

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

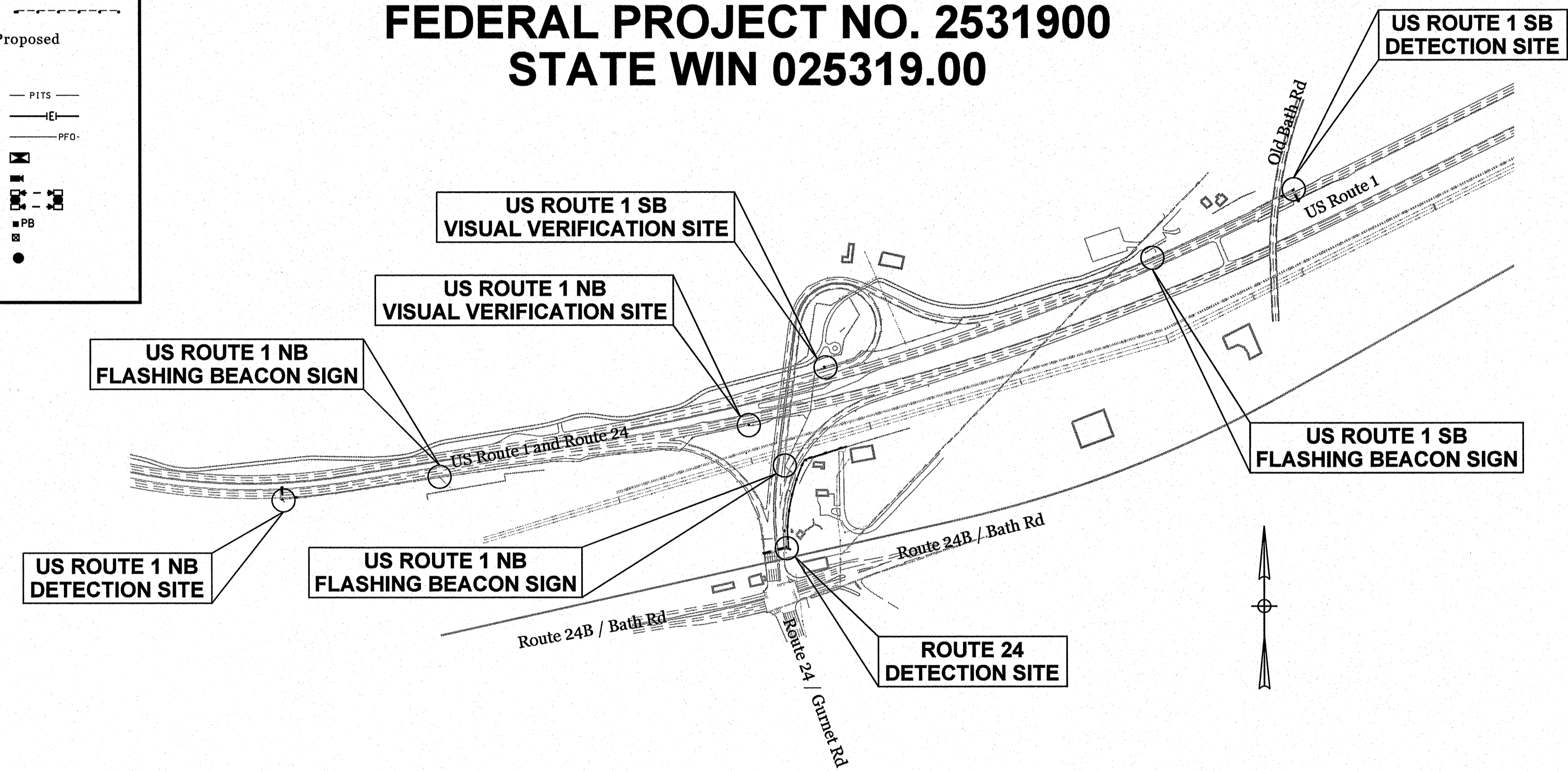


BRUNSWICK

OVERHEIGHT VEHICLE DETECTION SYSTEM FEDERAL PROJECT NO. 2531900 STATE WIN 025319.00

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
General Notes	2
Details	3
Equipment Plans	4-9
Communication Diagrams	10

PLAN LEGEND			
Town, County, State	Centerline-Existing	Centerline-Proposed	10+00
Property Lines	Travelway-Existing	Travelway-Proposed	
R/W Lines-Existing	Railroad	Catch Basins	Existing Proposed
R/W Lines-Proposed	Culvert-Existing	Manholes	Existing Proposed
Culvert-Proposed	Curbing	Proposed Underdrain	
Type 1	Type 3	Proposed Ditch	
Type 5	Outline of Bodies of Water	Existing Ditch	
Exposed Bedrock	Buildings	Utility Poles	Existing Proposed
Trees	Tree Line	Fire Hydrants	Existing Proposed
Clearing Limit Line	Boring	Existing Water Line	
Existing Overhead Line		Existing San. Sewer	
		Existing San. Sewer Manhole	
		Guardrail-Existing	
		Guardrail-Proposed	
		Guardrail-Cable, Other	
		Existing	Proposed
ITS Conduit	Electrical Conduit	Fiber Optic Cable	ITS Controller Cabinet
CCTV	Infrared Detector	Pullbox	Meter Pedestal
Support Posts	Light Pole		



PROJECT LOCATION:	US Route 1 and Route 24 at Cook's Corner in Brunswick
PROGRAM AREA:	Traffic
OUTLINE OF WORK:	This project will replace the legacy field equipment associated with the existing overheight (OH) detection system located along US Route 1 and Route 24 near Cook's Corner

WIN 025319.00



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE 1-13-2023
COMMISSIONER: <i>[Signature]</i>	CHIEF ENGINEER: <i>[Signature]</i>	1-13-2023
PROJECT INFORMATION	PROGRAM PROJECT MANAGER DESIGNER CONSULTANT PROJECT RESIDENT CONTRACTOR PROJECT COMPLETION DATE	J. DOSTIE D. SCHANDEL 1/14/81 12/21/2022
BRUNSWICK OVERHEIGHT VEHICLE DETECTION SYSTEM		
TITLE SHEET		
1		
SHEET NUMBER OF 10		

Date: 12/21/2022
User: dschandel
Division: HIGHWAY
Filename: ... \cod\is\plan\set\001_Title.dgn

Date:12/21/2022

Username: dschandel

Division: HIGHWAY

Filename: ... \cod\vs\planset\002_Notes.dgn

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2020 EDITION OF THE MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD SPECIFICATIONS.
2. CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE 2020 EDITION OF THE MAINEDOT STANDARD DETAILS AND THE MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL (LATEST EDITION AND REVISIONS) UNLESS OTHERWISE INDICATED IN THESE PLANS.
3. NO FORMAL SURVEY WAS CONDUCTED FOR THE CONSTRUCTION OF THIS PROJECT. CONDUITS AND PULL BOXES WERE NOT ASSIGNED GPS COORDINATES. DESIGN WAS BASED ON AERIAL PHOTOGRAPHY, AND FIELD INVESTIGATION CONDUCTED BY MAINEDOT AND VHB. UNDERGROUND CONDUIT WAS IDENTIFIED AND FLAGGED BY MAINEDOT UTILITIES. VHB SURVEY LOCATED THE POINTS AND INCORPORATED THE CONDUIT LOCATIONS IN THE PLANS.
4. ALL WORK SHALL OCCUR WITHIN THE EXISTING MAINEDOT RIGHTS-OF-WAY. ANY RIGHT-OF-WAY INFORMATION SHOWN ON THESE PLANS IS INTENDED FOR INFORMATIONAL PURPOSES ONLY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ACTUAL ELEVATIONS AND MOUNTING HARDWARE FOR THE PROPOSED OVERHEIGHT VEHICLE DETECTION SYSTEM EQUIPMENT INSTALLATIONS.
6. ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED, UNLESS OTHERWISE DIRECTED BY THE RESIDENT. ALL PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR. COSTS FOR REPAIR OF DISTURBED AREAS SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.

EXISTING EQUIPMENT:

1. MAINEDOT SHALL HAVE FIRST RIGHTS TO ALL EQUIPMENT REMOVED OR REPLACED BY THE PROJECT (CONTACT LUKE LORRIMER AT 207-485-8723). THE CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ALL EQUIPMENT CLAIMED BY MAINEDOT AT A CENTRAL LOCATION ON SITE FOR RETRIEVAL BY MAINEDOT. THE STORAGE AREA SHALL BE SECURE, AND ALL EQUIPMENT REMOVED THAT HAS COMPUTER CHIP TECHNOLOGY SHALL BE STORED IN AN INTERIOR HEATED ENVIRONMENT.
2. THE CONTRACTOR SHALL TEST EXISTING EARTH TO GROUND RESISTANCE AT EACH HARDWARE AND CABINET LOCATION TO ENSURE A MINIMUM OF 25 OHMS IS MET. IF ANY LOCATION DOES NOT MEET THE MINIMUM GROUNDING REQUIREMENTS, THE CONTRACTOR SHALL INSTALL AND CONNECT ADDITIONAL GROUND RODS TO MEET THE 25 OHMS OR THE MANUFACTURER'S GROUNDING RECOMMENDATION, WHICHEVER IS MORE STRINGENT. GROUND RODS AND CONNECTIONS SHALL FOLLOW ALL NEC GUIDELINES AND SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.
3. THE CONTRACTOR SHALL CLEAN THE INTERIOR OF ALL EXISTING EQUIPMENT CABINETS WITHIN THE PROJECT LIMITS. THE CABINET, INCLUDING ALL CABLING AND WIRING, SHALL APPEAR NEAT AND TIDY. THE CONTRACTOR SHALL REPLACE ALL ACCESSORY EQUIPMENT IN EXISTING CABINETS THAT HAS FAILED AND/OR REACHED THE END OF USEFUL LIFE INCLUDING, BUT NOT LIMITED TO, FANS, HEATERS, SURGE PROTECTORS, FILTERS AND LIGHTBULBS.
4. THE CONTRACTOR SHALL LEAVE ONE COPY OF AS-BUILT PLANS, WIRING DIAGRAMS, CABINET BLOCK DIAGRAMS, AND EQUIPMENT MANUALS IN EACH EQUIPMENT CABINET.

TEMPORARY TRAFFIC CONTROL:

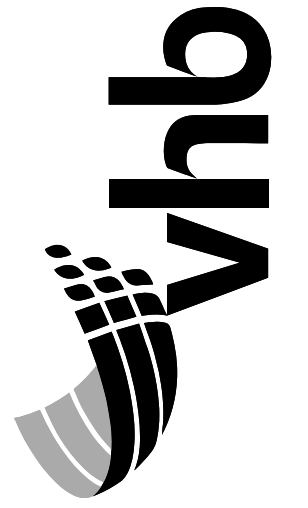
1. ALL TRAFFIC CONTROL EQUIPMENT, DEVICES, AND TEMPORARY TRAFFIC CONTROLS SHALL CONFORM TO THE 2009 EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CHAPTER 6 AND THE LATEST EDITION OF THE MAINEDOT STANDARD DETAILS.
2. ALL TEMPORARY TRAFFIC CONTROL SIGNS, SIGN SUPPORT STRUCTURES, CHANNELIZING DEVICES, FLASHING ARROW PANELS (FAP), PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AND OTHER TRAFFIC CONTROL EQUIPMENT ALONG THE ROADSIDE SHALL MEET OR EXCEED MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) 2016, TEST LEVEL 3 (TL-3) IF MANUFACTURED AFTER DECEMBER 31, 2019. ALL OTHER TRAFFIC CONTROL EQUIPMENT SHALL MEET OR EXCEED NCHRP 350 TL-3.
3. ALL TEMPORARY TRAFFIC CONTROL SIGNS SHALL HAVE ASTM D4956 TYPE VII, TYPE VIII OR TYPE IX SUPER HIGH INTENSITY OR PRISMATIC FLUORESCENT RETROREFLECTIVE SHEETING AND SHALL BE MAINTAINED IN LIKE-NEW CONDITION. ALL ORANGE CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE WITH TYPE IX SHEETING. PLACEMENT OF CONSTRUCTION SIGNS SHALL BE ADJUSTED TO AVOID OBSTRUCTING EXISTING SIGNS AND TO ENSURE PROPER SIGHT LINES TO THE CONSTRUCTION SIGNS AS DETERMINED BY THE RESIDENT.
4. ANY SIGNS, EQUIPMENT, OR DEVICES FOUND TO BE DAMAGED OR UNSERVICEABLE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. ALL SHOULDER AND LANE CLOSURES SHALL REQUIRE APPROVAL OF THE RESIDENT A MINIMUM OF TWO WORKING DAYS IN ADVANCE OF THE CLOSURE.
6. IF WORK IS TO BE CONDUCTED AT NIGHT, THE CONTRACTOR SHALL SUBMIT A LIGHTING PLAN FOR NIGHT WORK TO THE RESIDENT FOR APPROVAL.

PROPOSED EQUIPMENT

1. THE CLOSED CIRCUIT TELEVISION SYSTEM (CCTV) SHALL CONSIST OF TWO CAMERAS. ONE CAMERA SHALL BE FIXED FOCUS TO RECORD LICENSE PLATE INFORMATION WHEN THE OVERHEIGHT DETECTION SYSTEM IS TRIGGERED. ONE CAMERA SHALL BE TO RECORD SHORT VIDEO CLIPS TO IDENTIFY VEHICLES THAT TRIGGER THE OVERHEIGHT DETECTION SYSTEM AND VISUALLY VERIFY THE CAUSE OF THE VEHICLE BEING OVERHEIGHT.
2. THE OVERHEIGHT INFRARED DETECTOR UNITS SHALL BE INSTALLED AT A HEIGHT OF 14- FEET ABOVE PAVEMENT. THE OVERHEIGHT INFRARED DETECTOR UNITS SHALL BE INSTALLED ON EXISTING STEEL POLES.
3. THE CONTRACTOR SHALL WORK WITH COMCAST TO OBTAIN A CABLE DROP FROM UTILITY POLE #4 NEAR FARLEY ROAD. THE CONTRACTOR SHALL INSTALL 3-INCH NON-METALLIC CONDUIT FROM UTILITY POLE #4 TO THE EXISTING ITS CABINET NEAR THE RAILROAD CROSSING OF ROUTE 24. THE CONTRACTOR SHALL INSTALL A 3-INCH METALLIC RISER TO 5' ABOVE GROUND AT UTILITY POLE #4. COMCAST SHALL BE RESPONSIBLE FOR PULLING CABLE AND COMPLETING THE CABLE COMMUNICATIONS DROP. THE CONTRACTOR SHALL COVER ANY COSTS FROM COMCAST THAT ARE ASSOCIATED WITH THE COMMUNICATIONS DROP.
4. THE CONTRACTOR SHALL REPLACE EXISTING FLASHING BEACONS WITH NEW FLASHING BEACONS ON THE EXISTING POLE STRUCTURES.
5. THE CONTRACTOR MAY USE ANY EXISTING CONDUIT OR EXISTING JUNCTION BOXES MOUNTED TO EXISTING POLES. THE CONTRACTOR MAY REPLACE ANY CONDUIT OR JUNCTION BOXES AS NEEDED PER THE MANUFACTURER RECOMMENDATION.

GUARDRAIL PROTECTION:

1. IF THE CONTRACTOR ELECTS TO REMOVE A SEGMENT OF GUARDRAIL FOR ACCESS TO THE WORK AREA, THE CONTRACTOR SHALL RESET THE GUARDRAIL AT THE END OF THE WORKDAY. ALTERNATIVELY, THE CONTRACTOR SHALL PROTECT THE TEMPORARY BLUNT END WITH A SUITABLE CRASH CUSHION. CRASH CUSHIONS INSTALLED FOR THE CONTRACTOR'S CONVENIENCE WILL NOT BE PAID FOR BUT WILL BE CONSIDERED INCIDENTAL TO THE MAINTENANCE OF TRAFFIC CONTROL DEVICES ITEM.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2531900

WIN

025319.00

ITS PLANS

PROJ. MANAGER	J. DOSTIE	BY	DATE
DESIGN-DETAILED	DJS	JAR	7/2022
CHECKED-REVIEWED	DJS	MDS	7/2022
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

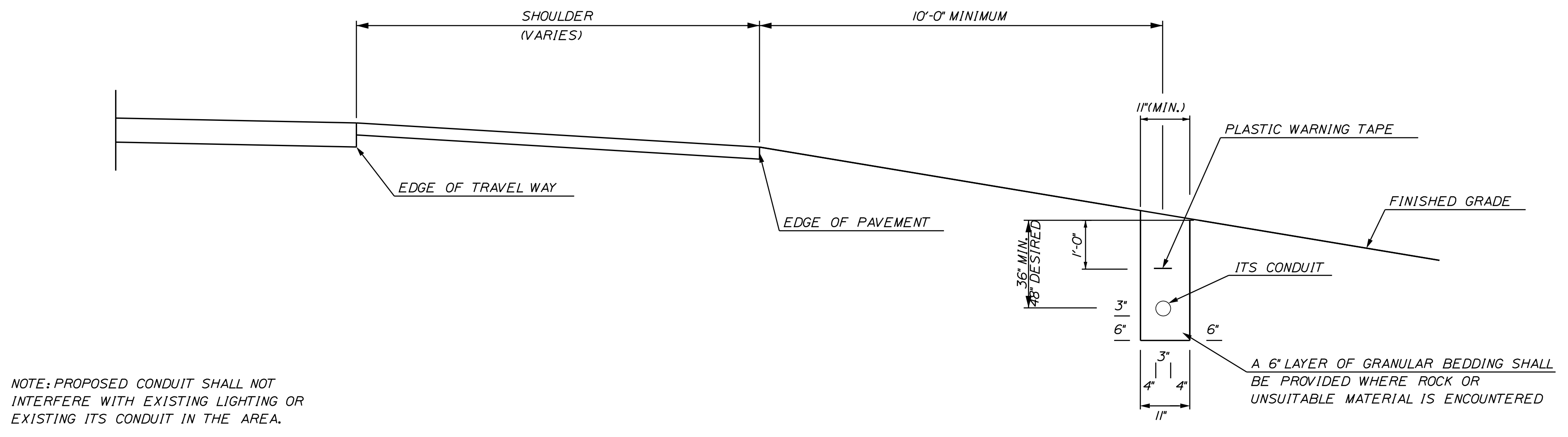
BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM

GENERAL NOTES

SHEET NUMBER

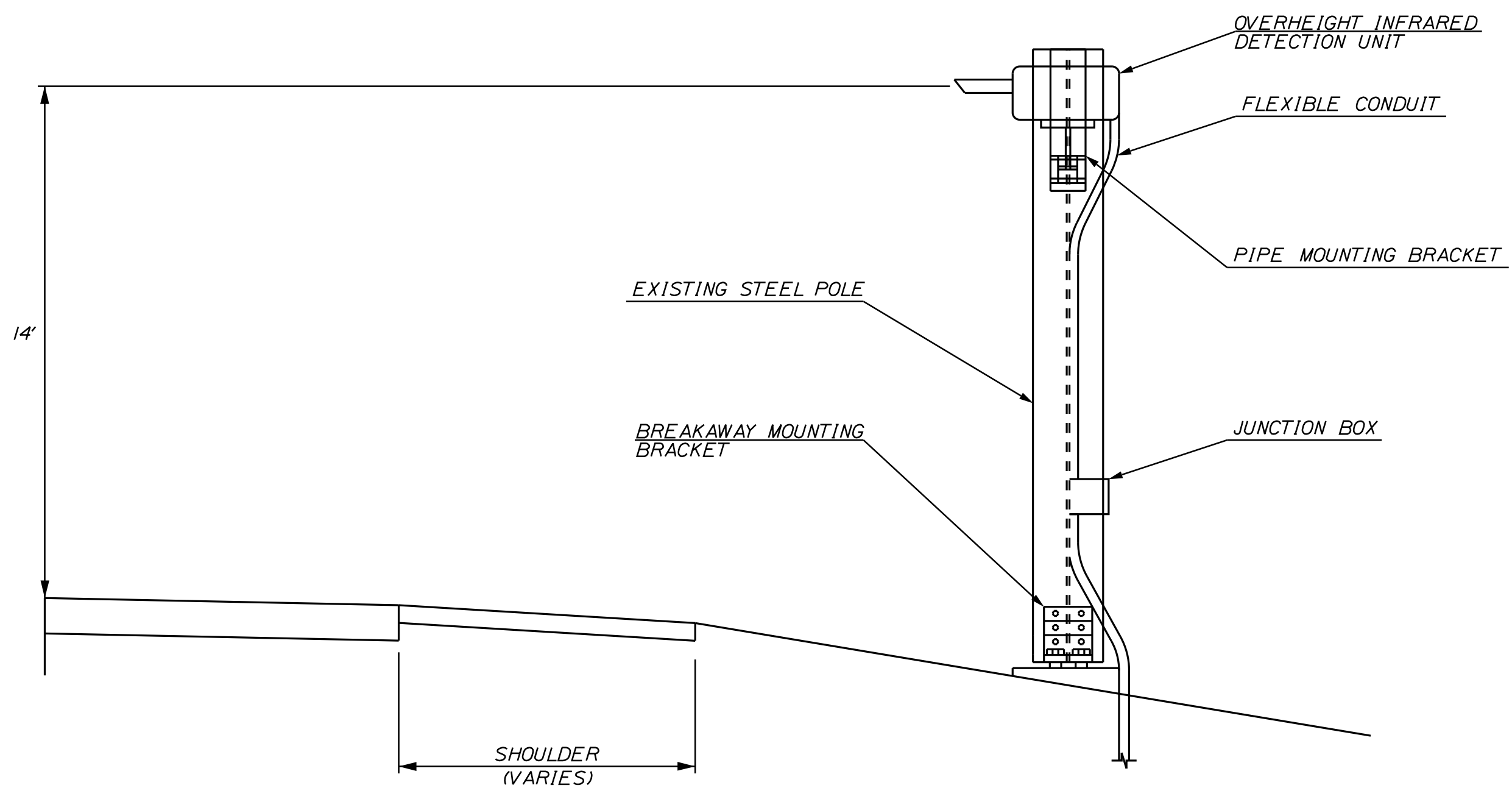
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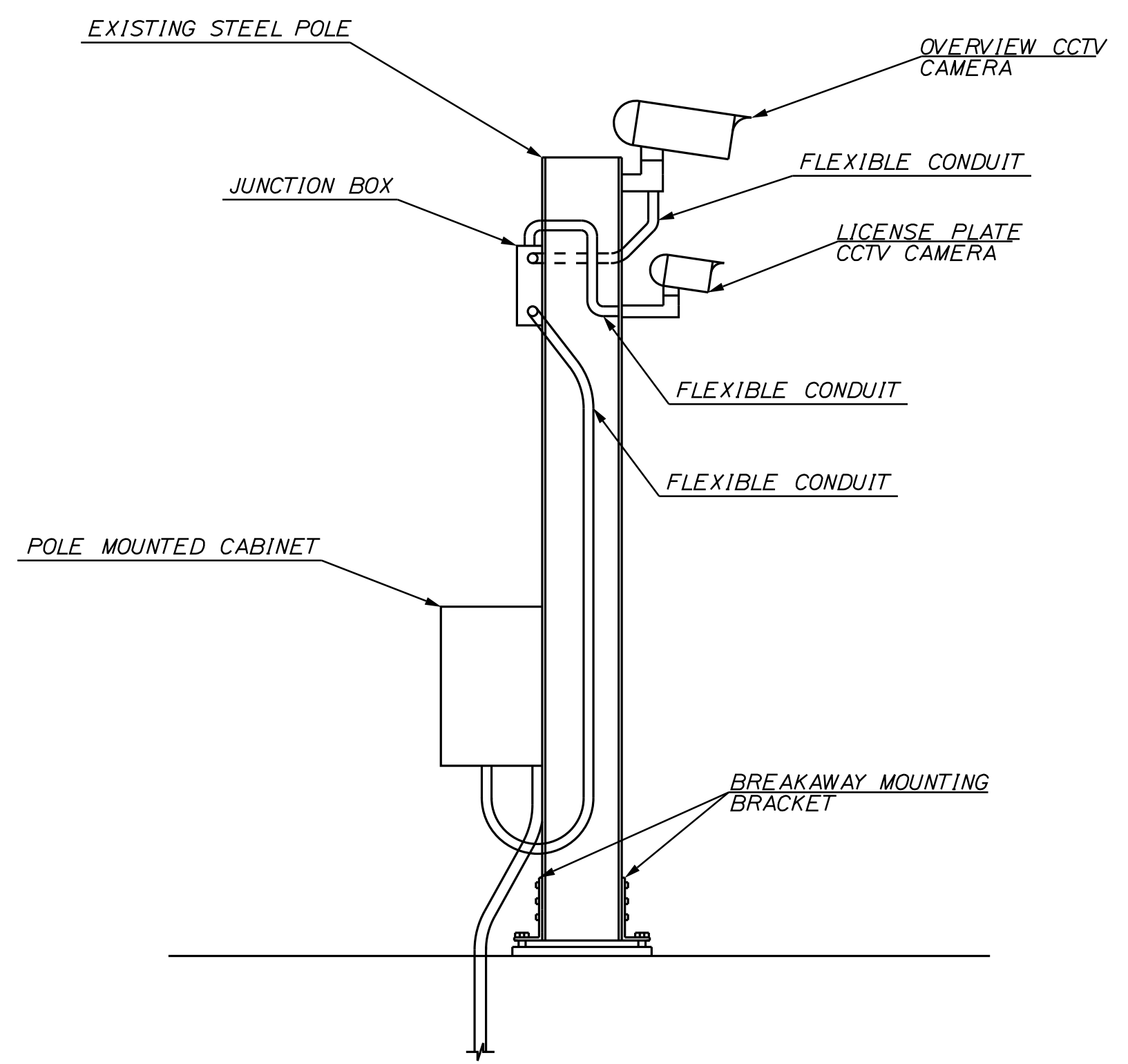


NOTE: PROPOSED CONDUIT SHALL NOT INTERFERE WITH EXISTING LIGHTING OR EXISTING ITS CONDUIT IN THE AREA.

TRENCH DETAIL FOR NEW ITS CONDUIT INSTALLATION ALONG SHOULDER
NOT TO SCALE



OH DETECTION MOUNTING DETAIL
NOT TO SCALE



CCTV CAMERA MOUNTING DETAIL
NOT TO SCALE



PROJ. MANAGER	J. DOSTIE	BY	DATE
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REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

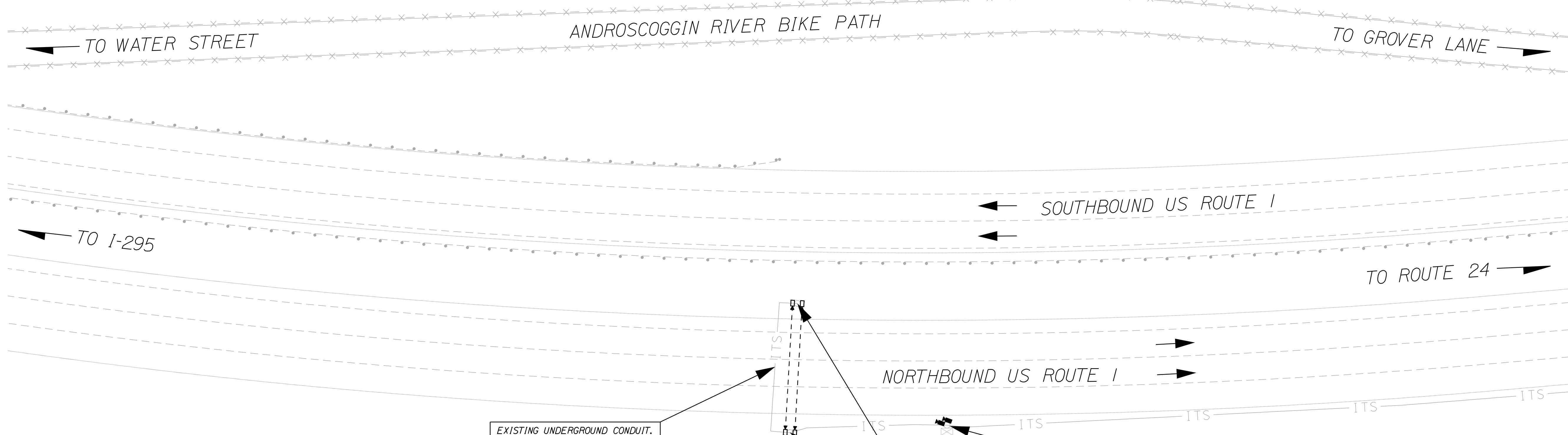
BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
DETAILS

Date: 12/21/2022

Username: dschandel

Division: HIGHWAY

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EXISTING UNDERGROUND CONDUIT.
(ASSUMED LOCATION).

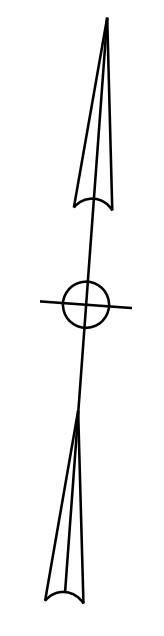
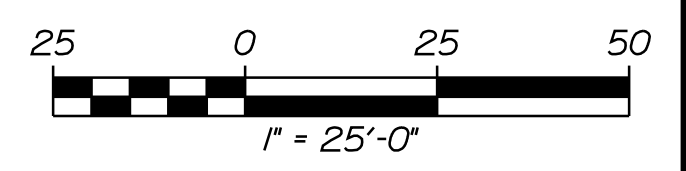
EXISTING OH DETECTION CABINET #1 @ US 1 NB.
REMOVE EXISTING CONTROL AND COMMUNICATION
HARDWARE. INSTALL NEW CONTROL HARDWARE
FOR OVERHEIGHT INFRARED DETECTION SYSTEM.
INSTALL NEW FLASHING BEACON CONTROLLER.
INSTALL NEW CLOSED CIRCUIT TELEVISION (CCTV)
CONTROL HARDWARE. INSTALL NEW FIBER
ETHERNET SWITCH.

REMOVE EXISTING INFRARED SENSORS.
INSTALL NEW DUAL BEAM INFRARED
SENSORS ON EXISTING SUPPORTS

REMOVE EXISTING CLOSED CIRCUIT TELEVISION CAMERAS.
FURNISH AND INSTALL TWO (2) NEW CLOSED CIRCUIT
TELEVISION CAMERAS (CCTV) ON EXISTING STEEL POLE.
CLEAN EXISTING CABINET ENCLOSURE.

LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
643.833	OVERHEIGHT DETECTION SYSTEM	1 LS
654.211	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM	1 LS
654.311	FIBER ETHERNET SWITCH	1 EA



STATE OF MAINE
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PROJECT NO. 2531900
WIN
025319.00
ITS PLANS



PROJ. MANAGER	J. DOSTIE	BY	DATE
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DESIGN DETAILED			
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REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
US 1 NB DETECTION
SITE PLAN

SHEET NUMBER

4

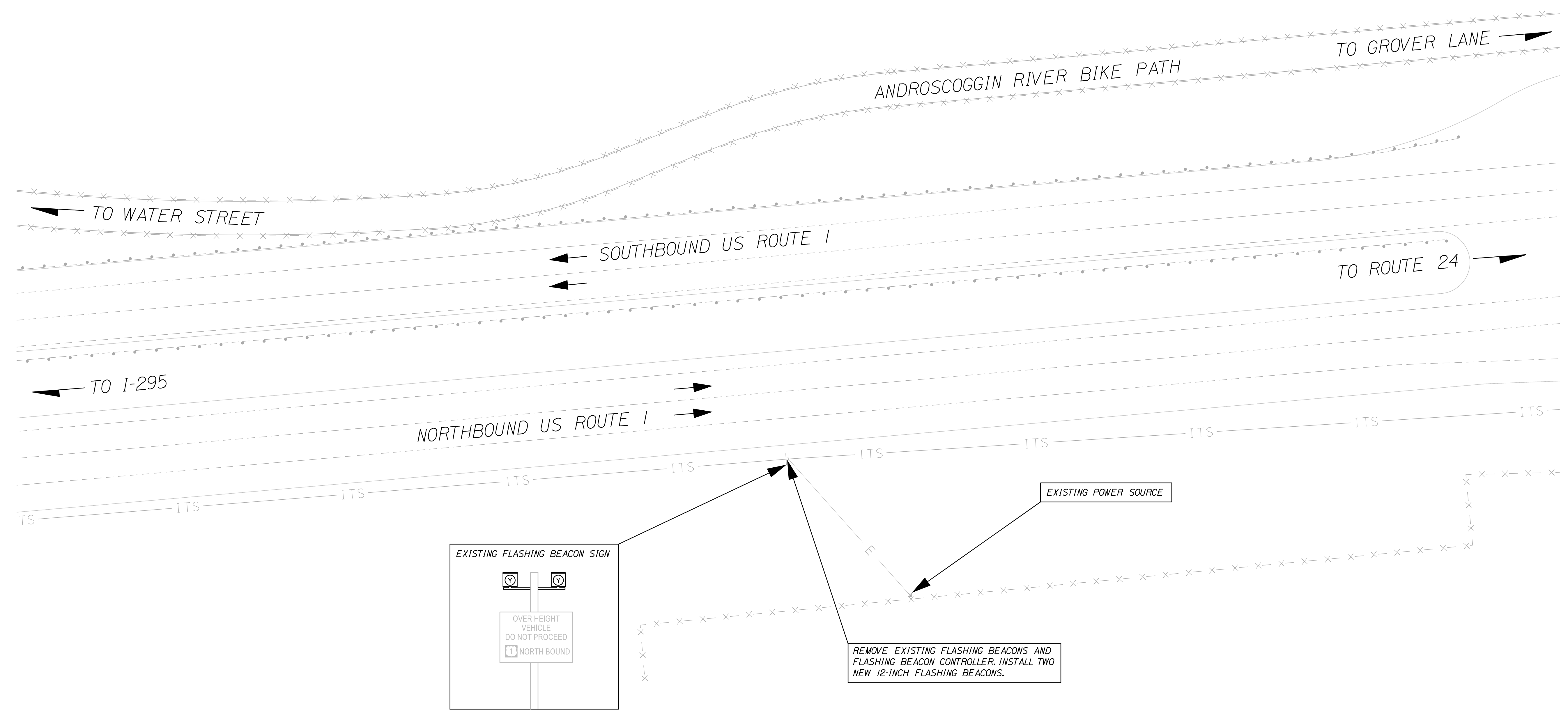
OF 10

Date: 12/21/2022

Username: dschandel

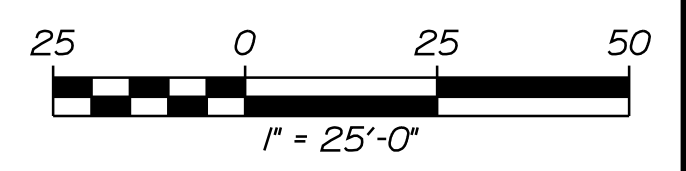
Division: HIGHWAY

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LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
643.61	FLASHING BEACON MODIFICATION	1 LS



STATE OF MAINE
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PROJECT NO. 2531900
WIN
025319.00
ITS PLANS



PROJ. MANAGER	J. DOSTIE	BY	DATE
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DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
US 1 NB FLASHING
BEACON SIGN PLAN

SHEET NUMBER

5

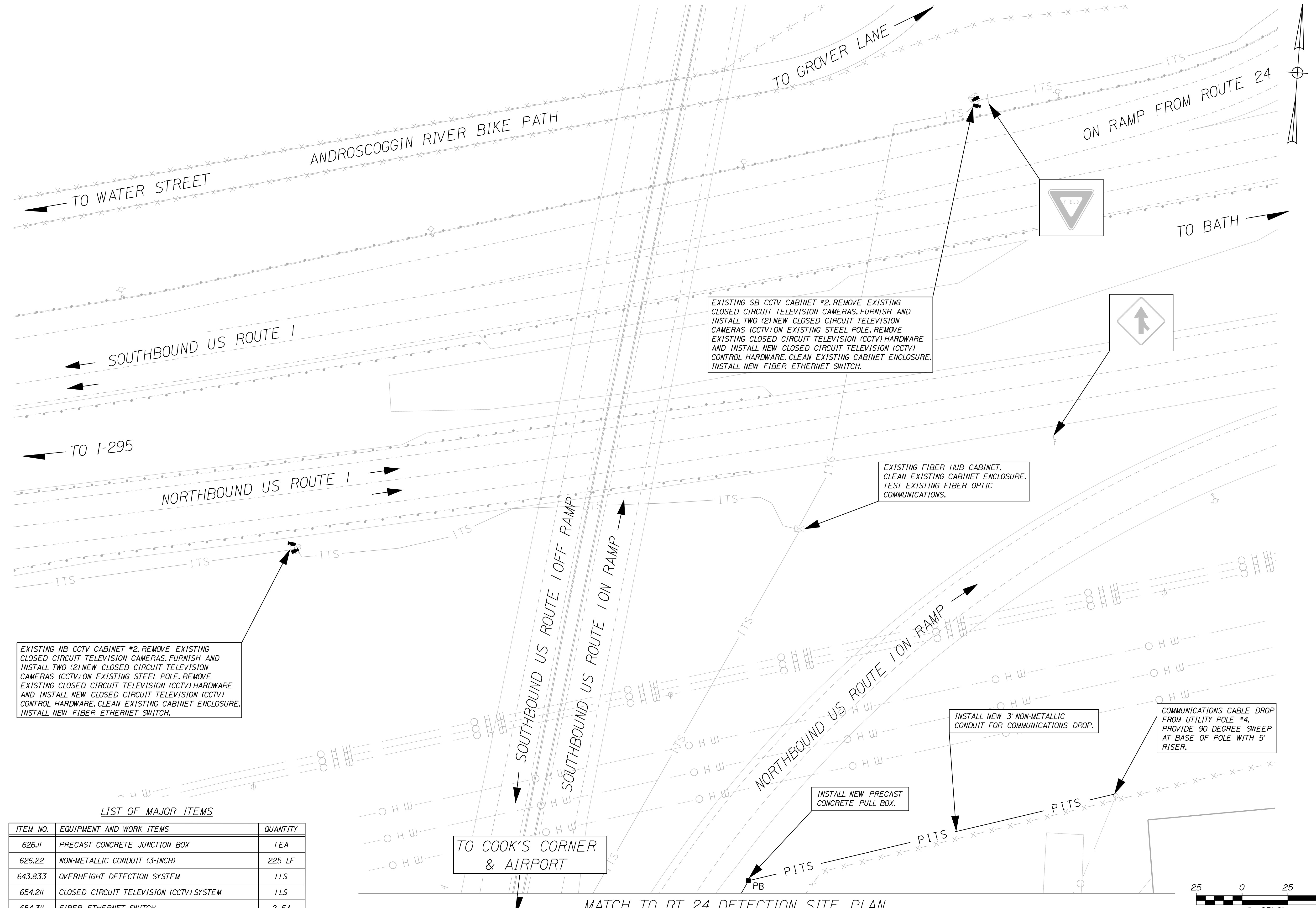
OF 10

Date: 12/21/2022

Username: dschandel

Division: HIGHWAY

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EXISTING NB CCTV CABINET #2. REMOVE EXISTING CLOSED CIRCUIT TELEVISION CAMERAS. FURNISH AND INSTALL TWO (2) NEW CLOSED CIRCUIT TELEVISION CAMERAS (CCTV) ON EXISTING STEEL POLE. REMOVE EXISTING CLOSED CIRCUIT TELEVISION (CCTV) HARDWARE AND INSTALL NEW CLOSED CIRCUIT TELEVISION (CCTV) CONTROL HARDWARE. CLEAN EXISTING CABINET ENCLOSURE. INSTALL NEW FIBER ETHERNET SWITCH.

EXISTING SB CCTV CABINET #2. REMOVE EXISTING CLOSED CIRCUIT TELEVISION CAMERAS. FURNISH AND INSTALL TWO (2) NEW CLOSED CIRCUIT TELEVISION CAMERAS (CCTV) ON EXISTING STEEL POLE. REMOVE EXISTING CLOSED CIRCUIT TELEVISION (CCTV) HARDWARE AND INSTALL NEW CLOSED CIRCUIT TELEVISION (CCTV) CONTROL HARDWARE. CLEAN EXISTING CABINET ENCLOSURE. INSTALL NEW FIBER ETHERNET SWITCH.

EXISTING FIBER HUB CABINET. CLEAN EXISTING CABINET ENCLOSURE. TEST EXISTING FIBER OPTIC COMMUNICATIONS.

INSTALL NEW PRECAST CONCRETE PULL BOX.

INSTALL NEW 3" NON-METALLIC CONDUIT FOR COMMUNICATIONS DROP.

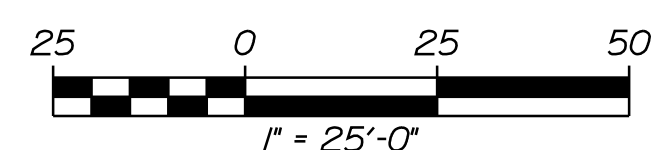
COMMUNICATIONS CABLE DROP FROM UTILITY POLE #4. PROVIDE 90 DEGREE SWEEP AT BASE OF POLE WITH 5' RISER.

LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	1 EA
626.22	NON-METALLIC CONDUIT (3-INCH)	225 LF
643.833	OVERHEIGHT DETECTION SYSTEM	1 LS
654.211	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM	1 LS
654.311	FIBER ETHERNET SWITCH	2 EA

TO COOK'S CORNER & AIRPORT

MATCH TO RT 24 DETECTION SITE PLAN



STATE OF MAINE
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PROJ. MGR.	J. DOSTIE	BY	DATE
DESIGN-DETAILED	DJS	JAR	7/2022
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DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

**BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
US 1 NB AND SB VISUAL
VERIFICATION SITE PLAN**

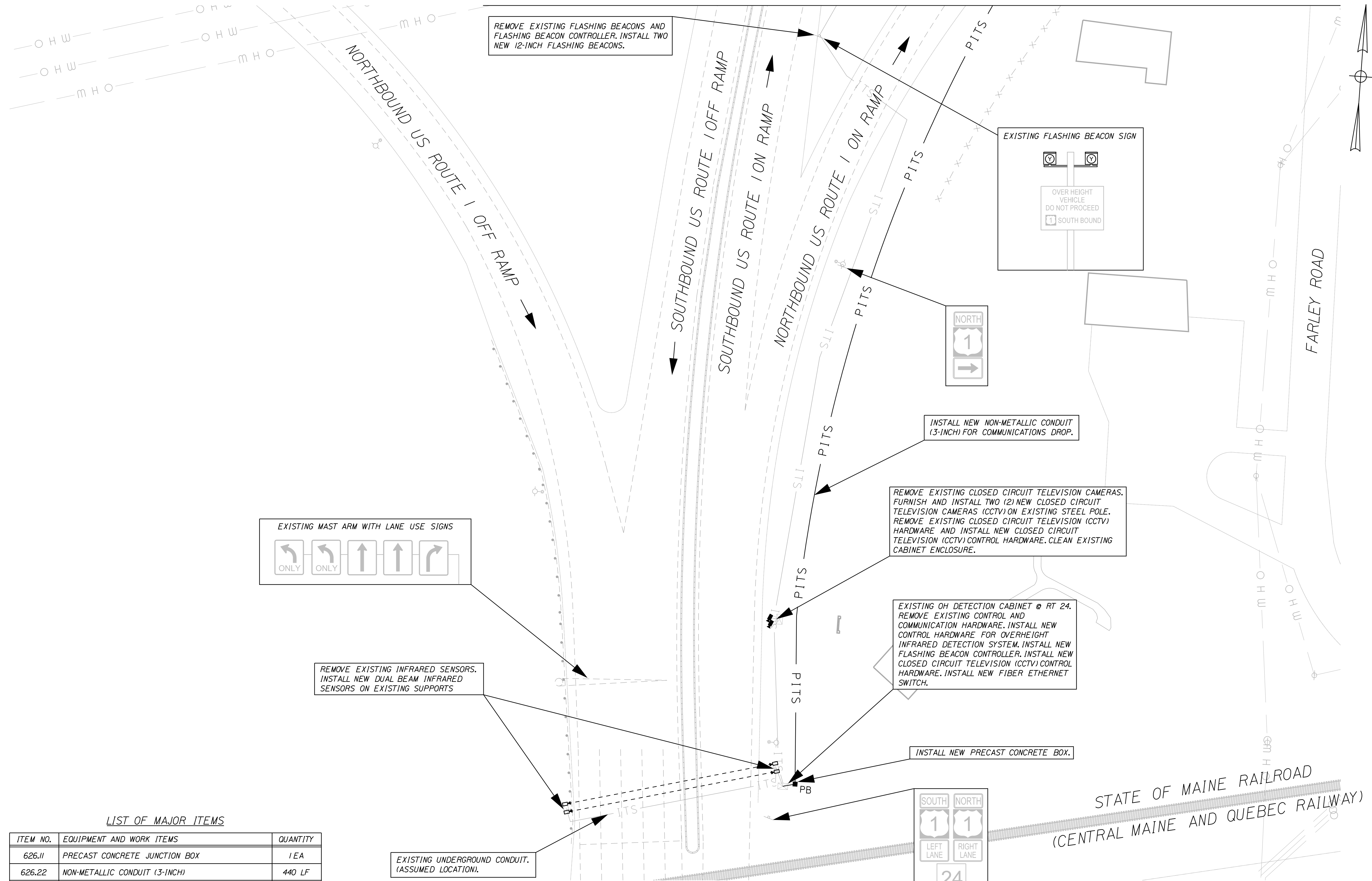
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6

OF 10

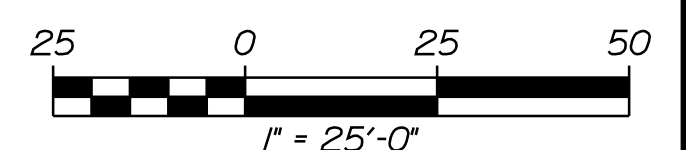
WIN
025319.00
ITS PLANS

MATCH TO US 1 NB AND SB VISUAL VERIFICATION SITE PLAN



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	1 EA
626.22	NON-METALLIC CONDUIT (3-INCH)	440 LF
643.61	FLASHING BEACON MODIFICATION	1 LS
643.833	OVERHEIGHT DETECTION SYSTEM	1 LS
654.211	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM	1 LS
654.311	FIBER ETHERNET SWITCH	1 EA



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WIN
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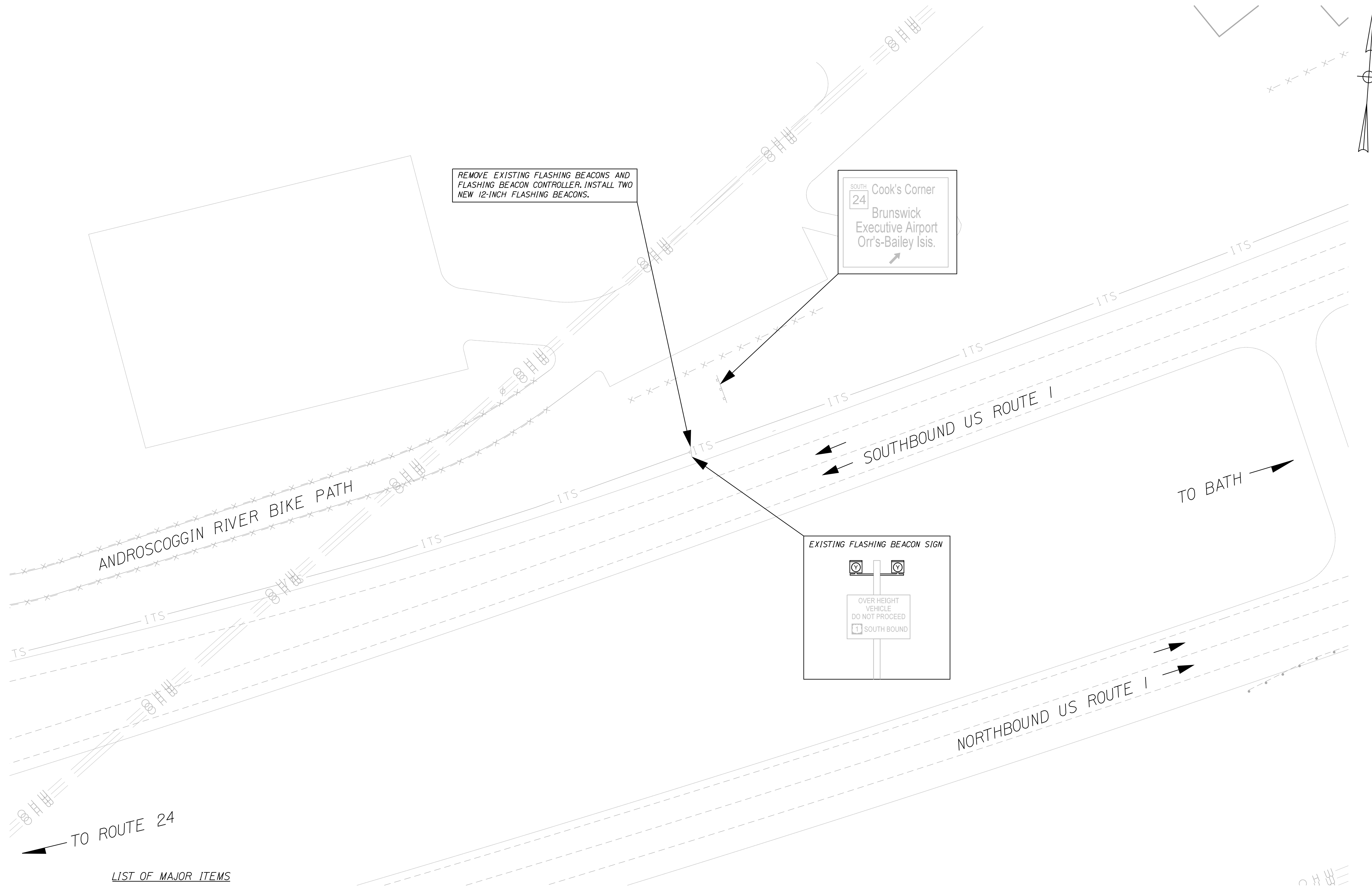


PROJ. MANAGER	J. DOSTIE	BY	DATE
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BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
RT 24 DETECTION SITE PLAN

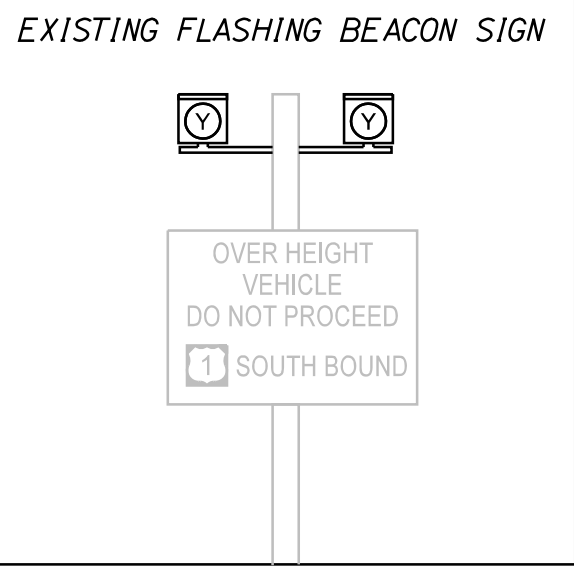
SHEET NUMBER





REMOVE EXISTING FLASHING BEACONS AND FLASHING BEACON CONTROLLER. INSTALL TWO NEW 12-INCH FLASHING BEACONS.

SOUTH 24 Cook's Corner
Brunswick
Executive Airport
Orr's-Bailey Isis.



ANDROSCOGGIN RIVER BIKE PATH

SOUTHBOUND US ROUTE 1

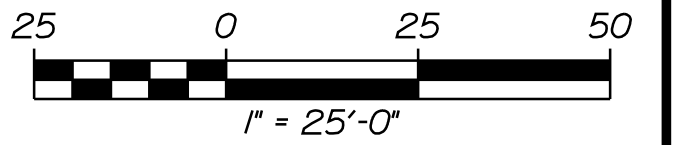
NORTHBOUND US ROUTE 1

TO BATH

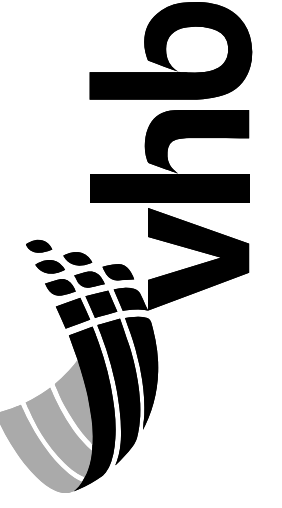
TO ROUTE 24

LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
643.6I	FLASHING BEACON MODIFICATION	1LS



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FIELD CHANGES			

BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
US 1 SB FLASHING
BEACON SIGN PLAN

SHEET NUMBER

8

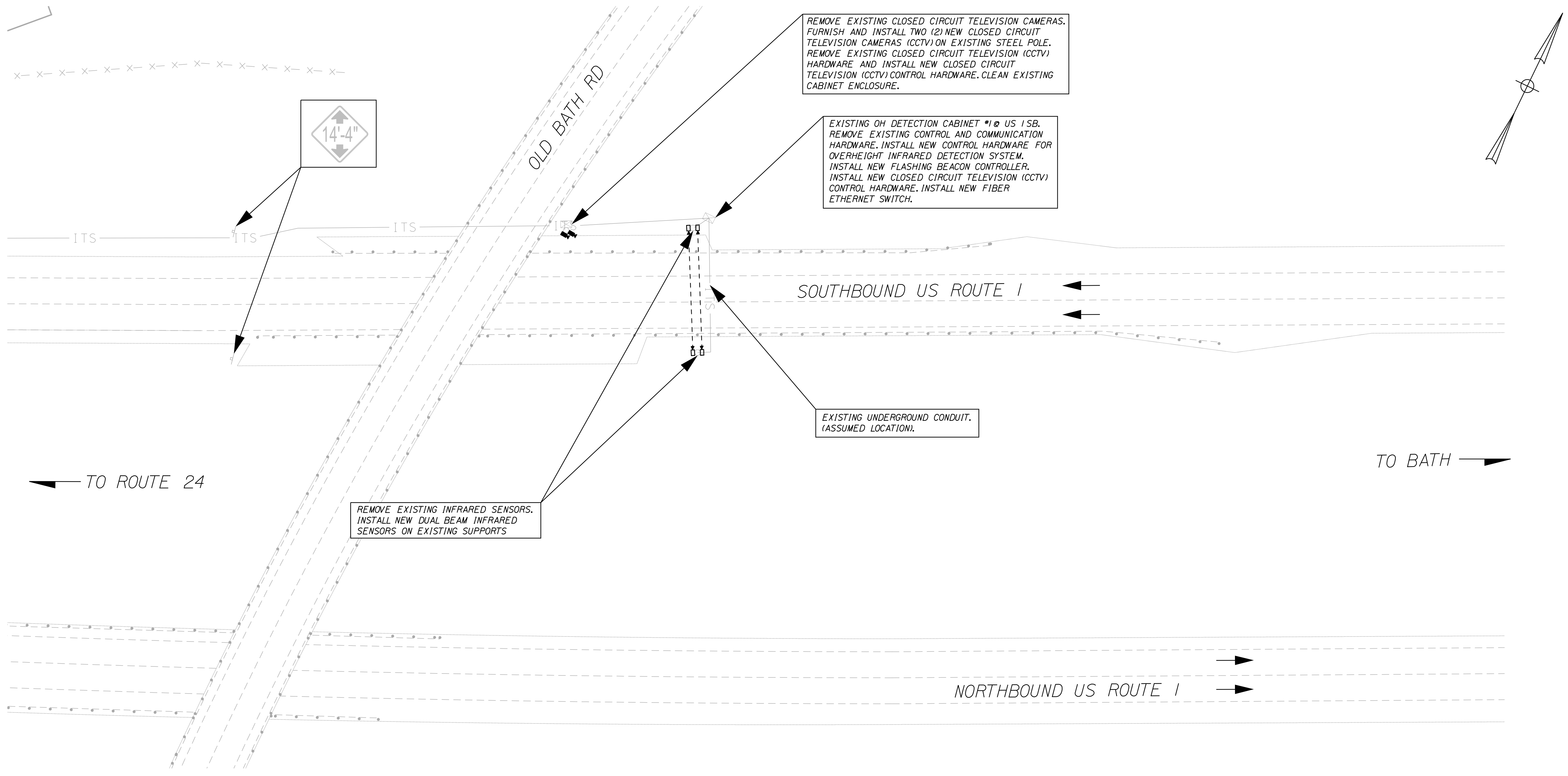
OF 10

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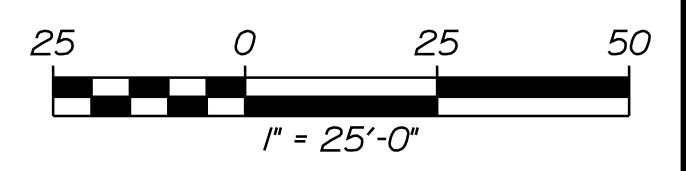
Division: HIGHWAY

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LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
643.833	OVERHEIGHT DETECTION SYSTEM	1 LS
654.211	CLOSED CIRCUIT TELEVISION (CCTV)	1 LS
654.311	FIBER ETHERNET SWITCH	1 EA



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PROJ. MANAGER	J. DOSTIE	BY	DATE
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DESIGN-DETAILED2			
REVISIONS 1			
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REVISIONS 4			
FIELD CHANGES			

BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
US 1 SB DETECTION
SITE PLAN

SHEET NUMBER

9

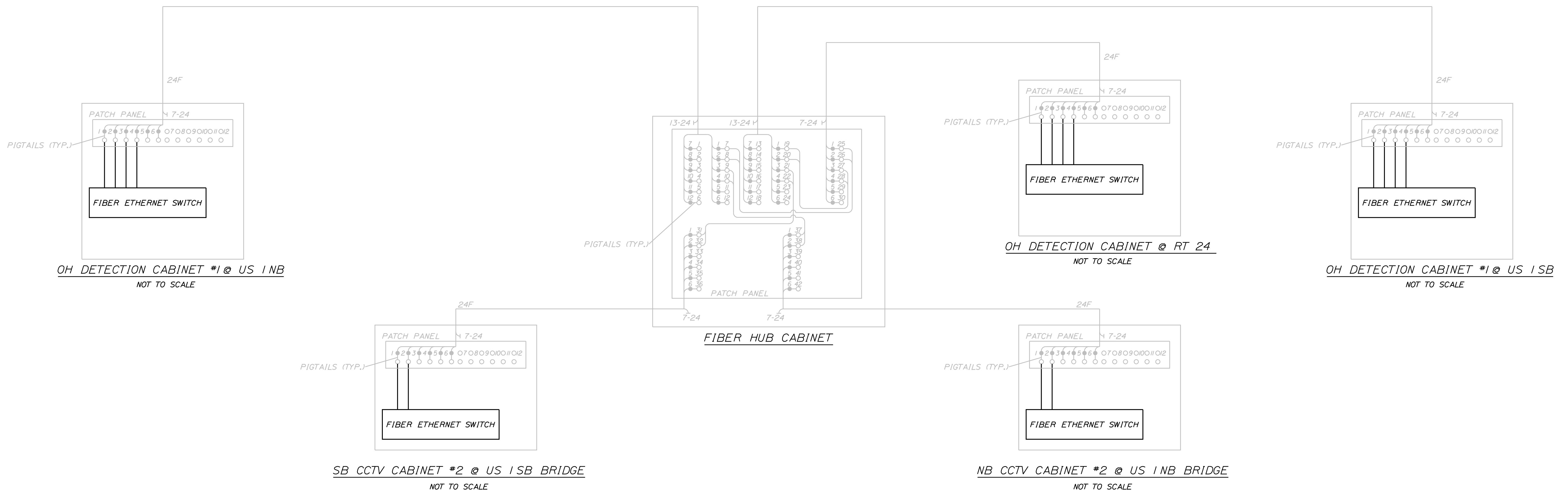
OF 10

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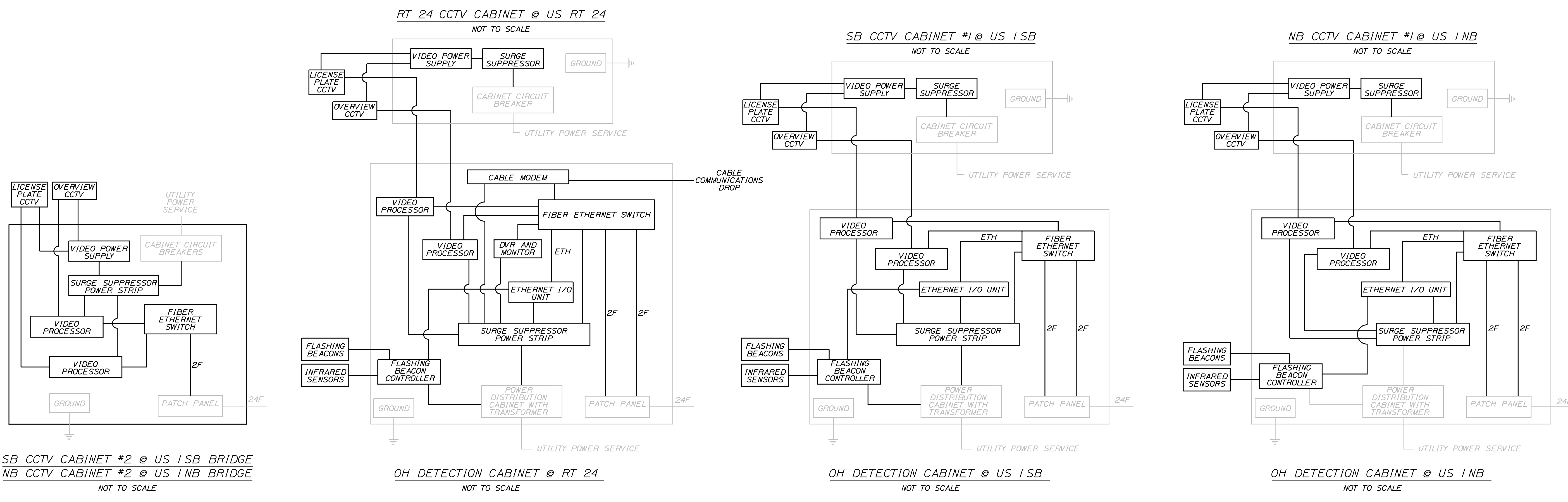
Username: dschandel

Division: HIGHWAY

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FIBER OPTIC COMMUNICATION ARCHITECTURE



ITS CABINET BLOCK DIAGRAMS



PROJ. MANAGER	J. DOSTIE	DATE
DESIGN-DETAILED	DJS	7/2022
CHECKED-REVIEWED	DJS	7/2022
DESIGN-DETAILED	MDS	
DESIGN-DETAILED		
REVISIONS 1		
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REVISIONS 3		
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BRUNSWICK
OVERHEIGHT VEHICLE DETECTION SYSTEM
COMMUNICATION DIAGRAMS