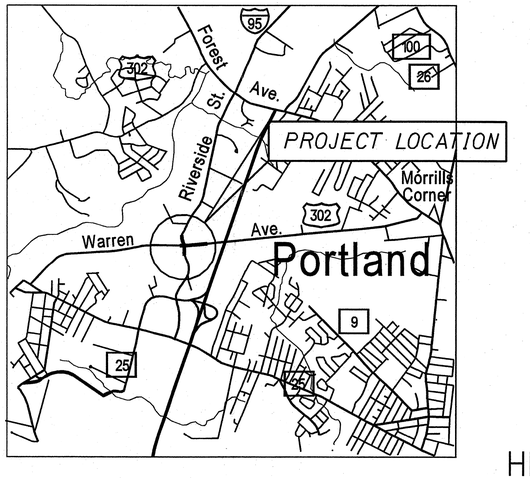
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



LOCATION MAP

1 0 1 2

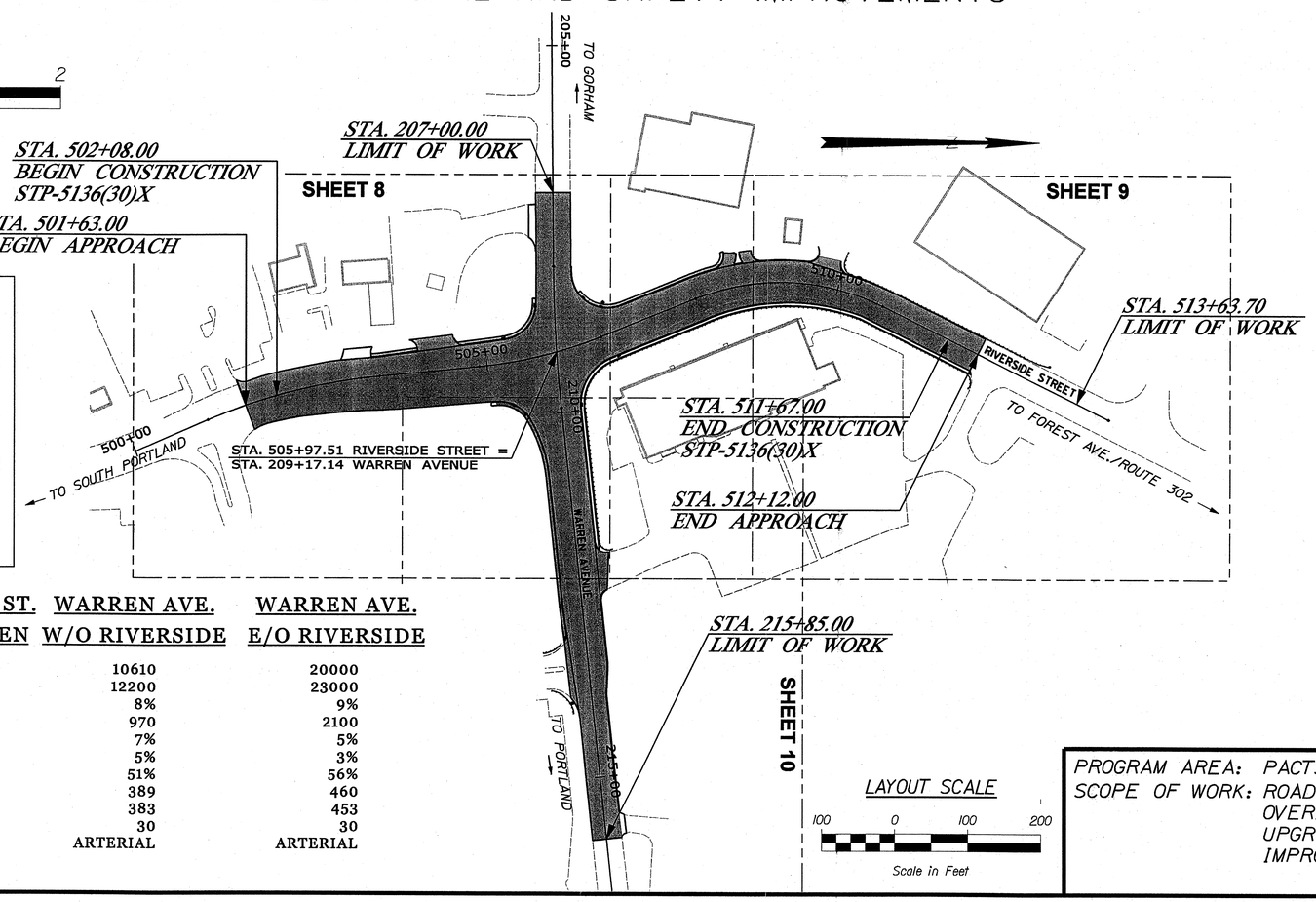
Scale in Miles

PORTLAND
CUMBERLAND COUNTY
WARREN AVE.\RIVERSIDE ST.
STP-5136(30)X
PROJECT LENGTH : 0.357 MILES
HIGHWAY OPERATIONAL AND SAFETY IMPROVEMENTS

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2-4
Estimated Quantities	5
Drainage Sheet	6
General Notes	7
Grading Plan	8
Plan	9-11
Profile	12-15
Retaining Wall Profile	16
Geometric Curb Layout	17-19
Pavement Marking & Signing	20-22
Signal Plan	23-24
Cross Sections	25-42
Right of Way Map	43-45

ROADWAY PLANS PREPARED BY:
VHB Vanasse Hangen Brustlin, Inc.



PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert Proposed
Curbing — Existing — Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees — Conifer — Deciduous
Tree Line
Clearing Limit Line
Centerline-Existing
Centerline-Proposed
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins — Existing — Proposed
Manholes — Existing — Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utility Poles — Existing — Proposed
Fire Hydrants — Existing — Proposed
Existing Water Line
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

TRAFFIC DATA	RIVERSIDE ST. S/O WARREN	RIVERSIDE ST. N/O WARREN	WARREN AVE. W/O RIVERSIDE	WARREN AVE. E/O RIVERSIDE
Current (2010) AADT	29830	19360	10610	20000
Future (2020) AADT	34400	22300	12200	23000
DHV - % of AADT	8%	8%	8%	9%
Design Hour Volume	2890	2010	970	2100
% Heavy Trucks (AADT)	8%	8%	7%	5%
% Heavy Trucks (DHV)	4%	3%	5%	3%
Directional Distribution (DHV)	50%	56%	51%	56%
18 kip Equivalent P 2.0. (2006)	1135	708	389	460
18 kip Equivalent P 2.5. (2006(	1118	697	383	453
Design Speed (mph)	30	30	30	30
Functional Class:	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL

LAYOUT SCALE

100 0 100 200

Scale in Feet

PROGRAM AREA: PACTS
SCOPE OF WORK: ROADWAY WIDENING, PAVEMENT OVERLAY, MINOR DRAINAGE UPGRADE & SIGNAL EQUIPMENT IMPROVEMENTS

STP-5136(30)X

PIN 5136.30

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED	DATE
COMMISSIONER:	3/9/11
CHIEF ENGINEER:	3/8/11

STATE OF MAINE — ANTHONY GRANDE No. 12023 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE	
P.E. NUMBER	12023
DATE	1/10/2011

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	S.S/A.G.
DESIGNER	L.C.G.
CONSULTANT	VHB
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

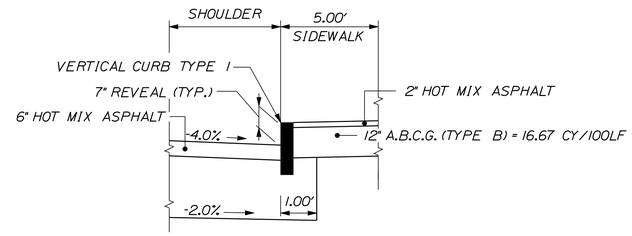
PORTLAND
WARREN AVE.\RIVERSIDE ST.

TITLE SHEET

SHEET NUMBER
1
OF 45

Filename: ...\cad\te\planset\001_Title.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

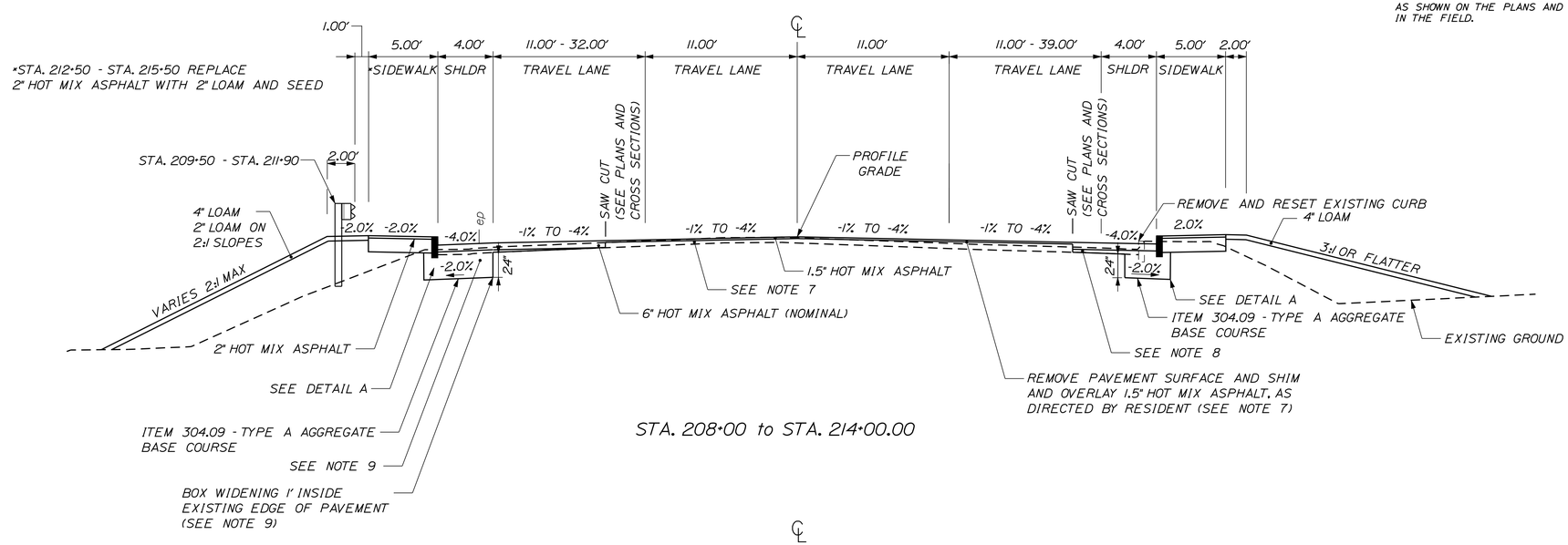
DETAIL A



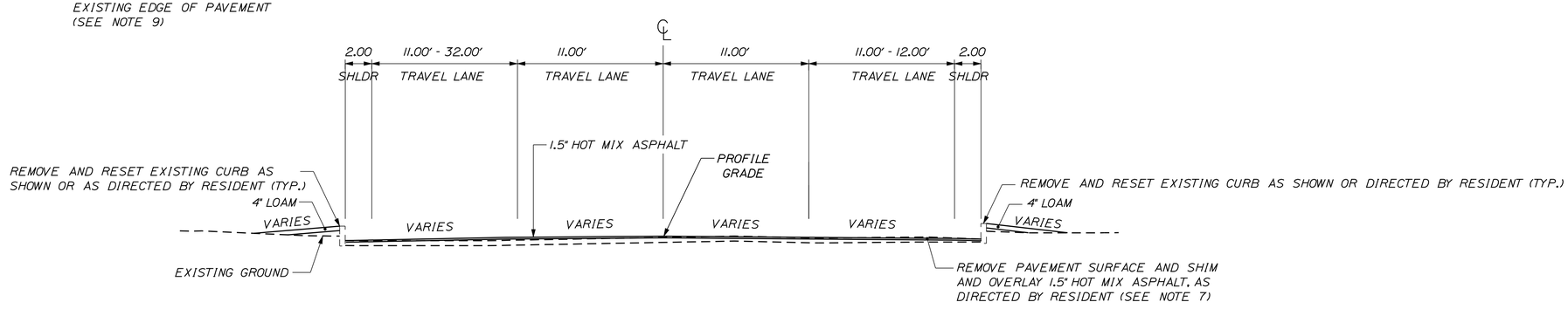
VERTICAL CURB TYPE I INSTALLATION
SEE MAINEDOT STANDARD DETAIL 609(07)

NOTE:

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. 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. IN EXISTING PAVEMENT AREAS GRIND AT HIGH SPOTS AND SHIM WITH ITEM 403.211 TO FILL EXISTING WHEEL RUTS, AS DIRECTED BY RESIDENT. ALSO USE ITEM 403.211 TO MATCH PROPOSED PROFILE GRADE.
8. SEE PLAN AND CROSS SECTIONS FOR FULL DEPTH PAVEMENT AREAS. IN THESE AREAS REMOVE EXISTING PAVEMENT AND SHIM WITH ITEM 304.09 TYPE A, AS DIRECTED BY RESIDENT.
9. SEE PLANS AND CROSS SECTIONS FOR WIDENED AREAS OR AS DIRECTED BY RESIDENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CONSTRUCTION CENTERLINE PROFILE AND THE REQUIRED MILLING AND OR SHIM REQUIRED TO RROVIDE THE CENTERLINE PROFILE AND CROSS SLOPES, BASED ON THE PROPOSED CENTERLINE GRADES AND GUTTER GRADES. ALL WORK SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE RESIDENT IN THE FIELD.



STA. 208+00 to STA. 214+00.00



STA. 207+00.00 TO STA. 208+00.00
STA. 214+00.00 TO STA. 215+85.00

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.\A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS: 1	---	---	---
REVISIONS: 2	---	---	---
REVISIONS: 3	---	---	---
REVISIONS: 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE
P.E. NUMBER
DATE

PORTLAND
WARREN AVE.

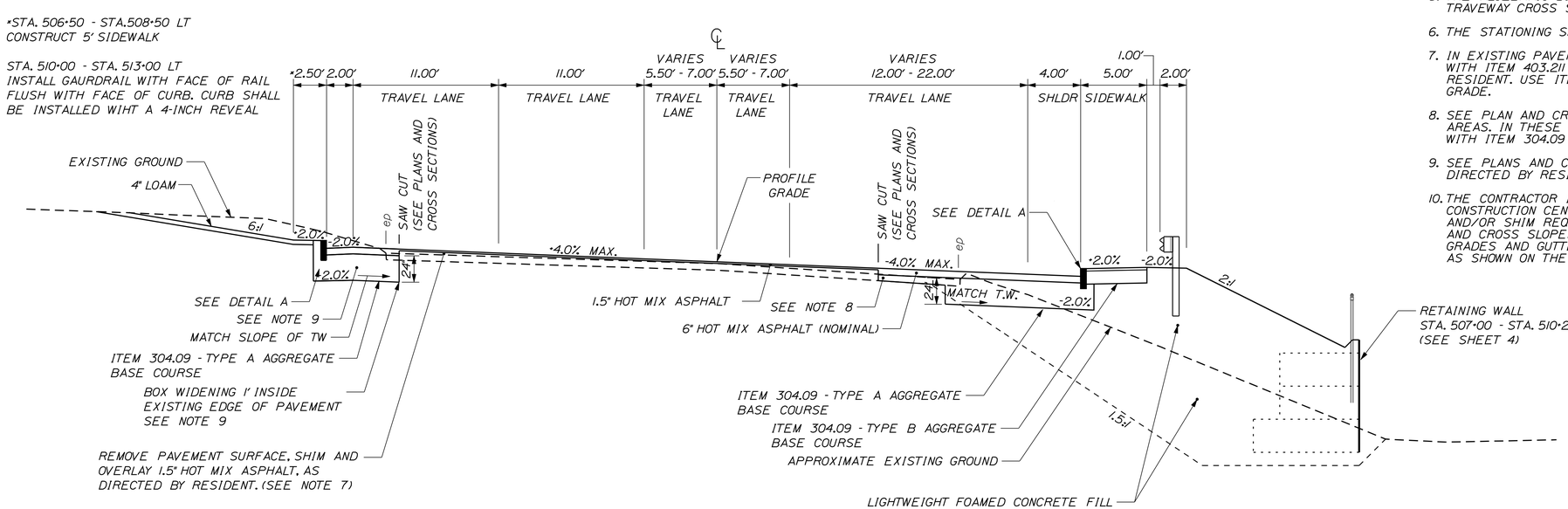
TYPICAL SECTIONS

SHEET NUMBER
2
OF 45

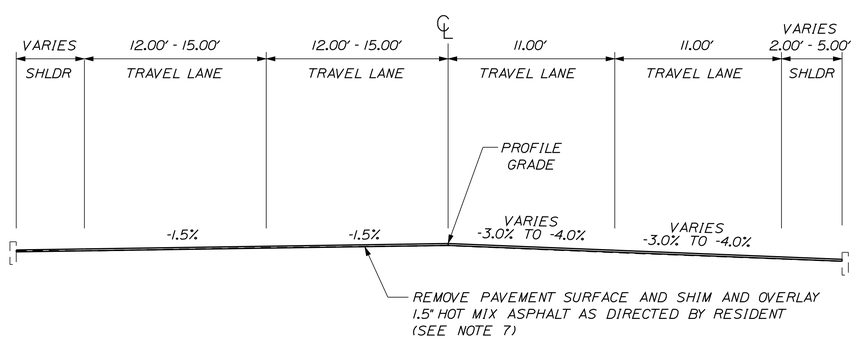
Filename: ...\002_Typicals Warren.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

NOTE:

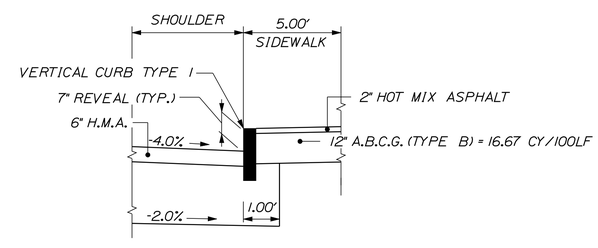
1. THE PAVEMENT, BASE AND SUBBASE DEPTHS ARE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. THE GRAVEL QUANTITY CALCULATION IS BASED ON 4" LOAM. 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. IN EXISTING PAVEMENT AREAS GRIND AT HIGH SPOTS AND SHIM WITH ITEM 403.211 TO FILL EXISTING WHEEL RUTS, AS DIRECTED BY RESIDENT. USE ITEM 403.211 TO MATCH PROPOSED PROFILE GRADE.
8. SEE PLAN AND CROSS SECTIONS FOR FULL DEPTH PAVEMENT AREAS. IN THESE AREAS REMOVE EXISTING PAVEMENT AND SHIM WITH ITEM 304.09 TYPE A, AS DIRECTED BY RESIDENT.
9. SEE PLANS AND CROSS SECTIONS FOR WIDENED AREAS OR AS DIRECTED BY RESIDENT.
10. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CONSTRUCTION CENTERLINE PROFILE AND THE REQUIRED MILLING AND/OR SHIM REQUIRED TO RROVIDE THE CENTERLINE PROFILE AND CROSS SLOPES. BASED ON THE PROPOSED CENTERLINE GRADES AND GUTTER GRADES. ALL WORK SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE RESIDENT.



SUPERELEVATED SECTION
STA. 503+40.00 TO STA. 512+12.00



STA. 501+63.00 TO STA. 503+40.00



DETAIL A
VERTICAL CURB TYPE 1 INSTALLATION
SEE MAINEDOT STANDARD DETAIL 609(07)

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

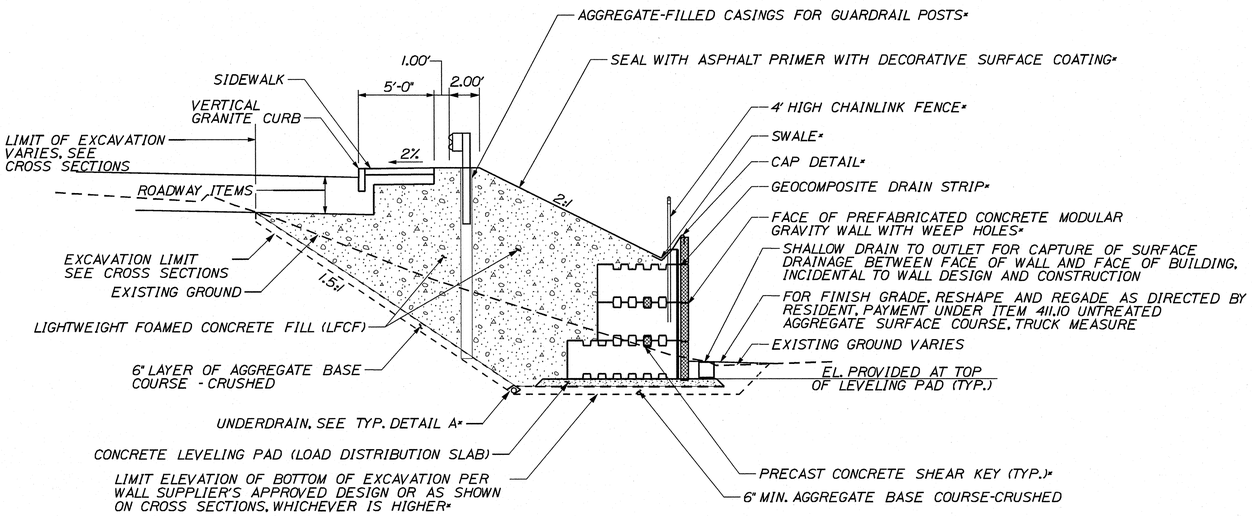
DATE

PORTLAND
RIVERSIDE ST.

TYPICAL SECTIONS

SHEET NUMBER
3
OF 45

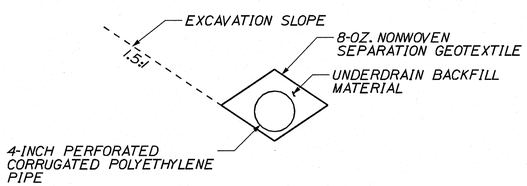
Filename: ...\003_Typicals Riverside.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



PREFABRICATED CONCRETE MODULAR GRAVITY WALL AND LFCF EMBANKMENT TYPICAL

NOT TO SCALE

* SEE NOTES AND SPECIAL PROVISIONS



DETAIL A
TYPICAL UNDERAIN DETAIL

NOT TO SCALE

GEOTECHNICAL WALL AND LFCF EMBANKMENT NOTES:

1. THE CONTRACTOR SHALL PROVIDE A PREFABRICATED CONCRETE MODULAR GRAVITY WALL WITH LIGHTWEIGHT FOAMED CONCRETE FILL (LFCF) BACKFILL AND EMBANKMENT IN ACCORDANCE WITH SPECIAL PROVISIONS 602 AND 635 AND THESE DRAWINGS. PREFABRICATED CONCRETE MODULAR GRAVITY WALL AND LFCF EMBANKMENT SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER AND THE DESIGN AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW IN ACCORDANCE WITH SPECIAL PROVISION 635. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.

2. THE PREFABRICATED CONCRETE MODULAR GRAVITY WALL SHALL BE T-WALL AS PRODUCED BY A LICENSED MANUFACTURER.

3. THE DESIGN TO BE PERFORMED BY THE WALL SUPPLIER SHALL BE IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND SPECIAL PROVISIONS 602 AND 635. BACKFILL MATERIAL PARAMETERS USED IN THE DESIGN SHALL FULLY ACCOUNT FOR THE USE OF LFCF. THE NATIVE FOUNDATION SOIL IS MEDIUM STIFF TO STIFF SILT-CLAY OF LIMITED THICKNESS THAT IS UNDERLAIN BY VERY SOFT SILT-CLAY. THE WALL SUPPLIER'S DESIGN SHALL PRESERVE AS MUCH OF THE EXISTING MEDIUM STIFF TO STIFF SILT-CLAY STRATUM AS PRACTICABLE AND SHALL INCLUDE A LOAD DISTRIBUTION SLAB TO ADDRESS THE HEAVIER LOADS ASSOCIATED WITH THE WALL FACE.

4. IN ACCORDANCE WITH SPECIAL PROVISIONS 602 AND 635, THE WALL SUPPLIER'S DESIGN SHALL ADEQUATELY ADDRESS FENCE POSTS, GUARDRAIL POSTS, ASPHALT PRIMER SURFACE SEAL WITH DECORATIVE COATING, SWALE TO COLLECT AND DIVERT SURFACE RUNOFF AWAY FROM THE TOP OF THE WALL OR OTHER SURFACE WATER CONTROL, GEOMEMBRANE FLAP OR OTHER MEANS OF LIMITING SURFACE RUNOFF INFILTRATION BEHIND THE WALL, GEOCOMPOSITE DRAIN STRIPS WITH WEEP HOLE OUTLETS OR OTHER MEANS OF LIMITING HYDROSTATIC PRESSURE, AGGREGATE DRAINAGE BLANKET WITH UNDERDRAIN OUTLET OR OTHER SEEPAGE CONTROL FOR THE EXCAVATION SLOPE, AND ALL OTHER ASPECTS OF THE WALL-LFCF EMBANKMENT SYSTEM. THE UPPER UNITS OF THE WALL SHALL BE MODIFIED TO ACCOMMODATE SUCH PROVISIONS.

5. EXISTING UTILITIES, INCLUDING NATURAL GAS AND WATER, THAT ARE LOCATED IN THE EXISTING EMBANKMENT OR BETWEEN THE PROPOSED WALL AND EXISTING BUILDING SHALL BE RELOCATED TO THE SATISFACTION OF THE RESIDENT AND UTILITY PRIOR TO ANY EXCAVATION OR LOADING ASSOCIATED WITH THE WALL-LFCF EMBANKMENT SYSTEM.

6. THE CONTRACTOR IS CAUTIONED THAT THE EXISTING SOILS ARE SENSITIVE SILT-CLAY THAT ARE EASILY DISTURBED AND THAT LOSE STRENGTH UNDER REPEATED WORKING AND VIBRATORY LOADS. CARE SHALL BE TAKEN TO LIMIT DISTURBANCE OF THE SOILS AND TO PRESERVE AS MUCH OF THE STRONGER SURFICIAL SOILS AS PRACTICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING TO THE SATISFACTION OF THE RESIDENT ANY FOUNDATION SOILS TO REMAIN THAT BECOME DISTURBED BY THE CONTRACTOR'S WORK AT NO ADDITIONAL COST TO THE OWNER.

7. FOR LIMITS OF EXCAVATION AND LFCF, REFER TO THE CROSS SECTION DRAWINGS.

8. LFCF SHALL BE PLACED IN LIFTS NOT EXCEEDING 24 INCHES IN DEPTH AND 24 HOURS SHALL BE ALLOWED BETWEEN SUBSEQUENT LIFTS.

9. ALL UNITS AT THE TOP AND ENDS OF THE WALL SHALL BE FINISHED ON ALL EXPOSED SIDES.

10. ASPHALT PRIMER WITH A DECORATIVE SURFACE COATING SHALL BE APPLIED TO ALL EXPOSED SURFACES OF LFCF, INCLUDING AROUND ALL PENETRATIONS SUCH AS GUARDRAIL AND FENCE POSTS, FOR WATERPROOFING IN ACCORDANCE WITH SPECIAL PROVISION 602.

11. IF INSTALLED IN CONTACT WITH THE LFCF, CHAIN LINK FENCE SHALL HAVE METAL POSTS RESISTANT TO THE CHEMICAL COMPOSITION OF THE CURED LFCF. THE CHAIN LINK SHALL BE BLACK PVC-COATED WOVEN WIRE.

12. THE EXPOSED FACE QUANTITY OF PREFABRICATED CONCRETE MODULAR GRAVITY WALL WILL BE APPROVED BY APPROVAL OF THE WALL SUPPLIER'S SHOP DRAWINGS.

13. AN EVALUATION OF DEEP-SEATED FOUNDATION (GLOBAL) STABILITY IS NOT THE RESPONSIBILITY OF THE CONTRACTOR.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

STATE OF MAINE
ISSUED
SCHOEFFEL
No. 7528
LICENSED
PROFESSIONAL ENGINEER

		BY	DATE
PROJ. MANAGER	S.S.,V.A.G.		
DESIGN-DETAILED	I.V.S.	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE
7528
P.E. NUMBER
2/14/11
DATE

PORTLAND
RIVERSIDE ST.

TYPICAL SECTIONS

SHEET NUMBER
4
OF 45

Division:

Filename: ...\004_Typicals Ret Wall.dgn

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	2,057	
EARTH FROM DRIVES, OLD ROAD, ETC.	19	
TOTAL COMMON EXCAVATION		2,076

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	1,324	
TOTAL FILL		1,324

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		2,076
PAVEMENT SALVAGE (CUT & FILL)	392	
(2) TOTAL DEDUCTIONS		392
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		1,684
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		505
TOTAL AVAILABLE STRUCT. EXCAVATIONS (ITEM 635.14)		998
TOTAL AVAILABLE NON-ROCK EXCAVATION		3,187

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL				1,324
TOTAL AVAIL. NON-ROCK EXCAV.	3,187	x 0.85 =	2,709	
(4)TOTAL AVAILABLE EXCAVATION			=	2,709
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION				-1,385

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED 1,385

SURPLUS MATERIAL = 1385 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-M.C.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

ESTIMATED EARTHWORKS QUANTITIES

SHEET NUMBER

5

OF 45

Filename: ...\planset\005_Estimate_001.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:3/11/2011

STATION	CULVERT PIPE											CATCH BASIN					PIPE ARCH				MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III														TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED										GAGE OR WALL THICKNESS		TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-P	B1-C	FB	E	F	SPAN	RISE	LENGTH			LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
CATCH BASINS																													
C1 STA. 505+43, 32.2' LT.												1																	REMOVE EXIST. CB - REBUILD CB
C2 STA. 506+53, 32.6' RT.												1																	REMOVE EXIST. CB (INCEDENTAL)
																													REMOVE 18"x12" PVC (INCEDENTAL)
																													ABANDON EXIST. MH @ 506+35.2, 27.9' RT.
																													PLUG AND ABANDON PIPE 55' X 12"
C3 STA. 506+64, 45.3' LT.												1																	REMOVE EXIST CB @ 506+55, 40.7' LT.
C4 STA. 211+50, 25.0' LT.												1																	
C5 STA. 213+25, 25.0' LT.												1																	
C6 STA. 214+78, 19.0' LT.																1													1' SUMP
C8 STA. 212+00, 25.0' RT.												1																	REBUILD EXIST. MH @ STA. 213+12, 36.0' RT.
C9 STA. 212+95, 24.0' RT.												1																	REMOVE 250 LFx12" HDPE (INCEDENTAL)
C10 STA. 509+51, 25.5' RT.												1																	REBUILD EXIST. CB @ STA. 512+04, 23.0' RT.
C11 STA. 508+00, 29.5' LT.												1																	
CULVERT PIPES																													
STA. 505+43, 32.2' LT. TO STA. 505+47, 21.5' LT.								12"	14'	12"	14'																		
STA. 211+00, 25.0' RT. TO STA. 212+00, 25.0' RT.																						100'							
STA. 210+00, 25.0' RT. TO STA. 211+50, 25.0' RT.																						150'							
STA. 211+50, 25.0' LT. TO STA. 213+25, 25.0' LT.																								12"	171'	12"	171'		
STA. 213+25, 25.0' LT. TO STA. 213+30, 51.0' LT.				36"	25'																								REMOVE 9 LF X 36" EXIST. CMP (INCIDENTAL)
STA. 214+78, 19.0' LT. TO STA. 214+78, 35.8' LT.								12"	15'	12"	15'																		
STA. 212+00, 25.0' RT. TO STA. 212+95, 25.0' RT.																								12"	91'	12"	91'		
STA. 212+95, 24.0' RT. TO STA. 213+12, 36.0' RT.								12"	17'	12"	17'																		
STA. 505+00, 30.0' LT. TO STA. 505+43, 32.2' LT.																						43'							
STA. 506+53, 32.6' RT. TO STA. 509+51, 25.5' RT.																								12"	281'	12"	281'		
STA. 509+51, 25.5' RT. TO STA. 512+03, 23.0' RT.																								12"	240'	12"	240'		
STA. 506+64, 46.4' LT. TO STA. 508+00, 29.5' LT.																								12"	143'	12"	143'		
STA. 508+00, 29.5' LT. TO STA. 510+13, 20.0' LT.																								12"	221'	12"	221'		
STA. 522+96, 25.0' LT. TO STA. 504+70, 29.5' LT																						172'							

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.\A.G.	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

DRAINAGE SHEET

SHEET NUMBER

6

OF 45

Filename: ...\te\planset\006_Drainage.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS: PORTLAND WATER DISTRICT, BELL ATLANTIC, PORTLAND SEWER DISTRICT, TIME WARNER CABLE, NORTHERN UTILITIES, GRANITE STATE GAS TRANSMISSIONS, PORTLAND FIRE DEPARTMENT.

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

3. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.

4. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER ITEM 202.202 REMOVING PAVEMENT SURFACE AND ITEM 403.211 HOT MIX ASPHALT (SHIM).

5. GRIND TRANSISTION TAPERS AT CATCH BASINS UNDER ITEM 203.203. PAVEMENT BUTT JOINTS, AS DIRECTED BY THE RESIDENT.

6. A VARIABLE DEPTH SHIM COURSE (ITEM 403.211) SHALL BE APPLIED PRIOR TO PLACING THE 1.5" HOT BITUMINOUS PAVEMENT, AS DIRECTED BY THE RESIDENT.

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

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

9. COMMERICAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 3" HOT MIX ASPHALT AND 11" AGGREGATE SUBBASE COURSE GRAVEL.

10. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
    - o ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS
    - o ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT
    - o ALL DITCHING AT PIPE ENDS
    - o FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW USED UNDER PIPES AND FOR TEMPORARY DETOURS TO MAINTAIN TRAFFIC DURING PIPE INSTALLATION (EXCAVATION IS ALSO INCIDENTAL).
    - o GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL
    - o ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES
    - o FLOW LINES MAY BE CHANGED BY 1.5 FT
    - o ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS.

11. ALL CATCH BASINS TYPE AI-P 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 604.071.

12. EXISTING CULVERTS AND CATCH BASINS WILL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER THE APPROPRIATE PAY ITEMS.

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

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

15. 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.

16. 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.

17. AS DIRECTED BY THE RESIDENT, ALL EXISTING UNDERDRAIN OUTLETS SHALL BE LOCATED, CLEANED OUT AND DITCHED AS REQUIRED OR REPLACED AS NECESSARY. PAYMENT WILL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

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

19. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

20. EXCESS EXISTING CURBING NOT TO BE USED ON THE PROJECT SHALL BE REMOVED AND STOCKPILED FOR PICKUP BY THE CITY OF PORTLAND PERSONNEL. NO SEPERATE PAYMENT WILL BE MADE FOR REMOVAL AND STOCKPILING.

21. GUARDRAIL WHICH IS REMOVED AND NOT REUSED ON THE PROJECT BECOMES PROPERTY OF THE STATE AND SHALL BE DELIVERED TO PORTLAND PUBLIC WORKS, CITY OF PORTLAND. REMOVAL, DELIVERY, DISMANTLING, AND STACKING SHALL BE INCIDENTAL TO THE GUARDRAIL ITEMS.

22. HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

23. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END. A DELINEATOR POST (ITEM 606.356) WILL BE INSTALLED AT EACH UNDERDRAIN OUTLET.

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

25. 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. SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL GUARDRAIL FILL SLOPES. ON LONG NON-GUARDRAIL BACKSLOPES, SEEDING METHOD NO. 3 MAY BE USED INSTEAD OF METHOD NO. 2 IF NOTED OR DIRECTED BY THE RESIDENT.

26. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.

27. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT. BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF ITEM 627.76

28. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL SIDE STAKING OF EXISTING CENTERLINE AS PER STANDARD SPECIFICATION 105.6.2. SIDE STAKES SHALL BE PLACED SAFELY OUTSIDE OF THE CONSTRUCTION LIMITS AND THE EXISTING CENTERLINE GRADES SHALL BE TRANSFERRED TO THESE STAKES. THESE STAKES AND GRADES WILL BE USED TO LAYOUT CENTERLINE AND DETERMINE NEW CONSTRUCTION FINISH GRADES FROM DIFFERENTIAL ELEVATION SHEETS FURNISHED BY MAINEDOT. ALL LAYOUT, STAKES, AND GRADES WILL BE CHECKED AND MUST BE ACCEPTABLE TO THE RESIDENT.

29. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

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

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

32. STATIONS REFERENCED ARE APPROXIMATE.

33. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTH PIPES. FOR COMPARABLE CORRUGATED SIZES SEE THE DRAINAGE TABULATIONS.

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

35. THE LOCATION OF THE EXISTING UTILITIES AND DRAINAGE SHOWN ON THE PLANS AND CROSS SECTIONS WERE COMPILED FROM FIELD SURVEY AND VARIOUS 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.

36. PAYMENT FOR FULL DEPTH PAVEMENT REMOVAL AND SAWCUT PAVEMENT AS SHOWN ON PLANS SHALL BE INCLUDED IN ITEM 203.20, COMMON EXCAVATION. PAVEMENT REMOVAL OF SURFACE PAVEMENT IS CONSIDERED ITEM 202.202.

37. ANY FINE GRADING IN AREAS WHERE FULL DEPTH PAVEMENT IS EXCAVATED SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.20, COMMON EXCAVATION.

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

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-M.C.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

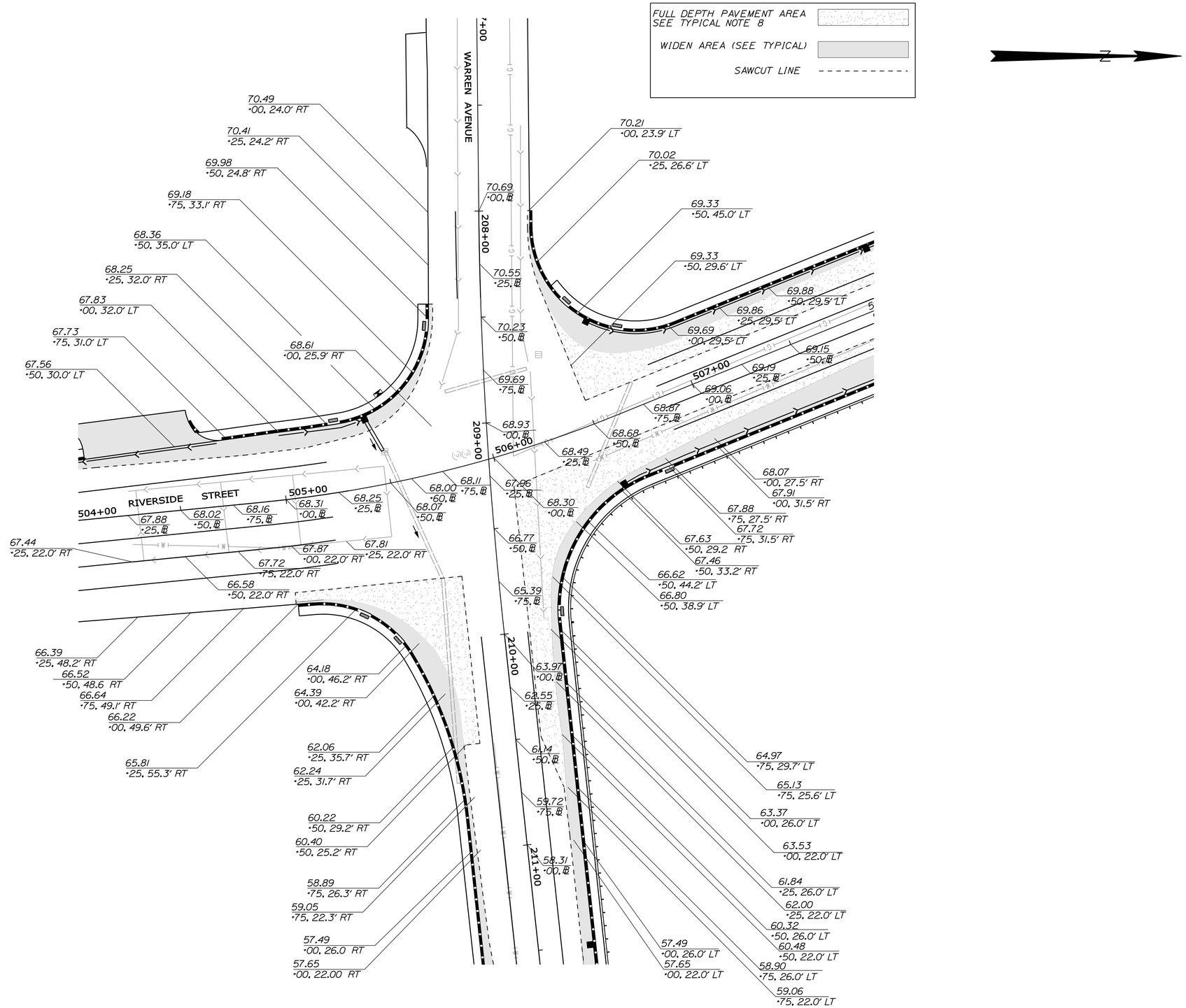
DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

GENERAL NOTES

SHEET NUMBER
7
OF 45

Filename: ...\te\planset\007_GenNotes.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



XXX.XX PROPOSED FINISHED SURFACE ELEVATIONS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	S.S.-A.G.		
DESIGN-DETAILED	LCG	MGS	
CHECKED-REVIEWED	AG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

GRADING PLAN

SHEET NUMBER

8

OF 45

Filename: ...\te\planset\008_GradingPlan.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

GUARDRAIL TYPE 3C SINGLE RAIL 8' POST - ITEM 606.233 LF
INSTALL WITH 8' POSTS

STA 209+97, 32.0' LT - STA 211+79, 32.0' LT	182
STA 506+64, 37.5' RT - STA 512+07, 30.0' RT	514

GUARDRAIL TYPE 3C OVER 15' RADIUS ITEM - 606.232 LF

STA 209+97, 32.0' LT - STA 506+64, 37.5' RT (62' R)	80

GUARDRAIL TYPE 3C 15' RADIUS AND LESS - ITEM 606.231 LF

STA 211+79, 32.0' LT (14' R)	23
STA 512+07, 30.0' RT (15' R)	25

REMOVE MANHOLE OR CATCH BASIN - ITEM 202.15 EA

STA 505+67, 27.5' LT	1
STA 209+33, 64.0' LT (INCIDENTAL)	

REMOVE AND RESET FIRE HYDRANT - ITEM 824.32 EA

FROM STA 506+67, 33.3' RT TO STA 506+82, 42.6' RT	1

TERMINAL CURB - TYPE 1-7 FT - CIRCULAR - ITEM 609.2371 EA

STA 505+20, 53.0' RT - STA 505+26, 56.0' RT	1
STA 505+31, 59.4' RT - STA 209+89, 55.4' RT	1
STA 209+89, 55.4' RT - STA 209+94, 50.6' RT	1
STA 209+99, 47.1' RT - STA 210+05, 43.8' RT	1
STA 208+37, 32.6' LT - STA 208+43, 36.9' LT	1
STA 208+47, 41.2' LT - STA 208+51, 46.8' LT	1
STA 506+69, 43.4' LT - STA 506+74, 38.9' LT	1
STA 506+79, 35.7' LT - STA 506+86, 32.7' LT	1
STA 505+31, 32.0' LT - STA 505+39, 32.5' LT	1
STA 208+63, 27.0' RT - STA 208+56, 25.5' RT	1

TERMINAL CURB - TYPE 1-12.5 FT - CIRCULAR - ITEM 609.23125 EA

STA 209+89, 26.5' LT - STA 209+76, 29.3' LT	1
STA 209+95, 26.1' LT - STA 210+07, 26.0' LT	1

CONSTRUCT SIDEWALK - ITEMS 304.09 AND 403.209

STA 503+43, 26.4' LT - STA 504+07, 28.3' LT
STA 504+61, 35.5' LT - STA 208+43, 24.7' RT
STA 505+00, 49.6' RT - STA 213+04, 24.7' RT
STA 208+37, 32.6' LT - STA 508+53, 50.3' LT
STA 512+12, 24.0' RT - STA 211+92, 31.0' LT

CONSTRUCT PEDESTRIAN RAMP

STA 208+50, 25.5' RT - STA 208+43, 24.7' RT
STA 209+89, 26.5' LT - STA 209+76, 29.3' LT
STA 209+95, 26.1' LT - STA 210+07, 26.0' LT
STA 503+43, 26.4' LT - STA 503+50, 26.2' LT
STA 504+00, 28.1' LT - STA 504+07, 28.3' LT
STA 504+58, 41.5' LT - STA 504+61, 35.5' LT
STA 505+17, 31.9' LT - STA 505+25, 32.0' LT
STA 506+66, 31.5' RT - STA 506+73, 31.5' RT
STA 506+79, 31.5' RT - STA 506+86, 31.5' RT

RESET CURB TYPE 1 - ITEM 609.38 LF

STA 503+43, 26.4' LT - STA 504+07, 28.3' LT	70
STA 504+58, 41.5' LT - STA 208+43, 24.7' LT	159
STA 505+00, 49.6' RT - STA 213+14, 24.7' RT	357
STA 208+00, 23.9' LT - STA 508+53, 50.3' LT	275

VERTICAL CURB - TYPE 1 - ITEM 609.11 LF

STA 211+81, 26.0' LT - STA 210+07, 26.0' LT	174
STA 506+86, 31.5' RT - STA 508+00, 31.5' RT	116
STA 508+00, 29.5, RT - STA 512+05, 24.0' RT	382
STA 209+77, 29.3' LT - STA 506+66, 31.5' RT	67
STA 209+95, 26.1' LT - STA 209+89, 26.5' LT	6
STA 506+73, 31.5' RT - STA 506+79, 31.5' RT	6

VERTICAL CURB - TYPE 1 - CIRCULAR - ITEM 609.12 LF

STA 504+61, 35.5 LT - STA 504+73, 31.0' LT R=15'	12.6

MASONRY PAVER WITH TRUNCATED DOMES - ITEM 608.253 SF

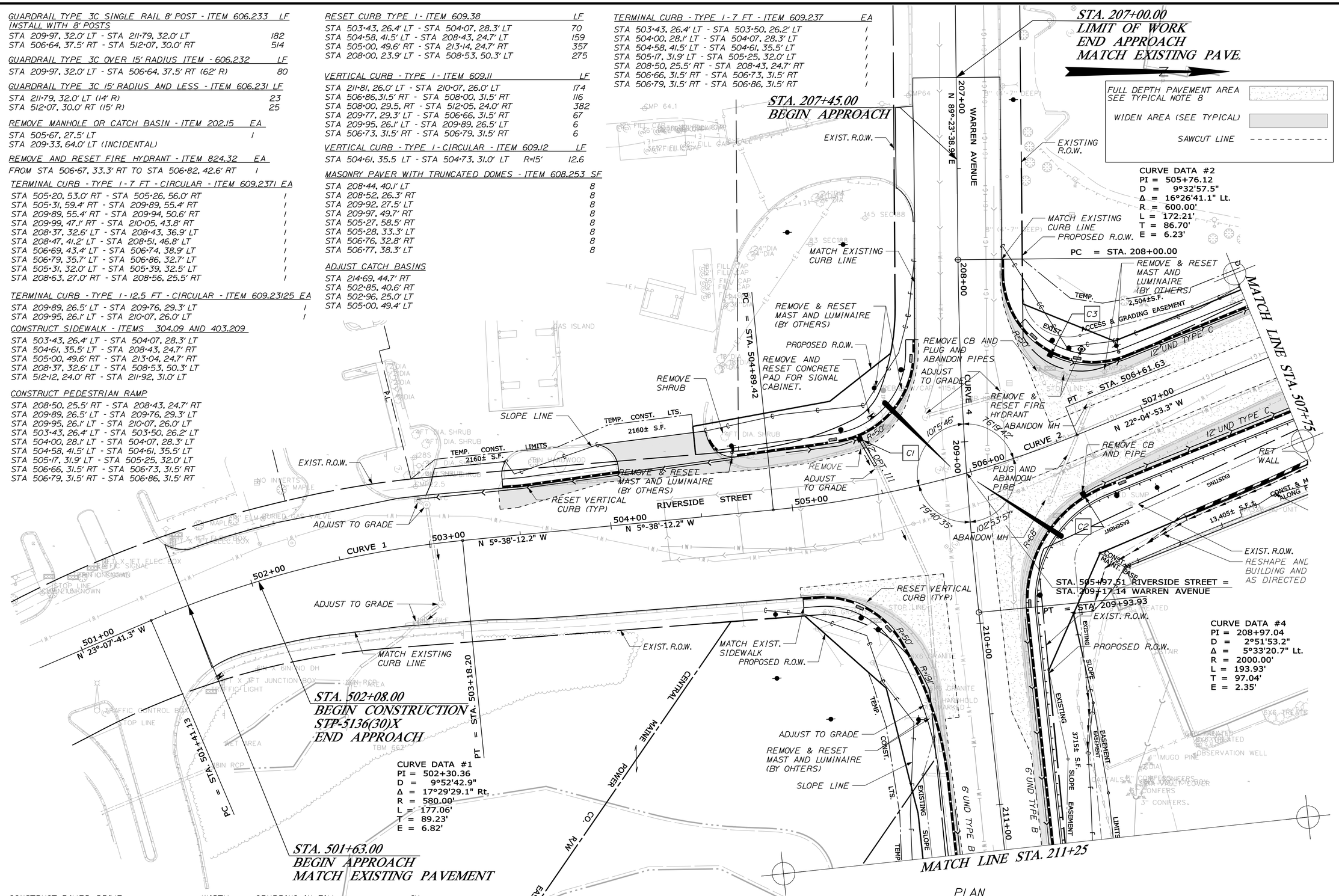
STA 208+44, 40.1' LT	8
STA 208+52, 26.3' RT	8
STA 209+92, 27.5' LT	8
STA 209+97, 49.7' RT	8
STA 505+27, 58.5' RT	8
STA 505+28, 33.3' LT	8
STA 506+76, 32.8' RT	8
STA 506+77, 38.3' LT	8

ADJUST CATCH BASINS

STA 214+69, 44.7' RT
STA 502+85, 40.6' RT
STA 502+96, 25.0' LT
STA 505+00, 49.4' LT

TERMINAL CURB - TYPE 1-7 FT - ITEM 609.237 EA

STA 503+43, 26.4' LT - STA 503+50, 26.2' LT	1
STA 504+00, 28.1' LT - STA 504+07, 28.3' LT	1
STA 504+58, 41.5' LT - STA 504+61, 35.5' LT	1
STA 505+17, 31.9' LT - STA 505+25, 32.0' LT	1
STA 208+50, 25.5' RT - STA 208+43, 24.7' RT	1
STA 506+66, 31.5' RT - STA 506+73, 31.5' RT	1
STA 506+79, 31.5' RT - STA 506+86, 31.5' RT	1



CONSTRUCT PAVED DRIVE	WIDTH
STA 207+35.00 RT.	59.0'
STA 503+25.00 LT.	42.2'
STA 504+25.00 LT.	65.4'

GRUBBING IN FILL	CY
STA 510+01.0 - STA 510+95.0 LT.	9

ABANDON MANHOLE ITEM 604.163

STA 506+35 38' RT.
STA 506+75 13' LT.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

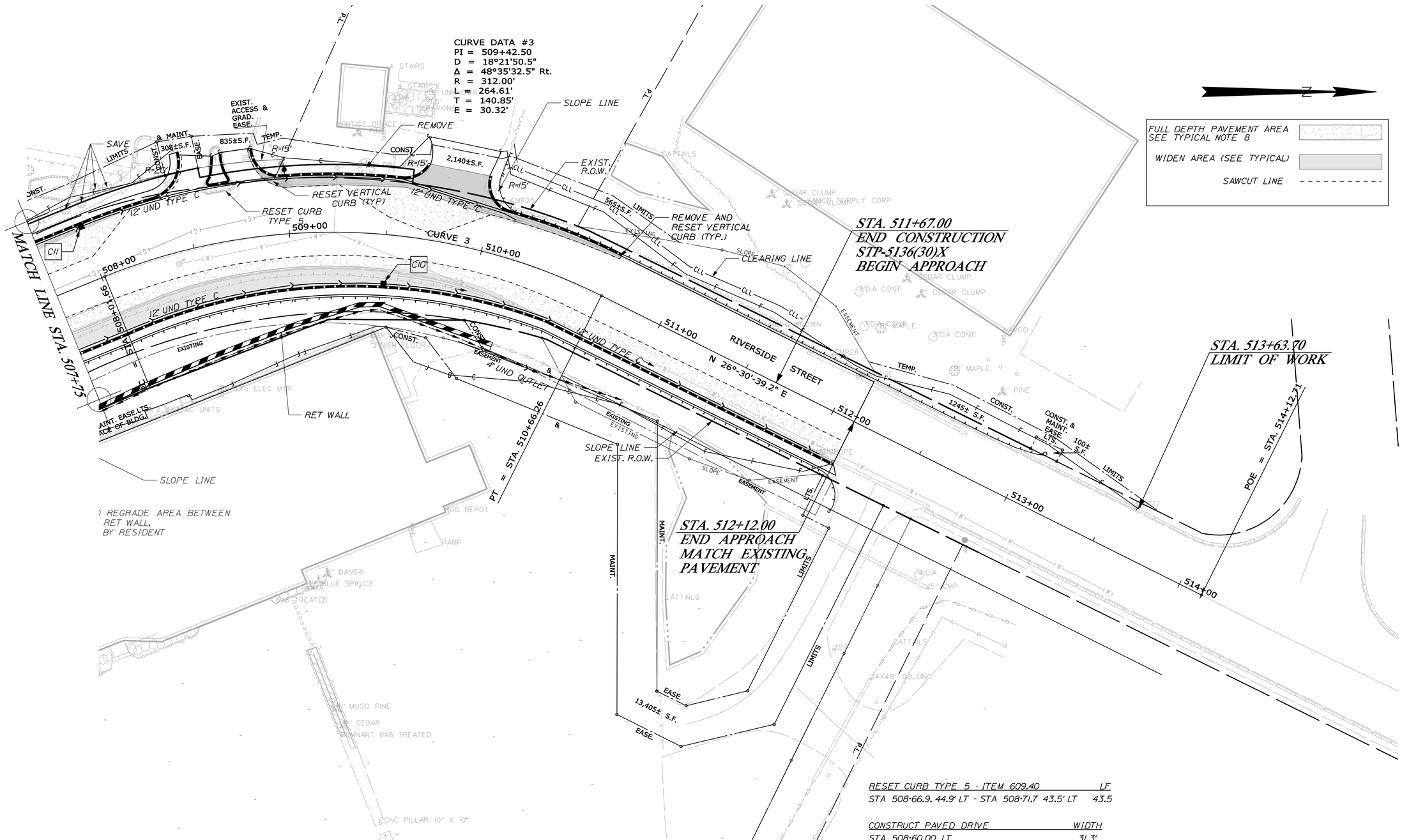
PLANS

SHEET NUMBER

9

OF 45

Filename: ...\te\planset\009_HD_PLAN_001.dgn Username: $(WIN_USERNAME) Date:1/10/2011 Division: $(WKGROUP)



VERTICAL CURB TYPE 1 - ITEM 609.11	LF
STA 508+98, 29.5' LT - STA 509+55, 29.5' LT	63

VERTICAL CURB TYPE 1 - CIRCULAR ITEM 609.12		LF
STA 212+46, 36.4' LT - STA 509+67, 38.9' LT	R=15'	18.9
STA 508+36, 29.5' LT - STA 508+52, 43.4' LT	R=20'	24.7
STA 509+55, 29.5' LT - STA 509+67, 38.9' LT	R=15'	17.5
STA 509+95, 38.7' LT - STA 510+09, 23.0' LT	R=15'	24.0

CONSTRUCT PEDESTRIAN RAMP

STA 508+52, 43.4' LT - STA 508+53, 50.3' LT
STA 512+05, 24.0' RT - STA 512+12, 24.0' RT

GUARDRAIL TYPE 3C SINGLE RAIL 8' POST #606.233	LF
INSTALL WITH 8' POSTS	
STA 510+00, 40.4' LT - STA 510+02, 528' LT	12.5
STA 510+14, 23.0' LT - STA 512+70, 23.0' LT	263
GUARDRAIL TYPE 3C 15' RADIUS AND LESS #606.231	LF
STA 510+01, 41.5' LT - STA 510+14, 23.0' LT (15' R)	25
STA 512+07, 30.0' RT - STA 512+22, 46.4' RT (15' R)	25
GUARDRAIL 350 FLARED TERMINAL #606.79	EA
STA 512+70, 23.0' LT - STA 513+08, 27.5' LT	1

TERMINAL END-SINGLE RAIL- GALVANIZED STEEL #606.265	EA
STA 512+22, 46.4' RT	1
TERMINAL CURB TYPE 1-7 FOOT - CIRCULAR #609.237	EA
STA 508+52, 43.4' LT - STA 508+53, 50.3' LT	1
TERMINAL CURB TYPE 1-7 FOOT - ITEM 609.237	EA
STA 512+05, 24.0' RT - STA 512+12, 24.0' RT	1
RESET CURB TYPE 1 ITEM 609.38	LF
STA 508+64, 34.6' LT - STA 508+72, 35.2' LT	22
STA 508+85, 45.8' LT - STA 508+98, 29.5' LT	32
STA 510+09, 23.0' LT - STA 510+66, 23.0' LT	79

RESET CURB TYPE 5 - ITEM 609.40	LF
STA 508+66.9, 44.9' LT - STA 508+71.7 43.5' LT	43.5

CONSTRUCT PAVED DRIVE	WIDTH
STA 508+60.00 LT.	31.3'
STA 508+80.00 LT.	26.7'
STA 509+75.00 LT.	58.1'

PREFABRICATED CONCRETE MODULAR GRAVITY WALL - ITEM 635.14	SF
STA 507+48, 59.0' RT - STA 509+81.0, 37.4' RT	730
REMOVING SINGLE TREE TOP ONLY - ITEM 201.23	EA
STA 509+38, 34.0' LT	1
REMOVING STUMP - ITEM 201.24	EA
STA 509+38, 34.0' LT	1

PLAN

25 0 25 50
Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	S.S.-A.G.	---
DESIGN-DETAILED	LCG	---
CHECKED-REVIEWED	MGS	---
DESIGN2-DETAILED2	AG	---
DESIGN3-DETAILED3	---	---
REVISIONS 1	---	---
REVISIONS 2	---	---
REVISIONS 3	---	---
REVISIONS 4	---	---
FIELD CHANGES	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

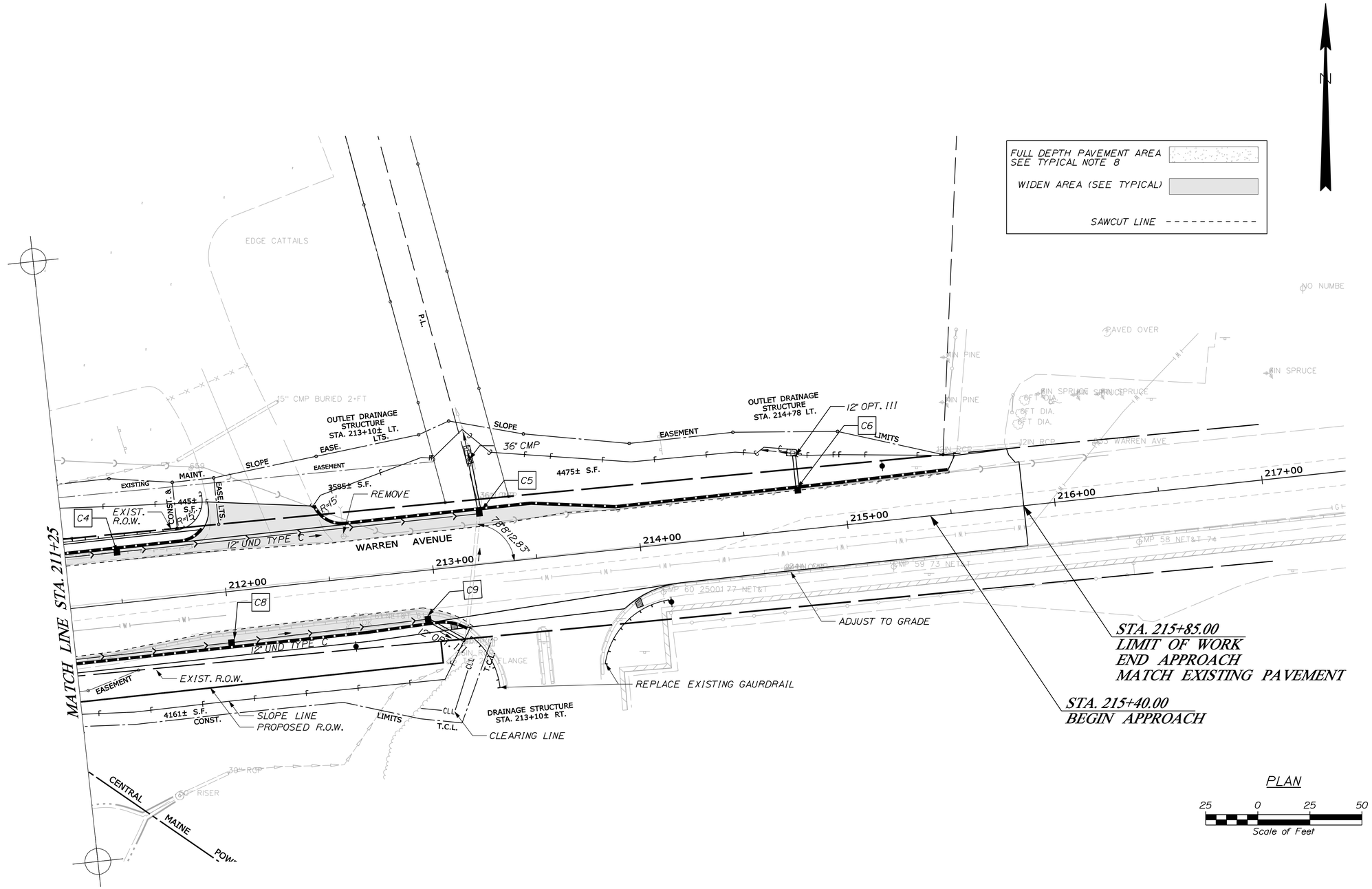
PLANS

SHEET NUMBER

10

OF 45

Filename: ...\te\plonset\010_HD_PLAN_002.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



CONSTRUCT PEDESTRIAN RAMP

STA 211+81, 26.0' LT - STA 211+88, 27.7' LT
STA 212+98, 24.9' RT - STA 213+05, 24.7' RT

CONSTRUCT PAVED DRIVE	WIDTH
STA 212+25.00 LT.	79.2'
STA 213+50.00 RT.	114.0'
STA 215+68.00 LT.	33.0'

PLAIN RIPRAP	ITEM 610.08
STA 213+30, 51.1' LT	
STA 214+78, 36.0' LT	

ADJUST CATCHBASIN

STA 214+70, 18.7' RT

MASONRY PAVERS WITH TRUNCATED DOMES - ITEM 608.253	SF
STA 213+07, 25.7' RT	8
STA 213+99, 25.3' RT	8

CONSTRUCT SIDEWALK SUBBASE AND TOP WITH 2" LOAM AND SEED

STA 212+50, 30.0' LT - STA 215+50, 20.5' LT

GUARDRAIL TYPE 3C SINGLE POST - *606.23	LF
STA 214+11, 27.0' RT TO STA 213+77, 53.5' RT	46.0
STA 213+15, 33.0' RT TO STA 213+27, 60.0' RT	31.0

GUARDRAIL TYPE 3C 15' RADIUS AND LESS - *606.231	LF
STA 211+79, 32.0' LT - STA 211+93, 47.2' LT (14' R)	23.3

TERMINAL END-SINGLE RAIL-GALVANIZED STEEL *606.2	EA
STA 211+93, 47.2' LT	1

TERMINAL CURB TYPE 1 - 7FT CIRCULAR - ITEM 609.2371		EA
STA 211+81, 26.0' LT - STA 211+88, 27.7' LT	R=20	1
STA 212+98, 24.9' RT - STA 213+05, 24.7' RT	R=25	1

VERTICAL CURB TYPE 1 - ITEM 609.11	LF
STA 212+60, 26.6' LT - STA 215+50, 20.6' LT	291

VERTICAL CURB TYPE 1 - CIRCULAR - ITEM 609.12		LF
STA 211+88, 27.6' LT - STA 211+92, 31.0' LT	R=20	4
STA 212+46, 36.4' LT - STA 212+60, 26.6' LT	R=15	19
STA 213+04, 24.7' RT - STA 213+14, 29.5' RT	R=25	9

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.-A.C.	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	
CHECKED-REVIEWED	AG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

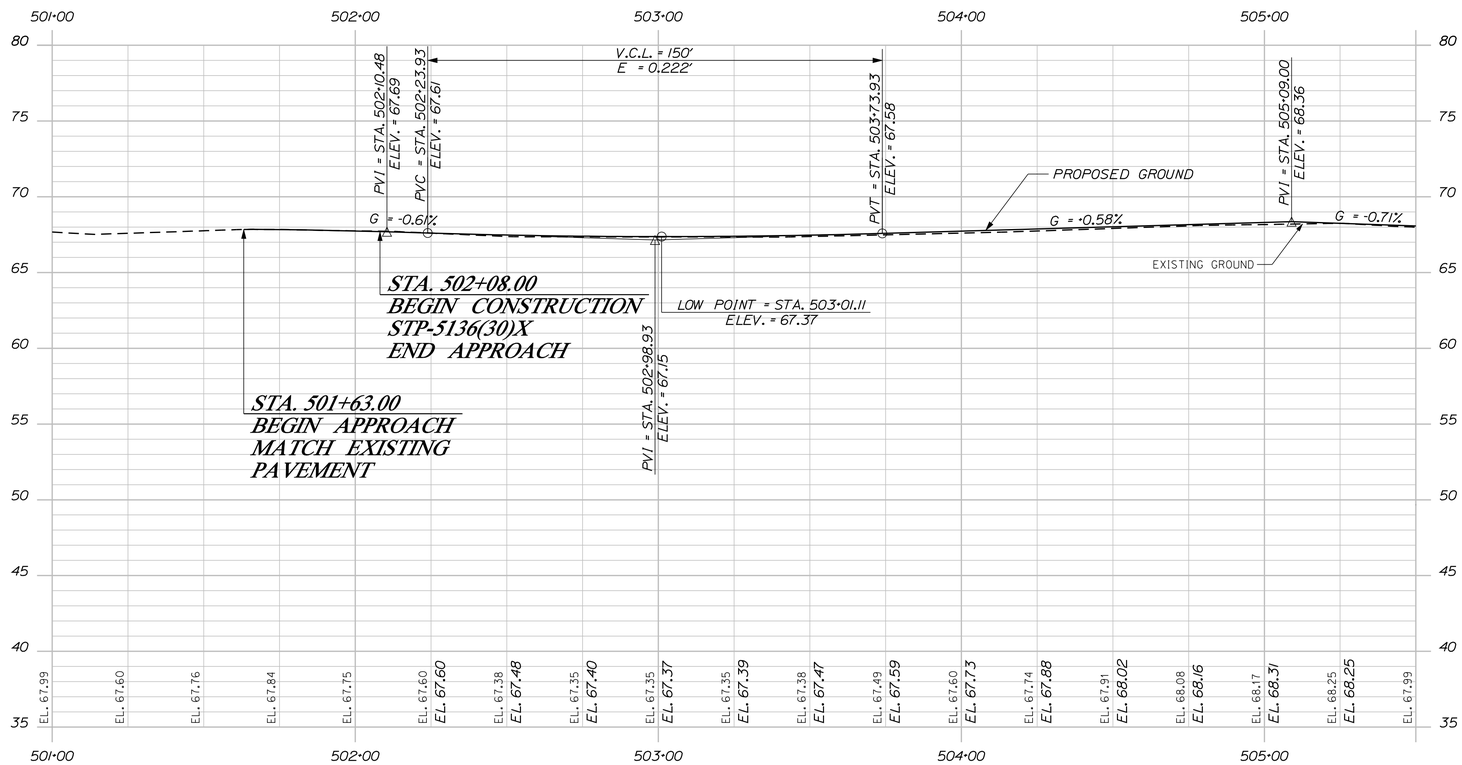
PLANS

SHEET NUMBER

11

OF 45

Filename: ...\te\plonset\011_HD_PLAN_004.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



PROFILE

Horiz. 25 0 25 50

Vert. 5 0 5 10

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.\A.G.	BY	DATE
PROJ. MANAGER		MGS	---
DESIGN-DETAILED	LCG		---
CHECKED-REVIEWED	AG		---
DESIGN2-DETAILED2	---		---
DESIGN3-DETAILED3	---		---
REVISIONS 1	---		---
REVISIONS 2	---		---
REVISIONS 3	---		---
REVISIONS 4	---		---
FIELD CHANGES	---		---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

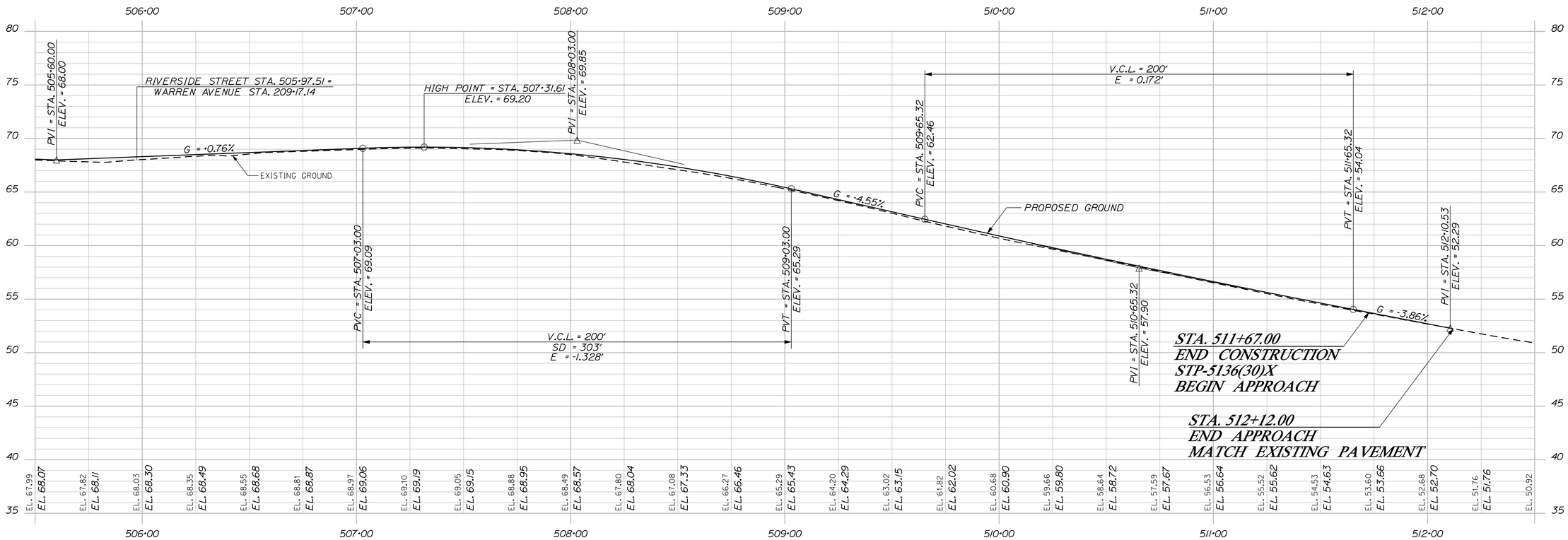
RIVERSIDE ST. PROFILE

SHEET NUMBER

12

OF 45

Filename: ...\te\planset\012_Profile_001.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



PROFILE

Horiz. 25 0 25 50

Vert. 5 0 5 10

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.\A.C.	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

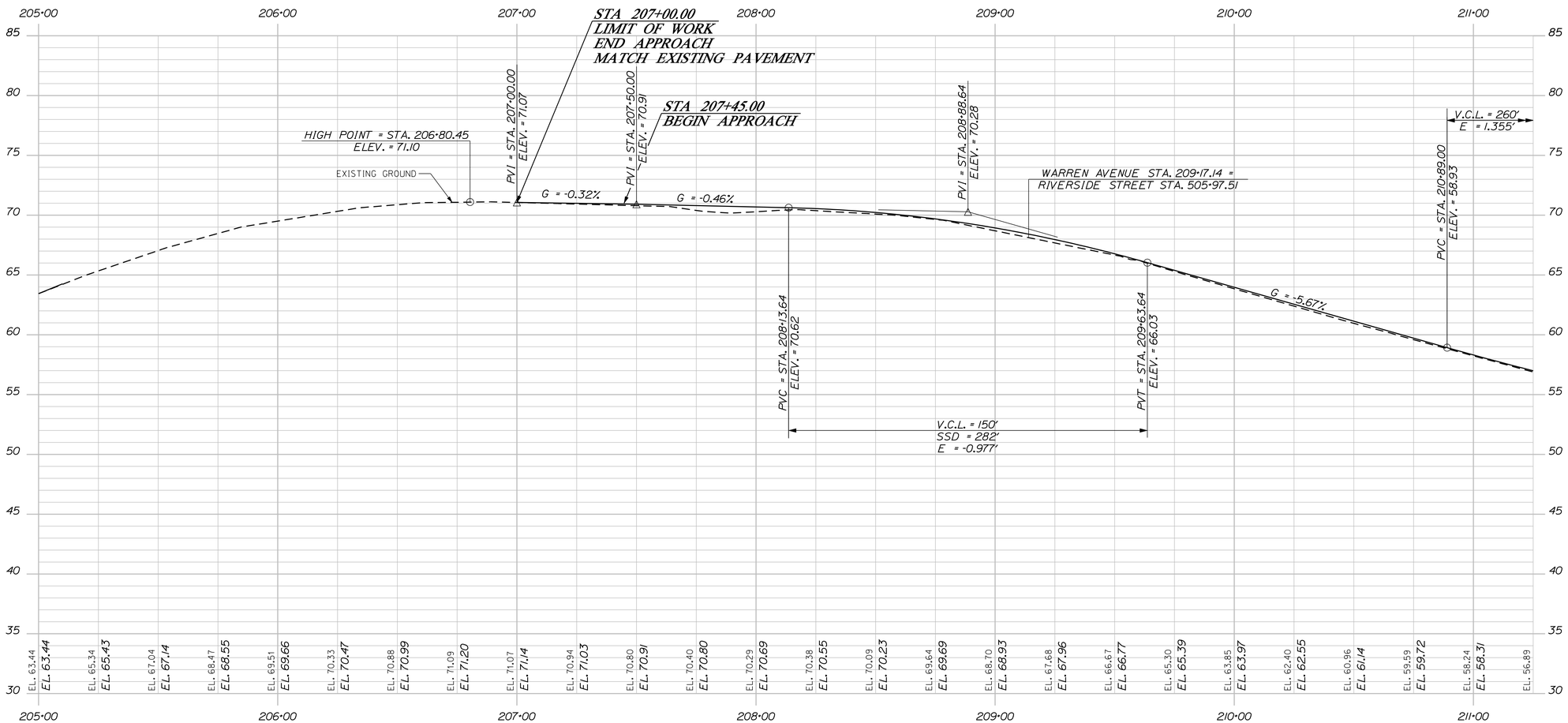
RIVERSIDE ST. PROFILE

SHEET NUMBER

13

OF 45

Filename: ...\te\planset\013_Profile_002.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



PROFILE

Horiz. 25 0 25 50

Vert. 5 0 5 10

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-M.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

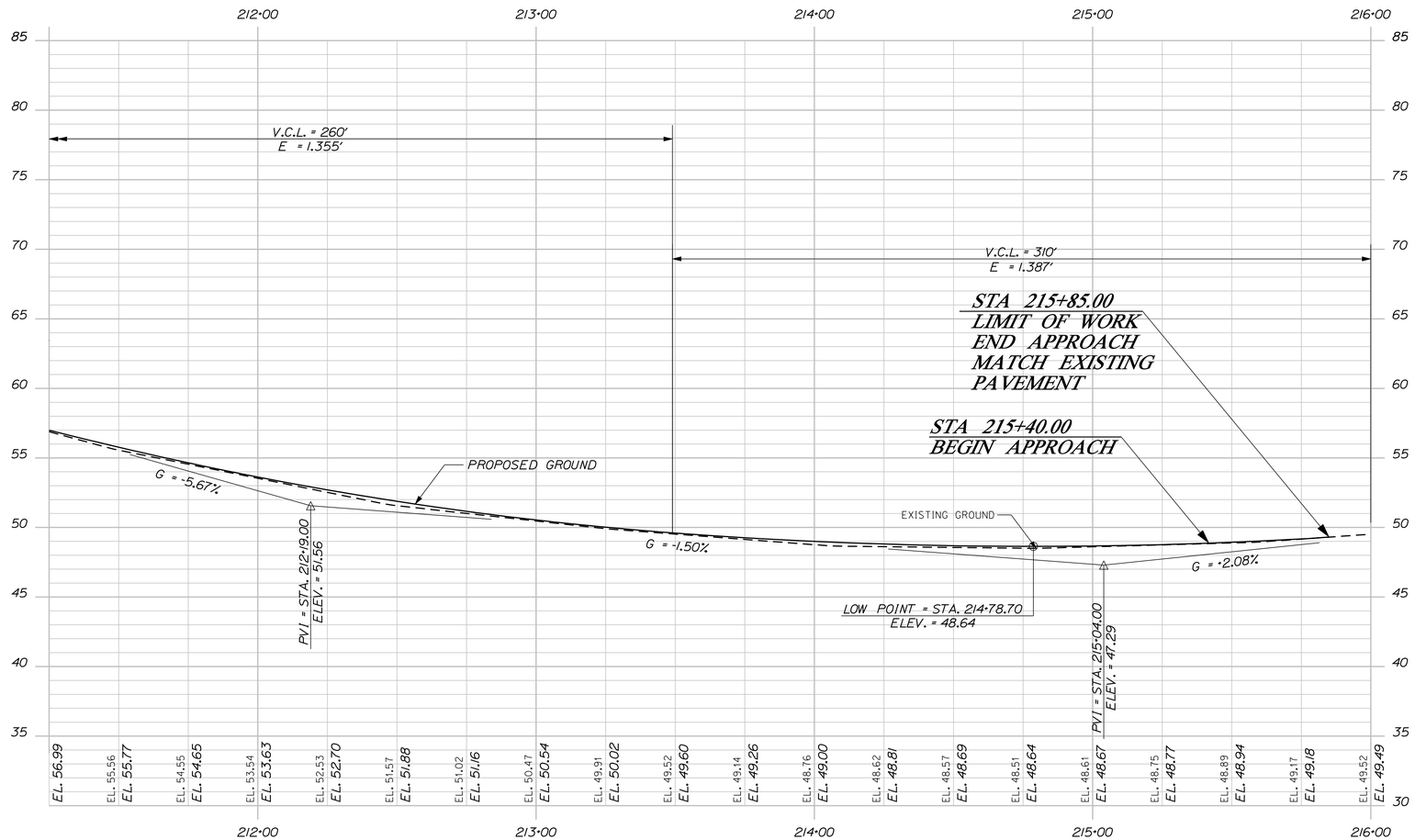
WARREN AVE. PROFILE

SHEET NUMBER

14

OF 45

Filename: ...\te\planset\014_Profile_003.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



PROFILE

Horiz. 25 0 25 50

Vert. 5 0 5 10

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.\A.C.	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

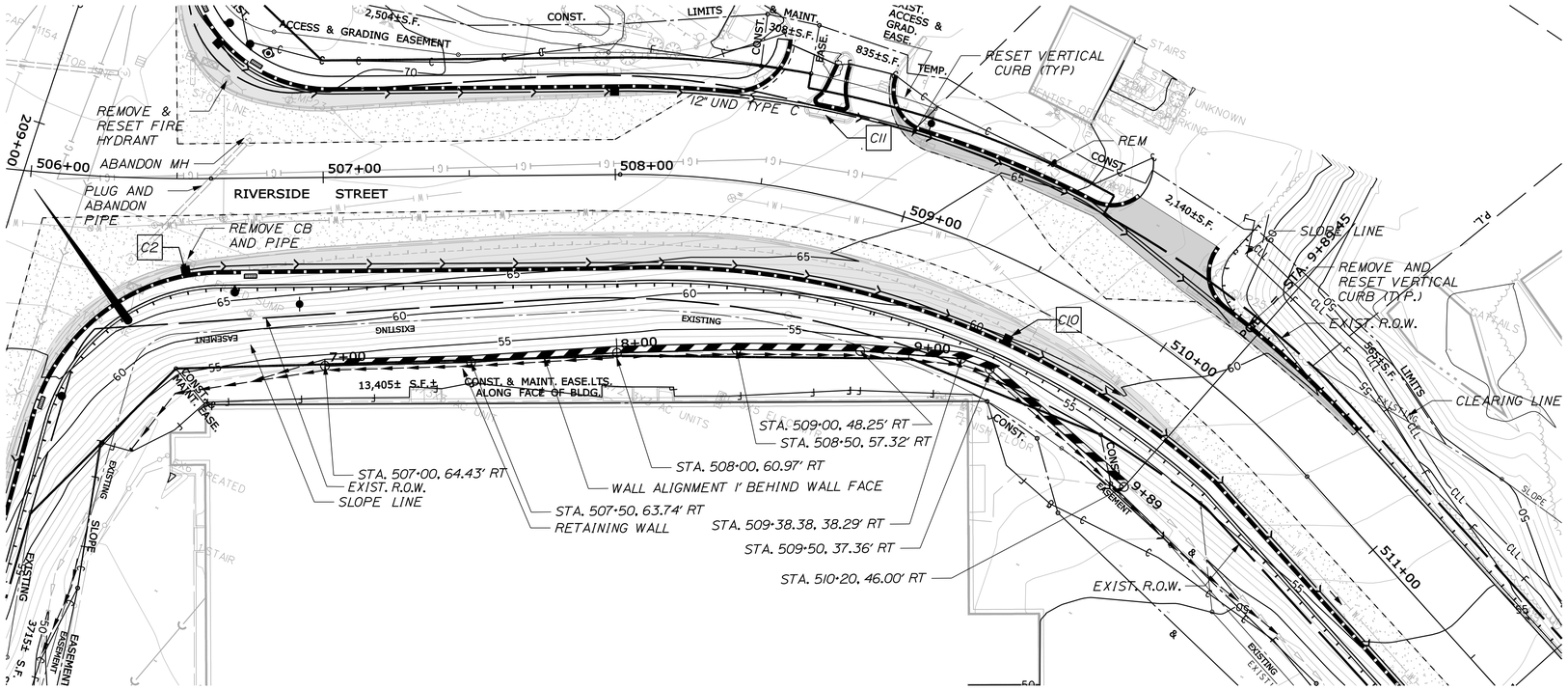
WARREN AVE. PROFILE

SHEET NUMBER

15

OF 45

Filename: ...\te\planset\015_Profile_004.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

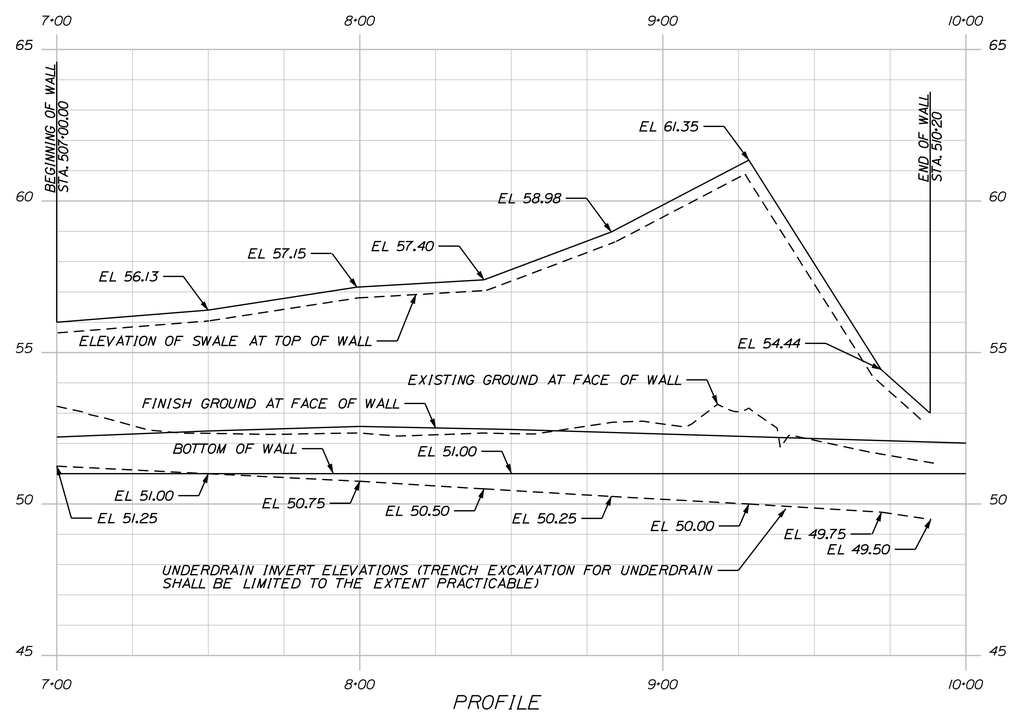


PLAN

PLAN

25 0 25 50

Scale of Feet



PROFILE

NOTE:

1. FINAL ELEVATION OF TOP OF WALL AND TERMINATION DETAIL PER WALL SUPPLIER'S APPROVED DESIGN. FINAL TOP OF WALL NOT TO EXTEND HIGHER THAN 2-FT. ABOVE SWALE INVERT.

PROFILE

Horiz. 25 0 25 50

Vert. 5 0 5 10

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

RETAINING WALL PROFILE

SHEET NUMBER

16

OF 45

Filename: ...\te\planset\016_Profile_005.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

CONTROL POINTS				
Point	Station	Offset	X Coord.	Y Coord.
1	503+42.92	26.39 LT	310601.54	996645.16
2	503+49.99	26.24 LT	310608.59	996644.61
3	504+00.22	28.05 LT	310658.39	996637.88
4	504+07.21	28.33 LT	310665.33	996636.91
5	504+57.68	41.50 LT	310714.25	996618.85
6	504+61.23	35.54 LT	310718.37	996624.44
7	504+72.60	31.00 LT	310730.14	996627.84
8	504+79.59	31.28 LT	310737.07	996626.87
8A	504+99.98	32.00 LT	310756.71	996624.12
9	505+17.43	31.85 LT	310773.12	996622.11
10	505+24.83	31.97 LT	310780.02	996620.94
150	505+31.16	82.00 LT	310777.58	996570.64
11	505+31.16	32.00 LT	310785.94	996619.94
12	505+38.56	32.45 LT	310792.76	996618.29
13	208+62.54	27.04 RT	310825.92	996583.43
14	208+55.97	25.47 RT	310827.21	996576.71
15	208+50.00	24.88 RT	310827.58	996570.65
16	208+43.09	24.67 RT	310827.55	996563.65
151	503+80.00	160.13 RT	310656.76	996827.13
152	505+04.79	99.82 RT	310777.54	996754.38
17	505+00.00	49.58 RT	310766.18	996705.15
18	505+06.72	49.87 RT	310773.44	996704.55
19	505+20.25	52.96 RT	310788.42	996705.58
20	505+26.08	55.98 RT	310795.16	996707.59
21	505+30.81	59.42 RT	310800.84	996710.14
22	209+88.86	55.39 RT	310807.10	996714.06
23	209+93.80	50.56 RT	310812.45	996718.59
24	209+98.58	47.06 RT	310816.44	996722.97
25	210+04.58	43.75 RT	310820.37	996728.59
26	210+85.00	26.00 RT	310846.66	996806.63
27	210+07.50	26.00 LT	310890.04	996724.00
153	506+64.50	99.50 RT	310956.60	996707.05
28	209+94.93	26.06 LT	310888.75	996711.50
29	209+88.83	26.54 LT	310888.59	996705.44
30	209+76.49	29.26 LT	310890.05	996693.07
31	506+64.50	31.50 RT	310931.04	996644.03
32	506+71.50	31.50 RT	310937.53	996641.40
33	506+77.50	31.50 RT	310943.09	996639.15
34	506+84.50	31.50 RT	310949.57	996636.52

CONTROL POINTS FOR MIDPOINT OF CURB INLETS				
Point	Station	Offset	X Coord.	Y Coord.
100	505+43.11	33.18 LT	310796.85	996616.78
101	506+53.23	32.58 RT	310920.56	996649.38
102	208+61.29	42.04 LT	310894.88	996579.31
103	208+53.12	49.80 LT	310902.32	996571.03

CONTROL POINTS				
Point	Station	Offset	X Coord.	Y Coord.
154	507+03.27	79.50 LT	310925.24	996526.60
35	208+00.00	23.90 LT	310875.19	996519.53
36	208+07.55	23.86 LT	310875.24	996526.99
37	208+36.88	32.57 LT	310884.57	996555.71
38	208+42.51	36.87 LT	310889.04	996561.10
39	208+46.86	41.22 LT	310893.53	996565.22
40	208+51.26	46.80 LT	310899.26	996569.33
41	506+68.75	43.37 LT	310906.84	996573.06
42	506+74.15	38.85 LT	310913.54	996575.21
43	506+79.23	35.65 LT	310919.45	996576.27
44	506+85.66	32.68 LT	310926.53	996576.60
45	507+03.27	29.50 LT	310944.04	996572.93

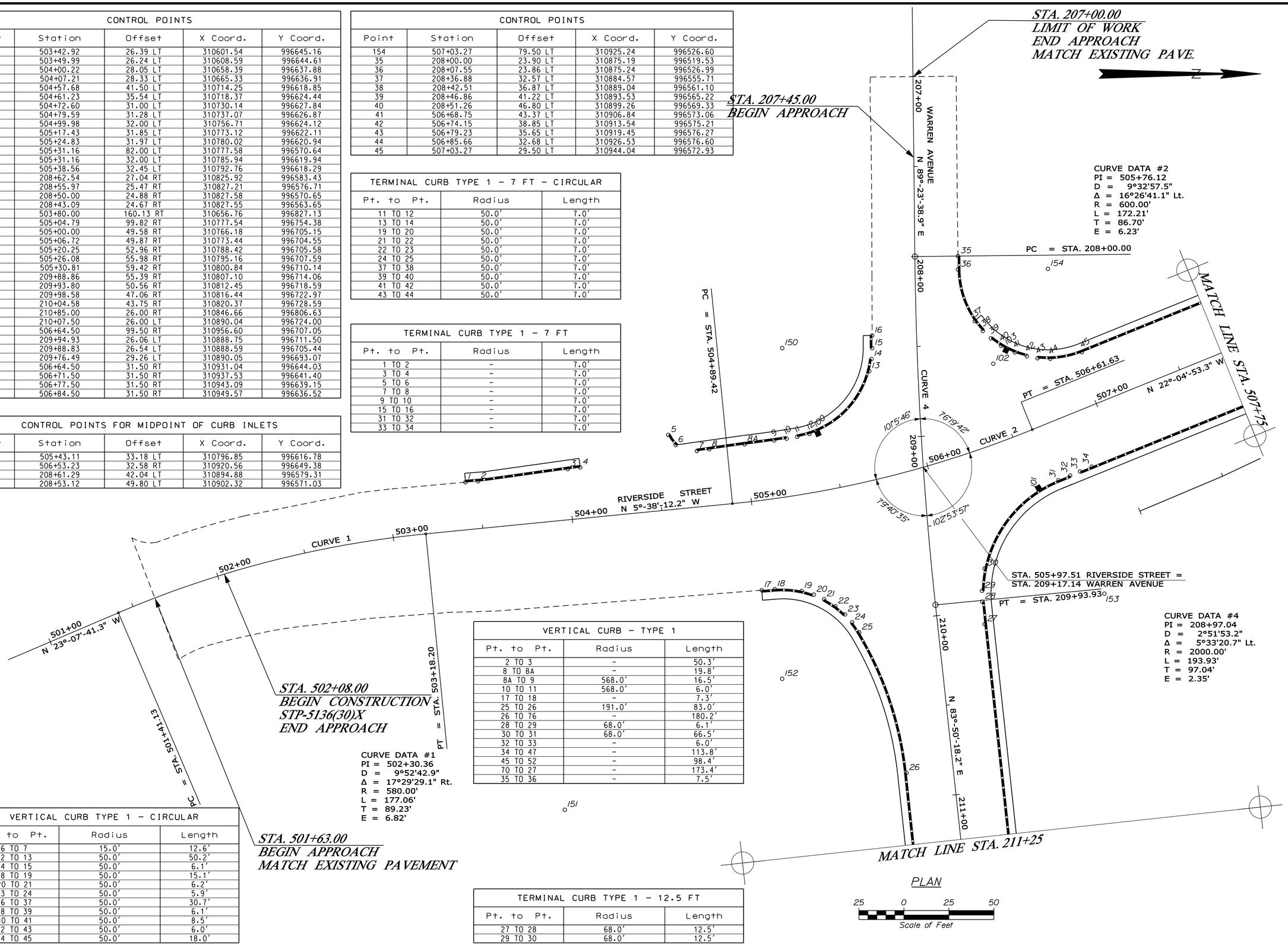
TERMINAL CURB TYPE 1 - 7 FT - CIRCULAR		
Pt. to Pt.	Radius	Length
11 TO 12	50.0'	7.0'
13 TO 14	50.0'	7.0'
19 TO 20	50.0'	7.0'
21 TO 22	50.0'	7.0'
22 TO 23	50.0'	7.0'
24 TO 25	50.0'	7.0'
37 TO 38	50.0'	7.0'
39 TO 40	50.0'	7.0'
41 TO 42	50.0'	7.0'
43 TO 44	50.0'	7.0'

TERMINAL CURB TYPE 1 - 7 FT		
Pt. to Pt.	Radius	Length
1 TO 2	-	7.0'
3 TO 4	-	7.0'
5 TO 6	-	7.0'
7 TO 8	-	7.0'
9 TO 10	-	7.0'
15 TO 16	-	7.0'
31 TO 32	-	7.0'
33 TO 34	-	7.0'

VERTICAL CURB - TYPE 1		
Pt. to Pt.	Radius	Length
2 TO 3	-	50.3'
8 TO 8A	-	19.8'
8A TO 9	568.0'	16.5'
10 TO 11	568.0'	6.0'
17 TO 18	-	7.3'
25 TO 26	191.0'	83.0'
26 TO 76	-	180.2'
28 TO 29	68.0'	6.1'
30 TO 31	68.0'	66.5'
32 TO 33	-	6.0'
34 TO 47	-	113.8'
45 TO 52	-	98.4'
70 TO 27	-	173.4'
35 TO 36	-	7.5'

VERTICAL CURB TYPE 1 - CIRCULAR		
Pt. to Pt.	Radius	Length
6 TO 7	15.0'	12.6'
12 TO 13	50.0'	50.2'
14 TO 15	50.0'	6.1'
18 TO 19	50.0'	15.1'
20 TO 21	50.0'	6.2'
23 TO 24	50.0'	5.9'
36 TO 37	50.0'	30.7'
38 TO 39	50.0'	6.1'
40 TO 41	50.0'	8.5'
42 TO 43	50.0'	6.0'
44 TO 45	50.0'	18.0'

TERMINAL CURB TYPE 1 - 12.5 FT		
Pt. to Pt.	Radius	Length
27 TO 28	68.0'	12.5'
29 TO 30	68.0'	12.5'



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.\.A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE
P.E. NUMBER
DATE

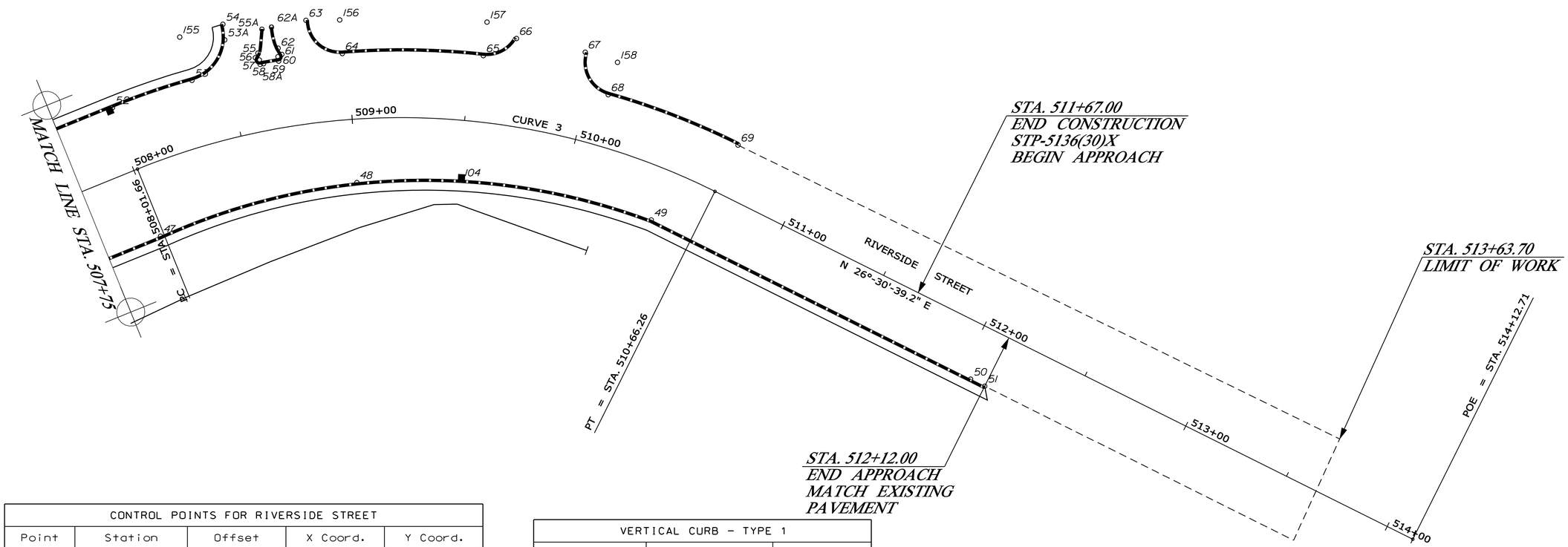
PORTLAND
WARREN AVE.\RIVERSIDE ST.

GEOMETRIC CURB LAYOUT

SHEET NUMBER
17
OF 45

Filename: ...\017_HD_CURB LAYOUT_001.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

CURVE DATA #3
PI = 509+42.50
D = 18°21'50.5"
Δ = 48°35'32.5" Rt.
R = 312.00'
L = 264.61'
T = 140.85'
E = 30.32'



PLAN

25 0 25 50
Scale of Feet

CONTROL POINTS FOR RIVERSIDE STREET				
Point	Station	Offset	X Coord.	Y Coord.
47	507+99.95	31.51 RT	311056.56	996593.13
48	509+00.08	28.16 RT	311143.75	996569.25
49	510+45.00	23.33 RT	311274.55	996585.91
50	512+05.17	24.00 RT	311416.44	996656.68
51	512+12.17	24.00 RT	311422.70	996659.81
52	508+01.66	29.50 LT	311035.21	996535.95
155	508+35.79	49.50 LT	311065.07	996504.58
53	508+35.79	29.50 LT	311070.52	996523.82
53A	508+52.36	43.37 LT	311085.04	996505.82
54	508+53.02	50.29 LT	311084.25	996498.90
55	508+64.17	34.58 LT	311099.83	996511.73
55A	508+55.64	50.52 LT	311087.18	996498.02
56	508+62.82	32.78 LT	311098.69	996513.78
57	508+64.22	31.50 LT	311100.44	996514.75
58	508+64.22	29.50 LT	311100.81	996516.72
59	508+71.84	29.50 LT	311109.03	996515.28
60	508+71.84	31.50 LT	311108.71	996513.31
61	508+73.53	32.24 LT	311110.43	996512.29
62	508+72.45	35.25 LT	311108.78	996509.50
62A	508+84.87	45.81 LT	311121.22	996497.11
156	508+97.86	44.50 LT	311136.15	996496.96
63	508+84.81	45.80 LT	311121.15	996497.13
64	508+97.86	29.50 LT	311137.30	996511.91
157	509+55.21	44.49 LT	311201.58	996497.94
65	509+55.19	29.50 LT	311199.96	996512.84
66	509+67.47	38.91 LT	311214.66	996505.22
67	509+95.19	38.73 LT	311245.22	996511.30
158	510+08.56	37.99 LT	311259.55	996515.82
68	510+08.54	23.00 LT	311255.42	996530.23
69	510+66.26	23.00 LT	311313.12	996552.62

CONTROL POINTS FOR MIDPOINT OF CURB INLETS				
Point	Station	Offset	X Coord.	Y Coord.
104	509+51.04	26.47 RT	311190.21	996568.11
52	508+00.00	29.50 LT	311035.21	996535.95

VERTICAL CURB - TYPE 1		
Pt. to Pt.	Radius	Length
34 TO 47	-	115.5'
47 TO 48	282.4'	90.7'
48 TO 49	286.2'	133.0'
49 TO 50	-	158.6'
52 TO 53	341.5'	37.4'
55A TO 55	-	10.5'
55 TO 56	-	2.3'
58 TO 59	-	8.3'
62A TO 62	-	11.0'
61 TO 62	-	3.2'
64 TO 65	341.5'	62.7'
68 TO 69	335.0'	62.0'

VERTICAL CURB TYPE 1 - CIRCULAR		
Pt. to Pt.	Radius	Length
53 TO 53A	20.0'	24.7'
56 TO 58	2.0'	4.5'
59 TO 61	2.0'	3.9'
63 TO 64	15.0'	24.5'
65 TO 66	15.0'	17.5'
67 TO 68	15.0'	24.0'

TERMINAL CURB TYPE 1 - 7 FT - CIRCULAR		
Pt. to Pt.	Radius	Length
53A TO 54	20.0'	7.0'

TERMINAL CURB TYPE 1 - 7 FT		
Pt. to Pt.	Radius	Length
50 TO 51	-	7.0'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

GEOMETRIC CURB LAYOUT

SHEET NUMBER
18
OF 45

Filename: ...\018_HD_CURB LAYOUT_002.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

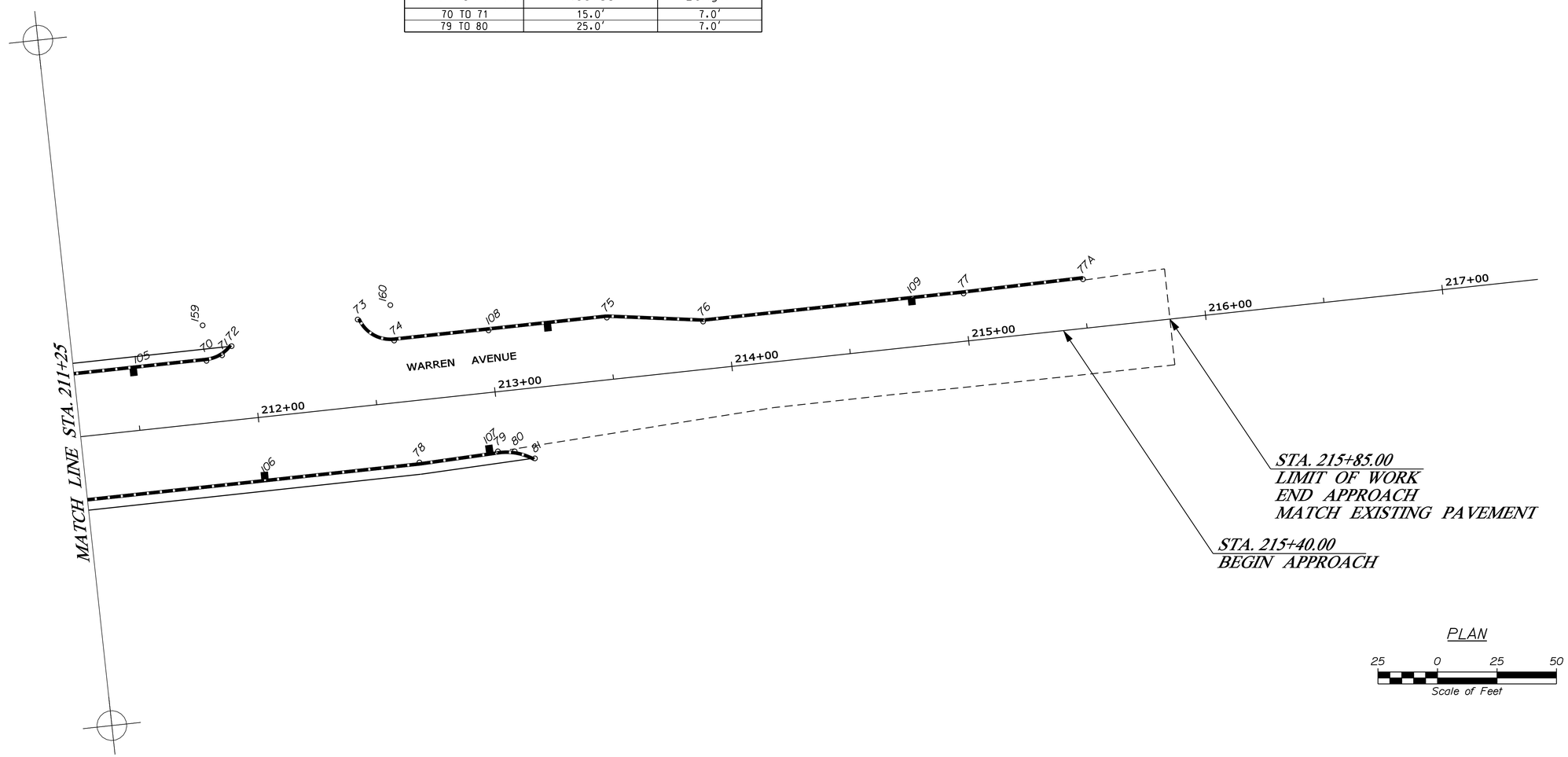
CONTROL POINTS FOR WARREN AVENUE				
Point	Station	Offset	X Coord.	Y Coord.
159	211+80.92	41.00 LT	310923.56	996894.81
70	211+80.92	26.00 LT	310908.65	996896.42
71	211+87.70	27.62 LT	310910.98	996902.98
72	211+92.10	31.00 LT	310914.82	996907.00
160	212+60.18	41.00 LT	310932.07	996973.61
73	212+45.89	36.44 LT	310926.01	996959.89
74	212+60.18	26.00 LT	310917.16	996975.22
75	213+50.00	26.00 LT	310926.80	997064.52
76	213+90.00	20.00 LT	310925.13	997104.93
77	215+00.00	20.00 LT	310936.93	997214.30
77A	215+50.47	20.55 LT	310942.90	997264.42
78	212+65.25	26.00 RT	310866.00	996985.84
79	212+98.50	24.89 RT	310870.67	997018.78
80	213+03.59	24.72 RT	310871.39	997023.83
81	213+13.65	29.51 RT	310867.71	997034.34

VERTICAL CURB - TYPE 1		
Pt. to Pt.	Radius	Length
74 TO 75	-	89.8'
75 TO 76	-	40.4'
76 TO 77	-	110.0'
77 TO 77A	-	50.5'
78 TO 79	-	33.3'

VERTICAL CURB TYPE 1 - CIRCULAR		
Pt. to Pt.	Radius	Length
71 TO 72	15.0'	5.6'
73 TO 74	15.0'	18.9'
80 TO 81	25.0'	9.0'

TERMINAL CURB TYPE 1 - 7 FT - CIRCULAR		
Pt. to Pt.	Radius	Length
70 TO 71	15.0'	7.0'
79 TO 80	25.0'	7.0'

CONTROL POINTS FOR MIDPOINT OF CURB INLETS				
Point	Station	Offset	X Coord.	Y Coord.
105	211+50.00	26.00 LT	310905.33	996865.67
106	212+00.00	26.00 RT	310859.00	996920.97
107	212+95.05	25.01 RT	310870.19	997015.36
108	213+00.02	26.00 LT	310921.43	997014.83
109	214+78.00	19.00 LT	310933.58	997192.53



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.\A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

GEOMETRIC CURB LAYOUT

SHEET NUMBER

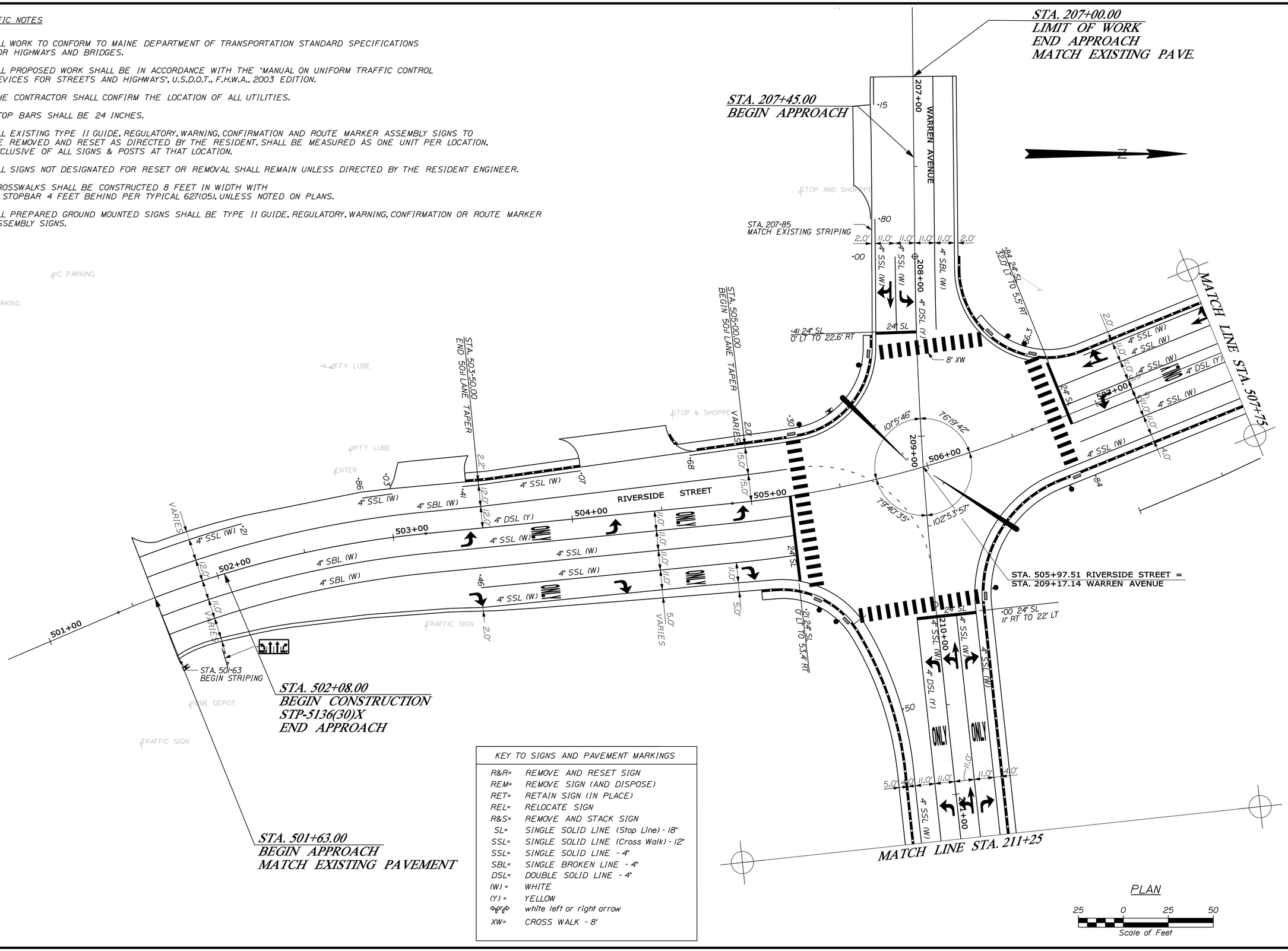
19

OF 45

Filename: ...\019_HD_CURB LAYOUT_004.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

TRAFFIC NOTES

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
2. ALL PROPOSED WORK SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", U.S.D.O.T., F.H.W.A., 2003 EDITION.
3. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES.
4. STOP BARS SHALL BE 24 INCHES.
5. ALL EXISTING TYPE II GUIDE, REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TO BE REMOVED AND RESET AS DIRECTED BY THE RESIDENT, SHALL BE MEASURED AS ONE UNIT PER LOCATION, INCLUSIVE OF ALL SIGNS & POSTS AT THAT LOCATION.
6. ALL SIGNS NOT DESIGNATED FOR RESET OR REMOVAL SHALL REMAIN UNLESS DIRECTED BY THE RESIDENT ENGINEER.
7. CROSSWALKS SHALL BE CONSTRUCTED 8 FEET IN WIDTH WITH A STOPBAR 4 FEET BEHIND PER TYPICAL 627(05), UNLESS NOTED ON PLANS.
8. ALL PREPARED GROUND MOUNTED SIGNS SHALL BE TYPE II GUIDE, REGULATORY, WARNING, CONFIRMATION OR ROUTE MARKER ASSEMBLY SIGNS.



KEY TO SIGNS AND PAVEMENT MARKINGS

R&R=	REMOVE AND RESET SIGN
REM=	REMOVE SIGN (AND DISPOSE)
RET=	RETAIN SIGN (IN PLACE)
REL=	RELOCATE SIGN
R&S=	REMOVE AND STACK SIGN
SL=	SINGLE SOLID LINE (Stop Line) - 18"
SSL=	SINGLE SOLID LINE (Cross Walk) - 12"
SSL=	SINGLE SOLID LINE - 4"
SBL=	SINGLE BROKEN LINE - 4"
DSL=	DOUBLE SOLID LINE - 4"
(W) =	WHITE
(Y) =	YELLOW
	white left or right arrow
XW=	CROSS WALK - 8'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30 WAY PLANS

PROJ. MANAGER	S.S.\A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	...
CHECKED-REVIEWED	AG	...	...
DESIGN2-DETAILED2	...	...	...
DESIGN3-DETAILED3	...	...	...
REVISIONS 1	...	...	...
REVISIONS 2	...	...	...
REVISIONS 3	...	...	...
REVISIONS 4	...	...	...
FIELD CHANGES	...	...	...

SIGNATURE

P.E. NUMBER

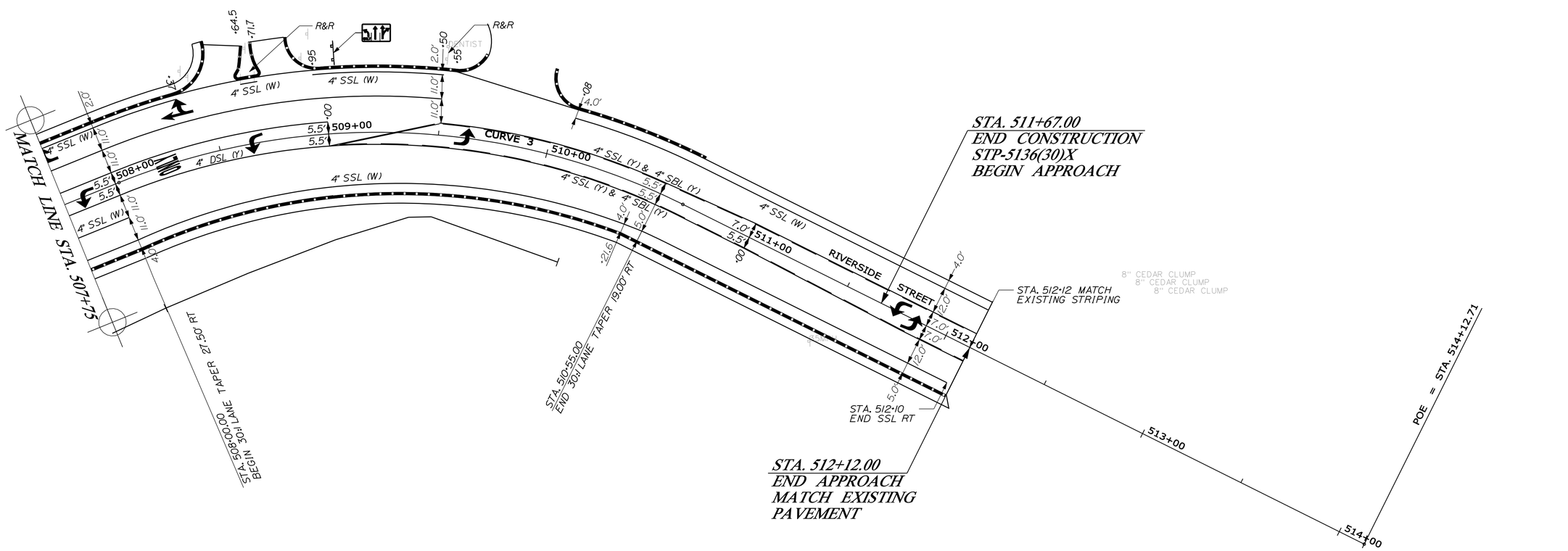
DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

PAVEMENT MARKING &
SIGNING PLANS

SHEET NUMBER
20
OF 45

Filename: ...\planset\020_PaveMark_001.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



KEY TO SIGNS AND PAVEMENT MARKINGS	
R&R=	REMOVE AND RESET SIGN
REM=	REMOVE SIGN (AND DISPOSE)
RET=	RETAIN SIGN (IN PLACE)
REL=	RELOCATE SIGN
R&S=	REMOVE AND STACK SIGN
SL=	SINGLE SOLID LINE (Stop Line) - 18"
SSL=	SINGLE SOLID LINE (Cross Walk) - 12"
SSL=	SINGLE SOLID LINE - 4"
SBL=	SINGLE BROKEN LINE - 4"
DSL=	DOUBLE SOLID LINE - 4"
(W) =	WHITE
(Y) =	YELLOW
⇦or⇨	white left or right arrow
XW=	CROSS WALK - 8'

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.\A.G.	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

PAVEMENT MARKING &
SIGNING PLANS

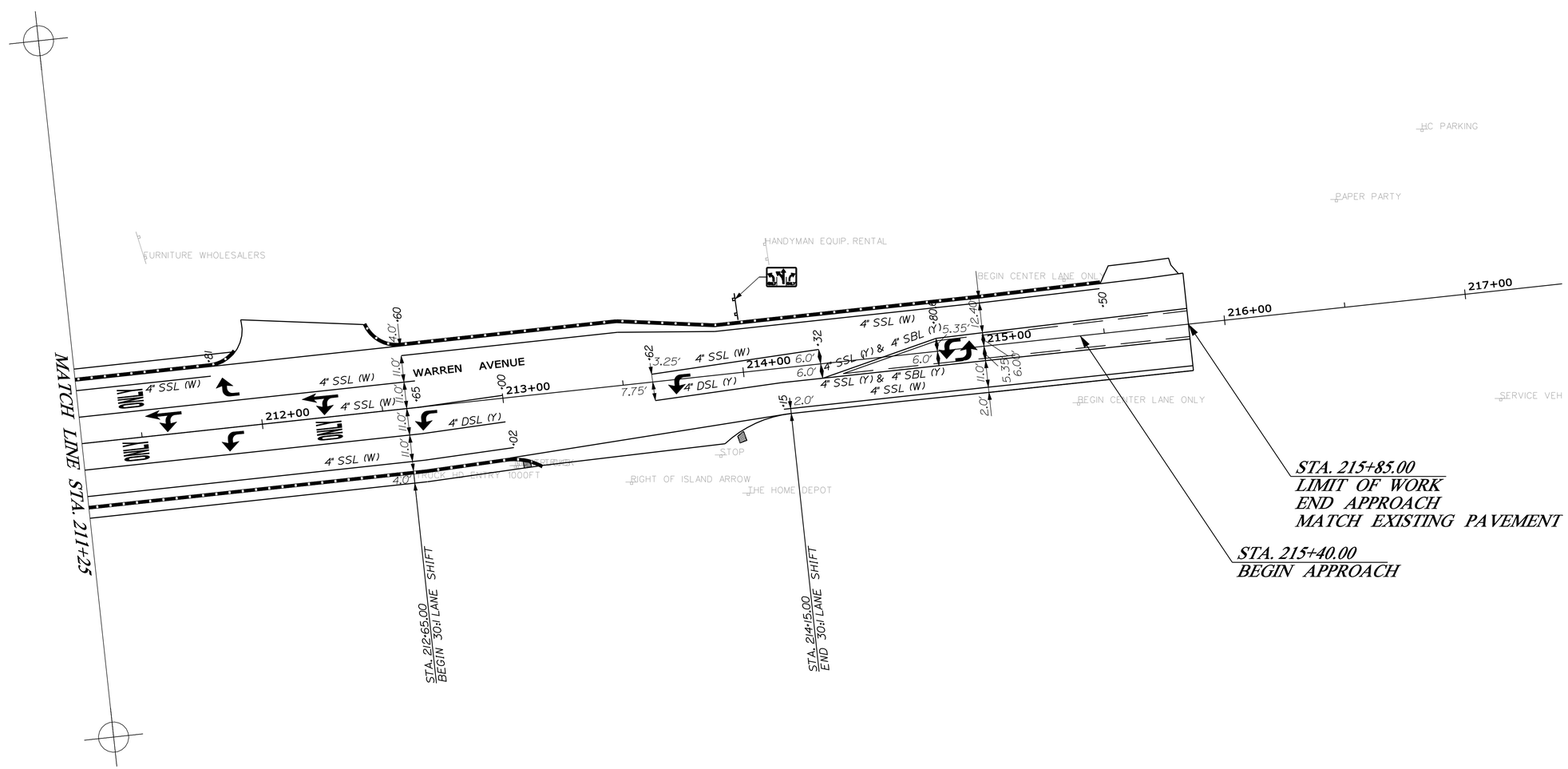
SHEET NUMBER

21

OF 45

Filename: ...\planset\021_PaveMark_002.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

KEY TO SIGNS AND PAVEMENT MARKINGS	
R&R=	REMOVE AND RESET SIGN
REM=	REMOVE SIGN (AND DISPOSE)
RET=	RETAIN SIGN (IN PLACE)
REL=	RELOCATE SIGN
R&S=	REMOVE AND STACK SIGN
SL=	SINGLE SOLID LINE (Stop Line) - 18"
SSL=	SINGLE SOLID LINE (Cross Walk) - 12"
SSL=	SINGLE SOLID LINE - 4"
SBL=	SINGLE BROKEN LINE - 4"
DSL=	DOUBLE SOLID LINE - 4"
(W) =	WHITE
(Y) =	YELLOW
	white left or right arrow
XW=	CROSS WALK - 8'



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	S.S.\A.G.		
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---		

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

PAVEMENT MARKING &
SIGNING PLANS

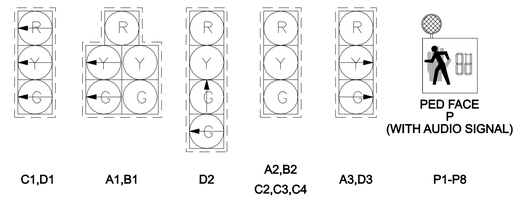
SHEET NUMBER
22
OF 45

Filename: ...\planset\022_PaveMark_004.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

SIGNAL PLAN NOTES:

1. ALL SIGNAL CONTROL EQUIPMENT SHALL BE NAZTEC BRAND PER CITY OF PORTLAND SPECIFICATIONS.
2. THE CABINET BACK PANEL, PEDESTRIAN SIGNAL HEADS, AND PUSHBUTTONS SHALL BE WIRED SUCH THAT A POTENTIAL CHANGE TO CONCURRENT PEDESTRIAN CROSSING CAN BE ACCOMPLISHED WITH MINIMAL FIELD CHANGES.
3. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE UTILITY COMPANIES WHEN INSTALLING EQUIPMENT ON OR NEAR POLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO DETERMINE THEIR REQUIREMENTS.
4. THE ELECTRICAL CONTRACTOR SHALL MAKE THE NECESSARY CONNECTIONS FOR A #6 AWG BONDING WIRE TO AN EXISTING UTILITY'S VERTICAL GROUND WIRE. IF THIS VERTICAL GROUND WIRE DOES NOT EXIST THE CONTRACTOR SHALL LEAVE ENOUGH BONDING WIRE TO REACH THE SYSTEM NEUTRAL. THE LOCAL UTILITY SHOULD BE NOTIFIED AND SHALL MAKE THAT CONNECTION.
5. THE LOCATIONS OF ALL EQUIPMENT SHOWN ARE APPROXIMATE. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION MANAGER.
6. THE COST OF POLE RISERS SHALL BE INCIDENTAL TO THE ITEM NO. 643.71.
7. THE COST OF THE R10-12 SIGNS SHALL BE INCIDENTAL TO ITEM NO. 643.71.
8. THE COST FOR REMOVAL OF THE EXISTING SPAN WIRE SIGNAL SYSTEM (COMPLETE) SHALL BE INCIDENTAL TO ITEM NO. 643.71.
9. ALL TRAFFIC SIGNAL IMPACTS DURING CONSTRUCTION SHALL BE MITIGATED BY THE CONTRACTOR. THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNAL HEADS FOR EACH CONSTRUCTION STAGE AS NEEDED. TRAFFIC SIGNAL HEADS SHALL ALIGN WITH THE CORRESPONDING TRAFFIC LANE. ALL OTHER IMPACTS, SUCH AS, BUT NOT LIMITED TO, LOOP DETECTORS SHALL ALSO BE MITIGATED. THIS WORK SHALL BE INCIDENTAL TO ITEM 652.36. ALL MITIGATION MUST BE APPROVED BY THE RESIDENT.

INDICATIONS



NOTE - ALL INDICATIONS SHALL BE 12" LIGHT EMITTING DIODES (LED'S). WITH 5" LOUVERED BACKPLATES

SIGNS

R10-3eL	R10-3eR	R10-12	R10-11
9x15	9x15	24x30	24x30
4-Proposed	4-Proposed	2-Proposed	1-Proposed

SIGNAL TIMING

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 9
MIN GREEN	4	10	5	7	4	10	0
EXTENSION	1.5	3.0	2.0	3.0	1.5	3.0	0.0
MAX 1	10	30	20	30	10	30	0
MAX 2	10	80	25	40	10	80	0
VEH CLEAR	3.5	3.5	3.5	3.5	3.5	3.5	3.0
RED CLEAR	2.5	1.5	2.5	2.5	2.5	1.5	1.0
WALK	-	-	-	-	-	-	4
PED CLEAR	-	-	-	-	-	-	22
RECALL	OFF	SOFT	OFF	OFF	OFF	SOFT	OFF

Note: Max 2 shall be programmed During Coordination.
In the event of a conflict or malfunction phases 2 and 6 shall flash yellow and all other phases shall flash red.

COORDINATION CYCLE/SPLIT/OFFSET SCHEDULE

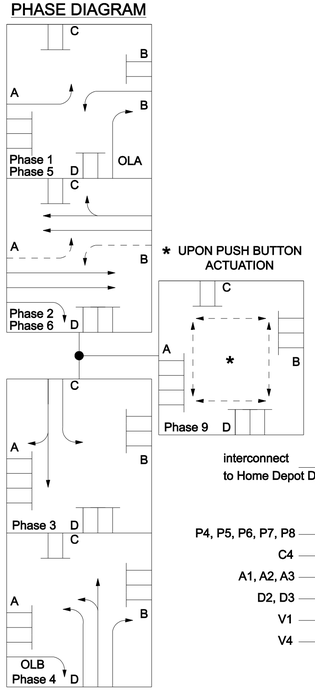
ALL ENTRIES IN SECONDS

	PLAN 1	PLAN 2	PLAN 3	PLAN 4	
CYCLE LENGTH	90	100	110	120	COORDINATION MODE SET TO FIXED FORCE-OFF
OFFSET	0	0	0	0	
SPLIT TIME Ø1	11	12	12	12	
SPLIT TIME Ø2	28	32	33	39	
SPLIT TIME Ø3	23	25	29	30	
SPLIT TIME Ø4	27	30	35	38	
SPLIT TIME Ø5	11	12	12	12	
SPLIT TIME Ø6	28	32	33	39	
SPLIT TIME Ø7	23	25	29	30	
SPLIT TIME Ø8	27	30	35	38	
SPLIT TIME Ø9	1	1	1	1	

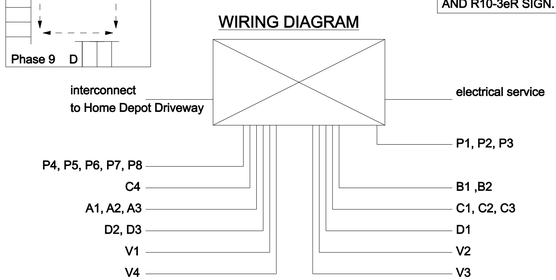
COORDINATION NOTES:

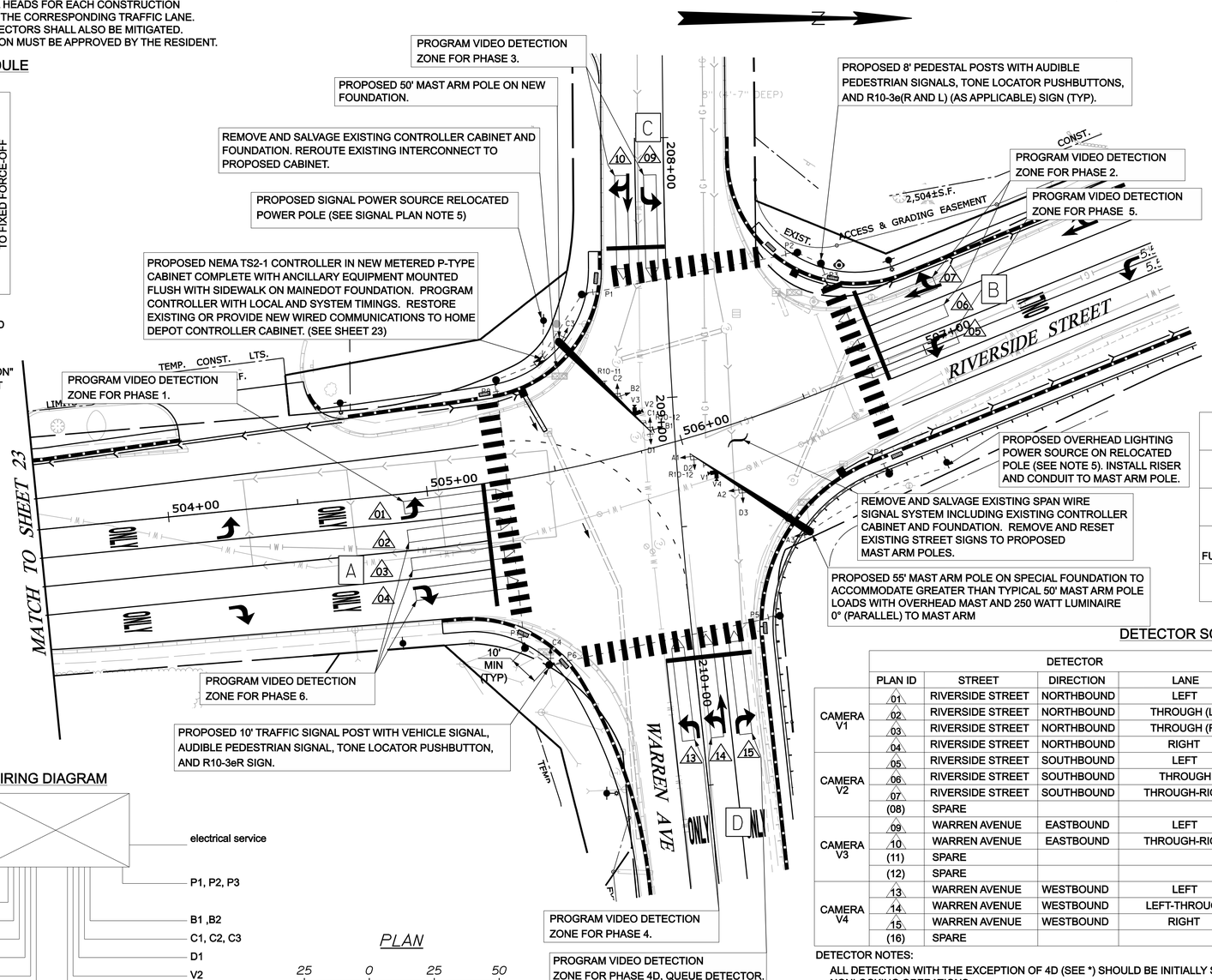
1. OFFSET IS REFERENCED TO THE END OF THE COORDINATED Ø2 & Ø6 PHASE GREEN. NTCIP REFERENCE PHASE 2.
2. COORDINATION TO BE OPERATED BY TIME-OF-DAY
3. COORDINATION MODE SHALL BE SET WITH STOP-IN-WALK "ON" TO ALLOW PED TO BE SERVED WITH THE POTENTIAL TO NOT DISRUPT COORDINATION.
4. PHASE 7 AND 8 ARE TO BE DUMMY PHASES FOR NTCIP COORDINATED PROGRAMMING

PHASE DIAGRAM



WIRING DIAGRAM





PLAN

25 0 25 50
Scale of Feet

LEGEND

- BARE METAL BASE MOUNTED CABINET WITH CONTROLLER
- BLACK PAINTED MAST ARM W/ OVERHEAD MAST AND LUMINAIRE
- BLACK PAINTED VEHICULAR HEAD
- MAST ARM MOUNTED SIGN
- VIDEO DETECTION ZONE
- BLACK PAINTED PEDESTAL POLE
- VIDEO DETECTION CAMERA
- AUDIBLE PEDESTRAIN SIGNAL HEAD PAINTED BLACK WITH PUSH BUTTON AND INFORMATIONAL SIGN
- UNDERGROUND CONDUIT
- EXISTING OVERHEAD MAST AND LUMINAIRE RELOCATED TO PROPOSED UTILITY POLE
- RELOCATED UTILITY POLE WITH OVERHEAD MAST AND LUMINAIRE (BY OTHERS, SEE GENERAL PLAN)

DAILY & WEEKLY COORDINATION PROGRAM

	MON.-FRI.	SATURDAY	SUNDAY
PLAN 1 90 SECS AM PEAK / OFFPEAK	0645-1045 1800-2100	0745-1100 1500-2000	0845-1100 1700-2000
PLAN 2 100 SECS MIDDAY / WEEKEND	1045-1530	1100-1500	1100-1700
PLAN 3 110/55 SECS PM PEAK	1530-1800	-	-
PLAN 4 120/60 SECS FUTURE WHEN WARRANTED	-	-	-
PLAN 5 LATE NIGHT FREE OPERATIONS	0000-0645 2100-2400	0000-0745 2000-2400	0000-0845 2000-2400

DETECTOR SCHEDULE

	DETECTOR					VIDEO DETECTOR CARD			
	PLAN ID	STREET	DIRECTION	LANE	Ø	TYPE	SLOT NO.	DETECTOR NO.	CHANNEL
CAMERA V1	01	RIVERSIDE STREET	NORTHBOUND	LEFT	1	VIDEO	2	1/1	1
	02	RIVERSIDE STREET	NORTHBOUND	THROUGH (L)	6	VIDEO	2	1/2	2
	03	RIVERSIDE STREET	NORTHBOUND	THROUGH (R)	6	VIDEO	2	1/3	3
	04	RIVERSIDE STREET	NORTHBOUND	RIGHT	6	VIDEO	2	1/4	4
CAMERA V2	05	RIVERSIDE STREET	SOUTHBOUND	LEFT	5	VIDEO	4	2/1	1
	06	RIVERSIDE STREET	SOUTHBOUND	THROUGH	2	VIDEO	4	2/2	2
	07	RIVERSIDE STREET	SOUTHBOUND	THROUGH-RIGHT	2	VIDEO	4	2/3	3
	(08)	SPARE				SPARE	4	2/4	4
CAMERA V3	09	WARREN AVENUE	EASTBOUND	LEFT	3	VIDEO	6	3/1	1
	10	WARREN AVENUE	EASTBOUND	THROUGH-RIGHT	3	VIDEO	6	3/2	2
	(11)	SPARE				SPARE	6	3/3	3
	(12)	SPARE				SPARE	6	3/4	4
CAMERA V4	13	WARREN AVENUE	WESTBOUND	LEFT	4	VIDEO	8	4/1	1
	14	WARREN AVENUE	WESTBOUND	LEFT-THROUGH	4	VIDEO	8	4/2	2
	15	WARREN AVENUE	WESTBOUND	RIGHT	4D*	VIDEO	8	4/3	3
	(16)	SPARE				SPARE	8	4/4	4

DETECTOR NOTES:

ALL DETECTION WITH THE EXCEPTION OF 4D (SEE *) SHOULD BE INITIALLY SET TO CALL AND EXTEND WITH ADDED INITIAL NONLOCKING OPERATIONS.

* - WESTBOUND RIGHT-TURN LANE FROM WARREN AVENUE SHALL BE SET IN THE CONTROLLER AS A QUEUE DETECTOR WITH A 5-SECOND DELAY. DETECTOR (QUEUE) SHALL ONLY BE ACTIVE FOR 12 SECONDS FOLLOWING THE INITIATION OF THE PHASE 4 INTERVAL.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

SIGNAL PLANS

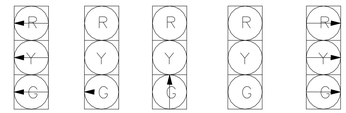
SHEET NUMBER
23
OF 45

Filename: ...\te\planset\023_SIGNAL_001.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

SIGNAL PLAN NOTES:

1. ALL SIGNAL CONTROL EQUIPMENT SHALL BE NAZTEC BRAND PER CITY OF PORTLAND SPECIFICATIONS.
2. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE UTILITY COMPANIES WHEN INSTALLING EQUIPMENT ON OR NEAR POLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO DETERMINE THEIR REQUIREMENTS.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY CONNECTIONS FOR #6 AWG BONDING WIRE TO AN EXISTING UTILITY'S VERTICAL GROUND WIRE. IF THIS VERTICAL GROUND WIRE DOES NOT EXIST THE CONTRACTOR SHALL LEAVE ENOUGH BONDING WIRE TO REACH THE SYSTEM NEUTRAL. THE LOCAL UTILITY SHOULD BE NOTIFIED AND SHALL MAKE THAT CONNECTION.
4. THE LOCATIONS OF ALL EXISTING EQUIPMENT SHOWN ARE APPROXIMATE.
5. FOUNDATIONS:
   IN LIEU OF INSTALLING NEW CONTROLLER CABINET FOUNDATION WITH NEW, EXTENDED OR MODIFIED CONDUIT CONNECTIONS TO THE EXISTING SIGNAL SYSTEM, THE CONTRACTOR MAY AT HIS DISCRETION AND UPON APPROVAL BY THE ENGINEER FORM AND POUR A NEW CONTROLLER CABINET FOUNDATION SUITABLE TO ACCOMMODATE A P-TYPE CABINET AROUND THE EXISTING CONTROLLER FOUNDATION. IF THIS OPTION IS CHOSEN, THE CONTRACTOR MUST MEET THE FOLLOWING CONDITIONS:
   1. MINIMUM 6-INCHES ON THE VERTICAL FACES AND 4-INCHES OF NEW CONCRETE ON TOP ABOVE THE OLD CONCRETE. THIS MAY MEAN CHIPPING DOWN A FEW OF INCHES OF OLD CONCRETE.
   2. EXISTING ANCHOR BOLTS MUST BE CUT BELOW THE NEW FINISHED TOP SURFACE.
   3. NEW ANCHOR BOLTS SHALL BE DRILLED INTO THE NEW CONCRETE FOUNDATION.
   4. STRENGTHEN THE NEW CONCRETE JACKET WITH ADEQUATE REINFORCEMENT, FOLLOWING STANDARD DETAILS FOR NEW CONCRETE INSTALLATION.

EXISTING INDICATIONS
(TO BE RETAINIED)



C2 | D1,D2 | B1 | A1,A2,A3 B2,B3,D3 | C1,D4

NOTE - ALL INDICATIONS SHALL BE 12" LIGHT EMITTING DIODES (LED'S).

EXISTING OVERHEAD SIGN
(TO BE RETAINIED)

R3-2
24x30
1-Existing

SIGNAL TIMING

	PHASE 2	PHASE 3	PHASE 4	PHASE 6
MIN GREEN	10	4	5	10
EXTENSION	3.0	3.0	3.0	3.0
MAX 1	30	15	20	30
MAX 2	80	15	20	80
VEH CLEAR	3.5	3.5	3.5	3.5
RED CLEAR	1.5	1.5	1.5	1.5
WALK	-	-	-	-
PED CLEAR	-	-	-	-
RECALL	SOFT	OFF	OFF	SOFT

Note: Max 2 shall be programmed during coordination.
In the event of a conflict or malfunction phase1 flashes yellow and all other phases shall flash red.

LEGEND

- PROPOSED BARE METAL BASE MOUNTED CABINET WITH CONTROLLER
- EXISTING MAST ARM
- EXISTING VEHICULAR HEAD
- EXISTING MAST ARM MOUNTED SIGN
- PROPOSED WIRE LOOP DETECTOR
- EXISTING PEDESTAL POLE
- YAGI ANTENNA

COORDINATION CYCLE/SPLIT/OFFSET SCHEDULE
ALL ENTRIES IN SECONDS

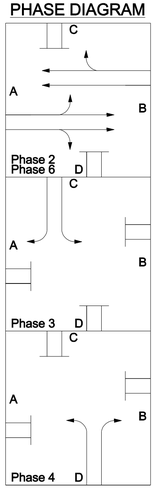
	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	90	100	55	60
OFFSET	9	10	8	10
SPLIT TIME Ø1	0	0	0	0
SPLIT TIME Ø2	55	65	28	33
SPLIT TIME Ø3	15	15	12	12
SPLIT TIME Ø4	20	20	15	15
SPLIT TIME Ø5	0	0	0	0
SPLIT TIME Ø6	55	65	28	33
SPLIT TIME Ø7	0	0	0	0
SPLIT TIME Ø8	35	35	27	27

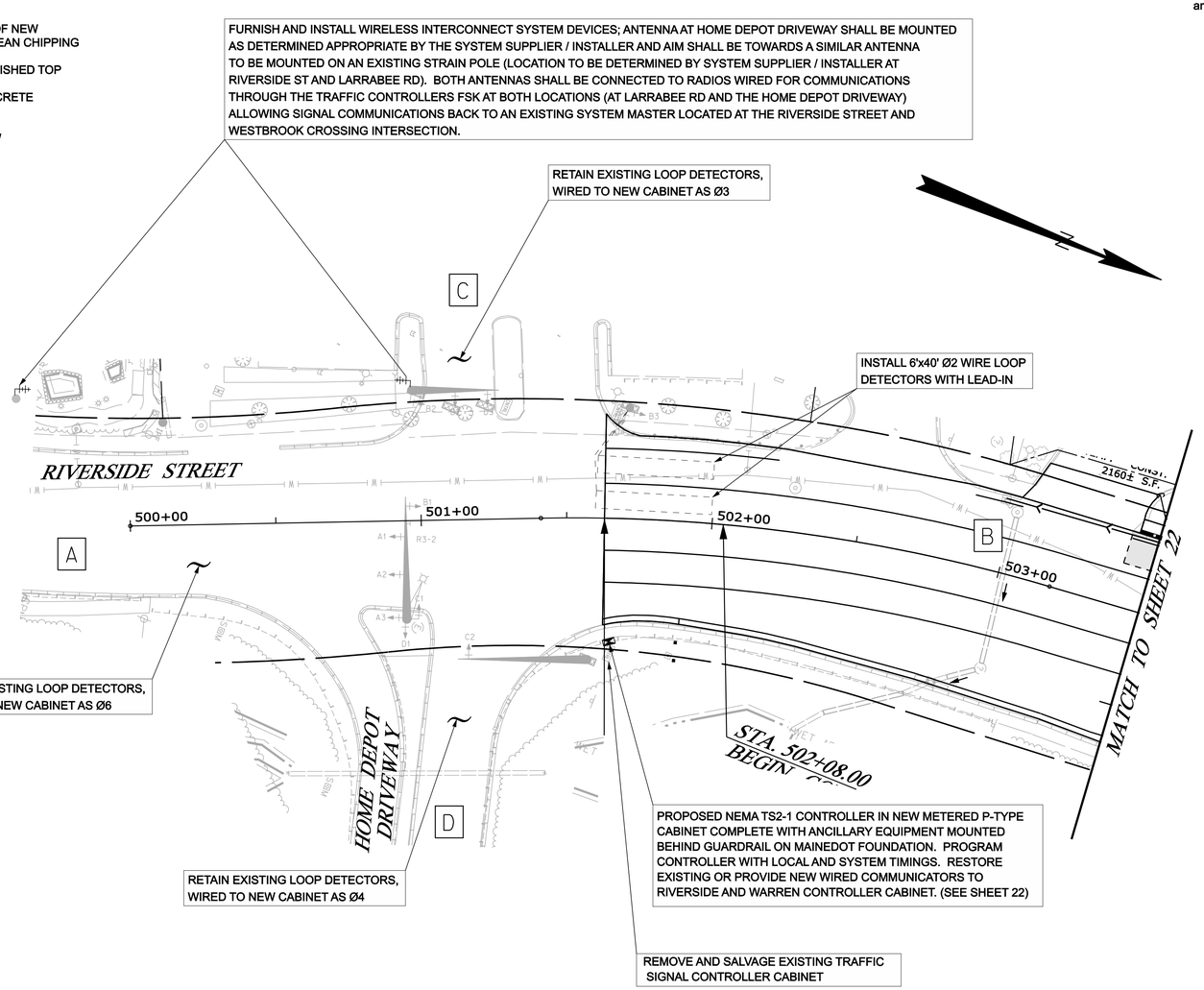
COORDINATION MODE SET TO FIXED FORCE-OFF

COORDINATION NOTES:

1. OFFSET IS REFERENCED TO THE END OF THE COORDINATED Ø2 & Ø6 PHASE GREEN. NTCIP REFERENCE PHASE 2.
2. COORDINATION TO BE OPERATED BY TIME-OF-DAY
3. PHASE TO BE A DUMMY PHASE FOR NTCIP COORDINATED PROGRAMMING.

PHASE DIAGRAM





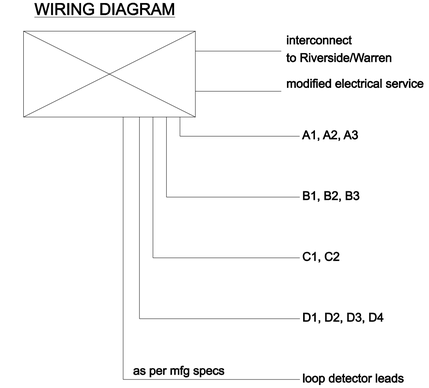
PLAN

25 0 25 50
Scale of Feet

DAILY & WEEKLY COORDINATION PROGRAM

	MON.-FRI.	SATURDAY	SUNDAY
PLAN 1 90 SECS AM PEAK / OFFPEAK	0645-1045 1800-2100	0745-1100 1500-2000	0845-1100 1700-2000
PLAN 2 100 SECS MIDDAY / WEEKEND	1045-1530	1100-1500	1100-1700
PLAN 3 110/55 SECS PM PEAK	1530-1800	-	-
PLAN 4 120/60 SECS FUTURE WHEN WARRANTED	-	-	-
PLAN 5 LATE NIGHT FREE OPERATIONS	0000-0645 2100-2400	0000-0745 2000-2400	0000-0845 2000-2400

WIRING DIAGRAM



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
S.S.-A.G.			
PROJ. MANAGER		MGS	---
DESIGN-DETAILED	LCG		
CHECKED-REVIEWED	AG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

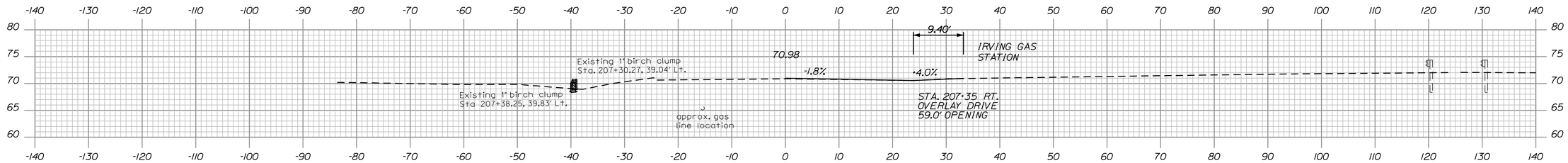
DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

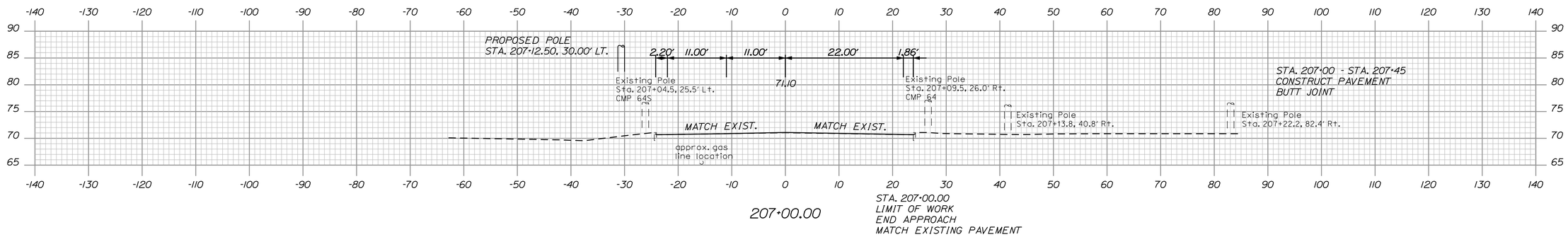
SIGNAL PLANS

SHEET NUMBER
24
OF 45

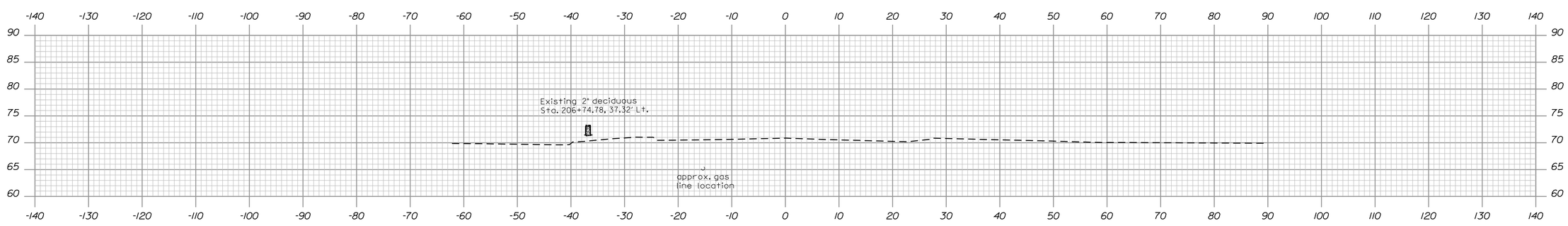
Filename: ...\te\plonset\024_SIGNAL_002.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



207+35.00



207+00.00



206+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	
CHECKED-REVIEWED	AG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

S.S.V.A.G.

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

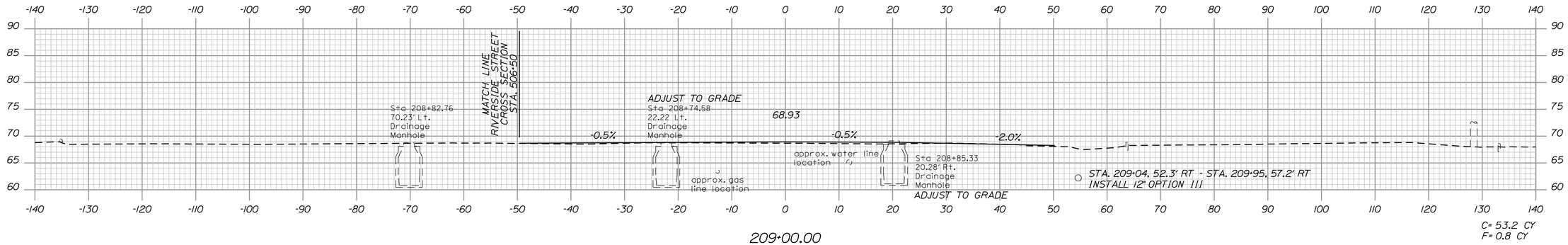
SHEET NUMBER

25

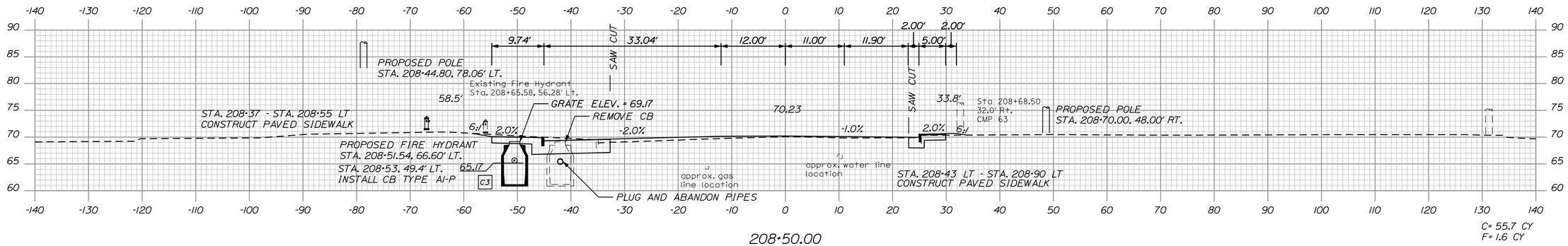
OF 45

Filename: ...\te\planset\025_20650_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

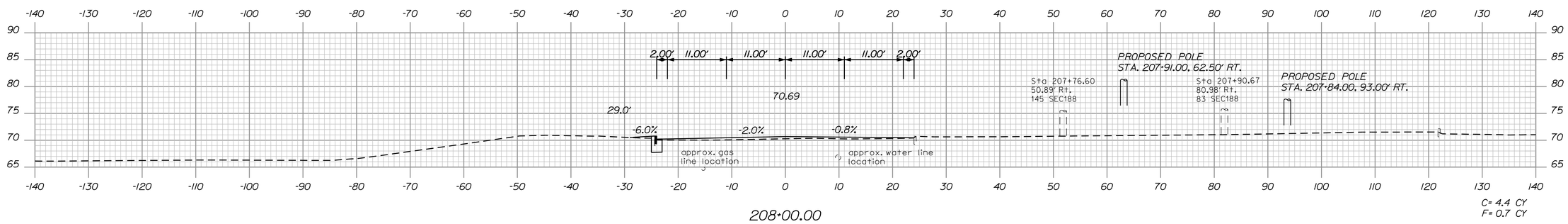
Sta. 206+50.00 to Sta. 207+35.00



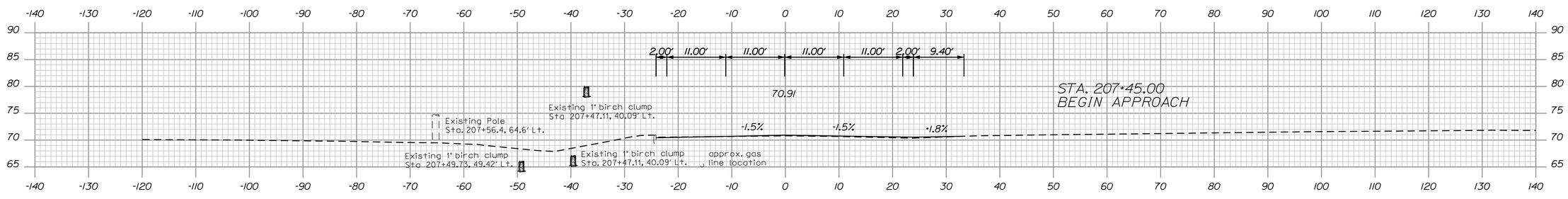
209+00.00



208+50.00



208+00.00



207+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.\A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

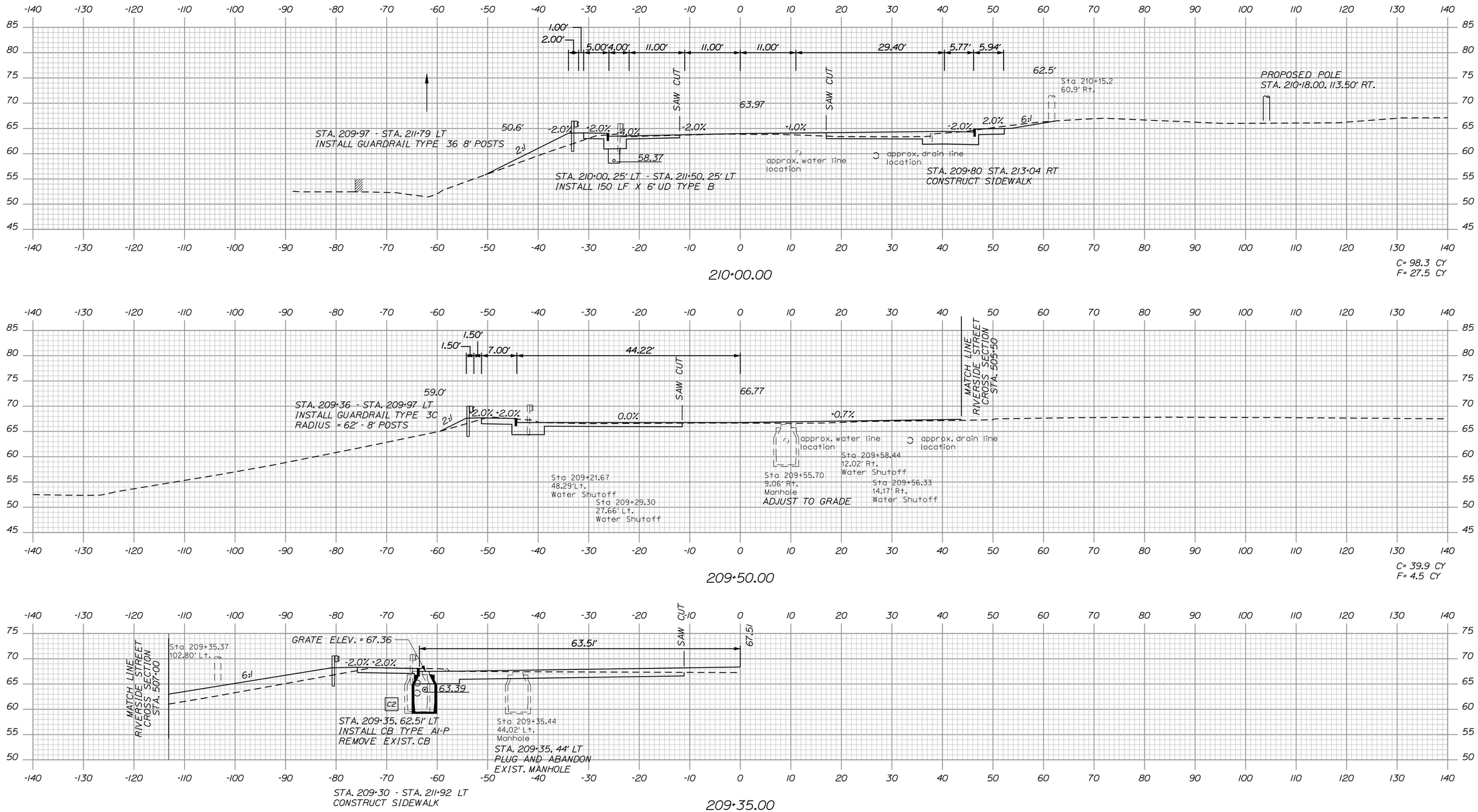
PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

SHEET NUMBER
26
OF 45

Sta. 207+50.00 to Sta. 209+00.00

Filename: ...\te\planset\026_20750_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	S.S.\A.G.		
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

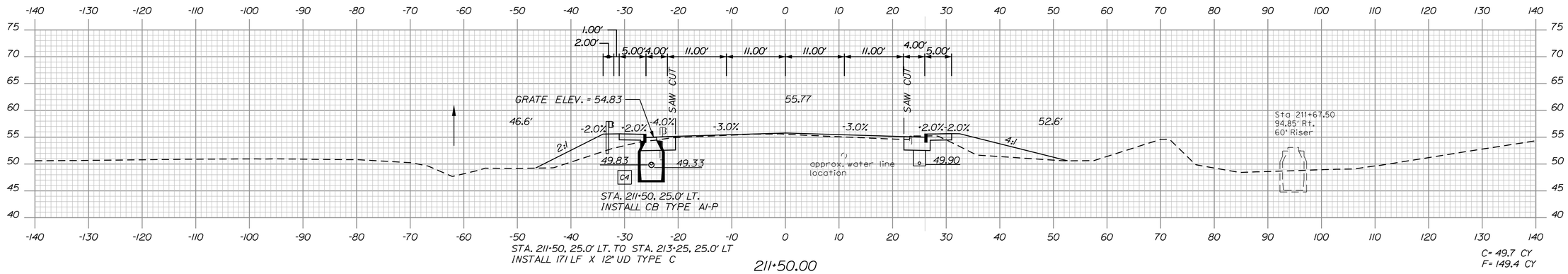
PORTLAND
WARREN AVE.\RIVERSIDE ST.

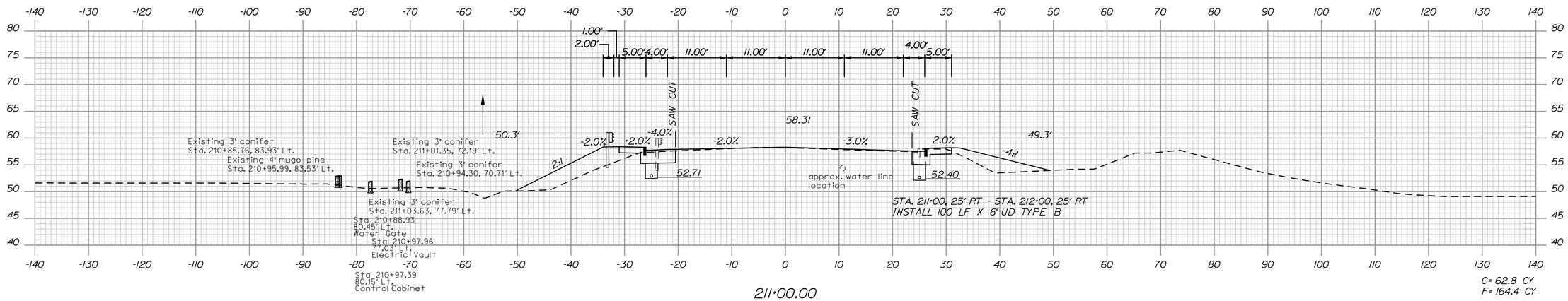
CROSS SECTIONS

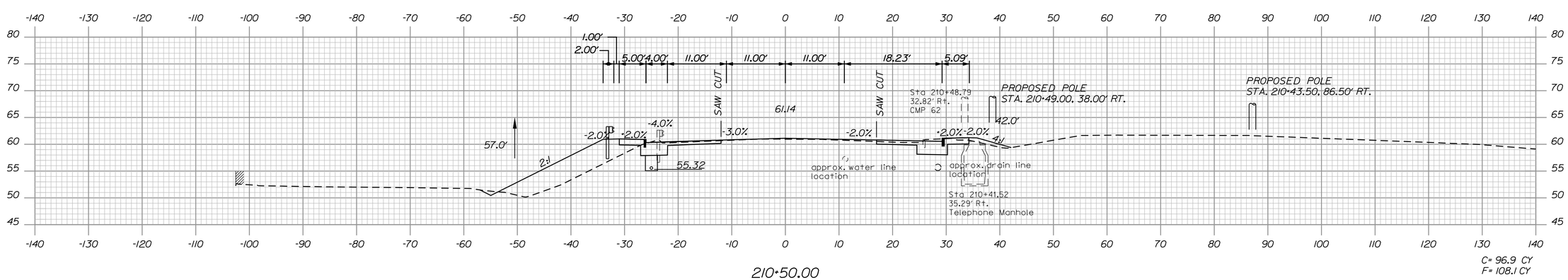
SHEET NUMBER
27
OF 45

Sta. 209+35.00 to Sta. 210+00.00

Filename: ...\te\planset\027_20935_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER		S.S.\A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	...	...
CHECKED-REVIEWED	AG	...	...	...
DESIGN2-DETAILED2	...	...	...	...
DESIGN3-DETAILED3	...	...	...	...
REVISIONS 1	...			...
REVISIONS 2	...			...
REVISIONS 3	...			...
REVISIONS 4	...			...
FIELD CHANGES	...			...

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

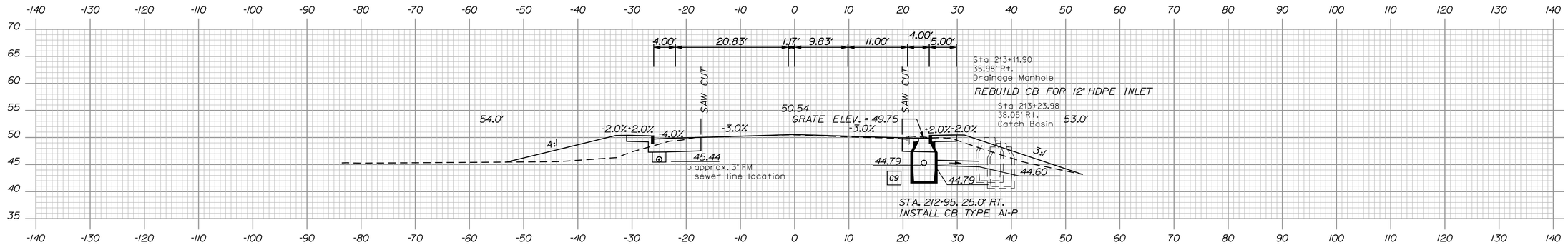
SHEET NUMBER

28

OF 45

Sta. 210+50.00 to Sta. 211+50.00

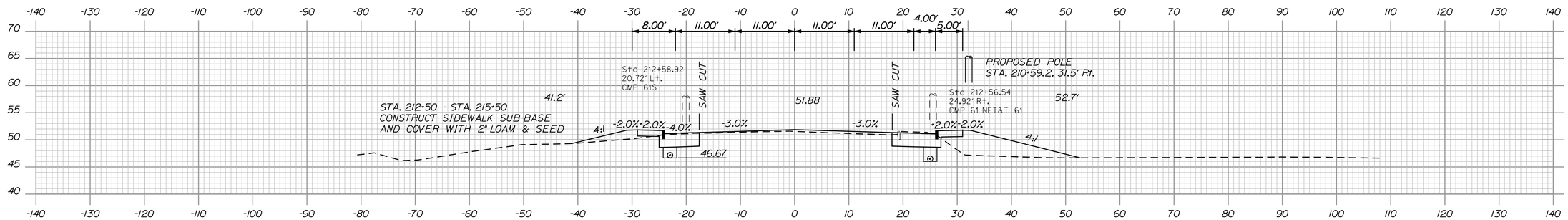
Filename: ...\te\planset\028_21050_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



213+00.00

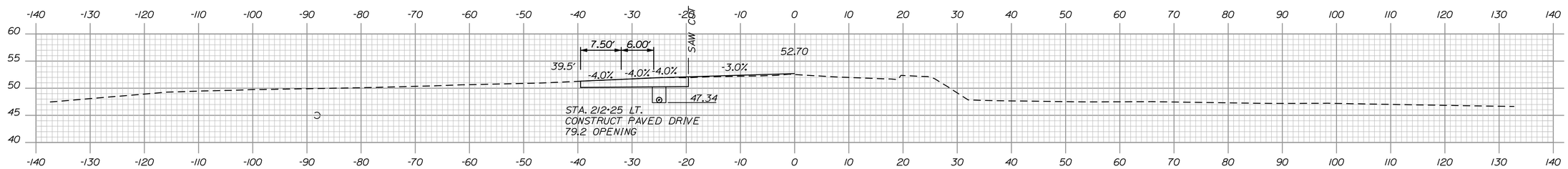
STA. 212+95, 25.0' RT TO STA. 213+12, 36.0' RT
INSTALL 14 LF X 12" HDPE

C= 71.7 CY
F= 144.2 CY

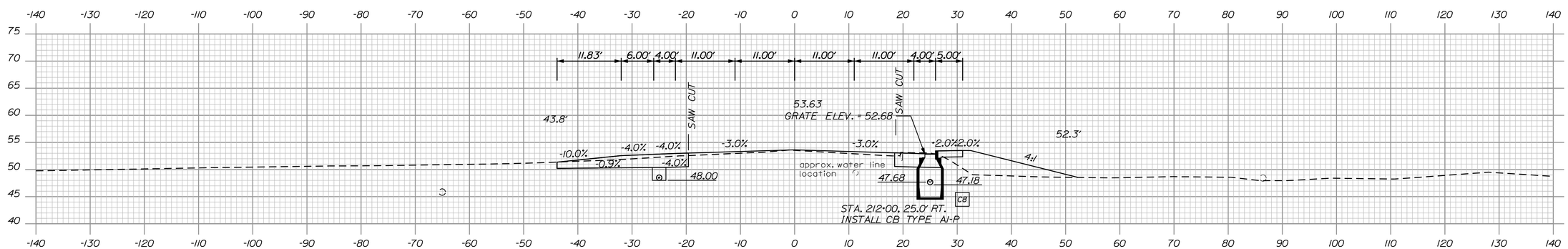


212+50.00

C= 93.4 CY
F= 117.5 CY



212+25.00



212+00.00

STA. 212+00, 25.0' RT. TO STA. 212+95, 25.0' RT.
INSTALL 91 LF X 12" UD TYPE C

C= 80.9 CY
F= 119.9 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.\A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

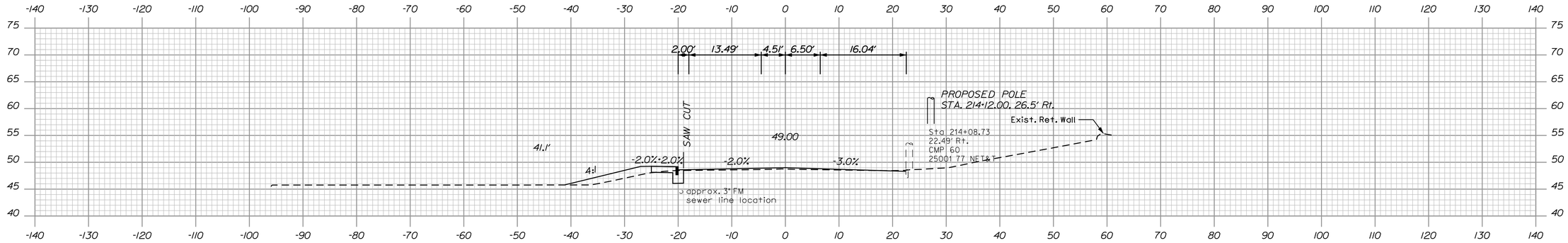
SHEET NUMBER

29

OF 45

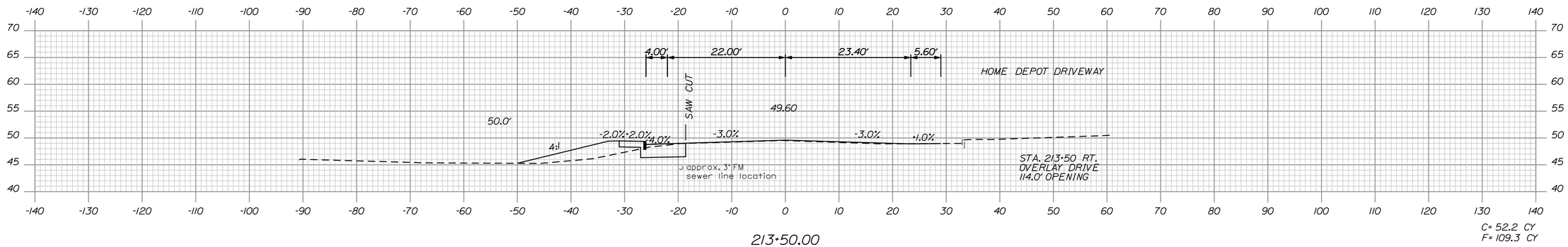
Sta. 212+00.00 to Sta. 213+00.00

Filename: ...\te\planset\029_21200_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



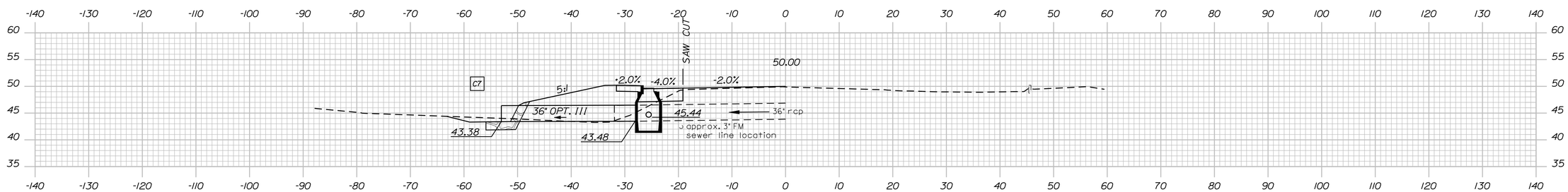
214+00.00

C= 23.4 CY
F= 50.0 CY



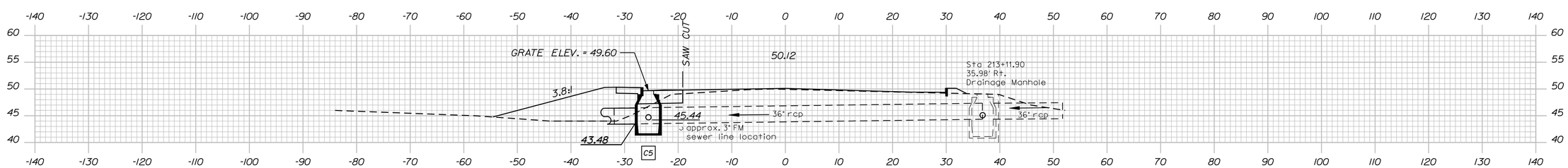
213+50.00

C= 52.2 CY
F= 109.3 CY



STA. 213+24.86, 25.74' LT TO STA. 213+23.00, 50.61' LT
INSTALL 25 LF X 36" OPTION III
REMOVE 9 LF X 36 EXISTING CMP
CONSTRUCT RIPRAP APRON

213+25.86



213+19.56 (SKEWED)

STA. 213+25.86, 25.0' LT.
INSTALL CB TYPE AI-P

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.-A.C.	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	
CHECKED-REVIEWED	AG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

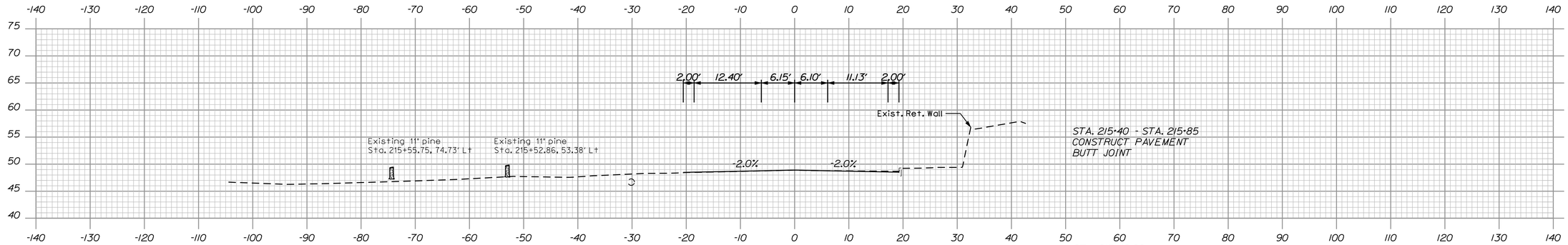
PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

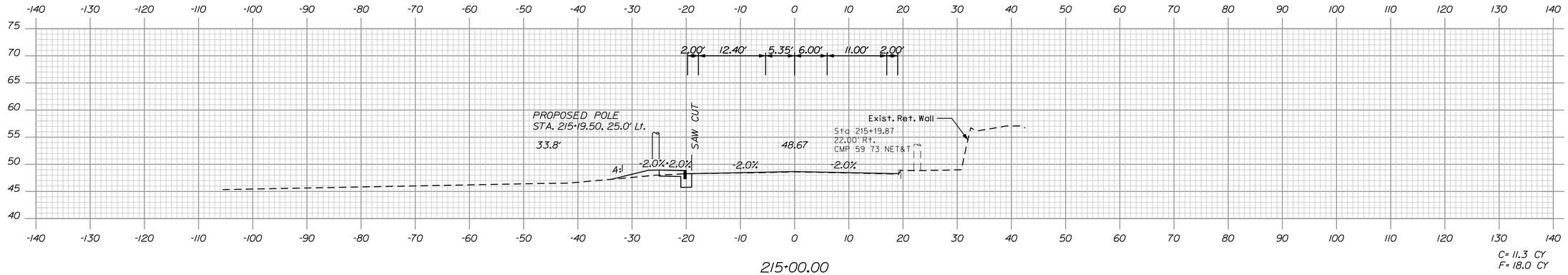
SHEET NUMBER
30
OF 45

Sta. 213+19.56 to Sta. 214+00.00

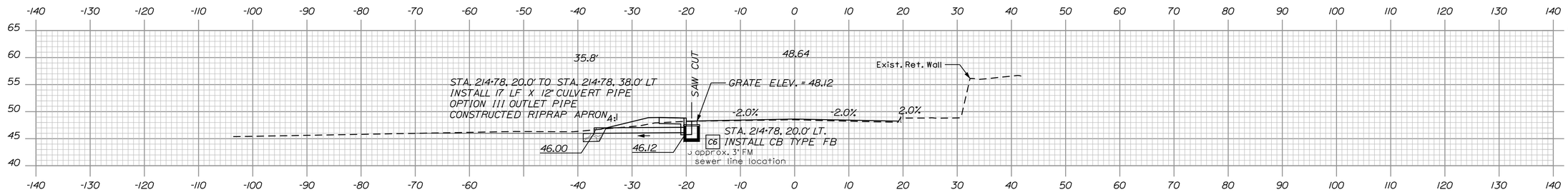
Filename: ...\te\planset\030_21319_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



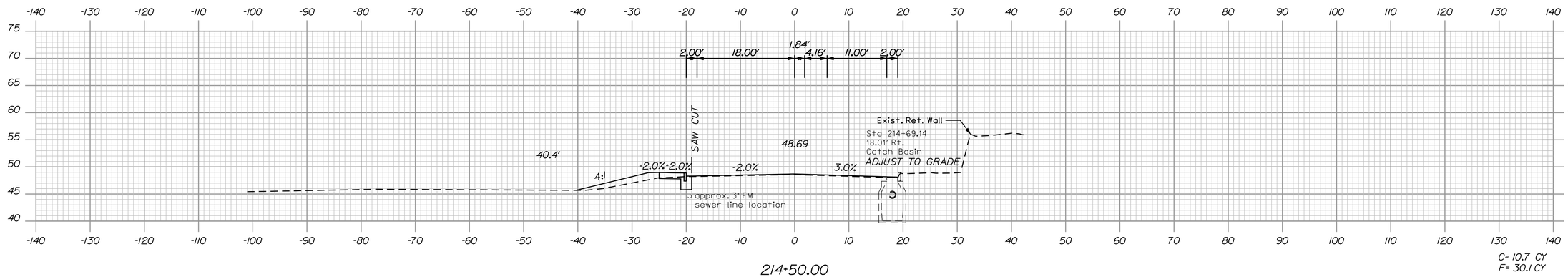
215+50.00



215+00.00



214+78.00



214+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-A.C.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

SHEET NUMBER

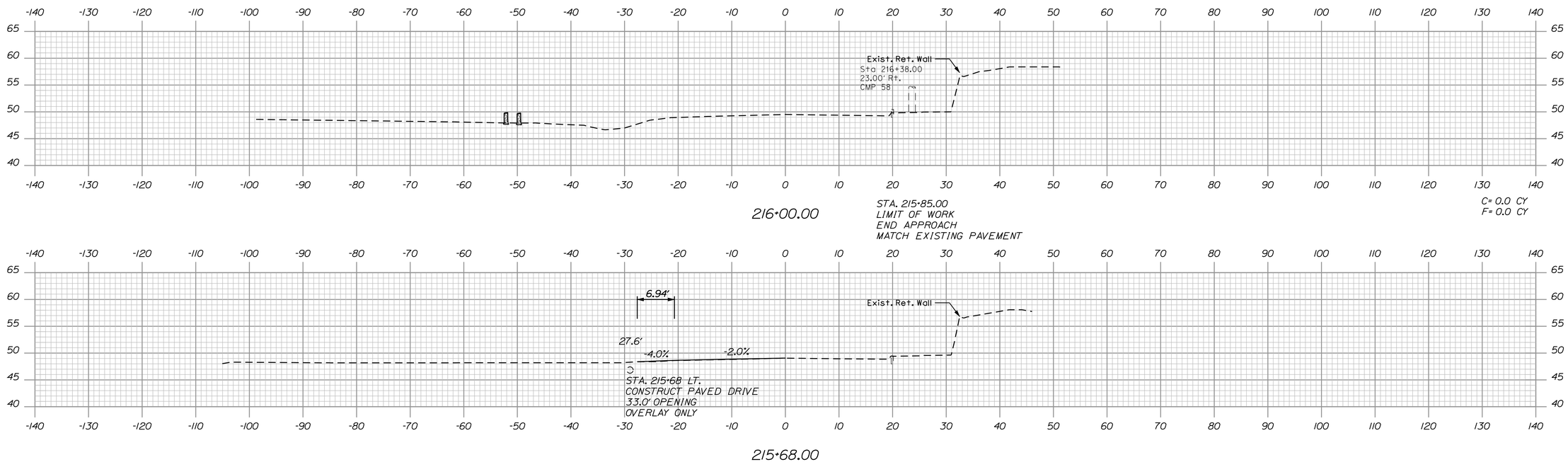
31

OF 45

Sta. 214+50.00 to Sta. 215+50.00

Filename: ...\te\planset\031_21450_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

Filename: ...\te\planset\032_21568_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



PROJ. MANAGER	S.S.-M.C.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
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-5136(30)X

PIN
PIN 5136.30

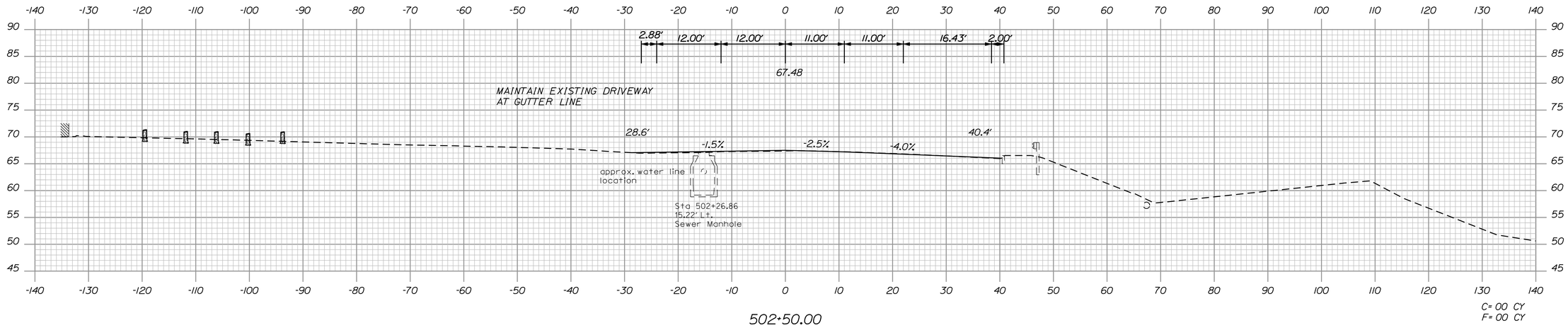
HIGHWAY PLANS

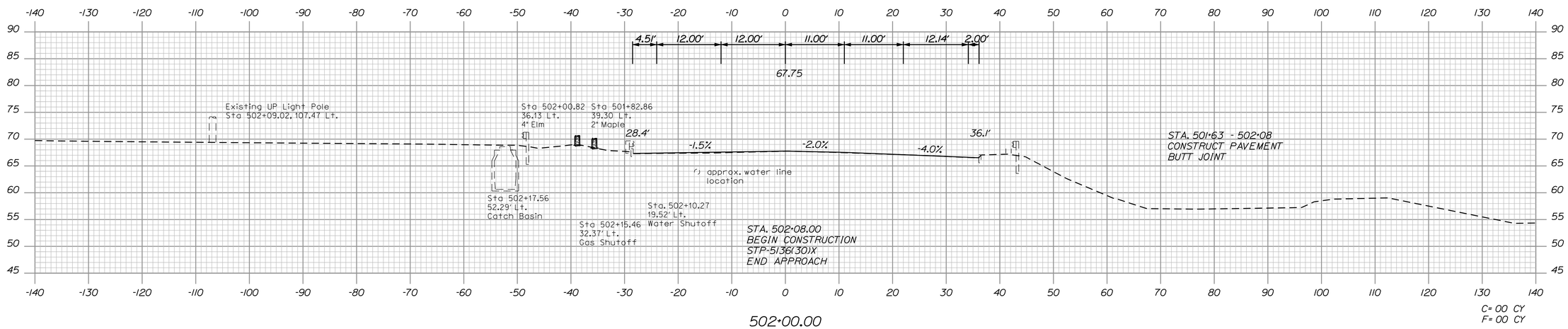
PORTLAND
WARREN AVE.\RIVERSIDE ST.

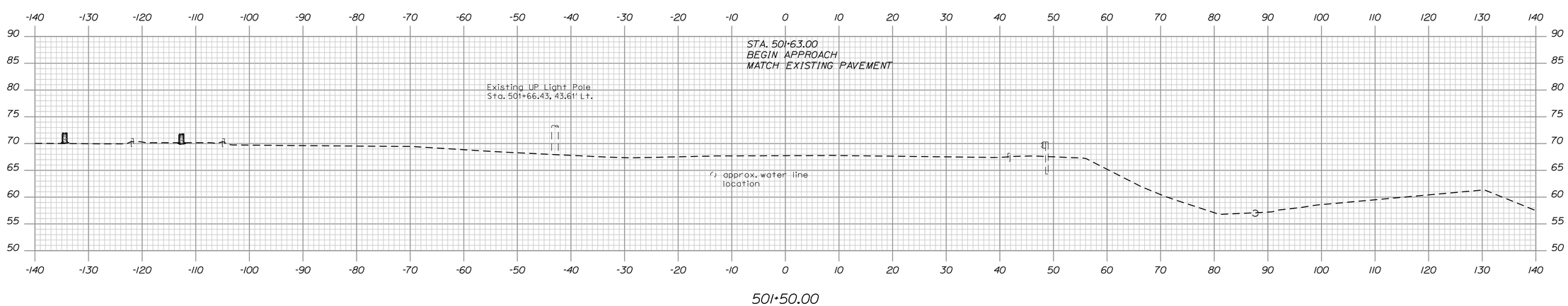
CROSS SECTIONS

SHEET NUMBER
32
OF 45

Sta. 215+68.00 to Sta. 216+00.00







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER		
DESIGN-DETAILED	LCG	
CHECKED-REVIEWED	AG	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

S.S.\A.G.: MGS

SIGNATURE

P.E. NUMBER

DATE

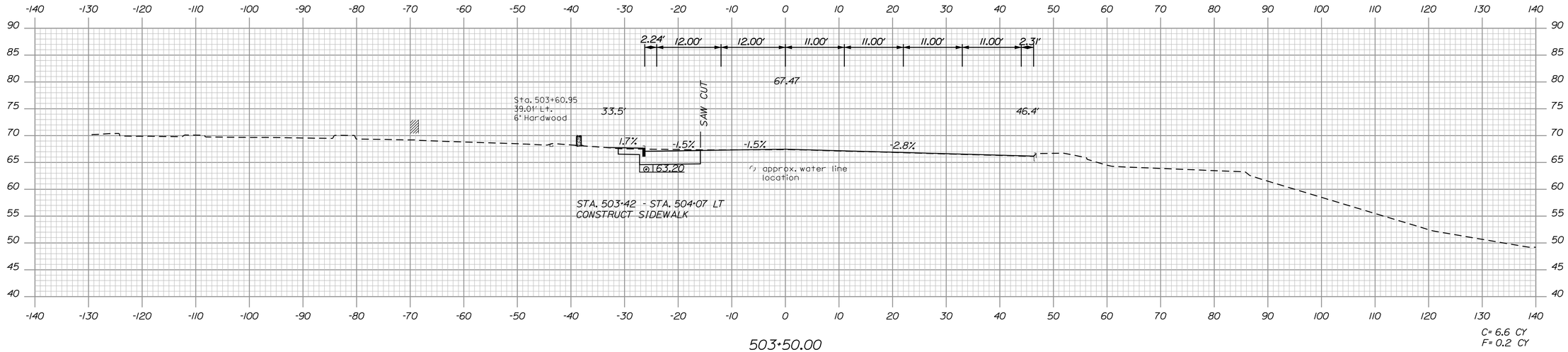
PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

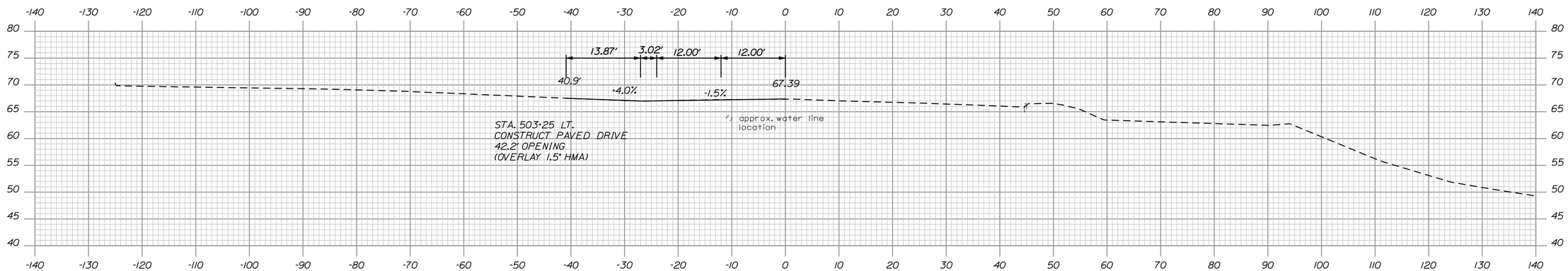
SHEET NUMBER
33
OF 45

Sta. 501+50.00 to Sta. 502+50.00

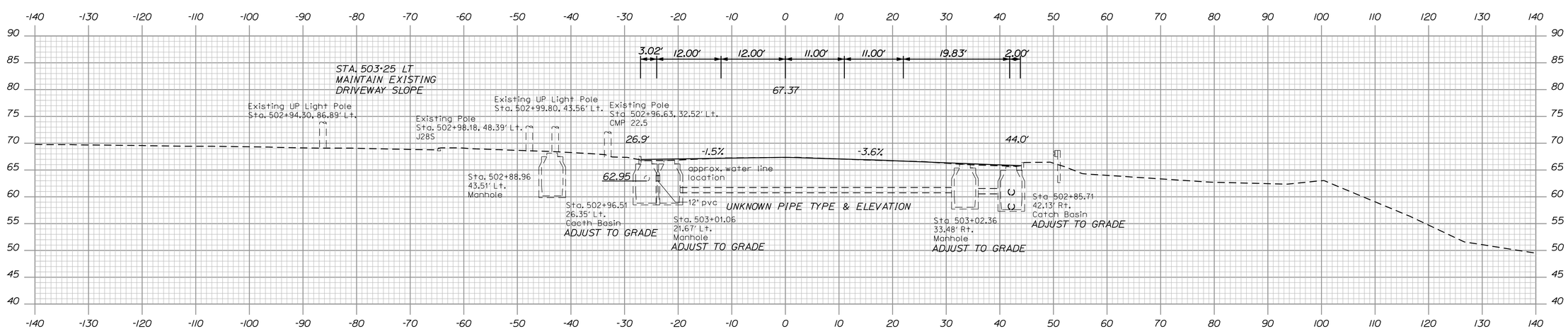
Filename: ...\te\planset\033_50150_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



503+50.00



503+25.00



503+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-M.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---		---
REVISIONS 2	---		---
REVISIONS 3	---		---
REVISIONS 4	---		---
FIELD CHANGES	---		---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

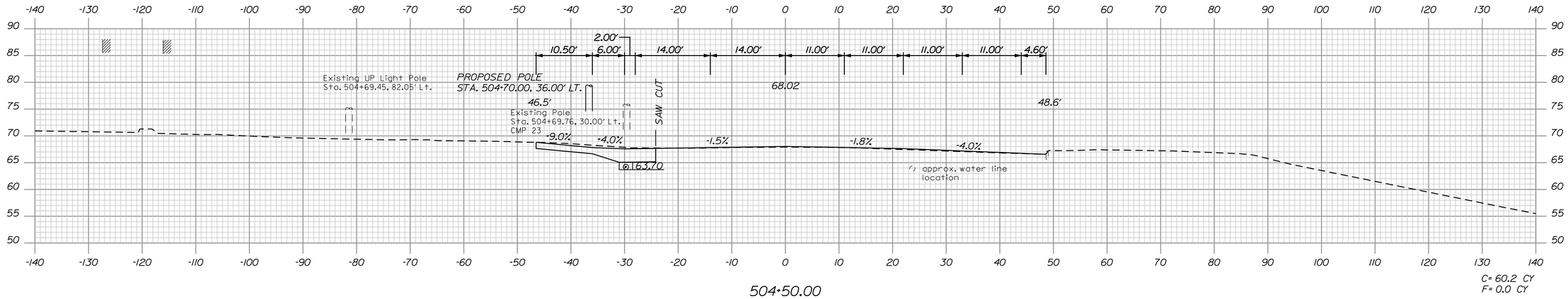
SHEET NUMBER

34

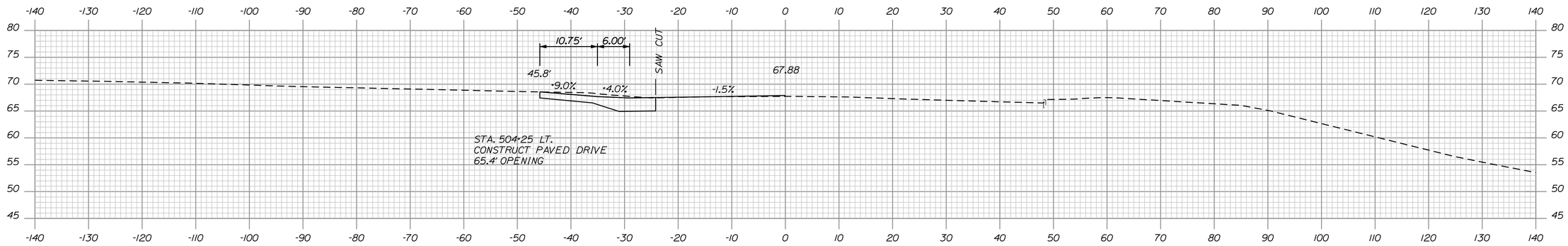
OF 45

Filename: ...\te\plonset\034_50300_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

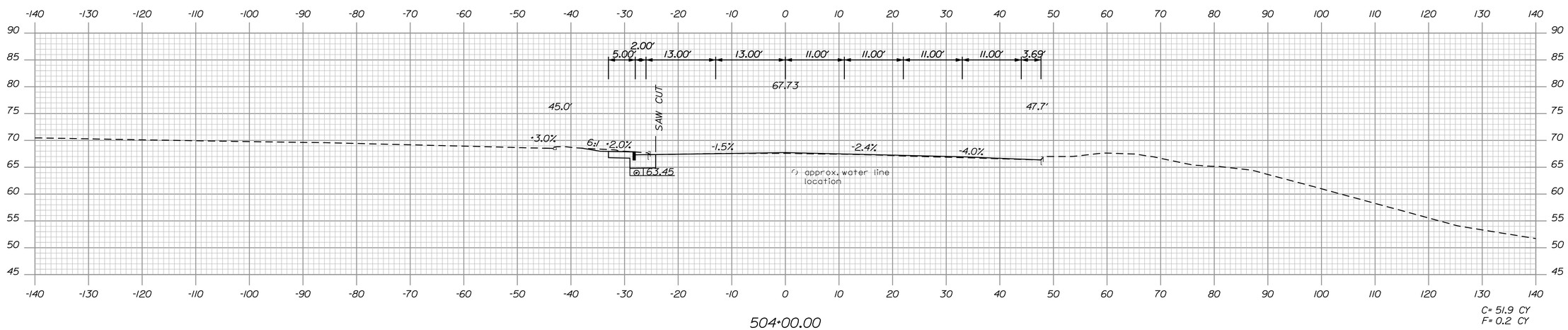
Sta. 503+00.00 to Sta. 503+50.00



504+50.00



504+25.00



504+00.00

Filename: ...\te\planset\035_50400_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	S.S.V.A.G.		
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

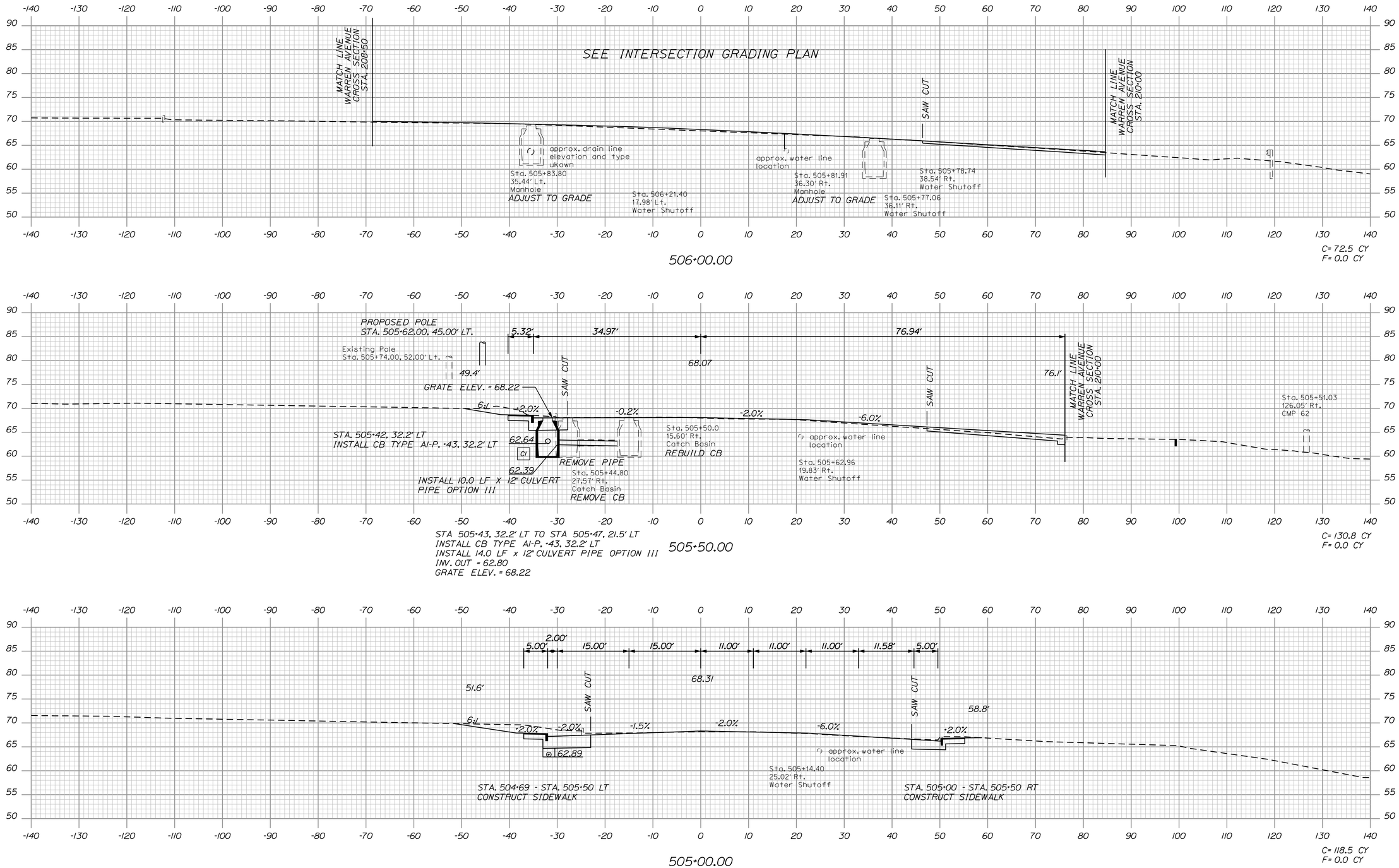
CROSS SECTIONS

SHEET NUMBER

35

OF 45

Sta. 504+00.00 to Sta. 504+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	S.S.\A.G.		
DESIGN-DETAILED	LCG	MGS	
CHECKED-REVIEWED	AG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

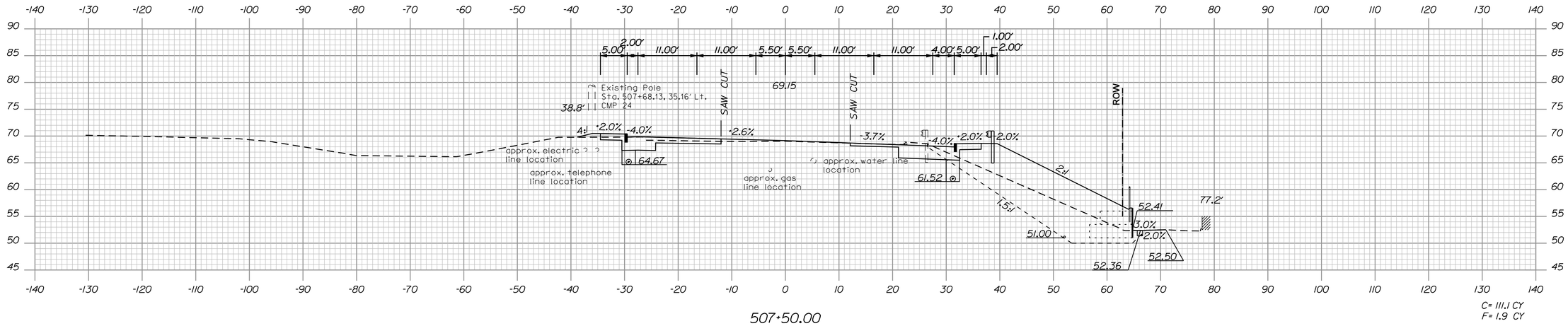
PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

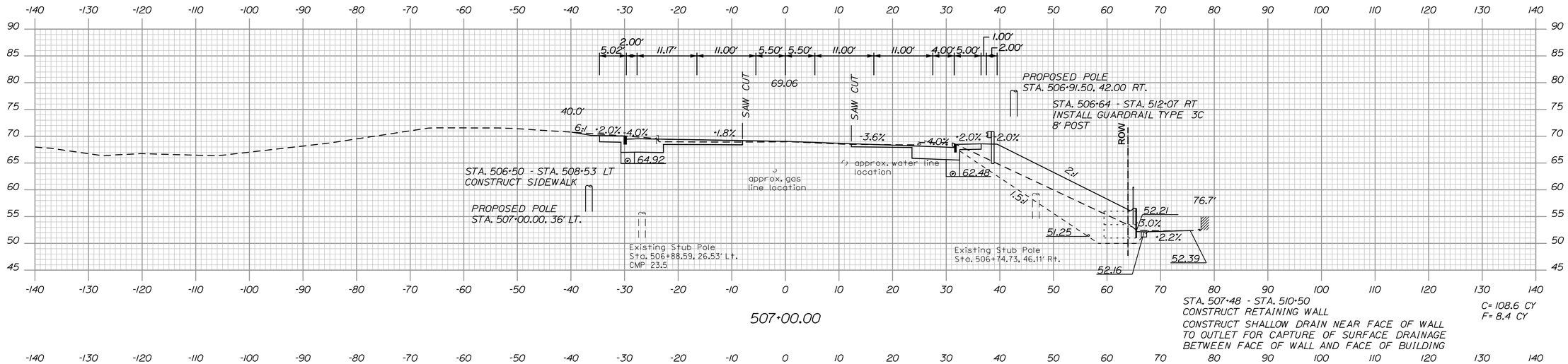
SHEET NUMBER
36
OF 45

Sta. 505+00.00 to Sta. 506+00.00

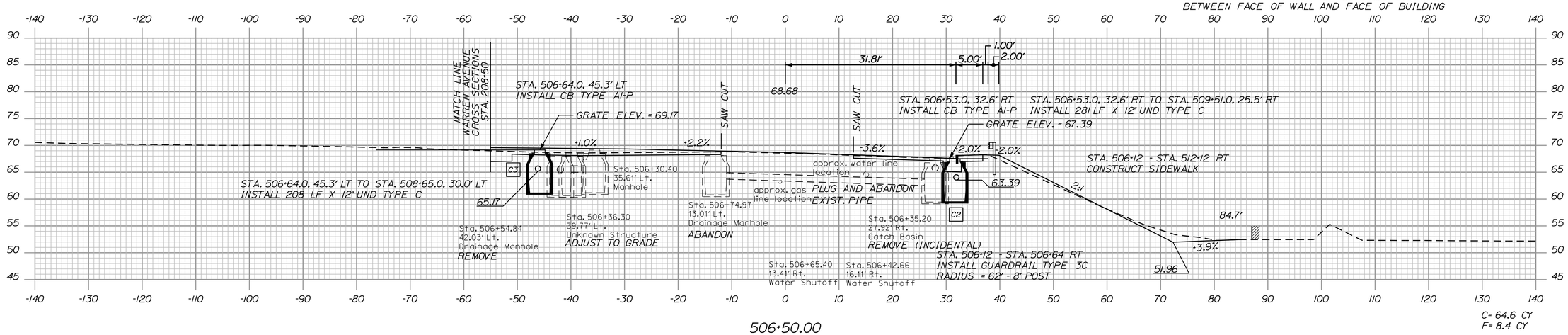
Filename: ...\te\planset\036_50500_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



507+50.00



507+00.00



506+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	BY	DATE
S.S.\A.C.	MGS	...
PROJ. MANAGER	...	...
DESIGN-DETAILED	LCG	...
CHECKED-REVIEWED	AG	...
DESIGN2-DETAILED2	...	...
DESIGN3-DETAILED3	...	...
REVISIONS 1	...	...
REVISIONS 2	...	...
REVISIONS 3	...	...
REVISIONS 4	...	...
FIELD CHANGES	...	...

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

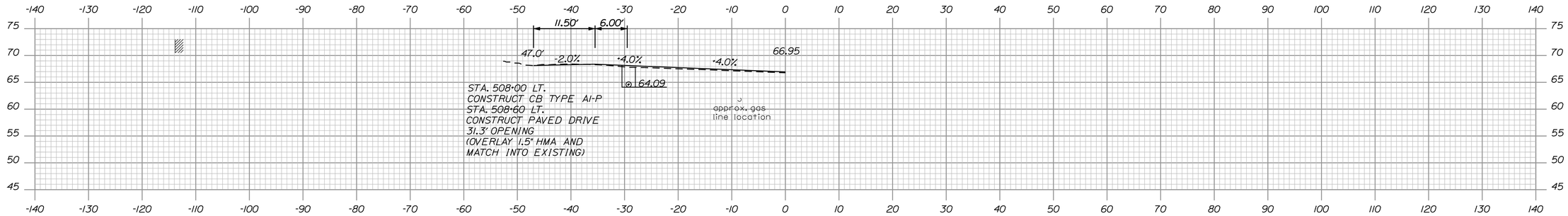
SHEET NUMBER

37

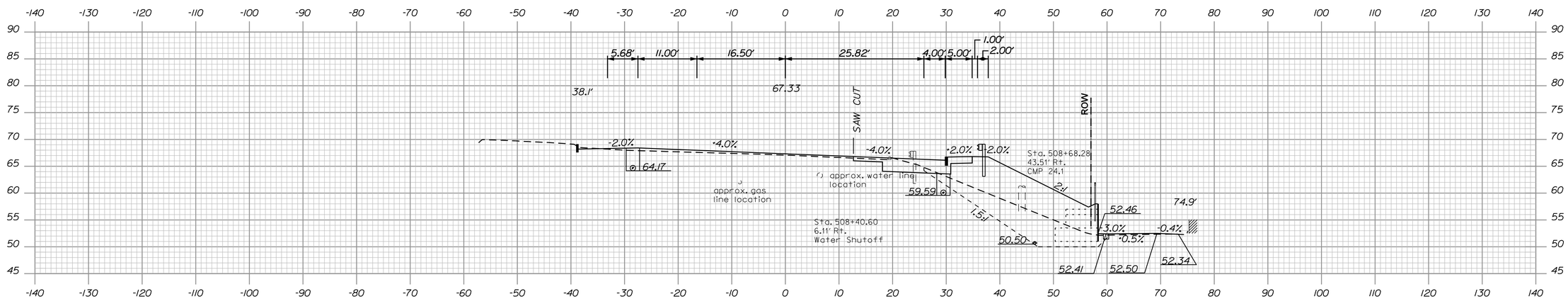
OF 45

Filename: ...\te\planset\037_50650_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

Sta. 506+50.00 to Sta. 507+50.00

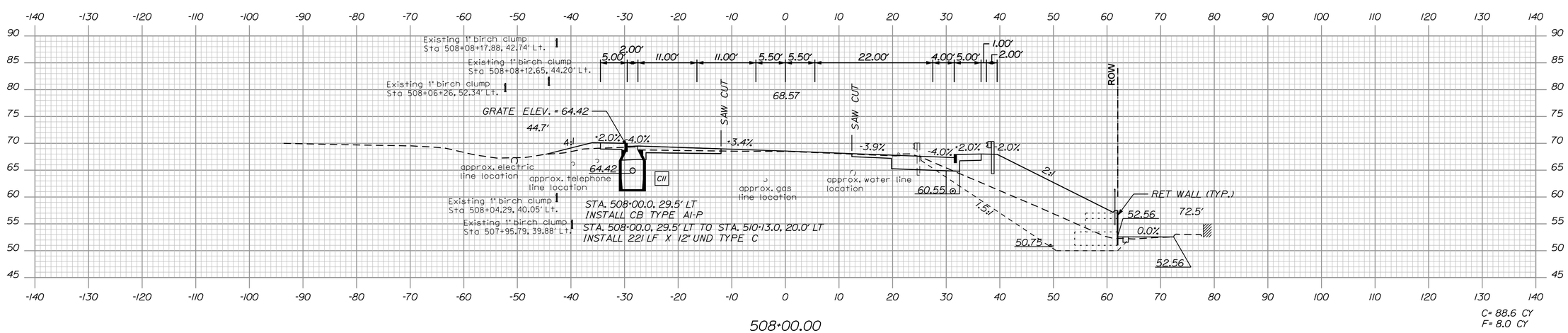


508+60.00



508+50.00

C= 59.0 CY
F= 6.1 CY



508+00.00

C= 88.6 CY
F= 8.0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	S.S.\A.G.	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	LCG	MGS	
CHECKED-REVIEWED	AG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

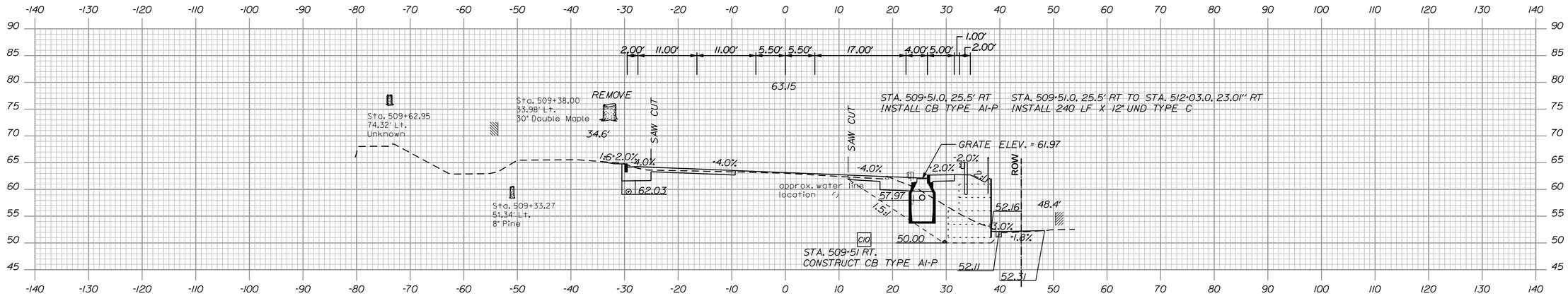
SHEET NUMBER

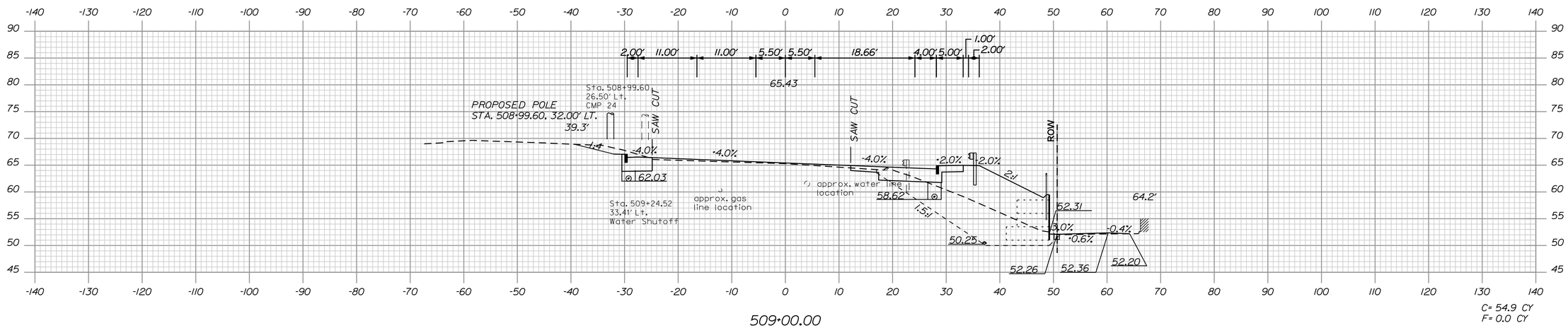
38

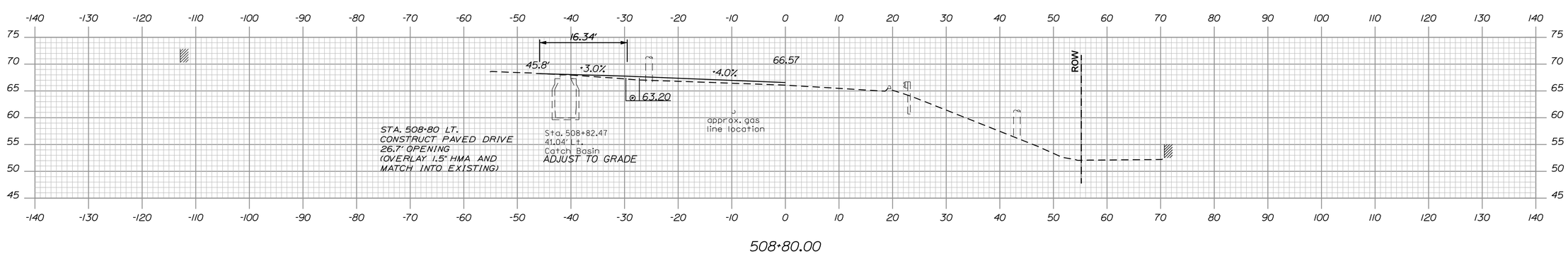
OF 45

Sta. 508+00.00 to Sta. 508+60.00

Filename: ...\te\planset\038_50800_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

		BY	DATE
S.S.\A.G.			
PROJ. MANAGER		MGS	---
DESIGN-DETAILED	LCG	---	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

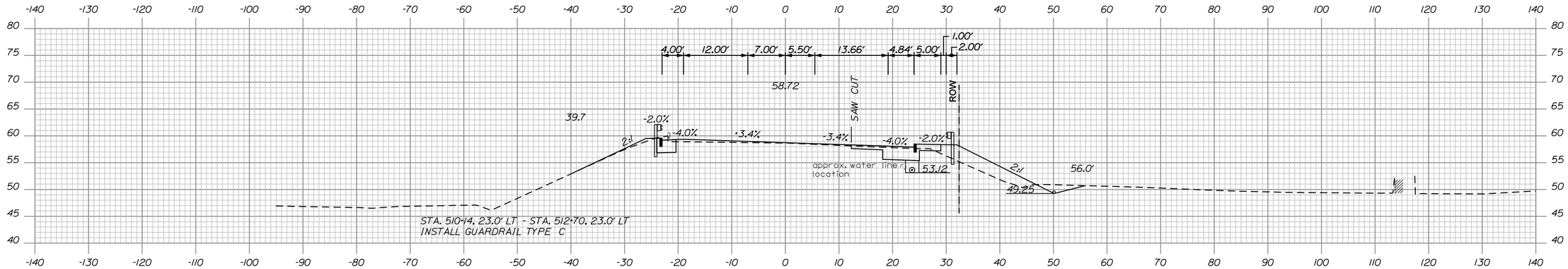
SHEET NUMBER

39

OF 45

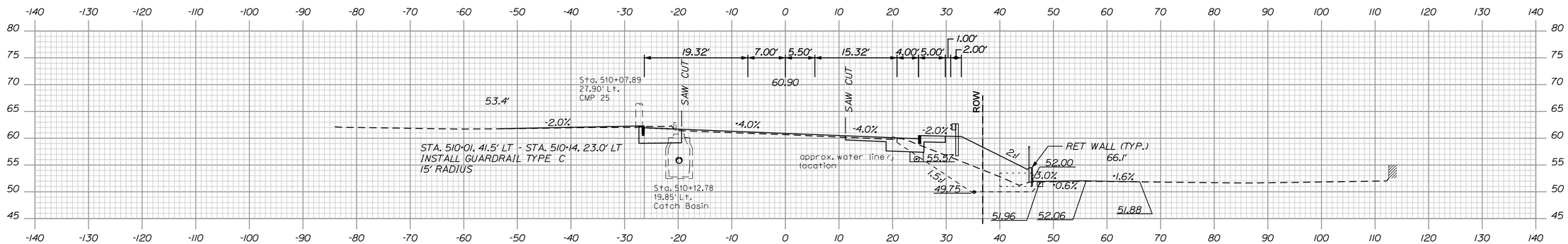
Sta. 508+80.00 to Sta. 509+50.00

Filename: ...\te\planset\039_50880_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



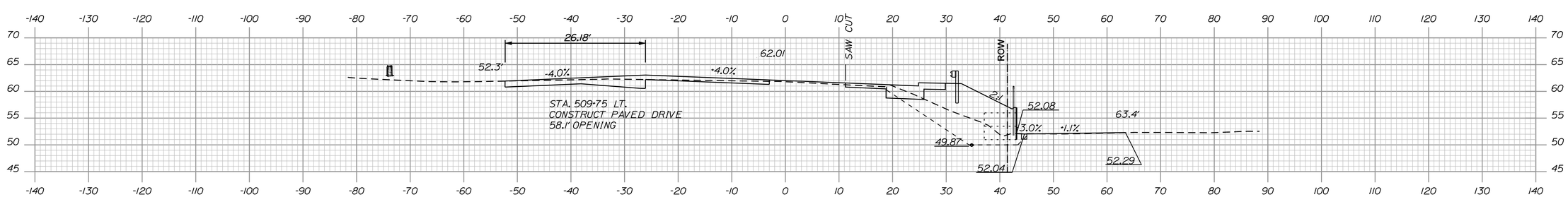
510+50.00

C= 71.9 CY
F= 42.0 CY



510+00.00

C= 71.5 CY
F= 2.4 CY



509+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.\A.C.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

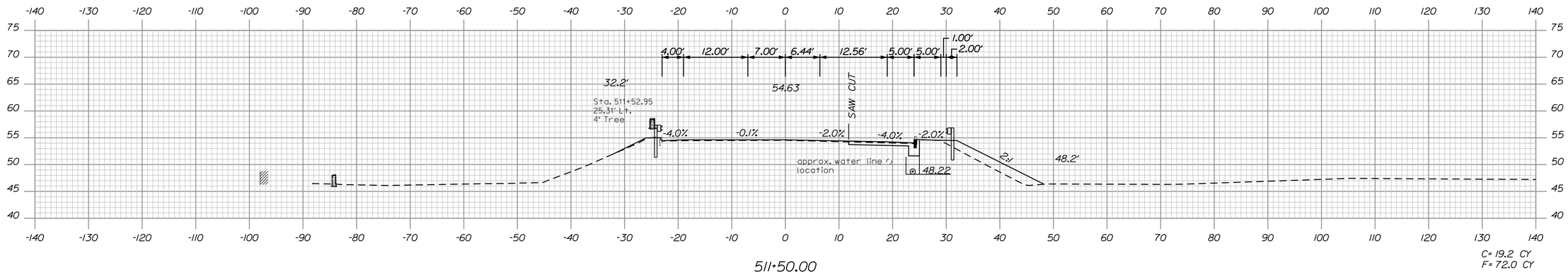
SHEET NUMBER

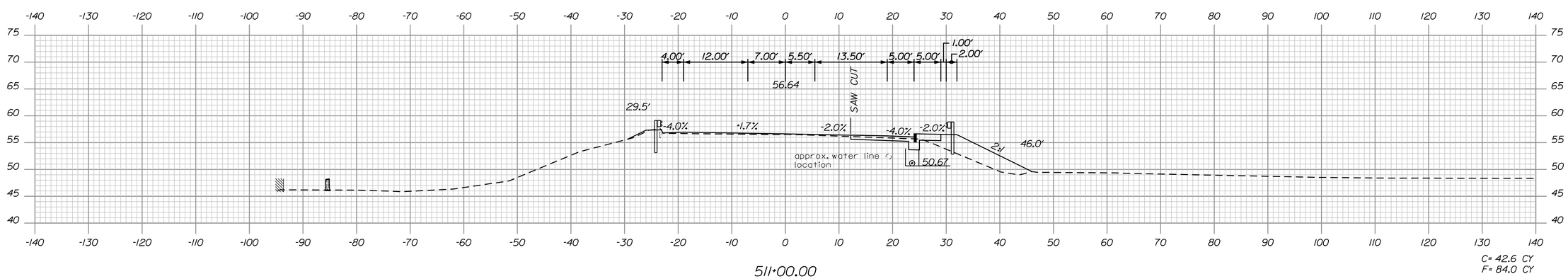
40

OF 45

Sta. 509+75.00 to Sta. 510+50.00

Filename: ...\te\planset\040_50975_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

PROJ. MANAGER	S.S.-A.G.	BY	DATE
DESIGN-DETAILED	LCG	MGS	---
CHECKED-REVIEWED	AG	---	---
DESIGN2-DETAILED2	---	---	---
DESIGN3-DETAILED3	---	---	---
REVISIONS 1	---	---	---
REVISIONS 2	---	---	---
REVISIONS 3	---	---	---
REVISIONS 4	---	---	---
FIELD CHANGES	---	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

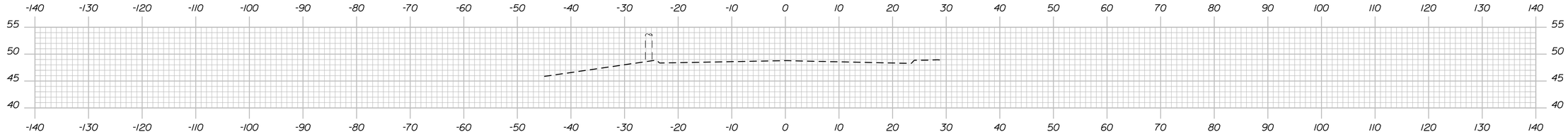
SHEET NUMBER

41

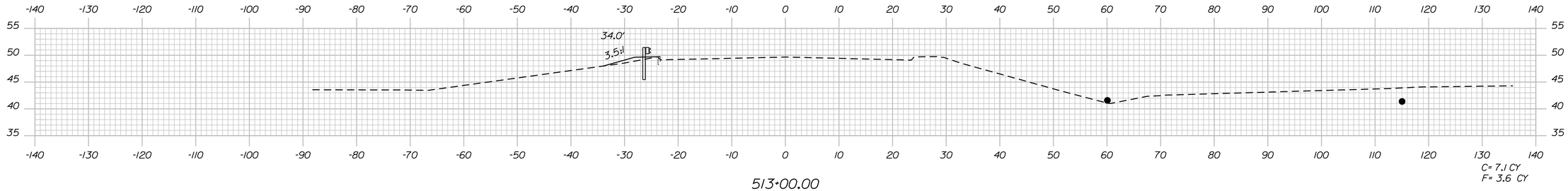
OF 45

Sta. 511+00.00 to Sta. 511+50.00

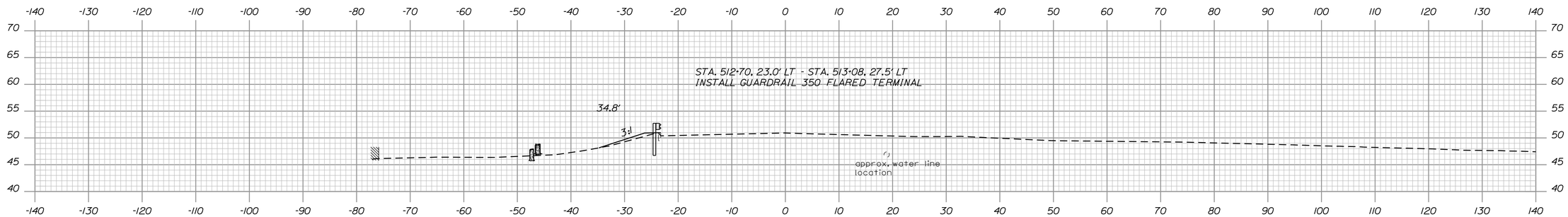
Filename: ...\te\planset\041_51100_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011



513+50.00

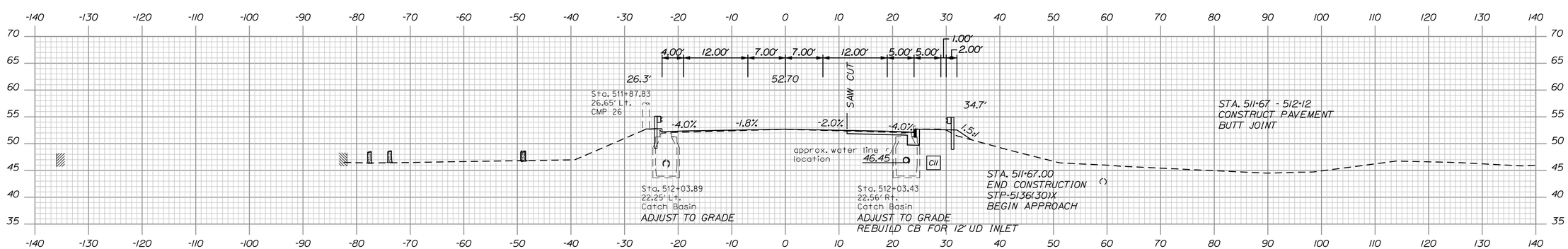


513+00.00



512+50.00

STA. 512+12.00
END APPROACH
MATCH EXISTING
PAVEMENT



512+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-5136(30)X

PIN
PIN 5136.30

HIGHWAY PLANS

	BY	DATE
S.S.\A.G.	MGS	---
PROJ. MANAGER		---
DESIGN-DETAILED	LCG	---
CHECKED-REVIEWED	AG	---
DESIGN2-DETAILED2	---	---
DESIGN3-DETAILED3	---	---
REVISIONS 1	---	---
REVISIONS 2	---	---
REVISIONS 3	---	---
REVISIONS 4	---	---
FIELD CHANGES	---	---

SIGNATURE

P.E. NUMBER

DATE

PORTLAND
WARREN AVE.\RIVERSIDE ST.

CROSS SECTIONS

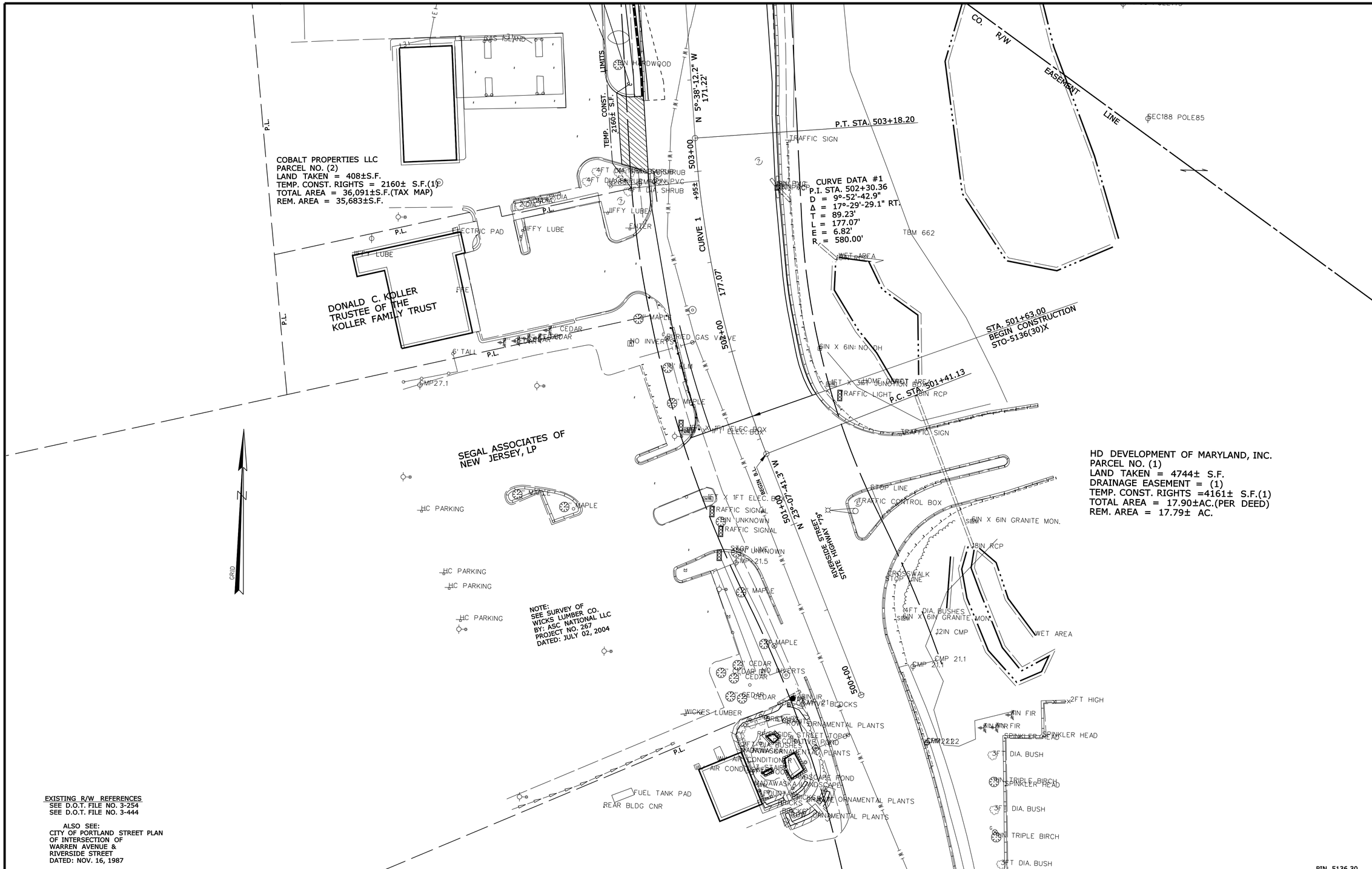
SHEET NUMBER

42

OF 45

Filename: ...\te\planset\042_51200_XS.dgn Division: $(WKGROUP) Username: $(WIN_USERNAME) Date:1/10/2011

Sta. 512+00.00 to Sta. 513+50.00



SYMBOLS

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

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

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	1/11/10	27523	245

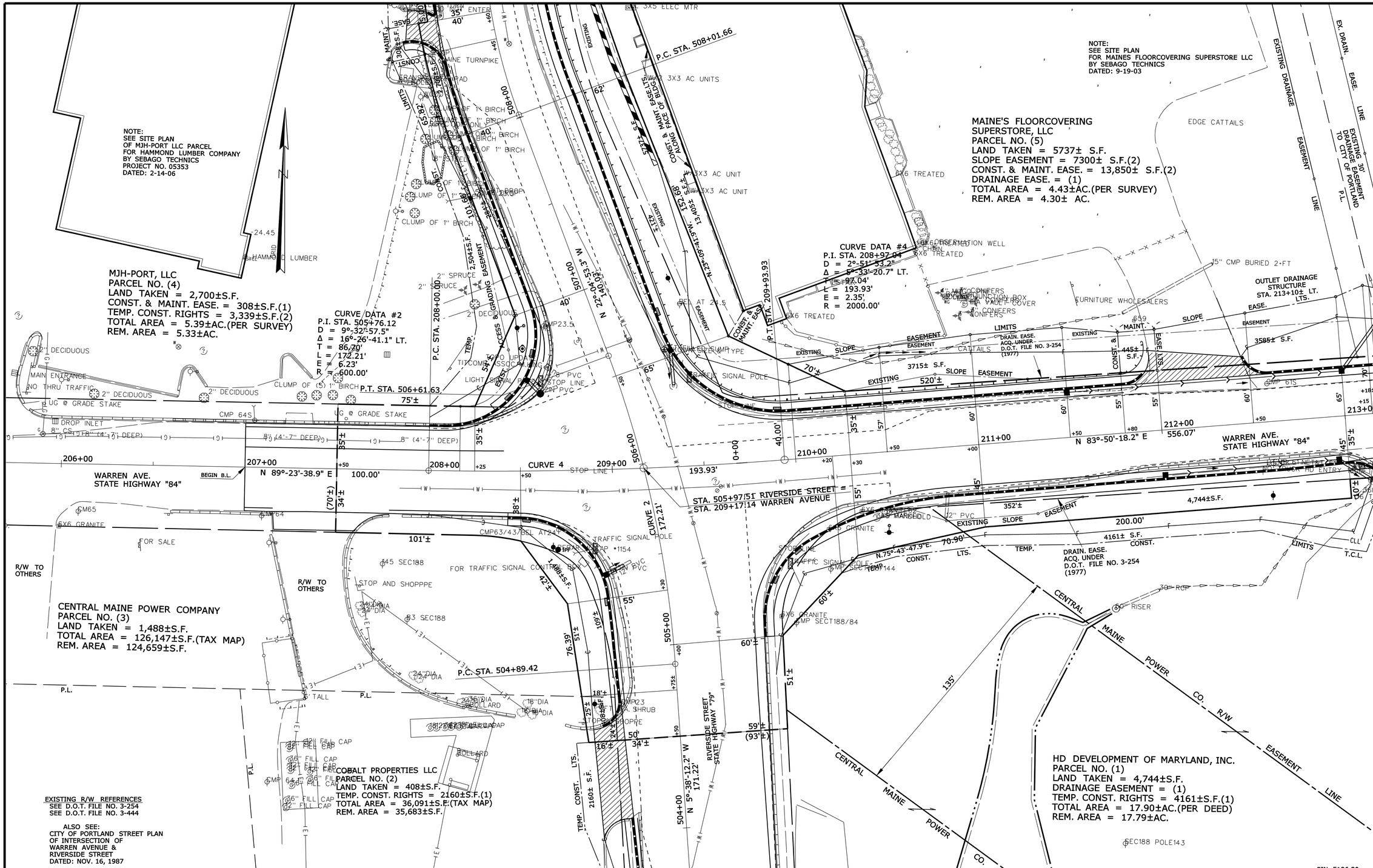
DAVID A. COLE
COMMISSIONER
JOHN E. DORITY
CHIEF ENGINEER
DATE

STATE HIGHWAY "79" & "84"
RIVERSIDE STREET & WARREN AVENUE
PORTLAND CUMBERLAND COUNTY
FEDERAL AID PROJECT NO. STP-5136(30)X

APRIL 2009 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 3-553
SCALE 1" = 25' | SHEET 1 OF 4

SHEET NUMBER
43
OF 46

Filename: ...\30\ROW\MSTA\001_RWPLAN1.dgn Division: HIGHWAY Username: judy.harden Date:3/29/2011



REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	1/11/10	27523	245

DAVID A. COLE
COMMISSIONER
JOHN E. DORITY
CHIEF ENGINEER
DATE

STATE HIGHWAY "79" & "84"
RIVERSIDE STREET & WARREN AVENUE
PORTLAND CUMBERLAND COUNTY
FEDERAL AID PROJECT NO. STP-5136(30)X

APRIL 2009 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 3-553
SCALE 1" = 25' | SHEET 2 OF 4

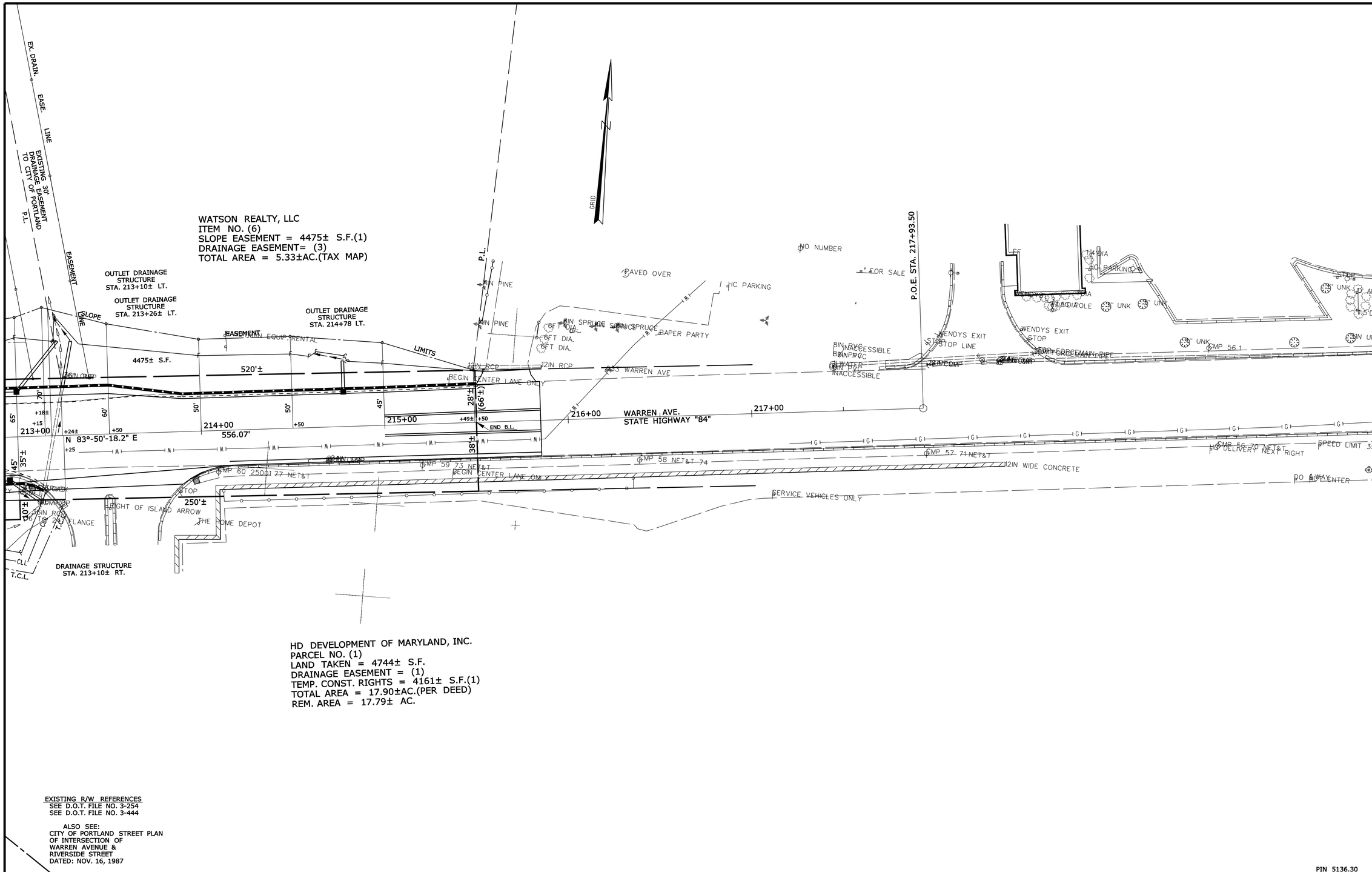
SHEET NUMBER
44
OF 46

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

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

SYMBOLS
WELL (WELL)
GRADING LIMIT LINE
CONSTRUCTION LIMIT LINE
PROPERTY LINE PL
LIMITS OF WROUGHT PORTION
EXISTING RIGHT OF WAY
NEW RIGHT OF WAY
NEW ROW WITHIN EXIST. ROW
CONTROL OF ACCESS
IP or IPF (IRON PIPE or PIN FOUND)
ST. (SEPTIC TANK)
(ROW MONUMENT)
BM (TRAVERSE POINT)
WATER LINE
GAS LINE
ELECTRIC LINE
TELEPHONE LINE
SEWER LINE

Filename: ...\30\ROW\MSTA\002_RWPLAN2.dgn Division: HIGHWAY Username: judy.harden Date:3/29/2011



EXISTING R/W REFERENCES
SEE D.O.T. FILE NO. 3-254
SEE D.O.T. FILE NO. 3-444

ALSO SEE:
CITY OF PORTLAND STREET PLAN OF INTERSECTION OF WARREN AVENUE & RIVERSIDE STREET
DATED: NOV. 16, 1987

PIN 5136.30

SYMBOLS

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

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

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	1/11/10	27523	245

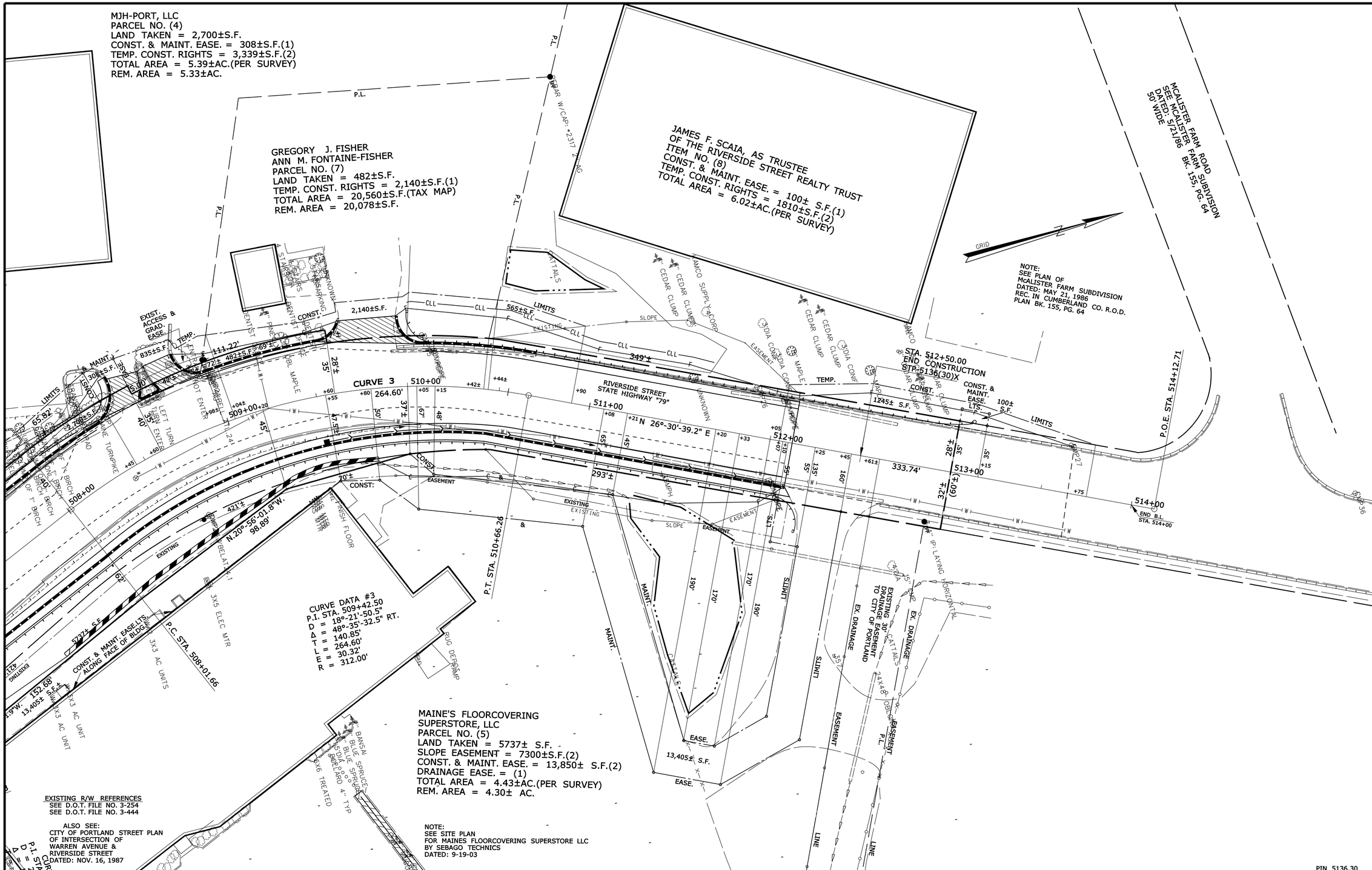
DAVID A. COLE
COMMISSIONER
JOHN E. DORITY
CHIEF ENGINEER
DATE

STATE HIGHWAY "79 & "84"
RIVERSIDE STREET & WARREN AVENUE
PORTLAND CUMBERLAND COUNTY
FEDERAL AID PROJECT NO. STP-5136(30)X

APRIL 2009 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 3-553
SCALE 1" = 25' | SHEET 3 OF 4

SHEET NUMBER
45
OF 46

Filename: ...\30\ROW\MSTA\003_RWPLAN3.dgn Division: HIGHWAY Username: judy.harden Date:3/29/2011



Filename: ...\30\ROW\MSTA\004_RWPLAN4.dgn Division: HIGHWAY Username: judy.harden Date:3/29/2011

SYMBOLS

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

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

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	1/11/10	27523	245

DAVID A. COLE
COMMISSIONER
JOHN E. DORITY
CHIEF ENGINEER
DATE

STATE HIGHWAY "79" & "84"
RIVERSIDE STREET & WARREN AVENUE
PORTLAND CUMBERLAND COUNTY
FEDERAL AID PROJECT NO. STP-5136(300)X

APRIL 2009 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 3-553
SCALE 1" = 25' | SHEET 4 OF 4

SHEET NUMBER
46
OF 46