STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLAN LEGEND

Town, County, State	Centerline-Existing
Property Lines	Centerline-Proposed (10+00)
R/W Lines-Existing	Travelway-Existing
R/W Lines-Proposed	Travelway-Proposed
Culvert-Existing	Railroad
Culvert Proposed	Catch Basins: Existing, Proposed
Curbing: Existing / Proposed	Manholes: Existing, Proposed
Type 1	Proposed Underdrain
Type 2	Proposed Ditch
Type 3	Existing Ditch
Type 5	Utility Poles: Existing, Proposed
Outline of Bodies of Water	Fire Hydrants: Existing, Proposed
Wetland Limits (OTH)	Existing Water Line (W)
Ledge	Existing San. Sewer
Buildings	Existing Gas Line (G)
Trees: Conifer, Deciduous	Existing San. Sewer Manhole
Tree Line	Guardrail-Existing
Clearing Limit Line (CLL)	Guardrail-Proposed
	Guardrail-Cable, Other

AUGUSTA
KENNEBEC COUNTY
ROUTE 27 & DARIN DRIVE
INTERSECTION IMPROVEMENTS
STP-2056(800)
PROJECT LENGTH : 0.36MILES

INDEX OF SHEETS

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Signing and Striping Plans	15-17
Geometric Layout and Curbing Plans	18-19
Signal Plans	20-21
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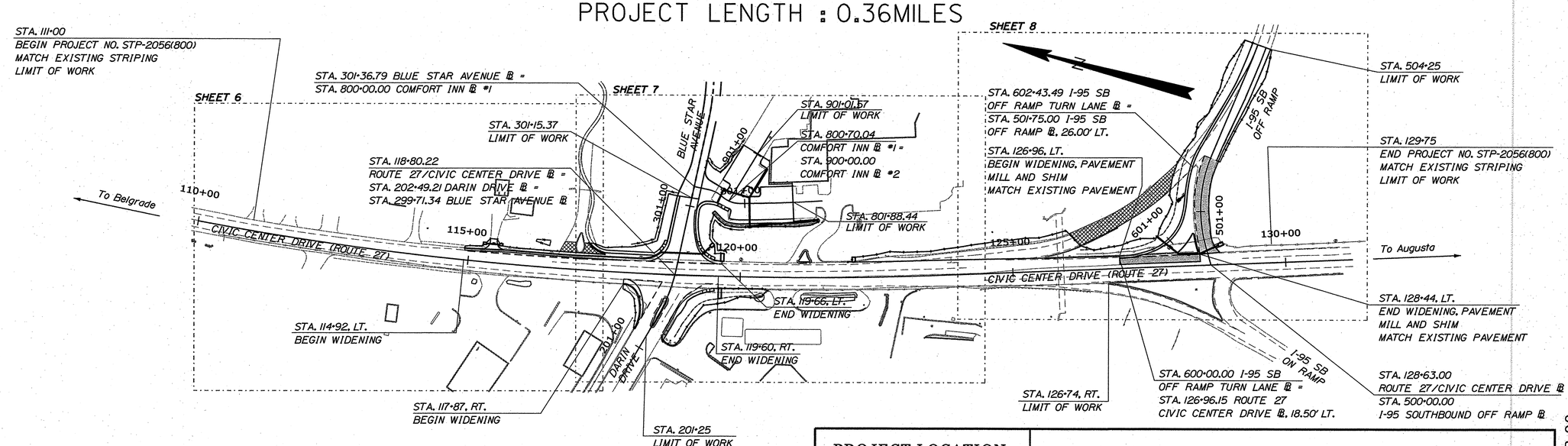

LAYOUT SCALE

100 0 100 200

Scale in Feet

TRAFFIC DATA	(Civic Center Drive N/O Darin Drive)	Guard Facility Road	(Civic Center Drive S/O Darin Drive)	(Darin Drive W/O Civic Center Drive)
Current (2015) AADT	13530	1480	17250	5740
Future (2027) AADT	15150	1660	19320	6430
Future (2035) AADT	16240	1780	20700	6890
DHV - % of AADT	10%	13%	10%	9%
Design Hour Volume	1503/1610	222/238	2028/2172	571/612
% Heavy Trucks (AADT)	6%	4%	6%	6%
% Heavy Trucks (DHV)	3%	3%	3%	4%
Directional Distribution (DHV)	56%	84%	63%	67%
18 kip Equivalent P 2.0	486/520	34/35	591/632	190/204
18 kip Equivalent P 2.5	463/496	32/34	563/602	181/194
Design Speed (mph)	45 MPH	25 MPH	35 MPH	25 MPH
Functional Class:				

PROJECT LOCATION:	Intersection of Route 27 and Darin Drive, and I-95 Southbound Ramps in Augusta
PROGRAM AREA:	Multimodal Program
SCOPE OF WORK:	Intersection Improvements with signal

WIN 20568.00

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: DATE 5/11/16
CHIEF ENGINEER: 5-10-16

STATE OF MAINE DONALD G. ETTINGER, JR. No. 9244 LICENSED PROFESSIONAL ENGINEER

SIGNATURE
P.E. NUMBER 9244
DATE 4-13-16

PROJECT INFORMATION

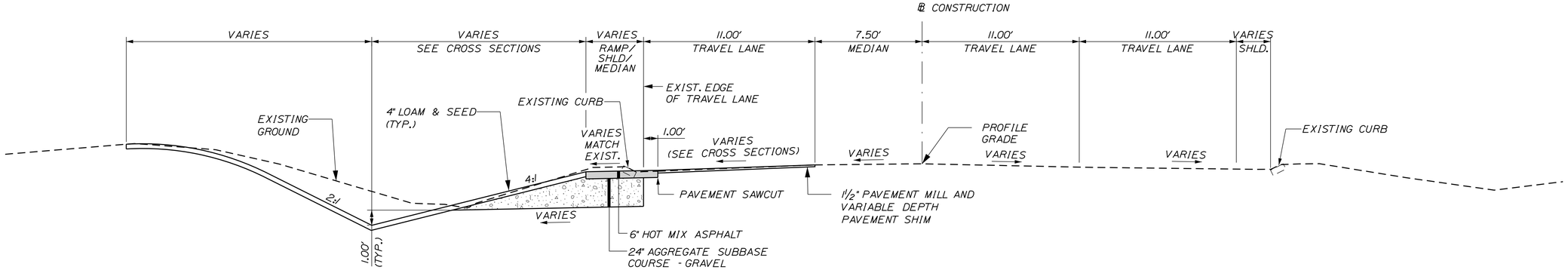
PROGRAM	MULTIMODAL
PROJECT MANAGER	B. KEEZER
DESIGNER	D. ETTINGER
CONSULTANT	GORRILL-PALMER
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

AUGUSTA
ROUTE 27 & DARIN DRIVE

TITLE SHEET

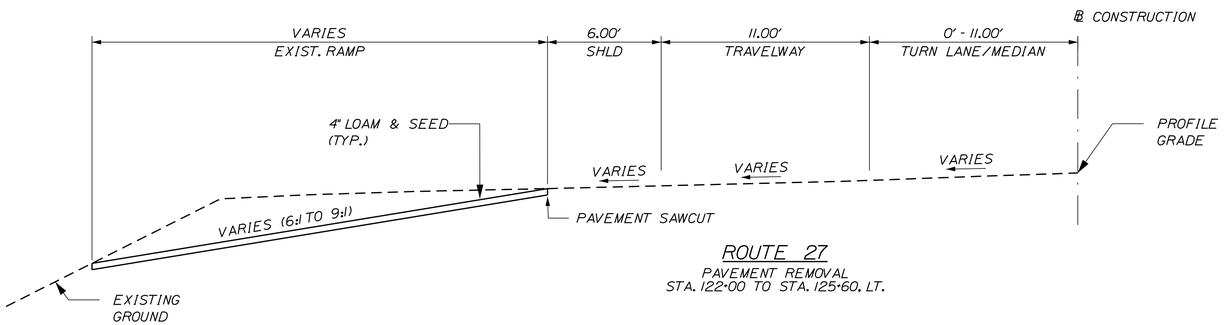
SHEET NUMBER
1
OF 50

Filename: ...\00\Highway\001_Title.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



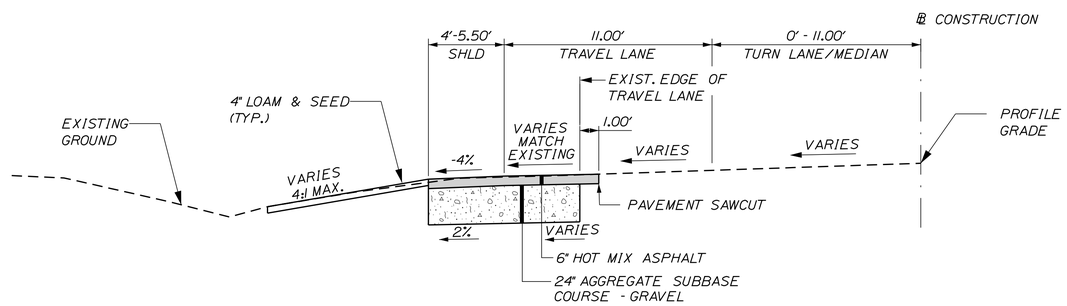
ROUTE 27

WIDENING, PAVEMENT MILL AND SHIM
STA. 126+96 TO STA. 128+44, LT.



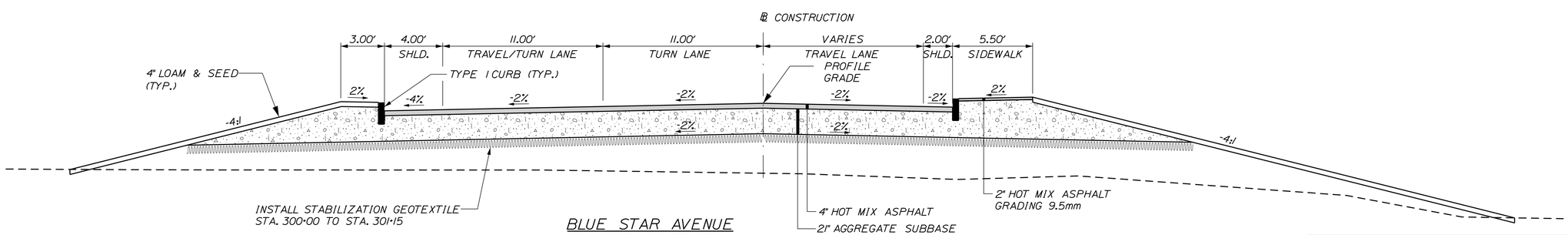
ROUTE 27

PAVEMENT REMOVAL
STA. 122+00 TO STA. 125+60, LT.



ROUTE 27

WIDENING
STA. 114+92 TO STA. 119+66, LT.



BLUE STAR AVENUE

FULL DEPTH CONSTRUCTION
STA. 300+00 TO STA. 301+15

NOTES:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 4" LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
5. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
7. THE SHOULDER PAVEMENT THICKNESS SHALL BE THE SAME AS THE TRAVELWAY PAVEMENT THICKNESS FOR ALL ROADWAYS, UNLESS OTHERWISE NOTED.
8. HMA OVERLAY CROSS SLOPES SHALL BE WITHIN -1.5% TO -3.0%. SHIM AND MILL AS REQUIRED TO ACHIEVE CROSS SLOPE.

NOT TO SCALE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04.16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04.16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

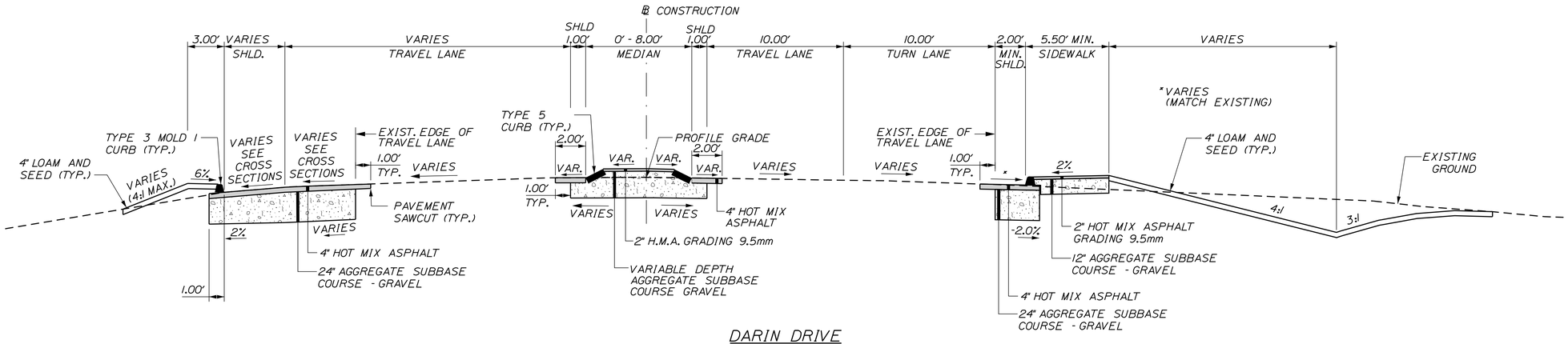
TYPICAL SECTIONS

SHEET NUMBER
2
OF 50

Filename: ...\00\Highway\002_Typical.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

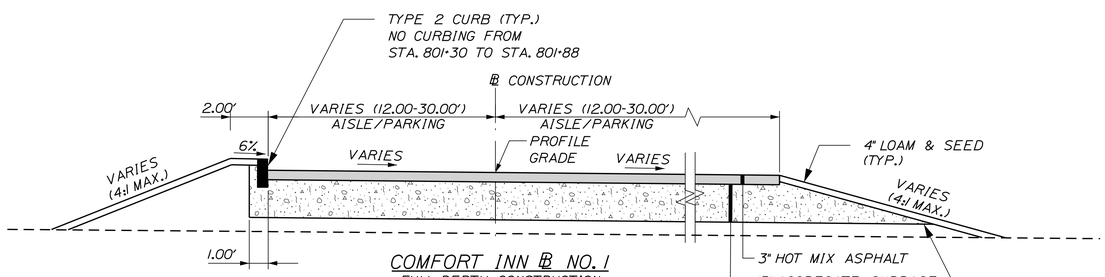
NOTES:

1. SEE PREVIOUS SHEET FOR TYPICAL SECTION NOTES.



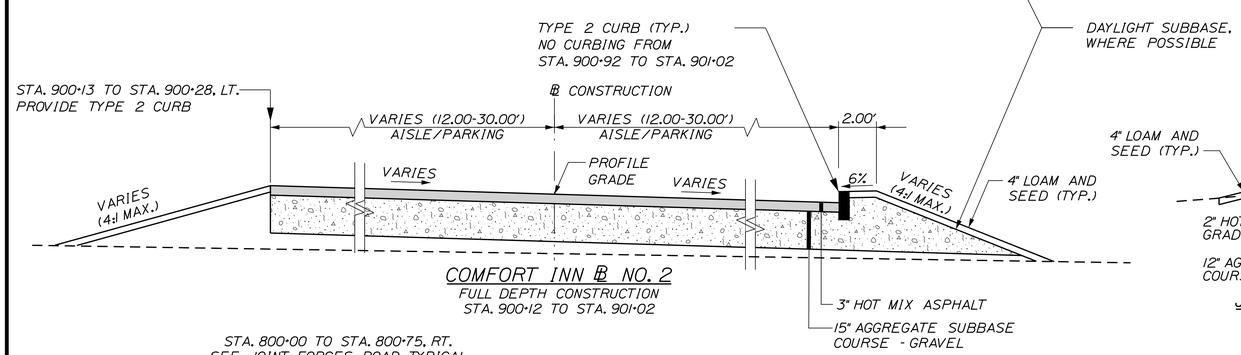
DARIN DRIVE

WIDENING
STA. 201+25 TO STA. 202+25



COMFORT INN ℄ NO. 1

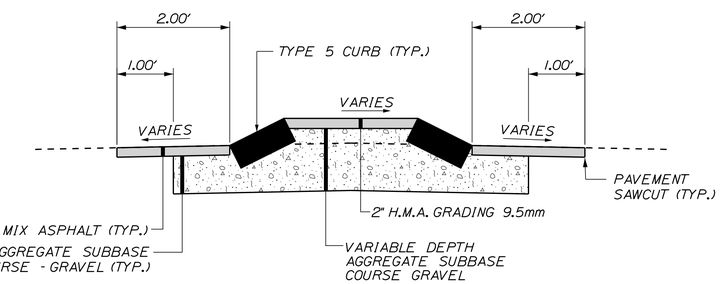
FULL DEPTH CONSTRUCTION
STA. 800+13 TO STA. 801+88



COMFORT INN ℄ NO. 2

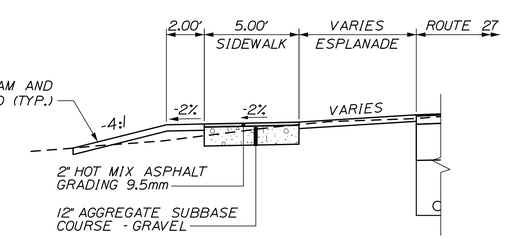
FULL DEPTH CONSTRUCTION
STA. 900+12 TO STA. 901+02

STA. 800+00 TO STA. 800+75, RT.
SEE JOINT FORCES ROAD TYPICAL
FOR SIDEWALK REQUIREMENTS



RAISED MEDIAN DETAIL

COMFORT INN ENTRANCE
STA. 121+06 TO STA. 121+29 LT.



JOINT FORCES WALKWAY DETAIL

STA. 117+21 TO STA. 118+44 LT.

NOT TO SCALE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

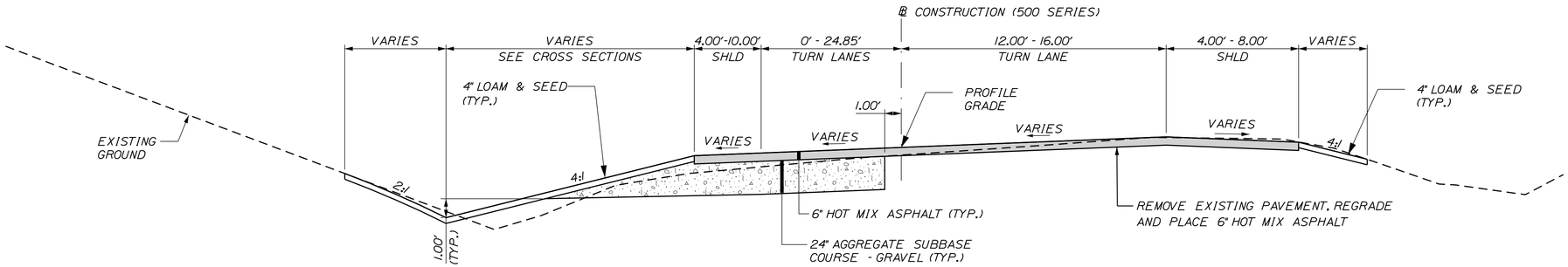
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

TYPICAL SECTIONS

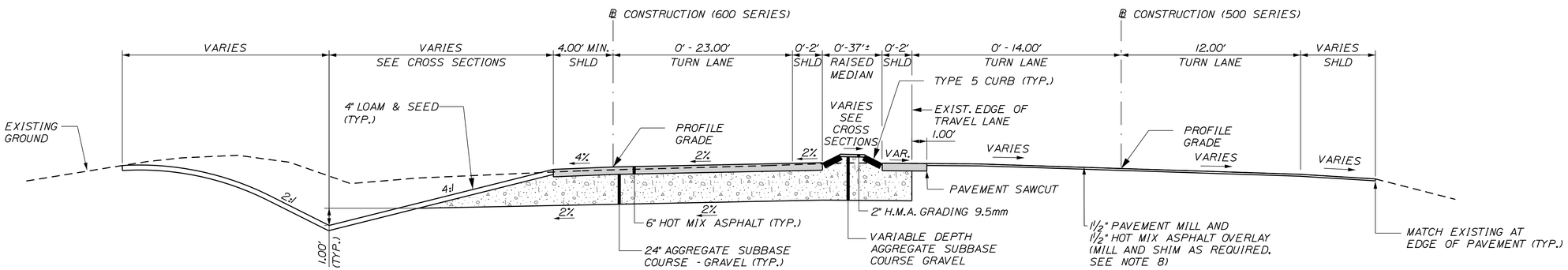
SHEET NUMBER
3
OF 50

Filename: ...\00\Highway\003_Typical.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



195 SB OFF RAMP

PARTIAL/FULL DEPTH RECONSTRUCTION
STA. 502+00 TO STA. 504+25



195 SB OFF RAMP

WIDENING, PAVEMENT MILL AND OVERLAY
STA. 500+20 TO STA. 502+00
STA. 600+00 TO STA. 602+43

NOTES:

1. SEE SHEET 2 FOR TYPICAL SECTION NOTES.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
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CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04.16
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REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

TYPICAL SECTIONS

SHEET NUMBER
4
OF 50

Filename: ...\00\Highway\004_Typical.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE NOTED IN SPECIAL PROVISION 104.

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

3. THE LOCATION OF THE EXISTING UTILITIES AND DRAINAGE SHOWN ON THE PLANS AND CROSS SECTIONS WERE COMPILED FROM FIELD SURVEY AND OTHER SOURCES. LOCATIONS ARE APPROXIMATE AND NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED.

5. FOR EASEMENTS, CONSTRUCTION LIMITS, AND RIGHT-OF-WAY LINES, REFER TO RIGHT OF WAY PLANS.

6. CLEARING LIMITS SHALL BE 5' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

7. 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.

8. STUMPS HAVE BEEN ESTIMATED TO BE REMOVED UNDER ITEM 201.24 REMOVE STUMP. HOWEVER, WHERE DIRECTED BY THE RESIDENT, ITEM 631.20 STUMP CHIPPER RENTAL MAY BE USED TO REMOVE STUMPS.

9. THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON FINAL COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT. SHOULDER EDGES SHALL BE GRADED AS NECESSARY WITHIN LIMITS OF OVERLAY. PAYMENT FOR LOAM, SEED AND MULCH SHALL BE PAID FOR UNDER THE RESPECTIVE PAY ITEMS.

10. THE PAVEMENT SAW CUT LINES ARE DEFINED ON THE TYPICAL SECTIONS. CONTRACTOR SHALL NOTE THE PAVEMENT SAW CUT LIMITS ARE PROVIDED FOR RECONSTRUCTION AREAS ONLY AND ARE NOT SHOWN FOR PROPOSED DRAINAGE WORK OR EXISTING DRAINAGE REMOVAL WORK IN THE PAVEMENT OVERLAY AREAS.

11. ANY NECESSARY FINE GRADING OR RECOMPACTION OF EXISTING GRAVEL SHALL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 304.10.

12. PAVEMENT CUT LINES SHALL BE NEAT, CLEAN AND STRAIGHT AS DIRECTED BY THE RESIDENT. PAYMENT FOR CUTTING OF EXISTING PAVEMENT SHALL BE INCIDENTAL TO 403 ITEMS.

13. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY" U.S.D.O.T. F.H.W.A. LATEST EDITION.

14. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN APPROVED WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.

15. 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.

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

17. ENTRANCES SHALL BE CONSTRUCTED WITH:

RESIDENTIAL PAVED:	2" HOT MIX ASPHALT - GRADING 9.5mm 12" AGGREGATE SUBBASE COURSE - GRAVEL
COMMERCIAL PAVED:	3" HOT MIX ASPHALT - GRADING 9.5mm 11" AGGREGATE SUBBASE COURSE - GRAVEL
UNPAVED:	14" AGGREGATE SUBBASE COURSE - GRAVEL

18. A 3' PAVED LIP SHALL BE PLACED AT ALL GRAVEL ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

19. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.

20. CATCH BASIN AND RIM ELEVATIONS NOTED ON THE CROSS SECTIONS ARE THE TOP OF GRATE ELEVATIONS AT THE CENTER OF GRATE. CATCH BASIN OFFSET LOCATIONS ARE MEASURED TO THE CENTER OF THE GRATE.

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

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

23. REMOVAL OF EXISTING DRAINAGE PIPES, AS NOTED ON THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.20, COMMON EXCAVATION.

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

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

26. 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.

27. BACKING UP BITUMINOUS CURB IS INCIDENTAL TO THE CURB ITEMS. IF DIRECTED, LOAM OR DIRTY BORROW WILL BE PAID FOR SEPARATELY.

28. REMOVAL OF EXISTING CURBING SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.20 - COMMON EXCAVATION.

29. LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DIRECTED BY THE RESIDENT.

30. 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 SLOPES.

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

32. EXTENDED-USE EROSION CONTROL BLANKET, SEEDED GUTTERS, RIPRAP DOWNSPOUTS, AND OTHER GUTTERS LINED WITH STONE DITCH PROTECTION SHALL BE CONSTRUCTED AFTER PAVING AND SHOULDER WORK IS COMPLETED. WHERE IT IS APPARENT THAT RUNOFF WILL CAUSE CONTINUAL EROSION, PAYMENT WILL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

33. 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.

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

35. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

36. REMOVAL OF EXISTING ROADSIDE SIGNS AND RELOCATION OF ROADSIDE SIGNS/POSTS AS NOTED ON THE SIGNING PLANS, SHALL BE CONSIDERED INCIDENTAL TO THE 645 PAY ITEMS.

37. DO NOT EXCAVATE FOR AGGREGATE SUBBASE COURSE GRAVEL WHERE EXISTING MATERIAL IS SUITABLE AS DETERMINED BY THE RESIDENT.

38. IN AREAS WHERE THE RESIDENT DIRECTS THE CONTRACTOR NOT TO EXCAVATE TO THE SUBGRADE LINE SHOWN ON THE PLANS, PAYMENT FOR REMOVING EXISTING PAVEMENT, GRUBBING, SHAPING, DITCHING, AND COMPACTING THE EXISTING SUBBASE AND LAYERS OF NEW SUBBASE 6 INCHES OR LESS THICK WILL BE MADE UNDER APPROPRIATE EQUIPMENT RENTAL ITEMS.

39. MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION (MDEP) DATA BASE REVIEW SUGGESTED SIGNIFICANT PETROLEUM CONTAMINATION ISSUES IN THE VICINITY OF THE PROJECT. IN PARTICULAR ROUGHLY BETWEEN MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STATION 201+75 TO MAINEDOT STATION 202+00 RIGHT OF CENTER AND BETWEEN ROUGHLY MAINEDOT STATIONS 119+00 TO 120+00 RIGHT OF CENTER. THIS IS IN THE VICINITY OF THE IRVING MAINWAY RETAIL GASOLINE STATION. THE SCOPE OF WORK FOR THIS PROJECT SUGGESTS PETROLEUM OR HAZARDOUS WASTE SHOULD NOT BE ENCOUNTERED. HOWEVER, IN LIGHT OF THE REPORTED SPILLS, THE CONTRACTOR SHALL EMPLOY APPROPRIATE HEALTH AND SAFETY MEASURES TO PROTECT ITS WORKERS AGAINST HAZARDS ASSOCIATED WITH WORKING NEAR PETROLEUM-IMPACTED SOILS. FURTHERMORE, THE CONTRACTOR SHALL REMAIN ALERT FOR ANY EVIDENCE OF CONTAMINATION. IF THE CONTRACTOR ENCOUNTERS EVIDENCE OF SOIL OR GROUNDWATER CONTAMINATION, THE CONTRACTOR SHALL SECURE THE EXCAVATION, STOP WORK IN THE CONTAMINATED AREA, AND IMMEDIATELY NOTIFY THE RESIDENT. THE RESIDENT SHALL CONTACT THE MDEP AT 800-482-0777 AND THE SENIOR GEOLOGIST AT MAINEDOT AT 207 624-3004. WORK MAY ONLY CONTINUE WITH AUTHORIZATION FROM THE RESIDENT.

40. 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.

41. 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.

42. AI-C AND BI-C CATCH BASINS SHALL BE SHAPE 1 WITH HAUNCHED CONE, AS PER STANDARD DETAIL 604(02), UNLESS OTHERWISE NOTED ON THE PLANS.

43. PLASTIC END CAPS SHALL BE USED ON ALL DEAD-END 6-INCH TYPE B UNDERDRAIN.

44. 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.

45. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO ALLOW FOR PROPOSED PIPE CONNECTIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 603 OR 605.

46. 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.

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

48. ALL SIGNING AND STRIPING MATERIALS AND PLACEMENT SHALL CONFORM TO THE MAINE DOT STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS, NOVEMBER 2014, AND WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", MOST CURRENT EDITION.

49. ALL PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED MARKINGS SHALL BE REMOVED IN ACCORDANCE WITH MAINE DOT SPECIFICATIONS.

50. FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING PLAN IN THE CONTRACT DOCUMENTS. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

GENERAL NOTES

SHEET NUMBER

5

OF 50

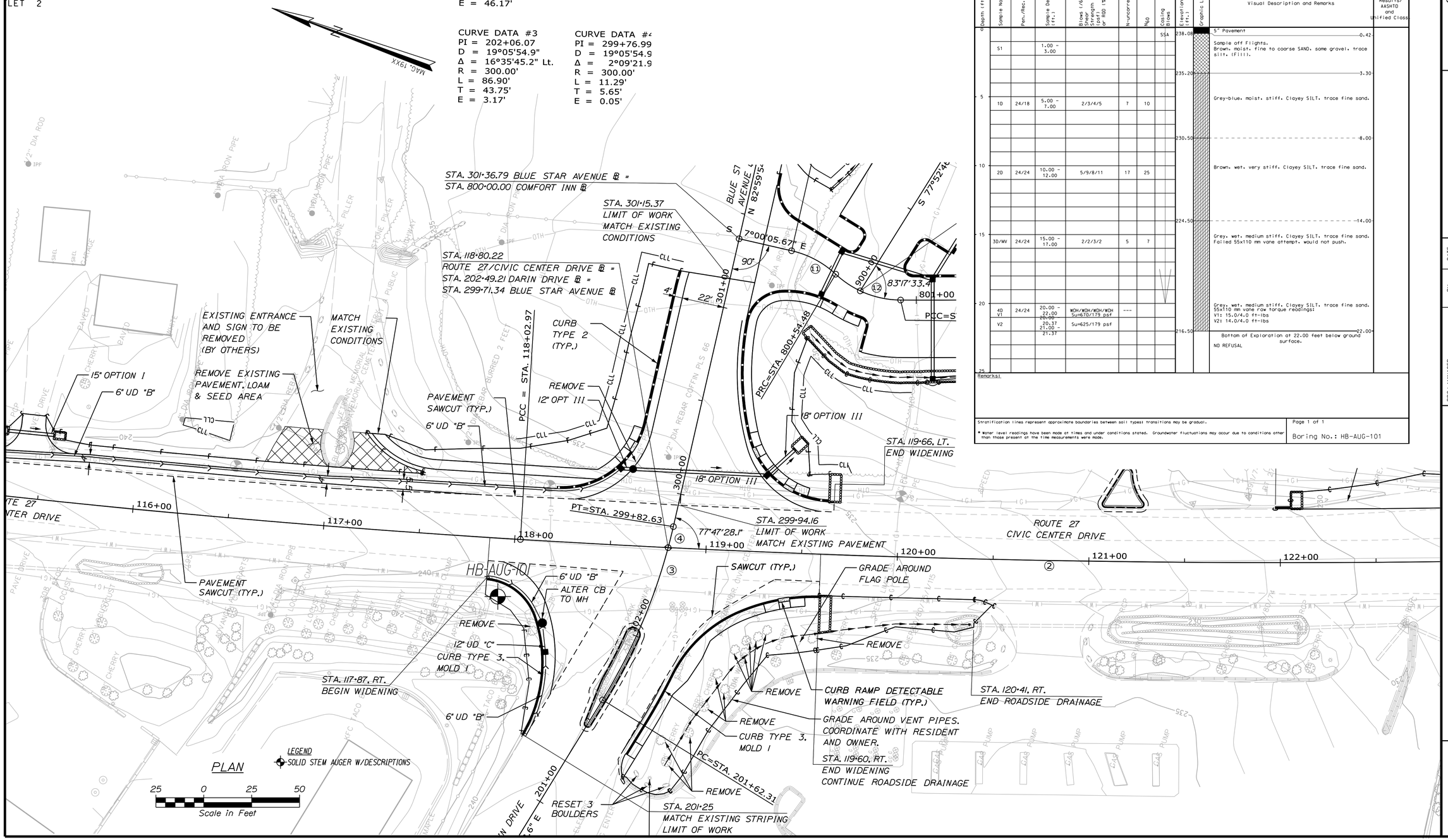
Filename: ...\Highway\005_GeneralNotes.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

Foundations for signals shall be based on Standard Details 626(03) and 626(04) Charts S600-1, S600-2 and S600-3 for soils with Su=600 psf.

CURVE DATA #5
PI = 304+64.41
D = 13°28'52.9"
Δ = 51°09'03.1" Lt.
R = 425.00'
L = 379.42'
T = 203.40'
E = 46.17'

CURVE DATA #3
PI = 202+06.07
D = 19°05'54.9"
Δ = 16°35'45.2" Lt.
R = 300.00'
L = 86.90'
T = 43.75'
E = 3.17'

CURVE DATA #4
PI = 299+76.99
D = 19°05'54.9
Δ = 2°09'21.9
R = 300.00'
L = 11.29'
T = 5.65'
E = 0.05'



Maine Department of Transportation
Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 27 & Darin Road
Location: Augusta, Maine

Boring No.: HB-AUG-101
WIN: 20568.00

Driller:	MaineDOT	Elevation (ft.) 238.5	Auger ID/OD: 5" Dia.
Operator:	Giles/Doggett/Giles	Datum: NAVD88	Sampler: Standard Split Spoon
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: 140#/30"
Date Start/Finish:	9/25/2014; 08:30-11:30	Drilling Method: Solid Stem Auger	Core Barrel: N/A
Boring Location:	117+93, 30.5 ft Rt.	Casing ID/OD: N/A	Water Level*: 15.0 ft bgs.
Hammer Efficiency Factor: 0.879		Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Cathead ☐	

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample attempt
V = Insitu Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Insitu Vane Shear Test attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = weight of 140lb. hammer
WOR/C = weight of rods or casing
WO1P = Weight of one person
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw field SPT N-value
Hammer Efficiency Factor = Annual Calibration Value
N_{60} = SPT N-uncorrected corrected for hammer efficiency
N_{60} = (Hammer Efficiency Factor/60%)*N-uncorrected
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WC = water content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
0							SSA	238.08		5" Pavement — 0.42	
	S1		1.00 - 3.00							Sample off Flights. Brown, moist, fine to coarse SAND, some gravel, trace silt. (Fill).	
								235.20		3.30	
5	1D	24/18	5.00 - 7.00	2/3/4/5	7	10				Grey-blue, moist, stiff, Clayey SILT, trace fine sand.	
								230.50		8.00	
10	2D	24/24	10.00 - 12.00	5/9/8/11	17	25				Brown, wet, very stiff, Clayey SILT, trace fine sand.	
								224.50		14.00	
15	3D/MV	24/24	15.00 - 17.00	2/2/3/2	5	7				Grey, wet, medium stiff, Clayey SILT, trace fine sand. Failed 55x110 mm vane attempt, would not push.	
20	4D V1	24/24	20.00 - 22.00 20.00	WOH/WOH/WOH/WOH Su=670/179 psf	---					Grey, wet, medium stiff, Clayey SILT, trace fine sand. 55x110 mm vane raw torque readings: V1: 15.0/4.0 ft-lbs V2: 14.0/4.0 ft-lbs	
	V2		20.37 21.00 - 21.37	Su=625/179 psf							
								216.50		22.00 Bottom of Exploration at 22.00 feet below ground surface. NO REFUSAL	
25											

Remarks:

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-AUG-101

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 020568.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER		
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2	K.MAGUIRE	FEB 2016
DESIGN3-DETAILED3	T.WHITE	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DAREN DRIVE
BORING LOCATION PLAN & BORING LOG

SHEET NUMBER
6
OF 50

Filename: ...\006_BLP&BL1.dgn
Division: HIGHWAY
Username: mcundiff
Date:4/13/2016

Foundations for signals shall be based on Standard Details 626(03) and 626(04) Charts S600-1, S600-2 and S600-3 for soils with Su=600 psf.

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 27 & Darin Road
Location: Augusta, Maine

Boring No.: HB-AUG-201
WIN: 20568.00

Driller:	Northern Test Boring	Elevation (ft.)	228.5	Auger ID/OD:	2.75-6.25"
Operator:	Mike/Adam	Datum:	NAVD88	Sampler:	Standard Split Spoon
Logged By:	B. Wilder	Rig Type:	Diedrich D-50	Hammer Wt./Fall:	140#/30"
Date Start/Finish:	1/20/2016; 08:30-11:00	Drilling Method:	Hollow Stem Auger	Core Barrel:	N/A
Boring Location:	127+32, 44.0 ft Lt.	Casing ID/OD:	N/A	Water Level*:	None Observed
Hammer Efficiency Factor: 0.9901		Hammer Type:	Automatic ☒ Hydraulic ☐ Rope & Cathead ☐		

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample attempt
V = Insitu Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Insitu Vane Shear Test attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = weight of 140lb. hammer
WOR/C = weight of rods or casing
WOP = Weight of one person
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw field SPT N-value
Hammer Efficiency Factor = Annual Calibration Value
N_{60} = SPT N-uncorrected corrected for hammer efficiency
N_{60} = (Hammer Efficiency Factor/60%)*N-uncorrected
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WC = water content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%))	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
0	1D	24/18	0.00 - 2.00	3/2/3/9	5	8	HSA	228.17	4" Topsoil (0.33)	
									Brown, moist, medium stiff, fine to medium Sandy SILT.	
								224.50 (4.00)		
5	2D	24/16	5.00 - 7.00	2/1/2/2	3	5			Olive-brown, wet, medium stiff, Clayey SILT, little fine sand.	
								220.00 (8.50)		
10	3D	24/20	10.00 - 12.00	2/2/3/3	5	8			Light brown, moist, medium stiff, Clayey SILT, trace fine sand.	
15	4D	24/24	15.00 - 17.00	2/3/3/3	6	10			Similar to above.	
								210.50 (18.00)		
20	5D	24/24	20.00 - 22.00	2/2/2/3	4	7			Grey, wet, medium stiff, Clayey SILT, trace fine sand.	
	6D/MV	13.2/9	22.00 - 23.10	3/6/25(1.2")	---				Failed vane attempt, would not push.	
								205.80 (22.70)	Grey, wet, medium dense, Silty, fine to medium SAND.	
25								205.40 (23.10)	Bottom of Exploration at 23.10 feet below ground surface. REFUSAL, good bounce on hammer.	

Remarks:

Stratification lines represent approximate boundaries between soil typest transitions may be gradual.

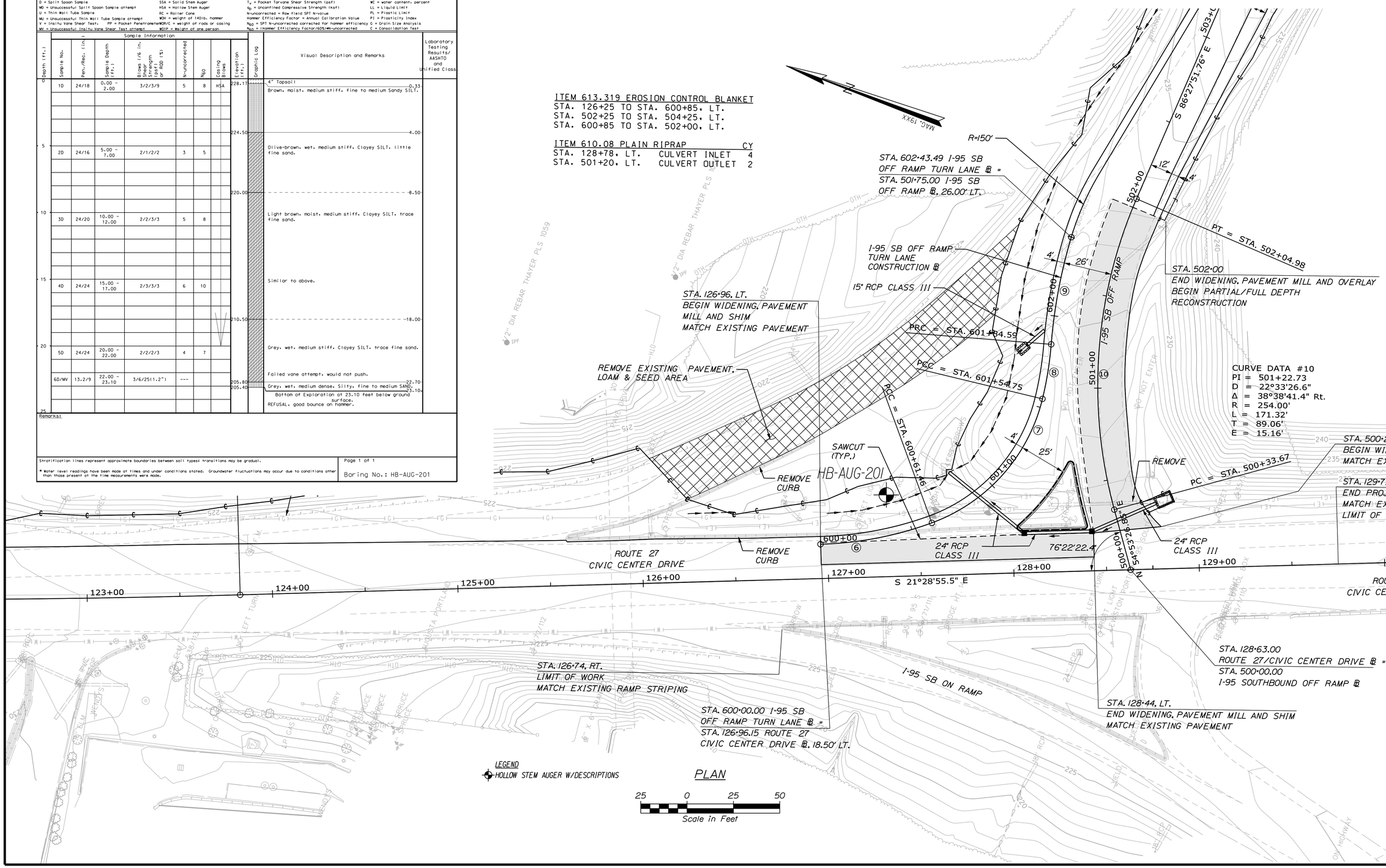
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: HB-AUG-201

ITEM 613.319 EROSION CONTROL BLANKET
STA. 126+25 TO STA. 600+85, LT.
STA. 502+25 TO STA. 504+25, LT.
STA. 600+85 TO STA. 502+00, LT.

ITEM 610.08 PLAIN RIPRAP		CY
STA. 128+78, LT.	CULVERT INLET	4
STA. 501+20, LT.	CULVERT OUTLET	2



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 020568.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER		
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2	K.MACUIRE	FEB 2016
DESIGN3-DETAILED3	T.WHITE	FEB 2016
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
P.E. NUMBER
DATE

AUGUSTA
ROUTE 27 & DAREN DRIVE

BORING LOCATION PLAN
& BORING LOG

SHEET NUMBER
7
OF 50

Filename: ...\007_BLP&BL2.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

ITEM 610.08 PLAIN RIPRAP CY
STA. 115+31, LT. CULVERT INLET 2
STA. 115+55, LT. CULVERT OUTLET 2

DRIVES AND ENTRANCES
STATION TYPE
STA. 115+44, LT. PAVED

JOINT FORCES WALKWAY (BY OTHERS)

STA. 111+00
BEGIN PROJECT NO. STP-2056(800)
MATCH EXISTING STRIPING
LIMIT OF WORK

PC = STA. 110+00.00

CURVE DATA #1
PI = 114+02.13
D = 0°59'16.3"
Δ = 7°55'55.9" Lt.
R = 5800.00'
L = 802.97'
T = 402.13'
E = 13.92'

GERALD DUPLESSIS

STA. 114+92, LT.
BEGIN WIDENING

CARL VANDER PUTTEN

EXISTING ENTRANCE AND SIGN TO BE REMOVED (BY OTHERS)

MATCH EXISTING CONDITIONS

REMOVE EXISTING PAVEMENT, LOAM & SEED AREA

15" OPTION 1

6" UD "B"

ROUTE 27
CIVIC CENTER DRIVE

PAVEMENT SAWCUT (TYP.)

KENNEBEC SAVINGS BANK

SS REALTY, LLC

GGG ASSO. LIMITED PARTNERSHIP

STA. 117+87, RT.
BEGIN WIDENING

110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00

25 0 25 50
Scale of Feet

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

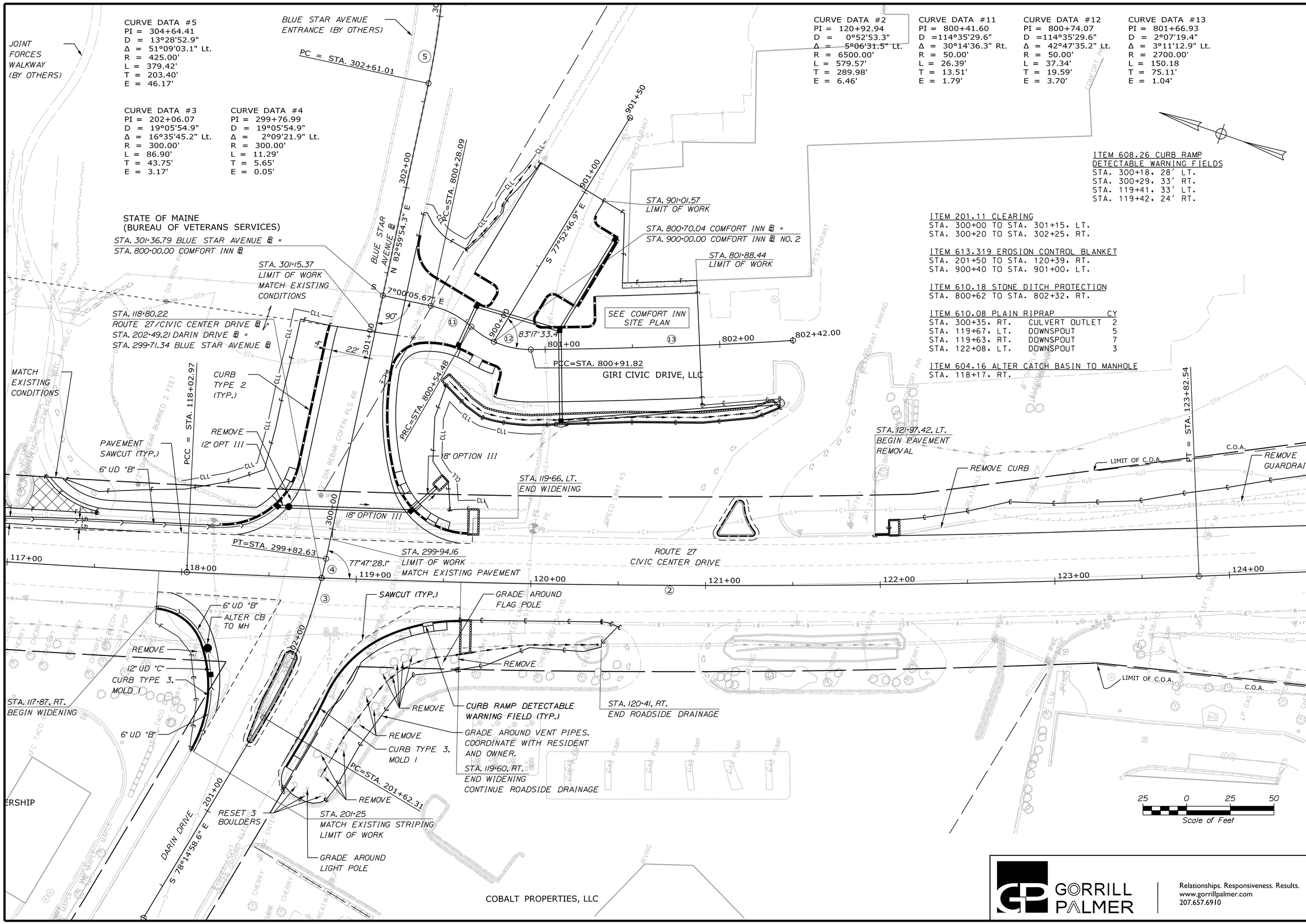
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

HIGHWAY PLANS

SHEET NUMBER
8
OF 50

Filename: ...\00\Highway\008_Plan01.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-20056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE
HIGHWAY PLANS

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SHEET NUMBER
9
OF 50

Filename: ...\00\Highway\009_Plan02.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

NOTES:
1. EXISTING DELINEATORS ALONG SOUTHBOUND OFF RAMP TO BE REMOVED AND RESET TO MATCH EXISTING SPACING. PAYMENT INCIDENTAL TO ITEM 203.20.

CURVE DATA #6
PI = 600+31.00
D = 30°09'20.4"
Δ = 18°32'01.6" Lt.
R = 190.00'
L = 61.46'
T = 31.00'
E = 2.51'

CURVE DATA #7
PI = 601+12.25
D = 60°18'40.8"
Δ = 56°15'50.2" Lt.
R = 95.00'
L = 93.29'
T = 50.79'
E = 12.73'

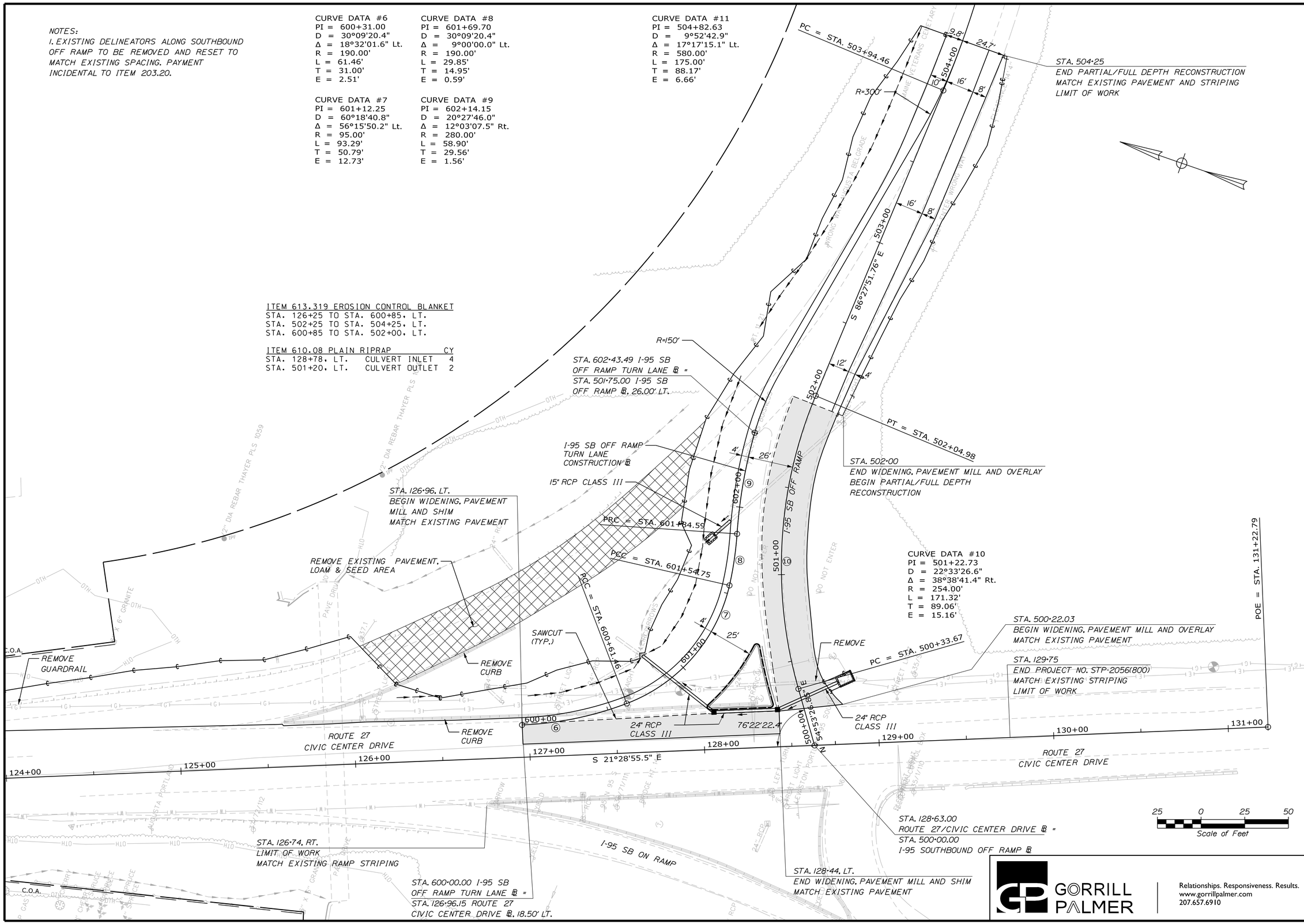
CURVE DATA #8
PI = 601+69.70
D = 30°09'20.4"
Δ = 9°00'00.0" Lt.
R = 190.00'
L = 29.85'
T = 14.95'
E = 0.59'

CURVE DATA #9
PI = 602+14.15
D = 20°27'46.0"
Δ = 12°03'07.5" Rt.
R = 280.00'
L = 58.90'
T = 29.56'
E = 1.56'

CURVE DATA #11
PI = 504+82.63
D = 9°52'42.9"
Δ = 17°17'15.1" Lt.
R = 580.00'
L = 175.00'
T = 88.17'
E = 6.66'

ITEM 613.319 EROSION CONTROL BLANKET
STA. 126+25 TO STA. 600+85, LT.
STA. 502+25 TO STA. 504+25, LT.
STA. 600+85 TO STA. 502+00, LT.

ITEM 610.08 PLAIN RIPRAP		CY
STA. 128+78, LT.	CULVERT INLET	4
STA. 501+20, LT.	CULVERT OUTLET	2



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2056(800)
WIN 20568.00
HIGHWAY PLANS

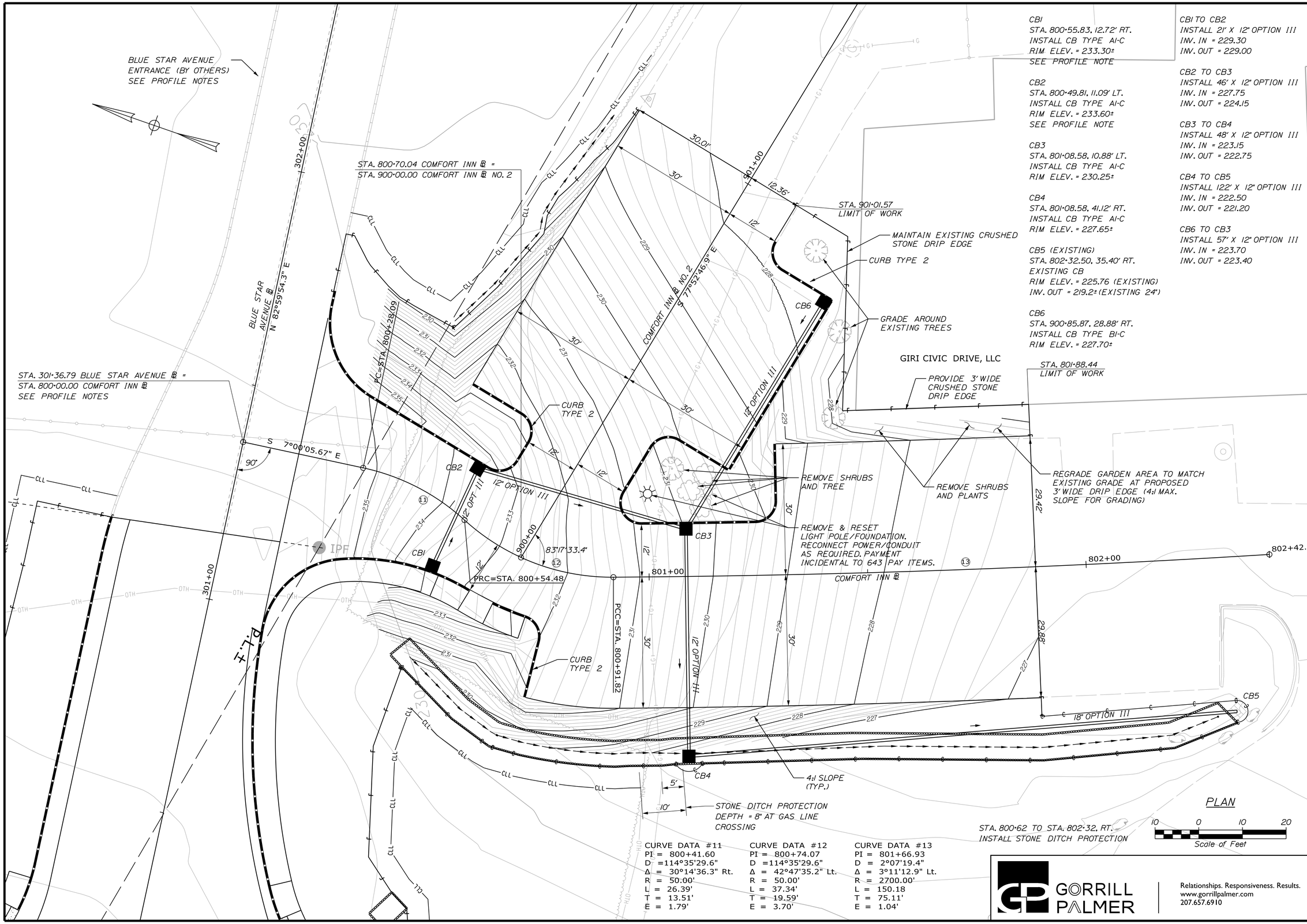
		BY	DATE
PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE
HIGHWAY PLANS

SHEET NUMBER
10
OF 50

Filename: ...\00\Highway\010_Plan03.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



CB1
STA. 800+55.83, 12.72' RT.
INSTALL CB TYPE AI-C
RIM ELEV. = 233.30±
SEE PROFILE NOTE

CB2
STA. 800+49.81, 11.09' LT.
INSTALL CB TYPE AI-C
RIM ELEV. = 233.60±
SEE PROFILE NOTE

CB3
STA. 801+08.58, 10.88' LT.
INSTALL CB TYPE AI-C
RIM ELEV. = 230.25±

CB4
STA. 801+08.58, 41.12' RT.
INSTALL CB TYPE AI-C
RIM ELEV. = 227.65±

CB5 (EXISTING)
STA. 802+32.50, 35.40' RT.
EXISTING CB
RIM ELEV. = 225.76 (EXISTING)
INV. OUT = 219.2± (EXISTING 24")

CB6
STA. 900+85.87, 28.88' RT.
INSTALL CB TYPE BI-C
RIM ELEV. = 227.70±

CB1 TO CB2
INSTALL 21' X 12" OPTION III
INV. IN = 229.30
INV. OUT = 229.00

CB2 TO CB3
INSTALL 46' X 12" OPTION III
INV. IN = 227.75
INV. OUT = 224.15

CB3 TO CB4
INSTALL 48' X 12" OPTION III
INV. IN = 223.15
INV. OUT = 222.75

CB4 TO CB5
INSTALL 122' X 12" OPTION III
INV. IN = 222.50
INV. OUT = 221.20

CB6 TO CB3
INSTALL 57' X 12" OPTION III
INV. IN = 223.70
INV. OUT = 223.40

CURVE DATA #11
PI = 800+41.60
D = 114°35'29.6"
Δ = 30°14'36.3" Rt.
R = 50.00'
L = 26.39'
T = 13.51'
E = 1.79'

CURVE DATA #12
PI = 800+74.07
D = 114°35'29.6"
Δ = 42°47'35.2" Lt.
R = 50.00'
L = 37.34'
T = 19.59'
E = 3.70'

CURVE DATA #13
PI = 801+66.93
D = 2°07'19.4"
Δ = 3°11'12.9" Lt.
R = 2700.00'
L = 150.18
T = 75.11'
E = 1.04'

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

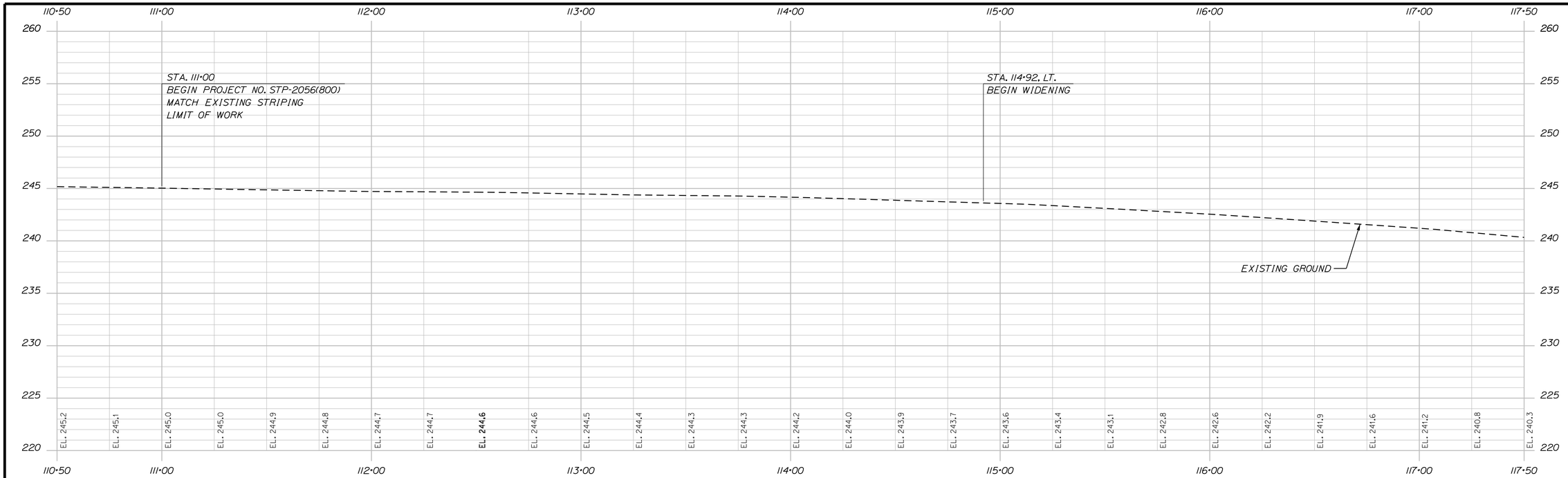
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

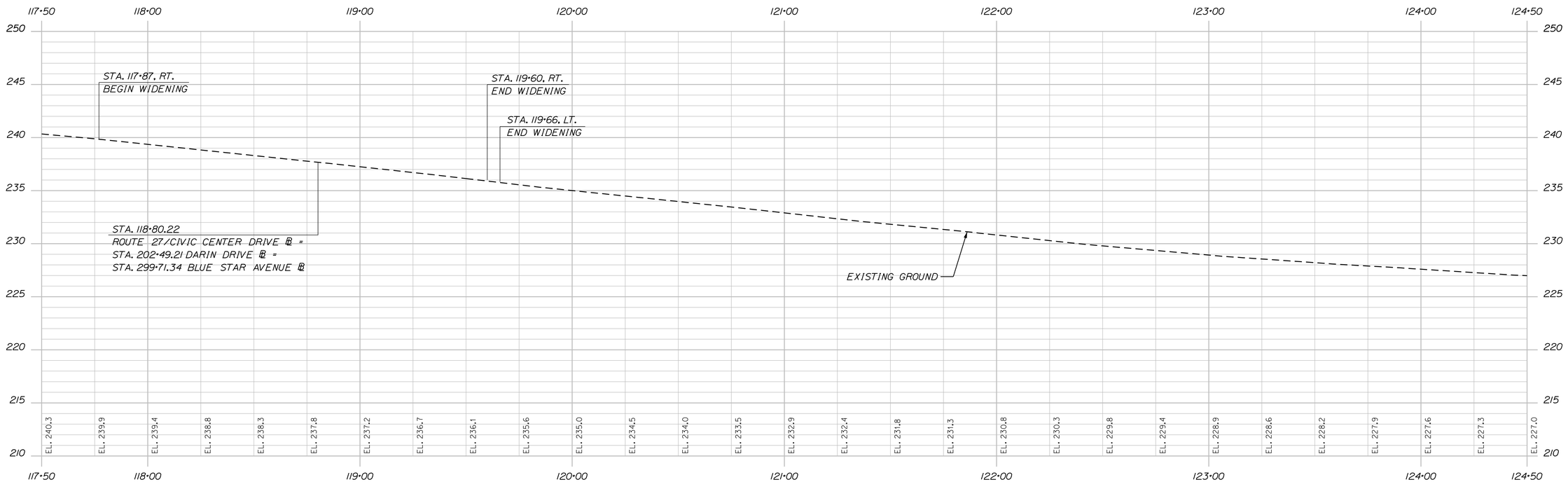
COMFORT INN SITE PLAN

SHEET NUMBER
11
OF 50

Filename: ...\00\Highway\011_SitePlan_01.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



ROUTE 27/CIVIC CENTER DRIVE PROFILE



ROUTE 27/CIVIC CENTER DRIVE PROFILE

Horiz. 25 0 25 50
Vert. 5 0 5 10

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

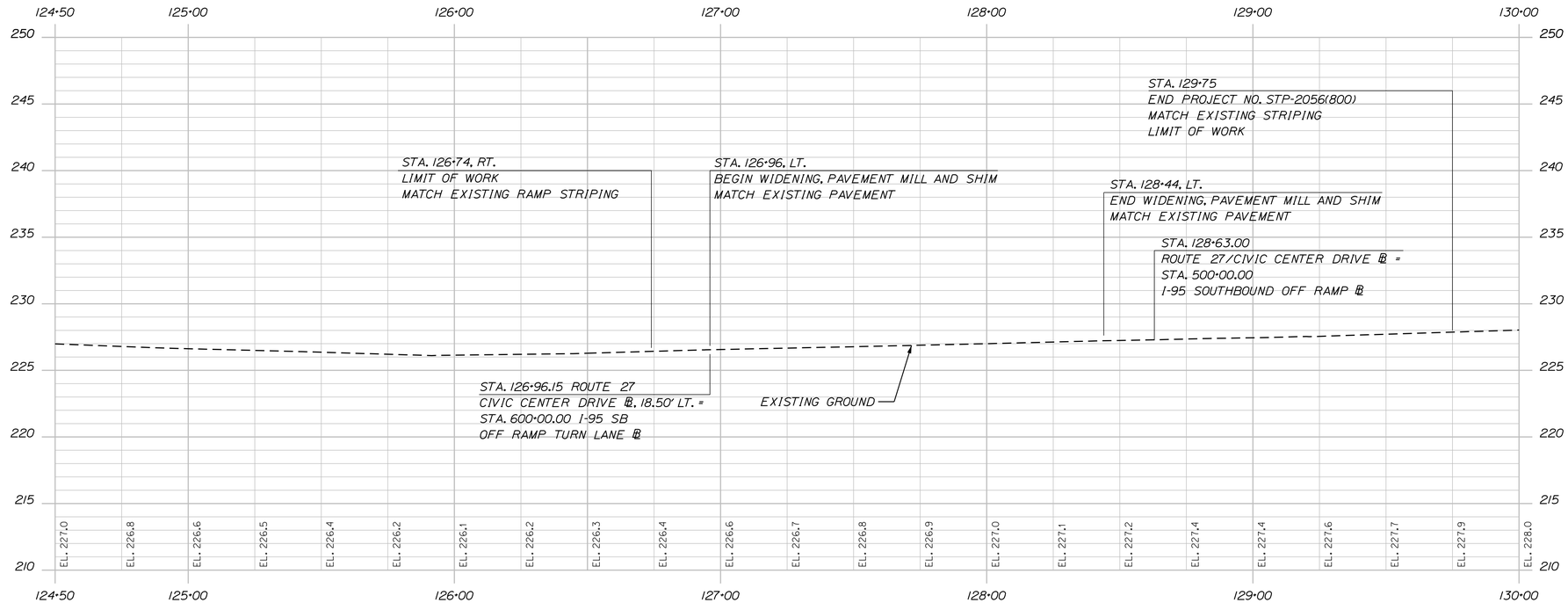
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

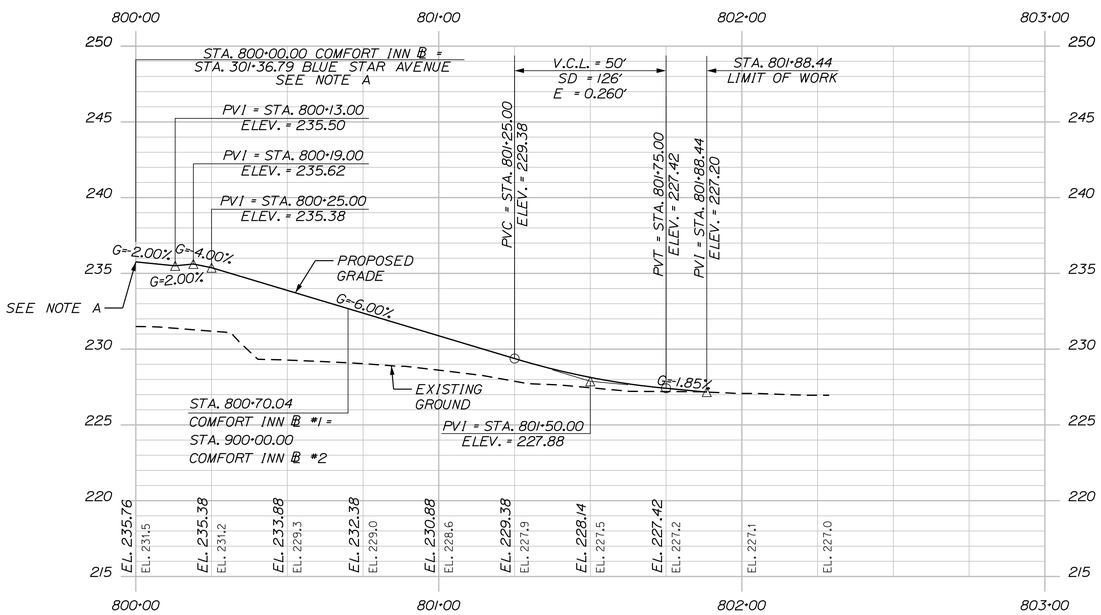
PROFILES

SHEET NUMBER
12
OF 50

Filename: ...\00\Highway\012_Profile_01.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

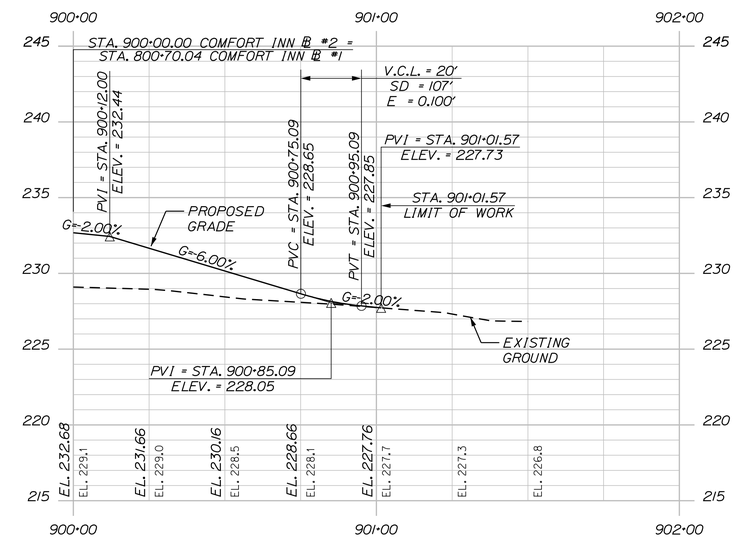


ROUTE 27/CIVIC CENTER DRIVE PROFILE



COMFORT INN PROFILE #1

NOTE A:
BLUE STAR AVENUE ENTRANCE AT STA. 301+36.79 TO BE CONSTRUCTED BY OTHERS. THE ACTUAL PROFILE GRADE OF THE BLUE STAR AVENUE ℄ AT STA. 301+36.79 MAY VARY FROM THIS DESIGN. IF SO, CONTRACTOR SHALL HOLD PERCENT GRADES OF THIS PROFILE FROM STA. 800+00 TO STA. 800+25 BUT CAN VARY THE PROPOSED ELEVATIONS IN THIS AREA. CONTRACTOR MAY VARY THE PERCENT GRADE AND ASSOCIATED ELEVATIONS FROM STA. 800+25 TO STA. 800+70.04 AS NECESSARY. THE PROFILE DESIGN FROM STA. 800+70.04 TO STA. 801+88.44 SHALL REMAIN UNCHANGED. COORDINATE WORK WITH RESIDENT.



COMFORT INN PROFILE #2

Horiz. 25 0 25 50
Vert. 5 0 5 10

GORRILL PALMER
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04/16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04/16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

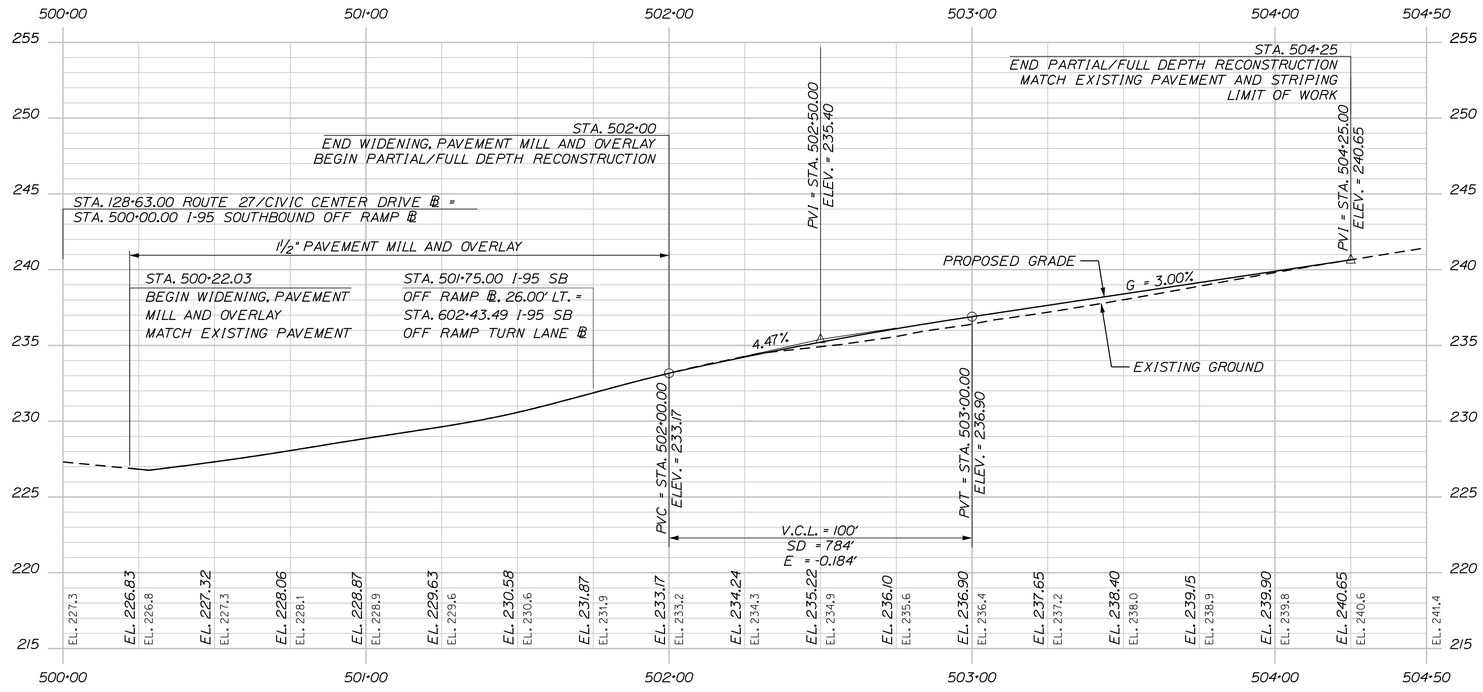
P.E. NUMBER

DATE

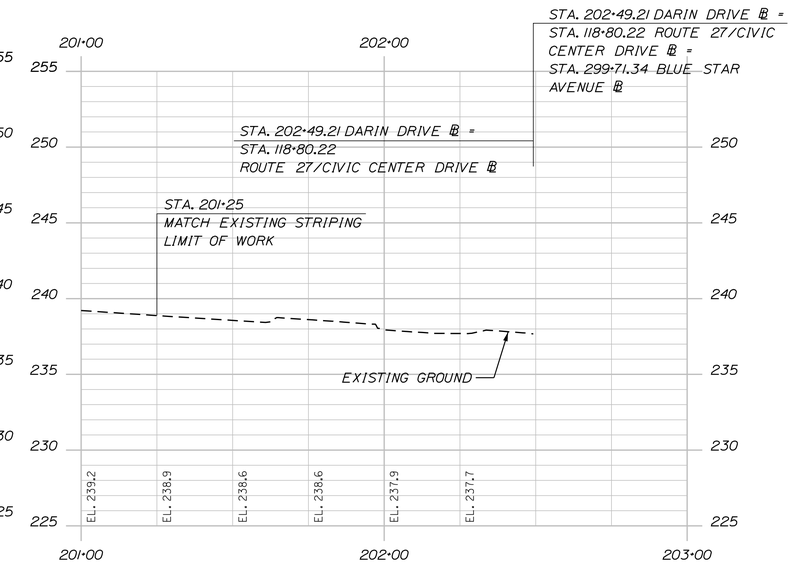
AUGUSTA
ROUTE 27 & DARIN DRIVE
PROFILES

SHEET NUMBER
13
OF 50

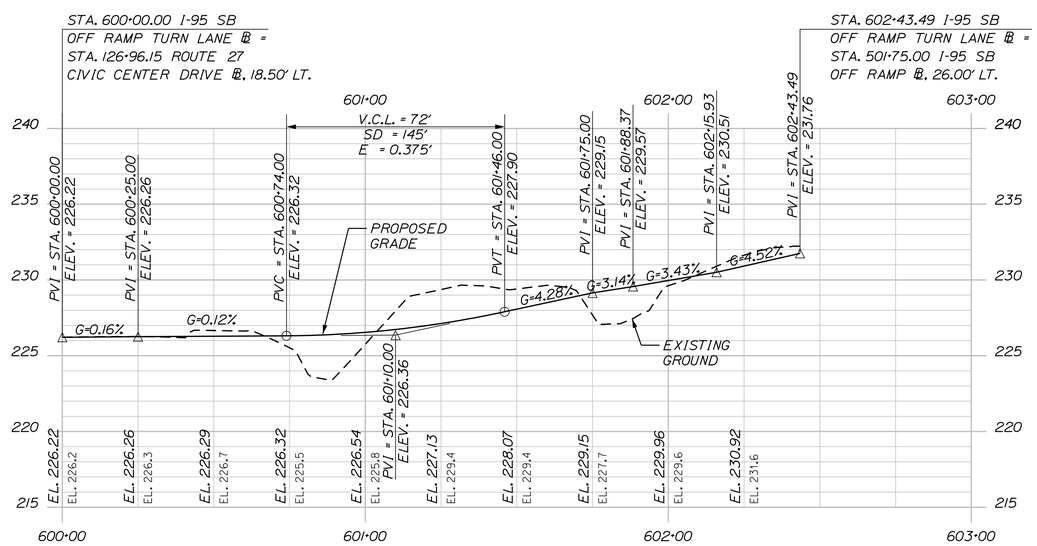
Filename: ...\00\Highway\013_Profile_02.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



I-95 SB OFF RAMP PROFILE

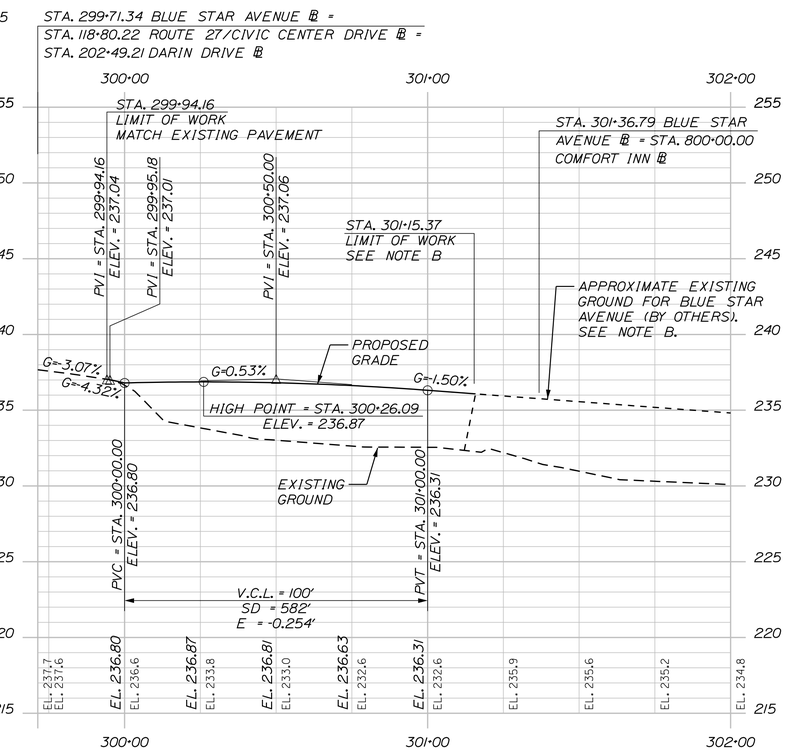


DARIN DRIVE PROFILE



I-95 SB OFF RAMP TURN LANE PROFILE

NOTE B:
BLUE STAR AVENUE ENTRANCE BEYOND STA. 301+15.37 TO BE CONSTRUCTED BY OTHERS. THE ACTUAL PROFILE GRADE OF THE BLUE STAR AVENUE ℄ AT STA. 301+15.37 MAY VARY FROM THIS DESIGN. IF SO, CONTRACTOR SHALL VARY THE PERCENT GRADE AND ASSOCIATED ELEVATIONS FROM STA. 300+50 TO STA. 301+15.37 AS NECESSARY. THE PROFILE DESIGN FROM STA. 300+00 TO STA. 300+50 SHALL REMAIN UNCHANGED. COORDINATE WORK WITH RESIDENT.



BLUE STAR AVENUE PROFILE

Horiz. 25 0 25 50
Vert. 5 0 5 10

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE
PROFILES

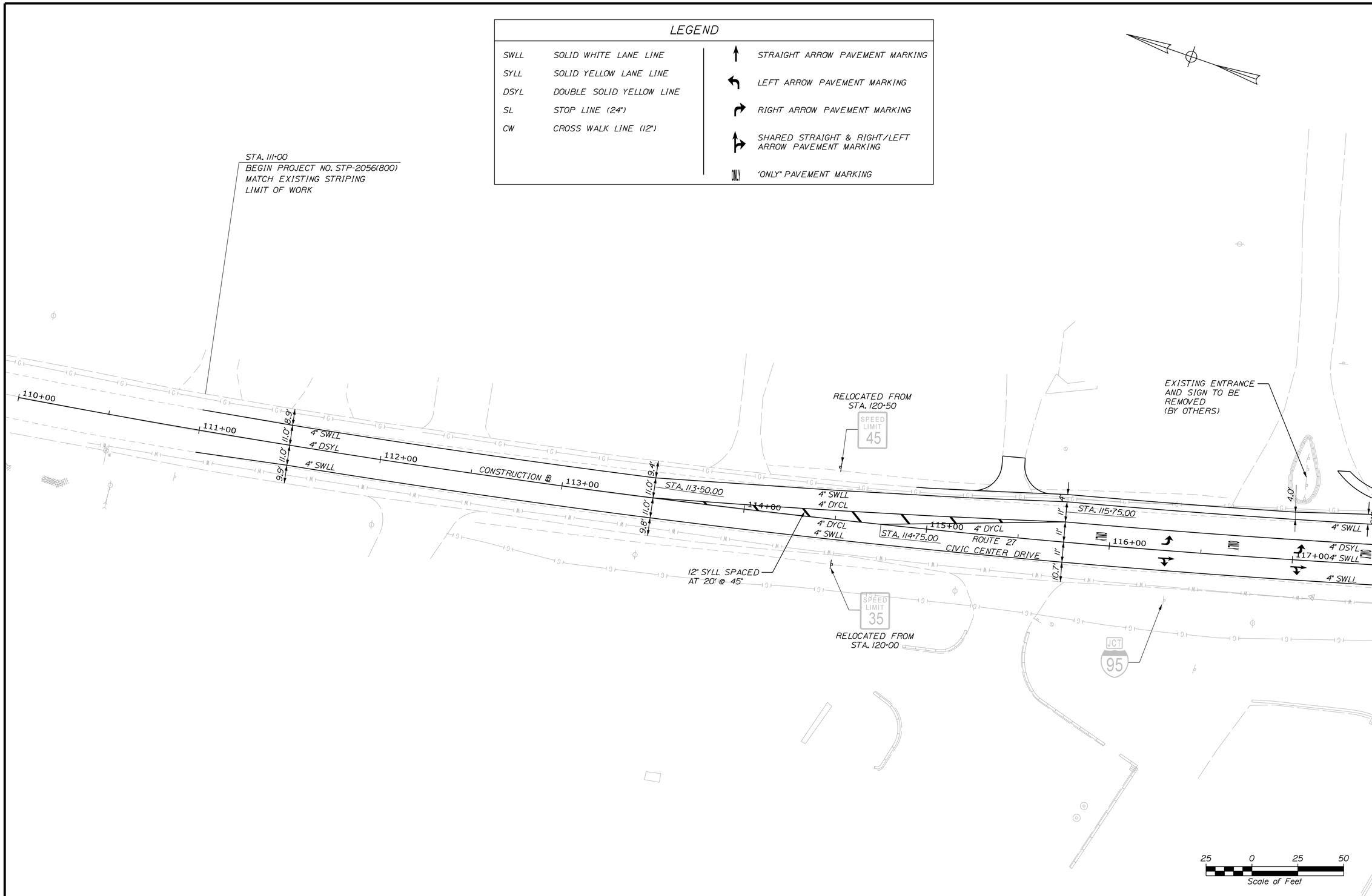
SHEET NUMBER
14
OF 50

Filename: ...\00\Highway\014_Profile_03.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

LEGEND

SWLL	SOLID WHITE LANE LINE
SYLL	SOLID YELLOW LANE LINE
DSYL	DOUBLE SOLID YELLOW LINE
SL	STOP LINE (24")
CW	CROSS WALK LINE (12")

- STRAIGHT ARROW PAVEMENT MARKING
- LEFT ARROW PAVEMENT MARKING
- RIGHT ARROW PAVEMENT MARKING
- SHARED STRAIGHT & RIGHT/LEFT ARROW PAVEMENT MARKING
- ONLY "ONLY" PAVEMENT MARKING



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

		BY	DATE
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CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

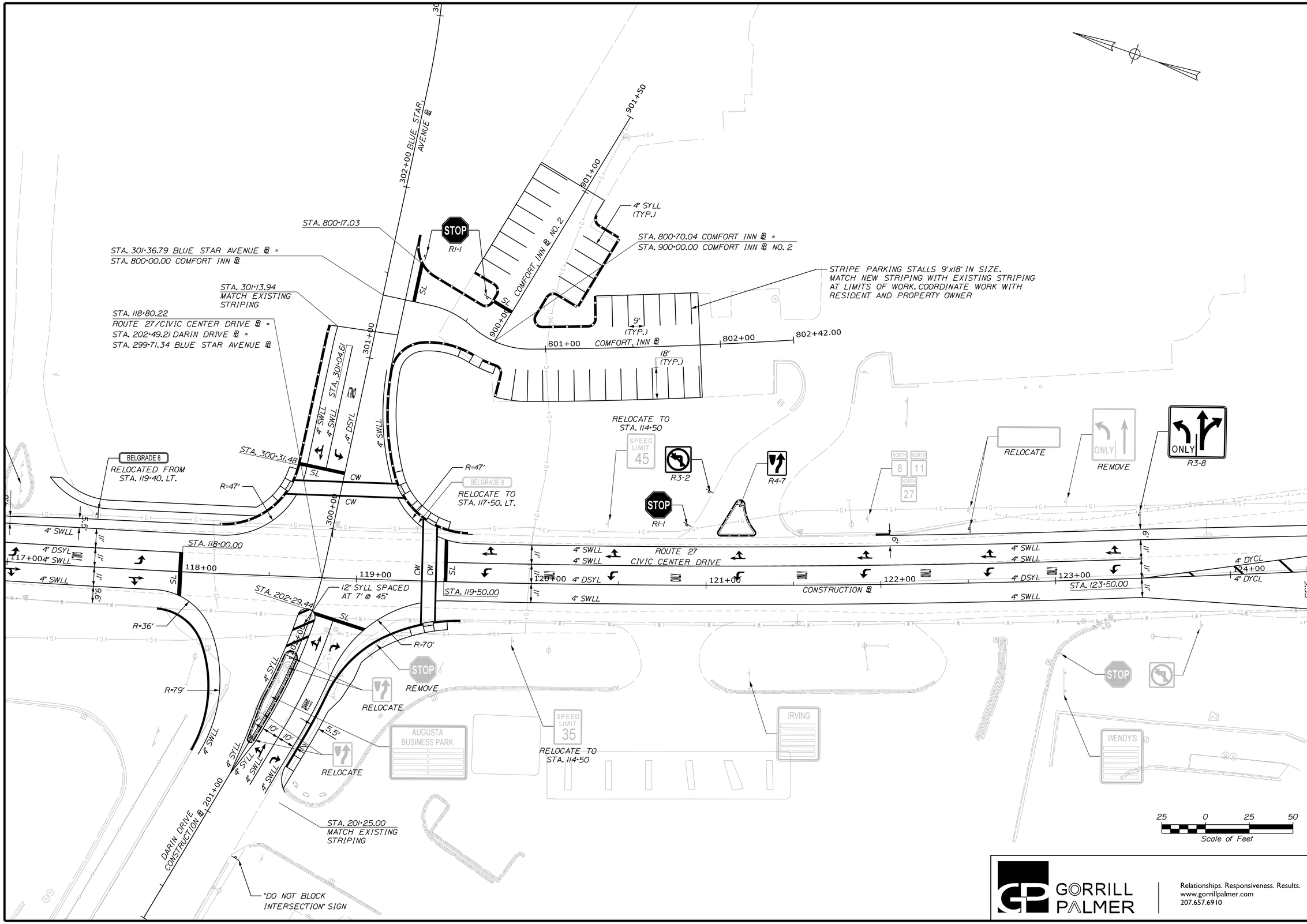
SIGNING & STRIPING PLAN

SHEET NUMBER

15

OF 50

Filename: ...\00\Highway\015_SSPlan_01.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04.16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04.16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

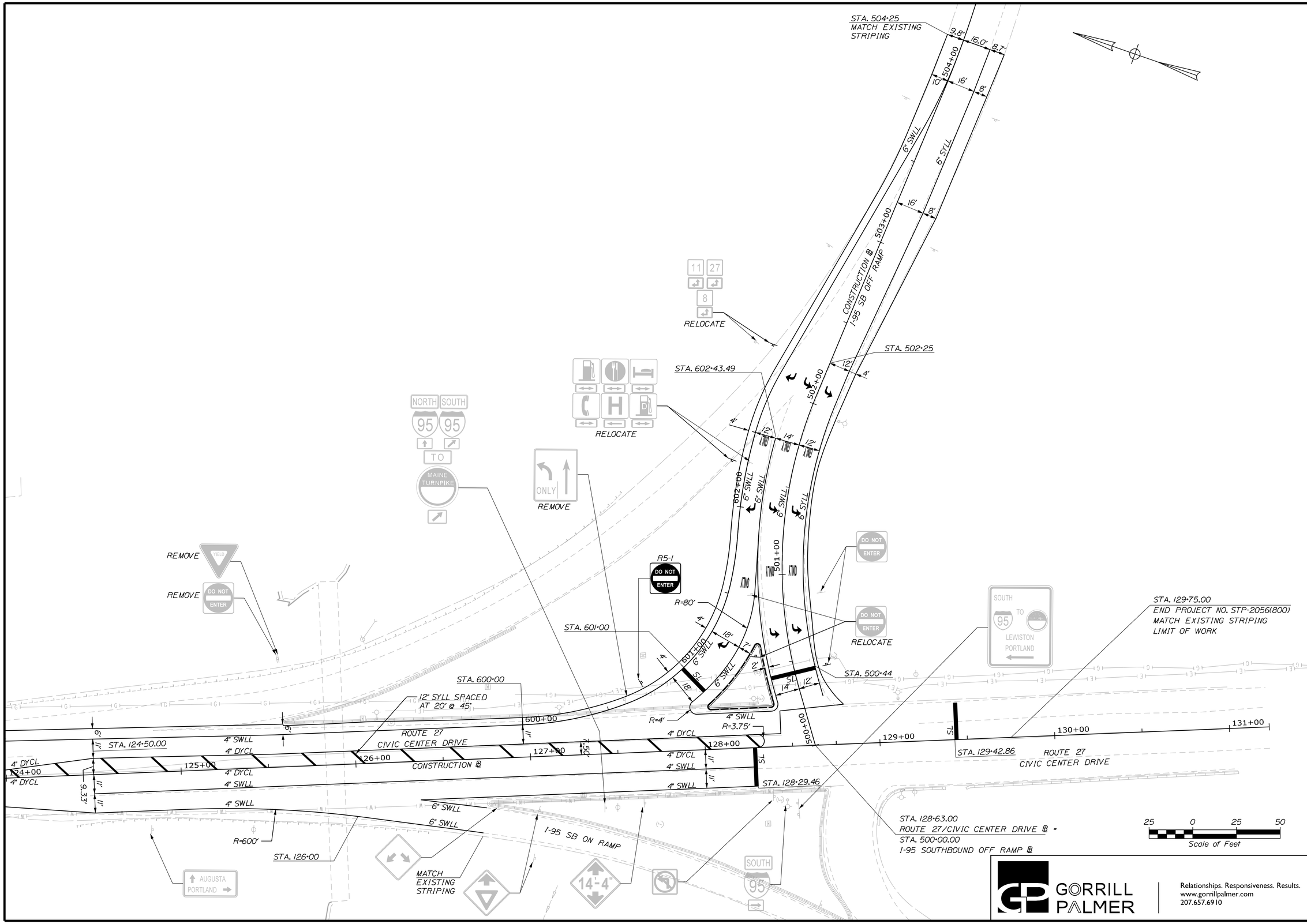
SIGNING & STRIPING PLAN

SHEET NUMBER

16

OF 50

Filename: ...\00\Highway\016_SSPlan_02.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN
20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
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DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

SIGNING & STRIPING PLAN

SHEET NUMBER

17

OF 50

Filename: ...\00\Highway\017_SSPlan_03.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

Offset Point	Baseline Station	Offset (ft)	Offset Point Northing	Offset Point Easting
100	299+88.44	-63.71	553302.346	1135614.922
101	300+08.44	-33.19	553274.497	1135638.494
102	300+15.51	-29.47	553271.667	1135645.965
103	300+21.18	-27.54	553270.438	1135651.833
104	300+29.05	-26.16	553270.031	1135659.812
105	300+32.84	-26.00	553270.334	1135663.592
106	301+04.61	-26.00	553279.083	1135734.829
107	301+13.67	-25.59	553279.779	1135743.867
108	300+32.84	-71.00	553314.998	1135658.107
109	300+05.18	-35.51	553276.398	1135634.976
110	300+13.29	76.58	553166.138	1135656.688
111	300+12.45	68.63	553173.922	1135654.885
112	300+12.56	64.63	553177.903	1135654.508
113	300+13.84	56.75	553185.886	1135654.820
114	300+15.71	51.05	553191.768	1135655.979
115	300+19.34	43.94	553199.273	1135658.719
116	300+21.62	40.65	553202.814	1135660.578
117	300+27.00	34.74	553209.331	1135665.199
118	300+31.68	30.99	553213.626	1135669.382
119	300+38.60	27.01	553218.419	1135675.774
120	300+95.67	13.09	553239.192	1135730.715
121	800+27.60	21.18	553227.225	1135752.275
122	800+57.64	13.14	553204.966	1135756.140
123	800+63.97	12.00	553197.049	1135755.057
124	800+68.80	12.00	553191.135	1135754.057
125	800+75.26	12.00	553183.152	1135753.620
126	800+78.99	16.81	553178.121	1135749.043
127	800+78.99	30.00	553177.007	1135735.903
128	800+76.32	66.22	553180.148	1135699.452
129	800+52.09	39.20	553219.440	1135733.853
130	800+63.97	62.00	553207.762	1135706.219
131	800+75.26	17.00	553183.103	1135748.620
132	800+13.00	-34.94	553248.553	1135806.197
133	800+26.48	-16.03	553232.873	1135789.075
134	800+51.31	-12.44	553202.272	1135782.551
135	800+54.46	-18.18	553196.341	1135786.391
136	800+53.80	-23.10	553195.291	1135791.280
137	800+50.04	-27.33	553199.137	1135797.220
138	800+41.61	-27.04	553211.844	1135799.929
139	800+30.98	-35.08	553228.702	1135808.635
140	800+50.82	-17.40	553201.229	1135787.441
141	800+50.40	-22.36	553200.179	1135792.330
142	801+30.33	-76.40	553157.431	1135853.270
143	801+31.90	-69.50	553153.592	1135847.331
144	801+43.12	-62.49	553140.882	1135844.602
145	801+18.55	-24.53	553150.331	1135800.605
146	801+07.42	-31.45	553163.041	1135803.335
147	801+00.46	-29.85	553168.979	1135799.496
148	800+94.07	-19.63	553171.502	1135787.747
149	800+98.35	-12.00	553164.929	1135781.989
150	801+24.55	-12.00	553140.413	1135790.897
151	801+29.58	-17.00	553137.455	1135797.327
152	801+29.58	-30.00	553141.975	1135809.511
153	801+34.67	-73.71	553152.543	1135852.220
154	801+04.75	-27.20	553164.091	1135798.446
155	800+98.35	-17.00	553166.614	1135786.697
156	801+24.55	-17.00	553142.143	1135795.588
300	201+93.85	-83.42	553320.669	1135558.744
301	201+84.99	-51.44	553289.690	1135548.255
302	201+25.00	-25.36	553274.882	1135487.893
303	201+58.10	-71.43	553313.246	1135529.677
304	201+23.62	-100.35	553348.580	1135501.811
305	201+47.32	-1.97	553247.437	1135504.986
306	201+69.19	-5.73	553246.771	1135527.051
307	201+72.75	-6.00	553246.421	1135530.534
308	202+00.00	-6.00	553243.097	1135557.017
309	202+00.00	2.00	553235.122	1135556.382
310	201+62.31	2.00	553240.498	1135518.853
311	201+47.67	2.00	553243.479	1135504.518
312	201+47.67	0.00	553245.438	1135504.926
313	202+00.00	-2.00	553239.109	1135556.700
314	201+44.76	25.00	553221.555	1135496.981
315	201+62.31	25.00	553217.980	1135514.169
316	201+90.04	25.00	553213.230	1135543.814
317	119+18.60	31.20	553191.255	1135587.286
318	119+38.59	24.20	553174.216	1135599.996
319	119+44.45	23.02	553168.964	1135602.895
320	119+60.32	21.65	553154.209	1135609.038
321	119+48.23	94.49	553143.674	1135535.944
322	119+60.76	121.65	553123.282	1135513.940
400	121+08.36	-28.00	553029.498	1135702.881
401	121+26.68	-28.00	553012.271	1135708.863
402	121+28.23	-31.28	553011.896	1135712.464
403	121+22.47	-46.22	553022.221	1135724.695
404	121+16.87	-47.67	553027.944	1135724.239
405	121+06.65	-31.04	553032.106	1135705.199
406	121+08.36	-30.00	553030.152	1135704.772
407	121+26.68	-30.00	553012.929	1135710.751
408	121+47.54	-47.15	552999.036	1135733.793
409	121+19.45	-46.11	553025.014	1135723.599
161	800+54.70	14.54	553208.965	1135756.204
162	800+48.11	-12.04	553206.184	1135783.385
163	801+06.57	-12.00	553157.229	1135784.758
164	801+10.58	-12.00	553153.468	1135786.120

ITEM 609.34 CURB TYPE 5

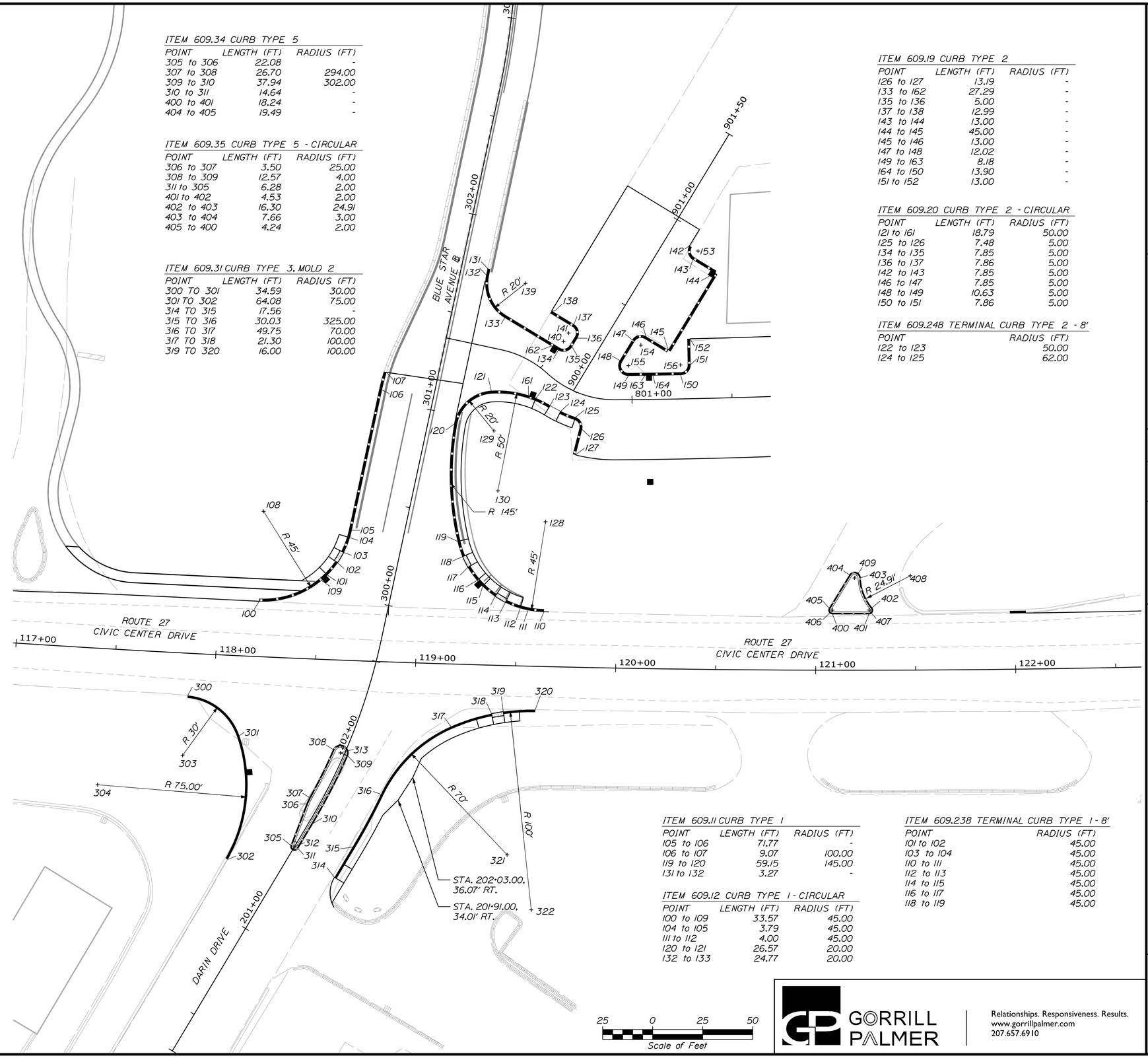
POINT	LENGTH (FT)	RADIUS (FT)
305 to 306	22.08	-
307 to 308	26.70	294.00
309 to 310	37.94	302.00
310 to 311	14.64	-
400 to 401	18.24	-
404 to 405	19.49	-

ITEM 609.35 CURB TYPE 5 - CIRCULAR

POINT	LENGTH (FT)	RADIUS (FT)
306 to 307	3.50	25.00
308 to 309	12.57	4.00
311 to 305	6.28	2.00
401 to 402	4.53	2.00
402 to 403	16.30	24.91
403 to 404	7.66	3.00
405 to 400	4.24	2.00

ITEM 609.31 CURB TYPE 3, MOLD 2

POINT	LENGTH (FT)	RADIUS (FT)
300 TO 301	34.59	30.00
301 TO 302	64.08	75.00
314 TO 315	17.56	-
315 TO 316	30.03	325.00
316 TO 317	49.75	70.00
317 TO 318	21.30	100.00
319 TO 320	16.00	100.00



ITEM 609.19 CURB TYPE 2

POINT	LENGTH (FT)	RADIUS (FT)
126 to 127	13.19	-
133 to 162	27.29	-
135 to 136	5.00	-
137 to 138	12.99	-
143 to 144	13.00	-
144 to 145	45.00	-
145 to 146	13.00	-
147 to 148	12.02	-
149 to 163	8.18	-
164 to 150	13.90	-
151 to 152	13.00	-

ITEM 609.20 CURB TYPE 2 - CIRCULAR

POINT	LENGTH (FT)	RADIUS (FT)
121 to 161	18.79	50.00
125 to 126	7.48	5.00
134 to 135	7.85	5.00
136 to 137	7.86	5.00
142 to 143	7.85	5.00
146 to 147	7.85	5.00
148 to 149	10.63	5.00
150 to 151	7.86	5.00

ITEM 609.248 TERMINAL CURB TYPE 2 - 8'

POINT	RADIUS (FT)
122 to 123	50.00
124 to 125	62.00

ITEM 609.11 CURB TYPE 1

POINT	LENGTH (FT)	RADIUS (FT)
105 to 106	71.77	-
106 to 107	9.07	100.00
119 to 120	59.15	145.00
131 to 132	3.27	-

ITEM 609.12 CURB TYPE 1 - CIRCULAR

POINT	LENGTH (FT)	RADIUS (FT)
100 to 109	33.57	45.00
104 to 105	3.79	45.00
111 to 112	4.00	45.00
120 to 121	26.57	20.00
132 to 133	24.77	20.00

ITEM 609.238 TERMINAL CURB TYPE 1 - 8'

POINT	RADIUS (FT)
101 to 102	45.00
103 to 104	45.00
110 to 111	45.00
112 to 113	45.00
114 to 115	45.00
116 to 117	45.00
118 to 119	45.00

25 0 25 50
Scale of Feet

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

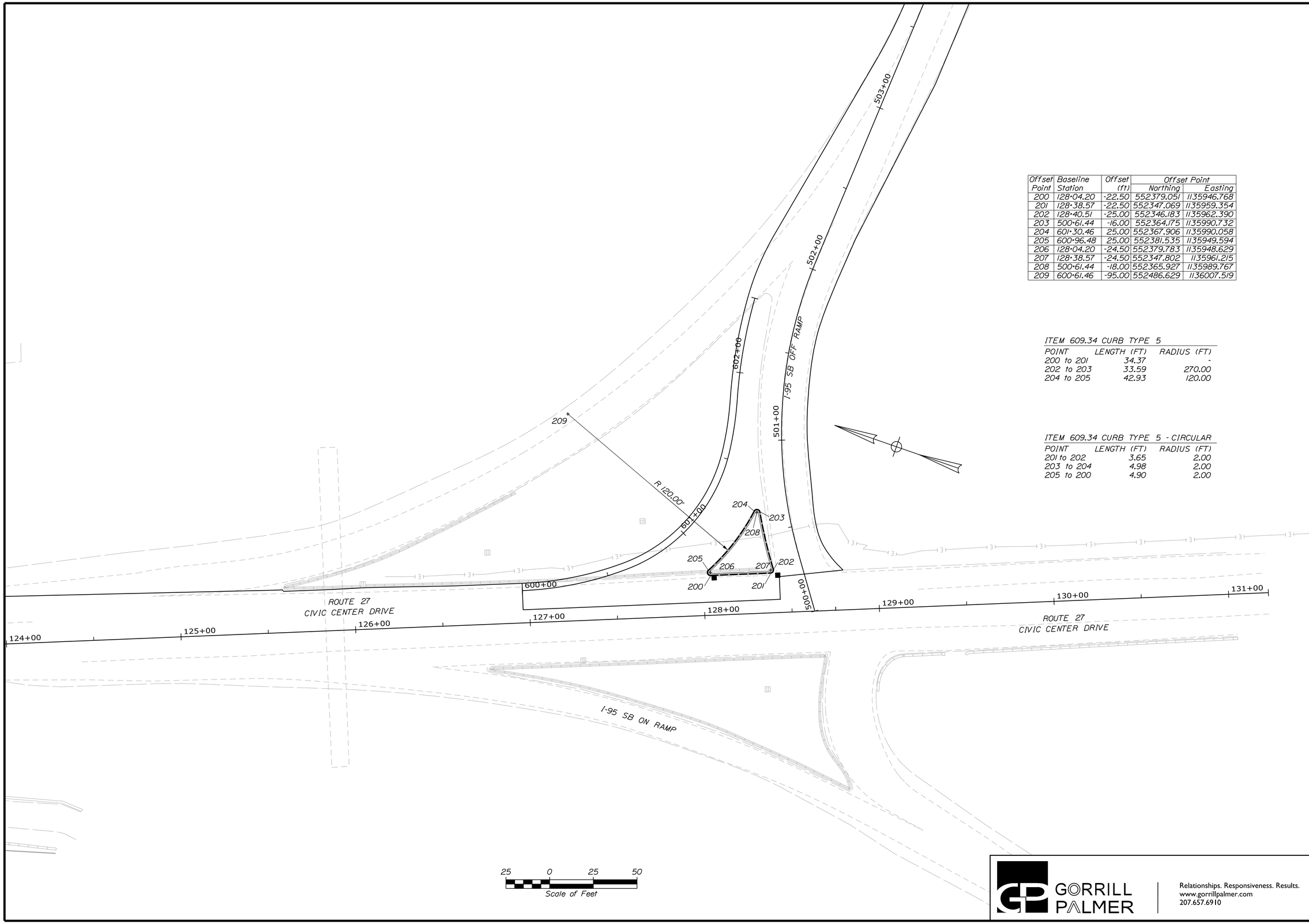
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE
GEOMETRIC LAYOUT AND CURBING PLANS

SHEET NUMBER
18
OF 50

Filename: ...\00\Highway\018_CurbPlan_01.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

Filename: ...\00\Highway\019_CurbPlan_02.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



Offset Point	Baseline Station	Offset (ft)	Offset Point Northing	Offset Point Easting
200	128+04.20	-22.50	552379.051	1135946.768
201	128+38.57	-22.50	552347.069	1135959.354
202	128+40.51	-25.00	552346.183	1135962.390
203	500+61.44	-16.00	552364.175	1135990.732
204	601+30.46	25.00	552367.906	1135990.058
205	600+96.48	25.00	552381.535	1135949.594
206	128+04.20	-24.50	552379.783	1135948.629
207	128+38.57	-24.50	552347.802	1135961.215
208	500+61.44	-18.00	552365.927	1135989.767
209	600+61.46	-95.00	552486.629	1136007.519

ITEM 609.34 CURB TYPE 5

POINT	LENGTH (FT)	RADIUS (FT)
200 to 201	34.37	-
202 to 203	33.59	270.00
204 to 205	42.93	120.00

ITEM 609.34 CURB TYPE 5 - CIRCULAR

POINT	LENGTH (FT)	RADIUS (FT)
201 to 202	3.65	2.00
203 to 204	4.98	2.00
205 to 200	4.90	2.00

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STATE OF MAINE
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STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
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DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

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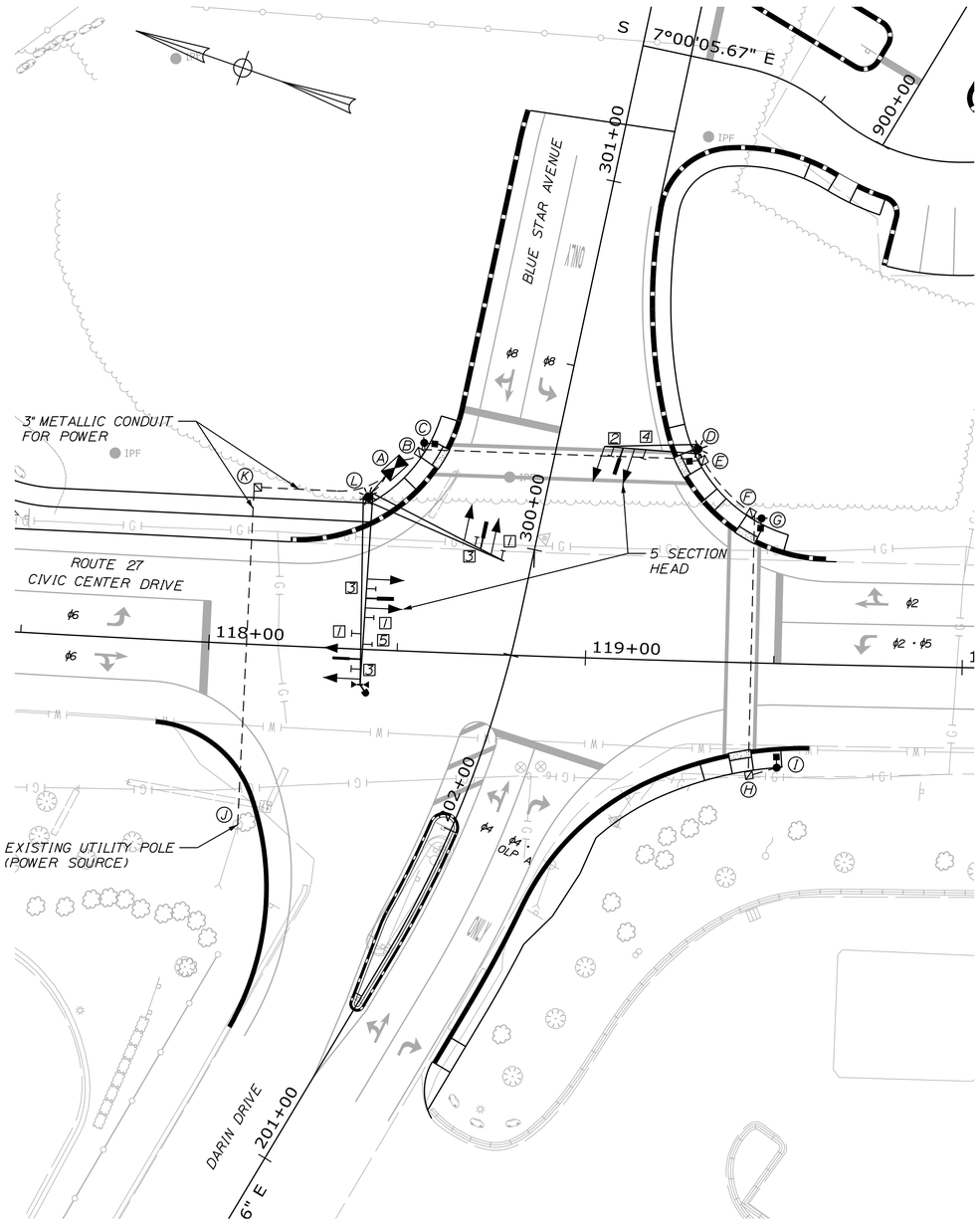
AUGUSTA
ROUTE 27 & DARIN DRIVE

GEOMETRIC LAYOUT AND CURBING PLANS

SHEET NUMBER

19

OF 50

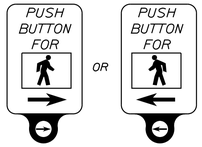


PLAN

20 0 20 40
Scale of Feet

PEDESTRIAN SIGNAL HEADS
16"x18" LED WITH COUNT DOWN TIMER

ACCESSIBLE PEDESTRIAN SIGNALS (APS)
PUSH BUTTON FOR OR PUSH BUTTON FOR
∘ CAMPBELL COMPANY ADVISOR APS A57 OR APPROVED EQUAL



SIGNAL TIMING SCHEDULE - FREE PLAN (SECONDS)

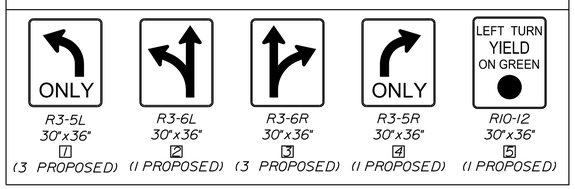
	ϕ1	ϕ2	ϕ3	ϕ4	ϕ5	ϕ6	ϕ7	ϕ8
MINIMUM INITIAL		10		5	5	10		5
PASSAGE TIME		3		3	3	3		3
MAXIMUM GREEN		34		12	6	34		12
YELLOW		4		4	4	4		4
ALL RED		2		2	2	2		2
WALK		4		4				
PEDESTRIAN CLEARANCE		18		16				
FLASH (Y=YELLOW, R=RED)		Y		R		Y		R
PHASE RECALL		SOFT		OFF	OFF	SOFT		OFF
MEMORY								
DUAL ENTRY		ON		OFF		ON		OFF
DETECTOR DELAY *				5				

* EXCLUSIVE RIGHT TURN LANE ONLY

NOTE:

1. THIS TIMING PLAN IS FOR INITIAL START UP ONLY AND SHALL BE FIELD ADJUSTED UNDER CITY OR MAINEDOT DIRECTION

SIGN LEGEND*



R3-5L	R3-6L	R3-6R	R3-5R	R10-12
30"x36"	30"x36"	30"x36"	30"x36"	30"x36"
1	2	3	4	5
(3 PROPOSED)	(1 PROPOSED)	(3 PROPOSED)	(1 PROPOSED)	(1 PROPOSED)

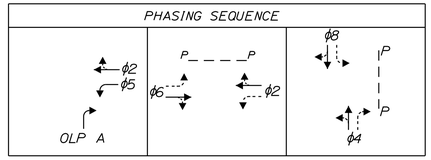
* EACH LANE SHALL HAVE A CORRESPONDING LANE USE SIGN LOCATED OVERHEAD ON THE MAST ARM AND AS CLOSE TO THE CENTER OF THE LANE AS PRACTICAL. ALL OVERHEAD SIGNS SHALL MEET OR EXCEED MUTCD STANDARDS.

LEGEND

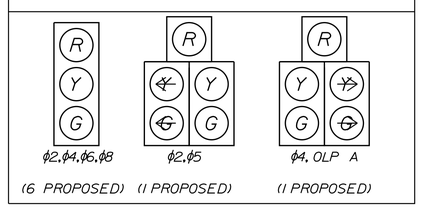
EXISTING		PROPOSED
	SIGNAL NOTE	X
	SIGNAL HEAD	
	VIDEO DETECTOR*	
	SIGNAL CONDUIT (3" PVC, SCH 80, UNLESS OTHERWISE NOTED)	
	CONTROLLER CABINET	
	PEDESTRIAN SIGNAL HEAD	
	SIGNAL POLE	
	MAST ARM WITH SIGNAL STANDARD	
	PRE-EMPTION RECEIVER	
	PRE-EMPTION CONFIRMATION STROBE	
	DUAL PURPOSE POLE WITH MAST ARM FOUNDATION	
	JUNCTION BOX	
	BLANK OUT SIGN	
	PEDESTAL POLE	
	DUAL PURPOSE OVERHEAD ILLUMINATIONON PEDESTRIAN POLE	

* VIDEO DETECTION SHALL BE TRAFI RADAR OR APPROVED EQUAL FOR PRESENCE ON ALL APPROACHES AND DILEMMA ZONE DETECTION ON ROUTE 27.

PHASING SEQUENCE



PROPOSED SIGNAL HEADS



* SIGNAL HEADS SHALL BE ALIGNED WITH LANES PER MUTCD

EQUIPMENT SCHEDULE

DESIGNATION	ITEM	DESCRIPTION	LOCATION
A*	NEW CONTROLLER AND CABINET	GROUND MOUNTED WITH EXTENSION, CONCRETE FOUNDATION, NEW CONTROLLER	STA. 300+13.40, 40.83' LT
B,E,F,H,K	JUNCTION BOX**	PRECAST CONCRETE	**
C	PEDESTAL POLE	PEDESTRIAN HEAD, PUSH BUTTON, SIGN AND FOUNDATION	STA. 300+21.56, 34.57' LT
D	DUAL PURPOSE POLE WITH 25' MAST ARM AND FOUNDATION	SIGNAL HEADS, VIDEO DETECTION, LANE USE SIGNS, PEDESTRIAN HEAD WITH PUSH BUTTON AND SIGN	STA. 300+35.27, 36.98' RT
G	PEDESTAL POLE	PEDESTRIAN HEAD, PUSH BUTTON, SIGN AND FOUNDATION	STA. 119+45.74, 38.38' LT
I	PEDESTAL POLE	PEDESTRIAN HEAD, PUSH BUTTON, SIGN AND FOUNDATION	STA. 119+51.48, 27.62' RT
J	EXISTING UTILITY POLE	POWER SOURCE	STA. 201+74.22, 51.45' LT
L	DUAL PURPOSE POLE WITH 40' MAST ARM AND 50' MAST ARM AND FOUNDATION	SIGNAL HEADS, VIDEO DETECTION (WITH DILEMMA ZONE DETECTION), LANE USE SIGNS, EMERGENCY PRE EMPTION WITH CONFIRMATION STROBE	STA. 300+04.57, 46.16' LT

* CONTROLLER/CABINET SHALL BE MODIFIED AS NEEDED TO RECIEVE FIBER INTERCONNECTION IN THE FUTURE

** JUNCTION BOX LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED TO ACCOMMODATE FIELD CONDITIONS

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2056(800)
WIN 20568.00
HIGHWAY PLANS

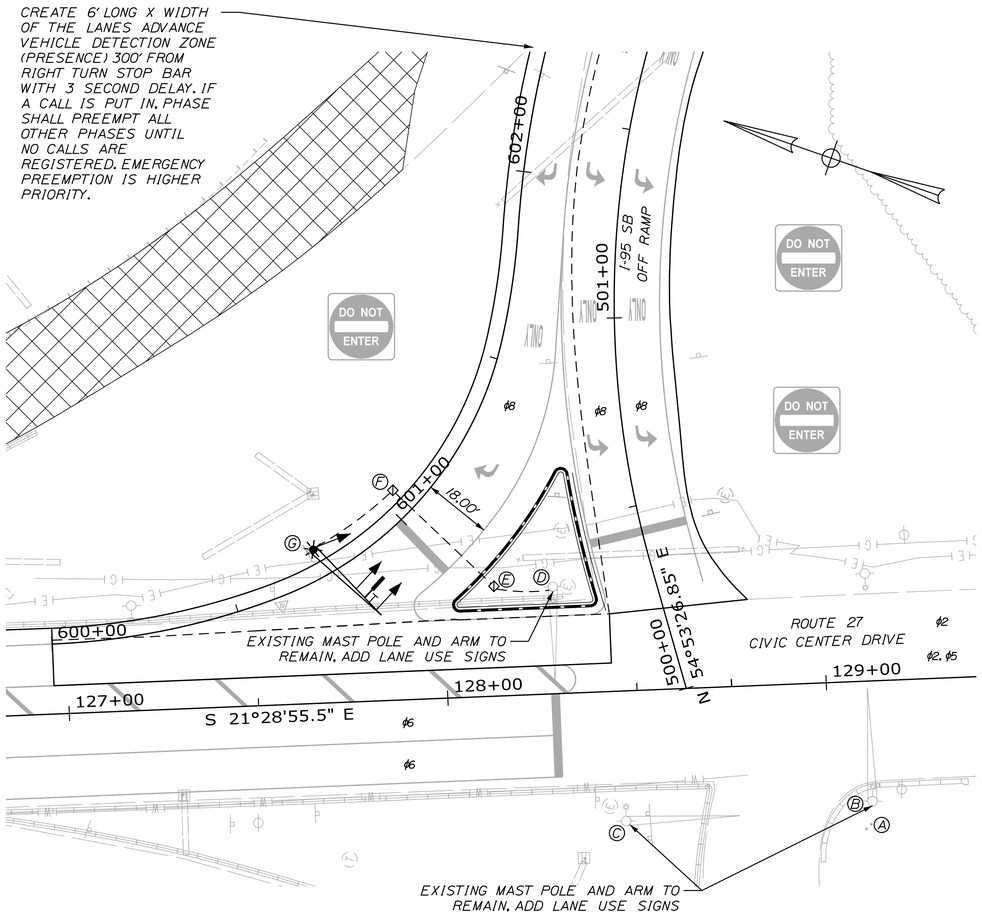
		BY	DATE
PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	R. DUNTON	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER		04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE
SIGNAL PLAN 1

SHEET NUMBER
20
OF 50

Filename: ...\00\Highway\020_Signal01.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



PLAN

20 0 20 40

Scale of Feet

PHASING SEQUENCE		
ϕ2, ϕ5	ϕ6, ϕ2	ϕ8

LEGEND	
EXISTING	PROPOSED
	SIGNAL NOTE
	SIGNAL HEAD
	VIDEO DETECTOR*
	SIGNAL CONDUIT (3" PVC, SCH 80, UNLESS OTHERWISE NOTED)
	CONTROLLER CABINET
	PEDESTRIAN SIGNAL HEAD
	SIGNAL POLE
	MAST ARM WITH SIGNAL STANDARD
	PRE-EMPTION RECIEVER
	PRE-EMPTION CONFIRMATION STROBE
	DUAL PURPOSE POLE WITH MAST ARM FOUNDATION
	JUCTION BOX
	BLANK OUT SIGN
	PEDESTAL POLE
	DUAL PURPOSE OVERHEAD ILLUMINATIONON PEDESTRIAN POLE

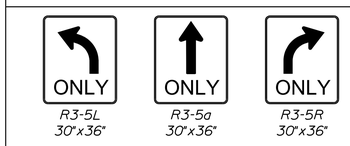
* VIDEO DETECTION SHALL BE TRAFIRADAR OR APPROVED EQUAL FOR PRESENCE AND ADVANCE RAMP DETECTION

SIGNAL TIMING SCHEDULE - FREE PLAN (SECONDS)

	ϕ1	ϕ2	ϕ3	ϕ4	ϕ5	ϕ6	ϕ7	ϕ8
MINIMUM INITIAL		10			5	10		5
PASSAGE TIME		3			3	3		3
MAXIMUM GREEN		25			15	25		12
YELLOW		4			4	4		4
ALL RED		2			2	2		2
WALK								
PEDESTRIAN CLEARANCE								
FLASH (Y=YELLOW, R=RED)		Y			R	Y		R
PHASE RECALL		SOFT			OFF	SOFT		OFF
MEMORY								
DUAL ENTRY		ON			OFF	ON		OFF
DETECTOR DELAY *								5

* RIGHT TURN LANE ONLY

SIGN LEGEND*



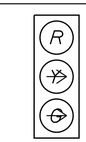
R3-5L 30"x36" (3 PROPOSED)

R3-5a 30"x36" (3 PROPOSED)

R3-5R 30"x36" (1 PROPOSED)

* EACH LANE SHALL HAVE A CORRESPONDING LANE USE SIGN LOCATED OVERHEAD ON THE MAST ARM AND AS CLOSE TO THE CENTER OF THE LANE AS PRACTICAL. ALL OVERHEAD SIGNS SHALL MEET OR EXCEED MUTCD STANDARDS.

PROPOSED SIGNAL HEADS



ϕ8 RIGHT TURNS

(3 PROPOSED)

* SIGNAL HEADS SHALL BE ALIGNED WITH LANES PER MUTCD

EQUIPMENT SCHEDULE

DESIGNATION	ITEM	DESCRIPTION	LOCATION
A*	EXISTING CONTROLLER AND CABINET	TO REMAIN	NOT SHOWN
B	EXISTING MAST ARM/POLE	ADD OVERHEAD LANE USE SIGNS	STA. 129+10.94, 31.71' RT.
C	EXISTING MAST ARM/POLE	ADD OVERHEAD LANE USE SIGNS	STA. 128+45.73, 34.33' RT.
D	EXISTING MAST ARM/POLE	ADD OVERHEAD LANE USE SIGNS	STA. 601+11.42, 41.55' RT.
E,F	JUNCTION BOX**	PRECAST CONCRETE	**
G	DUAL PURPOSE POLE WITH 25' MAST ARM AND FOUNDATION	SIGNAL HEADS, VIDEO DETECTION (WITH ADVANCED RAMP DETECTION), LANE USE SIGNS, EMERGENCY PRE-EMPTION	STA. 600+75.55, 7.66' LT.

* EXISTING CONTROLLER TO BE MODIFIED AS NEEDED TO ACCOMMODATE PROPOSED PHASING AND TIMING. CONTROLLER/CABINET SHALL ALSO BE MODIFIED TO RECEIVE FIBER INTERCONNECTION IN THE FUTURE

** JUNCTION BOX LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED TO ACCOMMODATE FIELD CONDITIONS

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	B. KEEZER	
DESIGN-DETAILED	R. DUNTON	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	04\16
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

SIGNAL PLAN 2

SHEET NUMBER

21

OF 50

Filename: ...\00\Highway\021_Signal02.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

GENERAL SIGNAL NOTES

1. ALL MATERIALS AND WORK SHALL AT A MINIMUM CONFORM TO MAINE DOT STANDARD SPECIFICATIONS AND BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", U.S.D.O.T., F.H.W.A., LATEST EDITION.

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

3. TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THAT WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC.

4. THE RESIDENT, CITY AND MAINE DOT SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIALS IN PROGRESS OR COMPLETED AND SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS.

5. THE LOCATIONS OF MAST ARMS AND POLES INCLUDING THE MOUNTED TRAFFIC DEVICES AND SIGNS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT, MAINE DOT OR CITY REPRESENTATIVE.

6. THE PROPOSED TRAFFIC SIGNAL TIMING AND PHASING PLAN SHALL BE INPUT BY THE CONTRACTOR UNDER OBSERVATIONS BY THE RESIDENT OR MAINE DOT REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE RESIDENT.

7. CONTRACTOR IS RESPONSIBLE FOR FIELD ADJUSTING TIMING FOR EACH TIMING PLAN UNDER THE DIRECTION OF THE RESIDENT AND MAINE DOT REPRESENTATIVE.

8. TWO COPIES OF AS-BUILT PLANS, SIGNAL TIMING, AND CONTROLLER MANUALS SHALL BE LEFT IN THE CONTROLLER CABINET. ONE ELECTRONIC COPY OF EACH SHALL BE PROVIDED TO THE CITY ENGINEER/PUBLIC WORKS DIRECTOR.

9. CONTRACTOR SHALL PROVIDE AND INSTALL ALL JUNCTION BOXES PER MAINE DOT STANDARDS AT A MINIMUM.

10. THE CONTRACTOR SHALL PREPARE A MATERIAL SCHEDULE BASED UPON THEIR PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.

11. UTILITIES THAT HAVE FACILITIES IN THE GENERAL PROJECT ARE LISTED IN SPECIAL PROVISION 104.

12. 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 AND APPROPRIATE AUTHORITIES PRIOR TO ANY SUBSURFACE ACTIVITIES.

13. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE UTILITY COMPANIES WHEN MODIFIYING THE EXISTING SERVICE CONNECTIONS AND WHEN INSTALLING EQUIPMENT ON THEIR POLES OR NEAR THEIR WIRES.

14. 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.

15. THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION AND/OR INSTALLATION OF POWER METERS IF REQUIRED AND ASSURING THE POWER METER LOCATION AND INSTALLATION CONFORMS TO THE LOCAL UTILITY REQUIREMENTS. THIS WORK WILL BE INCIDENTAL TO ITEM 643.80.

16. ALL CONDUIT CROSSING AREAS OF OVERLAY OR EXISTING PAVEMENT SHALL BE INSTALLED USING TRENCHLESS TECHNOLOGIES.

17. ALL NEW SIGNAL SECTIONS SHALL HAVE LED LENSES 12 INCHES IN DIAMETER, AND SHALL HAVE 5 INCH LOUVERED BACK PLATES WITH YELLOW RETROREFLECTIVE STRIP AROUND BORDER OF BACK PLATES.

18. ALL SPLICES WILL BE MADE IN THE CABINETS OR POLES MEETING MAINE DOT SPECIFICATIONS.

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

20. THE CONTRACTOR SHALL PROVIDE MAST ARM DESIGN IN ACCORDANCE WITH SECTION 643.023.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL STRUCTURAL DESIGN OF THE SIGNAL SUPPORT STRUCTURES AND THE CONNECTION OF THE SUPPORT STRUCTURES TO THEIR FOUNDATIONS. ALL DESIGNS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DESIGN COMPUTATIONS, INCLUDING DESIGN LOADS (OVERTURNING MOMENT, TORSION, SHEAR FORCE, AND AXIAL LOAD) AT THE TOP OF THE FOUNDATIONS, AND SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE DEPARTMENT. NO MATERIALS SHALL BE ORDERED OR FABRICATED UNTIL THE DESIGN HAS BEEN APPROVED.

22. FOUNDATIONS SHALL CONSIST OF CAST-IN-PLACE REINFORCED CONCRETE DRILLED SHAFTS; ONE NEW DRILLED SHAFT PER MAST ARM OR DUAL PURPOSE POLE AS SET FORTH IN SPECIAL PROVISION 643. FOUNDATION SIZES SHALL BE SELECTED BY THE CONTRACTOR BASED UPON ACTUAL COMPUTED BENDING MOMENTS AND TORSION IN ACCORDANCE WITH SPECIAL PROVISION 643. ACTUAL DESIGN LOADS AT THE TOP OF THE FOUNDATION THAT ARE PROVIDED BY THE CONTRACTOR AS PART OF THEIR STRUCTURAL SUBMITTAL WILL BE USED BY THE DEPARTMENT TO CHECK THE SPECIFIED SIZE OF THE DRILLED SHAFTS. DRILLED SHAFTS SHALL NOT BE PERMANENTLY CASED, EXCEPT FOR THE TOP 3 FEET; CONCRETE SHALL BE CAST DIRECTLY AGAINST THE SURROUNDING SOIL. PRECAST FOUNDATIONS WILL NOT BE ACCEPTED.

23. ANY DAMAGE TO SLOPES OR PAVEMENT RESULTING FROM INSTALLATION OF MAST ARM OR DUAL PURPOSE POLES AND FOUNDATIONS SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE RESIDENT. COSTS OF REPAIRS SHALL BE INCIDENTAL TO PAYMENT UNDER SECTION 643.

24. PAYMENT FOR MAST ARM OR DUAL PURPOSE POLES AND FOUNDATIONS FOR SIGNALS WILL BE IN ACCORDANCE WITH SECTION 643, AND WILL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT AND MATERIALS FOR THE ACCEPTED COMPLETE SIGNAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, SIGNALS, SUPPORT STRUCTURES AND FOUNDATIONS, EXCAVATION, EXCAVATION STABILIZATION, BACKFILL, REPLACEMENT OF SUBBASE GRAVEL, REPLACEMENT OR REPAIR OF HIGHWAY AND SIDEWALK PAVEMENT, SLOPE REGRADING, AND PLACEMENT OF LOAM, SEED AND MULCH ON DISTURBED SLOPES. PAYMENT FOR CONSTRUCTION TRAFFIC CONTROL WILL BE MADE UNDER APPLICABLE PAY ITEMS OF SECTION 652.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY STREET/SIDEWALK OCCUPANCY OR OPENING PERMITS.

26. PROPOSED SIGNS ON SIGNAL MAST ARMS AND POLES SHALL BE INCIDENTAL TO ITEM 643.80.

27. ALL SIGNAL HEADS SHALL BE MOUNTED TO MAST ARMS WITH ASTROBRACKETS.

28. ALL CONFLICTING SIGNS AND PAVEMENT MARKINGS SHALL BE PERMANENTLY REMOVED.

29. SEE SPECIAL PROVISION, SECTION 643, TRAFFIC SIGNALS FOR ADDITIONAL SPECIFICATIONS.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

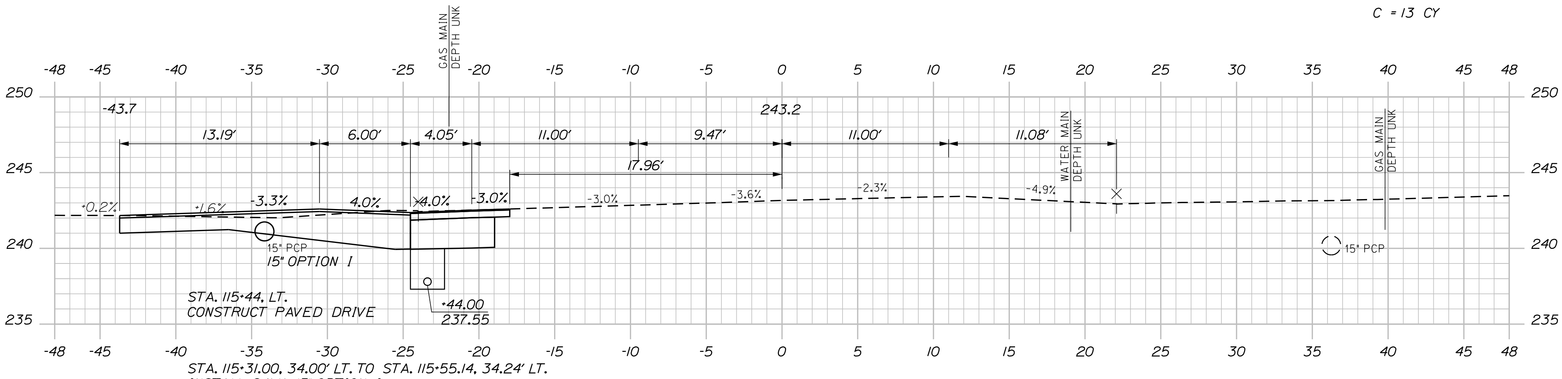
DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

SIGNAL NOTES

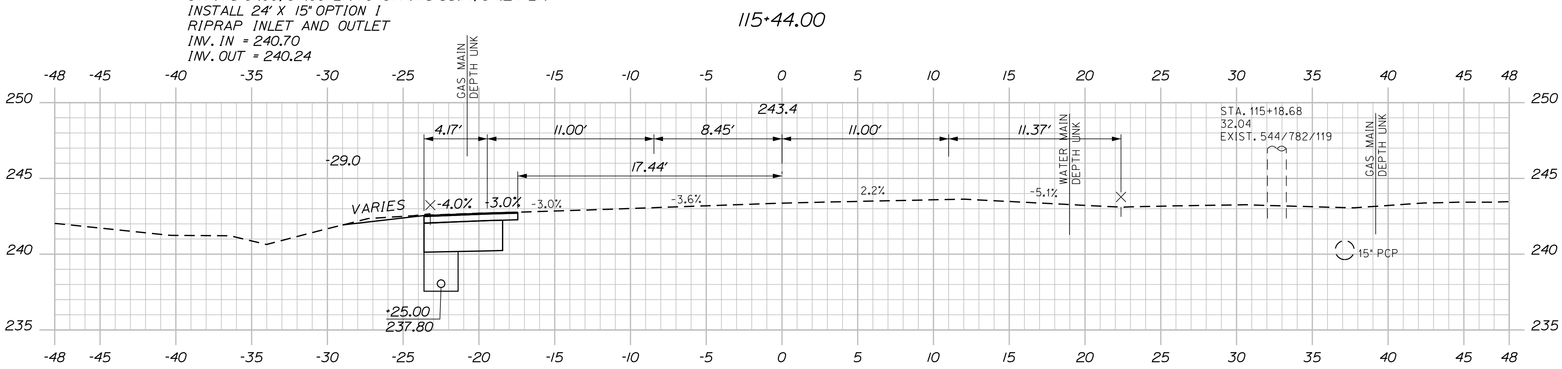
SHEET NUMBER
22
OF 50

Filename: ...\00\Highway\022_SignalNotes.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



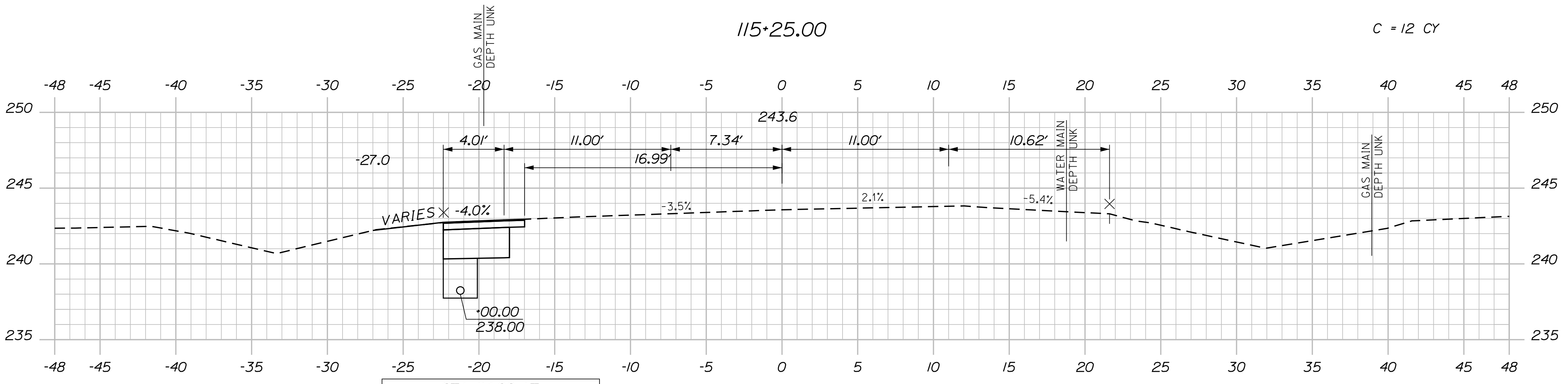
STA. 115+31.00, 34.00' LT. TO STA. 115+55.14, 34.24' LT.
INSTALL 24' X 15" OPTION I
RIPRAP INLET AND OUTLET
INV. IN = 240.70
INV. OUT = 240.24

115+44.00



115+25.00

C = 12 CY

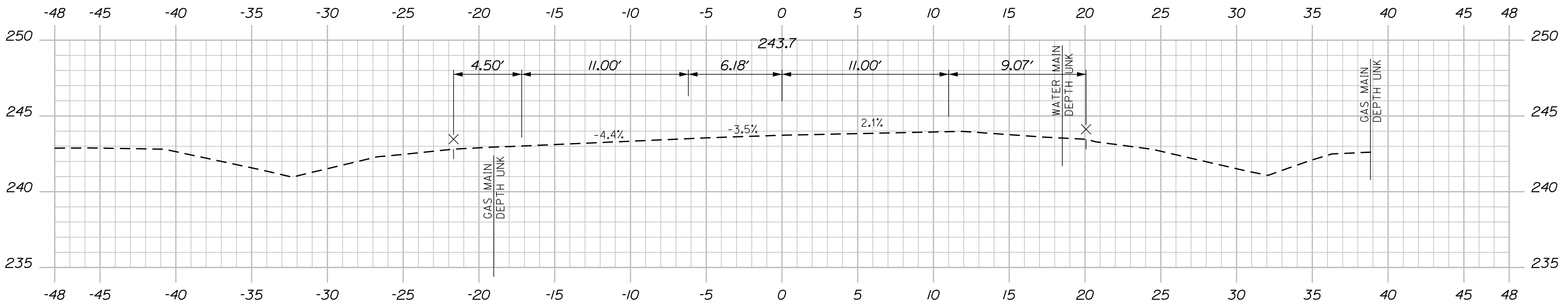


STA. 114+92, LT. TO STA. 300+06.13, LT.
INSTALL 362' X 6" UD TYPE "B"
INV. IN = 238.25

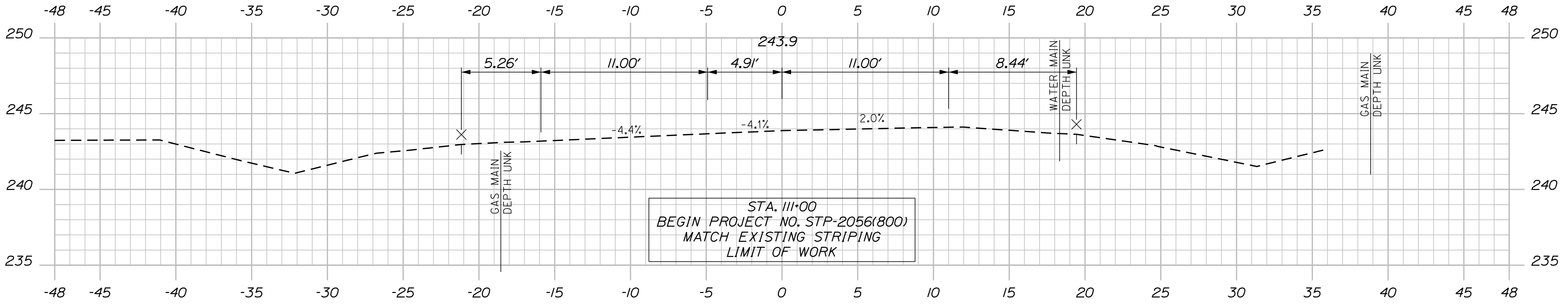
STA. 114+92, LT.
BEGIN WIDENING

115+00.00

C = 3 CY



114+75.00



114+50.00

Sta. 114+50.00 to Sta. 115+44.00

SHEET NUMBER 23 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

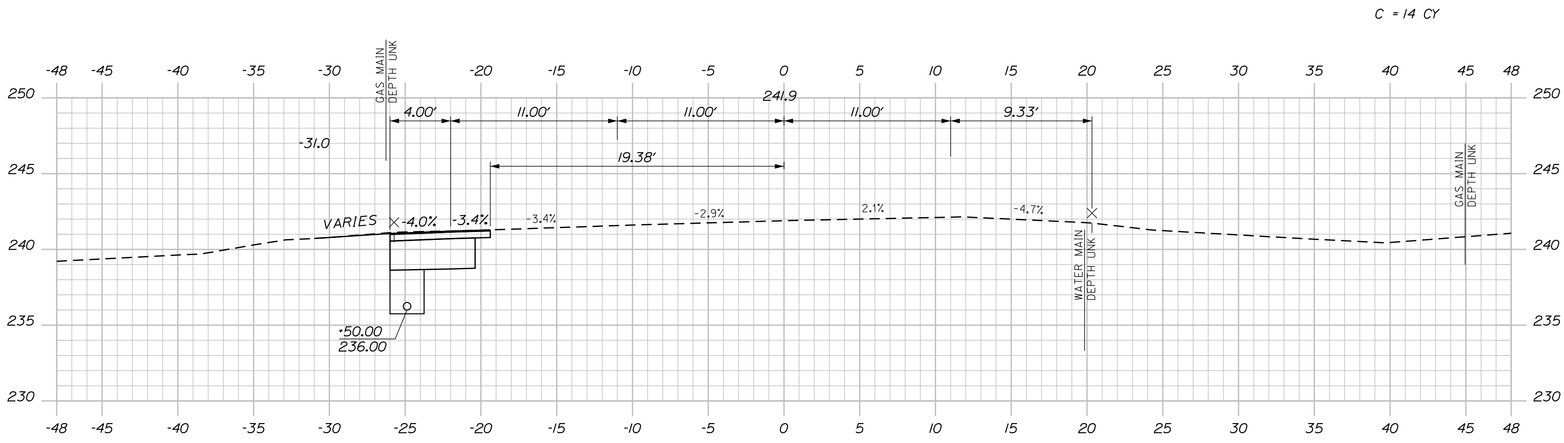
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

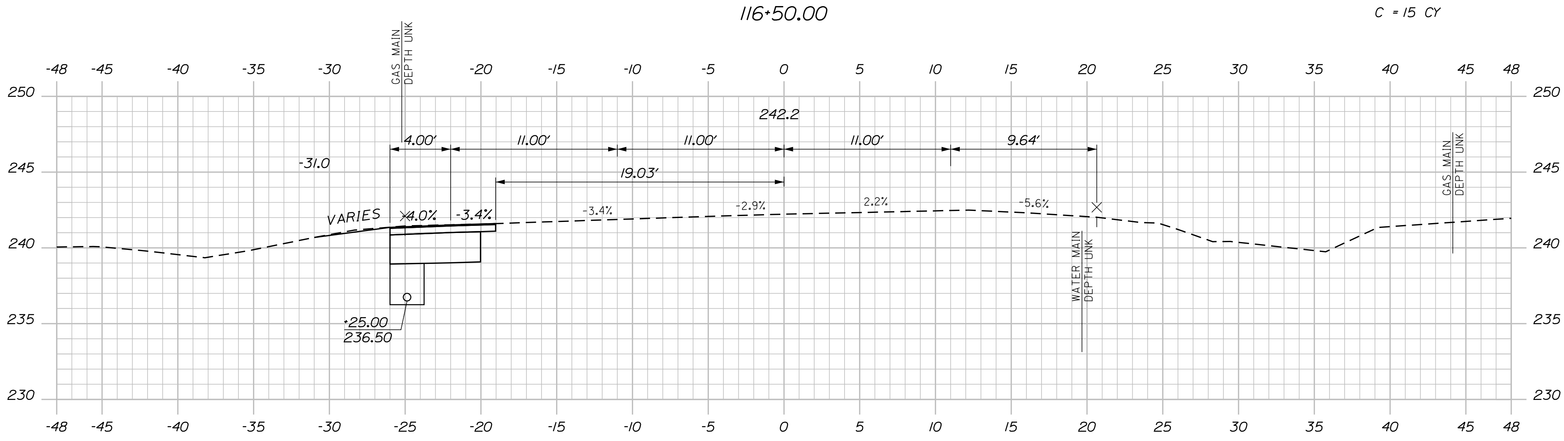
STP-2056(800)

WIN 20568.00

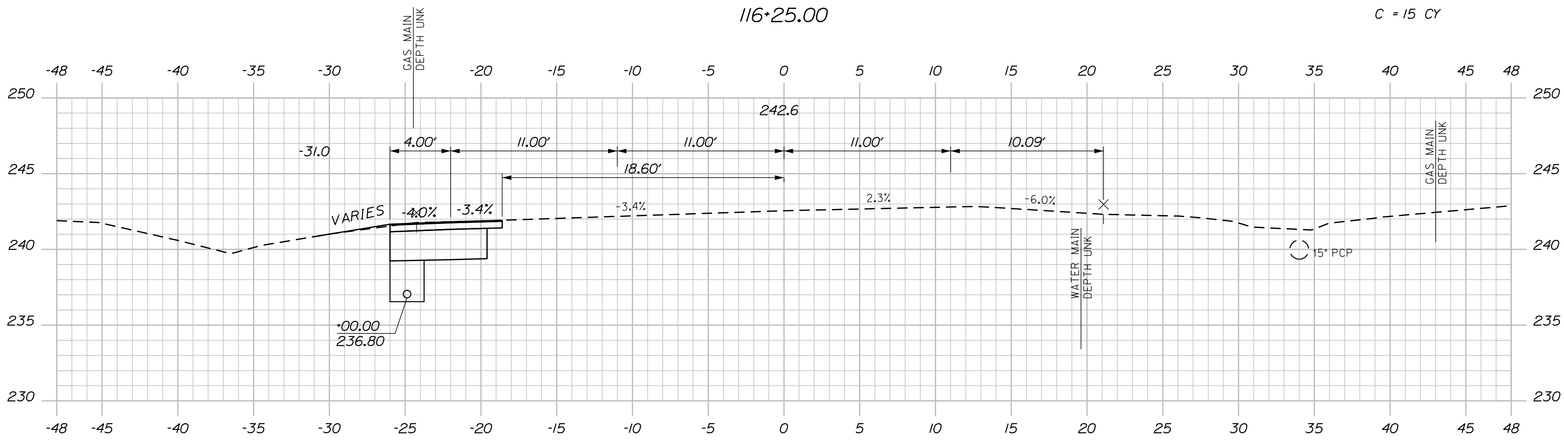
HIGHWAY PLANS



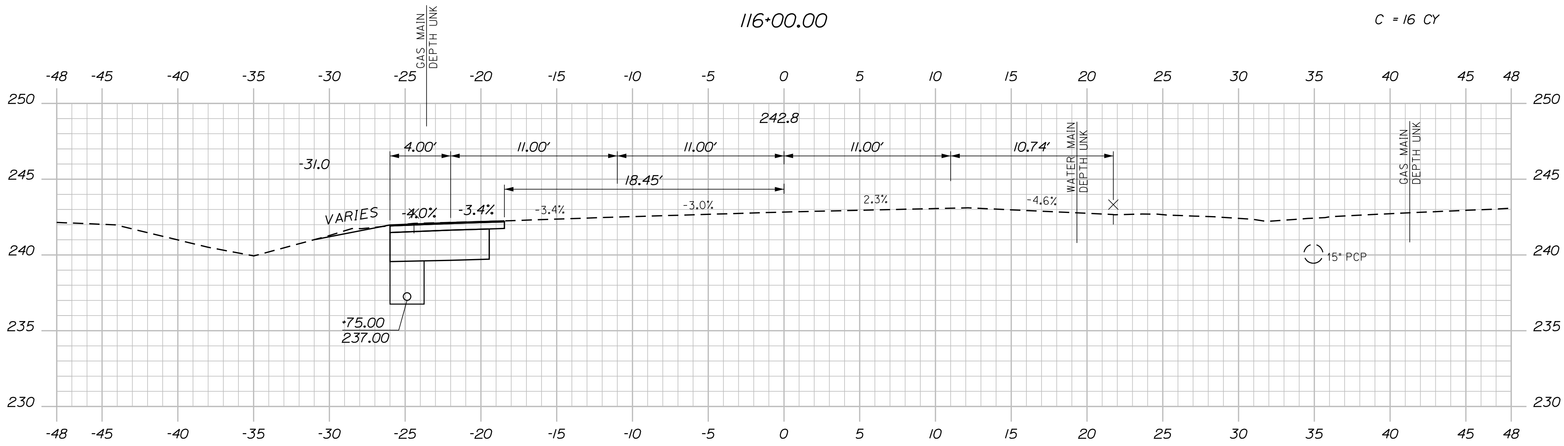
116+50.00



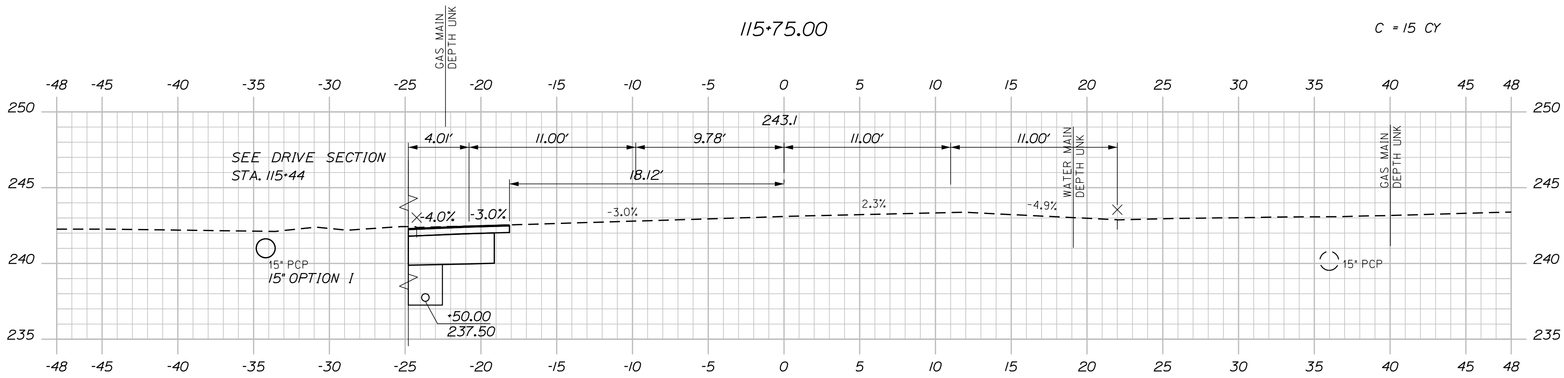
116+25.00



116+00.00



115+75.00



115+50.00

Sta. 115+50.00 to Sta. 116+50.00

SHEET NUMBER 24 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

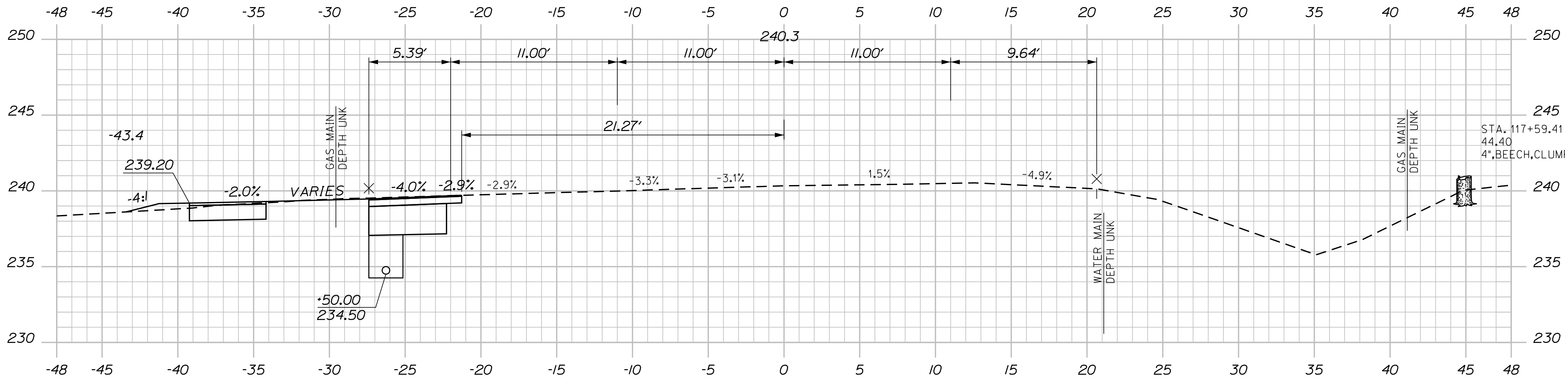
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

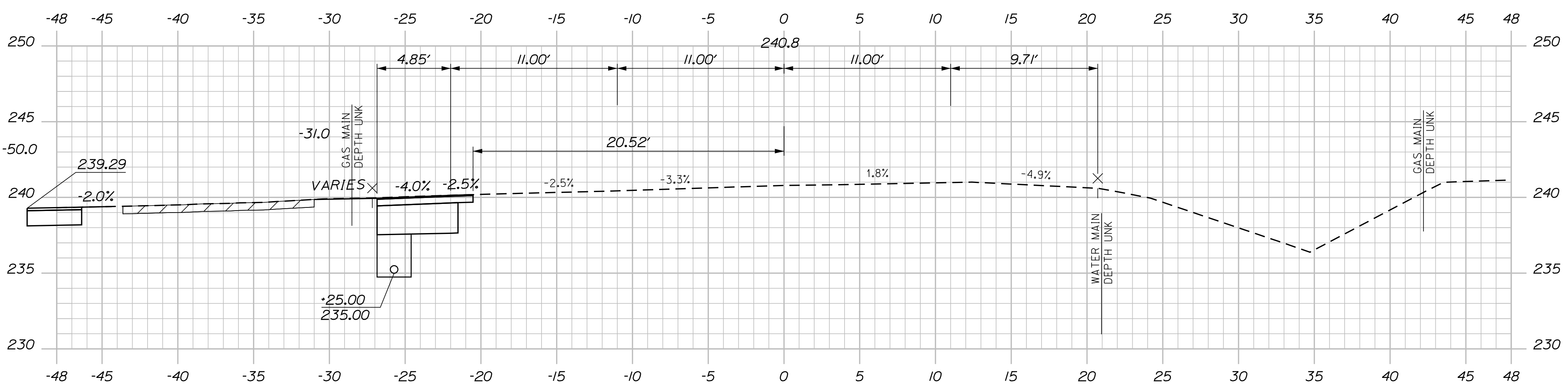
HIGHWAY PLANS

C = 17 CY
F = 1 CY



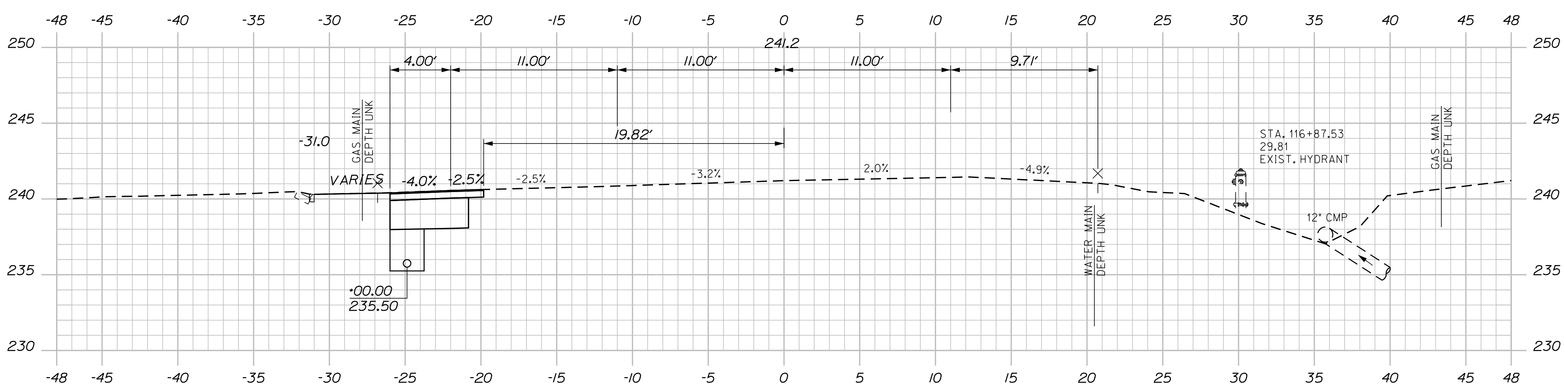
117+50.00

C = 19 CY



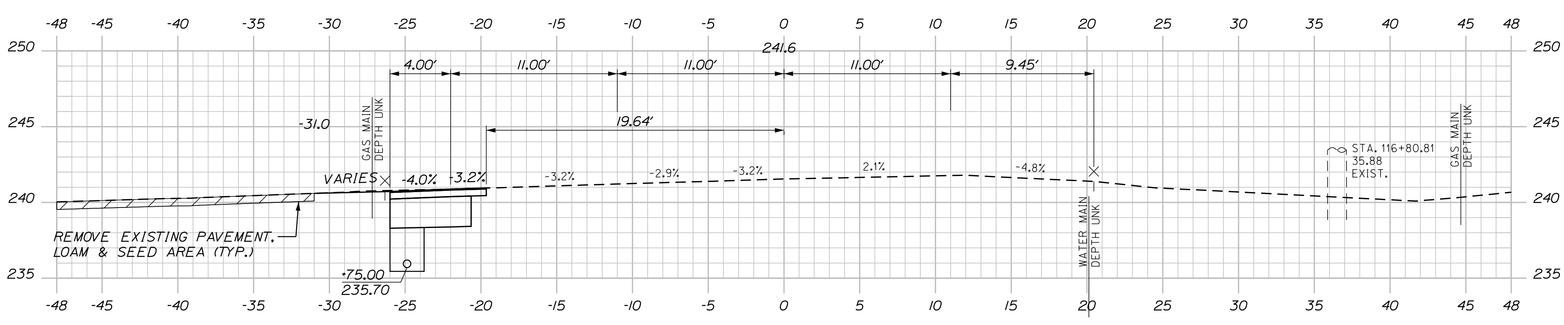
117+25.00

C = 16 CY



117+00.00

C = 14 CY



116+75.00

Sta. 116+75.00 to Sta. 117+50.00

SHEET NUMBER 25 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

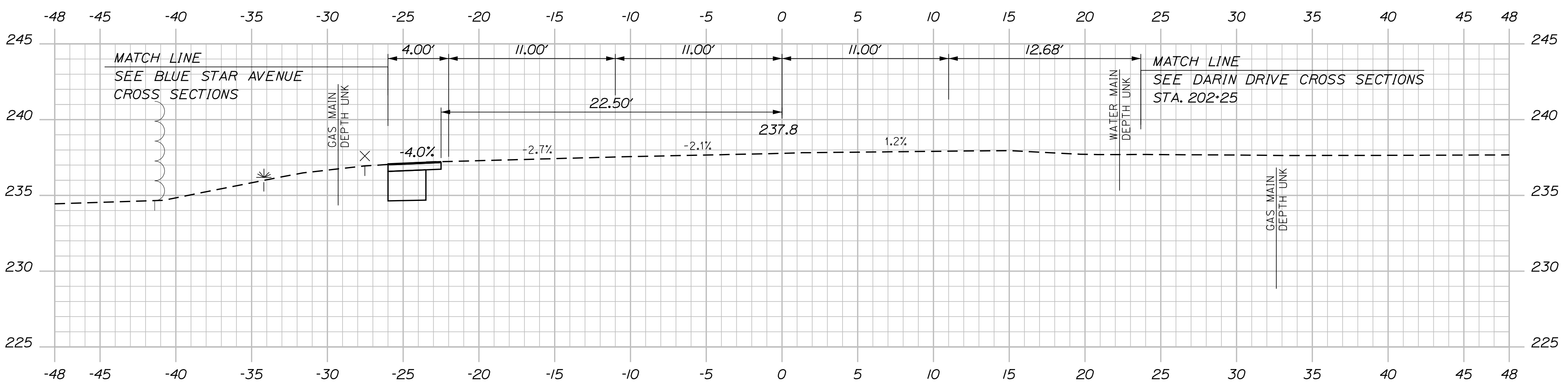
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

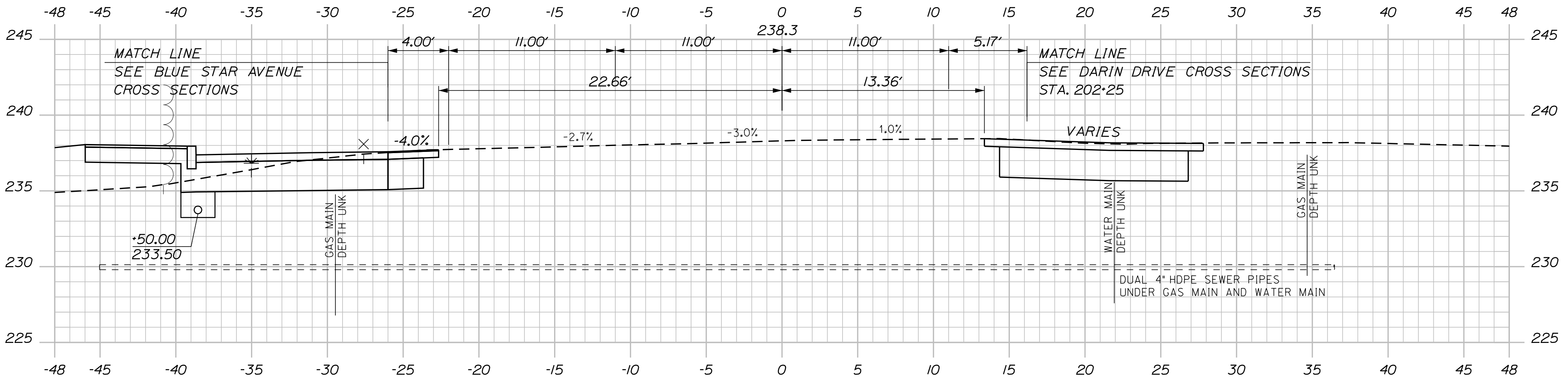
HIGHWAY PLANS

C = 6 CY



118+75.00

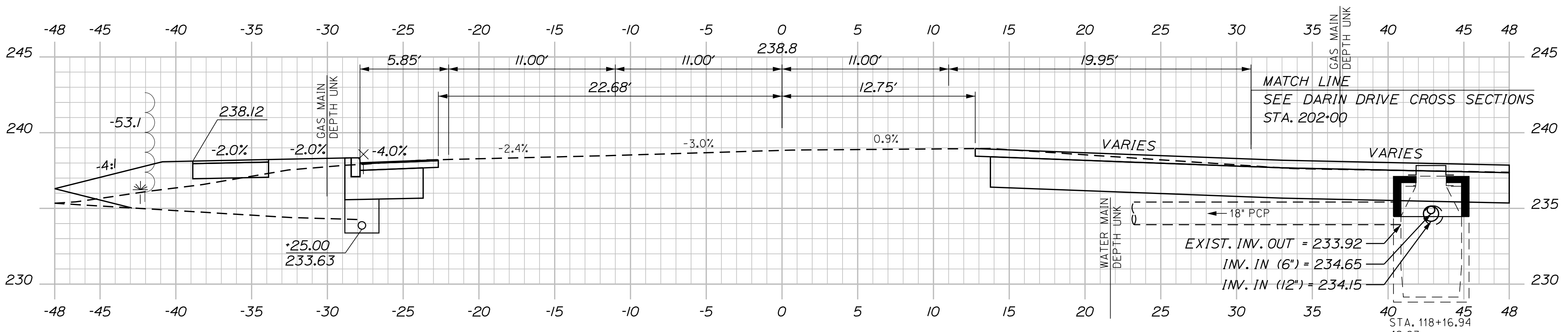
C = 8 CY



118+50.00

C = 29 CY
F = 7 CY

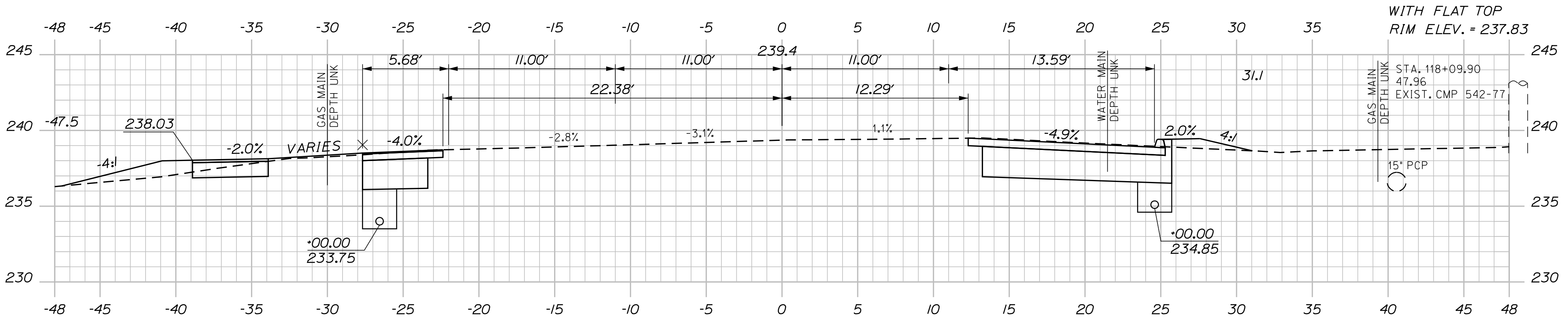
STA. 118+16.94, RT. TO STA. 201+68.84, LT.
INSTALL 12.0' X 12" UD TYPE "C"
SEE DARIN DRIVE CROSS SECTIONS



118+25.00

C = 46 CY
F = 8 CY

STA. 118+16.94
42.83
EXIST. CB
RIM ELEV. = 237.13
ALTER CB TO MH
WITH FLAT TOP
RIM ELEV. = 237.83

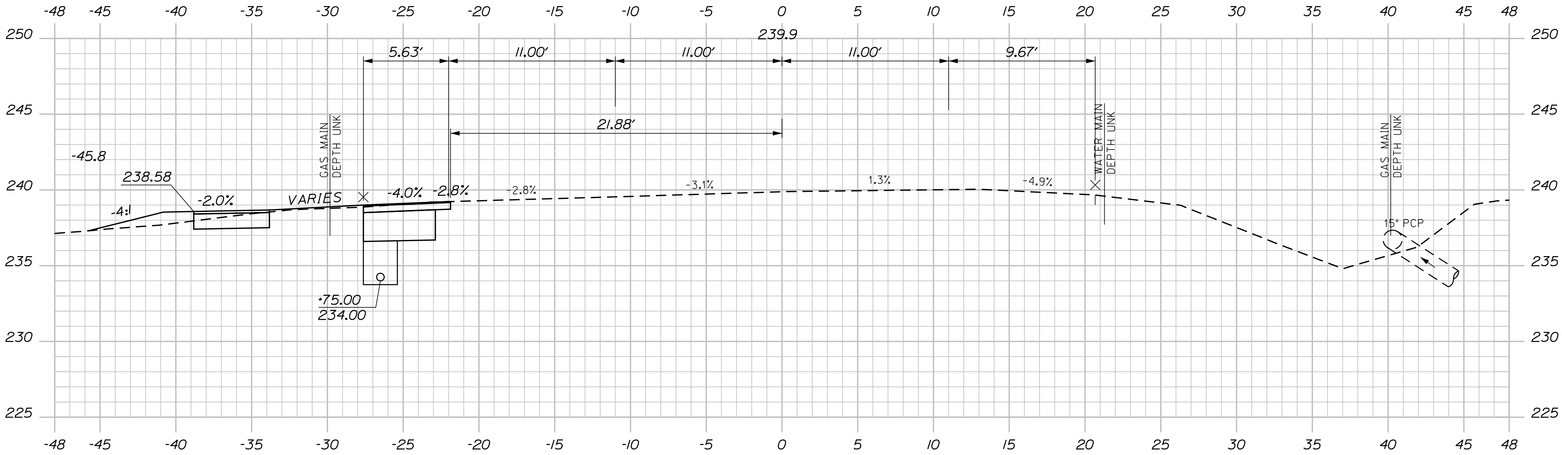


118+00.00

STA. 117+87. RT.
BEGIN WIDENING

STA. 117+87.00, RT. TO STA. 118+16.94, RT.
INSTALL 38.0' X 6" UD TYPE "B"
INV. IN = 235.00

C = 30 CY
F = 2 CY



117+75.00

Sta. 117+75.00 to Sta. 118+75.00

SHEET NUMBER 26 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

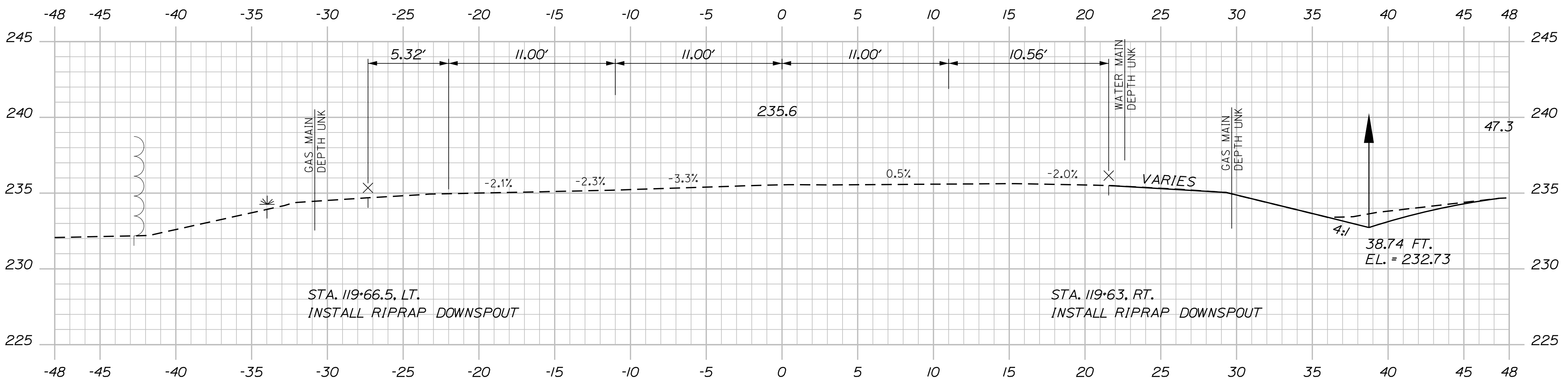
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN
20568.00

HIGHWAY PLANS

C = 4 CY

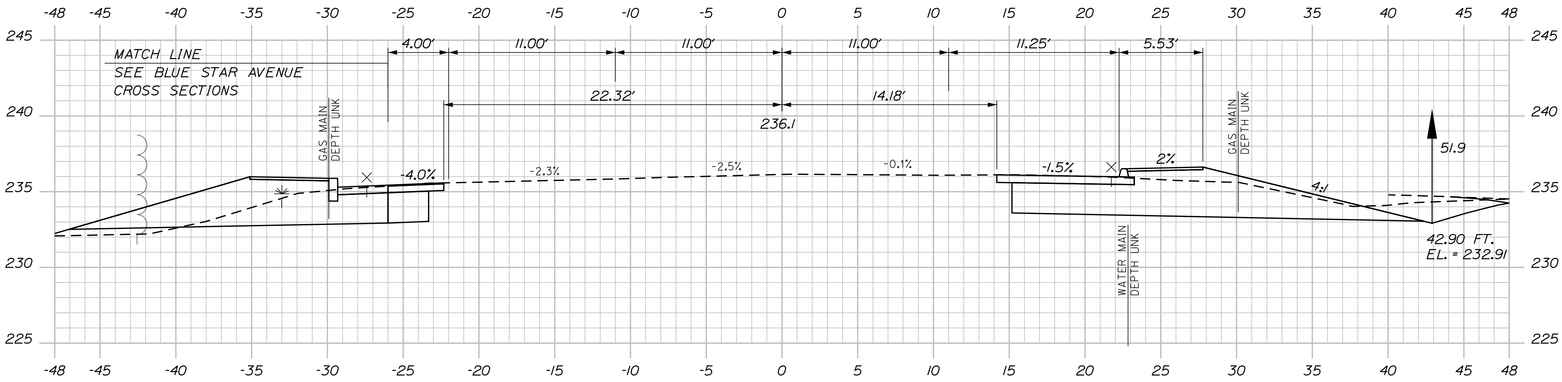


STA. 119+66, LT.
END WIDENING

119+75.00

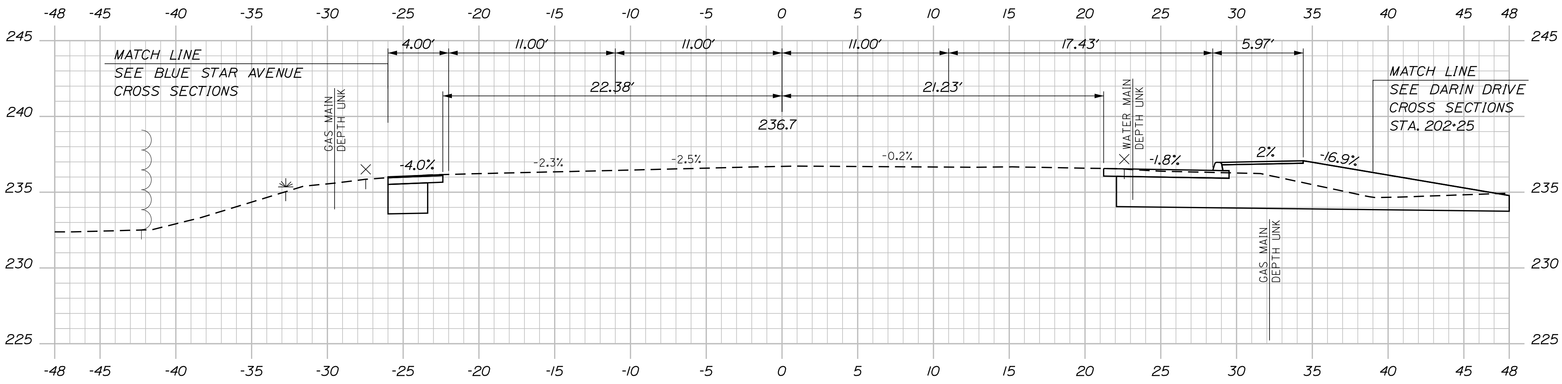
STA. 119+60, RT.
END WIDENING
CONTINUE ROADSIDE DRAINAGE

C = 35 CY



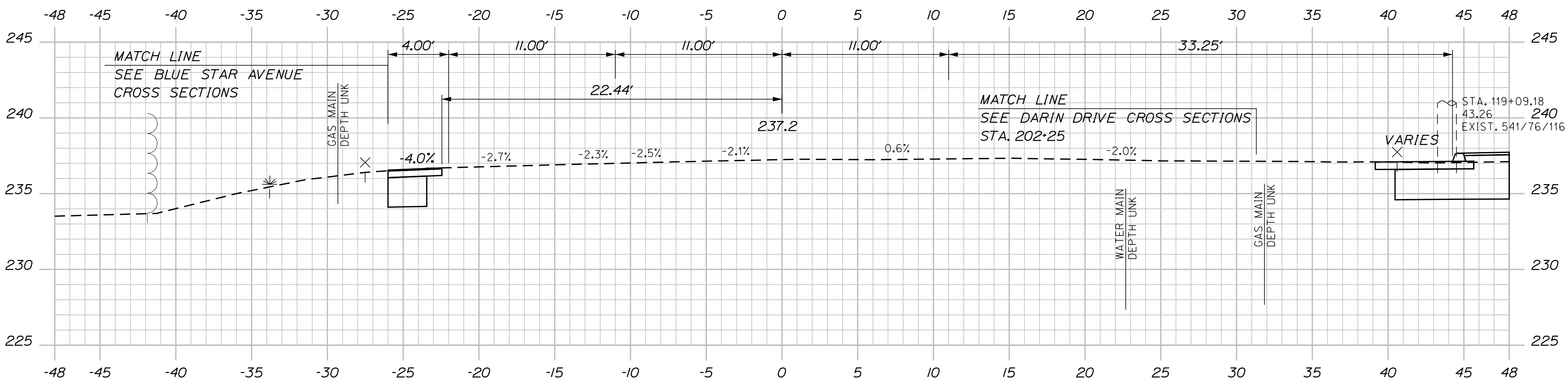
119+50.00

C = 50 CY



119+25.00

C = 22 CY



119+00.00

STA. 118+80.22
ROUTE 27/CIVIC CENTER DRIVE ℄ =
STA. 202+49.21 DARIN DRIVE ℄ =
STA. 299+71.34 BLUE STAR AVENUE ℄

Sta. 119+00.00 to Sta. 119+75.00

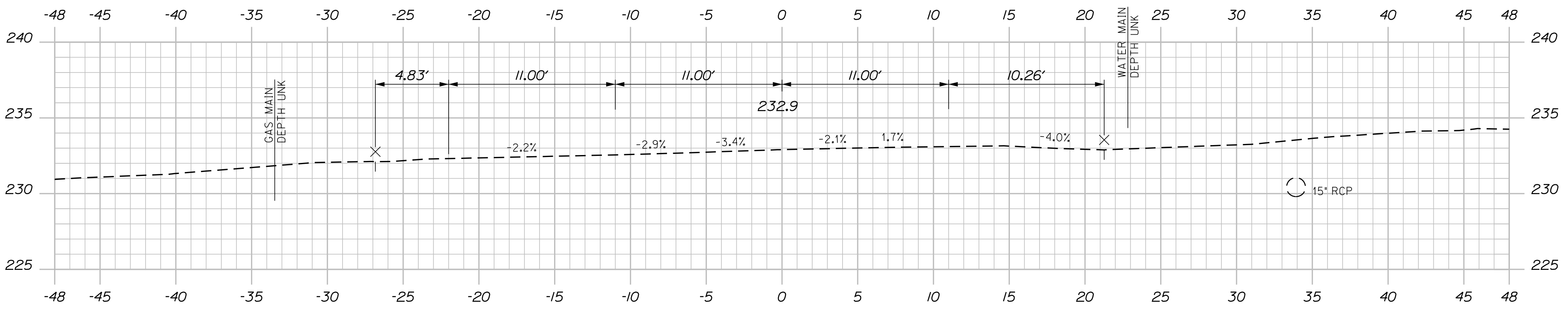
SHEET NUMBER 27 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE
CROSS SECTIONS

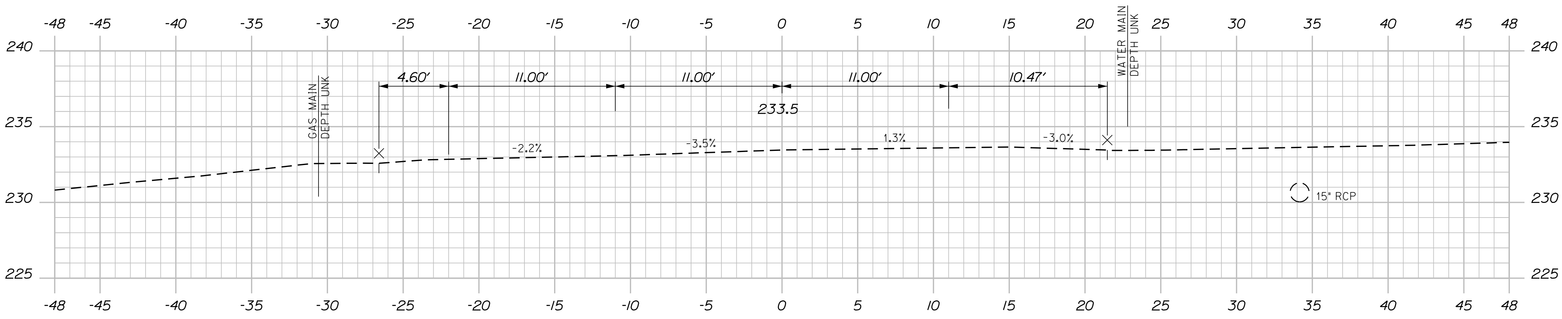
PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

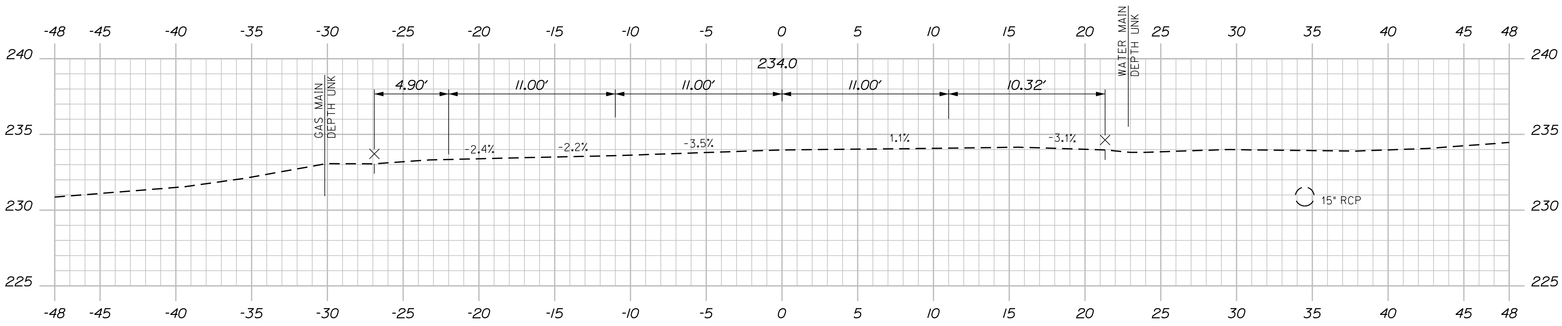
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2056(800)
WIN 20568.00
HIGHWAY PLANS



121+00.00

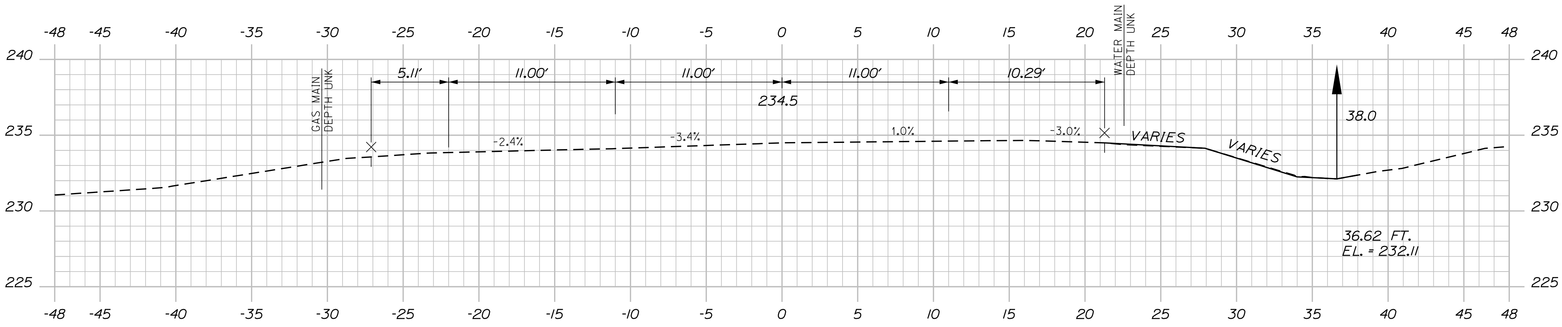


120+75.00



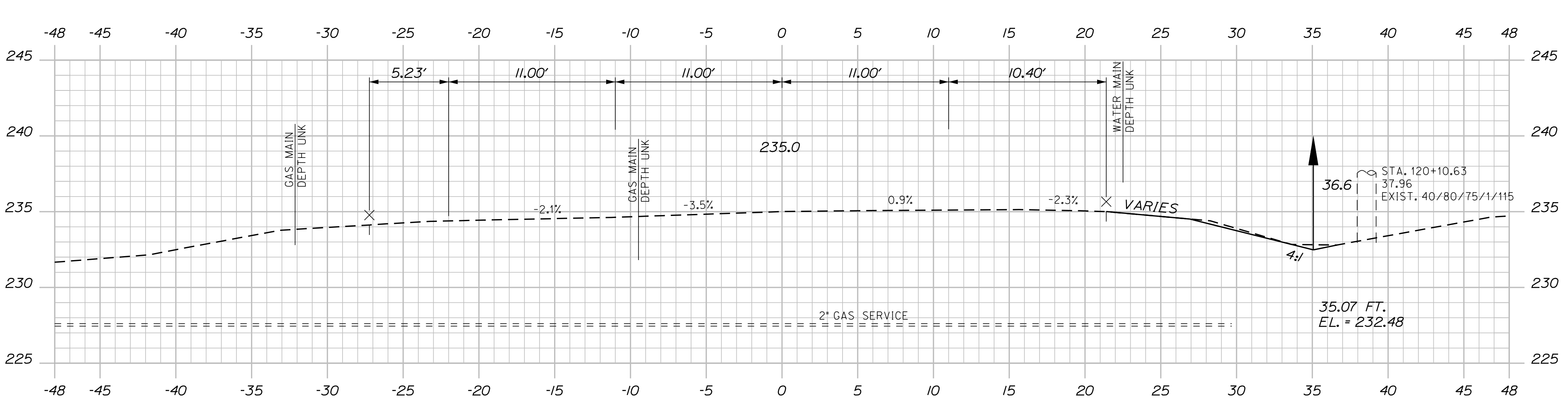
120+50.00

STA. 120+41, RT.
END ROADSIDE DRAINAGE



120+25.00

C = 1 CY



120+00.00

Sta. 120+00.00 to Sta. 121+00.00

SHEET NUMBER 28 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

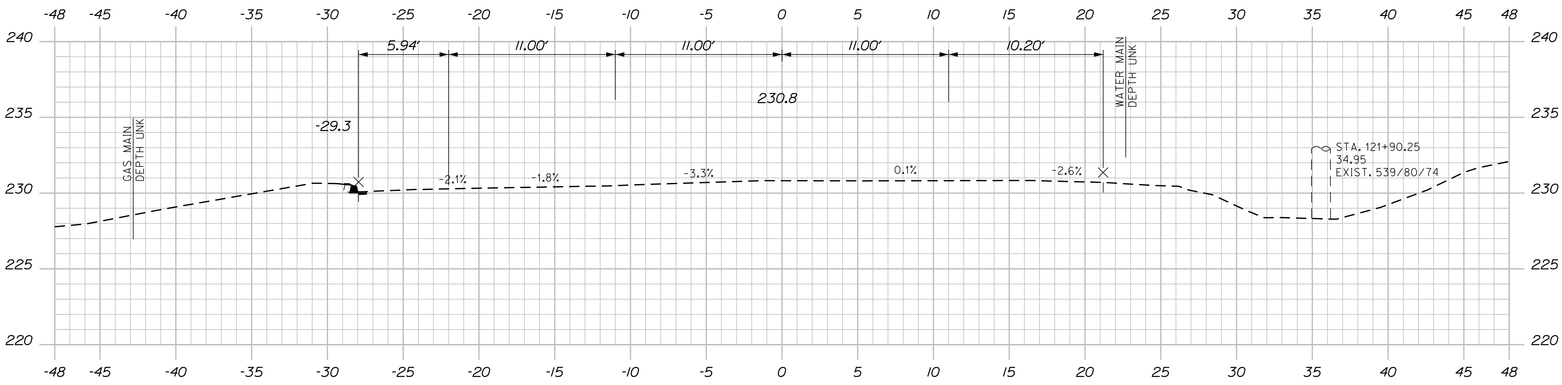
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

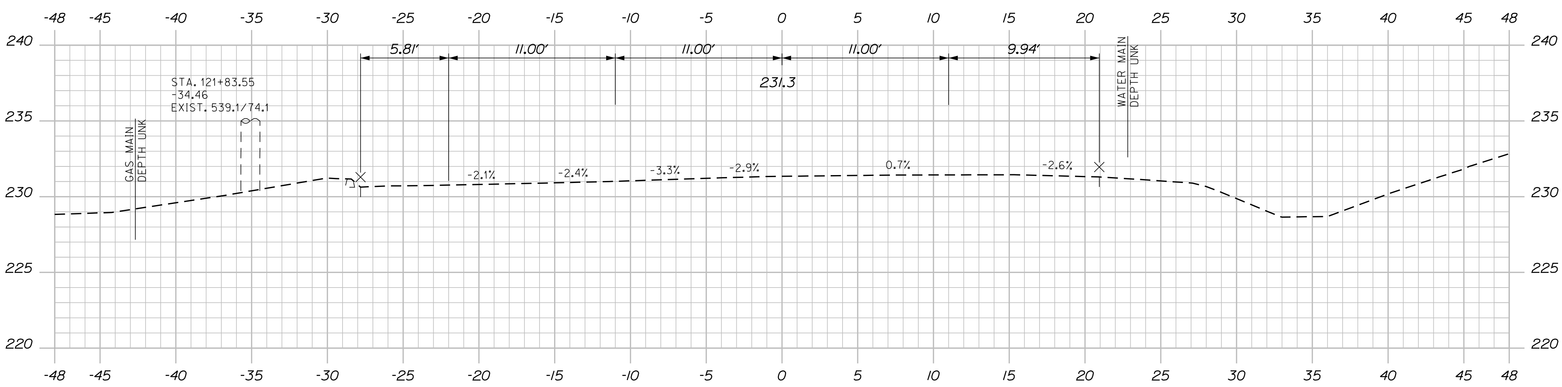
HIGHWAY PLANS

STA. 122+07.7. LT.
INSTALL RIPRAP DOWNSPOUT

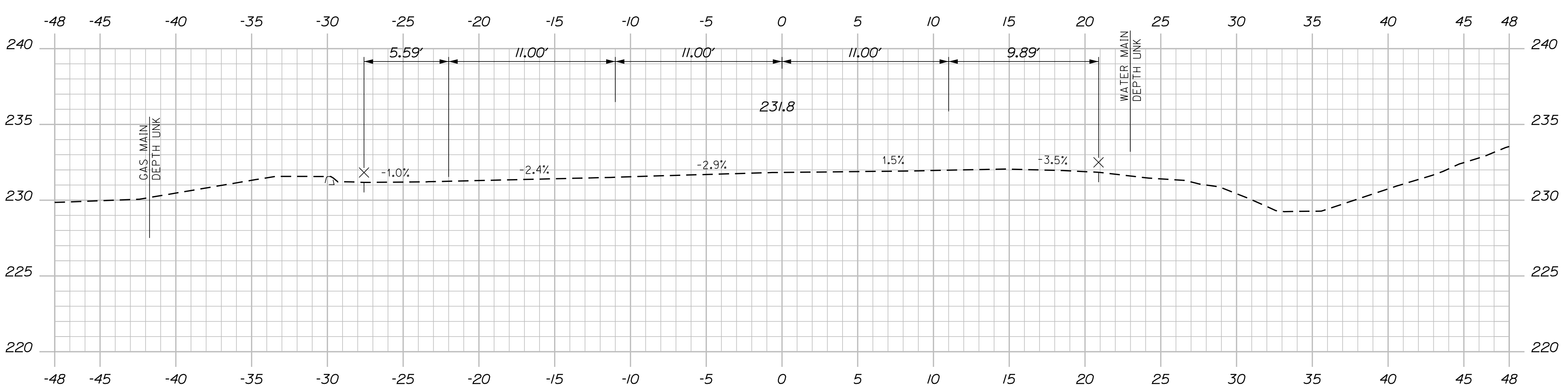


STA. 121+97.42. LT.
BEGIN PAVEMENT REMOVAL

122+00.00

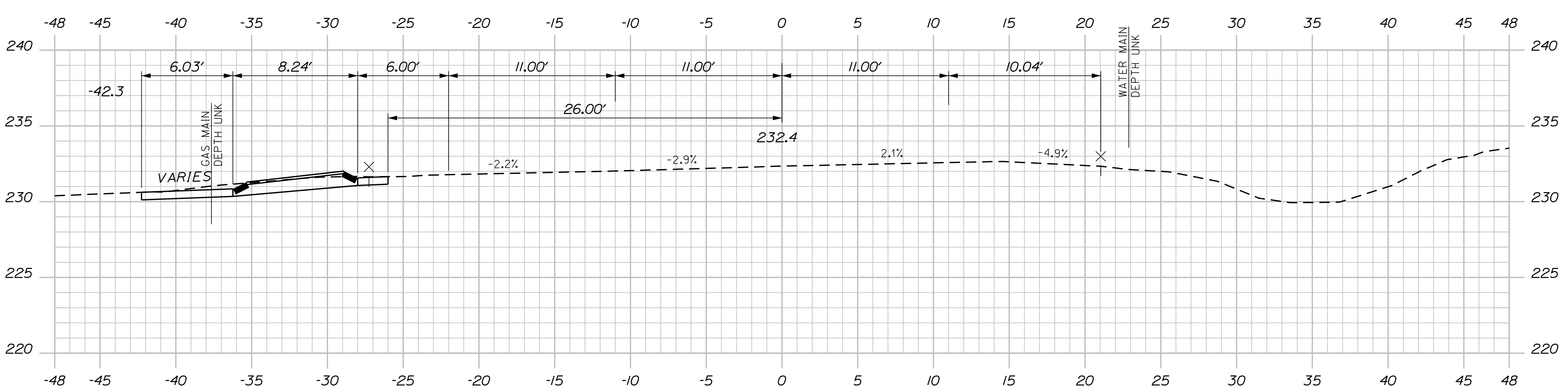


121+75.00



121+50.00

C = 5 CY



121+25.00

C = 5 CY

Sta. 121+25.00 to Sta. 122+00.00

SHEET NUMBER 29 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

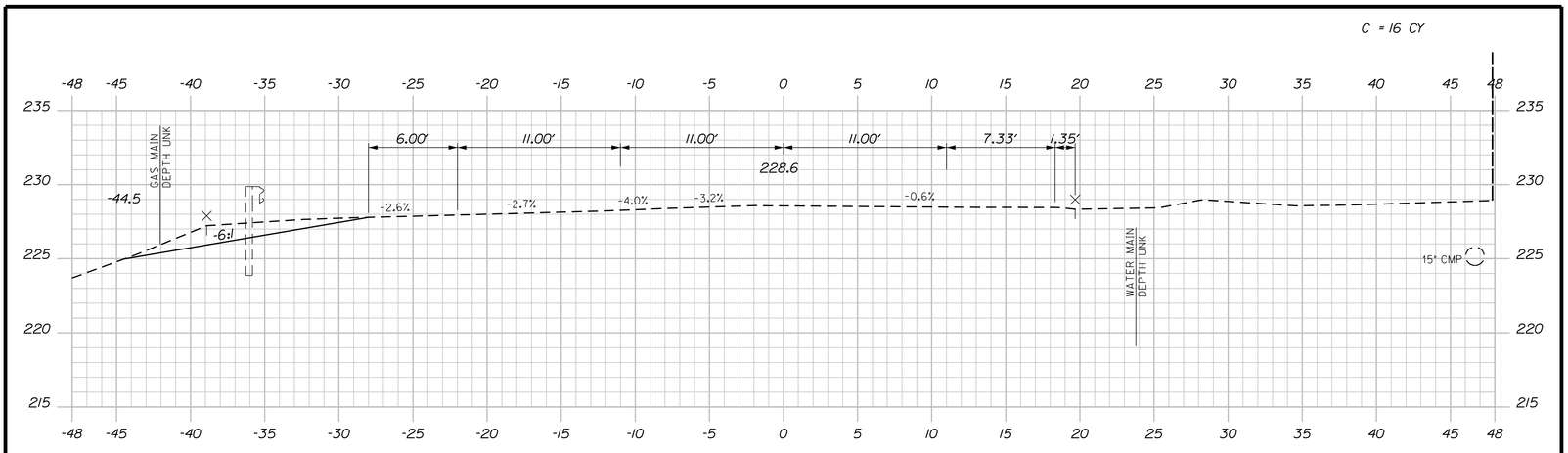
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

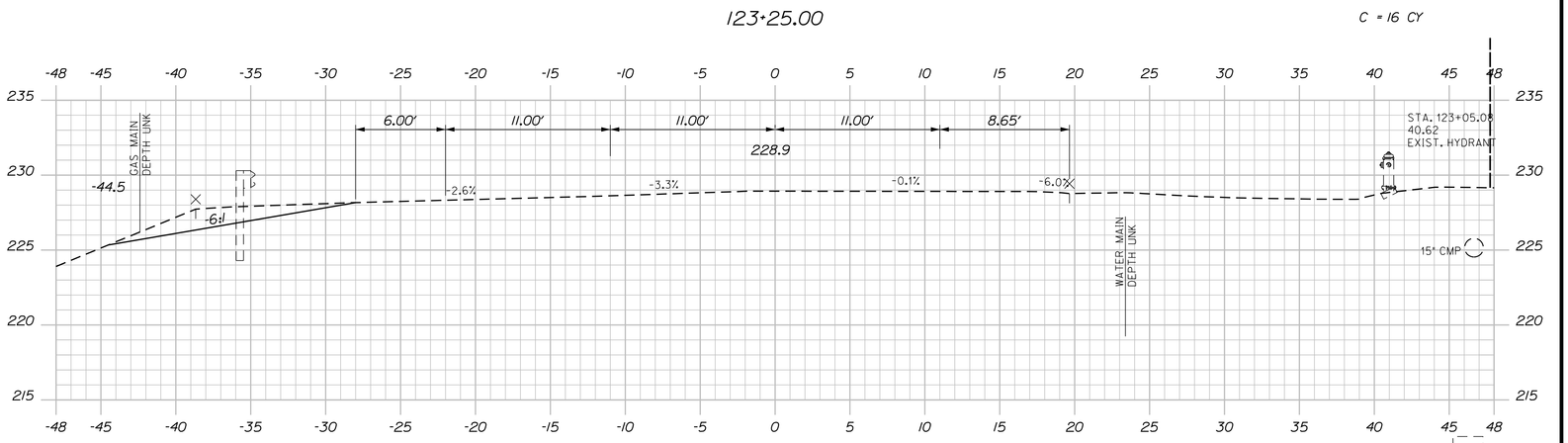
STP-2056(800)

WIN 20568.00

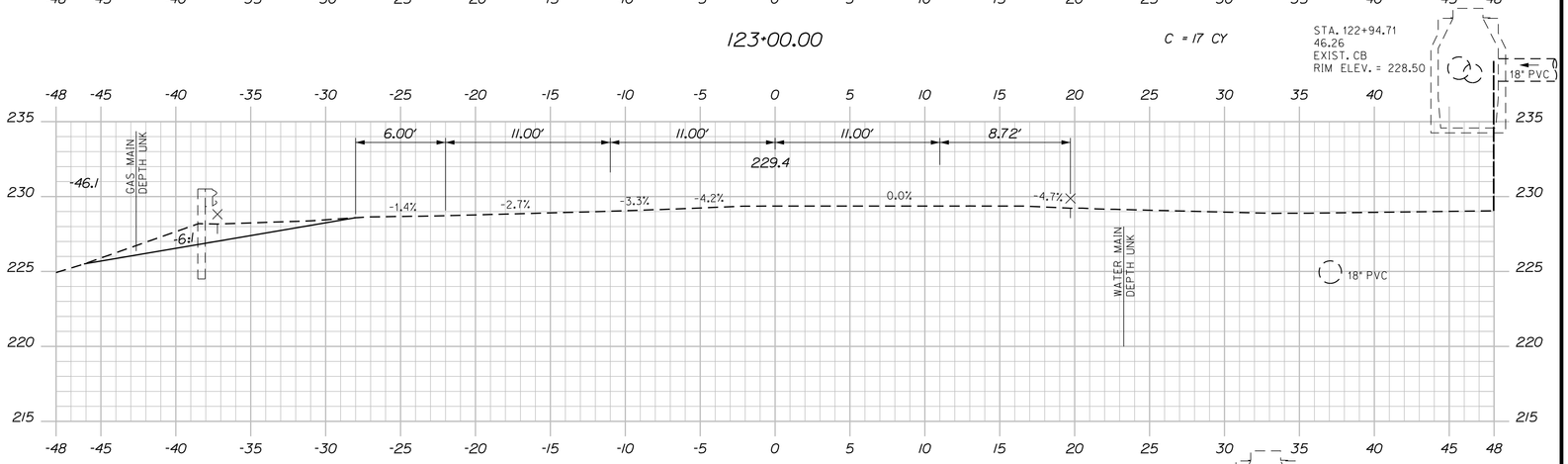
HIGHWAY PLANS



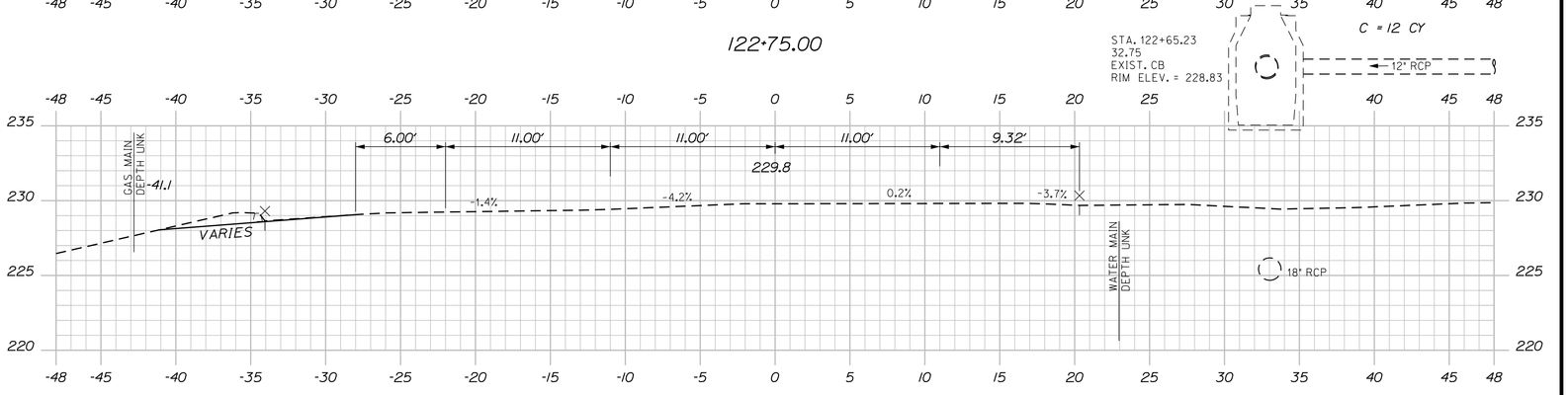
123+25.00



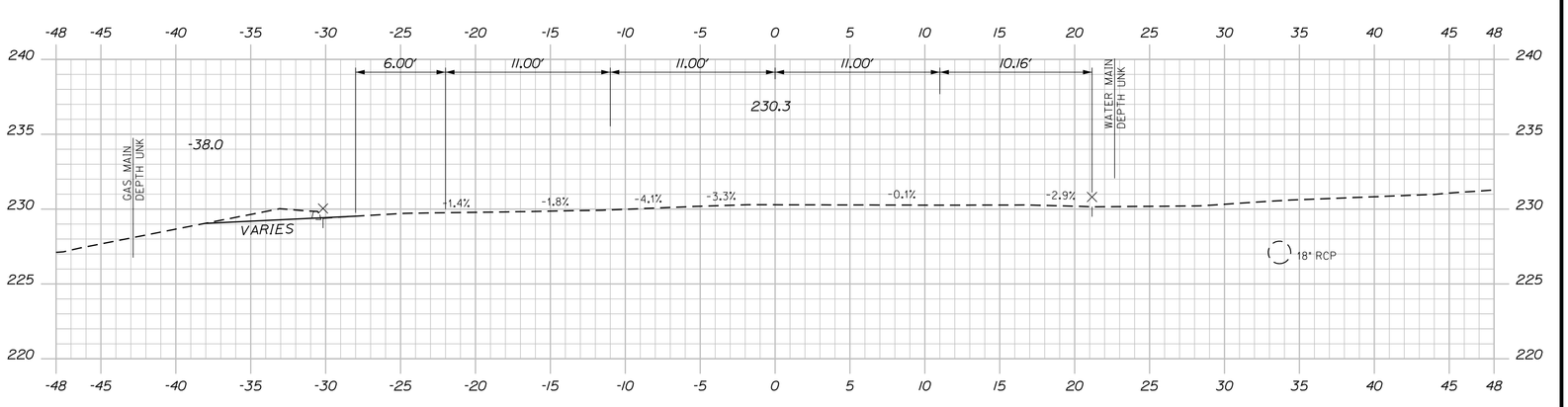
123+00.00



122+75.00



122+50.00



122+25.00

C = 3 CY

Sta. 122+25.00 to Sta. 123+25.00

SHEET NUMBER 30 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

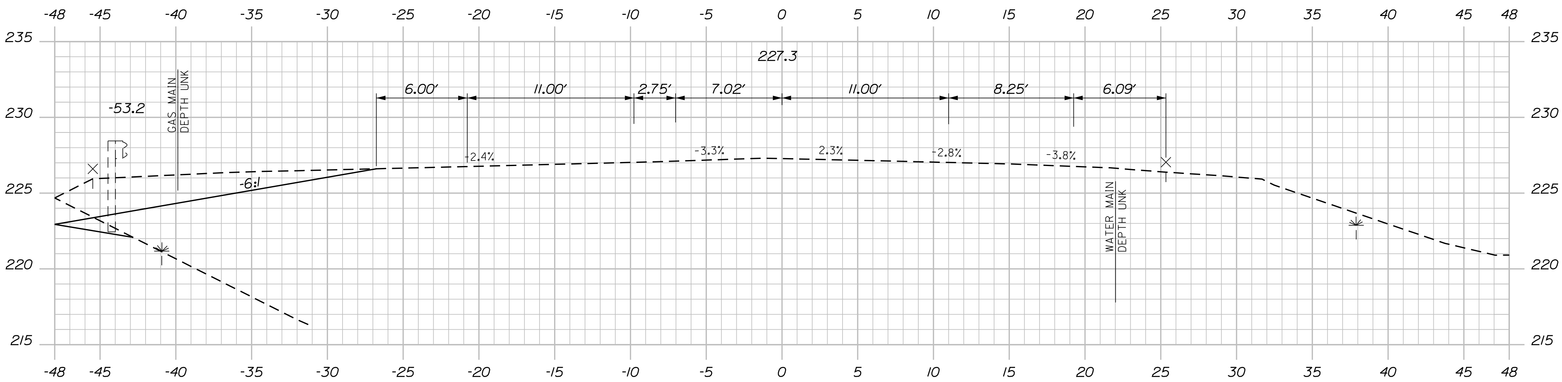
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

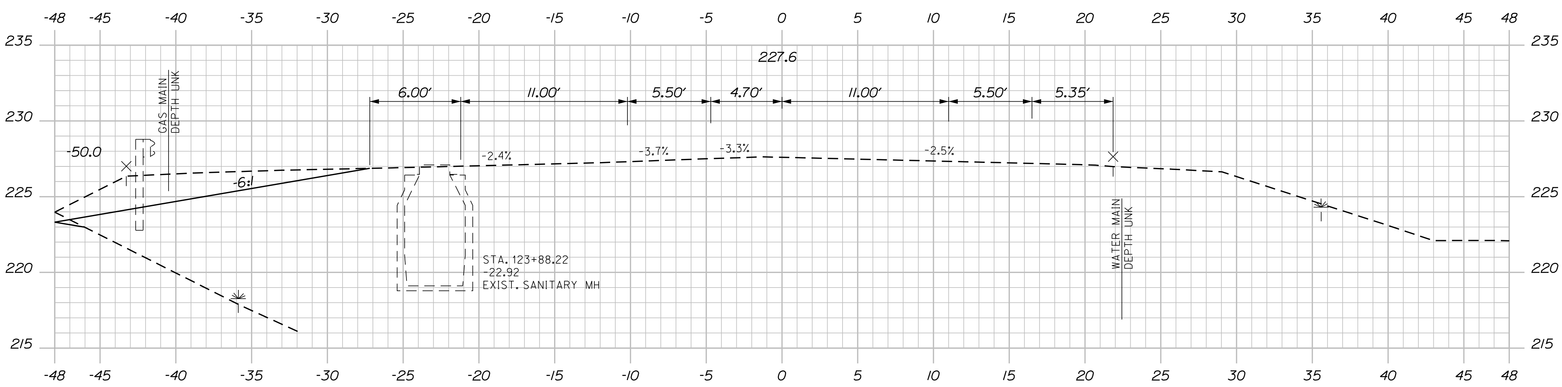
HIGHWAY PLANS

C = 44 CY



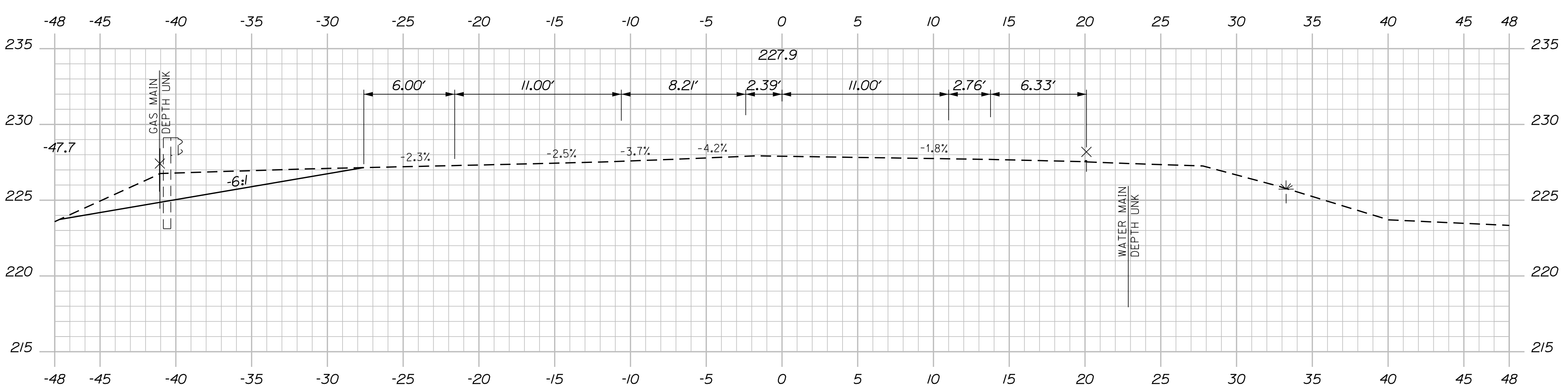
124+25.00

C = 37 CY



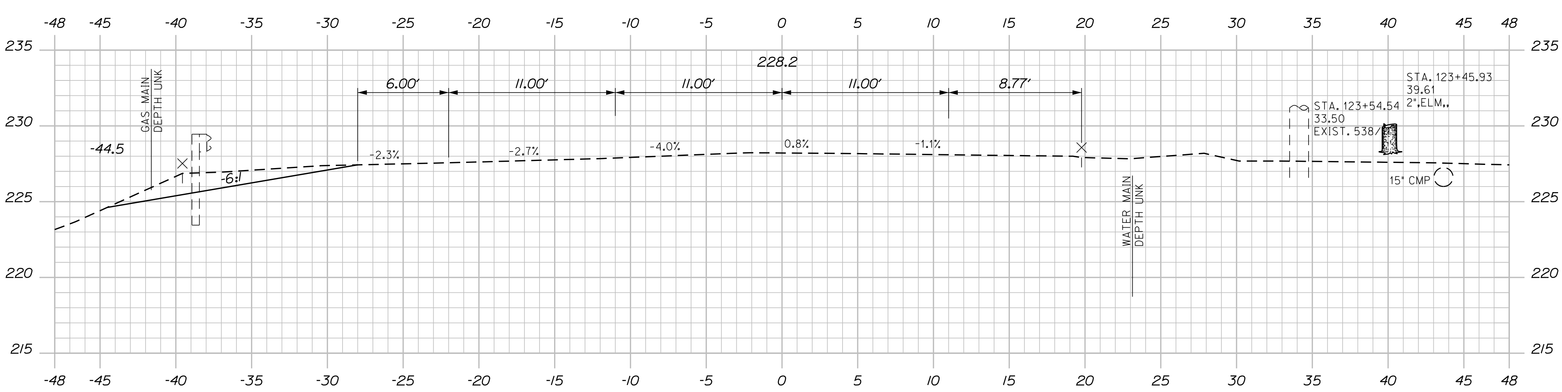
124+00.00

C = 28 CY



123+75.00

C = 20 CY



123+50.00

Sta. 123+50.00 to Sta. 124+25.00

SHEET NUMBER 31 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

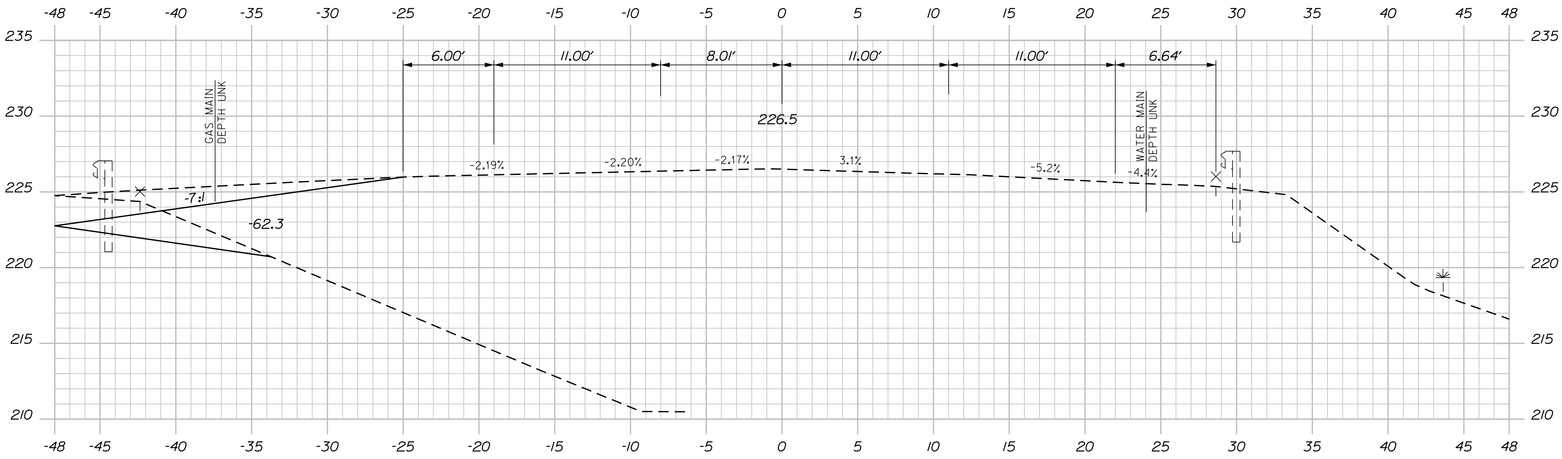
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

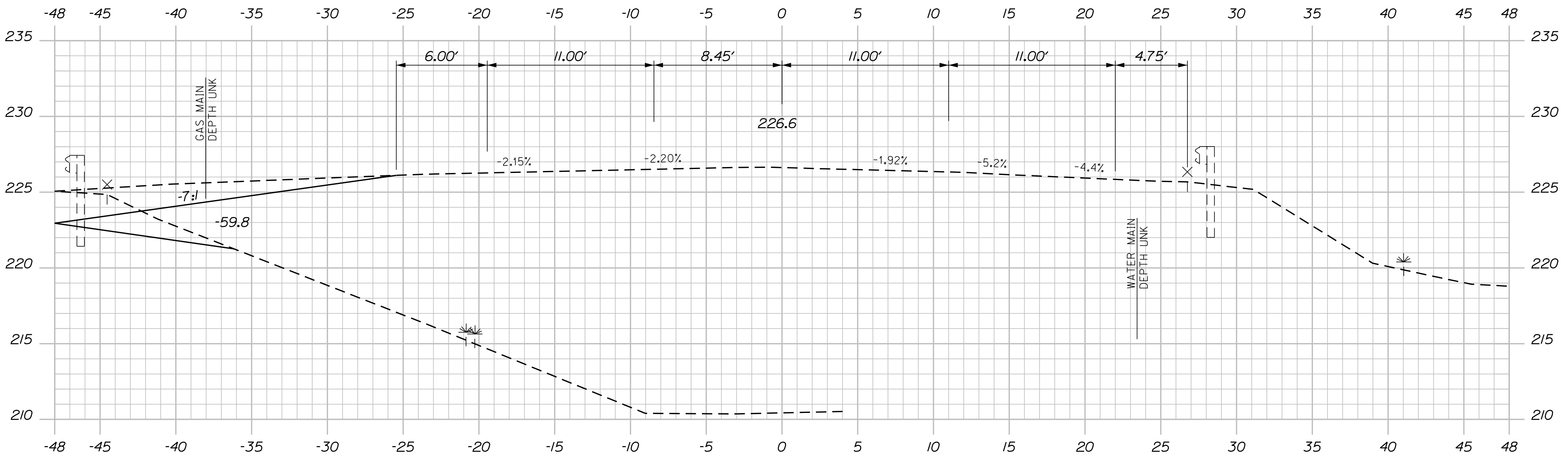
HIGHWAY PLANS

C = 50 CY



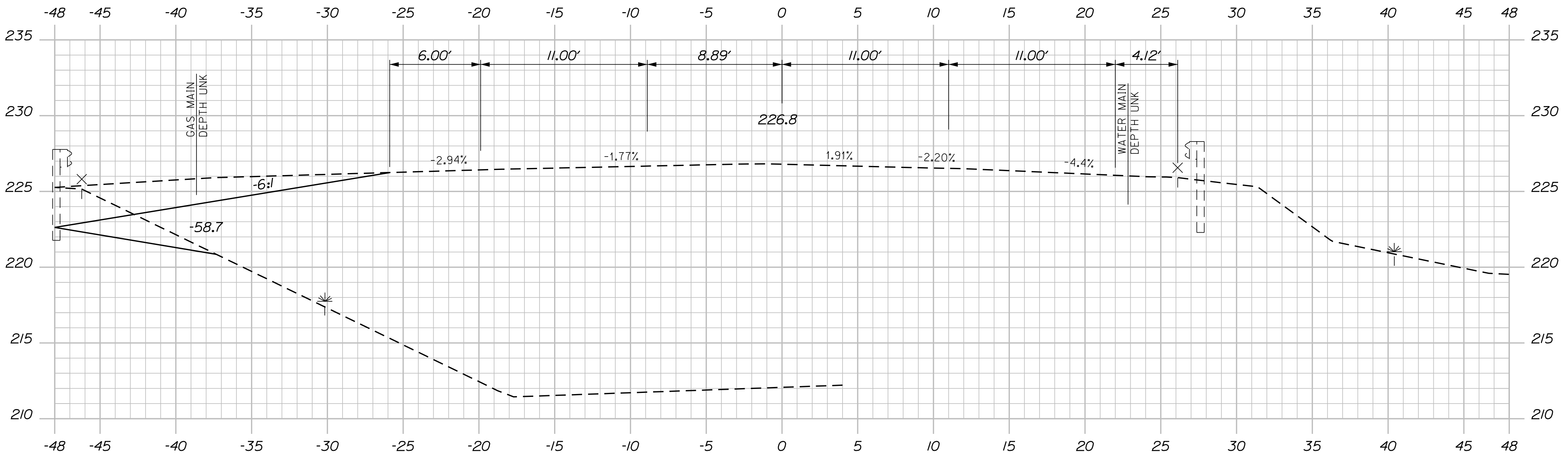
125+25.00

C = 51 CY



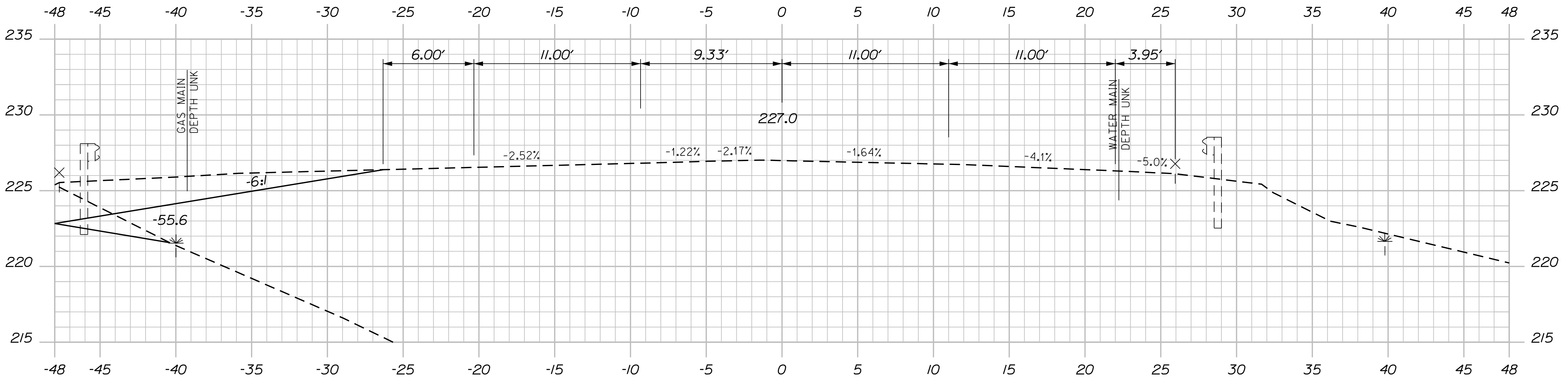
125+00.00

C = 52 CY



124+75.00

C = 50 CY



124+50.00

Sta. 124+50.00 to Sta. 125+25.00

SHEET NUMBER 32 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

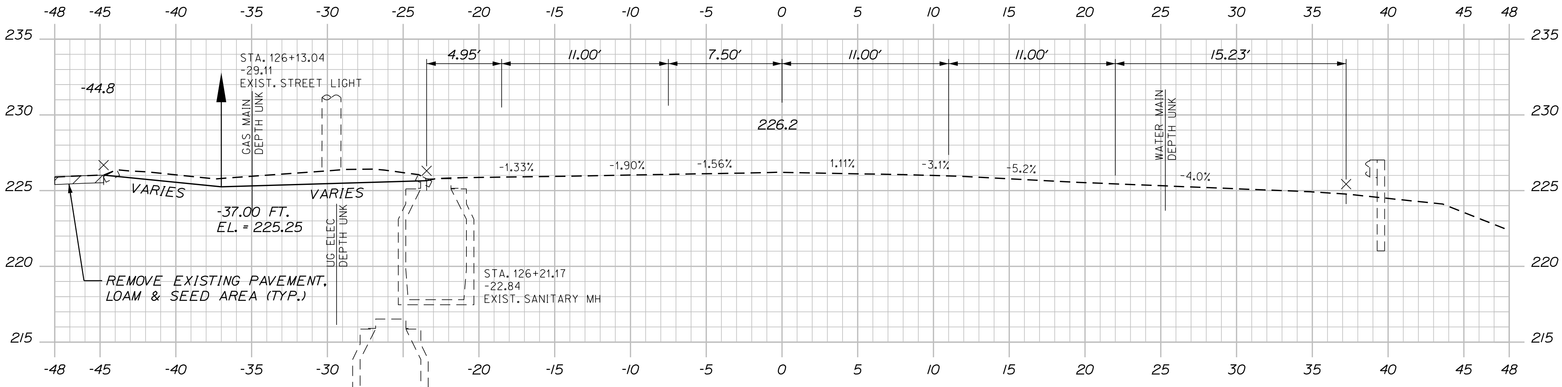
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

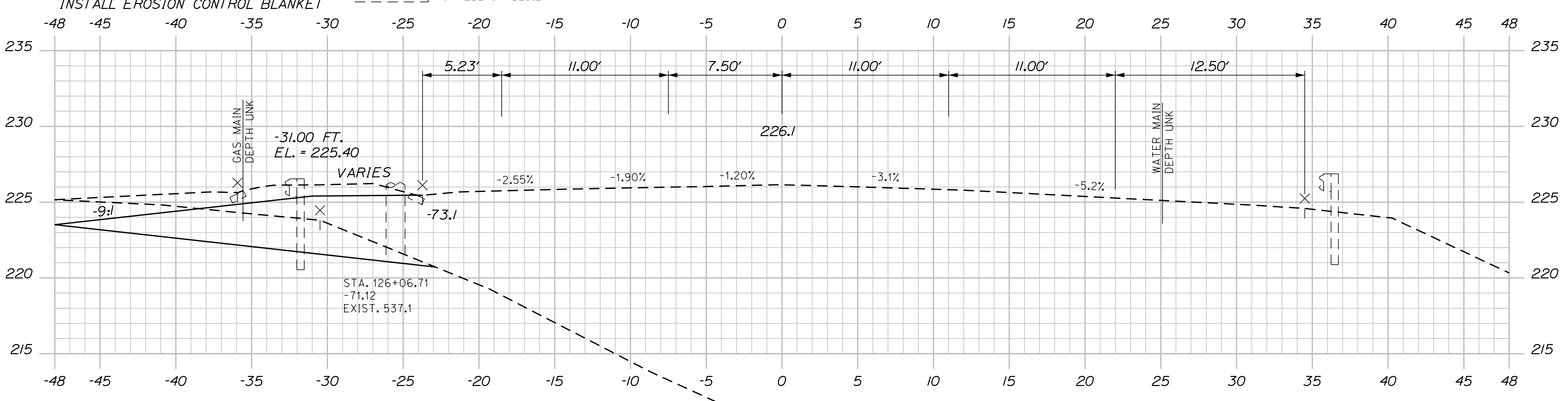
HIGHWAY PLANS

C = 14 CY



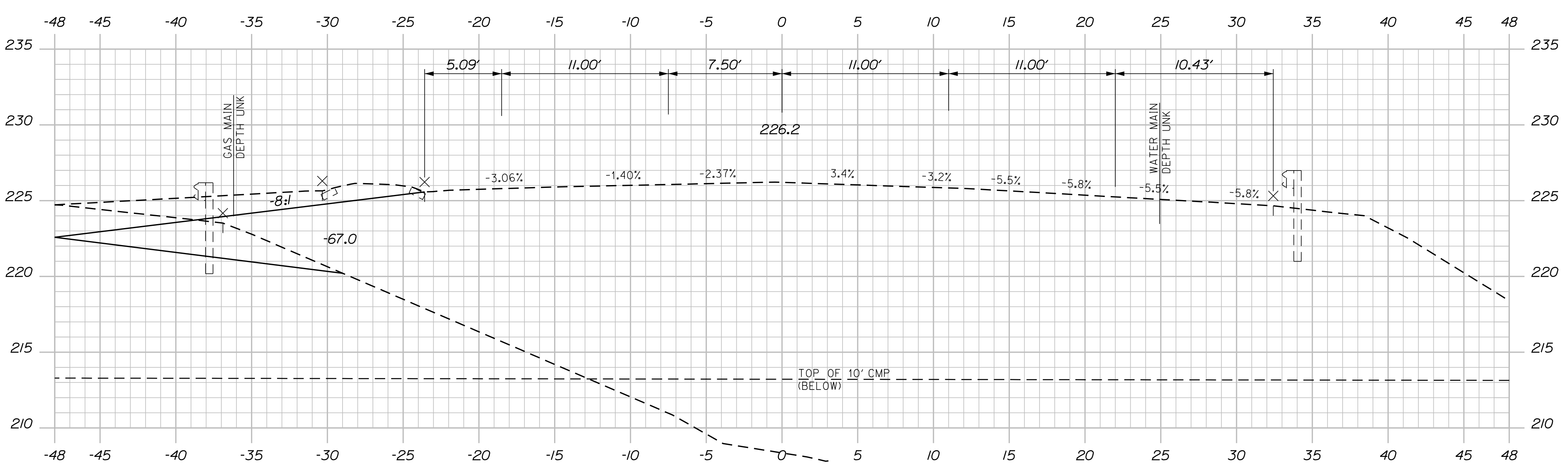
126+25.00

C = 48 CY



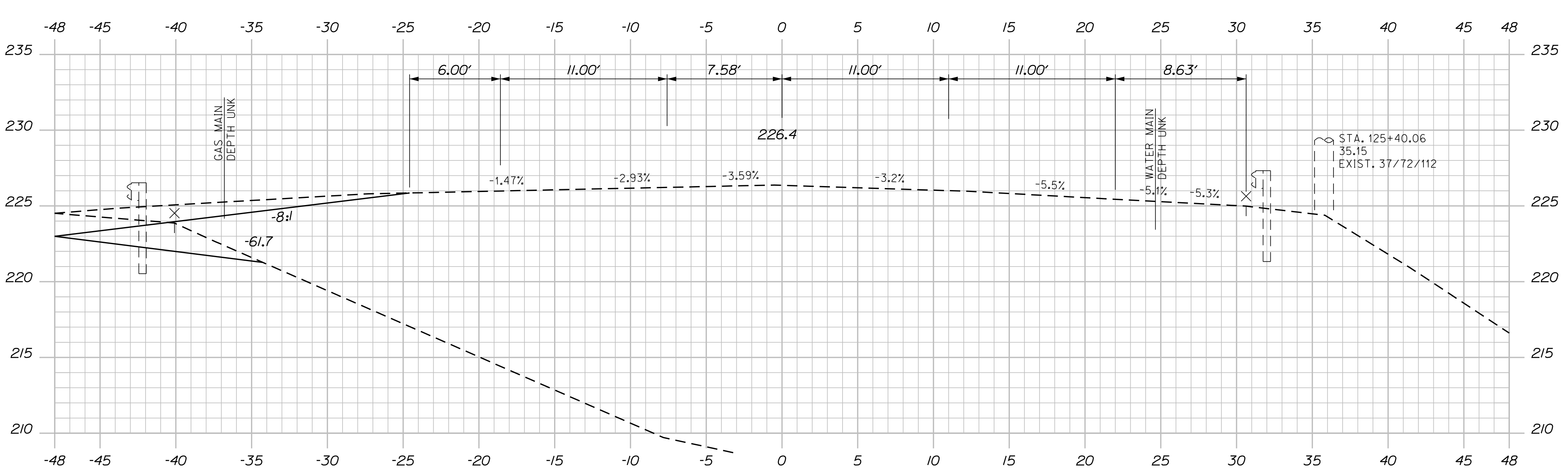
126+00.00

C = 76 CY



125+75.00

C = 61 CY



125+50.00

Sta. 125+50.00 to Sta. 126+25.00

SHEET NUMBER 33 OF 50	AUGUSTA ROUTE 27 & DARIN DRIVE	PROJ. MANAGER	B. KEEZER	BY	DATE
		DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
		CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
		DESIGN2-DETAILED2			
		DESIGN3-DETAILED3			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			

SIGNATURE

P.E. NUMBER

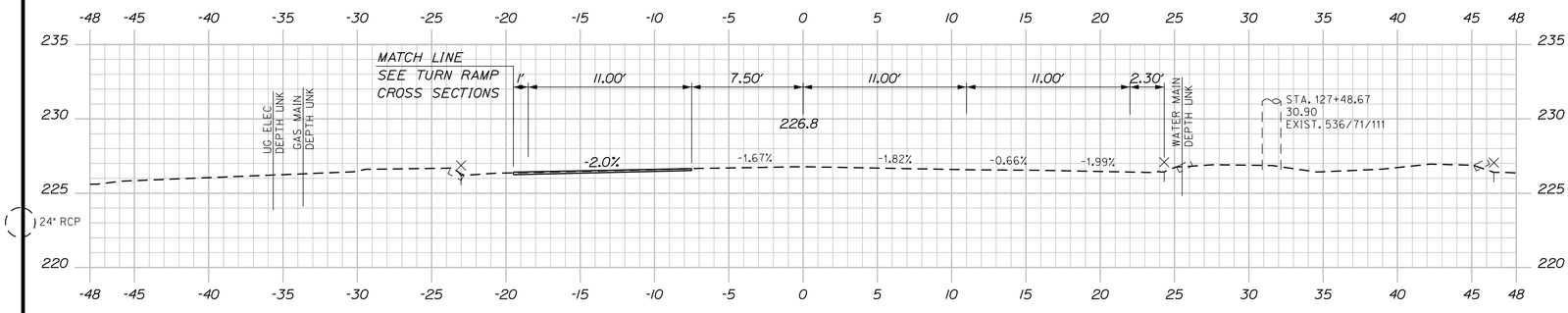
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

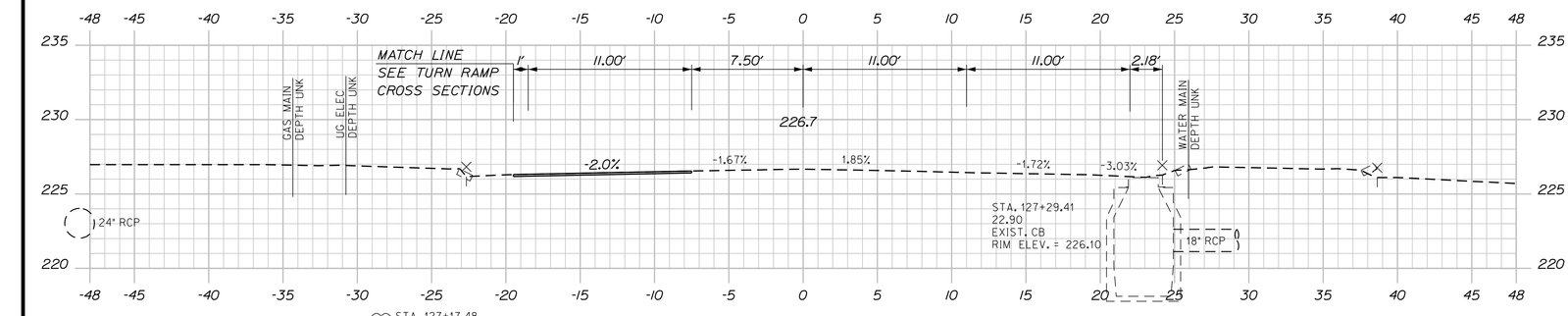
STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

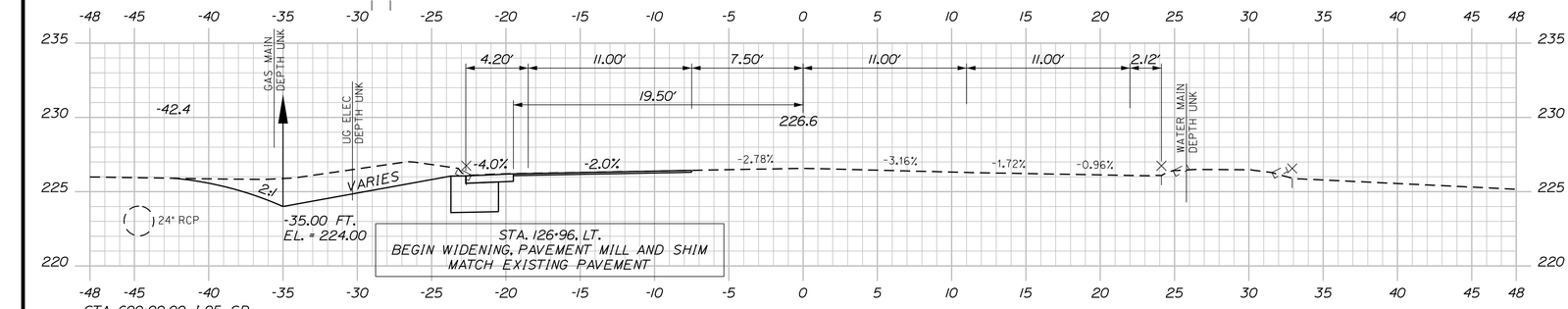


127+50.00



STA. 127+17.48
-27.78
EXIST. STREET LIGHT

127+25.00

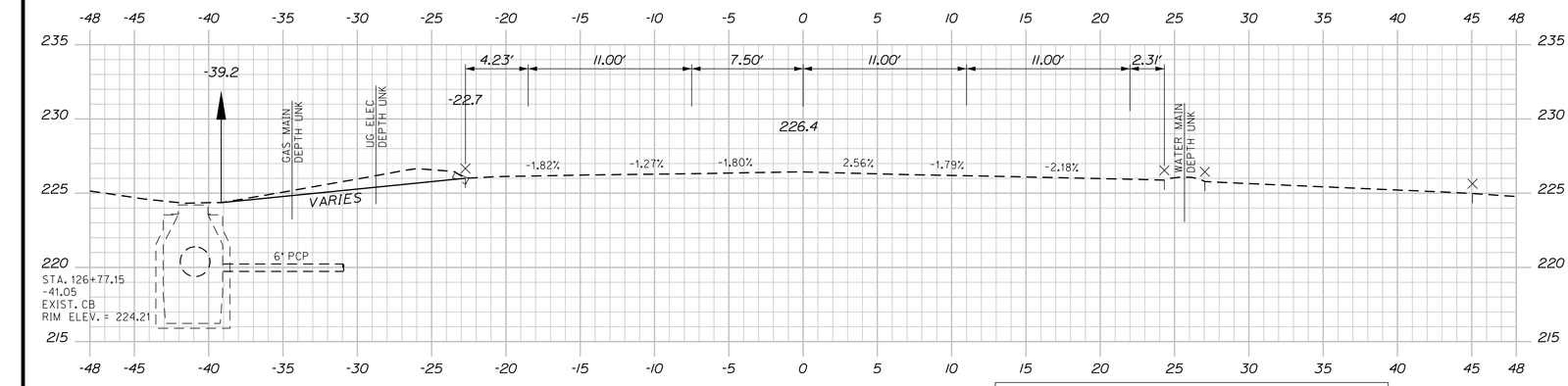


STA. 600+00.00 I-95 SB
OFF RAMP TURN LANE ℄ =
STA. 126+96.15 ROUTE 27
CIVIC CENTER DRIVE ℄, 18.50' LT.

STA. 127+00 TO STA. 600+85, LT.
INSTALL EROSION CONTROL BLANKET

127+00.00

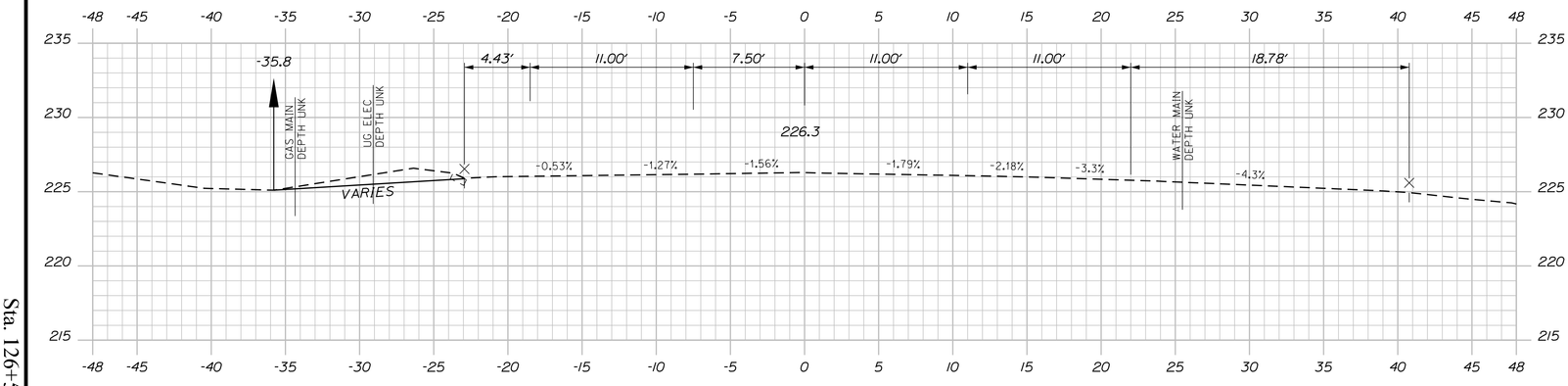
C = 23 CY



126+75.00

STA. 126+74. RT.
LIMIT OF WORK
MATCH EXISTING RAMP STRIPING

C = 11 CY



126+50.00

Sta. 126+50.00 to Sta. 127+50.00

SHEET NUMBER 34 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

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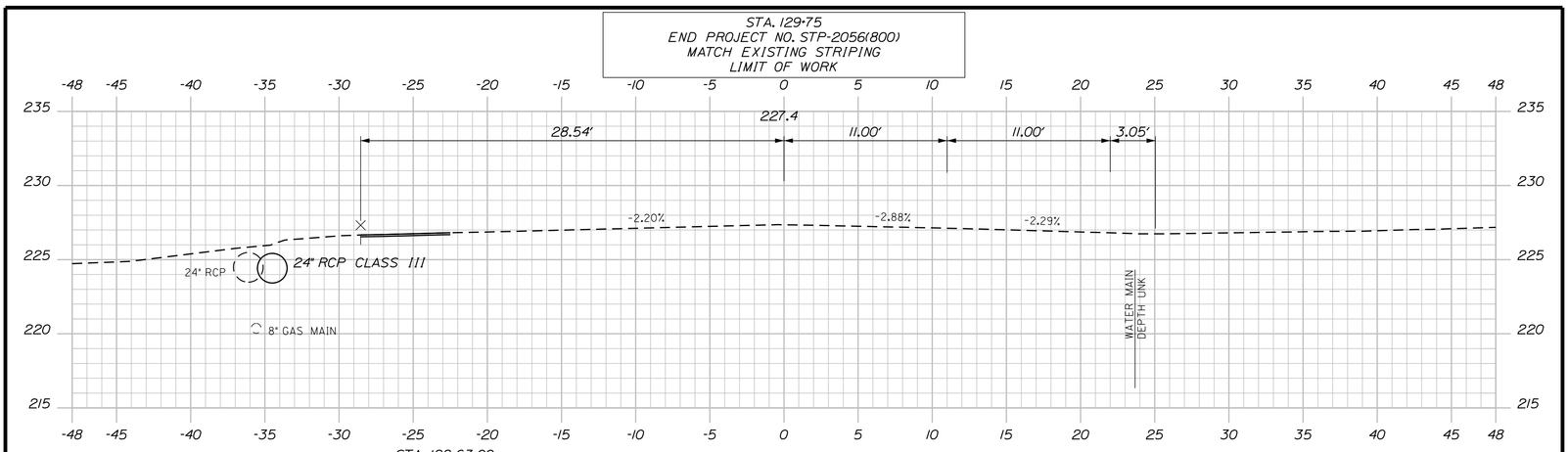
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

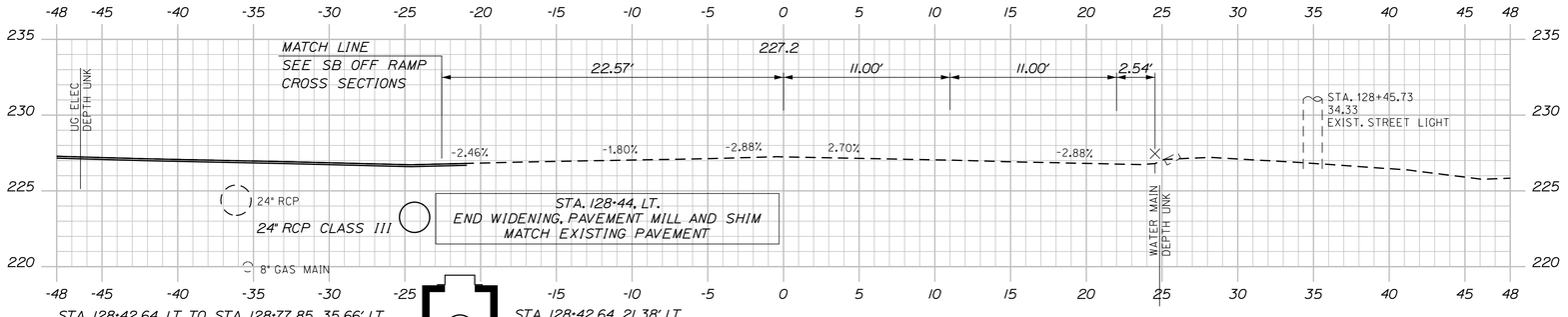
WIN 20568.00

HIGHWAY PLANS



STA. 128+63.00
ROUTE 27/CIVIC CENTER DRIVE ℄ =
STA. 500+00.00
I-95 SOUTHBOUND OFF RAMP ℄

128+75.00

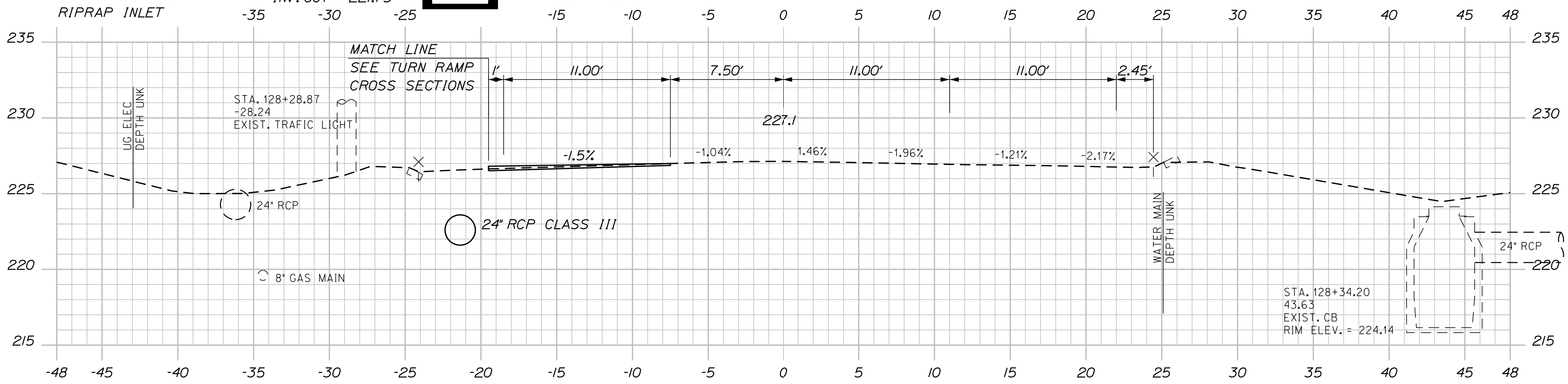


STA. 128+42.64, LT. TO STA. 128+77.85, 35.66' LT.
INSTALL 36' X 24" RCP CLASS III
WITH PIPE TIES
INV. IN = 223.55
RIPRAP INLET

INV. IN = 222.00
INV. OUT = 221.75

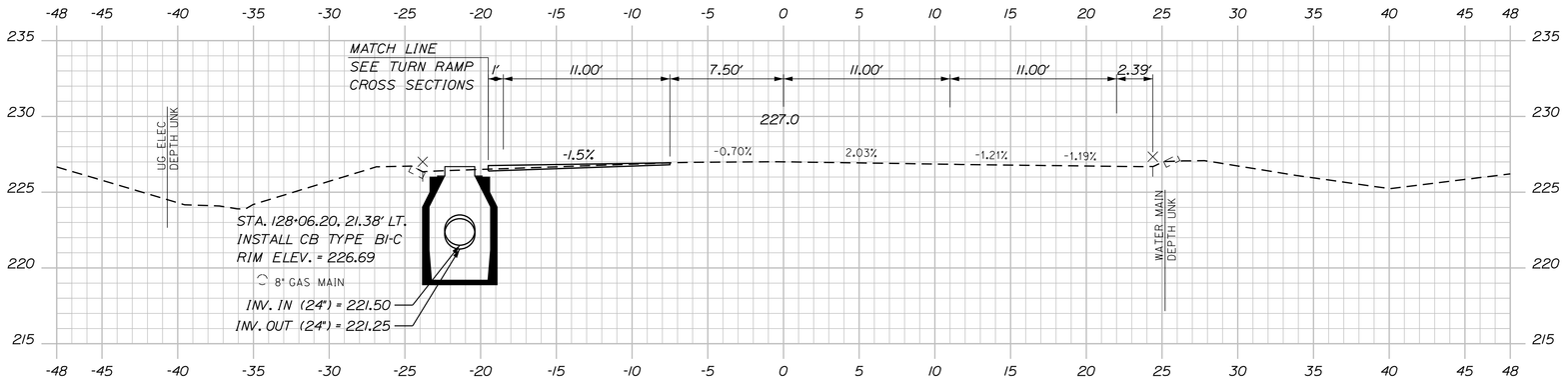
STA. 128+42.64, 21.38' LT.
INSTALL CB TYPE BI-C
WITH FLAT TOP
RIM ELEV. = 226.63

128+50.00

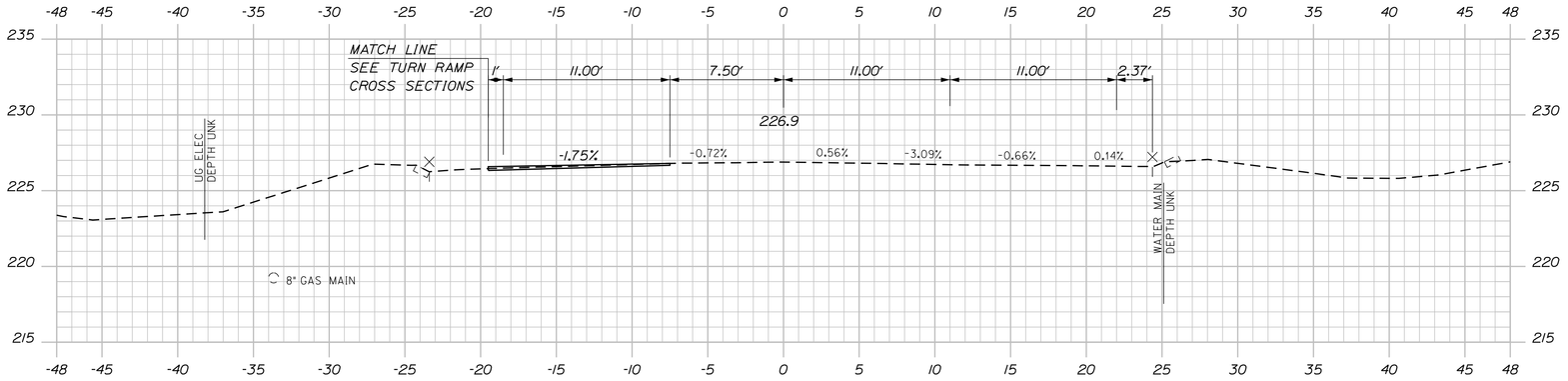


STA. 128+06.20, LT. TO STA. 128+42.64, LT.
INSTALL 32.4' X 24" RCP CLASS III

128+25.00



128+00.00



127+75.00

Sta. 127+75.00 to Sta. 128+75.00

SHEET NUMBER 35 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

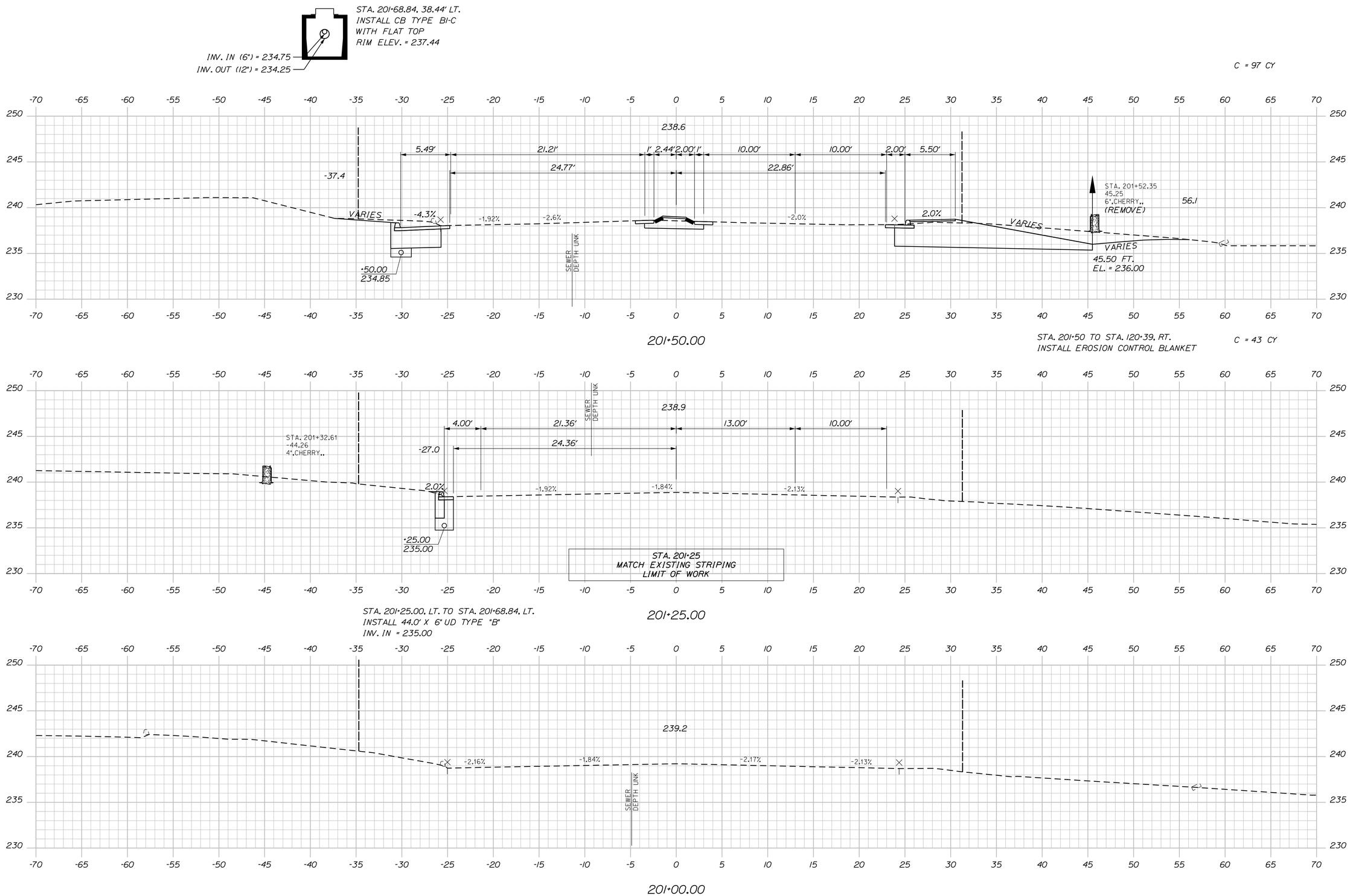
SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

PIN
20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA
ROUTE 27 & DARIN DRIVE

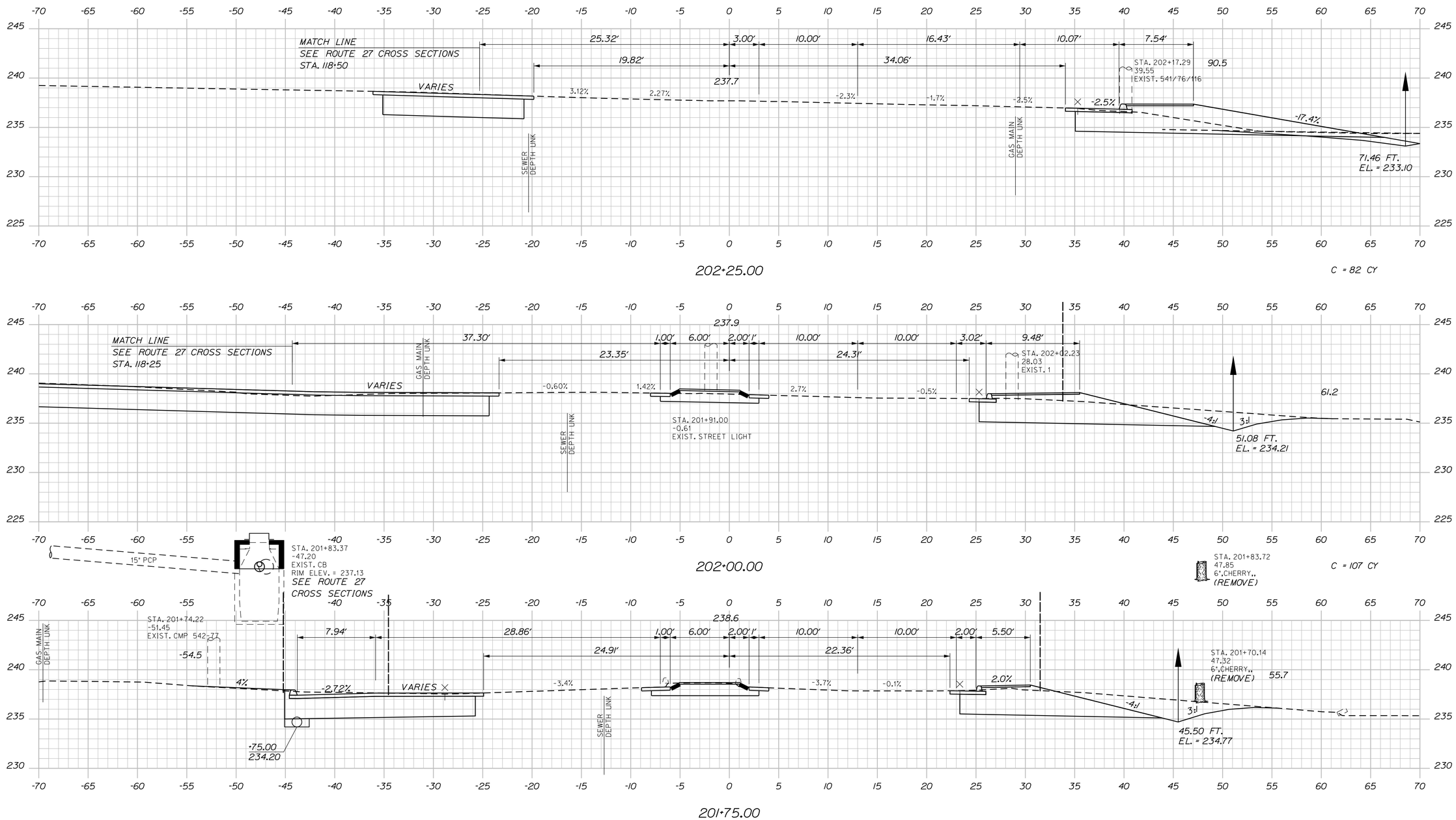
CROSS SECTIONS

SHEET NUMBER
36
OF 50

Filename: ...\Z - CAD\00\Highway\Xsect.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016

Sta. 201+00.00 to Sta. 201+50.00

STA. 118+80.22
ROUTE 27/CIVIC CENTER DRIVE ℄ =
STA. 202+49.21 DARIN DRIVE ℄ =
STA. 299+71.34 BLUE STAR AVENUE ℄



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

PIN
20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER		
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

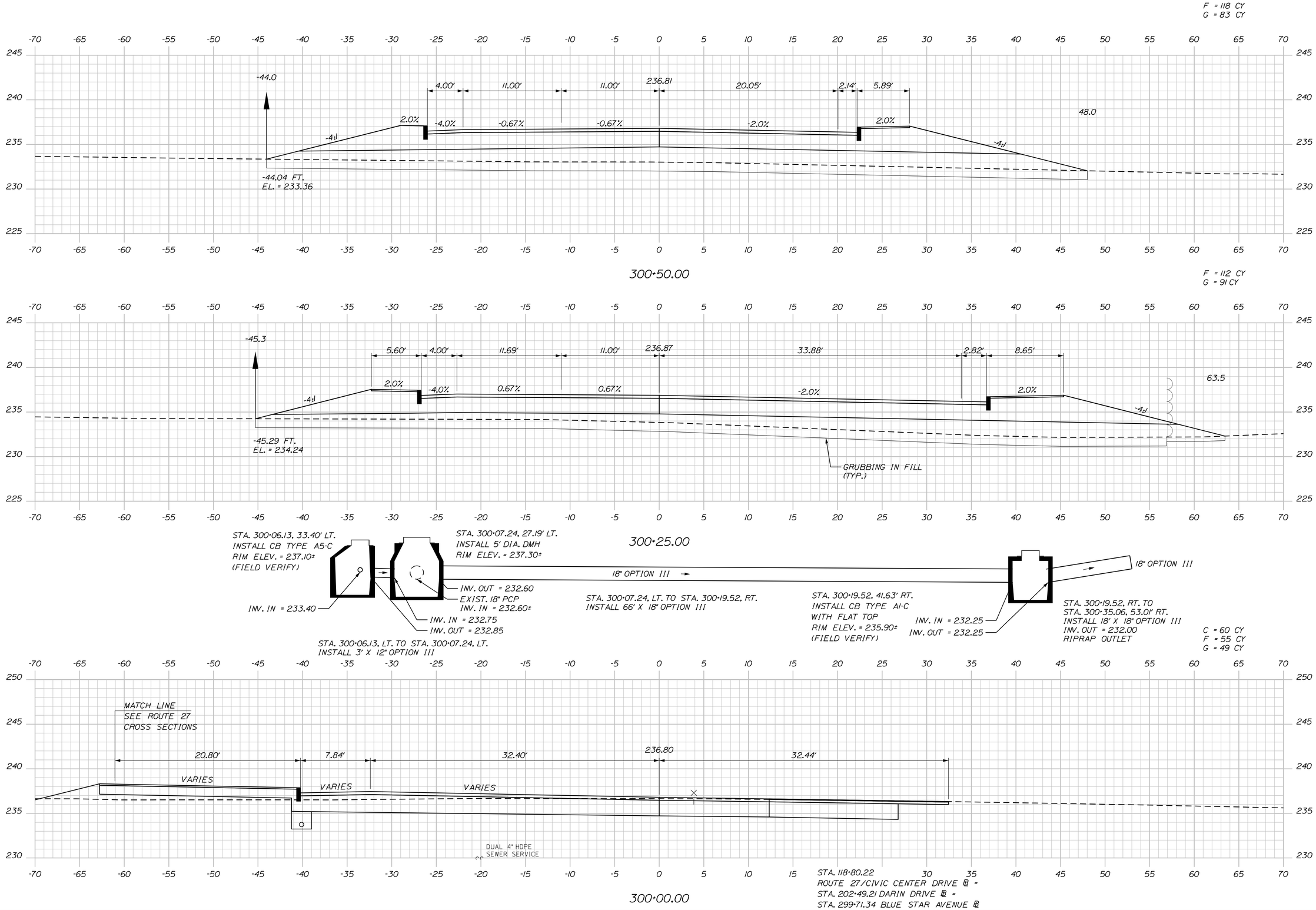
AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

SHEET NUMBER
37
OF 50

Sta. 201+75.00 to Sta. 202+25.00

Filename: ...\Z - CAD\00\Highway\Xsect.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

PIN
20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04/16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04/16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

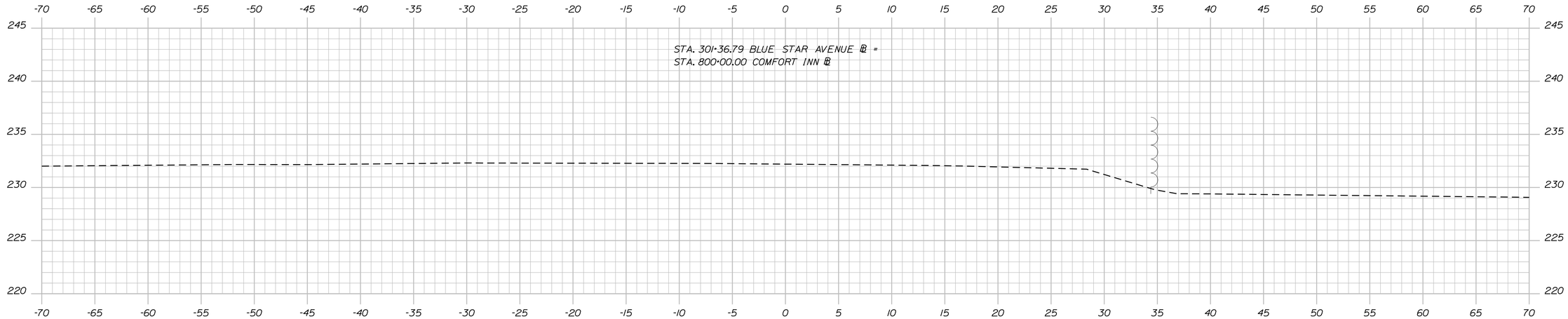
AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

SHEET NUMBER
38
OF 50

Sta. 300+00.00 to Sta. 300+50.00

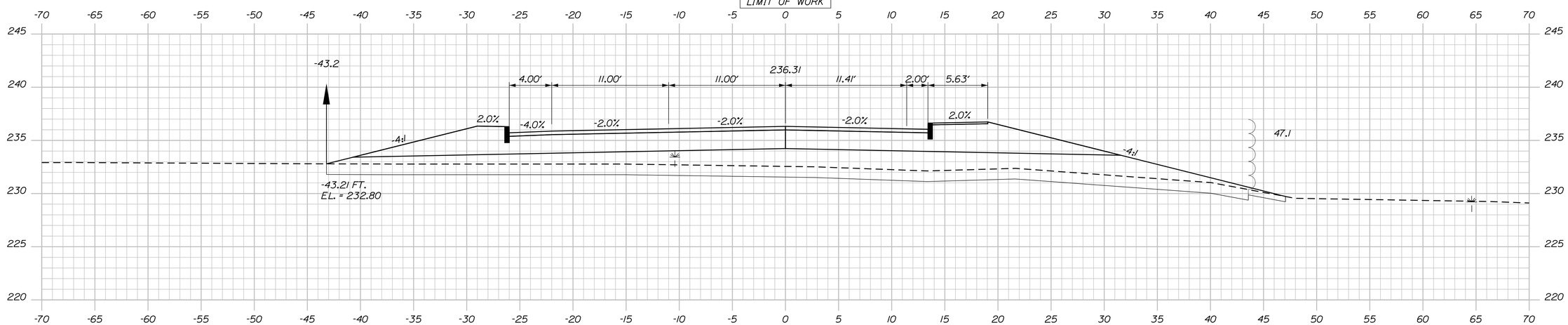
Filename: ...\Z - CAD\00\Highway\Xsect.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



301+25.00

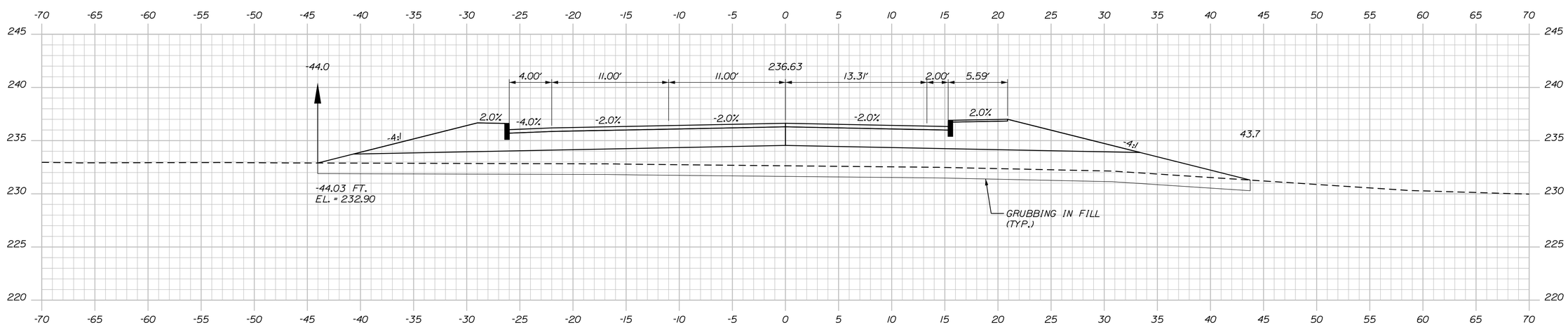
STA. 301+15.37
LIMIT OF WORK

F = 63 CY
G = 50 CY



301+00.00

F = 109 CY
G = 82 CY



300+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

PIN
20568.00

HIGHWAY PLANS

PROJ. MANAGER	B. KEEZER	BY	DATE	
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04.16	
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04.16	
DESIGN2-DETAILED2				
DESIGN3-DETAILED3				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

SIGNATURE

P.E. NUMBER

DATE

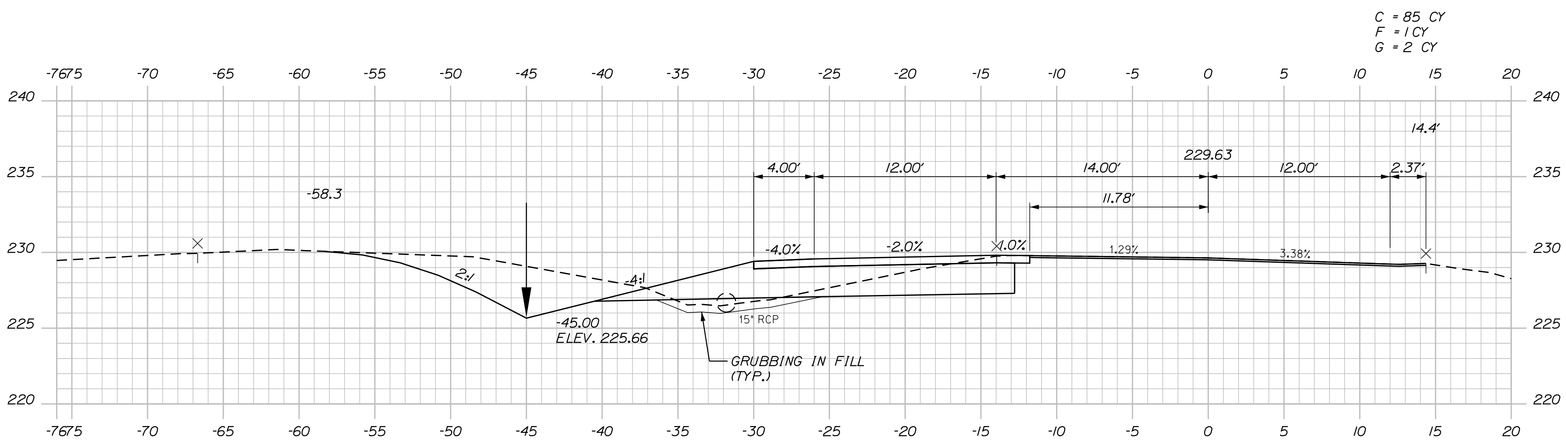
AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

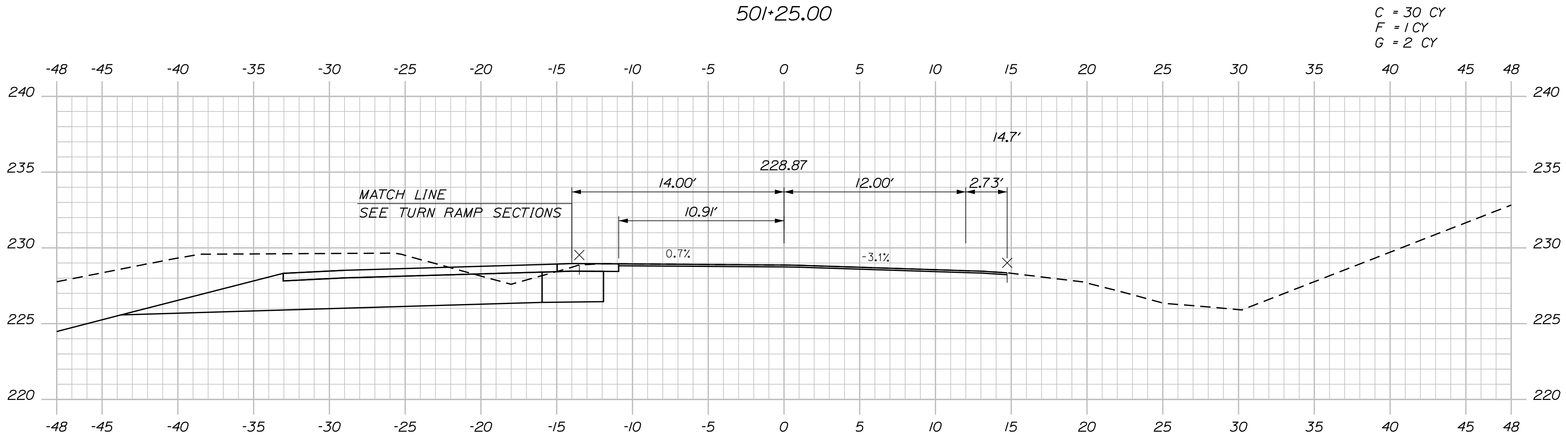
SHEET NUMBER
39
OF 50

Sta. 300+75.00 to Sta. 301+25.00

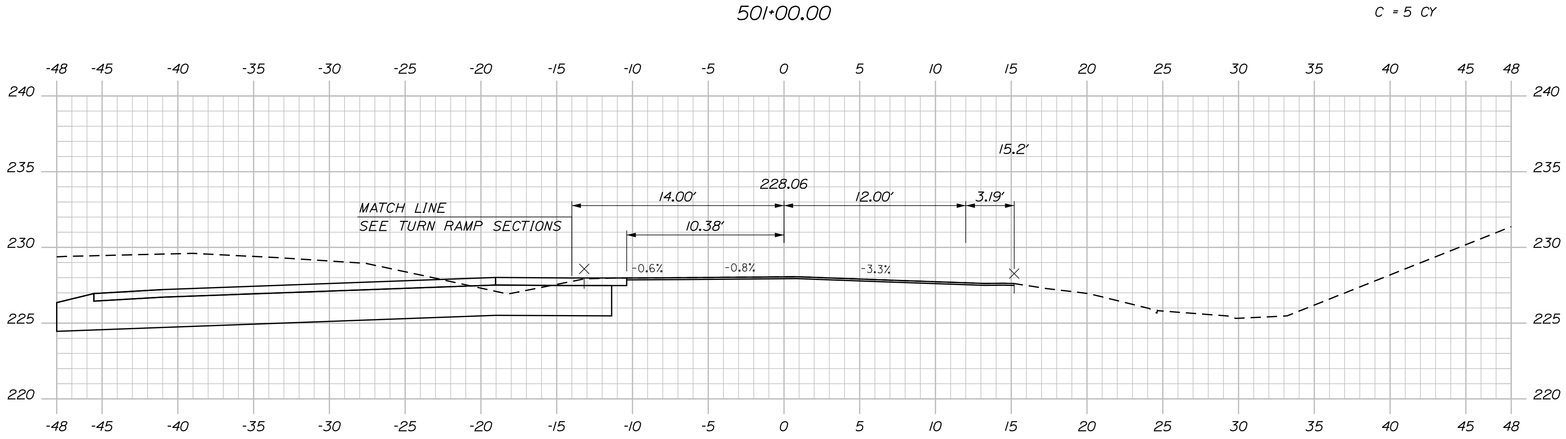
Filename: ...\Z - CAD\00\Highway\Xsect.dgn Division: HIGHWAY Username: mcundiff Date:4/13/2016



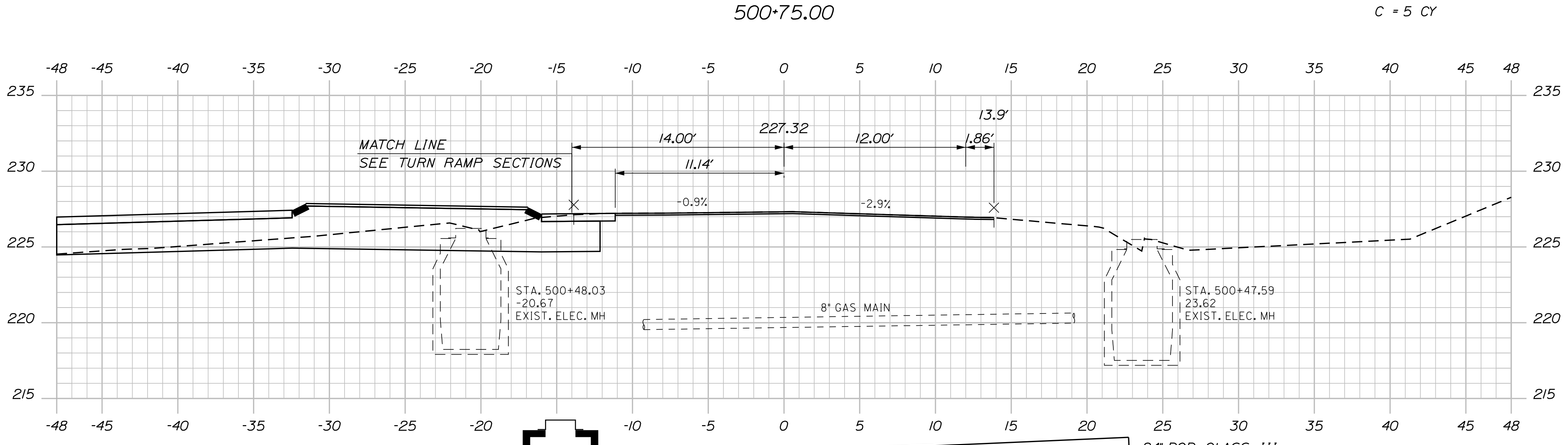
501+25.00

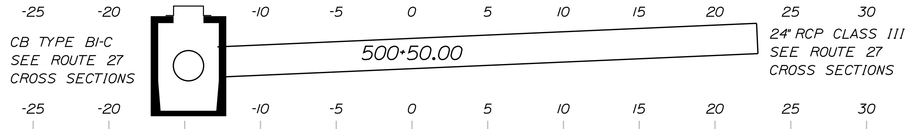


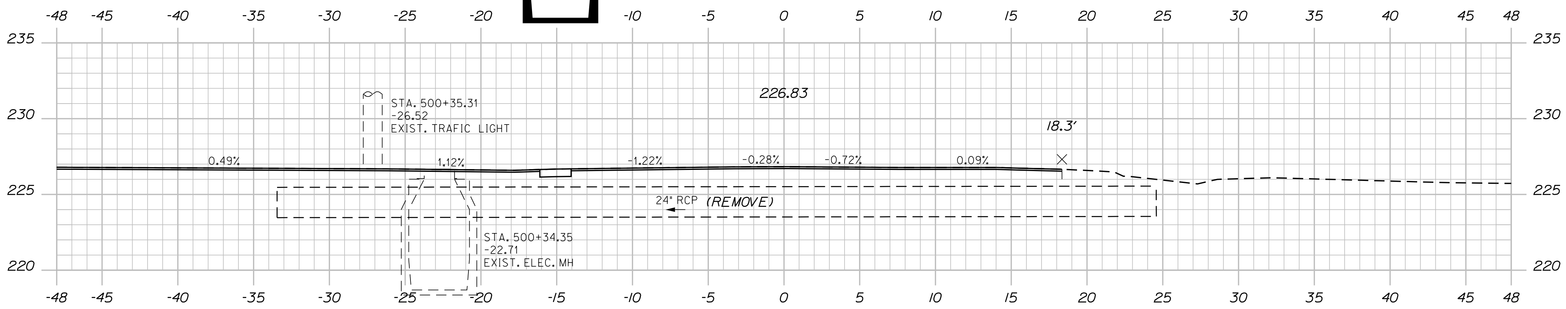
501+00.00



500+75.00







STA. 128+63.00
ROUTE 27/CIVIC CENTER DRIVE ℄ =
STA. 500+00.00
I-95 SOUTHBOUND OFF RAMP ℄

500+25.00

STA. 500+22.03
BEGIN WIDENING, PAVEMENT MILL AND OVERLAY
MATCH EXISTING PAVEMENT

Sta. 500+25.00 to Sta. 501+25.00

SHEET NUMBER 40 OF 50

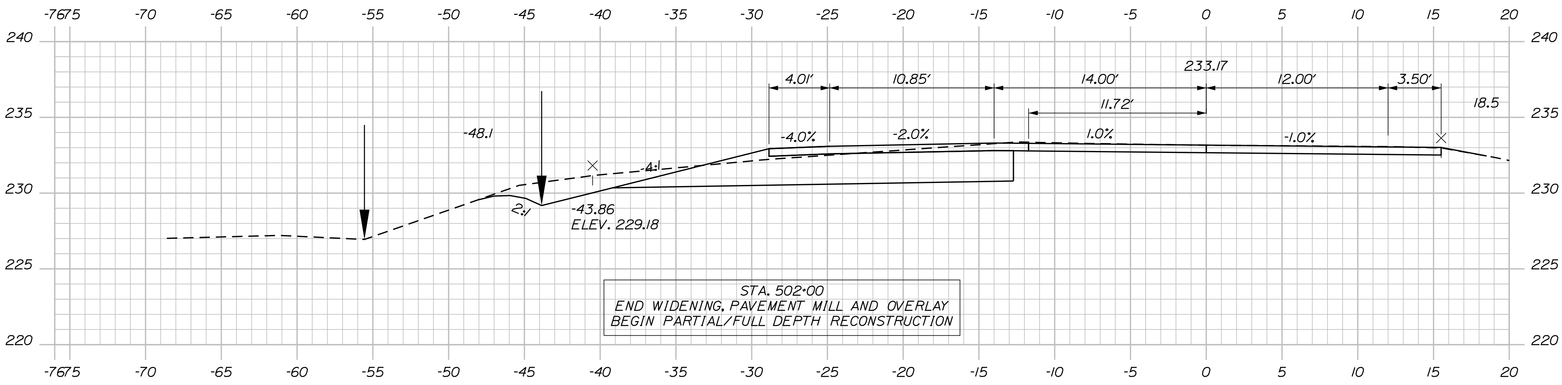
AUGUSTA
ROUTE 27 & DARIN DRIVE
CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

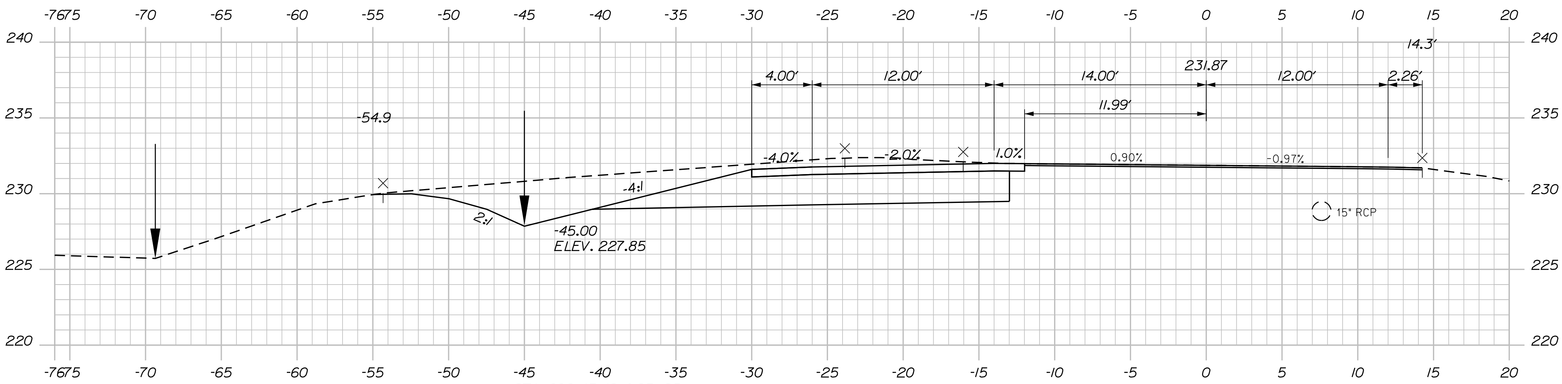
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2056(800)
WIN 20568.00
HIGHWAY PLANS

C = 61 CY



502+00.00

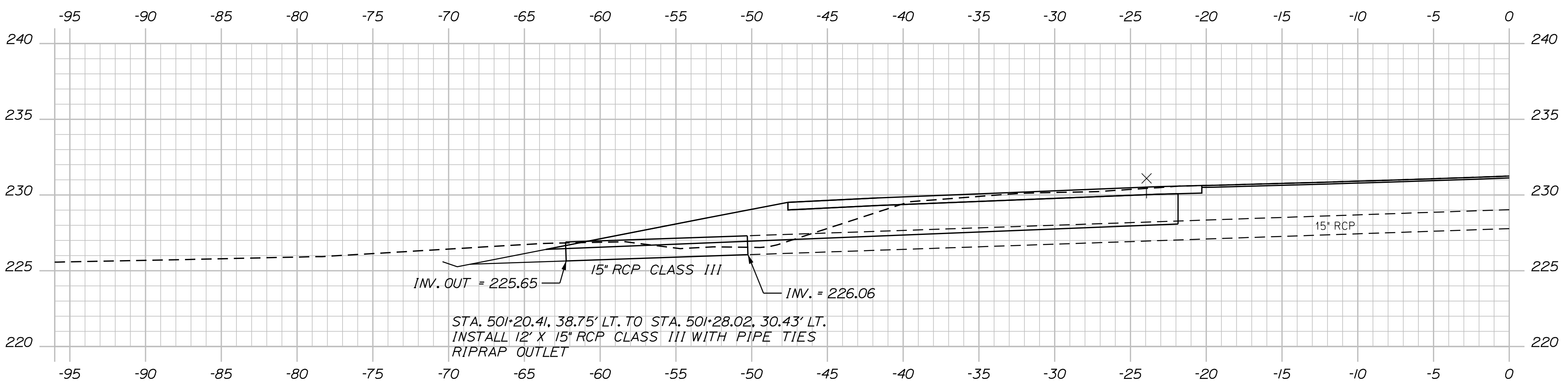
C = 73 CY



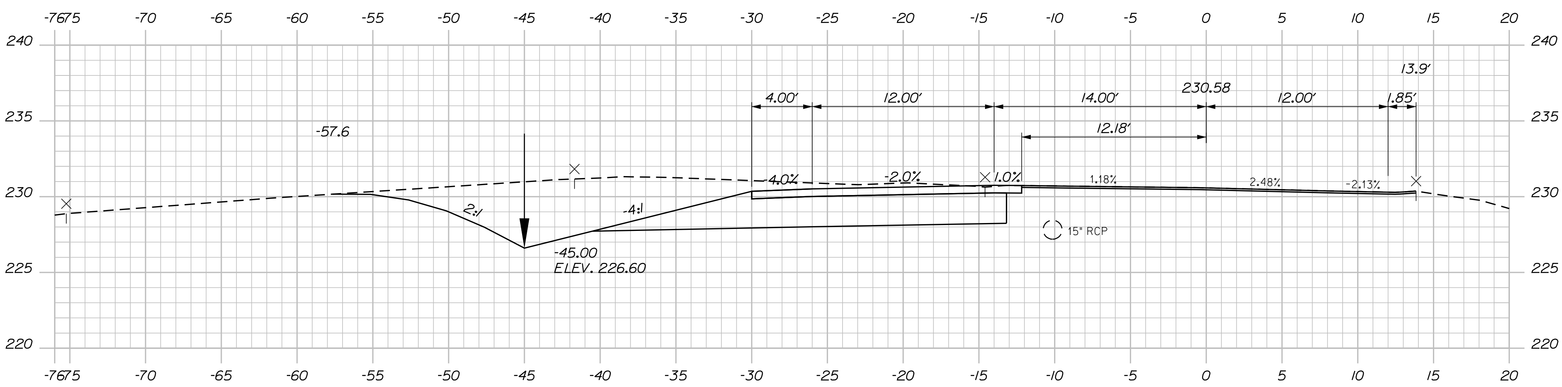
STA. 602+43.49 I-95 SB
OFF RAMP TURN LANE ℄ =
STA. 501+75.00 I-95 SB
OFF RAMP ℄. 26.00' LT.

501+75.00

C = 103 CY



501+63.42 (SKEWED BACK LEFT)



501+50.00

Sta. 501+50.00 to Sta. 502+00.00

SHEET NUMBER 41 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

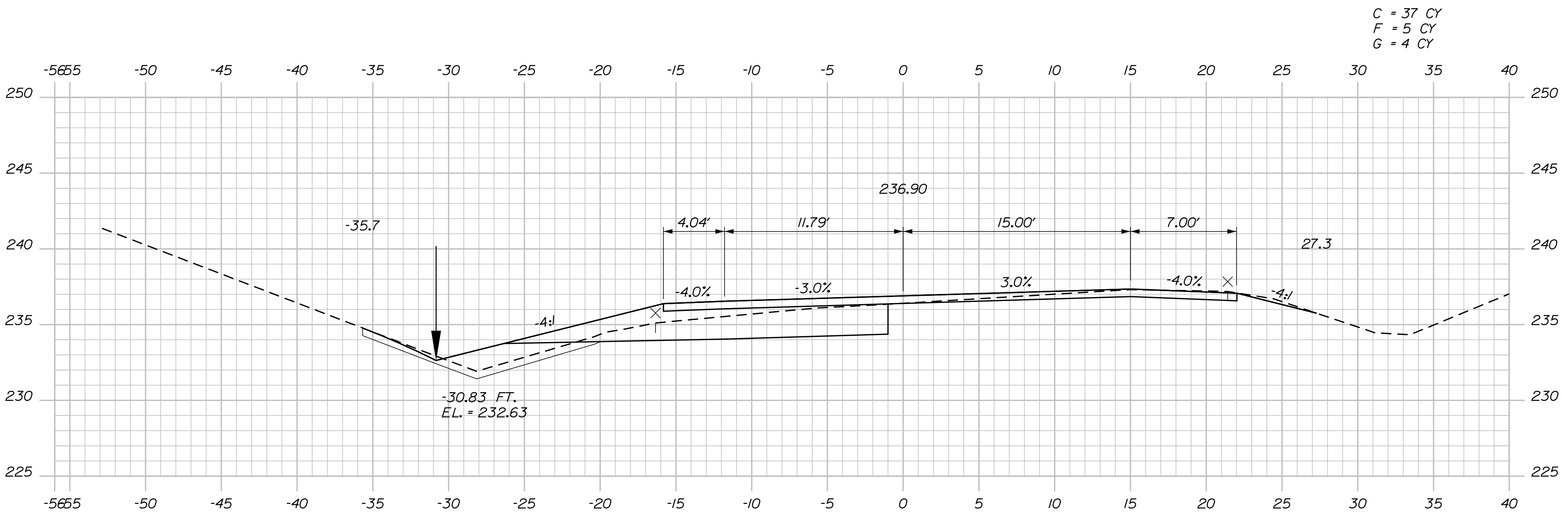
SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

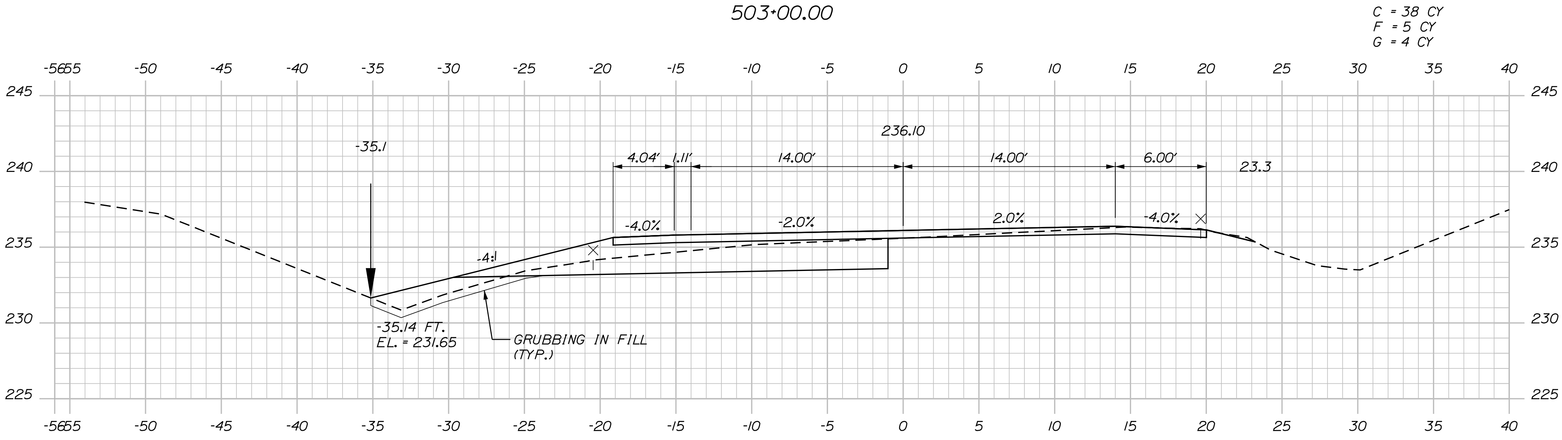
STP-2056(800)

WIN 20568.00

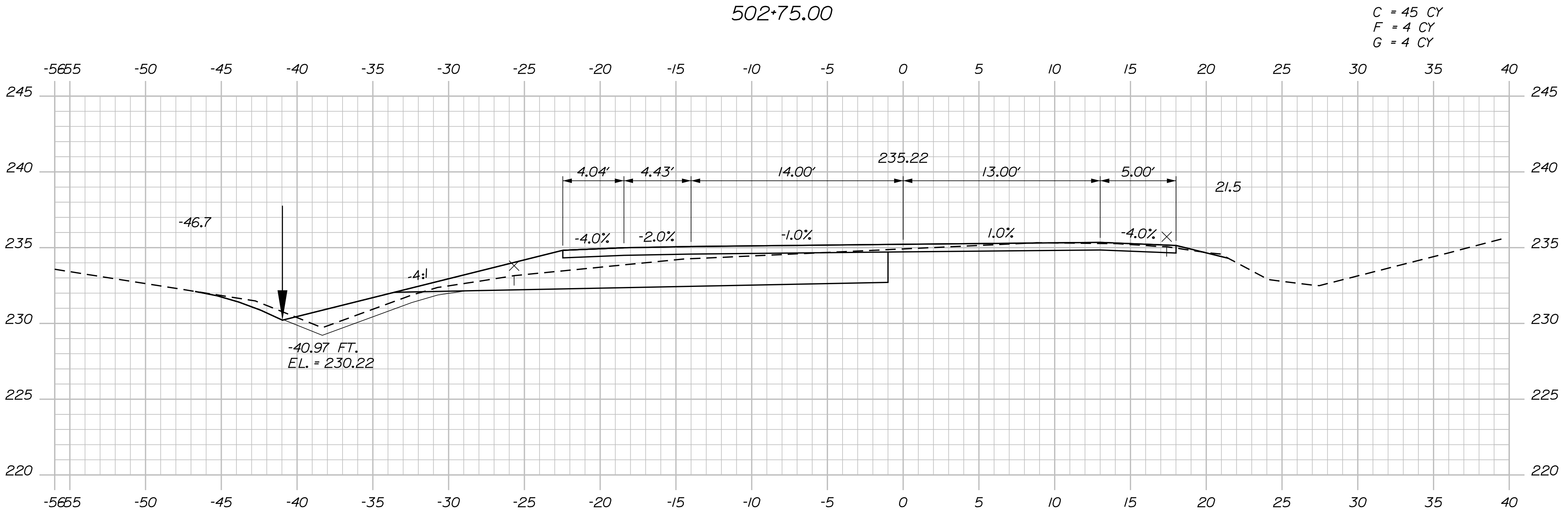
HIGHWAY PLANS



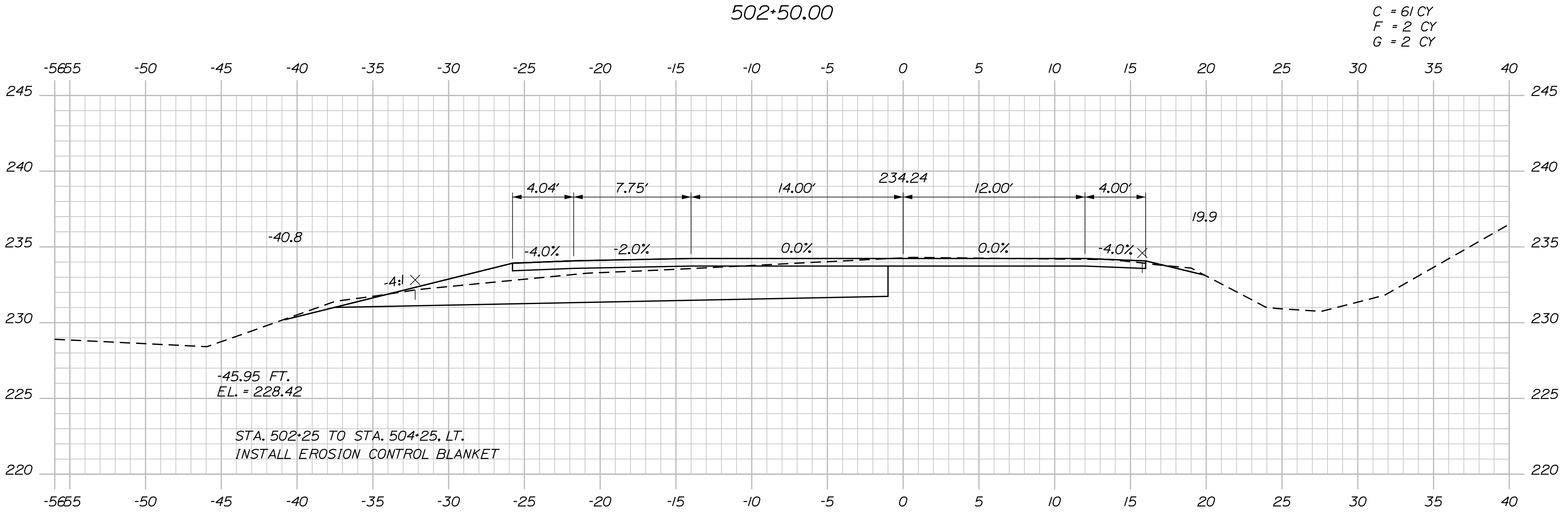
503+00.00



502+75.00



502+50.00



502+25.00

Sta. 502+25.00 to Sta. 503+00.00

SHEET NUMBER 42 OF 50	AUGUSTA ROUTE 27 & DARIN DRIVE	PROJ. MANAGER	B. KEEZER	BY	DATE
		DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
		CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
		DESIGN2-DETAILED2			
		DESIGN3-DETAILED3			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			

CROSS SECTIONS

SIGNATURE

P.E. NUMBER

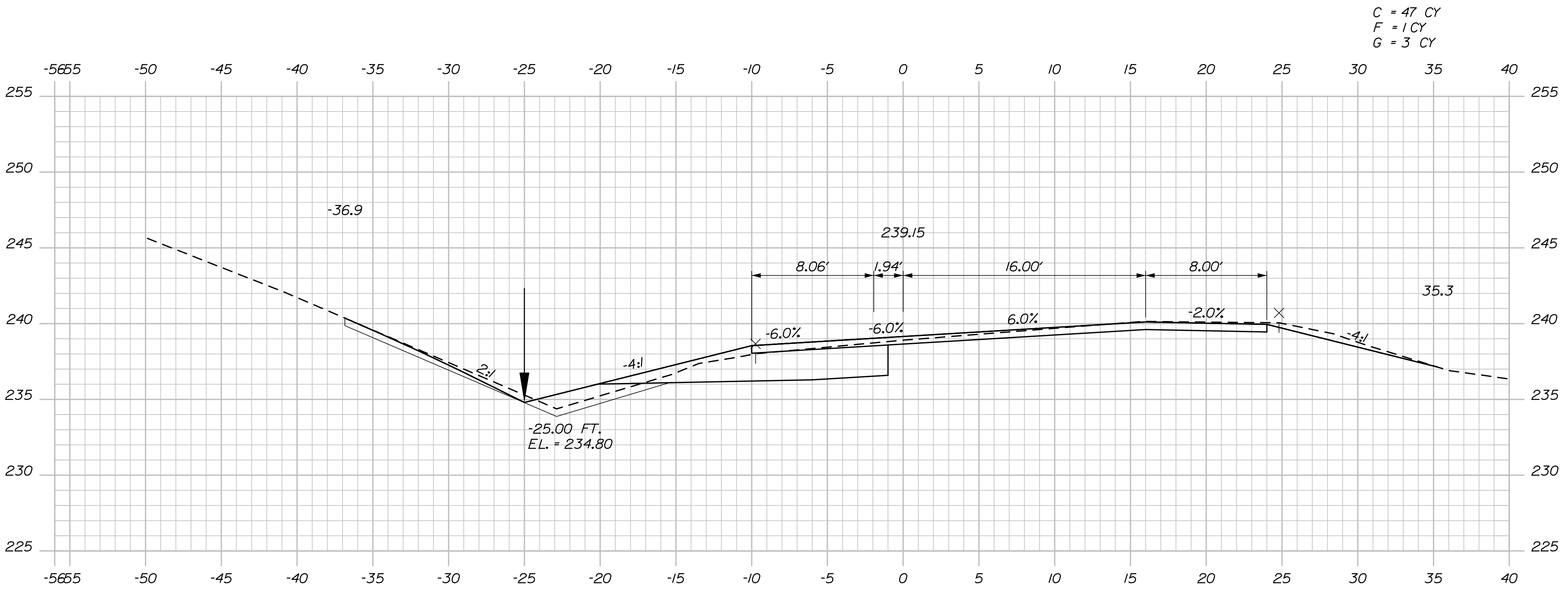
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

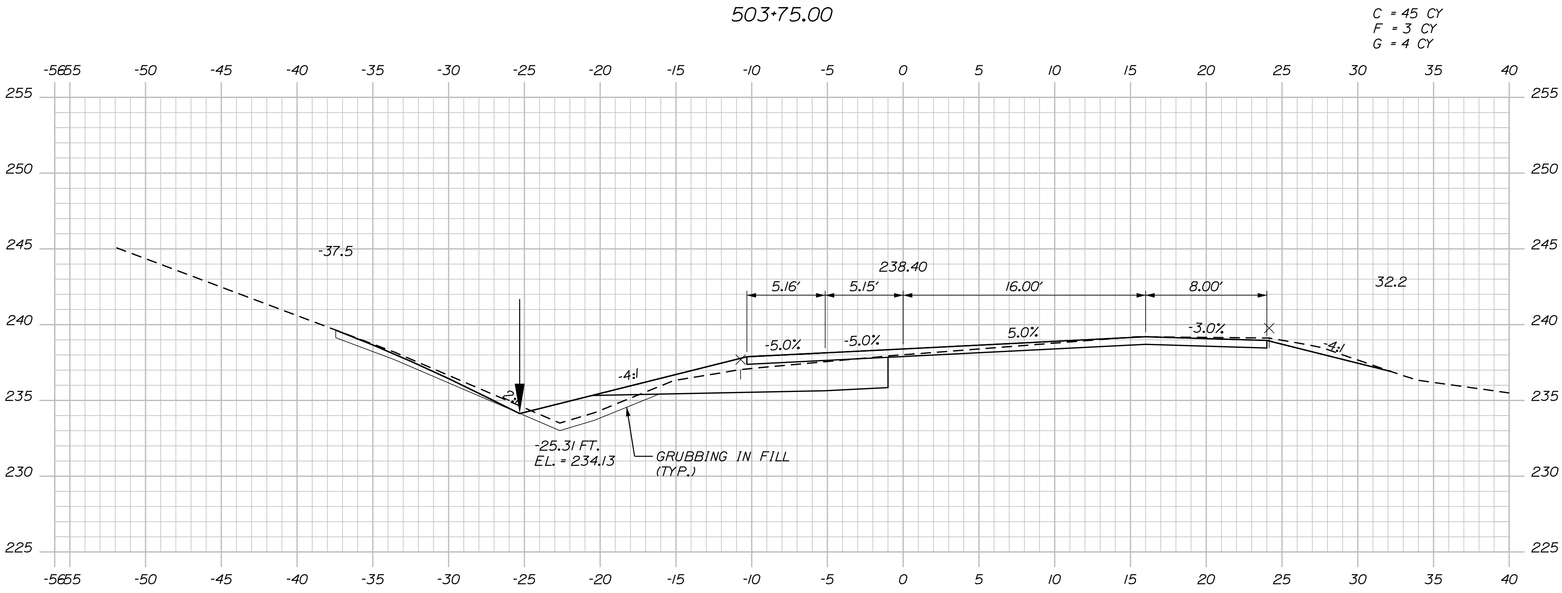
STP-2056(800)

WIN 20568.00

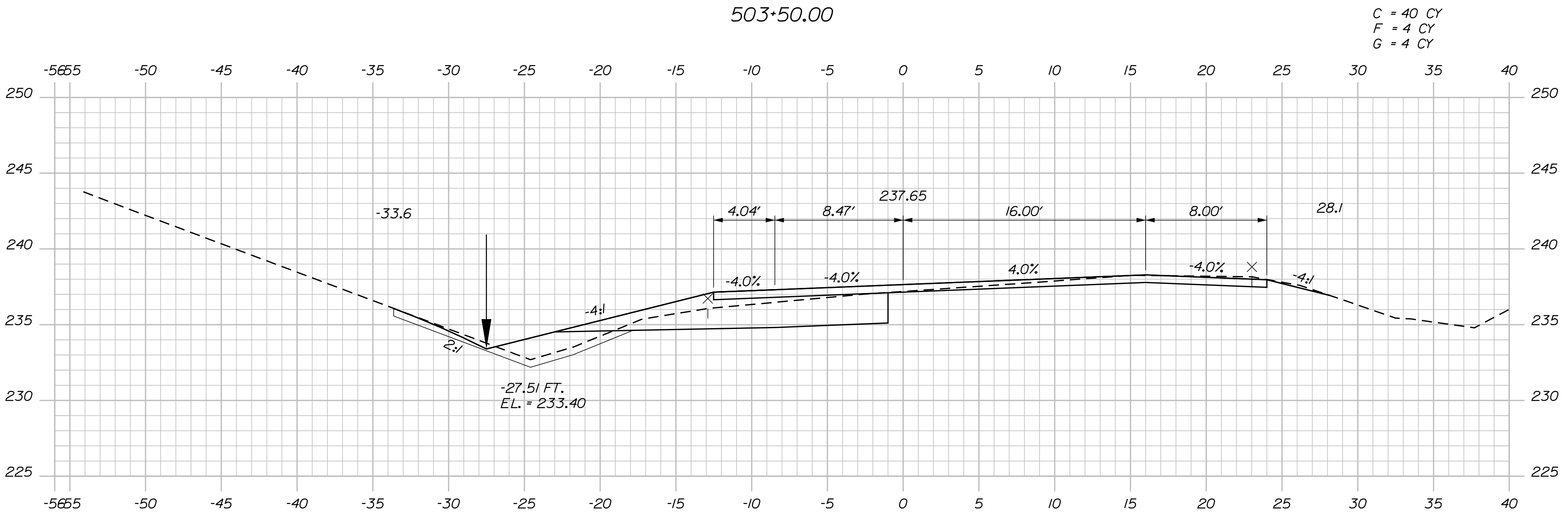
HIGHWAY PLANS



503+75.00



503+50.00



503+25.00

Sta. 503+25.00 to Sta. 503+75.00

SHEET NUMBER 43 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

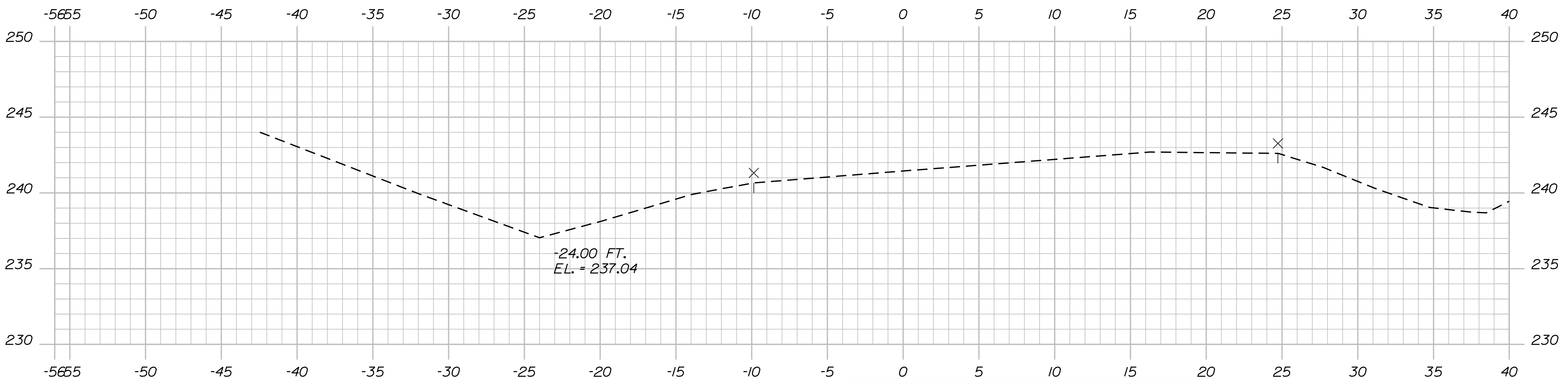
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

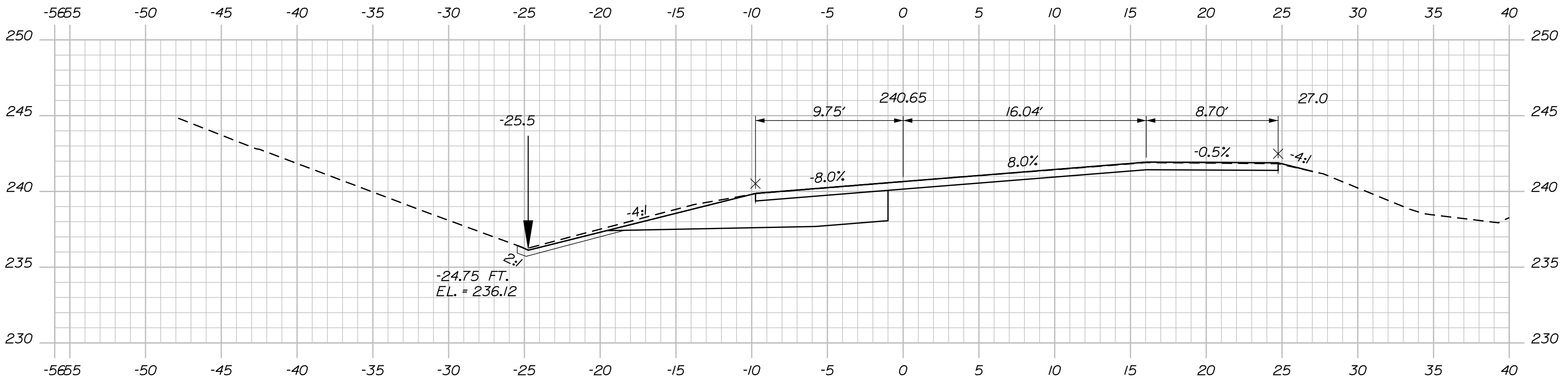
WIN
20568.00

HIGHWAY PLANS



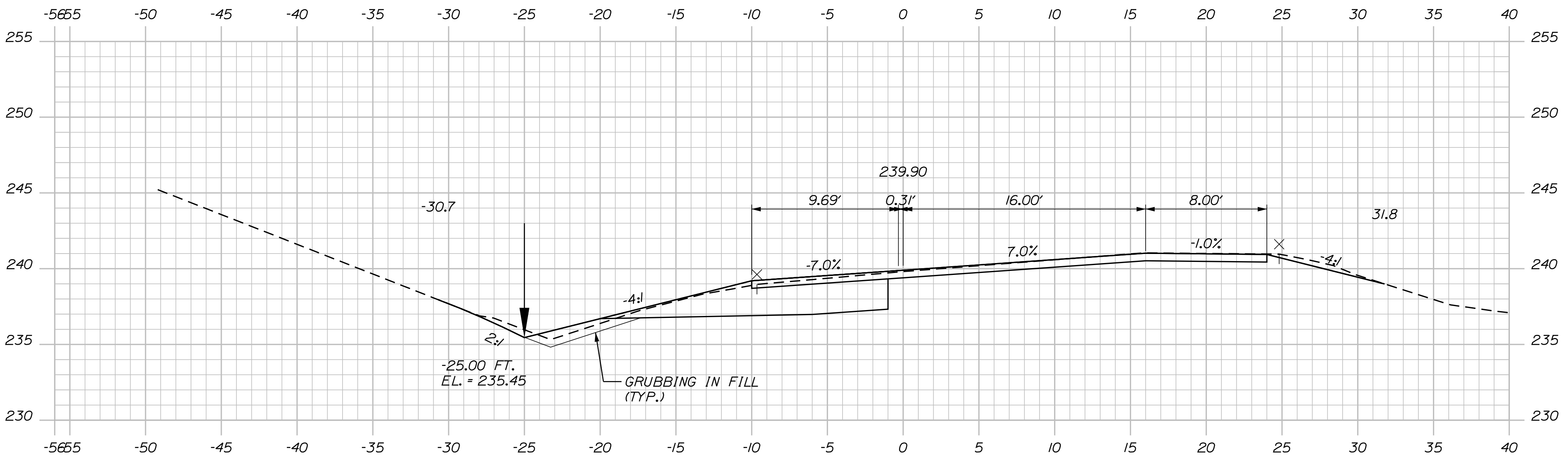
504+50.00

STA. 504+25
END PARTIAL/FULL DEPTH RECONSTRUCTION
MATCH EXISTING PAVEMENT AND STRIPING
LIMIT OF WORK



504+25.00 (BACK)

C = 47 CY
G = 1 CY



504+00.00

Sta. 504+00.00 to Sta. 504+50.00

SHEET NUMBER 44 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

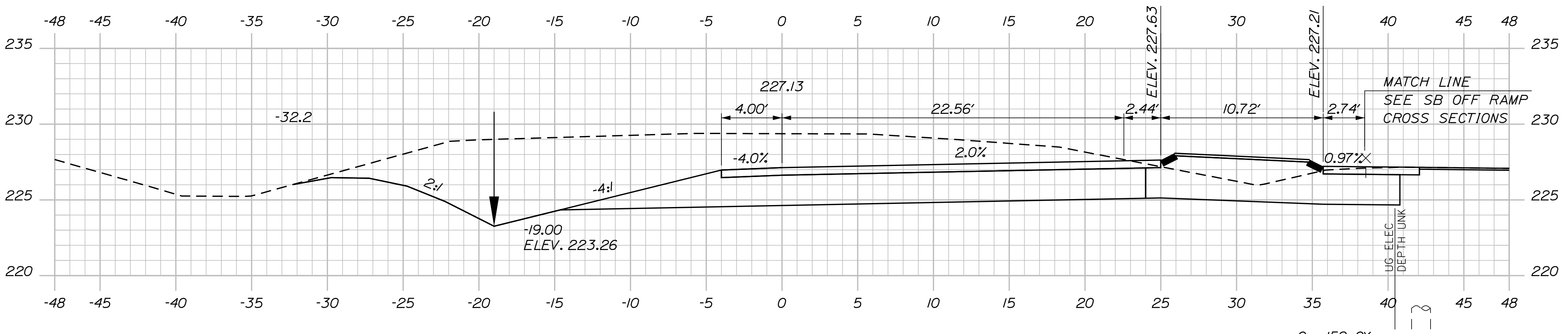
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

HIGHWAY PLANS

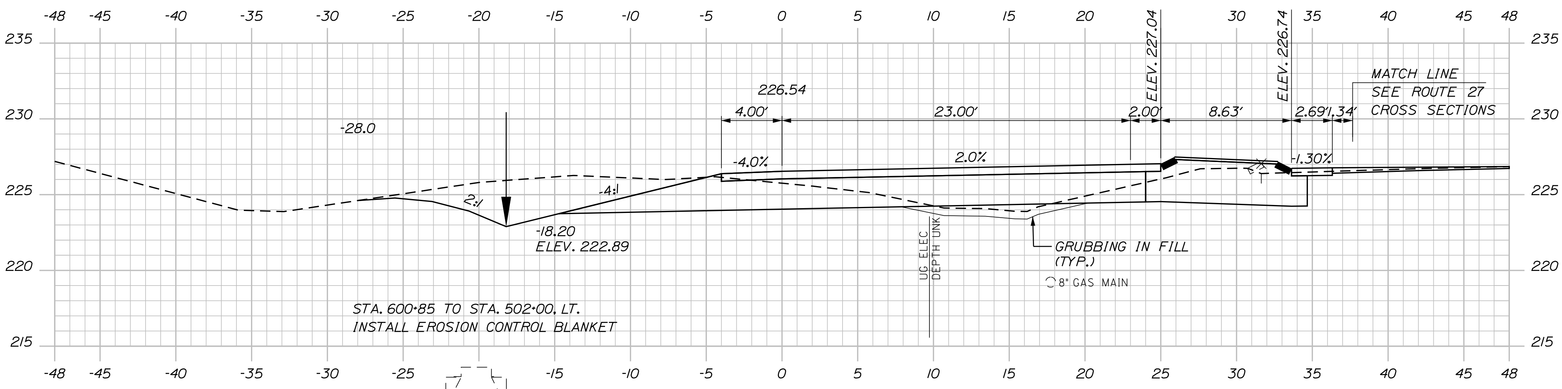
C = 188 CY

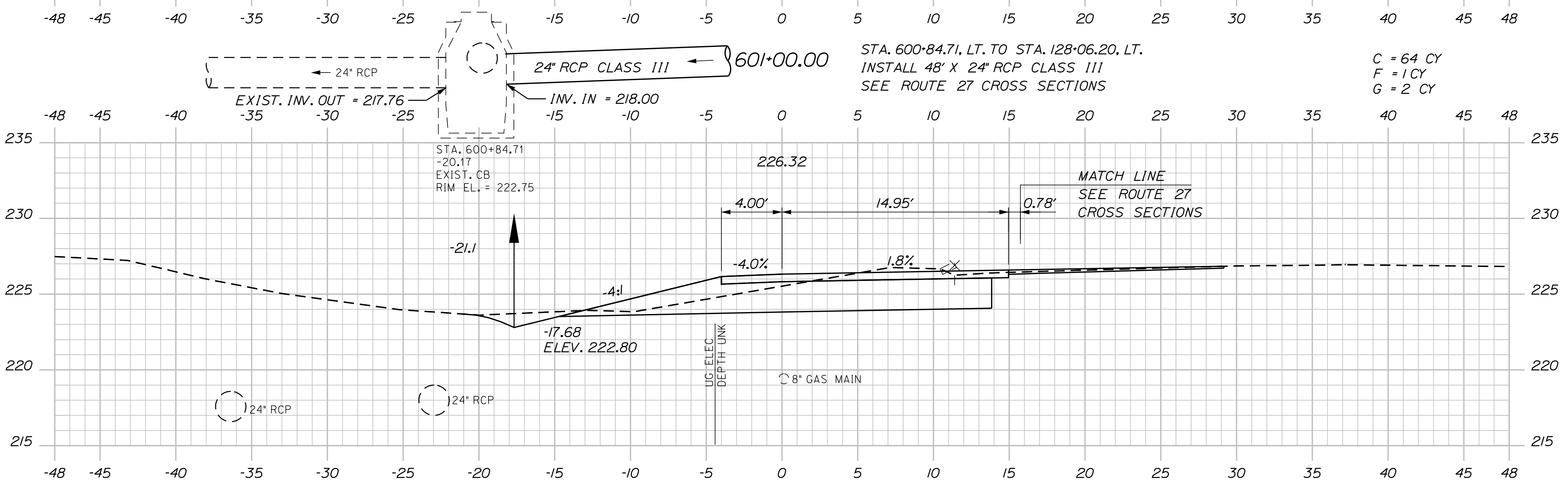


601+25.00

C = 159 CY
F = 1 CY
G = 2 CY

STA. 601+11.42
41.55
EXIST. TRAFIC LIGHT





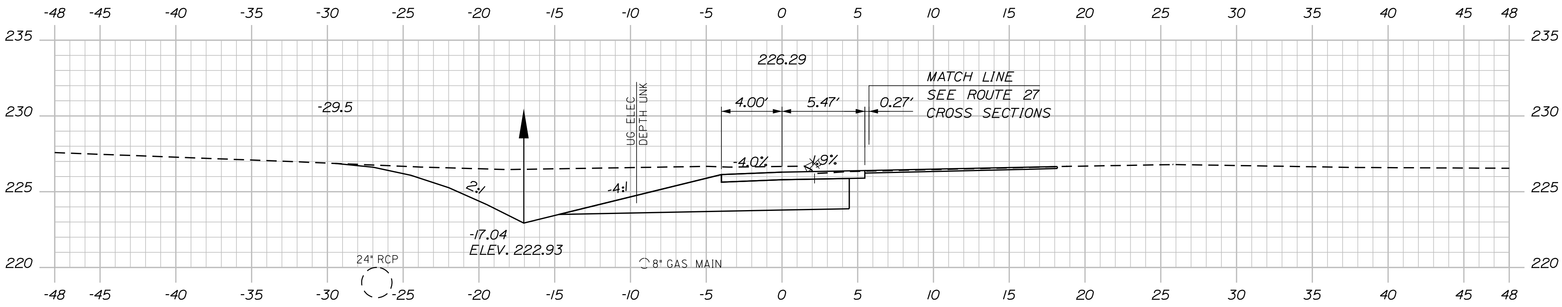
601+00.00

STA. 600+84.71, LT. TO STA. 128+06.20, LT.
INSTALL 48" X 24" RCP CLASS III
SEE ROUTE 27 CROSS SECTIONS

C = 64 CY
F = 1 CY
G = 2 CY

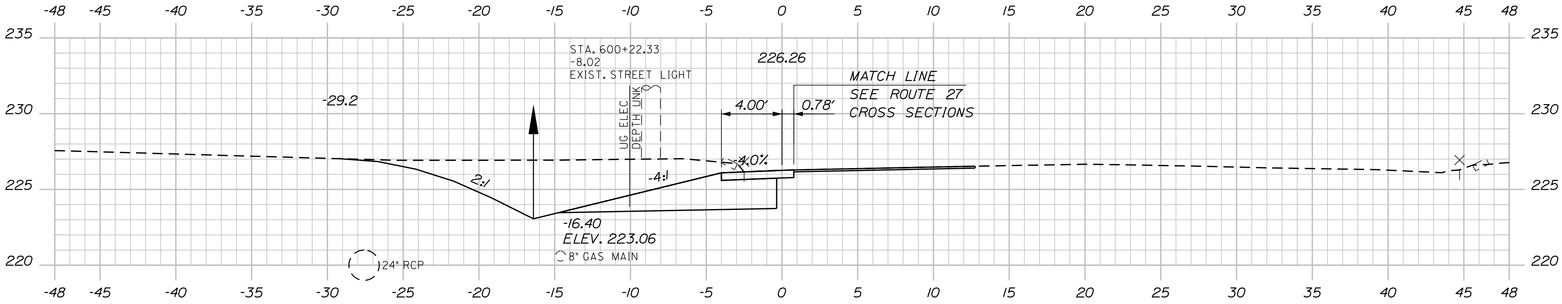
600+75.00

C = 60 CY



600+50.00

C = 73 CY



STA. 600+00.00 I-95 SB
OFF RAMP TURN LANE ℄ =
STA. 126+96.15 ROUTE 27
CIVIC CENTER DRIVE ℄, 18.50' LT.

600+25.00

C = 69 CY

Sta. 600+25.00 to Sta. 601+25.00

SHEET NUMBER 45 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

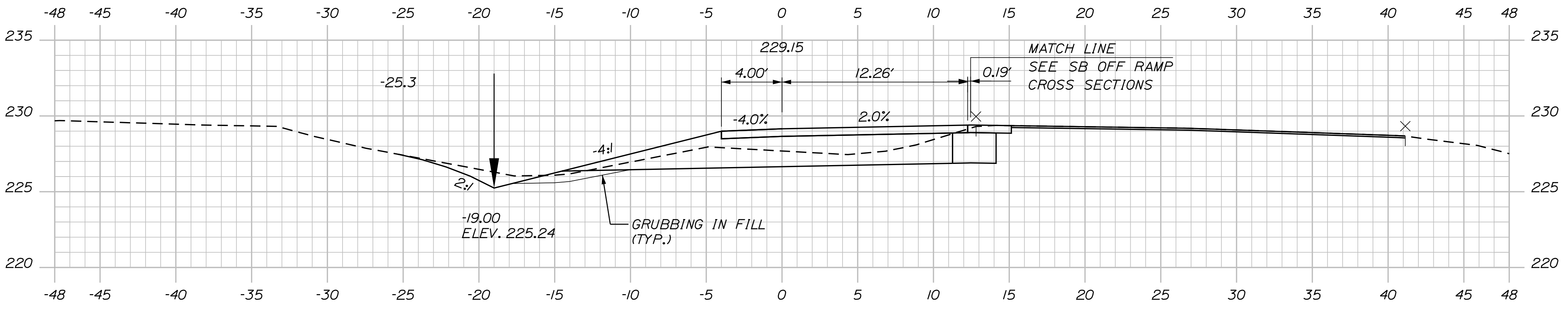
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2056(800)

WIN 20568.00

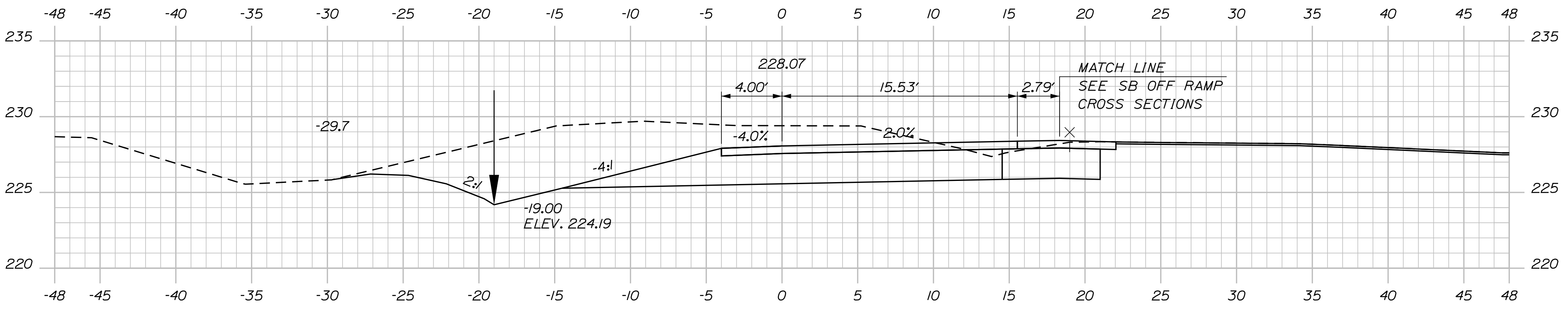
HIGHWAY PLANS

STA. 602+43.49 I-95 SB
OFF RAMP TURN LANE ℄ =
STA. 501+75.00 I-95 SB
OFF RAMP ℄, 26.00' LT.



601+75.00

C = 88 CY
G = 1 CY



601+50.00

Sta. 601+50.00 to Sta. 601+75.00

SHEET NUMBER 46 OF 50

AUGUSTA
ROUTE 27 & DARIN DRIVE

CROSS SECTIONS

PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	B. HAVU	M. CUNDIFF	04\16
CHECKED-REVIEWED	D. ETTINGER	B. HAVU	04\16
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-2056(800)

WIN
20568.00

HIGHWAY PLANS

STATE OF MAINE
DEPARTMENT OF DEFENSE
VETERANS AND EMERGENCY MANAGEMENT
PARCEL NO. (1)
LAND = 8045± S.F.
(EASEMENT FOR HIGHWAY PURPOSES)
TEMP. CONST. RIGHTS = 3000± S.F. (3)
TOTAL AREA = 165± AC. (TAX MAP)
REM. AREA = 164.82± AC.

CURVE DATA #1
PI = 114+02.13
D = 0°59'16.3"
Δ = 7°55'55.9" Lt.
R = 5800.00'
L = 802.97'
T = 402.13'
E = 13.92'

PLAN OF LOTS ON PROPERTY OF
FRED GABOURIE AND BEATRICE GABOURIE
BY HENRY F. HILL, JR. C.E.
DATED JUNE 1956
RECORDED KENNEBEC COUNTY REGISTRY OF DEEDS
PLAN BOOK 20, PAGE 30

GERALD DUPLESSIS

CARL VANDER PUTTEN

KENNEBEC SAVINGS BANK

SS REALTY, LLC

PLAN OF THE AUGUSTA BUSINESS PARK
BY O.G. COULLING, CITY ENG.
DATED JULY 1977
RECORDED KENNEBEC COUNTY REGISTRY OF DEEDS
PLAN BOOK E-78, PAGE 63

GGG ASSOCIATES LLC
PARCEL NO. (2)
LAND TAKEN = 45± S.F. (PRESC. EASE.)
LAND TAKEN = 415± S.F.(OTHER)
TOTAL LAND TAKEN = 460± S.F.
TOTAL AREA = 1.11± AC. (DEED)
REM. AREA = 1.10± AC.

STATE HIGHWAY "32"
SEE S.H.C. FILE NO. 6-59 (1953)
ROUTE 8,11+27
CIVIC CENTER DRIVE
TO BELGRADE
BEGIN B.L.
702.97'
111+00 112+00 113+00 114+00 115+00 116+00 117+00
STA. 301+36.79 JOINT FORCE
STA. 800+00.00 COMFORT IN
STA. 118+80.22
ROUTE 27/CIVIC CENTER
STA. 202+49.21 DARIN DRI
STA. 299+71.34 JOINT FOR
HEADQUARTERS
PCC = STA. 118+02.97
TEMPORARY CONSTRUCTION LIMITS
725± S.F.
DARIN DRIVE
KFC TACO BELL
BLDG.
ADVANCE AUTO PARTS
NAD 1983 MAINE 2000 WEST ZONE
GRID

R/W REFERENCE

CIVIC CENTER DRIVE
SEE S.H.C. FILE NO. 6-59 (1953)
SEE S.H.C. FILE NO. 6-87 (1957)

DARIN DRIVE
CITY OF AUGUSTA
K.C.R.D. VOL. 1689, PAGE 136
1973
FROM CIVIC CENTER DRIVE WESTERLY
66' WIDE

NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION (L.O.W.P.)

WIN 020568.00

SYMBOLS
- IP or IPF (IRON PIPE or PIN FOUND)
- ST. (SEPTIC TANK)
- &BM (TRAVERSE POINT)
- (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	D.W.B.	
PROP. LINES	D.W.B.	
AREAS	D.W.B.	D.W.B.

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

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

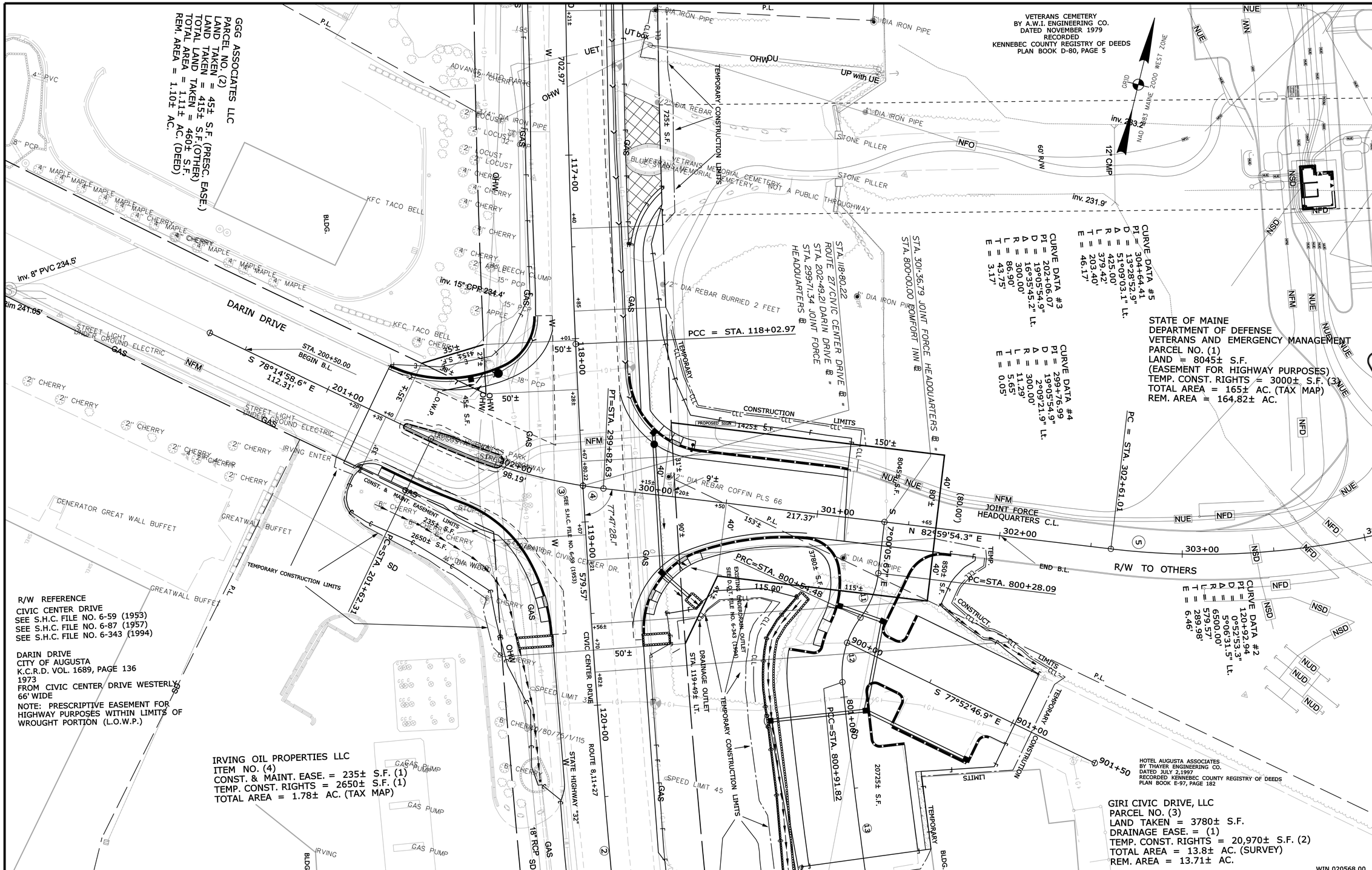
DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "32"
ROUTE 8, ROUTE 11, ROUTE 27/ CIVIC CENTER DRIVE
AUGUSTA KENNEBEC COUNTY
FEDERAL AID PROJECT NO. STP-2056(800)

DECEMBER 2015	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-461
SCALE 1" = 25'	SHEET 1 OF 4	

SHEET NUMBER
47
OF 50

Filename: ...\00\row\msta\001_RWPLAN1.dgn Division: ROW Username: Don.Burns Date:4/6/2016



SYMBOLS

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

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

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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

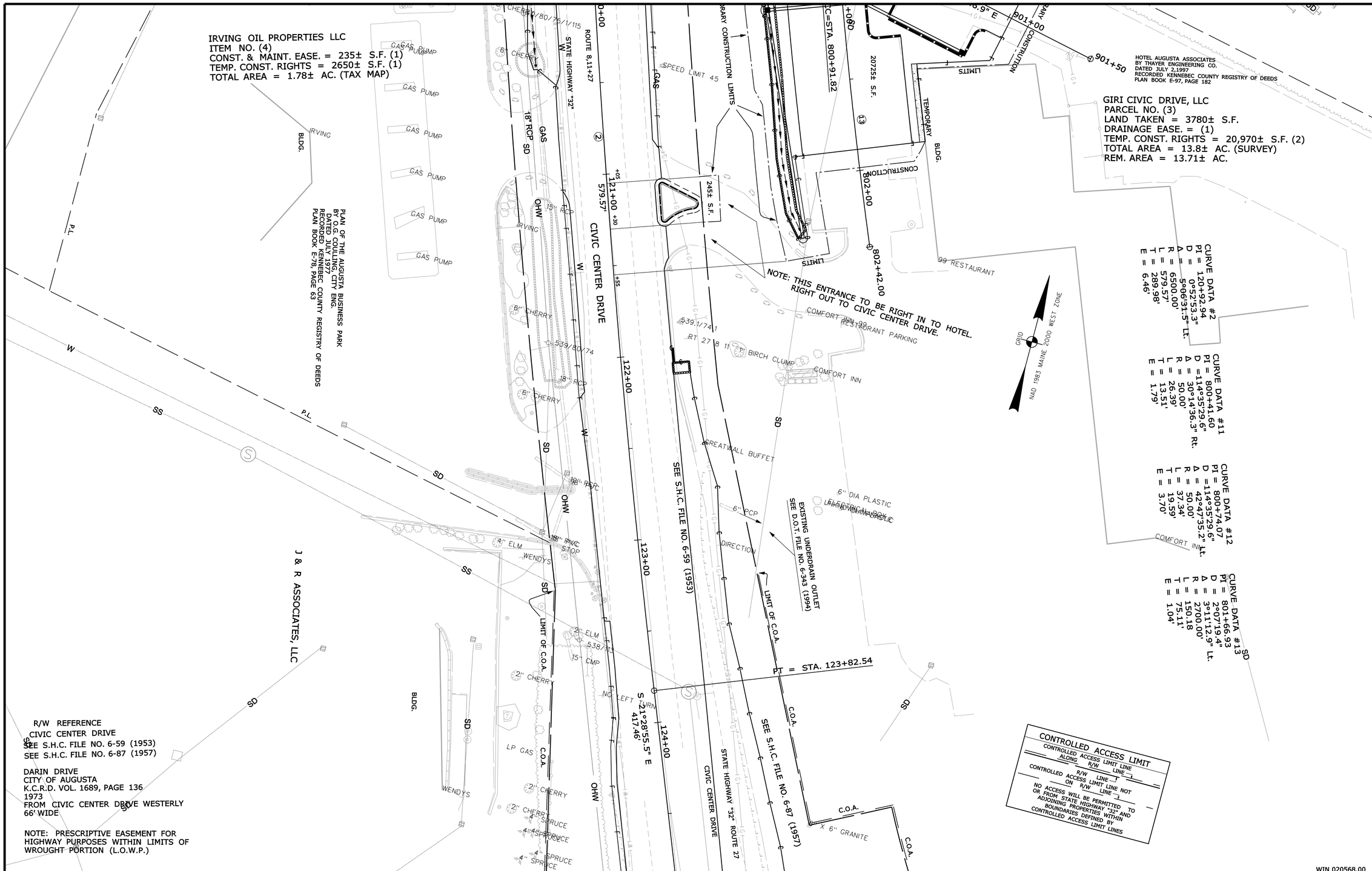
DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "32"
ROUTE 8, ROUTE 11, ROUTE 27/ CIVIC CENTER DRIVE
AUGUSTA KENNEBEC COUNTY
FEDERAL AID PROJECT NO. STP-2056(800)

DECEMBER 2015	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-461
SCALE 1" = 25'	SHEET 2 OF 4	

SHEET NUMBER
48
OF 50

Filename: ...\00\row\msto\002_RWPLAN2.dgn Division: ROW Username: Don.Burns Date:4/6/2016



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SYMBOLS

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

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

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

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

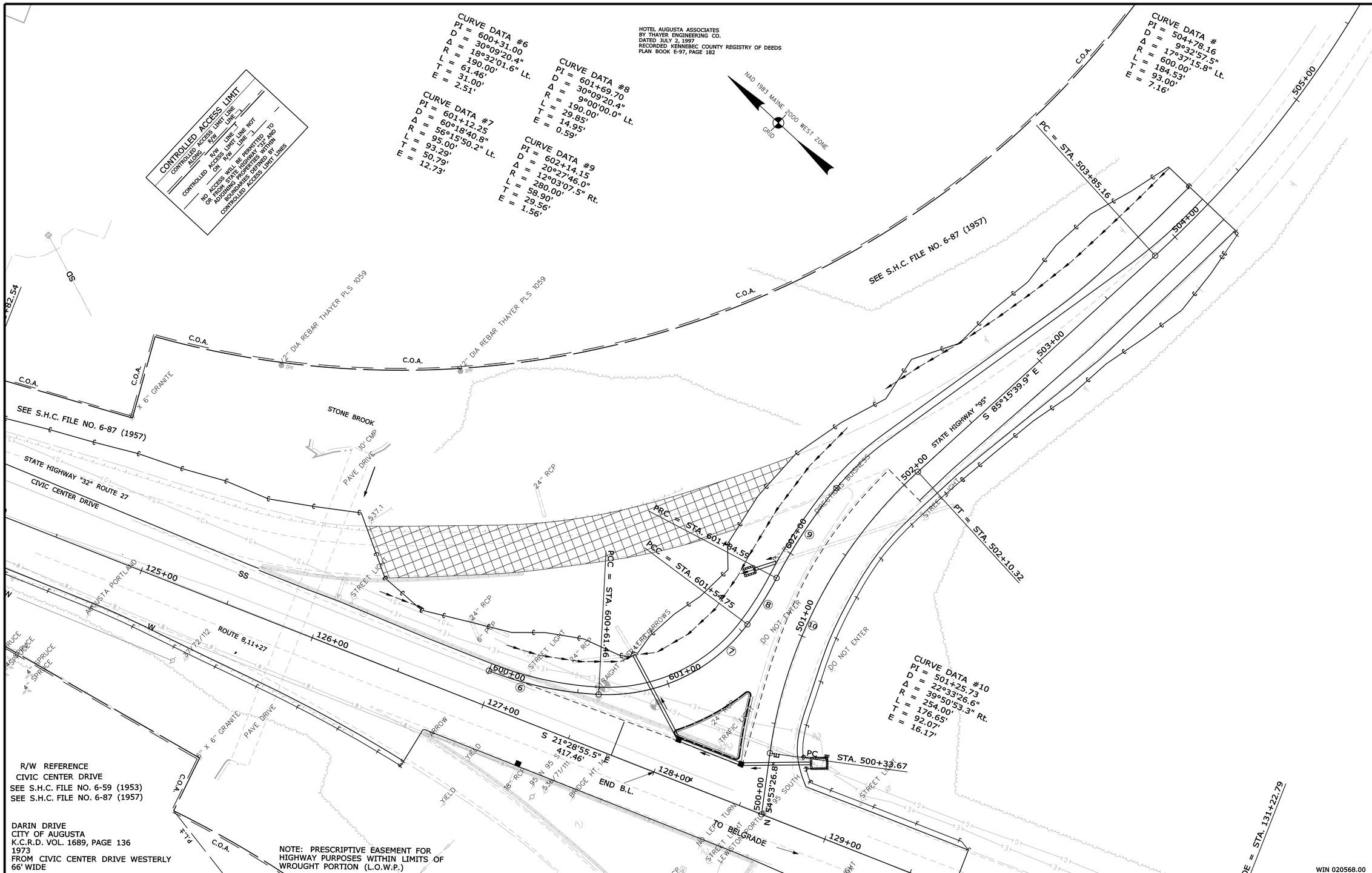
DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "32"
ROUTE 8, ROUTE 11, ROUTE 27/ CIVIC CENTER DRIVE
AUGUSTA KENNEBEC COUNTY
FEDERAL AID PROJECT NO. STP-2056(800)

DECEMBER 2015	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-461
SCALE 1" = 25'	SHEET 3 OF 4	

SHEET NUMBER
49
OF 50

Filename: ...\00\row\msta\004_RWPLAN4.dgn Division: ROW Username: Dan.Burns Date:4/6/2016



SYMBOLS

- IP or IPF (IRON PIPE or PIN FOUND)
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- LIMITS OF WROUGHT PORTION (L.O.W.P.)
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ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	D.W.B.	
PROP. LINES	D.W.B.	
AREAS	D.W.B.	D.W.B.

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
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DATE

STATE HIGHWAY "32"
ROUTE 8, ROUTE 11, ROUTE 27/ CIVIC CENTER DRIVE
AUGUSTA KENNEBEC COUNTY
FEDERAL AID PROJECT NO. STP-2056(800)

DECEMBER 2015	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-461
SCALE 1" = 25'	SHEET 4 OF 4	

SHEET NUMBER
50
OF 50