

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



PITTSFIELD, NEWPORT,
PLYMOUTH, ETNA,
CARMEL, HAMPDEN
SOMERSET AND PENOBSCOT COUNTIES

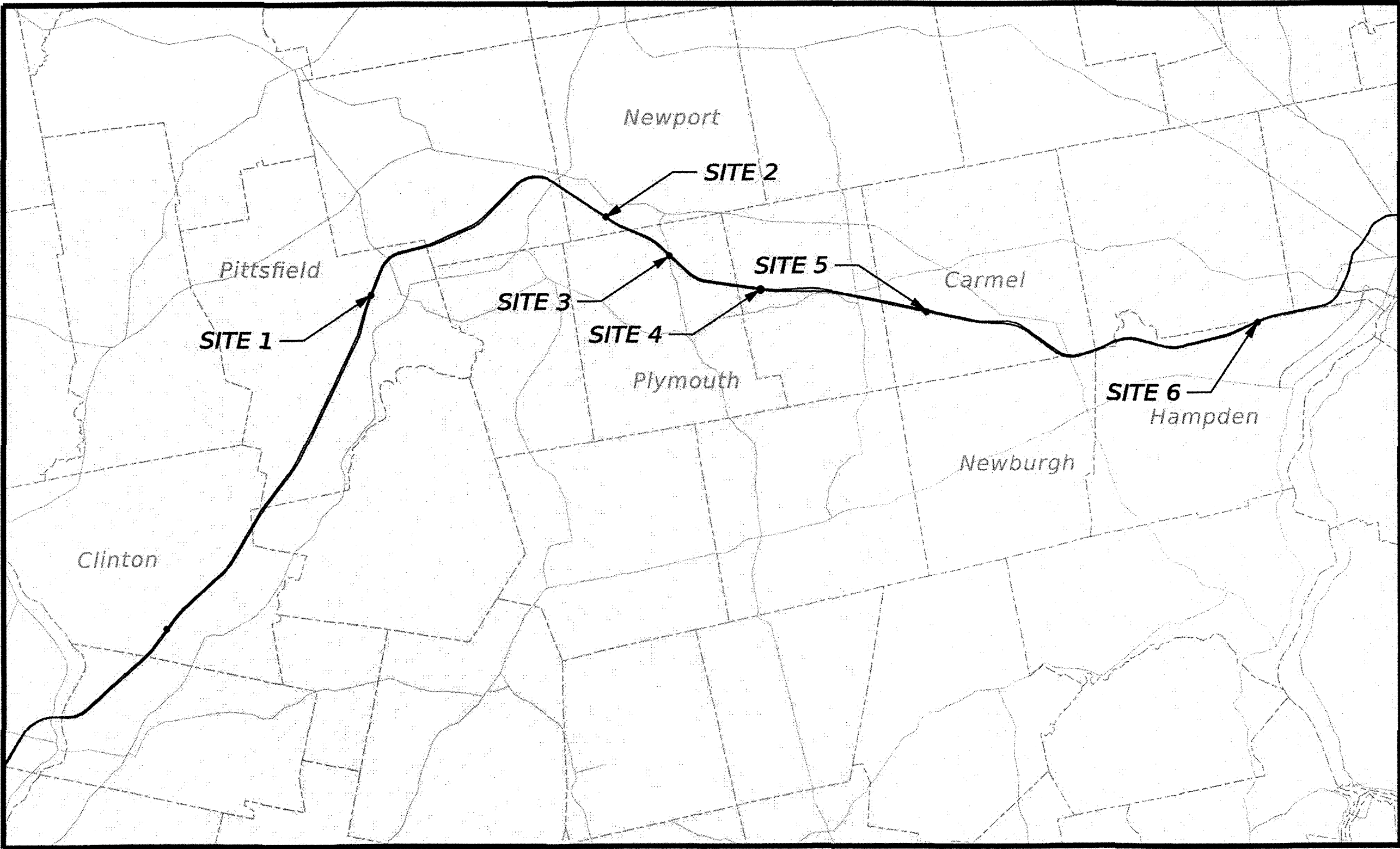
I-95: MILES 150-180

FEDERAL PROJECT NO. 2711400
STATE WIN 027114.00

PLAN LEGEND			
Town, County, State	Property Lines	R/W Lines-Existing	R/W Lines-Proposed
Culvert-Existing	Culvert Proposed	Curbing	Existing
Type 1	Type 3	Type 5	Outline of Bodies of Water
Exposed Bedrock	Buildings	Trees	Tree Line
Clearing Limit Line	Railroad	Boring	Pavement Core
Test Pit	HB-XXX-###	PC-#	TP-XXX-###
Catch Basins	Manholes	Proposed Underdrain	Proposed Ditch
Existing Ditch	Utility Poles	Fire Hydrants	Existing Water Line
Existing San. Sewer	Existing San. Sewer Manhole	Guardrail-Existing	Guardrail-Proposed
Centerline-Existing	Centerline-Proposed	Travelway-Existing	Travelway-Proposed
Probe	P-#. #X	#. # = Depth	X = W (Weathered Rock)
			R (Refusal)
			NR (No Refusal)

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0 2 4
Scale in Miles
LOCATION MAP

- Site 1: Pittsfield, I-95 South of Somerset Ave
Site 2: Newport, I-95 West of Ridge Road
Site 3: Plymouth, I-95 West of Moosehead Trail
Site 4: Etna, I-95 East of West Etna Road
Site 5: Carmel, I-95 East of Cook Road
Site 6: Hampden, I-95 East of Coldbrook Road



PROJECT LOCATION:	Multiple locations along Interstate 95 between exits 150 and 180
PROGRAM AREA:	Multimodal
SCOPE OF WORK:	This project will install eight (8) new highway traffic cameras (HTC) along I-95

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED
COMMISSIONER: [Signature]
CHIEF ENGINEER: [Signature]

DATE
6-1-26
6-1-26

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

ETHAN DAVIDSON
No. 16083
Professional Engineer

[Signature]
SIGNATURE
16083
P.E. NUMBER
5/1/2026
DATE

PROJECT INFORMATION

PROGRAM	Multimodal
PROJECT MANAGER	Daniel Loring, P.E.
DESIGNER	Ethan Davidson, P.E.
CONSULTANT	HNTB
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

INSTALLATION OF HIGHWAY
TRAFFIC CAMERAS

TITLE SHEET

SHEET NUMBER

1

OF 10

GENERAL NOTES

1. NO FORMAL SURVEY WAS CONDUCTED FOR THE CONSTRUCTION OF THIS PROJECT. CONDUITS, POLES, CABINETS AND OTHER ASSOCIATED ITEMS WERE NOT ASSIGNED GPS COORDINATES. DESIGN WAS BASED ON AERIAL PHOTOGRAPHY. CONTRACTOR SHALL VERIFY ALL SITE INFORMATION PRIOR TO COMMENCING ANY WORK.
2. ALL EXISTING MAINEDOT RIGHT OF WAY (ROW) LINES SHOWN ON PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. ALL WORK SHALL BE CONDUCTED COMPLETELY WITHIN THE EXISTING ROW. PROPOSED POLE LOCATIONS ARE TO BE VERIFIED BY THE RESIDENT PRIOR TO INSTALLATION TO ENSURE NO WORK IS CONDUCTED OUTSIDE OF LIMITS.
3. THE CONTACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ACTUAL ELEVATIONS AND MOUNTING HARDWARE FOR THE HIGHWAY TRAFFIC CAMERA EQUIPMENT INSTALLATIONS.
4. ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED, UNLESS OTHERWISE DIRECTED BY THE RESIDENT. ANY DAMAGE TO EXISTING ROADS, SLOPES OR PIPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE.
5. CLEARING LIMITS SHALL BE ESTABLISHED IN THE FIELD BY THE RESIDENT.
6. THE LOCATION OF EXISTING UTILITIES AND DRAINAGE ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL DETERMINE UTILITY LOCATIONS PRIOR TO BEGINNING ANY WORK. ALL UTILITY SPLICES WILL BE MADE IN THE CABINETS OR JUNCTION BOXES MEETING MAINEDOT SPECIFICATIONS.
7. 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 RECOMMENDAITON, WHICHEVER IS MORE STRINGENT. GROUND RODS AND CONNECTIONS SHALL FOLLOW ALL NEC GUIDELINES AND SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.
8. ALL REQUIRED CLEARING FOR HIGHWAY TRAFFIC CAMERA INSTALLATION AND CONDUIT SHALL BE INCIDENTAL TO HIGHWAY TRAFFIC CAMERA (ITEM 654.10)
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY TRANSFORMER UPGRADES AND NECESSARY UTILITY COORDINATION REQUIRED AS A RESULT OF THE PROJECT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 654.51

EXISTING EQUIPMENT

10. THE CONTRACTOR SHALL CLEAN THE INTERIOR OF ALL EXISTING EQUIPMENT CABINETS INCLUDED IN THE PROJECT. THE CABINET, INCLUDING ALL CABLING AND WIRING, SHALL APPEAR NEAT AND TIDY. THE CONTRACTOR SHALL REPLACE ALL ACCESSORY EQUIPMENT IN EXISTING CABINETS THAT HAVE FAILED AND/OR REACHED THE END OF USEFUL LIFE, INCLUDING, BUT NOT LIMITED TO, FANS, HEATERS, SURGE PROTECTORS, FILTERS AND LIGHTBULBS. THIS WORK SHALL BE INCIDENTAL TO HIGHWAY TRAFFIC CAMERA (ITEM 654.10).

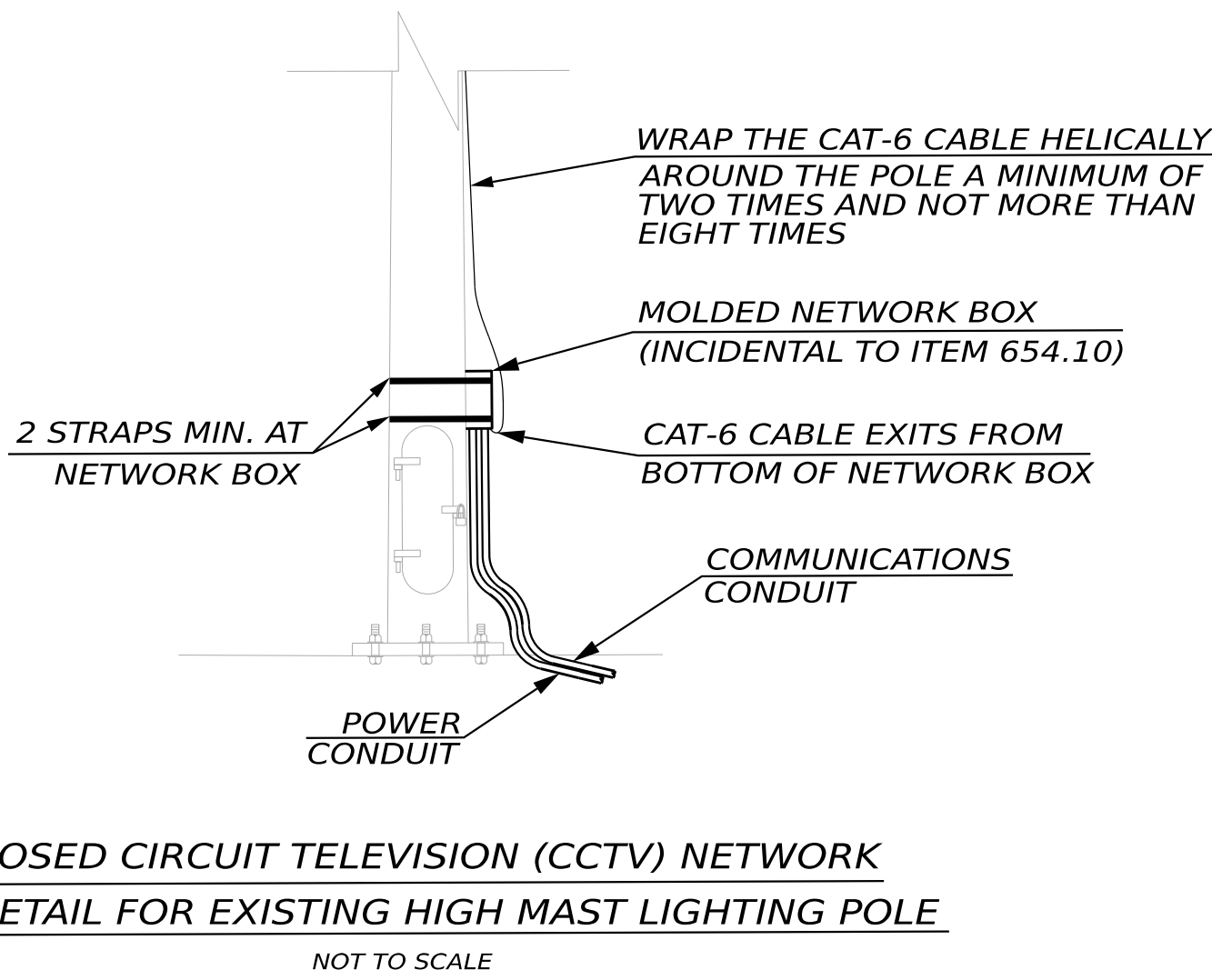
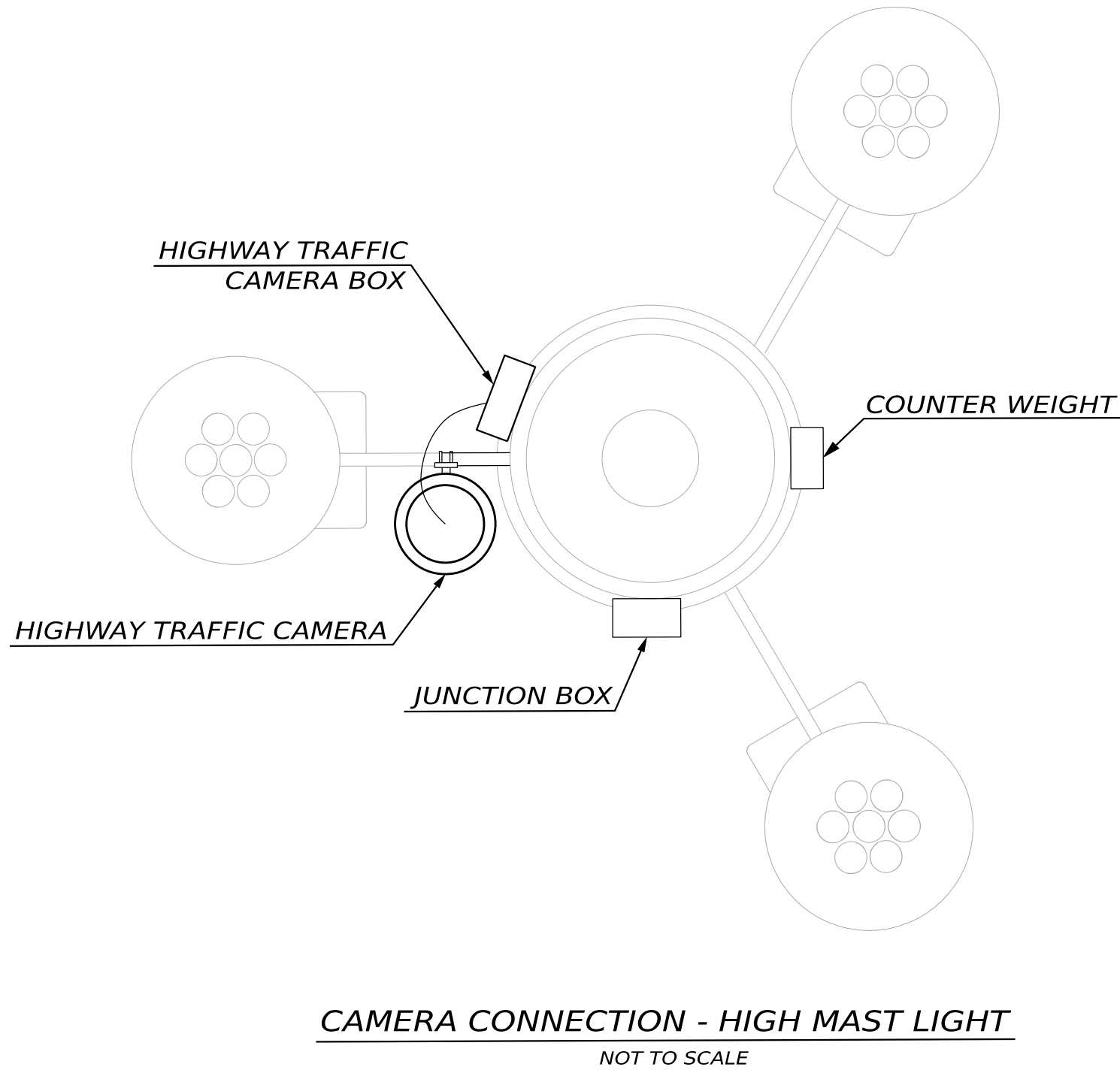
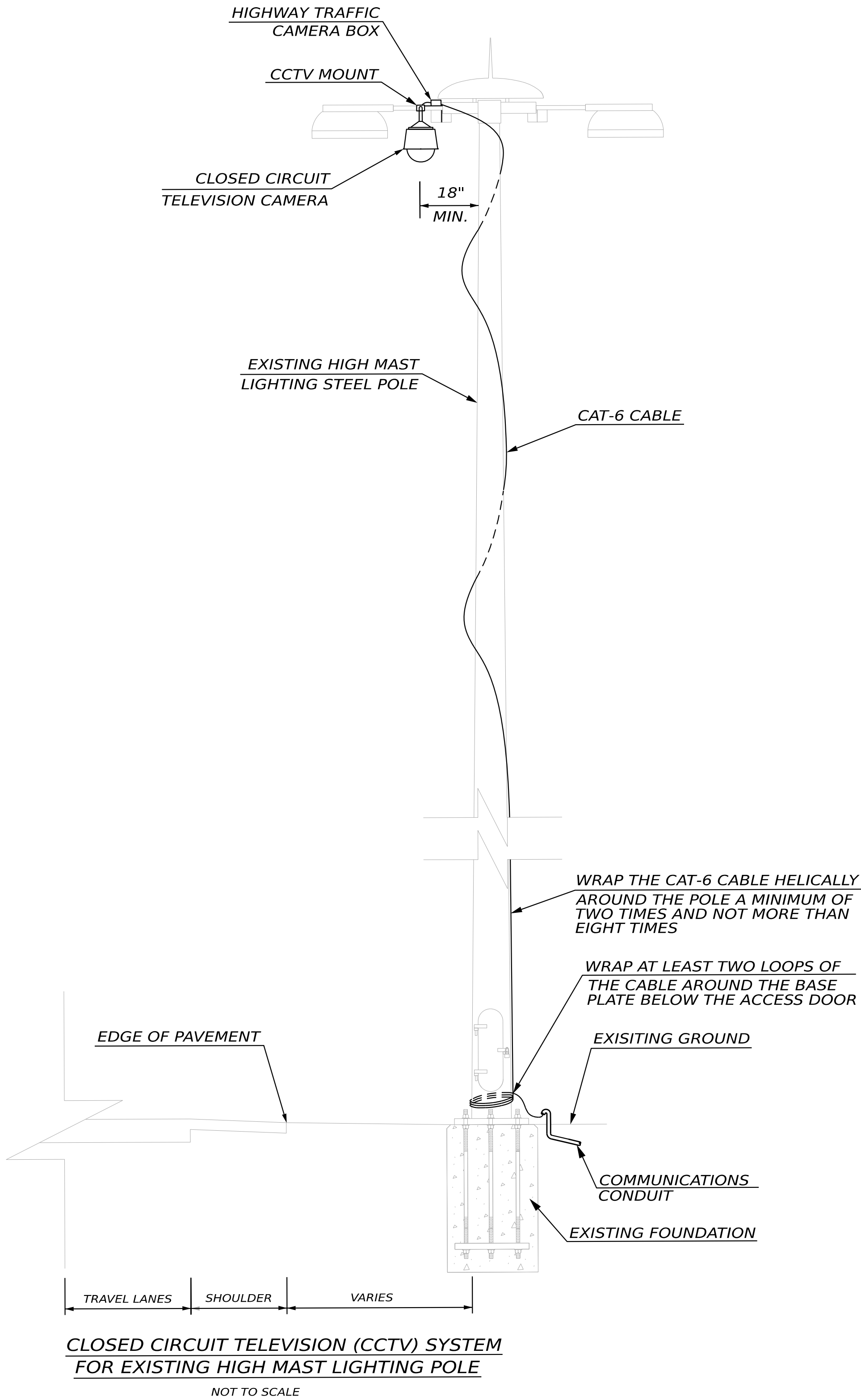
PROPOSED EQUIPMENT

11. THE FOLLOWING ABBREVIATIONS CAN BE FOUND ON THE SITE PLANS:
HTC = HIGHWAY TRAFFIC CAMERA
PTZ = PAN TILT ZOOM
LAT = LATITUDE
LONG = LONGITUDE
OHSS = OVERHEAD SIGN STRUCTURE
12. THE CONTRACTOR SHALL LEAVE ONE COPY OF AS-BUILT PLANS, WIRING DIAGRAMS, CABINET BLOCK DIAGRAMS AND EQUIPMENT MANUALS IN ALL EQUIPMENT CABINETS.
13. CONTRACTOR SHALL VERIFY LINE VOLTAGE AND PROVIDE ANY STEP DOWN TRANSFORMERS AS NEEDED. ALL LINE VOLTAGES SHALL BE 120 VOLTS.
14. COMMUNICATIONS AND POWER CONNECTIONS SHOWN IN PLANS ARE APPROXIMATE AND SHALL BE CONFIRMED DURING FIELD COORDINATION AFTER CONTRACT AWARD WITH THE RESIDENT ENGINEER.
15. MAINEDOT WILL PROVIDE INTEGRATION FOR HIGHWAY TRAFFIC CAMERAS INTO NEW ENGLAND COMPASS 511. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT COMMUNICATION CAN BE MADE TO AND FROM THE DEVICES. THE CONTRACTOR SHALL SUPPLY MAINEDOT WITH THE CAMERA STATION LICENSE AND NETWORK THE CAMERA IN SUCH A WAY THAT IT CAN BE INTEGRATED INTO COMPASS. THE CONTRACTOR MUST PROVIDE MAINEDOT'S ITS GROUP WITH CAMERA'S EXTERNAL IP ADDRESS.
16. HIGHWAY TRAFFIC CAMERA SYSTEMS SHALL BE INSTALLED SUCH THAT UPSTREAM AND DOWNSTREAM TRAFFIC CAN BOTH BE OBSERVED. IF RELOCATION IS REQUIRED TO IMPROVE PAN TILT ZOOM CAPABILITIES, THIS WORK SHALL BE INCIDENTAL TO HIGHWAY TRAFFIC CAMERA (ITEM 654.10).
17. HIGHWAY TRAFFIC CAMERAS SHALL BE AXIS MODEL Q6225-LE PTZ CAMERA WITH COMPATIBLE WIPER KIT OR APPROVED EQUAL.
18. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING COMMUNICATIONS AND ANY WORK REQUIRED TO PREPARE COMMUNICATIONS AT EACH SITE. ALL COMMUNICATIONS AND ANCILLARY EQUIPMENT WILL BE INCIDENTAL TO COMMUNICATION DROP (ITEM 645.332).
19. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING POWER METERS IF REQUIRED. ALL WORK SHALL CONFORM WITH THE LOCAL UTILITY REQUIREMENTS. THIS WORK SHALL BE INCIDENTAL TO ELECTRICAL SERVICE CONNECTION (ITEM 654.51).
20. HIGHWAY TRAFFIC CAMERA CONTROLLER CABINET AND ANCILLARY EQUIPMENT SHALL BE INCIDENTAL TO HIGHWAY TRAFFIC CAMERA (ITEM 654.10).
21. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING CONNECTION DETAILS FOR EXTENSION ARMS AND LOWERING DEVICES. ALL ASSOCIATED MATERIALS SHALL BE INCIDENTAL TO THE FOLLOWING PAY ITEMS:
- CAMERA CONNECTION - MAST ARM (ITEM 654.101)
- CAMERA CONNECTION - HIGH MAST LIGHT (ITEM 654.102)



PROJ. MANAGER: DANIEL LORING, P.E.	BY	DATE	SIGNATURE
DESIGN-DETAILED	ETH	04/2026	
CHECKED-REVIEWED	EDD	04/2026	P.E. NUMBER
DESIGN-DETAILED01			
DESIGN-DETAILED03			DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

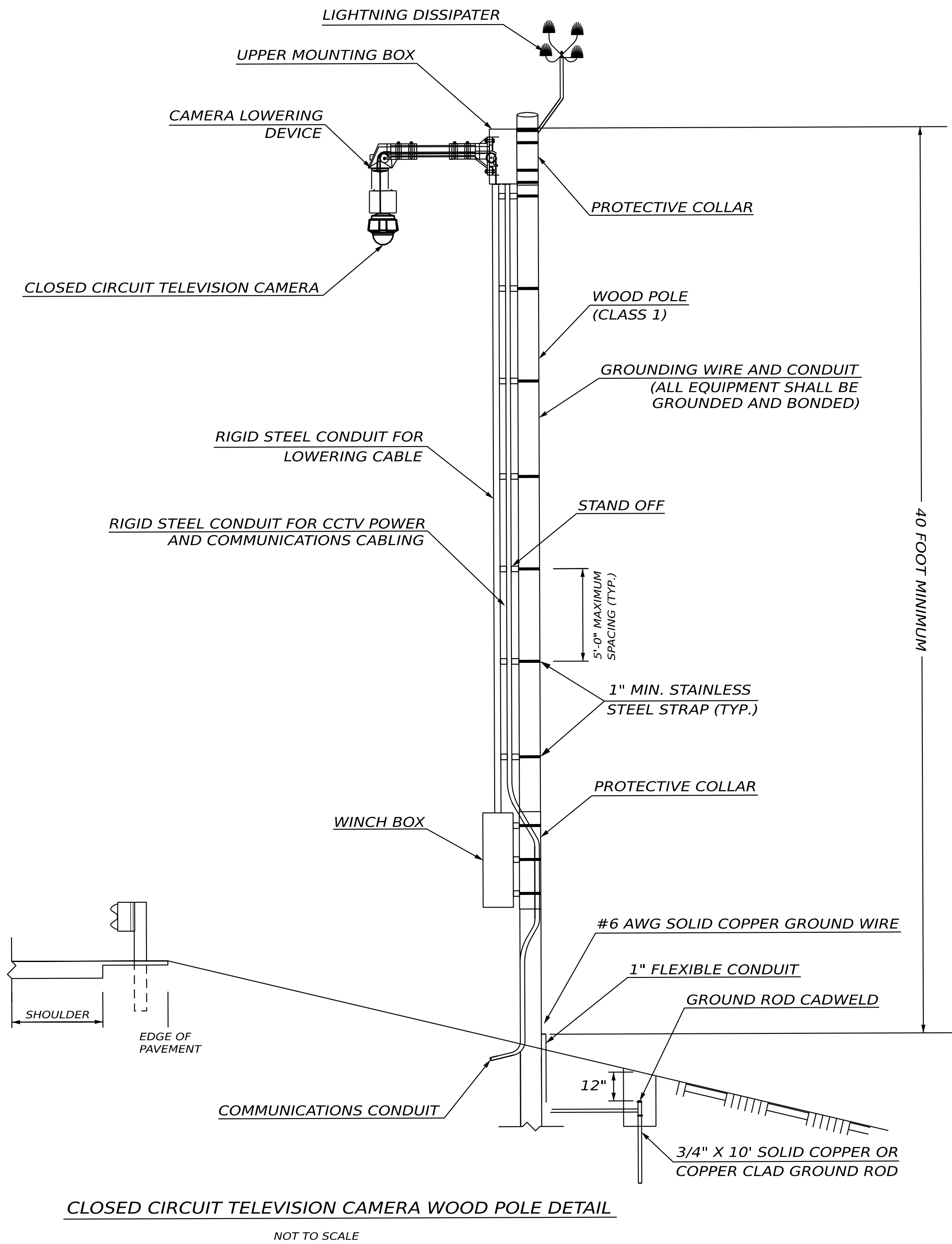
NOTES:
1. Attachments are Shown Conceptually and Shall be Designed per Note 21 of Sheet 2.



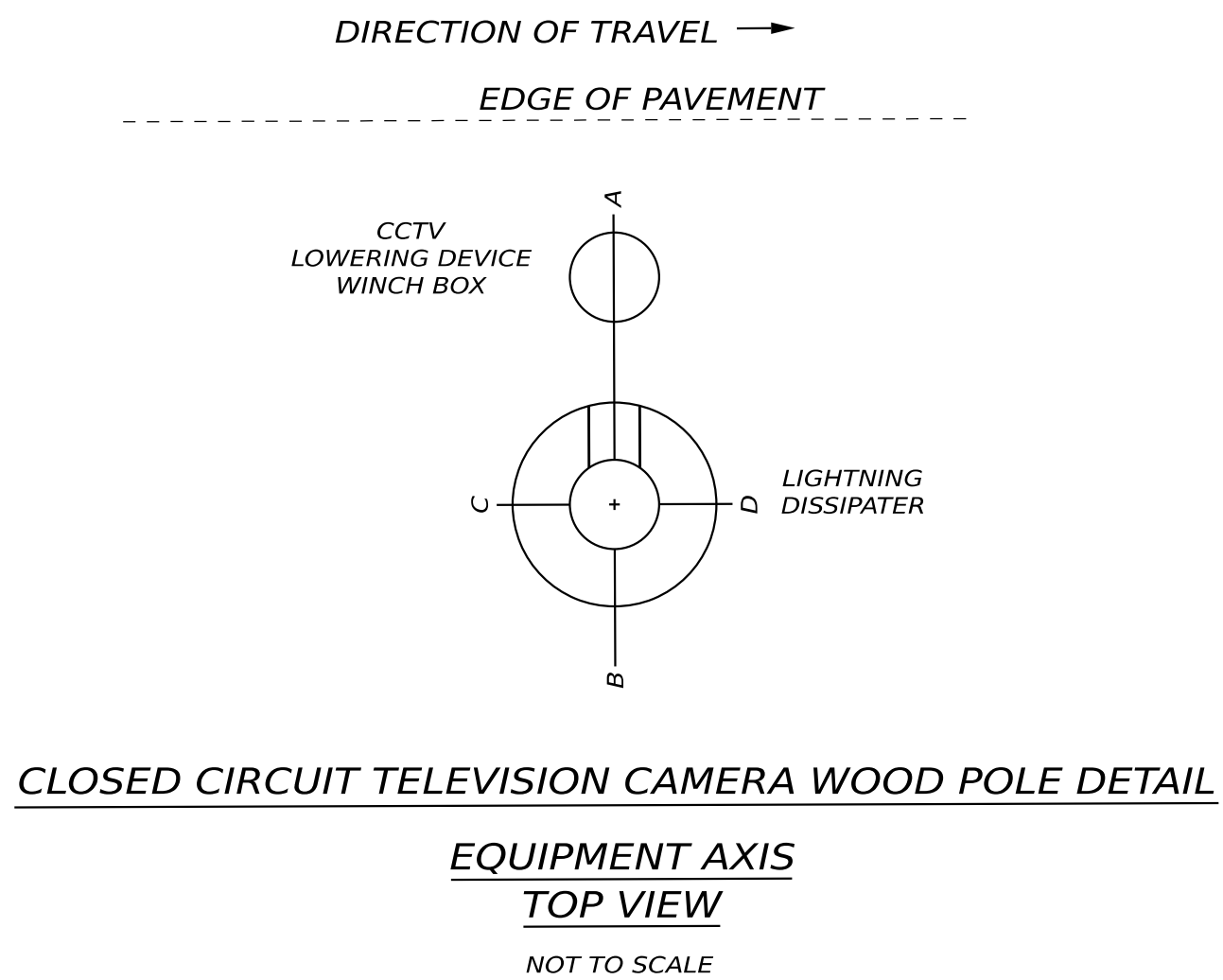
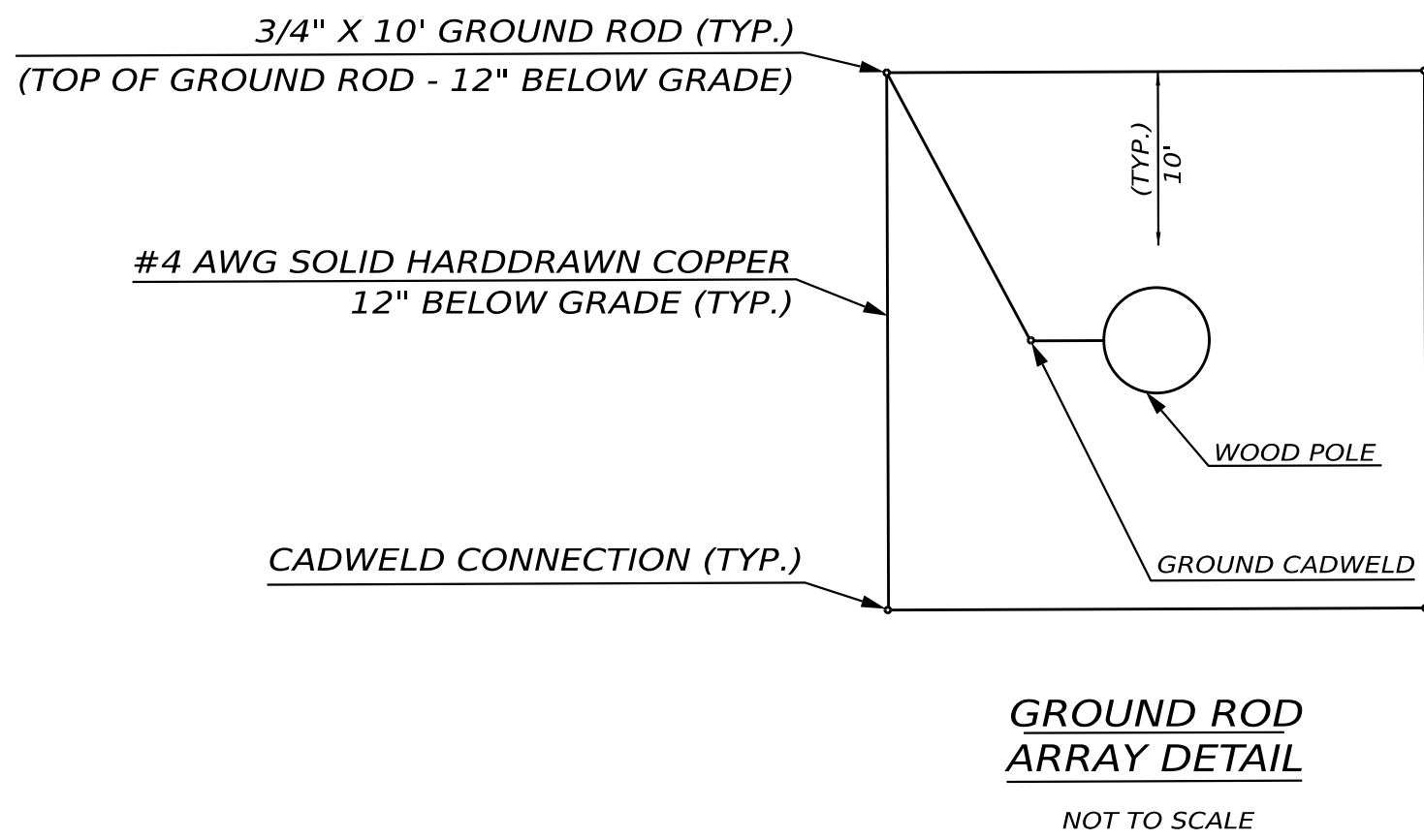
INSTALLATION OF HIGHWAY TRAFFIC CAMERAS

CONNECTION DETAILS - 1

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	DATE	BY	PROJ. MANAGER	DANIEL LORING	P.E.
	04/2026	ETH	DESIGNED-DETAILED	WVL	EDD
	04/2026	EDD	CHECKED-REVIEWED	EDD	EDD
2711400	SIGNATURE				
	P.E. NUMBER				
	DATE				
WIN 027114.00	REVISIONS 1				
	REVISIONS 2				
	REVISIONS 3				
		REVISIONS 4			
		FIELD CHANGES			



CLOSED CIRCUIT TELEVISION CAMERA WOOD POLE DETAIL
NOT TO SCALE



NOTES:
1. SEE GROUND ROD ARRAY DETAIL (THIS SHEET).

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2711400		WIN 027114.00	
INSTALLATION OF HIGHWAY TRAFFIC CAMERAS		CONNECTION DETAILS - 2		SHEET NUMBER 4 OF 10	
PROJ. MANAGER	DANIEL LORING	P.E.	DATE	SIGNATURE	P.E. NUMBER
DESIGNED-DETAILED	WWL	ETH	04/2026		
CHECKED-REVIEWED	EDD	EDD	04/2026		
DESIGNED-DETAILED	EDD	EDD			
DESIGNED-DETAILED	EDD	EDD			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES				DATE	



LIST OF MAJOR ITEMS			
DESCRIPTION	ITEM NO.	UNIT	QUANT
METALLIC CONDUIT	626.21	LF	25
NON-METALLIC CONDUIT	626.22	LF	25
HIGHWAY TRAFFIC CAMERA	654.10	EA	1
CAMERA CONNECTION - HIGH MAST LIGHT	654.102	EA	1
ETHERNET ROUTER	654.314	EA	1
COMMUNICATION SERVICE CONNECTION	654.332	LS	1
ELECTRICAL SERVICE CONNECTION	654.51	LS	1

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2711400
WIN
027114.00

INSTALLATION OF HIGHWAY
TRAFFIC CAMERAS

SITE 1: PITTSFIELD, I-95
SOUTH OF SOMERSET AVE

SHEET NUMBER

5
OF 10

PROJ. MANAGER	DANIEL LORING, P.E.	BY	DATE	SIGNATURE
DESIGNED-DETAILED	WVL	ETH	04/2026	
CHECKED-REVIEWED	EDD	EDD	04/2026	
DESIGNED-DETAILED	EDD			P.E. NUMBER
DESIGNED-DETAILED	EDD			DATE
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				