

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION



BANGOR

PENOBSCOT COUNTY

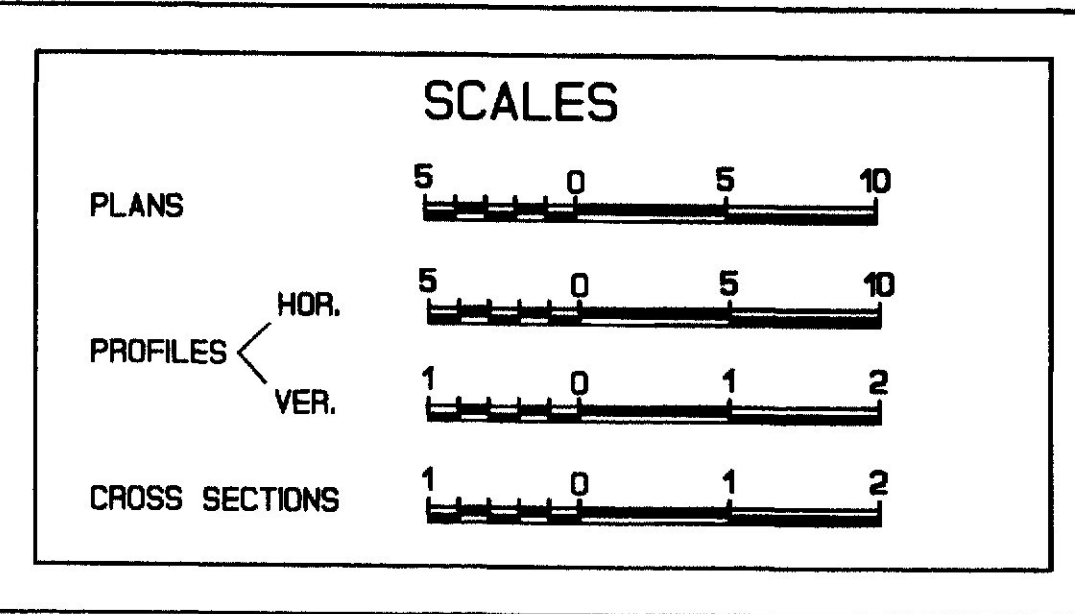
I-95 STILLWATER AVE. INTERCHANGE

PROJECT NO. IR-1-IM-HP-95-8(155)

PROJECT LENGTH: 2.1 km

FULL CONSTRUCTION

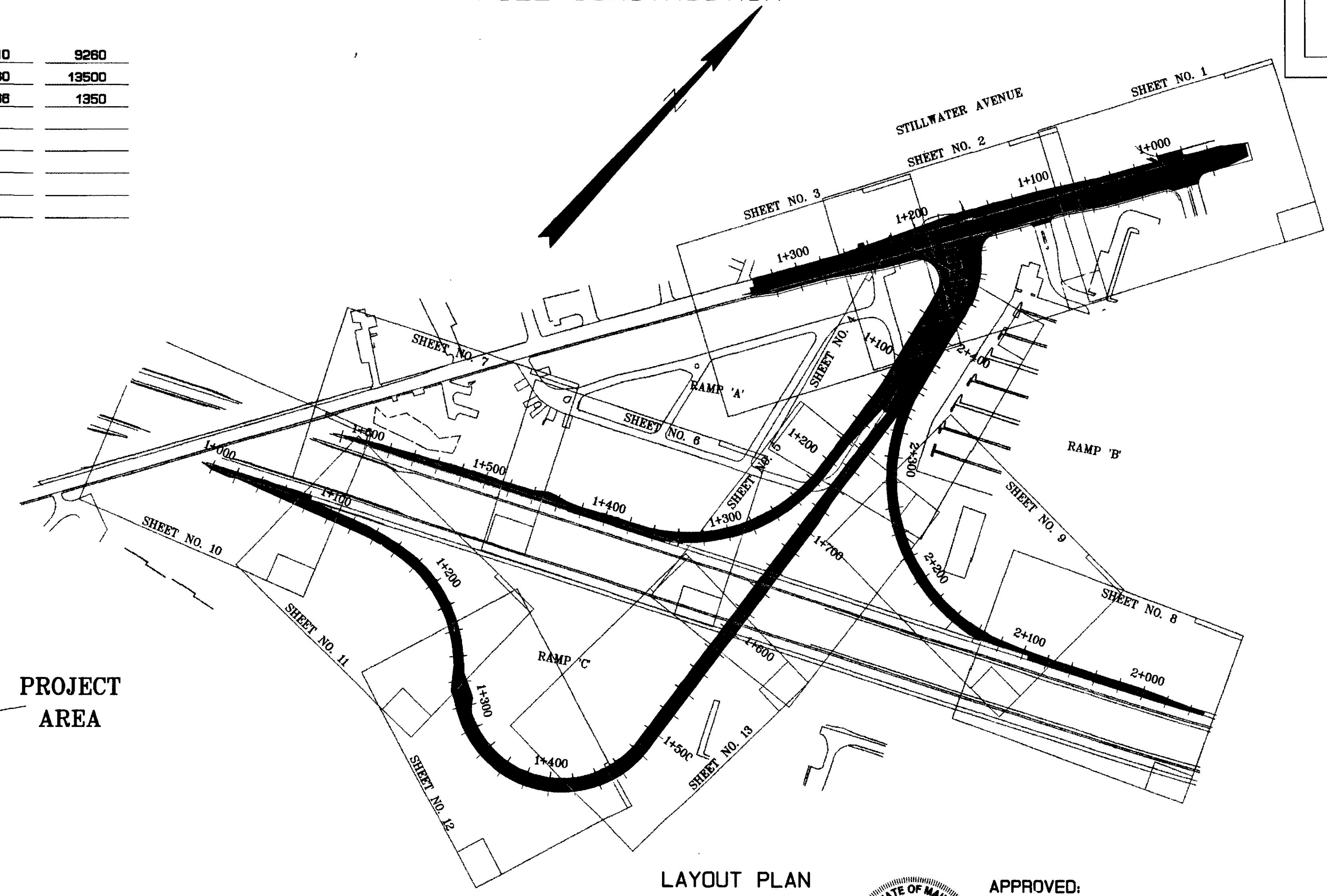
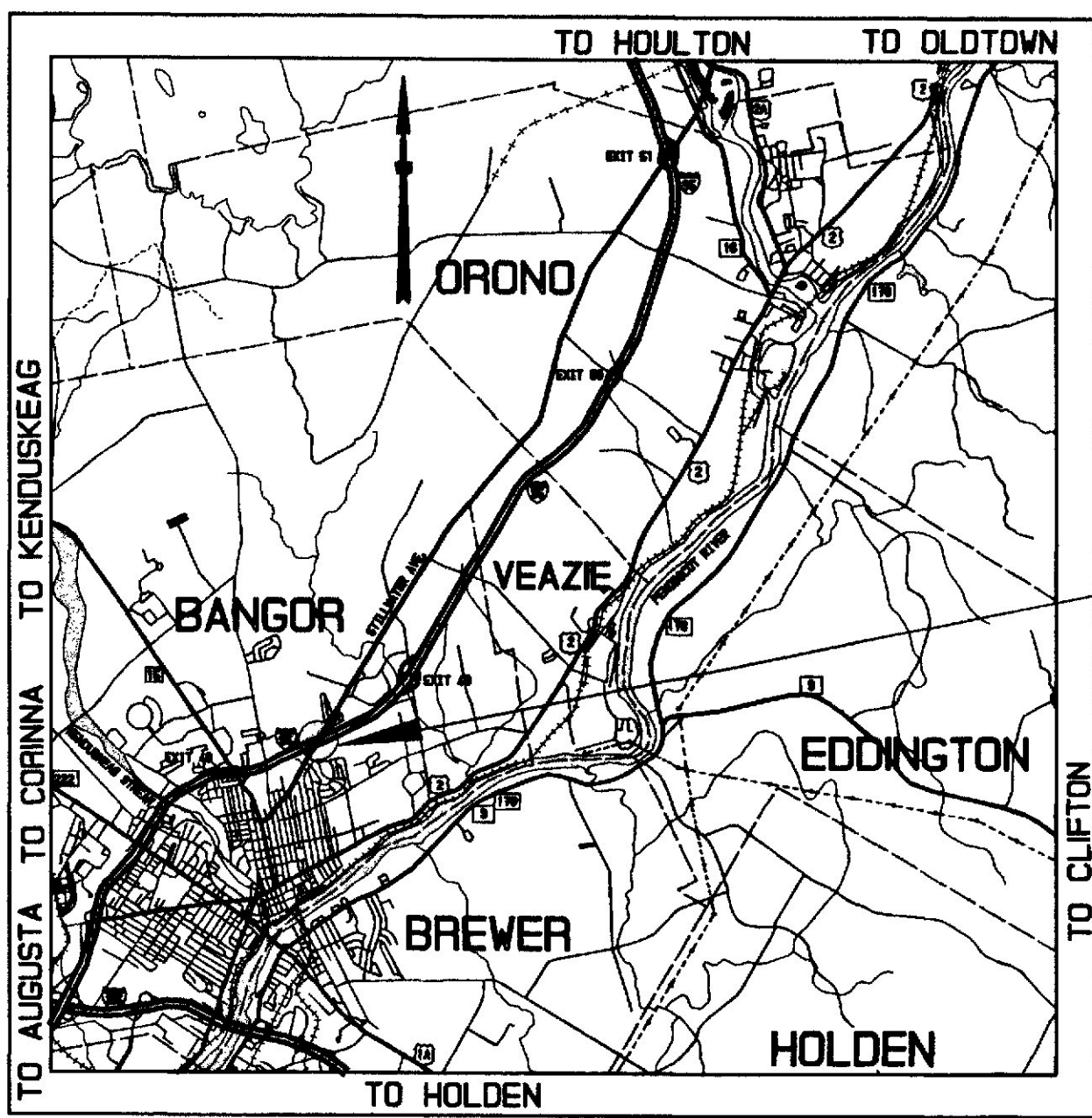
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PLAN LEGEND

COUNTY LINES	TRAVELWAY-EXISTING
TOWN LINES	TRAVELWAY-PROPOSED
PROPERTY LINES	RAILROAD
R/W LINES-EXISTING	OUTLINE OF BODIES OF WATER
R/W LINES-NEW-ACCESS-CONTROL	CATCH BASINS
R/W LINES-NEW-NO ACCESS-CONTROL	MANHOLES
R/W LINES-NEW WITHIN EXISTING R/W	UTILITY POLES
R/W LINES-EXISTING WITHIN NEW R/W	UTILITY POLES-JOINT OCCUPANCY
CULVERT-EXISTING	PROPOSED UTILITY POLE-Temporary
CULVERT-PROPOSED	FENCE (LABEL TYPE)
CURBING-EXISTING	TREES
CURBING-PROPOSED	WOODS
FIRE HYDRANTS	

	STILLWATER AVE. ( NORTH OF INTERCHANGE )	STILLWATER AVE. ( SOUTH OF INTERCHANGE )	RAMP A	RAMP B	RAMP C
A.A.D.T. 2005	36270	20080	9300	1810	9260
A.A.D.T. 2025	49150	28300	12210	2680	13500
D.H.V.	4915	2630	1221	268	1350
T.(% D.H.V.)	Z	1			
D.(% D.H.V.)	N/A	N/A			
V.	35 mph	35 mph			
P.S.D.(%)	N/A	N/A			
80 kN	316	171			



FF 27

PROJECT DESIGN ENGINEER	ANDY M.	DATE	1995
DESIGN-DETAILED	N. POLLEY	2000	
CHECKED	R. WATSON	2000	
REVISIONS	J. VELLEUX	3/00	
FIELD CHANGES			

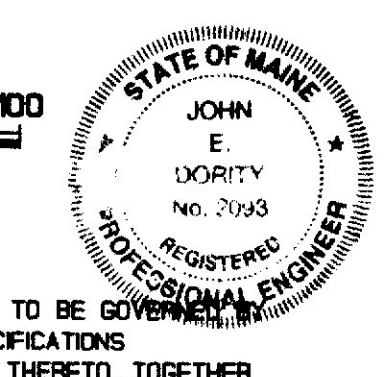
A PORTION OF PENOBSCOT COUNTY

SCALE IN KILOMETERS

LAYOUT PLAN

50 0 50 100

NOTE: ALL WORK CONTEMPLATED UNDER THIS CONTRACT TO BE GOVERNED BY THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION APRIL 1995, AND SUPPLEMENTALS THERETO, TOGETHER WITH THE STANDARD DETAILS (REVISION APRIL 1997) AND SUPPLEMENTALS THERETO, AS MODIFIED BY THE PLANS OR SPECIFICATION SPECIAL PROVISIONS.



APPROVED:

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

COMMISSIONER: *John E. Doherty*  
CHIEF ENGINEER

DATE: 04/06/00

UNITED STATES  
DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

REGION 1

APPROVED:

DIVISION ADMINISTRATOR: \_\_\_\_\_ DATE: \_\_\_\_\_



Date: 07 APR 2000  
Username: Jeff Veilleux

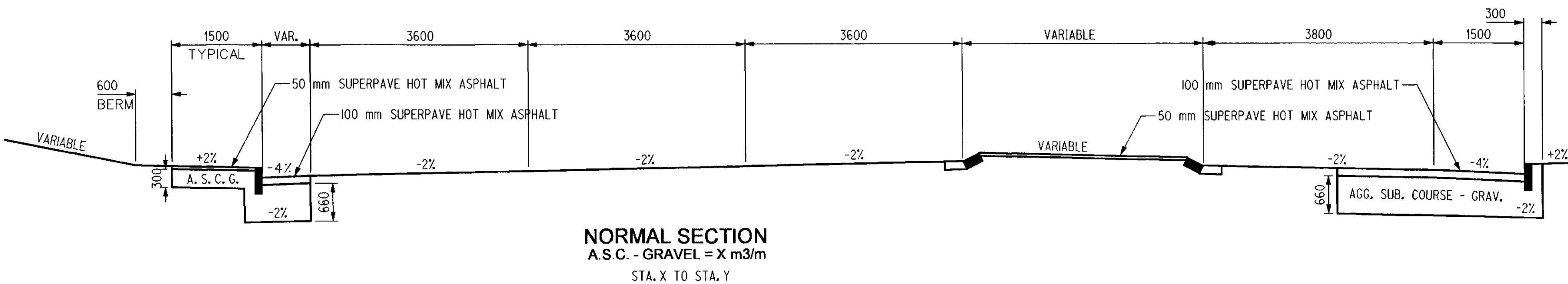
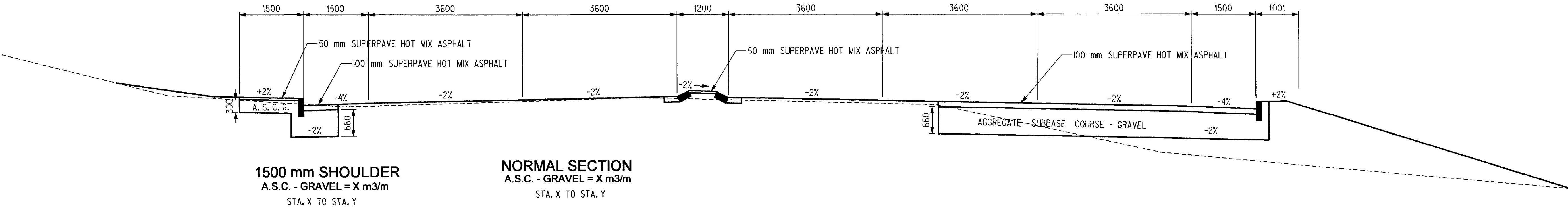
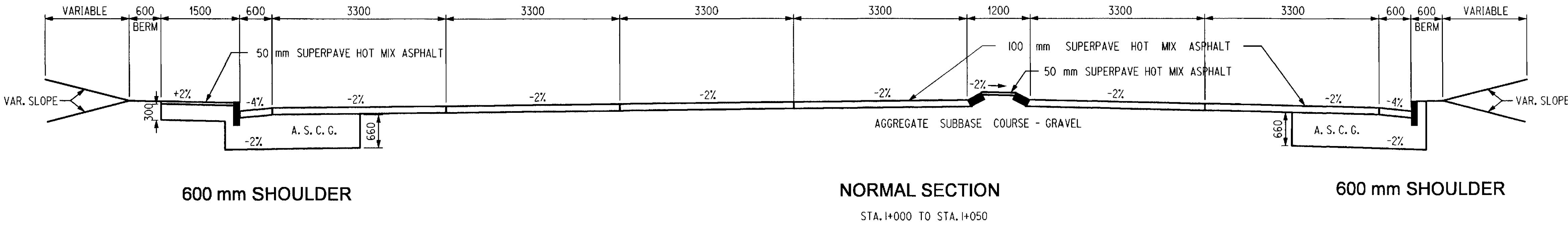
Filename: ...\\002\_typical\_001.dgn Division: HIGHWAY

STILLWATER AVE.

METRIC 1. All dimensions are in millimeters unless otherwise noted.  
2. All elevations and stations are in meters.

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-IM-95-8155180	2	140

PIN 004926.00



- Notes :
- 1. : Curb type 5 (L.t. & Rt.)
  - 3. : Curb type 1

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BANGOR  
TYPICAL SECTIONS  
STILLWATER AVE.

SHEET 1 OF 3

NOT TO SCALE  
AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	B. WATSON	3/00
CHECKED	J. VELLEUX	3/00
REVISIONS		
FIELD CHANGES		

PLANS



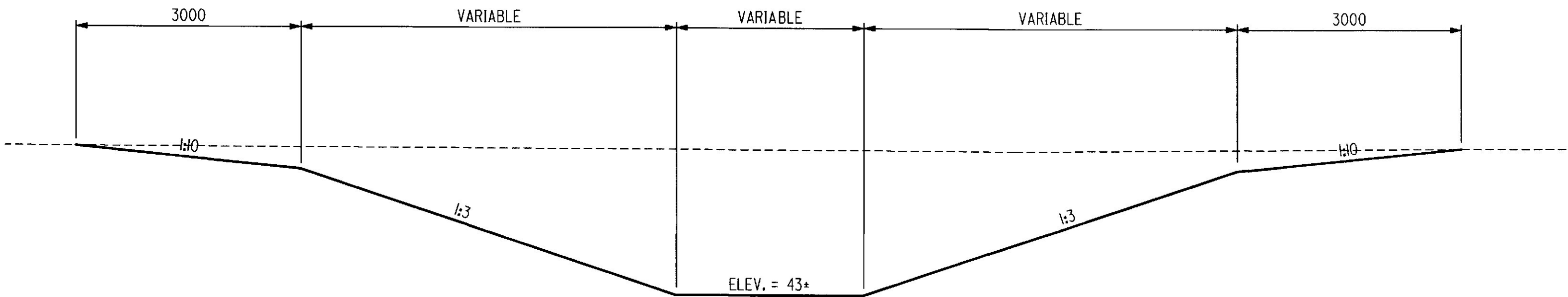
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Username: Jeff Velleux  
Date: 07 APR 2000

PROJECT DESIGN ENGINEER <b>PLANS</b>	DESIGN-DETAILED	BY	DATE
	CHECKED	B. WATSON	3/00
	REVISIONS	BT TRAN	4/00
	FIELD CHANGES		

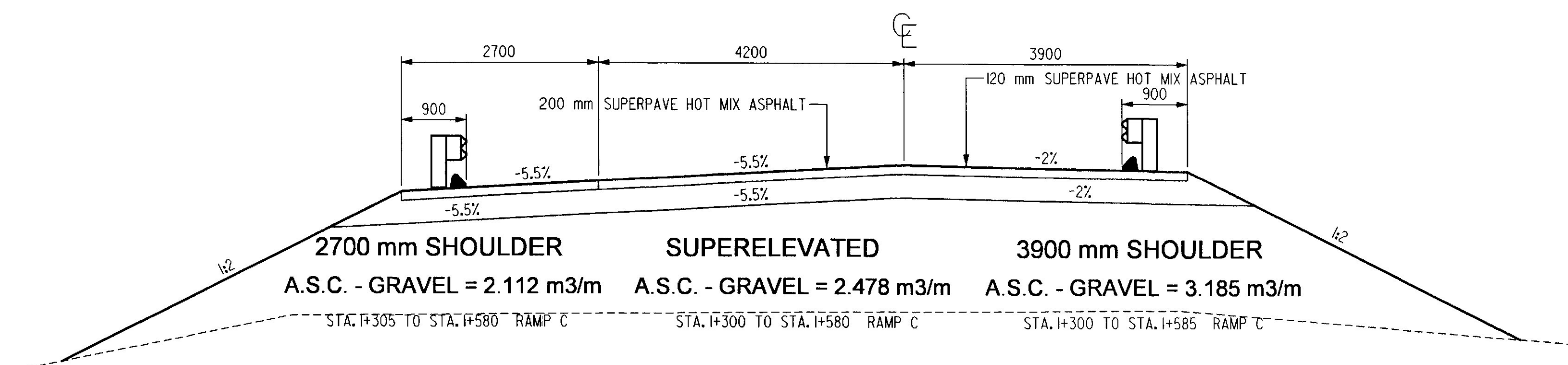
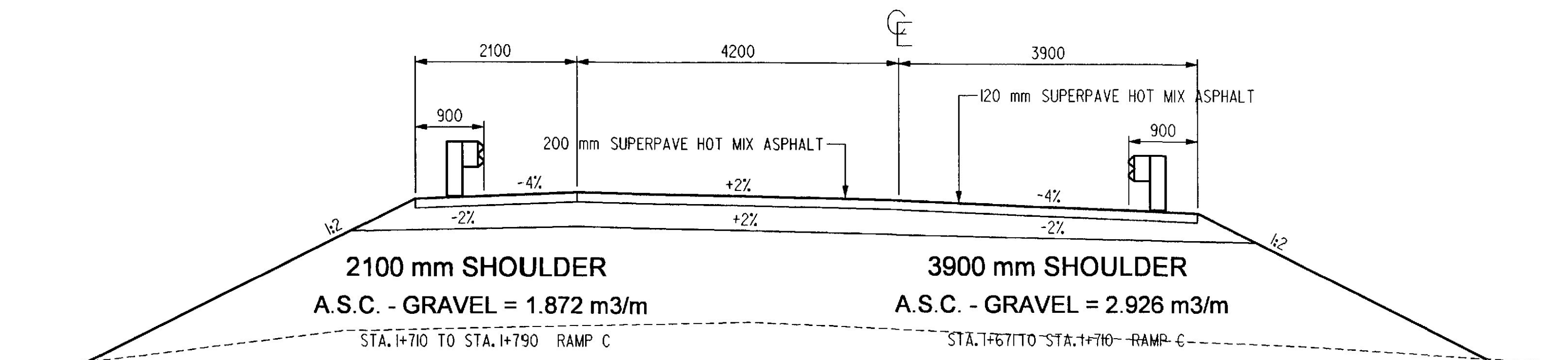
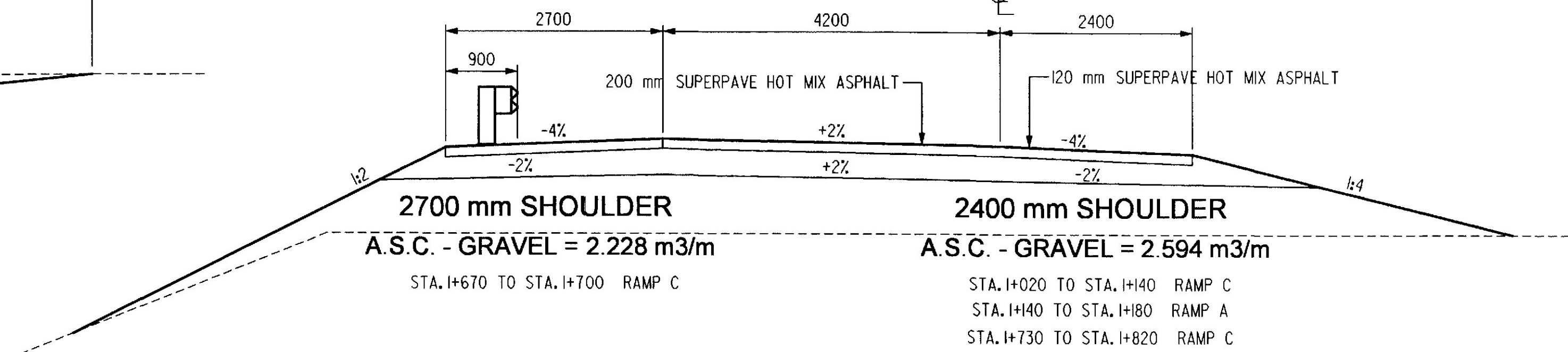
METRIC	1. All dimensions are in millimeters unless otherwise noted. 2. All elevations and stations are in meters.	F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
		1	MAINE	IR-1M-95-81551180	3	140


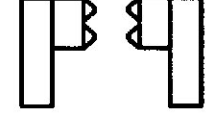
PIN 004926.00

Detention Pond Typical Section



RAMP C



- Notes :
- 1.  : Curb type 3, mold 2 (Lt. & Rt.)
  - 2.  : Guardrail (Lt. & Rt.)

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BANGOR  
TYPICAL SECTIONS  
STILLWATER AVE.

SHEET 2 OF 3 AUGUSTA, MAINE



Date:07 APR 2000

Username: Jeff Veilleux

Filename: ...\\004\_typical\_003.dgn Revision: HIGHWAY

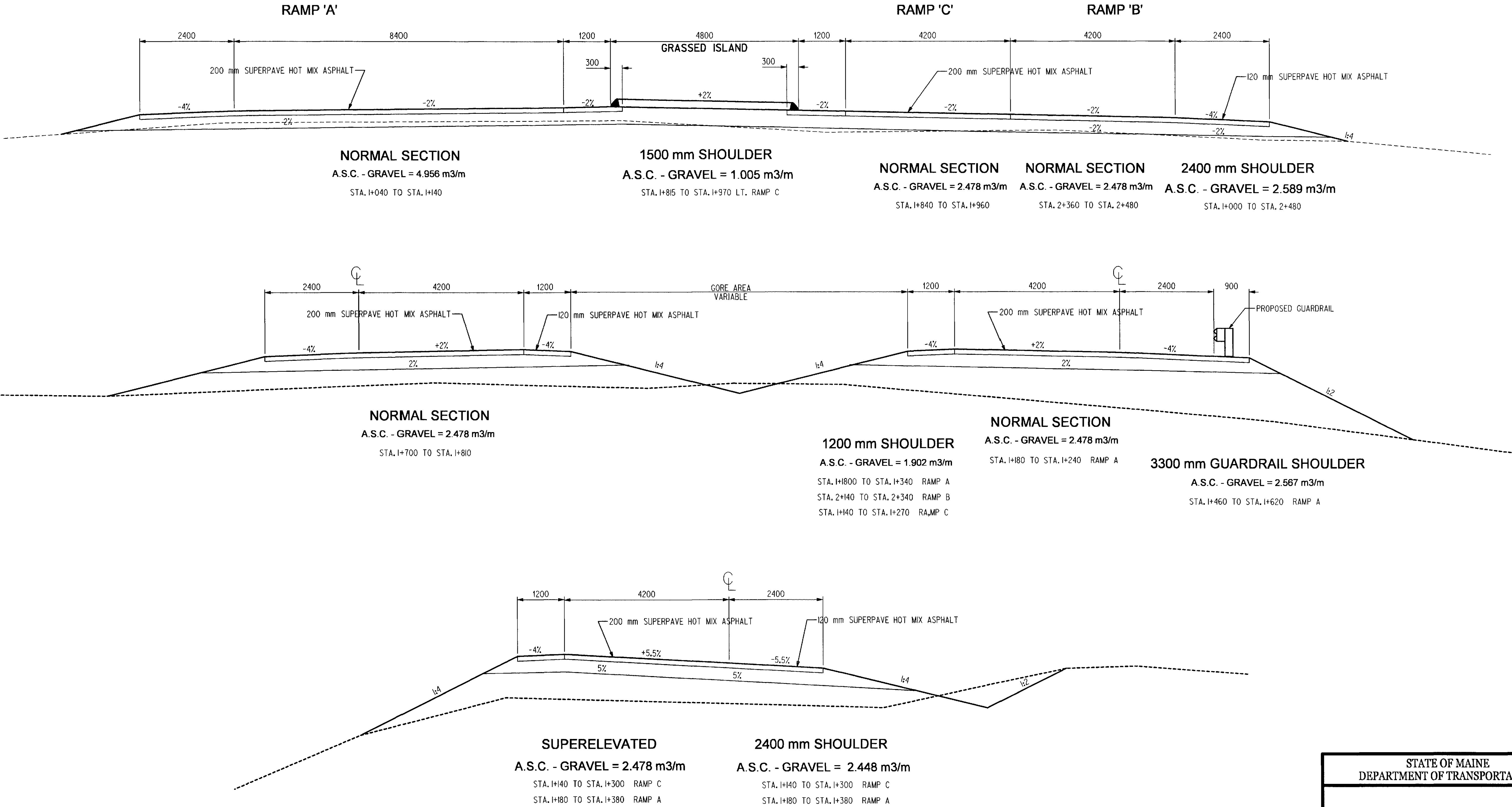
METRIC

1. All dimensions are in millimeters unless otherwise noted.  
2. All elevations and stations are in meters.

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-1M-95-B(155)180	4	140

PIN 004926.00

RAMP A, B, & C



PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	B. MATSON	3/00
CHECKED	J. VELLEUX	3/00
REVISIONS	BT TRAN	3/00
FIELD CHANGES		

PLANS

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BANGOR  
TYPICAL SECTIONS  
STILLWATER AVE.

SHEET 3 OF 3  
NOT TO SCALE  
AUGUSTA, MAINE



[illegible]

COMMON EXCAVATION (FROM CROSS SECTIONS)	16.919
GRUBBING IN FILL	1.031
TOTAL COMMON EXCAVATION	17.950

COMMON FILL (FROM CROSS SECTIONS)	46.007
GRUBBING IN FILL	<u>1.031</u>
TOTAL FILL	<u>47.038</u>

ROCK EXCAVATION (FROM CROSS SECTIONS)	3.532	
TOTAL ROCK EXCAVATION		3.532

TOTAL COMMON EXCAVATION	17,950	
TOTAL ROCK EXCAVATION	<u>3,532</u>	
TOTAL UNCLASSIFIED EXCAVATION		<u>21,482</u>

(1) TOTAL COMMON EXCAVATION		17,950
DEDUCTIONS:		
GRUBBING IN FILL	1,031	
(2) TOTAL DEDUCTIONS		1,031
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		16,919
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		
TOTAL AVAILABLE NON-ROCK EXCAVATION		16,919

TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)		
GRUBBING IN FILL	1,031	
TOTAL WASTE MATERIAL		1,031

GRANULAR BORROW TO REPLACE MUCK	_____	
GRANULAR BORROW IN LOW WET AREAS	_____	
GRANULAR BORROW TO UPGRADE EXCAVATION	_____	
GRANULAR BORROW TO MAINTAIN TRAFFIC	_____	
GRANULAR BORROW FOR UNDERCUTTING	_____	
GRANULAR BORROW =	0 x 1.15=	0

(3) TOTAL FILL 47.038

TOTAL AVAIL. NON-ROCK EXCAV.	16,919	x 0.85 =	14,381	
TOTAL AVAIL. ROCK EXCAV.	3,532	x 1.33 =	4,697	
TOTAL AVAIL. STR. ROCK EXCAV.		x 1.33 =	0	
AVAIL. WASTE MTRL. OR WASTE STG. AREA	0	x 1 =	0	
(4)TOTAL AVAILABLE EXCAVATION				19,079
TOTAL FILL MINUS TOTAL AVAILABLE EXCAV. (3) MINUS (4)				27,959
TOTAL SURPLUS MATERIAL (2) PLUS (4)				

GRANULAR BORROW IN LOW WET AREAS	0
GRANULAR BORROW TO UPGRADE EXCAVATION	0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0
TOTAL FILL MINUS REQUIRED GRAN. BORR. WITHIN FILL	27,959
COMMON BORROW =	$27,959 \times 1.15 =$
	32,153

PLANS	PROJECT DESIGN ENGINEER	BY	DATE
	DESIGN-DETAILED	B. WATSON J. VEILLEUX	4/00
	CHECKED		
	REVISIONS		
	FIELD CHANGES		



PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	BT TRAN	3/00
CHECKED		
REVISIONS		
FIELD CHANGES		

<b>METRIC</b>	1. All dimensions are in millimeters unless otherwise noted.	F.W./M.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	2. All elevations and stations are in meters.	1	MAINE	IR-24-95-0115D180	6	140

PIN 004926.00

[illegible]

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

*BANGOR*  
*STILLWATER AVE.*  
*RAMP A - RAMP B - RAMP C*  
*DRAINAGE*

SHEET | OF | AUGUSTA, MAINE



PROJECT DESIGN ENGINEER	DATE
DESIGN-DETAILED	3/00
CHECKED	
REVISIONS	
FIELD CHANGES	
PLANS	

GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS :

- Bangor Hydro-Electric Company
- BeAtlantic
- Adelphia Communications Corporation
- Bangor Gas
- Bangor Water District
- City of Bangor (Sewer Maintenance Department)
- City of Bangor (Electrical Department)

2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.

3. CLEARING LIMITS SHALL BE 5 m BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINE IN NON-GUARDRAIL FILL AREAS AND 3 m ELSEWHERE. SELECTIVE CLEARING AND THINNING LIMITS SHALL BE BETWEEN THE CLEARING LIMITS AND THE RIGHT OF WAY LINES, OR AS SHOWN ON THE PLANS.

4. WHEN SUBGRADE IS LESS THAN 0.5 m ABOVE OLD GROUND, THE GRUBBING WIDTH SHALL EXTEND TO THE SUBGRADE LIMITS, OR AS SHOWN ON THE CROSS SECTIONS. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 230 mm IN FIELD AREAS AND 380 mm IN WOODED AREAS.

5. ALL DITCH ELEVATIONS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISH DITCH FLOW LINE.

6. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY. ACTUAL TYPE AND LOCATION FOR STONE DITCH PROTECTION, AND RIPRAP SHALL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION MANAGER.

7. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL BE PAID FOR AS GRANULAR BORROW.

8. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 0.3 m ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

9. EXISTING INSLOPES STEEPER THAN 1:2 IN PROPOSED FILL AREAS SHALL BE BENCHED AS DIRECTED BY THE CONSTRUCTION MANAGER.

10. PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 50 mm SUPERPAVE HOT MIX ASPHALT - 9.5 mm NOM. MAX. SIZE (SIDEWALKS, ETC.) 300 mm AGGREGATE SUBBASE COURSE-GRAVEL.

11. UNPAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 350 mm AGGREGATE SUBBASE COURSE-GRAVEL.

12. A 1m PAVED LIP SHALL BE PLACED AT ALL GRAVEL ENTRANCES EXCEPT WOODS AND FIELD ENTRANCES, UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER.

13. ALL PAVED WALKS TO BE CONSTRUCTED WITH: 50 mm HOT BITUMINOUS PAVEMENT AND 300 mm AGGREGATE SUBBASE COURSE-GRAVEL.

14. PLACE SUPERPAVE HOT MIX ASPHALT 9.5 mm NOM. MAX. SIZE (SIDEWALKS, ETC.) AROUND CATCH BASINS IN GRASSED AREAS (1m OUTSIDE OF FRAME, 50 mm THICK) AND APPLY ACRYLIC LATEX COLOR FINISH - GREEN, AS DIRECTED BY THE CONSTRUCTION MANAGER.

15. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE CONSTRUCTION MANAGER. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).

16. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE CONSTRUCTION MANAGER.

17. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE CONSTRUCTION MANAGER.

18. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES, FOR COMPARIBLE CORRUGATED SIZES SEE THE DRAINAGE TABULATION.

19. ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 604.

20. ALL CONNECTIONS FOR UNDERDRAIN TO ROADWAY CULVERTS WILL BE INCIDENTAL TO U.D. PIPE ITEMS.

21. A 1m SQUARE RIPRAP PAD SHALL BE CONSTRUCTED AT U.D. OUTLETS.

22. REMOVAL OF ANY EXISTING CATCH BASIN OR MANHOLE IS TO BE INCIDENTAL TO ITEM 603.

23. EXISTING ABANDONED WATER MAINS BROKEN BY THE CONTRACTOR DURING CONSTRUCTION SHALL HAVE THE ENDS PLUGGED WITH BRICK AND MORTAR. COST FOR ALL LABOR AND MATERIAL WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO DIRECT PAYMENT WILL BE MADE.

24. TWO GUARDRAIL DELINEATOR POSTS WILL BE INSTALLED AT EACH LEADING GUARDRAIL END AND ONE AT EACH TRAILING END. A GUARDRAIL DELINEATOR POST WILL BE INSTALLED AT EACH UNDERDRAIN OUTLET.

25. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL WILL BE CONSIDERED INCIDENTAL TO ITEM 606.

26. GUARDRAIL 350 FLARED TERMINAL (ITEM NO. 606.79) SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

27. CURB TYPE 3 TO BE INSTALLED WITH MOLD 2 AND SEALED WITH BITUMINOUS SEALING-BLACK, WHEN DIRECTED.

28. ALL CATCH BASINS TYPE A-C PLACED ON CIRCULAR CURB TYPE 1 SHALL HAVE THE CURB INLET CUT THE SAME RADIUS AS ADJACENT CIRCULAR CURB. PAYMENT SHALL BE INCIDENTAL TO ITEM 604.072.

29. THE 1.2 m OR 2.1 m OF CIRCULAR CURB TYPE 1 REQUIRED TO BE CUT FOR A TERMINAL CURB SECTION SHALL BE PAID FOR UNDER ITEM 609.234 OR ITEM 609.237, RESPECTIVELY.

30. LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE CONSTRUCTION MANAGER.

31. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL FORESLOPES FROM THE EDGE OF SHOULDER TO THE DITCH LINE OR TOE OF FILL; SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL BACKSLOPES AND ON ALL GUARDRAIL FILL SLOPES.

32. MULCH SHALL BE APPLIED IN AREAS SEEDDED BY SEEDING METHOD NO. 1, SEEDING METHOD NO. 2 AND SEEDING METHOD NO. 3.

33. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 100 mm ON ALL LAWN AREAS AND 50 mm ELSEWHERE UNLESS OTHERWISE NOTED OR DIRECTED BY THE CONSTRUCTION MANAGER.

34. ACRYLIC LATEX COLOR FINISH - GREEN SHALL BE PLACED ON ALL PAVED ISLANDS.

35. ALL PEDESTRIAN RAMPS SHALL BE 1.8 m WIDE.

36. THE FILL SHOWN ON THE CROSS SECTIONS INCLUDES THE WASTE STORAGE.

37. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUBPART P OF 29 CFR PART 1926.650-.652 (CONSTRUCTION STANDARD FOR EXCAVATIONS).

38. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.

39. WHERE PAVEMENT UNDER THIS CONTRACT JOINS AN EXISTING PAVEMENT OR CONCRETE, THE EXISTING PAVEMENT OR CONCRETE SHALL BE SAW CUT ALONG A SMOOTH LINE TO A NEAT, EVEN, VERTICAL JOINT, AS DIRECTED BY THE CONSTRUCTION MANAGER. BROKEN OR RAVELED EDGES WILL NOT BE PERMITTED. ALL WORK NECESSARY FOR THE PREPARATION OF THIS JOINT WILL BE CONSIDERED INCIDENTAL TO THE RELATED CONTRACT ITEMS.

40. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

41. MDOT FOUND EVIDENCE OF PETROLEUM CONTAMINATED SOILS ON THE BANGOR STILLWATER PROJECT IN THE VICINITY OF THE NOW VACANT QUEEN CITY MOBILE HOME PARK THROUGH WHICH THE SOUTH BOUND ON-RAMP IS DESIGNED. THE CONTAMINATED SOIL WAS FOUND TO HAVE BEEN SPREAD UPON A CONCRETE PAD IN THE VICINITY OF STATION 1+269, SOUTHBOUND ON-RAMP. THE SOURCE OF THIS MATERIAL IS LIKELY FROM AN UNDERGROUND STORAGE TANK FOR FUEL OIL ASSOCIATED WITH ONE OR MORE OF THE NOW REMOVED MOBILE HOMES. THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION (MDEP) HAS APPROVED THE BENEFICIAL RE-USE OF THIS AND ANY SIMILARLY CONTAMINATED SOILS FOUND ON THE PROJECT AS FILL ANYWHERE ON THE PROJECT. AS A PRECAUTION, THE CONTRACTOR SHALL TAKE APPROPRIATE HEALTH AND SAFETY MEASURES TO PROTECT ITS WORKERS AND THE PUBLIC AGAINST HAZARDS ASSOCIATED WITH EXCAVATING AND WORKING IN PETROLEUM CONTAMINATED SOILS. IN THE EVENT THAT OTHER CONTAMINATED SOIL OR GROUND WATER IS ENCOUNTERED DURING EXCAVATION ON THIS PROJECT THE CONTRACTOR SHALL SECURE THE EXCAVATION AND IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER SHALL CONTACT THE MDEP AT 800-482-0777 AND THE HYDROGEOLOGIST IN AUGUSTA AT 207-287-8312. WORK MAY ONLY CONTINUE WITH AUTHORIZATION FROM THE ENGINEER. ADDITIONAL INFORMATION ON THE LOCATION AND CONCENTRATION OF THE CONTAMINATED SOIL IS AVAILABLE FROM MDOT-OES, AUGUSTA.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BANGOR  
STILLWATER AVE.  
RAMP A - RAMP B - RAMP C  
GENERAL NOTES

SHEET 1 OF 1  
AUGUSTA, MAINE



# CONSTRUCTION NOTES

TABLE OF SUPERELEVATIONS

STATION	RAMP 'A'		BASELINE
	LT (DROPISE)	SLOPE	
END OF RAMP 'A'			
1+629.116	MATCH	VAR.	MATCH
	TO		
1+557.022	84 mm	2%	0 mm
	TO		
1+400.000	84 mm	2%	0 mm
1+380.000	126 mm	3%	0 mm
1+360.000	176.4 mm	4.2%	0 mm
1+340.000	201.6 mm	4.8%	0 mm
1+320.000	231 mm	5.5%	0 mm
	TO		
1+240.000	231 mm	5.5%	0 mm
1+220.000	210 mm	5%	0 mm
1+200.000	126 mm	3%	0 mm
1+180.000	84 mm	2%	0 mm
	TO		
1+020.000	84 mm	2%	0 mm
	TO		
1+000.000	MATCH	VAR.	MATCH
BEGIN RAMP 'A'			

STATION	RAMP 'B'		SLOPE	BASELINE
	LT (DROPRISE)			
END OF RAMP 'B'				
2+490.717	MATCH		VAR.	MATCH
	TO			
2+480.000	84 mm		2%	0 mm
	TO			
2+400.000	84 mm		2%	0 mm
2+380.000	75.6 mm		1.8%	0 mm
2+360.000	50.4 mm		1.2%	0 mm
2+340.000	159.6 mm		3.8%	0 mm
2+320.000	252 mm		6%	0 mm
	TO			
2+140.000	252 mm		6%	0 mm
2+120.000	189 mm		4.5%	0 mm
2+100.000	165.4 mm		3.7%	0 mm
	TO			
2+080.000	165.4 mm		3.7%	0 mm
2+060.000	126 mm		3%	0 mm
	TO			
2+040.000	126 mm		3%	0 mm
2+020.000	84 mm		2%	0 mm
	TO			
1+948.542	MATCH		VAR.	MATCH
BEGIN RAMP 'B'				

STATION	RAMP 'C'		SLOPE	BASELINE
	LT (DROPRISE)			
END OF RAMP 'C'				
1+972.474	MATCH		VAR.	MATCH
	TO			
1+960.000	84 mm		2%	0 mm
	TO			
1+560.000	84 mm		2%	0 mm
1+540.000	42 mm		1%	0 mm
1+520.000	33.6 mm		-0.8%	0 mm
1+500.000	117.6 mm		-2.8%	0 mm
1+480.000	193.2 mm		-4.6%	0 mm
1+460.000	235.2 mm		-5.6%	0 mm
	TO			
1+320.000	235.2 mm		-5.6%	0 mm
1+300.000	159.6 mm		-3.8%	0 mm
1+280.000	31.2 mm		-1.3%	0 mm
1+260.000	31.2 mm		1.3%	0 mm
1+240.000	168 mm		4%	0 mm
1+220.000	247.8 mm		5.9%	0 mm
	TO			
1+180.000	247.8 mm		5.9%	0 mm
1+140.000	210 mm		5%	0 mm
1+120.000	126 mm		3%	0 mm
1+100.000	84 mm		2%	0 mm
1+080.000	126 mm		3%	0 mm
1+060.000	142.8 mm		3.4%	0 mm
1+040.000	155.4 mm		3.7%	0 mm
	TO			
1+000.000	MATCH		VAR.	MATCH
BEGIN RAMP 'C'				

Item No. 201.23 Removing Single Trees  
Sta 1+213 Stillwater Ave. 14m LT 300 mm Spruce  
Sta 1+151 Stillwater Ave. 12m LT 600 mm Willow  
Sta 2+247 Ramp B 1 m RT 650 mm Oak  
Sta 2+466 Ramp B 2.5m RT 300 mm Apple  
Sta 2+460 Ramp B 5 m RT 300 mm Apple  
Sta 2+446 Ramp B 6 m RT 300 mm Spruce

Item No. 201.24 Removing Stump  
See Item 201.23 Removing Single Trees  
Sta 1+171 Stillwater Ave. 13m RT

Item No. 202.08 Removing Building No. 1  
Sta 1+022 Ramp A 10m RT

Item No. 205.51 Widening of Existing Shoulder  
To be used at new sign locations GA-2 and GA-4  
to allow for installation of new guardrail.

Item 526.301 Temporary Concrete Barrier Type I  
To be used to block off interstate crossovers when  
they are not in use, and as directed by the Construction Manager.

Item 606.24 Guardrail Type 3D-Single Rail  
Sta 1+306 to 1+582 LT Ramp C  
Sta 1+291.6 to 1+585 RT Ramp C  
Sta 1+668.5 to 1+790.5 LT Ramp C  
Sta 1+672 to 1+710.1 LT Ramp C  
Sta 1+672 to 1+710.1 RT Ramp A

Sign Location 17 (I-95)  
Sign Location 19 (I-95)

Item 606.363 Guardrail Remove and Dispose  
Sta 0+993 RT to Sta 1+140 LT Ramp C  
Sta 1+527 RT to Sta 1+627 RT Ramp A

Item 609.11 Vertical Curb Type I  
Stillwater Avenue  
Sta 0+951.2 9.5m RT to 0+977.663 13.309m RT  
1+001.547 10.7m RT to 1+050 10.7m RT  
1+050 10.7m RT to 1+100 13.5m RT  
1+100 13.5m RT to 1+170 13.5m RT  
1+170 13.5m RT to 1+241.783 8.018m RT  
1+249.155 7.455m RT to 1+267 6.093m RT  
1+267 6.093m RT to 1+335.232 6.126m RT

Sta 1+001.6 11.5m LT to 1+050 11.5m LT  
1+050 11.5m LT to 1+080 8.86m LT  
1+080 8.86m RT to 1+090.589 8.7m LT  
1+113.934 8.7m LT to 1+138.849 8.7m LT  
1+208.266 12.3m LT to 1+230 12.452m LT  
1+230 12.452m LT to 1+280 8.852m LT  
1+280 8.852m LT to 1+320.898 8.852m LT  
1+320.898 8.852m LT to 1+341.216 6.056m LT

Item 609.12 Vertical Curb Type I - Circular  
Stillwater Avenue  
Sta 0+977.663 13.309m RT to 0+980.696 15.056m RT 3.5m Radius  
1+000.533 15.064m RT to 1+001.547 10.7m RT 2.3m Radius  
0+997.216 12.411m LT to 1+001.6 11.5m LT 11m Radius  
1+138.849 8.7m LT to 1+142.519 9.109m LT 17m Radius  
1+148.028 11.4m LT to 2+476.127 (Ramp B) 2.457m RT 17m Radius  
1+038.423 2.582m LT Ramp A to 1+199.528 14.97m LT 17m Radius  
1+204.720 12.686m LT to 1+208.266 12.3m LT 17m Radius

Item 609.234 Terminal Curb Type I - 1.2m  
Stillwater Avenue  
Sta 0+950.000 9.5m RT to 0+951.2 9.5m RT  
1+241.783 8.018m RT to 1+242.939 7.927m RT  
1+247.917 7.547m RT to 1+249.155 7.455m RT  
1+335.232 6.126m RT to 1+336.438 6.125m RT  
2+476.127 2.457m RT to 2+474.966 2.4m RT Ramp B  
1+039.595 2.4m RT to 1+038.423 2.582m RT Ramp A

Item 609.237 Terminal Curb Type I - 2.1m  
Stillwater Avenue  
Sta 0+995.135 13.585m LT to 0+997.216 12.411m LT  
1+090.589 8.776m LT to 1+092.689 8.759m LT  
1+111.788 8.7m LT to 1+113.934 8.7m LT  
1+142.519 9.109m LT to 1+144.536 9.687m LT  
1+146.916 10.378m LT to 1+148.028 11.4m LT  
1+199.528 14.97m LT to 1+201.024 13.926m LT  
1+202.691 13.262m LT to 1+204.720 12.686m LT

Item 609.34 Curb Type 5  
Stillwater Avenue  
Sta 1+000 3.5m RT to 1+050 3.5m RT  
1+050 3.5m RT to 1+100 1.2m RT  
1+100 1.2m RT to 1+164.959 1.2m RT  
1+000 2.3m RT to 1+050 2.3m RT  
1+050 2.3m RT to 1+100 0m RT  
1+100 0m RT to 1+164.959 0m RT

Item 609.35 Curb Type 5 - Circular  
Stillwater Avenue  
Sta 1+000 2.3m RT to 1+000 3.5m RT Radius = 0.8m  
1+164.959 0m RT to 1+164.959 1.2m RT Radius = 0.6m

Item 615.07 Loam  
Loam is to be placed 100mm deep in all #1 Seed areas and 50mm deep in  
all other seed  
areas, as directed by the Construction Manager.

Item 618.1301 Seeding Method #1  
Method #1 Seed has been estimated for all disturbed areas on Stillwater  
Avenue.

Item 618.1401 Seeding Method #2  
Method #2 Seed has been estimated for all non-guardrail inslopes and  
backslopes.

Item 618.143 Special Seed Mix  
Special Seed Mix has been estimated for all guardrail fill slopes.

Item 623.06 Right of Way Monument  
Ramp A

Sta 1+089 15m RT  
1+112.696 15m RT  
1+141.395 15m RT  
1+207.685 15m RT  
1+302.998 15m RT

Ramp B  
Sta 1+174.949 15m RT

Ramp C  
Sta 1+118.342 23m RT  
1+130.545 23m RT  
1+178.545 23m RT  
1+258.596 23m RT  
1+285.596 23m RT  
1+486.820 23m RT  
1+570.266 23m RT

Stillwater Avenue  
Sta 1+134.987 15.166m LT  
1+197.014 15m RT  
1+210.364 15m RT  
1+240 17m LT and 15m RT  
1+260 15m LT

PROJECT DESIGN ENGINEER	BY		DATE
DESIGN-DETAILED	B. WATSON	J. VELLEUX	3/00
CHECKED			
REVISIONS			
FIELD CHANGES			

PLANS



**METRIC**

1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

F.H.V.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-M-95-8(155)180	9	140

CURVE DATA - STILLWATER AVE. (MA10)	
PI STA.	1+203.889
DELTA	0°-15'-18.0" RT
T	8.8752
L	13.3503
E	0.0074
R	3000.0000

CURVE DATA - RAMP 'A' (MA80 & MA81)							
PI STA.	1+028.426	PI STA.	1+127.059	PI STA.	1+300.334	PI STA.	1+407.523
DELTA	38°-22'-05.0" RT	DELTA	8°-12'-00.8" RT	DELTA	68°-55'-22.1" RT	DELTA	1°-20'-12.9" RT
T	19.4838	T	14.3832	T	92.8491	T	17.5008
L	37.5003	L	28.8983	L	182.3955	L	34.9997
E	3.2928	E	0.9887	E	28.7341	E	0.1021
R	58.0000	R	265.2000	R	135.0000	R	1500.0000

CURVE DATA - RAMP 'B' (MA78 & MA80)					
PI STA.	2+090.013	PI STA.	2+280.510	PI STA.	2+454.881
DELTA	4°-58'-58.2" RT	DELTA	98°-46'-30.1" RT	DELTA	38°-22'-05.0" LT
T	20.0127	T	163.2888	T	27.9338
L	40.0001	L	241.3528	L	53.5719
E	0.4351	E	75.0737	E	4.7038
R	480.0000	R	140.0000	R	80.0000

CURVE DATA - RAMP 'C' (MA95)									
PI STA.	1+154.758	PI STA.	1+220.842	PI STA.	1+507.044	PI STA.	1+828.338	PI STA.	1+938.370
DELTA	18°-34'-56.7" RT	DELTA	44°-04'-25.2" RT	DELTA	198°-54'-28.5" LT	DELTA	8°-12'-00.7" LT	DELTA	38°-22'-05.1" LT
T	24.2128	T	42.0985	T	221.4477	T	15.4355	T	28.3727
L	48.0000	L	80.0000	L	201.2244	L	30.8409	L	50.7584
E	1.9875	E	8.1968	E	153.4912	E	0.4177	E	4.4588
R	148.0000	R	104.0000	R	83.0000	R	285.0000	R	75.8000

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

**GEOMETRIC  
LAYOUT  
BANGOR**

STILLWATER AVE. & I-95

20 0 20 40

SHEET 1 OF 1 AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	DATE
DESIGN-DETAILED	03/00
CHECKED	
REVISIONS	
FIELD CHANGES	
PLANS	

01MAR00-0100.10



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PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	AMACDONALD	08/99
CHECKED		
REVISIONS		
FIELD CHANGES		

PLANS

01MAR00-0100.10

METRIC

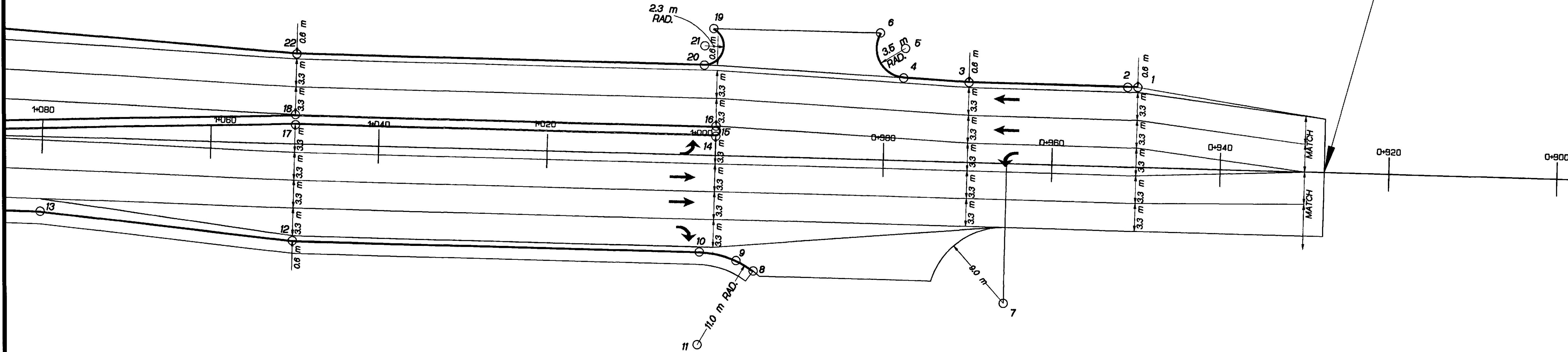
1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	95-0155180	10	140

POINT NO. 14 STA. 1+000.000, 2.300 m RT  
POINT NO. 15 STA. 1+000.000, 2.900 m RT  
POINT NO. 16 STA. 1+000.000, 3.500 m RT  
POINT NO. 17 STA. 1+050.000, 2.300 m RT  
POINT NO. 18 STA. 1+050.000, 3.500 m RT  
POINT NO. 19 STA. 1+000.533, 15.064 m RT  
POINT NO. 20 STA. 1+001.547, 10.700 m RT  
POINT NO. 21 STA. 1+001.547, 13.000 m RT  
POINT NO. 22 STA. 1+050.000, 10.700 m RT

POINT NO. 1 STA. 0+950.000, 9.500 m RT  
POINT NO. 2 STA. 0+951.200, 9.500 m RT  
POINT NO. 3 STA. 0+970.000, 9.500 m RT  
POINT NO. 4 STA. 0+977.663, 13.309 m RT  
POINT NO. 5 STA. 0+977.803, 9.812 m RT  
POINT NO. 6 STA. 0+980.696, 15.056 m RT

STA. 0+927.677 BEGIN STILLWATER  
AVENUE PORTION OF PROJECT



POINT NO. 7 STA. 0+965.304, 16.585 m LT  
POINT NO. 8 STA. 0+995.135, 13.585 m LT  
POINT NO. 9 STA. 0+997.216, 12.411 m LT  
POINT NO. 10 STA. 1+001.600, 11.500 m LT  
POINT NO. 11 STA. 1+001.600, 22.500 m LT  
POINT NO. 12 STA. 1+050.000, 11.500 m LT  
POINT NO. 13 STA. 1+080.000, 8.860 m LT

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

CURB LAYOUT  
BANGOR

STILLWATER AVE. & I-95

5 0 5 10

SHEET 1 OF 3 AUGUSTA, MAINE

BANGOR

STILLWATER AVE. & I-95



RAMP 'A'	
CURVE DATA	
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T	19.4838
L	37.5003
E	3.2926
R	56.0000

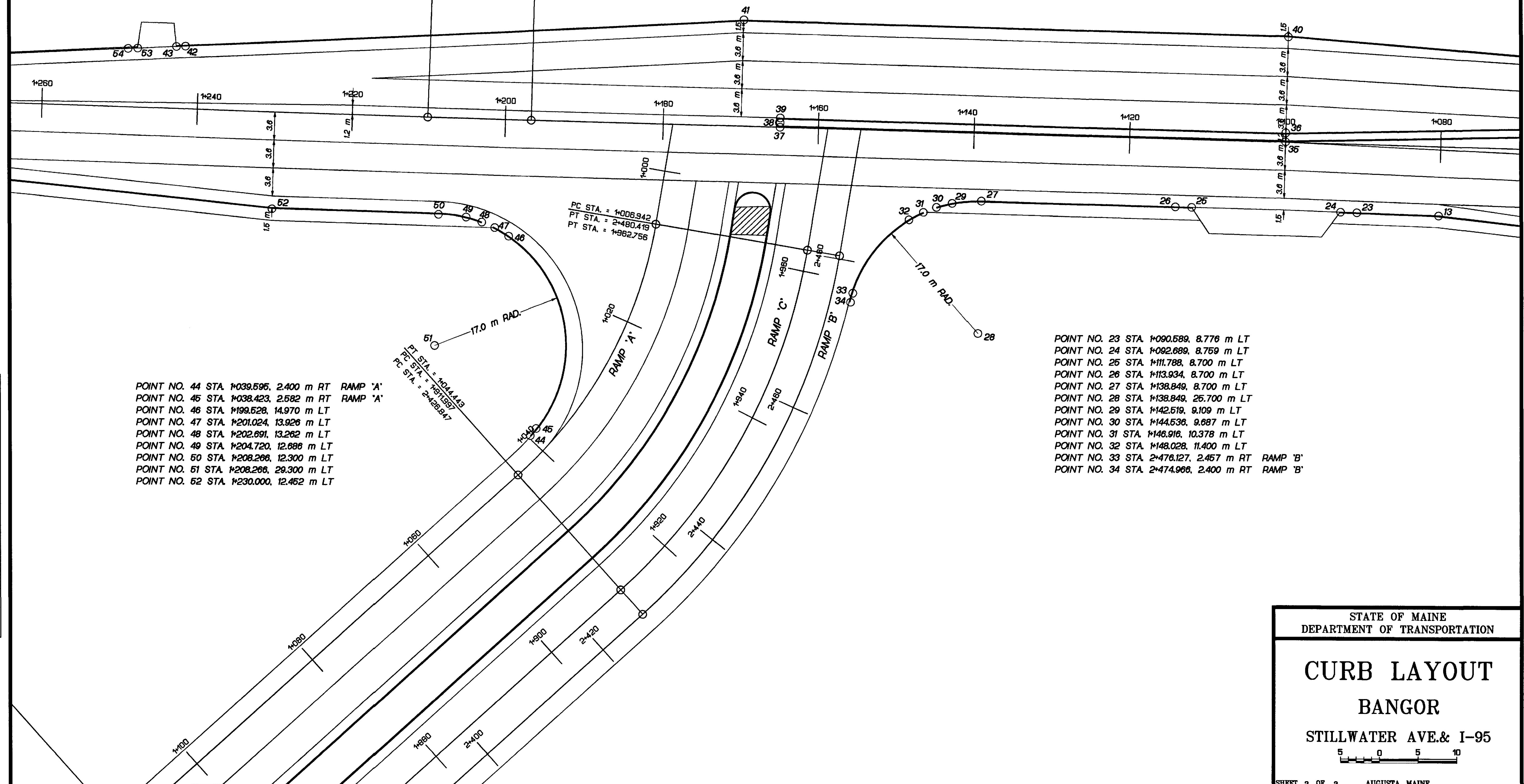
RAMP 'B'	
CURVE DATA	
PI STA.	2+454.681
DELTA	38°-22'-05.0" LT
T	27.8339
L	53.5719
E	4.7038
R	80.0000

RAMP 'C'	
CURVE DATA	
PI STA.	1+938.370
DELTA	38°-22'-05.1" L
T	26.3727
L	50.7594
E	4.4568
R	75.8000

CURVE DATA	
PI STA.	1+203.689
DELTA	0°-15'-18.0" RT
T	6.6752
L	13.3503
E	0.0074
R	3000.0000

PL SIA. = 1197.014

POINT NO.	35	STA.	1100.000.	0.000	m	N/A
POINT NO.	36	STA.	1100.000.	1.200	m	RT
POINT NO.	37	STA.	1164.959.	0.000	m	N/A
POINT NO.	38	STA.	1164.959.	0.600	m	RT
POINT NO.	39	STA.	1164.959.	1.200	m	RT
POINT NO.	40	STA.	1100.000.	13.500	m	RT
POINT NO.	41	STA.	1170.000.	13.500	m	RT
POINT NO.	42	STA.	1241.783.	8.018	m	RT
POINT NO.	43	STA.	1242.939.	7.927	m	RT



PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	AMACDONALD	JUELLEUX
CHECKED		
REVISED		
STANDARD CHANGES		


01MAR00-01.00.10

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

CURB LAYOUT

BANGOR

STILLWATER AVE.& I-95



SHEET 2 OF 3

AUGUSTA, MAINE

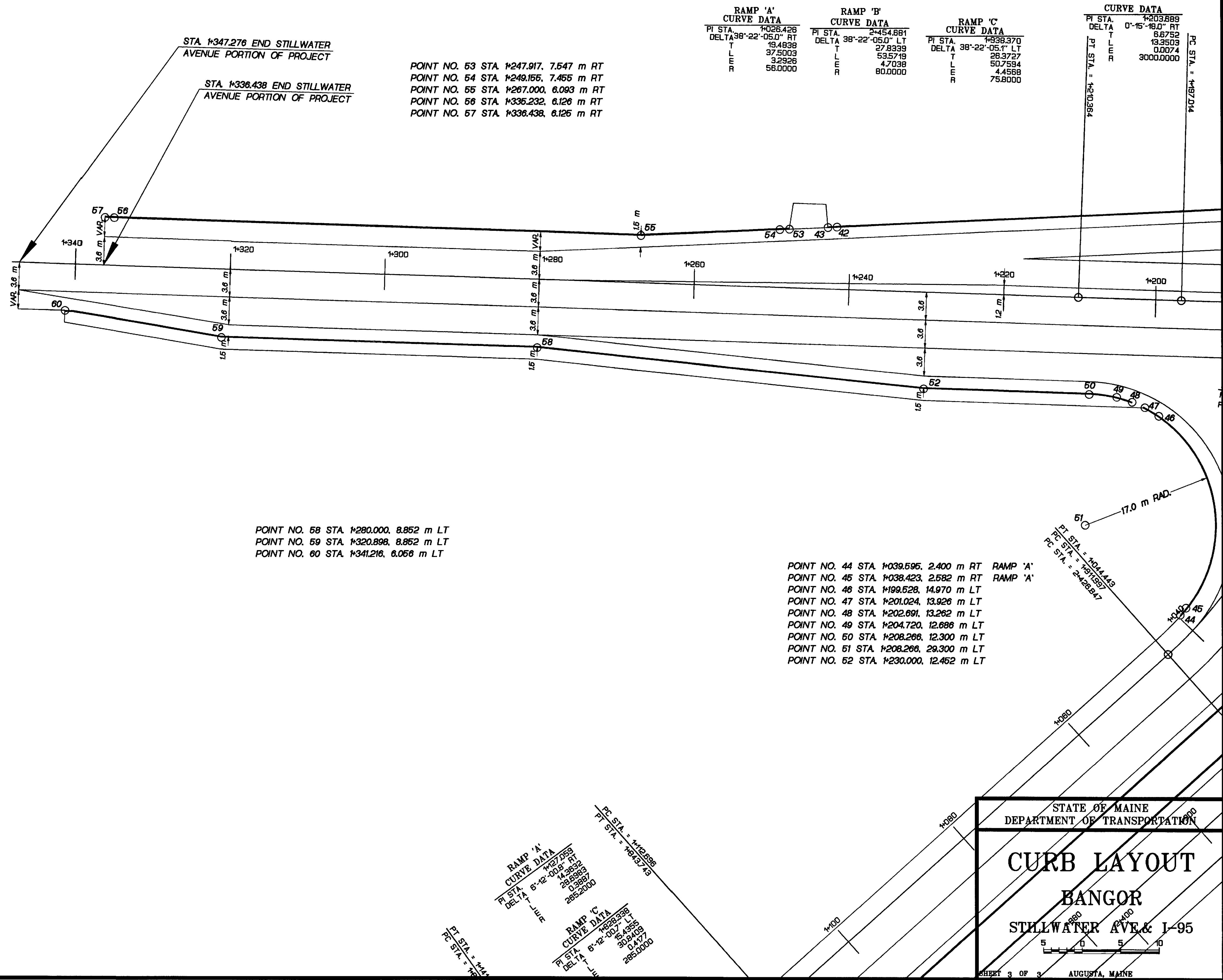


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WINDOW CURB3 SPEEDSETS

PROJECT DESIGN ENGINEER	DESIGN-DETAILED	CHECKED	BY	DATE
			AMACDONALD	08/99
PLANS	REVISIONS	FIELD CHANGES		

01MAR00-0100.10

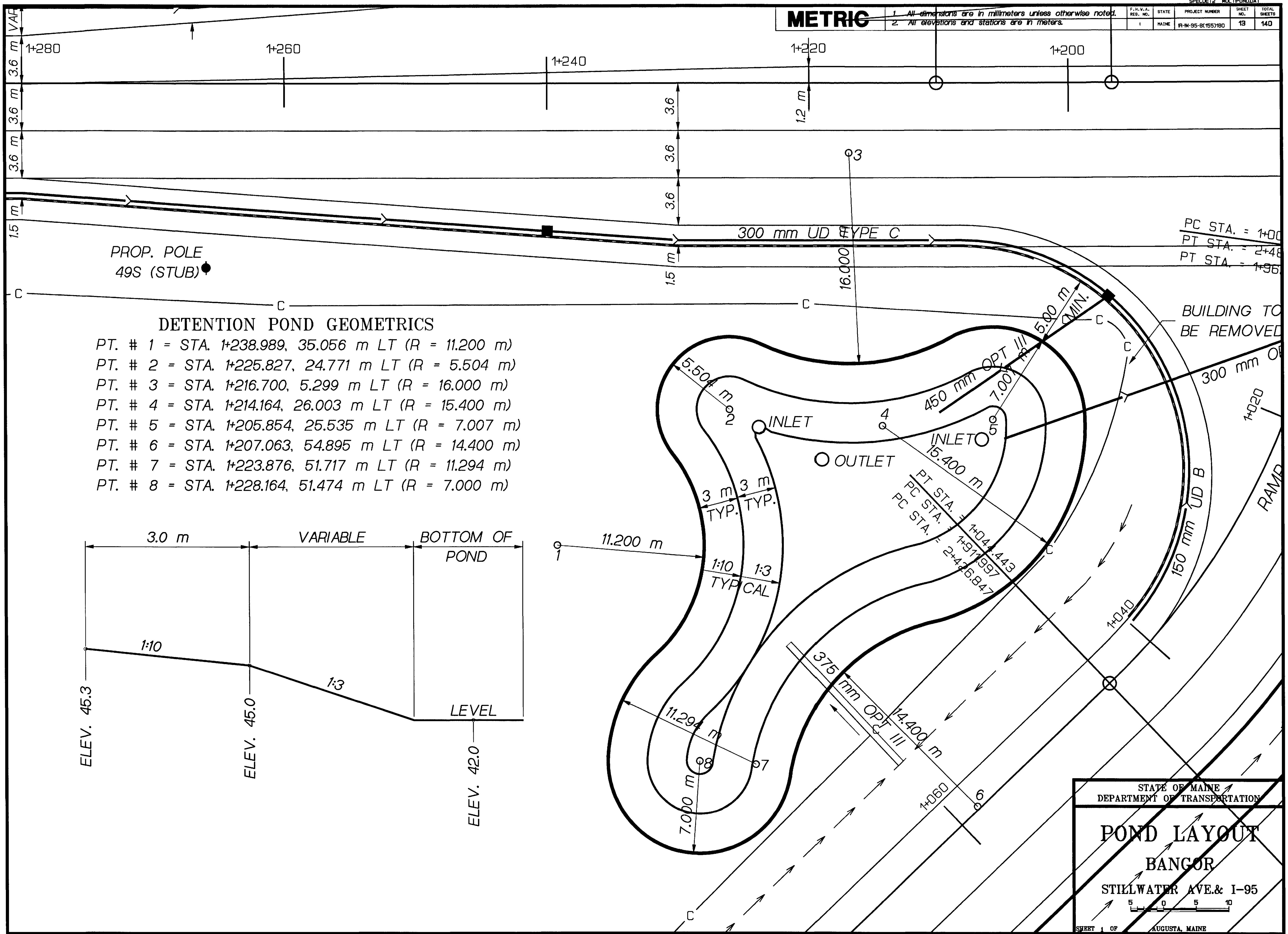
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F.H.V.A. RES. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS	
1	MAINE	R-IN-95-81(155)180	12	140	



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PIN.DISK:12: (PIN. 4926.00-HIGHWAY) TAILOR.FGB.1  
Windows POND SPECDET2

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	AMACDONALD	08/99
CHECKED		
REVISIONS		
FIELD CHANGES		

01MAR00-0100.10



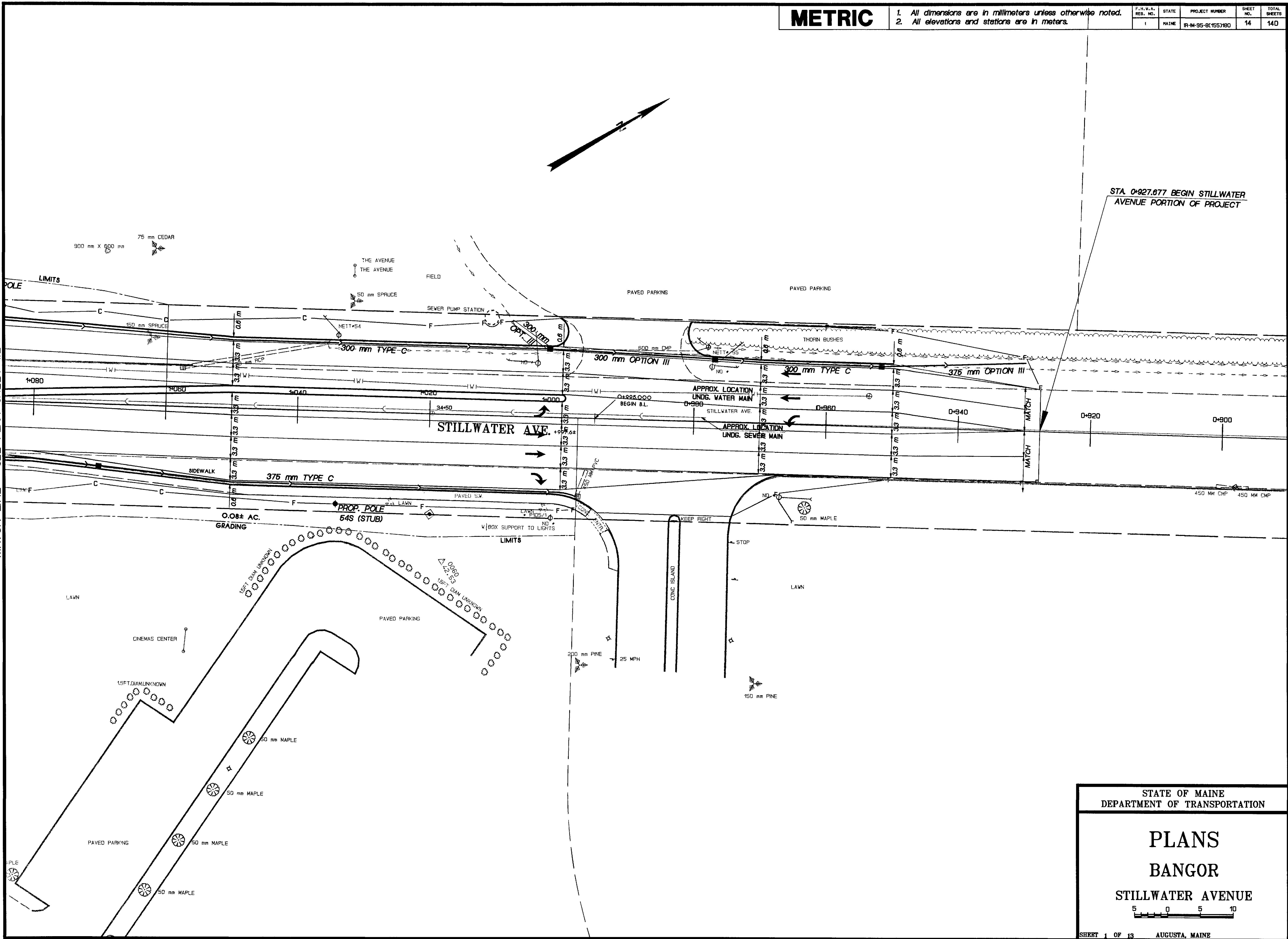


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Windows PLAN1

PROJECT DESIGN ENGINEER		BY	DATE
DESIGN-DETAILED		AMACDONALD	JUELLEUX
CHECKED			
REVISIONS			
FIELD CHANGES			

01MAR00-010010

MATCH LINE - SEE PLAN SHEET #2



**METRIC**

1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

F.H.V.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	R-M-95-6(155)180	14	140

STA 0+927.877 BEGIN STILLWATER  
AVENUE PORTION OF PROJECT

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

**PLANS**  
**BANGOR**  
**STILLWATER AVENUE**

5 0 5 10

SHEET 1 OF 13 AUGUSTA, MAINE

BANGOR

STILLWATER AVE.& I-95



**METRIC**

1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

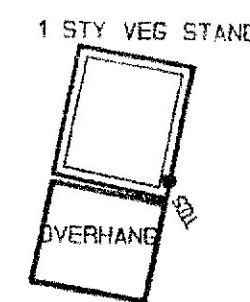
F.H.V.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-IM-95-8(155)180	15	140

RAMP 'A'	
CURVE DATA	
PI STA.	1+026.426
DELTA	38°-22'-05.0" RT
T	19.4836
L	37.5003
E	3.2926
R	56.0000

RAMP 'B'	
CURVE DATA	
PI STA.	2+454.68
DELTA	38°-22'-05.0" L
T	27.833
L	53.571
E	4.703
R	80.000

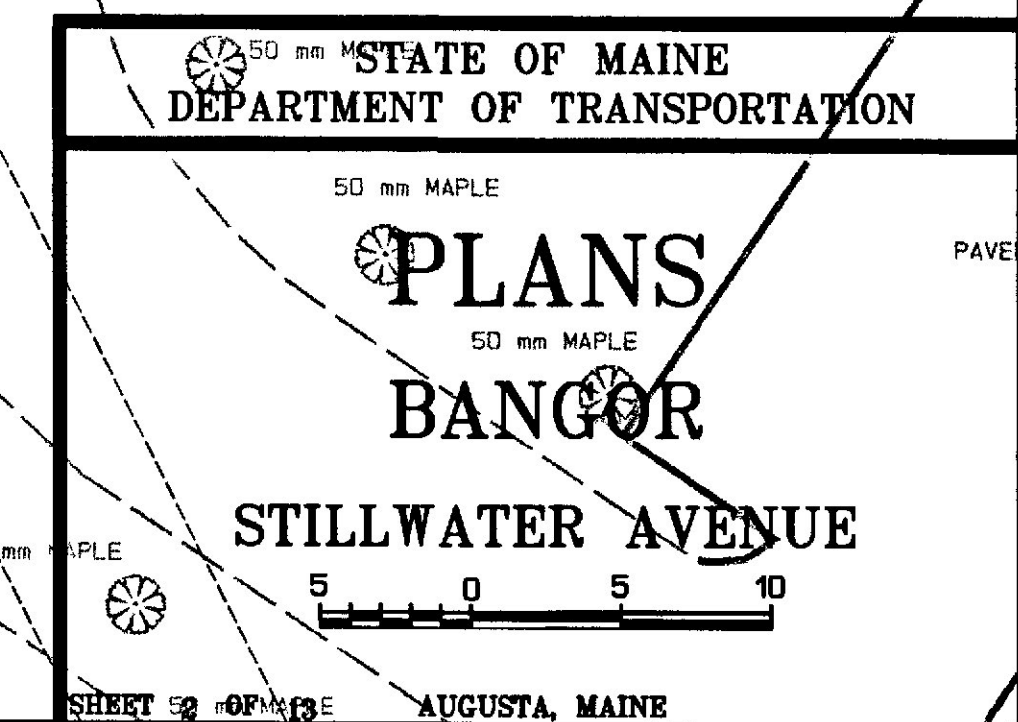
RAMP 'C	
CURVE DATA	
PI STA.	1+938.370
DELTA	38°-22'-05.1" LT
T	26.3727
L	50.7594
E	4.4568
R	75.8000

CURVE DATA	
PI STA.	1+203.689
DELTA	0°-15'-18.0" RT
T	6.6752
L	13.3503
E	0.0074
R	3000.0000



PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	A.MACDONALD	06/99
CHECKED		
REVISIONS		
STANDARD CHANGES		

01MAR00-01.00.10



MATCH LINE - SEE PLAN SHEET #4

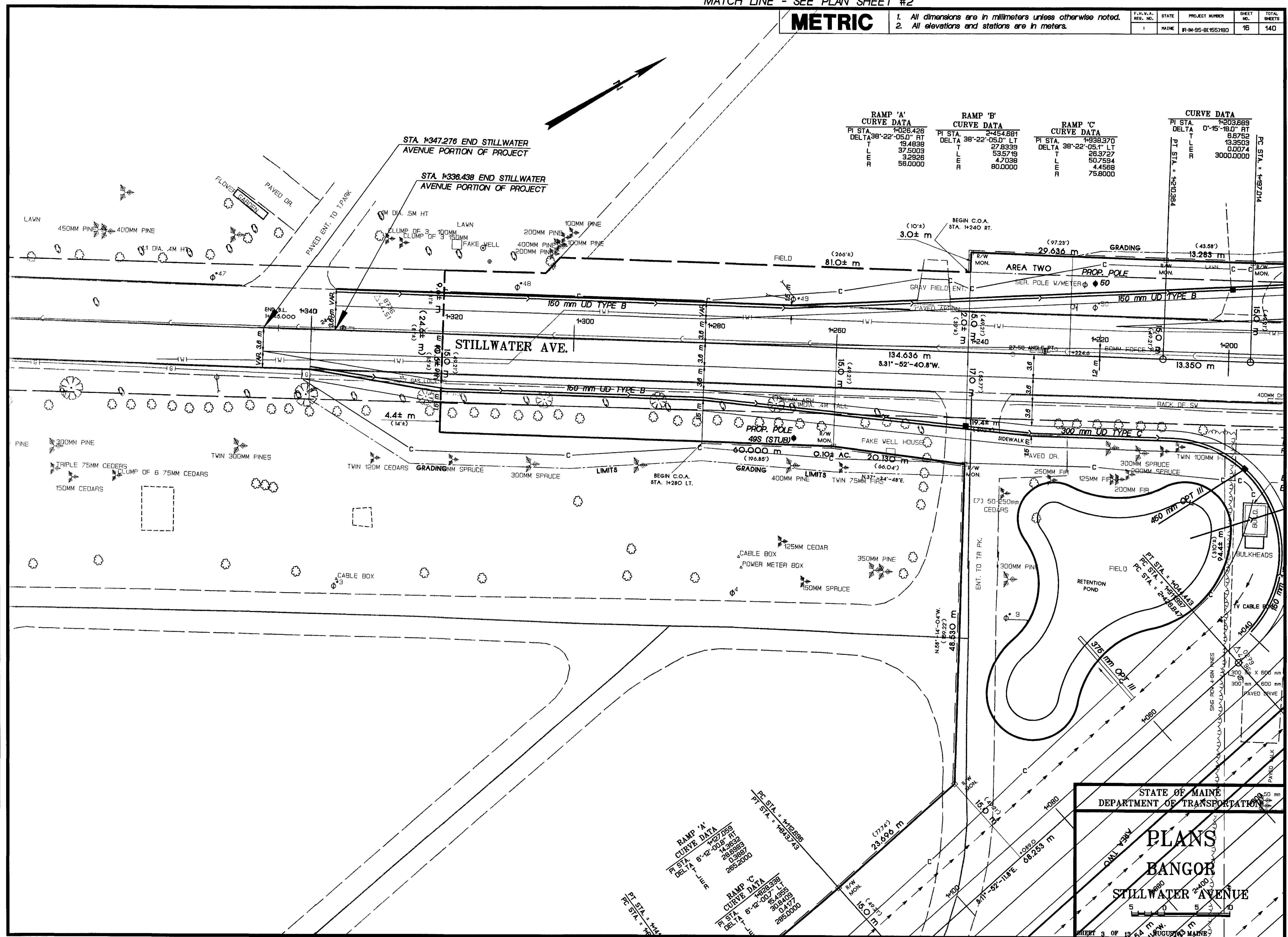
**BANGOR**

STILLWATER AVE.&amp; I-95



1. All dimensions are in millimeters unless otherwise noted.  
2. All elevations and stations are in meters.

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-14-95-8(155)180	16	140



MATCH LINE - SEE PLAN SHEET #2

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	AMACDONALD J VIVELLEUX	08/99
CHECKED		
REVIEWS		
PLANS		
STUDY PURPOSE		

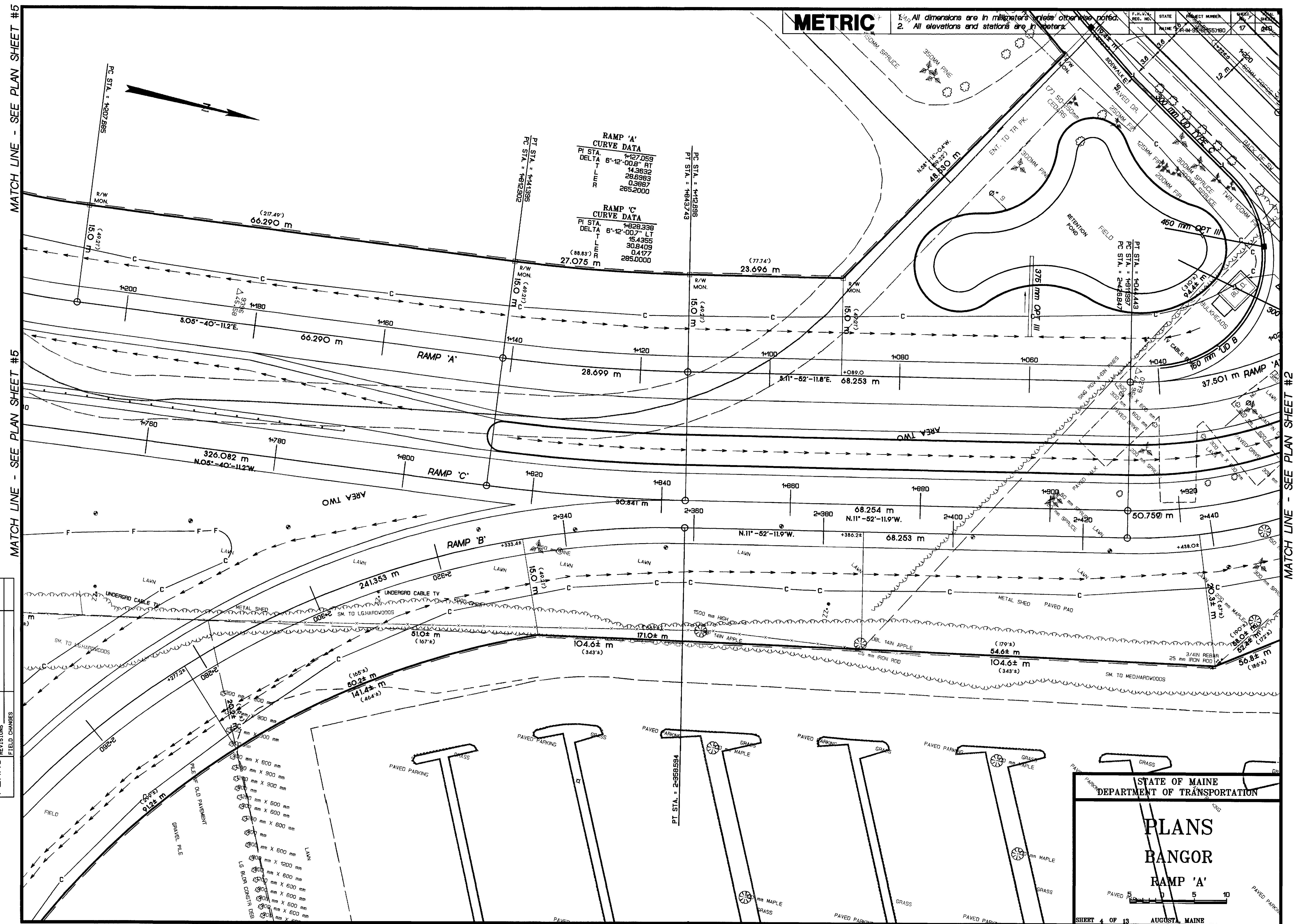
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Windows PLANS      PLN3
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**BANGOR**

STILLWATER AVE.&amp; I-95





MATCH LINE - SEE PLAN SHEET #5

MATCH LINE - SEE PLAN SHEET #5

**MATCH LINE - SEE PLAN SHEET #2**

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	AMACDONALD	J.VELLEUX
CHECKED		
REVISED		
FIELD CHANGES		

01MAR00-01.00.10

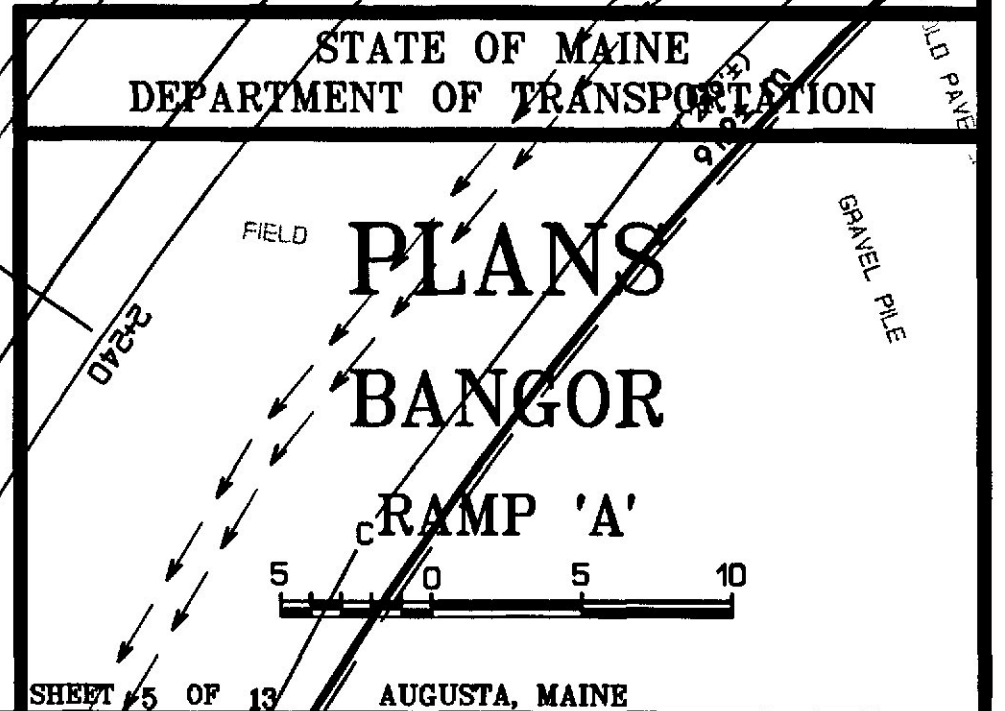
MATCH LINE - SEE PLAN SHEET #9

**BANGOR**

STILLWATER AVE.&amp; I-95

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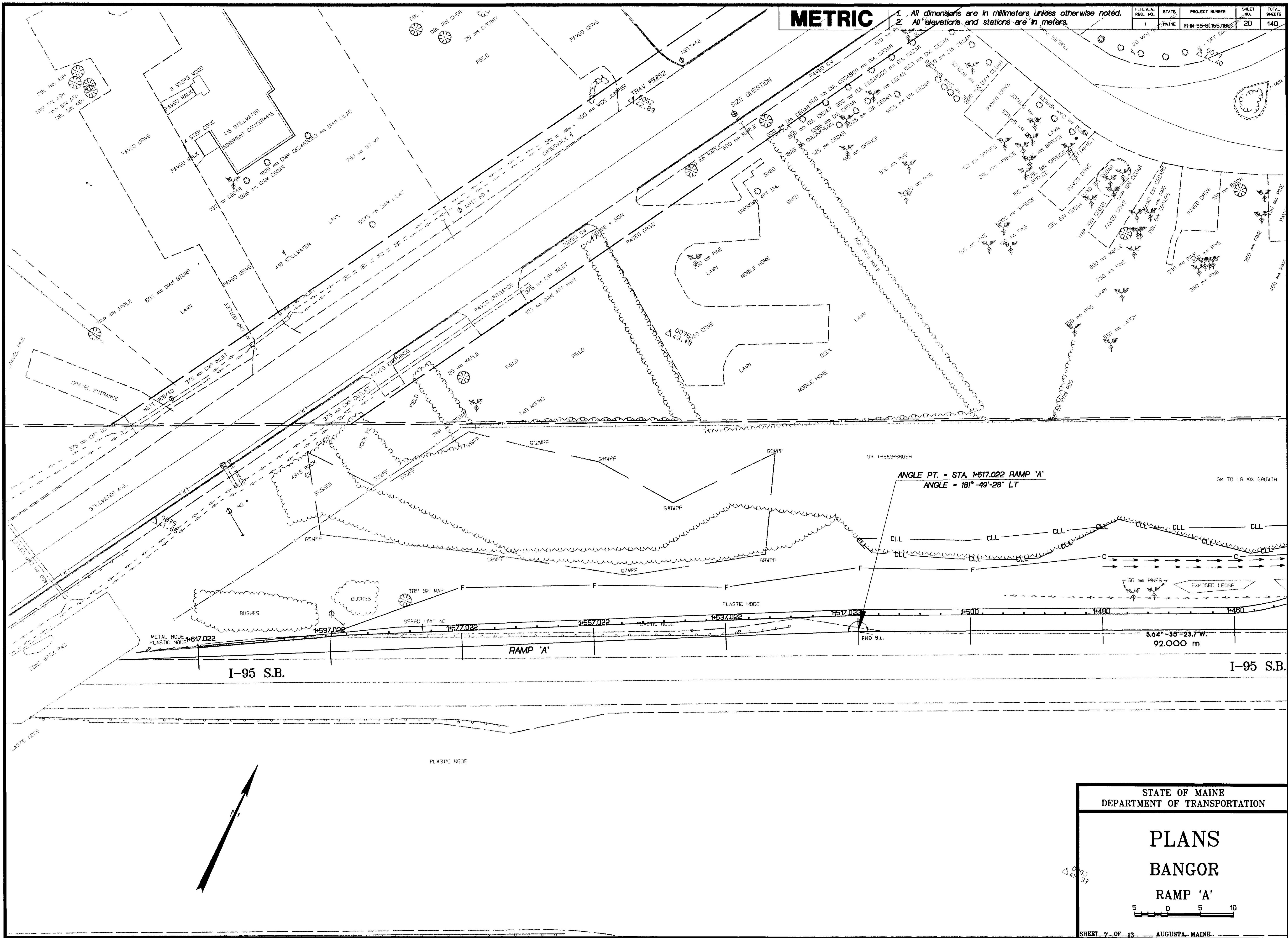




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PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	AMACDONALD J. JUELLEUX	08/99
CHECKED		
REVISIONS		
FIELD CHANGES		

01MAR00-0100.10



**METRIC**

1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-44-95-0155/100	20	140

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

**PLANS**  
**BANGOR**  
**RAMP 'A'**

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SHEET 7 OF 13 AUGUSTA, MAINE

BANGOR STILLWATER AVE. & I-95

MATCH LINE - SEE PLAN SHEET #6