STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

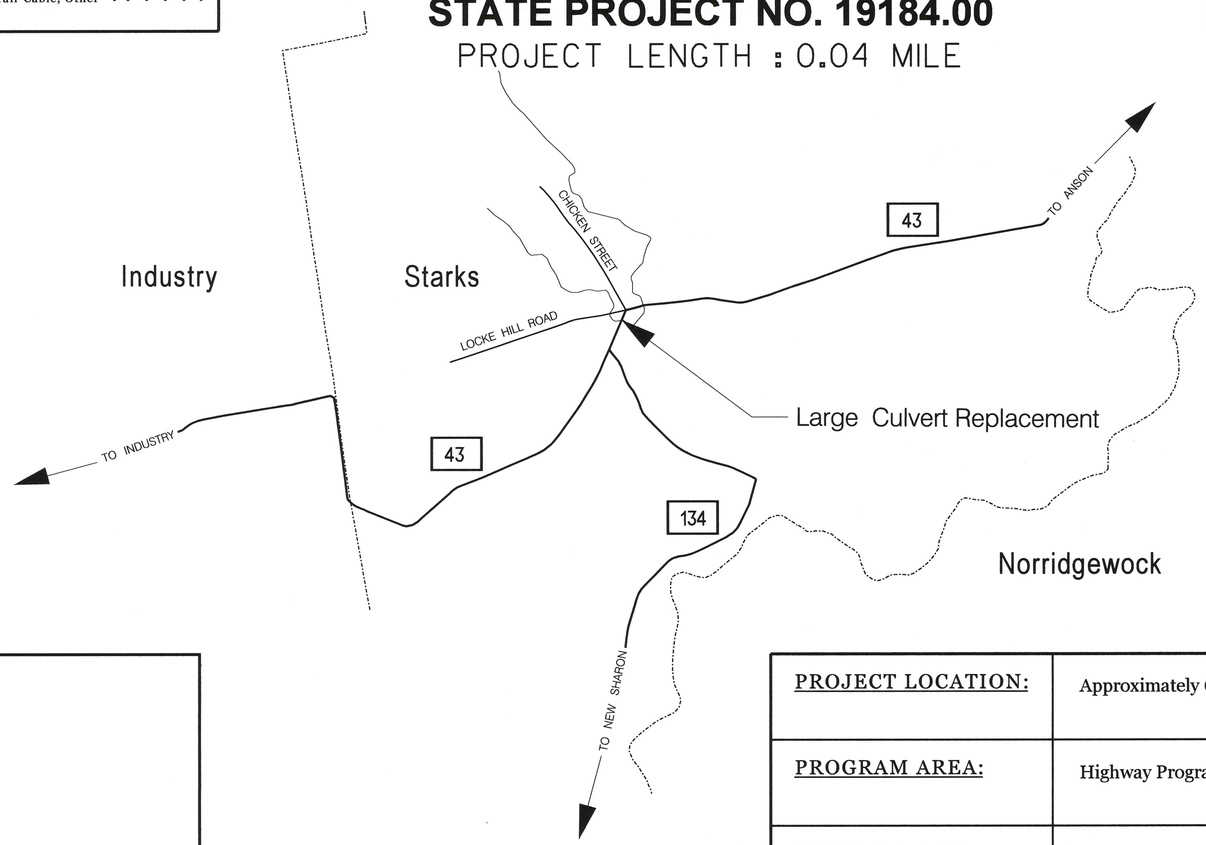
PLAN LEGEND

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 — Conifer — Deciduous
Tree Line
Clearing Limit Line — CLL
Centerline-Existing
Centerline-Proposed — 10+00
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins — Existing — Proposed
Manholes — Existing — Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utlity Poles — Existing — Proposed
Fire Hydrants — Existing — Proposed
Existing Water Line
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

STARKS
SOMERSET COUNTY
ROUTE 43
STATE PROJECT NO. 19184.00
PROJECT LENGTH : 0.04 MILE

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Estimated Quantities/General Notes	2
Culvert Details	3
Plan / Profile	4
Cross - Sections	5 - 9
Detour Plan	10
Right of Way Map	11



LAYOUT SCALE

1 0 1 2
Scale in Miles

TRAFFIC DATA

Current (2013) AADT.....790
Functional Class:.....Major Collector
Design Speed:.....35 mph
Highway Corridor Priority.....4

PROJECT LOCATION:	Approximately 0.15 miles East of the intersection of Route 134.
PROGRAM AREA:	Highway Program
SCOPE OF WORK:	Large Culvert Replacement

WIN 19184.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED — DATE
COMMISSIONER: 2/3/15
CHIEF ENGINEER: 2-3-15

STATE OF MAINE — MARK HUME — No. 7957 — PROFESSIONAL ENGINEER — LICENSED

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	D. COOMBS
DESIGNER	T. ADAMS
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE
7957
P.E. NUMBER
1-5-15
DATE

STARKS
ROUTE 43
TITLE SHEET

SHEET NUMBER
1
OF 11

Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:1/5/2015

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.20	COMMON EXCAVATION	210	CY
203.25	GRANULAR BORROW	725	CY
203.33	SPECIAL FILL	30	CY
203.35	CRUSHED STONE FILL	40	CY
206.07	STRUCTURAL ROCK EXC. - DRAINAGE AND MINOR STRUCTURES	10	CY
304.10	AGGREGATE SUBBASE COURSE GRAVEL	210	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	35	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	90	T
409.15	BITUMINOUS TACK COAT - APPLIED	55	G
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE I (60 LF)	1	LS
603.2891	96" RCP CLASS 3	72	LF
603.55	CONCRETE PIPE TIES	2	GP
610.08	PLAIN RIPRAP	95	CY
615.07	LOAM	30	CY
618.14	SEEDING METHOD NUMBER 2	5	UN
619.1201	MULCH	5	UN
619.1401	EROSION CONTROL MIX	10	CY
620.58	EROSION CONTROL GEOTEXTILE	35	SY
627.733	4 INCH WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	600	LF
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
652.312	TYPE 3 BARRICADE	4	EA
652.33	DRUM	10	EA
652.34	CONE	30	EA
652.35	CONSTRUCTION SIGNS	625	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	30	CD
652.38	FLAGGER	200	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	3	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS
825.551	8" HDPE WATERMAIN RELOCATION	1	LS

GENERAL NOTES

1. Any necessary cleaning of existing pavement prior to paving shall be incidental to the related paving items.

2. The following shall be incidental to Item 603.2891:
- Any cutting of existing culverts and/or connectors necessary to install the new culvert replacement.
- All ditching at pipe ends.
- Granular borrow under the pipe shall meet the requirements for underwater backfill.
- Any necessary clearing of brush and non-pay trees at culvert ends.
- All excavation required for the removal of the existing culvert and installation of the proposed structure below ASCG.
- Removal and disposal of the existing culvert.

3. No existing drainage shall be abandoned or plugged without prior approval of the Resident.

4. Loam shall be placed to a nominal depth of 2" on the inslope.

5. Any damage to the slopes caused by the Contractor's equipment, personnel, or operations 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.

6. During the installation of the new structure, traffic may be routed in accordance with the Detour Plan on Sheet 9 of the plan set.

7. Portable Changeable Message Boards will be placed a minimum of one week prior to any construction activities which require a detour.

8. For easements, construction limits and right of way lines, refer to Right of Way Map.

9. 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 the Contract.

10. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

11. All embankment material, except as otherwise shown, placed below normal high water elev shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.

12. The hydrologic report of the stream site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction. The MaineDOT web address is http://www.maine.gov/mdot/contractors/.

13. The fill to be placed inside the culvert shall consist of a combination of streambed dredge material, subangular cobbles/boulders, and other granular material as needed to supplement the amount required. All added material shall meet the requirements of Special Provision 203.33. The material shall be placed as directed by the Resident.

14. Saw cut joints shall be considered incidental to Item 203.20

15. All waste material not used on the project shall be disposed of in acceptable waste areas reviewed by the Resident. Grading, seeding, and mulching of waste areas shall be considered incidental to 656 items.

16. No separate payment for superintendent of foreman will be made for the supervision of equipment being paid for under the equipment rental items.

17. All work shall be done in accordance with the Maine Department of Transportation's Best Management Practices for Erosion & Sedimentation Control, February 2008.

18. Stations referenced in the construction notes are approximate.

19. The Contractor shall adhere to the Maine DOT Standard Specification: Section 104.4.10 Coordination of Bridge Closure/Bridge Width Restriction Notification.

20. Stone which cannot be rolled or compacted into the surface of the shoulder shall be removed by hand raking. Payment for hand raking will be considered incidental to Item 304.10 Aggregate Subbase Course - Gravel.

GEOTECHNICAL NOTES

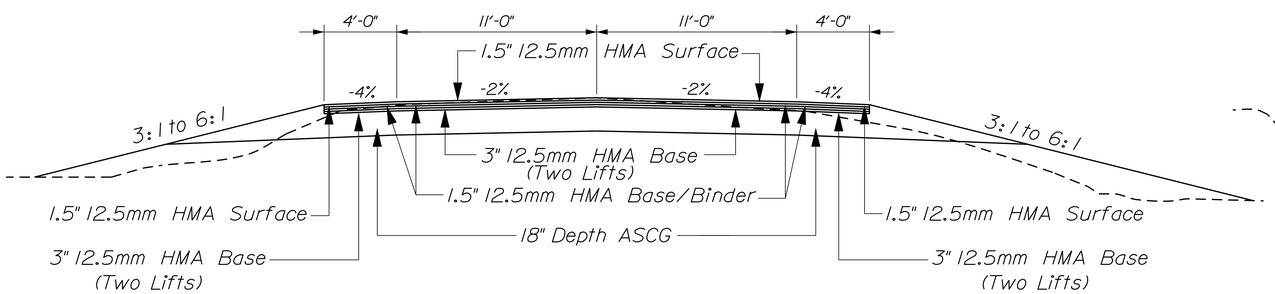
1. The Geotechnical Report For This Project, GEOTECHNICAL DESIGN REPORT FOR CONSTRUCTION OF LARGE CULVERT REPLACEMENT; INDUSTRY ROAD (ROUTE 43), STARKS, MAINE, MAINEDOT SOILS REPORT NUMBER 2014-110, APRIL 3, 2014, may be accessed at the following web address: http://www.maine.gov/mdot/contractors/.

2. Geotechnical information referenced in this plan set is for the Bidders' and Contractor's use. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the time of construction. The Department shall not be responsible for the Bidder's and Contractor's interpretation of, or conclusions drawn from, the geotechnical information. The Boring Logs contained in the Geotechnical Report present interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between boring locations.

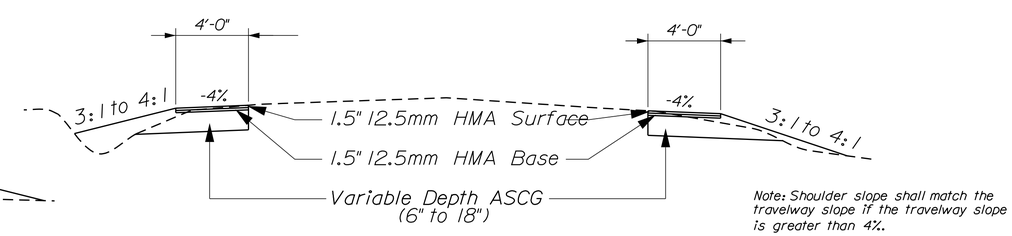
3. Where new embankment fills are placed on existing slopes steeper than 2H:1V and as shown on the plans, the existing slope shall be continiously benched as per Standard Specification 203.09 and OSHA requirements for excavation.

4. Cobbles and boulders larger than 6 inches encountered at subgrade shall be removed. Holes below subgrade that result from their removal shall be backfilled with native soil and compacted. Payment will be incidental to Item 203.20.

5. The entire embankment, including the areas beyond the 1.5H:1V line extending from the finished shoulder, shall be compacted.



Roadway Template - Mainline And Shoulders



Note: Shoulder slope shall match the travelway slope if the travelway slope is greater than 4%.

Roadway Template - Shoulders Only

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

19184.00

WIN 19184.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	D. Coombs		
DESIGN-DETAILED	T. Adams		
CHECKED-REVIEWED	S. Kelly		
DESIGN2-DETAILED2	J. Wallace		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

STARKS
ROUTE 43

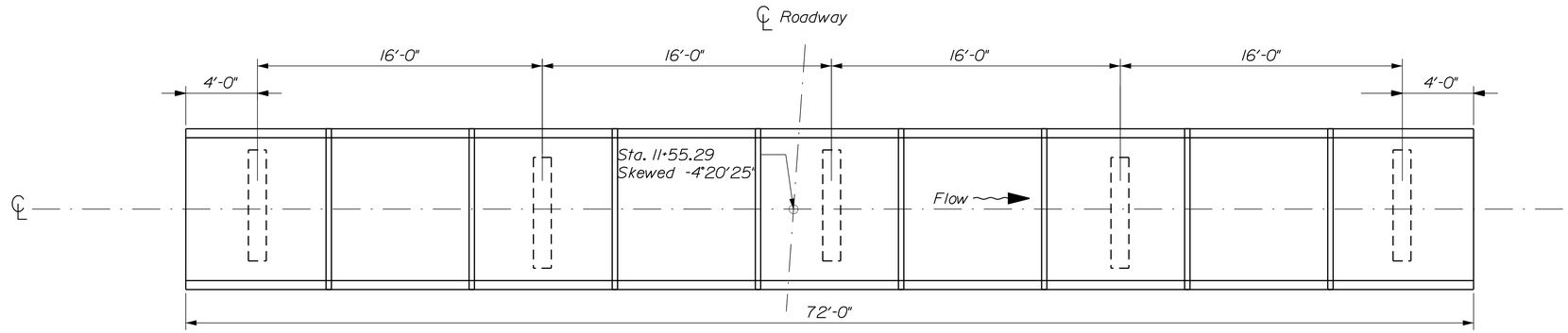
ESTIMATED QUANTITIES AND
GENERAL CONSTRUCTION NOTES

SHEET NUMBER

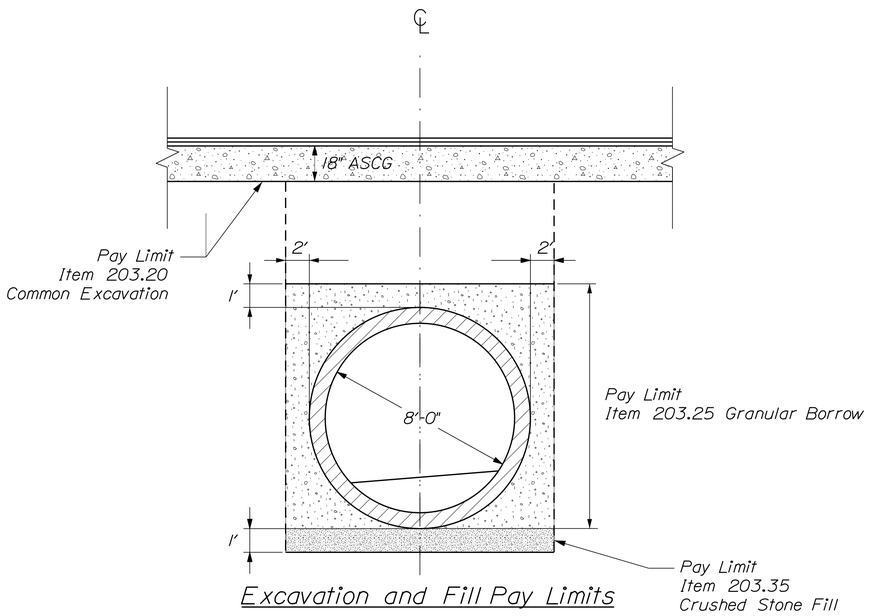
2

OF 11

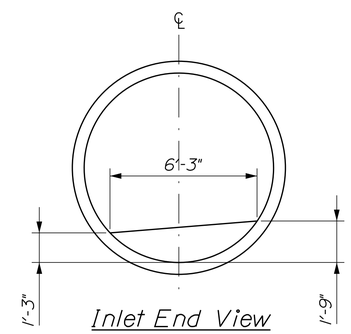
Filename: ...\002_Estimate&General Notes.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015



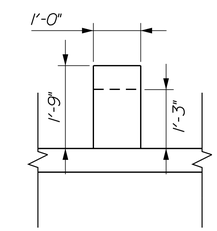
Plan View



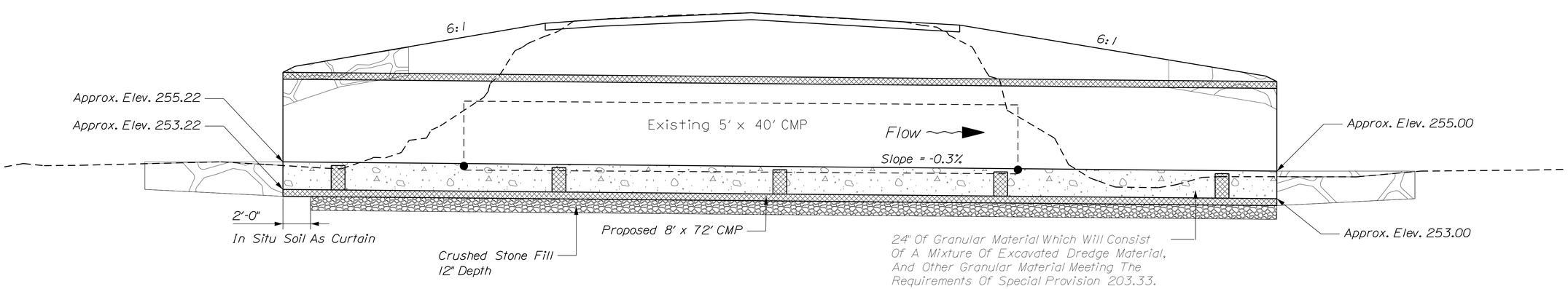
Excavation and Fill Pay Limits



Inlet End View



Retention Sill Side View



Transverse Section

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

19184.00

WIN
19184.00

HIGHWAY PLANS

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PROJ. MANAGER	D. Coombs	
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DESIGN2-DETAILED2	J. Wallace	
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REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

STARKS
ROUTE 43

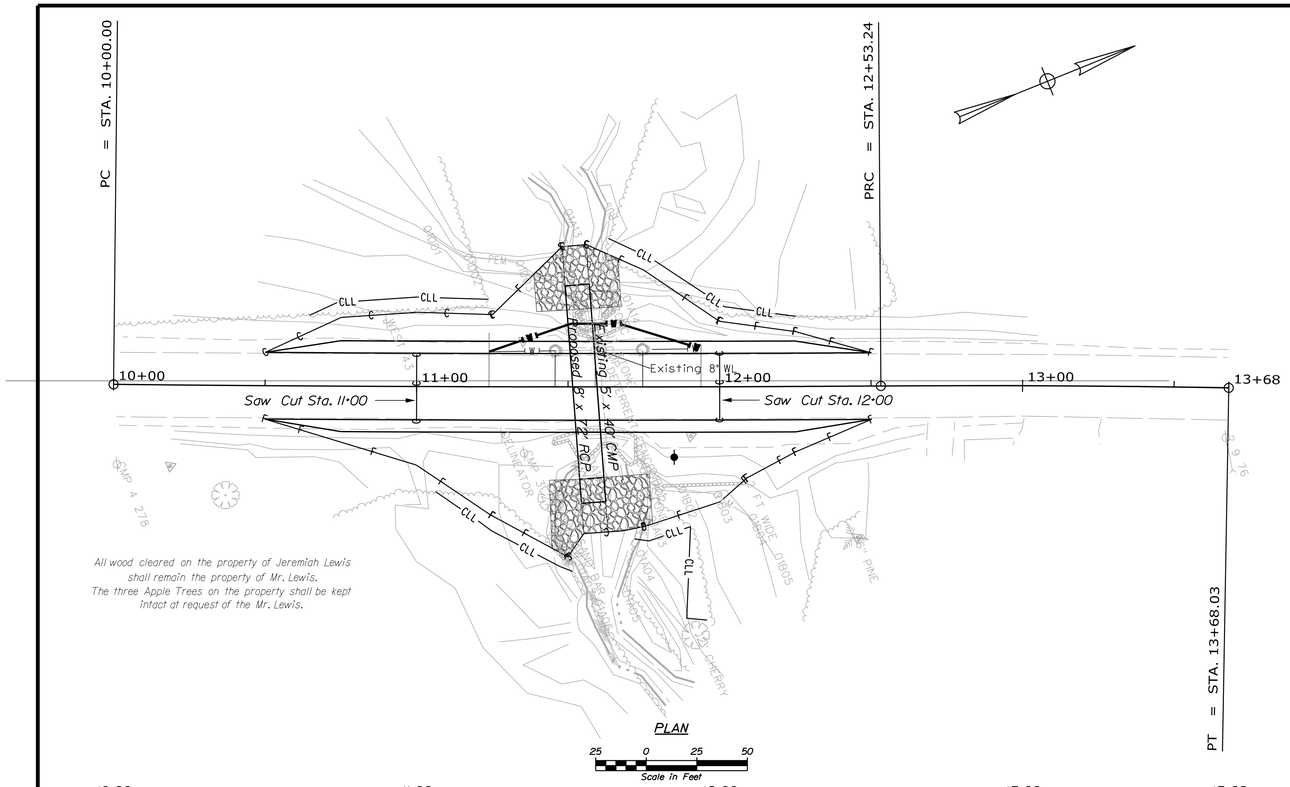
CULVERT DETAILS

SHEET NUMBER

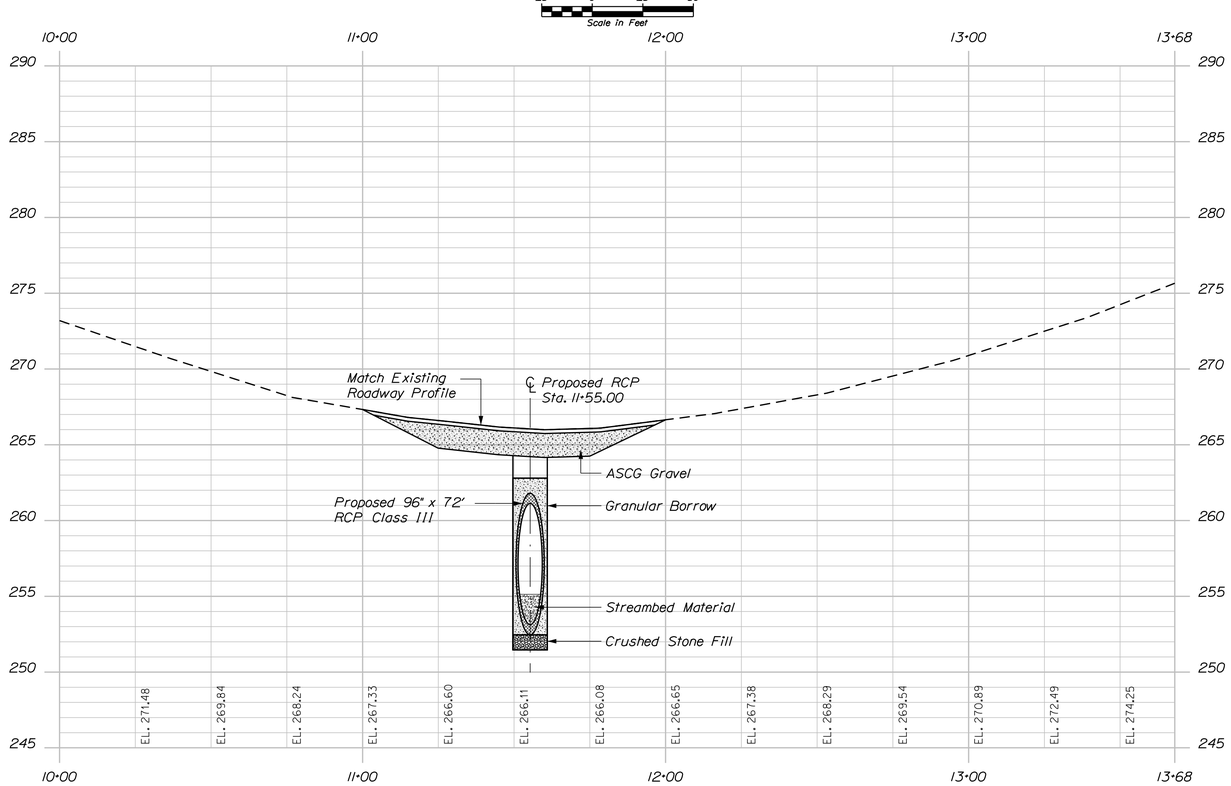
3

OF 11

Filename: ...\HIGHWAY\MSTA\003_Typical.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015



PLAN



PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

19184.00

PIN
19184.00

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SIGNATURE

P.E. NUMBER

DATE

STARKS
ROUTE 43

PLANS

SHEET NUMBER

4

OF 11

STA. 10+00.00 TO STA. 13+68.03

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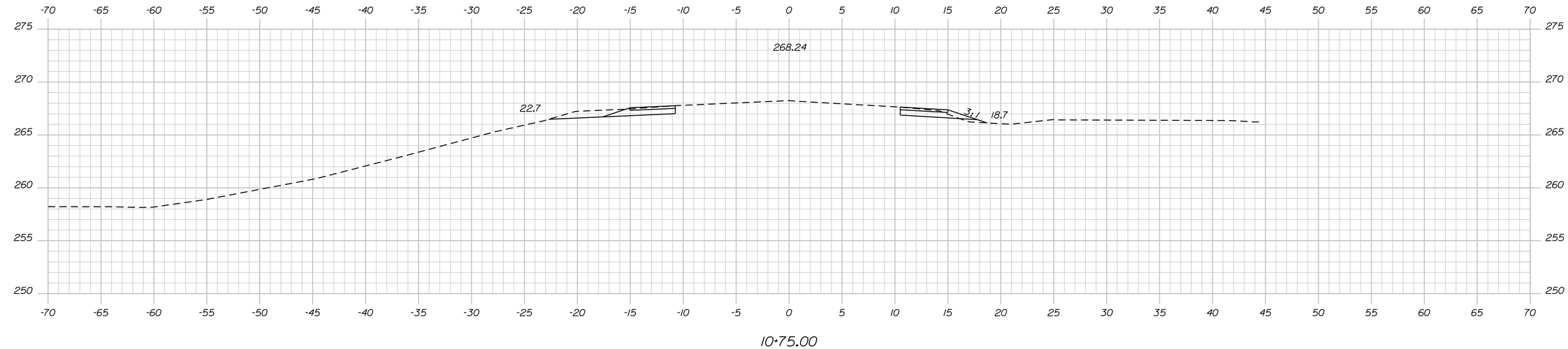

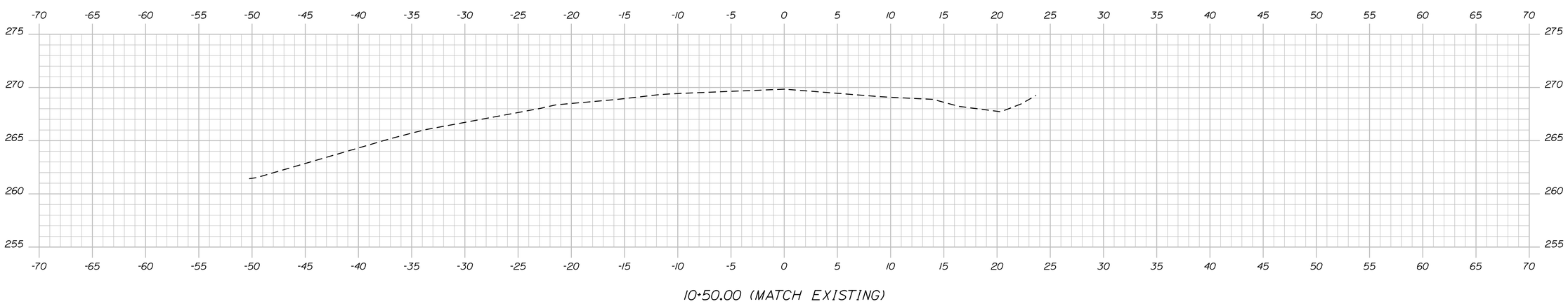

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019184.00

PIN 019184.00

PROJ. MANAGER	D. Coombs	BY	DATE
DESIGN-DETAILED	T. Adams		
CHECKED-REVIEWED	S. Kelly		
DESIGN2-DETAILED2	J. Wallace		
DESIGN3-DETAILED3			
REVISIONS 1			
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REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

STARKS
ROUTE 43

CROSS SECTIONS

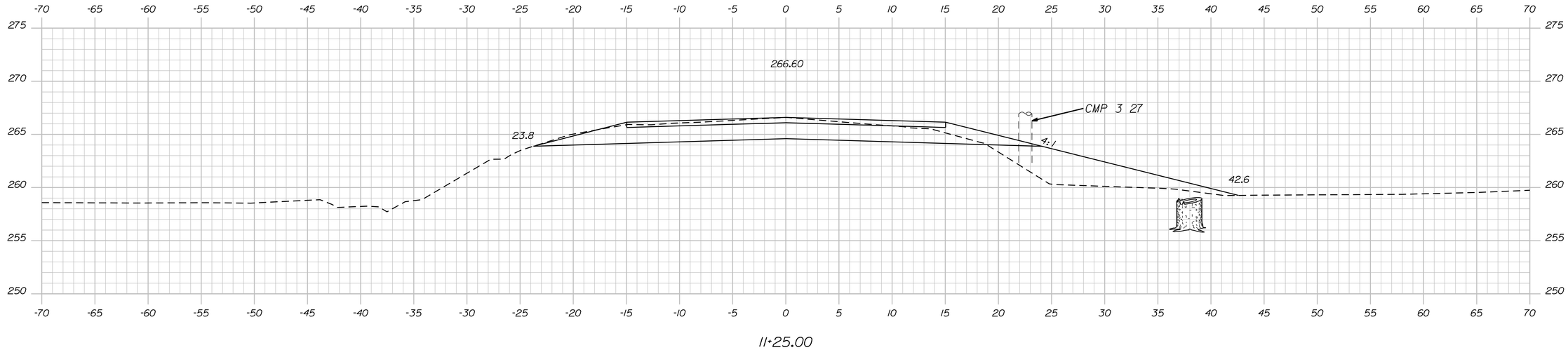
SHEET NUMBER

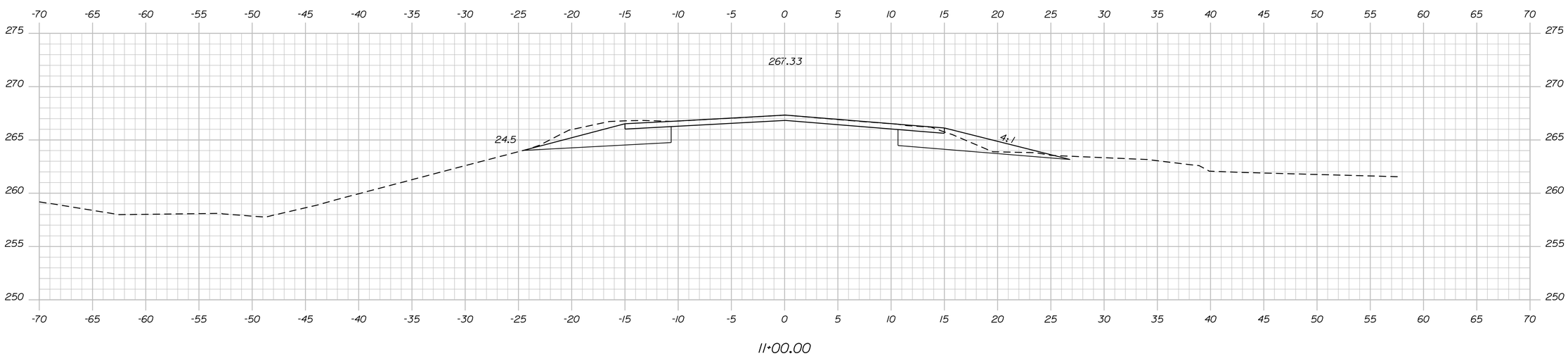
5

OF 11

Sta. 10+50.00 to Sta. 10+75.00

Filename: ...\00\HIGHWAY\MSTA\005_Xsect.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019184.00

WIN
019184.00

SIGNATURE

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DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STARKS
ROUTE 43

CROSS SECTIONS

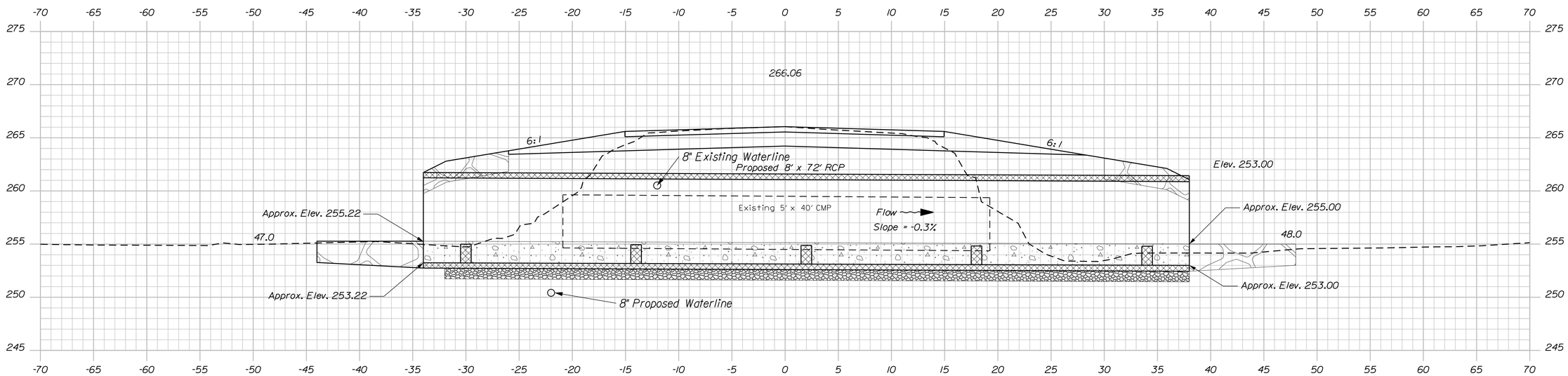
SHEET NUMBER

6

OF 11

Sta. 11+00.00 to Sta. 11+25.00

Filename: ...\00\HIGHWAY\MSTA\006_Xsect.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015



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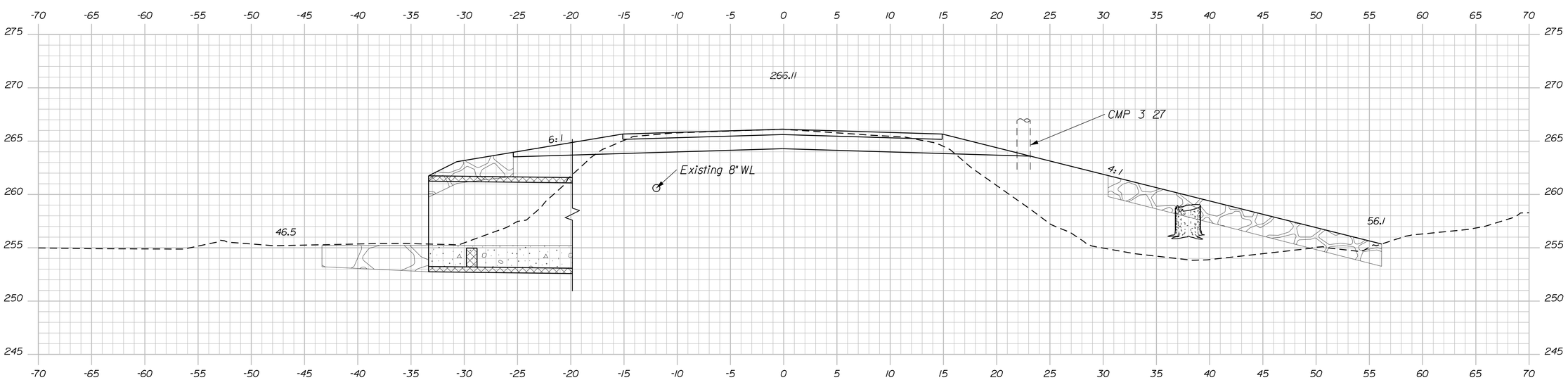

11+50.00

Sta. 11+50.00 to Sta. 11+55.29

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019184.00

WIN 019184.00

SIGNATURE

P.E. NUMBER

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PROJ. MANAGER	D. Coombs	BY	DATE
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REVISIONS 1			
REVISIONS 2			
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REVISIONS 4			
FIELD CHANGES			

STARKS
ROUTE 43

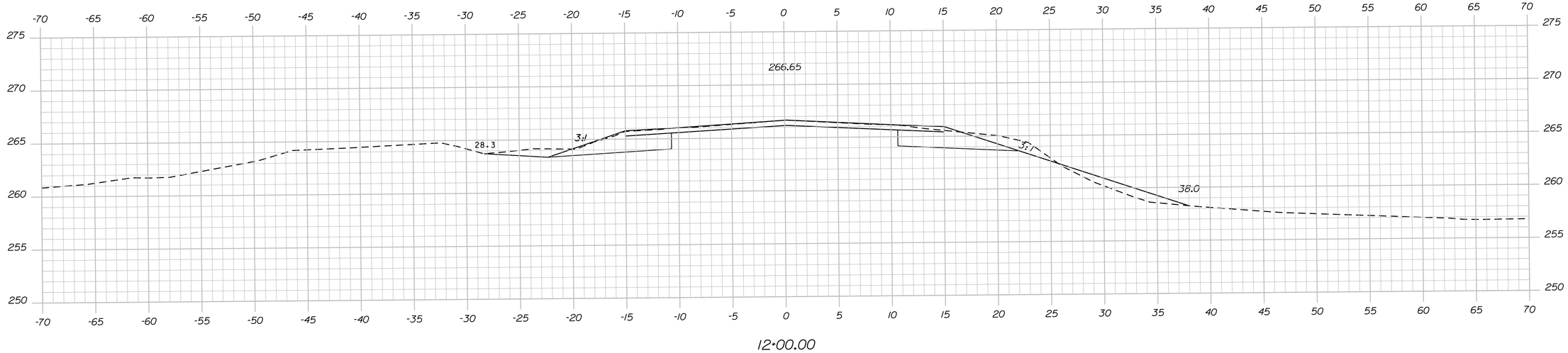
CROSS SECTIONS

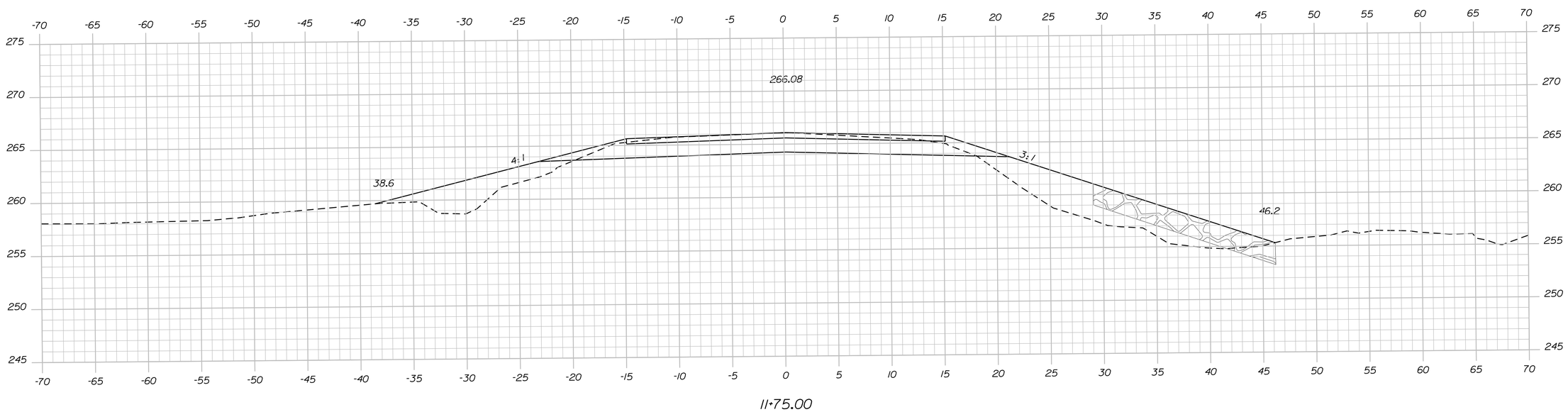
SHEET NUMBER

7

OF 11

Filename: ...\00\HIGHWAY\MSTA\007_Xsect.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019184.00

WIN
019184.00

PROJ. MANAGER	D. Coombs		
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REVISIONS 1			
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REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

STARKS
ROUTE 43

CROSS SECTIONS

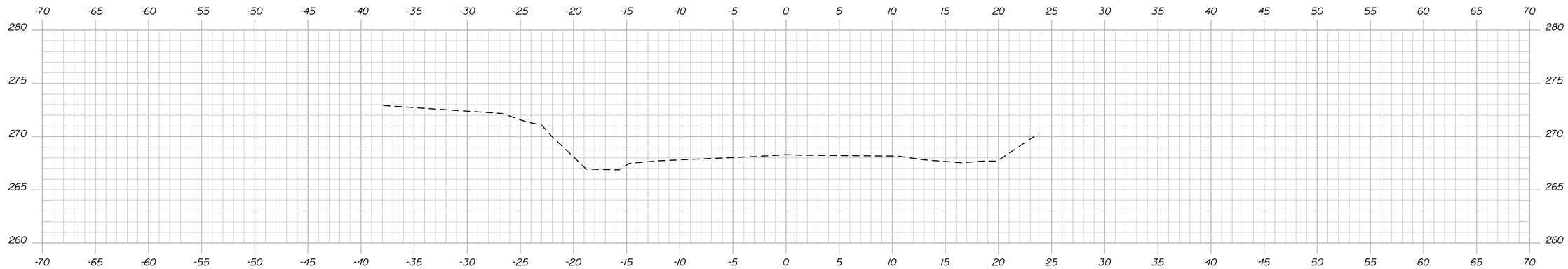
SHEET NUMBER

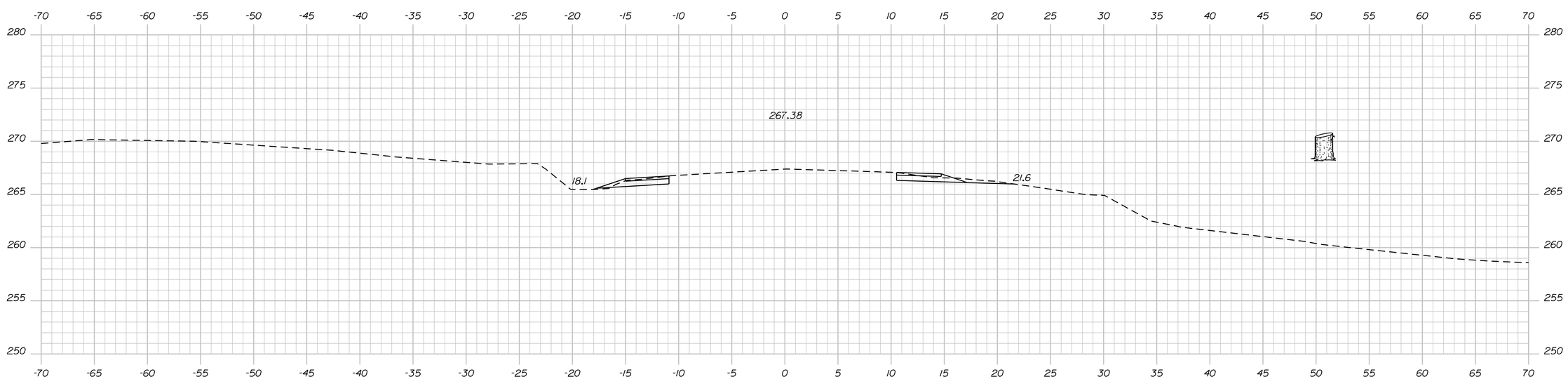
8

OF 11

Sta. 11+75.00 to Sta. 12+00.00

Filename: ...\00\HIGHWAY\MSTA\008_Xsect.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019184.00

WIN 019184.00

PROJ. MANAGER	D. Coombs	BY	DATE
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DATE

STARKS
ROUTE 43

CROSS SECTIONS

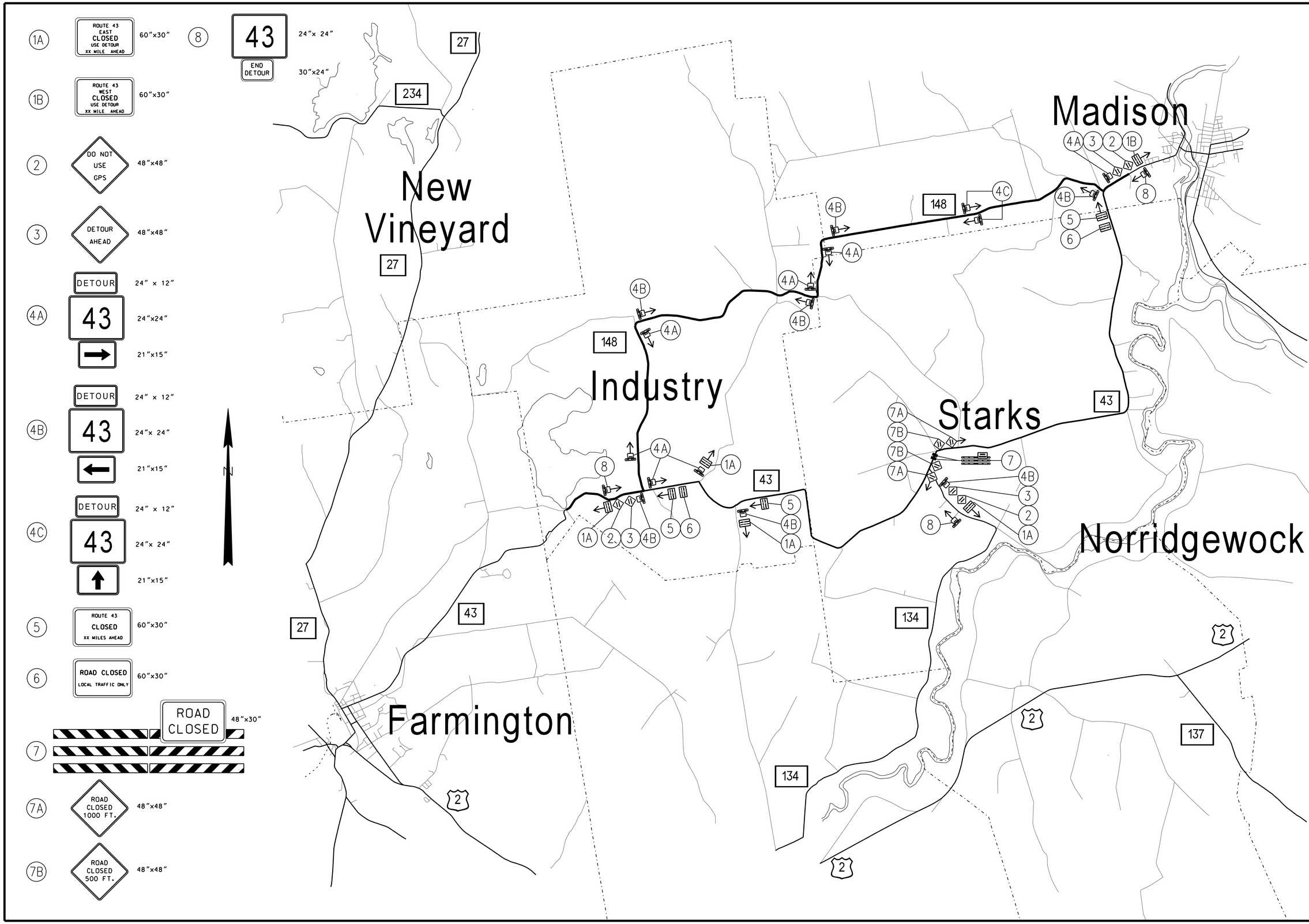
SHEET NUMBER

9

OF 11

Sta. 12+25.00 to Sta. 12+50.00

Filename: ...\00\HIGHWAY\MSTA\009_Xsect.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

19184.00

PIN
19184.00

HIGHWAY PLANS

PROJ. MANAGER	D. Coombs	BY	DATE
DESIGN-DETAILED	T. Adams		
CHECKED-REVIEWED	S. Kelly		
DESIGN2-DETAILED2	J. Wallace		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

STARKS
ROUTE 43

DETOUR PLAN

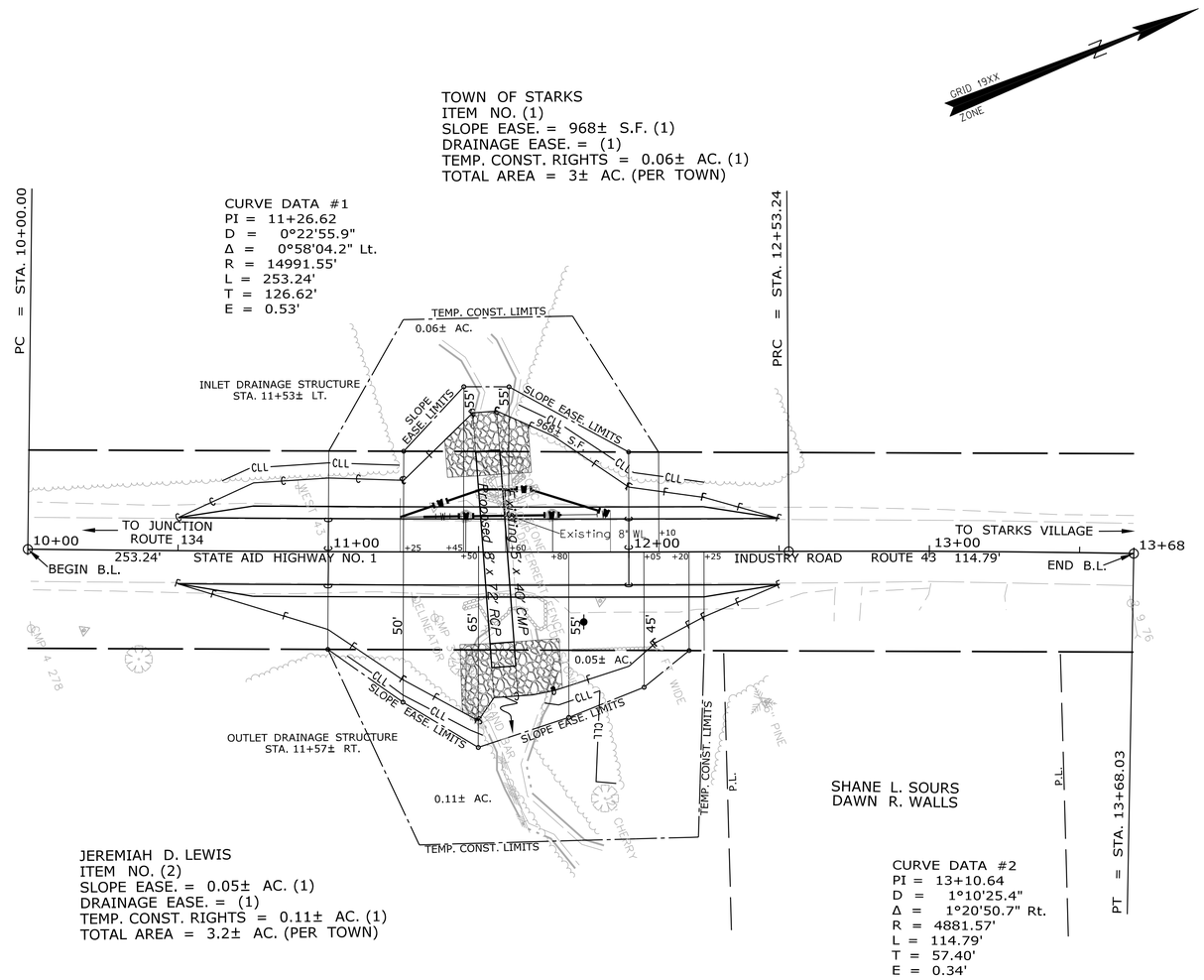
SHEET NUMBER

10

OF 11

Filename: ...\MSTA\010_DetourPlan.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015

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 RESOURCES

SOMERSET COUNTY
VOL. 3 PAGE 55
1842, 4 RODS WIDE

WIN 19184.00

SYMBOLS

- IP or ● IPF (IRON PIPE or PIN FOUND)
- ☐ S.T. (SEPTIC TANK)
- ⊡ (ROW MONUMENT)
- ABM (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE
- 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

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
STARKS
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE AID HIGHWAY NO. 1
INDUSTRY ROAD ROUTE 43
STARKS SOMERSET COUNTY
STATE PROJECT NO. 19184.00

FEBRUARY 2014 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 13-XXX
SCALE 1" = 25' | SHEET 1 OF 1

SHEET NUMBER
11
OF 11

Filename: ...\HIGHWAY\MSTA\011_RWPLAN1.dgn Division: HIGHWAY Username: Shane.C.Kelly Date:2/3/2015