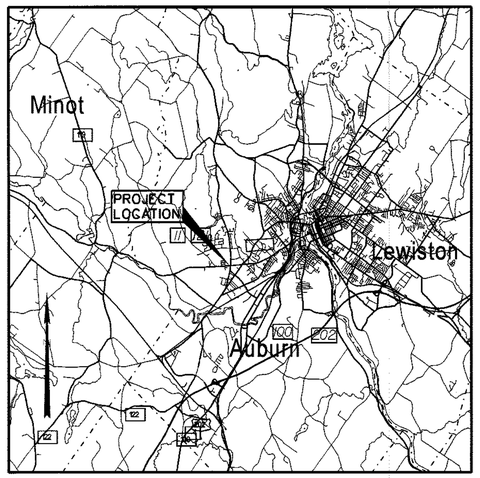
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

AUBURN
ANDROSCOGGIN COUNTY
MINOT AVENUE\HOTEL ROAD
STP-1566(800)X
PROJECT LENGTH : 0.27 mi.
INTERSECTION IMPROVEMENTS



LOCATION MAP

0 1 2
Scale in Miles

INDEX OF SHEETS

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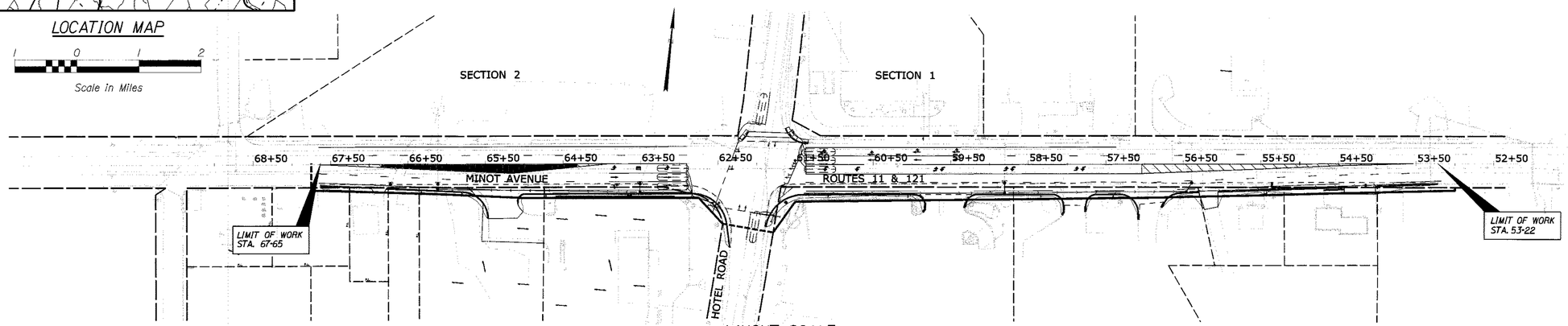


LAYOUT SCALE

80 0 80 160
Scale in Feet

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
Centerline-Existing
Centerline-Proposed
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
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

TRAFFIC DATA

	Section I	Section 2
Current (2008) AADT	16110	16810
Future (2028) AADT	19330	20170
DHV - % of AADT	10%	10%
Design Hour Volume	1863	2085
% Heavy Trucks (AADT)	6%	8%
% Heavy Trucks (DHV)	2%	3%
Directional Distribution (DHV)	59%	63%
18 kip Equivalent P 2.0	637	935
18 kip Equivalent P 2.5	607	891
Design Speed (mph)	35mph	35mph

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE
COMMISSIONER: — 11/28/11
CHIEF ENGINEER: — 11/28/11

STATE OF MAINE — RALPH C. MORRISON, JR. — No. 9599

PROJECT INFORMATION

		SIGNATURE	
PROGRAM			
PROJECT MANAGER	P. MACDONALD	7699	
DESIGNER	R. NORWOOD	P.E. NUMBER	
CONSULTANT	CORRILL-PALMER	10-14-11	
PROJECT RESIDENT		DATE	
CONTRACTOR			
PROJECT COMPLETION DATE			

PIN 15668.00

STP-1566(800)X

AUBURN
MINOT AVENUE\HOTEL ROAD

TITLE SHEET

SHEET NUMBER
1
OF 21

Filename: ...\highway\msta\001_title.dgn Division: HIGHWAY Username: common Date:10/13/2011

GENERAL NOTES

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

2. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER ITEM 202.203 PAVEMENT BUTT JOINT.

3. CONSTRUCT BUTT JOINTS AT ALL PAVED DRIVES AND ENTRANCES.

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. STUMPS HAVE BEEN ESTIMATED TO BE REMOVED UNDER ITEM 201.24 REMOVE STUMP.

6. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT. ESTIMATED GRUBBING DEPTHS ARE 6 INCHES IN FIELD AREAS AND 12 INCHES IN WOODED AREAS.

7. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER. OR AS DIRECTED BY THE RESIDENT.

8. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.

9. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.

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

11. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

12. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2" HOT MIX ASPHALT AND 12" AGGREGATE SUBBASE COURSE GRAVEL.

13. COMMERCIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 4" HOT MIX ASPHALT AND 18" AGGREGATE SUBBASE COURSE GRAVEL.

14. ALL PAVED WALKS TO BE CONSTRUCTED WITH 12" AGGREGATE SUBBASE COURSE-GRAVEL AND 2" HOT MIX ASPHALT UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

15. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

16. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

17. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES.

18. 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.

19. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
- ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS
- ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT
- ALL DITCHING AT PIPE ENDS
- FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW USED UNDER PIPES.
- GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATR BACKFILL
- ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES
- FLOW LINES MAY BE CHANGED BY 1.5 FT
- ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS
- BACKFILL
- ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT AREAS OF PROPOSED CATCH BASINS

20. ALL UNDERDRAIN NOT SHOWN ON THE CROSS SECTIONS WILL HAVE A FLOW LINE OF 5.5 FEET BELOW FINISH GRADE DIRECTLY ABOVE THE UNDERDRAIN AND UNDERDRAIN SAND BACKFILL PLACED TO AN ELEVATION EQUAL TO THE BOTTOM OF THE NEW GRAVEL LAYER. ALL UNDERDRAIN SHOWN ON THE CROSS SECTIONS WILL HAVE THE FLOW LINE SCALED FROM THE CROSS SECTIONS. ALL FLOW LINE ELEVATIONS ARE SUBJECT TO APPROVAL BY THE RESIDENT.

21. ALL CATCH BASINS TYPE A 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

22. IN AREAS WHERE CURB TYPE 1 WILL BE RESET. THE EXISTING CURB SUITABLE FOR USE AS TERMINAL ENDS SHALL BE CUT IF NECESSARY AND UTILIZED AS SUCH AND PAID FOR UNDER ITEM 609.38 (RESET CURB TYPE 1).

23. LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.

24. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED.

25. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES.

26. ACRYLIC LATEX COLOR FINISH GREEN (ITEM 658.20) SHALL BE PLACED ON ALL PAVED ISLANDS.

27. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK; IT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

28. 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. ALL LAYOUT, STAKES, AND GRADES WILL BE CHECKED AND MUST BE ACCEPTABLE TO THE RESIDENT.

29. 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.

30. 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.

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

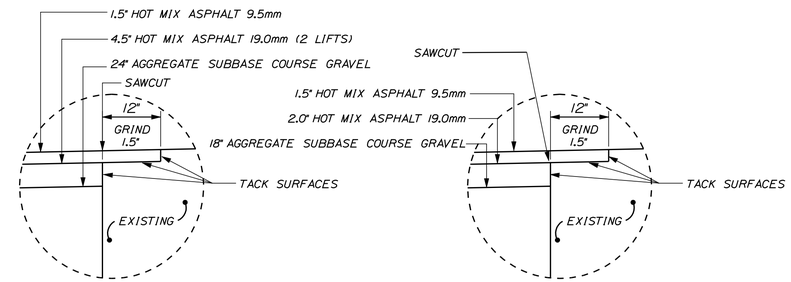
32. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

33. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT

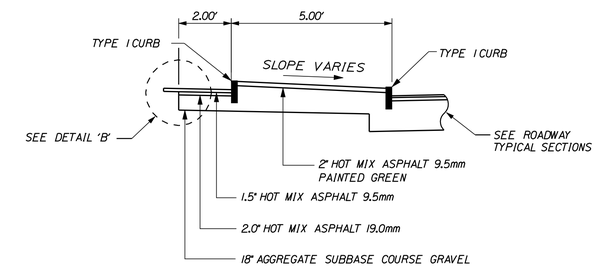
34. RELOCATION OF LAMP POST AT STA 55+50 +/- LT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

35. RELOCATION OF THE TREES AT STA 59+75 TO 61+50 LT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

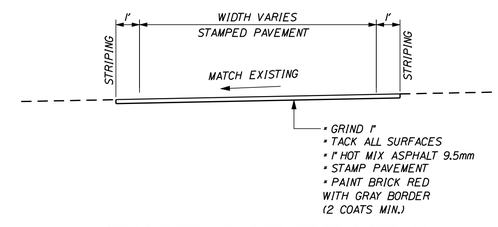
AGGREGATE SUBBASE COURSE GRAVEL
SHOULDER VARIES 0.3 TO 1.06 CY/100 LF
STATION TO STATION
53+22 TO 68+35 LT



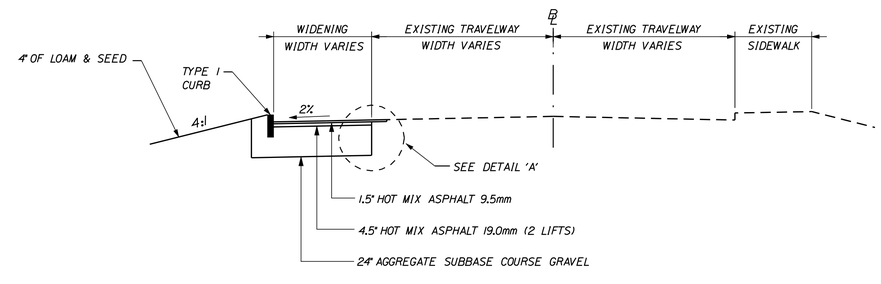
DETAIL 'A' DETAIL 'B'



RAISED ISLAND DETAIL
STA 54+45 TO STA 54+70 LT
STA 64+60 TO STA 63+00 LT



STAMPED PAVEMENT DETAIL



ROADWAY TYPICAL SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	S. SMITH	
DESIGN-DETAILED	R. NORWOOD	D. BURGESS 05-08-09
CHECKED-REVIEWED	T. CORRILL	XX-XX-XX
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

GENERAL NOTES & TYPICAL SECTIONS

SHEET NUMBER
2
OF 18

Filename: ...\MSTA\002_Typical_01.dgn Division: GEOTECH Username: Kevin.Cummings Date:3/23/2012

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	1,700	
TOTAL COMMON EXCAVATION		1,700

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	15	
TOTAL FILL		15

ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION (FROM CROSS SECTIONS)	25	
ROCK EXCAVATION (BOULDERS)	0	
TOTAL ROCK EXCAVATION		25

UNCLASSIFIED EXCAVATION FOR ESTIMATE

TOTAL COMMON EXCAVATION	1,700	
TOTAL ROCK EXCAVATION	0	
TOTAL UNCLASSIFIED EXCAVATION		1,700

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		1,700
DEDUCTIONS:	0	
(2) TOTAL DEDUCTIONS		0
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		1,700
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		
TOTAL AVAILABLE NON-ROCK EXCAVATION		1,700

COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)		0

COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW =	0 x 1.15=	0

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL			15
TOTAL AVAIL. NON-ROCK EXCAV.	1,700 x 0.85 =	1,445	
TOTAL AVAIL. ROCK EXCAV.	0 x 1.33 =	0	
TOTAL AVAIL. STR. ROCK EXCAV.	25 x 1.33 =	33	
TOTAL WASTE MATERIAL TO BE UTILIZED	0 x 1 =	0	
(4)TOTAL AVAILABLE EXCAVATION		=	1,478
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION			-1,463

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED 1,463

n **1463 CY**

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		-1,463
COMMON BORROW =	-1,463 x 1.15 =	-1,683

ESTIMATED QUANTITIES

FOR ESTIMATED QUANTITIES, REFER TO THE MOST CURRENT SCHEDULE OF ITEMS IN THE CONTRACT BOOK.

DRIVEWAY ENTRANCES & ISLANDS & YARDS

LOCATION	DESCRIPTION	OPENING
66+84.45 TO 64+31.98	STAMPED ISLAND	
66+88 LT	PAVED ENTRANCE	20 FT.
65+38 LT	PAVED ENTRANCE	40 FT.
56+56 LT	PAVED ENTRANCE	60 FT.
57+90 LT	PAVED ENTRANCE	26 FT.
56+92 LT	PAVED ENTRANCE	30 FT.
56+17 LT	PAVED ENTRANCE	18 FT.
54+23 LT	PAVED ENTRANCE	40 FT.

WALK WAYS

LOCATION	DESCRIPTION
55+44 LT	PAVED WALK

PEDESTRIAN RAMPS WITH TRUNCATED DOMES

STATION	OFFSET
8+34.02	20.72' LT
8+40.86	32.93' RT

CLEARING

STATION	TO	STATION
67+25 LT		66+00 LT

REMOVING SINGLE TREE TOP ONLY - ITEM # 201.23

STATION	OFFSET	DESCRIPTION	QUANTITY
67+16.16	32.75' LT	20" MAPLE	1 EACH
55+97.22	38.41' LT	18" SPRUCE	1 EACH

REMOVING STUMPS - ITEM # 201.24

STATION	OFFSET	DESCRIPTION	QUANTITY
67+16.16	32.75' LT	20" MAPLE	1 EACH
55+97.22	38.41' LT	18" SPRUCE	1 EACH
55+36.08	27.64' LT	EXISTING STUMP	1 EACH

MODIFY CATCH BASIN FRAME & GRATE TO MANHOLE FRAME & GRATE - ITEM # 604.16

STATION	OFFSET	QUANTITY
66+72.77	26.67' LT	1 EACH
66+11.41	26.69' LT	1 EACH
63+50.76	26.69' LT	1 EACH
58+80.52	25.67' LT	1 EACH
56+39.31	25.52' LT	1 EACH

REMOVE AND RESET SIGNS - ITEM # 645.106, 645.116 & 645.292

STATION	OFFSET	TO	STATION	OFFSET
STA 62+33	33' LT		STA 62+33	38' LT
STA 65+80	31' LT		STA 65+80	40' LT
STA 65+03	34' LT		STA 65+05	44' LT
STA 64+71	35' LT		STA 64+71	42' LT
STA 58+35	30' LT		STA 58+35	43' LT
STA 57+41	30' LT		STA 57+41	43' LT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

PROJ. MANAGER	S. SMITH	BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. CORRILL		XX-XX-XX
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

ESTIMATED QUANTITIES

SHEET NUMBER

3

OF 18

Filename: ...\HIGHWAY\MSTA\003_Estimate.dgn Division: HIGHWAY Username: rhobe.moulton Date:3/16/2012

STATION	CULVERT PIPE											CATCH BASIN					PIPE ARCH			MH		UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III														TYPE B	TYPE C						
								SMOOTHLINED		CORRUGATED												TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C		E	F	SPAN	RISE	LENGTH			LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
ROADWAY CULVERTS																													
CB2 TO DMH3								12	7																				
CB3 TO DMH5								12	7																				
CB4 TO DMH6								12	9																				
CATCH BASINS AND MANHOLES																													
CB1 - STA 66+11.88, 33.52' LT												1.125	ϕ 72"																
CB2 - STA 63+50.75, 37.69' LT												1																	
CB3 - STA 58+80.35, 38.71' LT												1																	
CB4 - STA 56+46.03, 36.84' LT												1																	
DMH1 - STA 66+72.77, 26.67' LT																													SEE NOTE A
DMH2 - STA 66+11.41, 26.68' LT																													SEE NOTE A
DMH3 - STA 63+50.76, 26.69' LT																													SEE NOTE A
DMH5 - STA 58+80.52, 25.67' LT																													SEE NOTE A
DMH6 - STA 56+39.31, 25.52' LT																													SEE NOTE A
UNDERDRAIN																													
STA 63+54.62, 37.63' LT TO CB1																						255							
STA 62+83.39, 38.18' LT TO CB2																						64							
STA 61+38.71, 39.43' LT TO CB3																						258							
STA 58+75.22, 38.62' LT TO CB4																						229							
STA 56+41.76, 36.69' LT TO EXIST. CB																						309							

NOTE A: MODIFY CATCH BASIN FRAME & COVER TO MANHOLE FRAME & COVER

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. CORRILL		10-12-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

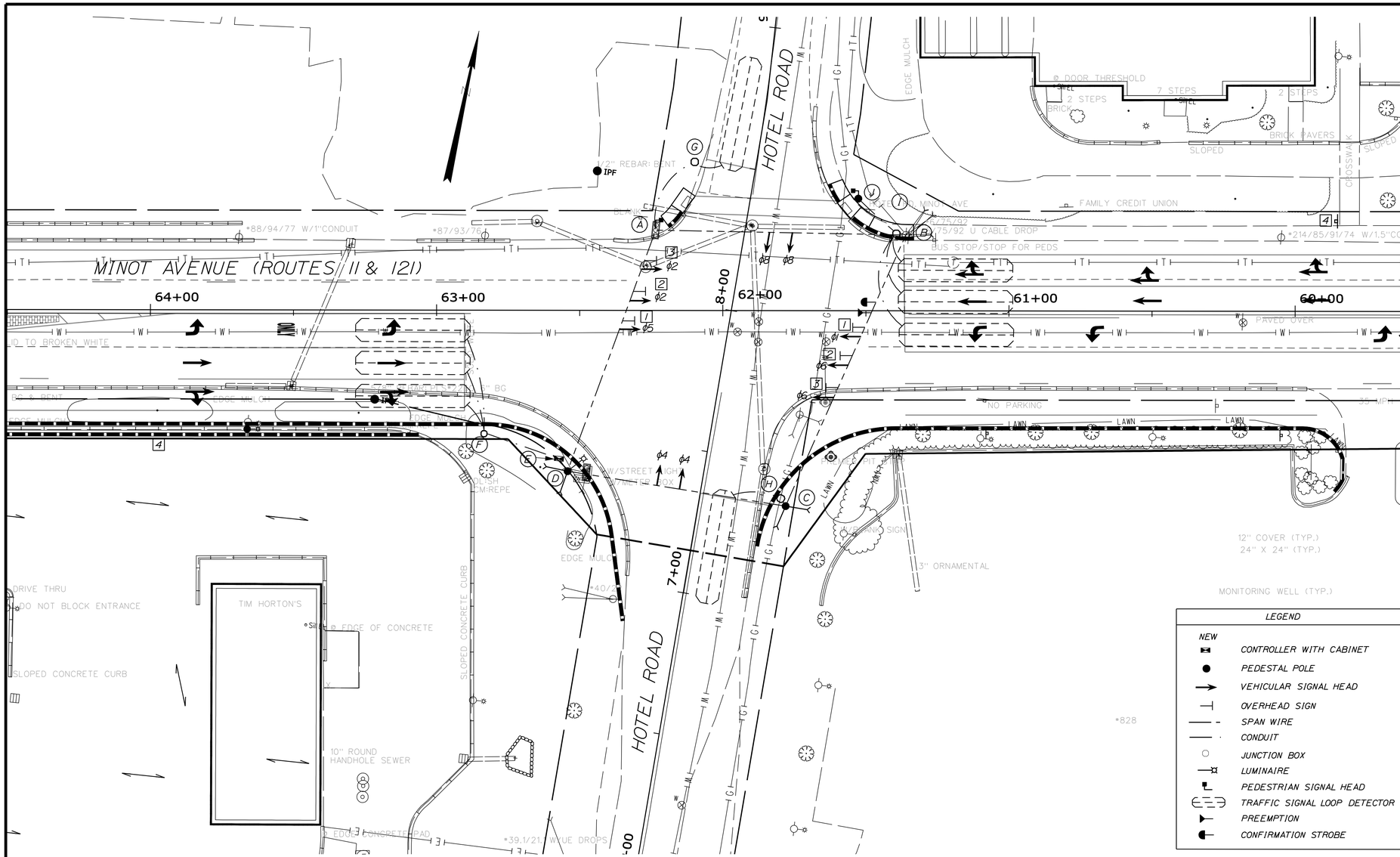
DRAINAGE SHEET

SHEET NUMBER

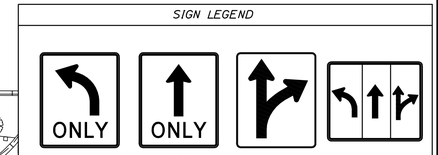
4

OF 21

Filename: ...\highway\msta\004_Drainage.dgn Division: HIGHWAY Username: common Date:10/13/2011



SIGN LEGEND



R3-5L 30"x36"	R3-5 30"x36"	R3-6R 30"x36"	R3-8B 36"x30"
1	2	3	4

NOTES:

1. THE CONTRACTOR MUST MEET ALL UTILITY REQUIREMENTS FOR THE SERVICE CONNECTION.

2. ALL SPLICES WILL BE MADE IN THE CABINETS OR POLES MEETING MAINEDOT SPECIFICATIONS.

3 THE BOTTOM OF THE HOUSING OF THE SIGNAL FACE SHALL BE AT LEAST 16 FEET BUT NOT MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.

4. ALL MATERIALS AND WORK COMPLETED UNDER THIS CONTRACT SHALL CONFORM TO THE MAINEDOT STANDARD SPECIFICATIONS. SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS AND WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

5. TWO COPIES OF THE SIGNAL CONTROLLER MANUAL AND TWO COPIES OF AS-BUILT PLANS SHALL BE LEFT IN THE CONTROLLER CABINET. ONE ELECTRONIC COPY OF EACH SHALL BE PROVIDED TO THE TOWN ELECTRICIAN.

6. CONTRACTOR SHALL PROVIDE AND INSTALL ALL JUNCTION BOXES.

7. UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR FINDING EXACT LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT DIG SAFE AT 1-888-DIG-SAFE.

8. CONTRACTOR SHALL CONTACT AND COORDINATE WITH UTILITIES UPON AWARD OF THE CONTRACT. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES SO THAT THE TRAFFIC SIGNAL INSTALLATION IS DONE AFTER THE UTILITIES HAVE BEEN RELOCATED BY THE RESPECTIVE UTILITY COMPANIES.

9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING MAINEDOT AND CITY OPENING PERMITS. IF NECESSARY.

10. IT IS THE INTENT OF THIS WORK TO HAVE A COMPLETE OPERATIONAL, TESTED AND ACCEPTED TRAFFIC SIGNAL UPON COMPLETION OF THIS CONTRACT.

11. THE PROPOSED TRAFFIC SIGNAL TIMING AND PHASING PLAN SHALL BE INPUT BY THE CONTRACTOR UNDER OBSERVATION BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE ENGINEER.

12. ALL PUSH BUTTONS SHALL BE LOCATED WITHIN 1' FROM THE EDGE OF THE SIDEWALK. IF PLACED GREATER THAN 1' FROM THE SIDEWALK, CONTRACTOR SHALL PAVE AN APRON TO THE BUTTON FOR A DISTANCE NOTTO EXCEED 5'.

13. ALL TRAFFIC SIGNALS SHALL BE 12" INCH DIAMETER WITH L.E.D. LENSES AND SHALL HAVE 4 INCH BACK PLATES.

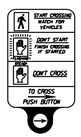
14. ALL LOOPS SHALL BE 6'x40' QUADRA POLE LOOPS.

LEGEND

NEW

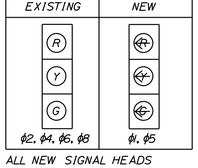
- CONTROLLER WITH CABINET
- PEDESTAL POLE
- VEHICULAR SIGNAL HEAD
- OVERHEAD SIGN
- SPAN WIRE
- CONDUIT
- JUNCTION BOX
- LUMINAIRE
- PEDESTRIAN SIGNAL HEAD
- TRAFFIC SIGNAL LOOP DETECTOR
- PREEMPTION
- CONFIRMATION STROBE

ACCESSIBLE PEDESTRIAN SIGNALS (APS)



CAMPBELL COMPANY ADVISOR APS A912 OR APPROVED EQUAL

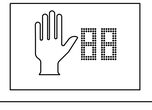
TRAFFIC SIGNAL HEADS



ALL NEW SIGNAL HEADS 12" L.E.D. WITH BACK PLATES

PEDESTRIAN SIGNAL HEADS

ALL SIGNAL HEADS SHALL BE GELCORE MODEL NO. PS7-CFC9-01A OR TASSIMCO MODEL* PLS-160 OR APPROVED EQUAL



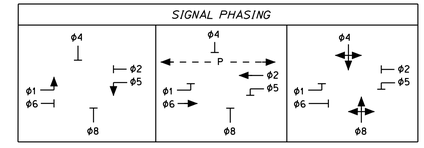
EQUIPMENT SCHEDULE

DESIGNATION	FATIGUE CATEGORY	ITEM	DESCRIPTION
A		EXISITNG STRAIN POLE	SIGNAL HEAD, LANE USE SIGNS, SPAN WIRE, LOWER TETHER, PEDESTRIAN HEAD, PUSH BUTTON, AND SIGN.
B		EXISTING UTILITY POLE	SIGNAL HEADS, SPAN WIRE, LOWER TETHER, EXISTING LUMINAIRE WITH MONGOOSE LIGHT FIXTURE, EXISTING PRE-EMPTION
C		WOOD POLE	SIGNAL HEADS, SPAN WIRE, LOWER TETHER, LANE USE SIGNS, 250W LUMINAIRE WITH MONGOOSE LIGHT FIXTURE, EXISTING PRE-EMPTION
D		WOOD POLE	SIGNAL HEADS, SPAN WIRE, LOWER TETHER, 250W LUMINAIRE WITH MONGOOSE LIGHT FIXTURE
E		CONTROLLER CABINET	CABINET WITH BASE EXTENSION AND METER ON CONCRETE FOUNDATION
F, G, H, & I		JUNCTION BOX	PRECAST CONCRETE
J		PEDESTAL POLE	PEDESTRIAN HEAD AND PUSH BUTTON

CONDUIT SCHEDULE

RUN	CENTER TO CENTER (LINEAR FEET)	COMMENTS
A-G	28 FT	1.5 IN PVC
B-I	2 FT	2 IN PVC
D-E	6 FT	2 IN STEEL
E-F	27 FT	2 IN PVC
H-C	2 FT	1.5 IN PVC
I-J	17 FT	2 IN PVC

SIGNAL PHASING



SIGNAL TIMING

PHASE	1	2	3	4	5	6	7	8
MINIMUM INITIAL	4	8	-	4	4	8	-	4
PASSAGE TIME	3	3	-	3	3	3	-	3
MAXIMUM GREEN	20	34	-	34	20	34	-	34
YELLOW	3	3	-	3	3	3	-	3
ALL RED	1	3	-	2	1	3	-	2
FLASH	R	Y	-	R	R	Y	-	R
PHASE RECALL	-	SOFT	-	-	-	SOFT	-	-
WALK	-	5	-	-	-	-	-	-
PEDESTRIAN CLEARANCE	-	15	-	-	-	-	-	-
MEMORY	-	-	-	-	-	-	-	-
DETECTOR MODE	PR	PR	-	PR	PR	PR	-	PR
DETECTOR DELAY	-	-	-	-	-	-	-	-

PLAN

20 0 20 40

SCALE: 1"=20'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	S. SMITH	
DESIGN-DETAILED	D. BURGESS	05-08-09
CHECKED-REVIEWED	R. NORWOOD	XX-XX-XX
DESIGN2-DETAILED2	T. CORRILL	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

TRAFFIC SIGNAL PLAN

SHEET NUMBER

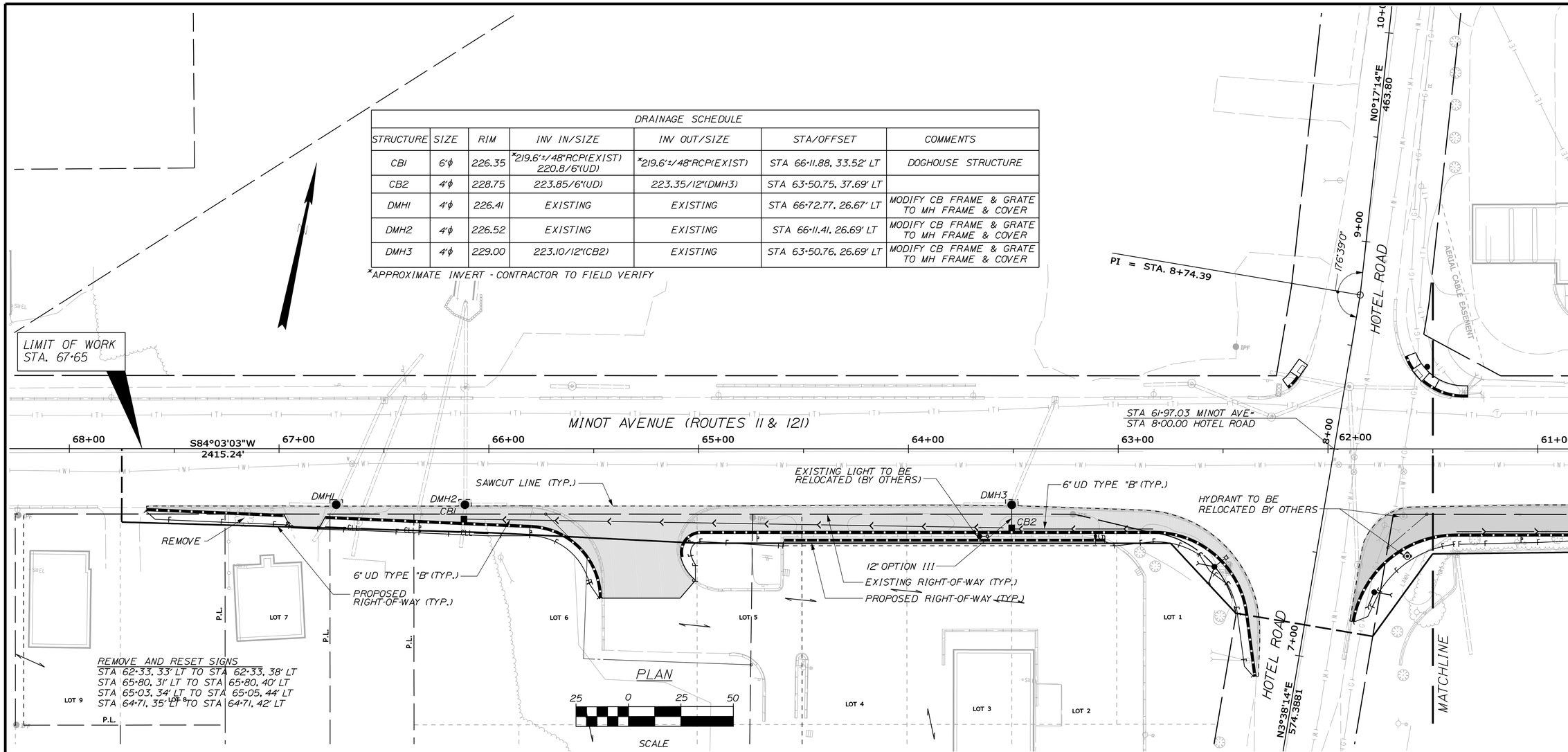
5

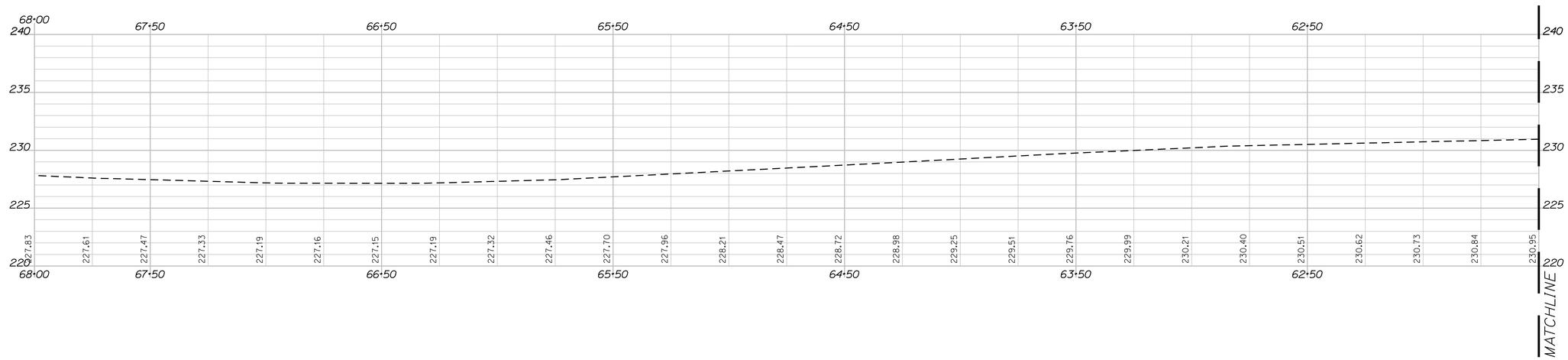
OF 18

Filename: ...\HIGHWAY\MSTA\005_Signal1.dgn Division: HIGHWAY Username: rhobe.moulton Date:11/21/2011

DRAINAGE SCHEDULE						
STRUCTURE	SIZE	RIM	INV IN/SIZE	INV OUT/SIZE	STA/OFFSET	COMMENTS
CBI	6'ϕ	226.35	*219.6'±/48"RCP(EXIST) 220.8/6"(UD)	*219.6'±/48"RCP(EXIST)	STA 66+11.88, 33.52' LT	DOGHOUSE STRUCTURE
CB2	4'ϕ	228.75	223.85/6"(UD)	223.35/12"(DMH3)	STA 63+50.75, 37.69' LT	
DMHI	4'ϕ	226.41	EXISTING	EXISTING	STA 66+72.77, 26.67' LT	MODIFY CB FRAME & GRATE TO MH FRAME & COVER
DMH2	4'ϕ	226.52	EXISTING	EXISTING	STA 66+11.41, 26.69' LT	MODIFY CB FRAME & GRATE TO MH FRAME & COVER
DMH3	4'ϕ	229.00	223.10/12"(CB2)	EXISTING	STA 63+50.76, 26.69' LT	MODIFY CB FRAME & GRATE TO MH FRAME & COVER

*APPROXIMATE INVERT - CONTRACTOR TO FIELD VERIFY





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	S. SMITH	
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CHECKED-REVIEWED	T. CORRILL	XX-XX-XX
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
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REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

PLAN & PROFILE

SHEET NUMBER

6

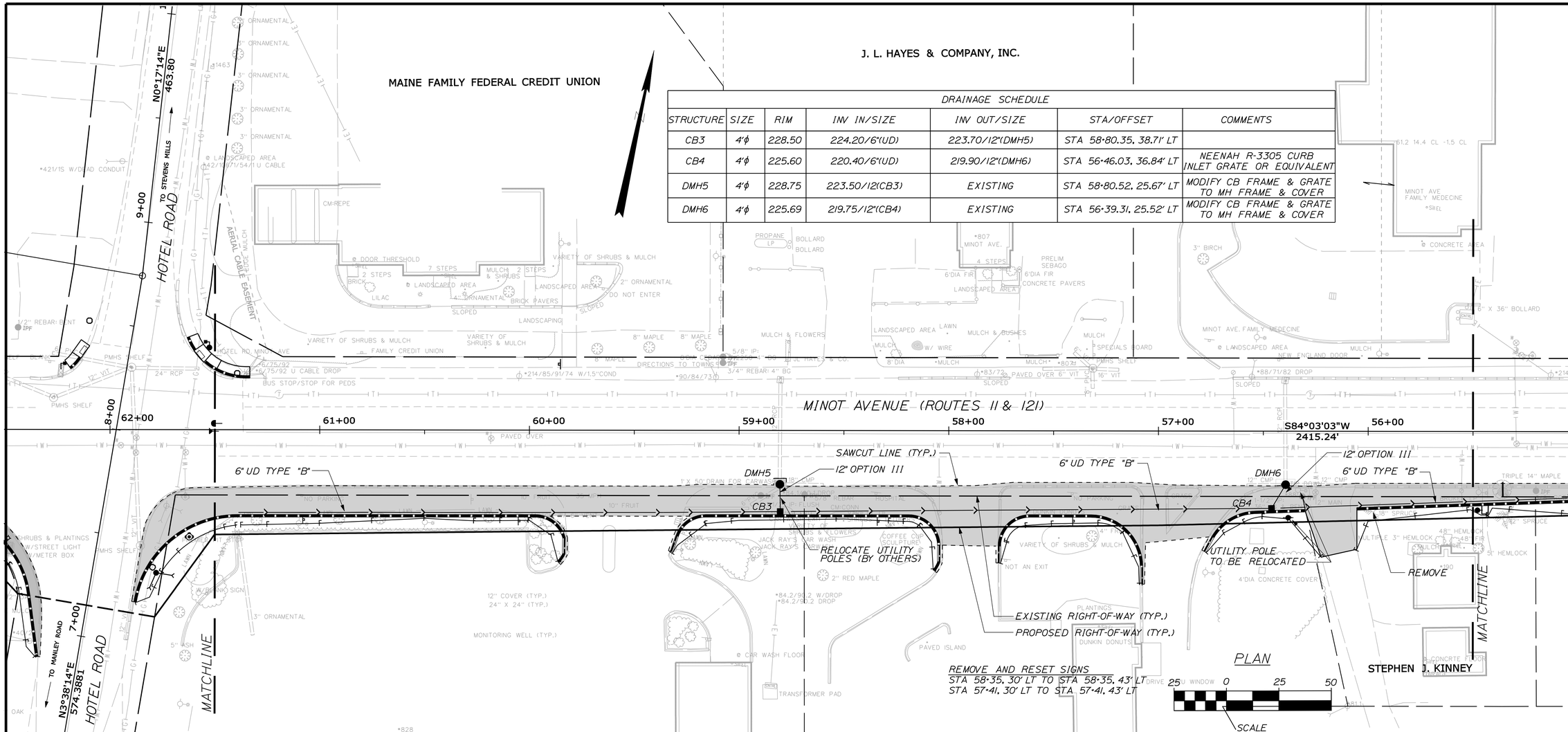
OF 18

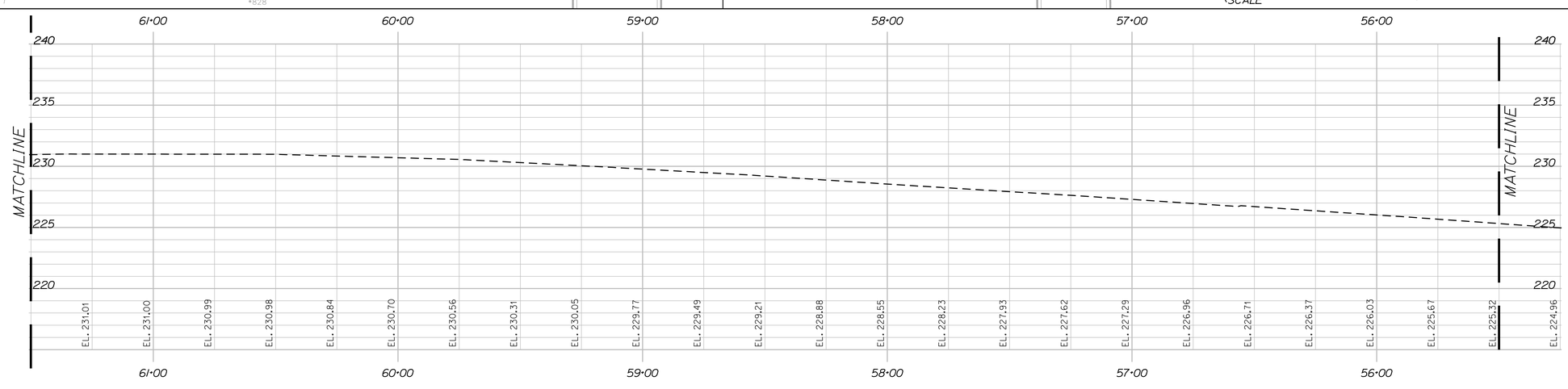
Filename: ...\HIGHWAY\MSTA\006_HDPlan1.dgn Division: HIGHWAY Username: rhobe.moulton Date:12/5/2011

J. L. HAYES & COMPANY, INC.

MAINE FAMILY FEDERAL CREDIT UNION

DRAINAGE SCHEDULE						
STRUCTURE	SIZE	RIM	INV IN/SIZE	INV OUT/SIZE	STA/OFFSET	COMMENTS
CB3	4'ϕ	228.50	224.20/6"(UD)	223.70/12"(DMH5)	STA 58+80.35, 38.71' LT	
CB4	4'ϕ	225.60	220.40/6"(UD)	219.90/12"(DMH6)	STA 56+46.03, 36.84' LT	NEENAH R-3305 CURB INLET GRATE OR EQUIVALENT
DMH5	4'ϕ	228.75	223.50/12(CB3)	EXISTING	STA 58+80.52, 25.67' LT	MODIFY CB FRAME & GRATE TO MH FRAME & COVER
DMH6	4'ϕ	225.69	219.75/12"(CB4)	EXISTING	STA 56+39.31, 25.52' LT	MODIFY CB FRAME & GRATE TO MH FRAME & COVER





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

PROJ. MANAGER		BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. CORRILL		XX-XX-XX
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

S. SMITH

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

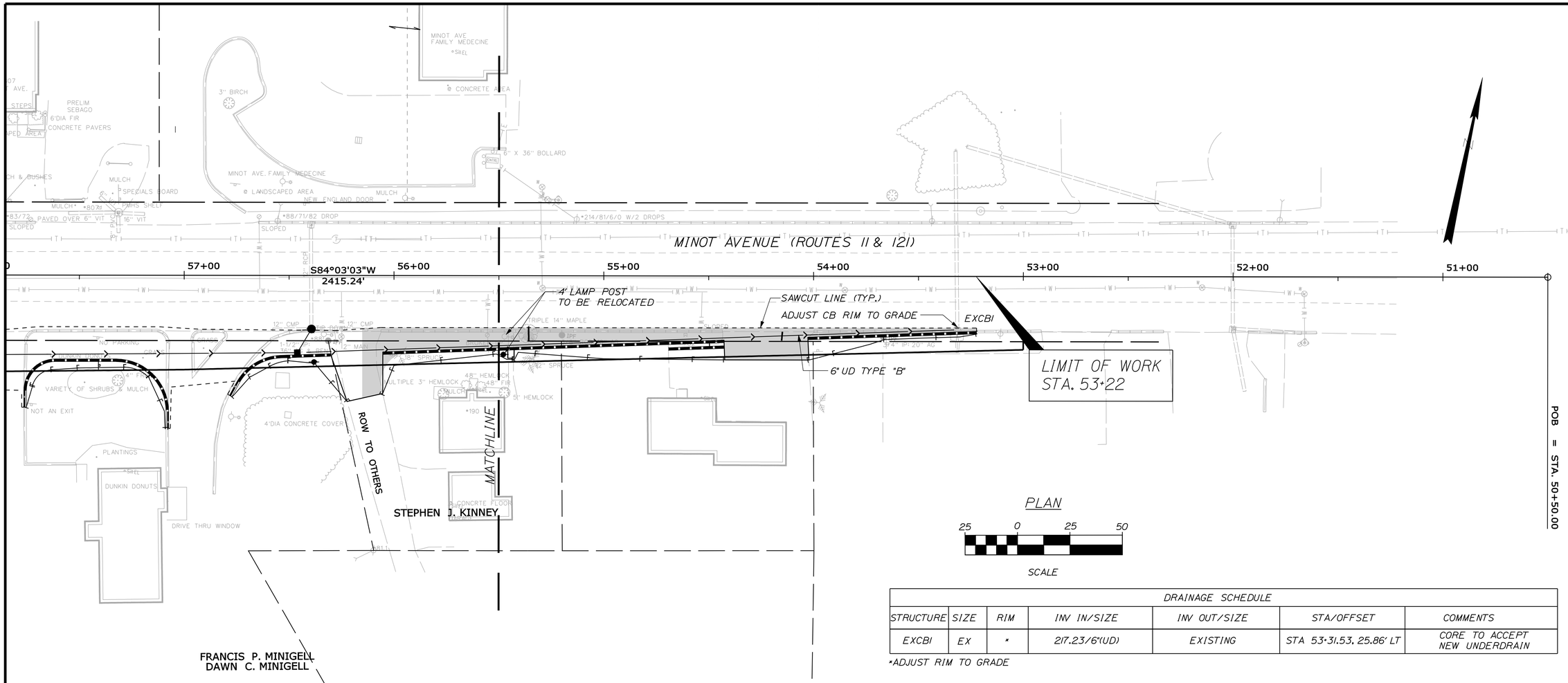
PLAN & PROFILE

SHEET NUMBER

7

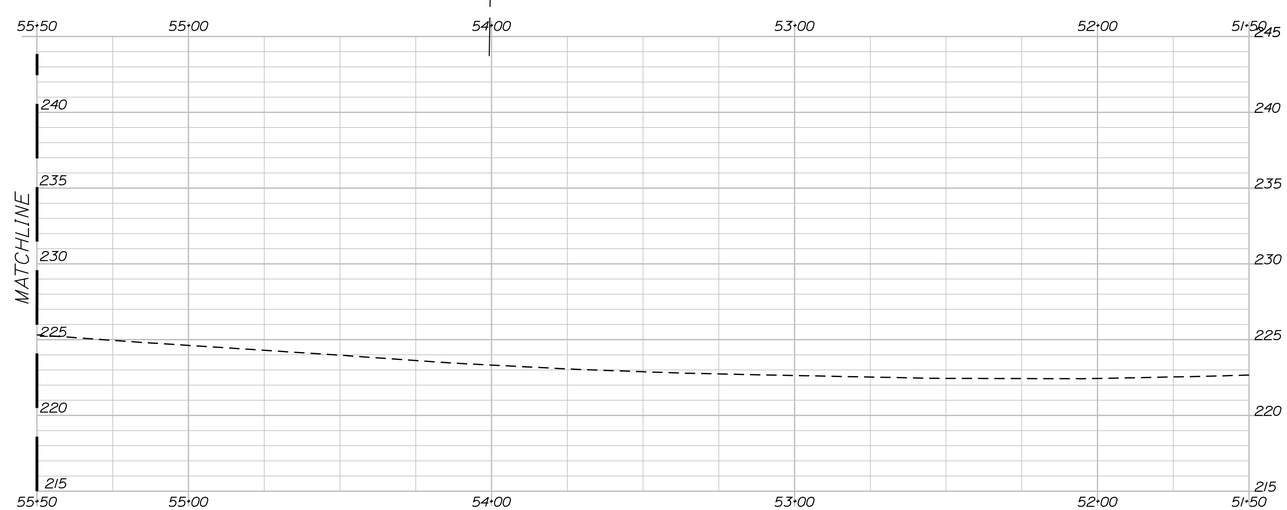
OF 18

Filename: ...\HIGHWAY\MSTA\007_HDPlan2.dgn Division: HIGHWAY Username: rhobe.moulton Date:12/5/2011



DRAINAGE SCHEDULE						
STRUCTURE	SIZE	RIM	INV IN/SIZE	INV OUT/SIZE	STA/OFFSET	COMMENTS
EXCBI	EX	*	217.23/6"(UD)	EXISTING	STA 53+31.53, 25.86' LT	CORE TO ACCEPT NEW UNDERDRAIN

*ADJUST RIM TO GRADE



PROFILE
98037.46_align

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	S. SMITH		
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. CORRILL		XX-XX-XX
DESIGN2-DETAILED2			
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REVISIONS 1			
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REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

PLAN & PROFILE

SHEET NUMBER

8

OF 18

Filename: ...\HIGHWAY\MSTA\008_HDPlan3.dgn Division: HIGHWAY Username: rhobe.moulton Date:11/17/2011

Filename: ...\highway\msta\009_HDPlan4.dgn Division: HIGHWAY Username: common Date:10/13/2011

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

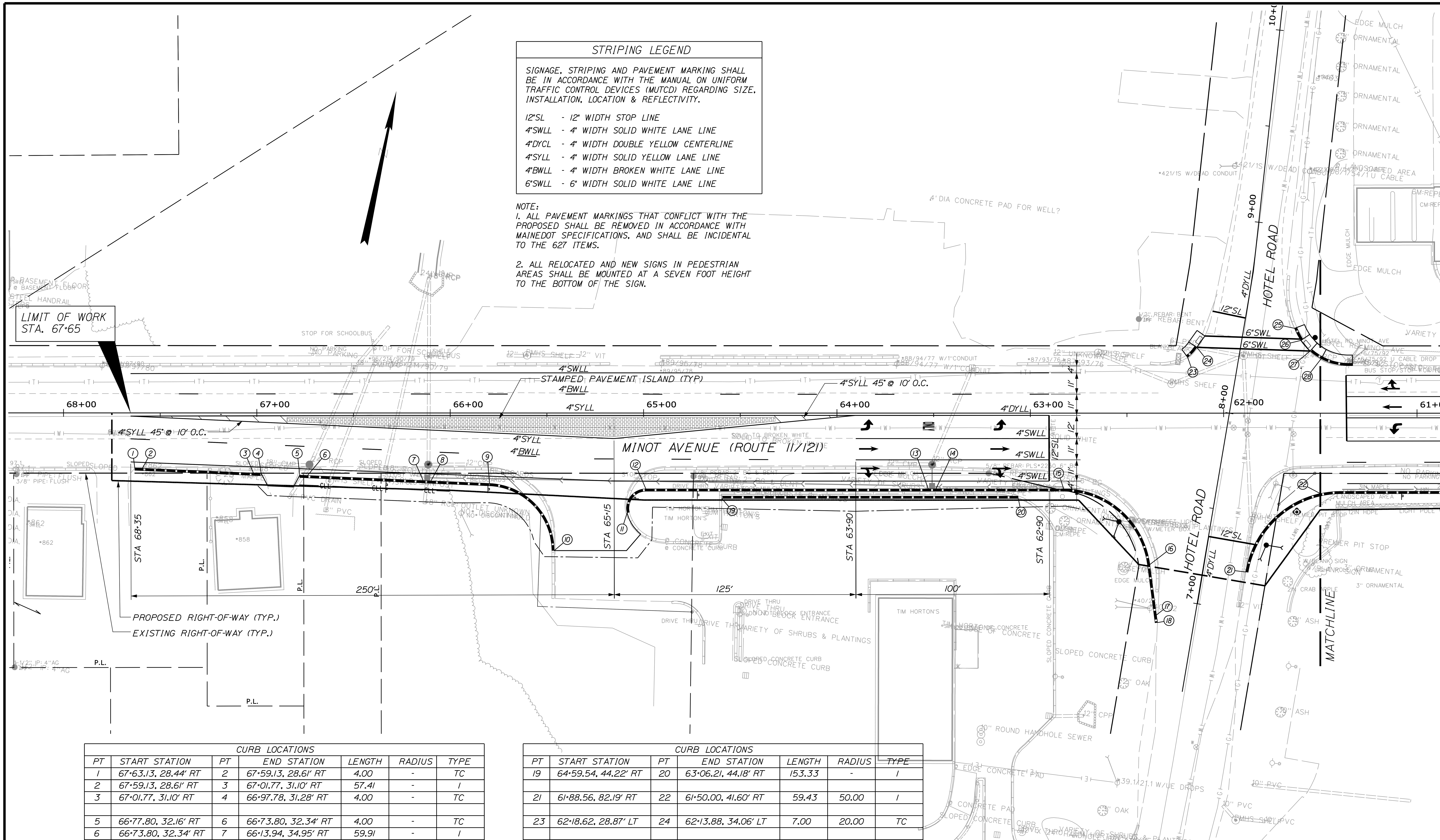
STRIPING LEGEND

SIGNAGE, STRIPING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REGARDING SIZE, INSTALLATION, LOCATION & REFLECTIVITY.

- 12"SL - 12" WIDTH STOP LINE
- 4"SWLL - 4" WIDTH SOLID WHITE LANE LINE
- 4"DYCL - 4" WIDTH DOUBLE YELLOW CENTERLINE
- 4"SYLL - 4" WIDTH SOLID YELLOW LANE LINE
- 4"BWLL - 4" WIDTH BROKEN WHITE LANE LINE
- 6"SWLL - 6" WIDTH SOLID WHITE LANE LINE

NOTE:
1. ALL PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED SHALL BE REMOVED IN ACCORDANCE WITH MAINEDOT SPECIFICATIONS, AND SHALL BE INCIDENTAL TO THE 627 ITEMS.

2. ALL RELOCATED AND NEW SIGNS IN PEDESTRIAN AREAS SHALL BE MOUNTED AT A SEVEN FOOT HEIGHT TO THE BOTTOM OF THE SIGN.



CURB LOCATIONS						
PT	START STATION	PT	END STATION	LENGTH	RADIUS	TYPE
1	67+63.13, 28.44' RT	2	67+59.13, 28.61' RT	4.00	-	TC
2	67+59.13, 28.61' RT	3	67+01.77, 31.10' RT	57.41	-	I
3	67+01.77, 31.10' RT	4	66+97.78, 31.28' RT	4.00	-	TC
5	66+77.80, 32.16' RT	6	66+73.80, 32.34' RT	4.00	-	TC
6	66+73.80, 32.34' RT	7	66+13.94, 34.95' RT	59.91	-	I
7	66+13.94, 34.95' RT	8	66+09.95, 35.13' RT	4.00	-	HS
8	66+09.95, 35.13' RT	9	65+79.66, 36.45' RT	30.32	-	I
9	65+79.66, 36.45' RT	10	65+46.19, 71.17' RT	53.21	35.00	I
11	65+08.51, 51.66' RT	12	64+98.81, 39.23' RT	18.16	10.00	I
12	64+98.81, 39.23' RT	13	63+52.75, 39.19' RT	146.06	-	I
13	63+52.75, 39.19' RT	14	63+48.75, 39.19' RT	4.00	-	HS
14	63+48.75, 39.19' RT	15	62+82.78, 39.18' RT	65.97	-	I
15	62+82.78, 39.18' RT	16	62+38.15, 78.31' RT	64.77	45.00	I
16	62+38.15, 78.31' RT	17	62+34.72, 104.40' RT	26.32	-	I
17	62+34.72, 104.40' RT	18	62+34.20, 108.37' RT	4.00	-	TC

CURB LOCATIONS						
PT	START STATION	PT	END STATION	LENGTH	RADIUS	TYPE
19	64+59.54, 44.22' RT	20	63+06.21, 44.18' RT	153.33	-	I
21	61+88.56, 82.19' RT	22	61+50.00, 41.60' RT	59.43	50.00	I
23	62+18.62, 28.87' LT	24	62+13.88, 34.06' LT	7.00	20.00	TC
25	61+63.32, 43.89' LT	26	61+60.05, 37.64' LT	7.00	30.00	TC
27	61+55.25, 32.18' LT	28	61+49.57, 28.20' LT	7.00	30.00	TC

TC = TERMINAL CURB
HS = HEADSTONE/CURB INLET

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. GORRILL		10-12-11
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REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

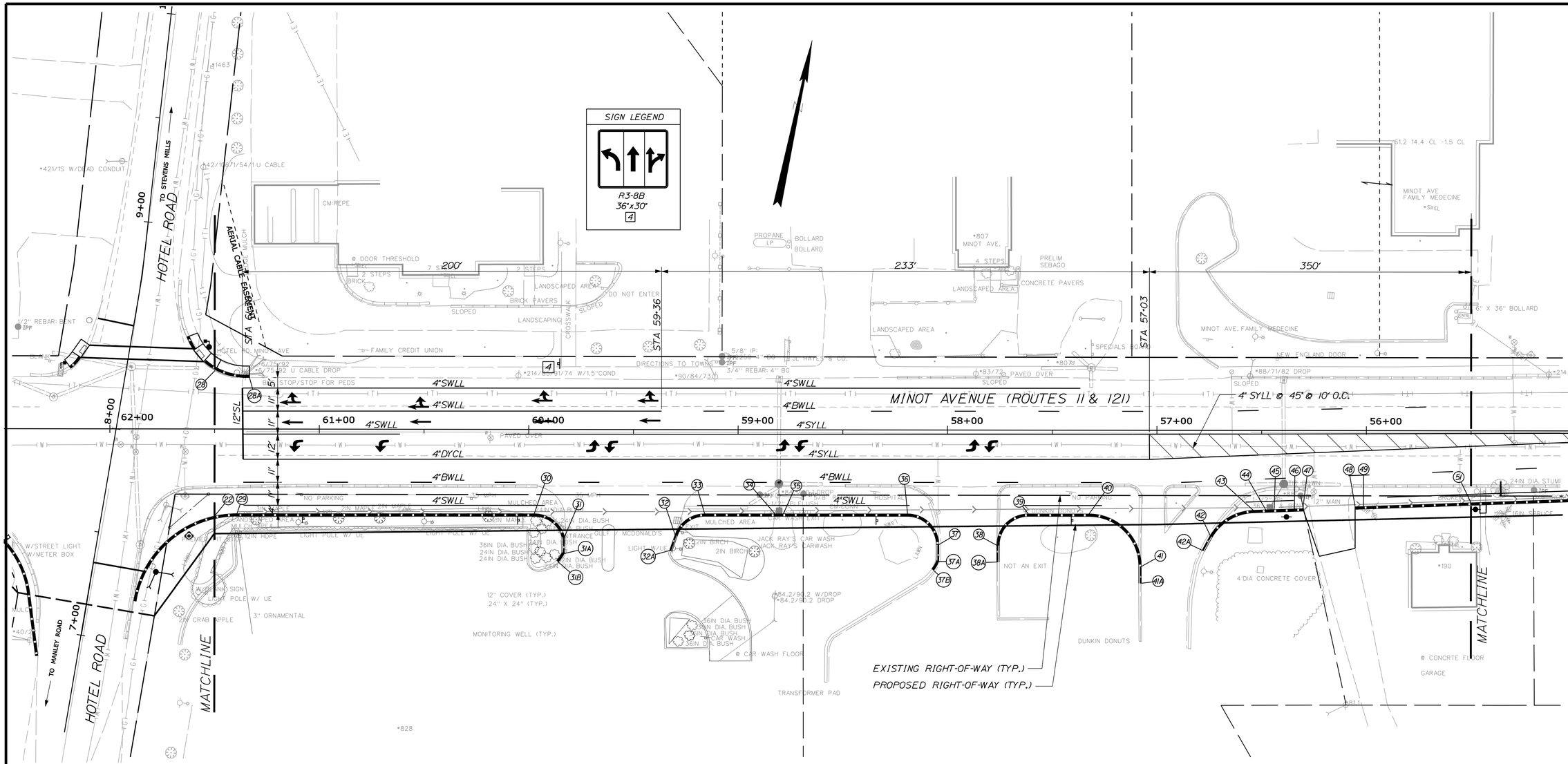
P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD
STRIPING & CURB LAYOUT PLAN

SHEET NUMBER

9



CURB LOCATIONS						
PT	STA LT STATION	PT	END STATION	LENGTH	RADIUS	TYPE
28	61+49.57, 28.20' RT	28A	61+33.36, 24.58' RT	23.77	30.00	I
22	61+50.00, 41.60' LT	29	61+39.30, 40.43' LT	10.78	50.00	I
29	61+39.30, 40.43' LT	30	59+97.25, 40.26' LT	142.00	-	I
30	59+97.25, 40.26' LT	31	59+82.78, 51.26' LT	19.53	15.00	I
31	59+82.78, 51.26' LT	31A	59+82.91, 59.26' LT	8.00	-	CT
31A	59+82.91, 59.26' LT	31B	59+85.76, 63.34' LT	5.00	15.00	3
32A	59+32.67, 57.75' LT	32	59+30.04, 50.20' LT	8.00	-	CT
32	59+26.76, 43.27' LT	33	59+15.91, 40.17' LT	18.48	15.00	I
33	59+17.62, 40.17' LT	34	58+82.34, 40.13' LT	33.57	-	I
34	58+82.34, 40.13' LT	35	58+78.34, 40.13' LT	4.00	-	HS
35	58+78.34, 40.13' LT	36	58+19.05, 40.06' LT	59.29	-	I
36	58+19.05, 40.06' LT	37	58+04.04, 54.75' LT	23.27	15.00	I
37	58+04.04, 54.75' LT	37A	58+04.03, 62.75' LT	8.00	-	CT
37A	58+04.03, 62.75' LT	37B	58+06.48, 67.08' LT	5.00	15.00	3
38A	57+76.40, 63.04' LT	38	57+76.41, 55.04' LT	8.00	-	CT
38	57+76.41, 55.04' LT	39	57+61.43, 40.00' LT	23.59	15.00	I
39	57+61.43, 40.00' LT	40	57+32.38, 40.00' LT	29.04	-	I
40	57+32.38, 40.00' LT	41	57+07.35, 65.05' LT	39.39	25.00	I
41	57+07.35, 65.05' LT	41A	57+07.35, 73.05' LT	8.00	-	CT

CURB LOCATIONS						
PT	STA LT STATION	PT	END STATION	LENGTH	RADIUS	TYPE
42A	56+78.33, 57.28' LT	42	56+74.52, 50.25' LT	8.00	-	CT
42	56+74.52, 50.25' LT	43	56+53.98, 38.13' LT	24.85	25.00	I
43	56+53.98, 38.13' LT	44	56+48.00, 37.92' LT	5.99	-	I
44	56+48.00, 37.92' LT	45	56+44.00, 37.77' LT	4.00	-	HS
45	56+44.00, 37.77' LT	46	56+24.92, 49.84' LT	9.73	20.00	I
46	56+34.28, 37.42' LT	47	56+30.28, 37.28' LT	4.00	-	TC
48	56+05.30, 36.38' LT	49	56+01.30, 36.23' LT	4.00	-	TC
49	56+01.30, 36.23' LT	51	55+50.00, 34.39' LT	51.34	-	I

TC = TERMINAL CURB
HS = HEADSTONE/CURB INLET
CT = CURB TRANSITION SECTION B, TYPE I

STRIPING LEGEND

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12"SL - 12" WIDTH STOP LINE
4"SWLL - 4" WIDTH SOLID WHITE LANE LINE
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NOTE:
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PLAN

25 0 25 50

SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. CORRILL		10-12-11
DESIGN2-DETAILED2			
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REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

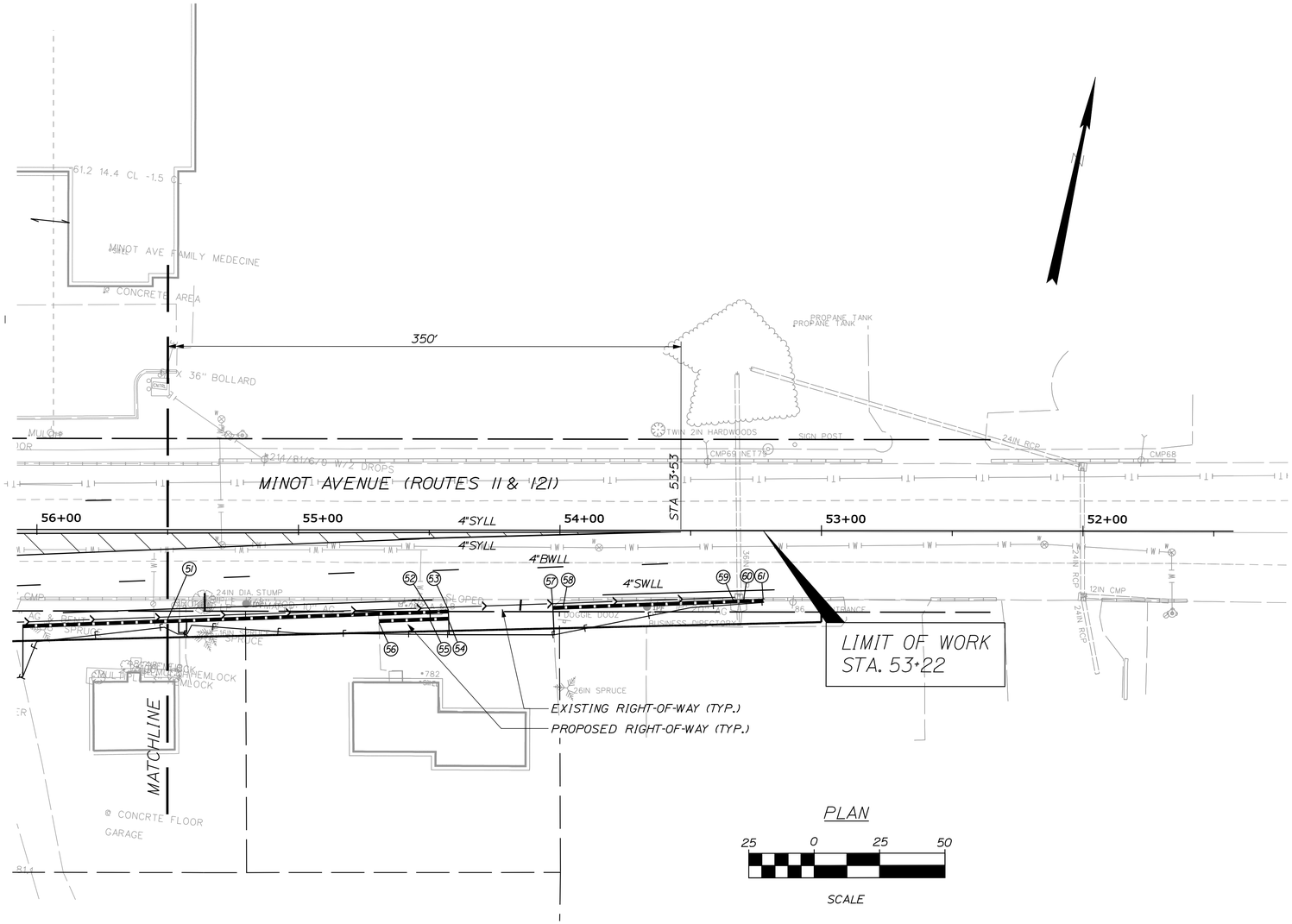
STRIPING & CURB LAYOUT PLAN

SHEET NUMBER

10

OF 21

Filename: ...\highway\mnsta\010_HDPlan5.dgn Division: HIGHWAY Username: common Date:10/13/2011



PLAN

25 0 25 50

SCALE

CURB LOCATIONS						
PT	STA LT STATION	PT	END STATION	LENGTH	RADIUS	TYPE
51	55+50.00, 34.39' LT	52	54+49.65, 30.77' LT	100.41	-	I
52	54+49.65, 30.77' LT	53	54+42.65, 30.52' LT	7.00	-	TC
54	54+42.51, 34.51' LT	55	54+49.50, 34.77' LT	7.00	-	TC
55	54+49.50, 34.77' LT	56	54+69.18, 35.47' LT	19.69	-	I
57	54+02.68, 29.08' LT	58	53+98.68, 28.94' LT	4.00	-	TC
58	53+98.68, 28.94' LT	59	53+33.73, 26.56' LT	65.00	-	I
59	53+33.73, 26.56' LT	60	53+29.73, 26.56' LT	4.00	-	HS
60	53+29.73, 26.56' LT	61	53+22.26, 26.18' LT	7.56	-	I

TC = TERMINAL CURB
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS

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PROJ. MANAGER	P. MACDONALD		
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REVISIONS 1			
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FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE\HOTEL ROAD

STRIPING &
CURB LAYOUT PLAN

SHEET NUMBER
11
OF 21

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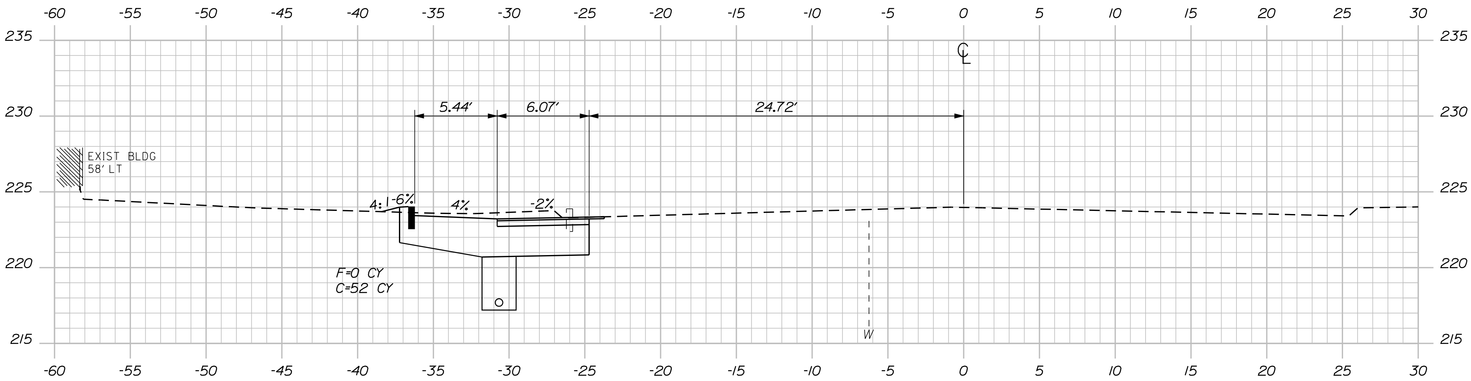

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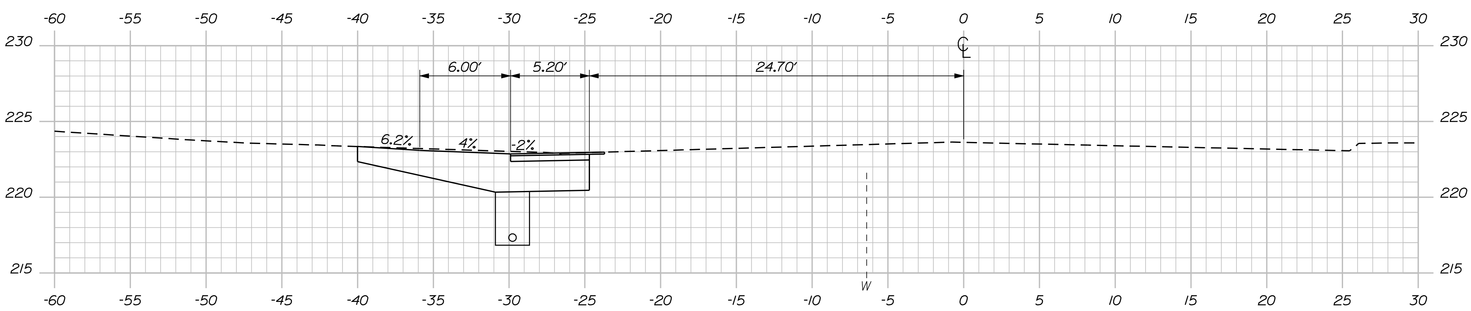

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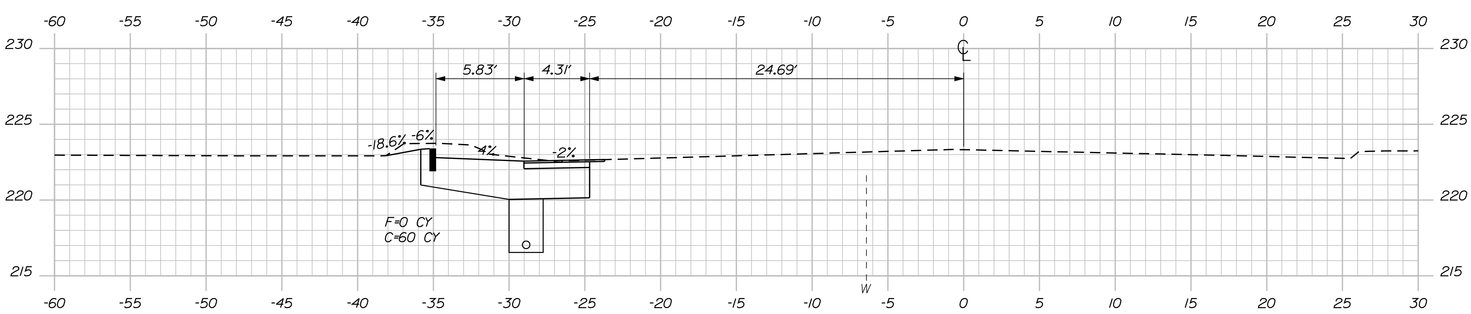

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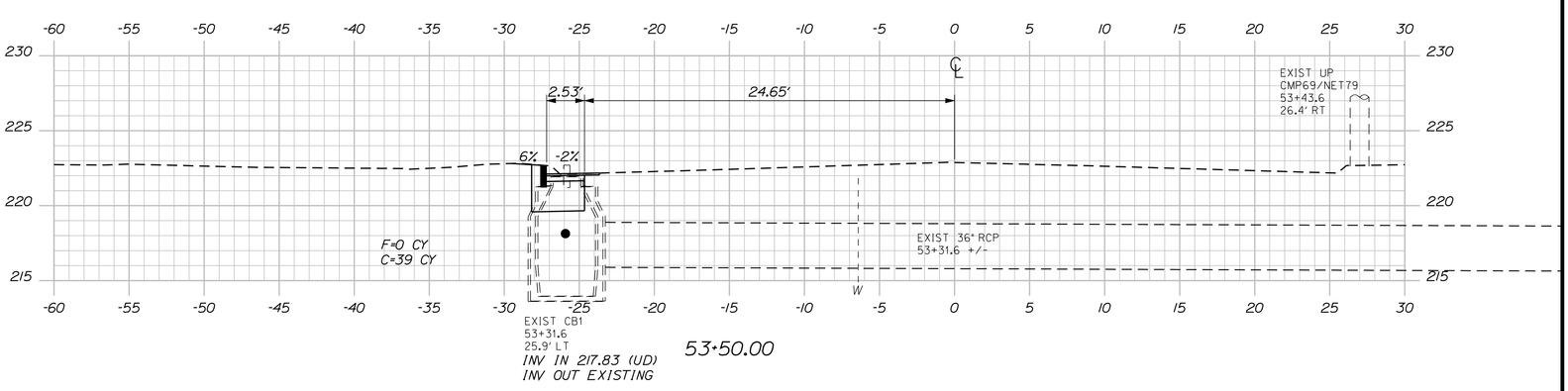

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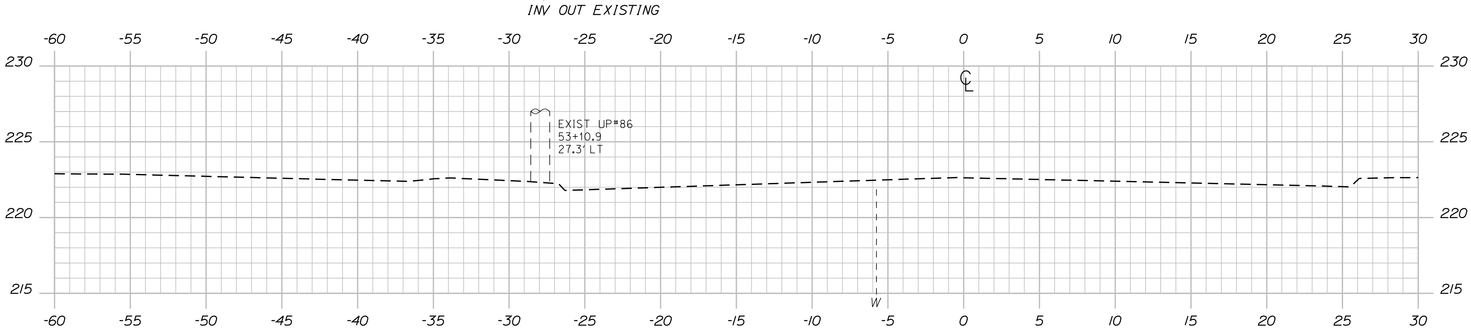


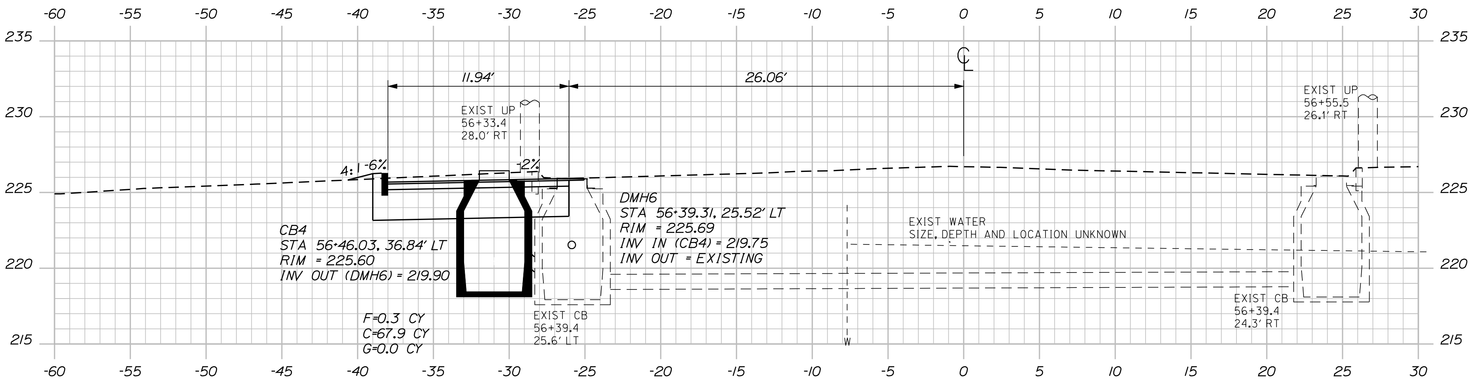
53+00.00

Sta. 53+00.00 to Sta. 55+00.00

SHEET NUMBER 12 OF 21	AUBURN MINOT AVENUE\HOTEL ROAD CROSS SECTIONS	PROJ. MANAGER P. MACDONALD	BY	DATE
		DESIGN-DETAILED R. NORWOOD	D. BURGESS	05-08-09
		CHECKED-REVIEWED T. GORRILL		10-12-11
		DESIGN2-DETAILED2		
		DESIGN3-DETAILED3		
		REVISIONS 1		
		REVISIONS 2		
		REVISIONS 3		
		REVISIONS 4		
		FIELD CHANGES		

SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1566(800)X
PIN 15668.00
HIGHWAY PLANS



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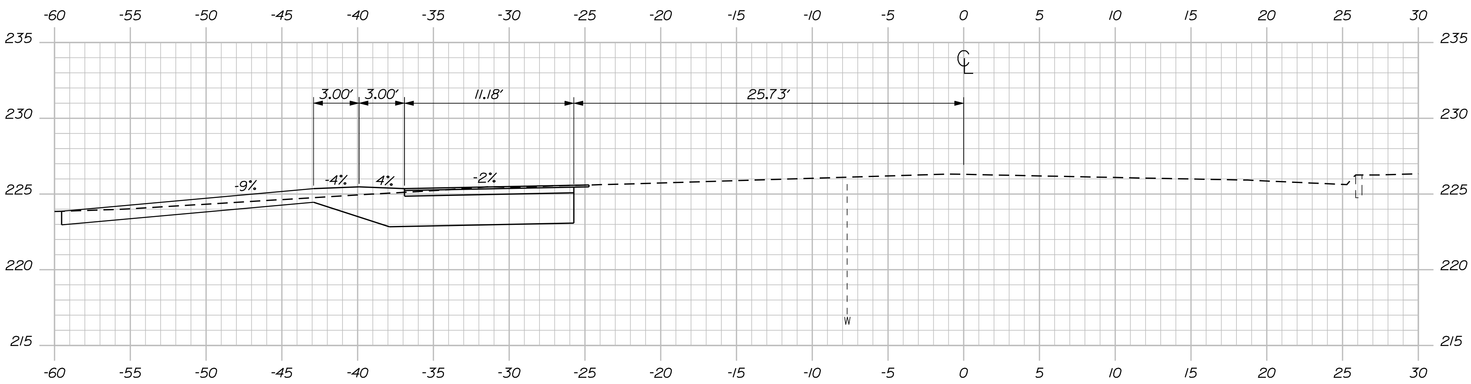

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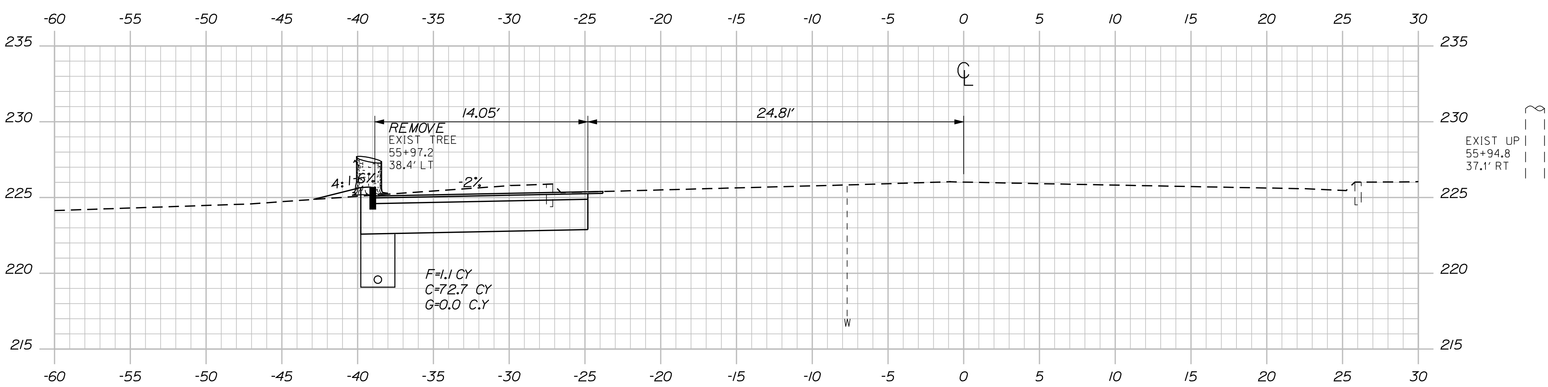

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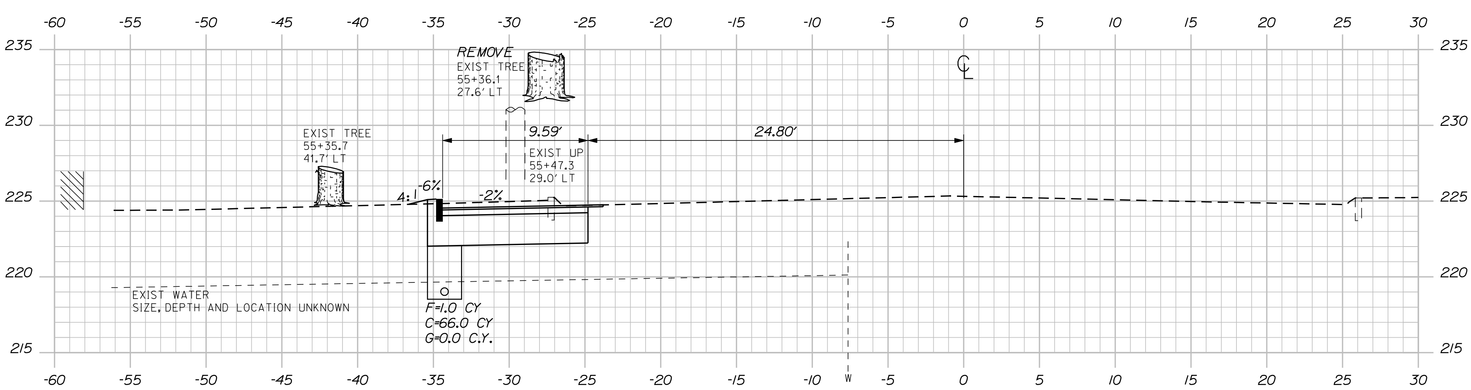

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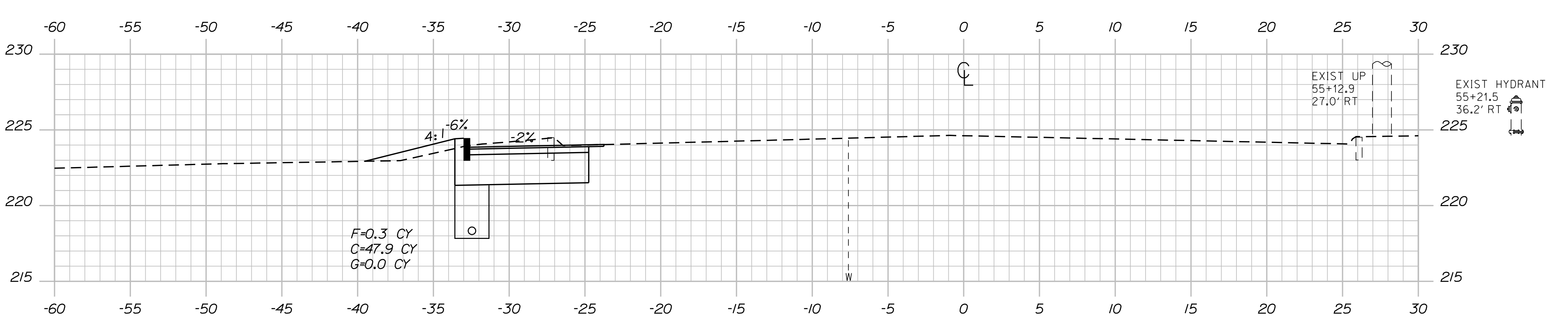


55+00.00

Sta. 55+00.00 to Sta. 56+50.00

SHEET NUMBER 13 OF 18

AUBURN
MINOT AVENUE\HOTEL ROAD

CROSS SECTIONS

PROJ. MANAGER	S. SMITH	BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. GORRILL		XX-XX-XX
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

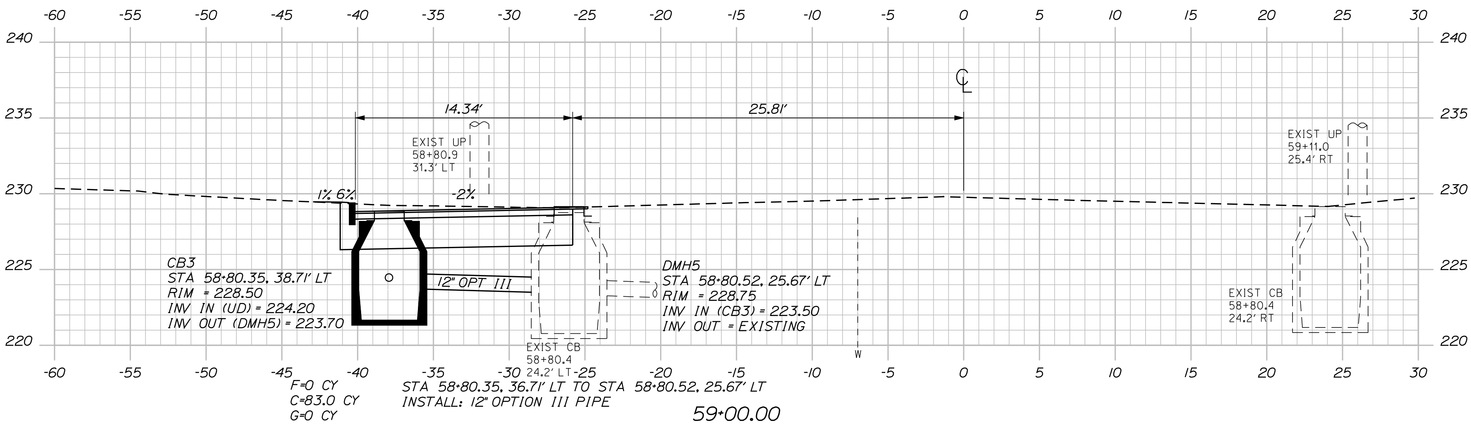
SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS



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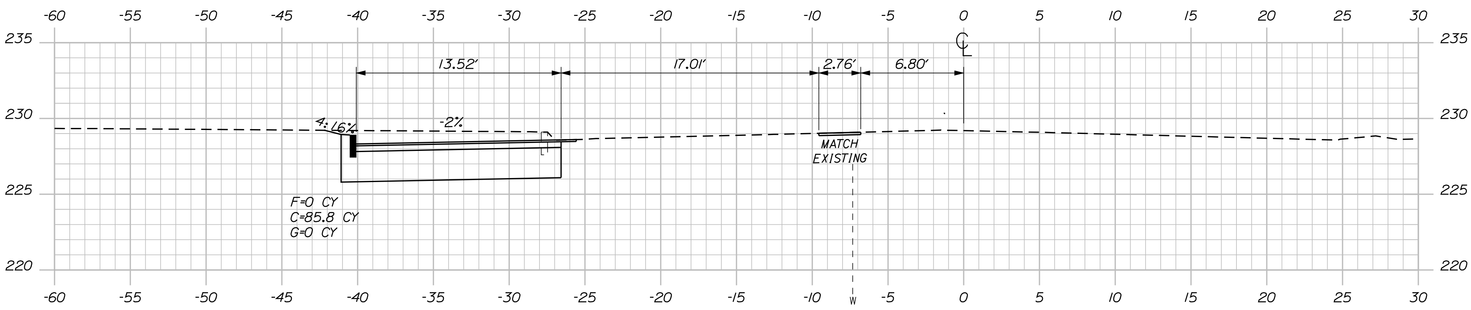

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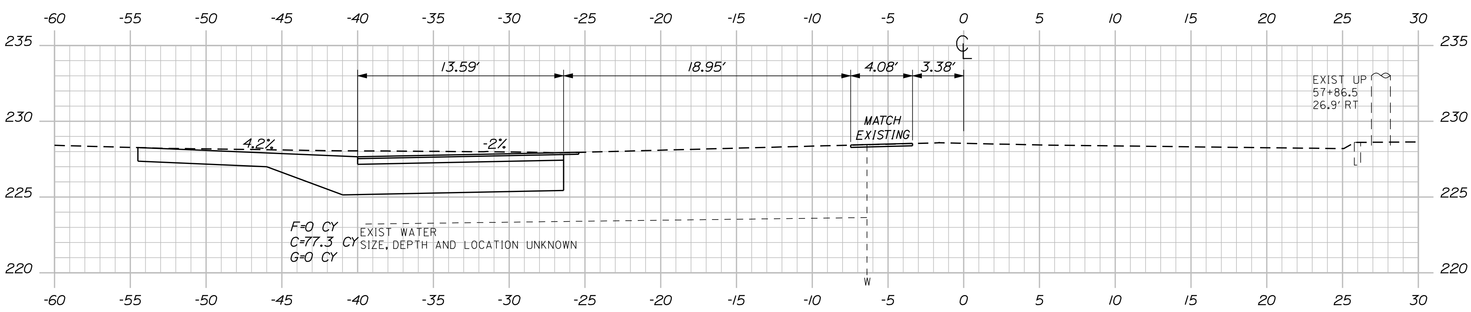

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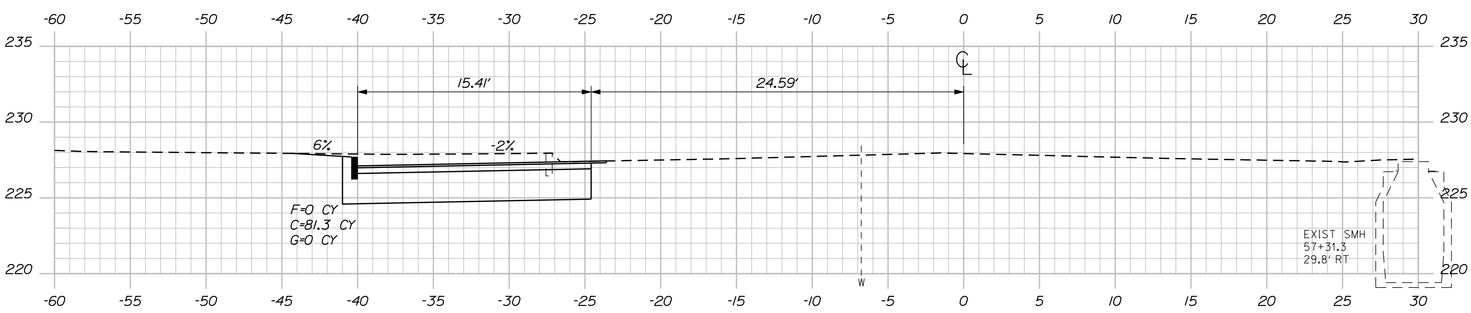

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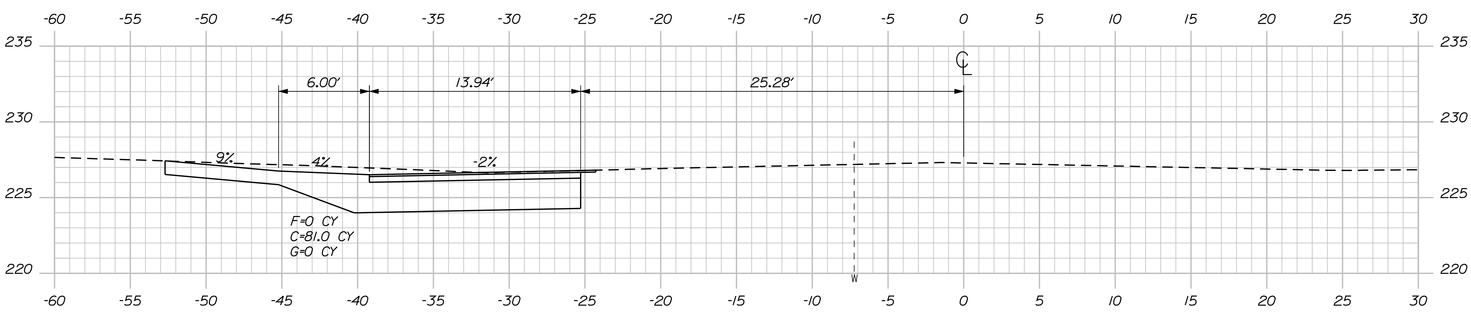


57+00.00

Sta. 57+00.00 to Sta. 59+00.00

SHEET NUMBER 14 OF 18

AUBURN
MINOT AVENUE\HOTEL ROAD

CROSS SECTIONS

PROJ. MANAGER	S. SMITH	BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. GORRILL		XX-XX-XX
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

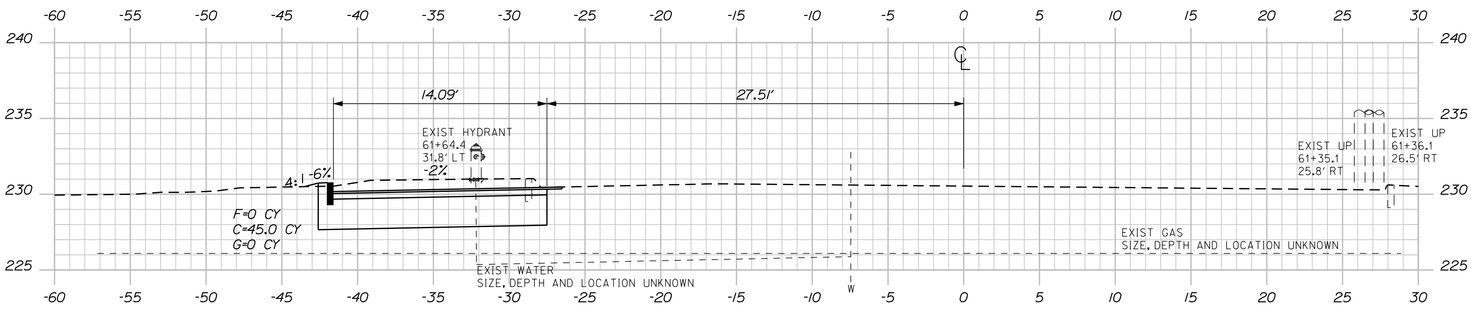
SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS



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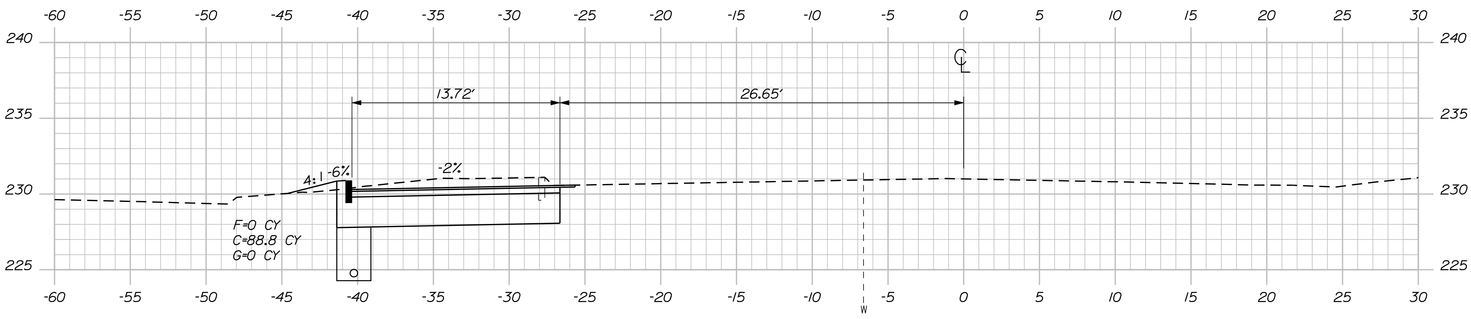

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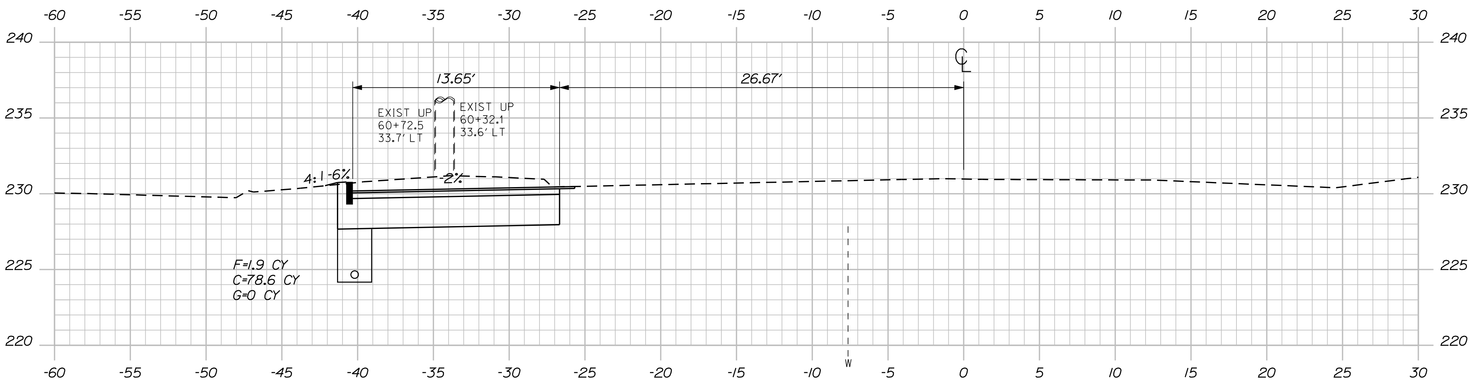

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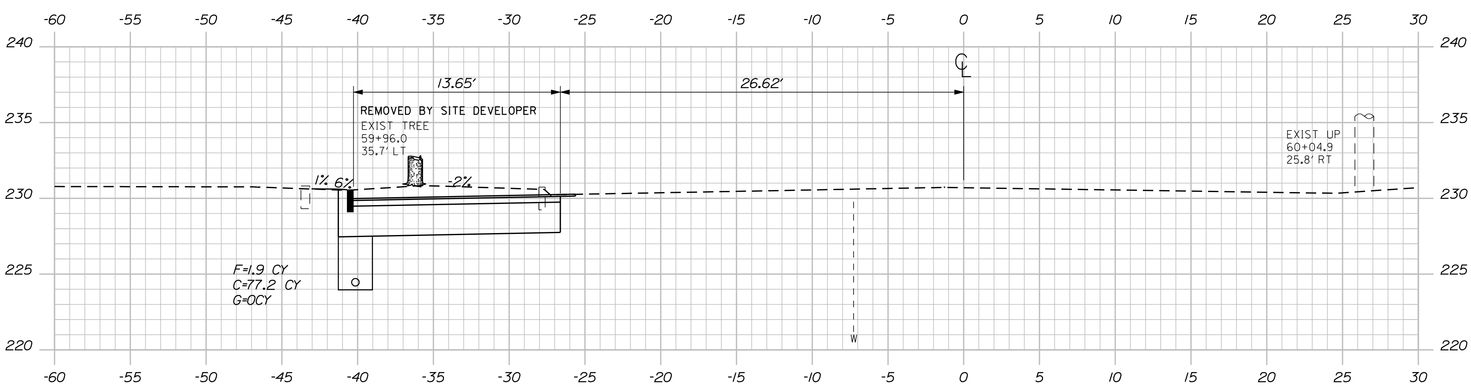

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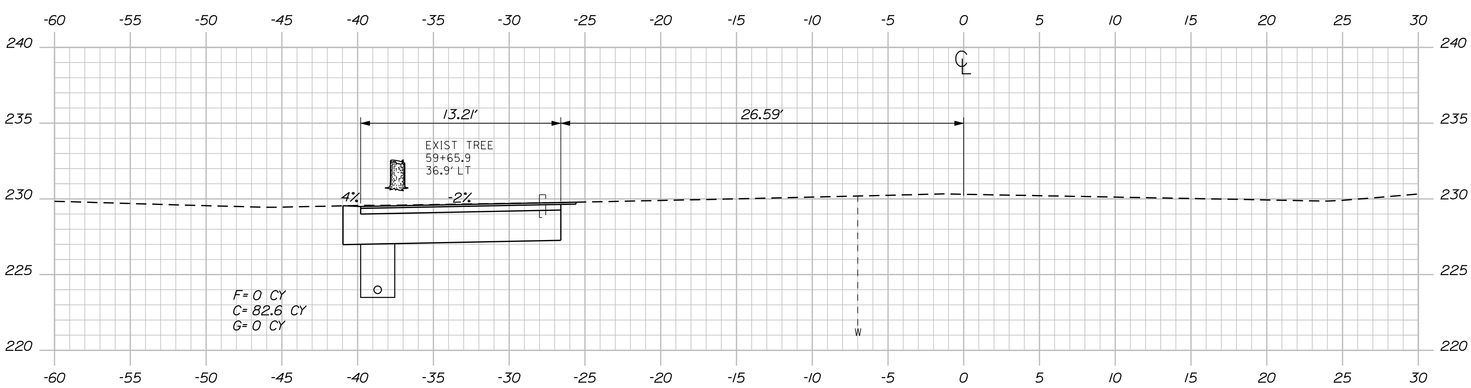


59+50.00

Sta. 59+50.00 to Sta. 61+50.00

SHEET NUMBER 15 OF 21

AUBURN
MINOT AVENUE\HOTEL ROAD

CROSS SECTIONS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. GORRILL		10-12-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

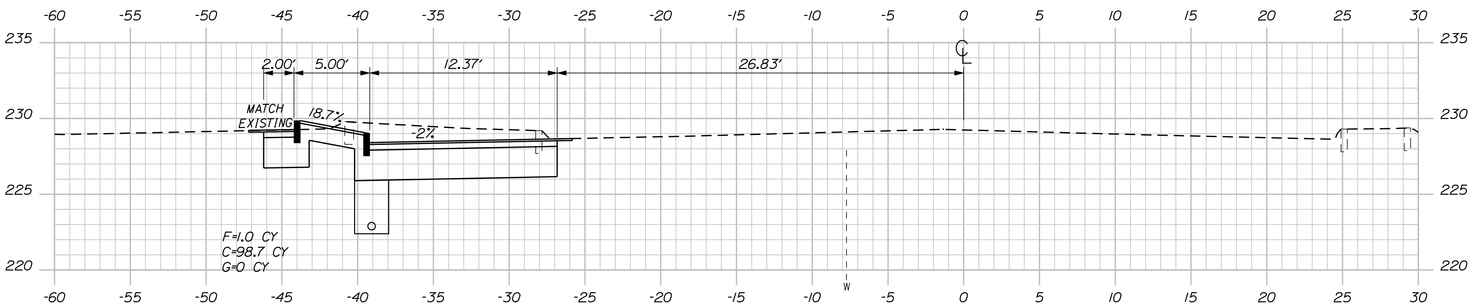
SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS



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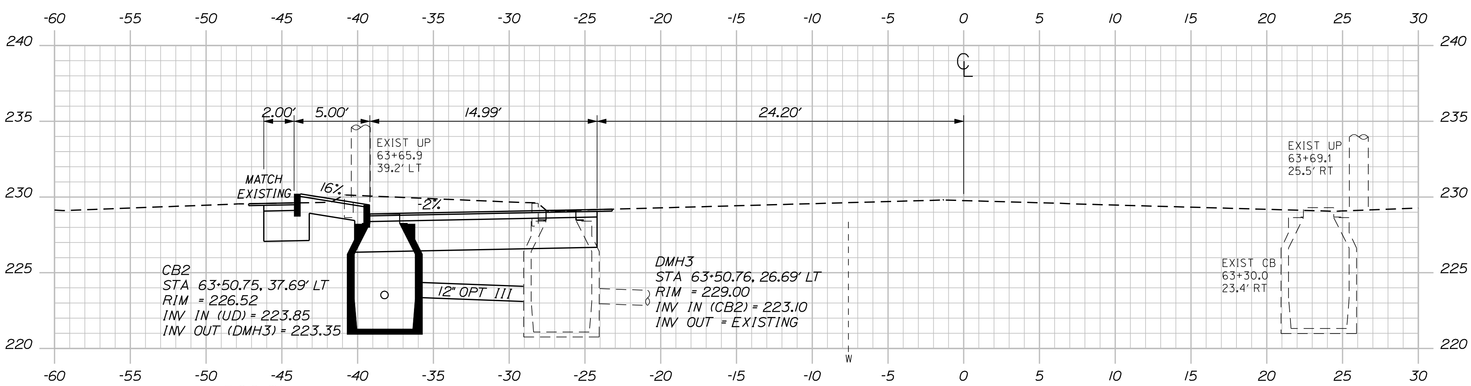

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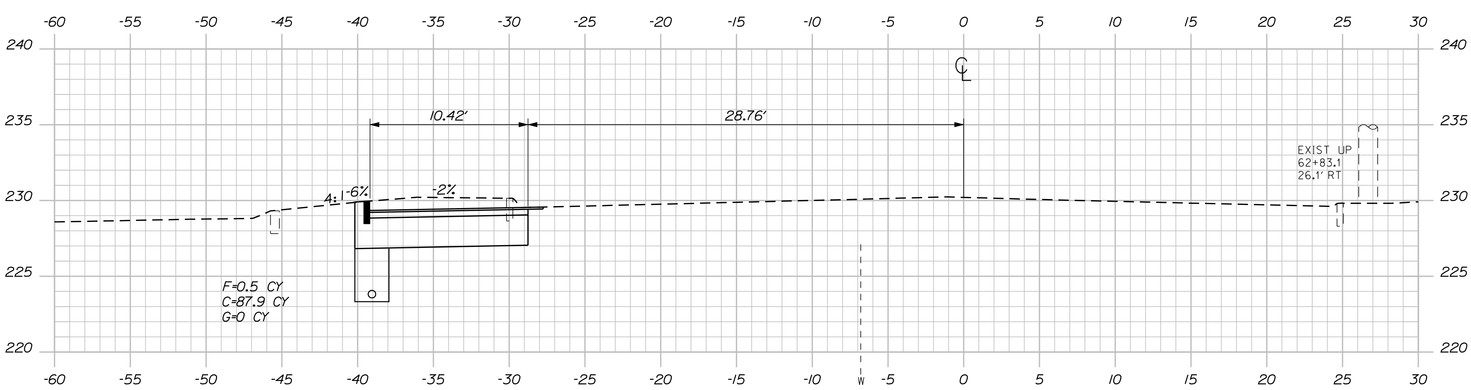

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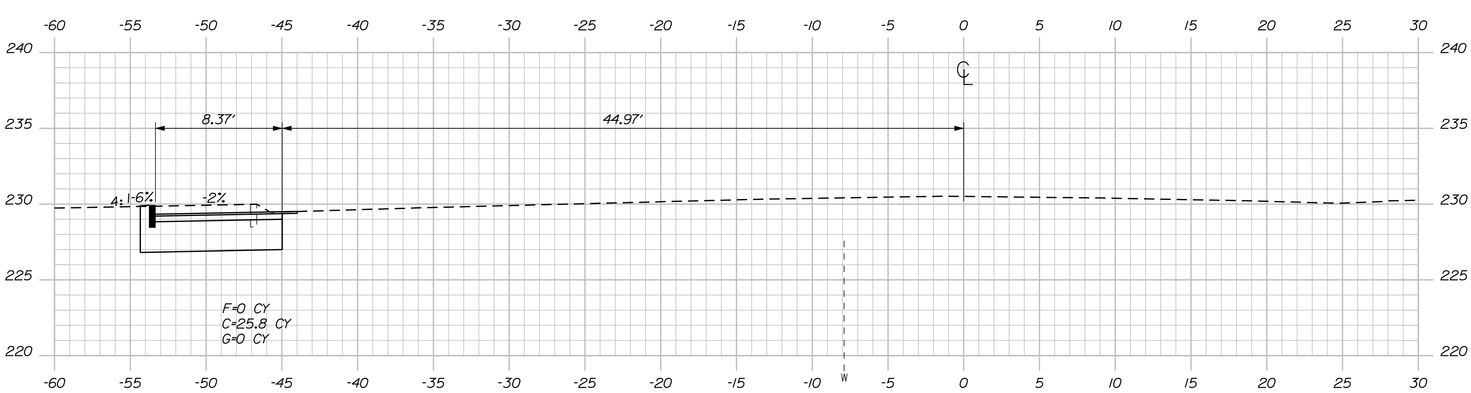

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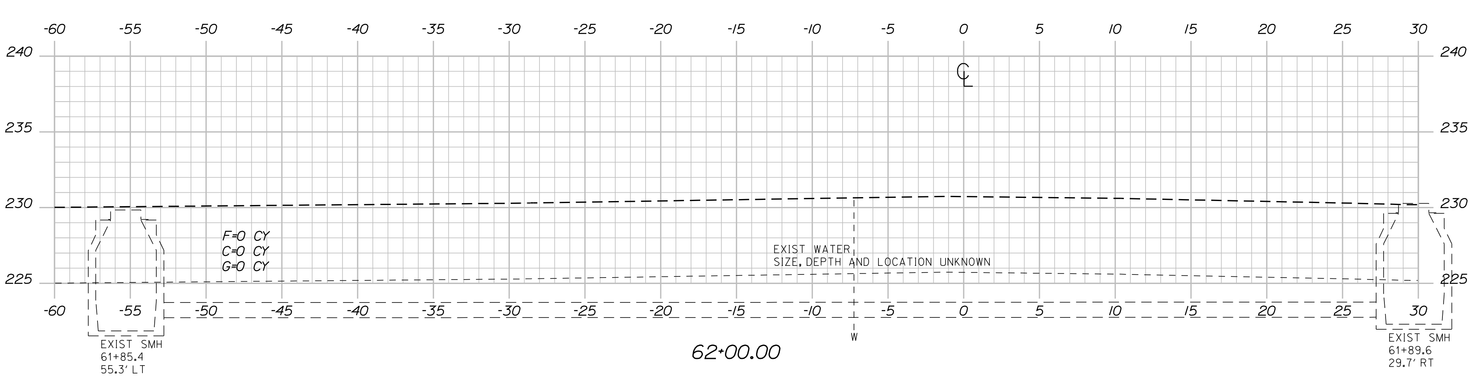


62+00.00

Sta. 62+00.00 to Sta. 64+00.00

SHEET NUMBER 16 OF 21

AUBURN
MINOT AVENUE\HOTEL ROAD

CROSS SECTIONS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. GORRILL		10-12-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

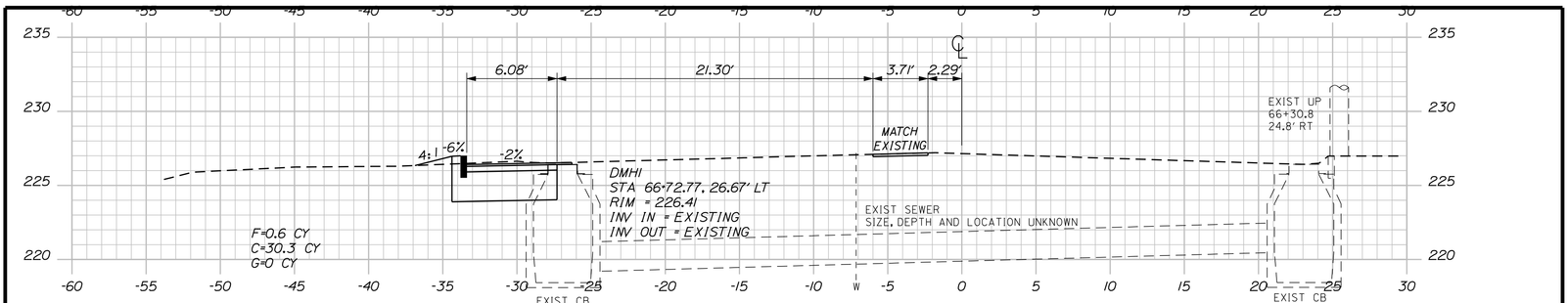
SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1566(800)X

PIN 15668.00

HIGHWAY PLANS



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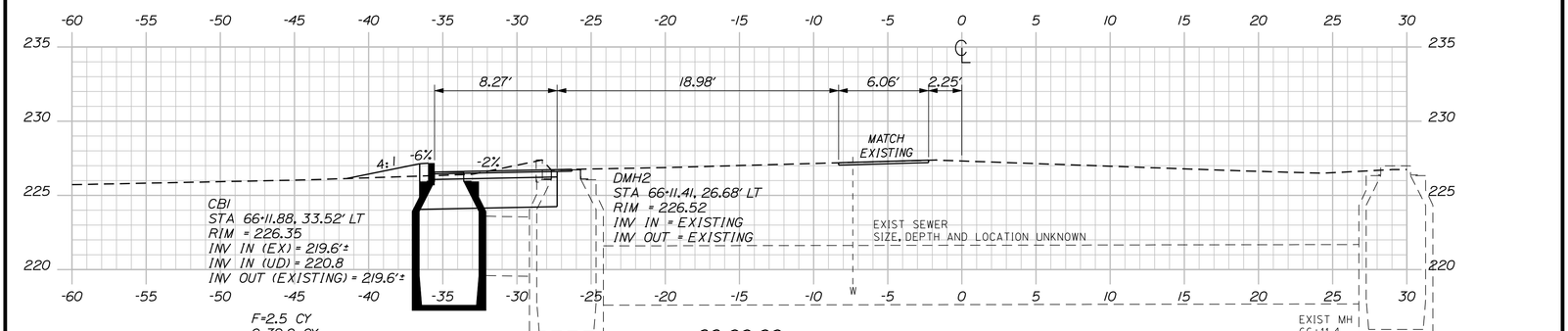

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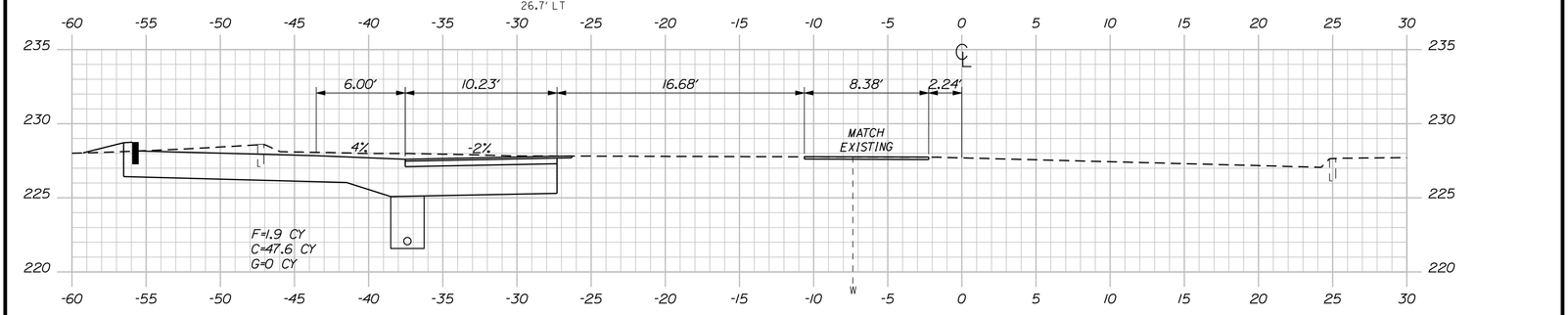

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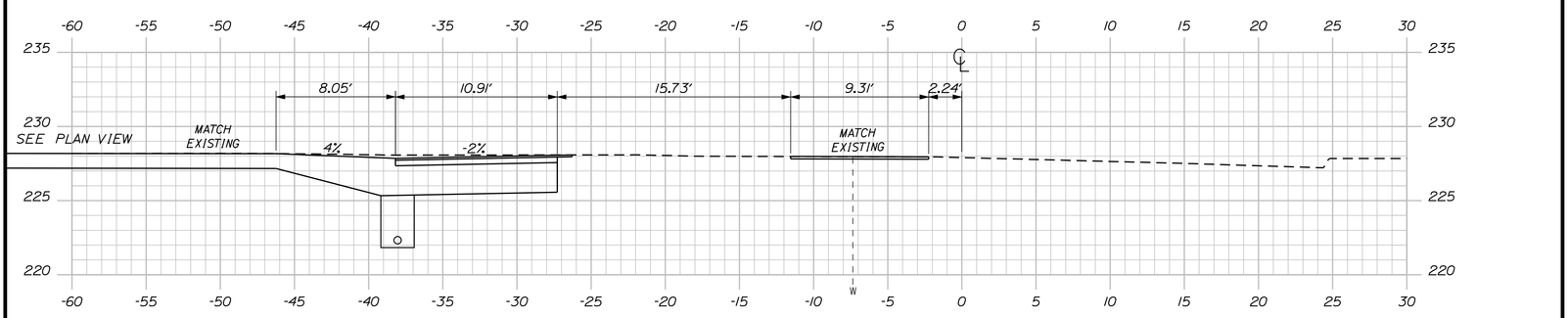

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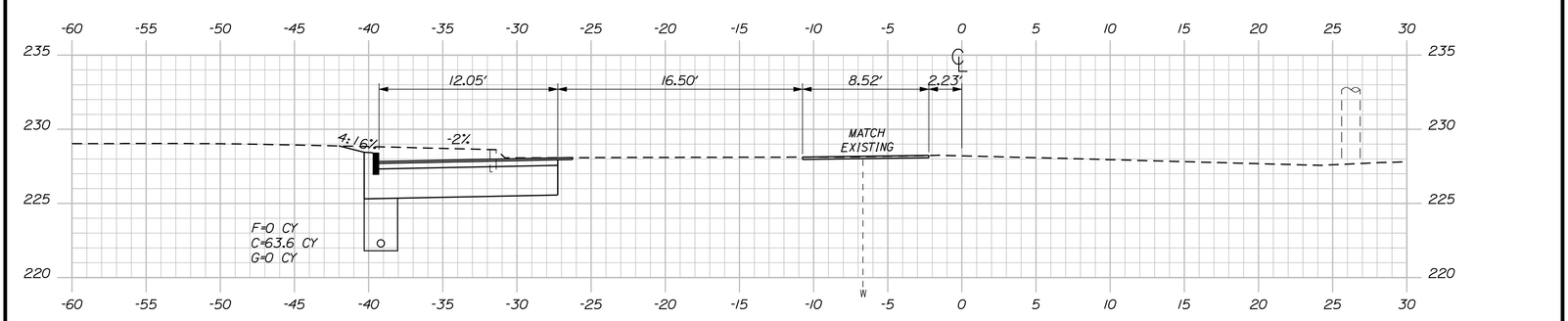

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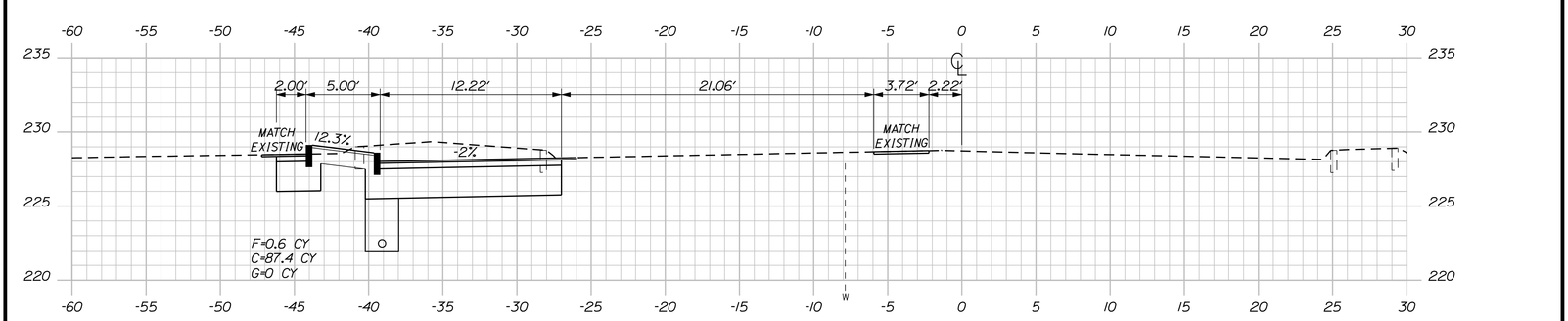


64+50.00

Sta. 64+50.00 to Sta. 66+50.00

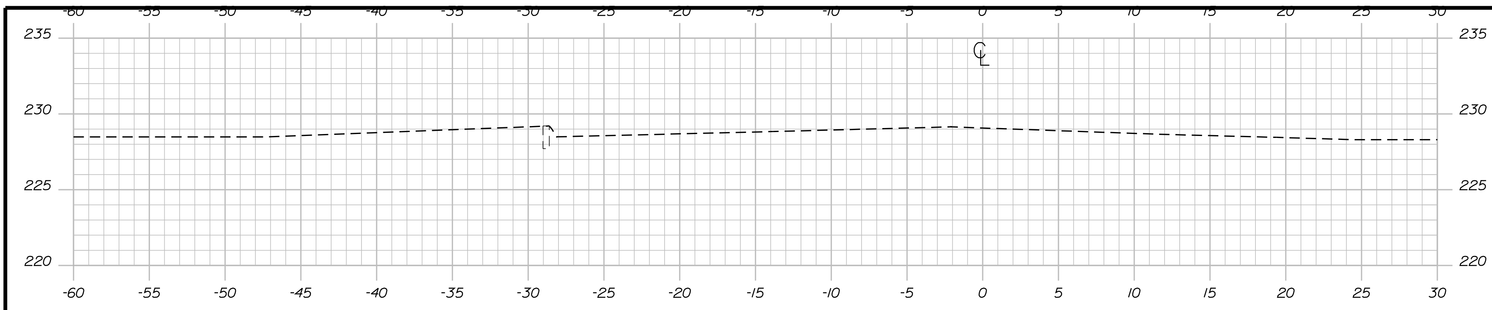
SHEET NUMBER 17 OF 21

AUBURN
MINOT AVENUE\HOTEL ROAD
CROSS SECTIONS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	R. NORWOOD	D. BURGESS	05-08-09
CHECKED-REVIEWED	T. GORRILL		10-12-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1566(800)X
PIN 15668.00
HIGHWAY PLANS



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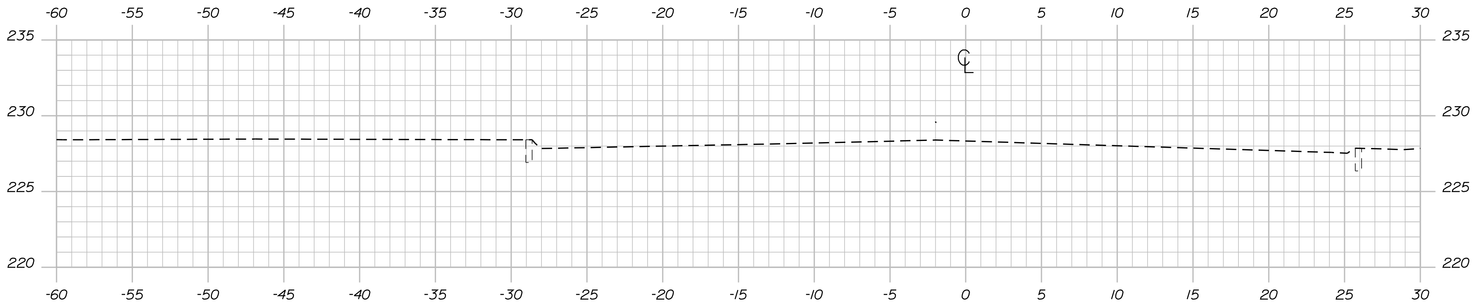

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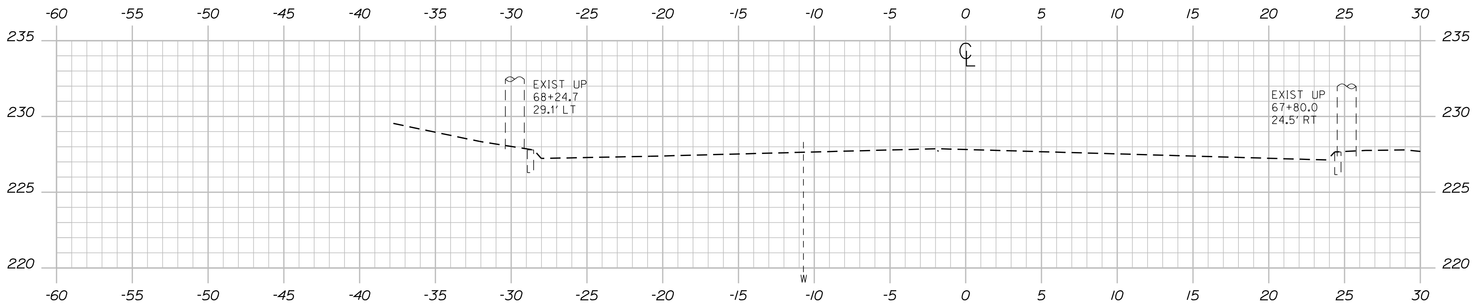

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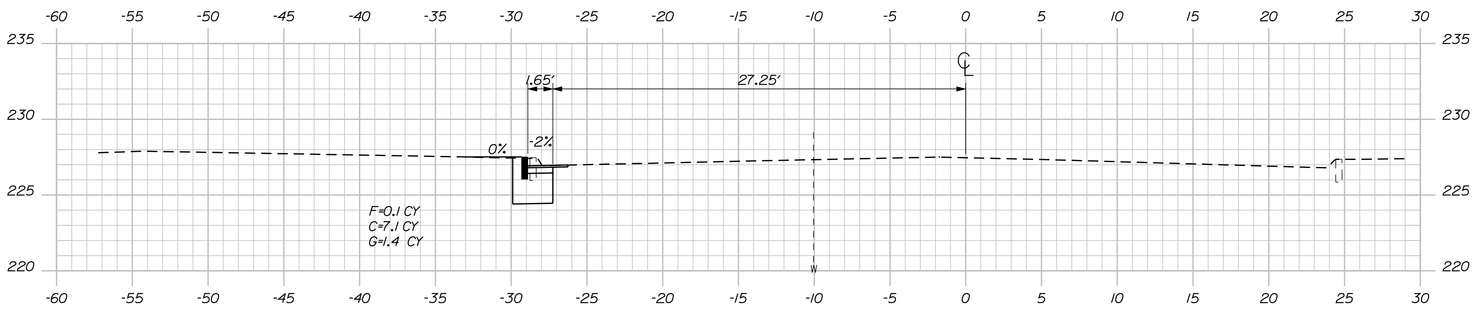

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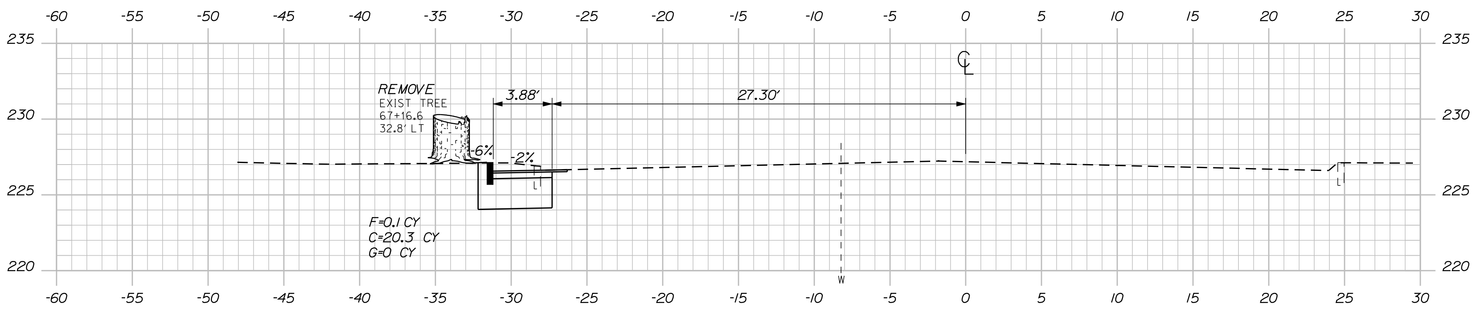

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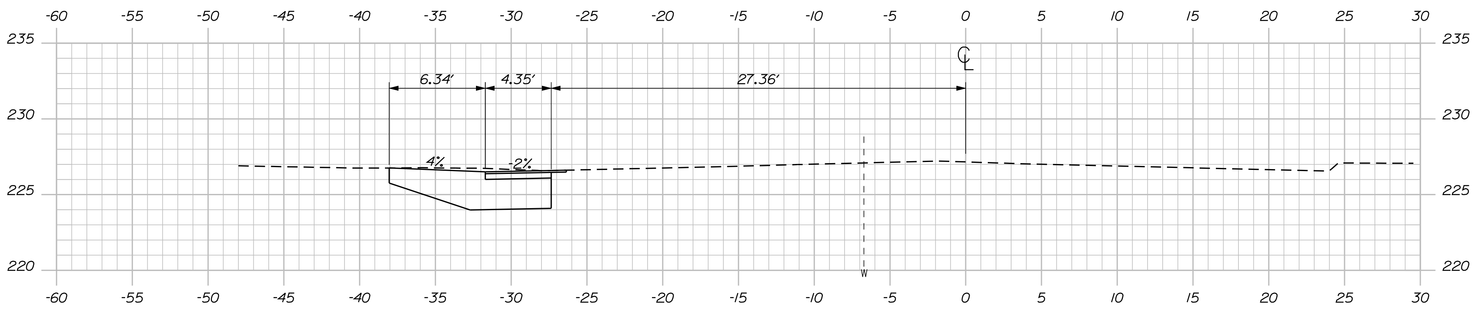


66+88.00

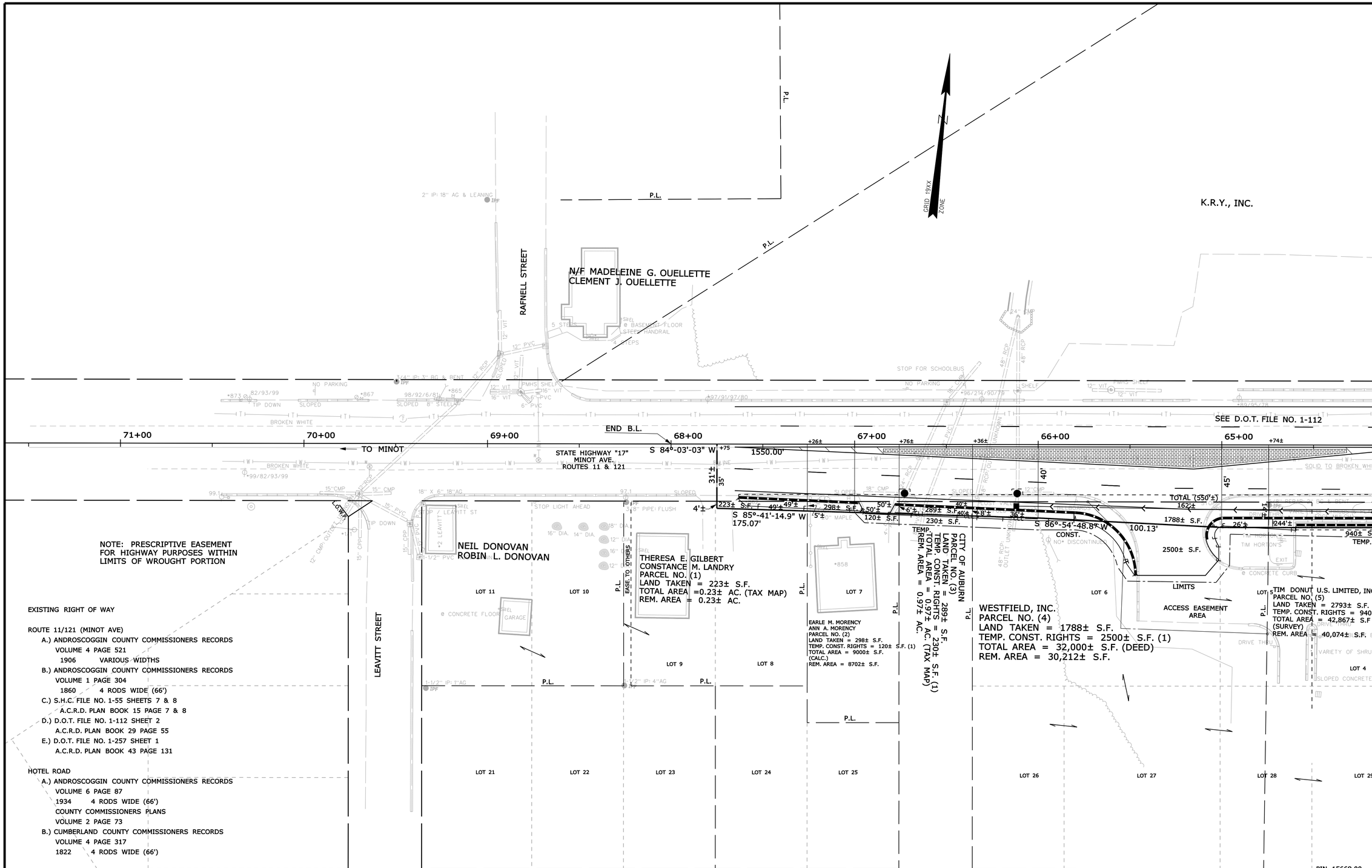
Sta. 66+88.00 to Sta. 69+00.00

SHEET NUMBER 18 OF 21	AUBURN MINOT AVENUE\HOTEL ROAD CROSS SECTIONS	PROJ. MANAGER P. MACDONALD	BY	DATE
		DESIGN-DETAILED R. NORWOOD	D. BURGESS	05-08-09
		CHECKED-REVIEWED T. GORRILL		10-12-11
		DESIGN2-DETAILED2		
		DESIGN3-DETAILED3		
		REVISIONS 1		
		REVISIONS 2		
		REVISIONS 3		
		REVISIONS 4		
		FIELD CHANGES		

SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1566(800)X
PIN 15668.00
HIGHWAY PLANS

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: HIGHWAY Username: rhobe.moulton Date:10/31/2011



EXISTING RIGHT OF WAY

ROUTE 11/121 (MINOT AVE)
- A.) ANDROSCOGGIN COUNTY COMMISSIONERS RECORDS
  VOLUME 4 PAGE 521
  1906 VARIOUS WIDTHS
- B.) ANDROSCOGGIN COUNTY COMMISSIONERS RECORDS
  VOLUME 1 PAGE 304
  1860 4 RODS WIDE (66')
- C.) S.H.C. FILE NO. 1-55 SHEETS 7 & 8
  A.C.R.D. PLAN BOOK 15 PAGE 7 & 8
- D.) D.O.T. FILE NO. 1-112 SHEET 2
  A.C.R.D. PLAN BOOK 29 PAGE 55
- E.) D.O.T. FILE NO. 1-257 SHEET 1
  A.C.R.D. PLAN BOOK 43 PAGE 131

HOTEL ROAD
- A.) ANDROSCOGGIN COUNTY COMMISSIONERS RECORDS
  VOLUME 6 PAGE 87
  1934 4 RODS WIDE (66')
  COUNTY COMMISSIONERS PLANS
  VOLUME 2 PAGE 73
- B.) CUMBERLAND COUNTY COMMISSIONERS RECORDS
  VOLUME 4 PAGE 317
  1822 4 RODS WIDE (66')

SYMBOLS
- IPF (IRON PIPE or PIN)
- S.T. (SEPTIC TANK)
- ⊼BM (TRAVERSE POINT)
- (ROW MONUMENT)
- (WELL)
- GRADING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- 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		
PROP. LINES	T.J.K.	
AREAS	T.J.K.	T.L.B.

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

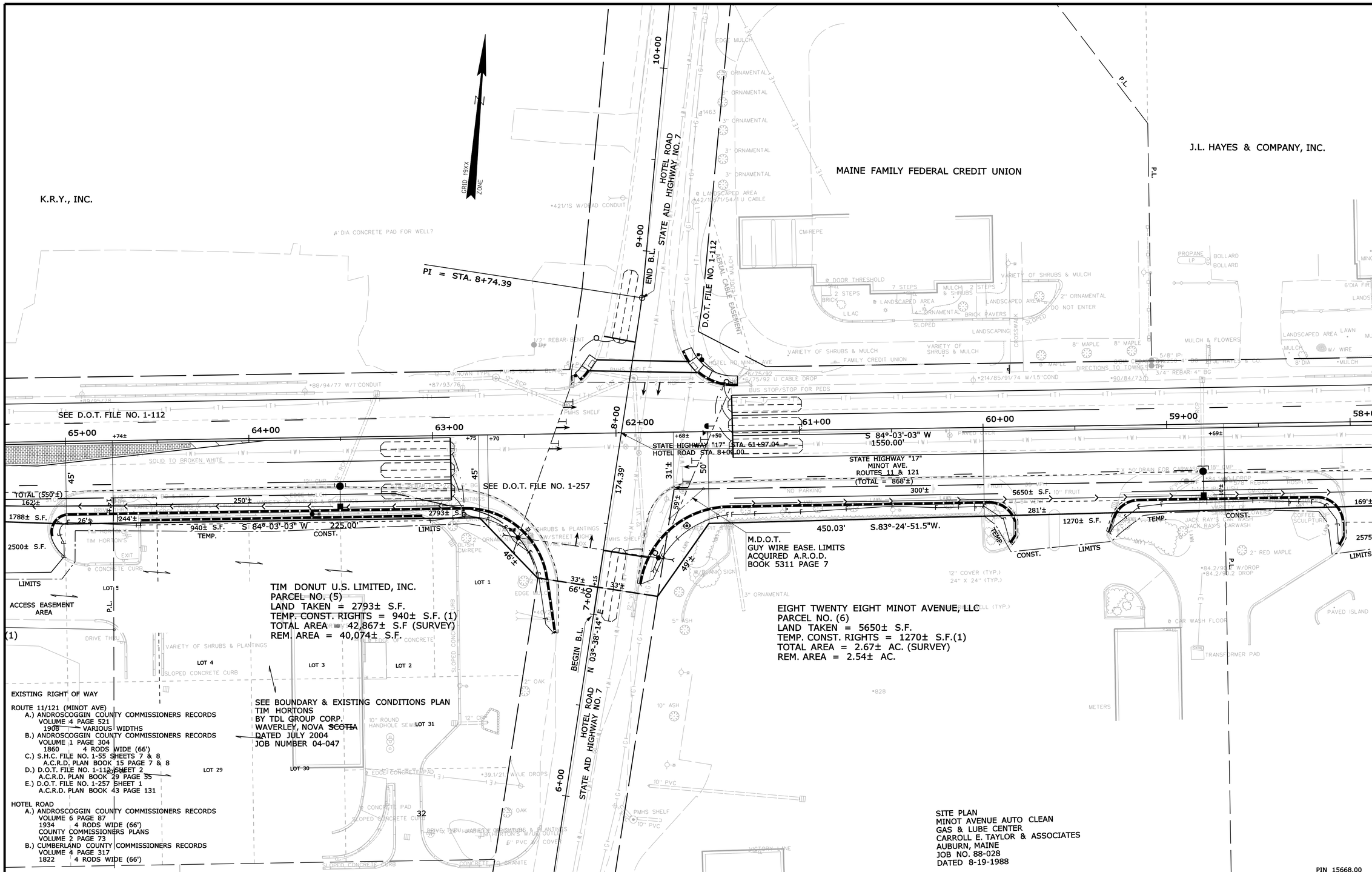
PLAN FILED IN PLAN BOOK			PAGE	COUNTY RECORD		
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	

DAVID BERNHARDT
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

STATE HIGHWAY "17"
MINOT AVENUE
AUBURN ANDROSCOGGIN COUNTY
FEDERAL AID PROJECT NO. STP-1566(800)X

SEPTEMBER 2011	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 1-306
SCALE 1" = 25'	SHEET 1 OF 3	

SHEET NUMBER
19
OF 21



SYMBOLS

- WELL
- GRADING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- LIMITS OF "RIGHT TO RETAIN (L.O.W.R.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IPF (IRON PIPE or PIN)
- ST. (SEPTIC TANK)
- &BM (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W		
PROP. LINES	T.J.K.	T.L.B.
AREAS	T.J.K.	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

AUBURN
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
KENNETH L. SWEENEY
CHIEF ENGINEER

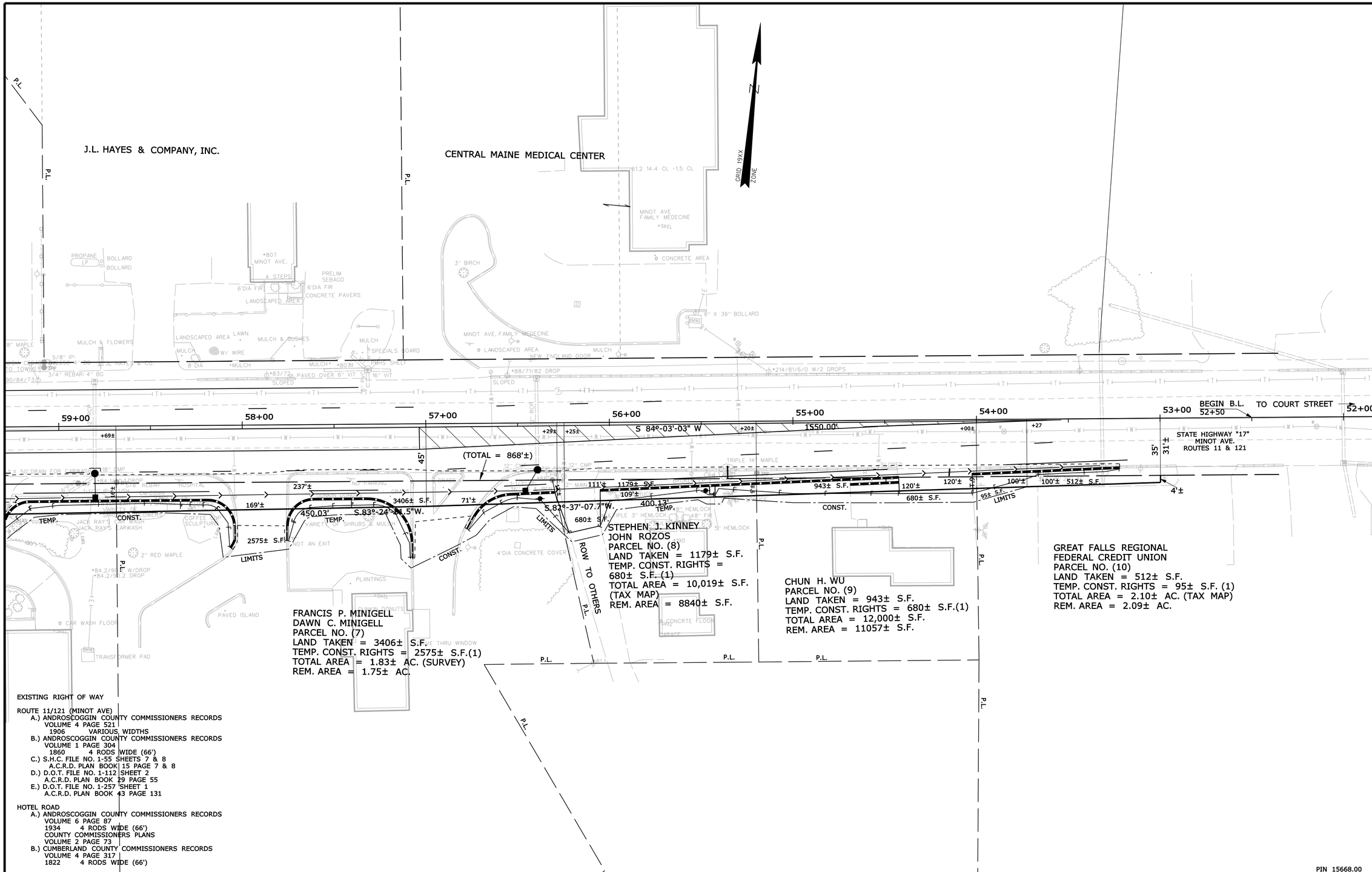
DATE

STATE HIGHWAY "17"
MINOT AVENUE
AUBURN ANDROSCOGGIN COUNTY
FEDERAL AID PROJECT NO. STP-1566(800)X

SEPTEMBER 2011 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 1-306
SCALE 1" = 25' | SHEET 2 OF 3

SHEET NUMBER
20
OF 21

Filename: ...\00\row\msto\002_RWPLAN2.dgn Division: HIGHWAY Username: rhobe.moulton Date:10/31/2011



EXISTING RIGHT OF WAY

ROUTE 11/121 (MINOT AVE)
- A.) ANDROSCOGGIN COUNTY COMMISSIONERS RECORDS
  VOLUME 4 PAGE 521
  1906 VARIOUS WIDTHS
- B.) ANDROSCOGGIN COUNTY COMMISSIONERS RECORDS
  VOLUME 1 PAGE 304
  1860 4 RODS WIDE (66')
- C.) S.H.C. FILE NO. 1-55 SHEETS 7 & 8
  A.C.R.D. PLAN BOOK 15 PAGE 7 & 8
- D.) D.O.T. FILE NO. 1-112 SHEET 2
  A.C.R.D. PLAN BOOK 29 PAGE 55
- E.) D.O.T. FILE NO. 1-257 SHEET 1
  A.C.R.D. PLAN BOOK 43 PAGE 131

HOTEL ROAD
- A.) ANDROSCOGGIN COUNTY COMMISSIONERS RECORDS
  VOLUME 6 PAGE 87
  1934 4 RODS WIDE (66')
  COUNTY COMMISSIONERS PLANS
  VOLUME 2 PAGE 73
- B.) CUMBERLAND COUNTY COMMISSIONERS RECORDS
  VOLUME 4 PAGE 317
  1822 4 RODS WIDE (66')

SYMBOLS
- (WELL) WELL
- GROUNDING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE - PL -
- LIMITS OF "RIGHT TO ENTRY" (LOTE P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IPF (IRON PIPE or PIN)
- ST. (SEPTIC TANK)
- (ROW MONUMENT)
- &BM (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W		
PROP. LINES	T.J.K.	
AREAS	T.J.K.	T.L.B.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
AUBURN
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
KENNETH L. SWEENEY
CHIEF ENGINEER

DATE

STATE HIGHWAY "17"
MINOT AVENUE
AUBURN ANDROSCOGGIN COUNTY
FEDERAL AID PROJECT NO. STP-1566(800)X

SEPTEMBER 2011 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 1-306
SCALE 1" = 25' | SHEET 3 OF 3

SHEET NUMBER
21
OF 21

Filename: ...\00\row\msto\003_RWPLAN3.dgn Division: HIGHWAY Username: rhobe.moulton Date:10/31/2011

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

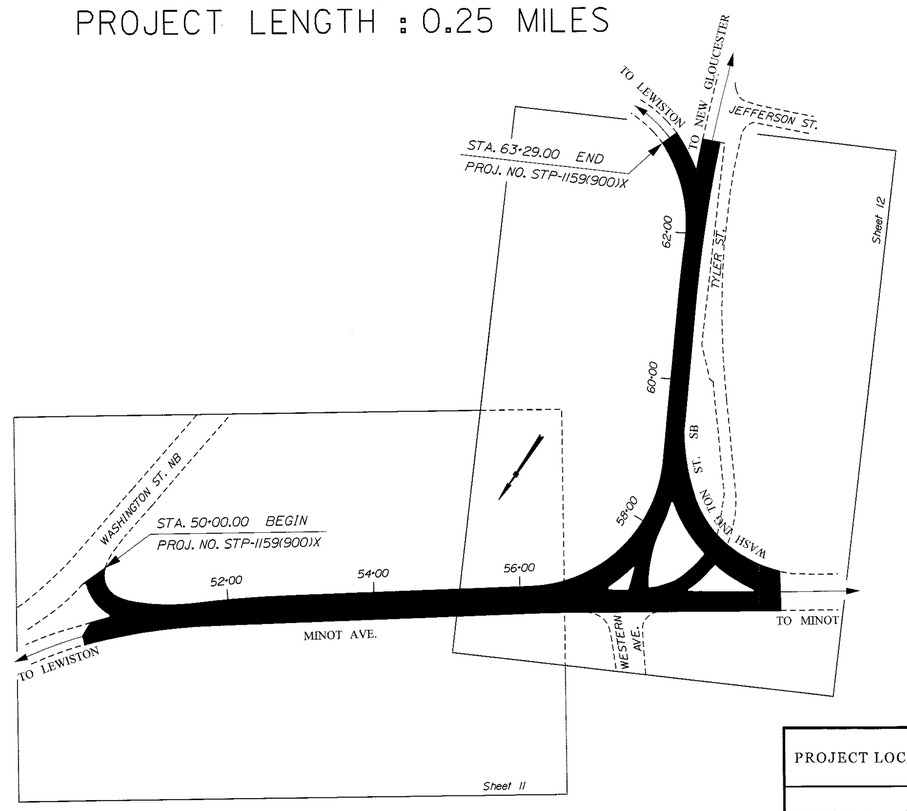
PLAN LEGEND

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 — W
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

AUBURN
ANDROSCOGGIN COUNTY
MINOT AVENUE ROTARY
STP-1159(900)X
PROJECT LENGTH : 0.25 MILES

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections, General Notes & Estimated Quantities	2
Plans	3-4
Geometric Layout	5-6



LAYOUT SCALE

100 0 100 200
Scale in Feet

TRAFFIC DATA

	MINOT AVE. (E/O WESTERN AVE.)	MINOT AVE. (SW/O TYLER ST.)	WASHINGTON ST. (SOUTHBOUND)
Current (2012) AADT	16570	15160	13070
Future (2032) AADT	19880	18190	15680
DHV - % of AADT	10%	10%	10%
Design Hour Volume	1988	1819	1568
% Heavy Trucks (AADT)	11%	7%	12%
% Heavy Trucks (DHV)	11%	7%	12%
Directional Distribution (DHV)	100%	60%	100%
18 kip Equivalent P 2.0	2577	497	2344
18 kip Equivalent P 2.5	2455	474	2233
Design Speed (mph)	25	25	25
Functional Class:	Major Arterial	Minor Arterial	Major Arterial

PROJECT LOCATION:	INTERSECTION OF MINOT AVENUE, WASHINGTON STREET, AND WESTERN AVENUE
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	STRIPING AND CURB RECONFIGURATION

WIN 11599.00 STP-1159(900)X

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED — DATE
COMMISSIONER: 3/19/12
CHIEF ENGINEER: 3/15/12

STATE OF MAINE — ATLEE MOUSSEAU — No. 10415 — LICENSED PROFESSIONAL ENGINEER

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	P. MACDONALD
DESIGNER	A. MOUSSEAU
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE
10415
P.E. NUMBER
3-15-12
DATE

AUBURN
MINOT AVENUE ROTARY
TITLE SHEET

SHEET NUMBER
1
OF 6

Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: atlee.mousseau Date:3/15/2012

ESTIMATED QUANTITIES

FOR ESTIMATED QUANTITIES, REFER TO
THE MOST CURRENT SCHEDULE OF ITEMS IN THE CONTRACT BOOK.

GENERAL NOTES

1. NO UTILITY INVOLVEMENT IS ANTICIPATED.

2. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.

3. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES.

4. SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL DISTURBED AREAS.

5. 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.

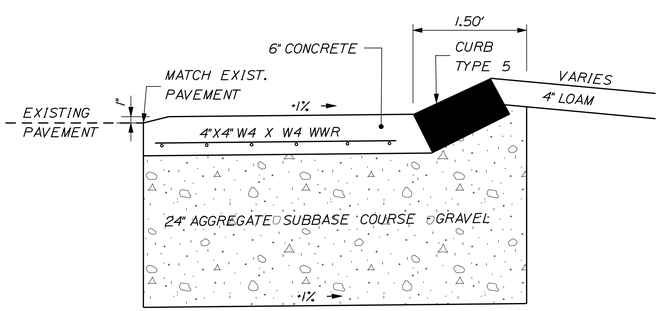
6. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

8. ALL STRIPING THAT WILL NOT BE RE-STRIPED ACCORDING TO THE STRIPING PLAN SHALL BE REMOVED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 627.77 REMOVE PAVEMENT MARKINGS.

9. ALL STRIPING SHALL BE LAID OUT ACCORDING TO THE CURVE DATA AND OTHER INFORMATION PROVIDED. WHERE NO INFORMATION HAS BEEN PROVIDED, STRIPING SHALL BE LAID OUT AS DIRECTED BY THE RESIDENT. MINOR FIELD ADJUSTMENTS MAY NEED TO BE MADE TO BETTER MATCH EXISTING STRIPING AT LIMITS OF WORK.

CONCRETE ISLAND DETAIL



1. SAWCUT PAVEMENT VERTICALLY AND REMOVE THE EXISTING MATERIAL TO SPECIFIED SUBGRADE AS DIRECTED BY THE RESIDENT.

2. APPLY A LIGHT COAT OF ASPHALT TO ACT AS A BOND BREAKER BETWEEN THE CONCRETE AND ADJACENT PAVEMENT.

3. CONSTRUCT CONCRETE ISLAND WITH CLASS A CONCRETE.

4. ISLAND EDGES SHALL BE BEVELED AT A 4:1 SLOPE.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1159(900)X

WIN
11599.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	03/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

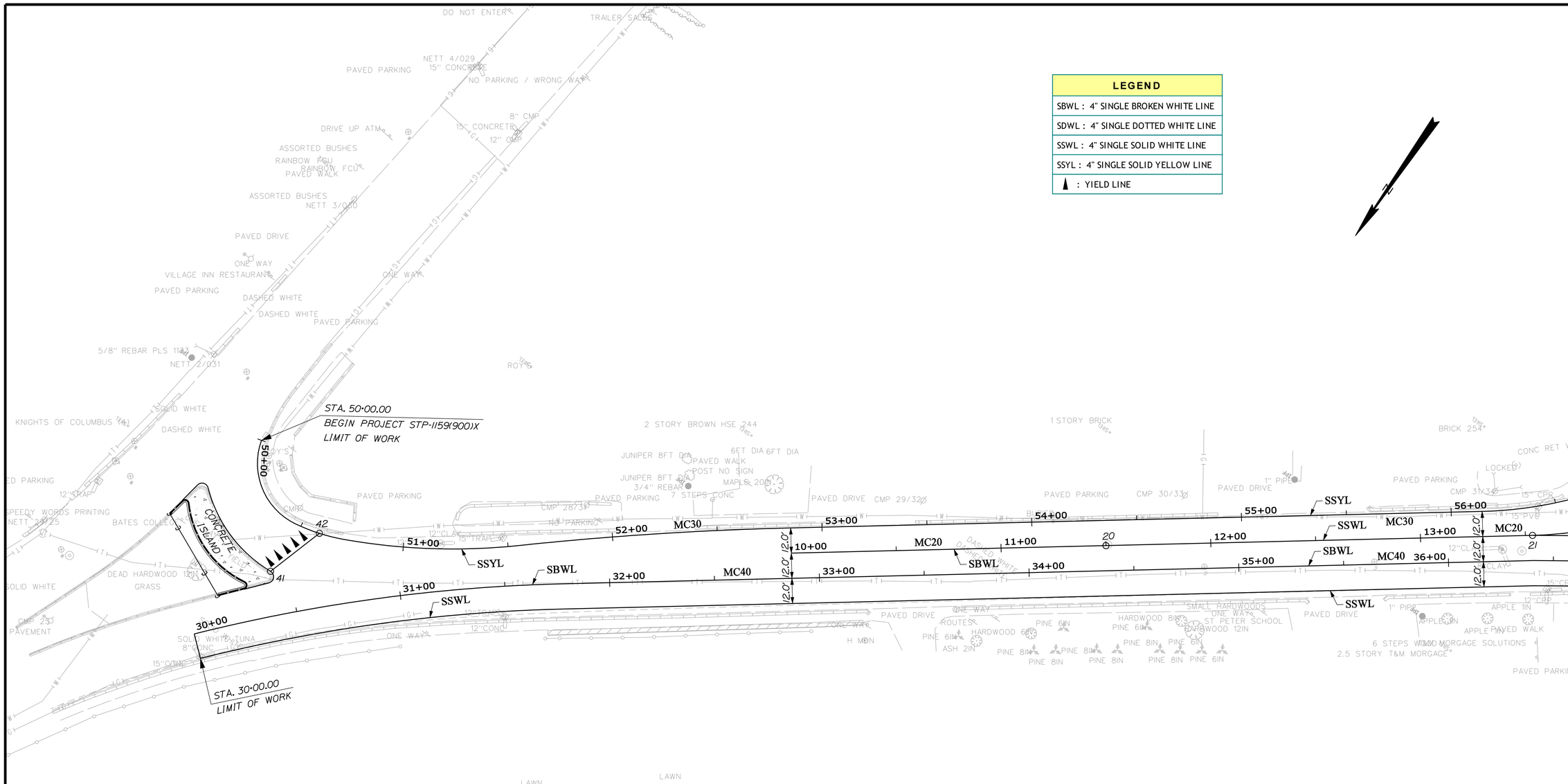
DATE

AUBURN
MINOT AVENUE ROTARY

TYPICAL SECTIONS, GENERAL NOTES
& ESTIMATED QUANTITIES

SHEET NUMBER
2
OF 6

Filename: ...\002_Typical_General Notes_Estimate.dgn Division: HIGHWAY Username: atlee.mousseau Date:3/21/2012



LEGEND
SBWL : 4" SINGLE BROKEN WHITE LINE
SDWL : 4" SINGLE DOTTED WHITE LINE
SSWL : 4" SINGLE SOLID WHITE LINE
SSYL : 4" SINGLE SOLID YELLOW LINE
: YIELD LINE

PAVEMENT MARKING NOTES:

1. THE FIRST SET OF PAVEMENT MARKINGS IN THE TWO LEFT-MOST LANES SHALL BE REMOVED

2. MIDDLE LANE LEFT/THROUGH COMBINATION ARROW SHALL BE REPLACED WITH THROUGH ONLY ARROW TO REFLECT THE DETAIL SHOWN HERE.

3. ALL ADJUSTMENTS TO PAVEMENT MARKING ARROWS SHALL BE AS DIRECTED BY THE RESIDENT.

4. PAYMENT WILL BE MADE UNDER THE APPROPRIATE STRIPING ITEMS.

LEFT LANE

MIDDLE LANE

RIGHT LANE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1159(900)X

WIN 11599.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	P. MACDONALD	03/2012
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN
CHECKED-REVIEWED	------	------
DESIGN2-DETAILED2	------	------
DESIGN3-DETAILED3	------	------
REVISIONS 1	------	------
REVISIONS 2	------	------
REVISIONS 3	------	------
REVISIONS 4	------	------
FIELD CHANGES	------	------

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE ROTARY

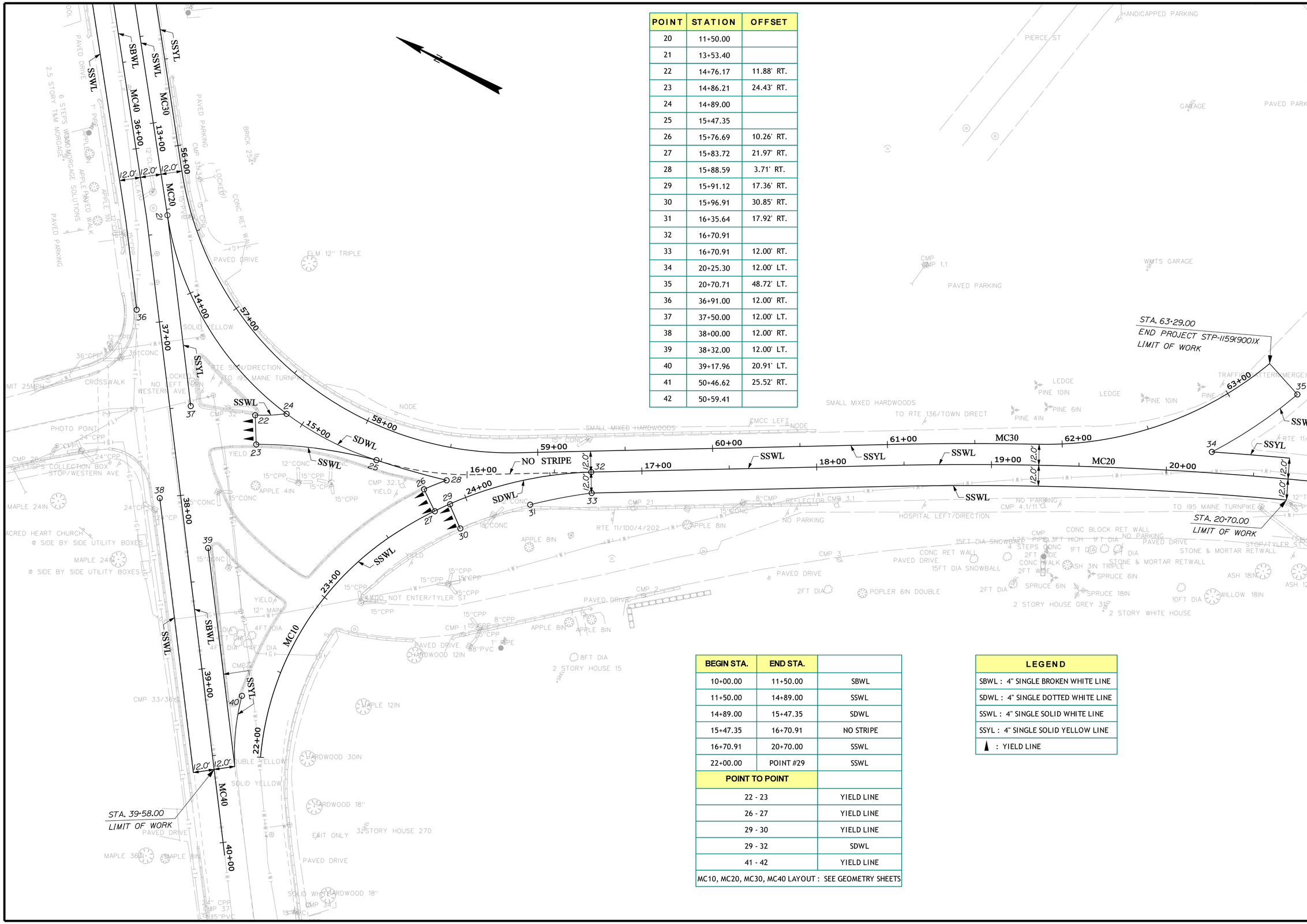
PLANS

SHEET NUMBER

3

OF 6

Filename: ...\highway\msta\003_HDPlan1.dgn Division: HIGHWAY Username: atlee.mousseau Date:3/21/2012



POINT	STATION	OFFSET
20	11+50.00	
21	13+53.40	
22	14+76.17	11.88' RT.
23	14+86.21	24.43' RT.
24	14+89.00	
25	15+47.35	
26	15+76.69	10.26' RT.
27	15+83.72	21.97' RT.
28	15+88.59	3.71' RT.
29	15+91.12	17.36' RT.
30	15+96.91	30.85' RT.
31	16+35.64	17.92' RT.
32	16+70.91	
33	16+70.91	12.00' RT.
34	20+25.30	12.00' LT.
35	20+70.71	48.72' LT.
36	36+91.00	12.00' RT.
37	37+50.00	12.00' LT.
38	38+00.00	12.00' RT.
39	38+32.00	12.00' LT.
40	39+17.96	20.91' LT.
41	50+46.62	25.52' RT.
42	50+59.41	

BEGIN STA.	END STA.	
10+00.00	11+50.00	SBWL
11+50.00	14+89.00	SSWL
14+89.00	15+47.35	SDWL
15+47.35	16+70.91	NO STRIPE
16+70.91	20+70.00	SSWL
22+00.00	POINT #29	SSWL
POINT TO POINT		
22 - 23		YIELD LINE
26 - 27		YIELD LINE
29 - 30		YIELD LINE
29 - 32		SDWL
41 - 42		YIELD LINE
MC10, MC20, MC30, MC40 LAYOUT : SEE GEOMETRY SHEETS		

LEGEND
SBWL : 4" SINGLE BROKEN WHITE LINE
SDWL : 4" SINGLE DOTTED WHITE LINE
SSWL : 4" SINGLE SOLID WHITE LINE
SSYL : 4" SINGLE SOLID YELLOW LINE
▲ : YIELD LINE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1159(900)X

WIN 11599.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	03/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE ROTARY

PLANS

SHEET NUMBER

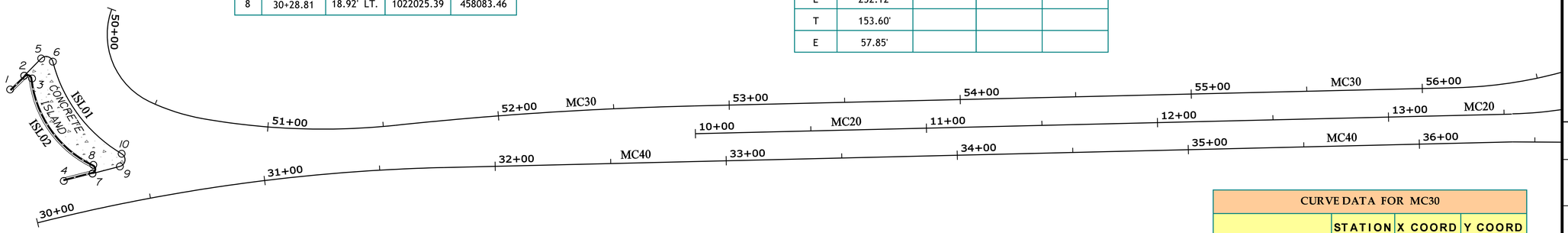
4

OF 6

Filename: ...\highway\msta\004_HDPlan2.dgn Division: HIGHWAY Username: allee.mousseau Date:3/21/2012

PT.	STATION	OFFSET	X COORD	Y COORD
CONTROL POINTS FOR ISL01				
2	30+09.16	63.10' LT.	1022071.92	458068.87
5	30+17.32	68.66' LT.	1022070.14	458058.59
6	30+21.58	66.22' LT.	1022065.22	458056.83
7	30+27.69	15.34' LT.	1022023.56	458086.75
9	30+39.69	15.95' LT.	1022015.58	458077.46
10	30+41.47	21.18' LT.	1022018.07	458072.51
CONTROL POINTS FOR ISL02				
1	30+02.35	58.74' LT.	1022073.52	458077.25
2	30+09.16	63.10' LT.	1022071.92	458068.87
3	30+11.96	61.14' LT.	1022068.44	458067.93
4	30+15.11	14.94' LT.	1022031.94	458096.45
7	30+27.69	15.34' LT.	1022023.56	458086.75
8	30+28.81	18.92' LT.	1022025.39	458083.46

CURVE DATA FOR MC20				
		STATION	X COORD	Y COORD
TANGENT				
POB		10+00.00	1021819.09	457923.80
PC		13+53.40	1021533.73	457715.33
BEARING	S 53°-51'-00" W			
L	353.40'			
CURVE				
PC		13+53.40	1021533.73	457715.33
PI		15+07.00	1021409.71	457624.72
CC			1021636.96	457574.02
PT		16+05.52	1021483.46	457489.99
R	175.00'			
Δ	82°-32'-48" LT.			
D	32°-44'-26"			
L	252.12'			
T	153.60'			
E	57.85'			



PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL01						
2 - 5		10.43'				
5 - 6	3.00'	6.34'	30+18.81	66.14' LT.	1022067.18	458059.10
6 - 10	65.00'	50.99'	30+81.32	70.69' LT.	1022022.69	458007.67
10 - 9	3.00'	7.06'	30+39.52	18.95' LT.	1022017.85	458075.50
9 - 7		12.25'				

PT. to PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL02						
ITEM 609.34 CURB TYPE 5 - ISLAND						
1 - 2		8.53'				
7 - 4		12.82'				
ITEM 609.35 CURB TYPE 5 - CIRCULAR						
2 - 3	2.00'	4.47'	30+10.12	61.38' LT.	1022069.95	458069.24
3 - 8	47.00'	47.80'	30+55.55	56.68' LT.	1022032.98	458037.08
8 - 7	2.00'	4.89'	30+27.61	17.34' LT.	1022025.07	458085.44

CURVE DATA FOR MC40				
		STATION	X COORD	Y COORD
CURVE				
PC		30+00.00	1022030.92	458117.77
PI		30+89.25	1021972.23	458050.53
CC			1021428.24	458643.86
PT		31+77.77	1021900.16	457997.88
R	800.00'			
Δ	12°-43'-55" RT.			
D	07°-09'-43"			
L	177.77'			
T	89.25'			
E	4.96'			
TANGENT				
PT		31+77.77	1021900.16	457997.88
AP		36+40.33	1021526.65	457725.02
BEARING	S 53°-51'-00" W			
L	462.56'			
TANGENT				
AP		36+40.33	1021526.65	457725.02
POE		40+07.53	1021223.66	457517.59
BEARING	S 55°-36'-18" W			
L	367.19'			

CURVE DATA FOR MC30				
		STATION	X COORD	Y COORD
CURVE				
PC		50+00.00	1022057.22	458023.71
PI		50+29.12	1022049.82	458051.88
CC			1022026.27	458015.58
PCC		50+47.25	1022021.09	458047.16
R	32.00'			
Δ	84°-35'-56" LT.			
D	179°-02'-58"			
L	47.25'			
T	29.12'			
E	11.26'			
CURVE				
PCC		50+47.25	1022021.09	458047.16
PI		50+59.48	1022009.02	458045.18
CC			1022035.67	457958.35
PCC		50+71.56	1021997.91	458040.05
R	90.00'			
Δ	15°-28'-40" LT.			
D	63°-39'-43"			
L	24.31'			
T	12.23'			
E	0.83'			

CURVE DATA FOR MC30				
		STATION	X COORD	Y COORD
CURVE				
PCC		50+71.56	1021997.91	458040.05
PI		51+13.71	1021959.65	458022.36
CC			1022123.76	457767.72
PRC		51+55.31	1021927.74	457994.82
R	300.00'			
Δ	15°-59'-42" LT.			
D	19°-05'-55"			
L	83.75'			
T	42.15'			
E	2.95'			
CURVE				
PRC		51+55.31	1021927.74	457994.82
PI		52+20.23	1021878.60	457952.41
CC			1020882.33	459206.07
PT		52+85.09	1021826.17	457914.11
R	1600.00'			
Δ	04°-38'-50" RT.			
D	03°-34'-52"			
L	129.77'			
T	64.92'			
E	1.32'			
TANGENT				
PT		52+85.09	1021826.17	457914.11
PC		56+14.79	1021559.95	457719.62
BEARING	S 53°-51'-00" W			
L	329.70'			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1159(900)X

WIN 11599.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD	BY	DATE
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	03/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE ROTARY

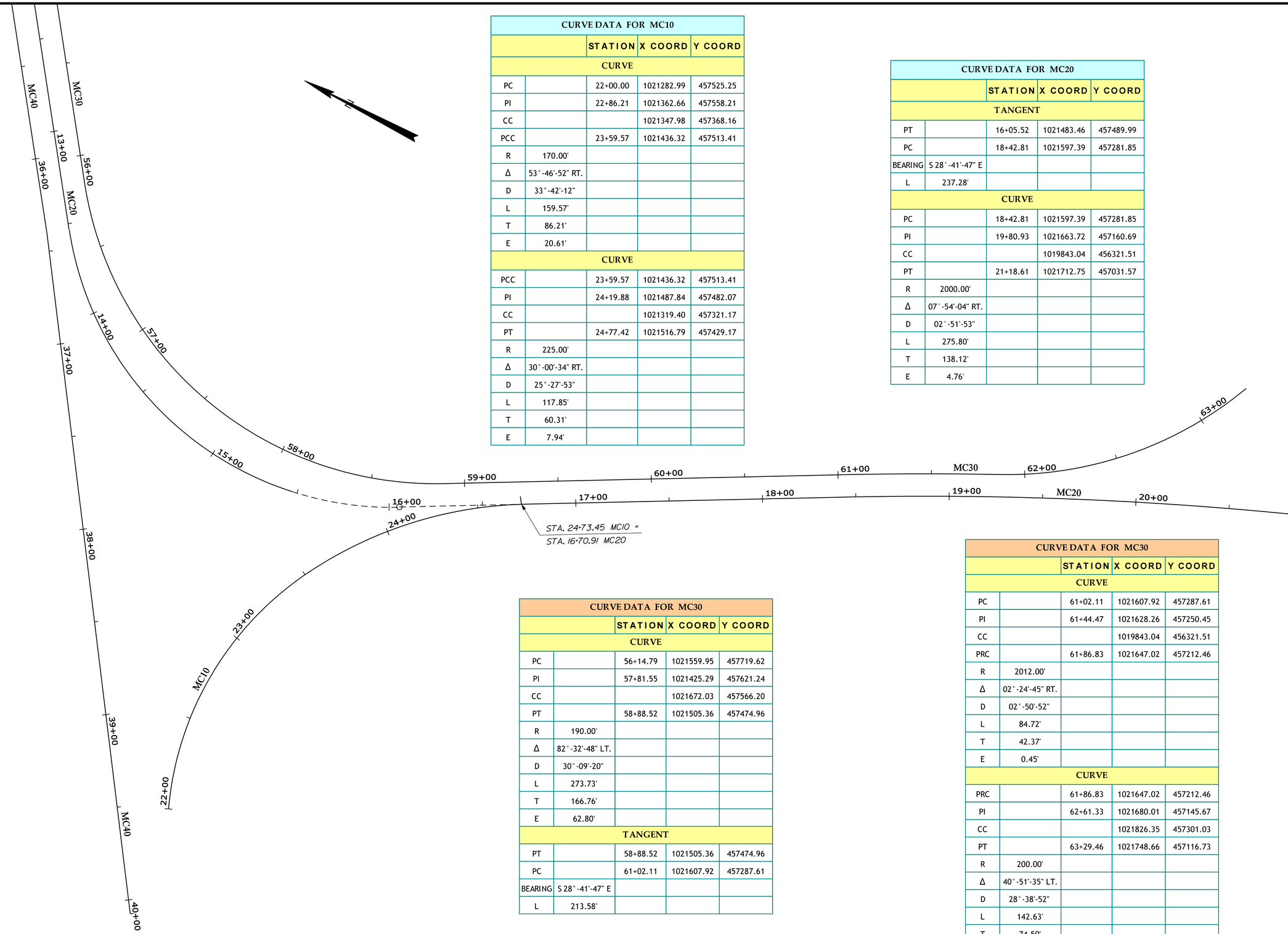
GEOMETRIC LAYOUT

SHEET NUMBER

5

OF 6

Filename: ...\highway\msta\005_Geometry1.dgn Division: HIGHWAY Username: atlee.mousseau Date:3/21/2012



CURVE DATA FOR MC10				
		STATION	X COORD	Y COORD
CURVE				
PC		22+00.00	1021282.99	457525.25
PI		22+86.21	1021362.66	457558.21
CC			1021347.98	457368.16
PCC		23+59.57	1021436.32	457513.41
R	170.00'			
Δ	53°-46'-52" RT.			
D	33°-42'-12"			
L	159.57'			
T	86.21'			
E	20.61'			
CURVE				
PCC		23+59.57	1021436.32	457513.41
PI		24+19.88	1021487.84	457482.07
CC			1021319.40	457321.17
PT		24+77.42	1021516.79	457429.17
R	225.00'			
Δ	30°-00'-34" RT.			
D	25°-27'-53"			
L	117.85'			
T	60.31'			
E	7.94'			

CURVE DATA FOR MC20				
		STATION	X COORD	Y COORD
TANGENT				
PT		16+05.52	1021483.46	457489.99
PC		18+42.81	1021597.39	457281.85
BEARING	S 28°-41'-47" E			
L	237.28'			
CURVE				
PC		18+42.81	1021597.39	457281.85
PI		19+80.93	1021663.72	457160.69
CC			1019843.04	456321.51
PT		21+18.61	1021712.75	457031.57
R	2000.00'			
Δ	07°-54'-04" RT.			
D	02°-51'-53"			
L	275.80'			
T	138.12'			
E	4.76'			

CURVE DATA FOR MC30				
		STATION	X COORD	Y COORD
CURVE				
PC		56+14.79	1021559.95	457719.62
PI		57+81.55	1021425.29	457621.24
CC			1021672.03	457566.20
PT		58+88.52	1021505.36	457474.96
R	190.00'			
Δ	82°-32'-48" LT.			
D	30°-09'-20"			
L	273.73'			
T	166.76'			
E	62.80'			
TANGENT				
PT		58+88.52	1021505.36	457474.96
PC		61+02.11	1021607.92	457287.61
BEARING	S 28°-41'-47" E			
L	213.58'			

CURVE DATA FOR MC30				
		STATION	X COORD	Y COORD
CURVE				
PC		61+02.11	1021607.92	457287.61
PI		61+44.47	1021628.26	457250.45
CC			1019843.04	456321.51
PRC		61+86.83	1021647.02	457212.46
R	2012.00'			
Δ	02°-24'-45" RT.			
D	02°-50'-52"			
L	84.72'			
T	42.37'			
E	0.45'			
CURVE				
PRC		61+86.83	1021647.02	457212.46
PI		62+61.33	1021680.01	457145.67
CC			1021826.35	457301.03
PT		63+29.46	1021748.66	457116.73
R	200.00'			
Δ	40°-51'-35" LT.			
D	28°-38'-52"			
L	142.63'			
T	74.50'			
E	13.42'			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1159(900)X

WIN 11599.00

HIGHWAY PLANS

PROJ. MANAGER	P. MACDONALD		
DESIGN-DETAILED	A. MOUSSEAU	BT TRAN	03/2012
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE ROTARY

GEOMETRIC LAYOUT

SHEET NUMBER

6

OF 6

Filename: ...\highway\msta\006_Geometry2.dgn Division: HIGHWAY Username: allee.mousseau Date:3/21/2012