

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



CARMEL PENOBSCOT COUNTY TRACY BRIDGE OVER TRACY BROOK ROUTE 69 (HAMPDEN ROAD) BRIDGE NO. 5191

TRAFFIC DATA

Current (2008) AADT 1,340

HYDROLOGIC DATA

Drainage Area 22.3 sq mi
 Design Discharge (Q50) 1264 cfs
 Check Discharge (Q100) 1,449 cfs
 Headwater Elevation (Q50) 140.1 ft
 Headwater Elevation (Q100) 140.5 ft
 Discharge Velocity (Q50) 6.72 fps
 Discharge Velocity (Q100) 7.22 fps

LIST OF DRAWINGS

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UTILITIES

Bangor Hydro-Electric Company Time Warner Cable
 Cornerstone Communications OTT Communications

MAINTENANCE OF TRAFFIC

Contractor Shall Maintain a Minimum of One 11 Foot Lane of Alternating Traffic During Periods of Work. Road is to be Reopened to Traffic at the Close of Each Work Day.

PROJECT LOCATION:	Tracy Bridge (#5191) over the Tracy Brook on Route 69 (Hampden Road). Located 1.0 Mile North of I-95. Lat 44°47'23.5", Long. -68°02'21.1"
PROGRAM AREA:	Bridge
OUTLINE OF WORK:	Bridge Scour Countermeasures: Installation of Countermeasure over Full Channel Width and Incidental Work.

WIN 19314.00

19314.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
 ROBERT L. FALKNER No. 11944 LICENSED PROFESSIONAL ENGINEER		4/18/13
 JAMES P. QUANEY No. 11944 LICENSED PROFESSIONAL ENGINEER		4/18/13

PROJECT INFORMATION	BRIDGE	PROJECT NUMBER	19314
PROGRAM	R. Falkner	P.E. NUMBER	11944
PROJECT MANAGER	S. Johnson	DATE	4/12/2013
DESIGNER	CHA		
CONSULTANT			
PROJECT RESIDENT			
CONTRACTOR			
PROJECT COMPLETION DATE			

CARMEL TRACY BRIDGE
TITLE SHEET

SHEET NUMBER
1

OF 5

File name: \Carmel... *5191\001_Title.dgn Division: User name: Date: 4/15/2013

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203.20	COMMON EXCAVATION	CY	20
502.248	UNDERWATER GROUT BAGS	CY	1
502.83	CONCRETE CABLE MAT	SF	2200
511.07	COFFERDAM (LEFT ABUTMENT)	LS	1
511.07	COFFERDAM (RIGHT ABUTMENT)	LS	1
629.05	HAND LABOR, STRAIGHT TIME	HR	10
631.121	HVY DUTY ALL PURP EXC (INC OPER)	HR	10
631.172	TRUCK-LARGE (INC OPER)	HR	10
652.33	DRUM	EA	25
652.34	CONE	EA	25
652.35	CONSTRUCTION SIGNS	SF	100
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	1
652.38	FLAGGER	HR	250
656.75	TEMP SOIL EROSION & WATER POLLUTION CONTROL	LS	1
659.10	MOBILIZATION	LS	1

GENERAL CONSTRUCTION NOTES

1. If necessary, temporary one lane closure with flagged alternating one way traffic may be utilized during periods of work. Road is to be reopened to two-way traffic at the close of each work day. Subject to coordination with the Resident and the Town.
2. Left and Right designations are based on looking downstream.
3. Payment for equipment, labor, and materials to access the work, as well as re-establish original ground, will be considered incidental to related Contract Bid items.
4. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract Bid items.
5. Contractor shall be aware of overhead utilities parallel to the upstream fascia. Location of any additional utilities is unknown.
6. Plans of the existing structure will be made available to the Contractor for information only existing plans may not be current or "as-built".
7. Contractor shall field verify stream bed elevations along the upstream bridge fascia, downstream bridge fascia and along the centerline of the bridge. Streambed elevations shall be taken every 5 feet along all three lines and provided to the Resident. Resident will determine final streambed elevation(s) based on this information. This work shall not be paid for directly and will be considered incidental to related contract items.
8. Sections shown on the design plans depict "typical" conditions and the intent of the installation may need to be altered to fit actual site conditions as directed by the Resident.
9. Outlines of the countermeasure installation are approximate and represent the minimum dimensions desired. The Resident may direct modifications to fit site conditions.
10. Estimates of quantities are necessarily approximate. Payment will be made on actual quantities installed to the satisfaction of the Resident.
11. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:
 - a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - c. If a design change results in changes to estimate quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.
12. Excavation required for installation of countermeasure, as shown on the plans, shall be considered incidental to related Contract Bid Items. Quantity estimated for Item 203.20 shall be for any additional miscellaneous excavation, as directed by the Resident.
13. Grout testing and curing boxes shall be considered incidental to related Contract Bid Items.

CARMEL BR 5191 SCOUR COUNTERMEASURE INSTALLATION PLAN ESTIMATED QUANTITIES & GENERAL NOTES	STATE OF MAINE DEPARTMENT OF TRANSPORTATION BH-19314.00 WIN 19314.00 BRIDGE PLANS Bridge No. 5191
SHEET NUMBER <div style="font-size: 2em; font-weight: bold; margin: 5px 0;">2</div> OF 5	DATE: 4/2013 BY: M. Dames R. Faulkner S. Johnson B. Horne B. Horne SIGNATURE: _____ P.E. NUMBER: _____ DATE: _____

Date: 4/12/2013

Username:

Division:

Filename: ... \Carmel... \5191\003_Bridge.dgn

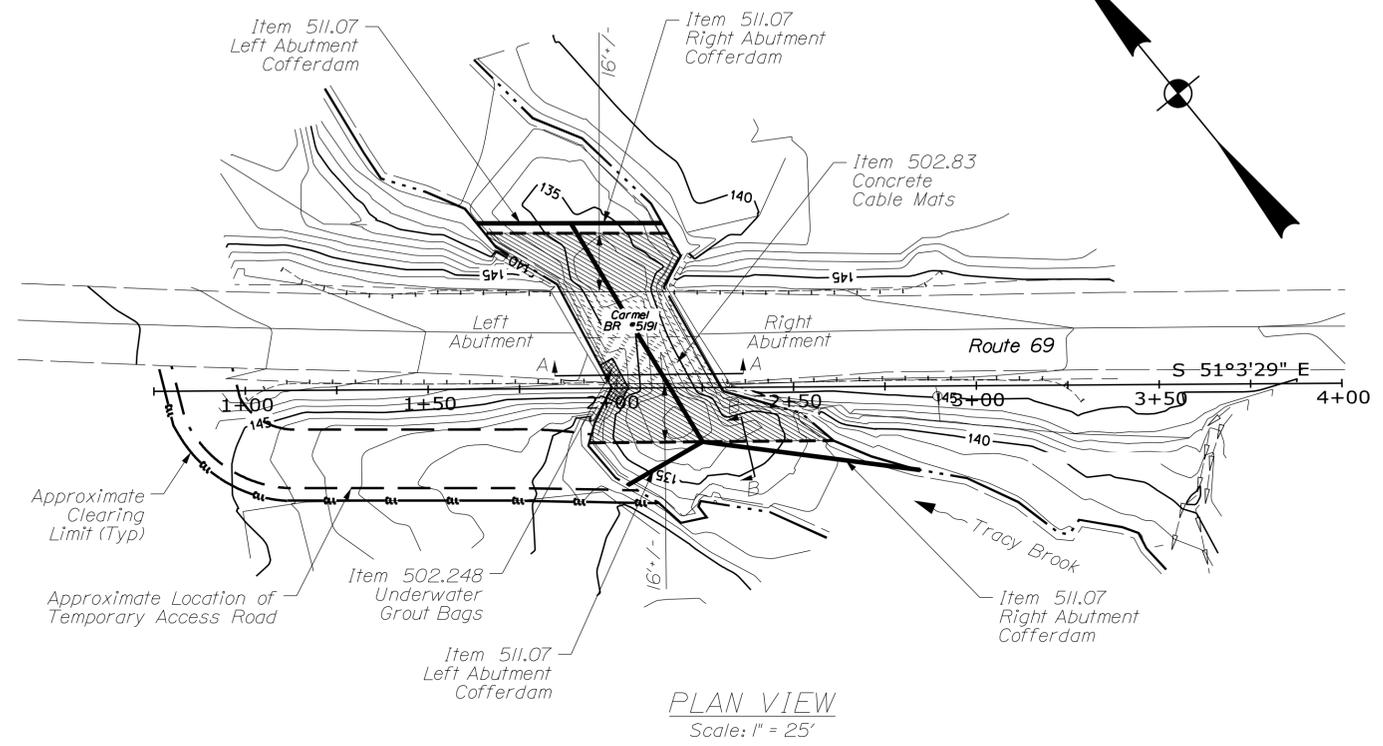
PLAN LEGEND

-  Proposed Concrete Cable Mats (Item 502.83)
-  Proposed Concrete Cable Mats Under Bridge (Item 502.83)
-  Proposed Underwater Grout Bags* (Item 502.248)

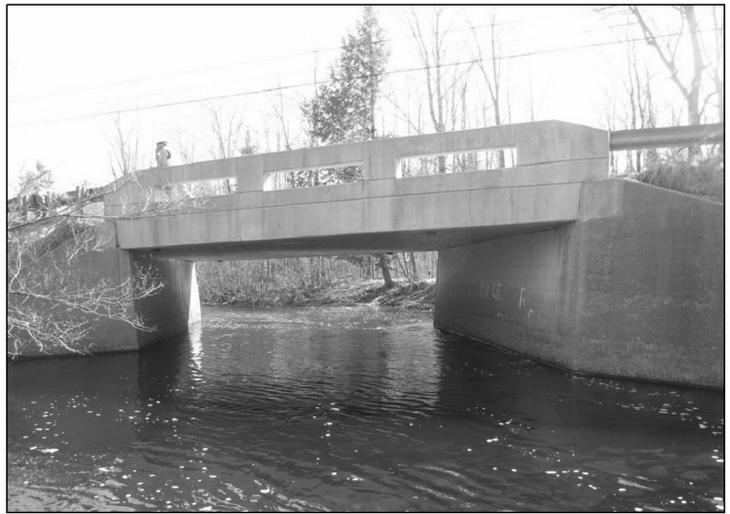
* Hand Placed Grout Bags and Pumped Grout to be Used For Undermining Repair of Footing at Corner of Abutment and Wingwall.

Note:

1. See Countermeasure Detail Sheet for Sections A-A and B-B.



Upstream Elevation



Downstream Elevation

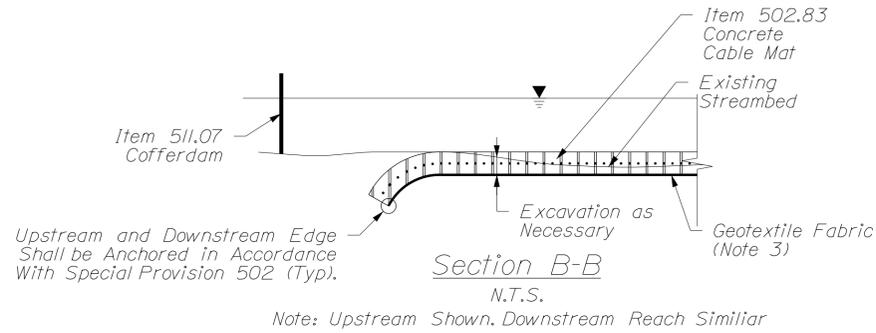
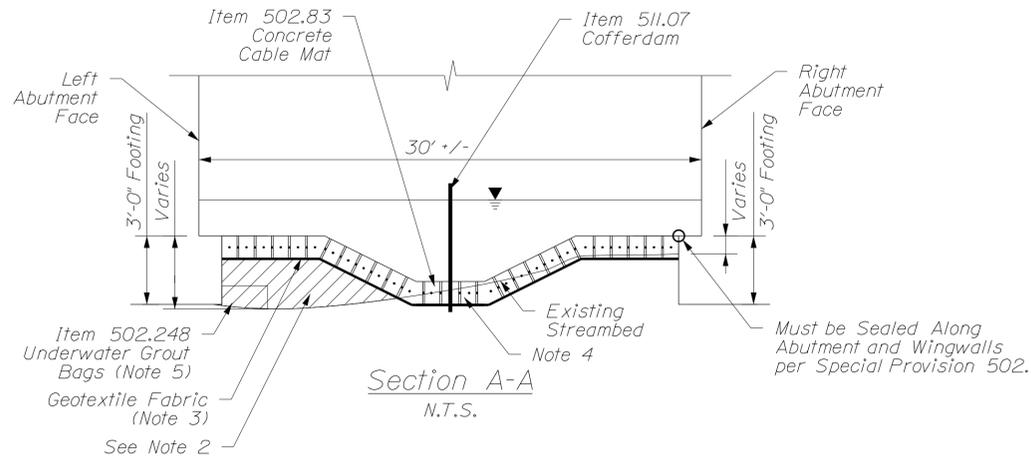


Right Abutment (Upstream)

Note: Straight Alignment Based Between Stations 2+00 and 2+31.4.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		BH - 19314.00		WIN 19314.00		BRIDGE PLANS	
CARMEL BR 5191 SCOUR COUNTERMEASURE INSTALLATION PLAN		PLAN		SHEET NUMBER		3	
OF 5		DATE		SIGNATURE		P.E. NUMBER	
FIELD CHANGES		REVISIONS 4		REVISIONS 3		REVISIONS 2	
REVISIONS 1		DESIGNS DETAILED		CHECKED/REVIEWED		BY	
R. Faulkner		S. Johnson		M. Dames		DATE	
B. Horne		B. Horne		4/2013		4/2013	

CONCRETE CABLE MATS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BH - 19314.00
WIN
19314.00
BRIDGE PLANS
Bridge No. 5191

PROJ. MANAGER	R. Faulkner	BY		DATE	
DESIGN DETAILED	S. Johnson	BY	M. Dames	DATE	4/7/2013
CHECKED/REVIEWED	B. Horne	BY	B. Horne	DATE	4/7/2013
DESIGNS DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

SIGNATURE	
P.E. NUMBER	
DATE	

CARMEL BR 5191
SCOUR COUNTERMEASURE
INSTALLATION PLAN
COUNTERMEASURE DETAIL

SHEET NUMBER
4
OF 5

- Notes:
1. Clearance From Low Chord on the Downstream Fascia to the Streambed During Field Visit on 4/27/2009 Varied From Approximately 9.5ft to 11.5ft with a Water Depth of Approximately 4ft to 5ft.
 2. Existing Streambed Shall be Leveled in Accordance With Ground Preparation Requirements as Stated in Special Provision 502. Material Required to Raise Streambed Elevation Shall be Considered Incidental to Related Contract Bid Items.
 3. Concrete Cable Mats Shall Bear Directly on Geotextile Fabric, Which Shall be Considered Incidental to Item 502.83.
 4. For Required Low Flow Channel Dimensions, See Special Provision 502 (Concrete Cable Mats) Upstream and Downstream Transition of Low Flow Channel to Existing Streambed Shall be as Directed by Resident.
 5. Grout Bag Repair Shall be Performed Within a Cofferdam and Cover an Area of Approximately Four Feet Long by Two Feet Wide by 1 Foot Tall, or as Modified by Resident.

Date: 4/12/2013

Username:

Division:

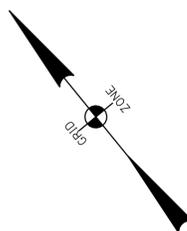
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Username: ben.condon

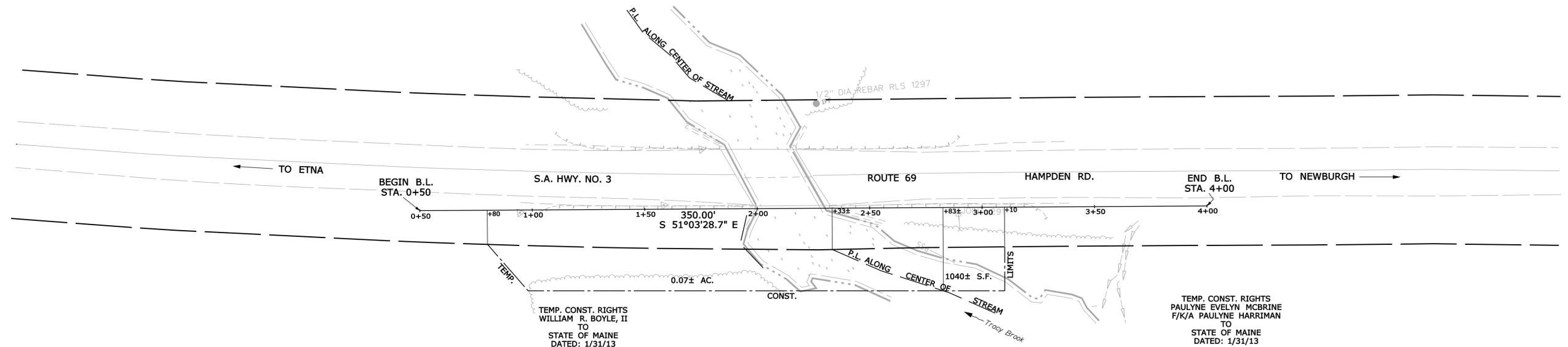
Division: BRIDGE

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JEFFREY A. MCGOWN
SUSAN B. MCGOWN

GARY L. VERRILL



WILLIAM R. BOYLE, II
ITEM NO. (1)
TEMP. CONST. RIGHTS = 0.07± AC. (1)
TOTAL AREA = 10.00± AC. (PER TOWN)

TEMP. CONST. RIGHTS
WILLIAM R. BOYLE, II
TO
STATE OF MAINE
DATED: 1/31/13

TEMP. CONST. RIGHTS
PAULYNE EVELYN MCBRINE
F/K/A PAULYNE HARRIMAN
TO
STATE OF MAINE
DATED: 1/31/13

PAULYNE EVELYN MCBRINE
F/K/A PAULYNE HARRIMAN
ITEM NO. (2)
TEMP. CONST. RIGHTS = 1040± S.F. (1)
TOTAL AREA = 1± AC. (PER DEED)

R/W REFERENCE:
HANCOCK COUNTY
VOL. 2, PAGE 36
1813, 4 RODS

BRIDGE NO. 5191
TRACY BRIDGE
OVER
TRACY BROOK
WIN 19314.00

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJUTING PROPERTY OWNERS.

SYMBOLS

• IP or • IPR (IRON PIPE OR PIN FOUND)	○ WELLS
□ S.T. (SEPTIC TANK)	— GRADING LIMIT LINE
△ BM (TRANSVERSE POINT)	— CONSTRUCTION LIMIT LINE
— WATER LINE	— PROPERTY LINE
— GAS LINE	— LIMITS OF WROUGHT PORTION (LOWP.)
— ELECTRIC LINE	— EXISTING RIGHT OF WAY
— TELEPHONE LINE	— NEW RIGHT OF WAY
— SEWER LINE	— NEW ROW WITHIN EXIST. ROW
	— CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W		
PROP. LINES	BDM	
AREAS	BDM	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
CARMEL
RIGHT OF WAY MAP

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK		PAGE		COUNTY RECORD	
				NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

PLAN NOT TO BE RECORDED

STATE AID HIGHWAY NO. 3
ROUTE 69 HAMPDEN ROAD
CARMEL PENOBSCOT COUNTY
STATE PROJECT NO. 19314.00
DECEMBER 2012 RIGHT-OF-WAY MAP
SCALE 1" = 25' SHEET 1 OF 1
D.O.T. FILE NO. 10-481

SHEET NUMBER
5
OF 5