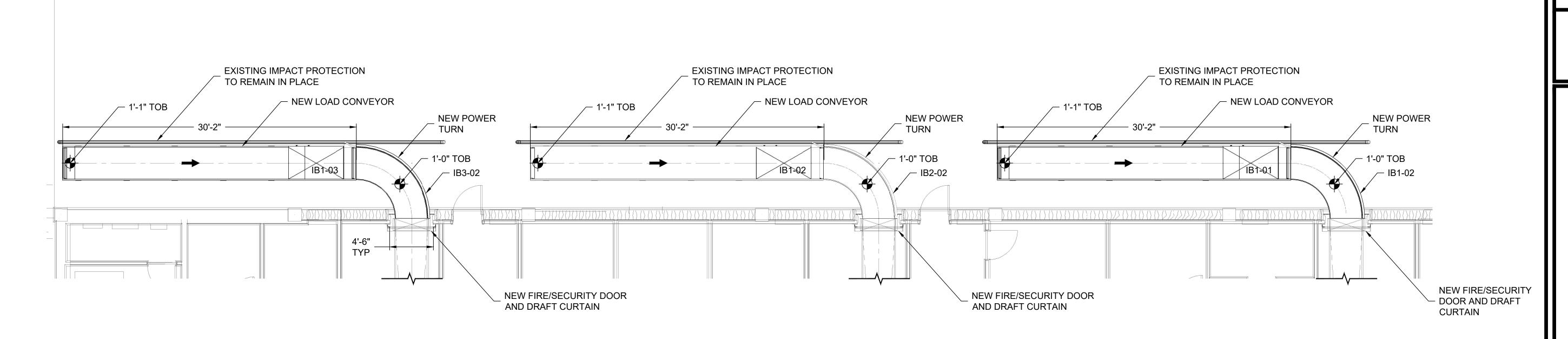
AIRPORT
2019 INBOUND BHS
IMPROVEMENTS

No.	Date	Description
		CONFORMING SET
JOB	NUMBER: .	

DRAWN BY: <u>CF</u>
CAD DATE: <u>04/22/19</u>

OVERALL PLAN VIEW









LUMBIA METROPOLITAN AIRPORT 2019 INBOUND BHS IMPROVEMENTS COLUMBIA

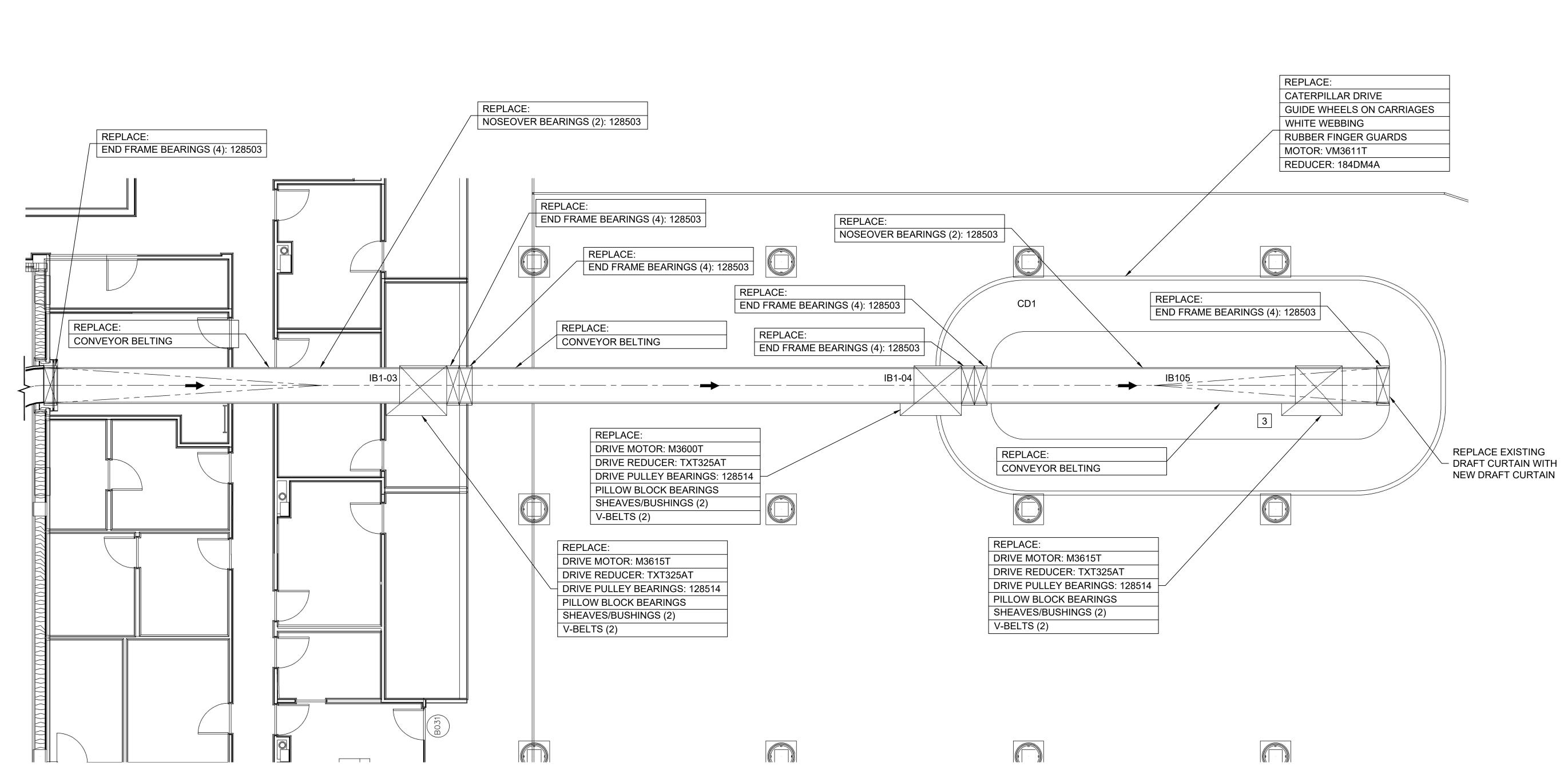
No.	Date	Description
		CONFORMING SET

PLAN VIEW LOAD CONVEYORS

PROJECT NUMBER:

B1.1.01

NOTES:



### NOTES:

- REPLACE ALL RETURN ROLLERS.
- 2. ALL STAINLESS STEEL PLATES TO BE REFURBISHED. ALL OTHER STAINLESS STEEL COMPONENTS TO BE BUFFED/REFURBISHED AND REPAIRED.
- 3. ADD HINGES AND LOCKS TO ACCESS HATCHES.



3520 AIRPORT BLVD WEST COLUMBIA, SC 29170







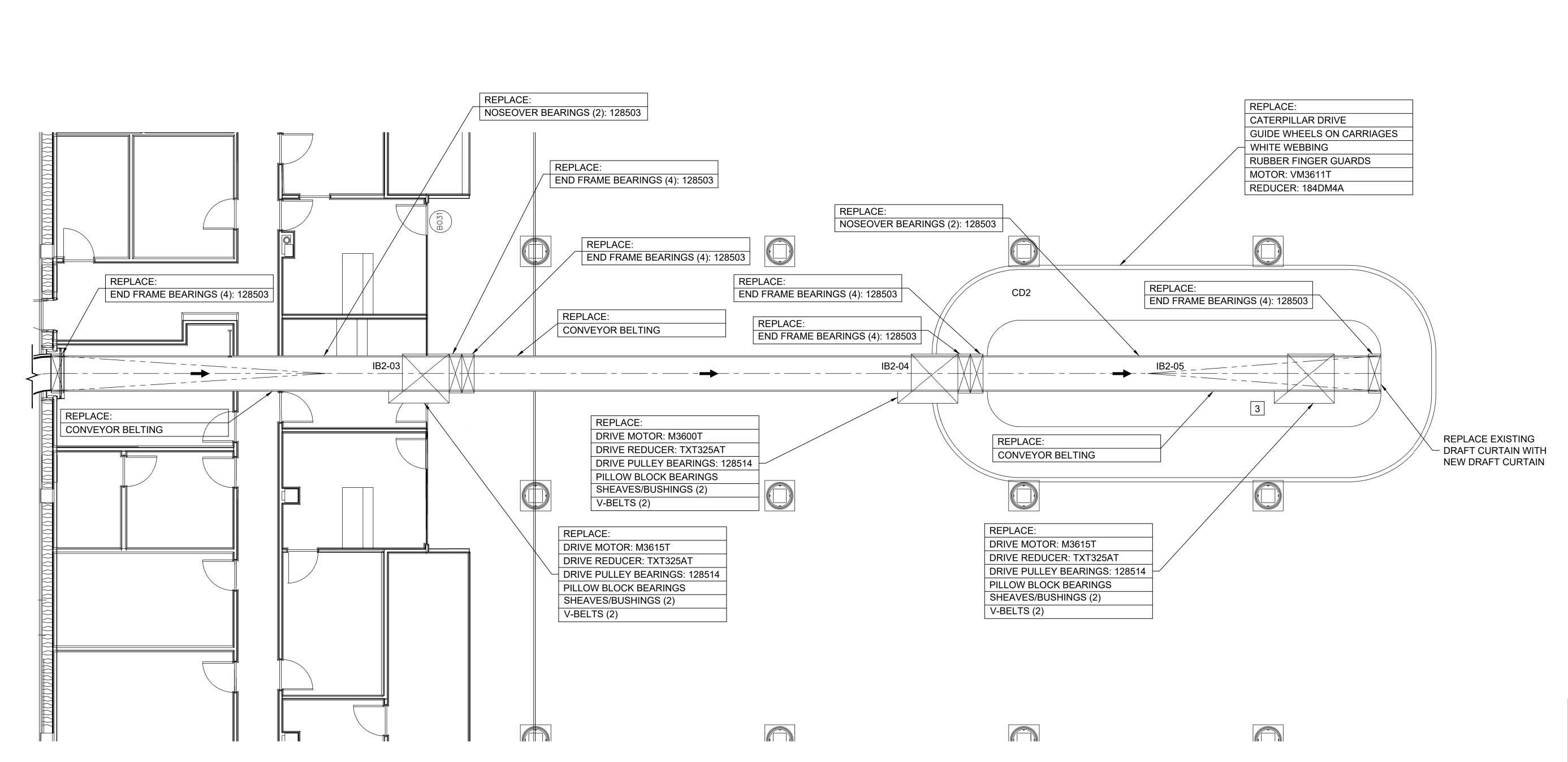
No.	Date	Description
		CONFORMING SET
JOB	NUMBER:	
DESI	GNED BY:	CF
CHE	CKED BY:	BM
DRA	WN BY:	_CF
045	D 4 TE	04/22/40

PLAN VIEW IB1 AND CD1

B1.1.02

PLAN VIEW - IB1 AND CD1 (DELTA) REFURBISHMENT

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



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Miller



No.	Date	Description			
		CONFORMING SET			
	NUMBER:				
		CF			
	CKED BY:	BM			
	WN BY:	CF			
	DATE.	04/22/40			

PLAN VIEW IB2 AND CD2

PROJECT NUMBER:

NOTES:

REPLACE ALL RETURN ROLLERS. 2. ALL STAINLESS STEEL PLATES TO BE

3. ADD HINGES AND LOCKS TO ACCESS

STEEL COMPONENTS TO BE

HATCHES.

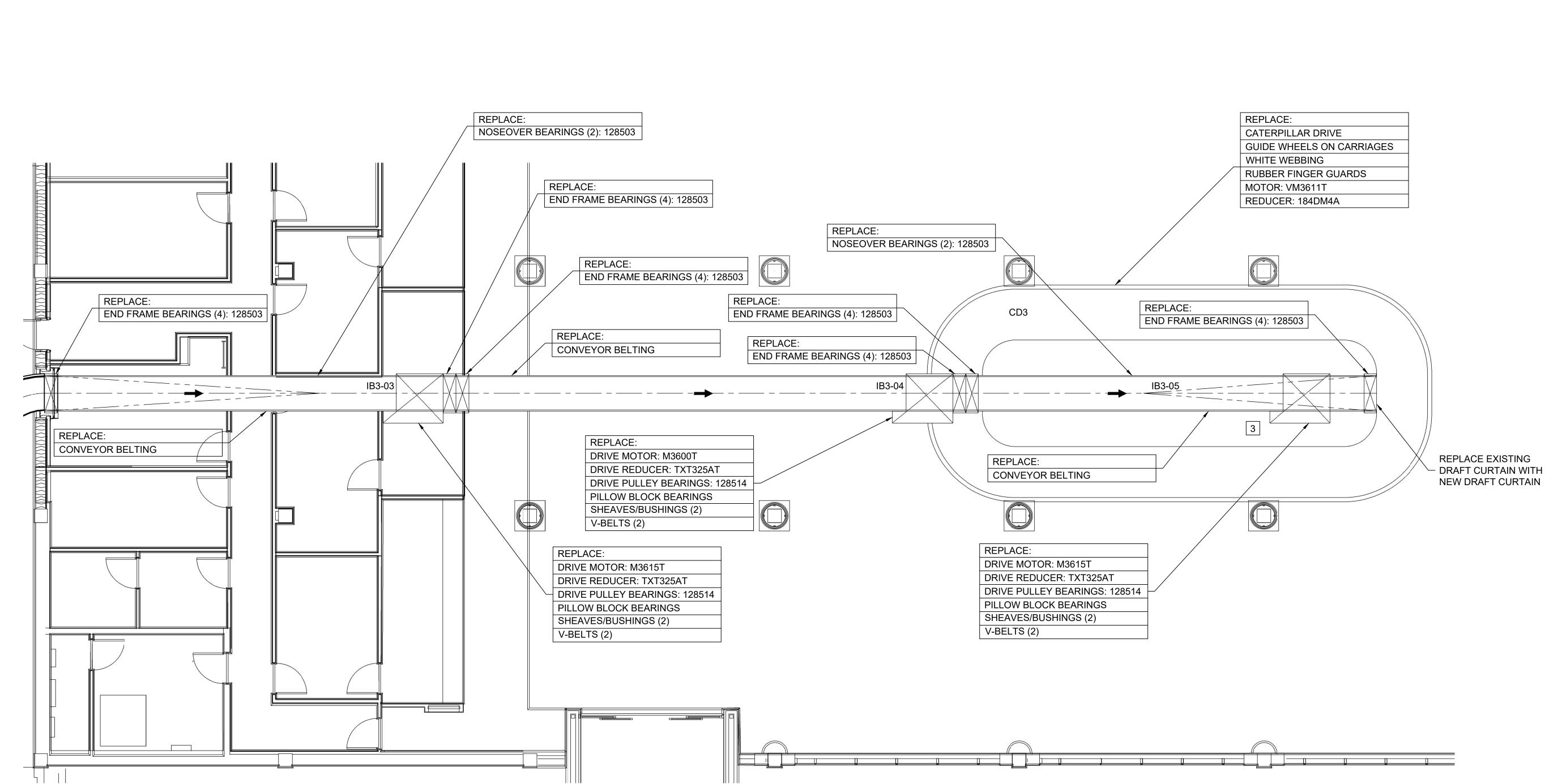
REFURBISHED. ALL OTHER STAINLESS

BUFFED/REFURBISHED AND REPAIRED.

B1.1.03

PLAN VIEW - IB2 AND CD2 (AMERICAN) REFURBISHMENT

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



### NOTES:

- REPLACE ALL RETURN ROLLERS.
- 2. ALL STAINLESS STEEL PLATES TO BE REFURBISHED. ALL OTHER STAINLESS STEEL COMPONENTS TO BE BUFFED/REFURBISHED AND REPAIRED.
- 3. ADD HINGES AND LOCKS TO ACCESS HATCHES.











No.	Date	Description
		CONFORMING SET
JOB	NUMBER:	
DES	IGNED BY:	CF
CHE	CKED BY:	ВМ
DRA	WN BY:	CF
CAD	DATE:	04/22/19

PLAN VIEW IB3 AND CD3

B1.1.04

PLAN VIEW - IB3 AND CD3 (UNITED) REFURBISHMENT

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







Miller Dunwiddie

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100 Washington Ave South, Suite 500
Minneapolis, Minneasta 55401
512 337 70000



# COLUMBIA METROPOLITAN AIRPORT 2019 INBOUND BHS IMPROVEMENTS

No.	Date	Description			
		'			
$\triangle$	5/17/19	ADDENDUM 1			
		CONFORMING SET			
JOB	NUMBER:				
DES	IGNED BY:	CF			
CHE	CKED BY:	BM			

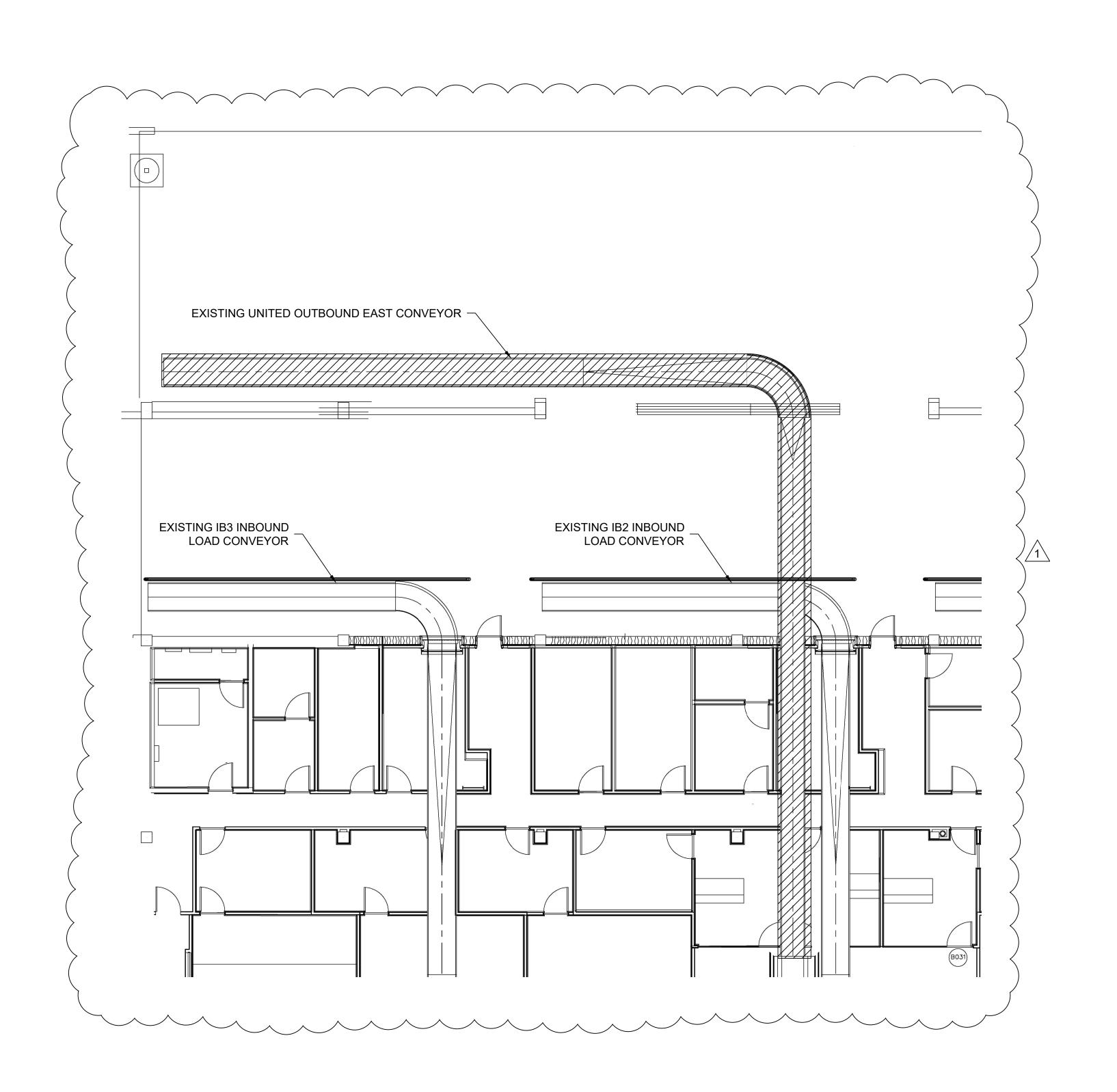
DRAWN BY: \_\_CF
CAD DATE: \_\_04/22/19

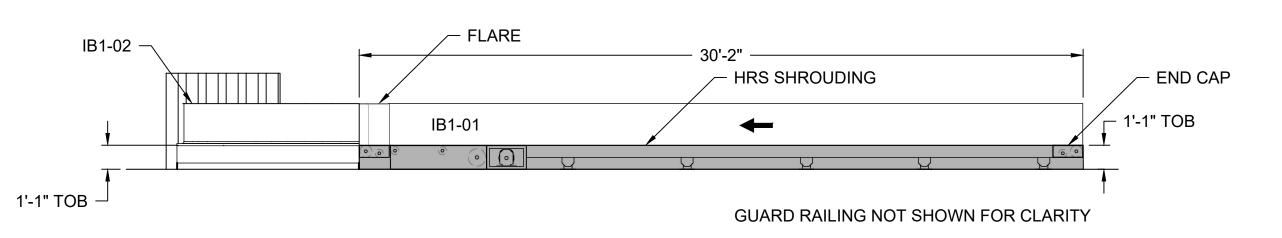
DRAWING NAME:

PLAN VIEW UNITED OUTBOUND DEMO

PROJECT DATE: 08/19/19

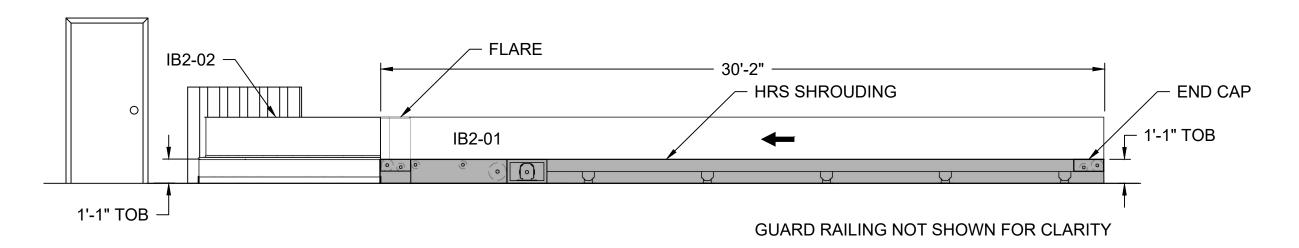
B1.1.05





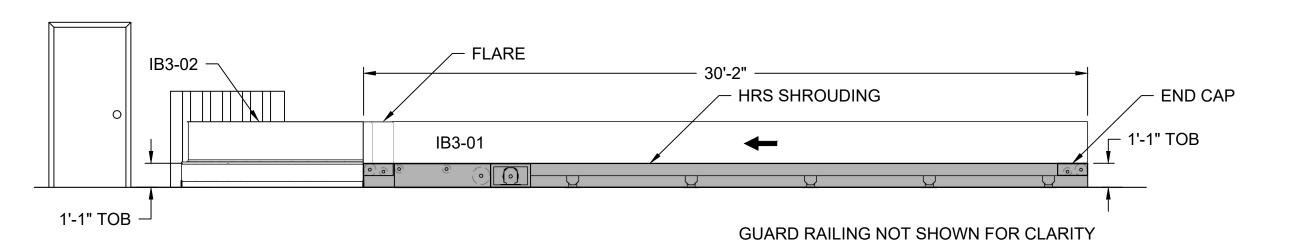
ELEVATION VIEW - IB1-01 AND IB1-02

SCALE: 1/4= 1'-0"



ELEVATION VIEW - IB2-01 AND IB2-02

SCALE: 1/4= 1'-0"



SCALE: 1/4= 1'-0"

ELEVATION VIEW - IB3-01 AND IB3-02









# COLUMBIA METROPOLITAN AIRPORT 2019 INBOUND BHS IMPROVEMENTS

No.	Date	Description
		CONFORMING SET
	NUMBER: .	CF

DESIGNED BY: CF

CHECKED BY: BM

DRAWN BY: CF

CAD DATE: 04/22/19

ELEVATIONS
LOAD CONVEYORS
IB1, IB2 AND IB3

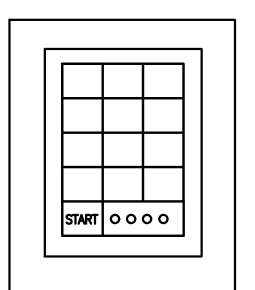
PROJECT NUMBER:

PROJECT DATE:
08/19/19

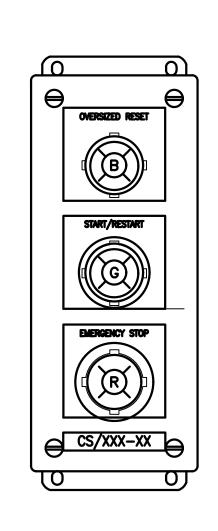
DRAWING NUMBER:

B4.1.01

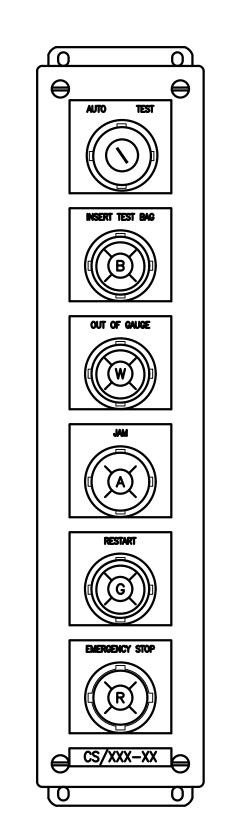
### FIELD DEVICES



SECURITY SYSTEM KEYPAD (BY OWNER) - LOCATED AT LOAD/UNLOAD POSITIONS WHERE THE SYSTEM MAY BE STARTED



TYPE 1: NON-PUBLIC LOAD **CONVEYOR LOCATIONS** 



TYPE 2: DOOR MAINTENANCE LOCATIONS

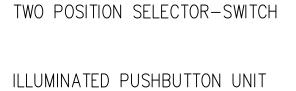
### CONTROL DEVICES LEGEND



TWO POSITION SELECTOR-SWITCH



MUSHROOM HEAD EMERGENCY STOP ILLUMINATED PUSH AND PULL RELEASE UN





AUDIBLE ALARM



ILLUMINATED INDICATOR LIGHT



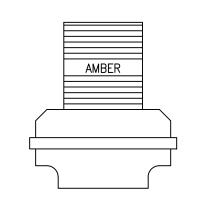


PUSHBUTTON UNIT

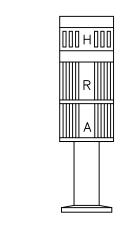
### CONTROL PANEL OPERATOR ABBREVIATIONS

R - RED, A - AMBER, G - GREEN, Y - YELLOW

W - WHITE, B - BLACK, BL - BLUE, GY - GRAY

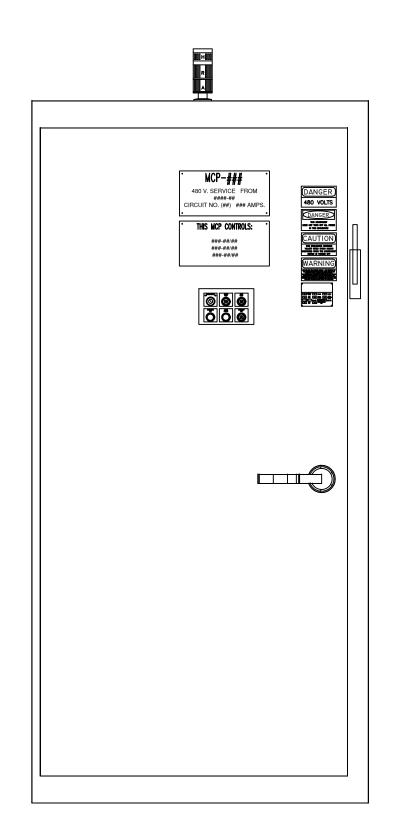


ALARM BEACON AND HORN FAULT, LOCATED ON CLAIM DEVICES BELTS.



MCP LOCATION STACK LIGHT: LOCATED ON MCPS. ACTIVATED FOR ESTOPS, FAULTS AND START-UPS.

### MOTOR CONTROL PANELS



**IB1 MCP** 

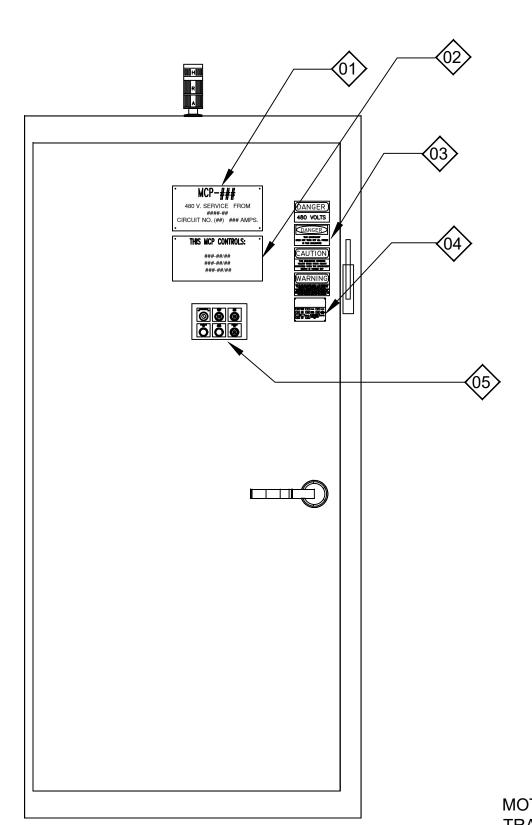
MCP-### 480 V. SERVICE FROM ####-## CIRCUIT NO. (##) ### AMPS. DANGER
480 VOLTS

CAMGER

CAUTION

WARNING THIS MCP CONTROLS: ###-##/## ###-##/## ###-##/## 

**IB2 MCP** 



**IB3 MCP** 

### 480 V. SERVICE FROM CIRCUIT NO. (##) ### AMPS.

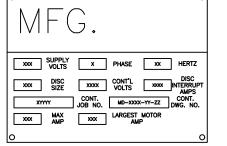
MCP INFORMATION - MCP ID AND ELEC FEED SERVICE TO

THIS MCP CONTROLS:

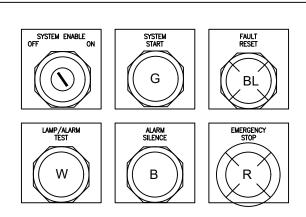
###-##/## ###-##/## ###-##/##

SUBSYSTEM - UNIT NUMBERS AND MAJOR DEVICES CONTROLLED BY THIS MCP

63 ELECTRICAL WARNING LABLES
AS REQUIRED BY COVERNMENT AS REQUIRED BY GOVERNING STANDARDS AND AUTHORITIES.



MFG. INFORMATION AND DETAILED MCP INFORMATION



05 TYPE 9 CONTROL STATION: MCP DOOR LOCATIONS

MOTOR CONTROL PANELS FOR MAIN 480V POWER FEED, FUSING, LOW VOLTAGE TRANSFORMERS, PLC AND I/O MODULES, MOTOR STARTERS, VFDS, RELAYS, OIT AND ALL OTHER CONTROL RELATED HARDWARE. FINAL SIZING AND INTERNAL DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.

ELECTRICAL DEVICE STANDARDS



3520 AIRPORT BLVD WEST COLUMBIA, SC 29170

3501 Air Commerce Drive Columbia, SC 29170 Ph: (803) 250-4846

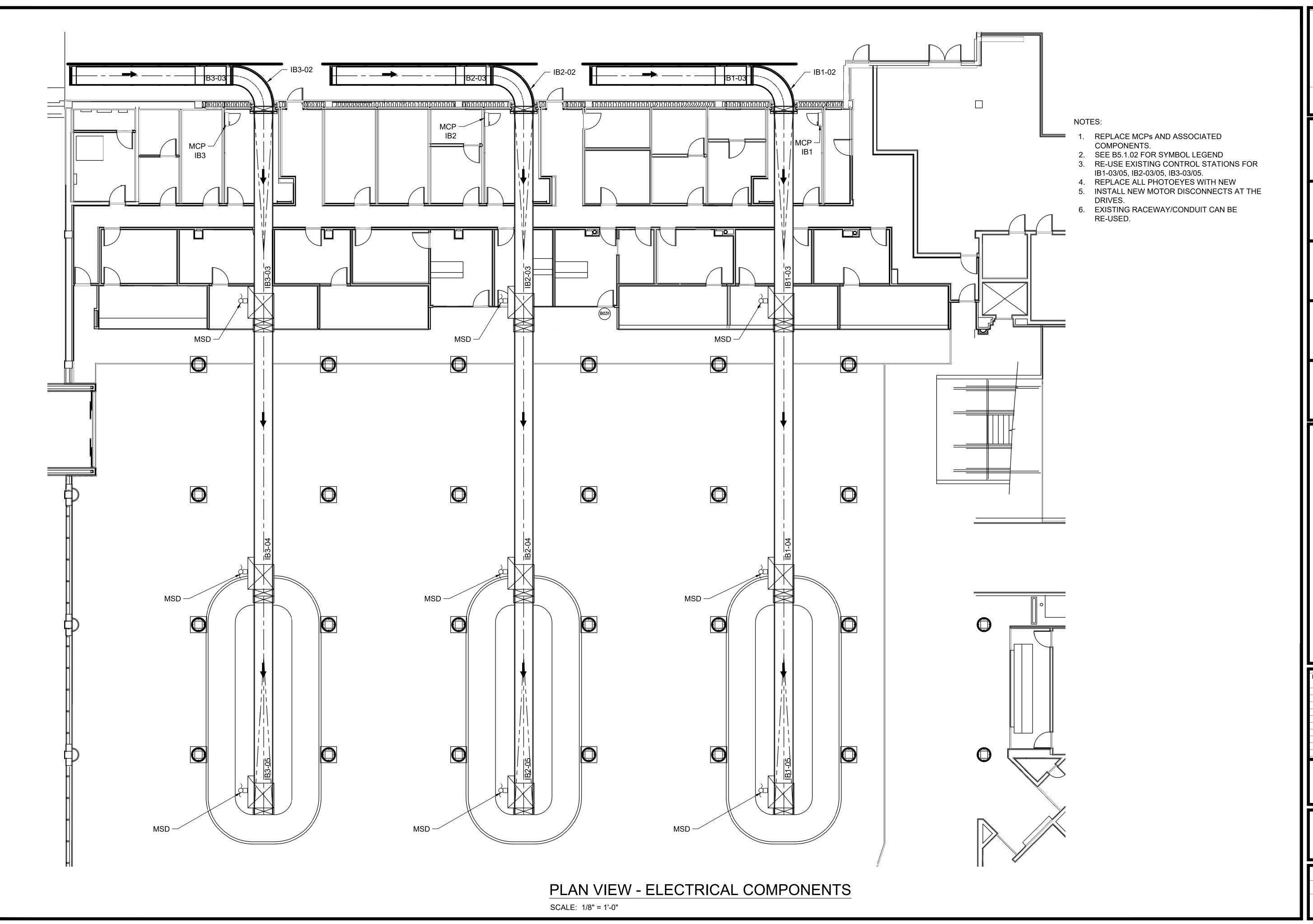
& Associates
730 East 5th Avenue
Mount Dora, FL 32757
Office: 352.383.2600

No.	Date	Description
		CONFORMING SET
JOB	NUMBER:	

CHECKED BY: BM CAD DATE: 04/22/19

**ELECTRICAL DEVICE STANDARDS** 

B5.1.00





3520 AIRPORT BLVD WEST COLUMBIA, SC 29170



Foth Infrastructure & Environmental, LLC 3501 Air Commerce Drive Columbia, SC 29170 Ph: (803) 250-4846

Miller Dunwiddie

millerdunwiddie.com
100 Washington Ave South, Suite 500
Minneapolis, Minnessota 55401
512 337 9000



COLUMBIA METROPOLITAR AIRPORT 2019 INBOUND BHS IMPROVEMENTS

No.	Date	Description
		CONFORMING SET
		CONFORMING SET
JOB	NUMBER:	
DESI	GNED BY:	CF

JOB NUMBER:

DESIGNED BY:

CHECKED BY:

BM

DRAWN BY:

CF

CAD DATE:

04/22/19

DRAWING I

PLAN VIEW -ELECTRICAL COMPONENTS

PROJECT NUMBER:

PROJECT NUMBER:

PROJECT DATE:

08/19

B5.1.01



NEW POWER

- IB2-02

ALM/BCN NEW STACK — LIGHT/ALARM

NEW FIRE/SECURITY DOOR

AND DRAFT CURTAIN

### NOTES:

− SACR NEW ,∕– CS(1) NEW <sub>/</sub>

IB1-01

MSD (NEW) -

PE(1) NEW

- 1. INSTALL NEW CONTROL STATION AND OTHER FIELD DEVICES FOR IB1-01/02, IB2-01/02, IB3-01/02.
- 2. INSTALL NEW FIRE/SECURITY DOORS INCLUDING CONTROL STATIONS AND ASSOCIATED FIELD DEVICES.

**NEW POWER** 

- CS(2) NEW

NEW FIRE/SECURITY

- DOOR AND DRAFT

CURTAIN

TURN

### ABBREVIATION LEGEND:

ALM/BCN NEW STACK — LIGHT/ALARM

PE(1) CASCADE STOP/JAM PHOTOEYE PE(2) DOOR OBSTRUCTION PHOTOEYE PE(3) OVERHEIGHT DETECTION PHOTOEYE

PE(5) DOOR OPEN PHOTOEYE PE(6) DOOR CLOSED PHOTOEYE CS(1) LOAD BELT CONTROL STATION CS(2) DOOR CONTROL STATION

### SYMBOL LEGEND:

⊢ PE (PHOTOEYE)

B1-03

MSD (NEW)

CS(2) NEW -

PE(1) NEW

- ◆ PE (DOOR OPEN / CLOSE)
- ☑ CS (CONTROL STATION)
- □ LS (LIMIT SWITCH)
- ⊗ ENC (SHAFT ENCODER)
- SACR (SECURITY ACCESS CARD READER

**NEW POWER** 

- IB3-02

ALM/BCN NEW STACK — LIGHT/ALARM

NEW FIRE/SECURITY DOOR

AND DRAFT CURTAIN

### PLAN VIEW - ELECTRICAL COMPONENTS

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

− SACR NEW ,— CS(1) NEW /

B1-02

MSD (NEW)

CS(2) NEW -

PE(1) NEW





Miller Dunwiddie



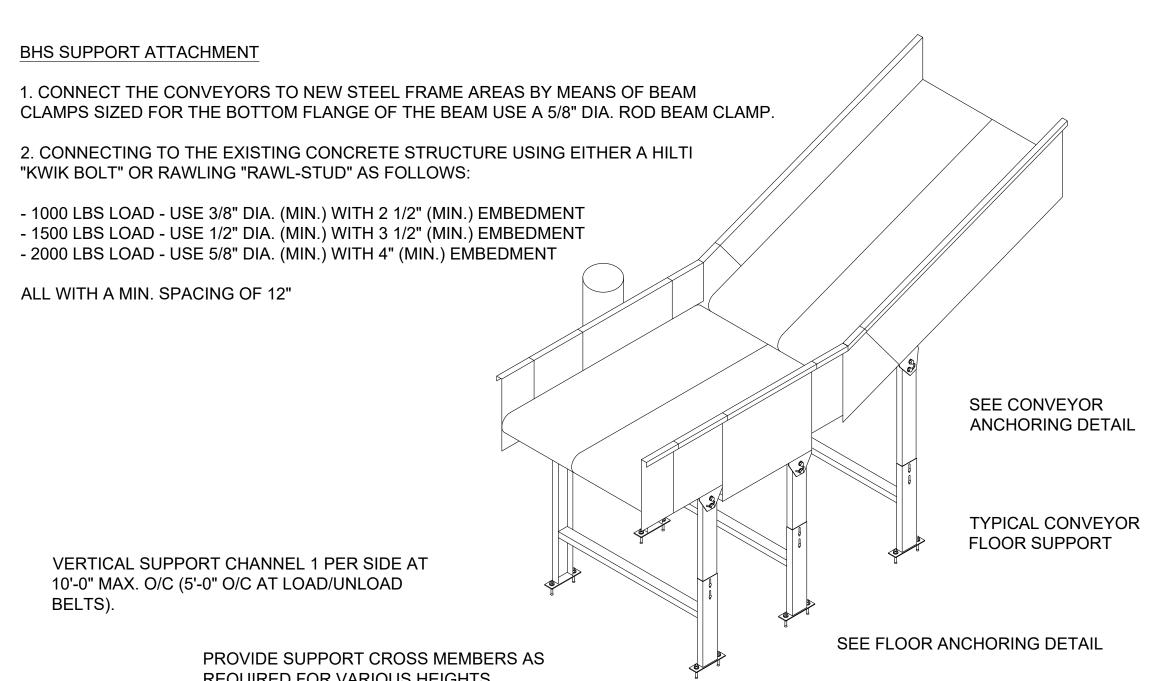
# LUMBIA METROPOLITAN AIRPORT 2019 INBOUND BHS IMPROVEMENTS COLUMBI

No.	Date	Description
		CONFORMING SET

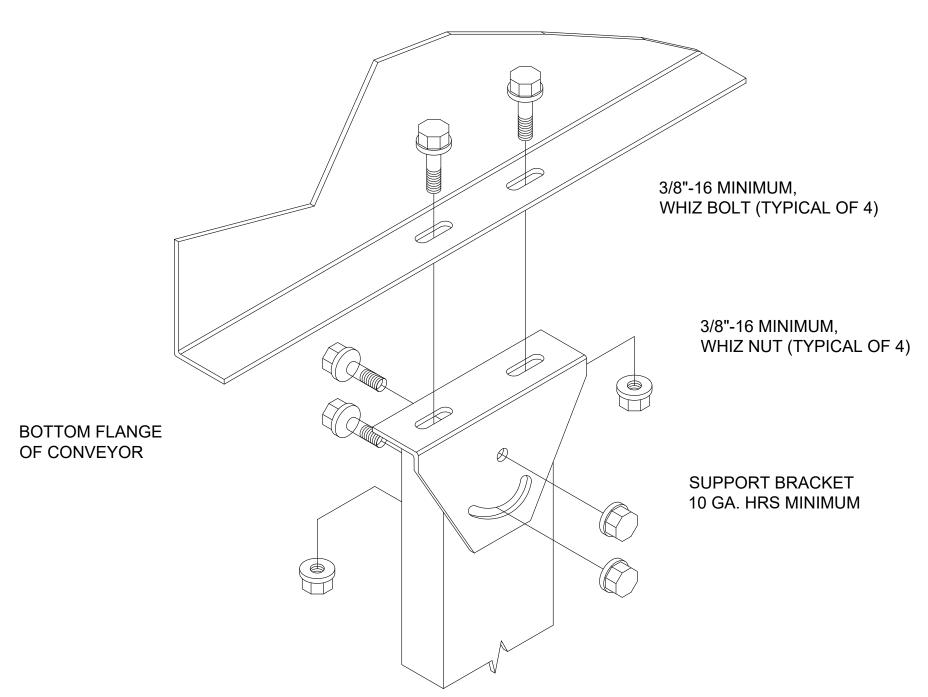
JOB NUMBER: \_\_\_\_\_
DESIGNED BY: \_\_CF CHECKED BY: BM CAD DATE: 04/22/19

PLAN VIEW -ELECTRICAL COMPONENTS

B5.1.02

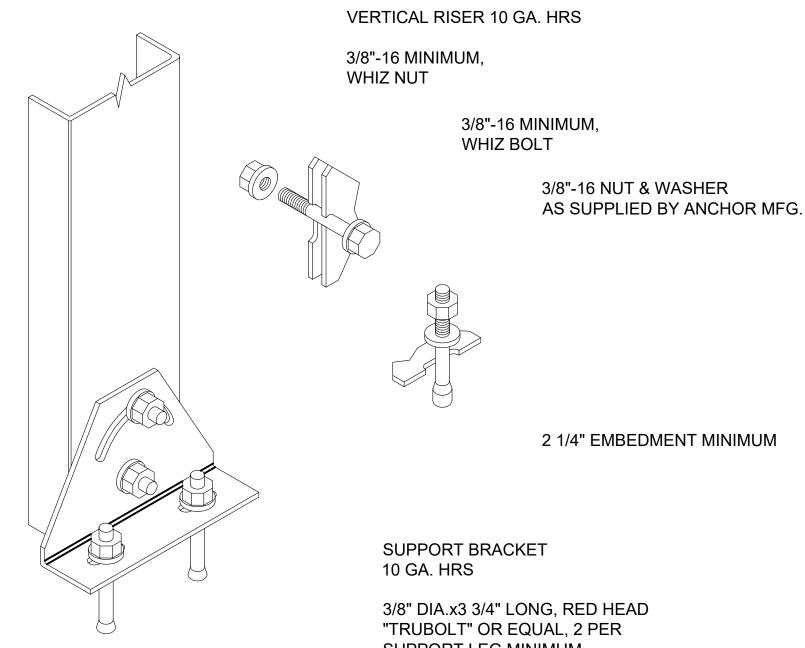






TYPICAL SUPPORT CONVEYOR ANCHORING DETAIL

B6.1.00 SCALE: NTS





### FLOOR COMPONENT DETAILS







# COLUMBIA METROPOLITAN AIRPORT 2019 INBOUND BHS IMPROVEMENTS

No.	Date	Description
		CONFORMING SET
JOB	NUMBER: _	

DESIGNED BY: CF

CHECKED BY: BM

DRAWN BY: CF

CAD DATE: 04/22/19

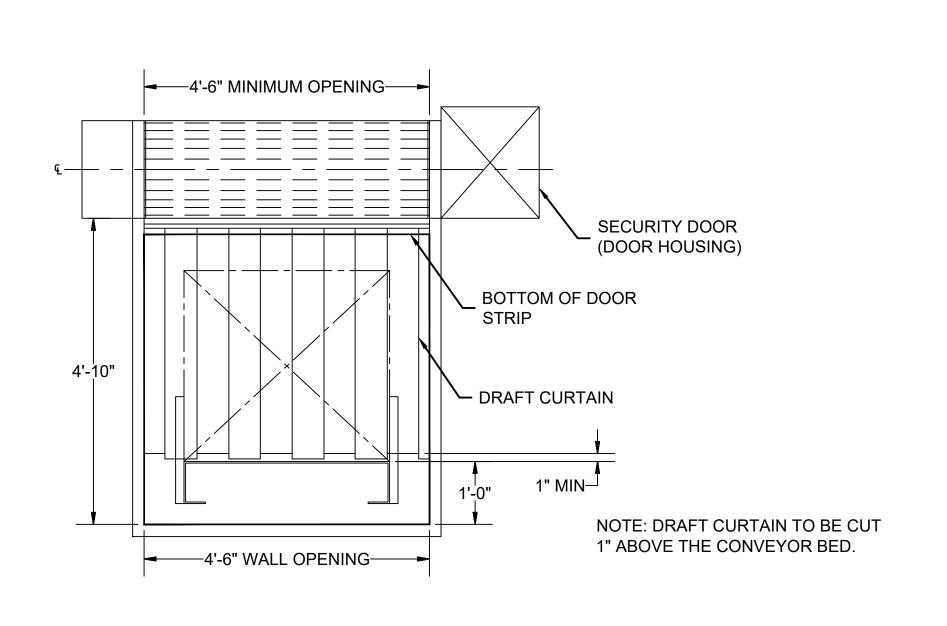
RAWING NAME:
FLOOR
COMPONENT

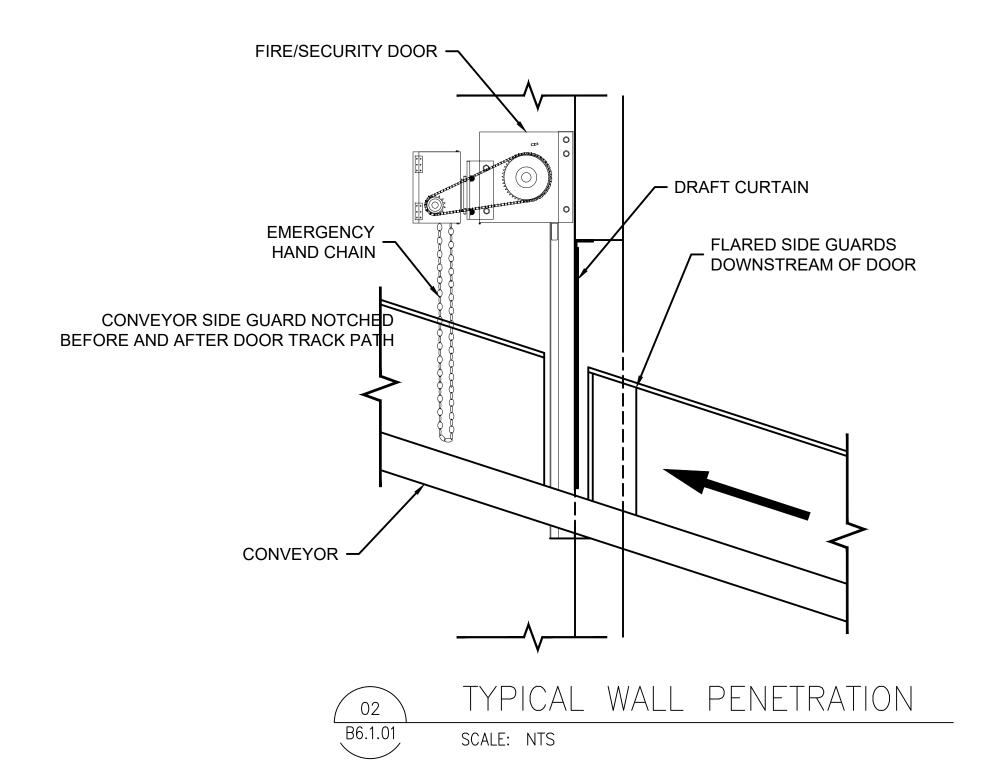
**DETAILS** 

PROJECT NUMBER:

PROJECT DATE:
08/19/19
DRAWING NUMBER:

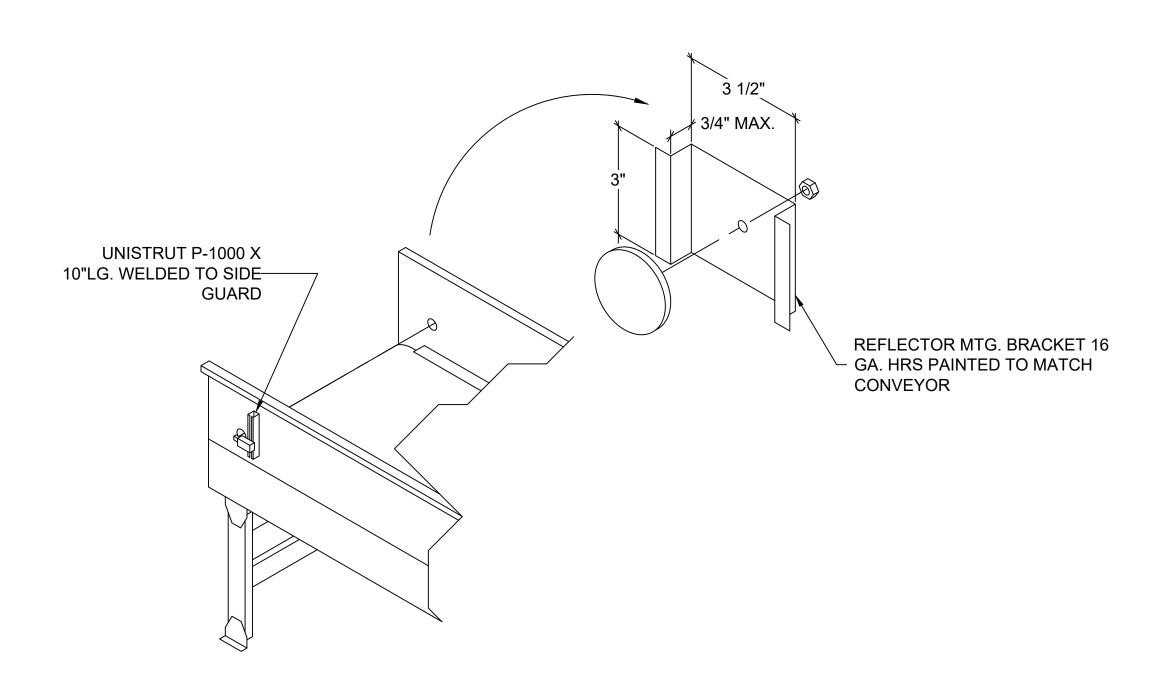
B6.1.00





TYPICAL DRAFT CURTAIN (FRONT VIEW)

B6.1.01 SCALE: NTS





DOOR DETAILS

SCALE: NTS

Columbia Metropolitan Airport

3520 AIRPORT BLVD
WEST COLUMBIA, SC 29170







# COLUMBIA METROPOLITAN AIRPORT 2019 INBOUND BHS IMPROVEMENTS

No.	Date	Description
INO.	Date	Description
		CONFORMING SET
JOB	NUMBER:	
DES	IGNED BY:	CF
CHE	CKED BY:	ВМ
DRA	WN BY:	_CF
		<del></del>

DOOR DETAILS

CAD DATE: 04/22/19

PROJECT DATE:
08/19/19

DRAWING NUMBER:

86.1.01