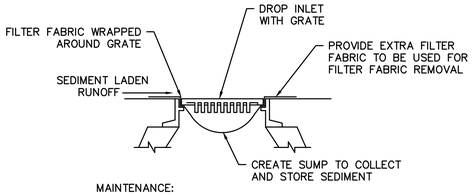
TOWN OF MONTAGUE
MONTAGUE CITY ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	29
PROJECT FILE NO.	607239		

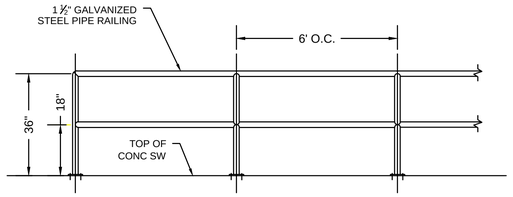
CONSTRUCTION DETAILS



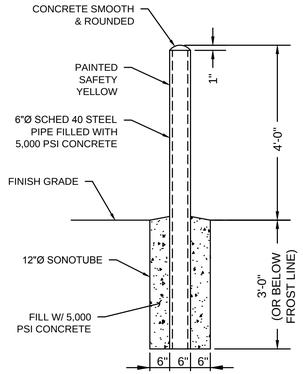
MAINTENANCE:

1. CONTRACTOR TO CLEAN AFTER EVERY STORM. IF THE SILT SACK BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PASSES FILTERED WATER, THE SEDIMENT SHALL BE REMOVED AND THE BARRIER SHALL BE REPLACED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
2. THE SILT SACK SHALL BE REMOVED WHEN THE DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED.

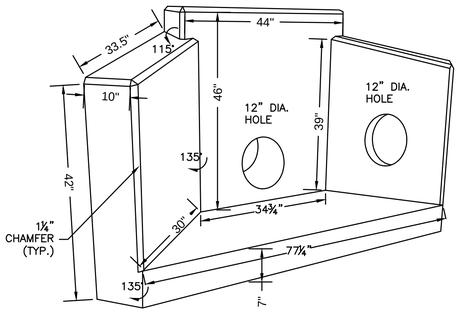
CATCH BASIN SILT SACK DETAIL
NOT TO SCALE

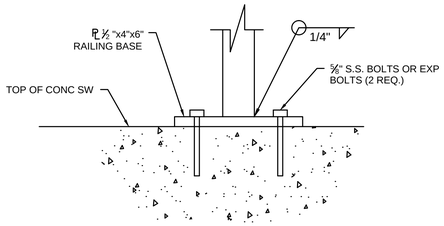


METAL PIPE RAIL
NOT TO SCALE

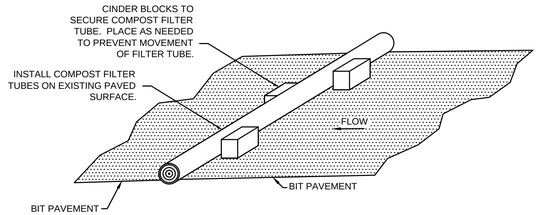


STEEL BOLLARD
NOT TO SCALE

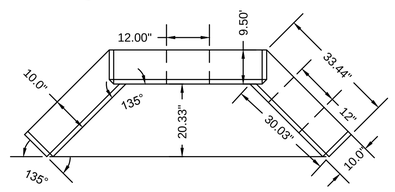


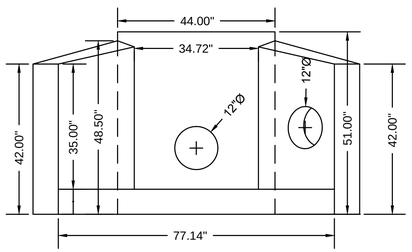


RAIL MOUNTING PLATE DETAIL
NOT TO SCALE



COMPOST FILTER TUBE ON PAVED SURFACE
NOT TO SCALE

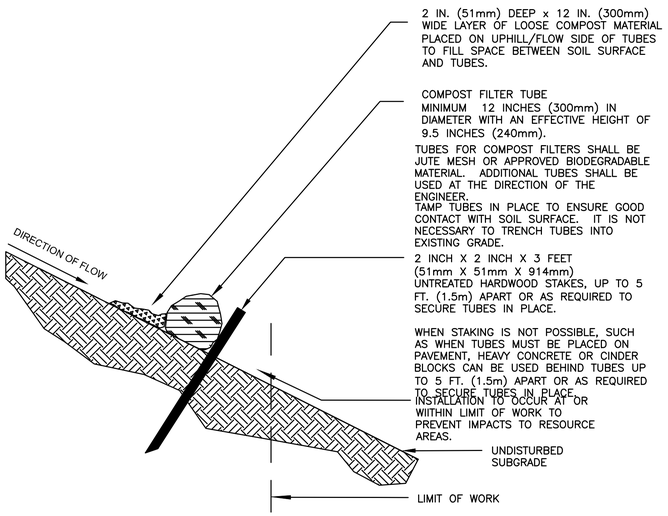


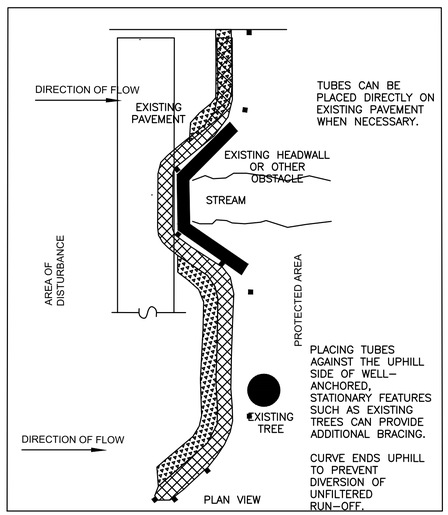


DESIGN NOTES:

1. CONCRETE – 5000 PSI, 28 DAYS
2. MANUFACTURED TO LATEST ASTM C–478 SPECIFICATIONS
3. REINFORCEMENT –
   FLOOR SLAB – 0.18 SQ IN EACH WAY
   WALL SECTIONS – 0.18 SQ IN PER LINEAR FT
4. PIPE OPENING AS REQUIRED

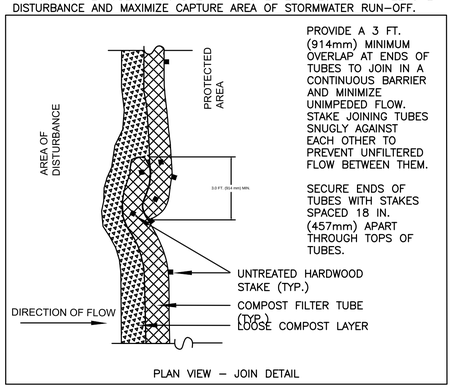
HEADWALL 34 DETAILS
NOT TO SCALE





GENERAL NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN–OFF.



SINGLE COMPOST FILTER TUBE DETAIL
NOT TO SCALE

607239_HD(DESIGN-PLANS).DWG 19-Nov-2014

TOWN OF MONTAGUE
MONTAGUE CITY ROAD

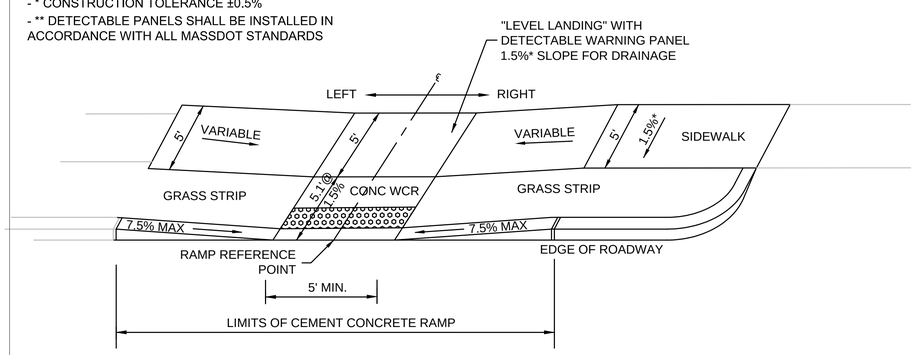
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	29
PROJECT FILE NO.		607239	

WCR DETAILS-1

19-Nov-2014

607239_HD(WCR-DETAILS).DWG

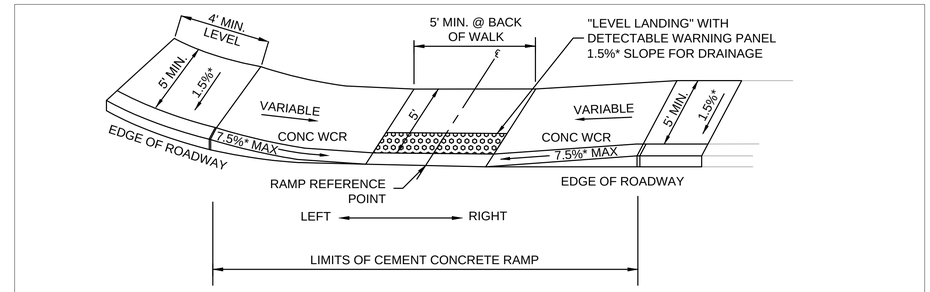
NOTES:
- * CONSTRUCTION TOLERANCE ±0.5%
- ** DETECTABLE PANELS SHALL BE INSTALLED IN ACCORDANCE WITH ALL MASSDOT STANDARDS



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 1	15+02.70	19.35' LT	10.1' ±	5.00'	5.00'	5.00'	0.50% ±	6.88'	6.00'

WHEELCHAIR RAMP 1

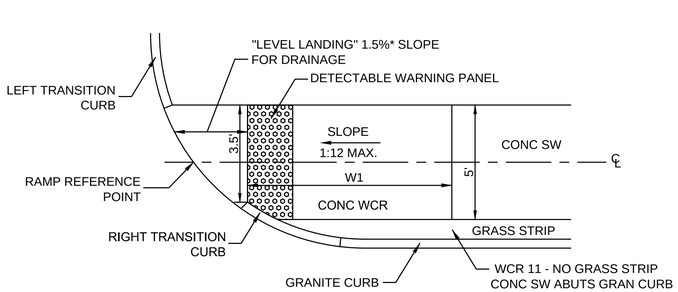
NOT TO SCALE



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 2	15+02.70	18.30' RT	5.50'	5.00'	5.00'	5.00'	0.50% ±	6.88'	6.00'
WCR 3 OPPOSITE	15+23.59	31.41' RT	5.9' ±	5.00' MIN.	5.00'	5.5'	-2.00% ±	9.10'	6.00'

WHEELCHAIR RAMPS 2 & 3

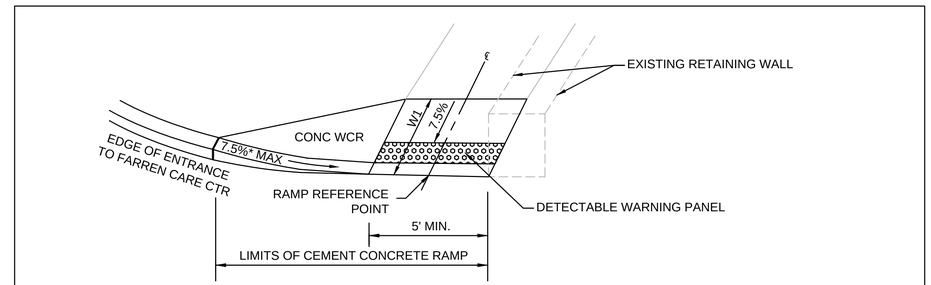
NOT TO SCALE



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP	DEPTH OF LEVEL LANDING	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 4	15+55.81	30.85' RT	7.13'	5.00'	3.50'	1.90'	+2.0% ±	9.10'	6.00'
WCR 5	17+84.29	23.13' RT	7.13'	5.00'	3.50'	2.79'	-2.0% ±	9.10'	6.00'
WCR 6	18+19.18	23.13 RT	6.00'	5.00'	3.50'	2.30'	+2.0% ±	6.00'	9.10'
WCR 11	21+82.03	26.35' RT	7.13'	5.00'	3.50'	3.74'	-2.0% ±	9.10'	6.00'
WCR 12	22+18.82	28.26' RT	6.00'	5.00'	3.50'	2.87'	+2.0% ±	6.00'	9.10'

WHEELCHAIR RAMPS 4, 5, 6, 11 & 12

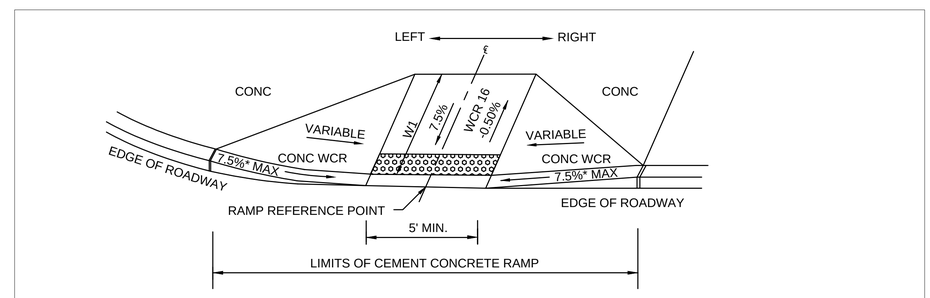
NOT TO SCALE



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 7	18+97.28	33.46' LT	7.13'	5.00'	5.00'	SIDEWALK IS LEVEL LANDING	+2.10% ±	9.10'	6.00'
WCR 8 OPPOSITE	19+28.37	33.33' LT	6.00'	5.00'	5.00'	SIDEWALK IS LEVEL LANDING	-2.10% ±	6.00'	9.10'

WHEELCHAIR RAMPS 7 & 8

NOT TO SCALE



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 9	19+46.19	18.00' LT	8.33'	5.00'	5.00'	8.65'	-0.50% ±	7.14'	6.25'

WHEELCHAIR RAMP 9

NOT TO SCALE

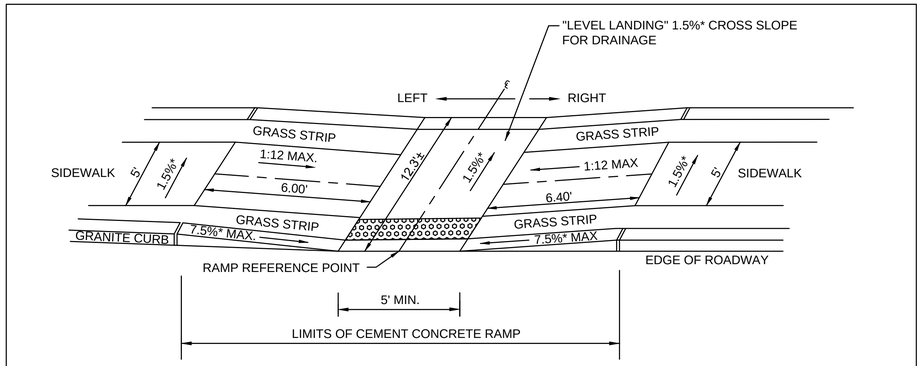
TOWN OF MONTAGUE
MONTAGUE CITY ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	29
PROJECT FILE NO.		607239	

WCR DETAILS-2

19-Nov-2014

607239_HD(WCR-DETAILS).DWG



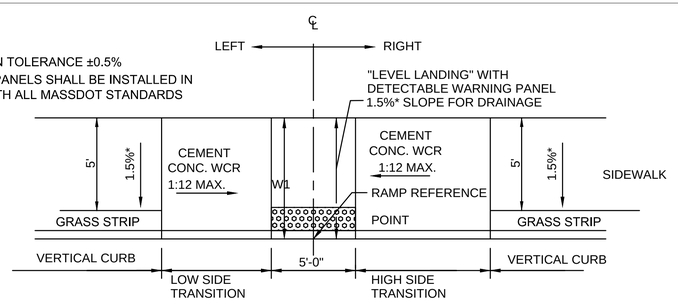
WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 10	19+45.65	18.15' RT	12.30'	5.00'	5.00'	12.30'	-0.50% ±	7.14'	6.25'

WHEELCHAIR RAMP 10

NOT TO SCALE

NOTES:

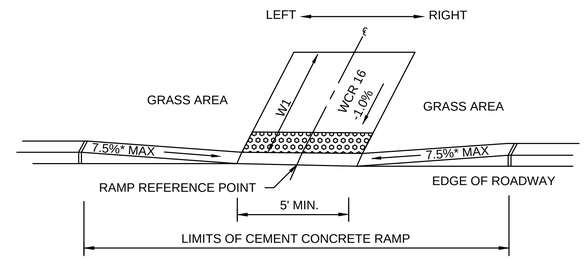
- * CONSTRUCTION TOLERANCE ±0.5%
- ** DETECTABLE PANELS SHALL BE INSTALLED IN ACCORDANCE WITH ALL MASSDOT STANDARDS



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 13	23+51.46	24.80' RT	6.50'	5.00'	5.00'	6.50'	-0.50% ±	7.14'	6.25'

WHEELCHAIR RAMP 13

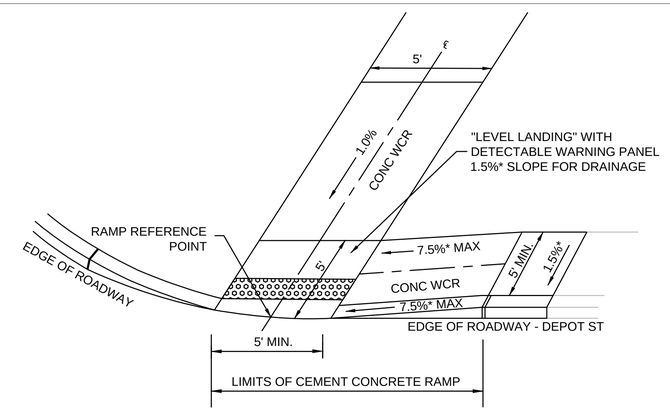
NOT TO SCALE



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 14	23+50.80	25.46' LT	8.33'	5.00'	5.00'	5.00'	-0.50% ±	7.14'	6.25'

WHEELCHAIR RAMP 14

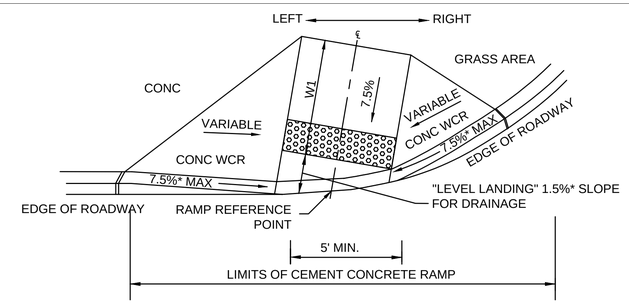
NOT TO SCALE



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 15	23+72.50	37.08' LT	6.70' ±	5.00'	5.00'	5.00'	@ CREST OF CURVE: 0%	6.70'	6.70'

WHEELCHAIR RAMP 15

NOT TO SCALE



WCR #	RAMP REFERENCE POINT		LENGTH OF PRIMARY RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF RAMP MIN. 5'	DEPTH OF LEVEL LANDING MIN. 4'	ROADWAY GUTTER SLOPE	TRANSITION LENGTH	
	STATION	OFFSET						LEFT	RIGHT
WCR 16	24+06.37	31.41' LT	8.33'	5.00'	5.00'	SIDEWALK IS LEVEL LANDING	@ CREST OF CURVE: 0%	6.70'	6.70'

WHEELCHAIR RAMP 16

NOT TO SCALE

TOWN OF MONTAGUE
MONTAGUE CITY ROAD

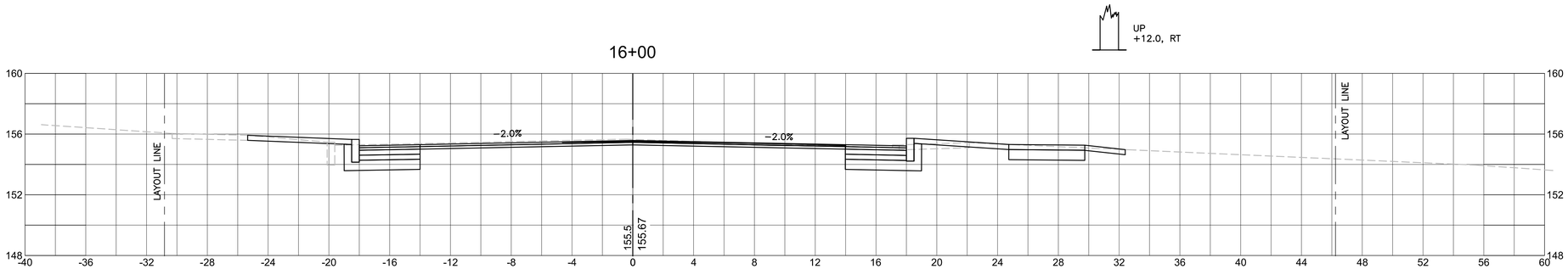
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	29
PROJECT FILE NO.	607239		

CROSS SECTIONS - 1

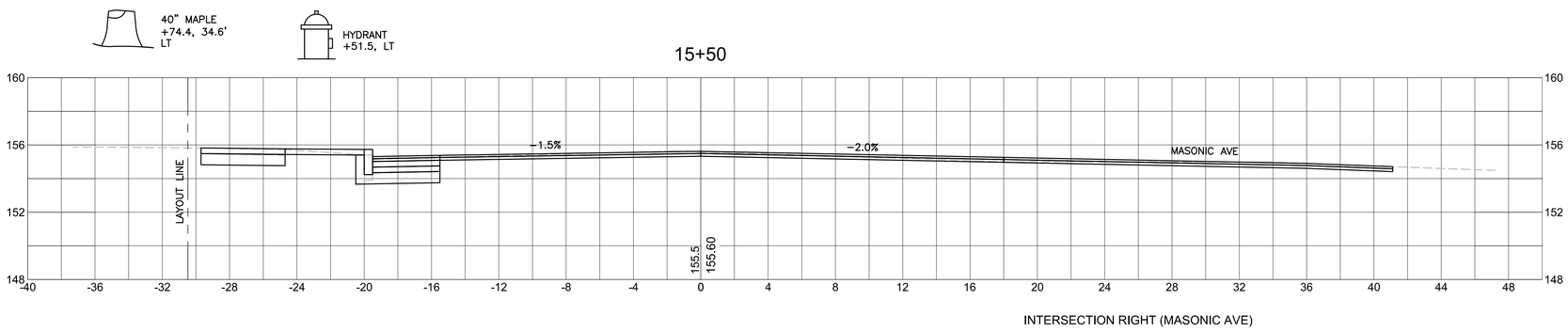
19-Nov-2014

607239_HD(CROSS-SECTIONS).DWG

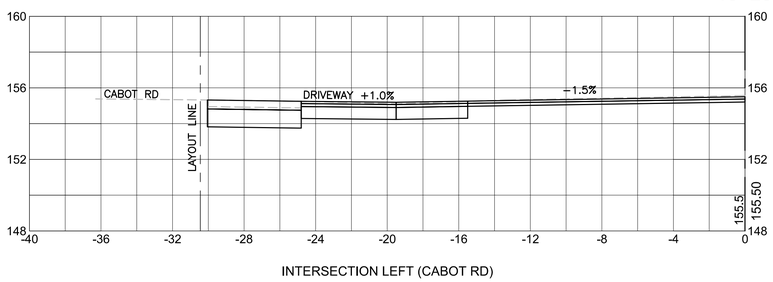
16+00



15+50



15+25



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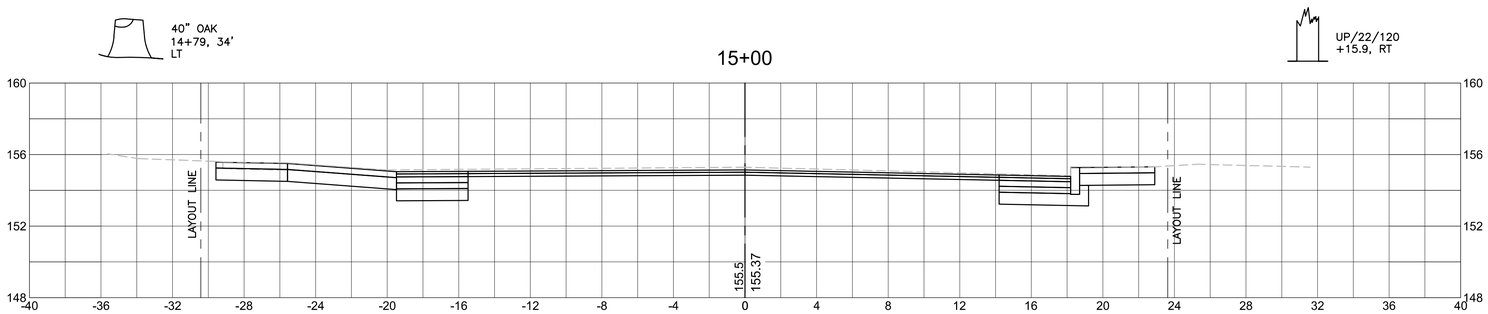
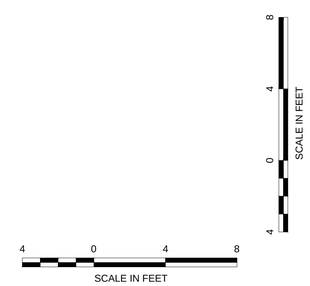


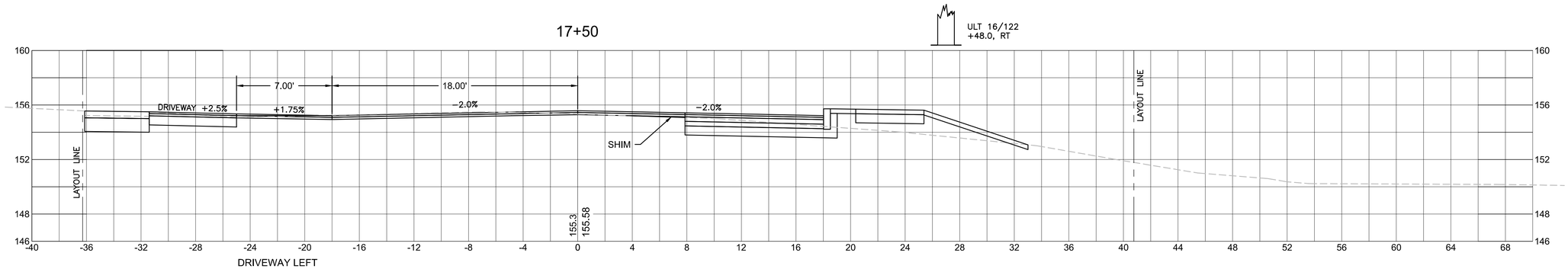


TOWN OF MONTAGUE
MONTAGUE CITY ROAD

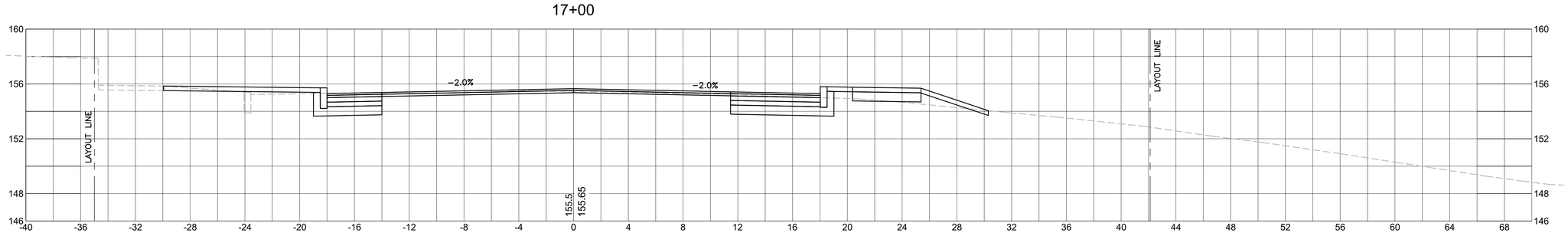
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	24	29
PROJECT FILE NO.	607239		

CROSS SECTIONS - 2

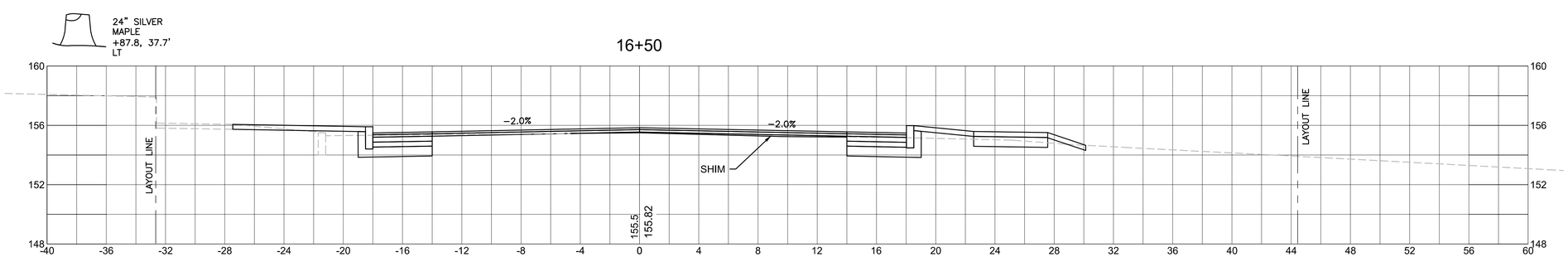
17+50



17+00



16+50



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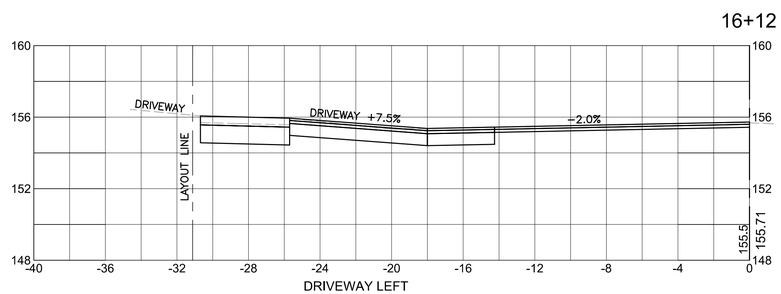
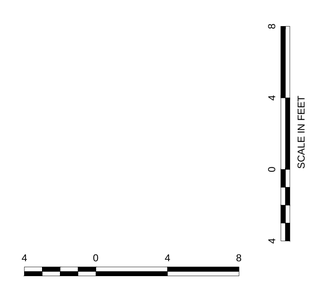




607239_HD(CROSS-SECTIONS).DWG 19-Nov-2014

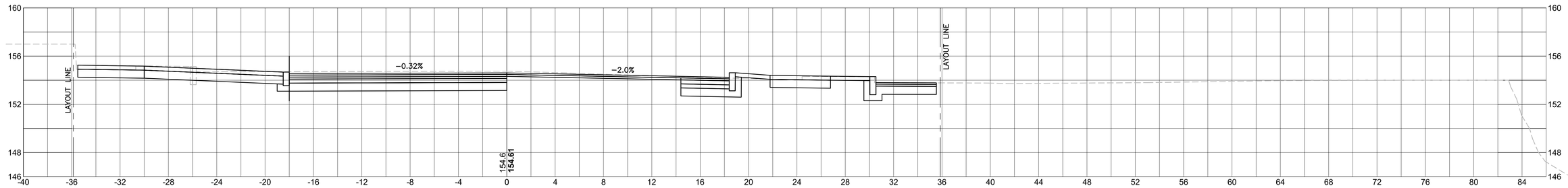
TOWN OF MONTAGUE
MONTAGUE CITY ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	29
PROJECT FILE NO.	607239		

CROSS SECTIONS - 3

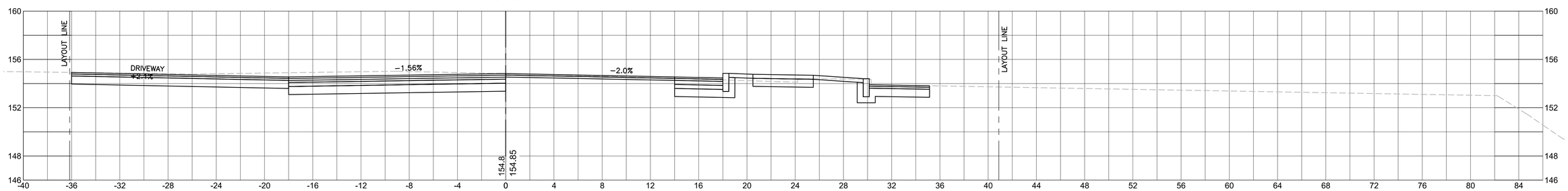
SUPERELEVATION
LEVEL
CROWN
19+62

19+50



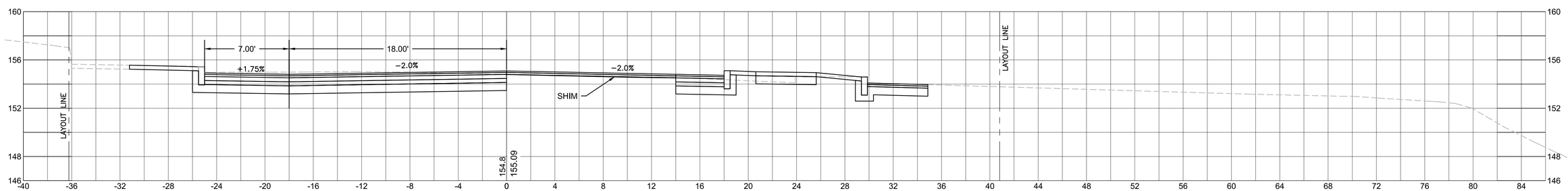
ULT
138/17/123
+01.4, RT

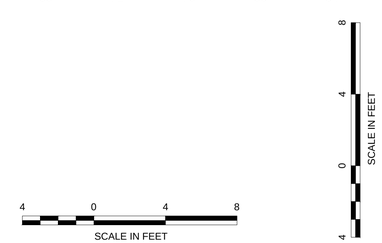
19+00



SUPERELEVATION
END
NORMAL
CROWN
18+89

18+50





607239_HD(CROSS-SECTIONS).DWG 3-Oct-2014

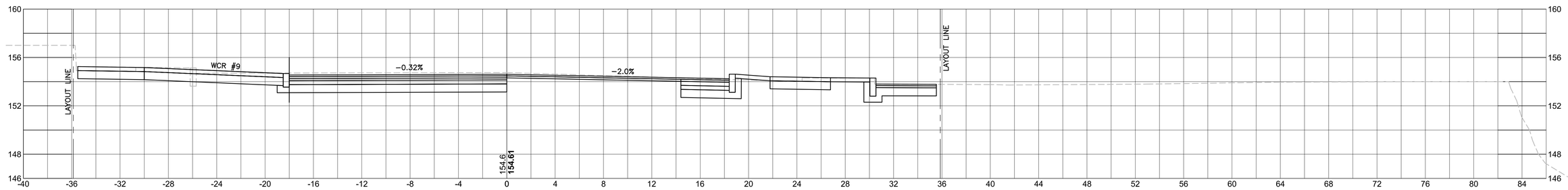
TOWN OF MONTAGUE
MONTAGUE CITY ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	29
PROJECT FILE NO.	607239		

CROSS SECTIONS - 3

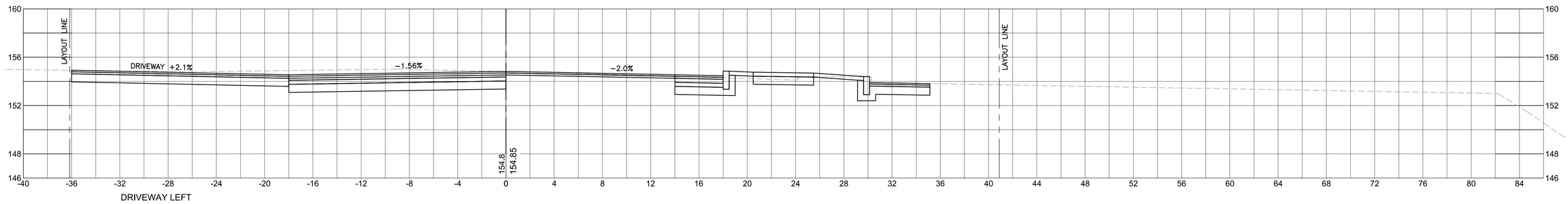
SUPERELEVATION LEVEL
CROWN 19+62

19+50



ULT
138/17/123
+01.4, RT

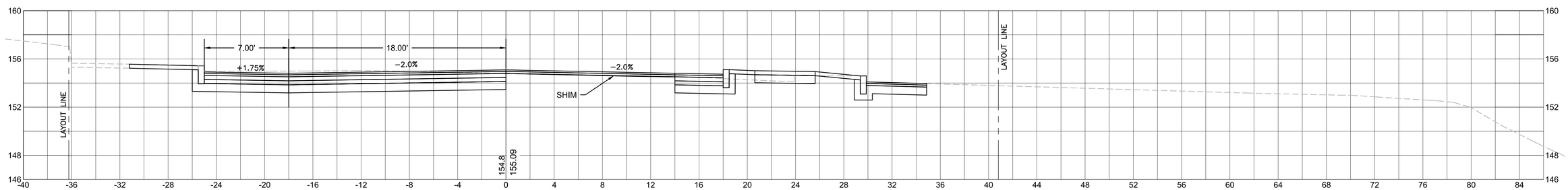
19+00



DRIVEWAY LEFT

SUPERELEVATION END NORMAL CROWN 18+89

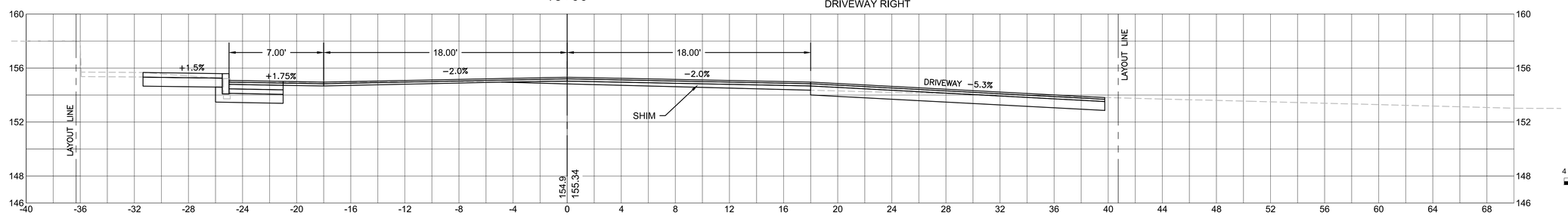
18+50

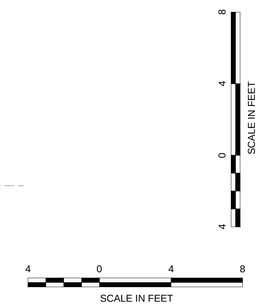


HYDRANT
+17.0, LT

18+00

DRIVEWAY RIGHT





607239_HD(CROSS-SECTIONS).DWG 19-Nov-2014

TOWN OF MONTAGUE
MONTAGUE CITY ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	29
PROJECT FILE NO.	607239		

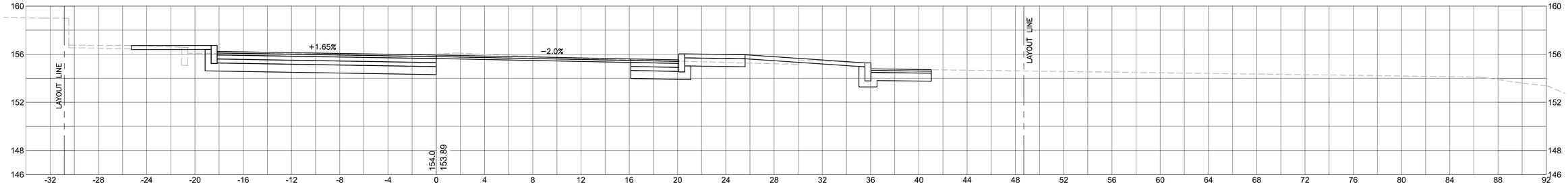
CROSS SECTIONS - 4

19-Nov-2014

607239_HD(CROSS-SECTIONS).DWG

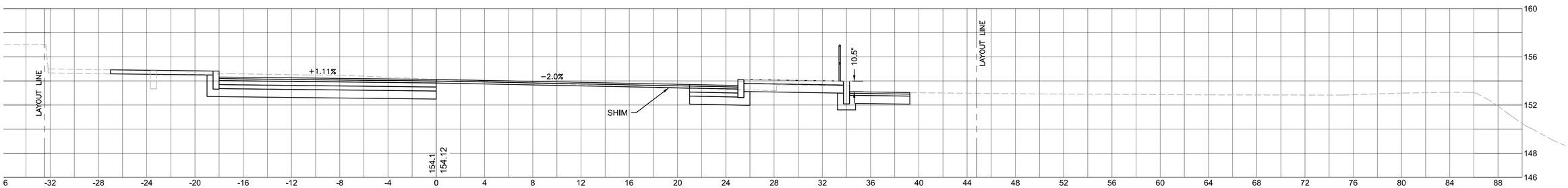
SUPERELEVATION BEGIN
FULL SUPER 21+45

21+00

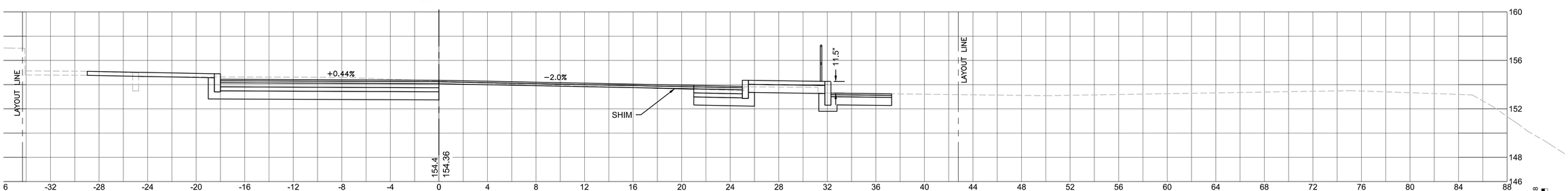


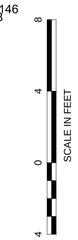
ULT 18/124
+46.6, RT

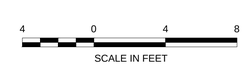
20+50



20+00







TOWN OF MONTAGUE
MONTAGUE CITY ROAD

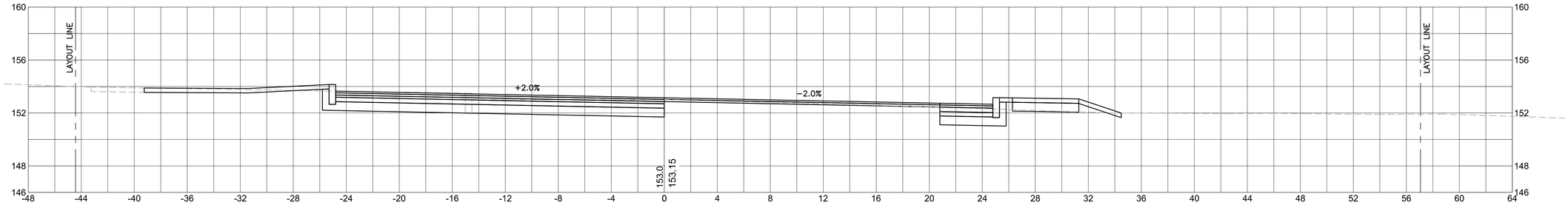
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	29
PROJECT FILE NO.	607239		

CROSS SECTIONS - 5

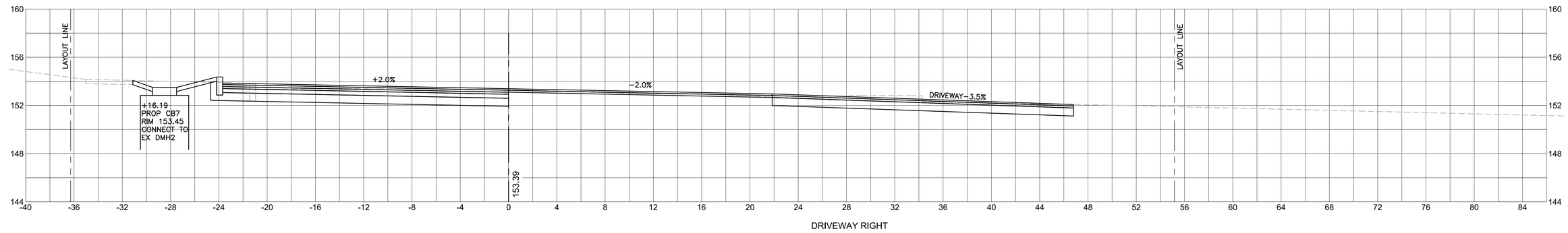
19-Nov-2014

607239_HD(CROSS-SECTIONS).DWG

22+50

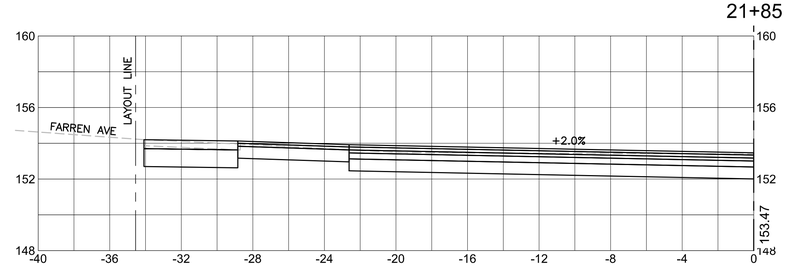


22+00

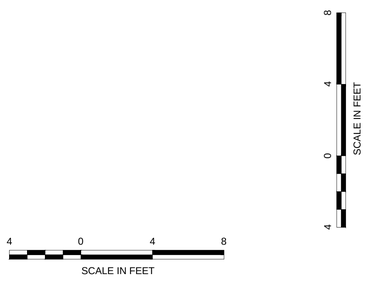


DRIVEWAY RIGHT

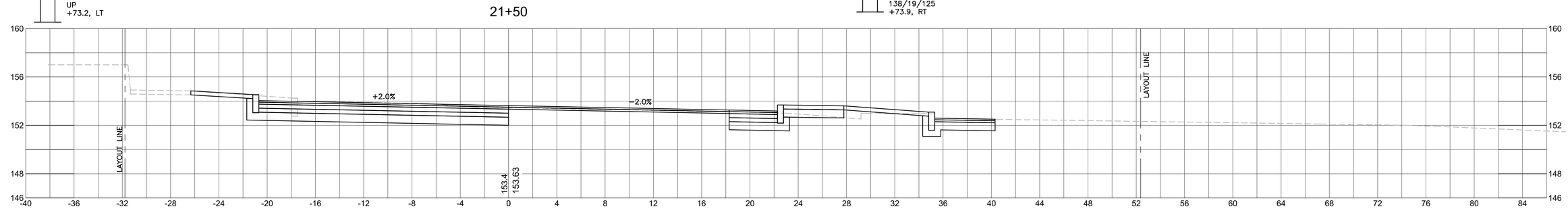
21+85



INTERSECTION LEFT (FARREN AVE)



21+50



TOWN OF MONTAGUE
MONTAGUE CITY ROAD

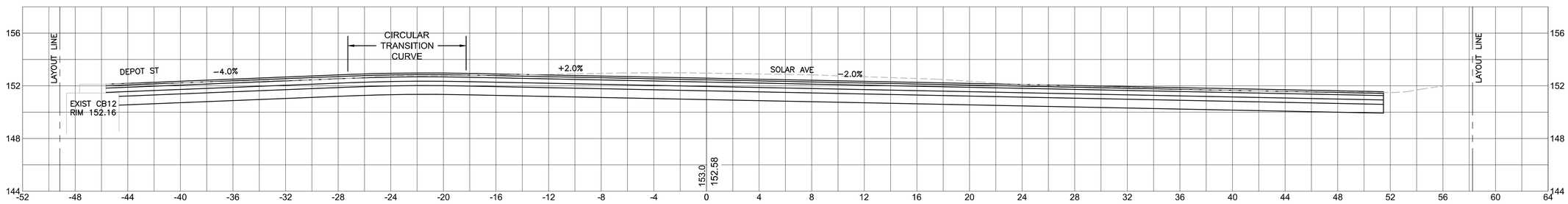
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	29
PROJECT FILE NO.	607239		

CROSS SECTIONS - 6

19-Nov-2014

607239_HD(CROSS-SECTIONS).DWG

24+00

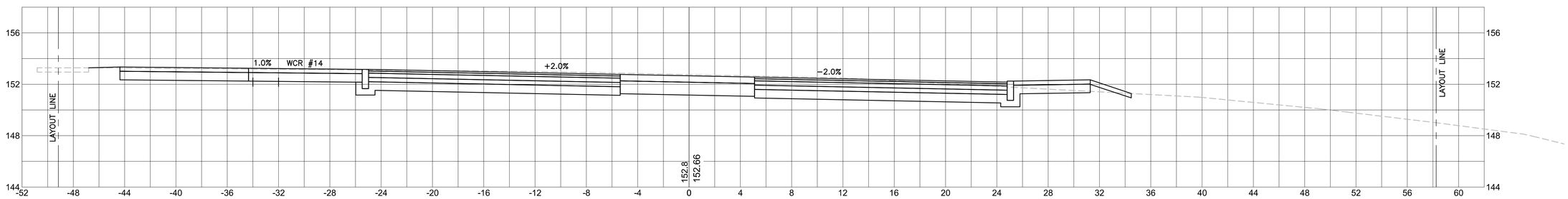


INTERSECTION LEFT (DEPOT ST)

INTERSECTION RIGHT (SOLAR AVE)

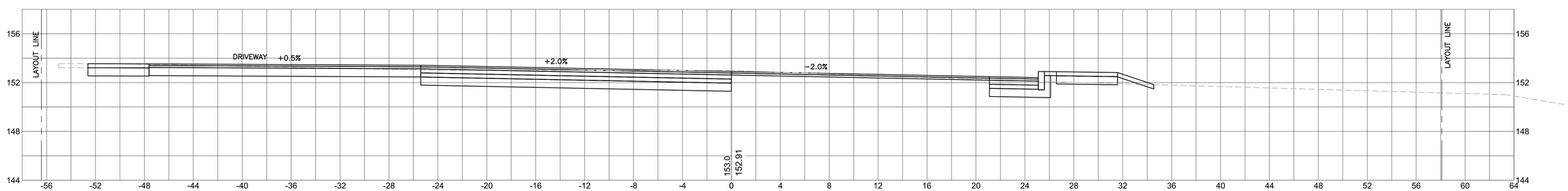
UP 138/20
+86.3, RT

23+50



HYDRANT
+25.5, LT

23+00



DRIVEWAY LEFT

4 0 4 8
SCALE IN FEET

8 4 0 4
SCALE IN FEET

TOWN OF MONTAGUE
MONTAGUE CITY ROAD

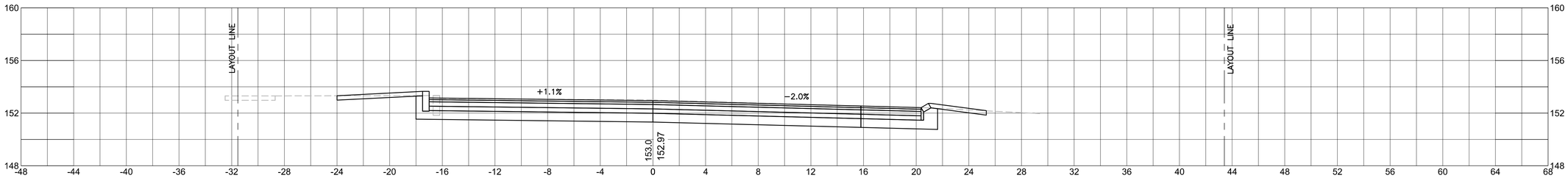
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	29
PROJECT FILE NO.	607239		

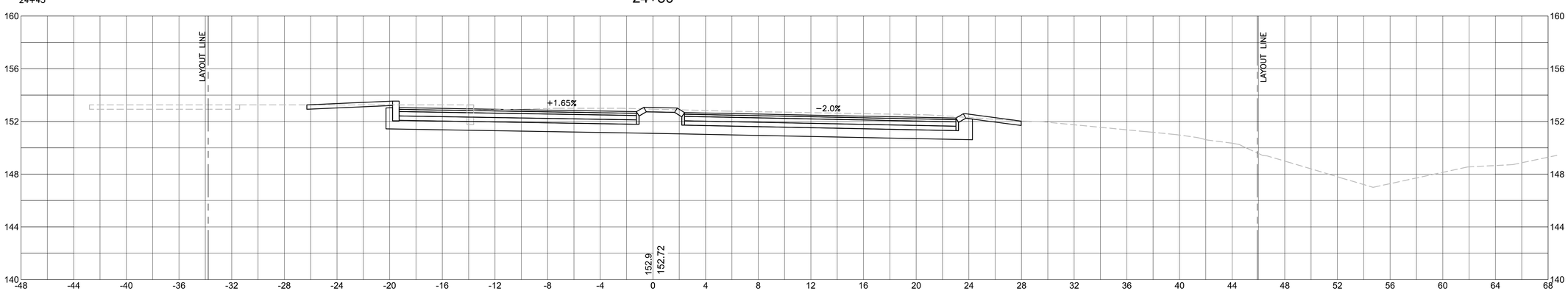
CROSS SECTIONS - 7

19-Nov-2014

607239_HD(CROSS-SECTIONS).DWG

25+00



SUPERELEVATION
END FULL
SUPER
24+45

24+50