

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



MILLINOCKET

PENOBSCOT

ROUTE 157/KATAHDIN AVE

STP-1906(500)X

PROJECT LENGTH : 0.031 MILES

PLAN LEGEND

Town, County, State	Centerline-Existing	Centerline-Proposed
Property Lines	Travelway-Existing	Travelway-Proposed
R/W Lines-Existing	Railroad	Catch Basins
R/W Lines-Proposed	Catch Basins	Existing
Culvert-Existing	Proposed	Manholes
Culvert Proposed	Manholes	Existing
Curbing	Existing	Proposed
Type 1	Proposed Underdrain	Proposed
Type 3	Proposed Ditch	Existing Ditch
Type 5	Existing Ditch	Utility Poles
Outline of Bodies of Water	Utility Poles	Existing
Ledge	Fire Hydrants	Existing
Buildings	Existing Water Line	Proposed
Trees	Existing San. Sewer	Existing
Tree Line	Existing San. Sewer Manhole	Proposed
Clearing Limit Line	Guardrail-Existing	Guardrail-Proposed
	Guardrail-Proposed	Guardrail-Cable, Other

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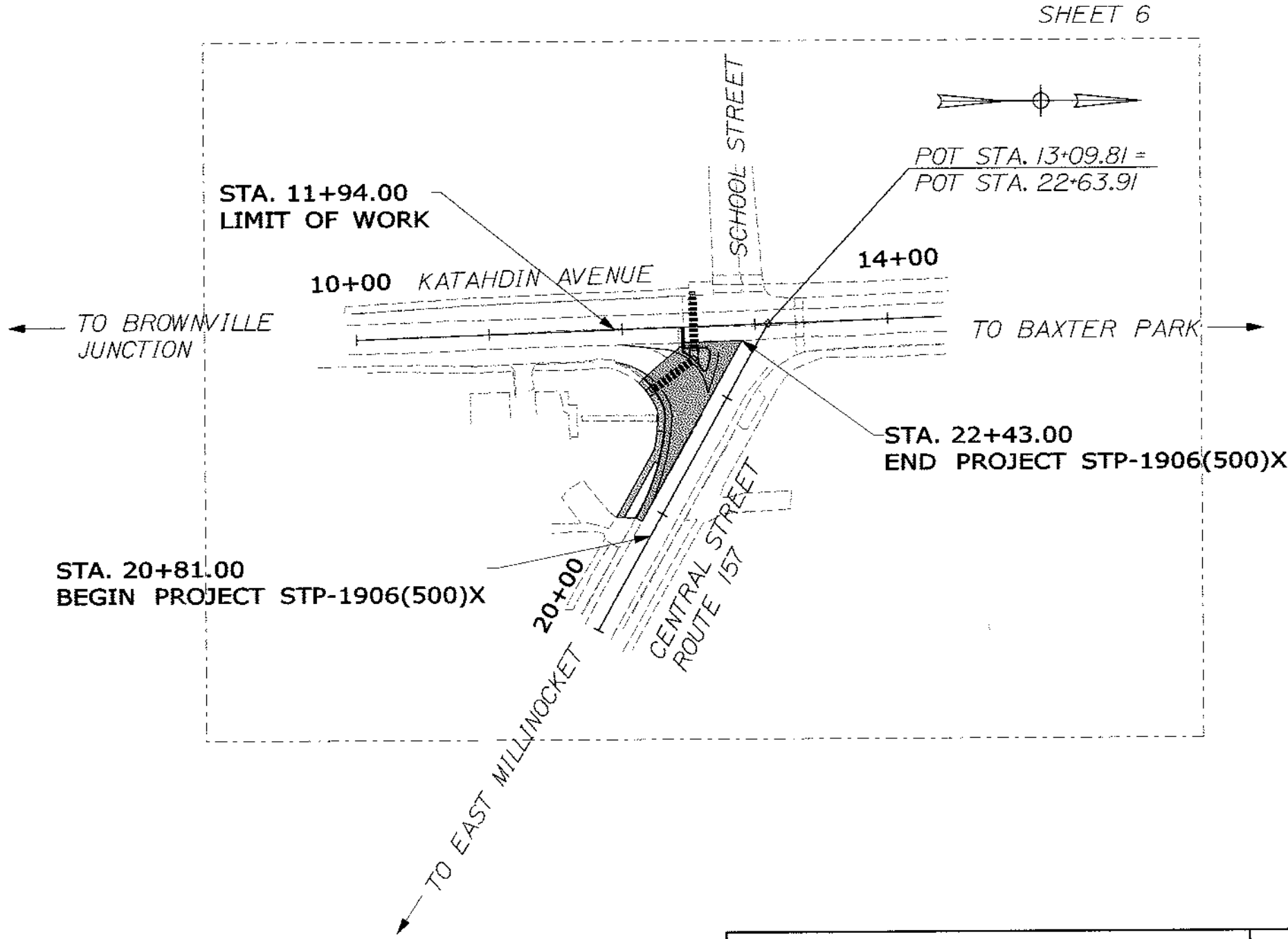
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER	6/18/12
	CHIEF ENGINEER	6/18/12

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE	DATE
	JAMES L. EASON No. 7960	JUNE 12, 2012
	P.E. NUMBER	DATE

PROJECT INFORMATION	PROGRAM	TRAFFIC
PROJECT MANAGER	BRIAN KEETZER	
DESIGNER	A. GODFREY/J. EASON	
CONSULTANT	TERRA MAGNA SERVICES, INC.	
PROJECT RESIDENT		
CONTRACTOR		
PROJECT COMPLETION DATE		

MILLINOCKET ROUTE 157/KATAHDIN AVE	TITLE SHEET
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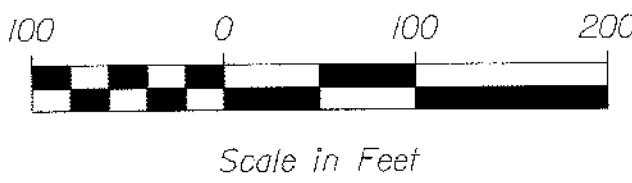
SHEET NUMBER	1
OF 10	



TRAFFIC DATA

	KATAHDIN S/O CENTRAL	CENTRAL SE/O KATAHDIN
Current (2012) AADT	5,030	6,020
Future (2022) AADT	5,530	6,620
DHV - % of AADT	9.5%	9%
Design Hour Volume	574	650
% Heavy Trucks (AADT)	7%	9%
% Heavy Trucks (DHV)	6%	8%
Directional Distribution (DHV)	55%	55%
18 kip Equivalent P 2.0	381	526
18 kip Equivalent P 2.5	363	501
Design Speed (mph)	25	25
Functional Class:	MAJOR COLLECTOR	MINOR ARTERIAL

LAYOUT SCALE



PROJECT LOCATION:

In the town of Millinocket at the intersection of Katahdin Avenue and Central Street (Route 157)

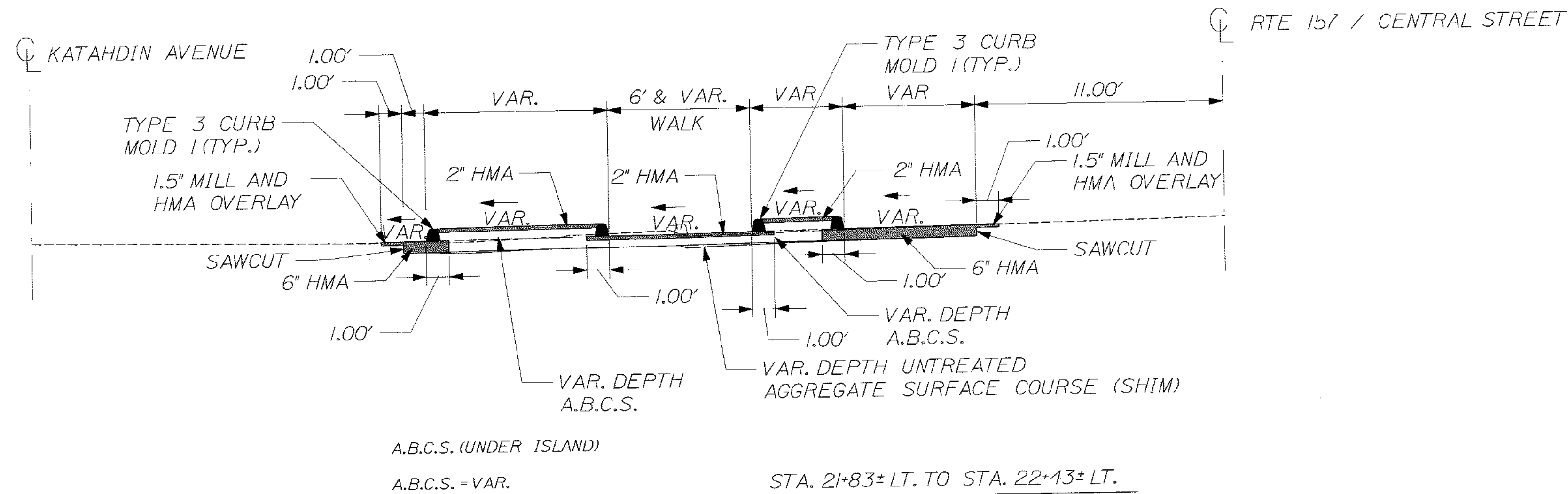
PROGRAM AREA:

Traffic: Operational and Safety Improvements

SCOPE OF WORK:

Intersection improvements with rebuilt island and sidewalk

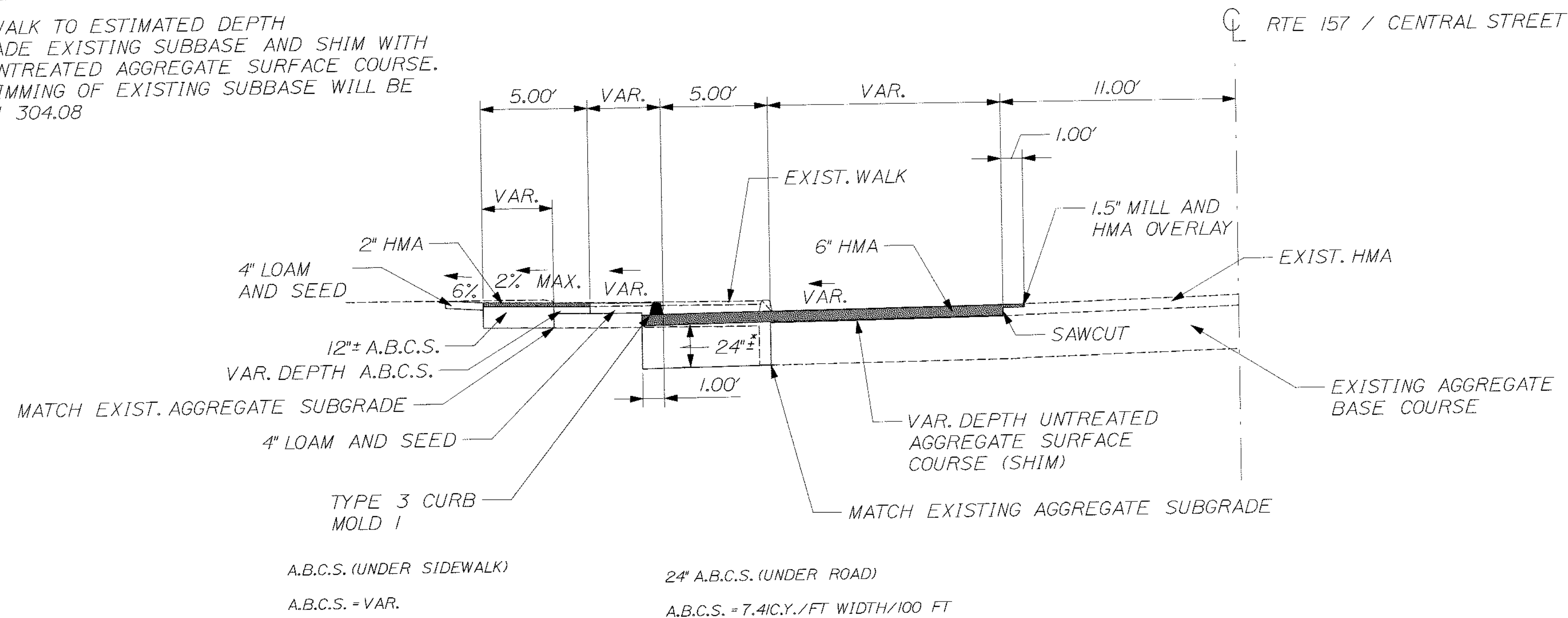
WIN 19065.00 STP-1906(500)X



REMOVE EXISTING PAVEMENT AND RAISED ISLAND TO ESTIMATED DEPTH OF 6 INCHES. REGRADE EXISTING SUBBASE AND SHIM WITH VARIABLE DEPTH UNTREATED AGGREGATE SURFACE COURSE. REGRADING AND SHIMMING OF EXISTING SUBBASE WILL BE INCIDENTAL TO ITEM 304.08.

STA. 20+81± LT. TO STA. 21+83±

REMOVE EXISTING WALK TO ESTIMATED DEPTH OF 6 INCHES. REGRADE EXISTING SUBBASE AND SHIM WITH VARIABLE DEPTH UNTREATED AGGREGATE SURFACE COURSE. REGRADING AND SHIMMING OF EXISTING SUBBASE WILL BE INCIDENTAL TO ITEM 304.08



STA. 20+88± LT. TO STA. 21+83± LT.

REMOVE EXISTING PAVEMENT TO ESTIMATED DEPTH OF 6 INCHES. REGRADE EXISTING SUBBASE AND SHIM WITH VARIABLE DEPTH UNTREATED AGGREGATE SURFACE COURSE. REGRADING AND SHIMMING OF EXISTING SUBBASE WILL BE INCIDENTAL TO ITEM 304.08

* STA. 20+88± LT. TO STA. 21+73± LT.

WIDEN FULL DEPTH 6" HMA PAVEMENT AND APPROXIMATELY 24" A.B.C.S.

NOTE:

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. A.B.C.S. = AGGREGATE BASE COURSE - SCREENED
H.M.A. = HOT MIX ASPHALT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-1906(500)X WIN 19065.00 HIGHWAY PLANS	STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-1906(500)X WIN 19065.00 HIGHWAY PLANS
MILLINOCKET ROUTE 157/KATAHDIN AVE TYPICAL SECTIONS	
SHEET NUMBER 2 OF 10	

NOT TO SCALE

GENERAL NOTES

1. THE UTILITIES WITHIN THE PROJECT LIMITS ARE AS FOLLOWS:
- BANGOR HYDROELECTRIC COMPANY

NORTHERN NEW ENGLAND TELEPHONE COMPANY

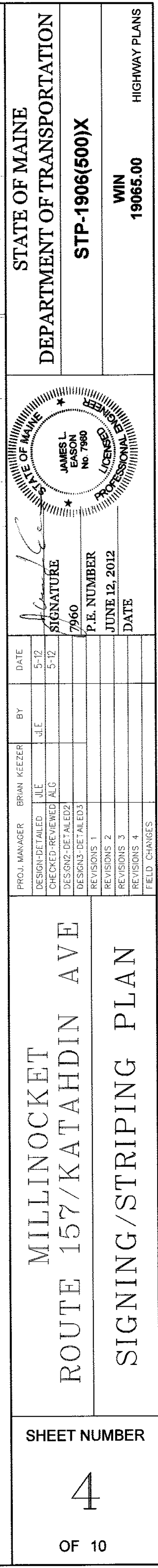
BEE LINE TV, INC.

MAINE FIBER COMPANY

TOWN OF MILLINOCKET (SEWER)

MAINE WATER COMPANY
2. NO UTILITY INVOLVEMENT IS ANTICIPATED.
3. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER ITEM 202.203 PAVEMENT BUTT JOINT.
4. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.
5. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.
6. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE SHOULDER PAVEMENT WILL HAVE SAME SLOPE AS TRAVELED WAY.
7. BACKING UP BITUMINOUS CURB IS INCIDENTAL TO THE CURB ITEMS. IN AREAS WHERE NEW BITUMINOUS CURB IS DESIGNATED TO REPLACE EXISTING, THE REMOVAL OF THE OLD BITUMINOUS CURB SHALL BE INCIDENTAL TO THE NEW CURB.
8. LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
9. UNLESS OTHERWISE NOTED SEEDING METHOD NO.1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS.
10. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES UNLESS OTHERWISE DIRECTED.
11. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT, BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF ITEM 627.76
12. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
13. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.
14. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
15. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.
17. PAYMENT UNDER ITEMS 645.106 AND 645.116 FOR DEMOUNTING AND REINSTALLING A SIGN ASSEMBLY WITH MORE THAN ONE SIGN ON A SINGLE POST WILL BE PAID AS A SINGLE UNIT EACH FOR THE ASSEMBLY.
18. ALL PAVED WALKS TO BE CONSTRUCTED WITH 12" AGGREGATE BASE COURSE - SCREENED AND 2" HOT MIX ASPHALT UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
19. PAYMENT FOR REINSTALLING SIGNS UNDER ITEM 645.116 WILL INCLUDE REPLACEMENT OF THE SIGN POSTS.
20. ANY NECESSARY CUTTING OF EXISTING PIPES OR CATCH BASINS FOR PIPE CONNECTIONS TO NEW AND REBUILT CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO SECTION 604 ITEMS.
21. ACRYLIC LATEX COLOR FINISH GREEN (ITEM 658.20) SHALL BE PLACED ON ALL PAVED ISLANDS.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-1906(500)X		WIN 19065.00		HIGHWAY PLANS	
STATE OF MAINE JAMES L. No. 7960 LICENSED PROFESSIONAL		SIGNATURE 7960		P.E. NUMBER JUNE 12, 2012		DATE	
PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		BY JLE		DATE 5-12 5-12			
MILLINOCKET ROUTE 157/KATAHDIN AVE		GENERAL NOTES					
SHEET NUMBER 3 OF 10							



11+00

KATAHDIN AVENUE 12+00

13+00

22-21.2, 47.50' LT.
373.35±

22-18.2
34.65' LT.
373.26

22-23.6, 35.59' LT.
373.14
(GUTTER)

22-25.0, 29.04' LT.
373.30

22-25.0,
11.00' LT.
373.54±

22-08.5,
11.00' LT.
373.43

22-82.7, 61.86' LT.
373.3±

22-75.0, 42.90' LT.
373.01
(GUTTER)

21-50.0, 26.87' LT.
373.14

21-25.0,
19.50' LT.
373.27

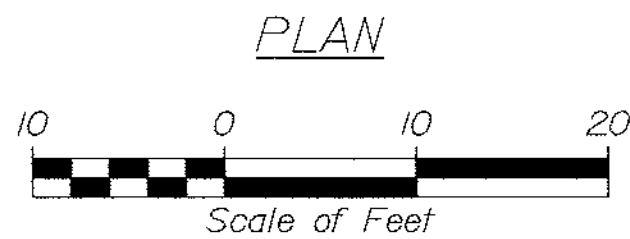
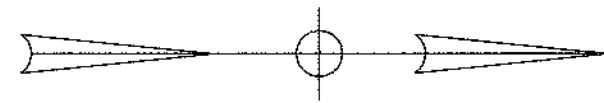
21-00.0,
16.00' LT.
373.40

20-87.9,
16.00' LT.
373.46±

RTE 157 / CENTRAL STREET

22+00

SAWCUT
LINE

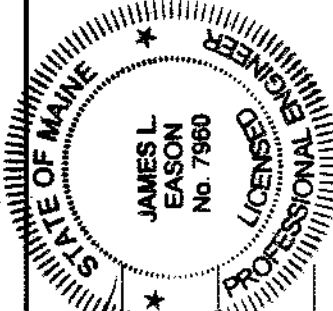


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1906(500)X

WIN
19065.00

HIGHWAY PLANS



SIGNATURE
JAMES L. EASON
7960
P.E. NUMBER
JUNE 12, 2012
DATE

POOL MANAGER	BRIAN KEEZER	BY	DATE
DESIGN-DETAILED	JLE	JLE	5-12
CHECKED-REVIEWED	ALG		5-2
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MILLINOCKET
ROUTE 157/KATAHDIN AVE

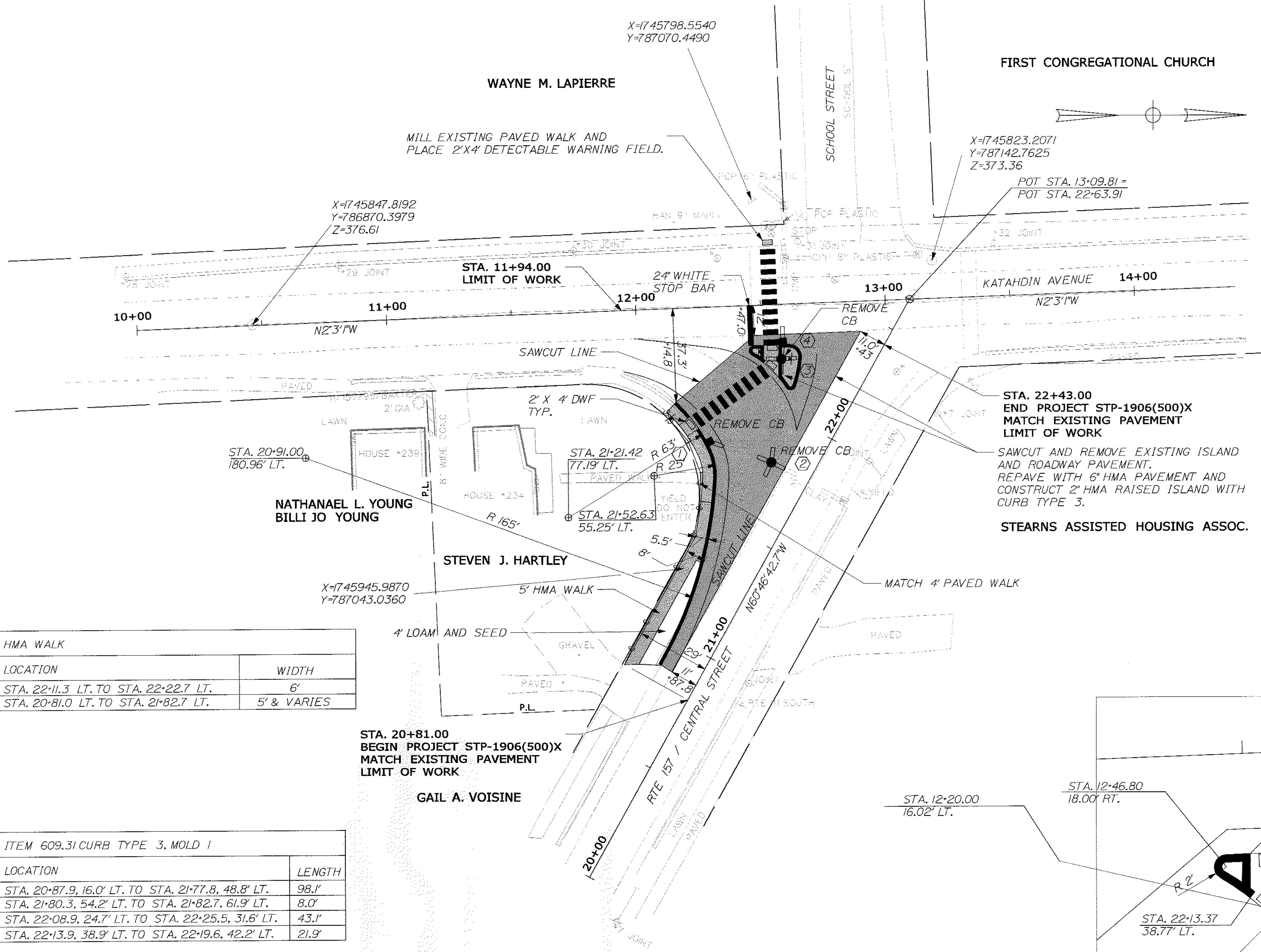
ELEVATION PLAN

SHEET NUMBER

5

OF 10

DWF = DETECTABLE WARNING FIELD



HMA WALK	
LOCATION	WIDTH
STA. 22+11.3 LT. TO STA. 22+22.7 LT.	6'
STA. 20+81.0 LT. TO STA. 21+82.7 LT.	5' & VARIES

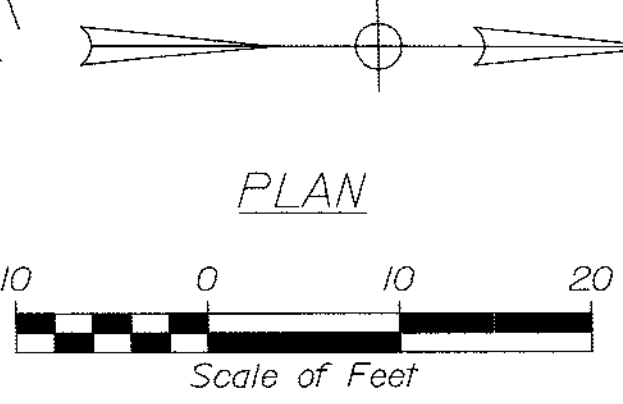
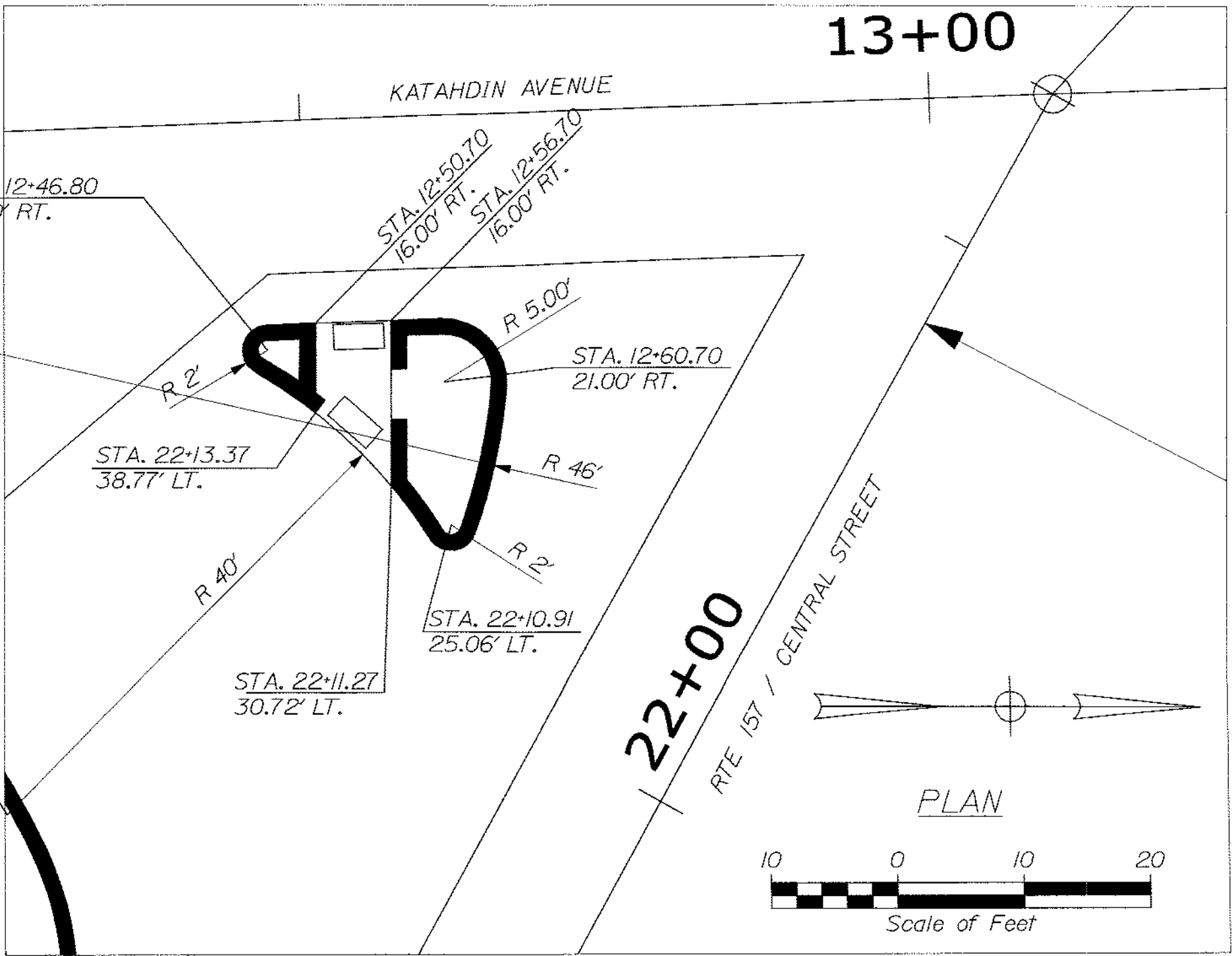
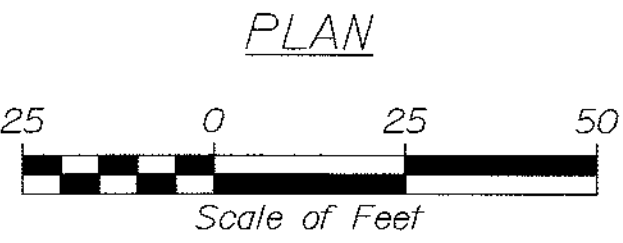
ITEM 609.31 CURB TYPE 3, MOLD 1	
LOCATION	LENGTH
STA. 20+87.9, 16.0' LT. TO STA. 21+77.8, 48.8' LT.	98.1'
STA. 21+80.3, 54.2' LT. TO STA. 21+82.7, 61.9' LT.	8.0'
STA. 22+08.9, 24.7' LT. TO STA. 22+25.5, 31.6' LT.	43.1'
STA. 22+13.9, 38.9' LT. TO STA. 22+19.6, 42.2' LT.	21.9'

ITEM 608.26 - CURB RAMP DETECTABLE WARNING FIELD	
LOCATION	SIZE
21+79 LT.	2'X4'
22+13 LT.	2'X4'
12+54 RT.	2'X4'
12+54 LT.	2'X4'

- NOTES:
- ANY PIPE NECESSARY TO REFIT EXISTING DRAINAGE SYSTEM TO PROPOSED BASINS SHALL BE CONSIDERED INCIDENTAL TO ITEM 604.
- ① REMOVE EXISTING CATCH BASIN AND REPLACE WITH NEW CATCH BASIN, TYPE BI-C.
- ② REMOVE EXISTING CATCH BASIN AND REPLACE WITH MANHOLE.
- ③ REMOVE EXISTING CATCH BASIN AND REPLACE WITH MANHOLE.
- ④ NEW CATCH BASIN, TYPE BI-C.

ITEM 604.092 - CATCH BASIN TYPE BI-C	
LOCATION	
①	STA. 21+75.5, 42.3' LT.
④	STA. 22+24.5, 36.2' LT.

ITEM 604.15 - MANHOLE	
LOCATION	
②	STA. 21+80.2, 16.8' LT.
③	STA. 22+18.2, 33.4' LT.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1906(500)X

WIN
19065.00
HIGHWAY PLANS

SALE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

DATE
JUNE 12, 2012

DATE
5-12

BY
JLE

PROJ. MANAGER
BRYAN KEEZER

DESIGN-DETAILED
JLE

CHECKED-REVIEWED
ALG

DESIGN-DETAILED
JLE

DESIGN-DETAILED
JLE

REVISIONS
1

REVISIONS
2

REVISIONS
3

REVISIONS
4

FIELD CHANGES

MILLINOCKET
ROUTE 157/KATAHDIN AVE

PLANS

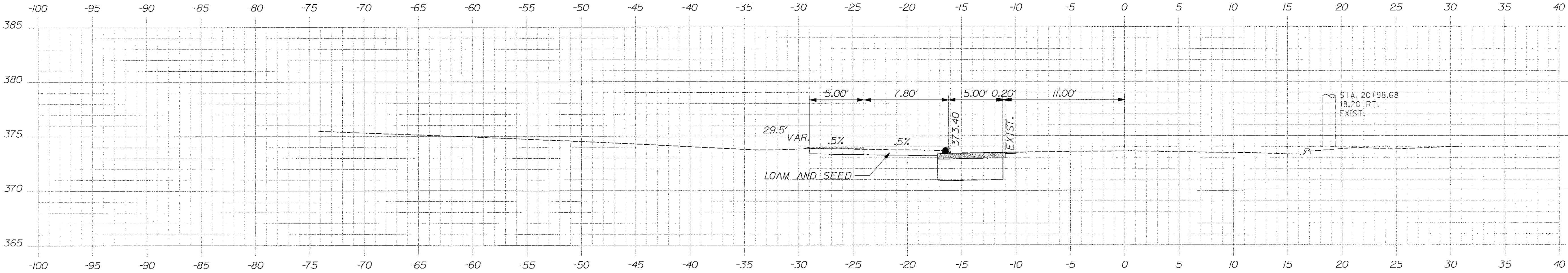
SHEET NUMBER
6
OF 10

Date: 6/12/2012

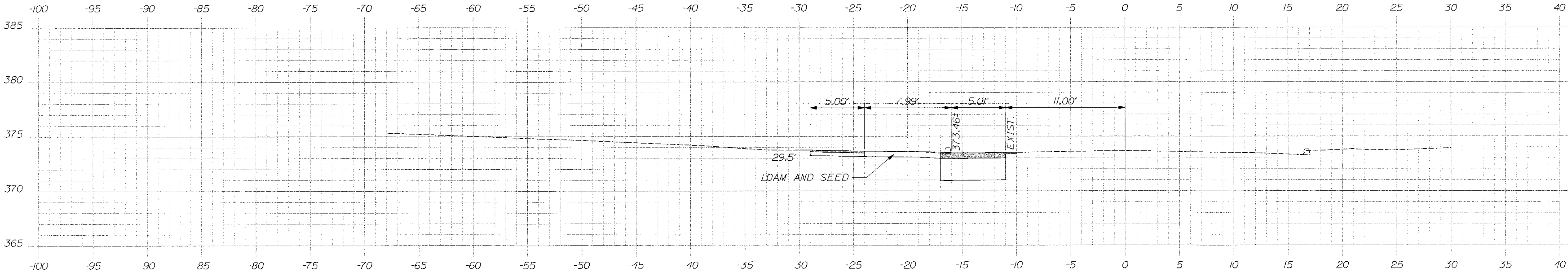
Username: jason

Division: HIGHWAY

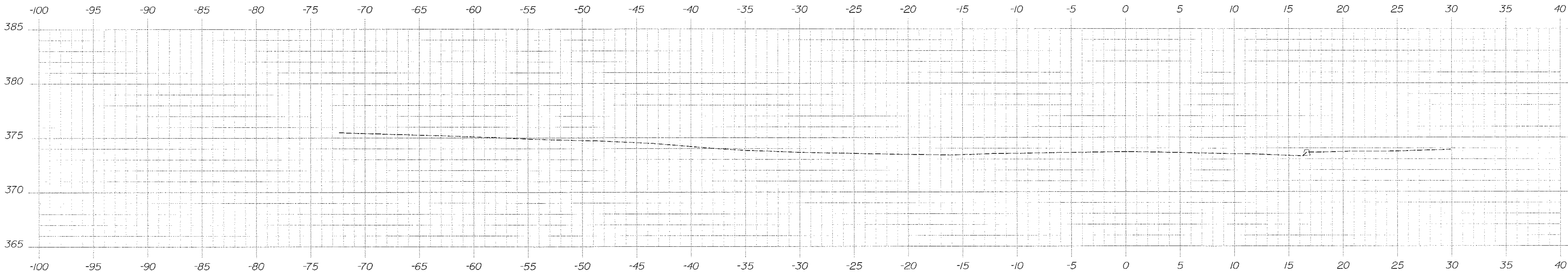
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21+00.00
STA. 20+87.9 TO STA. 21+73 LT.
FULL DEPTH WIDEN EXISTING PAVEMENT.



20+87.86
STA. 20+81.0 LT.
BEGIN PROJECT STP-1906(500)X



20+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1906(500)X

WIN
19065.00

HIGHWAY PLANS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

AMERL EASON
No. 7980

SIGNATURE

7960

JUNE 12, 2012

DATE

PROFESSIONAL

REVISIONS

1

2

3

4

FIELD CHANGES

MILLINOCKET
ROUTE 157/KATAHDIN AVE

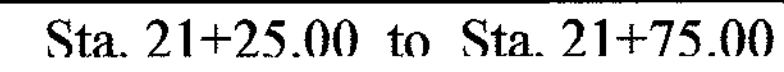
CROSS SECTIONS

SHEET NUMBER

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OF 10

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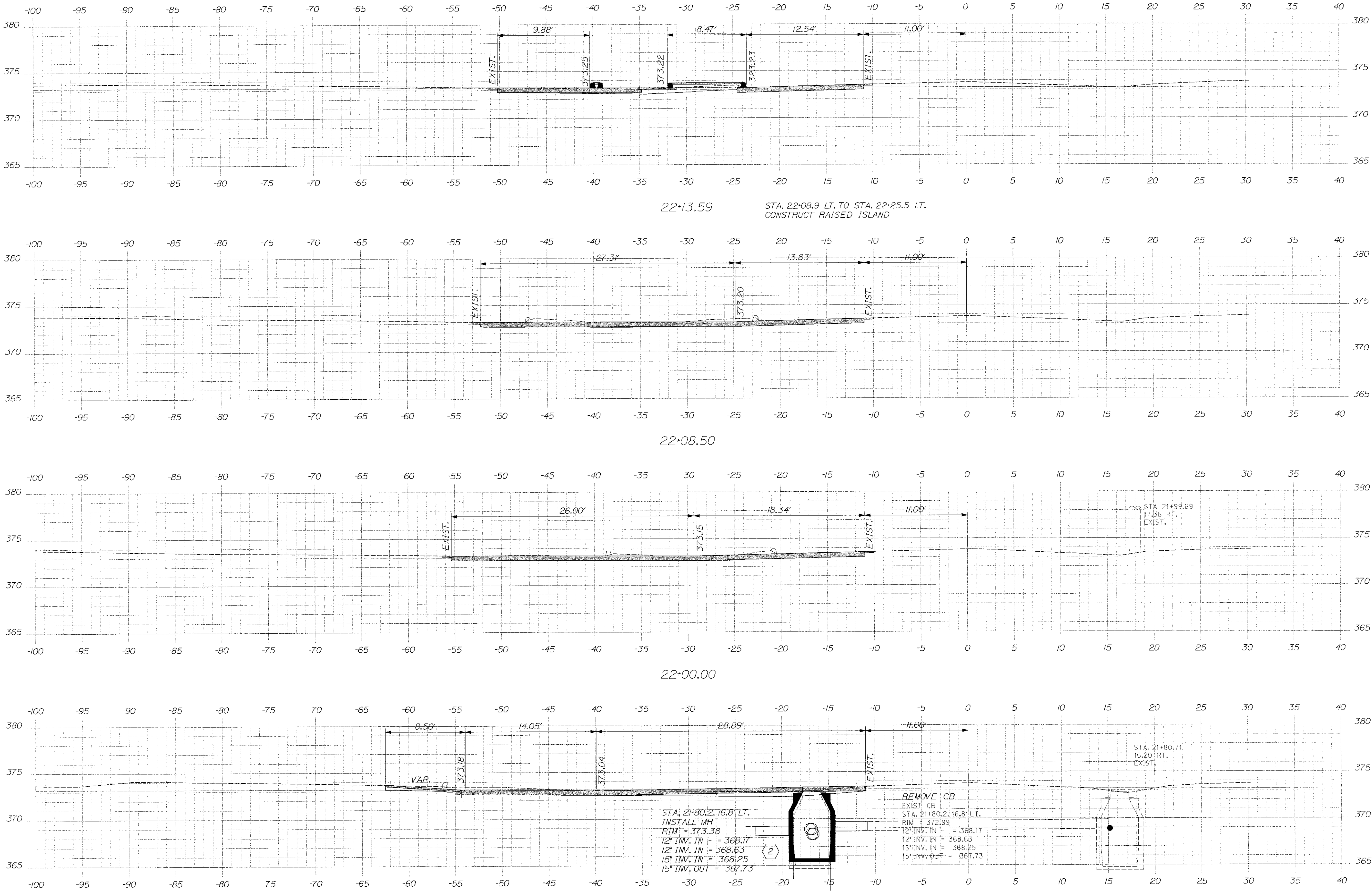
	STATE OF MAINE	
	DEPARTMENT OF TRANSPORTATION	
STP-1906(500)X		WIN 19065.00
SIGNATURE <i>James L. Eason</i> 7960 P.E. NUMBER JUNE 12, 2012 DATE		
PROJ. MANAGER BRIAN KEEZER BY JLE DATE 5-12		
DESIGN DETAIL ALG CHECKED/REVIEWED ALG DATE 5-12		
DESIGN DETAIL DESIGNS DETAIL REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		
MILLINOCKET ROUTE 157/KATAHDIN AVE CROSS SECTIONS		
SHEET NUMBER 00 OF 10		

Date: 6/12/2012

Username: jason

Division: HIGHWAY

Filename: ...\\STA\\009_XSECT_21+80_003.dgn



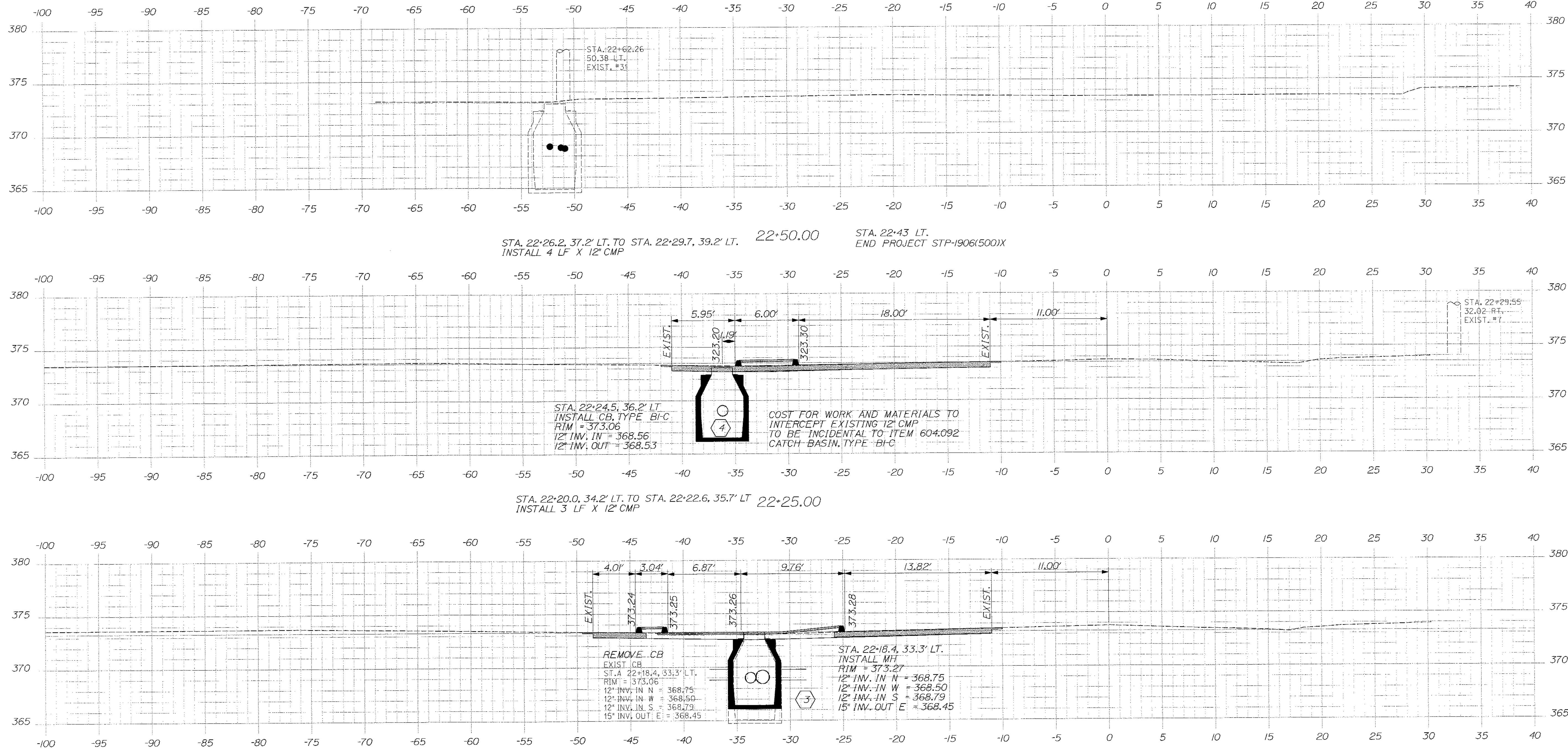
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-1906(500)X		WIN 19065.00		HIGHWAY PLANS	
		SIGNATURE JAMES L. EASON		P.E. NUMBER 7960		DATE JUNE 12, 2012	
PROJ. MANAGER BRIAN KEEZER	DESIGN-DETAILED JULE	CHECKED-REVIEWED ALG	DESIGN-DETAILED 02	DESIGN-DETAILED 03	REVISIONS 1	REVISIONS 2	REVISIONS 3
MILLINOCKET ROUTE 157/KATAHDIN AVE				CROSS SECTIONS			
SHEET NUMBER 9				OF 10			

Date:6/12/2012

Username: jeason

Division: HIGHWAY

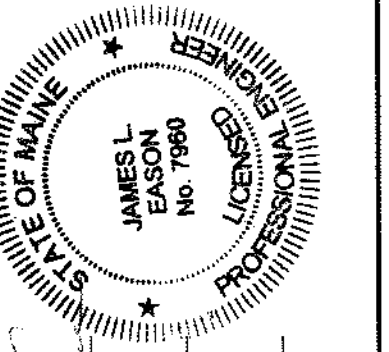
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22+18.17

Sta. 22+18.17 to Sta. 22+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1906(500)X
WIN
19065.00
HIGHWAY PLANS



SIGNATURE
7960
P.E. NUMBER
JUNE 12, 2012
DATE

DATE	BY	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
5-12	JLE	BRIAN KEETZER	JLE	ALC							

MILLINOCKET
ROUTE 157/KATAHDIN AVE
CROSS SECTIONS

SHEET NUMBER
10
OF 10