

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



RICHMOND SAGADAHOC ROUTE 197 - MAIN ST. WIN: 19264.00

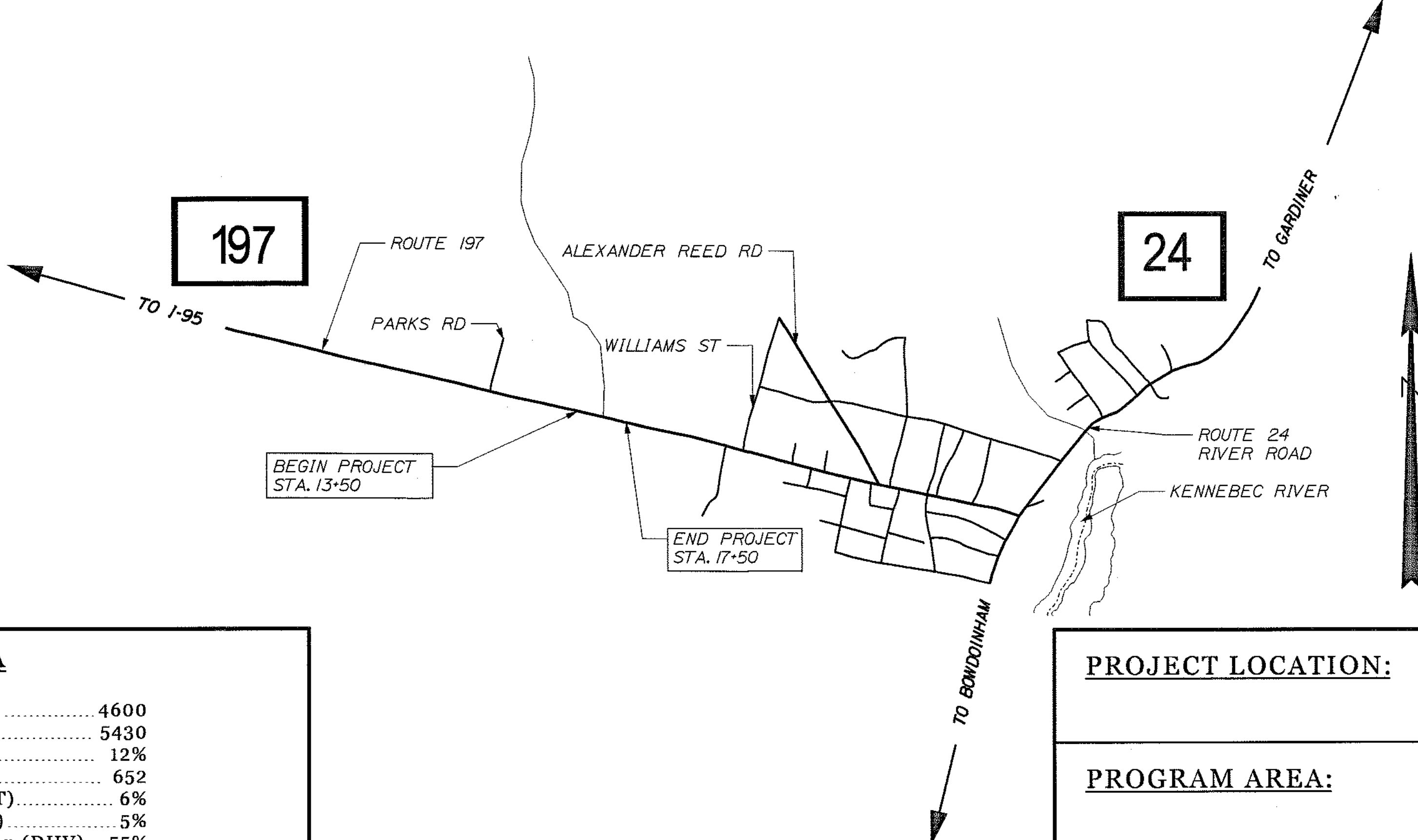
PROJECT LENGTH : 0.075 MILES

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	Culvert-Existing	Catch Basins Existing
Culvert-Existing	Culvert Proposed	Manholes Existing
Culvert Proposed	Proposed Underdrain	Manholes Proposed
Curbing Existing	Proposed Ditch	Existing Ditch
Curbing Proposed	Existing Ditch	Proposed Ditch
Type 1	Utility Poles Existing	Utility Poles Proposed
Type 3	Fire Hydrants Existing	Fire Hydrants Proposed
Type 5	Existing Water Line	Existing San. Sewer
Outline of Bodies of Water	Existing San. Sewer Manhole	Existing San. Sewer Manhole
Ledge	Guardrail-Existing	Guardrail-Proposed
Buildings	Guardrail-Cable, Other	
Trees Conifer		
Trees Deciduous		
Tree Line		
Clearing Limit Line		

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2-3
Plan	4
Profile	5
Cross - Sections	6-13
Right of Way Map	14



TRAFFIC DATA

Current (2011) AADT	4600
Future (2023) AADT	5430
DHV - % of AADT	12%
Design Hour Volume	652
% Heavy Trucks (AADT)	6%
% Heavy Trucks (DHV)	5%
Directional Distribution (DHV)	55%
18 kip Equivalent P 2.0	146
18 kip Equivalent P 2.5	139
Design Speed (mph)	45

PROJECT LOCATION:	Located 0.205 miles of west of High School drive
PROGRAM AREA:	Highway Program
OUTLINE OF WORK:	Removal of existing six foot culvert and replacement with an 8' X 5' X 80' box culvert and installation of new guardrail.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	<i>[Signature]</i>	1/31/12
	COMMISSIONER	
	CHIEF ENGINEER	1/31/12

<i>[Signature]</i>	DATE
1/30/12	

PROJECT INFORMATION	PROGRAM	DESIGNER	CONSULTANT	CONTRACTOR	PROJECT RESIDENT	PROJECT COMPLETION DATE
HIGHWAY	SHAWN SMITH	BETA ESTES				

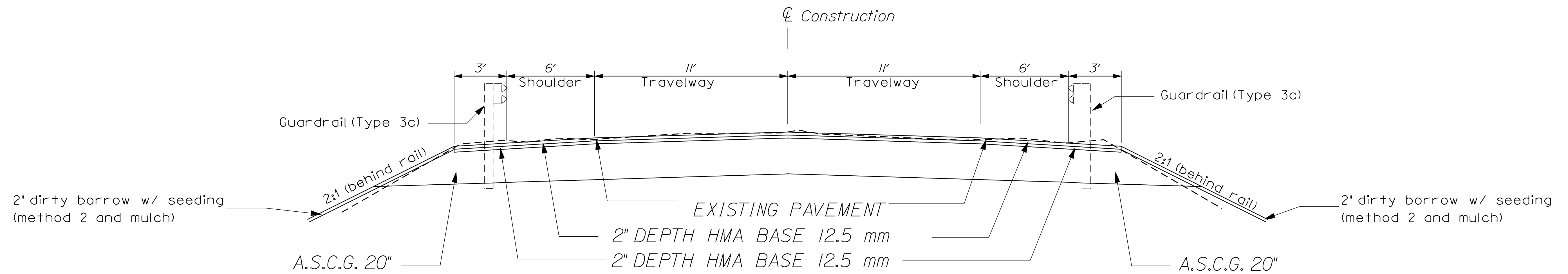
RICHMOND
ROUTE 197 - MAIN ST.
TITLE SHEET

SHEET NUMBER	1
OF 14	

Filename: ... \HIGHWAY\WSTA\001_Title_11.dgn
 Division: HIGHWAY
 Username: randall.barrrows
 Date: 1/30/2012

WIN 19264.00

FULL CONSTRUCTION W/ 4" HMA & 20" ASCG



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN 19264.00
WIN 19264.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE
Shawn Smith	BME		
DESIGN-DETAILED			
CHECKED-REVIEWED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			DATE

RICHMOND
ROUTE 197 - MAIN ST.
TYPICAL SECTIONS

SHEET NUMBER
2
OF 14

NOT TO SCALE

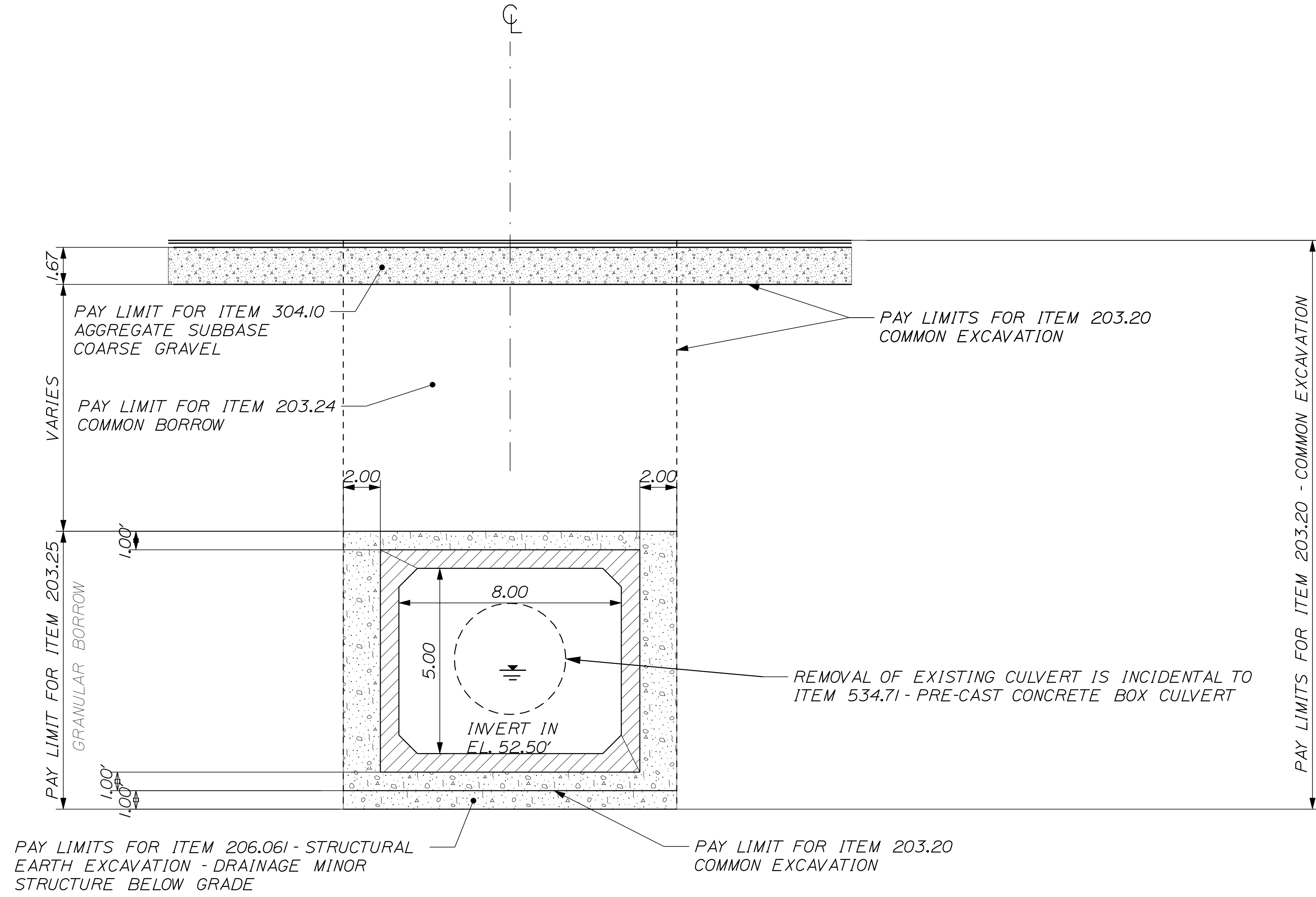
Date: 1/30/2012

Username: randell.borrows

Division: HIGHWAY

Filename: ... \msta\002_Typical_002.dgn

5' X 8' CONCRETE BOX



EXCAVATION AND FILL LIMITS
NOT TO SCALE

NOT TO SCALE

SHEET NUMBER

3

OF 14

RICHMOND
ROUTE 197 - MAIN ST

TYPICAL SECTIONS

PROJ. MANAGER	BY	DATE
Shawn Smith		
DESIGN-DETAILED	Bert E. Esler	
CHECKED-REVIEWED	RUB	
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
P.E. NUMBER
DATE

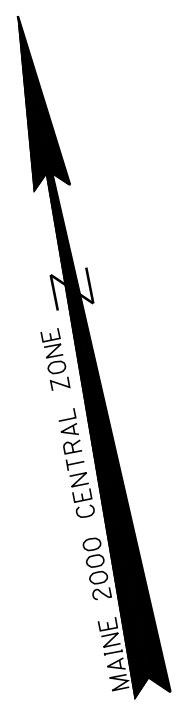
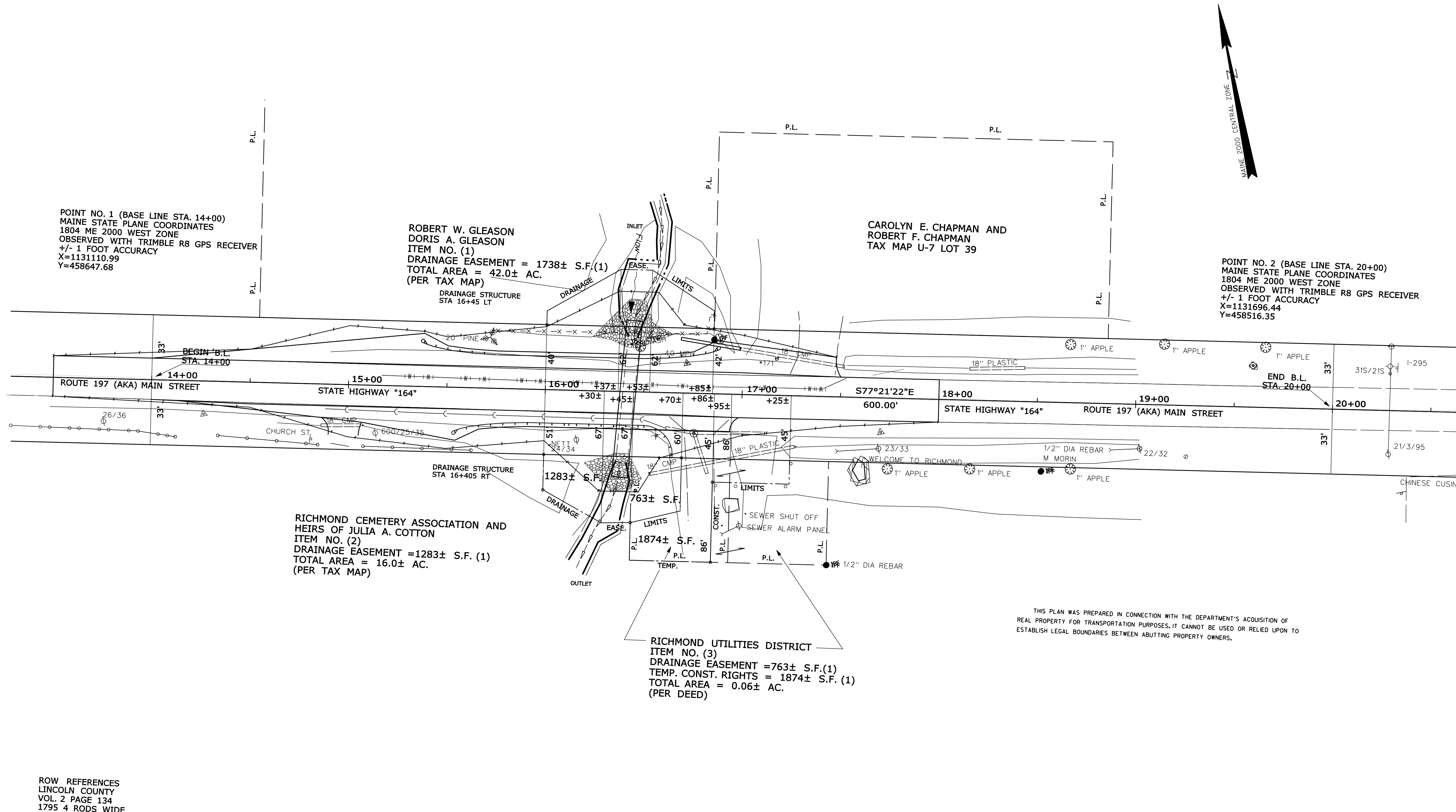
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN 19264.00
WIN 19264.00
HIGHWAY PLANS

Date: 1/30/2012

Username: randall.barrons

Division: HIGHWAY

Filename: ... \msto\004_HDPlan_001.dgn



POINT NO. 1 (BASE LINE STA. 14+00)
 MAINE STATE PLANE COORDINATES
 1804 ME 2000 WEST ZONE
 OBSERVED WITH TRIMBLE R8 GPS RECEIVER
 +/- 1 FOOT ACCURACY
 X=1131110.99
 Y=458647.68

ROBERT W. GLEASON
 DORIS A. GLEASON
 ITEM NO. (1)
 DRAINAGE EASEMENT = 1738± S.F.(1)
 TOTAL AREA = 42.0± AC.
 (PER TAX MAP)
 DRAINAGE STRUCTURE
 STA 16+45 LT

CAROLYN E. CHAPMAN AND
 ROBERT F. CHAPMAN
 TAX MAP U-7 LOT 39

POINT NO. 2 (BASE LINE STA. 20+00)
 MAINE STATE PLANE COORDINATES
 1804 ME 2000 WEST ZONE
 OBSERVED WITH TRIMBLE R8 GPS RECEIVER
 +/- 1 FOOT ACCURACY
 X=1131696.44
 Y=458516.35

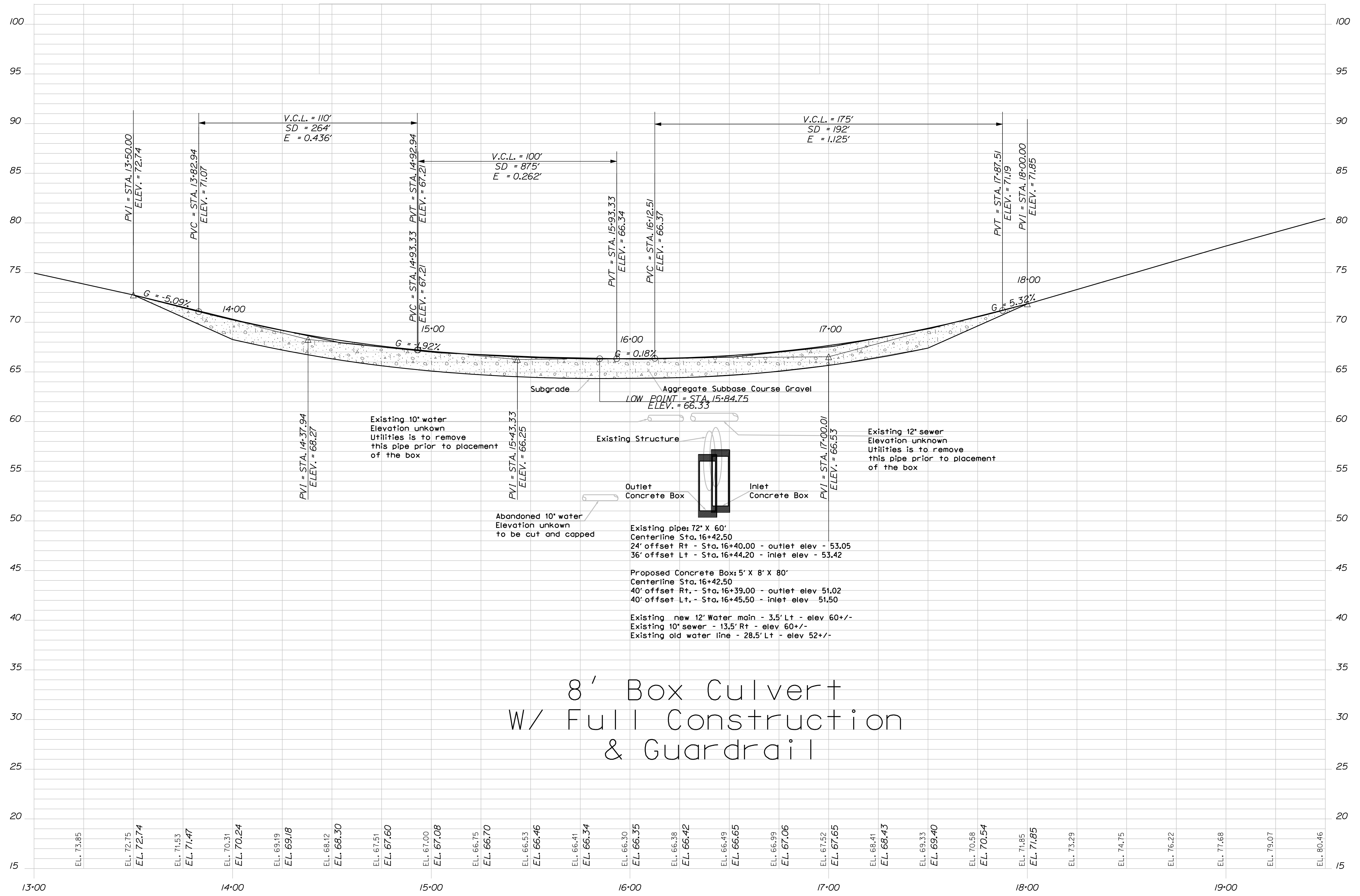
RICHMOND CEMETERY ASSOCIATION AND
 HEIRS OF JULIA A. COTTON
 ITEM NO. (2)
 DRAINAGE EASEMENT = 1283± S.F. (1)
 TOTAL AREA = 16.0± AC.
 (PER TAX MAP)

RICHMOND UTILITIES DISTRICT
 ITEM NO. (3)
 DRAINAGE EASEMENT = 763± S.F.(1)
 TEMP. CONST. RIGHTS = 1874± S.F. (1)
 TOTAL AREA = 0.06± AC.
 (PER DEED)

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

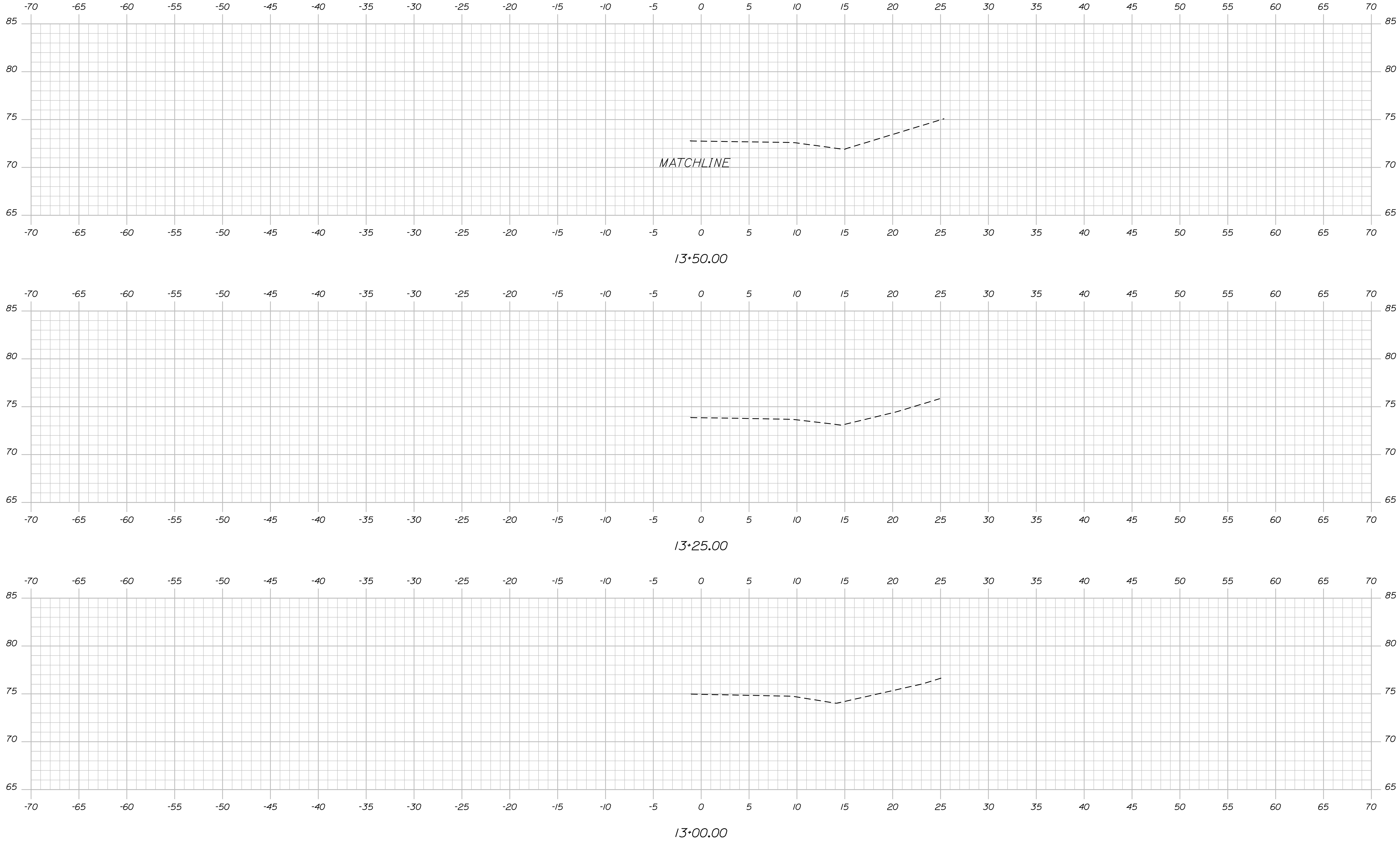
ROW REFERENCES
 LINCOLN COUNTY
 VOL. 2 PAGE 134
 1795 4 RODS WIDE

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
WIN - 19264.00		WIN 19264.00	
HIGHWAY PLANS		HIGHWAY PLANS	
DATE	BY	SIGNATURE	P.E. NUMBER
DESIGN DETAIL	DESIGNER		
CHECKED/REVISED	CHECKER		
DESIGN DETAIL	DESIGNER		
DESIGN DETAIL	DESIGNER		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
RICHMOND ROUTE 197 - MAIN ST.		HD PLAN	
SHEET NUMBER		4	
		OF 14	



8' Box Culvert
W/ Full Construction
& Guardrail

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		WIN 19264.00 HIGHWAY PLANS	
RICHMOND ROUTE 197 - MAIN ST.		PROFILE	
SHEET NUMBER		5	
OF 14		DATE	
PROJ. MANAGER	Sharon Smith	BY	S. SMITH
CHECKED-REVIEWED		DATE	03-09-11
DESIGN DETAILED		SIGNATURE	
DESIGN DETAILED		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN - 19264.00
WIN
19264.00
HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	BY	DATE
Shawn Smith	Bert Esler	
CHECKED-REVIEWED	RUB	
DESIGN DETAILED		
DESIGN DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

RICHMOND
ROUTE 197 - MAIN ST.
13+00.00 CROSS SECTIONS 13+50.00

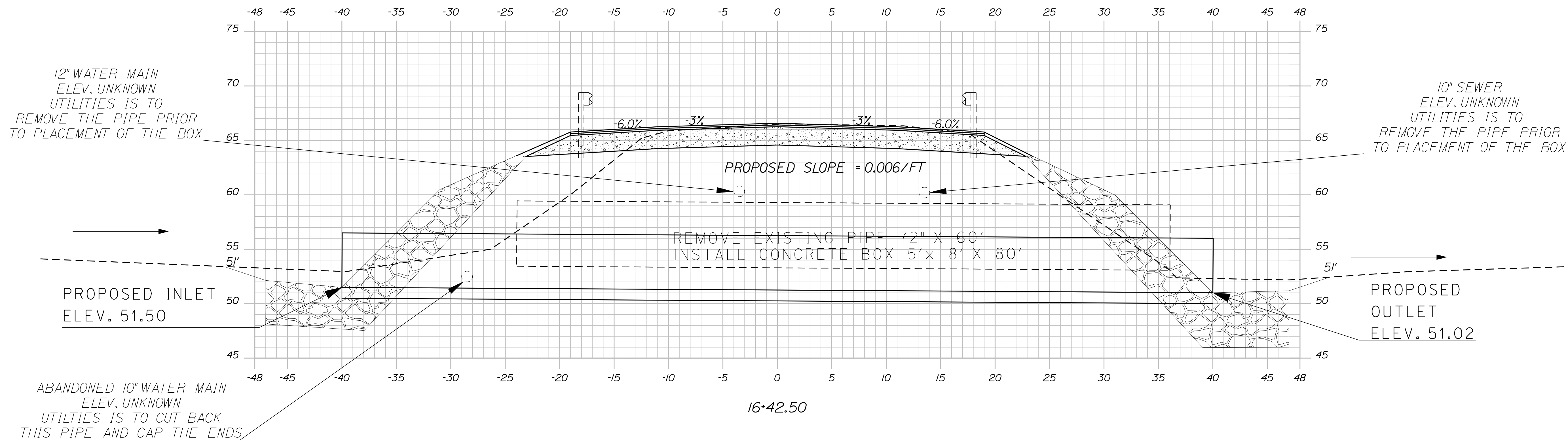
SHEET NUMBER
6
OF 14

Date: 1/30/2012

Username: randall.borrows

Division: HIGHWAY

Filename: ...007_xsect_16+42.50_006.dgn



Existing Pipe:
 Centerline Sta. 16+42.50
 24' offset Rt - Sta. 16+40.00
 36' offset Lt - Sta. 16+44.20

Proposed Concrete Box:
 Centerline Sta. 16+42.50
 40' offset Rt. - Sta. 16+39.00
 40' offset Lt. - Sta. 16+45.50

REMOVE EXISTING STRUCTURE
 INSTALL CONCRETE BOX 5' x 8' x 80'
 SET INTO STREAMBED 2'
 RIPRAP THE ENDS OF PIPE AND MATCH INTO EXISTING STREAMBED

SEE THE UTILITY SPEC. FOR DETAILS
 ABOUT THE SEWER AND WATER.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 WIN - 19264.00
 WIN
 19264.00
 CROSS SECTION

PROJ. MANAGER	J. ANDREWS	DATE
DESIGN-DETAILED	BME	
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

RICHMOND
 ROUTE 197 - MAIN STREET
 Cross Section - Box Culvert

SHEET NUMBER
 7
 OF 14

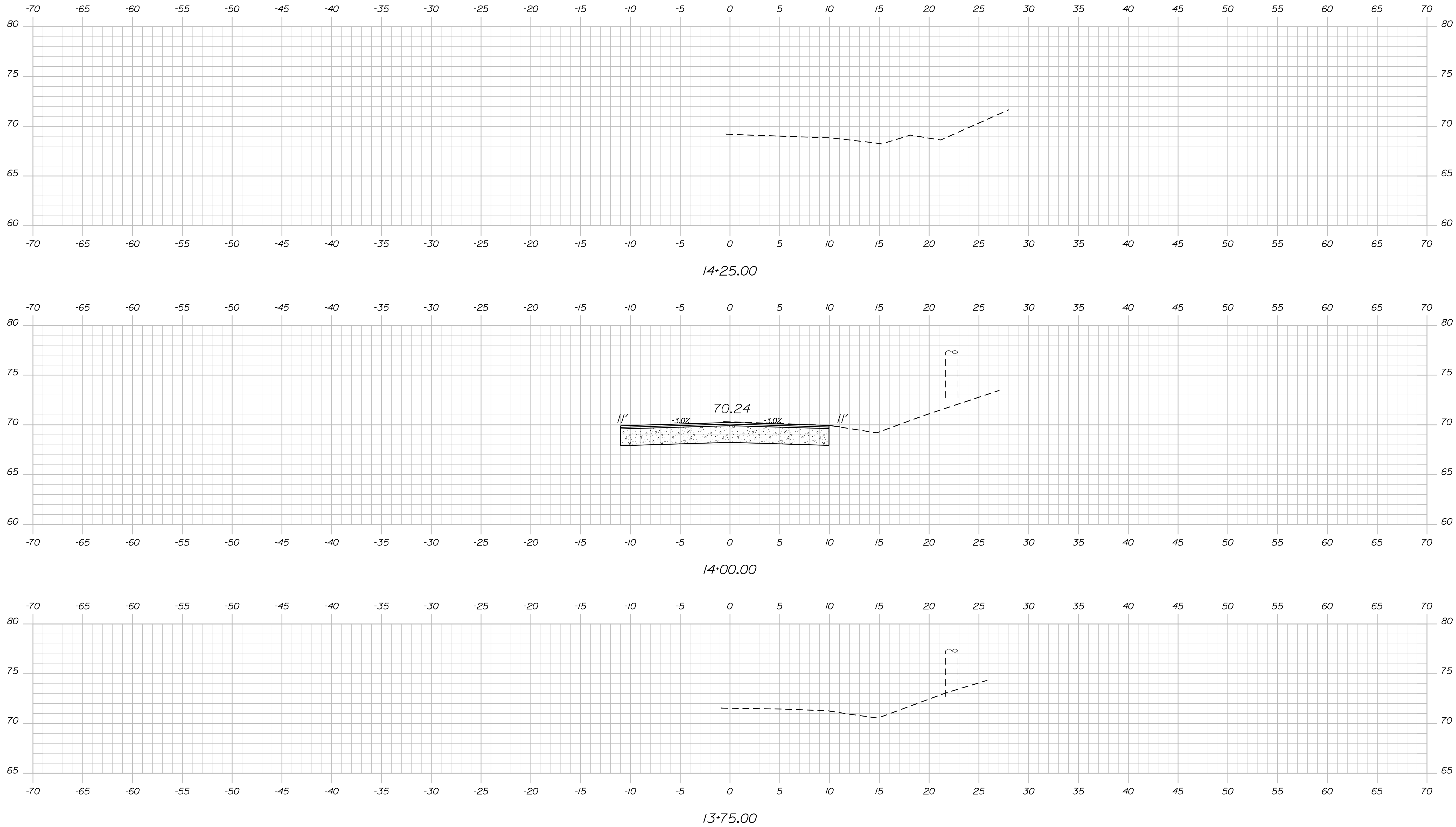
Sta. 16+42.50

Date: 1/30/2012

Username: randall.barrons

Division: HIGHWAY

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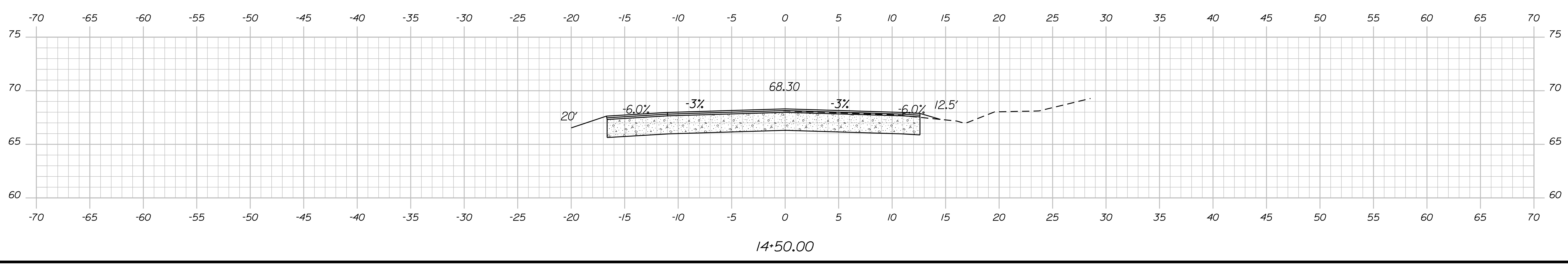
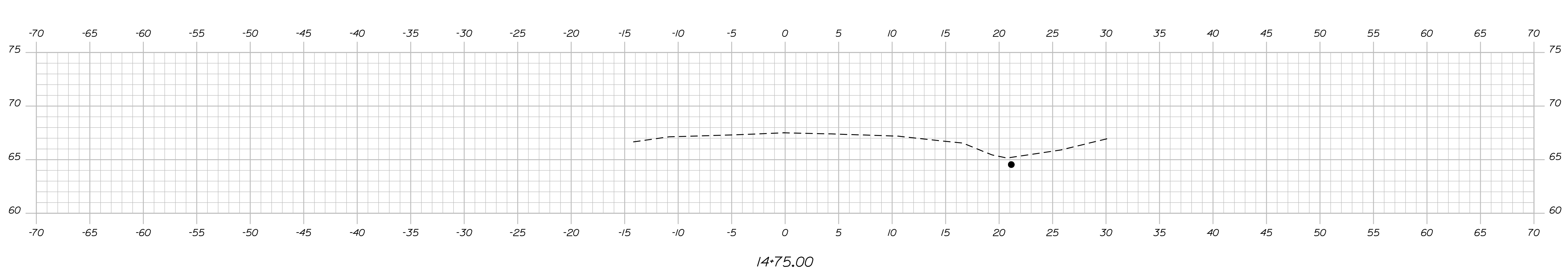
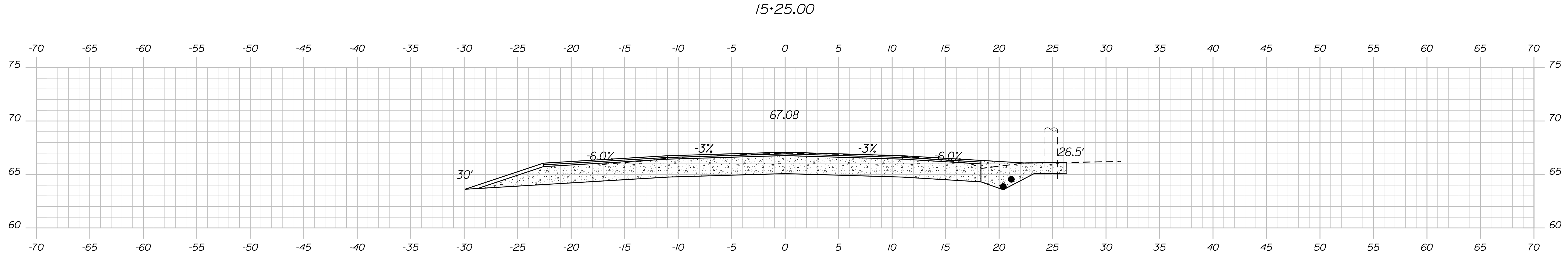
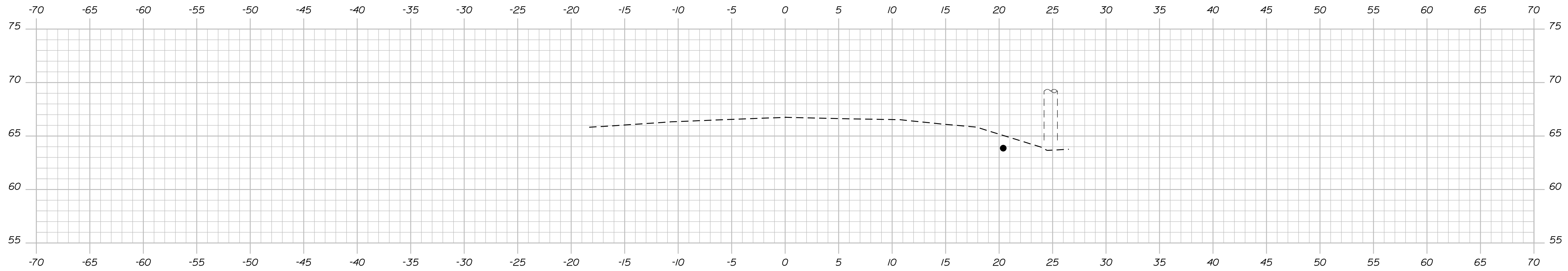


STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 WIN - 19264.00
 HIGHWAY PLANS

PROJ. MANAGER	Shawn Smith	BY	DATE
DESIGN-DETAILED	Bert Estep		
CHECKED-REVIEWED	RJB		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

RICHMOND
 ROUTE 197 - MAIN ST.
 CROSS SECTIONS

SHEET NUMBER
 8
 OF 14



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN - 19264.00
WIN
19264.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
Shawn Smith		
DESIGN DETAILED		
CHECKED-REVIEWED	Bertie Estier	
DESIGN DETAILED	RUB	
DESIGN DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE

RICHMOND
ROUTE 197 - MAIN ST.
14+50 CROSS SECTIONS 15+25

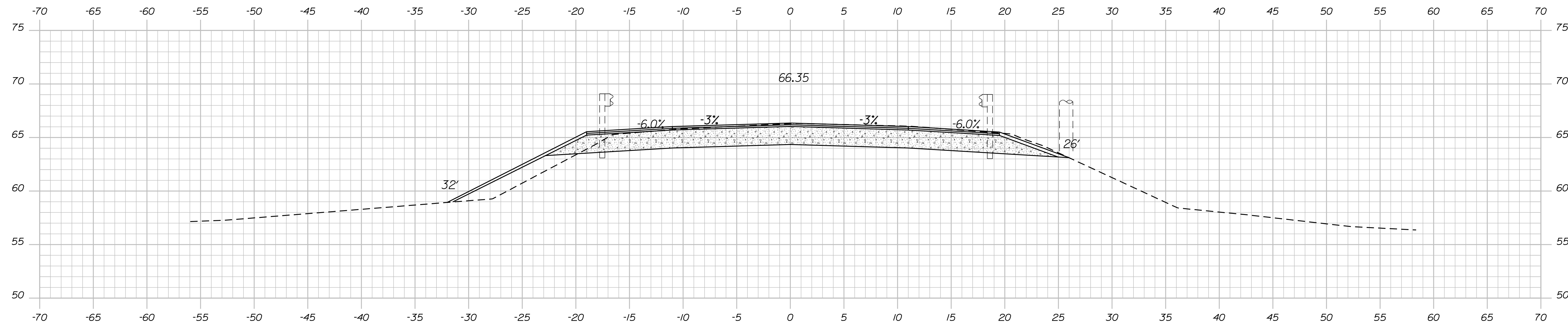
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9
OF 14

Date: 1/30/2012

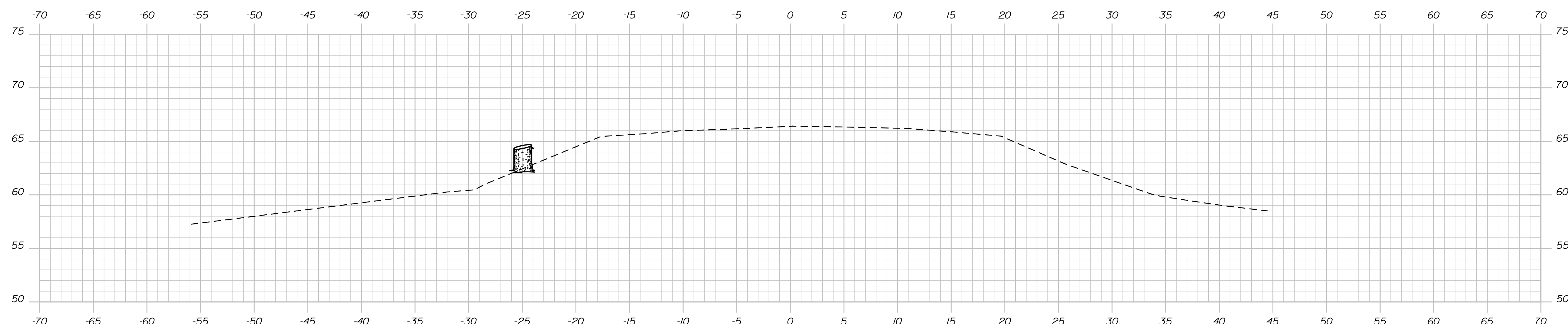
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Division: HIGHWAY

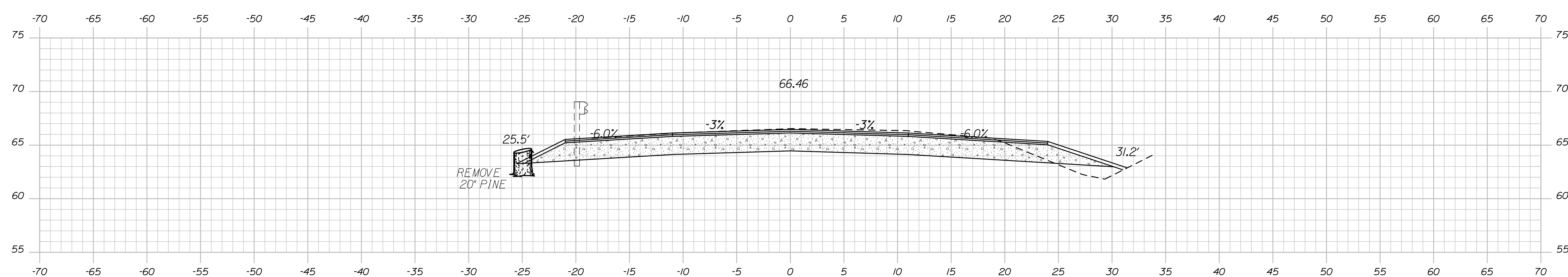
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16+00.00



15+75.00



15+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
WIN - 19264.00
WIN
19264.00
HIGHWAY PLANS

PROJ. MANAGER	Shawn Smith	DATE	
DESIGN-DETAILED	Bret Esler	BY	
CHECKED-REVIEWED	RJB	SIGNATURE	
DESIGN-DETAILED2		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

RICHMOND
ROUTE 197 - MAIN ST.
CROSS SECTIONS

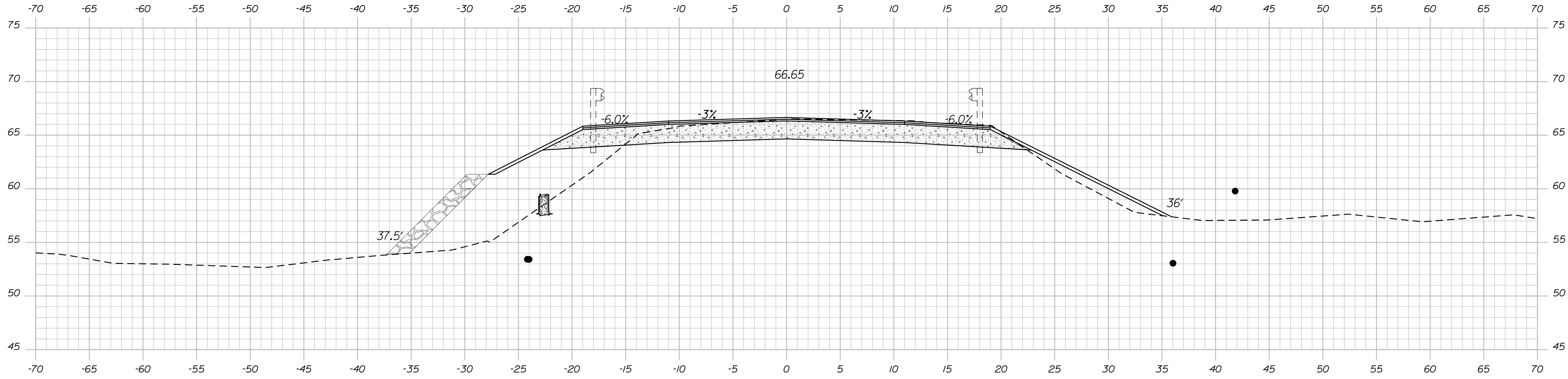
SHEET NUMBER
10
OF 14

Date: 1/30/2012

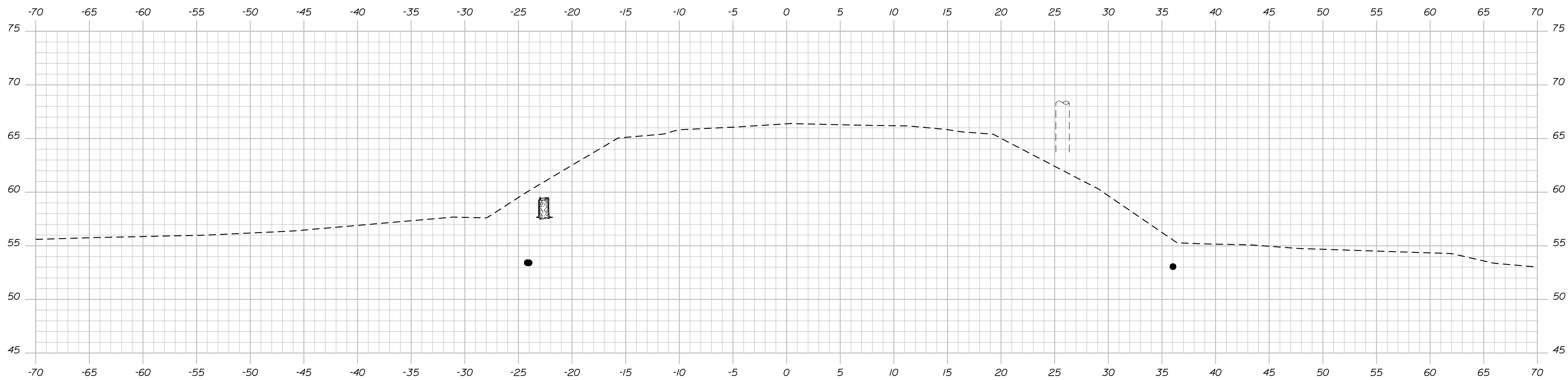
Username: randallbarrows

Division: HIGHWAY

Filename: ... \highway\msta\011_Xsect_010.dgn



16+50.00



16+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN - 19264.00

WIN
19264.00

HIGHWAY PLANS

SIGNATURE

P.L. NUMBER

DATE

DATE

BY

Shawn Smith

PROJ. MANAGER

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN2-DETAILED2

DESIGN3-DETAILED3

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

RICHMOND
ROUTE 197 - MAIN ST.

CROSS SECTIONS

SHEET NUMBER

11

OF 14

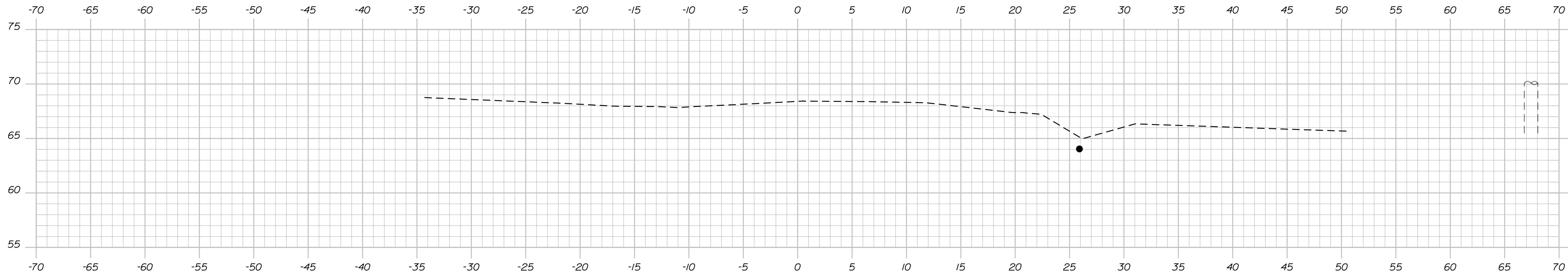
Sta. 16+25.00 to Sta. 16+50.00

Date: 1/30/2012

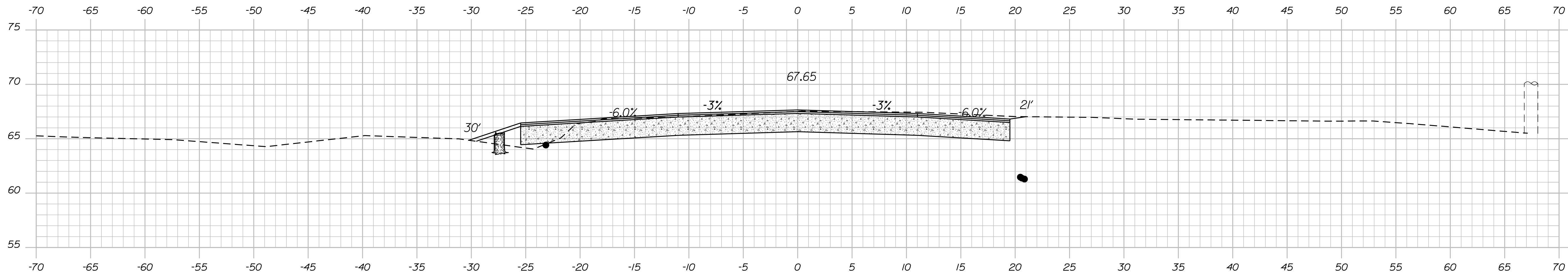
Username: randoll.barrows

Division: HIGHWAY

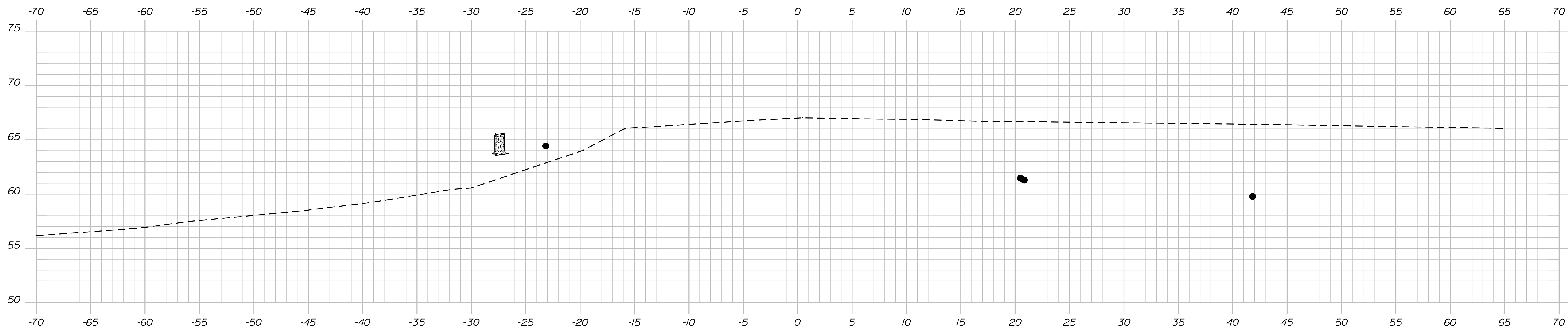
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17+25.00



17+00.00



16+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN - 19264.00

HIGHWAY PLANS
WIN - 19264.00

SIGNATURE

P.L. NUMBER

DATE

DATE

BY

Shawn Smith

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN2-DETAILED2

DESIGN3-DETAILED3

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

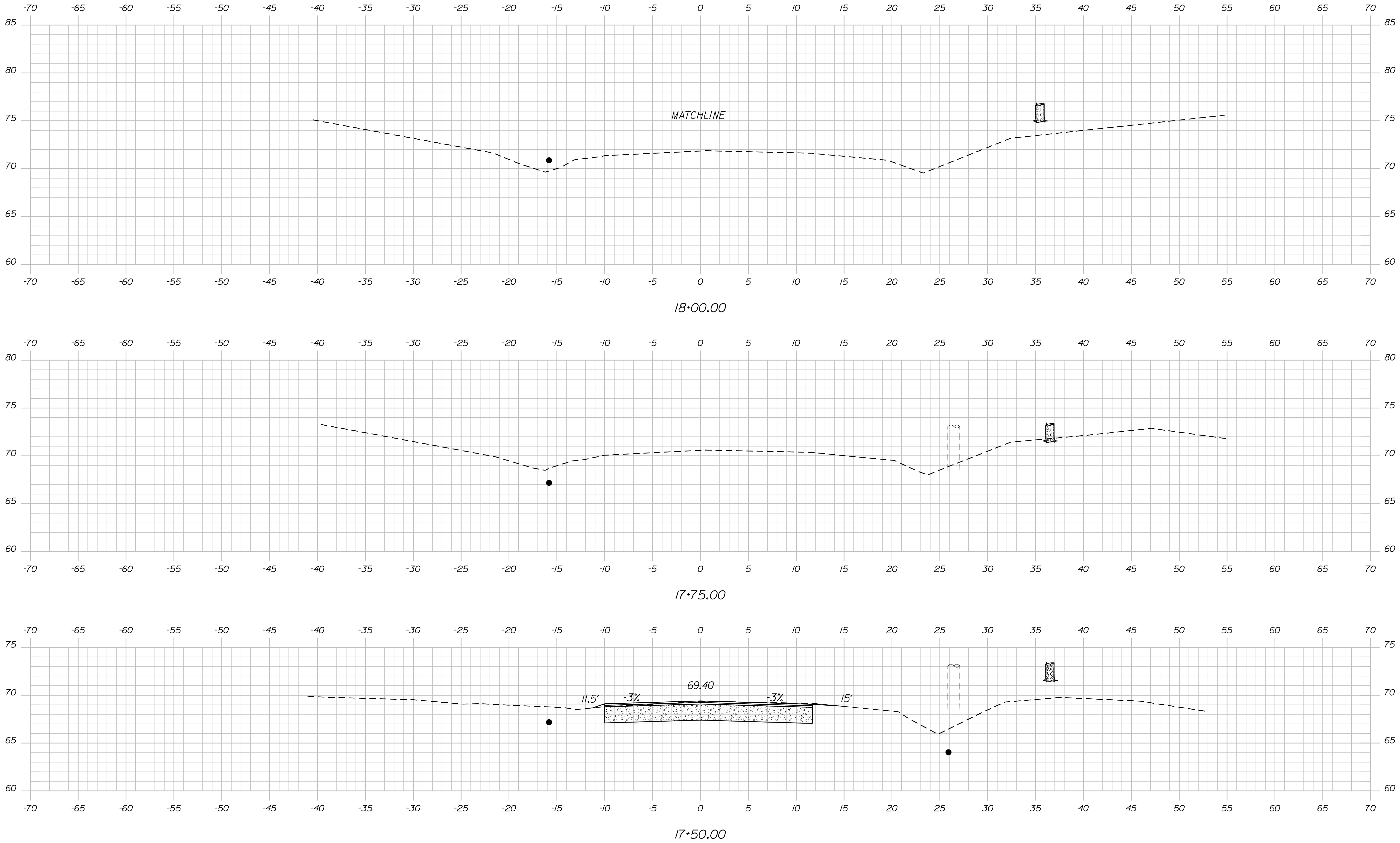
RICHMOND
ROUTE 197 - MAIN ST.

CROSS SECTIONS

SHEET NUMBER

12

OF 14



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 WIN - 19264.00
 WIN
 19264.00
 HIGHWAY PLANS

PROJ. MANAGER	Shown Smith	DATE
DESIGN-DETAILED	By:lg Estes	
CHECKED-REVIEWED	By:	
DESIGN-DETAILED2		
DESIGN-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

RICHMOND
 ROUTE 197 - MAIN ST.
 CROSS SECTIONS

SHEET NUMBER
 13
 OF 14

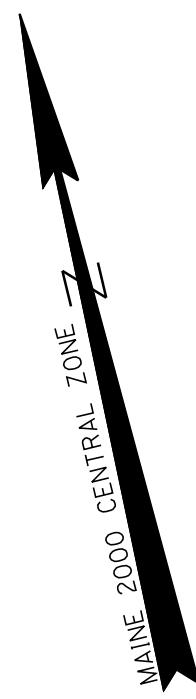
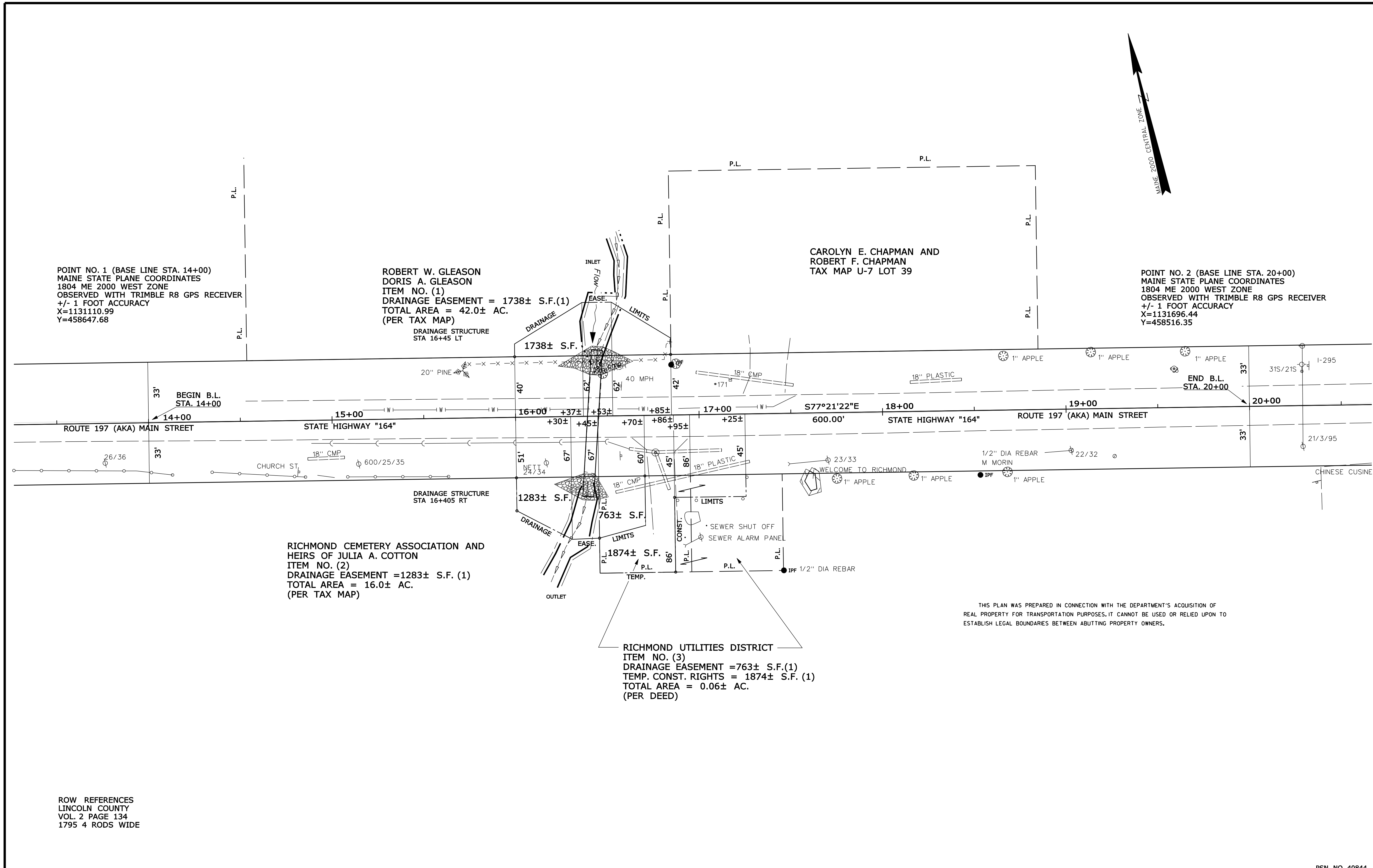
Date: 1/30/2012

Username: berta.estes

Division: HIGHWAY

Filename: ... \000\ROW\MSTA001_RWP\PLAN1.dgn

ROW REFERENCES
LINCOLN COUNTY
VOL. 2 PAGE 134
1795 4 RODS WIDE



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

PSN NO. 40844

STATE OF MAINE
REGISTRY OF DEEDS
COUNTY RECEIVED
at _____ h _____ m _____ Page _____ and recorded in
Plan Book _____ / Page _____
Attest: _____ REGISTER

SYMBOLS

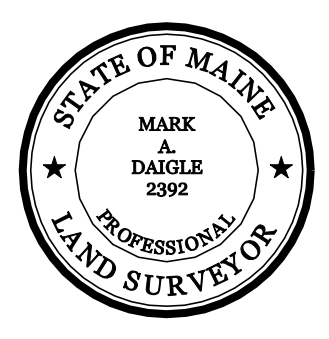
○	WELL (WELL)
---	GRADING LIMIT LINE
---	CONSTRUCTION LIMIT LINE
---	PROPERTY LINE
---	LIMITS OF WRAUGHT PORTION (LOWP.)
---	EXISTING RIGHT OF WAY
---	NEW RIGHT OF WAY
---	NEW ROW WITHIN EXIST. ROW
---	CONTROL OF ACCESS
●	IPF (IRON PIPE OR PIN)
○	S.T. (SEPTIC TANK)
○	APM (APPROPRIATE POINT)
○	AWM (APPROPRIATE POINT)
---	WATER LINE
---	GAS LINE
---	ELECTRIC LINE
---	TELEPHONE LINE
---	SEWER LINE

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

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

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK			COUNTY RECORD			
				NO.	GRANTOR	PAGE	INSTRUMENT	DATE	BOOK	PAGE
1				1	ROBERT W. & DORIS A. GLEASON	60	EASEMENT	8/10/10	3214	60
2				2	HEIRS OF JULIA COTTON & RICHMOND CEMETERY ASSOC	62	EASEMENT	8/10/10	3214	62
3				3	RICHMOND UTILITIES DISTRICT	58	EASEMENT	8/10/10	3214	58

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE



To the best of my knowledge and belief, this map constitutes an accurate graphical representation of the Highway Right of Way lines shown hereon. Other boundary lines, including lines between abutters, are approximate and for general reference only.

STATE HIGHWAY "164"		
ROUTE 197 (AKA) MAIN STREET		
RICHMOND	SAGADAHOC COUNTY	
MAINTENANCE PROJECT		
MARCH 2010	RIGHT-OF-WAY MAP	MDOT FILE NO. 12-125
SCALE 1" = 25'	SHEET 1 OF 1	

SHEET NUMBER
14
OF 14