STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

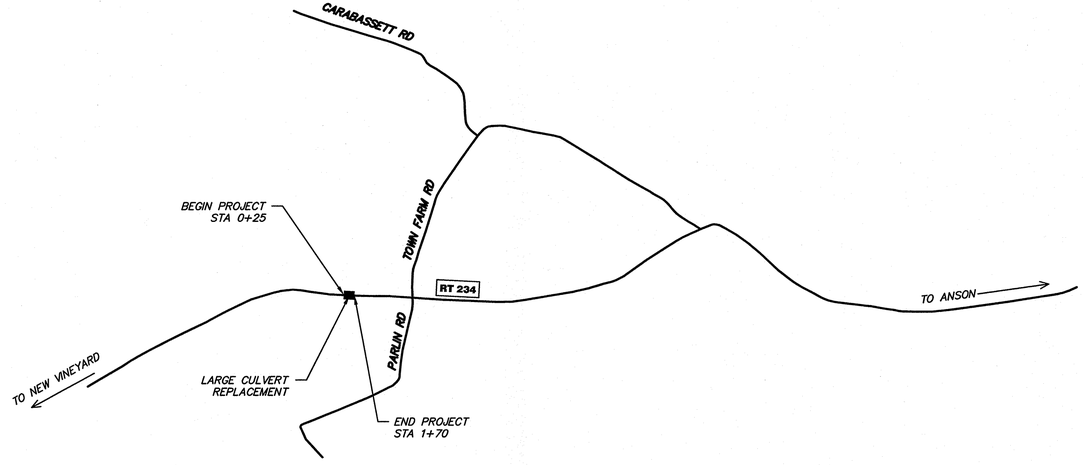
PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert-Proposed
Curbing Existing Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees DECIDUOUS CONIFER
Tree Line
Clearing Limit Line CLL CLL
Centerline-Existing
Centerline-Proposed 1+00
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins Existing Proposed
Manholes Existing Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utility Poles Existing Proposed
Fire Hydrants Existing Proposed
Existing Water Line W
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

ANSON
SOMERSET COUNTY
ROUTE 234
STATE PROJECT NO. 020353.00
PROJECT LENGTH: 0.02 MILES

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
Title Sheet	1
Estimated Quantities & General Notes	2
Culvert Details	3
Plan/Profile	4
Cross Sections	5-7
Right of Way Map	8



GRID 2000 WEST ZONE N

TRAFFIC DATA

Route 234 @ Anson - New Vineyard Town Line

Current (2016) AADT	1240
Future (2028) AADT	1390
Design Hour Volume	139
% Heavy Trucks (AADT)	25%
% Heavy Trucks (DHV)	25%
Directional Distribution (DHV)	51%
18-KIP Equivalent P 2.0	497
18-KIP Equivalent P 2.5	474
Functional Class	Major/Urban Collector
Corridor Priority	4

PROJECT LOCATION:	0.29 MILES WEST OF THE JUNCTION OF RT 234 & PARLIN RD ON ROUTE 234 IN ANSON
PROGRAM AREA:	HIGHWAY
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

GRAPHIC SCALE
2000 0 1000 2000
(IN FEET)
1 inch = 2000 ft.

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
42 CHURCH STREET LIVERMORE FALLS, MAINE 04254
PHONE: (207)-897-6752 FAX: (207)-897-5404
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WIN 20353.00

ANSON
ROUTE 234

TITLE SHEET

SHEET NUMBER
1
OF 8

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER — DATE 5/3/16
CHIEF ENGINEER — DATE 4-28-16

STATE OF MAINE RICHARD W. DUNTON No. 12485 LICENSED PROFESSIONAL ENGINEER

SIGNATURE
12485
P.E. NUMBER
2016-04-20
DATE

PROJECT INFORMATION
PROGRAM: HIGHWAY
PROJECT MANAGER: G. WHITTINGTON
DESIGNER: R. DUNTON
CONSULTANT: MAIN-LAND
PROJECT RESIDENT:
CONTRACTOR:
PROJECT COMPLETION DATE:

Date: 04/19/16
Username: RWD
Filename: 14-156

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.20	Common Excavation	537	CY
203.25	Granular Borrow	176	CY
304.10	Aggregate Subbase Course – Gravel	265	CY
403.208	Hot Mix Asphalt 12.5mm Surface	54	T
403.213	Hot Mix Asphalt 12.5mm Base	32	T
409.15	Bituminous Tack Coat Applied	10	G
511.07	Cofferdam: Upstream	1	LS
511.07	Cofferdam: Downstream	1	LS
526.301	Temporary Concrete Barrier Type 1	1	LS
603.618	87"x63" Steel Pipe Arch	80	LF
610.08	Plain Riprap	25	CY
613.319	Temporary Erosion Control Blanket	125	SY
615.07	Loam	36	CY
618.14	Seeding, Method Number 2	3	UN
619.12	Mulch	3	UN
619.14	Erosion Control Mix	10	CY
620.58	Erosion Control Geotextile	50	SY
627.733	4 Inch White or Yellow Pavement Marking Line	435	FT
629.05	Hand Labor, Straight Time	10	HR
631.12	All Purpose Excavator (Including Operator)	10	HR
631.172	Truck – Large (Including Operator)	10	HR
639.19	Field Office Type B	1	EA
643.72	Temporary Traffic Signal	1	LS
652.312	Type 3 Barricade	6	EA
652.33	Drum	20	EA
652.34	Cone	50	EA
652.35	Construction Signs	116	SF
652.36	Maintenance of Traffic Control Devices	40	CD
652.38	Flagger	350	HR
656.75	Temporary Soil Erosion & Water Pollution Control	1	LS
659.10	Mobilization	1	LS

GENERAL NOTES

1. The utilities involved in this contract are as follows: overhead electric and communications on CMP utility poles.
2. Temporary ramps shall be constructed with one foot of length for every 1/4" of transition depth on the leading and the trailing end. Materials, placement, maintenance, and removal shall be incidental to contract items.
3. Clearing limits shall be 10' beyond and parallel to the construction slope lines or as shown on the plans unless otherwise authorized by the Resident.
4. All clearing shall be considered incidental to the contract and no separate payment will be made. The actual lines for clearing shall be established in the field by the contractor as indicated on the plans and approved by the Resident.
5. All inslope and ditches in cut areas shall be graded as shown on the typicals or flatter, or as directed by the Resident.
6. All waste material not used on the project shall be disposed of off the project in acceptable waste areas reviewed by the Resident. Grading, seeding and mulching of waste areas shall be considered incidental.
7. Granular Borrow used under pipes shall meet the requirements for Underwater Backfill
8. No existing drainage shall be abandoned, removed or plugged without prior approval of the Resident.
9. Inlets and outlets of all culverts shall be riprapped unless otherwise noted on the plans or directed by the Resident.
10. The contractor is responsible for the careful side staking of existing centerline as per Standard Specification 105.6.2. Side stakes shall be placed safely outside of the construction limits and the existing centerline grades shall be transferred to these stakes. These stakes and grades will be used to layout centerline and determine new construction finish grades from differential elevation sheets furnished by MaineDOT. All layout, stakes, and grades will be checked and must be acceptable to the Resident.
11. 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.
12. The fill quantity shown on the cross sections includes the waste storage.
13. Areas requiring fill on the project will come from suitable excavation from excavation, ditch and inslope or equipment rental 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. Stations referenced are approximate.
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.

GEOTECHNICAL NOTES

1. A copy of the soils report for this project is available at http://www.maine.gov/mdot/contractors/, or contact Region 3 Project Manager Guy Whittington

CONSTRUCTION NOTES

1. All joints between existing and proposed hot bituminous pavement shall be saw cut. Payment shall be incidental to the 403 items.
2. Removal and disposal of existing culvert pipes, excavation for the removal of existing culverts, and excavation for the installation of new culvert (including stable slopes/trench reinforcement) is incidental to item number 603.618 87"x63" Steel Pipe Arch.
3. Removal and disposal of existing pavement shall be paid for under item number 203.20 Common Excavation.
4. During construction, alternating two-way traffic will be maintained using traffic signal lights. A minimum of one 12' lane will be maintained at all times. this shall be addressed in the Contractor's Traffic Control Plan. Traffic signal lights, construction signs, traffic control devices and flaggers as needed will be paid with the appropriate Contract Items. All other work associated with maintenance of traffic, including but not limited to gravel work, shall be considered incidental to Item 603.618.
5. Traffic signal lights will be installed for each direction of travel. Payment will be made under Item 643.72 as one Lump Sum to include the use of multiple signal light units.
6. Loam shall be placed at a depth of 2" on all disturbed areas or as directed by the resident and shall be seeded by Method Number 2 and mulched.

MAIN-LAND
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 20353.00

WIN 20353.00

HIGHWAY PLANS

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	G. WHITTINGTON
DESIGNER	R. DUNTON
CONSULTANT	MAIN-LAND
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE

P.E. NUMBER

DATE

ANSON
ROUTE 234

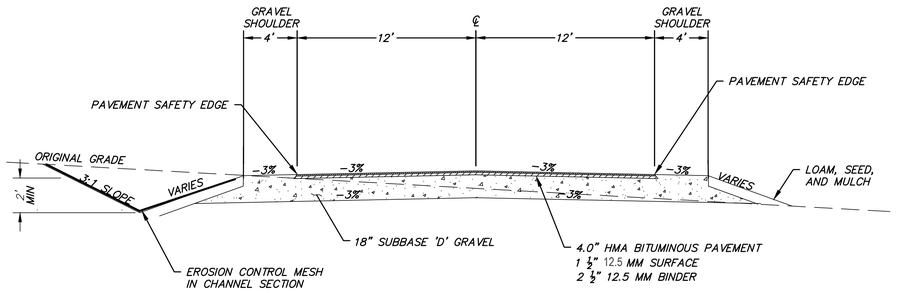
ESTIMATED QUANTITIES &
GENERAL NOTES

SHEET NUMBER
2
OF 8

Date: 04/19/2016

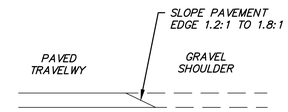
Username: RWD

Filename: 14-156



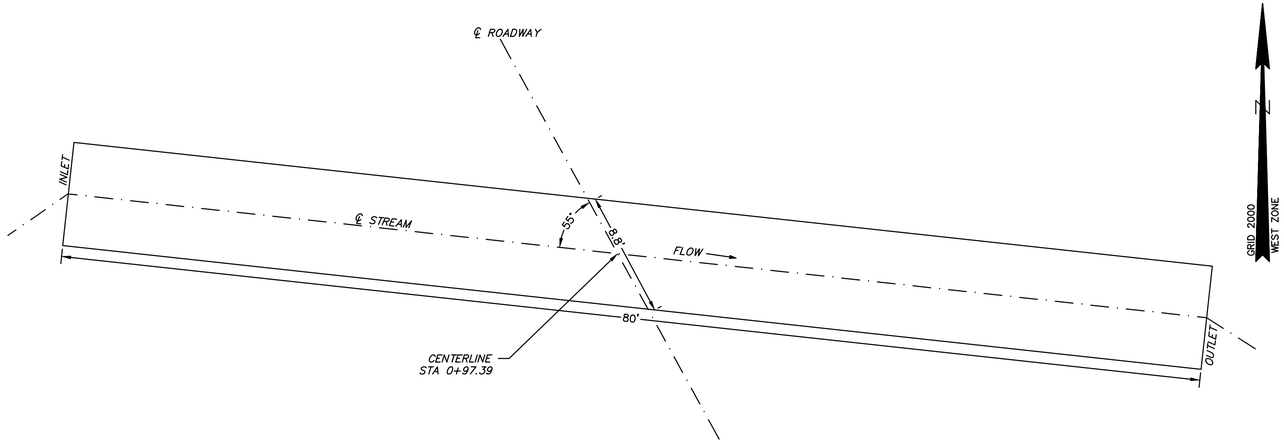
TYPICAL FULL CONSTRUCTION SECTION

NOT TO SCALE



TYPICAL PAVEMENT SAFETY EDGE

NOT TO SCALE

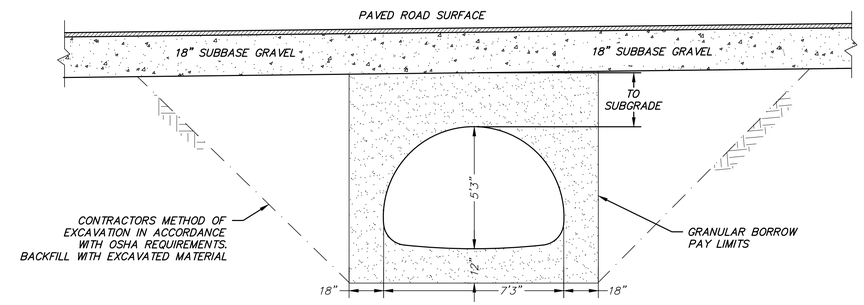


PLAN VIEW

5 0 2.5 5

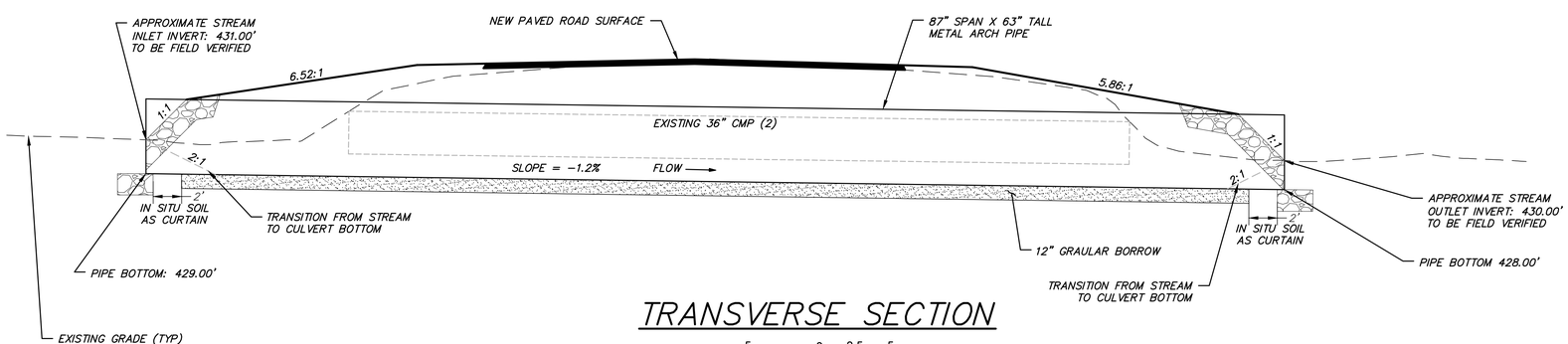
(IN FEET)

1 INCH = 5 FT



TYPICAL ARCH PIPE SECTION & PAY LIMITS

NOT TO SCALE



TRANSVERSE SECTION

5 0 2.5 5

(IN FEET)

1 INCH = 5 FT

NOTES

1. The pavement base and subbase depths as shown on the plans are intended to be nominal.
2. The gravel quantity calculation is based on a 2" loam or dirty borrow depth. The actual depth vary. See general notes.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 20353.00

WIN 20353.00

HIGHWAY PLANS

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	G. WHITTINGTON
DESIGNER	R. DUNTON
CONSULTANT	MAIN-LAND
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE

P.E. NUMBER

DATE

ANSON
ROUTE 234

CULVERT DETAILS

MAIN-LAND
DEVELOPMENT
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PHONE: (207)-897-6752 FAX: (207)-897-5404
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SHEET NUMBER

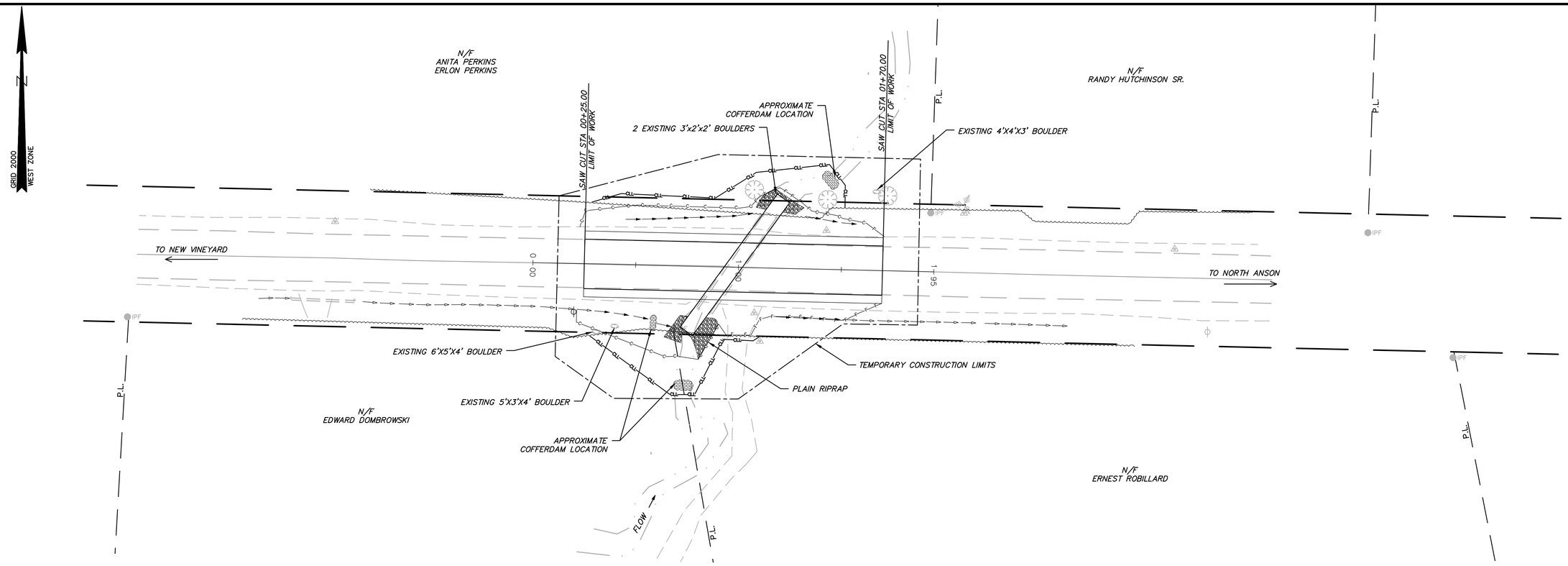
3

OF 8

Date: 04/19/2016

Username: RWD

Filename: 14-156

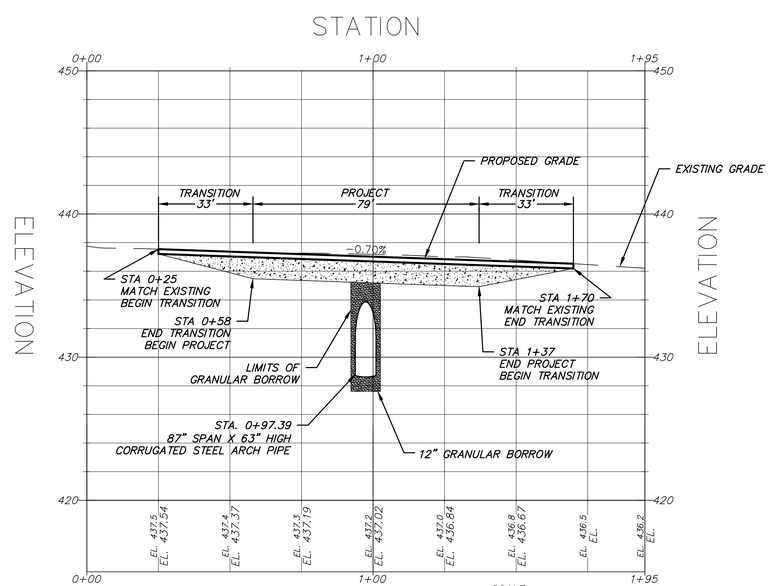


PLAN VIEW

GRAPHIC SCALE

25 0 12.5 25

(IN FEET)
1 inch = 25 ft.



PROFILE

SCALE:
HORIZONTAL 1"=25'
VERTICAL 1"=5'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 20353.00

WIN 20353.00

HIGHWAY PLANS

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	G. WHITTINGTON
DESIGNER	R. DUNTON
CONSULTANT	MAIN-LAND
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE

P.E. NUMBER

DATE

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ROUTE 234

SITE PLAN & PROFILE

MAIN-LAND
DEVELOPMENT
CONSULTANTS, INC.

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www.main-landdevelopment.com/

SHEET NUMBER

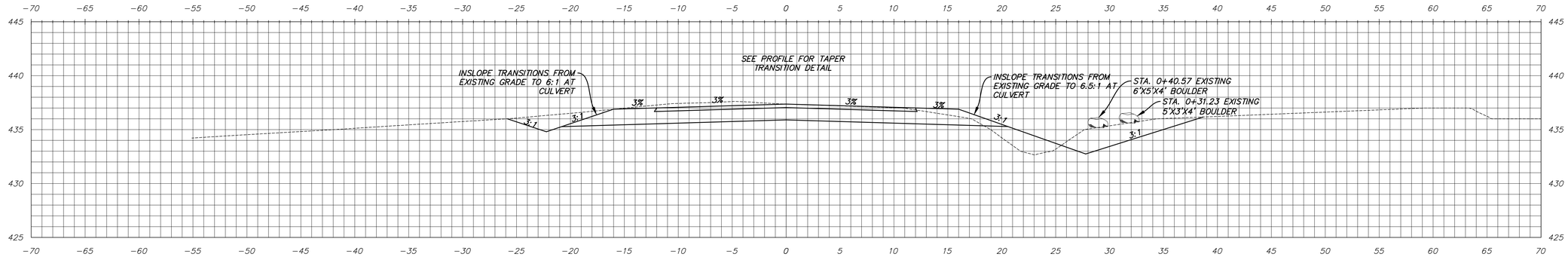
4

OF 8

Date: 04/06/15

Username: RWD

Filename: 14-156



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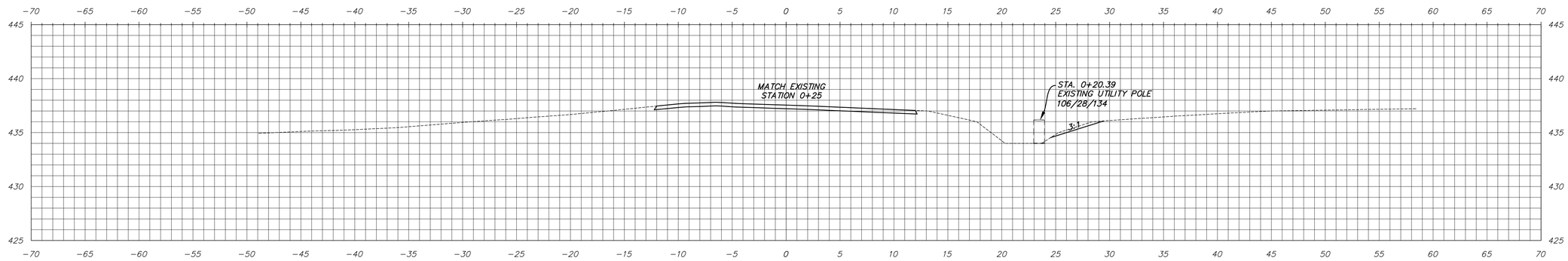
SLOPE TRANSITION AS DIRECTED BY PROJECT RESIDENT



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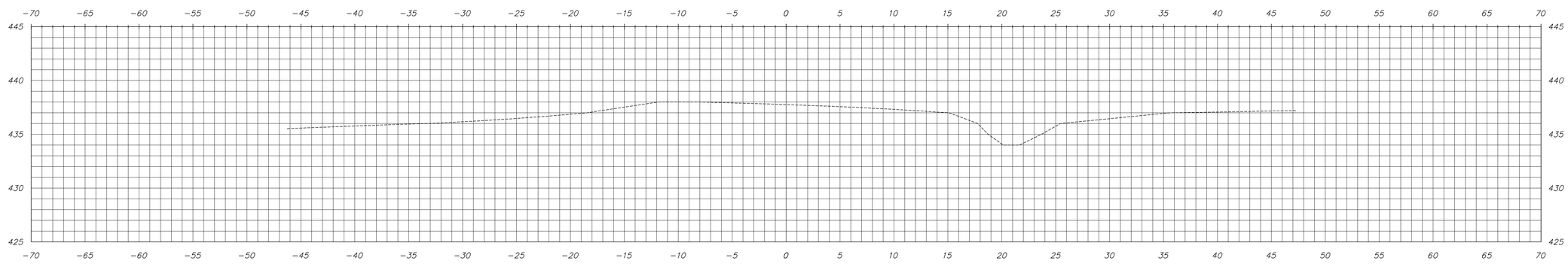


0+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 20353.00

WIN 20353.00

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	G. WHITTINGTON
DESIGNER	R. DUNTON
CONSULTANT	MAIN-LAND
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

ANSON
ROUTE 234

CROSS SECTIONS

MAIN-LAND
DEVELOPMENT
CONSULTANTS, INC.
42 CHURCH STREET LIVERMORE FALLS, MAINE 04254
PHONE: (207)-897-6752 FAX: (207)-897-5404
www.main-landdci.com

SHEET NUMBER

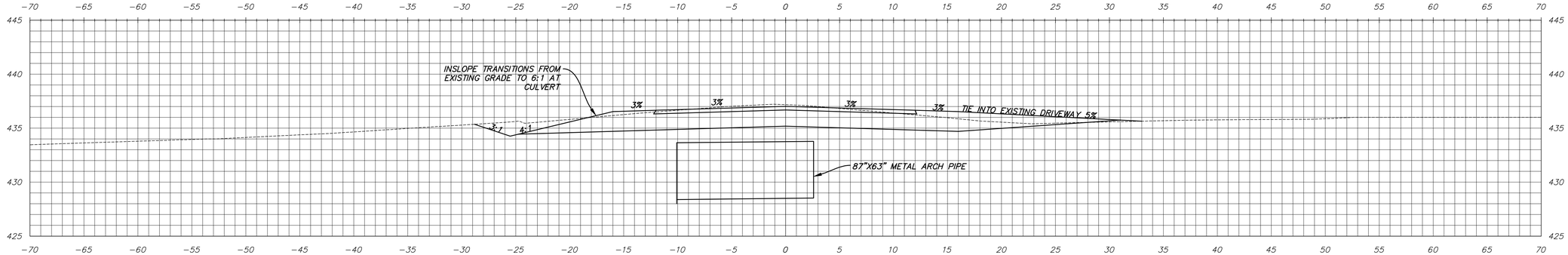
5

OF 8

Date: 04/19/2016

Username: RWD

Filename: 14-156



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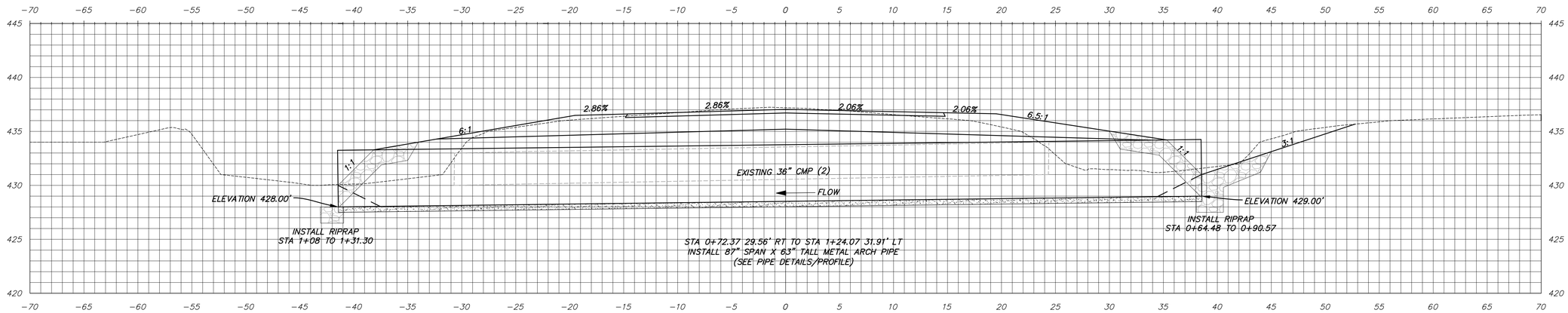
SLOPE TRANSITION AS DIRECTED BY PROJECT RESIDENT



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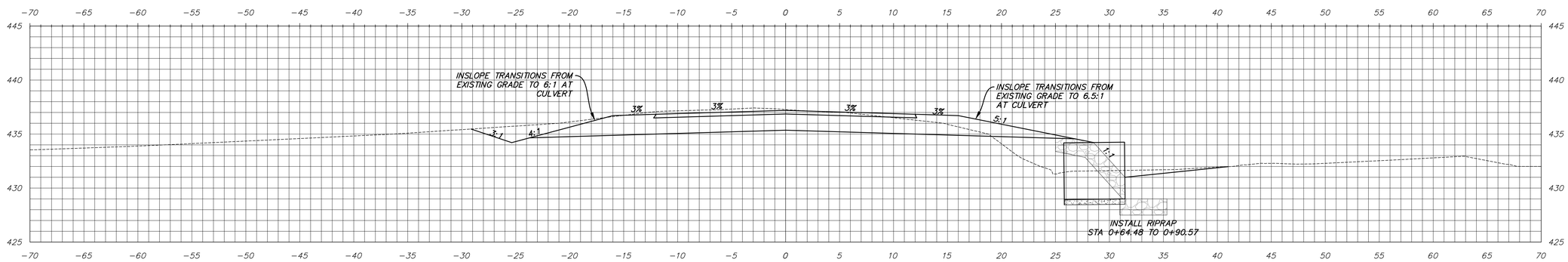
SKEW 55° TO ℄



0+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 20353.00

WIN 20353.00

HIGHWAY PLANS

PROJECT INFORMATION

PROGRAM	HIGHWAY	SIGNATURE
PROJECT MANAGER	G. WHITTINGTON	
DESIGNER	R. DUNTON	P.E. NUMBER
CONSULTANT	MAIN-LAND	
PROJECT RESIDENT		DATE
CONTRACTOR		
PROJECT COMPLETION DATE		

ANSON
ROUTE 234

CROSS SECTIONS

MAIN-LAND
DEVELOPMENT
CONSULTANTS, INC.

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www.main-landdci.com

SHEET NUMBER

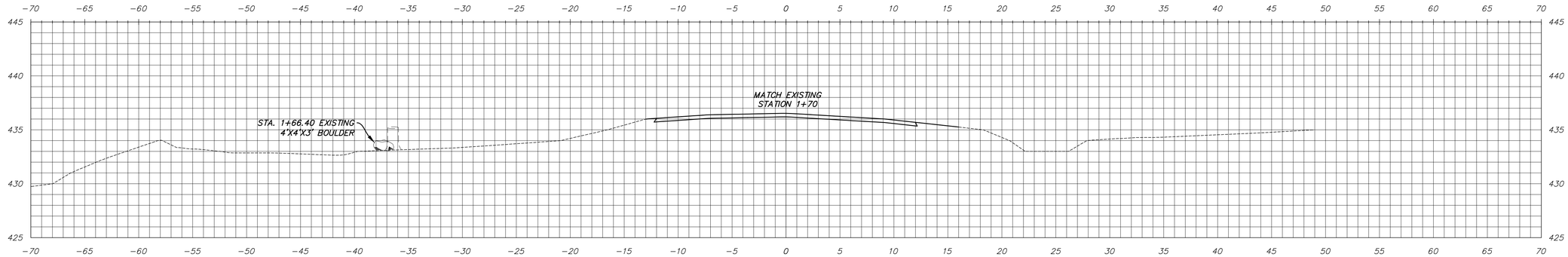
6

OF 8

Date: 04/19/2016

Username: RWD

Filename: 14-156



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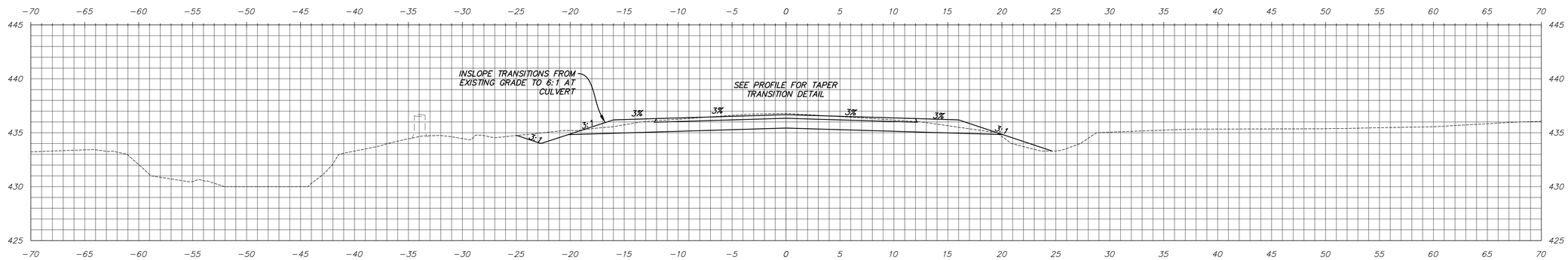
SLOPE TRANSITION AS DIRECTED BY PROJECT RESIDENT



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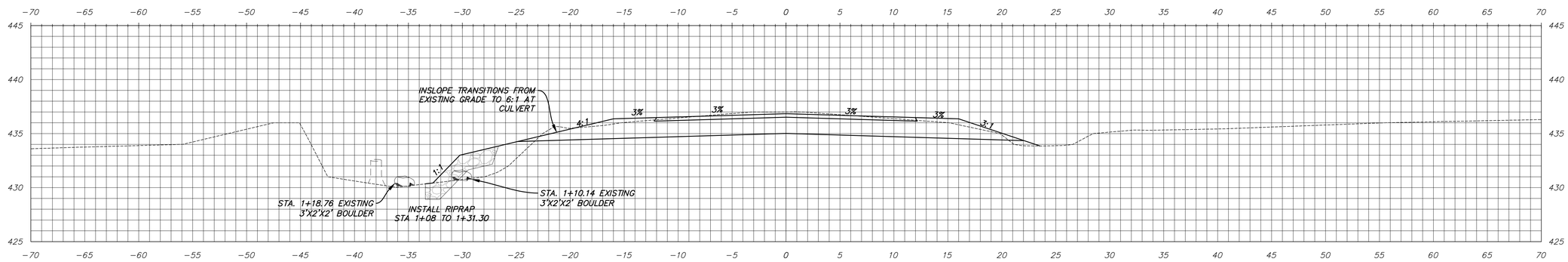

1+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 20353.00

WIN 20353.00

HIGHWAY PLANS

PROJECT INFORMATION		SIGNATURE
PROGRAM	HIGHWAY	
PROJECT MANAGER	G. WHITTINGTON	
DESIGNER	R. DUNTON	P.E. NUMBER
CONSULTANT	MAIN-LAND	
PROJECT RESIDENT		DATE
CONTRACTOR		
PROJECT COMPLETION DATE		

ANSON
ROUTE 234

CROSS SECTIONS

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SHEET NUMBER

7

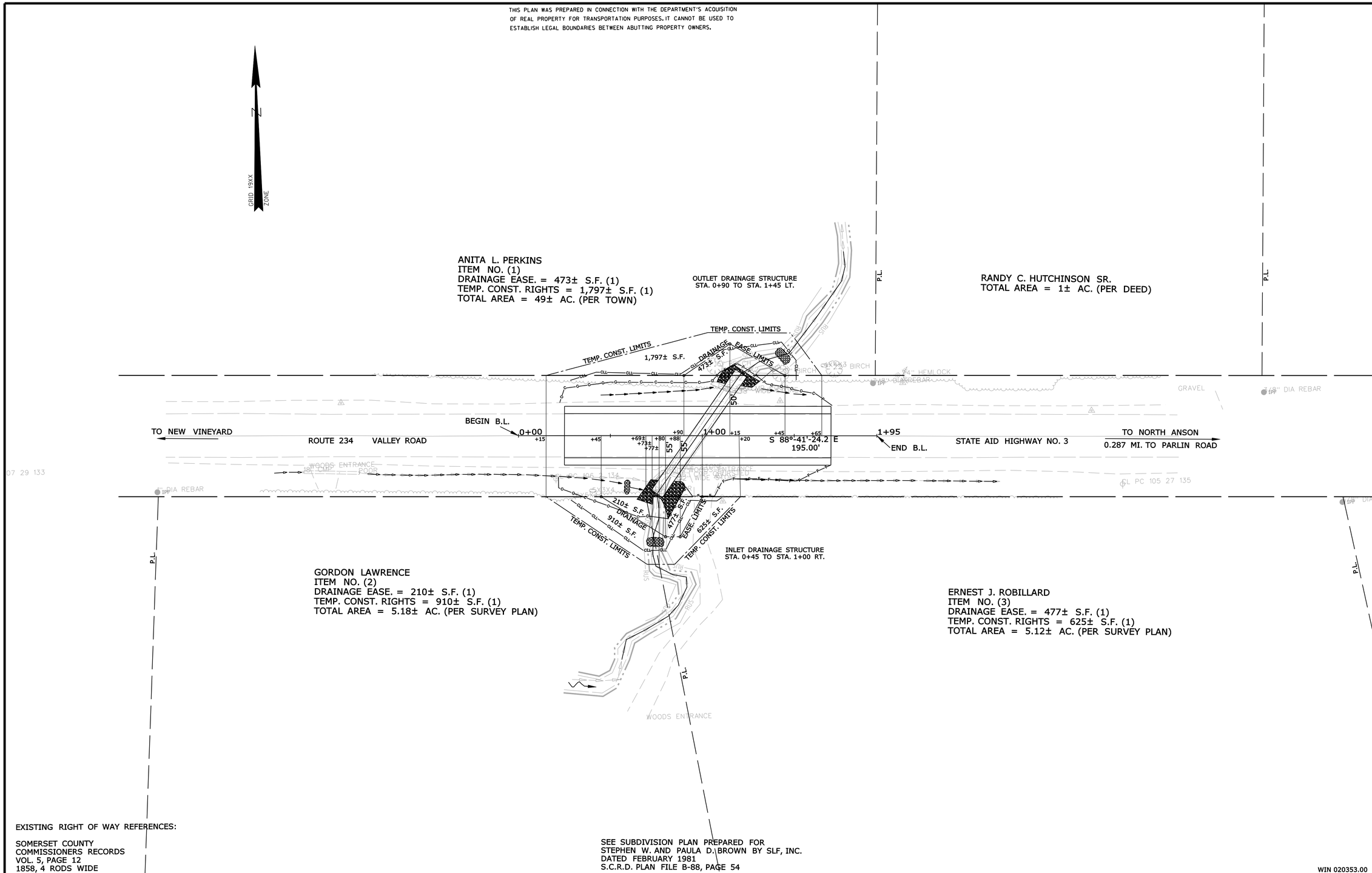
OF 8

Date: 04/19/2016

Username: RWD

Filename: 14-156

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 ABUTTING PROPERTY OWNERS.



EXISTING RIGHT OF WAY REFERENCES:

SOMERSET COUNTY
COMMISSIONERS RECORDS
VOL. 5, PAGE 12
1858, 4 RODS WIDE

SEE SUBDIVISION PLAN PREPARED FOR
STEPHEN W. AND PAULA D. BROWN BY SLF, INC.
DATED FEBRUARY 1981
S.C.R.D. PLAN FILE B-88, PAGE 54

WIN 020353.00

SYMBOLS

- IP or ● IPF (IRON PIPE or PIN FOUND)
- ☐ ST. (SEPTIC TANK)
- ⊡ (ROW MONUMENT)
- ⚠BM (TRAVERSE POINT)
- WELL (WELL)
- GRADING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE PL
- LIMITS OF WROUGHT PORTION (L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

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

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	3/21/16	5009	245

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE AID HIGHWAY NO. 3
VALLEY ROAD ROUTE 234
ANSON SOMERSET COUNTY
STATE PROJECT NO. 20353.00

JUNE 2015 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 13-384
SCALE 1" = 25' | SHEET 1 OF 1

SHEET NUMBER
8
OF 8

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: ROW Username: diana.grady Date:4/20/2016