

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

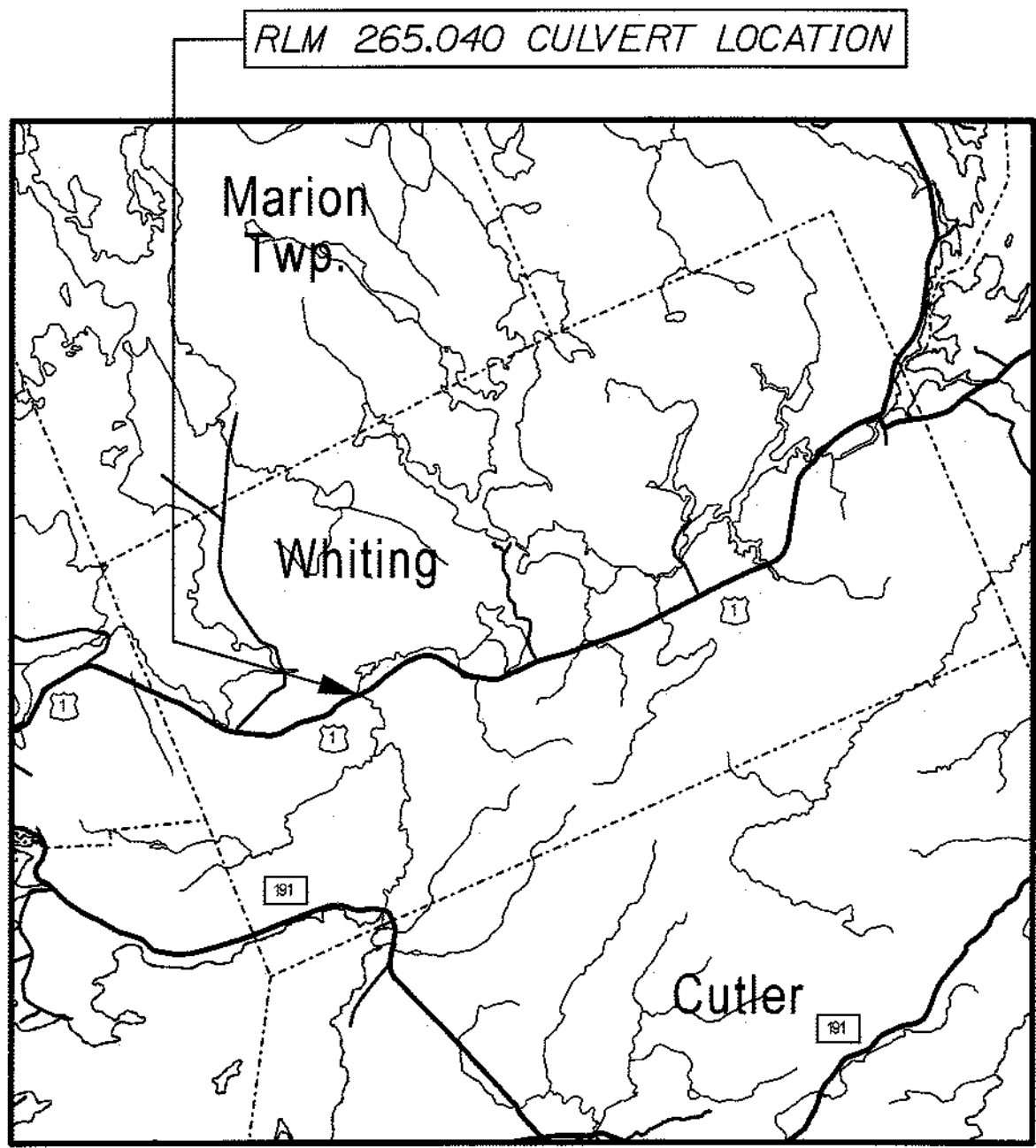


WHITING
WASHINGTON COUNTY

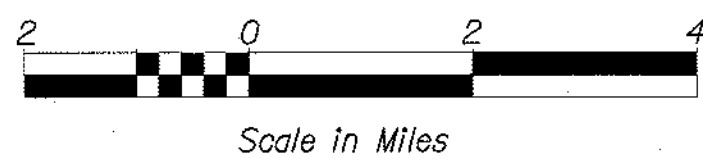
ROUTE 1

017541.00

PROJECT LENGTH: 0.028 MILES
STRUT REPLACEMENT



LOCATION MAP



Scale in Miles

TO EAST MACHIAS

TO EDMUNDS

WIN 17541.00
STA. 155+50 (WIN 17541.00) = STA. 89+52 (WIN 18059.00)
BEGIN RLM: 265.026

WIN 17541.00
STA. 157+00 (WIN 17541.00) = STA. 91+02 (WIN 18059.00)
END RLM: 265.054

TRAFFIC DATA

Current (2010) AADT 2370
Future (2022) AADT 2650
DHV - % of AADT 11%
Design Hour Volume 292
% Heavy Trucks (AADT) 10%
% Heavy Trucks (DHV) 10%
Directional Distribution (DHV) ... 55%
18 kip Equivalent P 2.0 110
18 kip Equivalent P 2.5 105
Design Speed (mph) 55
Functional Class: MINOR ARTERIAL

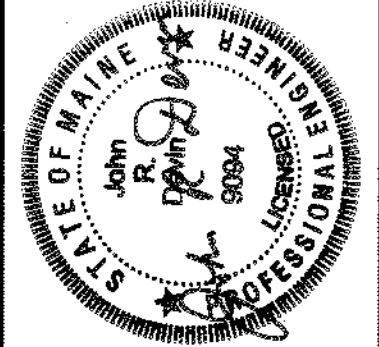
LAYOUT SCALE



Scale in Feet

PROGRAM AREA: STRUTS: REGION 4
SCOPE OF WORK: STRUT REPLACEMENT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER:	3/4/11	3/4/11
CHIEF ENGINEER:		



SIGNATURE	P.E. NUMBER	DATE
John R. Quinn	9094	3/3/2011

PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
HIGHWAY	EMORY LOVELY	LUCAS SOO				

WIN 17541.00

017541.00

WHITING ROUTE 1	TITLE SHEET
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SHEET NUMBER

1

OF 6

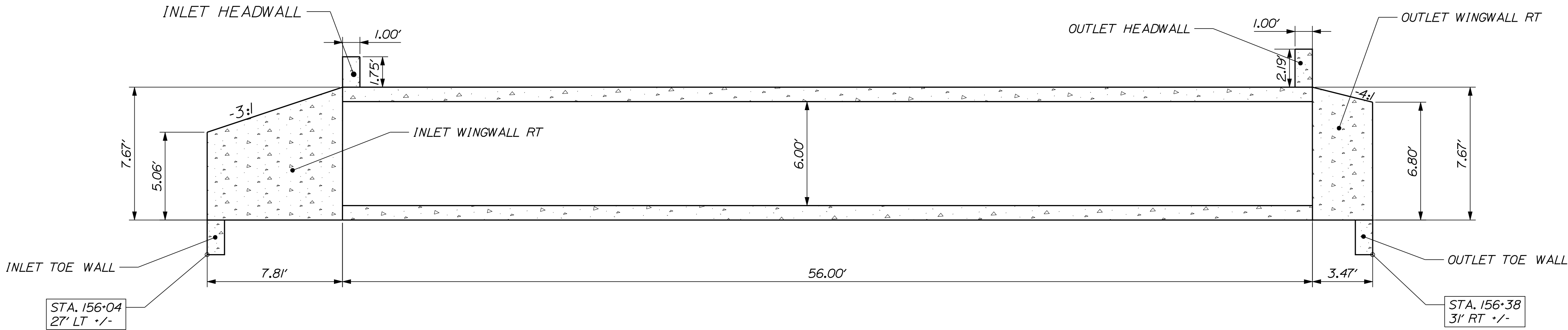
Date: 3/3/2011

Username: LUCAS SOO

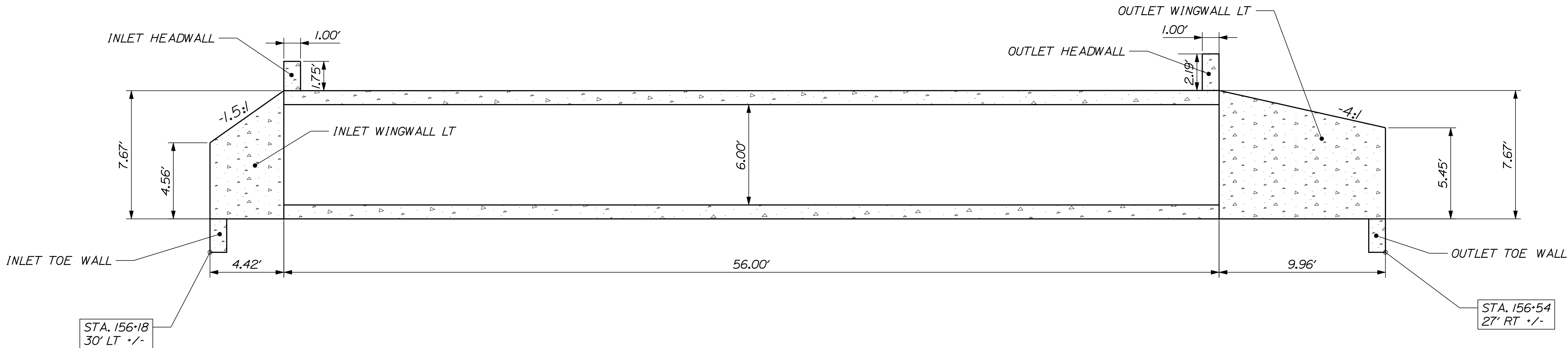
Division: HIGHWAY

Filename: ...\\00\\HIGHWAY\\MSTA\\001\\Title.dgn

DIMENSIONS ALONG RIGHT SIDE OF STRUT



DIMENSIONS ALONG LEFT SIDE OF STRUT



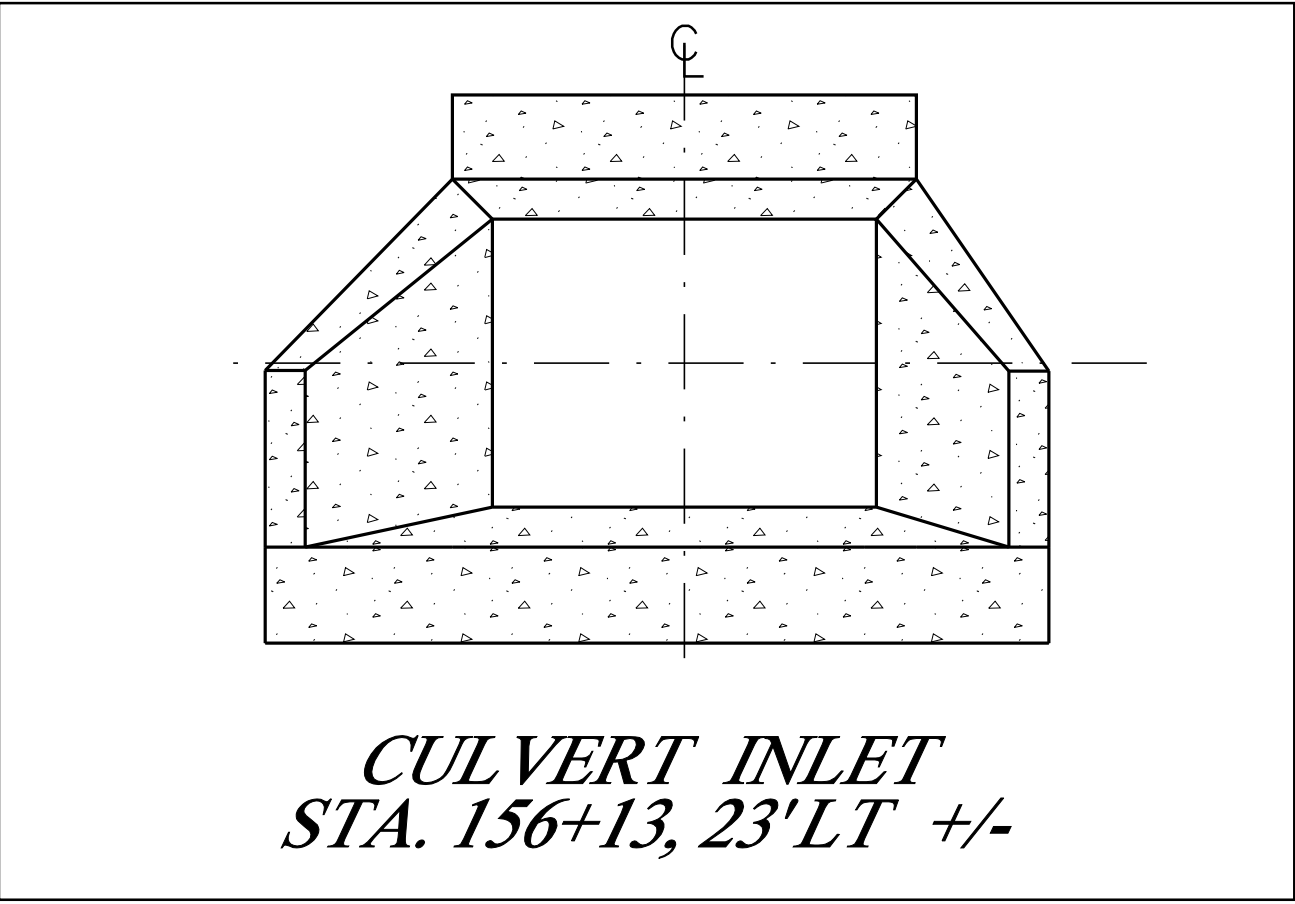
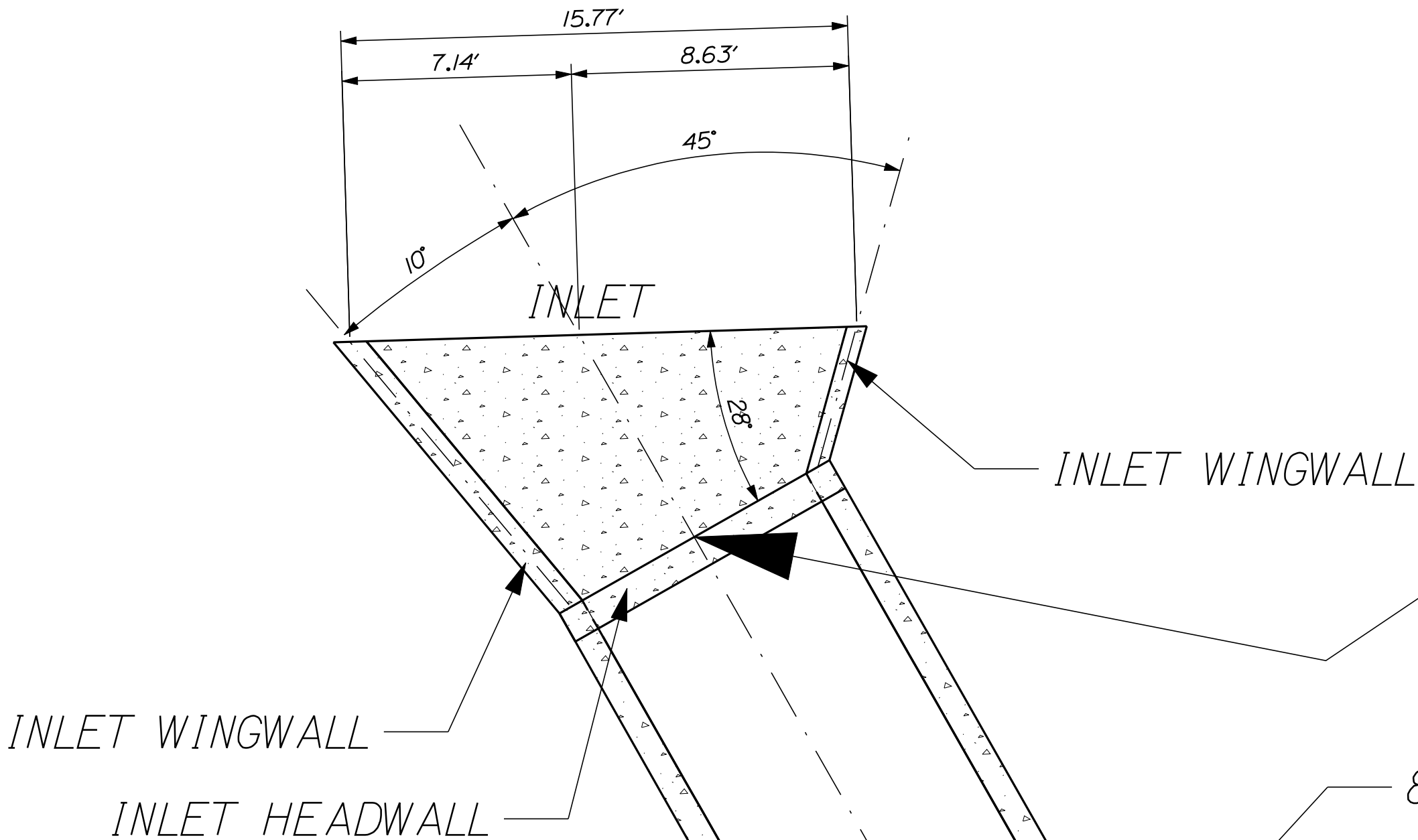
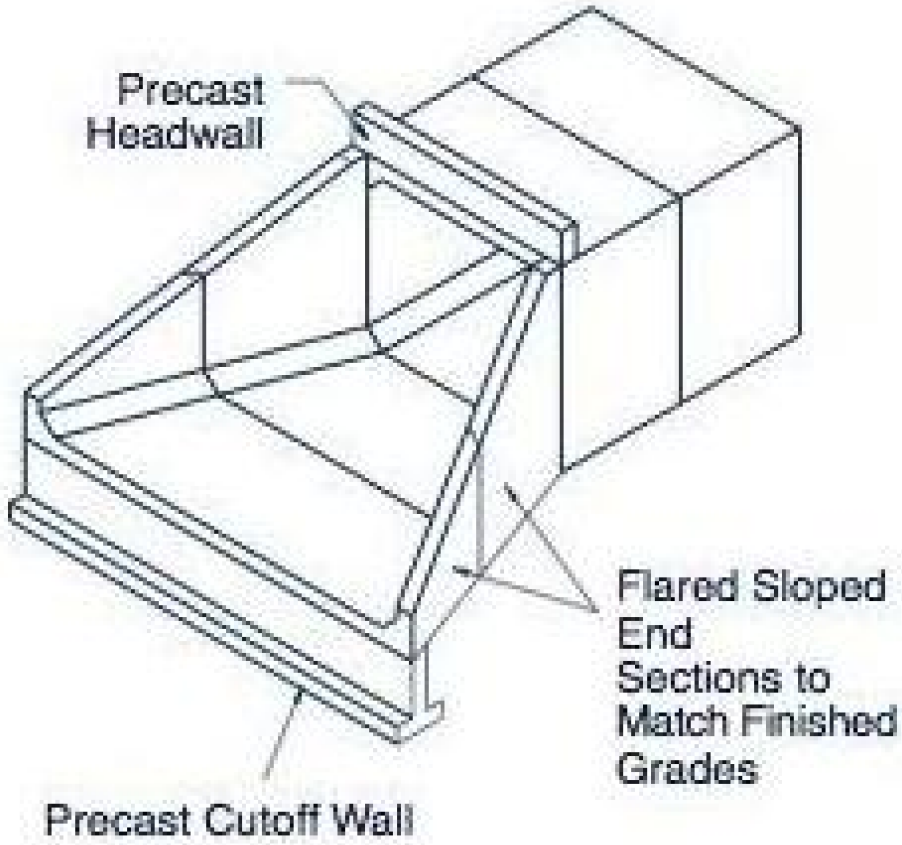
NOTE:

1. RIGHT AND LEFT SIDE ORIENTATION BASED OFF OF DIRECTION OF WATER FLOW THROUGH THE STRUT.
2. STATIONS SHOWN ARE REFERENCED FROM THE PROJECT PLAN VIEW ALONG ROUTE 1.
3. REFERENCE TYPICAL 3 OF 3 FOR TOE WALL DETAIL.
4. REFERENCE SPECIAL PROVISION SECTION 534 - PRECAST STRUCTURAL CONCRETE, FOR FURTHER DESIGN SPECIFICATION.

STRUT DIMENSIONS-SIDE VIEW WHITING - ROUTE 1	STATE OF MAINE	
	DEPARTMENT OF TRANSPORTATION	
	017541.00	
	WIN	HIGHWAY PLANS
TYPICAL SECTIONS		
SHEET NUMBER	PROJ. MANAGER	DATE
	CHECKED-REVIEWED	BY
	DESIGN-DETAILED	D. LOVELY
	REVISIONS 1	L. SOO
2	REVISIONS 2	2/11/2011
	REVISIONS 3	
	REVISIONS 4	
	FIELD CHANGES	
OF 6	SIGNATURE	
	P.E. NUMBER	
	DATE	

PRECAST CONCRETE FLARED END SECTION

FLARED END SECTIONS



CULVERT INLET
STA. 156+13, 23'LT +/-

8' X 6' X 56' PRECAST CONCRETE BOX CULVERT
WITH PRECAST CONCRETE FLARED END SECTIONS

8.00'

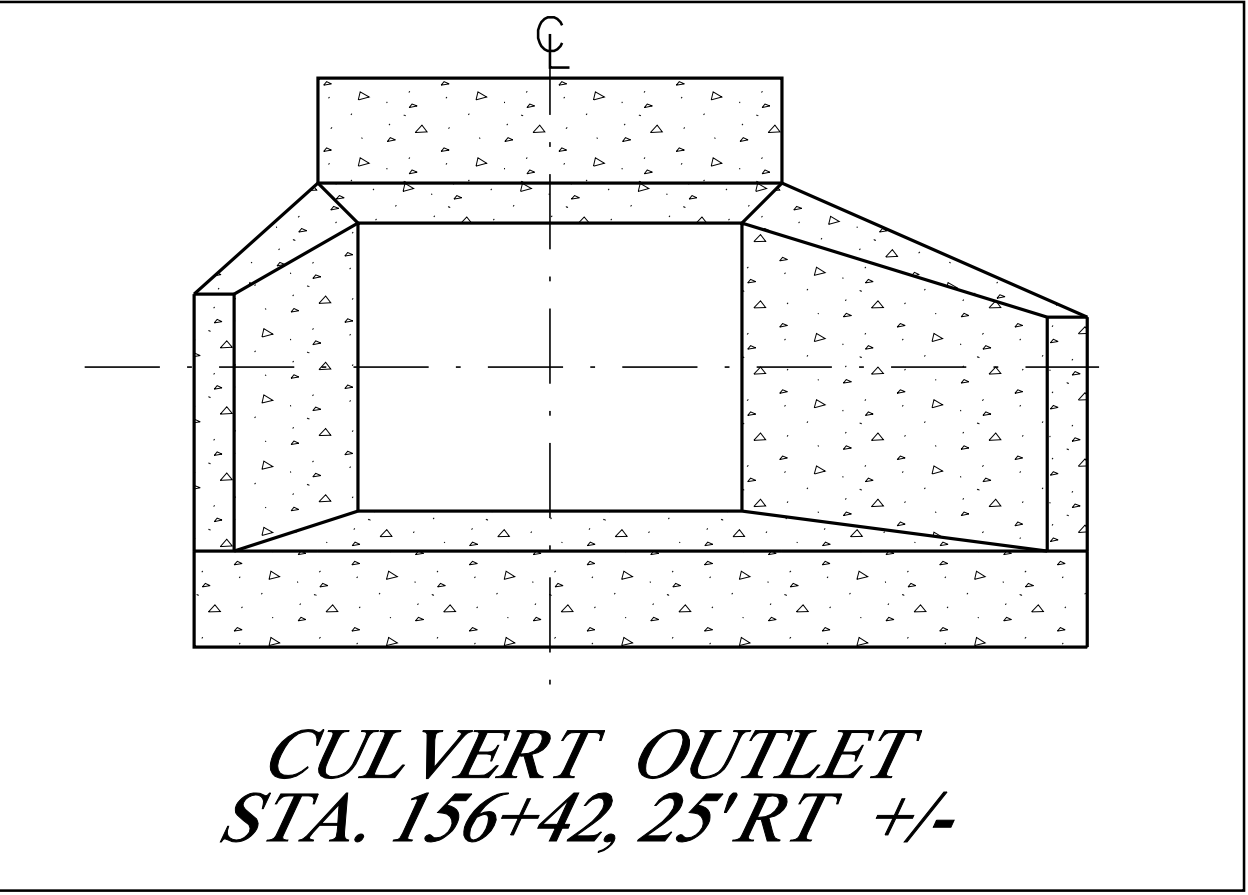
30°

OUTLET HEADWALL

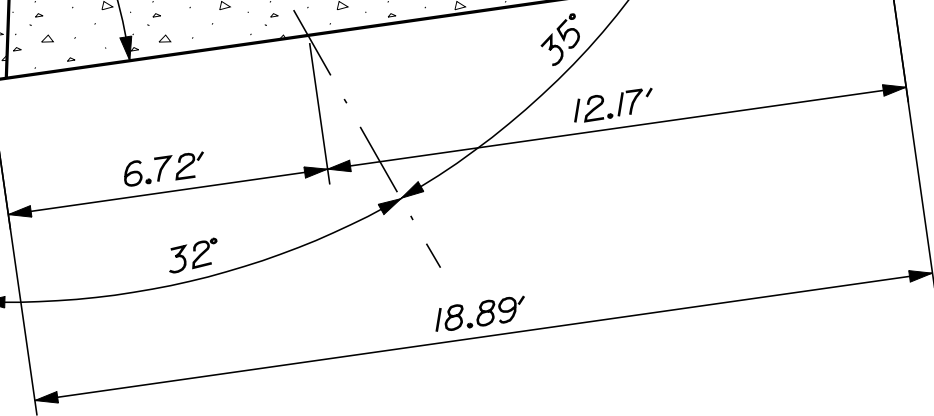
OUTLET

OUTLET WINGWALL

OUTLET WINGWALL

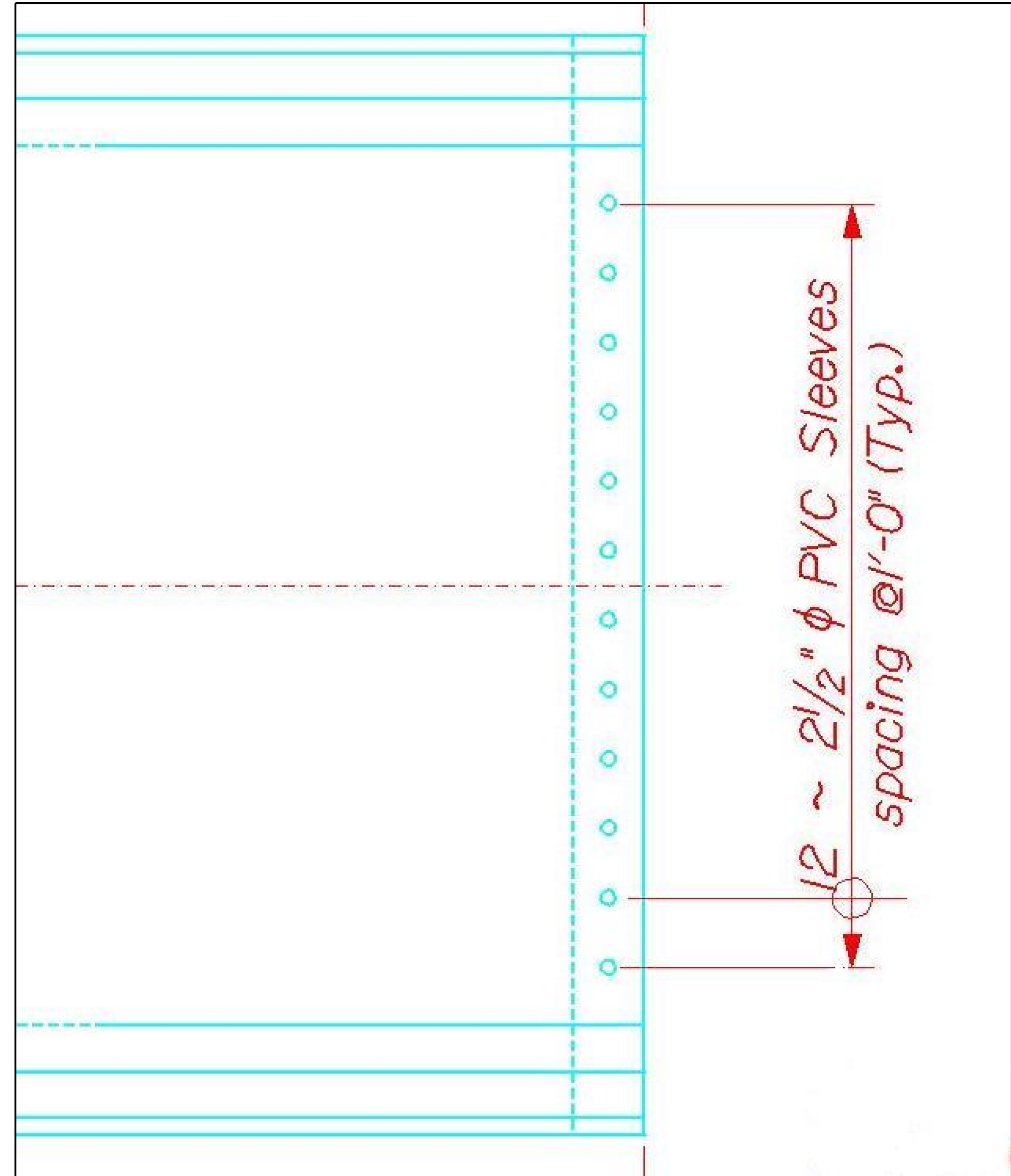


CULVERT OUTLET
STA. 156+42, 25'RT +/-



NOTE:
1. STATIONS IN THE STRUT INLET & STRUT OUTLET DETAILS ARE REFERENCED FROM THE PROJECT PLAN VIEW ALONG ROUTE 1.
2. REFERENCE SPECIAL PROVISION SECTION 534 - PRECAST STRUCTURAL CONCRETE FOR FURTHER DESIGN SPECIFICATION.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	STRUT DIMENSION-TOP VIEW WHITING - ROUTE 1				PROJ. MANAGER	D. LOVELY	BY	DATE
	TYPICAL SECTIONS	DESIGN-DETAILED	CHECKED-REVIEWED	L. SOO				
		DESIGN2-DETAILED2						
		DESIGN3-DETAILED3						
		REVISIONS 1						
		REVISIONS 2						
	REVISIONS 3							
	REVISIONS 4							
	FIELD CHANGES							
	017541.00	P.E. NUMBER						
WIN 17541.00	DATE							
HIGHWAY PLANS								



1. REFERENCE SPECIAL PROVISION SECTION 534 - PRECAST
STRUCTURAL CONCRETE FOR FURTHER DESIGN SPECIFICATION.

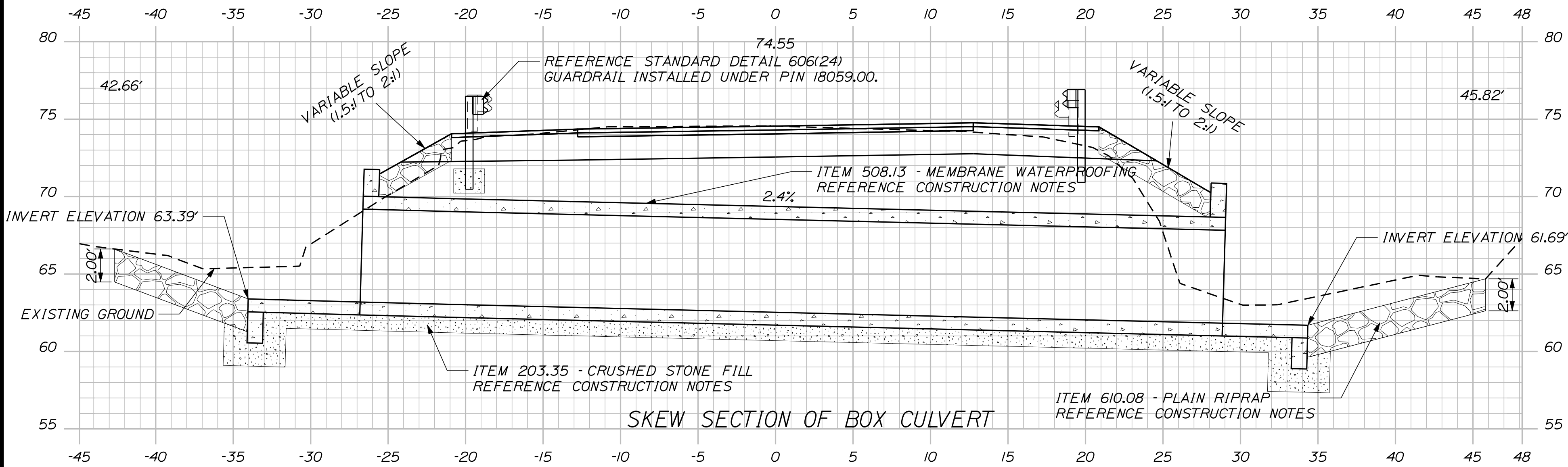
4 OF 6	SHEET NUMBER	PRECAST TOE WALL DETAILS WHITING - ROUTE 1		PROJ. MANAGER	D. LOVELY	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
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Date: 3/21/2011

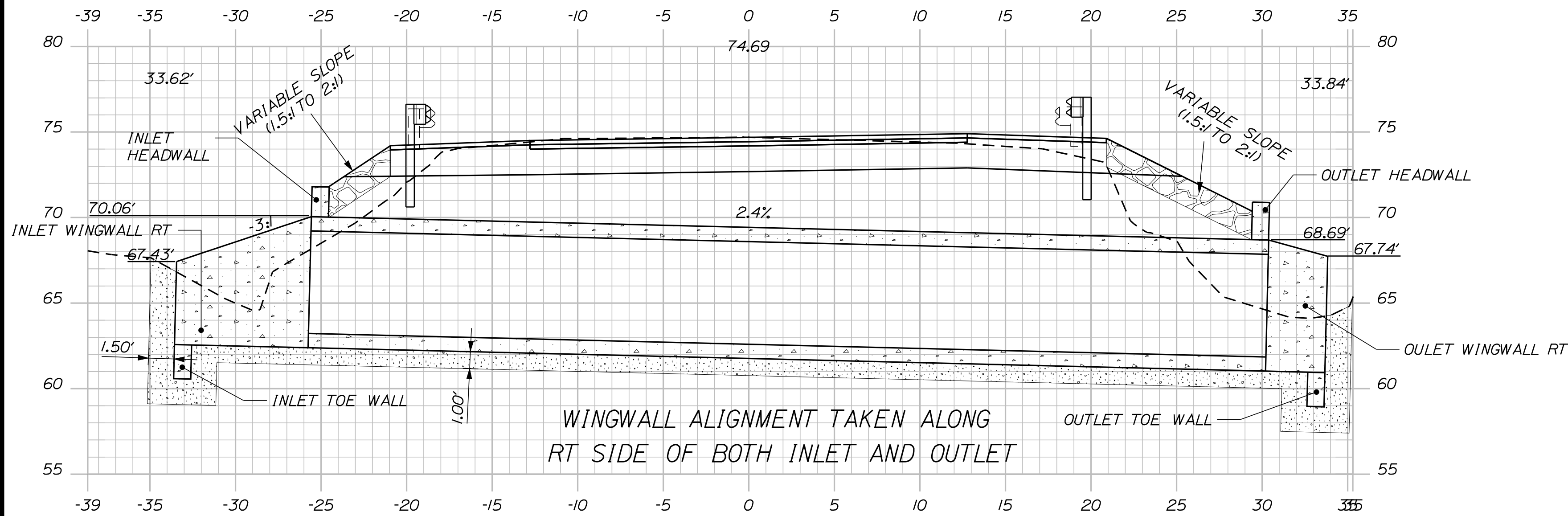
Username: michael.lenko

Division: HIGHWAY

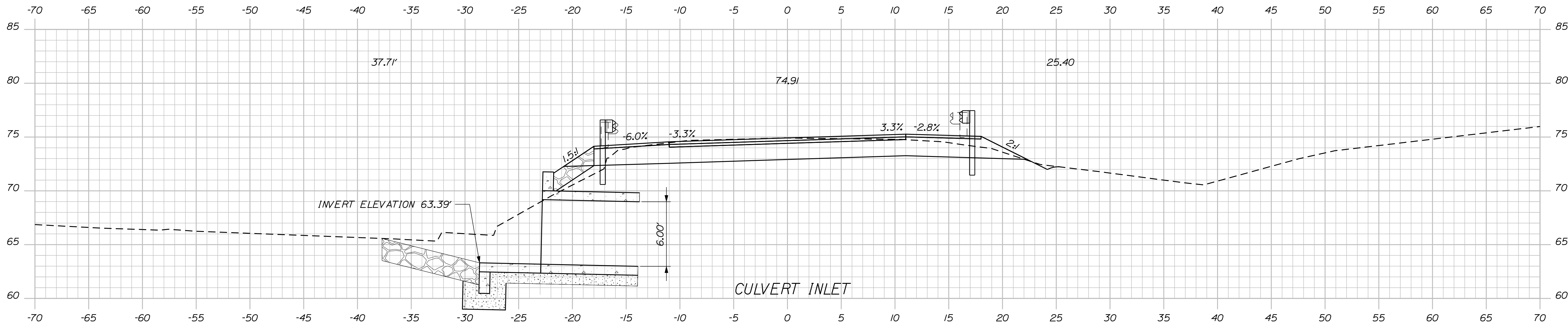
Filename: ... \MSTAD005_XSECT_156+13.dgn



156+27.03



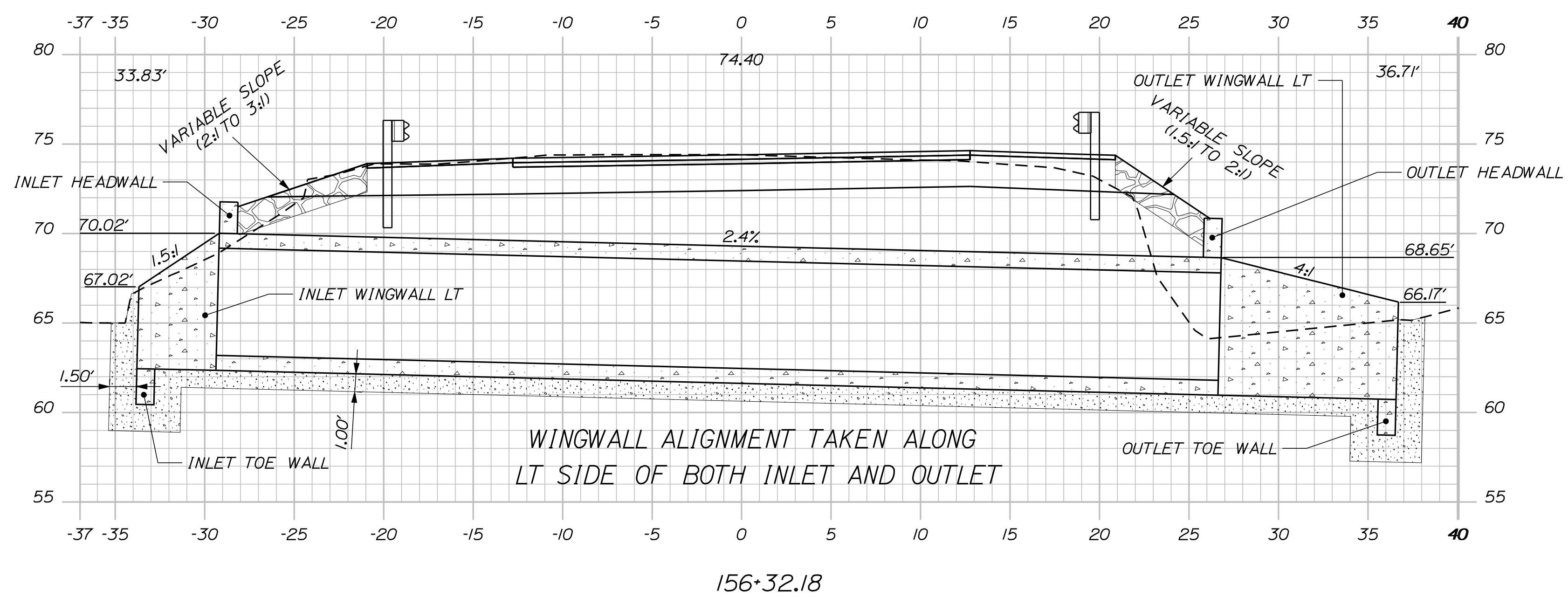
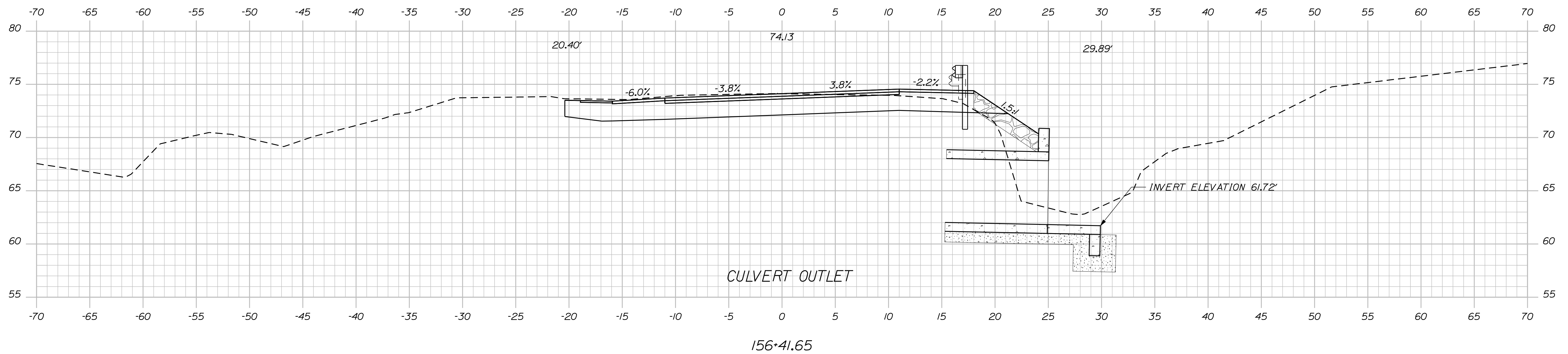
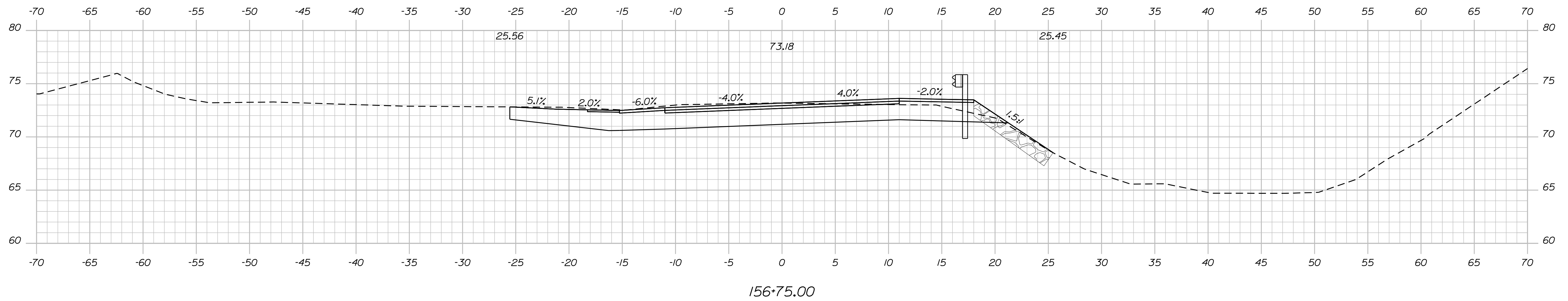
156+21.76



156+13.23

PROJ. MANAGER	D. LOVELLY	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	L. SOO					
CHECKED-REVIEWED						
DESIGN-DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

WHITING
ROUTE 1
CROSS SECTIONS



Date: 3/4/2011

Username: michael.lenko

Division: HIGHWAY

Filename: ... \MSTA\005_XSECT_156+32_002.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

017541.00

WIN
17541.00

CONVULSION

SIGNATURE

P.E. NUMBER

DATE _____

WHITING
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

3

OF 6

Sta. 156+32.18 to Sta. 156+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



WHITING
WASHINGTON COUNTY

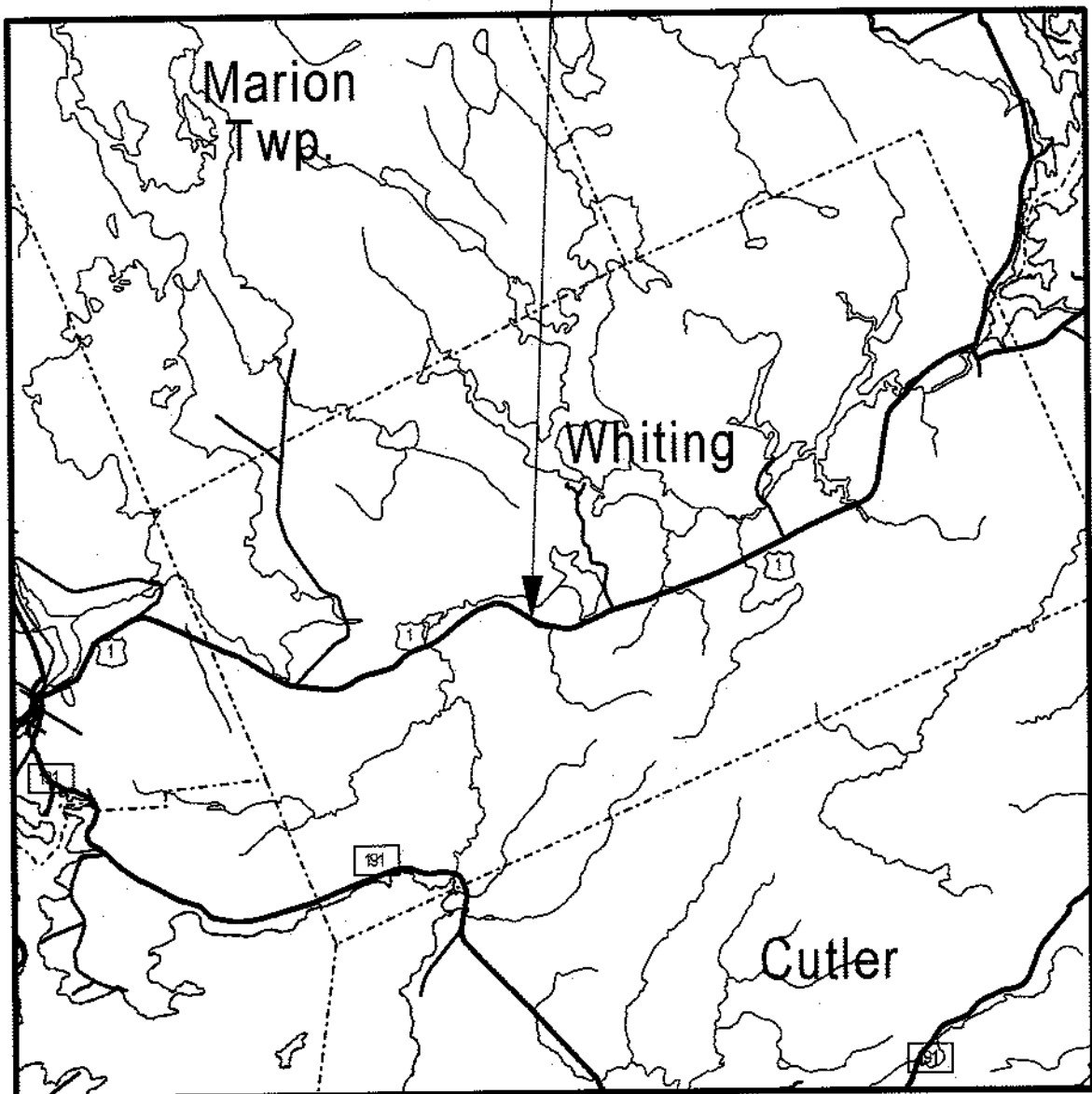
ROUTE 1

017543.00

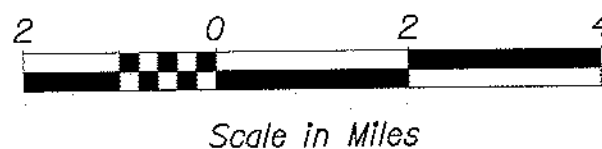
PROJECT LENGTH: 0.019 MILES
STRUT REPLACEMENT

017543.00

RLM 266.410 CULVERT LOCATION



LOCATION MAP



TO EAST MACHIAS

10+00 ROUTE 1 11+00 12+00 13+00 ROUTE 1 14+00 TO EDMUNDS

WIN 17543.00
STA. 12+50 (WIN 17543.00) = STA. 160+00 (WIN 18059.00)
END RLM 266.420

WIN 17543.00
STA. 11+50 (WIN 17543.00) = STA. 159+00 (WIN 18059.00)
BEGIN RLM 266.401

LAYOUT SCALE

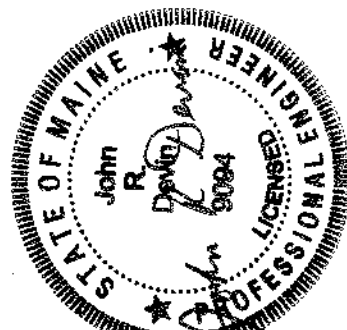


TRAFFIC DATA

Current (2011) AADT2050
Future (2023) AADT2650
DHV - % of AADT.....12%
Design Hour Volume276
% Heavy Trucks (AADT).....11%
% Heavy Trucks (DHV).....11%
Directional Distribution (DHV).....56%
18 kip Equivalent P 2.0.....113
18 kip Equivalent P 2.5.....108
Design Speed (mph)55
Functional Class:..MINOR ARTERIAL

PROGRAM AREA: STRUTS - REGION 4
SCOPE OF WORK: STRUT REPLACEMENT

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	DATE
APPROVED	3/1/11
COMMISSIONER	3/1/11
CHIEF ENGINEER	3/1/11



John R. Davis
SIGNATURE
9094
P.E. NUMBER
3/3/2011
DATE

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	EMORY LOVELY
DESIGNER	LUCAS SOO
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WIN 17543.00

17543.00

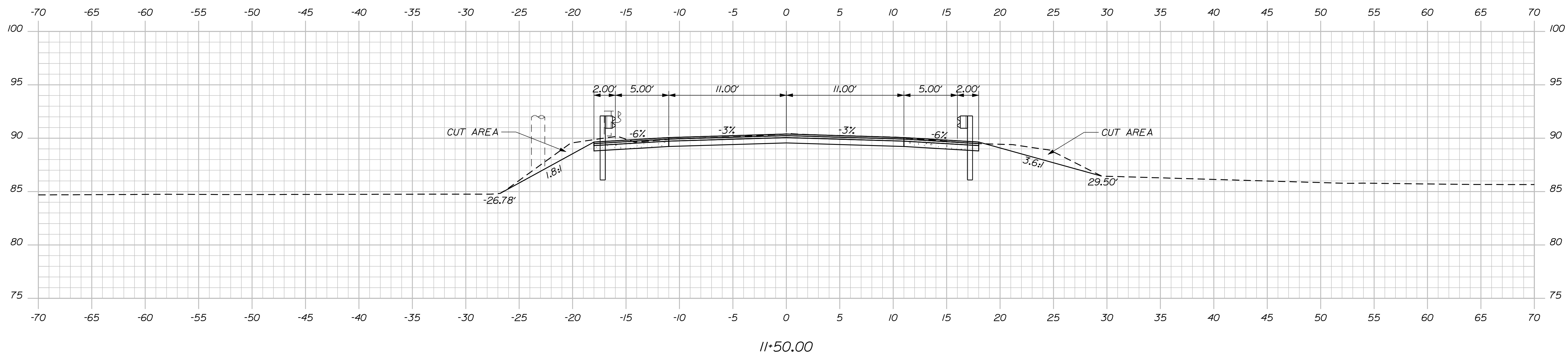
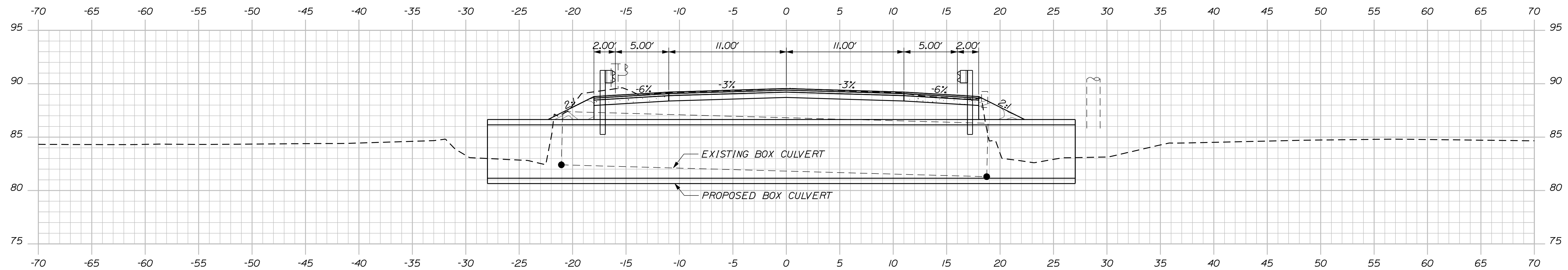
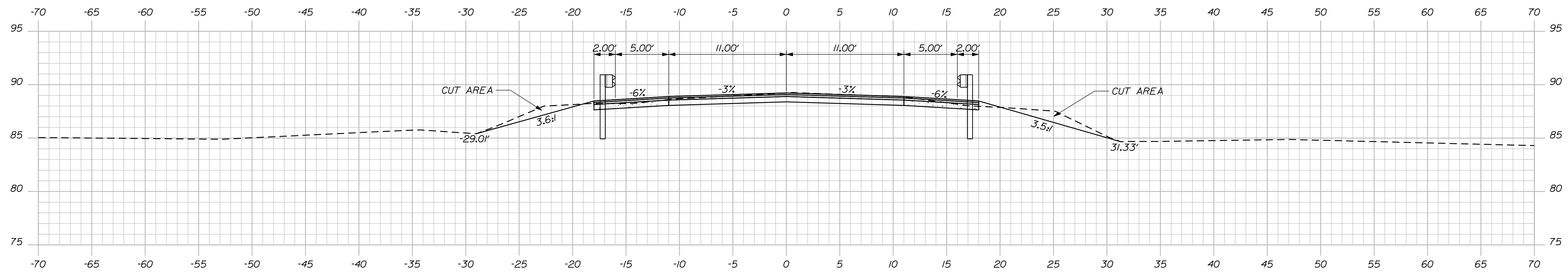
WHITING
ROUTE 1

TITLE SHEET

SHEET NUMBER

1

OF 3



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

17543.00

**WIN
17543**

WIN
17543.00

HIGHWAY PLANS

PROJ. MANAGER	D. LEVEL1	BY	DATE
DESIGN2-DETAILED	L. SGO		
DESIGN2-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
SIGNATURE			
P.E. NUMBER			
DATE			

WHITING
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

2

OF 3

Sta. 11+50.00 to Sta. 12+50.00

11+99.90

STATE OF MAINE DEPARTMENT OF TRANSPORTATION					
PROJ. MANAGER	D. LOVELY	BY	DATE		
DESIGN-DETAILED	L. SOO				
CHECKED-REVIEWED				SIGNATURE	
DESIGN-DETAILED					
DESIGN-DETAILED				P.E. NUMBER	
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4				DATE	
FIELD CHANGES					
				WINN 17543.00	
				HIGHWAY PLANS	