Appendix B - Communications Utility Connection Applications
For Reference Only

SEA Seattle-Tacoma International Airport

APPLICATION FOR CONNECTION TO COMMUNICATION INFRASTRUCTURE
-FORM-

Send Completed Applications to:	**AVCommittees@portseattle.org**	Received by F&I:	Click or tap to enter a date.

SECTION 1 *(to be completed by POS Project Manager)*

1.1: Acknowledgement, Infrastructure Nomenclature, and COMM Connection Process:

☒	I have reviewed the Application for Connection to Communication System Instructions (Periodically check for updated information and support)	☒	I am using the current Application version [For your convenience, below link is to all applications and instructions] (Applications for Utilities Connections | Port of Seattle (portseattle.org)

YES	NO	N/A	REQUESTED	
☐	☒	☐	☐	**COMM Infrastructure Connections***- I have media termination assignment(s) and nomenclature from ICT Infrastructure (z-it-telecom-infra@portseattle.org) **(*) Required no later than 90% and inc. on design**
YES	NO	N/A	UNKNOWN	
☒	☐	☐	☐	Project shall require an **Application for Connection to Special Systems**. Review the Special Systems Application or the (Special Systems Matrix_2023.xlsx (sharepoint.com) for more information

1.2 Project Coding:

Submittal Date:	CIP #:	Project ID:	Activity:	Phase:
6/26/2024	Click or tap here to enter text.	U00504	Concourse Low Voltage System Upgrade	90%

1.3: Project includes Communication Infrastructure involving (check all that apply):

☐	New Facility (Including expansion of existing facility)	☐	Airline Support (PLB, Ticket Counter, Gate Service, Lounge, etc.)
☐	Remodel to existing Facility	☐	Office space(s) (distribution of Horizontal Cabling)
☐	New Communication Room(s)	☒	Existing Infrastructure Adds, Moves, and/or Changes (to Rooms, Pathways, and/or Cabling)
☐	New Comm Cabinet(s) (MDC, SDC, FTBS, Tenant DMARC)	☐	Auxiliary building(s) or space(s) outside of SEA Terminal
☐	Outside Plant (Pathways, Enclosures, and/or Cable)	☒	Special System(s) -Requires an Application for Connection to Special Systems to be completed
☐	Other:	Click or tap here to enter text.	

1.4: Connection Specifics:

COMM CONNECTION TYPE:	**HORIZONTAL MEDIA (Device/Destination CABLE INFRA. to COMM/Source**		
TO COMM RM:	**See attached plans and one-lines**	***or COMM CABINET:***	Click or tap here to enter text.
Additional Project Notes: (Brief notes to provide any comm connection details not captured above)	Connection form for metering installed with new panels in Concourse B.		

1.5: Project Contacts:

Group:	Company:	Representative:	Phone:	Email:
SEA PM:	Port of Seattle	Christina Burdett	(206) 518-4439	burdett.c@portseattle.org
Design Firm:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
COMM Design Engineer:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Tenant Rep.:	N/A	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

SECTION 2 *(to be completed by Communications Design Engineer)*

APPLICATION FOR CONNECTION TO COMMUNICATION INFRASTRUCTURE
-FORM-

2.1: Acknowledgement:			
☒	I have reviewed the applicable sections of the F&I SEA COMMUNICATION STANDARDS related to this project's communication design. *Periodically check for updated information: Design Standards and Guidelines | Port of Seattle (portseattle.org)	☒	Comm Design Engineer has been coordinating with Architectural, Electrical, Mechanical, and Civil teams for projects where applicable; especially on those that include new/remodeled comm spaces

2.2: Project Design Questionnaire:					
YES	NO	N/A	See Notes	Design Engineer has provided design documentation for the following (**BOLD**= Minimum design documentation to provide with Application applicable to design)	Complete if "See Notes" box is selected
☒	☐	☐	☐	**SEA Facility CAD Backgrounds** (Include any Outside Plant, building floor and/or RCP Plans, etc. Provide detail of all Backbone and Horizontal pathways with cable fill amounts from Source to Destination	Click or tap here to enter text.
☒	☐	☐	☐	**One-line** and/or **Riser diagram(s)**	Click or tap here to enter text.
☒	☐	☐	☐	**Cable Schedules** (Shall include all Cable ID's and the Source and Destination termination assignment per cable)	Click or tap here to enter text.
☒	☐	☐	☐	Comm infrastructure that supports any Airport **Special Systems** (Coordinate w/ PM per section 1.1 and 1.3)	Click or tap here to enter text.
☐	☐	☒	☐	Tenant Demarcation package(s)	Click or tap here to enter text.
☐	☐	☒	☐	Comm Room Plans (Include floor, RCP, wall field, and rack/cabinet elevations)	Click or tap here to enter text.
☐	☐	☒	☐	Demolition of infrastructure (Equipment, pathways, and/or cabling)	Click or tap here to enter text.
Additional information (optional):				Click or tap here to enter text.	

SECTION 3: APPLICATION STATUS *(to be completed by Facilities and Infrastructure Communication Engineer)*

3.1: Application compliance checklist:					
YES	NO	N/A	See Notes	Confirm Items:	Completed if "See Notes" box is selected
☐	☐	☐	☐	Eligible for Expedited Review(s)	Click or tap here to enter text.
☐	☐	☐	☐	Design includes termination data	Click or tap here to enter text.
☐	☐	☐	☐	Design includes nomenclature data	Click or tap here to enter text.
☐	☐	☐	☐	COMM Design drawings included	Click or tap here to enter text.

3.2: Application Status:

☐ **Approved** ☐ **Approved as Noted** (see below) ☐ **Revise and Resubmit** ☐ **Rejected**

Notes: Click or tap here to enter text.

Attend Telecom Design Review at:	30%	60%	90%	100%	Other:	1st Application Received at %:	Choose an item.
	☐	☐	☐	☐	☐ Click or tap here to enter text.		

Facilities and Infrastructure Communication Reviewer:

Date: Click or tap to enter a date.

CONCOURSE B POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ESTIMATED LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
B200	B2-P2-34F	B2-P2-38G-1	50	70	1-1/4"		4 - #4	#6	180'	180'	1.9	EP501.00
B201	NOT USED											
B202	B2-D2-38G	B2-TXY-38G-2	400	400	RETAINED 3" REUSED	2	4 - #3/0	#2	20'	20'	0.4	EP501.00, EP505.00
B203	B2-P2-17D-1 (F)	B2-TXY-17D-1	50	55	1"		4 - #6	#8	15'	15'	0.2	EP501.00
B204	B3-P2-35I-1	B2-D2-38G	100	95	RETAINED 1-1/4" REUSED		4 - #2	#8	200'	200'	2.6	EP505.00, EP507.00
B205	B2-P2-40F-1	B2-D2-38G	100	95	RETAINED 2" REUSED		4 - #2	#8	75'	75'	1.0	EP505.00, EP507.00
B206	NOT USED											
B207	NOT USED											
B208	B2-P2-27G	B2-P2-31G-2	150	150	RETAINED 2" REUSED		4 - #1/0	#6	130'	130'	1.6	EP506.00
B209	B2-P2-24F-1	B2-P2-31G-2	100	95	RETAINED 2" REUSED		4 - #2	#8	180'	180'	2.3	EP506.00
B210	B2-P2-24F-2	B2-P2-31G-2	100	95	RETAINED 2" REUSED		4 - #2	#8	180'	180'	2.3	EP506.00
B211	NOT USED											
B212	B2-D2-31G	B2-TXY-31G-2	500	510	RETAINED (2)3" REUSED	2	4 - #250kcmil	#1/0	8'	8'	0.1	EP506.00
B213	B3-P2-G.6/31-1	B2-D2-31G	200	200	RETAINED 2" REUSED		4 - #3/0	#6	105'	105'	1.1	EP506.00, EP508.00
B214	B3-P2-G.6/31-2	B2-D2-31G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	100'	100'	1.0	EP506.00, EP508.00
B215	B3-P2-31/G-1	B2-D2-31G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	106'	106'	1.1	EP506.00, EP508.00
B216	NOT USED											
B217	NOT USED											
B218	NOT USED											
B219	NOT USED											
B220	NOT USED											
B221	NOT USED											
B222	B2-P2-12E-1	B2-P2-17G-1	100	95	1-1/4"		4 - #2	#8	170'	170'	2.2	EP504.00
B223	B2-P2-12E-2	B2-P2-17G-1	100	95	1-1/4"		4 - #2	#8	170'	170'	2.2	EP504.00
B224	B2-P2-12E-3	B2-P2-17G-1	100	95	RETAINED 1-1/2" REUSED		4 - #2	#8	170'	170'	2.2	EP504.00
B225	NOT USED											
B226	B2-P2-5F	B2-P2-17I.9-1	125	175	2"		4 - #2/0	#4	295'	295'	2.4	EP504.00
B227	B2-P2-5F-1	B2-P2-5F	100	95	RETAINED 1-1/4" REUSED		4 - #2	#8	60'	60'	0.8	EP504.00
B228	B2-P2-12F	B2-P2-17I.9-1	50	55	1"		4 - #6	#10	160'	160'	2.7	EP504.00
B229	B2-D2-17G	B2-TXY-17G-2	500	510	RETAINED (2)3" REUSED	2	4 - #250kcmil	#1/0	20'	20'	0.2	EP504.00
B230	B3-P2-18-1.9-1	B2-D2-17G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	100'	100'	1.0	EP504.00, EP509.00
B231	B3-P2-B.9/18-1	B2-D2-17G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	160'	160'	1.6	EP504.00, EP509.00
B232	B3-P2-21G-1	B2-D2-17G	100	95	RETAINED 2" REUSED		4 - #2	#8	150'	150'	1.9	EP504.00, EP509.00
B233	B3-P2-H14-1	B2-D2-17G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	125'	125'	1.3	EP504.00, EP509.00
B234	B3-P2-18D-1	B2-D2-17G	200	200	RETAINED 3" REUSED		4 - #3/0	#6	160'	160'	1.6	EP504.00, EP509.00
B400	B2-TXY-17D-1	B2-P4-12E-2	30	40	3/4"		3 - #8	#8	130'	145'	1.0	EP501.00
B401	B2-D4-24C-1 (DP-5)	B2-D4-31G-2	225	230	2"		4 - #4/0	#4	250'	250'	1.0	EP503.00
B402	B2-L4-24F	B2-D4-15G-1	50	55	RETAINED 1-1/4" REUSED		4 - #6	#10	195'	195'	1.4	EP500.00
B403	B2-P4-24F	B2-D4-15G-1	100	95	1-1/4"		4 - #2	#8	185'	185'	1.0	EP500.00
B404	NOT USED											
B405	NOT USED											
B406	NOT USED											
B407	NOT USED											
B408	NOT USED											
B409	B2-L4-12E	B2-P4-17I.9-1	50	55	RETAINED 1-1/2" REUSED		4 - #6	#10	200'	200'	1.5	EP504.00
B410	NOT USED											

EMERGENCY POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ACTUAL LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
E400	C1-E4-38D-1	C2-E4-39/D-1	100	115	RETAINED 2" REUSED	1	4 - #2	#8	45'		0.3	EP519.00
E401	B1-E4-G53	B1-E4-D/7-1	50	55	RETAINED 1-1/4" REUSED	1	4 - #6	#10	50'		0.4	EP511.00
E402	B2-E4-12E	B2-E4-17G	60	55	MC	1	4 - #6	#6	150'		1.1	EP511.00
E403	NOT USED											
E404	B2-ETXZ-12E-2	B2-E4-12E	30	30	3/4"	1	2 - #10	#10	50'		0.6	EP511.00

CONCOURSE B COMMUNICATIONS FEEDER SCHEDULE

FEEDER #	TO (METER)	TO (ELEC PANEL)	TO (ELEC ROOM)	FROM	FROM (ROOM)	CONDUIT SIZE	CONDUCTOR	ESTIMATED LENGTH IN FEET - ENGINEER	ACTUAL LENGTH - CONTRACTOR	ONE LINE SHEET #
CB001	B1-MTR-R4-G53	B1-E4-G53	B-1106A-TR	H-CES-B01.01	B-1106A-TR	3/4"	1 CAT 6	50'		EC500.00
CB002		H-CES-B1.01	B-1106A-TR	ER.CB03.3	B-3190-R	3/4"	12 STRAND SM FIBER	220'		EC500.00
CB003	B2-MTR-R2-5F	B2-P2-5F	B-3033-R EXT	ER.CB03.1	B-3034B-R	3/4"	1 CAT 6	100'		EC501.00
CB004	NOT USED									
CB005	B2-MTR-R2-12F	B2-P2-12F	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	30'		EC501.00
CB006	B2-MTR-R3-12E-1	B2-E3-12E-1	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	25'		EC501.00
CB007	B2-MTR-R4-12E	B2-E4-12E	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	20'		EC501.00
CB008	NOT USED									
CB009	NOT USED									
CB010	NOT USED									
CB011	B2-MTR-R4-12E-3	B2-L4-12E	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	20'		EC501.00
CB012	NOT USED									
CB013	B2-MTR-R2-12E-1	B2-P2-12E-1	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	15'		EC501.00
CB014	B2-MTR-R2-12E-2	B2-P2-12E-2	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	15'		EC501.00
CB015	B2-MTR-R2-12E-3	B2-P2-12E-3	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	5'		EC501.00
CB016	B2-MTR-R2-17D-1	B2-P2-17D-1 (F)	B-3083-R	ER.CB03.1	B-3034B-R	3/4"	1 CAT 6	210'		EC501.00
CB017	B2-MTR-R2-17G	B2-D2-17G	B-3084-R	ER.CB03.1	B-3034B-R	3/4"	1 CAT 6	185'		EC501.00
CB018	B2-MTR-R4-24C-1	B2-D4-24C-1 (DP-5)	B-3135-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	115'		EC502.00
CB019	B2-MTR-R4-24F	B2-P4-24F	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	30'		EC502.00
CB020	B2-MTR-R2-24F-1	B2-P2-24F-1	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	15'		EC502.00
CB021	B2-MTR-R2-24F-2	B2-P2-24F-2	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	15'		EC502.00
CB022	NOT USED									
CB023	B2-MTR-R4-24F-1	B2-L4-24F	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	20'		EC502.00
CB024	B2-MTR-R2-31G	B2-D2-31G	B-3160-R	ER.CB03.2	B-3141-R	3/4"	1 CAT 6	65'		EC502.00
CB025	B2-MTR-R2-27G	B2-P2-27G	B-3138-R	ER.CB03.2	B-3141-R	3/4"	1 CAT 6	25'		EC502.00
CB026	B2-MTR-R2-34F	B2-P2-34F	B-3179A-R	ER.CB03.2	B-3141-R	3/4"	1 CAT 6	160'		EC502.00
CB027	B2-MTR-R2-38G	B2-D2-38G	B-3194-R	ER.CB03.3	B-3190-R	3/4"	1 CAT 6	140'		EC500.00
CB028	NOT USED									
CB029	NOT USED									
CB030	H-CJB-CB03.01	N/A	B-3064-R	ER.CB03.1	B-3034B-R	1-1/2"	11 CAT 6	90'		EC501.00
CB031	H-CJB-CB03.02	N/A	B-3138-R	ER.CB03.2	B-3141-R	1-1/4"	5 CAT 6	60'		EC502.00

GENERAL NOTES

1. POWER CONDUITS 2" AND LARGER SHALL BE GRS.

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522–1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C.CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

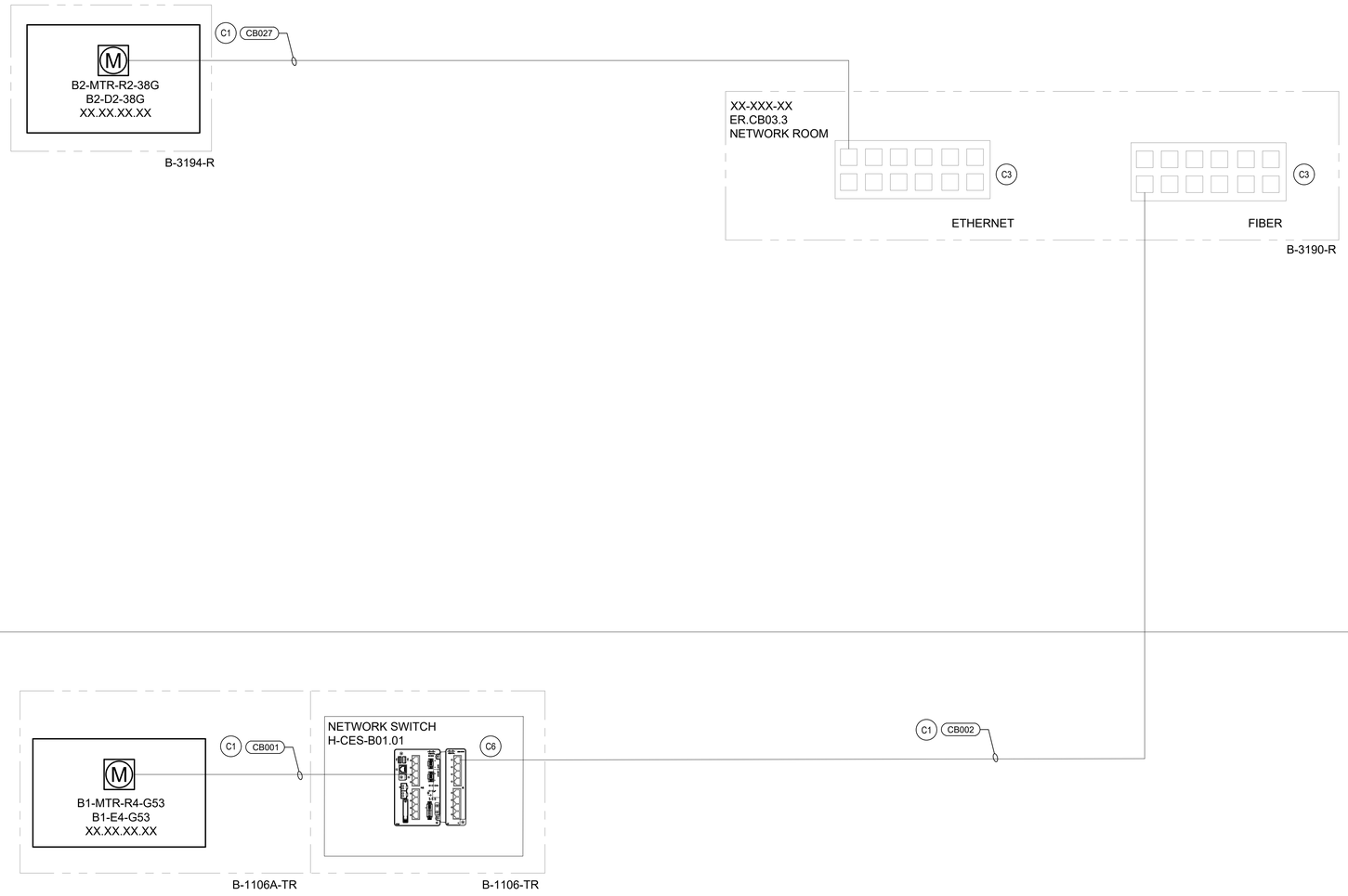
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: FEEDER SCHEDULES - CONCOURSE B & EMERGENCY

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 E010.00



DETAIL 1
COMMUNICATION RISER EC500.00
METERING NETWORK RISER DIAGRAM
SCALE: NTS

REFERENCE DRAWINGS

1. STIA2411E400 SERIES: NETWORK/METERING DETAILS.
2. STIA2411E010.00: CONDUIT FEEDER SCHEDULE - COMMUNICATION

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C6) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN EXISTING NETWORK CABINET FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/2024

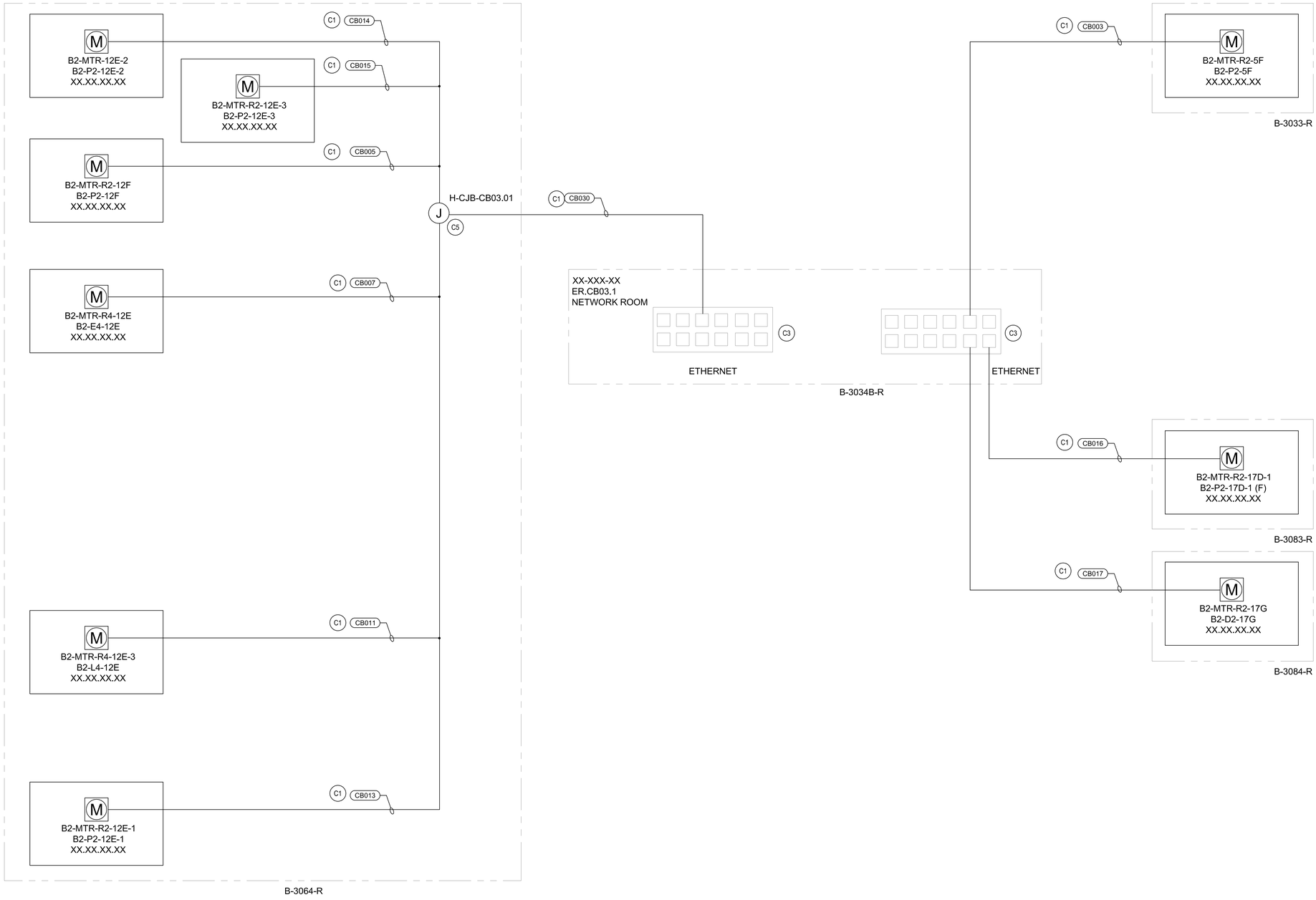
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE B

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC500.00



RAMP LEVEL

REFERENCE DRAWINGS

1. STIA2411E400 SERIES: NETWORK/METERING DETAILS.
2. STIA2411E010.00: CONDUIT FEEDER SCHEDULE - COMMUNICATION

GENERAL NOTES

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4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

DETAIL

COMMUNICATION RISER
METERING NETWORK RISER DIAGRAM
SCALE: NTS

1
EC501.00

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

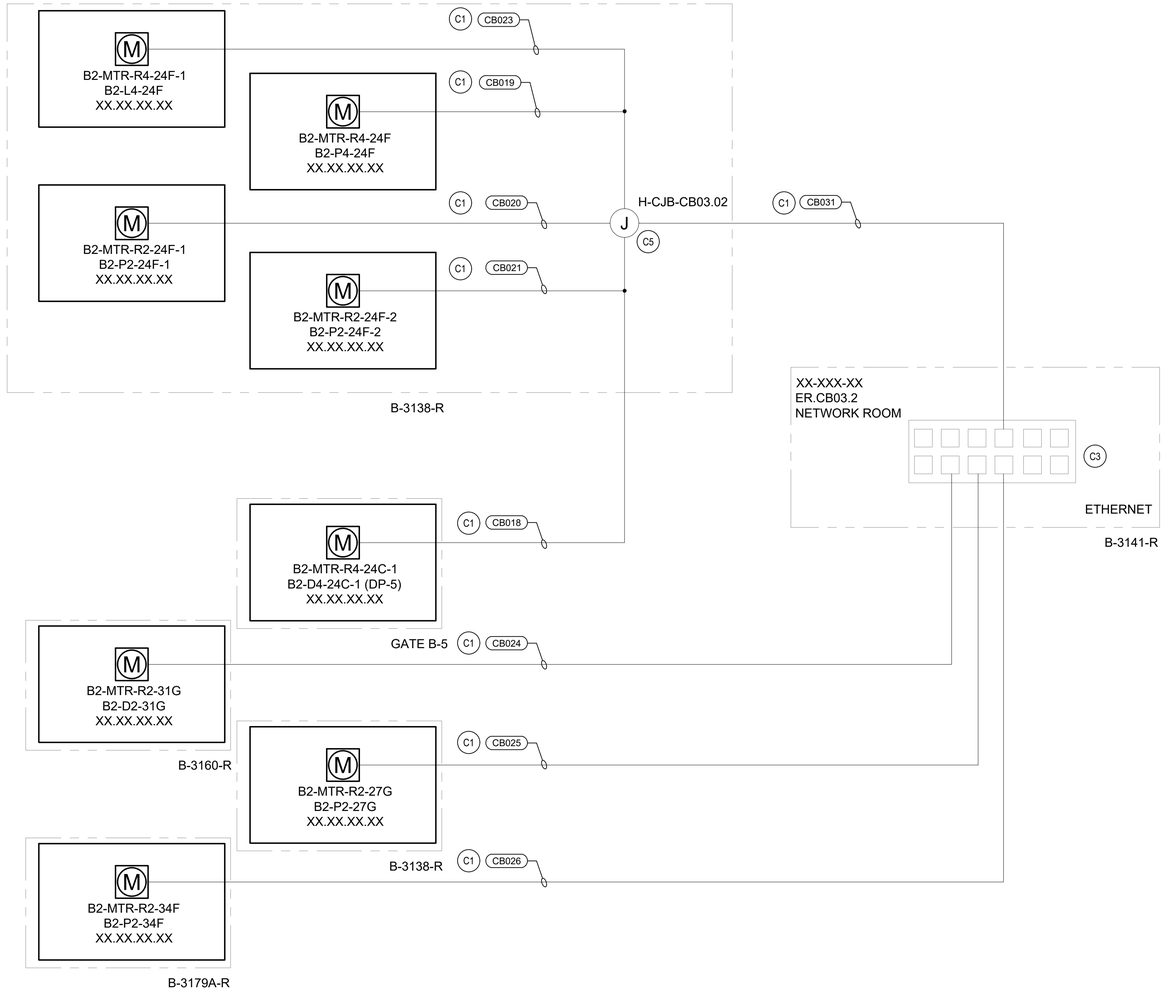
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
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2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE B

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC501.00



RAMP LEVEL

REFERENCE DRAWINGS

1. STIA2411E400 SERIES: NETWORK/METERING DETAILS.
2. STIA2411E010.00: CONDUIT FEEDER SCHEDULE - COMMUNICATION

GENERAL NOTES

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2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
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DETAIL 1
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METERING NETWORK RISER DIAGRAM
SCALE: NTS
EC502.00

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CURTIS E. CLUTE STATE OF WASHINGTON 35276 REGISTERED PROFESSIONAL ENGINEER

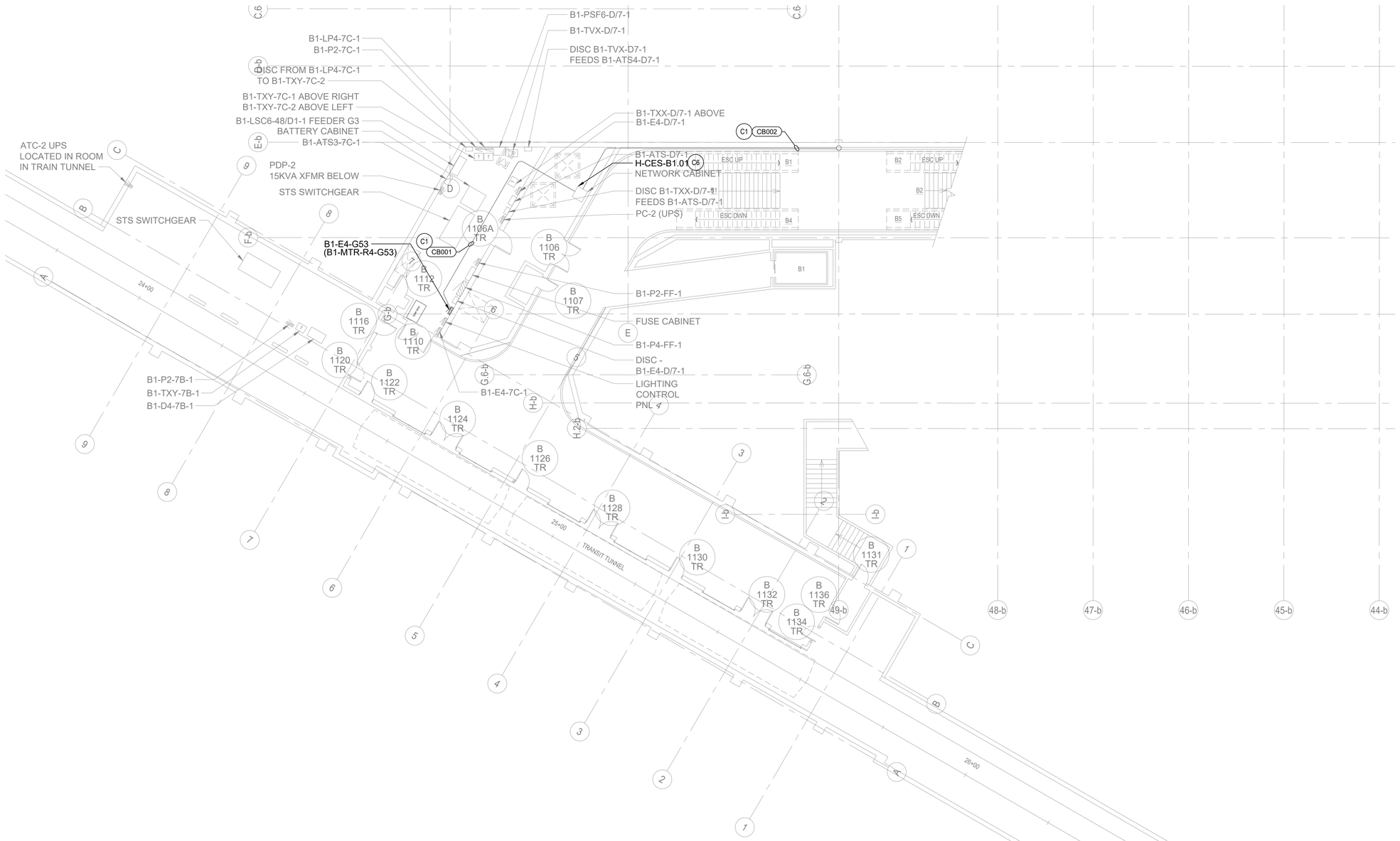
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POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
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POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE B

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC502.00



GENERAL NOTES

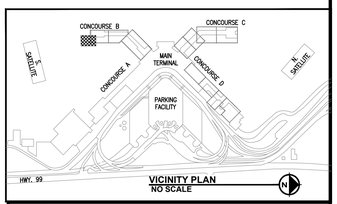
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PLAN
COMMUNICATION PLAN
STS LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet

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STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER

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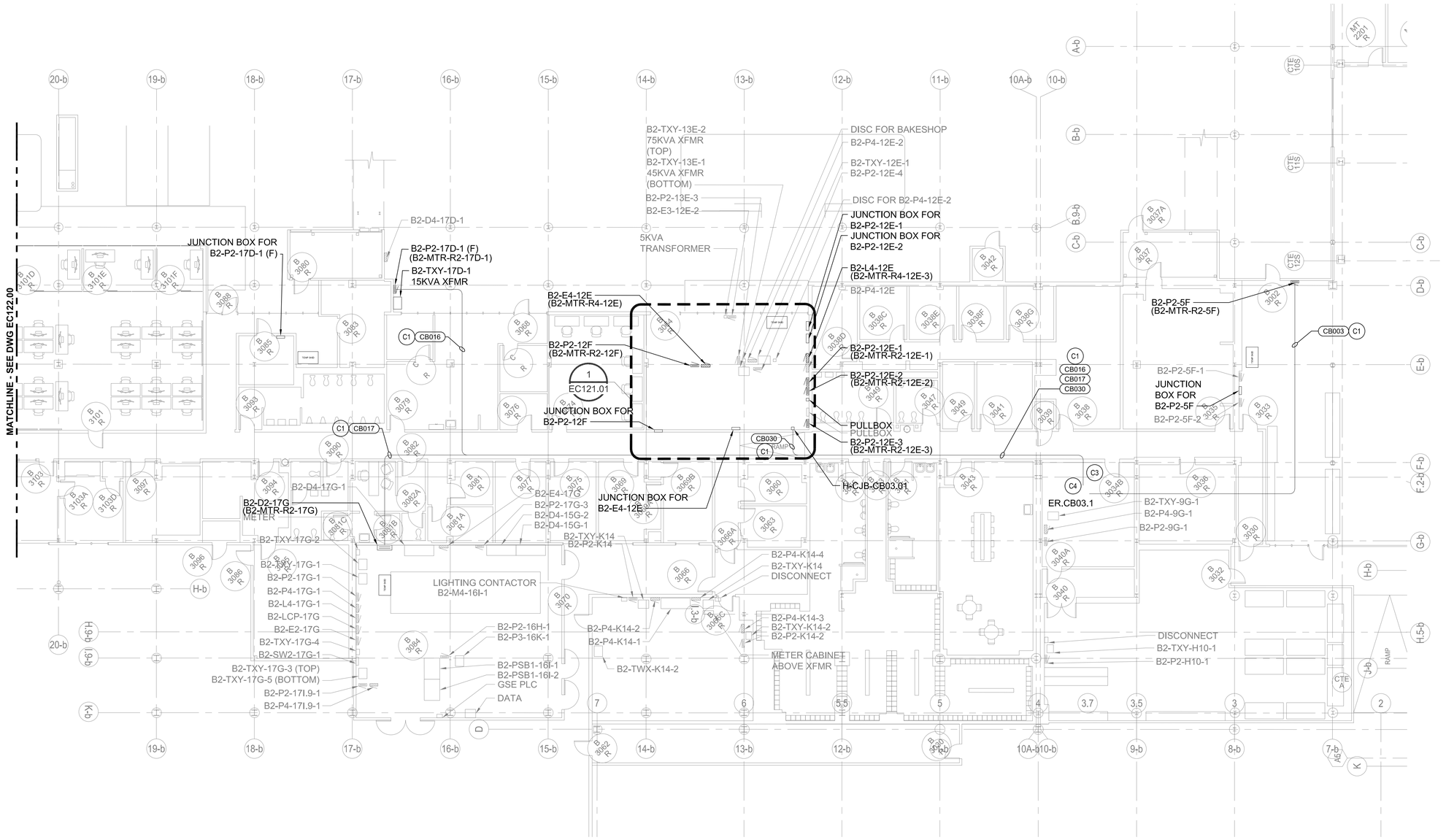
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POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - STS LEVEL - SECTOR 114

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC114.00



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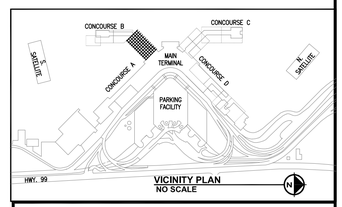
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PLAN

COMMUNICATION PLAN
STS LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale: 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH/M. NAMAZI
DRAWN BY:	C. ALLISON
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

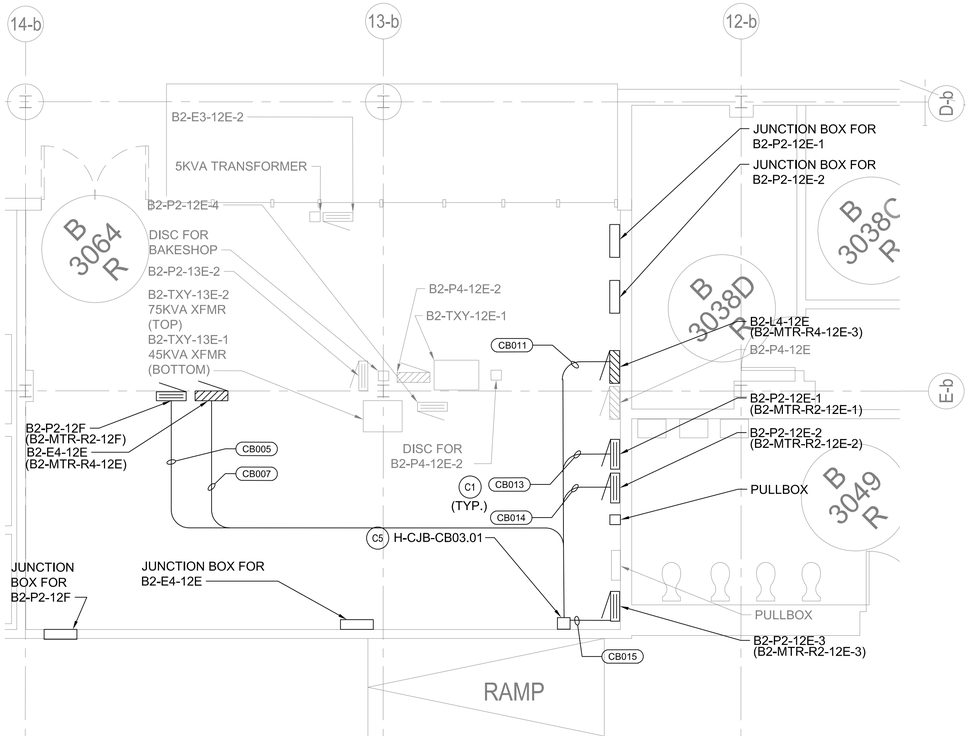
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POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 121

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC121.00



ENLARGED PLAN

COMMUNICATION PLAN
STS LEVEL
SCALE: 1/4" = 1'-0"

1
EC121.00

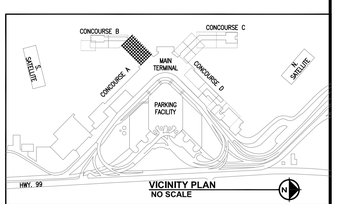
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VICINITY PLAN
NO SCALE

1/4"=1'-0" Scale
2 0 2 4 6 8 10 Feet

CALL 2 DAYS
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CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH/M. NAMAZI
DRAWN BY:	C. ALLISON
SCALE:	AS NOTED
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

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POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 121

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC121.01

GENERAL NOTES

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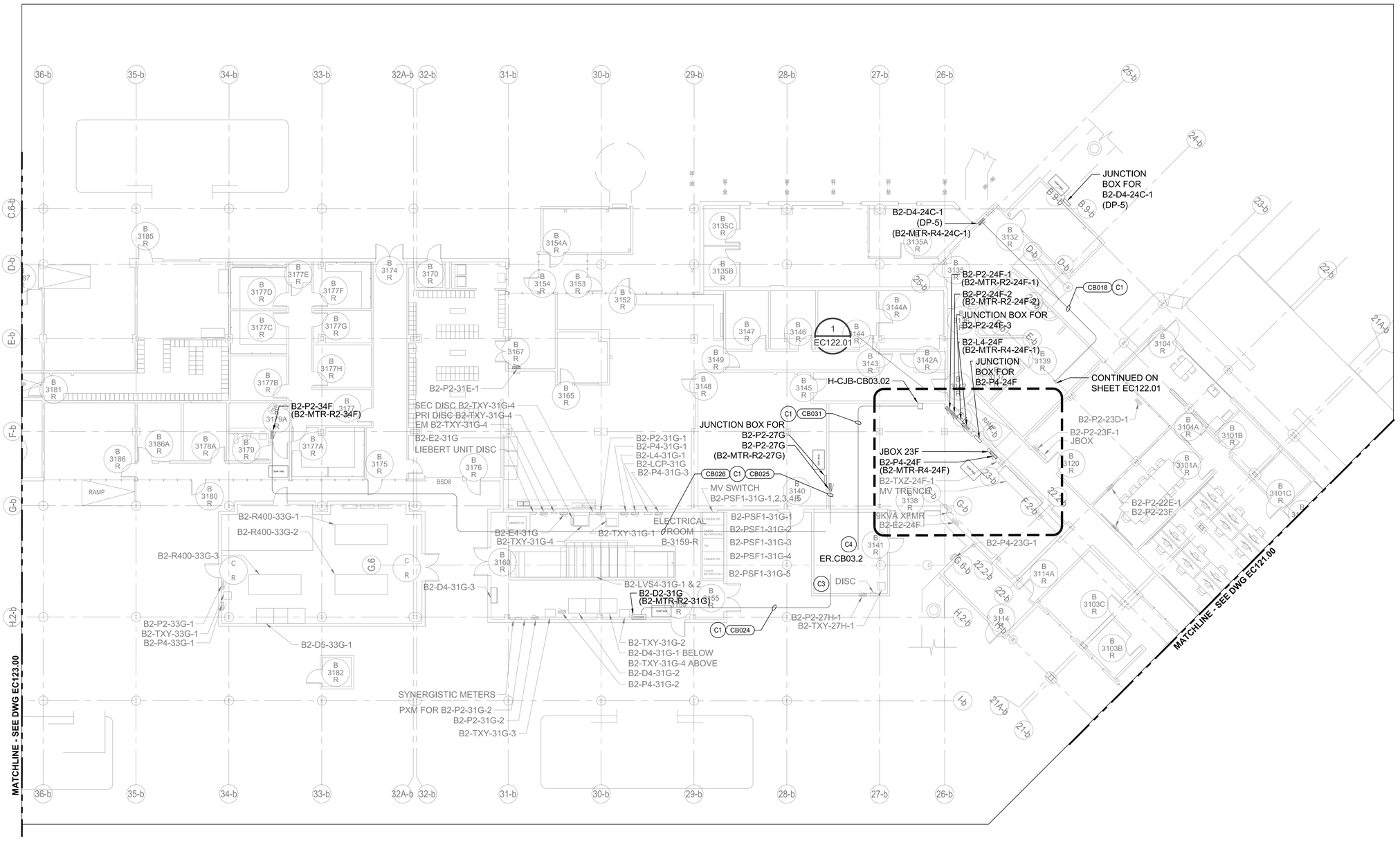
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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



VICINITY PLAN
NO SCALE

3/32"=1'-0"
5 0 5 10 15 20 25 30
Scale Feet

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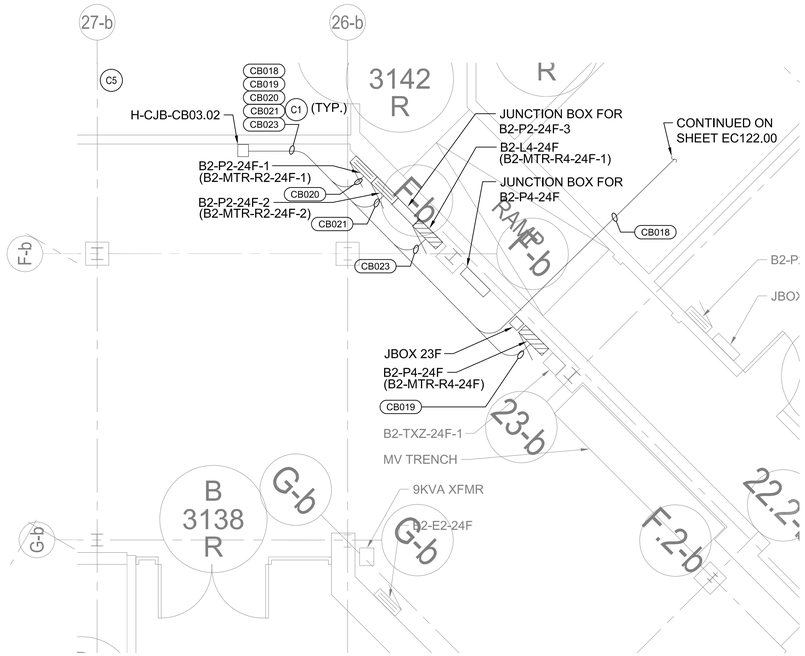
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POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 122

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC122.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 1/4" = 1'-0"

1
EC122.00

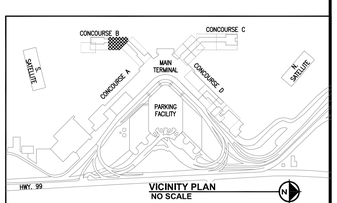
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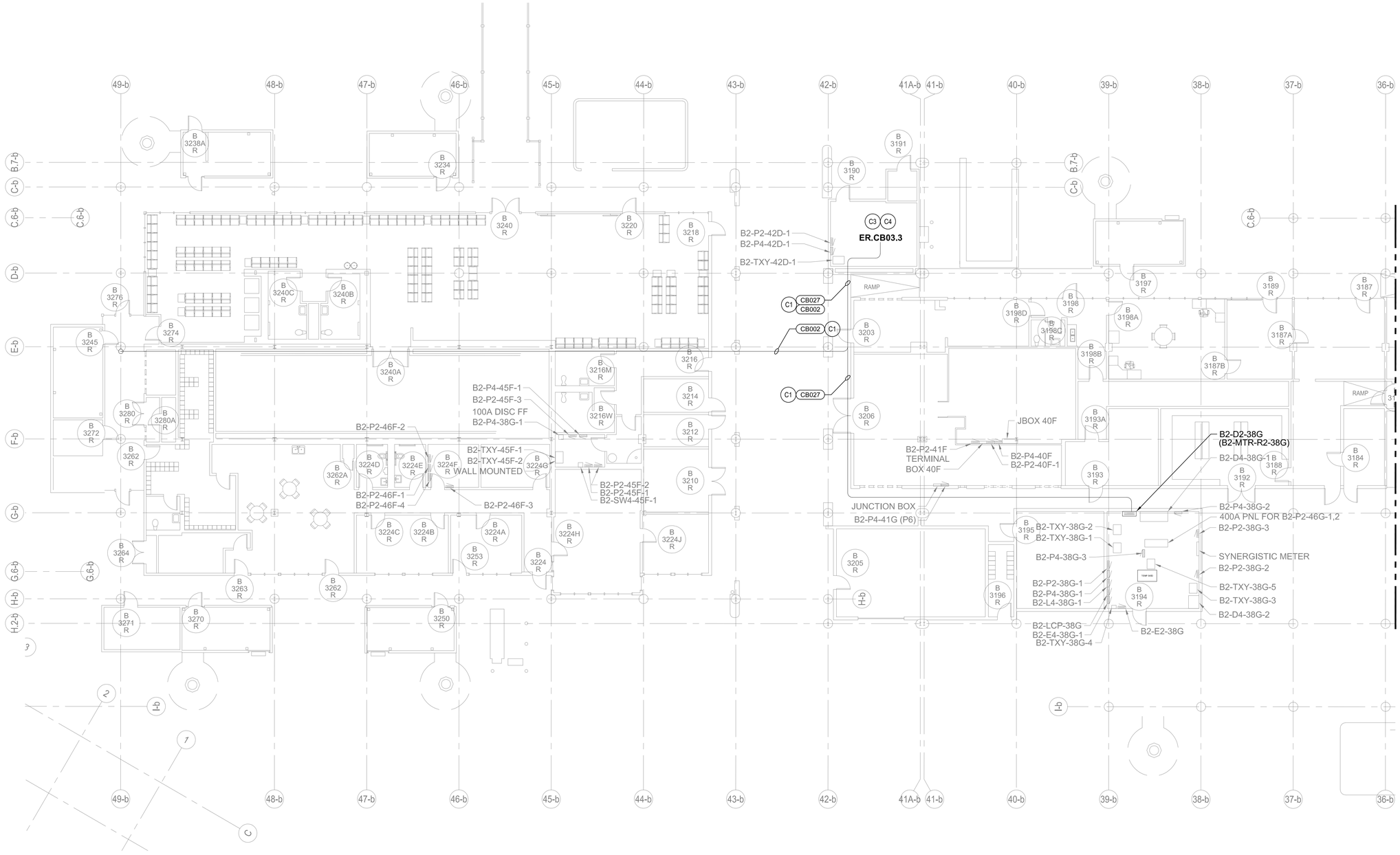
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 122

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC122.01



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1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

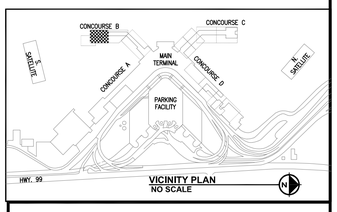
(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C4) EXTEND CONDUIT INTO COMM ROOM. PORT TECHNICIAN TO TERMINATE FIBER AT APPROPRIATE LOCATION INSIDE COMM ROOM.

PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH/M. NAMAZI
DRAWN BY:	C. ALLISON
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 123

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC123.00

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

Send Completed Applications to:	**AVCommittees@portseattle.org**	Received by F&I:	Click or tap to enter a date.

SECTION 1 *(to be completed by POS Project Manager)*

1.1: Acknowledgement:

☒	I have completed an Application for Connection for connection to COMMUNICATION INFRASTRUCTURE	☒	I am using the current Application version [For your convenience, below link is to all applications and instructions] (Applications for Utilities Connections | Port of Seattle (portseattle.org)
☐	This Special System(s) connects to EXISTING Comm Infrastructure and an Application for Connection to COMMUNICATION INFRASTRUCTURE does not apply	☒	I have reviewed the Application for Connection to Special Systems Instructions (Periodically check for updated information and support)

1.2 Project Coding:

Submittal Date:	CIP #:	Project ID:	Activity:	Phase:
6/26/2024	Click or tap here to enter text.	**U00504**	**Concourse Low Voltage System Upgrade**	**90%**

1.3: Project includes Special Systems Hardware and/or Applications involving (check all that apply):

NOTE: For further details of below list, including vendors and system owners, please reference: Special Systems Matrix_2023.xlsx (sharepoint.com)

☐	800 MHz Radio	☐	Access Control System (ACS)	☐	Airport Breach/Duress System
☐	Bag Carousel Information Displays	☐	Baggage Keypad System	☐	BioMetric Air Exit System
☐	Border Entry (APC) System	☐	**Cable Television** (complete Section 1.5)	☐	Cellular Distributed Antenna System
☐	Carbon Monoxide Monitoring System	☐	Common Use Terminal Equip. (CUTE)	☐	Common Use Self-Service (CUSS)
☐	Electric Ground Support Equip. (EGSE)	☐	Fire Alarm System (FAS)	☐	Flight Information Displays (FIDS)
☐	GPS Fleet Tracking -Rental Car Bus Wait Time	☐	Intercom Systems	☐	Intelligent Transportation System (ITS) Roadway Digital Signage
☐	Parking Revenue Control System	☐	Passenger Flow System	–	*Future System (placeholder)*
☐	Perimeter Intrusion Detection Sys. (PIDS)	☐	POS/SEA Digital Displays	☒	Power Monitoring System (EMS)
☐	**Radio Frequency -Inc. FCC Licensed Systems** (complete Section 1.6)	☐	Surface Area Mgmt. System (SAMS)	☐	Satellite Transit System Communications Display
☐	Supervisory Control and Data Acquisition (SCADA)	☐	Terminal Wide Voice Paging (TWVPS)	–	*Future System (placeholder)*
☐	Time to Train System (STS Train Display)	☐	Vendor Electronic Displays	☐	Video Management System (VMS)
☐	Visual Docking Guidance Sys. (Safe Dock)	☐	Smart Bathroom (1 year Pilot)	–	*Future System (placeholder)*
☐	SYSTEM(s) - OTHER or NEW (Or additional notes opportunity)	Click or tap here to enter text.			

1.4: Project Contacts:

Group:	Company:	Representative:	Phone:	Email:
SEA PM:	Port of Seattle	Christina Burdett	(206) 518-4439	burdett.c@portseattle.org
Design Firm:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Systems Design Engineer:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Tenant Rep.:	N/A	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

1.5: Cable Television Service Details: (if not applicable, skip to section 1.6)

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

Project Name or Tenant Space ID:	Click or tap here to enter text.	Demarcation Panel ID:	Click or tap here to enter text.

Total number of displays:	#?	*Demarcation to display horizontal coax is:*	Home run to each display ☒	RG-6 or greater ☒ Installed by owner ☒

Television Owner/ Tenant Operator	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Any additional contacts to note? (Not listed in section 1.4) Include Project Role, Company, Rep., Phone, and Email per contact:

Click or tap here to enter text.

1.6: Radio Frequency Systems- Including systems requiring FCC License: (if not applicable, skip to Section 2)

RF Service Type:	☐	Cellular	☐	Data	☐	VHF	☐	UHF	☐	Wi-Fi	☐	Broadcast TV antenna	☐	Other (add notes below)
	RF Service Notes:	Click or tap here to enter text.												

NOTE: Wi-Fi Systems for SEA Tenant shall be installed to keep strongest signal within leased footprint. Do NOT use SEA Airport reserved channels of 1, 6, and 11

Wi-Fi MAC address:	Click or tap here to enter text.	Radio type (802.11a, b, or g):	Click or tap here to enter text.

Antenna Install Date Tracking:	Proposed START:	Click or tap to enter a date.	Proposed Completion:	Click or tap to enter a date.	Proposed Cut-over (if req.):	Click or tap to enter a date.

Antenna Location(s) Tracking:	Amt:	Longitude:	Latitude:	Height:	Frequency Range:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Antenna Owner/ Operator	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Complete items below for FCC licensed antenna systems

FCC Applicant	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

FCC Approval Date (per Frequency):	Click or tap here to enter text.
Approval End Date (per Frequency):	Click or tap here to enter text.

Frequency Range:	Click or tap here to enter text.	Output Power:	Click or tap here to enter text.

FCC License Type	☐	Permanent	☐	Temporary	Copy of FCC License submitted:	☐	Yes	☐	No

Any additional contacts to note? (Not listed in section 1.4) Include Project Role, Company, Rep., Phone, and Email per contact:

Click or tap here to enter text.

SECTION 2 *(to be completed by Communications Design Engineer)*

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

2.1: Acknowledgement:			
☒	I have reviewed the applicable sections of the F&I SEA COMMUNICATION STANDARDS related to this project's communication design. *Periodically check for updated information: Design Standards and Guidelines | Port of Seattle (portseattle.org)	☒	Comm/Special Systems Design Engineer(s) have been coordinating with Architectural, Electrical, Mechanical, and Civil teams for projects where applicable; especially on those that include new/remodeled comm rooms

2.2: Project Design Questionnaire:

YES	NO	N/A	See Notes	Design Engineer has provided design documentation for the following	Complete if "See Notes" box is selected
☒	☐	☐	☐	**SEA Facility CAD Backgrounds** (Include any Outside Plant, building floor, RCP Plans, etc. that detail Special System hardware)	Click or tap here to enter text.
☒	☐	☐	☐	**One-line, System Schematics,** and/or **Riser diagram(s)**	Click or tap here to enter text.
☐	☐	☒	☐	**Elevation Plans** (Including wall field, and rack/cabinet elevations. Provide any details where Special Systems Hardware is to be mounted or installed)	Click or tap here to enter text.
☐	☐	☒	☐	**Radio Frequency Plans** (Including FCC License Submittals and antenna mounting details)	Click or tap here to enter text.
Additional information (optional):				Click or tap here to enter text.	

SECTION 3: APPLICATION STATUS *(to be completed by Facilities and Infrastructure Communication Engineer)*

3.1: Application compliance checklist:

YES	NO	N/A	See Notes	Confirm Items:	Completed if "See Notes" box is selected
☐	☐	☐	☐	Eligible for Expedited Review(s)	Click or tap here to enter text.
☐	☐	☐	☐	Associated *Application for Connection to Comm. Infrastructure* completed	Click or tap here to enter text.
☐	☐	☐	☐	COMM Design drawings included	Click or tap here to enter text.
☐	☐	☐	☐	Includes Utility and/or Licensed Connection (see 1.5 and/or 1.6)	Click or tap here to enter text.

3.2: Application Status:

☐ **Approved** ☐ **Approved as Noted** (see below) ☐ **Revise and Resubmit** ☐ **Rejected**

Notes: Click or tap here to enter text.

Attend Special Systems Design Review at:	30%	60%	90%	100%	Other:	1st Application Received at %:	Choose an item.
	☐	☐	☐	☐	☐ Click or tap here to enter text.		

Facilities and Infrastructure Communication Reviewer:

Date: Click or tap to enter a date.

CONCOURSE B POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ESTIMATED LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
B200	B2-P2-34F	B2-P2-38G-1	50	70	1-1/4"		4 - #4	#6	180'	180'	1.9	EP501.00
B201	NOT USED											
B202	B2-D2-38G	B2-TXY-38G-2	400	400	RETAINED 3" REUSED	2	4 - #3/0	#2	20'	20'	0.4	EP501.00, EP505.00
B203	B2-P2-17D-1 (F)	B2-TXY-17D-1	50	55	1"		4 - #6	#8	15'	15'	0.2	EP501.00
B204	B3-P2-35I-1	B2-D2-38G	100	95	RETAINED 1-1/4" REUSED		4 - #2	#8	200'	200'	2.6	EP505.00, EP507.00
B205	B2-P2-40F-1	B2-D2-38G	100	95	RETAINED 2" REUSED		4 - #2	#8	75'	75'	1.0	EP505.00, EP507.00
B206	NOT USED											
B207	NOT USED											
B208	B2-P2-27G	B2-P2-31G-2	150	150	RETAINED 2" REUSED		4 - #1/0	#6	130'	130'	1.6	EP506.00
B209	B2-P2-24F-1	B2-P2-31G-2	100	95	RETAINED 2" REUSED		4 - #2	#8	180'	180'	2.3	EP506.00
B210	B2-P2-24F-2	B2-P2-31G-2	100	95	RETAINED 2" REUSED		4 - #2	#8	180'	180'	2.3	EP506.00
B211	NOT USED											
B212	B2-D2-31G	B2-TXY-31G-2	500	510	RETAINED (2)3" REUSED	2	4 - #250kcmil	#1/0	8'	8'	0.1	EP506.00
B213	B3-P2-G.6/31-1	B2-D2-31G	200	200	RETAINED 2" REUSED		4 - #3/0	#6	105'	105'	1.1	EP506.00, EP508.00
B214	B3-P2-G.6/31-2	B2-D2-31G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	100'	100'	1.0	EP506.00, EP508.00
B215	B3-P2-31/G-1	B2-D2-31G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	106'	106'	1.1	EP506.00, EP508.00
B216	NOT USED											
B217	NOT USED											
B218	NOT USED											
B219	NOT USED											
B220	NOT USED											
B221	NOT USED											
B222	B2-P2-12E-1	B2-P2-17G-1	100	95	1-1/4"		4 - #2	#8	170'	170'	2.2	EP504.00
B223	B2-P2-12E-2	B2-P2-17G-1	100	95	1-1/4"		4 - #2	#8	170'	170'	2.2	EP504.00
B224	B2-P2-12E-3	B2-P2-17G-1	100	95	RETAINED 1-1/2" REUSED		4 - #2	#8	170'	170'	2.2	EP504.00
B225	NOT USED											
B226	B2-P2-5F	B2-P2-17I.9-1	125	175	2"		4 - #2/0	#4	295'	295'	2.4	EP504.00
B227	B2-P2-5F-1	B2-P2-5F	100	95	RETAINED 1-1/4" REUSED		4 - #2	#8	60'	60'	0.8	EP504.00
B228	B2-P2-12F	B2-P2-17I.9-1	50	55	1"		4 - #6	#10	160'	160'	2.7	EP504.00
B229	B2-D2-17G	B2-TXY-17G-2	500	510	RETAINED (2)3" REUSED	2	4 - #250kcmil	#1/0	20'	20'	0.2	EP504.00
B230	B3-P2-18-1.9-1	B2-D2-17G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	100'	100'	1.0	EP504.00, EP509.00
B231	B3-P2-B.9/18-1	B2-D2-17G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	160'	160'	1.6	EP504.00, EP509.00
B232	B3-P2-21G-1	B2-D2-17G	100	95	RETAINED 2" REUSED		4 - #2	#8	150'	150'	1.9	EP504.00, EP509.00
B233	B3-P2-H14-1	B2-D2-17G	200	200	RETAINED 2-1/2" REUSED		4 - #3/0	#6	125'	125'	1.3	EP504.00, EP509.00
B234	B3-P2-18D-1	B2-D2-17G	200	200	RETAINED 3" REUSED		4 - #3/0	#6	160'	160'	1.6	EP504.00, EP509.00
B400	B2-TXY-17D-1	B2-P4-12E-2	30	40	3/4"		3 - #8	#8	130'	145'	1.0	EP501.00
B401	B2-D4-24C-1 (DP-5)	B2-D4-31G-2	225	230	2"		4 - #4/0	#4	250'	250'	1.0	EP503.00
B402	B2-L4-24F	B2-D4-15G-1	50	55	RETAINED 1-1/4" REUSED		4 - #6	#10	195'	195'	1.4	EP500.00
B403	B2-P4-24F	B2-D4-15G-1	100	95	1-1/4"		4 - #2	#8	185'	185'	1.0	EP500.00
B404	NOT USED											
B405	NOT USED											
B406	NOT USED											
B407	NOT USED											
B408	NOT USED											
B409	B2-L4-12E	B2-P4-17I.9-1	50	55	RETAINED 1-1/2" REUSED		4 - #6	#10	200'	200'	1.5	EP504.00
B410	NOT USED											

EMERGENCY POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ACTUAL LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
E400	C1-E4-38D-1	C2-E4-39/D-1	100	115	RETAINED 2" REUSED	1	4 - #2	#8	45'		0.3	EP519.00
E401	B1-E4-G53	B1-E4-D/7-1	50	55	RETAINED 1-1/4" REUSED	1	4 - #6	#10	50'		0.4	EP511.00
E402	B2-E4-12E	B2-E4-17G	60	55	MC	1	4 - #6	#6	150'		1.1	EP511.00
E403	NOT USED											
E404	B2-ETXZ-12E-2	B2-E4-12E	30	30	3/4"	1	2 - #10	#10	50'		0.6	EP511.00

CONCOURSE B COMMUNICATIONS FEEDER SCHEDULE

FEEDER #	TO (METER)	TO (ELEC PANEL)	TO (ELEC ROOM)	FROM	FROM (ROOM)	CONDUIT SIZE	CONDUCTOR	ESTIMATED LENGTH IN FEET - ENGINEER	ACTUAL LENGTH - CONTRACTOR	ONE LINE SHEET #
CB001	B1-MTR-R4-G53	B1-E4-G53	B-1106A-TR	H-CES-B01.01	B-1106A-TR	3/4"	1 CAT 6	50'		EC500.00
CB002		H-CES-B1.01	B-1106A-TR	ER.CB03.3	B-3190-R	3/4"	12 STRAND SM FIBER	220'		EC500.00
CB003	B2-MTR-R2-5F	B2-P2-5F	B-3033-R EXT	ER.CB03.1	B-3034B-R	3/4"	1 CAT 6	100'		EC501.00
CB004	NOT USED									
CB005	B2-MTR-R2-12F	B2-P2-12F	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	30'		EC501.00
CB006	B2-MTR-R3-12E-1	B2-E3-12E-1	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	25'		EC501.00
CB007	B2-MTR-R4-12E	B2-E4-12E	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	20'		EC501.00
CB008	NOT USED									
CB009	NOT USED									
CB010	NOT USED									
CB011	B2-MTR-R4-12E-3	B2-L4-12E	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	20'		EC501.00
CB012	NOT USED									
CB013	B2-MTR-R2-12E-1	B2-P2-12E-1	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	15'		EC501.00
CB014	B2-MTR-R2-12E-2	B2-P2-12E-2	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	15'		EC501.00
CB015	B2-MTR-R2-12E-3	B2-P2-12E-3	B-3064-R	H-CJB-CB03.01	B-3064-R	3/4"	1 CAT 6	5'		EC501.00
CB016	B2-MTR-R2-17D-1	B2-P2-17D-1 (F)	B-3083-R	ER.CB03.1	B-3034B-R	3/4"	1 CAT 6	210'		EC501.00
CB017	B2-MTR-R2-17G	B2-D2-17G	B-3084-R	ER.CB03.1	B-3034B-R	3/4"	1 CAT 6	185'		EC501.00
CB018	B2-MTR-R4-24C-1	B2-D4-24C-1 (DP-5)	B-3135-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	115'		EC502.00
CB019	B2-MTR-R4-24F	B2-P4-24F	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	30'		EC502.00
CB020	B2-MTR-R2-24F-1	B2-P2-24F-1	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	15'		EC502.00
CB021	B2-MTR-R2-24F-2	B2-P2-24F-2	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	15'		EC502.00
CB022	NOT USED									
CB023	B2-MTR-R4-24F-1	B2-L4-24F	B-3138-R	H-CJB-CB03.02	B-3138-R	3/4"	1 CAT 6	20'		EC502.00
CB024	B2-MTR-R2-31G	B2-D2-31G	B-3160-R	ER.CB03.2	B-3141-R	3/4"	1 CAT 6	65'		EC502.00
CB025	B2-MTR-R2-27G	B2-P2-27G	B-3138-R	ER.CB03.2	B-3141-R	3/4"	1 CAT 6	25'		EC502.00
CB026	B2-MTR-R2-34F	B2-P2-34F	B-3179A-R	ER.CB03.2	B-3141-R	3/4"	1 CAT 6	160'		EC502.00
CB027	B2-MTR-R2-38G	B2-D2-38G	B-3194-R	ER.CB03.3	B-3190-R	3/4"	1 CAT 6	140'		EC500.00
CB028	NOT USED									
CB029	NOT USED									
CB030	H-CJB-CB03.01	N/A	B-3064-R	ER.CB03.1	B-3034B-R	1-1/2"	11 CAT 6	90'		EC501.00
CB031	H-CJB-CB03.02	N/A	B-3138-R	ER.CB03.2	B-3141-R	1-1/4"	5 CAT 6	60'		EC502.00

GENERAL NOTES

1. POWER CONDUITS 2" AND LARGER SHALL BE GRS.

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522–1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C.CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

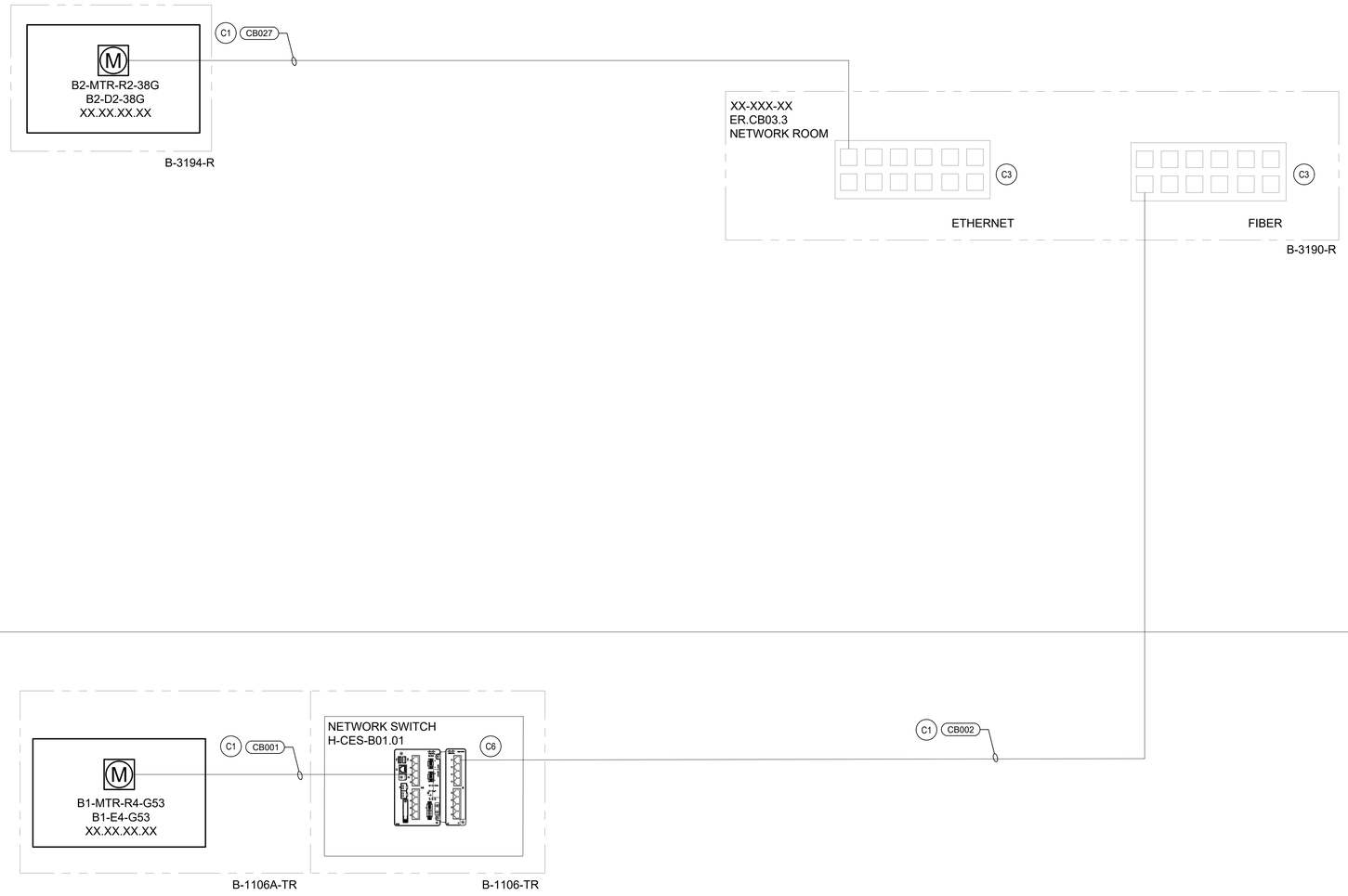
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: FEEDER SCHEDULES - CONCOURSE B & EMERGENCY

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 E010.00



DETAIL 1
COMMUNICATION RISER EC500.00
METERING NETWORK RISER DIAGRAM
SCALE: NTS

REFERENCE DRAWINGS

1. STIA2411E400 SERIES: NETWORK/METERING DETAILS.
2. STIA2411E010.00: CONDUIT FEEDER SCHEDULE - COMMUNICATION

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C6) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN EXISTING NETWORK CABINET FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/2024

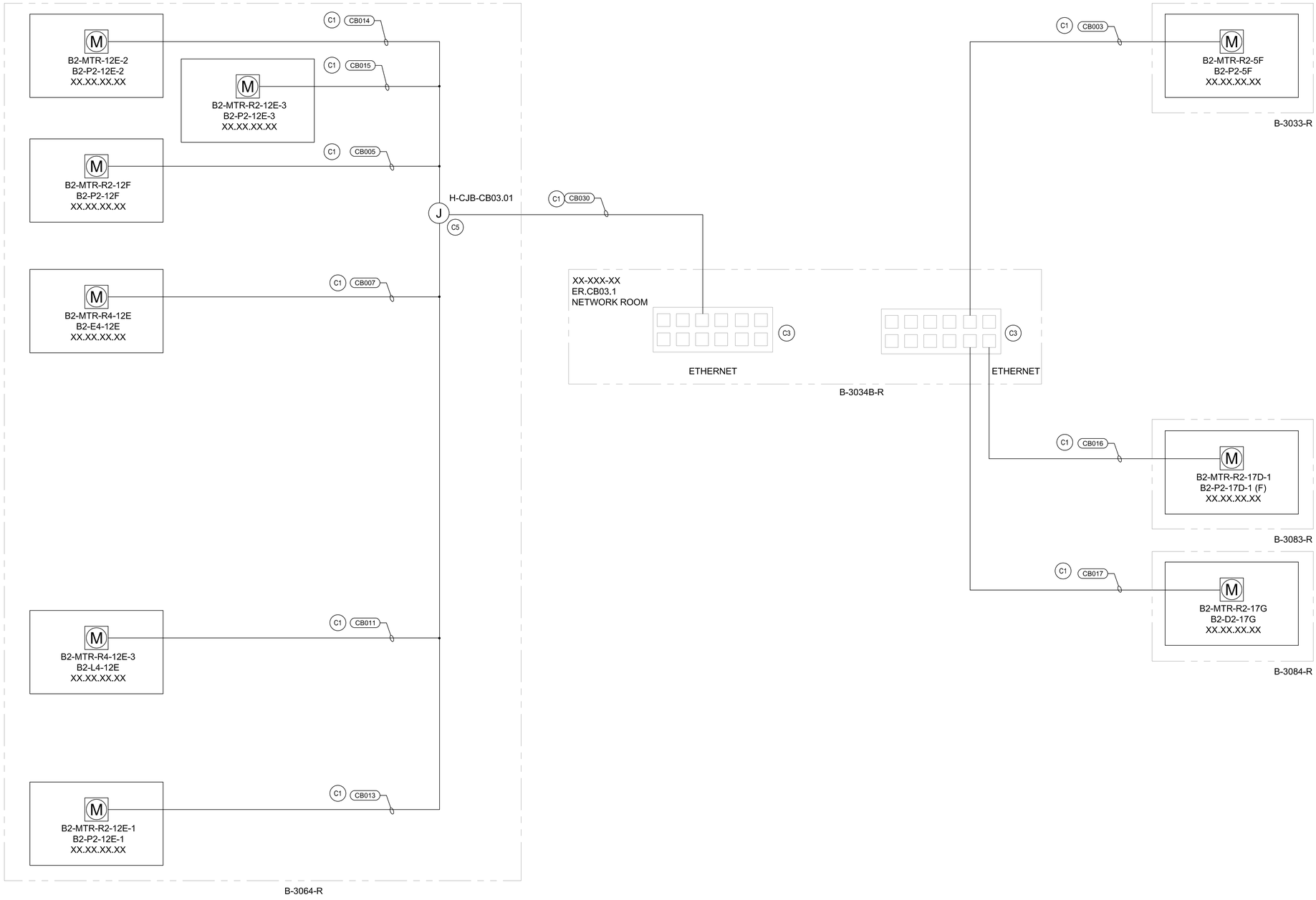
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POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE B

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC500.00



RAMP LEVEL

REFERENCE DRAWINGS

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DETAIL

COMMUNICATION RISER
METERING NETWORK RISER DIAGRAM
SCALE: NTS

1
EC501.00

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BELLEVUE, WA 98006
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DATE: 06/26/2024
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

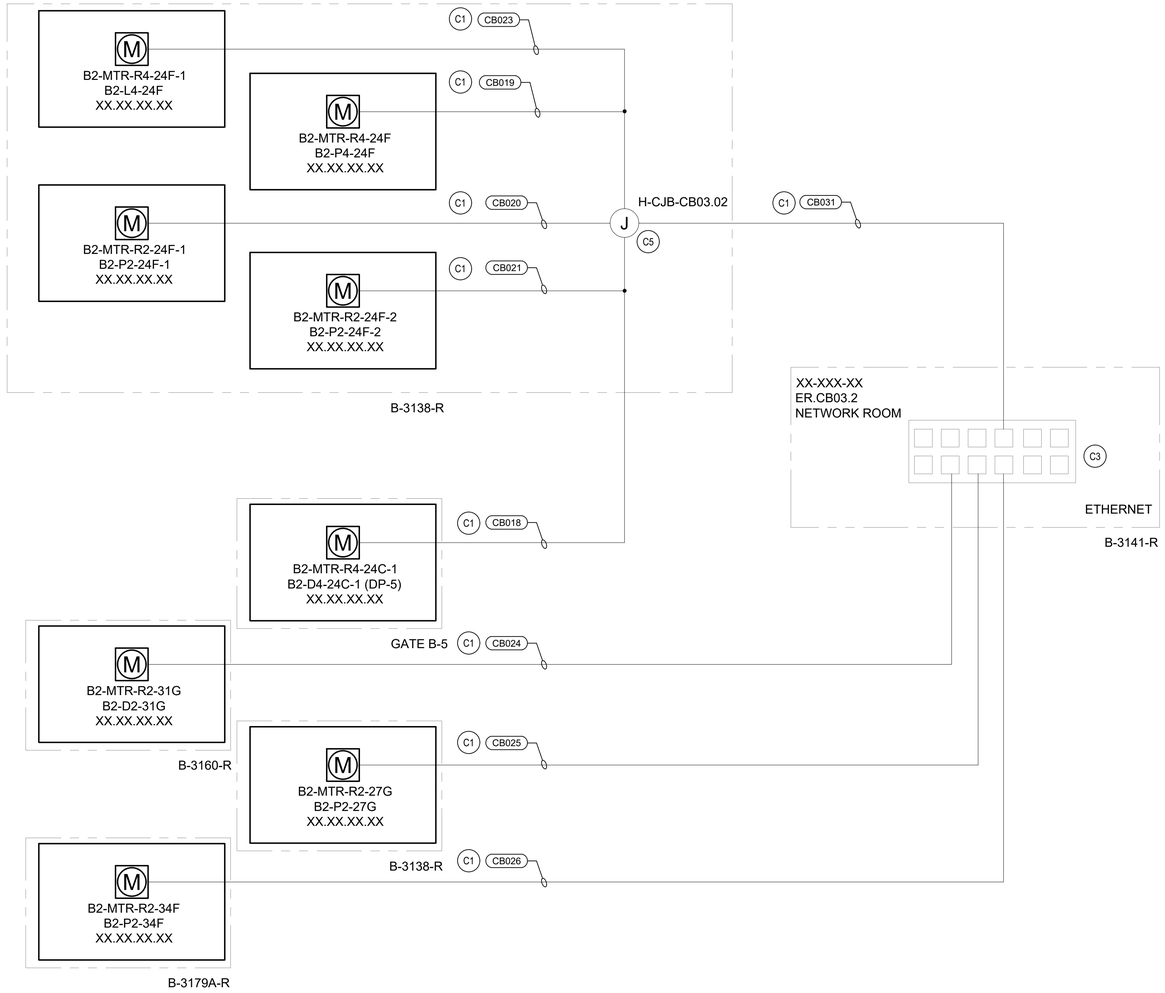
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE B

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC501.00



RAMP LEVEL

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DETAIL 1
COMMUNICATION RISER
METERING NETWORK RISER DIAGRAM
SCALE: NTS
EC502.00

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BELLEVUE, WA 98006
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DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
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CURTIS E. CLUTE STATE OF WASHINGTON 35276 REGISTERED PROFESSIONAL ENGINEER

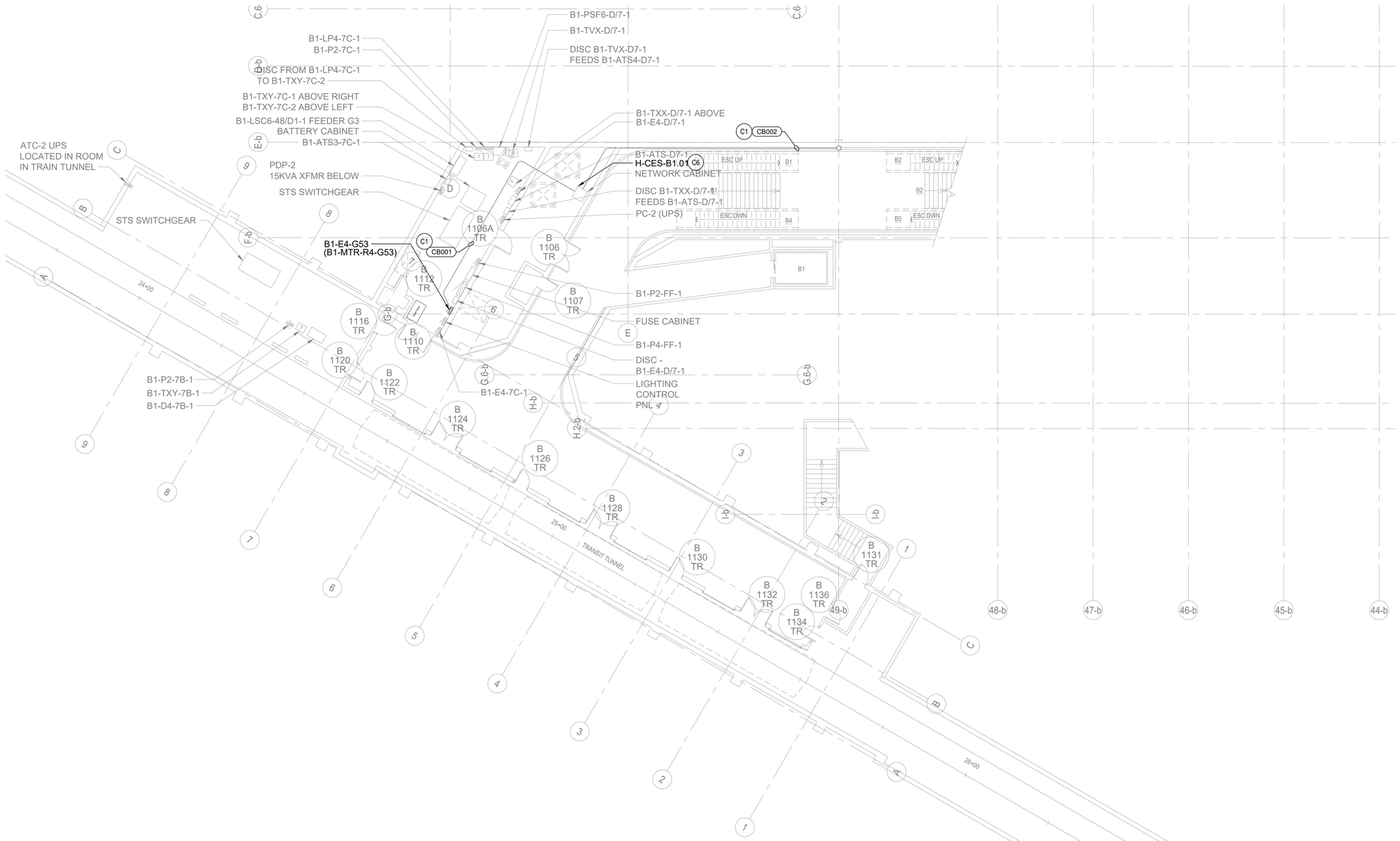
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE B

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC502.00



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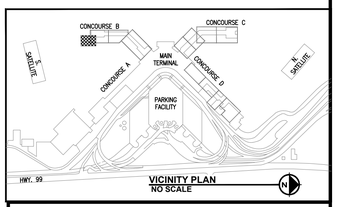
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PLAN

COMMUNICATION PLAN
STS LEVEL
SCALE: 3/32" = 1'-0"



VICINITY PLAN
NO SCALE

3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
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PROJECT ENGR./ARCH:	R. JENTGES
DESIGNER:	A. FITCH
DRAWN BY:	C. ALLISON
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE · STATE OF WASHINGTON · 35276 · REGISTERED PROFESSIONAL ENGINEER

REVISIONS

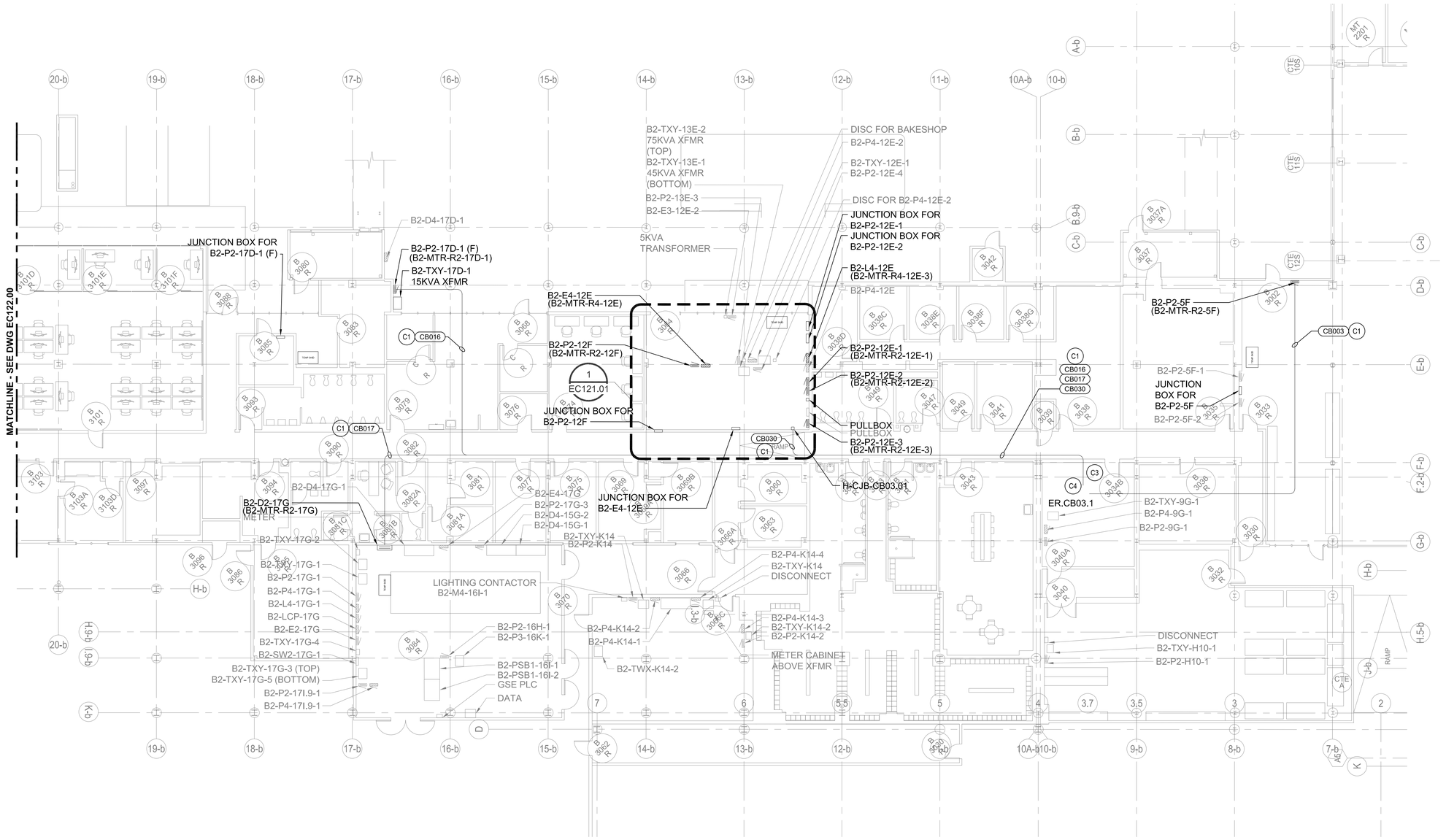
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POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - STS LEVEL - SECTOR 114

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER:	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC114.00



GENERAL NOTES

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KEYED NOTES

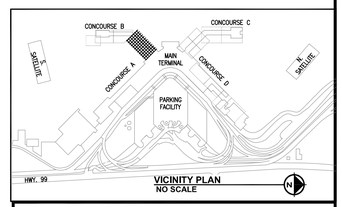
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(C4) EXTEND CONDUIT INTO COMM ROOM. PORT TECHNICIAN TO TERMINATE FIBER AT APPROPRIATE LOCATION INSIDE COMM ROOM.

PLAN

COMMUNICATION PLAN
STS LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale: 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH/M. NAMAZI
DRAWN BY:	C. ALLISON
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

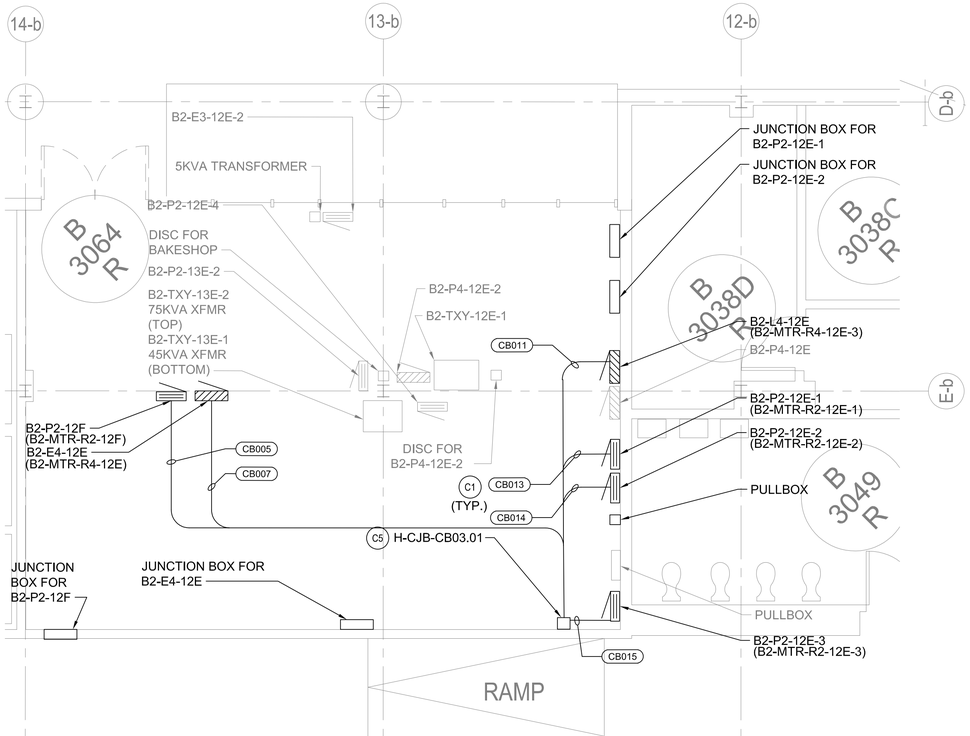
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POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 121

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC121.00



ENLARGED PLAN

COMMUNICATION PLAN
STS LEVEL
SCALE: 1/4" = 1'-0"

1
EC121.00

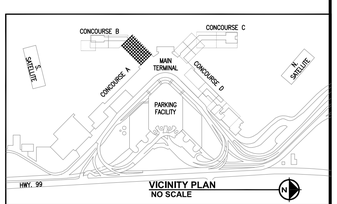
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VICINITY PLAN
NO SCALE

1/4"=1'-0" Scale
2 0 2 4 6 8 10 Feet

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POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 121

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC121.01

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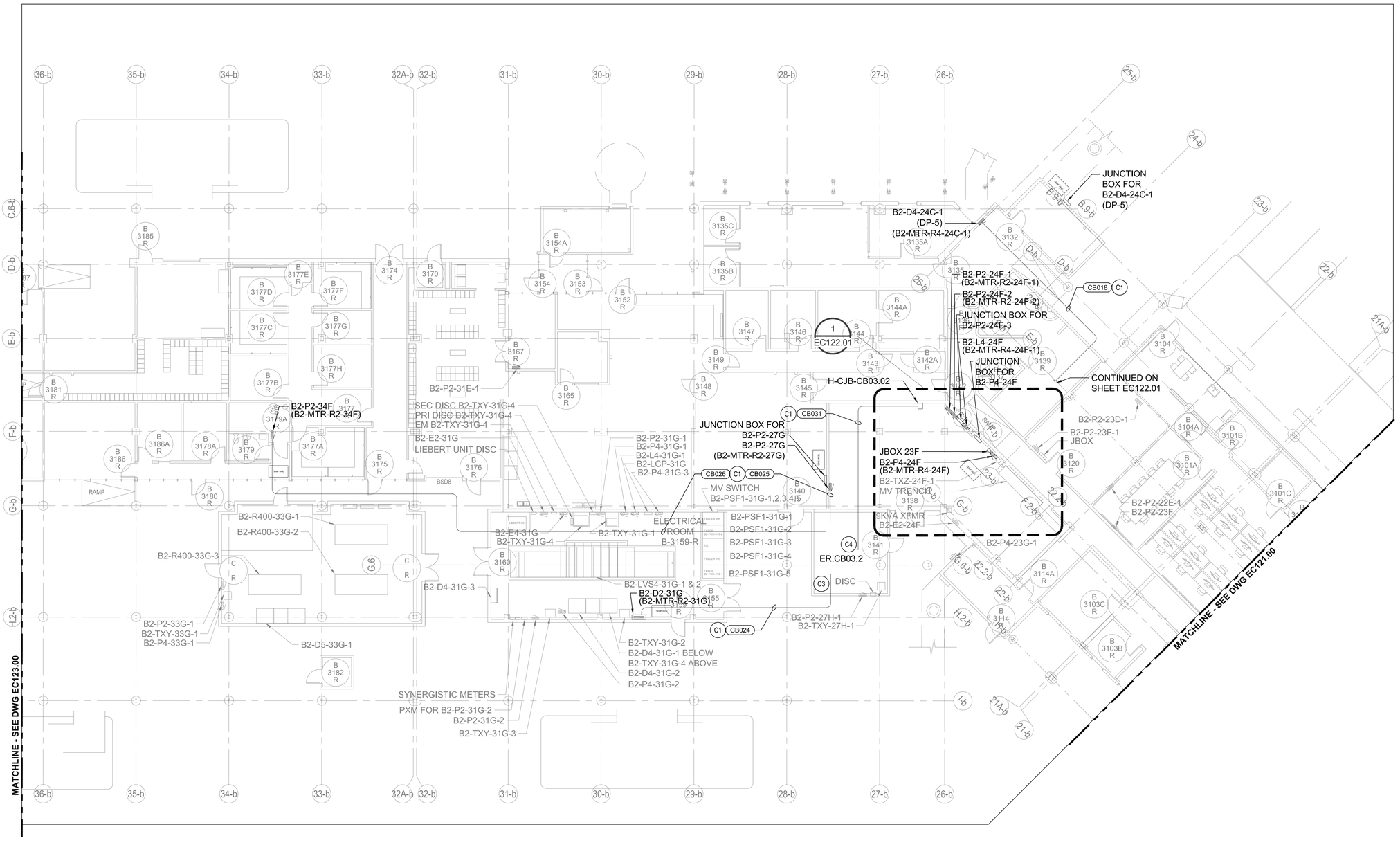
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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



VICINITY PLAN
NO SCALE

3/32"=1'-0"
5 0 5 10 15 20 25 30
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

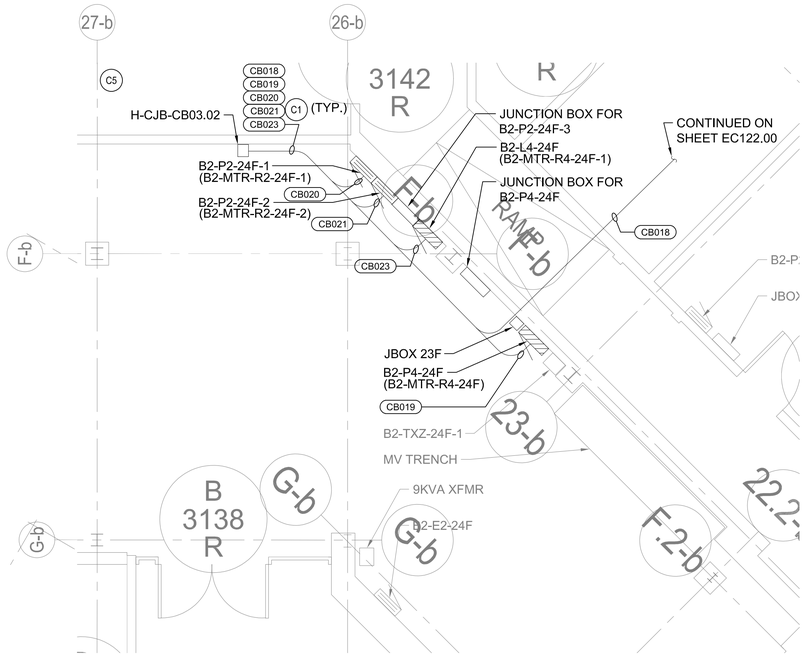
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 122

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC122.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 1/4" = 1'-0"

1
EC122.00

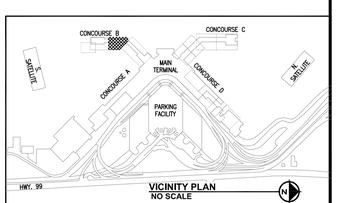
GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.



N

1/4"=1'-0" 2 0 2 4 6 8 10
Scale Feet

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CURTIS E. CLUTE
STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER
06/26/24

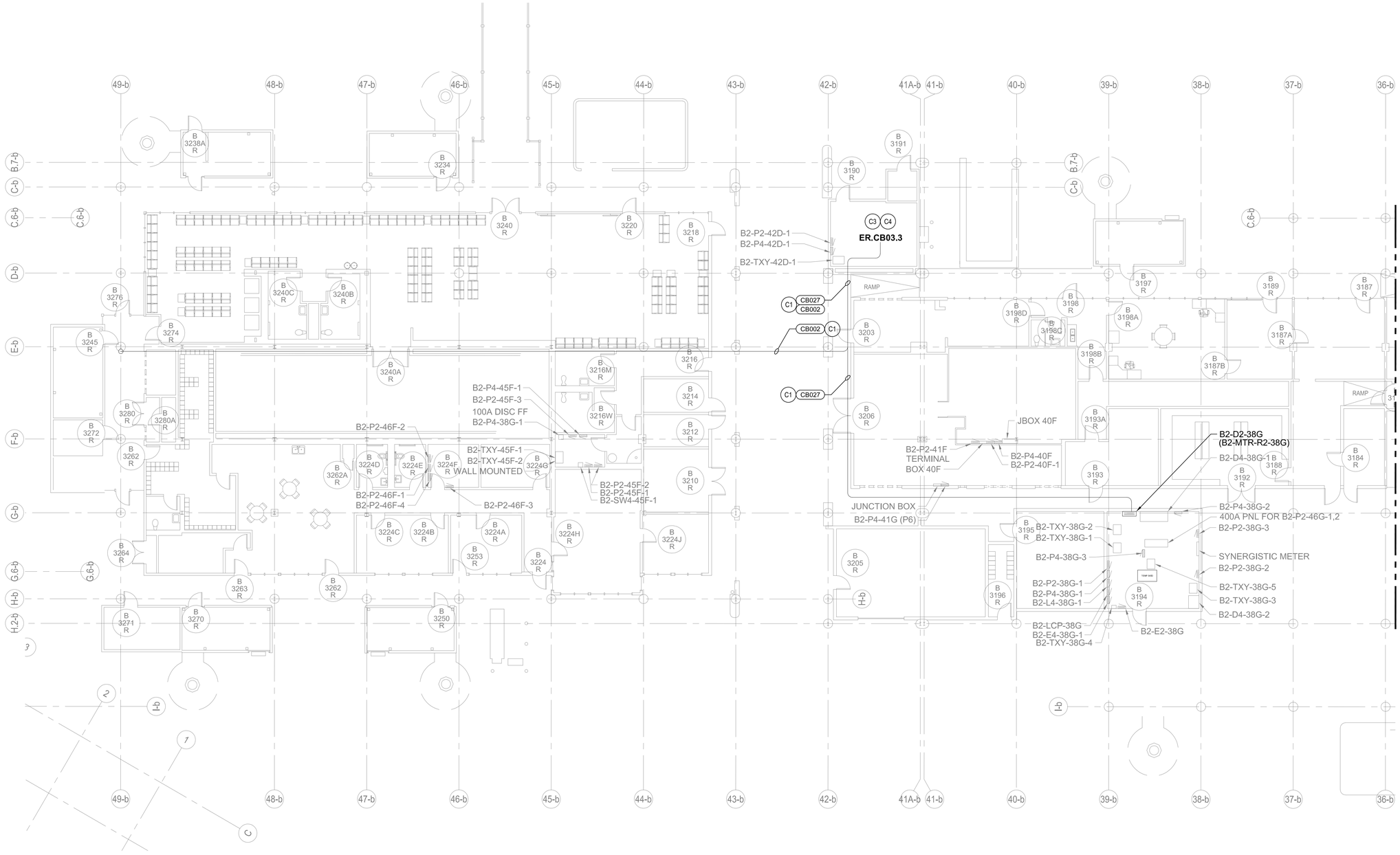
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 122

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC122.01



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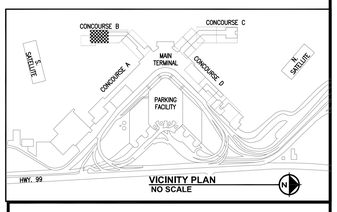
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(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C4) EXTEND CONDUIT INTO COMM ROOM. PORT TECHNICIAN TO TERMINATE FIBER AT APPROPRIATE LOCATION INSIDE COMM ROOM.

PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE B - BAGGAGE LEVEL - SECTOR 123

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC123.00

APPLICATION FOR CONNECTION TO COMMUNICATION INFRASTRUCTURE
-FORM-

Send Completed Applications to:	**AVCommittees@portseattle.org**	Received by F&I:	Click or tap to enter a date.

SECTION 1 *(to be completed by POS Project Manager)*

1.1: Acknowledgement, Infrastructure Nomenclature, and COMM Connection Process:

☒	I have reviewed the Application for Connection to Communication System Instructions (Periodically check for updated information and support)	☒	I am using the current Application version [For your convenience, below link is to all applications and instructions] (Applications for Utilities Connections | Port of Seattle (portseattle.org)

YES	NO	N/A	REQUESTED	
☐	☒	☐	☐	**COMM Infrastructure Connections***- I have media termination assignment(s) and nomenclature from ICT Infrastructure (z-it-telecom-infra@portseattle.org) **(*) Required no later than 90% and inc. on design**
YES	NO	N/A	UNKNOWN	
☒	☐	☐	☐	Project shall require an **Application for Connection to Special Systems**. Review the Special Systems Application or the (Special Systems Matrix_2023.xlsx (sharepoint.com) for more information

1.2 Project Coding:

Submittal Date:	CIP #:	Project ID:	Activity:	Phase:
6/26/2024	Click or tap here to enter text.	U00504	Concourse Low Voltage System Upgrade	90%

1.3: Project includes Communication Infrastructure involving (check all that apply):

☐	New Facility (Including expansion of existing facility)	☐	Airline Support (PLB, Ticket Counter, Gate Service, Lounge, etc.)
☐	Remodel to existing Facility	☐	Office space(s) (distribution of Horizontal Cabling)
☐	New Communication Room(s)	☒	Existing Infrastructure Adds, Moves, and/or Changes (to Rooms, Pathways, and/or Cabling)
☐	New Comm Cabinet(s) (MDC, SDC, FTBS, Tenant DMARC)	☐	Auxiliary building(s) or space(s) outside of SEA Terminal
☐	Outside Plant (Pathways, Enclosures, and/or Cable)	☒	Special System(s) -Requires an Application for Connection to Special Systems to be completed
☐	Other:	Click or tap here to enter text.	

1.4: Connection Specifics:

COMM CONNECTION TYPE:	**HORIZONTAL MEDIA (Device/Destination CABLE INFRA. to COMM/Source**		
TO COMM RM:	**See attached plans and one-lines**	***or COMM CABINET:***	Click or tap here to enter text.
Additional Project Notes: (Brief notes to provide any comm connection details not captured above)	Connection form for metering installed with new panels in Concourse C.		

1.5: Project Contacts:

Group:	Company:	Representative:	Phone:	Email:
SEA PM:	Port of Seattle	Christina Burdett	(206) 518-4439	burdett.c@portseattle.org
Design Firm:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
COMM Design Engineer:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Tenant Rep.:	N/A	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

SECTION 2 *(to be completed by Communications Design Engineer)*

APPLICATION FOR CONNECTION TO COMMUNICATION INFRASTRUCTURE
-FORM-

2.1: Acknowledgement:			
☒	I have reviewed the applicable sections of the F&I SEA COMMUNICATION STANDARDS related to this project's communication design. *Periodically check for updated information: Design Standards and Guidelines | Port of Seattle (portseattle.org)	☒	Comm Design Engineer has been coordinating with Architectural, Electrical, Mechanical, and Civil teams for projects where applicable; especially on those that include new/remodeled comm spaces

2.2: Project Design Questionnaire:					
YES	NO	N/A	See Notes	Design Engineer has provided design documentation for the following (**BOLD**= Minimum design documentation to provide with Application applicable to design)	Complete if "See Notes" box is selected
☒	☐	☐	☐	**SEA Facility CAD Backgrounds** (Include any Outside Plant, building floor and/or RCP Plans, etc. Provide detail of all Backbone and Horizontal pathways with cable fill amounts from Source to Destination	Click or tap here to enter text.
☒	☐	☐	☐	**One-line** and/or **Riser diagram(s)**	Click or tap here to enter text.
☒	☐	☐	☐	**Cable Schedules** (Shall include all Cable ID's and the Source and Destination termination assignment per cable)	Click or tap here to enter text.
☒	☐	☐	☐	Comm infrastructure that supports any Airport **Special Systems** (Coordinate w/ PM per section 1.1 and 1.3)	Click or tap here to enter text.
☐	☐	☒	☐	Tenant Demarcation package(s)	Click or tap here to enter text.
☐	☐	☒	☐	Comm Room Plans (Include floor, RCP, wall field, and rack/cabinet elevations)	Click or tap here to enter text.
☐	☐	☒	☐	Demolition of infrastructure (Equipment, pathways, and/or cabling)	Click or tap here to enter text.
Additional information (optional):				Click or tap here to enter text.	

SECTION 3: APPLICATION STATUS *(to be completed by Facilities and Infrastructure Communication Engineer)*

3.1: Application compliance checklist:					
YES	NO	N/A	See Notes	Confirm Items:	Completed if "See Notes" box is selected
☐	☐	☐	☐	Eligible for Expedited Review(s)	Click or tap here to enter text.
☐	☐	☐	☐	Design includes termination data	Click or tap here to enter text.
☐	☐	☐	☐	Design includes nomenclature data	Click or tap here to enter text.
☐	☐	☐	☐	COMM Design drawings included	Click or tap here to enter text.

3.2: Application Status:

☐ **Approved** ☐ **Approved as Noted** (see below) ☐ **Revise and Resubmit** ☐ **Rejected**

Notes: Click or tap here to enter text.

Attend Telecom Design Review at:	30%	60%	90%	100%	Other:	1st Application Received at %:	Choose an item.
	☐	☐	☐	☐	☐ Click or tap here to enter text.		

Facilities and Infrastructure Communication Reviewer:

Date: Click or tap to enter a date.

CONCOURSE C POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ESTIMATED LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
C201	C1-P2-42D-2(I)	C2-P2-41D-3	100	95	RETAINED 1-1/2" EMT CONDUIT REUSED	1	4 - #2	#8	60	165	2.2	EP515.00
C202	C1-P2-38D-1(D)	C2-P2-41D-3	100	95	RETAINED 2" EMT CONDUIT REUSED	1	4 - #2	#8	66	120	1.6	EP515.00
C203	C2-P2-28F-1(B)	C2-CB2-27F-1	225	230	2-1/2"	1	4 - #4/0	#4	55	80	1	EP516.00
C204	C2-P2-28F-2(B1)	C2-P2-28F-1(B)	100	95	1-1/4"	1	4 - #2	#8	6	10	0.1	EP516.00
C205	C2-P2-46C-1(V)	C2- P2-45D-2	225	230	2-1/2"	1	4 - #4/0	#4	22	50	0.6	EP515.00
C206	C2-P2-46C-2	C2- P2-45D-2	100	95	1-1/4"	1	4 - #2	#8	25	45	0.6	EP515.00
C207	C2-P2-45B-1	C2-P2-46C-1(V)	50	55	3/4"	1	4 -#6	#10	30	42	0.6	EP515.00
C208	NOT USED											
C209	C2-D2-7C-1	C2-TXY-7C-2	500	510	RETAINED FLEX CONDUIT REUSED	2	4 - 250 kcmil #2		15	25	0.6	EP514.00
C210	C2-P2-9C-1(10C-1)	C2-P2-7C-2A	100	95	1-1/4"	1	4 - #2	#8	72	90	1.2	EP514.00
C211	C2-P2-9C-2(10C-2)	C2-P2-7C-2A	100	95	1-1/4"	1	4 - #2	#8	72	95	1.3	EP514.00
C212	C4-CB2-42E-1	C4-TXY-41/E-1	225	230	2-1/2"	1	4 - #4/0	#4	23	60	0.7	EP518.00
C213	C2-CB2-27F-1	C2-TXY-27F-2	225	230	2-1/2"	1	4 - #4/0	#4	6	15	0.2	EP516.00
C214	C4-P2-42F-2	C4-CB2-42E-1	225	230	2-1/2"	1	4 - #4/0	#4	6	15	0.2	EP516.00
C401	C1-L4-38D-1(E)	C2-L4-41D-1	100	95	RETAINED 2" RGC CONDUIT REUSED	1	4 - #2	#8	50	150	0.5	EP515.00
C402	C1-L4-42D-1(H)	C1-L4-38D-1(E)	70	70	RETAINED 1-1/2" RGC CONDUIT REUSED	1	4 - #4	#8	70	85	0.3	EP515.00
C403	C1-P4-42D-1(P2)	C2-P4-41D-1	225	230	2-1/2"	1	4 - #4/0	#4	70	205	0.6	EP515.00
C404	C2-P4-39C-1	C2-P4-41D-1	100	95	RETAINED 2" RGC CONDUIT REUSED	1	4 - #2	#8	68	90	0.3	EP515.00
C405	NOT USED											
C406	C2-TXY-27F-2	C2-P4-28F	125	130	1-1/2"	1	4 - #1	#6	55	80	0.3	EP516.00
C407	C2-L4-28F-1	C2-L4-18A-1	100	95	RETAINED 2" RGC CONDUIT REUSED	1	4 - #2	#8	140	175	0.6	EP516.00
C408	C2-L4-46C-1	C2-L4-39C-1	100	95	1-1/4"	1	4 - #2	#8	190	215	1.3	EP515.00
C409	C2-TXY-45D-1	C2-L4-46C-1	50	40	3/4"	1	3 - #8	#10	40	55	0	EP515.00
C410	C2-L4-9C-1	C2-L4-7C-A	100	95	1-1/4"	1	4 - #2	#8	86	105	0.4	EP514.00
C411	NOT USED											
C412	C4-L4-42F-1(Q)	C2-D4-41D-2	225	230	2-1/2"	1	4 - #4/0	#4	85	200	0.6	EP515.00 & EP518.00
C413	C4-TXY-42E-1 DISC	C4-L4-42F-1(Q)	150	150	1-1/2"	1	4 - #1/0	#6	25	50	0.2	EP518.00

CONCOURSE C COMMUNICATIONS FEEDER SCHEDULE

FEEDER #	TO (METER)	TO (ELEC PANEL)	TO (ELEC ROOM)	FROM	FROM (ROOM)	CONDUIT SIZE	CONDUCTOR	ESTIMATED LENGTH IN FEET - ENGINEER	ACTUAL LENGTH - CONTRACTOR	ONE LINE SHEET #
CC001	C2-MTR-R4-9C-1	C2-L4-9C-1	C-3021-R	H-CJB-CC03.01	C-3021-R	3/4"	1 CAT 6	10'		EC514.00
CC002	C2-MTR-R2-9C-1	C2-P2-9C-1(10C-1)	C-3021-R	H-CJB-CC03.01	C-3021-R	3/4"	1 CAT 6	10'		EC514.00
CC003	C2-MTR-R2-9C-2	C2-P2-9C-2(10C-2)	C-3021-R	H-CJB-CC03.01	C-3021-R	3/4"	1 CAT 6	10'		EC514.00
CC004	H-CJB-CC03.01	N/A	C-3021-R	H-CJB-CC03.02	C-3008-R	1"	3 CAT 6	10'		EC514.00
CC005	C2-MTR-R2-7C-1	C2-D2-7C-1	C-3008-R	H-CJB-CC03.02	C-3008-R	3/4"	1 CAT 6	20'		EC514.00
CC006	H-CJB-CC03.02	N/A	C-3008-R	TBD	ER.CC03.1	1"	4 CAT 6	100'		EC514.00
CC007	NOT USED									
CC008	NOT USED									
CC009	C1-MTR-R4-38D-2	C1-E4-38D-1(X3)	C-1150-TR	H-CJB-CC01.01	C-1150-TR	3/4"	1 CAT 6	10'		EC516.00
CC010	C2-MTR-R4-28F-1	C2-L4-28F-1	C-3090-R	H-CJB-CC03.03	C-3090-R	3/4"	1 CAT 6	10'		EC515.00
CC011	C2-MTR-R2-28F-1	C2-P2-28F-1	C-3090-R	H-CJB-CC03.03	C-3090-R	3/4"	1 CAT 6	20'		EC515.00
CC012	C2-MTR-R2-28F-2	C2-P2-28F-2	C-3090-R	H-CJB-CC03.03	C-3090-R	3/4"	1 CAT 6	20'		EC515.00
CC013	H-CJB-CC03.03	N/A	C-3090-R	TBD	ER.CC03.2	1"	3 CAT 6	100'		EC515.00
CC014	C1-MTR-R4-38D-1	C1-L4-38D-1	C-1150-TR	H-CJB-CC01.01	C-1150-TR	3/4"	1 CAT 6	10'		EC516.00
CC015	C1-MTR-R2-38D-1	C1-P2-38D-1(D)	C-1150-TR	H-CJB-CC01.01	C-1150-TR	3/4"	1 CAT 6	10'		EC516.00
CC016	H-CJB-CC01.01	N/A	C-1150-TR	TBD	ER.CC03.3	3/4"	3 CAT 6	100'		EC516.00
CC017	C1-MTR-R4-42D-1	C1-P4-41C-2	C-1158-TR	H-CJB-CC01.02	C-1158-TR	3/4"	1 CAT 6	10'		EC516.00
CC018	C1-MTR-R4-42D-2	C1-L4-41D-1	C-1158-TR	H-CJB-CC01.02	C-1158-TR	3/4"	1 CAT 6	10'		EC516.00
CC019	C1-MTR-R2-42D-1	C1-P2-42D-2(I)	C-1158-TR	H-CJB-CC01.02	C-1158-TR	3/4"	1 CAT 6	10'		EC516.00
CC020	H-CJB-CC01.02	N/A	C-1158-TR	TBD	ER.CC03.3	1"	3 CAT 6	50'		EC516.00
CC021	C4-MTR-R4-42F-1	C4-L4-42F-1	C-6146-M	H-CJB-CC06.01	C-6145-M	3/4"	1 CAT 6	10'		EC517.00
CC022	C4-MTR-R2-42F-2	C4-P2-42F-2	C-6146-M	H-CJB-CC06.01	C-6145-M	3/4"	1 CAT 6	10'		EC517.00
CC023	H-CJB-CC06.01	N/A	C-6146-M	TBD	ER.CC06.1	3/4"	2 CAT 6	25'		EC517.00
CC024	C2-MTR-R4-46C-1	C2-L4-46C-1	C-3166E-R	H-CJB-CC03.04	C-3166E-R	3/4"	1 CAT 6	10'		EC516.00
CC025	C2-MTR-R2-46C-1	C2-P2-46C-1	C-3166E-R	H-CJB-CC03.04	C-3166E-R	3/4"	1 CAT 6	10'		EC516.00
CC026	C2-MTR-R2-46C-1	C2-P2-46C-2	C-3166E-R	H-CJB-CC03.04	C-3166E-R	3/4"	1 CAT 6	10'		EC516.00
CC027	H-CJB-CC03.04	N/A	C-3166E-R	TBD	C-3166-R	3/4"	2 CAT 6	105'		EC516.00
CC028	C2-MTR-R4-39C-1	C2-P4-39C-1	C-3156-R	TBD	ER.CC03.3	3/4"	1 CAT 6	140'		EC516.00

GENERAL NOTES

1. POWER CONDUITS 2" AND LARGER SHALL BE GRS.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C.CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE, STATE OF WASHINGTON, 35276, REGISTERED PROFESSIONAL ENGINEER, 06/26/2024

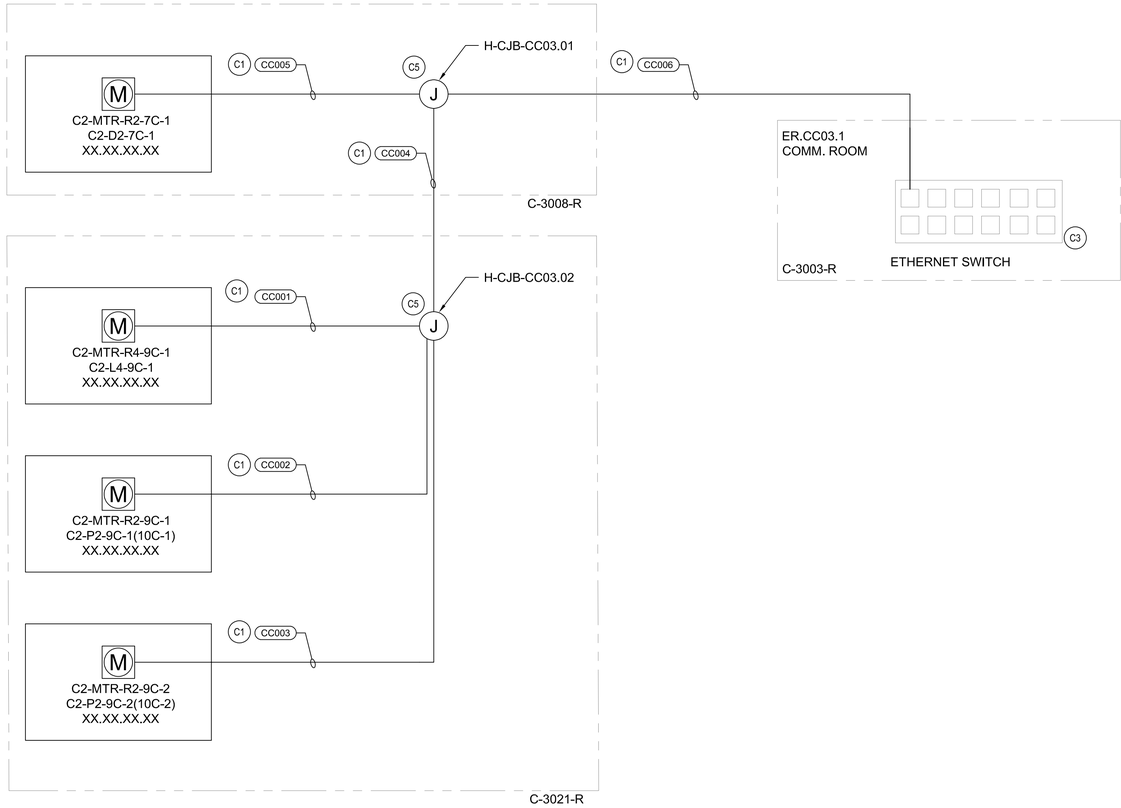
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL	
2	01/31/2024	RJ	60% SUBMITTAL	
3	06/26/2024	RJ	ISSUE FOR PERMIT	

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: FEEDER SCHEDULES - CONCOURSE C

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 E010.01



RAMP LEVEL

DETAIL 1

METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

EC514.00

LEGEND

REFERENCE DRAWINGS

1. STIA2412E400 SERIES- NETWORK/METERING DETAILS.
2. STIA2412E010.01 - CONDUIT FEEDER SCHEDULE - COMMUNICATION.

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

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(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

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BELLEVUE, WA 98006
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DATE: 06/26/2024
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CURTIS E. CLUTE
STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER

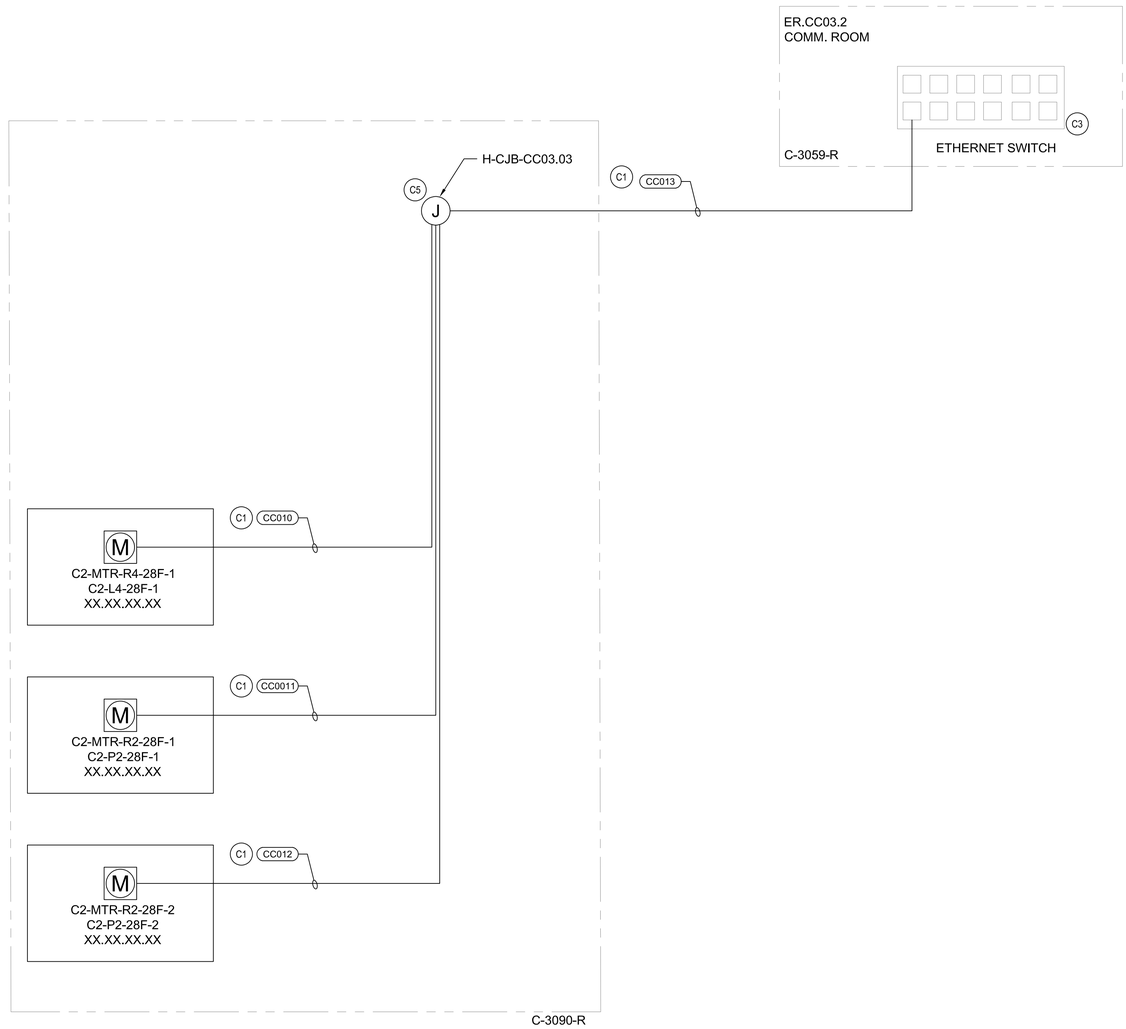
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POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC514.00



RAMP LEVEL

DETAIL

METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

1
EC515.00

LEGEND

REFERENCE DRAWINGS

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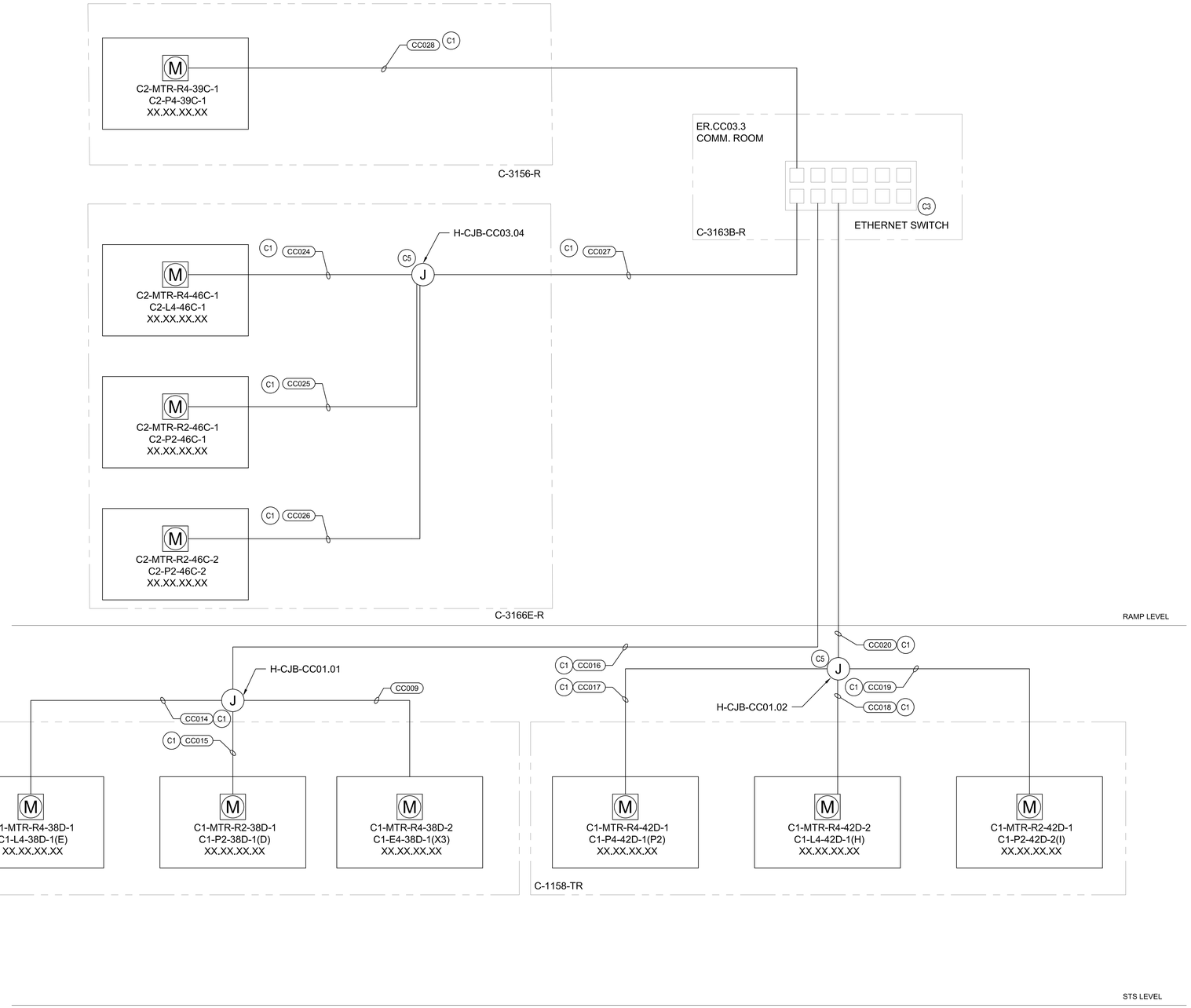
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC515.00



DETAIL

METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

1
EC516.00

LEGEND

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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

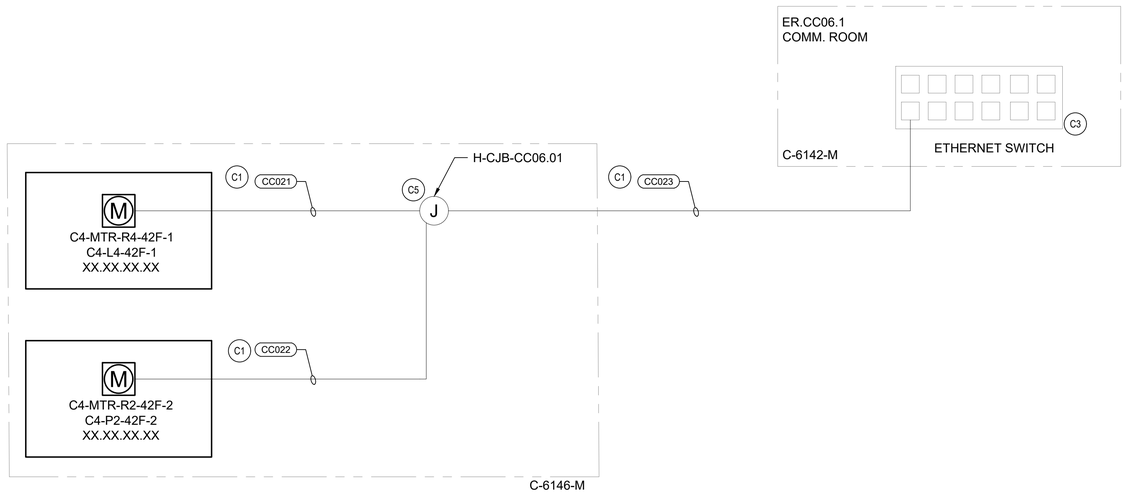
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC516.00



LEGEND

REFERENCE DRAWINGS

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2. STIA2412E010.01 - CONDUIT FEEDER SCHEDULE - COMMUNICATION.

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4TH FLOOR

DETAIL 1/EC517.00
METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

CALL 2 DAYS
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1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
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CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

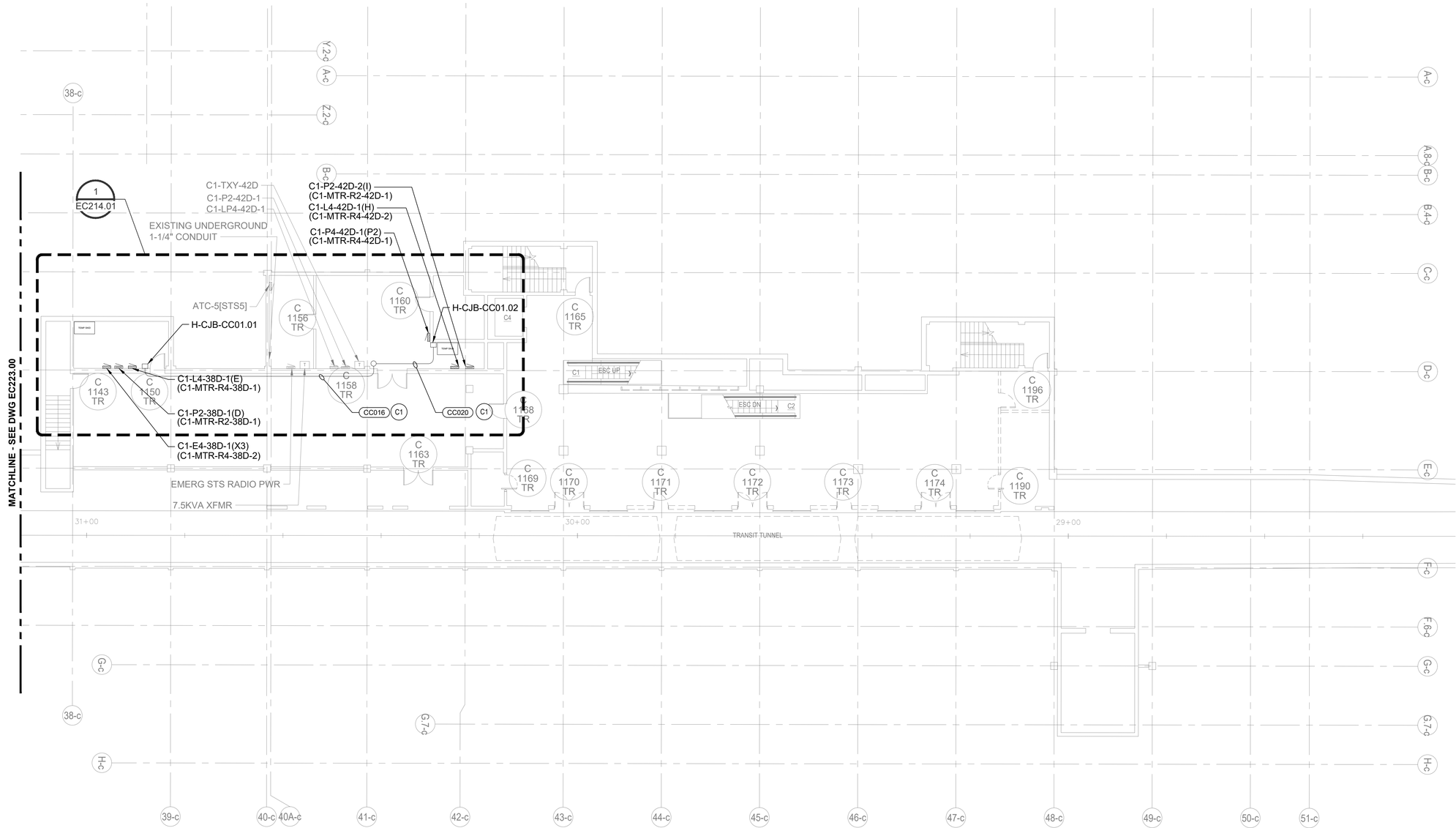
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC517.00



LEGEND

GENERAL NOTES

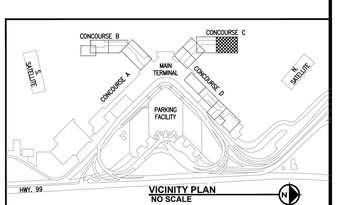
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PLAN

COMMUNICATION PLAN
STS LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale: 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
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REVISIONS

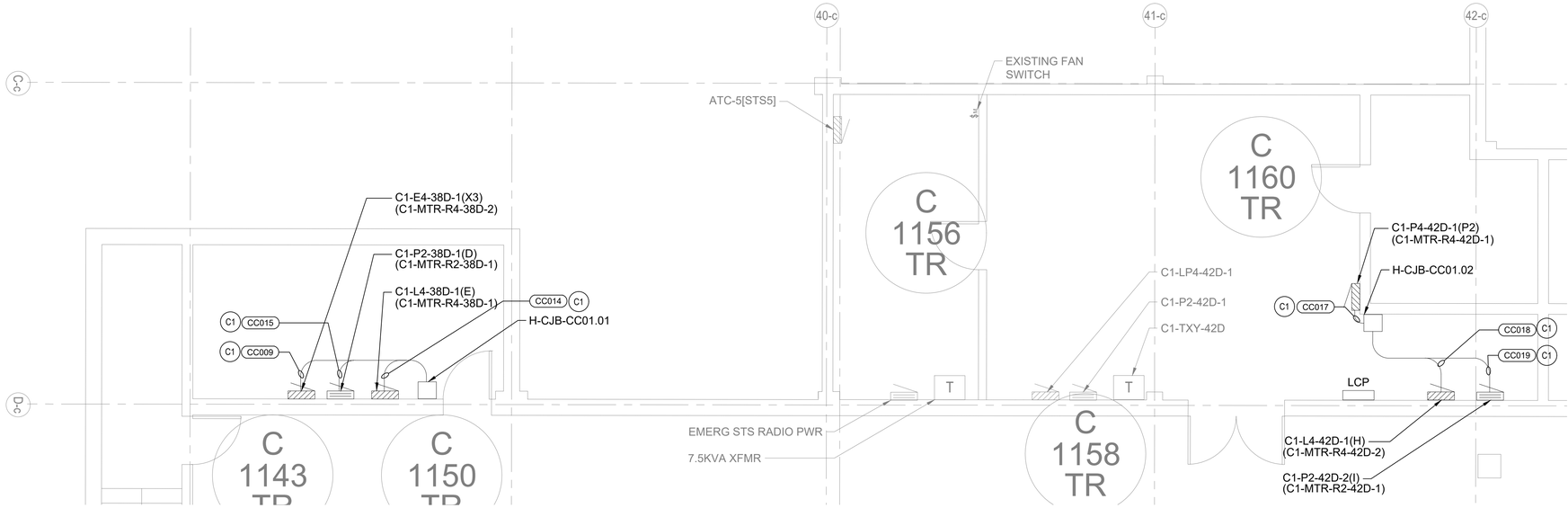
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - STS LEVEL - SECTOR 214

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC214.00



ENLARGED PLAN

1
EP214.00

COMMUNICATIONS PLAN
STS LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTES

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1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

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DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

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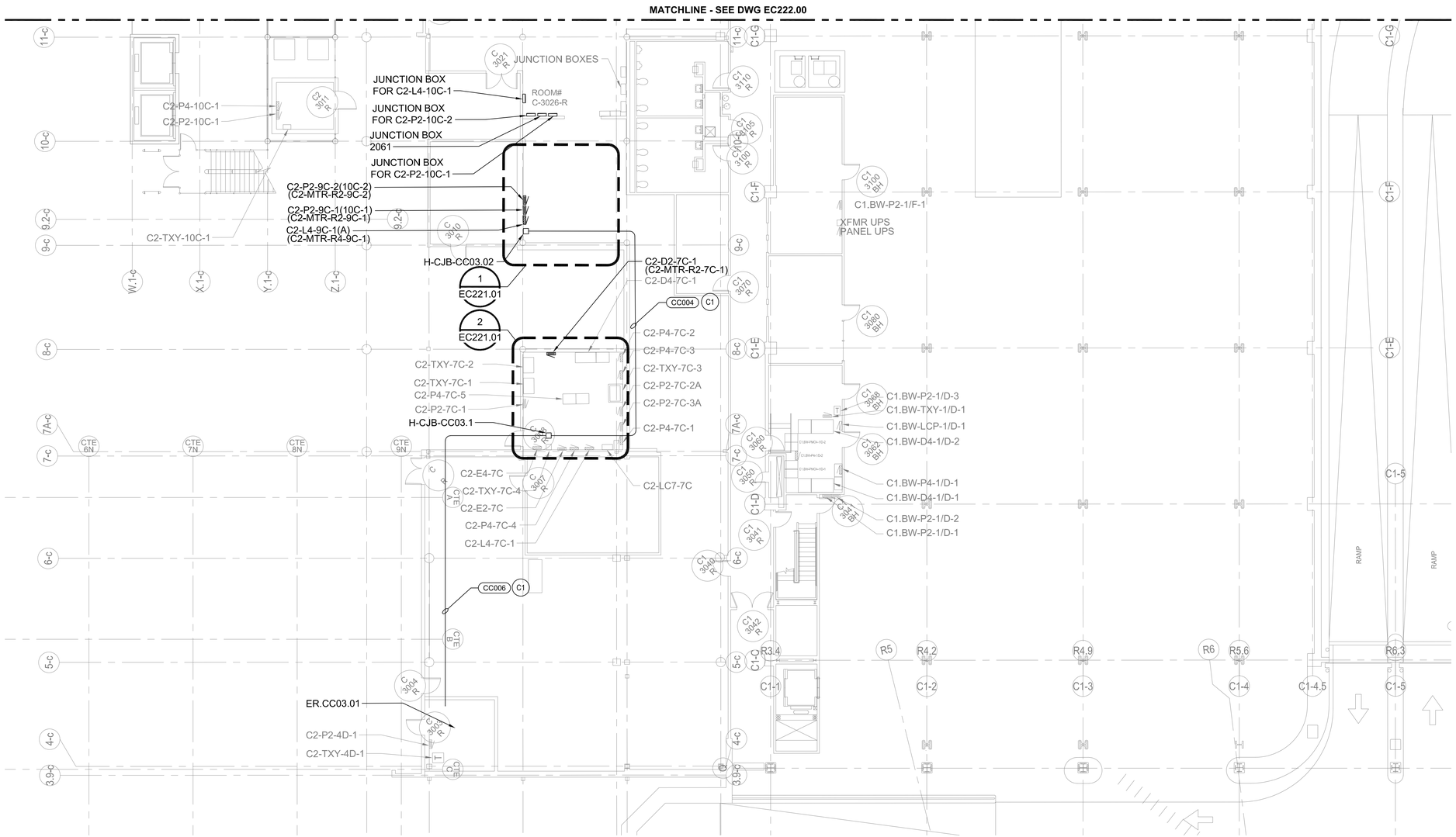
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - STS LEVEL - SECTOR 214

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC214.01



LEGEND

GENERAL NOTES

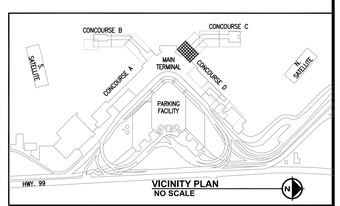
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KEYED NOTES

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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



VICINITY PLAN
NO SCALE

3/32"=1'-0"
5 0 5 10 15 20 25 30
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH, M. NAMAZI
DRAWN BY:	C. ALLSION
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

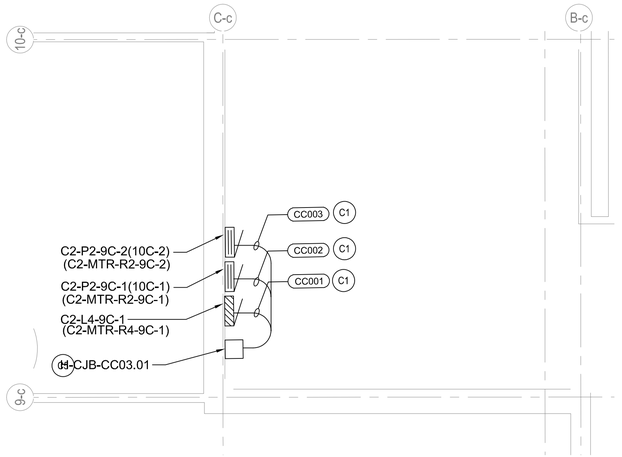
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
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2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 221

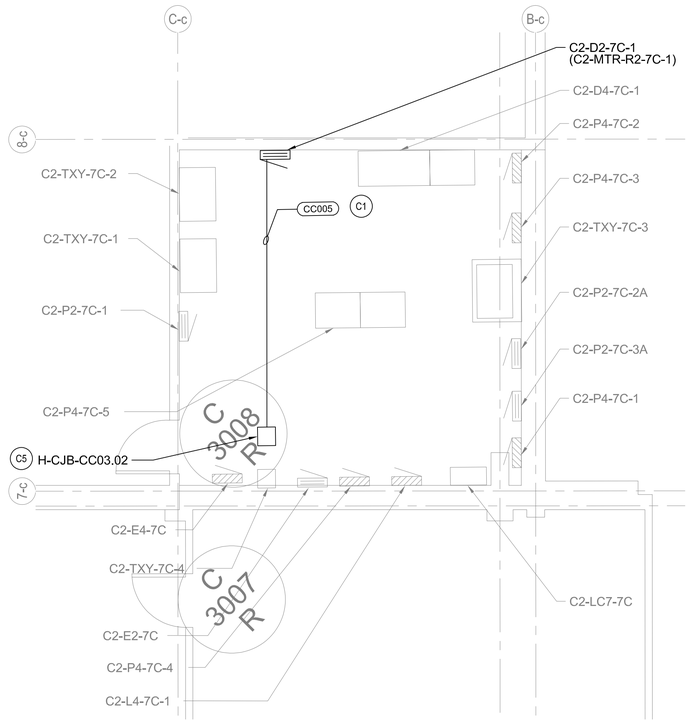
POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC221.00



ENLARGED PLAN 1

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

EC221.00



ENLARGED PLAN 2

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

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1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

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DRAWN BY: C. ALLISON
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

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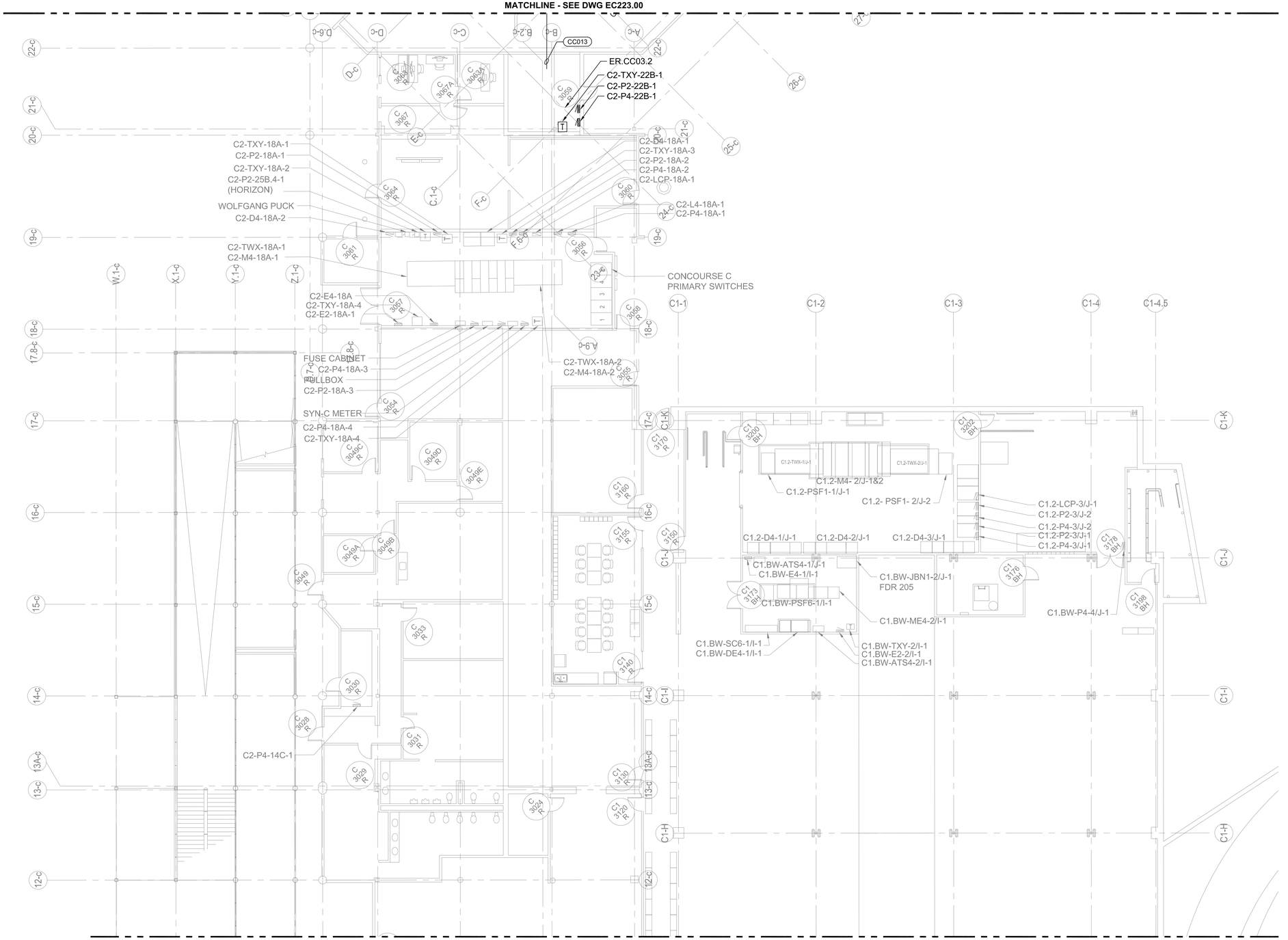
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 221

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC221.01

MATCHLINE - SEE DWG EC223.00

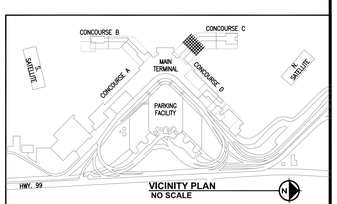


MATCHLINE - SEE DWG EC221.00

PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"

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LEGEND

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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 222

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC222.00

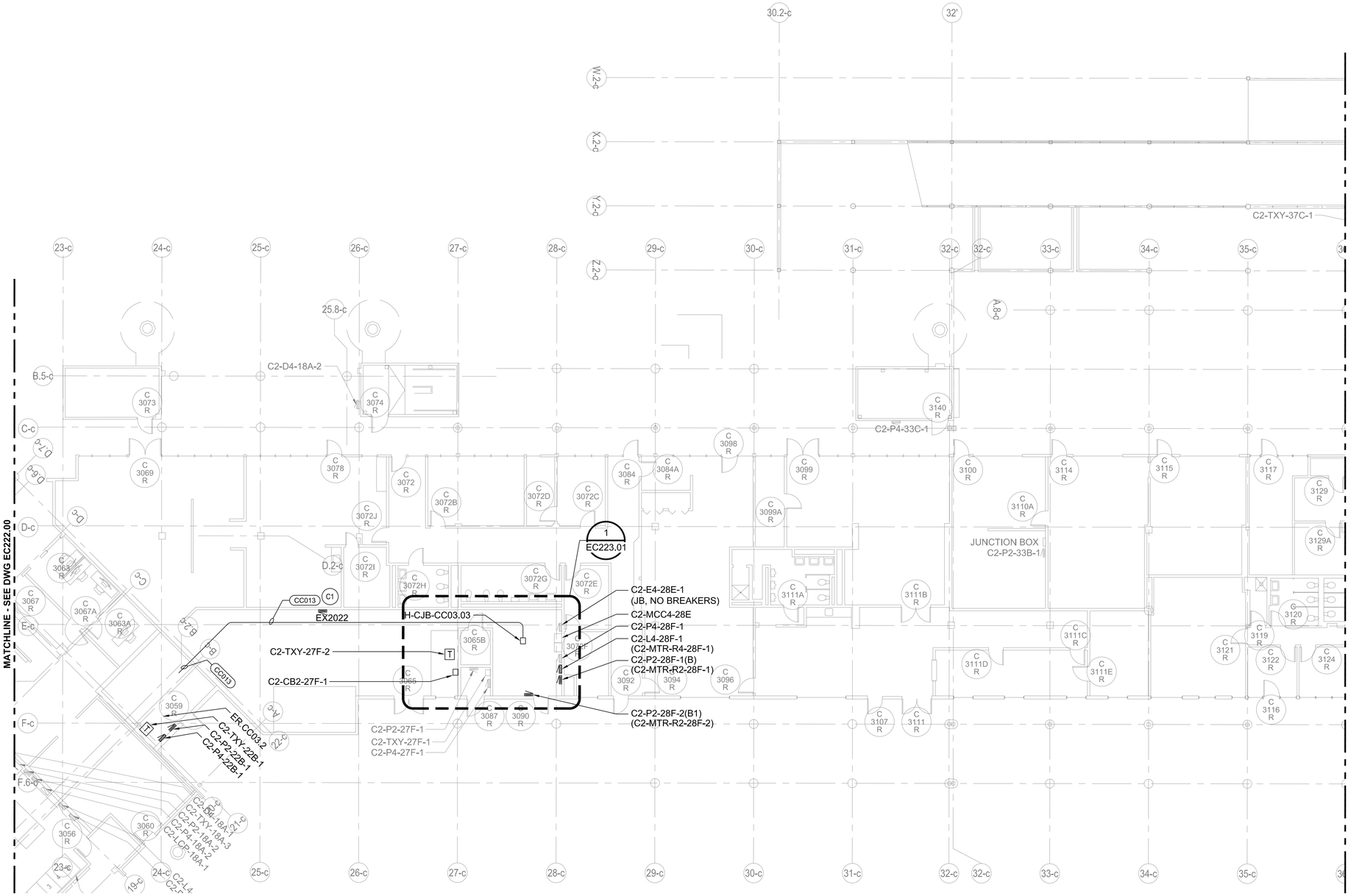
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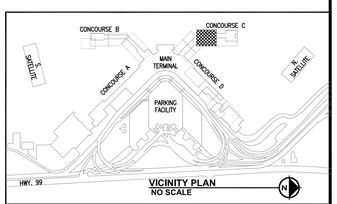
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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



VICINITY PLAN
NO SCALE

3/32"=1'-0" Scale: 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
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BELLEVUE, WA 98006
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

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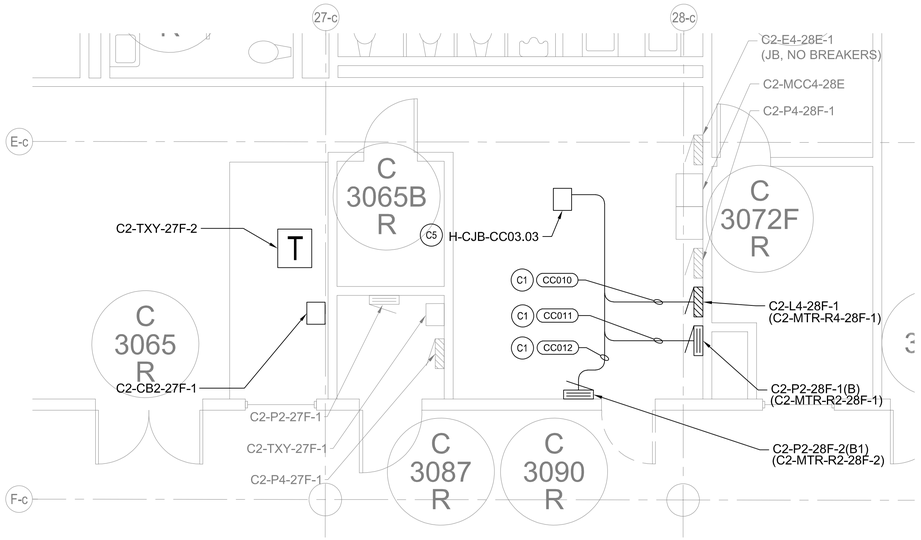
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POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 223

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER:	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC223.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

1
EC223.00

LEGEND

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1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

ECASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
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CURTIS E. CLUTE
STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

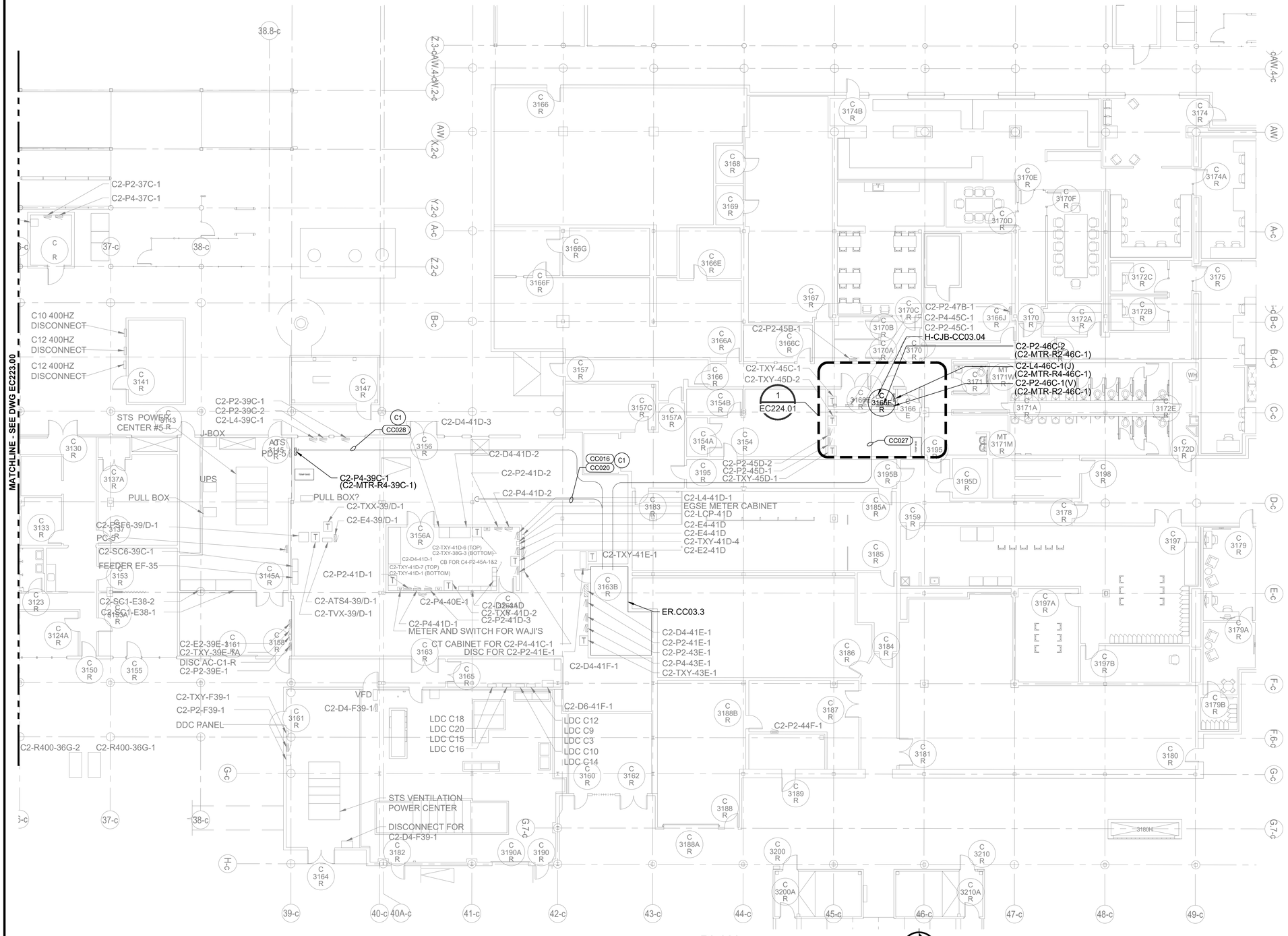
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 223

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC223.01



LEGEND

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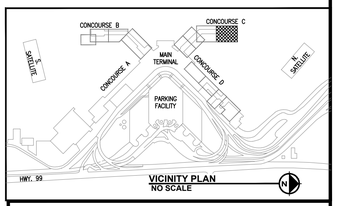
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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"

3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet



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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

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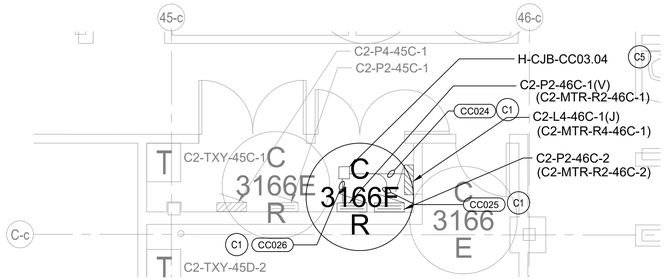
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POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
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POS CHECKED/APPROVED BY:	

Port of Seattle — SEA-TAC INTERNATIONAL AIRPORT

PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 224

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER:	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC224.00



ENLARGED PLAN — 1 / EC224.00

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

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PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

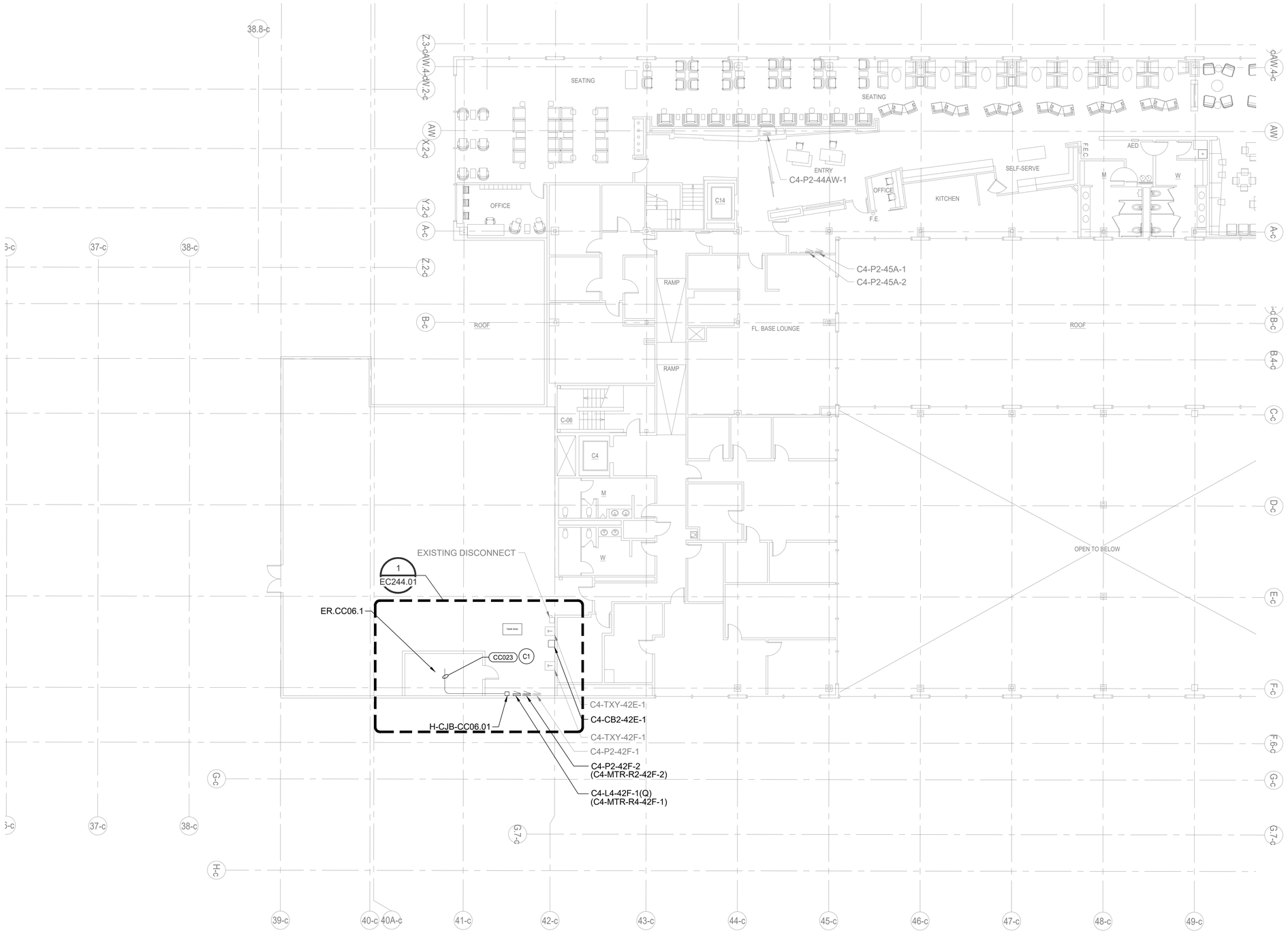
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POS DRAFTER:
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Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 224

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC224.01



LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

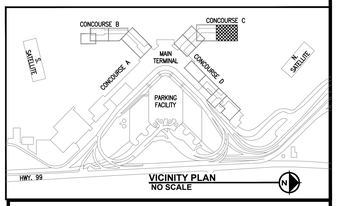
(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

PLAN

COMMUNICATION PLAN
MEZZANINE LEVEL
SCALE: 3/32" = 1'-0"

N

3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

ECASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE STATE OF WASHINGTON 35276 REGISTERED PROFESSIONAL ENGINEER

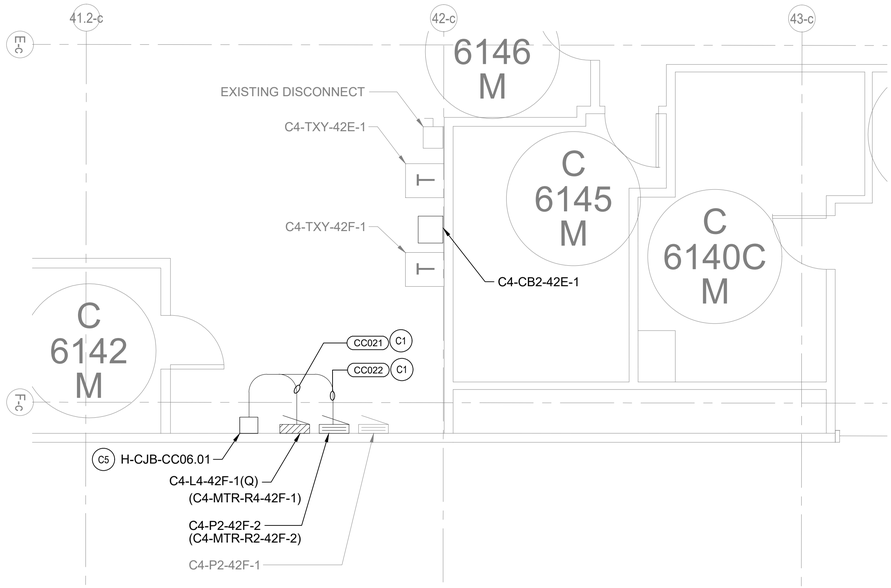
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - MEZZANINE LEVEL - SECTOR 244

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC244.00



ENLARGED PLAN — 1 / EC244.00

COMMUNICATION PLAN
MEZZANINE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTES

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KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

1/4"=1'-0" Scale — 2 0 2 4 6 8 10 Feet

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - MEZZANINE LEVEL - SECTOR 244

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC244.01

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

Send Completed Applications to:	**AVCommittees@portseattle.org**	Received by F&I:	Click or tap to enter a date.

SECTION 1 *(to be completed by POS Project Manager)*

1.1: Acknowledgement:

☒	I have completed an Application for Connection for connection to COMMUNICATION INFRASTRUCTURE	☒	I am using the current Application version [For your convenience, below link is to all applications and instructions] (Applications for Utilities Connections | Port of Seattle (portseattle.org)
☐	This Special System(s) connects to EXISTING Comm Infrastructure and an Application for Connection to COMMUNICATION INFRASTRUCTURE does not apply	☒	I have reviewed the Application for Connection to Special Systems Instructions (Periodically check for updated information and support)

1.2 Project Coding:

Submittal Date:	CIP #:	Project ID:	Activity:	Phase:
6/26/2024	Click or tap here to enter text.	**U00504**	**Concourse Low Voltage System Upgrade**	**90%**

1.3: Project includes Special Systems Hardware and/or Applications involving (check all that apply):

NOTE: For further details of below list, including vendors and system owners, please reference: Special Systems Matrix_2023.xlsx (sharepoint.com)

☐	800 MHz Radio	☐	Access Control System (ACS)	☐	Airport Breach/Duress System
☐	Bag Carousel Information Displays	☐	Baggage Keypad System	☐	BioMetric Air Exit System
☐	Border Entry (APC) System	☐	**Cable Television** (complete Section 1.5)	☐	Cellular Distributed Antenna System
☐	Carbon Monoxide Monitoring System	☐	Common Use Terminal Equip. (CUTE)	☐	Common Use Self-Service (CUSS)
☐	Electric Ground Support Equip. (EGSE)	☐	Fire Alarm System (FAS)	☐	Flight Information Displays (FIDS)
☐	GPS Fleet Tracking -Rental Car Bus Wait Time	☐	Intercom Systems	☐	Intelligent Transportation System (ITS) Roadway Digital Signage
☐	Parking Revenue Control System	☐	Passenger Flow System	–	*Future System (placeholder)*
☐	Perimeter Intrusion Detection Sys. (PIDS)	☐	POS/SEA Digital Displays	☒	Power Monitoring System (EMS)
☐	**Radio Frequency -Inc. FCC Licensed Systems** (complete Section 1.6)	☐	Surface Area Mgmt. System (SAMS)	☐	Satellite Transit System Communications Display
☐	Supervisory Control and Data Acquisition (SCADA)	☐	Terminal Wide Voice Paging (TWVPS)	–	*Future System (placeholder)*
☐	Time to Train System (STS Train Display)	☐	Vendor Electronic Displays	☐	Video Management System (VMS)
☐	Visual Docking Guidance Sys. (Safe Dock)	☐	Smart Bathroom (1 year Pilot)	–	*Future System (placeholder)*
☐	SYSTEM(s) - OTHER or NEW (Or additional notes opportunity)	Click or tap here to enter text.			

1.4: Project Contacts:

Group:	Company:	Representative:	Phone:	Email:
SEA PM:	Port of Seattle	Christina Burdett	(206) 518-4439	burdett.c@portseattle.org
Design Firm:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Systems Design Engineer:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Tenant Rep.:	N/A	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

1.5: Cable Television Service Details: (if not applicable, skip to section 1.6)

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

Project Name or Tenant Space ID:	Click or tap here to enter text.	Demarcation Panel ID:	Click or tap here to enter text.

Total number of displays:	#?	*Demarcation to display horizontal coax is:*	Home run to each display ☒	RG-6 or greater ☒ Installed by owner ☒

Television Owner/ Tenant Operator	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Any additional contacts to note? (Not listed in section 1.4) Include Project Role, Company, Rep., Phone, and Email per contact:

Click or tap here to enter text.

1.6: Radio Frequency Systems- Including systems requiring FCC License: (if not applicable, skip to Section 2)

RF Service Type:	☐	Cellular	☐	Data	☐	VHF	☐	UHF	☐	Wi-Fi	☐	Broadcast TV antenna	☐	Other (add notes below)
	RF Service Notes:	Click or tap here to enter text.												

NOTE: Wi-Fi Systems for SEA Tenant shall be installed to keep strongest signal within leased footprint. Do NOT use SEA Airport reserved channels of 1, 6, and 11

Wi-Fi MAC address:	Click or tap here to enter text.	Radio type (802.11a, b, or g):	Click or tap here to enter text.

Antenna Install Date Tracking:	Proposed START:	Click or tap to enter a date.	Proposed Completion:	Click or tap to enter a date.	Proposed Cut-over (if req.):	Click or tap to enter a date.

Antenna Location(s) Tracking:	Amt:	Longitude:	Latitude:	Height:	Frequency Range:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Antenna Owner/ Operator	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Complete items below for FCC licensed antenna systems

FCC Applicant	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

FCC Approval Date (per Frequency):	Click or tap here to enter text.
Approval End Date (per Frequency):	Click or tap here to enter text.

Frequency Range:	Click or tap here to enter text.	Output Power:	Click or tap here to enter text.

FCC License Type	☐	Permanent	☐	Temporary	Copy of FCC License submitted:	☐	Yes	☐	No

Any additional contacts to note? (Not listed in section 1.4) Include Project Role, Company, Rep., Phone, and Email per contact:

Click or tap here to enter text.

SECTION 2 *(to be completed by Communications Design Engineer)*

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

2.1: Acknowledgement:			
☒	I have reviewed the applicable sections of the F&I SEA COMMUNICATION STANDARDS related to this project's communication design. *Periodically check for updated information: Design Standards and Guidelines | Port of Seattle (portseattle.org)	☒	Comm/Special Systems Design Engineer(s) have been coordinating with Architectural, Electrical, Mechanical, and Civil teams for projects where applicable; especially on those that include new/remodeled comm rooms

2.2: Project Design Questionnaire:

YES	NO	N/A	See Notes	Design Engineer has provided design documentation for the following	Complete if "See Notes" box is selected
☒	☐	☐	☐	**SEA Facility CAD Backgrounds** (Include any Outside Plant, building floor, RCP Plans, etc. that detail Special System hardware)	Click or tap here to enter text.
☒	☐	☐	☐	**One-line, System Schematics,** and/or **Riser diagram(s)**	Click or tap here to enter text.
☐	☐	☒	☐	**Elevation Plans** (Including wall field, and rack/cabinet elevations. Provide any details where Special Systems Hardware is to be mounted or installed)	Click or tap here to enter text.
☐	☐	☒	☐	**Radio Frequency Plans** (Including FCC License Submittals and antenna mounting details)	Click or tap here to enter text.
Additional information (optional):				Click or tap here to enter text.	

SECTION 3: APPLICATION STATUS *(to be completed by Facilities and Infrastructure Communication Engineer)*

3.1: Application compliance checklist:

YES	NO	N/A	See Notes	Confirm Items:	Completed if "See Notes" box is selected
☐	☐	☐	☐	Eligible for Expedited Review(s)	Click or tap here to enter text.
☐	☐	☐	☐	Associated *Application for Connection to Comm. Infrastructure* completed	Click or tap here to enter text.
☐	☐	☐	☐	COMM Design drawings included	Click or tap here to enter text.
☐	☐	☐	☐	Includes Utility and/or Licensed Connection (see 1.5 and/or 1.6)	Click or tap here to enter text.

3.2: Application Status:

☐ **Approved** ☐ **Approved as Noted** (see below) ☐ **Revise and Resubmit** ☐ **Rejected**

Notes: Click or tap here to enter text.

Attend Special Systems Design Review at:	30%	60%	90%	100%	Other:	1st Application Received at %:	Choose an item.
	☐	☐	☐	☐	☐ Click or tap here to enter text.		

Facilities and Infrastructure Communication Reviewer:

Date: Click or tap to enter a date.

CONCOURSE C POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ESTIMATED LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
C201	C1-P2-42D-2(I)	C2-P2-41D-3	100	95	RETAINED 1-1/2" EMT CONDUIT REUSED	1	4 - #2	#8	60	165	2.2	EP515.00
C202	C1-P2-38D-1(D)	C2-P2-41D-3	100	95	RETAINED 2" EMT CONDUIT REUSED	1	4 - #2	#8	66	120	1.6	EP515.00
C203	C2-P2-28F-1(B)	C2-CB2-27F-1	225	230	2-1/2"	1	4 - #4/0	#4	55	80	1	EP516.00
C204	C2-P2-28F-2(B1)	C2-P2-28F-1(B)	100	95	1-1/4"	1	4 - #2	#8	6	10	0.1	EP516.00
C205	C2-P2-46C-1(V)	C2- P2-45D-2	225	230	2-1/2"	1	4 - #4/0	#4	22	50	0.6	EP515.00
C206	C2-P2-46C-2	C2- P2-45D-2	100	95	1-1/4"	1	4 - #2	#8	25	45	0.6	EP515.00
C207	C2-P2-45B-1	C2-P2-46C-1(V)	50	55	3/4"	1	4 -#6	#10	30	42	0.6	EP515.00
C208	NOT USED											
C209	C2-D2-7C-1	C2-TXY-7C-2	500	510	RETAINED FLEX CONDUIT REUSED	2	4 - 250 kcmil #2		15	25	0.6	EP514.00
C210	C2-P2-9C-1(10C-1)	C2-P2-7C-2A	100	95	1-1/4"	1	4 - #2	#8	72	90	1.2	EP514.00
C211	C2-P2-9C-2(10C-2)	C2-P2-7C-2A	100	95	1-1/4"	1	4 - #2	#8	72	95	1.3	EP514.00
C212	C4-CB2-42E-1	C4-TXY-41/E-1	225	230	2-1/2"	1	4 - #4/0	#4	23	60	0.7	EP518.00
C213	C2-CB2-27F-1	C2-TXY-27F-2	225	230	2-1/2"	1	4 - #4/0	#4	6	15	0.2	EP516.00
C214	C4-P2-42F-2	C4-CB2-42E-1	225	230	2-1/2"	1	4 - #4/0	#4	6	15	0.2	EP516.00
C401	C1-L4-38D-1(E)	C2-L4-41D-1	100	95	RETAINED 2" RGC CONDUIT REUSED	1	4 - #2	#8	50	150	0.5	EP515.00
C402	C1-L4-42D-1(H)	C1-L4-38D-1(E)	70	70	RETAINED 1-1/2" RGC CONDUIT REUSED	1	4 - #4	#8	70	85	0.3	EP515.00
C403	C1-P4-42D-1(P2)	C2-P4-41D-1	225	230	2-1/2"	1	4 - #4/0	#4	70	205	0.6	EP515.00
C404	C2-P4-39C-1	C2-P4-41D-1	100	95	RETAINED 2" RGC CONDUIT REUSED	1	4 - #2	#8	68	90	0.3	EP515.00
C405	NOT USED											
C406	C2-TXY-27F-2	C2-P4-28F	125	130	1-1/2"	1	4 - #1	#6	55	80	0.3	EP516.00
C407	C2-L4-28F-1	C2-L4-18A-1	100	95	RETAINED 2" RGC CONDUIT REUSED	1	4 - #2	#8	140	175	0.6	EP516.00
C408	C2-L4-46C-1	C2-L4-39C-1	100	95	1-1/4"	1	4 - #2	#8	190	215	1.3	EP515.00
C409	C2-TXY-45D-1	C2-L4-46C-1	50	40	3/4"	1	3 - #8	#10	40	55	0	EP515.00
C410	C2-L4-9C-1	C2-L4-7C-A	100	95	1-1/4"	1	4 - #2	#8	86	105	0.4	EP514.00
C411	NOT USED											
C412	C4-L4-42F-1(Q)	C2-D4-41D-2	225	230	2-1/2"	1	4 - #4/0	#4	85	200	0.6	EP515.00 & EP518.00
C413	C4-TXY-42E-1 DISC	C4-L4-42F-1(Q)	150	150	1-1/2"	1	4 - #1/0	#6	25	50	0.2	EP518.00

CONCOURSE C COMMUNICATIONS FEEDER SCHEDULE

FEEDER #	TO (METER)	TO (ELEC PANEL)	TO (ELEC ROOM)	FROM	FROM (ROOM)	CONDUIT SIZE	CONDUCTOR	ESTIMATED LENGTH IN FEET - ENGINEER	ACTUAL LENGTH - CONTRACTOR	ONE LINE SHEET #
CC001	C2-MTR-R4-9C-1	C2-L4-9C-1	C-3021-R	H-CJB-CC03.01	C-3021-R	3/4"	1 CAT 6	10'		EC514.00
CC002	C2-MTR-R2-9C-1	C2-P2-9C-1(10C-1)	C-3021-R	H-CJB-CC03.01	C-3021-R	3/4"	1 CAT 6	10'		EC514.00
CC003	C2-MTR-R2-9C-2	C2-P2-9C-2(10C-2)	C-3021-R	H-CJB-CC03.01	C-3021-R	3/4"	1 CAT 6	10'		EC514.00
CC004	H-CJB-CC03.01	N/A	C-3021-R	H-CJB-CC03.02	C-3008-R	1"	3 CAT 6	10'		EC514.00
CC005	C2-MTR-R2-7C-1	C2-D2-7C-1	C-3008-R	H-CJB-CC03.02	C-3008-R	3/4"	1 CAT 6	20'		EC514.00
CC006	H-CJB-CC03.02	N/A	C-3008-R	TBD	ER.CC03.1	1"	4 CAT 6	100'		EC514.00
CC007	NOT USED									
CC008	NOT USED									
CC009	C1-MTR-R4-38D-2	C1-E4-38D-1(X3)	C-1150-TR	H-CJB-CC01.01	C-1150-TR	3/4"	1 CAT 6	10'		EC516.00
CC010	C2-MTR-R4-28F-1	C2-L4-28F-1	C-3090-R	H-CJB-CC03.03	C-3090-R	3/4"	1 CAT 6	10'		EC515.00
CC011	C2-MTR-R2-28F-1	C2-P2-28F-1	C-3090-R	H-CJB-CC03.03	C-3090-R	3/4"	1 CAT 6	20'		EC515.00
CC012	C2-MTR-R2-28F-2	C2-P2-28F-2	C-3090-R	H-CJB-CC03.03	C-3090-R	3/4"	1 CAT 6	20'		EC515.00
CC013	H-CJB-CC03.03	N/A	C-3090-R	TBD	ER.CC03.2	1"	3 CAT 6	100'		EC515.00
CC014	C1-MTR-R4-38D-1	C1-L4-38D-1	C-1150-TR	H-CJB-CC01.01	C-1150-TR	3/4"	1 CAT 6	10'		EC516.00
CC015	C1-MTR-R2-38D-1	C1-P2-38D-1(D)	C-1150-TR	H-CJB-CC01.01	C-1150-TR	3/4"	1 CAT 6	10'		EC516.00
CC016	H-CJB-CC01.01	N/A	C-1150-TR	TBD	ER.CC03.3	3/4"	3 CAT 6	100'		EC516.00
CC017	C1-MTR-R4-42D-1	C1-P4-41C-2	C-1158-TR	H-CJB-CC01.02	C-1158-TR	3/4"	1 CAT 6	10'		EC516.00
CC018	C1-MTR-R4-42D-2	C1-L4-41D-1	C-1158-TR	H-CJB-CC01.02	C-1158-TR	3/4"	1 CAT 6	10'		EC516.00
CC019	C1-MTR-R2-42D-1	C1-P2-42D-2(I)	C-1158-TR	H-CJB-CC01.02	C-1158-TR	3/4"	1 CAT 6	10'		EC516.00
CC020	H-CJB-CC01.02	N/A	C-1158-TR	TBD	ER.CC03.3	1"	3 CAT 6	50'		EC516.00
CC021	C4-MTR-R4-42F-1	C4-L4-42F-1	C-6146-M	H-CJB-CC06.01	C-6145-M	3/4"	1 CAT 6	10'		EC517.00
CC022	C4-MTR-R2-42F-2	C4-P2-42F-2	C-6146-M	H-CJB-CC06.01	C-6145-M	3/4"	1 CAT 6	10'		EC517.00
CC023	H-CJB-CC06.01	N/A	C-6146-M	TBD	ER.CC06.1	3/4"	2 CAT 6	25'		EC517.00
CC024	C2-MTR-R4-46C-1	C2-L4-46C-1	C-3166E-R	H-CJB-CC03.04	C-3166E-R	3/4"	1 CAT 6	10'		EC516.00
CC025	C2-MTR-R2-46C-1	C2-P2-46C-1	C-3166E-R	H-CJB-CC03.04	C-3166E-R	3/4"	1 CAT 6	10'		EC516.00
CC026	C2-MTR-R2-46C-1	C2-P2-46C-2	C-3166E-R	H-CJB-CC03.04	C-3166E-R	3/4"	1 CAT 6	10'		EC516.00
CC027	H-CJB-CC03.04	N/A	C-3166E-R	TBD	C-3166-R	3/4"	2 CAT 6	105'		EC516.00
CC028	C2-MTR-R4-39C-1	C2-P4-39C-1	C-3156-R	TBD	ER.CC03.3	3/4"	1 CAT 6	140'		EC516.00

GENERAL NOTES

1. POWER CONDUITS 2" AND LARGER SHALL BE GRS.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C.CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE, STATE OF WASHINGTON, 35276, REGISTERED PROFESSIONAL ENGINEER, 06/26/2024

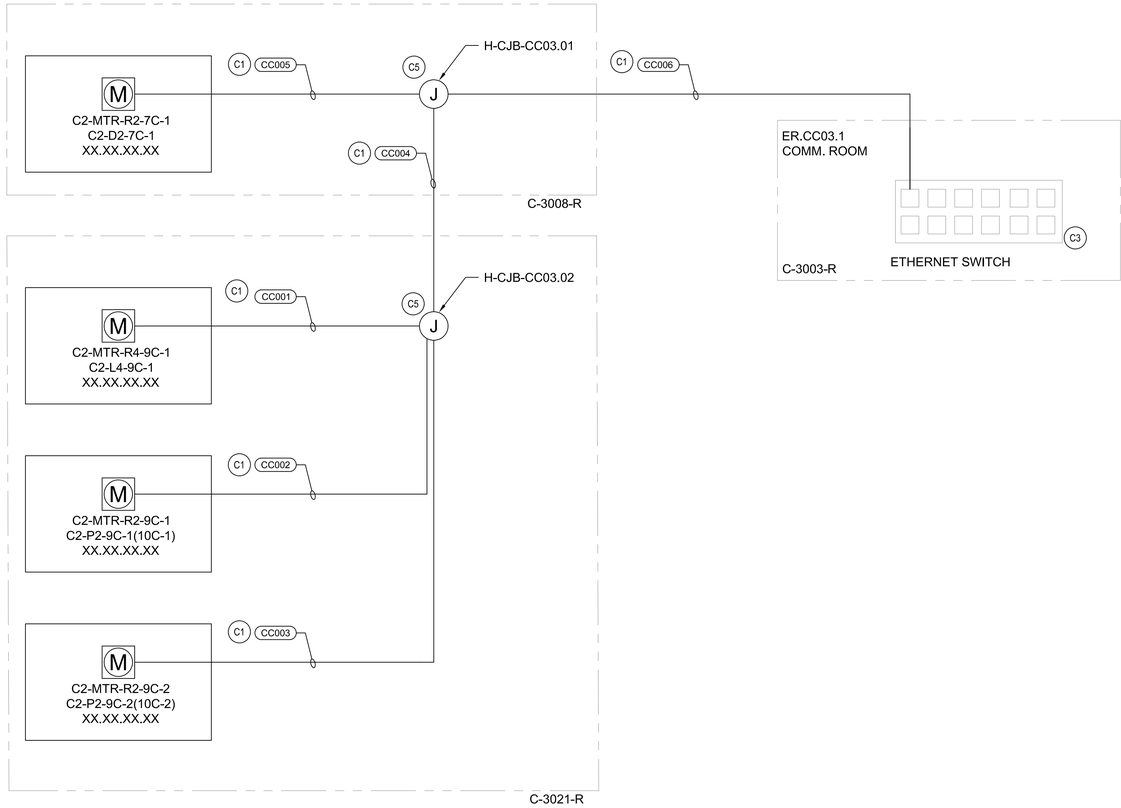
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL	
2	01/31/2024	RJ	60% SUBMITTAL	
3	06/26/2024	RJ	ISSUE FOR PERMIT	

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: FEEDER SCHEDULES - CONCOURSE C

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 E010.01



RAMP LEVEL

DETAIL 1

METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

EC514.00

LEGEND

REFERENCE DRAWINGS

1. STIA2412E400 SERIES- NETWORK/METERING DETAILS.
2. STIA2412E010.01 - CONDUIT FEEDER SCHEDULE - COMMUNICATION.

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
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3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

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(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

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BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
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CURTIS E. CLUTE
STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER

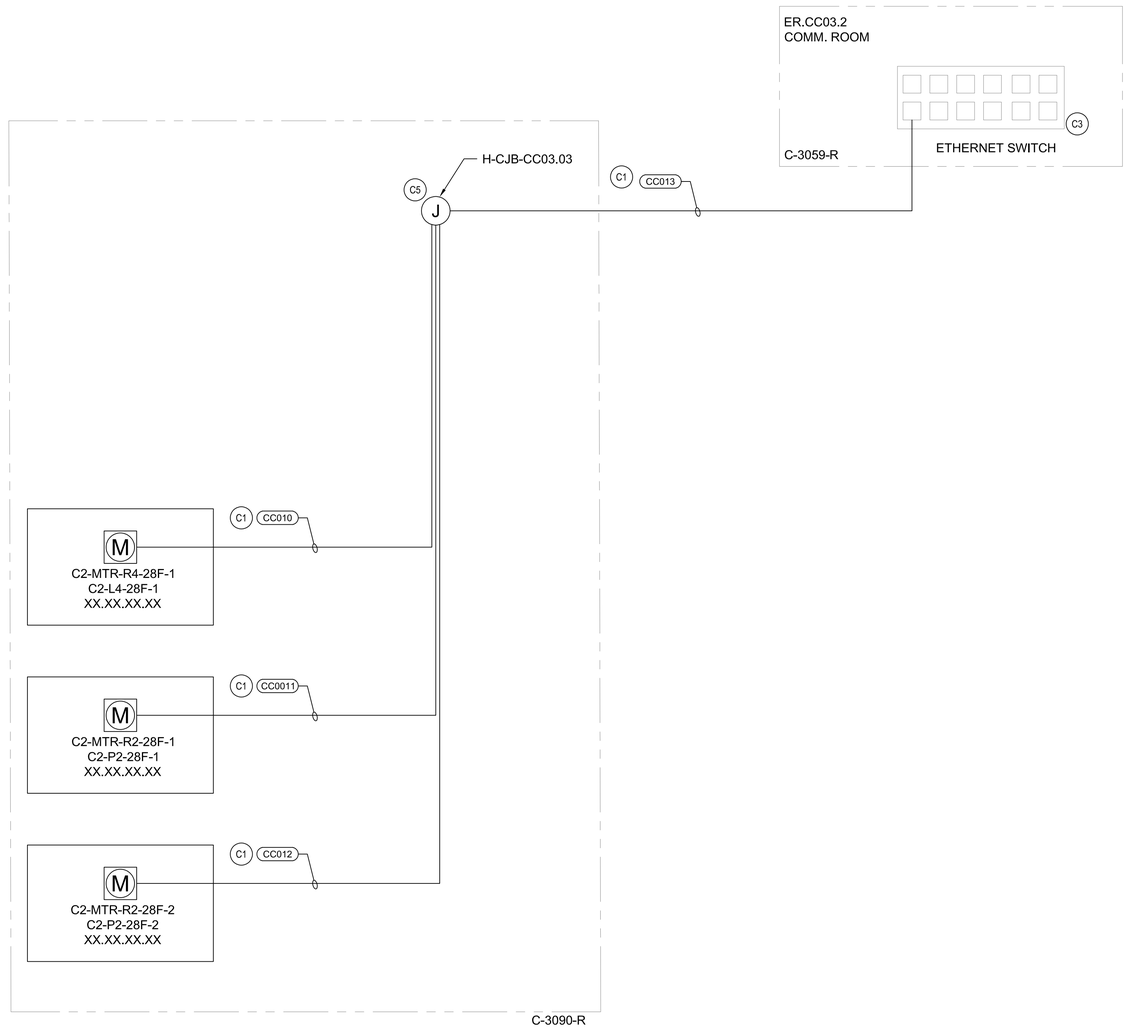
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POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC514.00



RAMP LEVEL

DETAIL

METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

1
EC515.00

LEGEND

REFERENCE DRAWINGS

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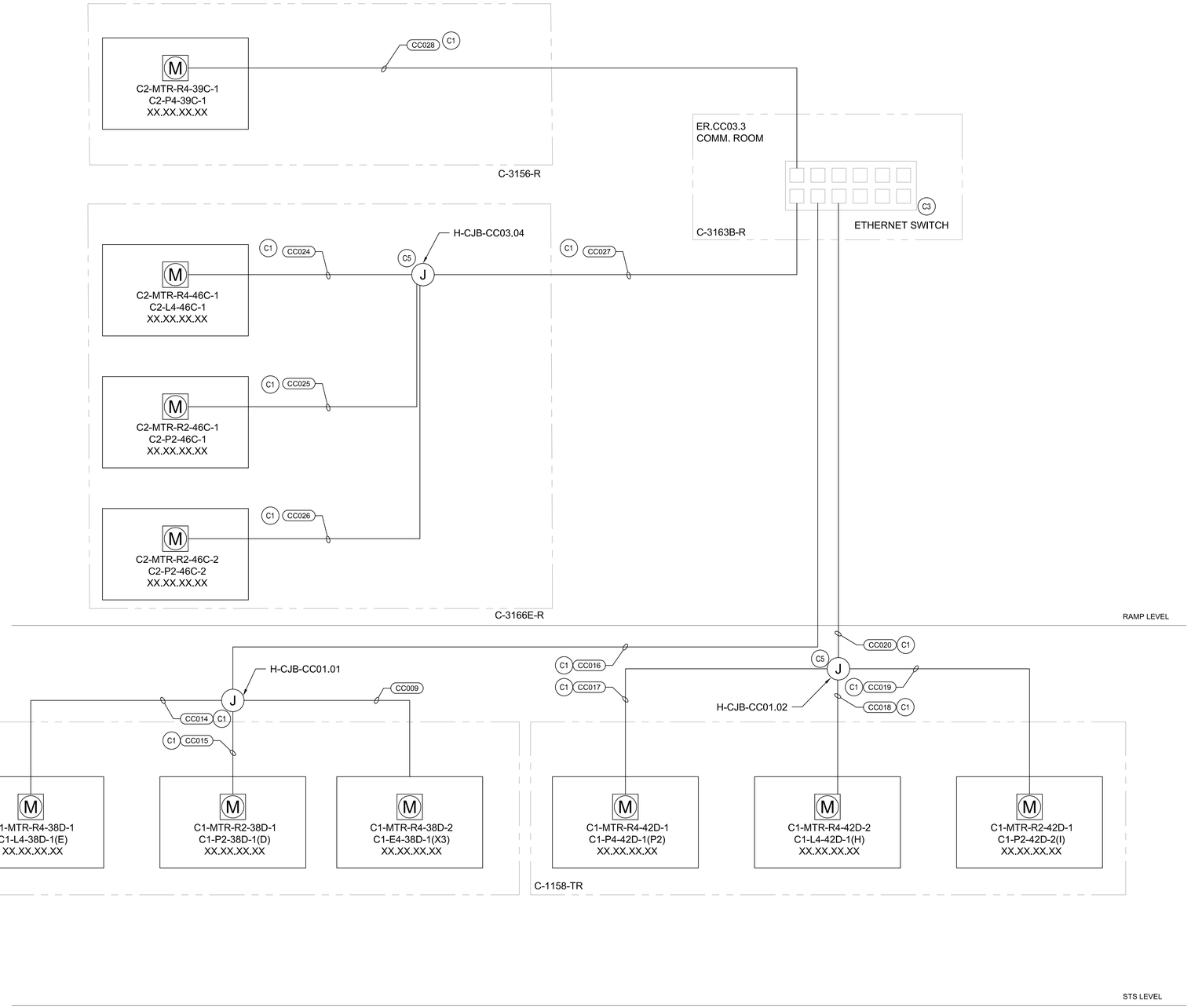
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC515.00



DETAIL

METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

1
EC516.00

LEGEND

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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

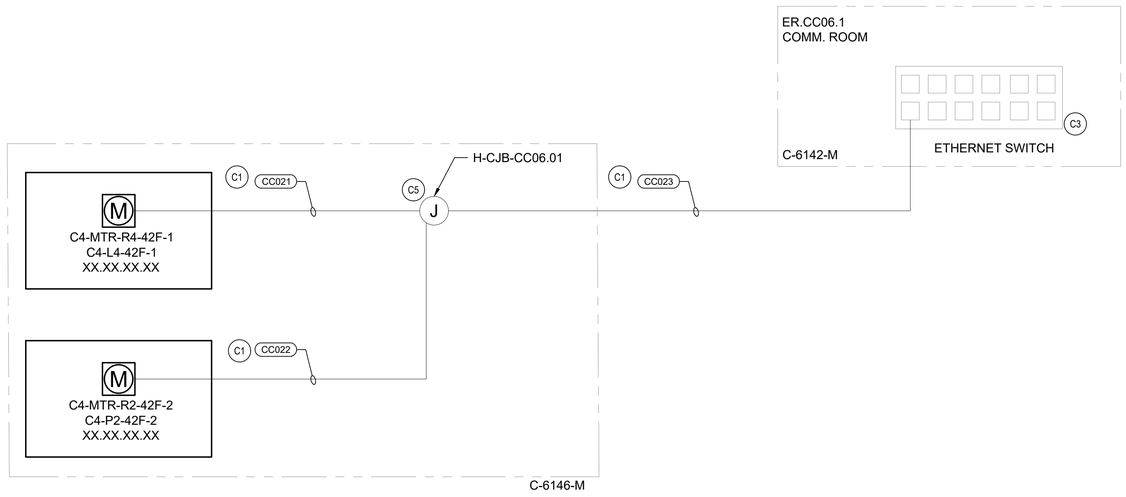
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC516.00



LEGEND

REFERENCE DRAWINGS

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4TH FLOOR

DETAIL 1/EC517.00
METERING NETWORK
RISER DIAGRAM - CONCOURSE C
SCALE: NTS

CALL 2 DAYS
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1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

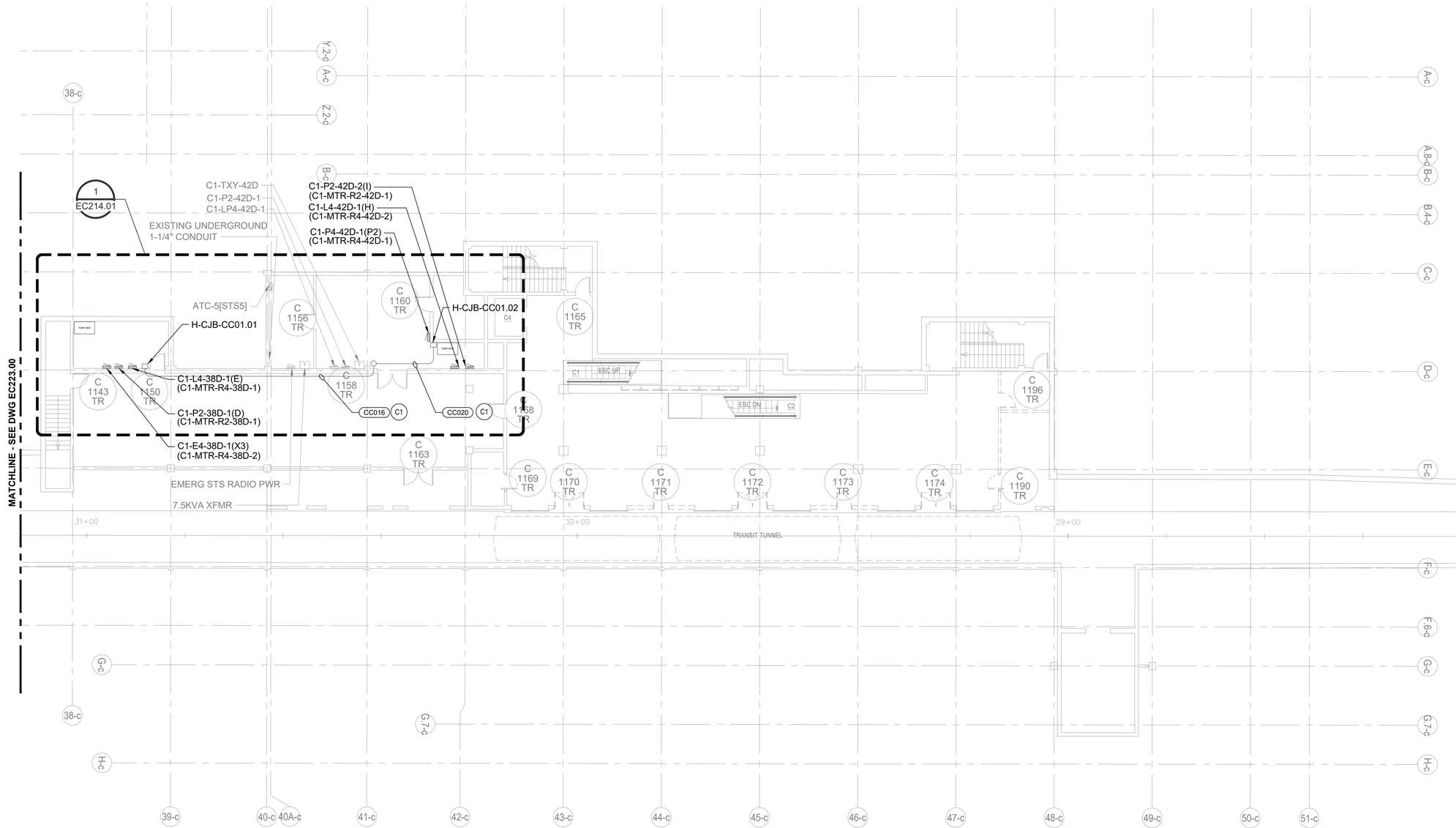
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POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE C

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC517.00



LEGEND

GENERAL NOTES

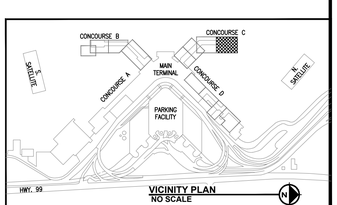
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PLAN

COMMUNICATION PLAN
STS LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale: 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
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REVISIONS

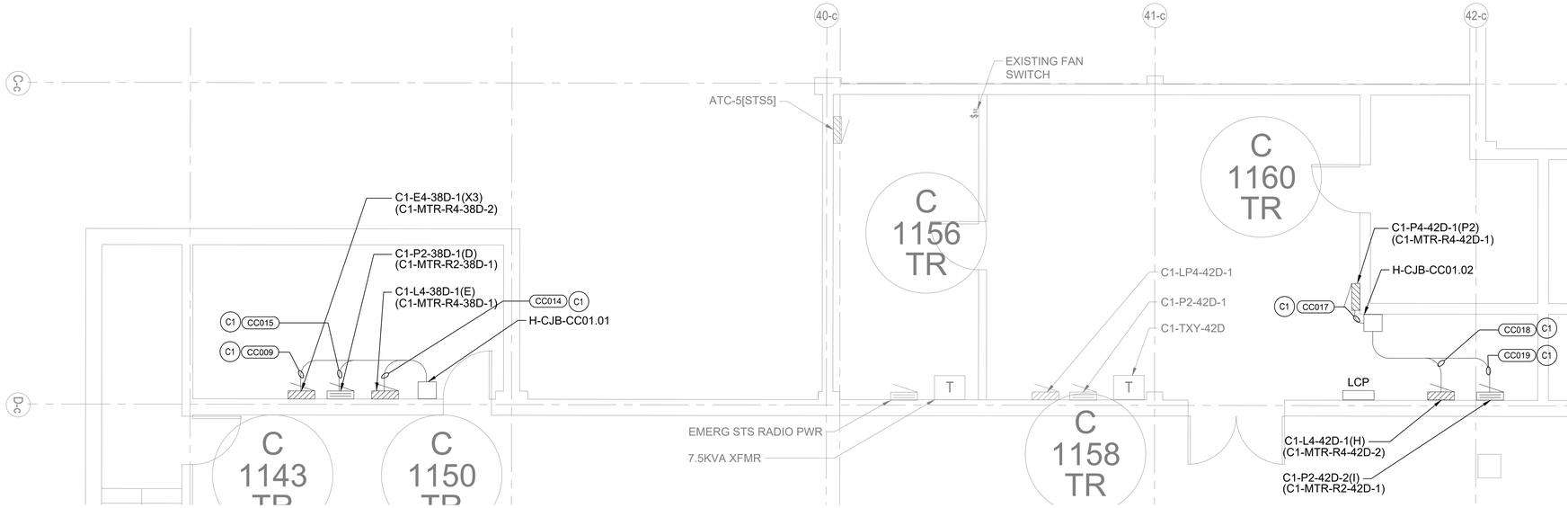
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - STS LEVEL - SECTOR 214

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC214.00



ENLARGED PLAN

1
EP214.00

COMMUNICATIONS PLAN
STS LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

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1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

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DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
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CHECKED/APPROVED BY:

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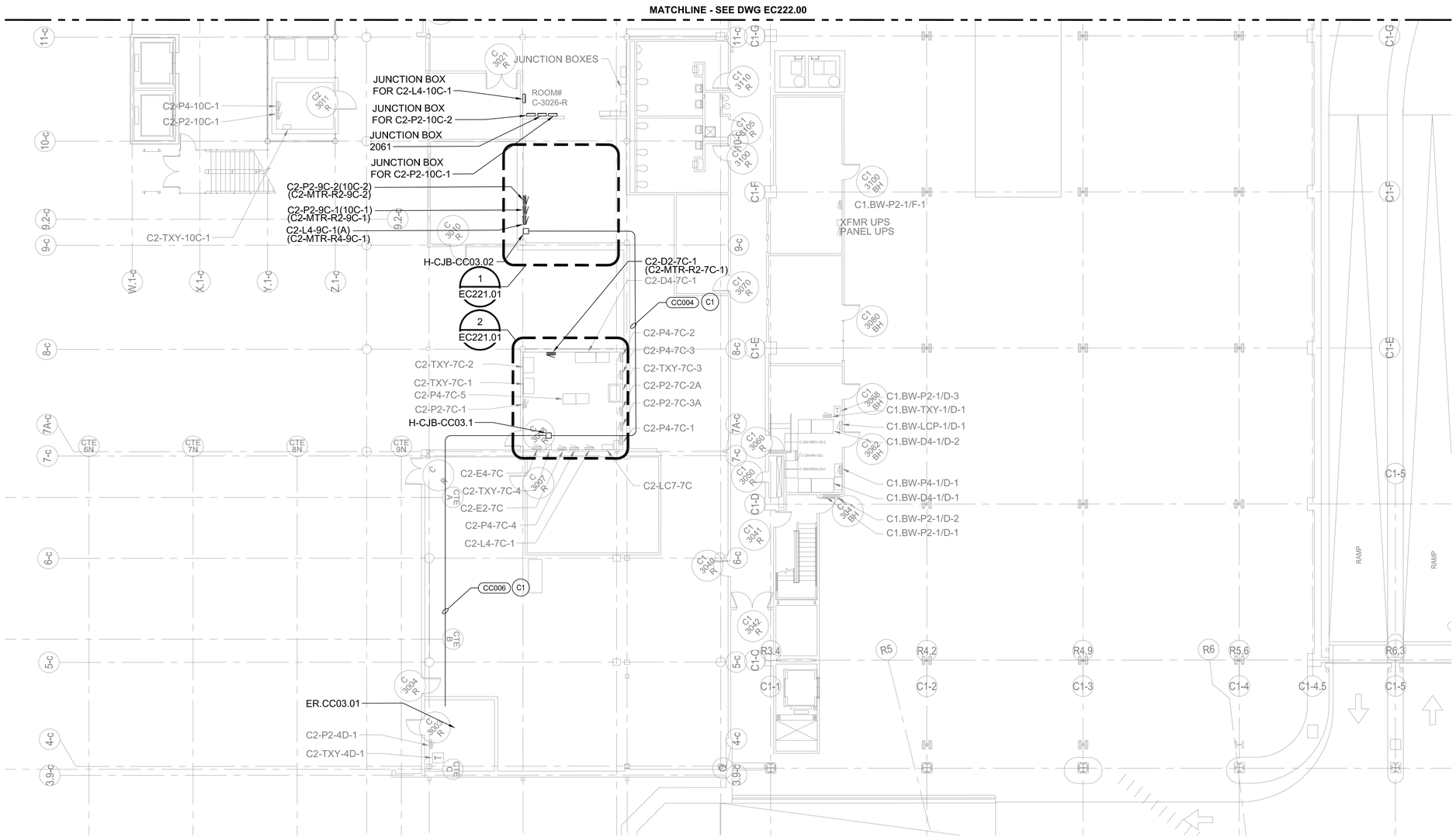
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - STS LEVEL - SECTOR 214

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC214.01



LEGEND

GENERAL NOTES

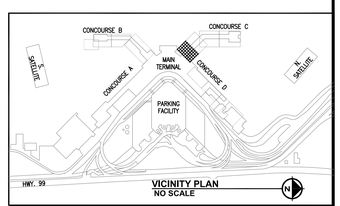
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5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



VICINITY PLAN
NO SCALE

3/32"=1'-0"
5 0 5 10 15 20 25 30
Scale Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH, M. NAMAZI
DRAWN BY:	C. ALLSION
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

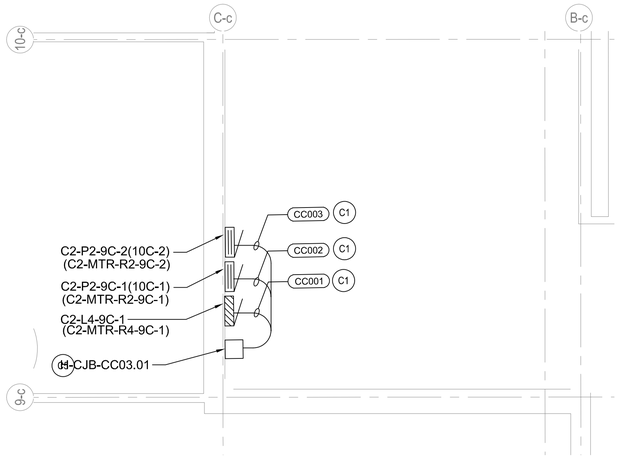
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
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2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 221

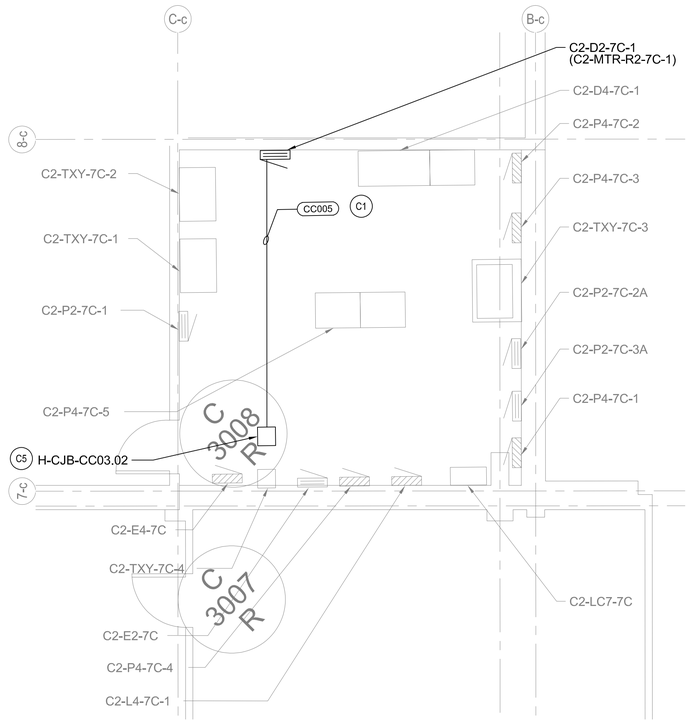
POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC221.00



ENLARGED PLAN 1

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

EC221.00



ENLARGED PLAN 2

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

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DRAWN BY: C. ALLISON
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

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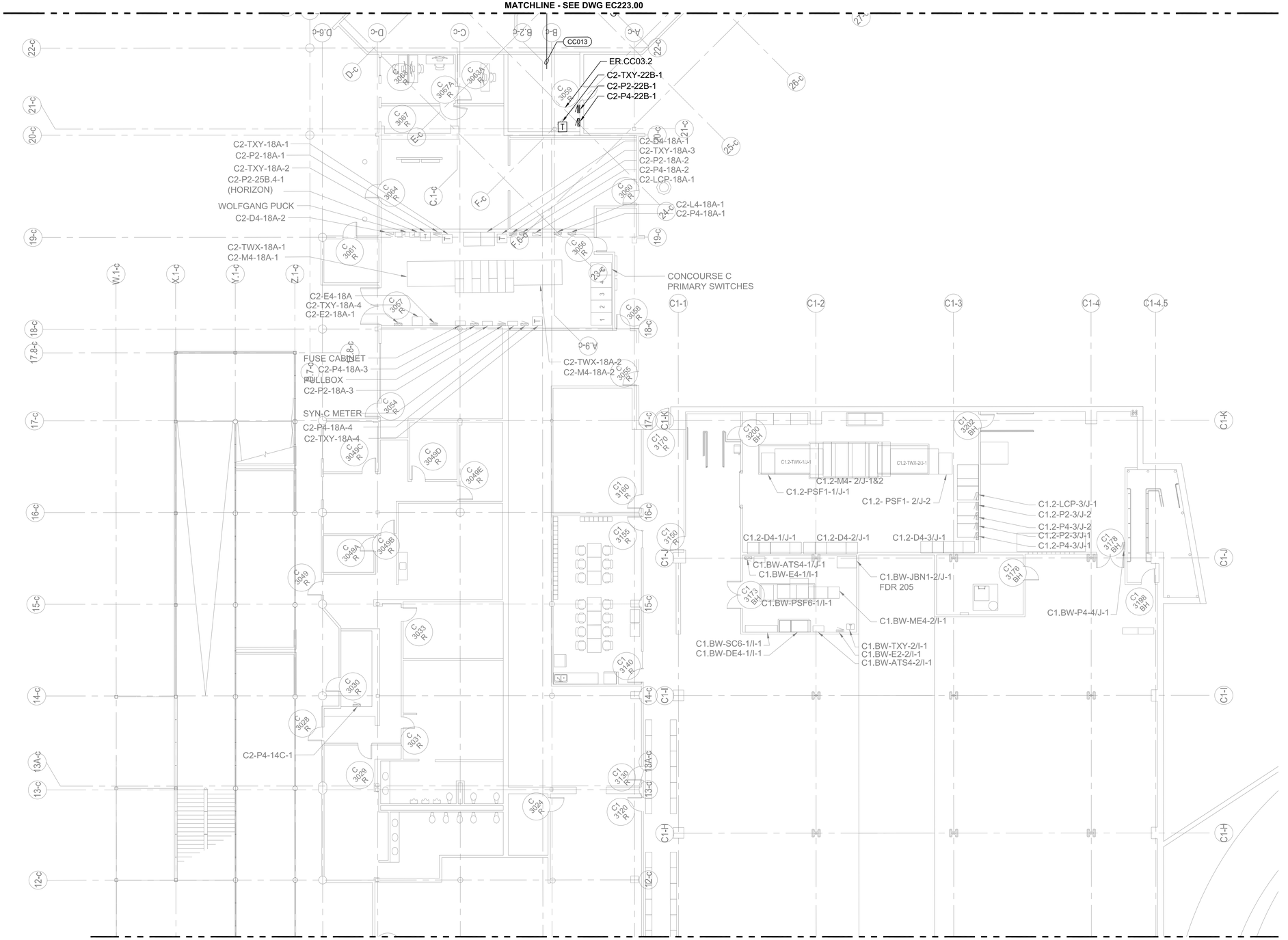
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 221

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC221.01

MATCHLINE - SEE DWG EC223.00

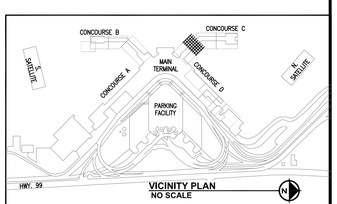


MATCHLINE - SEE DWG EC221.00

PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"

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PROJECT ENGR/ARCH: R. JENTGES
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 222

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC222.00

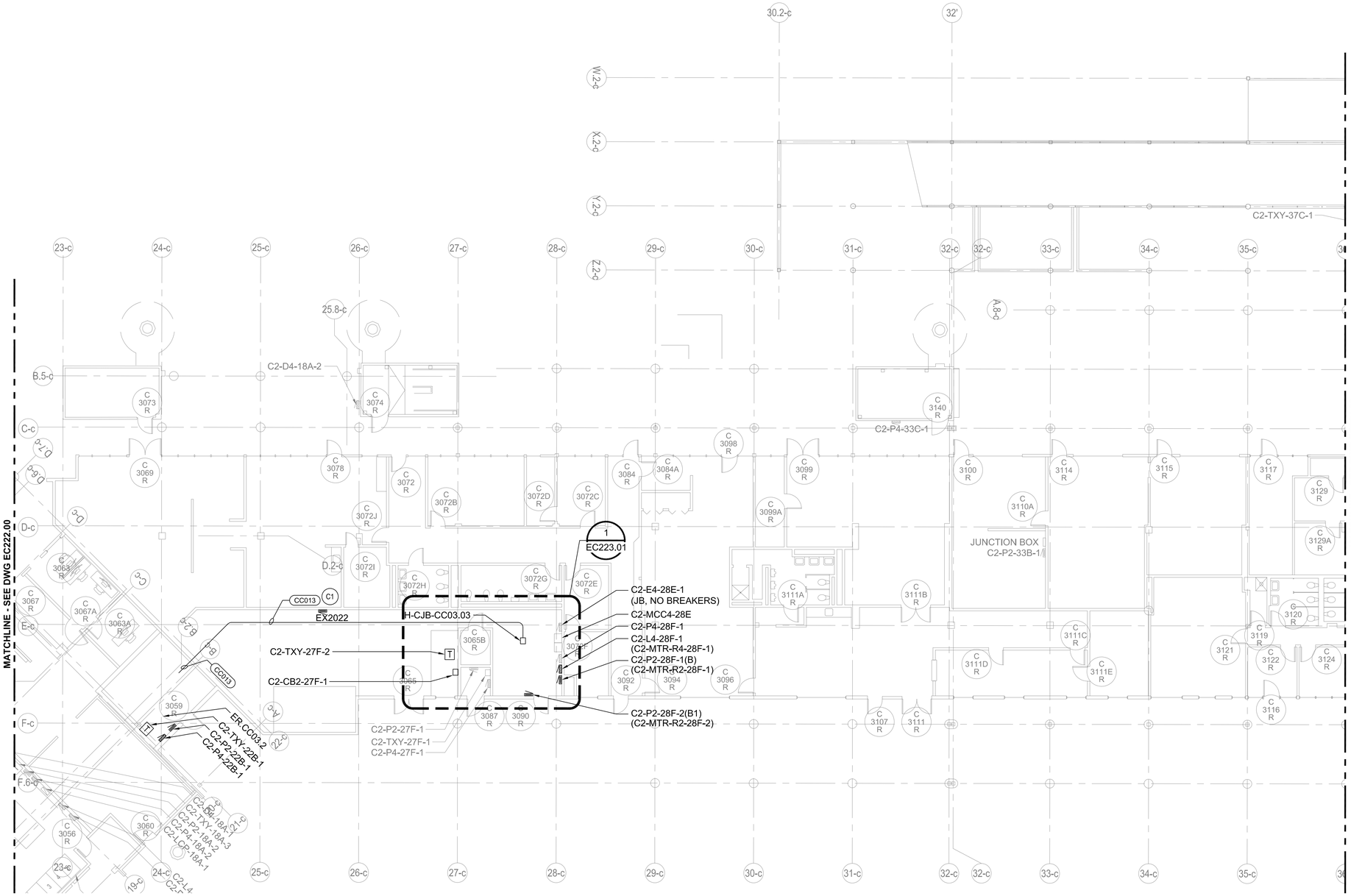
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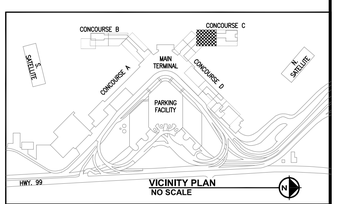
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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



VICINITY PLAN
NO SCALE

3/32"=1'-0" Scale: 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
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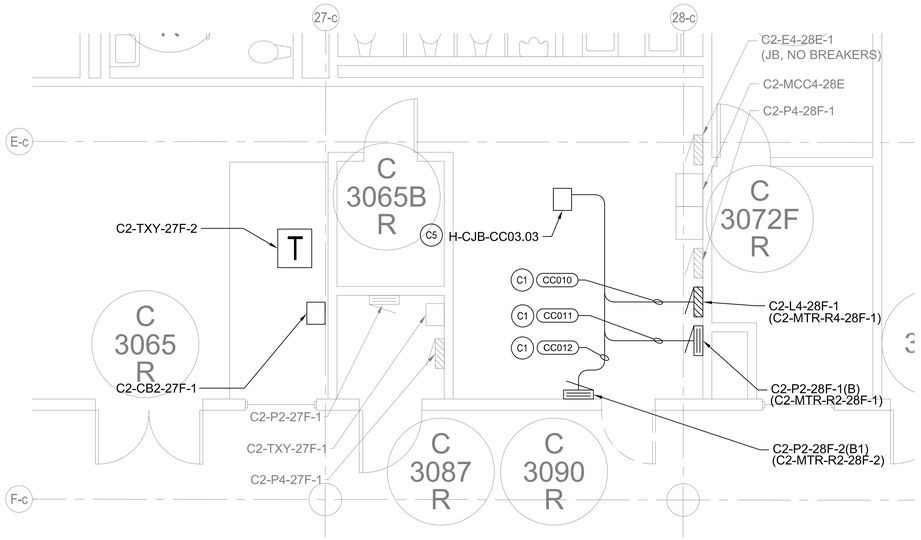
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POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 223

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER:	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC223.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

1
EC223.00

LEGEND

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1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

ECASNE Engineering
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BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
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SCALE: AS NOTED
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STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

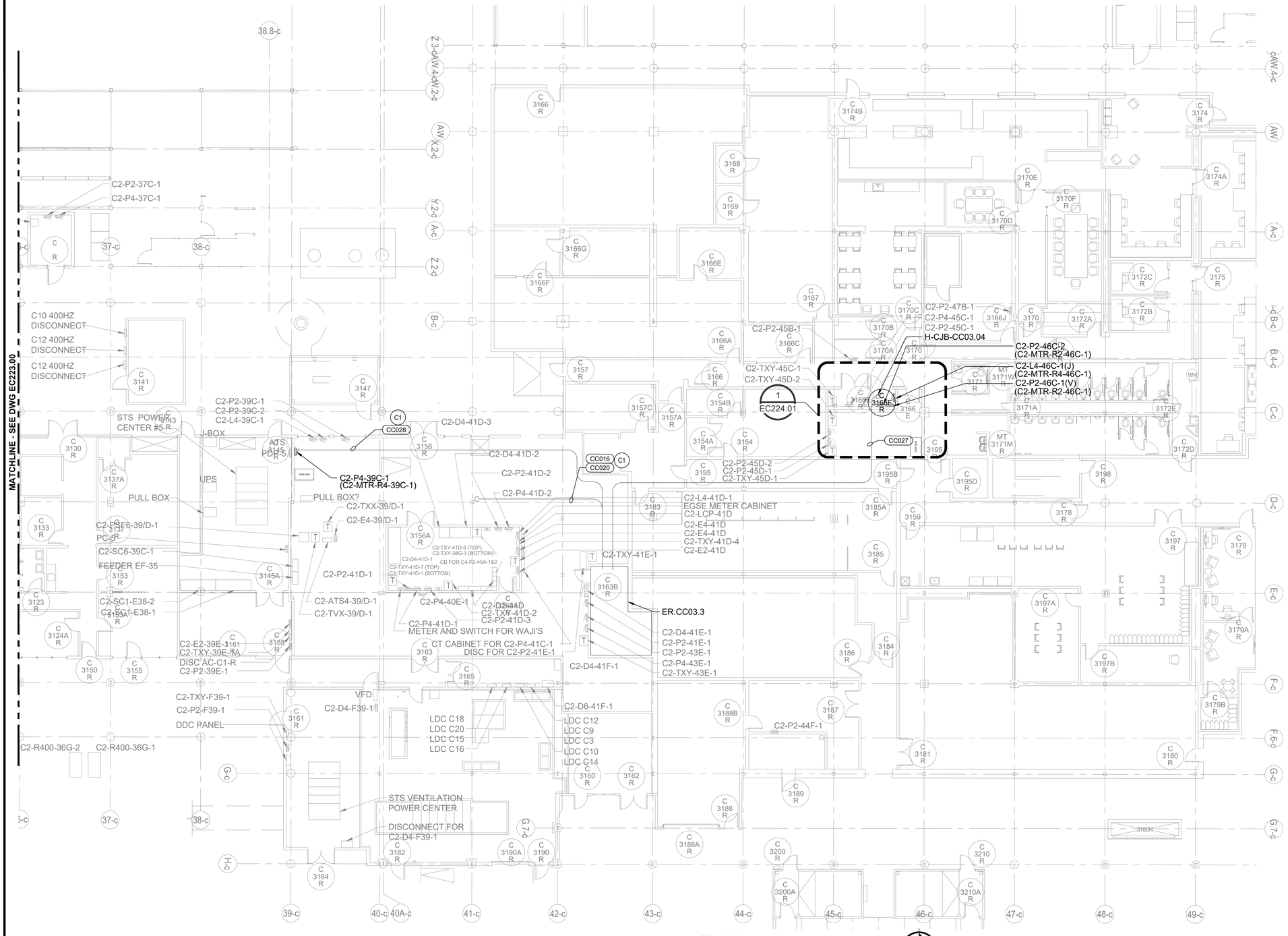
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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
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Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 223

POS WORK PROJECT NUMBER: U00504
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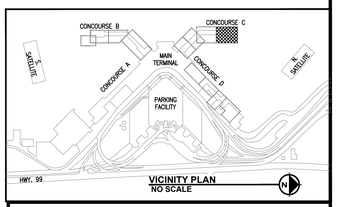


PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"

3/32"=1'-0"

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VICINITY PLAN
NO SCALE

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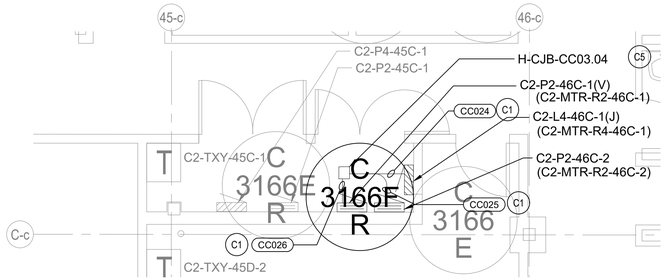
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 224

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC224.00



ENLARGED PLAN — 1 / EC224.00

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

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DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
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CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS

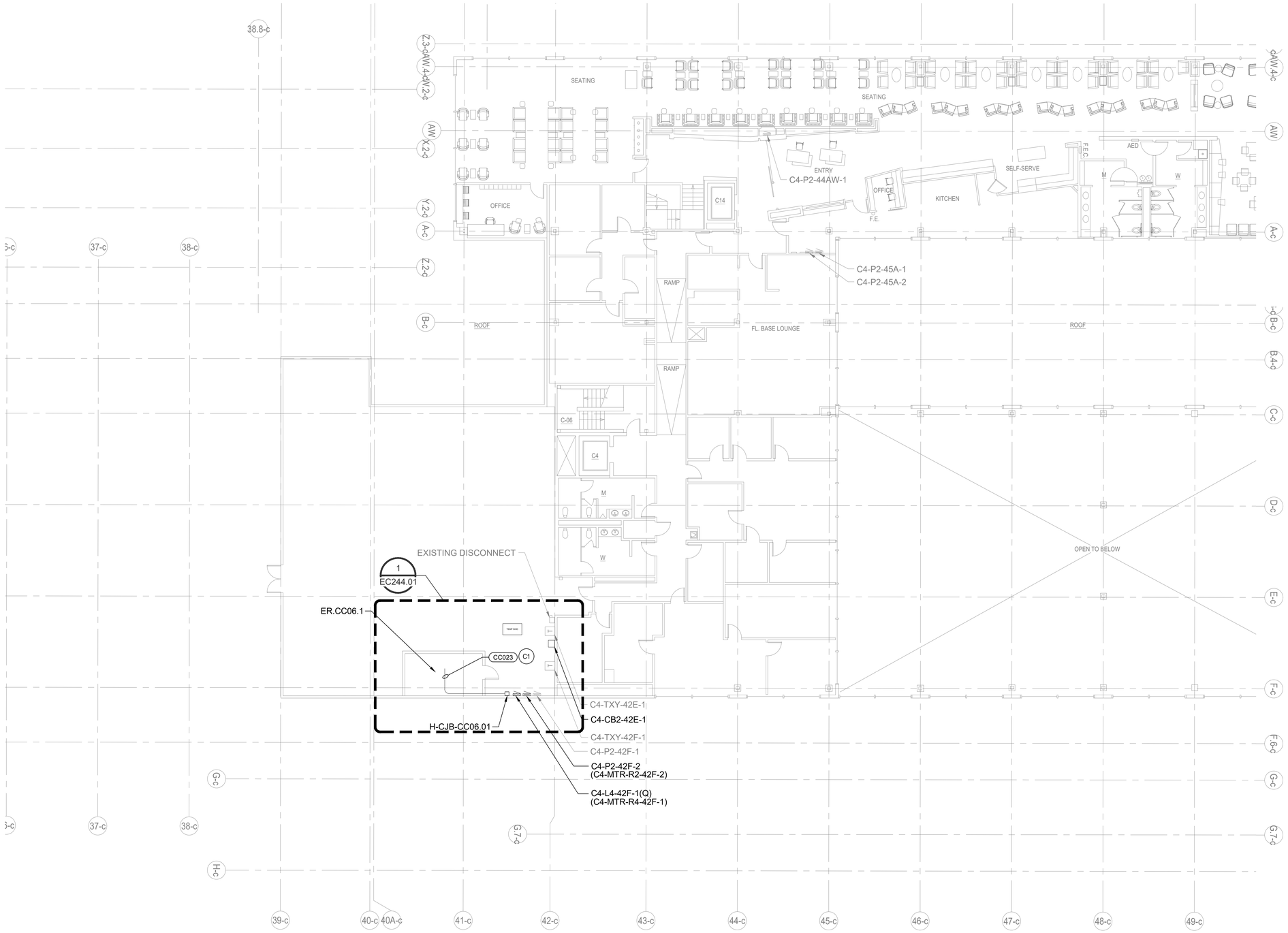
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Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - BAGGAGE LEVEL - SECTOR 224

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC224.01



LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

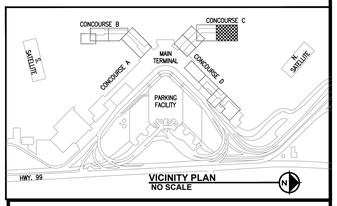
(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

PLAN

COMMUNICATION PLAN
MEZZANINE LEVEL
SCALE: 3/32" = 1'-0"

N

3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

ECASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE STATE OF WASHINGTON 35276 REGISTERED PROFESSIONAL ENGINEER

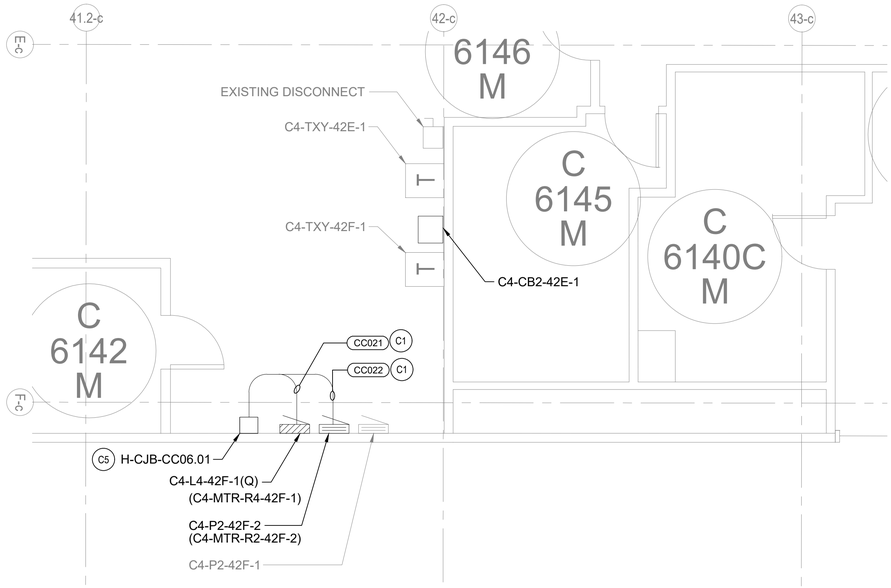
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE C - MEZZANINE LEVEL - SECTOR 244

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC244.00



ENLARGED PLAN — 1 / EC244.00

COMMUNICATION PLAN
MEZZANINE LEVEL
CONCOURSE C
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
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5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

1/4"=1'-0" Scale — 2 0 2 4 6 8 10 Feet

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE C - MEZZANINE LEVEL - SECTOR 244

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC244.01

APPLICATION FOR CONNECTION TO COMMUNICATION INFRASTRUCTURE
-FORM-

Send Completed Applications to:	**AVCommittees@portseattle.org**	Received by F&I:	Click or tap to enter a date.

SECTION 1 *(to be completed by POS Project Manager)*

1.1: Acknowledgement, Infrastructure Nomenclature, and COMM Connection Process:

☒	I have reviewed the Application for Connection to Communication System Instructions (Periodically check for updated information and support)	☒	I am using the current Application version [For your convenience, below link is to all applications and instructions] (Applications for Utilities Connections | Port of Seattle (portseattle.org)

YES	NO	N/A	REQUESTED	
☐	☒	☐	☐	**COMM Infrastructure Connections***- I have media termination assignment(s) and nomenclature from ICT Infrastructure (z-it-telecom-infra@portseattle.org) **(*) Required no later than 90% and inc. on design**
YES	NO	N/A	UNKNOWN	
☒	☐	☐	☐	Project shall require an **Application for Connection to Special Systems**. Review the Special Systems Application or the (Special Systems Matrix_2023.xlsx (sharepoint.com) for more information

1.2 Project Coding:

Submittal Date:	CIP #:	Project ID:	Activity:	Phase:
6/26/2024	Click or tap here to enter text.	U00504	Concourse Low Voltage System Upgrade	90%

1.3: Project includes Communication Infrastructure involving (check all that apply):

☐	New Facility (Including expansion of existing facility)	☐	Airline Support (PLB, Ticket Counter, Gate Service, Lounge, etc.)
☐	Remodel to existing Facility	☐	Office space(s) (distribution of Horizontal Cabling)
☐	New Communication Room(s)	☒	Existing Infrastructure Adds, Moves, and/or Changes (to Rooms, Pathways, and/or Cabling)
☐	New Comm Cabinet(s) (MDC, SDC, FTBS, Tenant DMARC)	☐	Auxiliary building(s) or space(s) outside of SEA Terminal
☐	Outside Plant (Pathways, Enclosures, and/or Cable)	☒	Special System(s) -Requires an Application for Connection to Special Systems to be completed
☐	Other:	Click or tap here to enter text.	

1.4: Connection Specifics:

COMM CONNECTION TYPE:	**HORIZONTAL MEDIA (Device/Destination CABLE INFRA. to COMM/Source**		
TO COMM RM:	**See attached plans and one-lines**	***or COMM CABINET:***	Click or tap here to enter text.
Additional Project Notes: (Brief notes to provide any comm connection details not captured above)	Connection form for metering installed with new panels in Concourse D.		

1.5: Project Contacts:

Group:	Company:	Representative:	Phone:	Email:
SEA PM:	Port of Seattle	Christina Burdett	(206) 518-4439	burdett.c@portseattle.org
Design Firm:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
COMM Design Engineer:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Tenant Rep.:	N/A	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

SECTION 2 *(to be completed by Communications Design Engineer)*

APPLICATION FOR CONNECTION TO COMMUNICATION INFRASTRUCTURE
-FORM-

2.1: Acknowledgement:			
☒	I have reviewed the applicable sections of the F&I SEA COMMUNICATION STANDARDS related to this project's communication design. *Periodically check for updated information: Design Standards and Guidelines | Port of Seattle (portseattle.org)	☒	Comm Design Engineer has been coordinating with Architectural, Electrical, Mechanical, and Civil teams for projects where applicable; especially on those that include new/remodeled comm spaces

2.2: Project Design Questionnaire:					
YES	NO	N/A	See Notes	Design Engineer has provided design documentation for the following (**BOLD**= Minimum design documentation to provide with Application applicable to design)	Complete if "See Notes" box is selected
☒	☐	☐	☐	**SEA Facility CAD Backgrounds** (Include any Outside Plant, building floor and/or RCP Plans, etc. Provide detail of all Backbone and Horizontal pathways with cable fill amounts from Source to Destination	Click or tap here to enter text.
☒	☐	☐	☐	**One-line** and/or **Riser diagram(s)**	Click or tap here to enter text.
☒	☐	☐	☐	**Cable Schedules** (Shall include all Cable ID's and the Source and Destination termination assignment per cable)	Click or tap here to enter text.
☒	☐	☐	☐	Comm infrastructure that supports any Airport **Special Systems** (Coordinate w/ PM per section 1.1 and 1.3)	Click or tap here to enter text.
☐	☐	☒	☐	Tenant Demarcation package(s)	Click or tap here to enter text.
☐	☐	☒	☐	Comm Room Plans (Include floor, RCP, wall field, and rack/cabinet elevations)	Click or tap here to enter text.
☐	☐	☒	☐	Demolition of infrastructure (Equipment, pathways, and/or cabling)	Click or tap here to enter text.
Additional information (optional):				Click or tap here to enter text.	

SECTION 3: APPLICATION STATUS *(to be completed by Facilities and Infrastructure Communication Engineer)*

3.1: Application compliance checklist:					
YES	NO	N/A	See Notes	Confirm Items:	Completed if "See Notes" box is selected
☐	☐	☐	☐	Eligible for Expedited Review(s)	Click or tap here to enter text.
☐	☐	☐	☐	Design includes termination data	Click or tap here to enter text.
☐	☐	☐	☐	Design includes nomenclature data	Click or tap here to enter text.
☐	☐	☐	☐	COMM Design drawings included	Click or tap here to enter text.

3.2: Application Status:

☐ **Approved** ☐ **Approved as Noted** (see below) ☐ **Revise and Resubmit** ☐ **Rejected**

Notes: Click or tap here to enter text.

Attend Telecom Design Review at:	30%	60%	90%	100%	Other:	1st Application Received at %:	Choose an item.
	☐	☐	☐	☐	☐ Click or tap here to enter text.		

Facilities and Infrastructure Communication Reviewer:

Date: Click or tap to enter a date.

CONCOURSE D POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH IN FEET - ENGINEER	ESTIMATED LENGTH IN FEET - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
D200	NOT USED											
D201	D2-D2-27A-1	D2-TXY-27A-2	500	510	RETAINED 3"C. REUSED	2	4-250 kcmil	#2		15	0.18	EP529
D202	D3-P2-A35-1	D2-D2-27A-1	200	200	RETAINED 3" C. REUSED	1	4#3/0	#6		194	2.44	EP529
D203	D3-P2-A17-1	D2-D2-27A-1	200	200	RETAINED 2"C. REUSED	1	4#3/0	#6		90	1.13	EP529
D204	D2-D2-42A.2-1	D2-TXY-42A.2-1	1200	1240	3" GRC	3	4-400 kcmil	#1/0	7.5		0.11	E526
D205	D2-P2-42A.2-1	D2-D2-42A.2-1	225	230	2 1/2" GRC	1	4#4/0	#4	7.5		0.09	EP526
D206	NOT USED											
D207	NOT USED											
D400	D2-D4-6C-1	D2-M4-27A-2	800	760	4"	2	3-600 kcmil	#1/0		NEW ADDED FEEDER LENGTH FROM D2-D4-7C-1 JUCTION BOX TO NEW PANEL D2-D4-6C-1 IS **47 FEET.** TOTAL LENGTH OF EXSITING FEEDER FROM UPSTREAM PANEL TO JUNCTION BOX IS 550 FEET.	2.95	EP526
D401	D2-L4-20A-1	D2-D4-20A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		33	0.17	EP526
D402	D2-P4-20A-1	D2-D4-20A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		25	0.13	EP526
D403	D2-L4-11B-1	D2-D4-11B-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		40	0.21	EP526
D404	D2-P4-11B-1	D2-D4-11B-1	400	380	4"		4-500 kcmil	#3		45	0.26	EP526
D405	D2-P4-12B-1	D2-D4-11B-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		42	0.22	EP526
D406	D2-P4-46B-1	D2-P4-44B.2-1	100	95	1 1/2"C.		4#2	#6	78		0.45	E527
D407	D2-TXY-28A-1	D2-P4-12B-1	20	30	RETAINED 3/4" FLEX CONDUIT REUSED		3#10	#10		395	2.38	EP528
D408	D2-TXY-12B-1	D2-P4-12B-1	20	30	RETAINED 1/2" FLEX CONDUIT REUSED		3#10	#10		18	0.11	EP528
D409	D2-P4-R9Q-1	D2-D4-11B-1	400	380	RETAINED 2 SETS OF 2 1/2"C. REUSED	2	4#3/0 kcmil	#6		245	1.34	E528
D410	D2-TXY-R9Q-1	D2-P4-R9Q-1	225	230	RETAINED 2" FLEX CONDUIT REUSED		3#4/0	#4		22	0.092	EP528
D411	D2-P4-20A-2	D2-D4-20A-1	400	380	RETAINED 4"C. REUSED		4-500 kcmil	#3		40	0.23	EP528
D412	D2-TXY-20A-3	D2-P4-20A-2	110	115	RETAINED 1 1/4" RIGID FLEX CONDUIT REUSED		3#2	#6		25	0.16	EP528
D413	NOT USED											
D414	NOT USED											
D415	NOT USED											
D416	NOT USED											
D418	D2-P4-40D-2	D2-D4-40D-1	600	620	RETAINED 3"C. REUSED	2	4-350 kcmil	#1		30	0.15	EP527
D419	D2-P4-40D-1	D2-D4-40D-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		30	0.16	EP527
D420	D2-L4-40D-1	D2-D4-40D-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		30	0.16	EP527
D421	D2-P4-27A-1	D2-D4-27A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		30	0.16	EP527
D422	D2-P4-27A-2	D2-D4-27A-1	400	380	RETAINED 4"C. REUSED		4-500 kcmil	#3		60	0.35	EP527
D423	D2-L4-27A-1	D2-D4-27A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		60	0.31	EP527
D424	D2-TXY-27A-3	D2-P4-27A-2	70	70	RETAINED 1 1/2" UNDERGROUND CONDUIT REUSED		3#4	#8		20	0.12	EP529
D425	D2-D4-42A.2-1	D2-M4-27A-1	1200	1240	3" GRC	4	4-350 kcmil	3/0	373		1.92	EP526
D426	D2-TXY-42A.2-1	D2-D4-42A.2-1	450	460	2 1/2" GRC	2	3#4/0	#2	7.5		0.031	EP526
D427	NOT USED											
D428	NOT USED											
D429	NOT USED											

EMERGENCY POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ACTUAL LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
E200	B2-E3-12E-1	B2-ETXZ-12E-1	50	55	3/4"	1	3 - #6	#8	10'		0.2	EP511.00
E201	B2-E3-12E-2	B2-ETXZ-12E-2	50	55	RETAINED 3/4" REUSED	1	3 - #6	#8	10'		0.2	EP511.00
E400	C1-E4-38D-1	C2-E4-39/D-1	100	115	RETAINED 2" REUSED	1	4 - #2	#8	45'		0.3	EP519.00
E401	B1-E4-G53	B1-E4-D/7-1	50	55	RETAINED 1-1/4" REUSED	1	4 - #6	#10	50'		0.4	EP511.00
E402	B2-E4-12E	B2-E4-17G	60	70	1-1/4"	1	4 - #4	#10	150'		0.8	EP511.00
E403	B2-ETXZ-12E-1	B2-E4-12E	30	30	3/4"	1	2 - #10	#10	10'		0.1	EP511.00
E404	B2-ETXZ-12E-2	B2-E4-12E	30	30	RETAINED 1/2" FLEX REUSED	1	2 - #10	#10	50'		0.6	EP511.00

CONCOURSE D COMMUNICATIONS FEEDER SCHEDULE

FEEDER #	TO (METER)	TO (ELEC PANEL)	TO (ELEC ROOM)	FROM	FROM (ROOM)	CONDUIT SIZE	CONDUCTOR	ESTIMATED LENGTH - IN FEET - ENGINEER	ACTUAL LENGTH - CONTRACTOR	ONE LINE SHEET #
CD001	D2-MTR-R4-12B-1	D2-P4-12B-1	D-3022-R	H-CB-CD03.03	D-3022-R	3/4"	1 CAT 6	78		EC526.00
CD002	D2-MTR-R4-11B-1	D2-P4-11B-1	D-3022-R	H-CB-CD03.03	D-3022-R	3/4"	1 CAT 6	15		EC526.00
CD003	D2-MTR-R4-11B-1-2	D2-L4-11B-1	D-3022-R	H-CB-CD03.03	D-3022-R	3/4"	1 CAT 6	10		EC526.00
CD004	D2-MTR-R4-20A-1-1	D2-P4-20A-1	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	25		EC527.00
CD005	D2-MTR-R4-20A-1-2	D2-L4-20A-1	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	20		EC527.00
CD006	D2-MTR-R4-6C-1	D2-D4-6C-1	D-3008-R	H-CB-CD03.02	D-3019-R	3/4"	1 CAT 6	10		EC526.00
CD007	D2-MTR-R2-20A-1	D2-D2-20A-1	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	20		EC527.00
CD008	D2-MTR-R4-20A-2	D2-P4-20A-2	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	25		EC527.00
CD009	D2-MTR-R4-R9Q-1	D2-P4-R9Q-1	RQ9	H-CJB-CD03.02	D-3008-R	3/4"	1 CAT 6	85		EC526.00
CD010	D2-MTR-R4-27A-1-1	D2-P4-27A-1	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	35		EC527.00
CD011	D2-MTR-R4-27A-1-2	D2-L4-27A-1	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	16		EC527.00
CD012	D2-MTR-R4-27A-2	D2-P4-27A-2	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	38		EC527.00
CD013	D2-MTR-R4-40D-2	D2-P4-40D-2	D-3106-R	H-CJB-CD03.06	D-3106-R	3/4"	1 CAT 6	11		EC528.00
CD014	D2-MTR-R4-40D-1	D2-P4-40D-1	D-3106-R	H-CJB-CD03.06	D-3106-R	3/4"	1 CAT 6	13		EC528.00
CD015	D2-MTR-R2-27A-1	D2-D2-27A-1	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	28		EC527.00
CD016	D2-MTR-R4-42A.2-1	D2-D4-42A.2-1	D-3119-R	H-CJB-CD03.07	D-3119-R	3/4"	1 CAT 6	18		EC528.00
CD017	NOT USED									
CD018	NOT USED									
CD019	NOT USED									
CD020	D2-MTR-R2-42A.2-1	D2-D2-42A.2-1	D-3119-R	H-CJB-CD03.07	D-3119-R	3/4"	1 CAT 6	12		EC528.00
CD021	D2-MTR-R2-42A.2-2	D2-P2-42A.2-1	D-3119-R	H-CJB-CD03.07	D-3119-R	3/4"	1 CAT 6	9		EC528.00
CD022	NOT USED									
CD023	NOT USED									
CD024	H-CJB.CD03.03	N/A	D-3022-R	XX	D-3019-R	1"	5 CAT 6	15		EC526.00
CD025	H-CJB.CD03.02	N/A	D-3008-R	H-CJB.CD03.03	D-3022-R	1"	2 CAT 6	120		EC526.00
CD026	H-CJB.CD03.04	N/A	D-3049-R	H-CJB.CD03.05	D-3065-R	1"	4 CAT 6	165		EC526.00
CD027	H-CJB.CD03.05	N/A	D-3065-R	H-CJB.CD03.05	D-3065-R	2"	8 CAT 6	15		EC527.00
CD028	D2-MTR-R4-40D-3	D2-L4-40D-1	D-3106-R	H-CJB-CD03.06	D-3106-R	3/4"	1 CAT 6	10		EC528.00
CD029	H-CJB.CD03.06	N/A	D-3106-R	XX	D-3135A-R	1"	3 CAT 6	170		EC528.00
CD030	H-CJB.CD03.07	N/A	D-3119-R	XX	D-3135A-R	1"	3 CAT 6	75		EC528.00

GENERAL NOTES

1. POWER CONDUITS 2" AND LARGER SHALL BE GRS.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C.CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

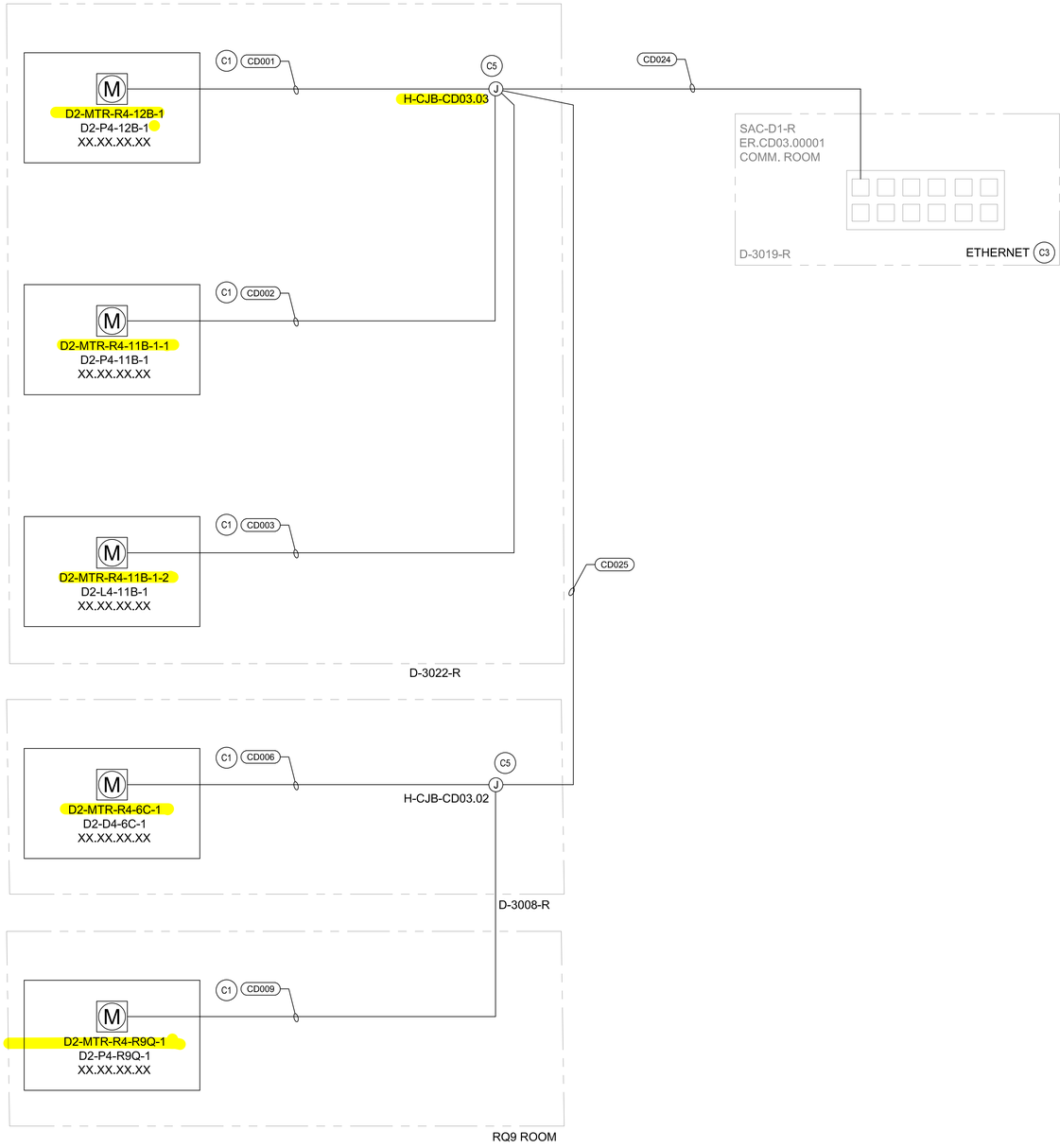
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: FEEDER SCHEDULES - CONCOURSE D & EMERGENCY

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 E010.02



DETAIL

METERING NETWORK
RISER DIAGRAM - CONCOURSE D
SCALE: NTS

1
EC526.00

LEGEND

REFERENCE DRAWINGS

1. STIA2412E400 SERIES- NETWORK/METERING DETAILS.
2. STIA2412E010.00 - CONDUIT FEEDER SCHEDULE - COMMUNICATION.

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

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(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

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BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

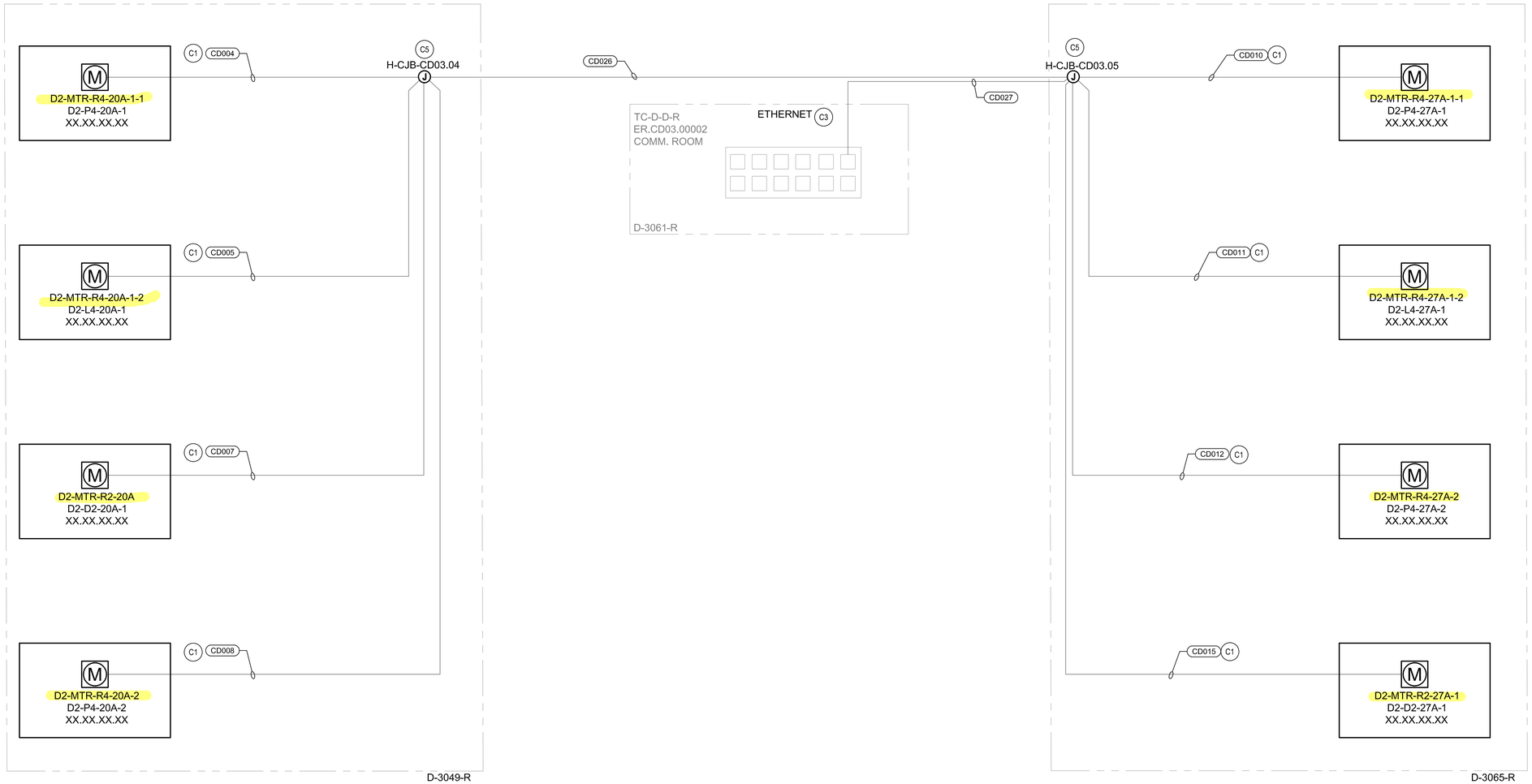
REVISIONS

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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE D

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC526.00



BAGGAGE LEVEL

DETAIL 1
METERING NETWORK
RISER DIAGRAM - CONCOURSE D
SCALE: NTS
EC527.00

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

LEGEND

REFERENCE DRAWINGS

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2. STIA2412E010.00 - CONDUIT FEEDER SCHEDULE - COMMUNICATION

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BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 01/31/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — PRELIMINARY — 35276 — REGISTERED PROFESSIONAL ENGINEER

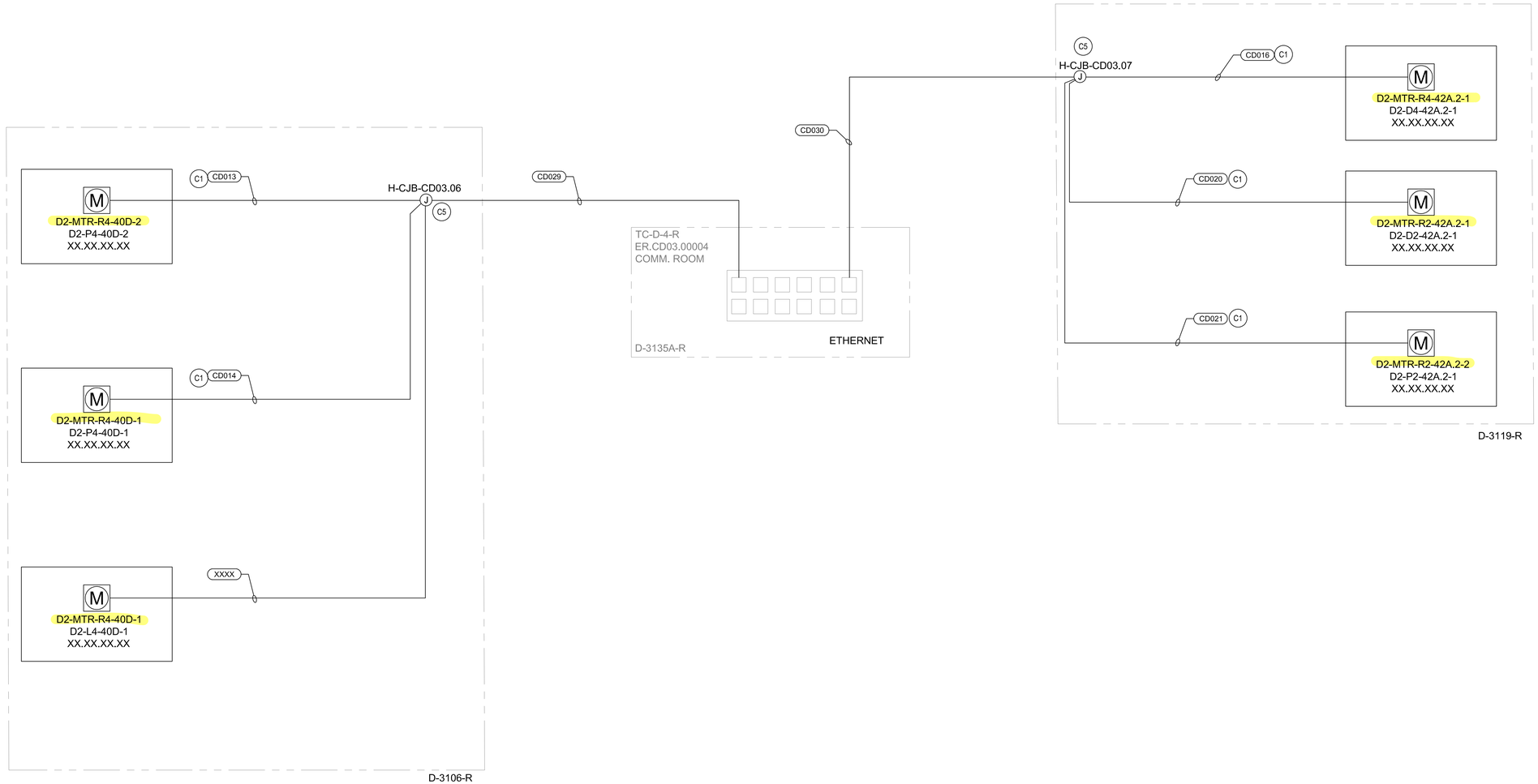
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						

POS PROJECT MANAGER: E. CONLEY
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE D

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC527.00



LEGEND

REFERENCE DRAWINGS

1. STIA2412E400 SERIES- NETWORK/METERING DETAILS.
2. STIA2412E010.00 - CONDUIT FEEDER SCHEDULE - COMMUNICATION

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DETAIL

1
EC528.00

METERING NETWORK
RISER DIAGRAM - CONCOURSE D
SCALE: NTS

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE
STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

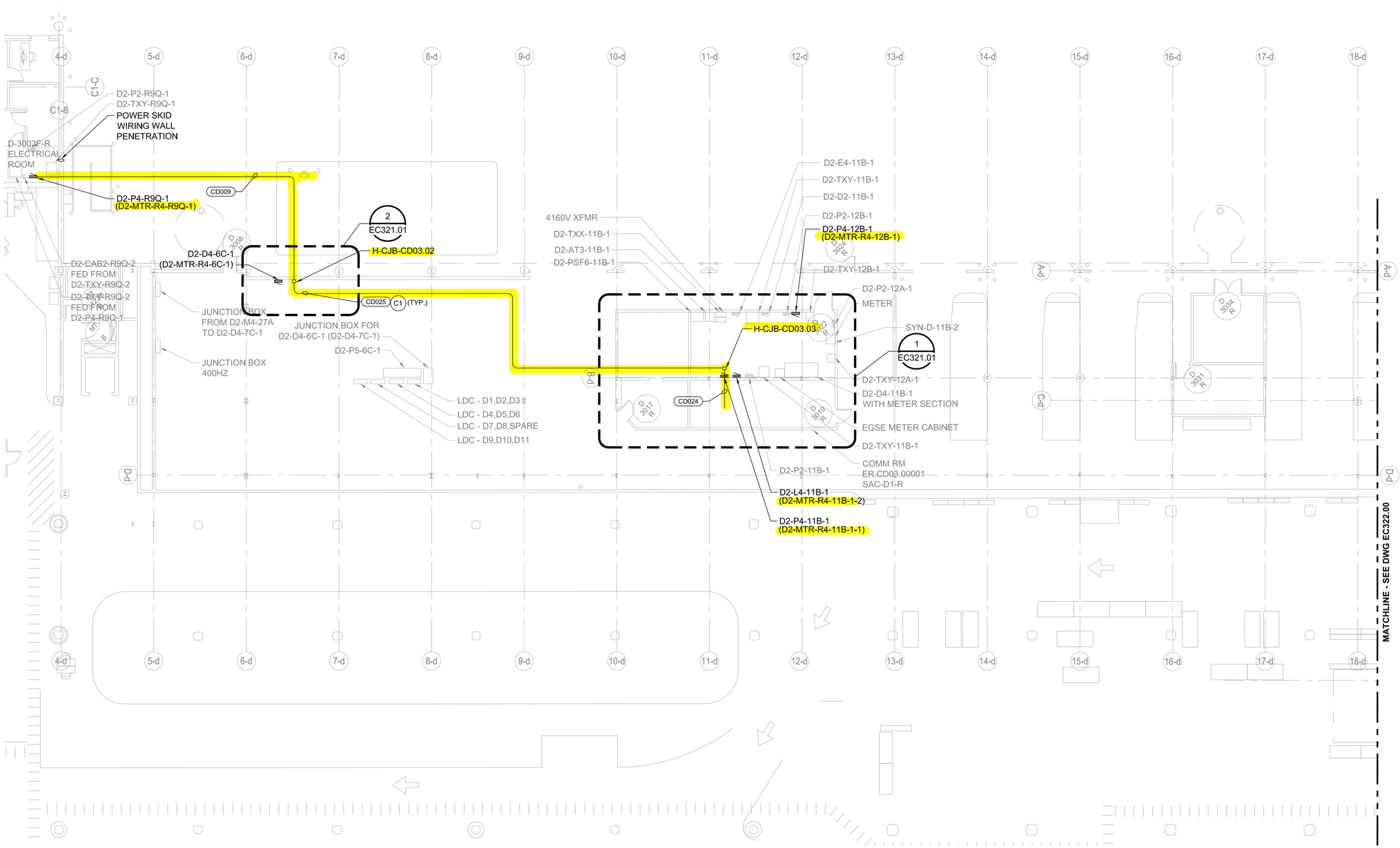
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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE D

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC528.00



LEGEND

GENERAL NOTES

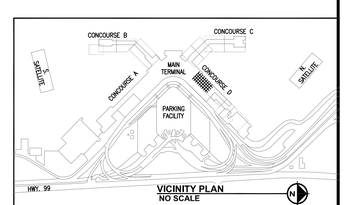
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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

ECASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLSION
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

REVISIONS

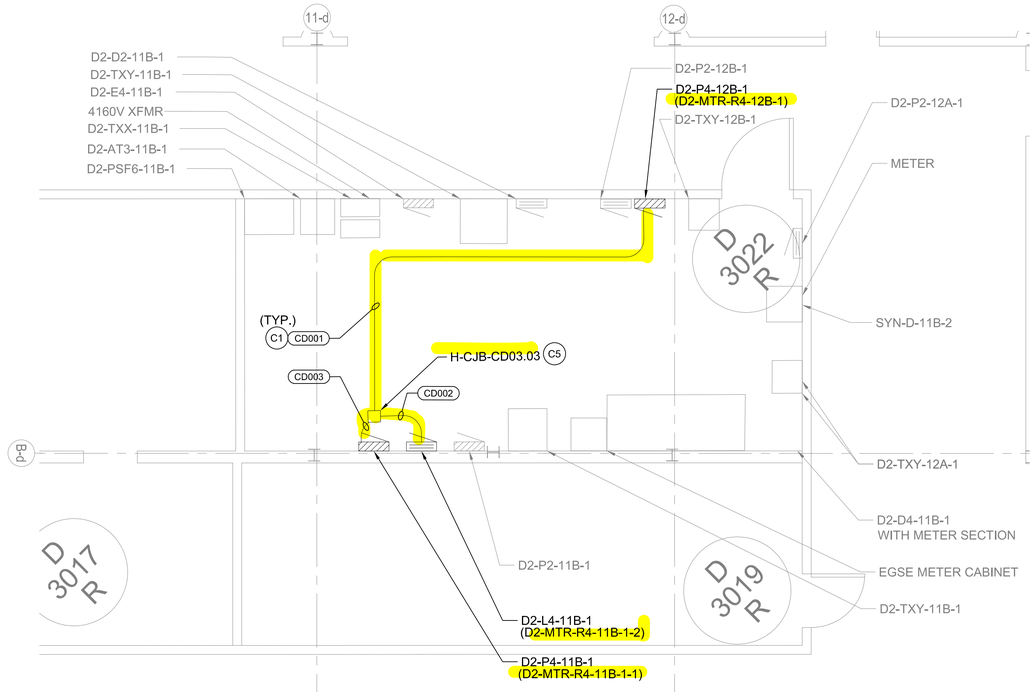
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3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 321

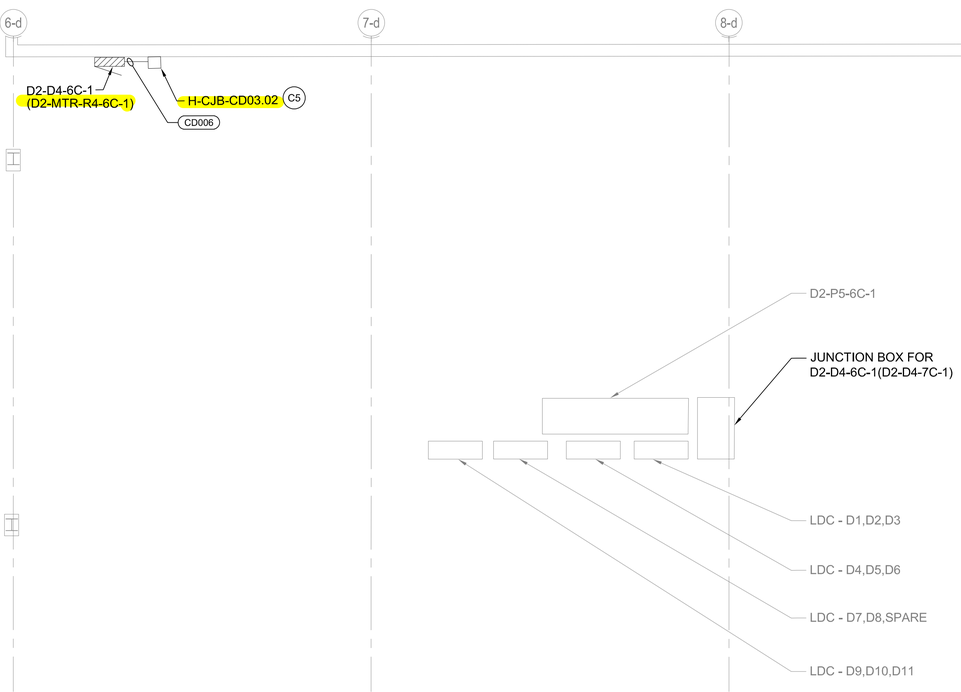
POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC321.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

1 / EC321.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

2 / EC321.00

LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
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(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 01/31/2023
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2023	RJ	60% SUBMITTAL						

POS PROJECT MANAGER: E. CONLEY
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 321

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC321.01

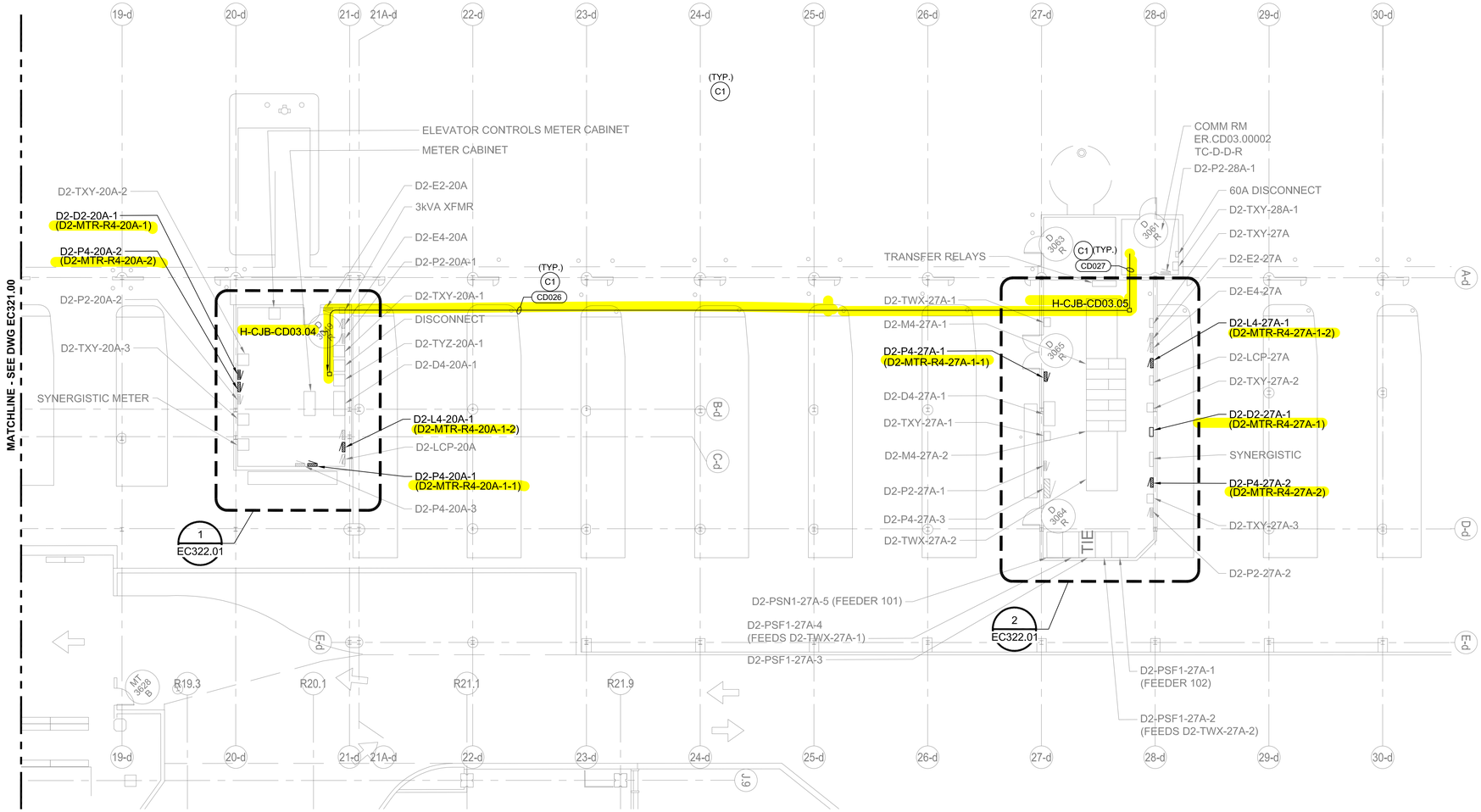
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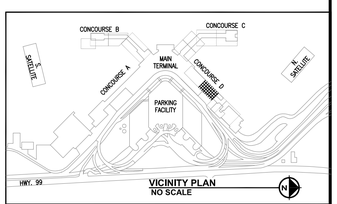
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PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet

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BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH, M. NAMAZI
DRAWN BY:	C. ALLISON
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE STATE OF WASHINGTON 35276 REGISTERED PROFESSIONAL ENGINEER 06/26/24

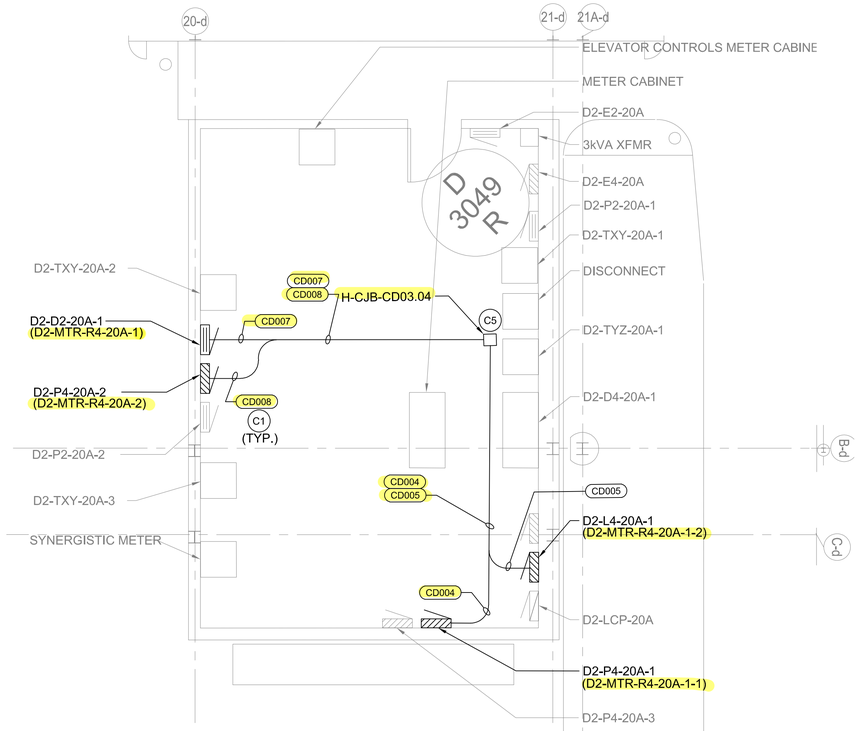
REVISIONS

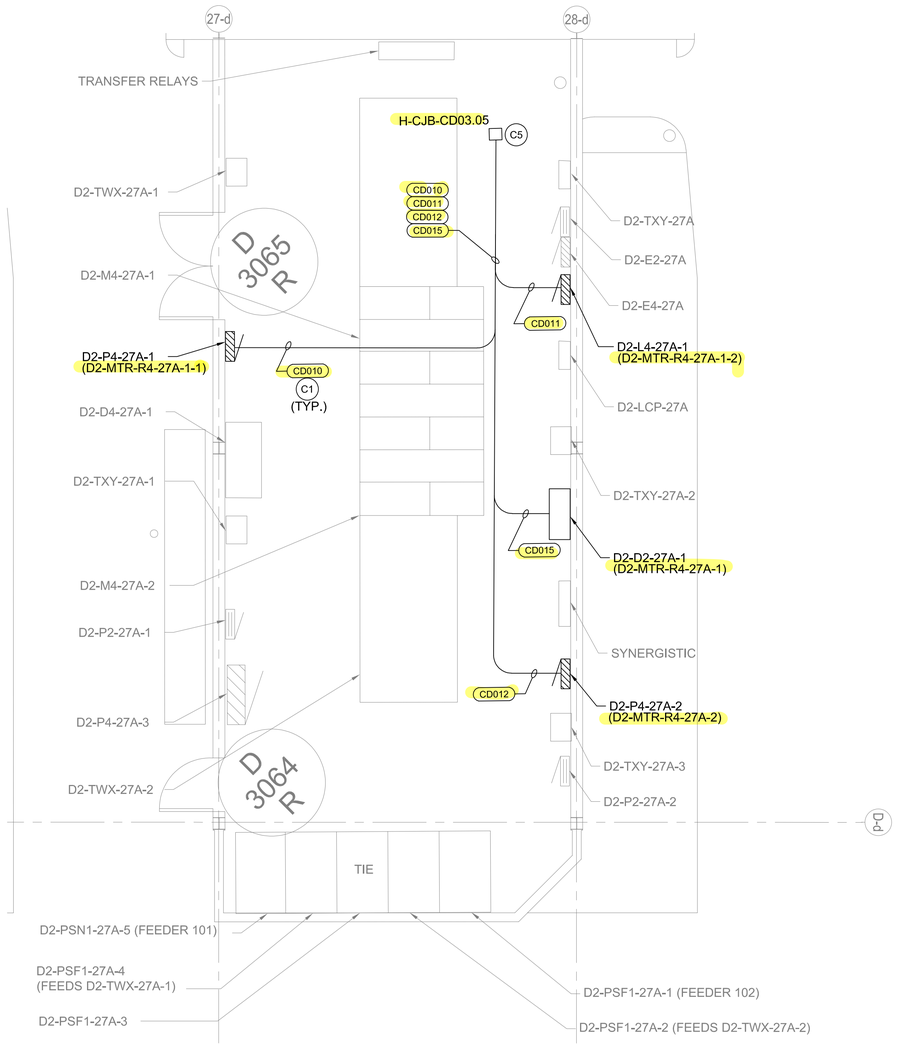
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POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 322

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC322.00





LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

ENLARGED PLAN 1

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

EC322.00

ENLARGED PLAN 2

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

EC322.00

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

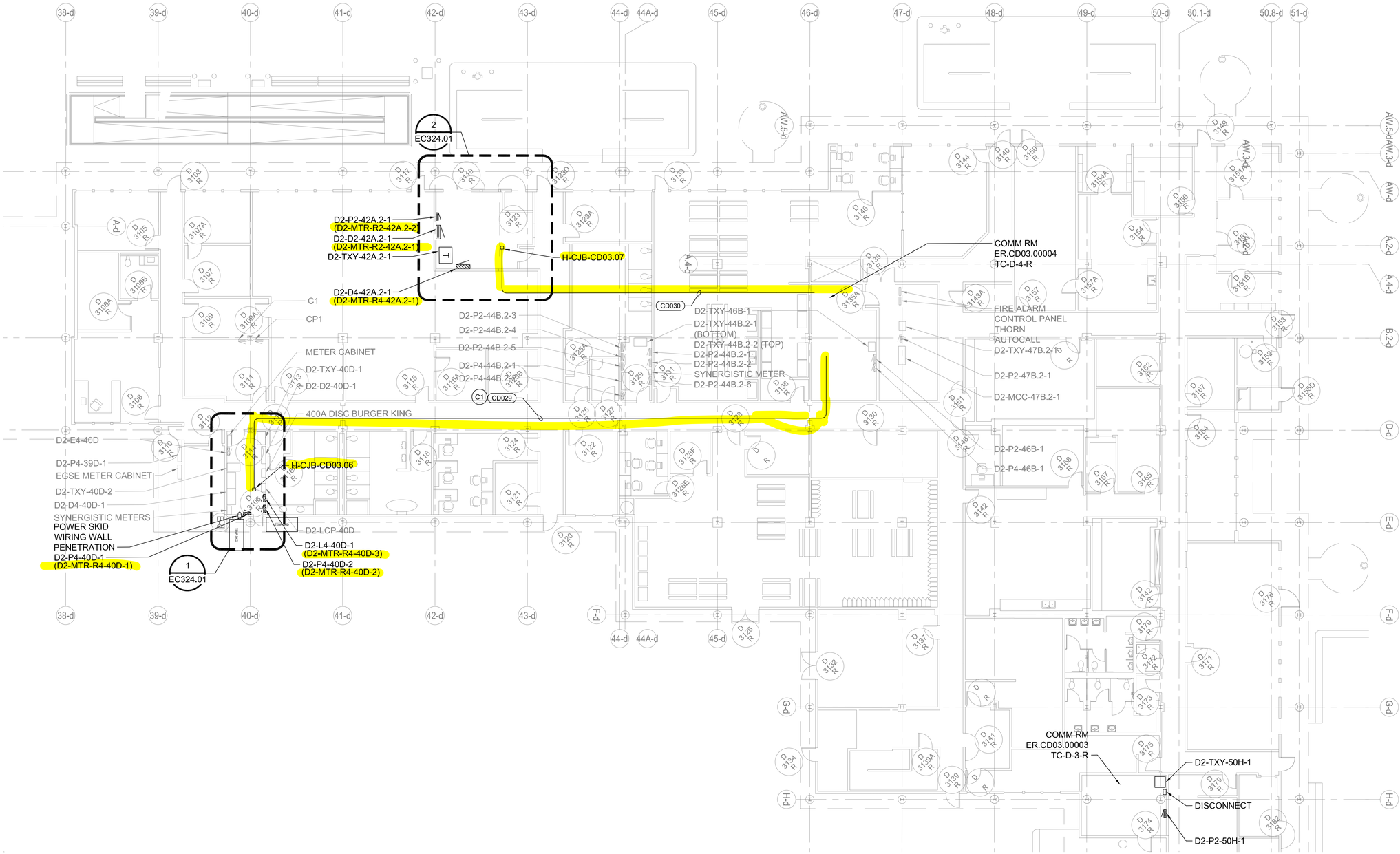
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2023	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 322

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC322.01



GENERAL NOTES

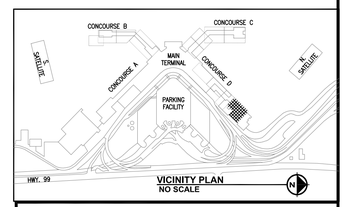
1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT INSTALLATION. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED PATCH CABLE TO CONNECT TO METER.
4. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
5. ABANDONED BRANCH CIRCUIT CONDUCTORS SHALL BE REMOVED BACK TO SOURCE. REMOVE ABANDONED CONDUITS WHERE POSSIBLE. OTHERWISE, THE CONDUITS SHALL BE LABELED AS ABANDONED AT THE PANEL AND AT EACH JUNCTION BOX WHERE ACCESSIBLE. THE CONDUIT SHALL BE CAPPED.
6. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
7. MAIN BREAKERS SHALL INCLUDE AN ELECTRONIC TRIP UNIT WITH ADJUSTABLE TRIP SETTINGS.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale

5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/2024

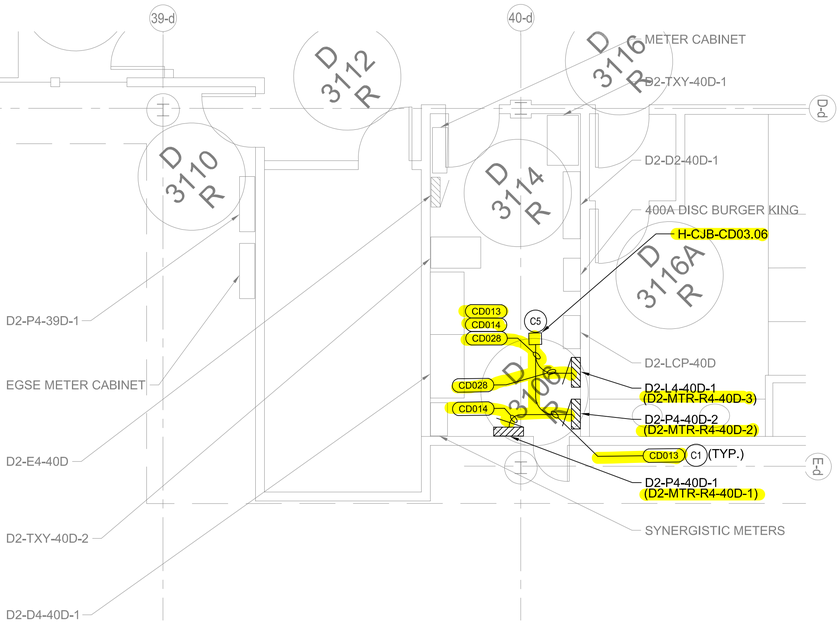
REVISIONS

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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 324

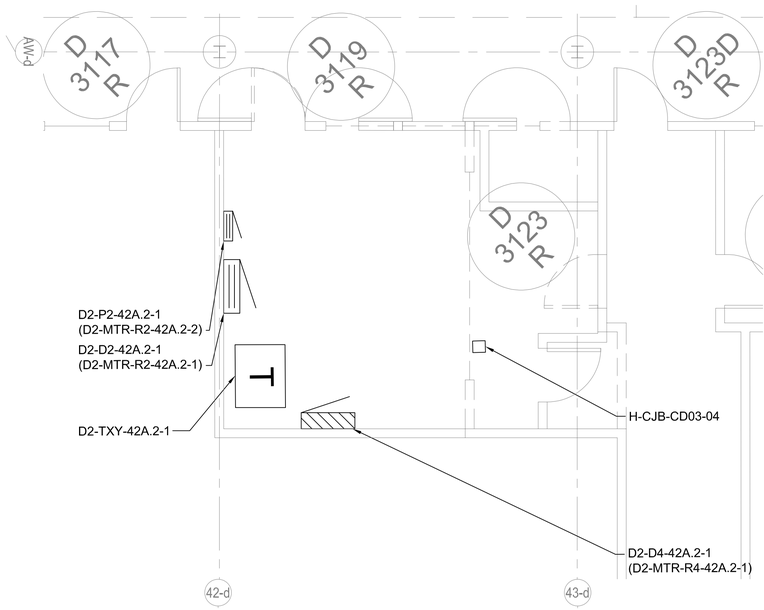
POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC324.00



ENLARGED PLAN

1 EC324.00

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"



ENLARGED PLAN

2 EC324.00

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES AND DETAILS REGARDING CONDUIT INSTALLATION, REFER TO STRUCTURAL SHEETS S001.03, S001.04, S001.05, AND S001.06. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. ALL NEW CONDUIT INSTALLATION AND TEMPORARY LIGHTING/WIRING SHALL BE INSTALLED ABOVE THE MAXIMUM CLEARANCE OF THE PARKING GARAGE AND SHALL BE INSTALLED AS HIGH AS POSSIBLE FOR MAXIMUM CLEARANCES.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

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1/4"=1'-0" 2 0 2 4 6 8 10
Scale Feet

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PROJECT ENGR/ARCH: R. JENTGES
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SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

REVISIONS

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POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 324

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC324.01

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

Send Completed Applications to:	**AVCommittees@portseattle.org**	Received by F&I:	Click or tap to enter a date.

SECTION 1 *(to be completed by POS Project Manager)*

1.1: Acknowledgement:

☒	I have completed an Application for Connection for connection to COMMUNICATION INFRASTRUCTURE	☒	I am using the current Application version [For your convenience, below link is to all applications and instructions] (Applications for Utilities Connections | Port of Seattle (portseattle.org)
☐	This Special System(s) connects to EXISTING Comm Infrastructure and an Application for Connection to COMMUNICATION INFRASTRUCTURE does not apply	☒	I have reviewed the Application for Connection to Special Systems Instructions (Periodically check for updated information and support)

1.2 Project Coding:

Submittal Date:	CIP #:	Project ID:	Activity:	Phase:
6/26/2024	Click or tap here to enter text.	**U00504**	**Concourse Low Voltage System Upgrade**	**90%**

1.3: Project includes Special Systems Hardware and/or Applications involving (check all that apply):

NOTE: For further details of below list, including vendors and system owners, please reference: Special Systems Matrix_2023.xlsx (sharepoint.com)

☐	800 MHz Radio	☐	Access Control System (ACS)	☐	Airport Breach/Duress System
☐	Bag Carousel Information Displays	☐	Baggage Keypad System	☐	BioMetric Air Exit System
☐	Border Entry (APC) System	☐	**Cable Television** (complete Section 1.5)	☐	Cellular Distributed Antenna System
☐	Carbon Monoxide Monitoring System	☐	Common Use Terminal Equip. (CUTE)	☐	Common Use Self-Service (CUSS)
☐	Electric Ground Support Equip. (EGSE)	☐	Fire Alarm System (FAS)	☐	Flight Information Displays (FIDS)
☐	GPS Fleet Tracking -Rental Car Bus Wait Time	☐	Intercom Systems	☐	Intelligent Transportation System (ITS) Roadway Digital Signage
☐	Parking Revenue Control System	☐	Passenger Flow System	–	*Future System (placeholder)*
☐	Perimeter Intrusion Detection Sys. (PIDS)	☐	POS/SEA Digital Displays	☒	Power Monitoring System (EMS)
☐	**Radio Frequency -Inc. FCC Licensed Systems** (complete Section 1.6)	☐	Surface Area Mgmt. System (SAMS)	☐	Satellite Transit System Communications Display
☐	Supervisory Control and Data Acquisition (SCADA)	☐	Terminal Wide Voice Paging (TWVPS)	–	*Future System (placeholder)*
☐	Time to Train System (STS Train Display)	☐	Vendor Electronic Displays	☐	Video Management System (VMS)
☐	Visual Docking Guidance Sys. (Safe Dock)	☐	Smart Bathroom (1 year Pilot)	–	*Future System (placeholder)*
☐	SYSTEM(s) - OTHER or NEW (Or additional notes opportunity)	Click or tap here to enter text.			

1.4: Project Contacts:

Group:	Company:	Representative:	Phone:	Email:
SEA PM:	Port of Seattle	Christina Burdett	(206) 518-4439	burdett.c@portseattle.org
Design Firm:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Systems Design Engineer:	Casne Engineering	Russel Jentges	(425) 629-2943	russel.jentges@casne.com
Tenant Rep.:	N/A	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

1.5: Cable Television Service Details: (if not applicable, skip to section 1.6)

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

Project Name or Tenant Space ID:	Click or tap here to enter text.	Demarcation Panel ID:	Click or tap here to enter text.

Total number of displays:	#?	*Demarcation to display horizontal coax is:*	Home run to each display ☒	RG-6 or greater ☒ Installed by owner ☒

Television Owner/ Tenant Operator	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Any additional contacts to note? (Not listed in section 1.4) Include Project Role, Company, Rep., Phone, and Email per contact:

Click or tap here to enter text.

1.6: Radio Frequency Systems- Including systems requiring FCC License: (if not applicable, skip to Section 2)

RF Service Type:	☐	Cellular	☐	Data	☐	VHF	☐	UHF	☐	Wi-Fi	☐	Broadcast TV antenna	☐	Other (add notes below)
	RF Service Notes:	Click or tap here to enter text.												

NOTE: Wi-Fi Systems for SEA Tenant shall be installed to keep strongest signal within leased footprint. Do NOT use SEA Airport reserved channels of 1, 6, and 11

Wi-Fi MAC address:	Click or tap here to enter text.	Radio type (802.11a, b, or g):	Click or tap here to enter text.

Antenna Install Date Tracking:	Proposed START:	Click or tap to enter a date.	Proposed Completion:	Click or tap to enter a date.	Proposed Cut-over (if req.):	Click or tap to enter a date.

Antenna Location(s) Tracking:	Amt:	Longitude:	Latitude:	Height:	Frequency Range:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Antenna Owner/ Operator	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

Complete items below for FCC licensed antenna systems

FCC Applicant	Company:	Contact Person:	Phone:	Email:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
	Street Address:	City:	State:	Zip Code:
	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.

FCC Approval Date (per Frequency):	Click or tap here to enter text.
Approval End Date (per Frequency):	Click or tap here to enter text.

Frequency Range:	Click or tap here to enter text.	Output Power:	Click or tap here to enter text.

FCC License Type	☐	Permanent	☐	Temporary	Copy of FCC License submitted:	☐	Yes	☐	No

Any additional contacts to note? (Not listed in section 1.4) Include Project Role, Company, Rep., Phone, and Email per contact:

Click or tap here to enter text.

SECTION 2 *(to be completed by Communications Design Engineer)*

APPLICATION FOR CONNECTION TO SPECIAL SYSTEMS
-FORM-

2.1: Acknowledgement:			
☒	I have reviewed the applicable sections of the F&I SEA COMMUNICATION STANDARDS related to this project's communication design. *Periodically check for updated information: Design Standards and Guidelines | Port of Seattle (portseattle.org)	☒	Comm/Special Systems Design Engineer(s) have been coordinating with Architectural, Electrical, Mechanical, and Civil teams for projects where applicable; especially on those that include new/remodeled comm rooms

2.2: Project Design Questionnaire:

YES	NO	N/A	See Notes	Design Engineer has provided design documentation for the following	Complete if "See Notes" box is selected
☒	☐	☐	☐	**SEA Facility CAD Backgrounds** (Include any Outside Plant, building floor, RCP Plans, etc. that detail Special System hardware)	Click or tap here to enter text.
☒	☐	☐	☐	**One-line, System Schematics,** and/or **Riser diagram(s)**	Click or tap here to enter text.
☐	☐	☒	☐	**Elevation Plans** (Including wall field, and rack/cabinet elevations. Provide any details where Special Systems Hardware is to be mounted or installed)	Click or tap here to enter text.
☐	☐	☒	☐	**Radio Frequency Plans** (Including FCC License Submittals and antenna mounting details)	Click or tap here to enter text.
Additional information (optional):				Click or tap here to enter text.	

SECTION 3: APPLICATION STATUS *(to be completed by Facilities and Infrastructure Communication Engineer)*

3.1: Application compliance checklist:

YES	NO	N/A	See Notes	Confirm Items:	Completed if "See Notes" box is selected
☐	☐	☐	☐	Eligible for Expedited Review(s)	Click or tap here to enter text.
☐	☐	☐	☐	Associated *Application for Connection to Comm. Infrastructure* completed	Click or tap here to enter text.
☐	☐	☐	☐	COMM Design drawings included	Click or tap here to enter text.
☐	☐	☐	☐	Includes Utility and/or Licensed Connection (see 1.5 and/or 1.6)	Click or tap here to enter text.

3.2: Application Status:

☐ **Approved** ☐ **Approved as Noted** (see below) ☐ **Revise and Resubmit** ☐ **Rejected**

Notes: Click or tap here to enter text.

Attend Special Systems Design Review at:	30%	60%	90%	100%	Other:	1st Application Received at %:	Choose an item.
	☐	☐	☐	☐	☐ Click or tap here to enter text.		

Facilities and Infrastructure Communication Reviewer:

Date: Click or tap to enter a date.

CONCOURSE D POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH IN FEET - ENGINEER	ESTIMATED LENGTH IN FEET - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
D200	NOT USED											
D201	D2-D2-27A-1	D2-TXY-27A-2	500	510	RETAINED 3"C. REUSED	2	4-250 kcmil	#2		15	0.18	EP529
D202	D3-P2-A35-1	D2-D2-27A-1	200	200	RETAINED 3" C. REUSED	1	4#3/0	#6		194	2.44	EP529
D203	D3-P2-A17-1	D2-D2-27A-1	200	200	RETAINED 2"C. REUSED	1	4#3/0	#6		90	1.13	EP529
D204	D2-D2-42A.2-1	D2-TXY-42A.2-1	1200	1240	3" GRC	3	4-400 kcmil	#1/0	7.5		0.11	E526
D205	D2-P2-42A.2-1	D2-D2-42A.2-1	225	230	2 1/2" GRC	1	4#4/0	#4	7.5		0.09	EP526
D206	NOT USED											
D207	NOT USED											
D400	D2-D4-6C-1	D2-M4-27A-2	800	760	4"	2	3-600 kcmil	#1/0		NEW ADDED FEEDER LENGTH FROM D2-D4-7C-1 JUCTION BOX TO NEW PANEL D2-D4-6C-1 IS **47 FEET.** TOTAL LENGTH OF EXSITING FEEDER FROM UPSTREAM PANEL TO JUNCTION BOX IS 550 FEET.	2.95	EP526
D401	D2-L4-20A-1	D2-D4-20A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		33	0.17	EP526
D402	D2-P4-20A-1	D2-D4-20A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		25	0.13	EP526
D403	D2-L4-11B-1	D2-D4-11B-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		40	0.21	EP526
D404	D2-P4-11B-1	D2-D4-11B-1	400	380	4"		4-500 kcmil	#3		45	0.26	EP526
D405	D2-P4-12B-1	D2-D4-11B-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		42	0.22	EP526
D406	D2-P4-46B-1	D2-P4-44B.2-1	100	95	1 1/2"C.		4#2	#6	78		0.45	E527
D407	D2-TXY-28A-1	D2-P4-12B-1	20	30	RETAINED 3/4" FLEX CONDUIT REUSED		3#10	#10		395	2.38	EP528
D408	D2-TXY-12B-1	D2-P4-12B-1	20	30	RETAINED 1/2" FLEX CONDUIT REUSED		3#10	#10		18	0.11	EP528
D409	D2-P4-R9Q-1	D2-D4-11B-1	400	380	RETAINED 2 SETS OF 2 1/2"C. REUSED	2	4#3/0 kcmil	#6		245	1.34	E528
D410	D2-TXY-R9Q-1	D2-P4-R9Q-1	225	230	RETAINED 2" FLEX CONDUIT REUSED		3#4/0	#4		22	0.092	EP528
D411	D2-P4-20A-2	D2-D4-20A-1	400	380	RETAINED 4"C. REUSED		4-500 kcmil	#3		40	0.23	EP528
D412	D2-TXY-20A-3	D2-P4-20A-2	110	115	RETAINED 1 1/4" RIGID FLEX CONDUIT REUSED		3#2	#6		25	0.16	EP528
D413	NOT USED											
D414	NOT USED											
D415	NOT USED											
D416	NOT USED											
D418	D2-P4-40D-2	D2-D4-40D-1	600	620	RETAINED 3"C. REUSED	2	4-350 kcmil	#1		30	0.15	EP527
D419	D2-P4-40D-1	D2-D4-40D-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		30	0.16	EP527
D420	D2-L4-40D-1	D2-D4-40D-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		30	0.16	EP527
D421	D2-P4-27A-1	D2-D4-27A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		30	0.16	EP527
D422	D2-P4-27A-2	D2-D4-27A-1	400	380	RETAINED 4"C. REUSED		4-500 kcmil	#3		60	0.35	EP527
D423	D2-L4-27A-1	D2-D4-27A-1	225	230	RETAINED 2 1/2"C. REUSED		4#4/0	#4		60	0.31	EP527
D424	D2-TXY-27A-3	D2-P4-27A-2	70	70	RETAINED 1 1/2" UNDERGROUND CONDUIT REUSED		3#4	#8		20	0.12	EP529
D425	D2-D4-42A.2-1	D2-M4-27A-1	1200	1240	3" GRC	4	4-350 kcmil	3/0	373		1.92	EP526
D426	D2-TXY-42A.2-1	D2-D4-42A.2-1	450	460	2 1/2" GRC	2	3#4/0	#2	7.5		0.031	EP526
D427	NOT USED											
D428	NOT USED											
D429	NOT USED											

EMERGENCY POWER FEEDER SCHEDULE

FEEDER #	TO	FROM	PROTECTION RATING (A)	AMPACITY (A)	CONDUIT SIZE	# OF PARALLEL RUNS	CONDUCTOR	GND	ESTIMATED LENGTH - ENGINEER	ACTUAL LENGTH - CONTRACTOR	% VOLTAGE DROP	ONE LINE SHEET #
E200	B2-E3-12E-1	B2-ETXZ-12E-1	50	55	3/4"	1	3 - #6	#8	10'		0.2	EP511.00
E201	B2-E3-12E-2	B2-ETXZ-12E-2	50	55	RETAINED 3/4" REUSED	1	3 - #6	#8	10'		0.2	EP511.00
E400	C1-E4-38D-1	C2-E4-39/D-1	100	115	RETAINED 2" REUSED	1	4 - #2	#8	45'		0.3	EP519.00
E401	B1-E4-G53	B1-E4-D/7-1	50	55	RETAINED 1-1/4" REUSED	1	4 - #6	#10	50'		0.4	EP511.00
E402	B2-E4-12E	B2-E4-17G	60	70	1-1/4"	1	4 - #4	#10	150'		0.8	EP511.00
E403	B2-ETXZ-12E-1	B2-E4-12E	30	30	3/4"	1	2 - #10	#10	10'		0.1	EP511.00
E404	B2-ETXZ-12E-2	B2-E4-12E	30	30	RETAINED 1/2" FLEX REUSED	1	2 - #10	#10	50'		0.6	EP511.00

CONCOURSE D COMMUNICATIONS FEEDER SCHEDULE

FEEDER #	TO (METER)	TO (ELEC PANEL)	TO (ELEC ROOM)	FROM	FROM (ROOM)	CONDUIT SIZE	CONDUCTOR	ESTIMATED LENGTH - IN FEET - ENGINEER	ACTUAL LENGTH - CONTRACTOR	ONE LINE SHEET #
CD001	D2-MTR-R4-12B-1	D2-P4-12B-1	D-3022-R	H-CB-CD03.03	D-3022-R	3/4"	1 CAT 6	78		EC526.00
CD002	D2-MTR-R4-11B-1	D2-P4-11B-1	D-3022-R	H-CB-CD03.03	D-3022-R	3/4"	1 CAT 6	15		EC526.00
CD003	D2-MTR-R4-11B-1-2	D2-L4-11B-1	D-3022-R	H-CB-CD03.03	D-3022-R	3/4"	1 CAT 6	10		EC526.00
CD004	D2-MTR-R4-20A-1-1	D2-P4-20A-1	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	25		EC527.00
CD005	D2-MTR-R4-20A-1-2	D2-L4-20A-1	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	20		EC527.00
CD006	D2-MTR-R4-6C-1	D2-D4-6C-1	D-3008-R	H-CB-CD03.02	D-3019-R	3/4"	1 CAT 6	10		EC526.00
CD007	D2-MTR-R2-20A-1	D2-D2-20A-1	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	20		EC527.00
CD008	D2-MTR-R4-20A-2	D2-P4-20A-2	D-3049-R	H-CB-CD03.04	D-3049-R	3/4"	1 CAT 6	25		EC527.00
CD009	D2-MTR-R4-R9Q-1	D2-P4-R9Q-1	RQ9	H-CJB-CD03.02	D-3008-R	3/4"	1 CAT 6	85		EC526.00
CD010	D2-MTR-R4-27A-1-1	D2-P4-27A-1	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	35		EC527.00
CD011	D2-MTR-R4-27A-1-2	D2-L4-27A-1	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	16		EC527.00
CD012	D2-MTR-R4-27A-2	D2-P4-27A-2	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	38		EC527.00
CD013	D2-MTR-R4-40D-2	D2-P4-40D-2	D-3106-R	H-CJB-CD03.06	D-3106-R	3/4"	1 CAT 6	11		EC528.00
CD014	D2-MTR-R4-40D-1	D2-P4-40D-1	D-3106-R	H-CJB-CD03.06	D-3106-R	3/4"	1 CAT 6	13		EC528.00
CD015	D2-MTR-R2-27A-1	D2-D2-27A-1	D-3065-R	H-CJB-CD03.05	D-3065-R	3/4"	1 CAT 6	28		EC527.00
CD016	D2-MTR-R4-42A.2-1	D2-D4-42A.2-1	D-3119-R	H-CJB-CD03.07	D-3119-R	3/4"	1 CAT 6	18		EC528.00
CD017	NOT USED									
CD018	NOT USED									
CD019	NOT USED									
CD020	D2-MTR-R2-42A.2-1	D2-D2-42A.2-1	D-3119-R	H-CJB-CD03.07	D-3119-R	3/4"	1 CAT 6	12		EC528.00
CD021	D2-MTR-R2-42A.2-2	D2-P2-42A.2-1	D-3119-R	H-CJB-CD03.07	D-3119-R	3/4"	1 CAT 6	9		EC528.00
CD022	NOT USED									
CD023	NOT USED									
CD024	H-CJB.CD03.03	N/A	D-3022-R	XX	D-3019-R	1"	5 CAT 6	15		EC526.00
CD025	H-CJB.CD03.02	N/A	D-3008-R	H-CJB.CD03.03	D-3022-R	1"	2 CAT 6	120		EC526.00
CD026	H-CJB.CD03.04	N/A	D-3049-R	H-CJB.CD03.05	D-3065-R	1"	4 CAT 6	165		EC526.00
CD027	H-CJB.CD03.05	N/A	D-3065-R	H-CJB.CD03.05	D-3065-R	2"	8 CAT 6	15		EC527.00
CD028	D2-MTR-R4-40D-3	D2-L4-40D-1	D-3106-R	H-CJB-CD03.06	D-3106-R	3/4"	1 CAT 6	10		EC528.00
CD029	H-CJB.CD03.06	N/A	D-3106-R	XX	D-3135A-R	1"	3 CAT 6	170		EC528.00
CD030	H-CJB.CD03.07	N/A	D-3119-R	XX	D-3135A-R	1"	3 CAT 6	75		EC528.00

GENERAL NOTES

1. POWER CONDUITS 2" AND LARGER SHALL BE GRS.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C.CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

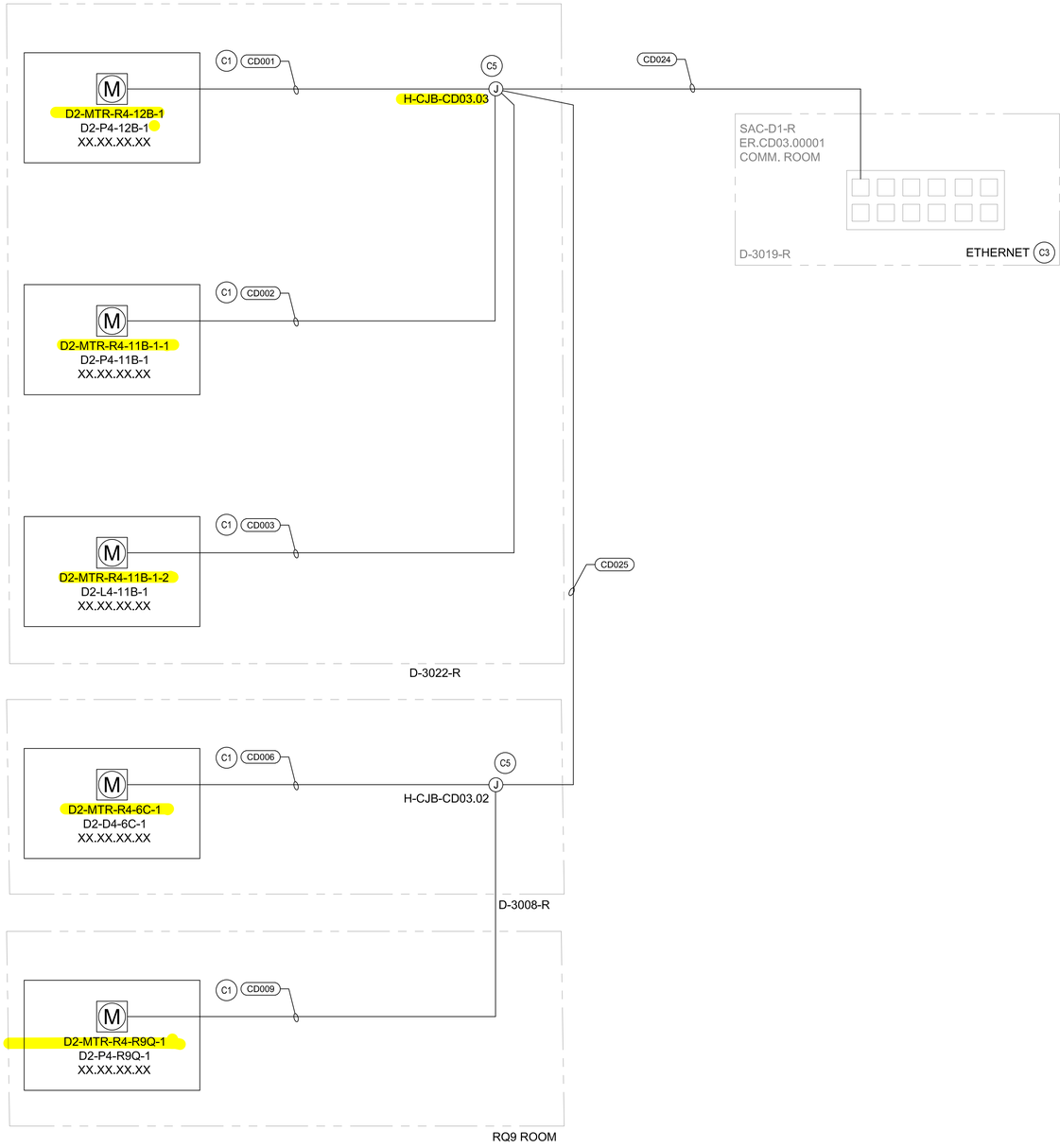
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: FEEDER SCHEDULES - CONCOURSE D & EMERGENCY

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 E010.02



DETAIL

METERING NETWORK
RISER DIAGRAM - CONCOURSE D
SCALE: NTS

1
EC526.00

LEGEND

REFERENCE DRAWINGS

1. STIA2412E400 SERIES- NETWORK/METERING DETAILS.
2. STIA2412E010.00 - CONDUIT FEEDER SCHEDULE - COMMUNICATION.

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C3) INSTALL CISCO CATALYST 24 PORT NETWORK SWITCH IN NETWORK ROOM FOR METERING. NETWORK SWITCHES TO BE PROVIDED BY PORT.

(C5) PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

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1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER

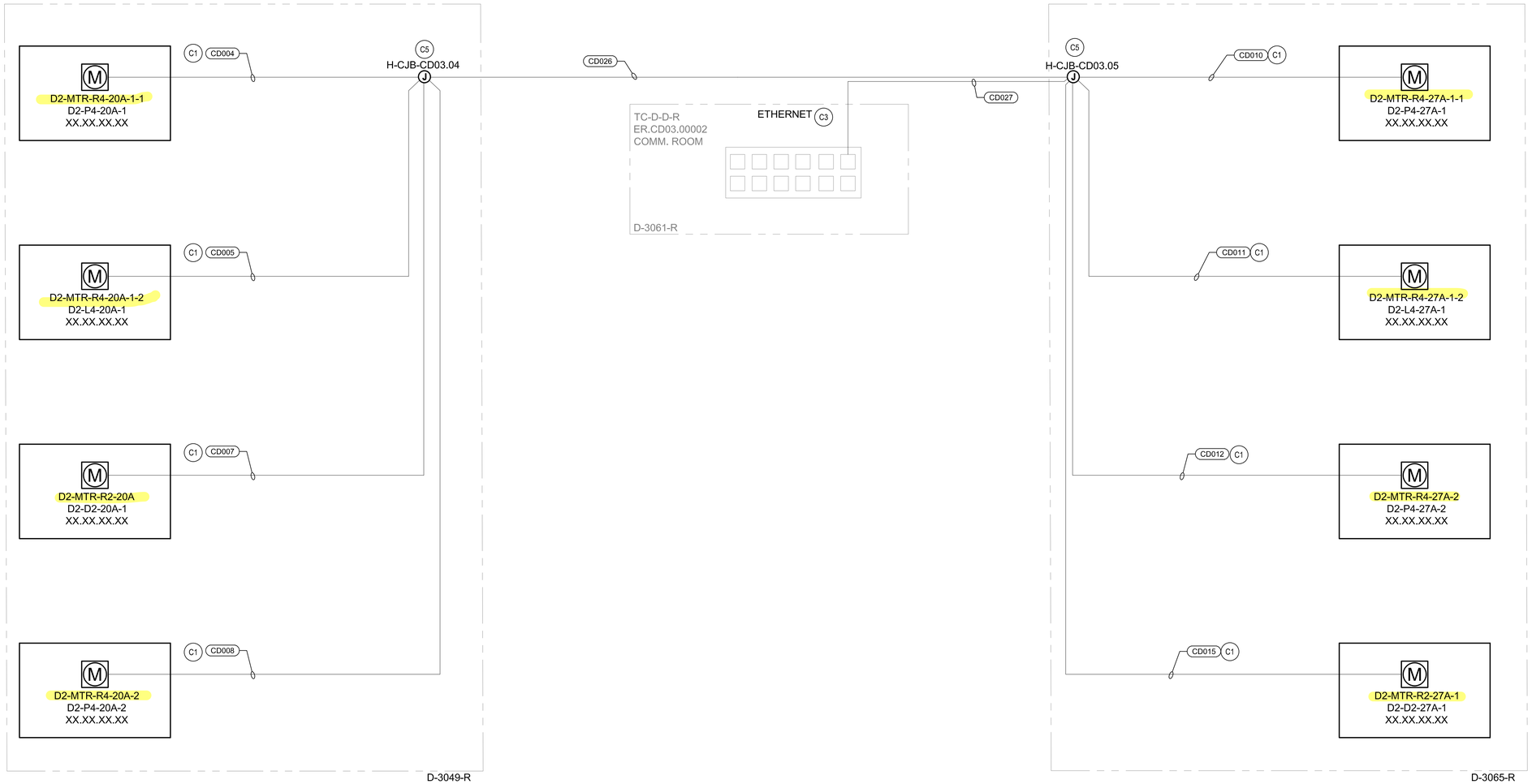
REVISIONS

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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK RISER DIAGRAM - CONCOURSE D

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC526.00



BAGGAGE LEVEL

DETAIL 1
METERING NETWORK
RISER DIAGRAM - CONCOURSE D
SCALE: NTS
EC527.00

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

LEGEND

REFERENCE DRAWINGS

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2. STIA2412E010.00 - CONDUIT FEEDER SCHEDULE - COMMUNICATION

GENERAL NOTES

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CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 01/31/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — PRELIMINARY — 35276 — REGISTERED PROFESSIONAL ENGINEER

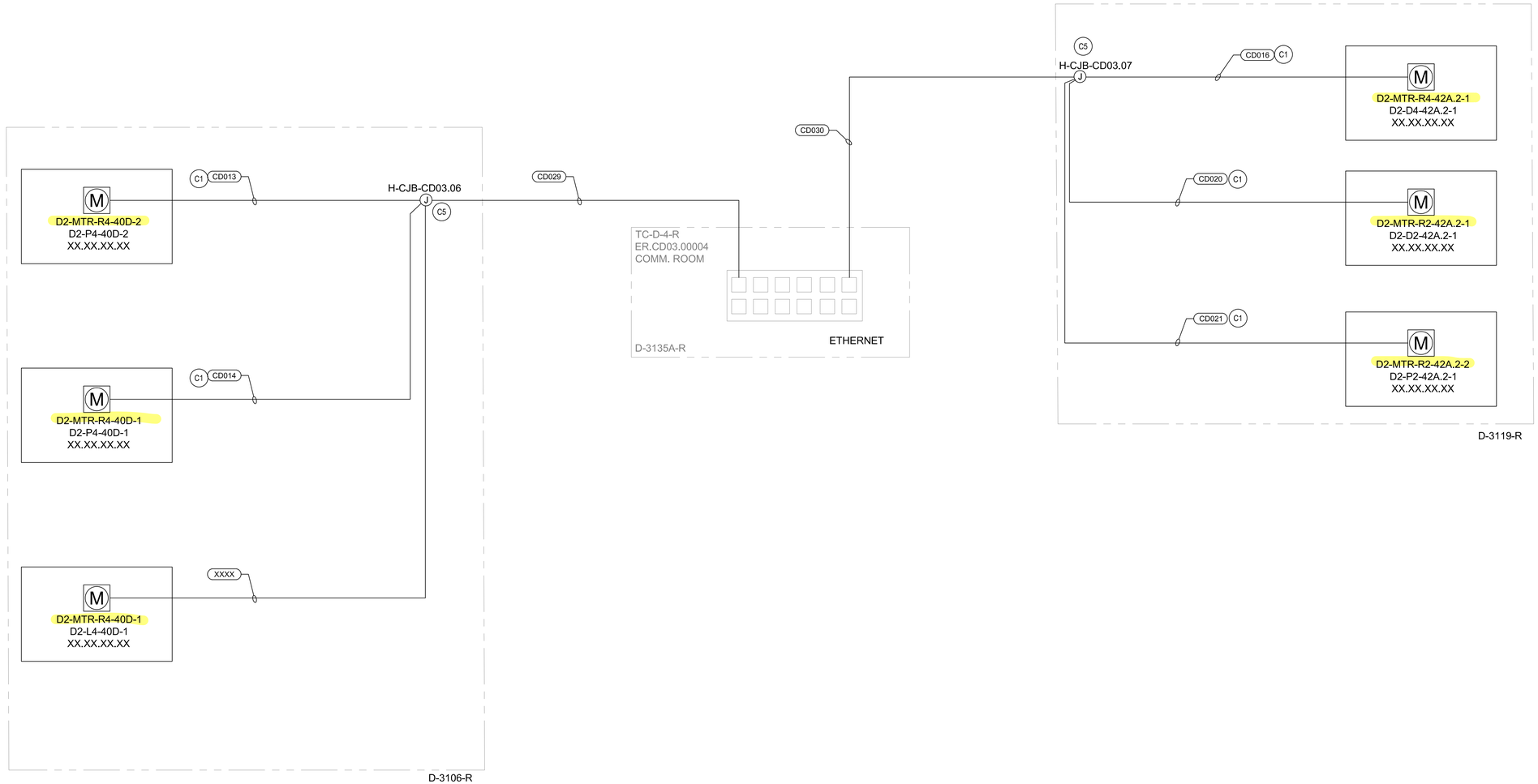
REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
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POS PROJECT MANAGER: E. CONLEY
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE D

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC527.00



LEGEND

REFERENCE DRAWINGS

1. STIA2412E400 SERIES- NETWORK/METERING DETAILS.
2. STIA2412E010.00 - CONDUIT FEEDER SCHEDULE - COMMUNICATION

GENERAL NOTES

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5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

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(C5) PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

DETAIL

1
EC528.00

METERING NETWORK
RISER DIAGRAM - CONCOURSE D
SCALE: NTS

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR./ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE
STATE OF WASHINGTON
35276
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS

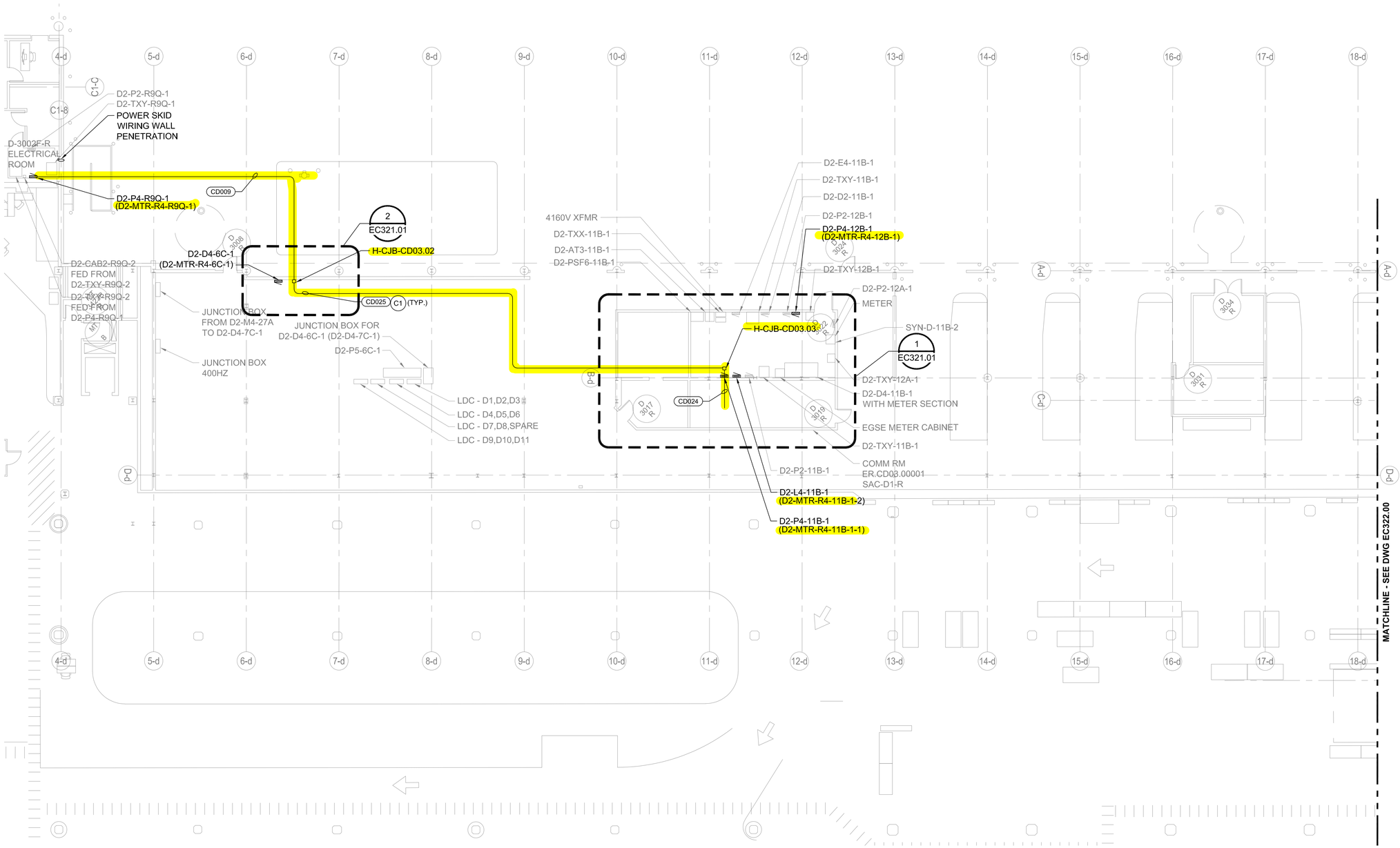
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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: METERING NETWORK
RISER DIAGRAM - CONCOURSE D

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC528.00



LEGEND

GENERAL NOTES

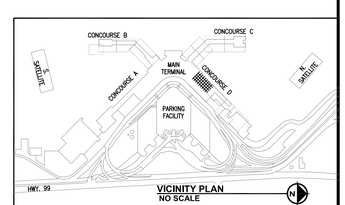
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KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

ECASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLSION
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

REVISIONS

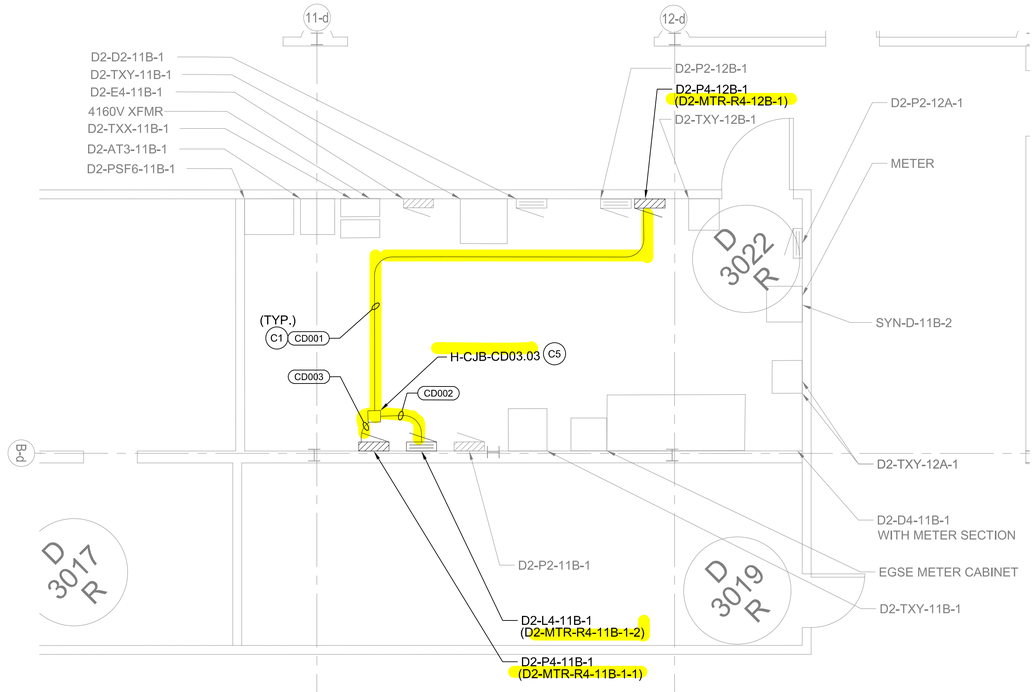
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2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 321

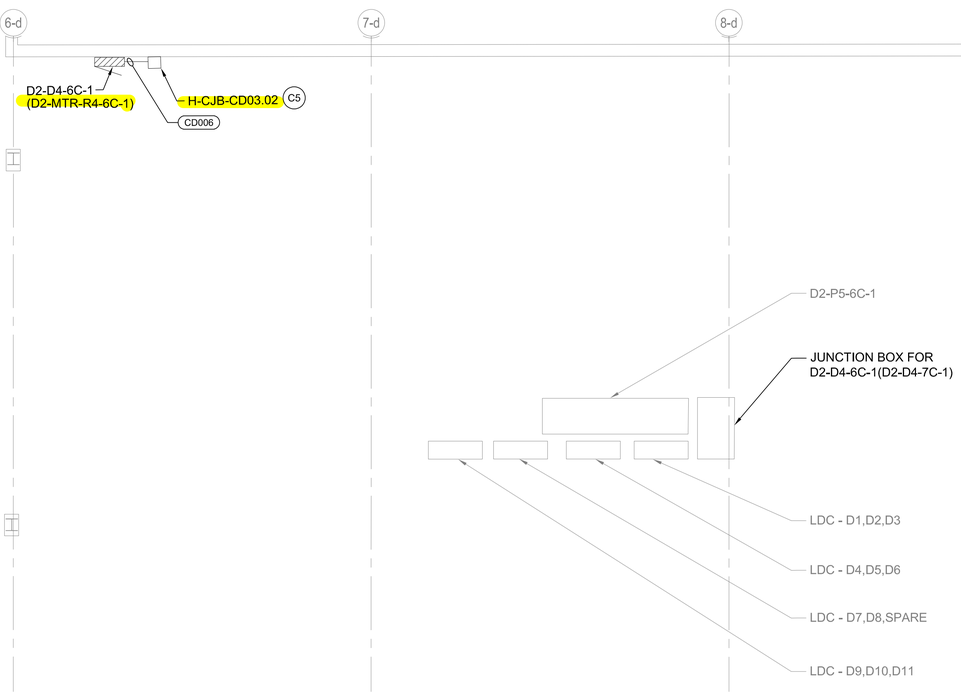
POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC321.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

1 / EC321.00



ENLARGED PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

2 / EC321.00

LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 01/31/2023
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2023	RJ	60% SUBMITTAL						

POS PROJECT MANAGER: E. CONLEY
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 321

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC321.01

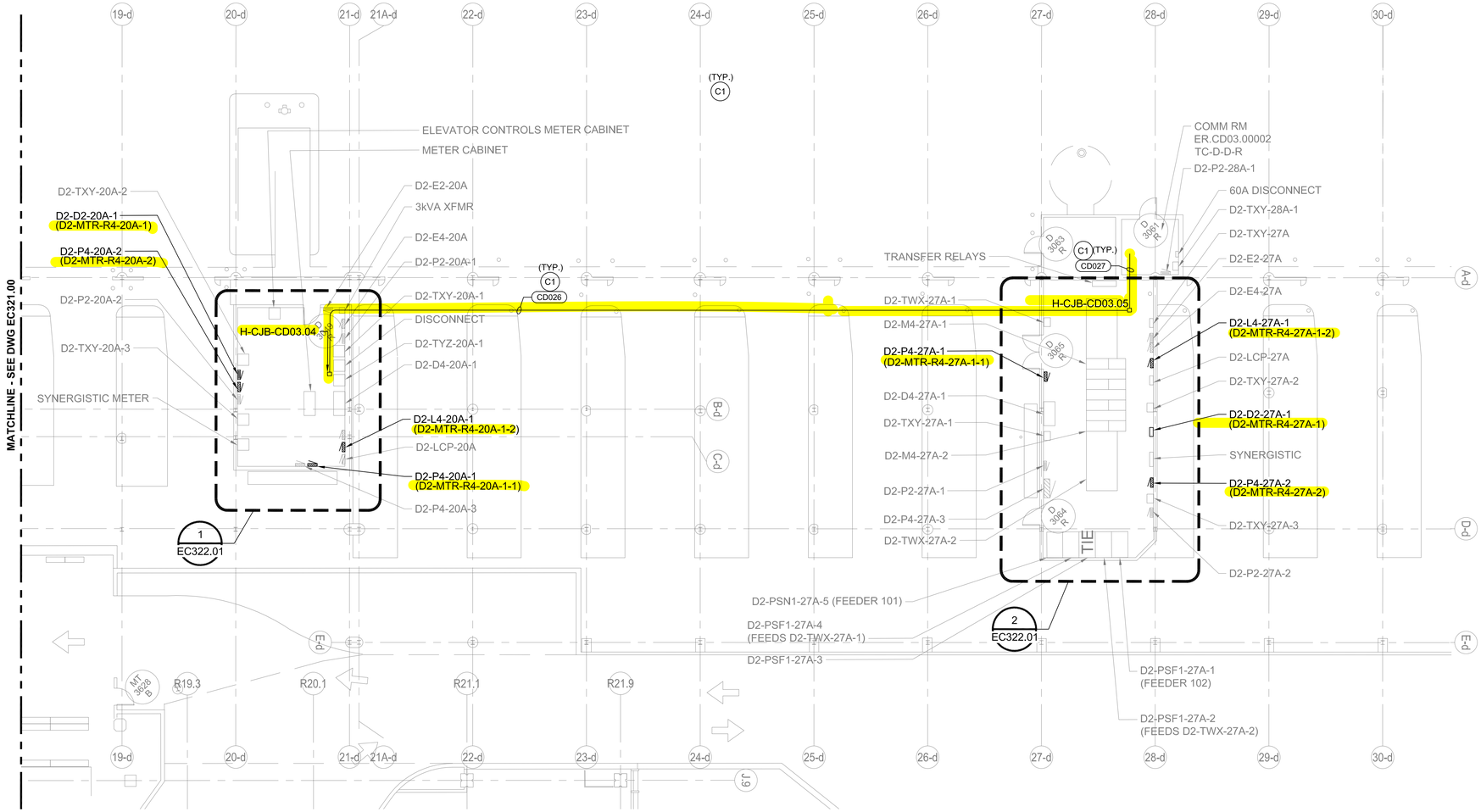
LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. PULLBOXES SHALL BE INSTALLED FOR CONDUIT RUNS AFTER EVERY 100' OF LENGTH OR AFTER EVERY 180 DEGREES OF BEND PER SPECIFICATION 27.05.28.

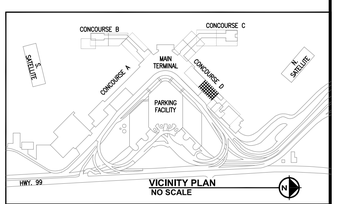
KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.



PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale 5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

ECASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH:	R. JENTGES
DESIGNER:	A. FITCH, M. NAMAZI
DRAWN BY:	C. ALLISON
SCALE:	AS NOTED
DATE:	06/26/2024
CHECKED BY:	C. CLUTE
CHECKED/APPROVED BY:	

CURTIS E. CLUTE STATE OF WASHINGTON 35276 REGISTERED PROFESSIONAL ENGINEER 06/26/24

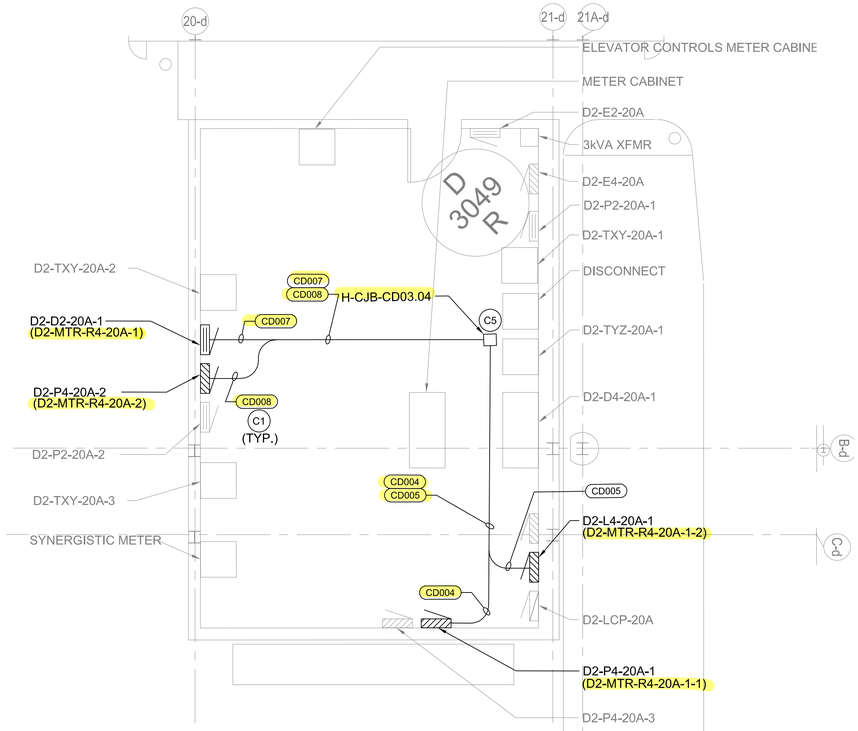
REVISIONS

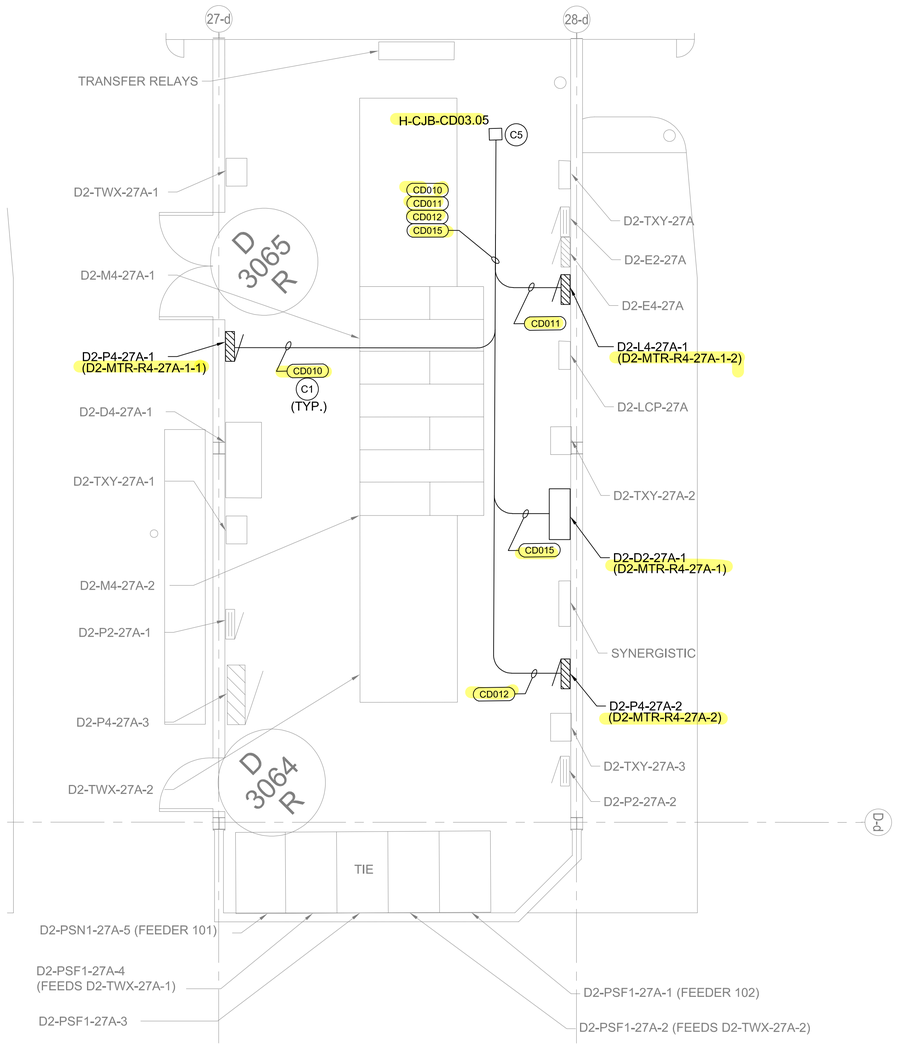
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	09/29/2023	RJ	30% SUBMITTAL						
2	01/31/2024	RJ	60% SUBMITTAL						
3	06/26/2024	RJ	ISSUE FOR PERMIT						

POS PROJECT MANAGER:	C. BURDETT
POS PROJECT ENGINEER:	
POS DESIGN ENGINEER:	
POS DRAFTER:	
POS SCALE:	
POS DATE:	
POS CHECKED/APPROVED BY:	

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: **CONCOURSE LOW VOLTAGE SYSTEM UPGRADE**
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 322

POS WORK PROJECT NUMBER	U00504
CONSULTANT'S PROJECT NUMBER	221003-006.001
POS PROJECT TRACKING NUMBER	STIA-2411 EC322.00





LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED COMMSCOPE SYSTIMAX CAT 6 PATCH CABLE TO CONNECT TO METER.
4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
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KEYED NOTES

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(C5) PROVIDE AND INSTALL CONTROL JUNCTION BOX.

ENLARGED PLAN 1

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

EC322.00

ENLARGED PLAN 2

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

EC322.00

CALL 2 DAYS
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1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH/M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

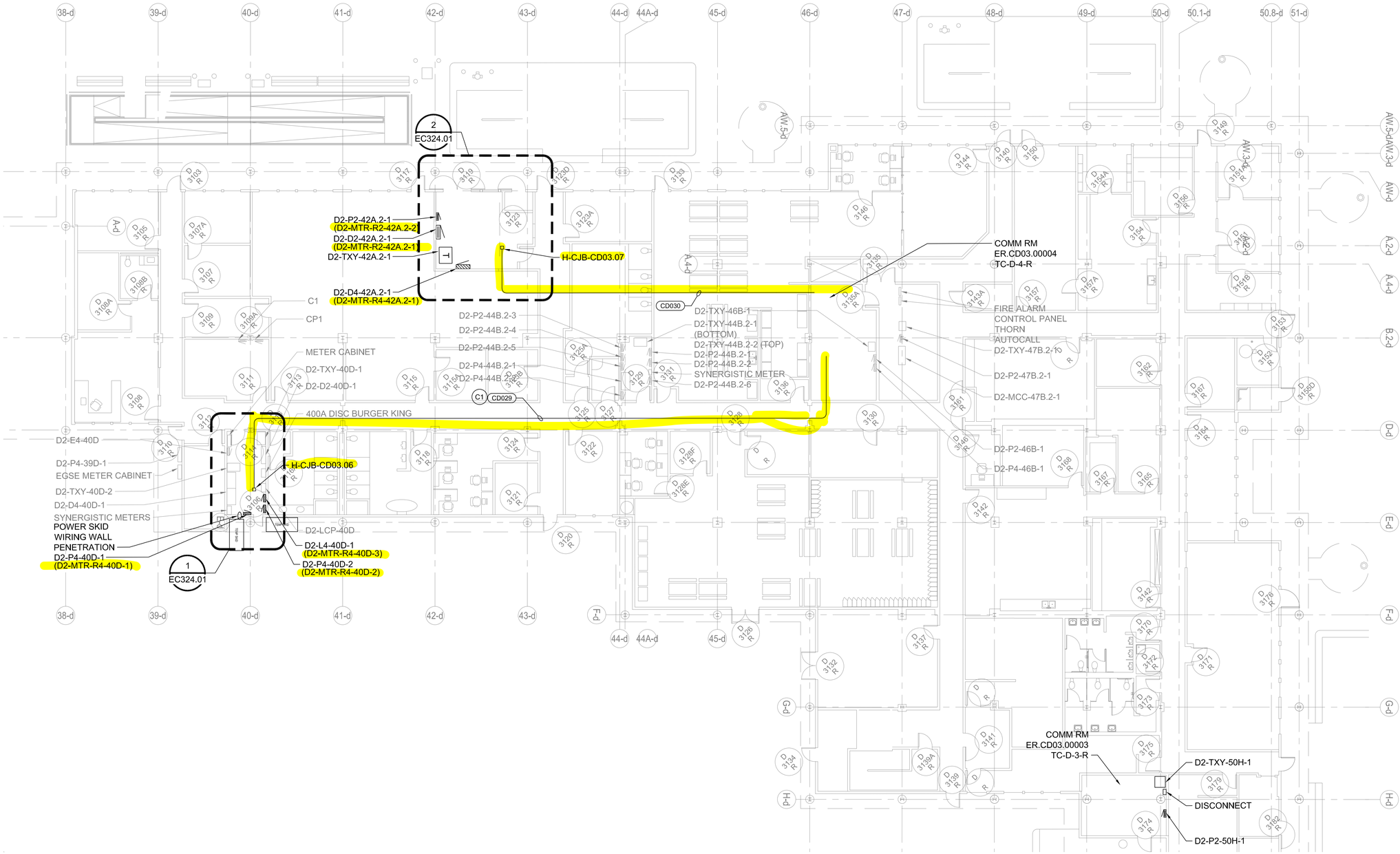
REVISIONS

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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 322

POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC322.01



GENERAL NOTES

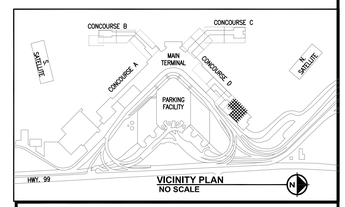
1. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT INSTALLATION. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13.
3. AT EACH METER, INSTALL COMMSCOPE 107984015 M101 TYPE SURFACE MOUNT SINGLE PORT BOX, TERMINATE FIELD CABLE TO BOX, AND USE PREFABRICATED PATCH CABLE TO CONNECT TO METER.
4. FOR GENERAL STRUCTURAL NOTES REGARDING CONDUIT AND EQUIPMENT INSTALLATION REFER TO STRUCTURAL SHEETS S001.04, S001.05, S001.06, S001.07, S001.08, S001.09 AND S001.10. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
5. ABANDONED BRANCH CIRCUIT CONDUCTORS SHALL BE REMOVED BACK TO SOURCE. REMOVE ABANDONED CONDUITS WHERE POSSIBLE. OTHERWISE, THE CONDUITS SHALL BE LABELED AS ABANDONED AT THE PANEL AND AT EACH JUNCTION BOX WHERE ACCESSIBLE. THE CONDUIT SHALL BE CAPPED.
6. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
7. MAIN BREAKERS SHALL INCLUDE AN ELECTRONIC TRIP UNIT WITH ADJUSTABLE TRIP SETTINGS.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

PLAN

COMMUNICATION PLAN
BAGGAGE LEVEL
SCALE: 3/32" = 1'-0"



3/32"=1'-0" Scale

5 0 5 10 15 20 25 30 Feet

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/2024

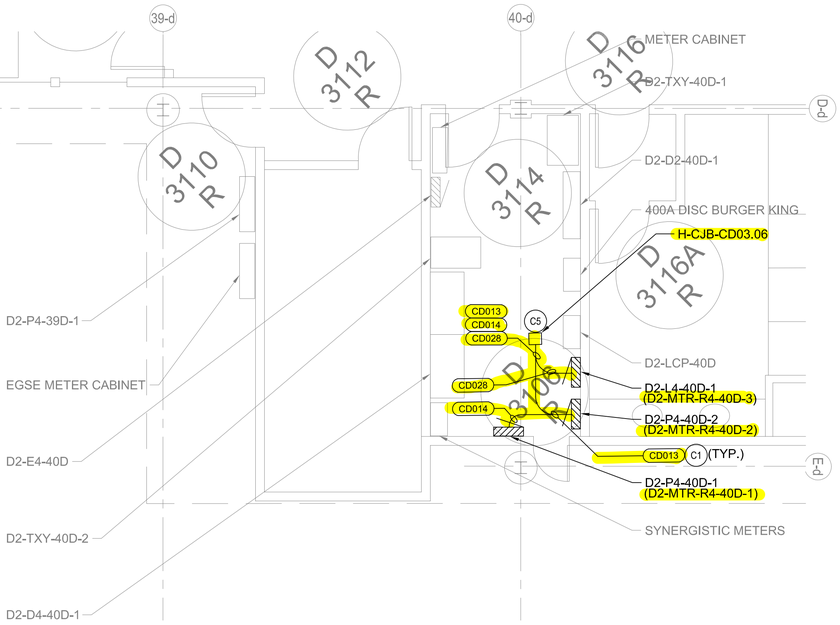
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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT NAME: CONCOURSE LOW VOLTAGE SYSTEM UPGRADE
SHEET TITLE: COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 324

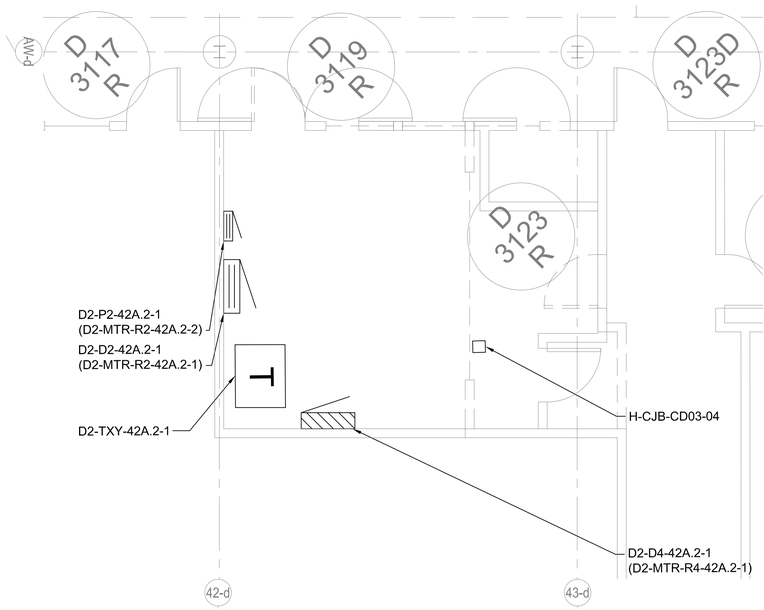
POS WORK PROJECT NUMBER: U00504
CONSULTANT'S PROJECT NUMBER: 221003-006.001
POS PROJECT TRACKING NUMBER: STIA-2411 EC324.00



ENLARGED PLAN

1 EC324.00

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"



ENLARGED PLAN

2 EC324.00

COMMUNICATION PLAN
BAGGAGE LEVEL
CONCOURSE D
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTES

1. FOR GENERAL STRUCTURAL NOTES AND DETAILS REGARDING CONDUIT INSTALLATION, REFER TO STRUCTURAL SHEETS S001.03, S001.04, S001.05, AND S001.06. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.
2. PROVIDE AND INSTALL LABELS ON ALL COMMUNICATION CABLES PER SPECIFICATION SECTION 27.05.53.13
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4. GENERAL CONTRACTOR TO FIELD COORDINATE REPLACEMENT OR REINSTALLATION OF LIGHTS, SIGNS, SENSORS AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT THAT WERE REMOVED DURING CONSTRUCTION.
5. ALL NEW CONDUIT INSTALLATION AND TEMPORARY LIGHTING/WIRING SHALL BE INSTALLED ABOVE THE MAXIMUM CLEARANCE OF THE PARKING GARAGE AND SHALL BE INSTALLED AS HIGH AS POSSIBLE FOR MAXIMUM CLEARANCES.

KEYED NOTES

(C1) PROVIDE AND INSTALL CONDUIT, INNERDUCT AND COMMUNICATIONS CONDUCTORS. REFER TO COMMUNICATIONS CONDUIT AND CONDUCTOR SCHEDULE SHEET E010.00.

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1/4"=1'-0" 2 0 2 4 6 8 10
Scale Feet

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BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM

PROJECT ENGR/ARCH: R. JENTGES
DESIGNER: A. FITCH, M. NAMAZI
DRAWN BY: C. ALLISON
SCALE: AS NOTED
DATE: 06/26/2024
CHECKED BY: C. CLUTE
CHECKED/APPROVED BY:

CURTIS E. CLUTE — STATE OF WASHINGTON — 35276 — REGISTERED PROFESSIONAL ENGINEER — 06/26/24

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
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POS PROJECT MANAGER: C. BURDETT
POS PROJECT ENGINEER:
POS DESIGN ENGINEER:
POS DRAFTER:
POS SCALE:
POS DATE:
POS CHECKED/APPROVED BY:

Port of Seattle
PROJECT NAME: SEA-TAC INTERNATIONAL AIRPORT
CONCOURSE LOW VOLTAGE SYSTEM UPGRADE

SHEET TITLE: ENLARGED COMMUNICATION PLAN - CONCOURSE D - BAGGAGE LEVEL - SECTOR 324

POS WORK PROJECT NUMBER: **U00504**
CONSULTANT'S PROJECT NUMBER: **221003-006.001**
POS PROJECT TRACKING NUMBER: **STIA-2411** EC324.01