STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TMSI

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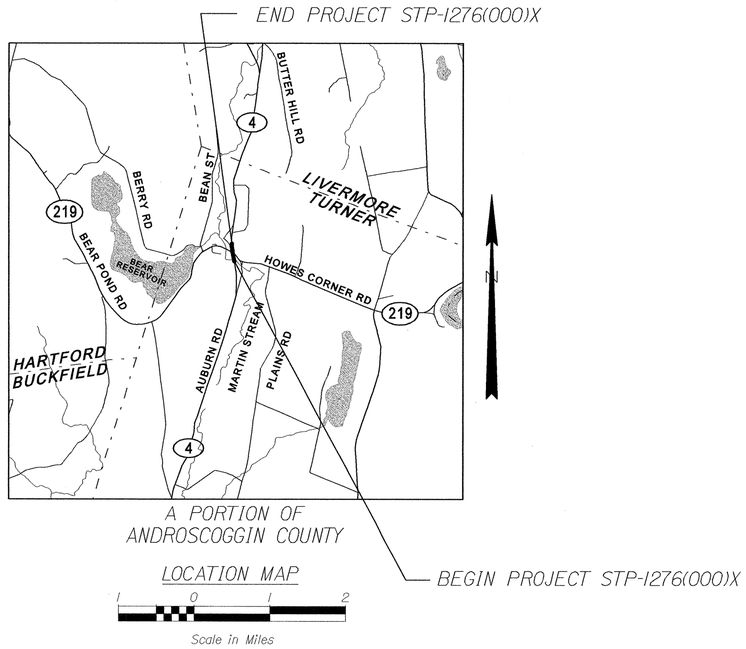


LOCATION MAP

TURNER

ANDROSCOGGIN

ROUTE 4 - ROUTE 219

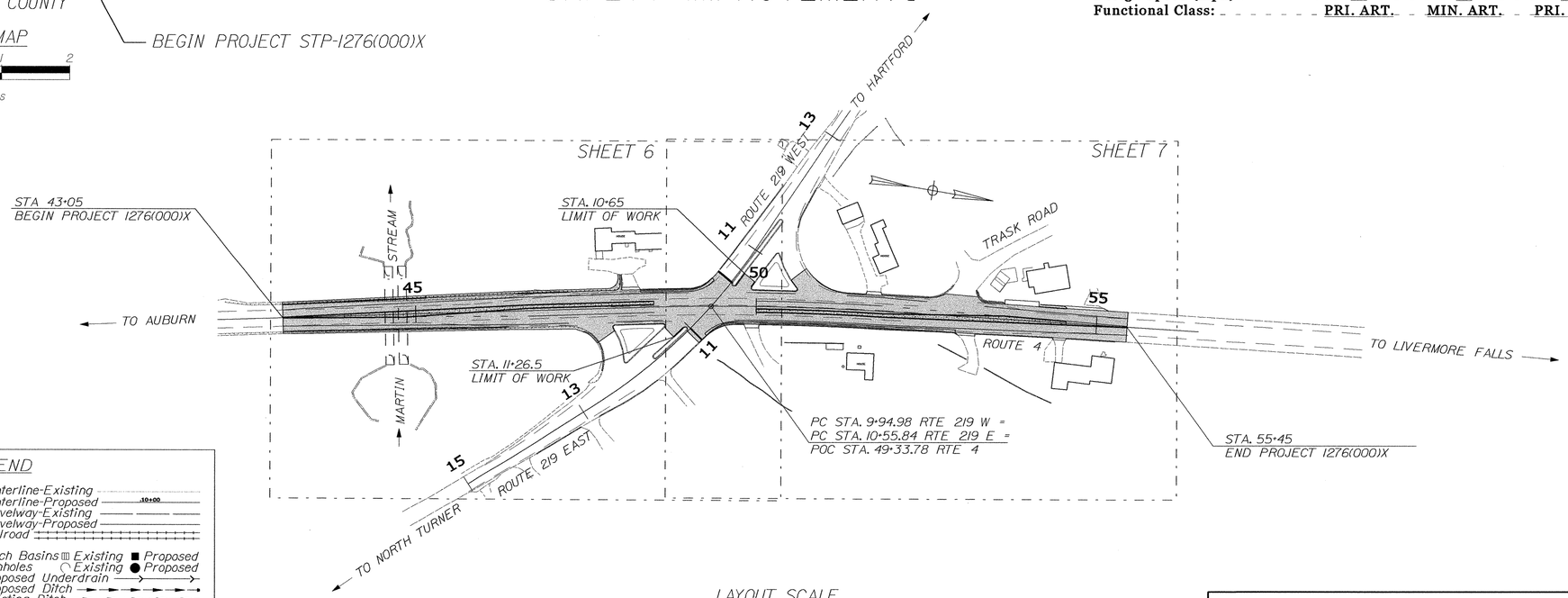
STP-1276(000)X

PROJECT LENGTH : 0.235 MILES

HIGHWAY OPERATIONAL &
SAFETY IMPROVEMENTS

TRAFFIC DATA

	Turner - Rte 4 (N)	Turner - Rte 219 (SE)	Turner - Rte 4 (S)	Turner - Rte 219 (W)
Latest AADT (Year)	9460 (2004)	2240 (2004)	9140 (2004)	2140 (2004)
Current (2010) AADT	9650	2285	9320	2180
Future (2020) AADT	11580	2745	11190	2620
DHV - % of AADT	10%	10%	9%	10%
Design Hour Volume	1190	268	1041	264
% Heavy Trucks (AADT)	15%	13%	15%	13%
% Heavy Trucks (DHV)	6%	6%	7%	4%
Directional Distribution (DHV)	61%	52%	63%	51%
18 kip Equivalent P 2.0	938	118	1054	114
18 kip Equivalent P 2.5	894	112	1004	108
Design Speed (mph)	45	45	45	45
Functional Class:	PRI. ART.	MIN. ART.	PRI. ART.	MAJ. COL.



PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert Proposed
Curbing — Existing — Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees — Conifer — Deciduous
Tree Line
Clearing Limit Line — CLL
Centerline-Existing
Centerline-Proposed — 10+00
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins — Existing — Proposed
Manholes — Existing — Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
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

LAYOUT SCALE

100 0 100 200

Scale in Feet

PROGRAM AREA: HAZARD ELIMINATION
SCOPE OF WORK: INTERSECTION IMPROVEMENTS
OVERLAY AND WIDENING

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE

COMMISSIONER: 4/5/10

CHIEF ENGINEER: 4/2/10

STATE OF MAINE — JAMES L. EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE — 7960 P.E. NUMBER — MARCH 29, 2010 DATE

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	JIM FERGUSON
DESIGNER	A. CODFREY / J. EASON
CONSULTANT	TERRA MAGNA SERVICES, INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

PIN 12760.00

STP-1276(000)X

TURNER
ROUTE 4 - ROUTE 219

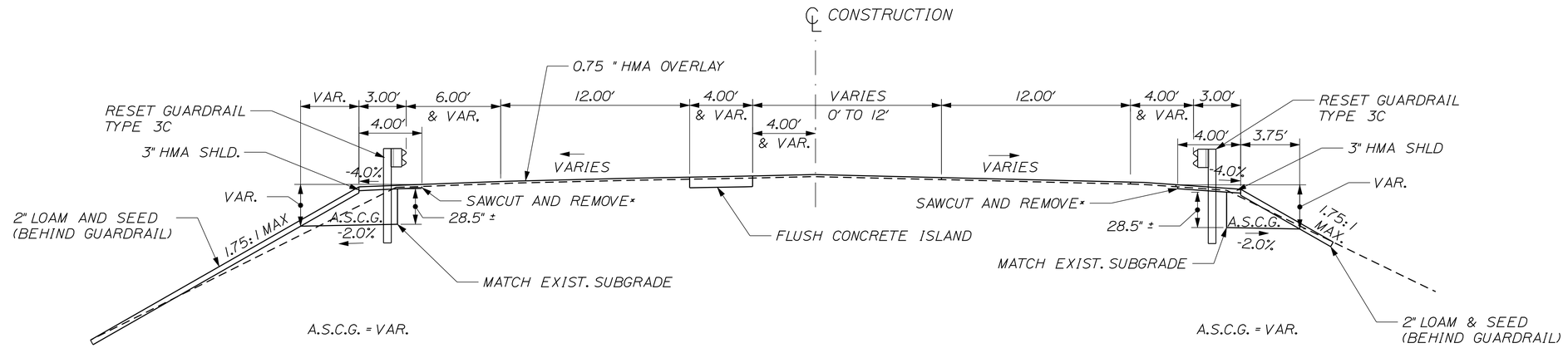
TITLE SHEET

SHEET NUMBER

1

OF 17

Filename: ...\HIGHWAY\MSTA\001_Title_001.dgn Division: HIGHWAY Username: jeason Date:3/30/2010

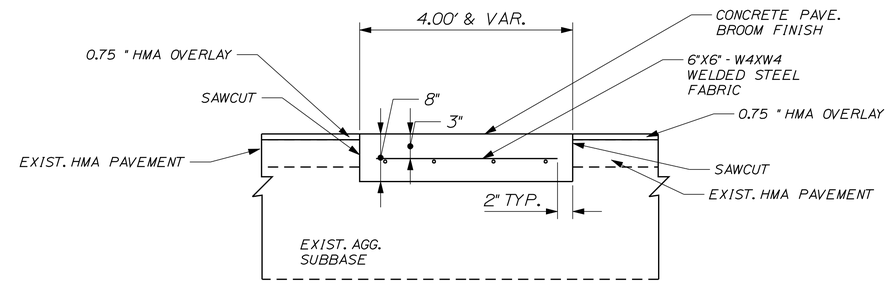


OVERLAY AND WIDENING

STA. 43+05 TO STA. 49+50

* SHOULDER WIDENING LIMITS

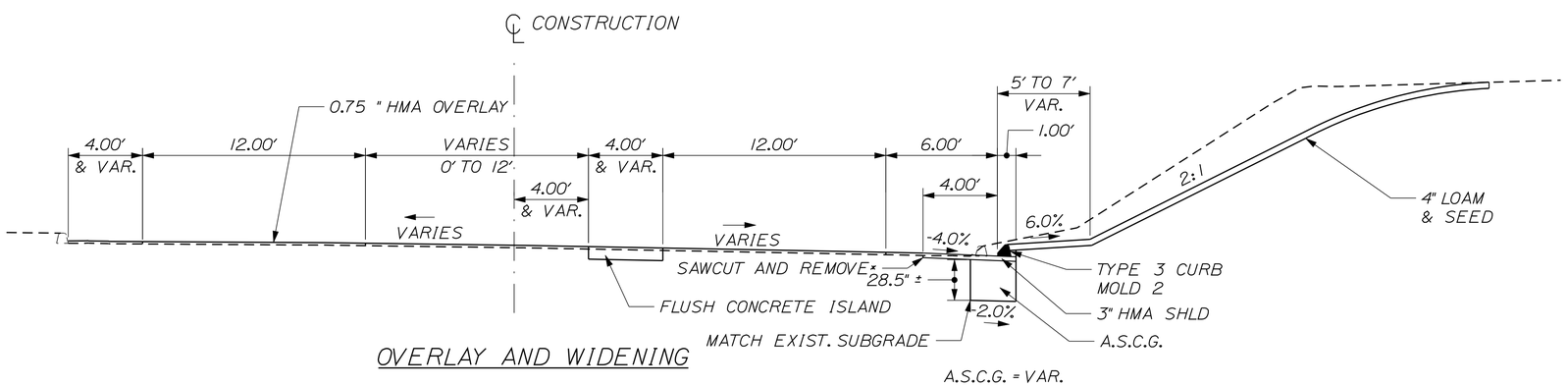
STA. 43+05 TO STA. 45+15 LT.
STA. 43+05 TO STA. 46+36 RT.
STA. 46+49 TO STA. 47+23 LT.
STA. 48+32 TO STA. 49+38 LT.
STA. 49+24 TO STA. 49+82 RT.
STA. 50+05 TO STA. 52+94 RT.



FLUSH CONCRETE ISLAND

STA. 43+95 TO STA. 48+50
STA. 50+00 TO STA. 54+55

SAWCUT AND REMOVE EXISTING PAVEMENT. REPLACE WITH STRUCTURAL CONCRETE MEDIAN. MATCH EXISTING GRADE. SHIM SUBBASE WITH AGGREGATE MEETING GRADATION OF SECTION 703.10, IF NEEDED. GRADING OF EXISTING SUBBASE AND FURNISHING, PLACING, AND COMPACTING AGGREGATE SHIM WILL BE INCIDENTAL TO ITEM 502.341.



OVERLAY AND WIDENING

STA. 49+50 TO STA. 55+45

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'S PAVEMENT SHALL HAVE THE SAME CROSS SLOPE AS THE TRAVEL WAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. EXCEPT WHERE NOTED, THE GRAVEL QUANTITY CALCULATION IS BASED ON 4" LOAM. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
5. THE ALGEBRAIC DIFFERENCE BETWEEN SHOULDER AND TRAVEL LANE CROSS SLOPE'S "ROLLOVER" SHALL NOT EXCEED 8%.
6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
7. A.S.C.G. = AGGREGATE SUBBASE COURSE - GRAVEL
   H.M.A. = HOT MIX ASPHALT
8. PAVEMENT AT SIDE ROADS WILL BE MATCHED WITH BUTT JOINTS.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN 12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON		
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

TURNER
ROUTE 4-ROUTE 219

TYPICAL SECTIONS

SHEET NUMBER
2
OF 17

Filename: ...\msta\002_Typical1_001.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010

ESTIMATED QUANTITIES

	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
	202.202	REMOVING PAVEMENT SURFACE	310	SY
	202.203	PAVEMENT BUTT JOINTS	1,025	SY
	203.20	COMMON EXCAVATION	620	CY
*	203.25	GRANULAR BORROW	25	CY
*	206.061	STR. EARTH EXC - DRAIN & MINOR STRUCT - BELOW GRADE	25	CY
	304.10	AGGREGATE SUBBASE COURSE - GRAVEL	450	CY
	403.209	HOT MIX ASPHALT, 9.5mm (SW, DRIVES, INCIDENTALS)	14	TON
	403.210	HOT MIX ASPHALT, 9.5mm SURFACE	285	TON
*	403.211	HOT MIX ASPHALT, SHIM	25	TON
	403.213	HOT MIX ASPHALT, 12.5mm BASE	80	TON
	409.15	BITUMINOUS TACK COAT - APPLIED	190	GAL
	502.341	STRUCTURAL CONCRETE MEDIAN	117	CY
	603.151	12 IN. CORRUGATED METAL PIPE	12	LF
	604.164	REBUILD CATCH BASIN	2	EA
	604.18	ADJUST CATCH BASIN TO GRADE	4	EA
	606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	157	LF
	606.231	GUARDRAIL TYPE 3C - 15 FOOT RADIUS AND LESS	12.5	LF
	606.258	CABLE RELEASING TERMINAL ANCHORAGE	1	EA
	606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	2	EA
	606.366	GUARDRAIL REMOVE AND RESET TYPE 3C	663	LF
*	606.47	SINGLE WOOD POST	5	EA
	609.31	CURB TYPE 3	460	LF
	610.08	PLAIN RIPRAP	3	CY
	613.319	EROSION CONTROL BLANKET	200	SY
	615.0701	LOAM - PLAN QUANTITY	70	CY
	618.1301	SEEDING METHOD NO. 1 - PLAN QUANTITY	5	UNIT
	618.1411	SEEDING METHOD NO. 3 - PLAN QUANTITY	10	UNIT
	619.1201	MULCH - PLAN QUANTITY	14	UNIT
	619.1401	EROSION CONTROL MIX	100	CY
	620.58	EROSION CONTROL GEOTEXTILE	10	SY
	627.733	WHITE OR YELLOW PAVEMENT MARKING LINE	5,000	LF
	627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	290	SF
	627.76	TEMP PVMT. MARKING LINE, WHITE OR YELLOW	1	LS
*	629.05	HAND LABOR - STRAIGHT TIME	10	HR
*	631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	5	HR
*	631.11	AIR TOOL (INCLUDING OPERATOR)	5	HR
*	631.111	TRACTOR MOUNTED HYDRAULIC HAMMER	5	HR
*	631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	5	HR
*	631.172	TRUCK - LARGE (INCLUDING OPERATOR)	5	HR
*	631.22	FRONT END LOADER (INCLUDING OPERATOR)	5	HR
*	631.32	CULVERT CLEANER (INCLUDING OPERATOR)	5	HR
	643.60	FLASHING BEACON AT RTE 4 & RTE 219	1	LS
	639.19	FIELD OFFICE TYPE B	1	EA

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
645.106	DEMOUNT REG. WARN. CONF. & RTE SIGN	4	EA
645.116	REINSTALL REG. WARN. CONF. & RTE SIGN	4	EA
652.311	TYPE II BARRICADE	5	EA
652.33	DRUM	30	EA
652.34	CONE	30	EA
652.35	CONSTRUCTION SIGNS	800	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	600	HR
652.75	TEMP SOIL EROSION AND WATER POLLUTION CONTROL PLAN	1	LS
659.10	MOBILIZATION	1	LS

* UNDETERMINED LOCATION

SUMMARY OF EARTHWORK AND BORROW

COMMON EXCAVATION FOR ESTIMATE
- COMMON EXCAVATION (FROM CROSS SECTIONS) 422 CY
- COMMON EXCAVATION FOR CONCRETE ISLANDS 106 CY
- TOTAL COMMON EXCAVATION 528 CY

FILL FOR BORROW CALCULATIONS
- COMMON FILL MAINLINE (FROM CROSS SECTIONS) 91 CY
- TOTAL FILL 91 CY

ROCK EXCAVATION FOR ESTIMATE **
- ROCK EXCAVATION 14 CY
- TOTAL ROCK EXCAVATION 14 CY

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS
- (1) TOTAL COMMON EXCAVATION 422 CY
- DEDUCTIONS:
  - GRUBBING IN CUT 100 CY
  - PAVEMENT SALVAGE REMOVAL 106 CY
- (2) TOTAL DEDUCTIONS 206 CY
- TOTAL AVAILABLE NON-ROCK EXCAVATION (1) MINUS (2) 216 CY

COMPUTATION OF COMMON BORROW FOR ESTIMATE
- (3) TOTAL FILL 91 CY
- TOTAL AVAILABLE NON-ROCK EXCAV. 216 CY X 0.85 = 184 CY
- TOTAL AVAILABLE ROCK EXCAV. 14 CY X 1.33 = 19 CY
- (4) TOTAL AVAILABLE EXCAVATION 203 CY

SURPLUS MATERIAL = AVAILABLE EXCAVATON - TOTAL FILL - DEDUCTIONS 318 CY

** ROCK EXCAVATION TO BE PAID AS 6 X COMMON EXCAVATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN 12760.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	JM FERGUSON	
DESIGN-DETAILED	JLE	3-10
CHECKED-REVIEWED	ALG	3-10
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

TURNER
ROUTE 4-ROUTE 219

ESTIMATED QUANTITIES

SHEET NUMBER
3
OF 17

Filename: ...\003_Estimate_001 4-6-10.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/9/2010

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

CENTRAL MAINE POWER COMPANY
TIME WARNER CABLE
OXFORD TELEPHONE COMPANY

NO UTILITY INVOLVEMENT IS ANTICIPATED.

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

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

4. GRIND TRANSITION TAPERS AT CATCH BASINS UNDER ITEM 202.203 PAVEMENT BUTT JOINTS. AS DIRECTED BY THE RESIDENT.

5. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.

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

7. THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON FINAL COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT. ALL REMAINING OR DISTURBED MATERIAL ON SLOPES OR IN DITCHES ON THE PROJECT SHALL BE CAPABLE OF ATTAINING A GROWTH OF GRASS THAT IS ACCEPTABLE ACCORDING TO STANDARD SPECIFICATION 618.10. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

8. DRIVEWAY FILL SIDE SLOPES SHALL BE 4:1 UNLESS OTHERWISE NOTED ON THE PLANS.

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

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

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

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

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

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

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

16. 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 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

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

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

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

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

21. GUARDRAIL WHICH IS REMOVED AND NOT REUSED ON THE PROJECT BECOMES PROPERTY OF THE STATE AND SHALL BE DELIVERED TO THE MDOT DIXFIELD REGIONAL OFFICE . 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 GUARDRAIL MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.

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

25. IN AREAS WHERE NEW BITUMINOUS CURB IS DESIGNATED TO REPLACE EXISTING, THE REMOVAL OF THE OLD BITUMINOUS CURB SHALL BE INCIDENTAL TO THE NEW CURB.

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

27. 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.

28. 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.

29. WHITE PAVEMENT/CURB MARKING (ITEM 627.75) SHALL BE APPLIED TO BITUMINOUS CURB ENDS AT DRIVEWAY OPENINGS AS DIRECTED BY THE RESIDENT.

30. 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

31. 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.

32. 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.

33. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.

34. 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.

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

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

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

38. THE EXCAVATION QUANTITY ON THE CROSS SECTIONS DOES NOT INCLUDE EXCAVATION FOR THE FLUSH CONCRETE ISLANDS.

39. ROCK EXCAVATION IS ESTIMATED AT 14 CY. PAYMENT FOR ROCK EXCAVATION WILL BE MADE AT SIX (6) TIMES THE UNIT PRICE FOR COMMON EXCAVATION, ITEM 203.20.

40. REFERENCE MAY BE MADE TO PREVIOUS STATE PROJECT 2918.50, DECEMBER 1989. THE BASELINES OF PIN 12760.00 ARE INTENDED TO REPRODUCE THE BASELINES OF THE 1989 PROJECT.

41. LANE LINES NOTED AS "SBWL" SHALL BE RECESSED BY GRINDING TO 0.8 mm DEPTH PRIOR TO APPLICATION OF SINGLE BROKEN WHITE LANE LINE MARKINGS. GRINDING WILL BE CONSIDERED INCIDENTAL TO PAYMENT UNDER ITEM 627.733.

Filename: ...\MSTA\004_Notes_001 4-6-10.dgn Division: HIGHWAY Username: jeason Date:4/13/2010

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN 12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON		
DESIGN-DETAILED	JLE	BY	DATE
CHECKED-REVIEWED	ALG	RCL	3-10
DESIGN2-DETAILED2			3-10
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

7960
P.E. NUMBER

MARCH 29, 2010
DATE

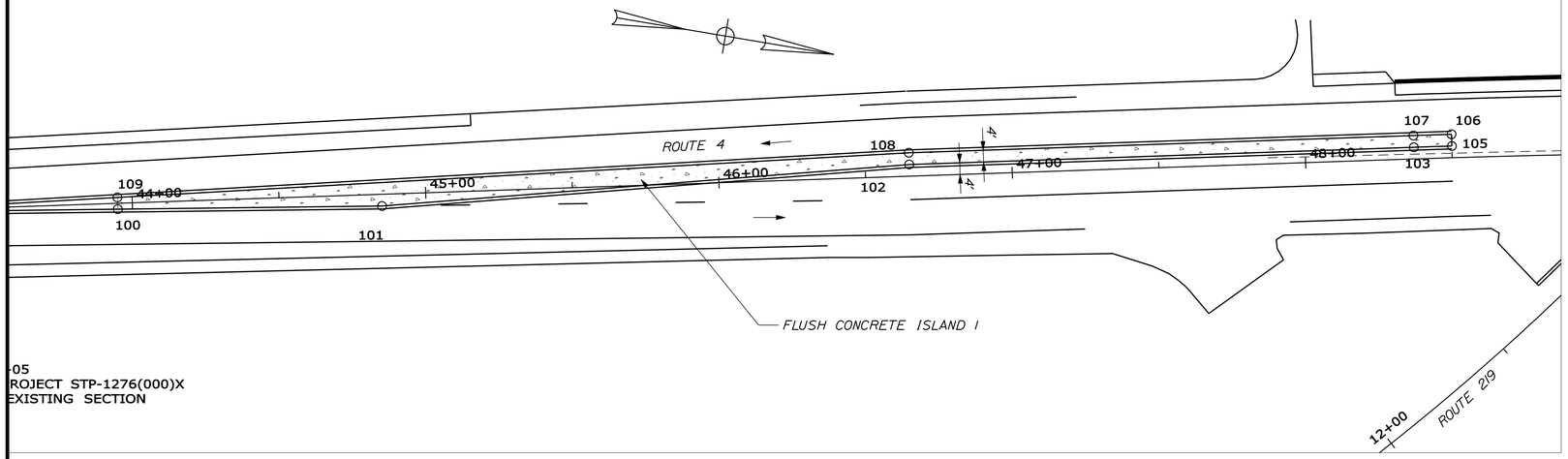
TURNER
ROUTE 4-ROUTE 219

CONSTRUCTION NOTES

SHEET NUMBER

4

OF 17



-05
ROJECT STP-1276(000)X
EXISTING SECTION

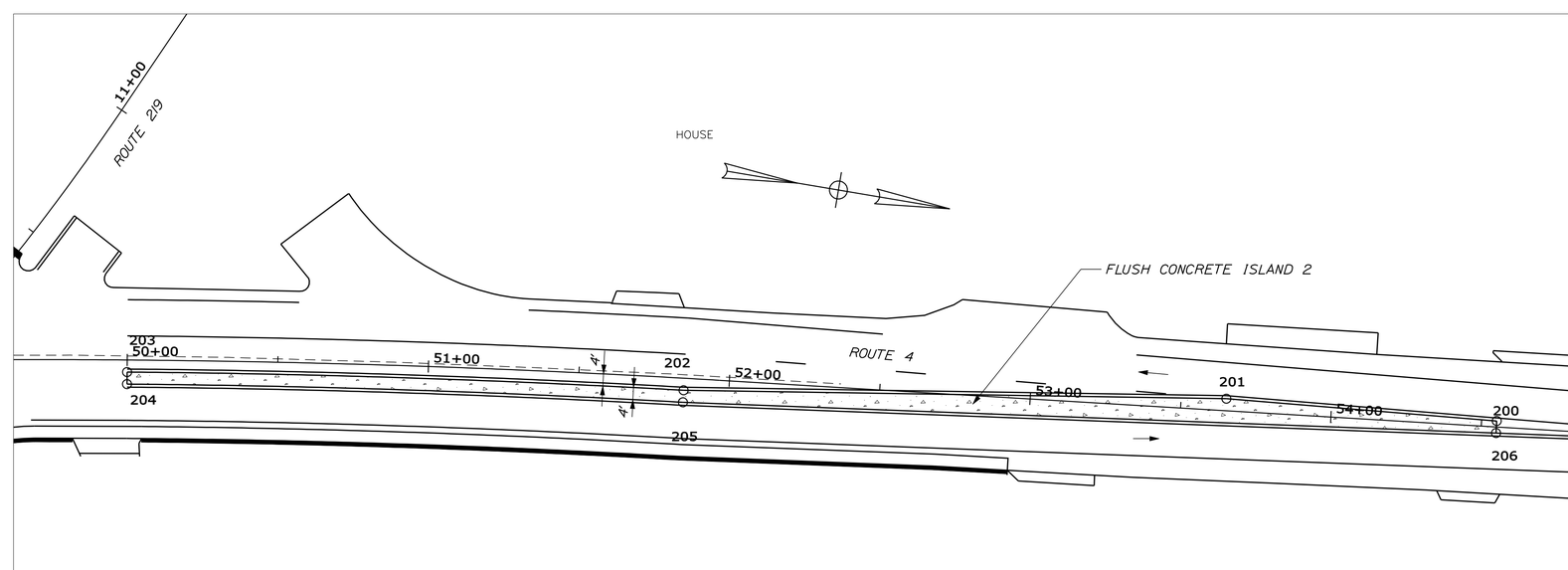
FLUSH CONCRETE ISLAND 1

Horizontal	Alignment	Name: STATION	CONC NORTHING	ISLAND 1 EASTING
POB	100	0+00.00	549732.3654	1015395.7561
PI	101	0+90.04	549820.9666	1015379.7044
Tangent	Direction:	N10°16'07.6"W		
Tangent	Length:	90.0435		
PI	101	0+90.04	549820.9666	1015379.7044
PI	102	2+70.22	549995.7258	1015335.8514
Tangent	Direction:	N14°05'11.8"W		
Tangent	Length:	180.1773		
PI	102	2+70.22	549995.7258	1015335.8514
PC	103	4+42.26	550164.2884	1015301.4288
Tangent	Direction:	N11°32'30.5"W		
Tangent	Length:	172.0415		
PC	103	4+42.26	550164.2884	1015301.4288
PI	()	4+48.75	550170.6431	1015300.1311
CC	104		550929.3470	1019047.8205
PT	105	4+55.23	550177.0022	1015298.8550
Radius:	3823.711			
Delta:	0°11'39.7""	Right		
Degree	of	Curvature(Arc):	1°29'54.4"	
Length:	12.9717			
Tangent:	6.4859			
Chord:	12.9717			
External:	0.0055			
PT	105	4+55.23	550177.0022	1015298.8550
PC	106	4+59.23	550176.2152	1015294.9332
Tangent	Direction:	S78°39'09.3"W		
Tangent	Length:	4		
PC	106	4+59.23	550176.2152	1015294.9332
PI	()	4+65.73	550169.8495	1015296.2107
CC	104		550929.3470	1019047.8205
PT	107	4+72.22	550163.4881	1015297.5097
Radius:	3827.7109			
Delta:	0°11'39.7"	Left		
Degree	of	Curvature(Arc):	1°29'48.7"	
Length:	12.9853			
Tangent:	6.4927			
Chord:	12.9853			
External:	0.0055			
PT	107	4+72.22	550163.4881	1015297.5097
PI	108	6+44.26	549994.9255	1015331.9323
Tangent	Direction:	S11°32'30.5"E		
Tangent	Length:	172.0415		
PI	108	6+44.26	549994.9255	1015331.9323
PI	109	9+14.35	549731.5653	1015391.838
Tangent	Direction:	S12°48'53.4"E		
Tangent	Length:	270.0875		
PI	109	9+14.35	549731.5653	1015391.8379
POE	100	9+18.35	549732.3654	1015395.7561
Tangent	Direction:	N78°27'30.7"E		
Tangent	Length:	3.999		

PNT	RTE 4 STA.	OFFSET	NORTHING	EASTING
100	43+94.98	2.00	549732.3654	1015395.7561
101	44+85.00	4.00	549820.9666	1015379.7044
102	46+65.00	-4.00	549995.7258	1015335.8514
103	48+37.04	-4.00	550164.2884	1015301.4288
105	48+50.00	-4.00	550177.0022	1015298.8550
106	48+50.00	-8.00	550176.2152	1015294.9332
107	48+37.04	-8.00	550163.4881	1015297.5097
108	46+65.00	-8.00	549994.9255	1015331.9323
109	43+94.98	-2.00	549731.5653	1015391.8379
200	54+55.02	-1.99	550776.9631	1015220.4257
201	53+65.00	-3.99	550687.2432	1015228.0811
202	51+85.00	4.00	550509.1483	1015255.3170
203	50+00.00	4.00	550326.0309	1015280.1077
204	50+00.00	8.00	550326.6633	1015284.0574
205	51+85.00	8.00	550509.5888	1015259.2926
206	54+55.02	2.00	550777.3915	1015224.4017

FLUSH CONCRETE ISLAND 2

Horizontal	Alignment	Name: STATION	CONC NORTHING	ISLAND 2 EASTING
POB	200	0+00.00	550776.9631	1015220.4257
PI	201	0+90.05	550687.2432	1015228.0811
Tangent	Direction:	S4°52'37.2"E		
Tangent	Length:	90.046		
PI	201	0+90.05	550687.2432	1015228.0811
PC	202	2+70.21	550509.1483	1015255.3170
Tangent	Direction:	S8°41'41.3"E		
Tangent	Length:	180.1653		
PC	202	2+70.21	550509.1483	1015255.3170
PI	()	3+62.63	550417.2894	1015265.4947
CC	104		550929.3470	1019047.8205
PT	203	4+55.02	550326.0309	1015280.1077
Radius:	3815.711			
Delta:	2°46'30.0"	Left		
Degree	of	Curvature(Arc):	1°30'05.7"	
Length:	184.806			
Tangent:	92.4211			
Chord:	184.788			
External:	1.1191			
PT	203	4+55.02	550326.0309	1015280.1077
PC	204	4+59.02	550326.6633	1015284.0574
Tangent	Direction:	N80°54'09.3"E		
Tangent	Length:	4		
PC	204	4+59.02	550326.6633	1015284.0574
PI	()	5+51.34	550417.8262	1015269.4597
CC	104		550929.3470	1019047.8205
PT	205	6+43.63	550509.5888	1015259.2926
Radius:	3811.711			
Delta:	2°46'30.0"	Right		
Degree	of	Curvature(Arc):	1°30'11.3"	
Length:	184.6123			
Tangent:	92.3242			
Chord:	184.5942			
External:	1.1179			
PT	205	6+43.63	550509.5888	1015259.2926
PI	206	9+13.70	550777.3915	1015224.4017
Tangent	Direction:	N7°25'22.9"W		
Tangent	Length:	270.066		
PI	206	9+13.70	550777.3915	1015224.4017
POE	200	9+17.69	550776.9631	1015220.4257
Tangent	Direction:	S83°51'00.0"W		
Tangent	Length:	3.999		



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN 12760.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	JIM FERGUSON	
DESIGN-DETAILED	JLE	3-10
CHECKED-REVIEWED	RCL	3-10
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

7960
P.E. NUMBER

MARCH 29 2010
DATE

TURNER
ROUTE 4-ROUTE 219

GEOMETRY PLAN

SHEET NUMBER
5
OF 17

Filename: ...\msta\005_geometry-01.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010

ITEM 603.151 12" CORRUGATED METAL PIPE	
STA. 47+87.2, 37.7' LT TO STA. 47+99.2, 38.1' LT	12 LF

ITEM 619.1401 EROSION CONTROL MIX
STA. 43+05 TO STA. 46+25 LT
STA. 43+05 TO STA. 46+25 RT

ITEM 609.31 CURB TYPE 3/ MOLD 2	
STA. 48+31.3, 26.0' LT TO STA. 49+35.6, 40.5' LT	109.0 LT

ITEM 613.319 EROSION CONTROL BLANKET
STA. 46+25 LT TO STA. 48+00 LT
STA. 46+25 RT TO STA. 47+50 RT

ITEM 606.353 REFLECTORIZED FLEXIBLE GUARDRAIL DELINEATOR
STA. 48+01.4 LT

ITEM 606.231 GUARDRAIL TYPE 3C - 15 FT RADIUS & LESS	
STA. 47+93.9, 26.0' LT TO STA. 48+01.4, 34.5' LT	12.5 LF

~~ITEM 606.23 GUARDRAIL TYPE 3C~~	
~~STA. 46+37.5, 25.5' LT TO STA. 47+93.9, 26.0' LT.~~	156.25 LF

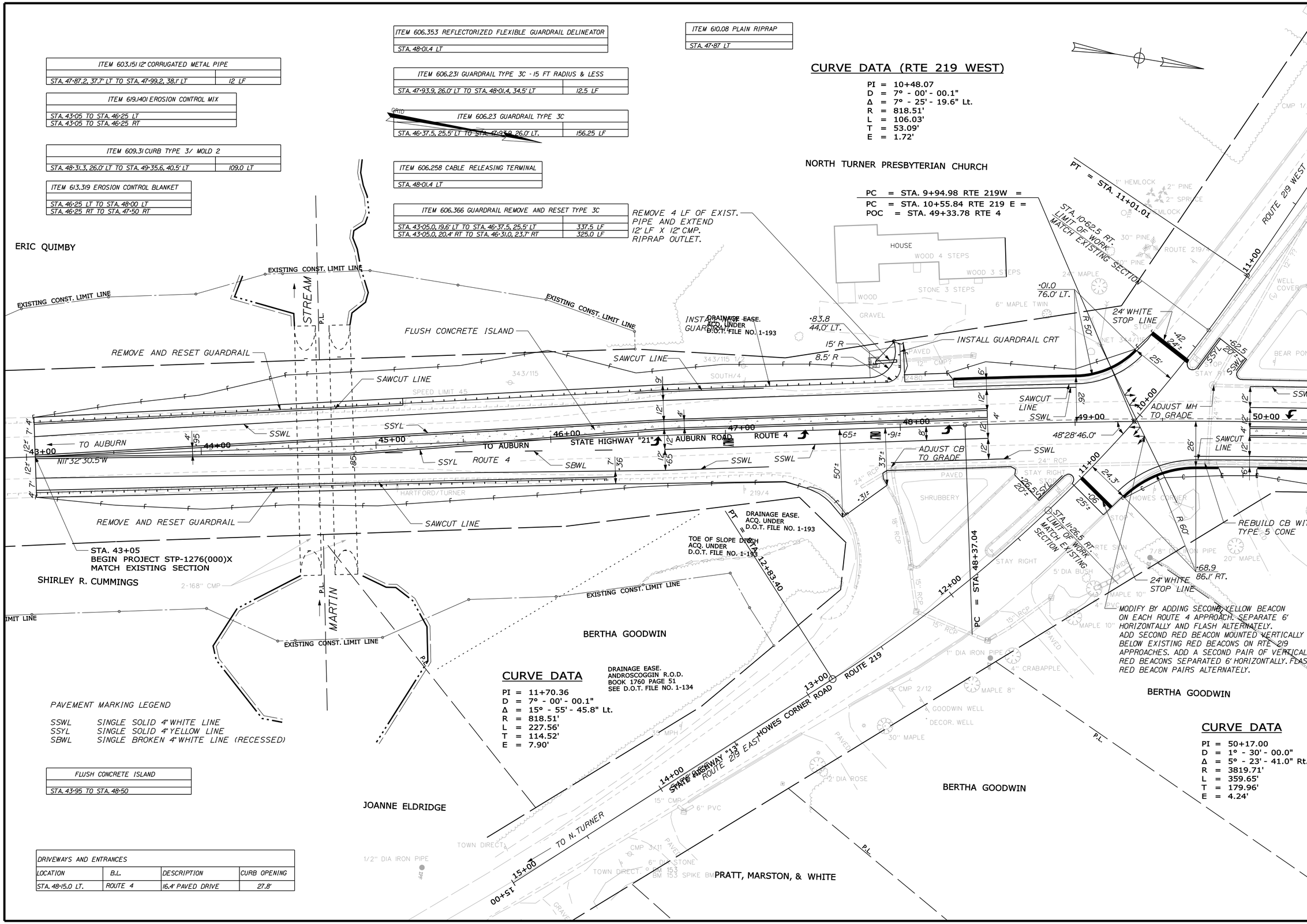
ITEM 606.258 CABLE RELEASING TERMINAL
STA. 48+01.4 LT

ITEM 606.366 GUARDRAIL REMOVE AND RESET TYPE 3C	
STA. 43+05.0, 19.6' LT TO STA. 46+37.5, 25.5' LT	337.5 LF
STA. 43+05.0, 20.4' RT TO STA. 46+31.0, 23.7' RT	325.0 LF

ITEM 610.08 PLAIN RIPRAP
STA. 47+87 LT

CURVE DATA (RTE 219 WEST)

PI = 10+48.07
D = 7° - 00' - 00.1"
Δ = 7° - 25' - 19.6" Lt.
R = 818.51'
L = 106.03'
T = 53.09'
E = 1.72'



CURVE DATA

PI = 11+70.36
D = 7° - 00' - 00.1"
Δ = 15° - 55' - 45.8" Lt.
R = 818.51'
L = 227.56'
T = 114.52'
E = 7.90'

CURVE DATA

PI = 50+17.00
D = 1° - 30' - 00.0"
Δ = 5° - 23' - 41.0" Rt.
R = 3819.71'
L = 359.65'
T = 179.96'
E = 4.24'

PAVEMENT MARKING LEGEND

SSWL SINGLE SOLID 4" WHITE LINE
SSYL SINGLE SOLID 4" YELLOW LINE
SBWL SINGLE BROKEN 4" WHITE LINE (RECESSED)

FLUSH CONCRETE ISLAND
STA. 43+95 TO STA. 48+50

DRIVEWAYS AND ENTRANCES			
LOCATION	B.L.	DESCRIPTION	CURB OPENING
STA. 48+15.0 LT.	ROUTE 4	16.4' PAVED DRIVE	27.8'

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HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
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P.E. NUMBER
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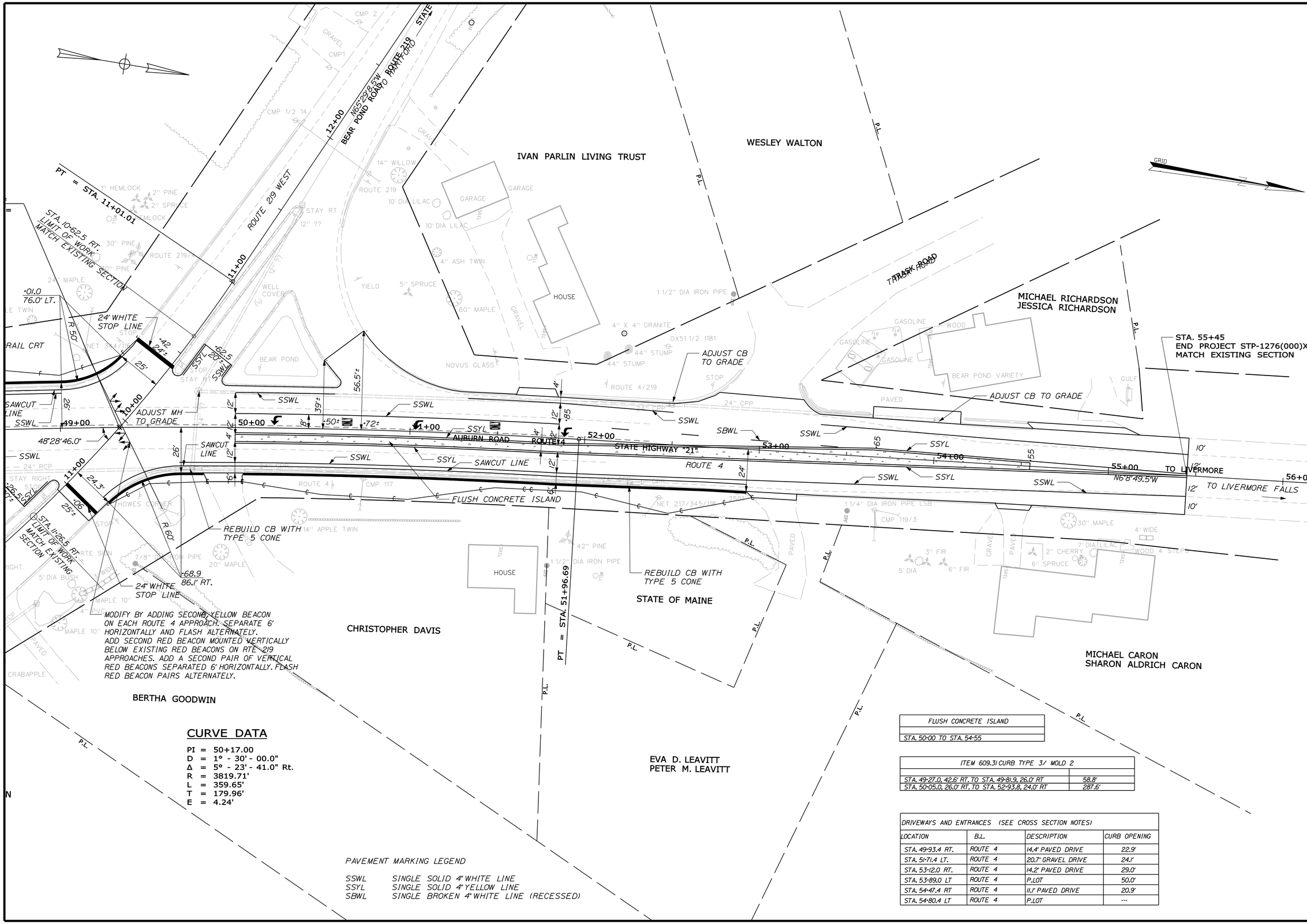
TURNER
ROUTE 4-ROUTE 219

PLANS

SHEET NUMBER
6
OF 17

Filename: ...\highway\msta\006_Plan-01.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010



CURVE DATA

PI = 50+17.00
D = 1° - 30' - 00.0"
Δ = 5° - 23' - 41.0" Rt.
R = 3819.71'
L = 359.65'
T = 179.96'
E = 4.24'

PAVEMENT MARKING LEGEND

SSWL SINGLE SOLID 4" WHITE LINE
SSYL SINGLE SOLID 4" YELLOW LINE
SBWL SINGLE BROKEN 4" WHITE LINE (RECESSED)

FLUSH CONCRETE ISLAND
STA. 50+00 TO STA. 54+55

ITEM 609.31 CURB TYPE 3/ MOLD 2	
STA. 49+27.0, 42.6' RT. TO STA. 49+81.9, 26.0' RT	58.8'
STA. 50+05.0, 26.0' RT. TO STA. 52+93.8, 24.0' RT	287.6'

DRIVEWAYS AND ENTRANCES (SEE CROSS SECTION NOTES)

LOCATION	B.L.	DESCRIPTION	CURB OPENING
STA. 49+93.4 RT.	ROUTE 4	14.4' PAVED DRIVE	22.9'
STA. 51+71.4 LT.	ROUTE 4	20.7' GRAVEL DRIVE	24.1'
STA. 53+12.0 RT.	ROUTE 4	14.2' PAVED DRIVE	29.0'
STA. 53+89.0 LT	ROUTE 4	P.LOT	50.0'
STA. 54+47.4 RT	ROUTE 4	11.1' PAVED DRIVE	20.9'
STA. 54+80.4 LT	ROUTE 4	P.LOT	---

STATE OF MAINE
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STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	JIM FERGUSON	
DESIGN-DETAILED	JLE	3-10
CHECKED-REVIEWED	RCL	3-10
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

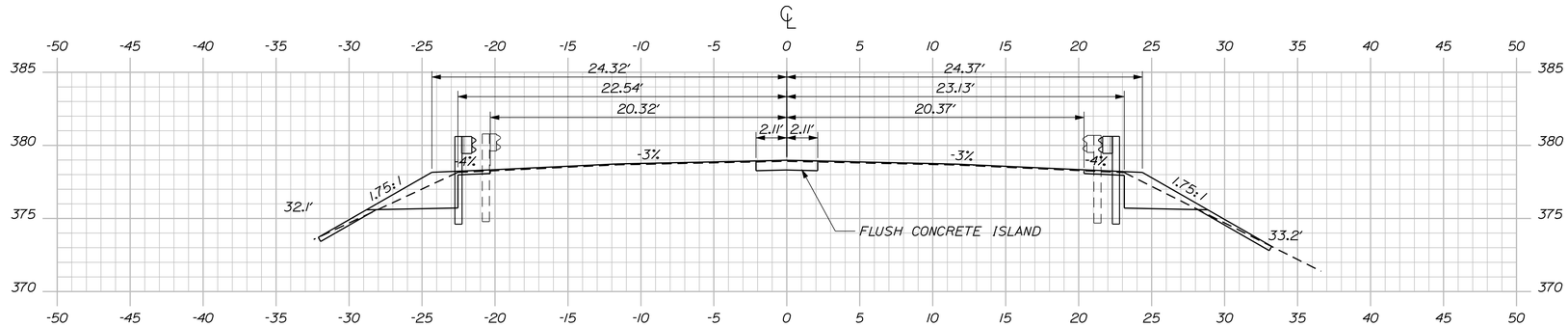
SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

TURNER
ROUTE 4-ROUTE 219

PLANS

SHEET NUMBER
7
OF 17

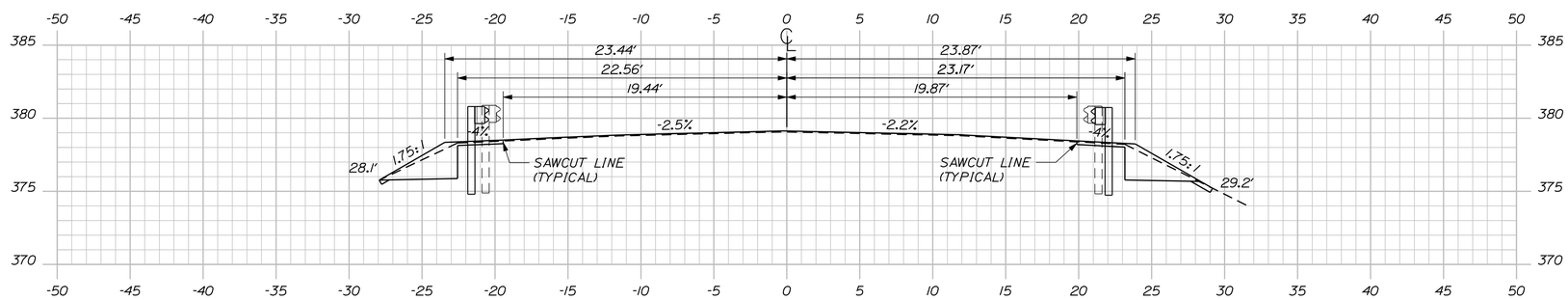
Filename: ...\highway\msta\007_Plan_02.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010



44+00

STA. 43+95 TO STA. 48+50
CONSTRUCT FLUSH CONCRETE ISLAND

C = 24 CY
F = 1 CY



43+50

STA. 43+05± TO STA. 46+37.5± LT
REMOVE AND RESET EXISTING GUARDRAIL

STA. 43+05± TO STA. 46+31± RT
REMOVE AND RESET EXISTING GUARDRAIL

STA. 43+05 TO STA. 45+15 LT
SAWCUT PAVEMENT AND REMOVE BEYOND SAWCUT.
WIDEN SHOULDER WITH BOX SECTION AS SHOWN.
PAVE SHOULDER WITH 3" HMA.

STA. 43+05 TO STA. 46+36 RT
SAWCUT PAVEMENT AND REMOVE BEYOND SAWCUT.
WIDEN SHOULDER WITH BOX SECTION AS SHOWN.
PAVE SHOULDER WITH 3" HMA.

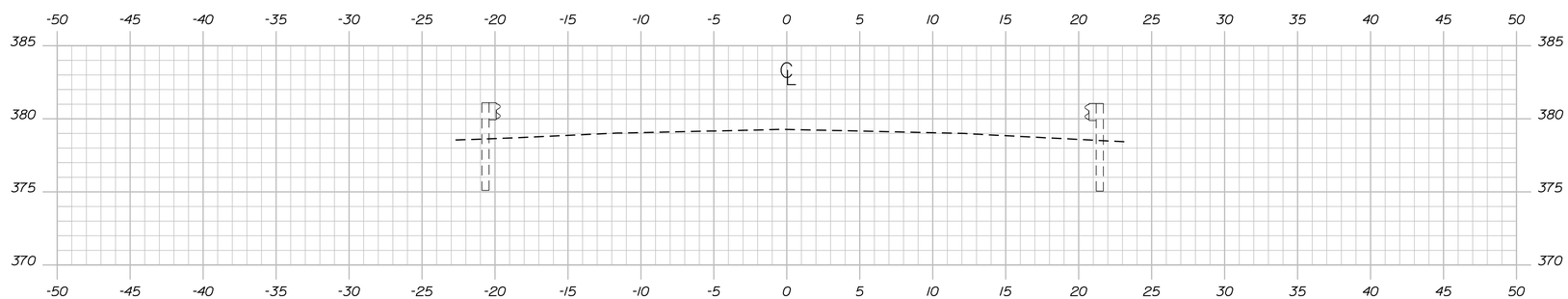
STA. 43+05 TO STA 46+25 LT.
PLACE 4" DEPTH EROSION CONTROL MIX ON SLOPE.

STA. 43+05 TO STA. 43+38.75
CONSTRUCT PAVEMENT BUTT JOINT

C = 11 CY
F = 0 CY

STA. 43+05
BEGIN PROJECT 1276(000)X
BEGIN 0.75 " OVERLAY
MATCH EXISTING SECTION

STA. 43+05 TO STA 46+25 RT.
PLACE 4" DEPTH EROSION CONTROL MIX ON SLOPE.



43+00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
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P.E. NUMBER
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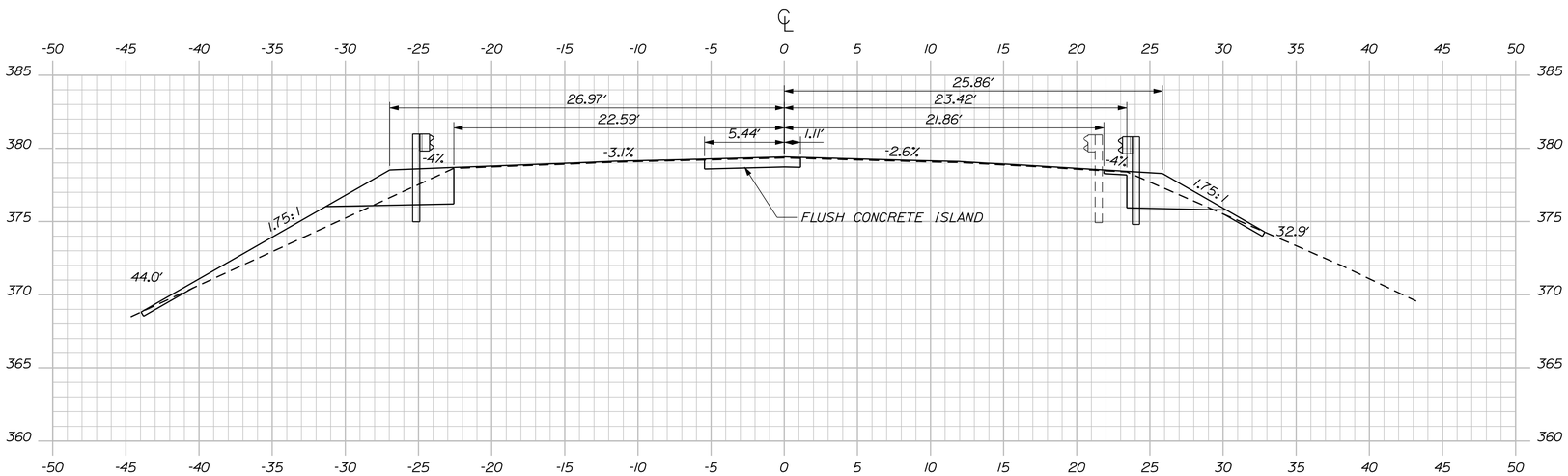
DATE

TURNER
ROUTE 4-ROUTE 219

43+00 CROSS SECTIONS 44+00

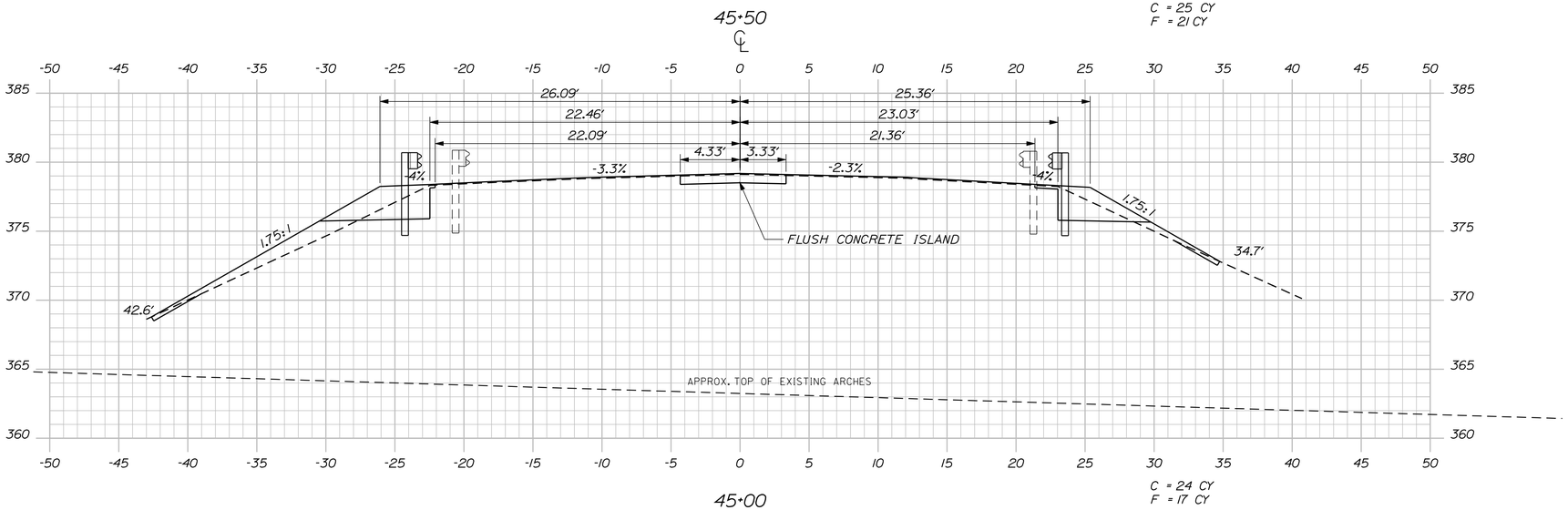
SHEET NUMBER
8
OF 17

Filename: ...\highway\msta\008_Xsect_001.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010



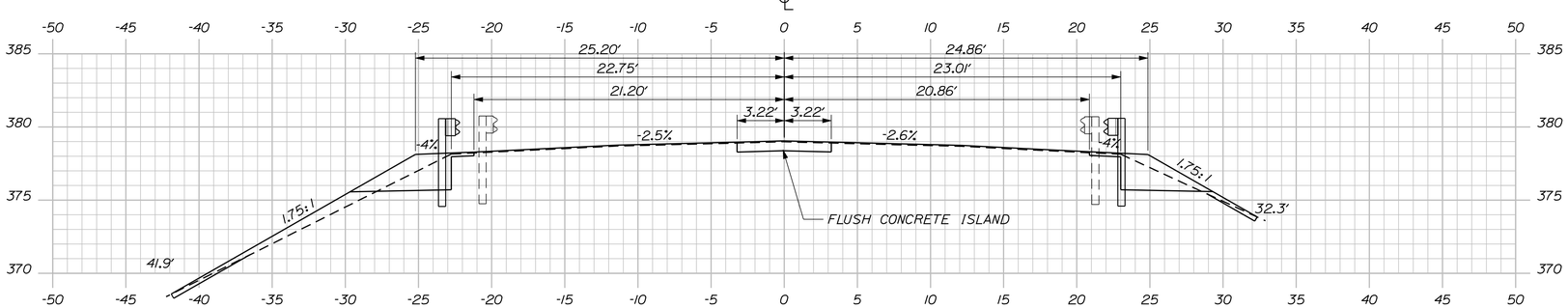
C = 25 CY
F = 21 CY

45+50



C = 24 CY
F = 17 CY

45+00



C = 24 CY
F = 8 CY

44+50

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON		
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

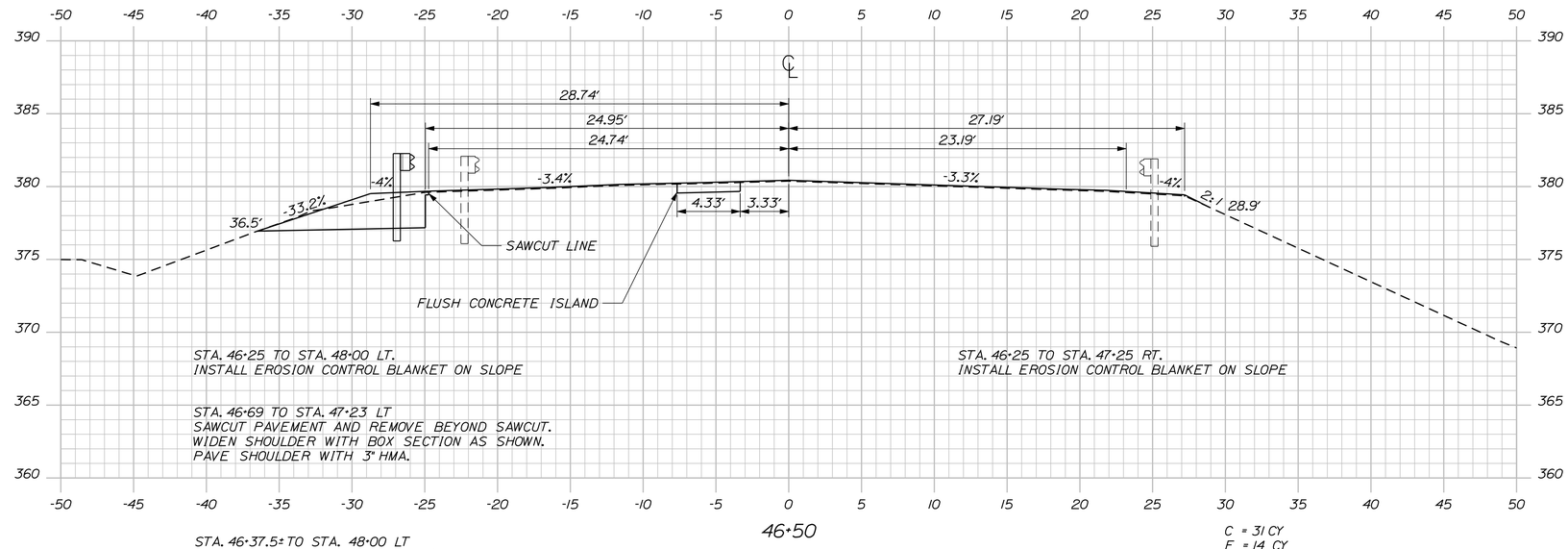
TURNER
ROUTE 4-ROUTE 219

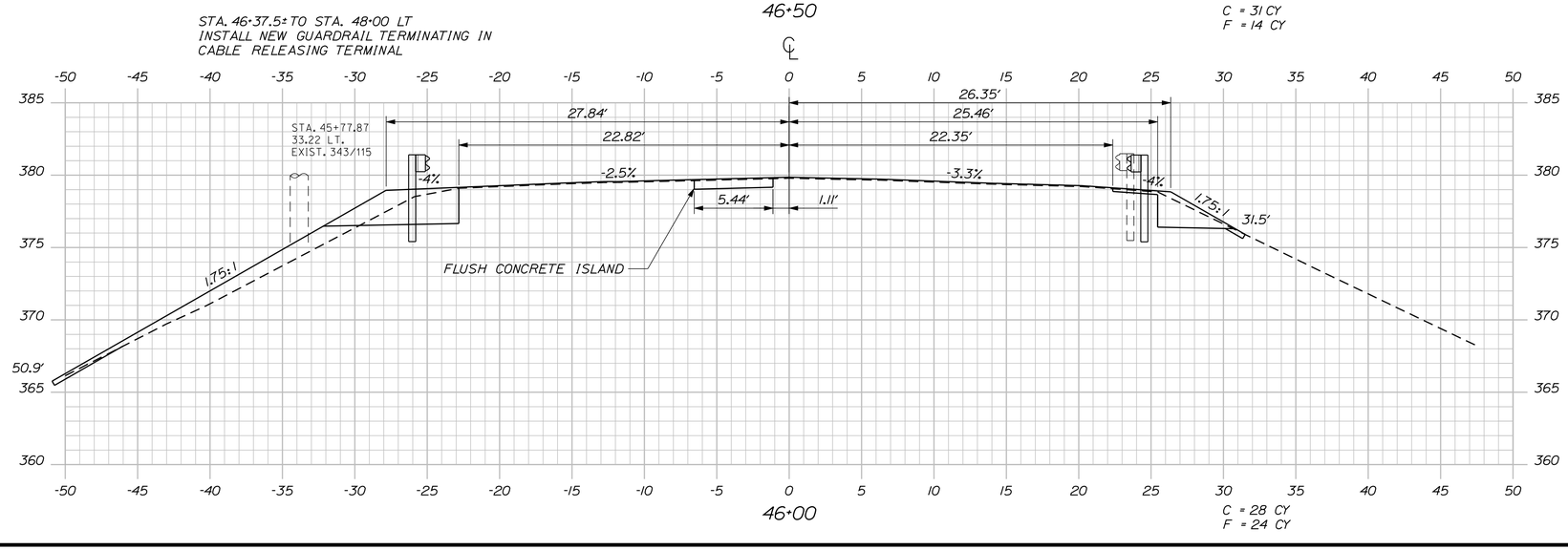
CROSS SECTIONS

44+50 45+50

SHEET NUMBER
9
OF 17

Filename: ...\highway\msto\009_Xsect_002.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
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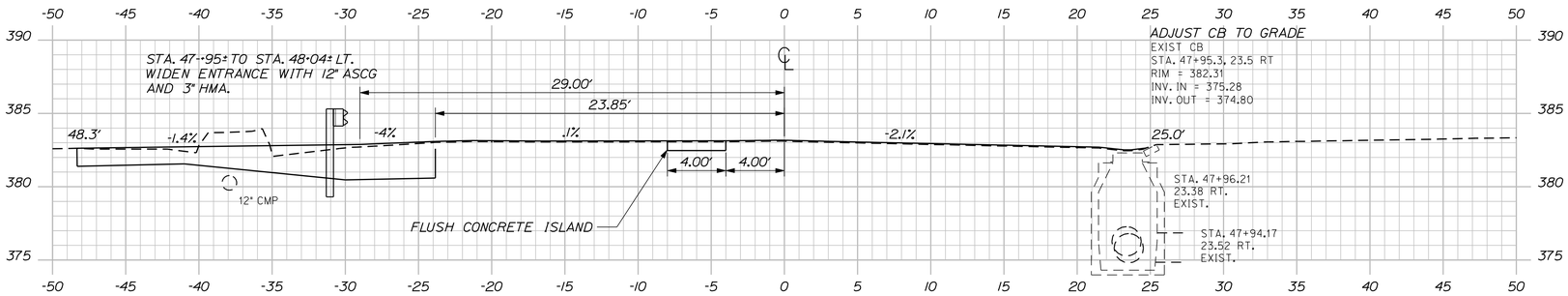
P.E. NUMBER
MARCH 29, 2010
DATE

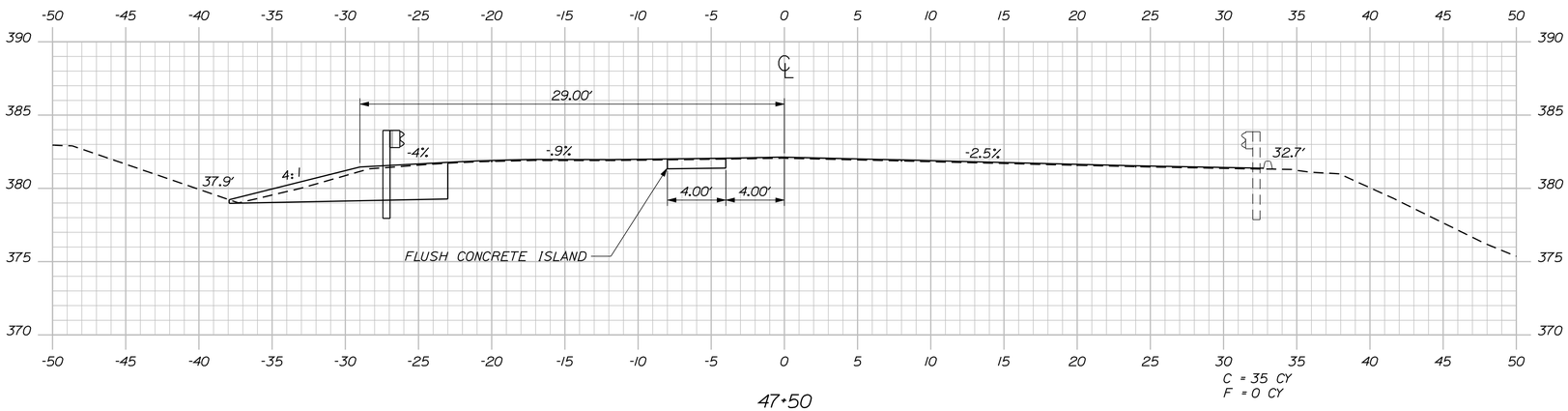
TURNER
ROUTE 4-ROUTE 219

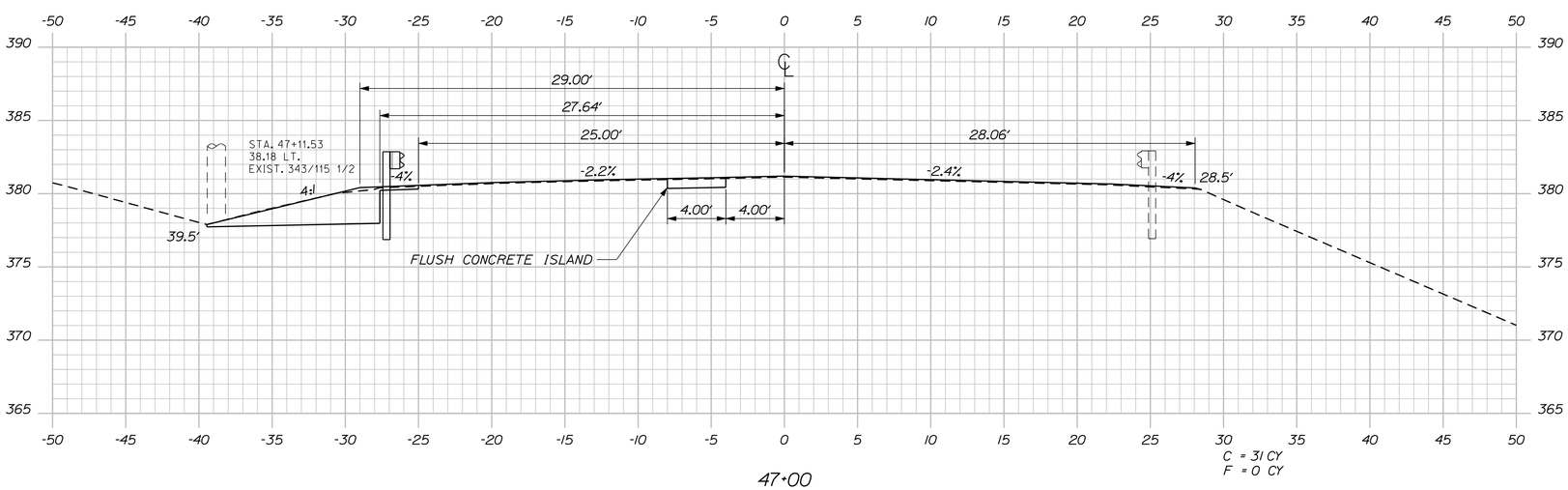
46+00 CROSS SECTIONS 46+50

SHEET NUMBER
10
OF 17

Filename: ...\highway\msto\010_Xsect_003.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

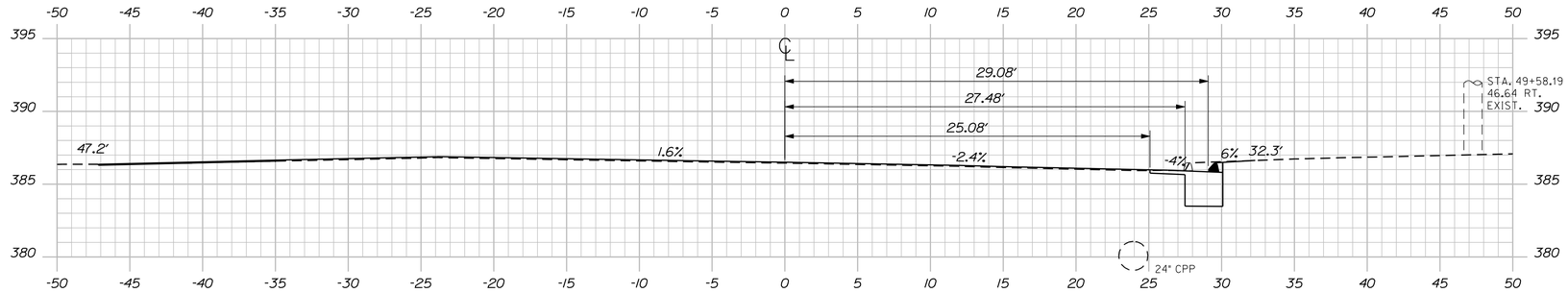
SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

TURNER
ROUTE 4-ROUTE 219

47+00 CROSS SECTIONS 48+00

SHEET NUMBER
11
OF 17

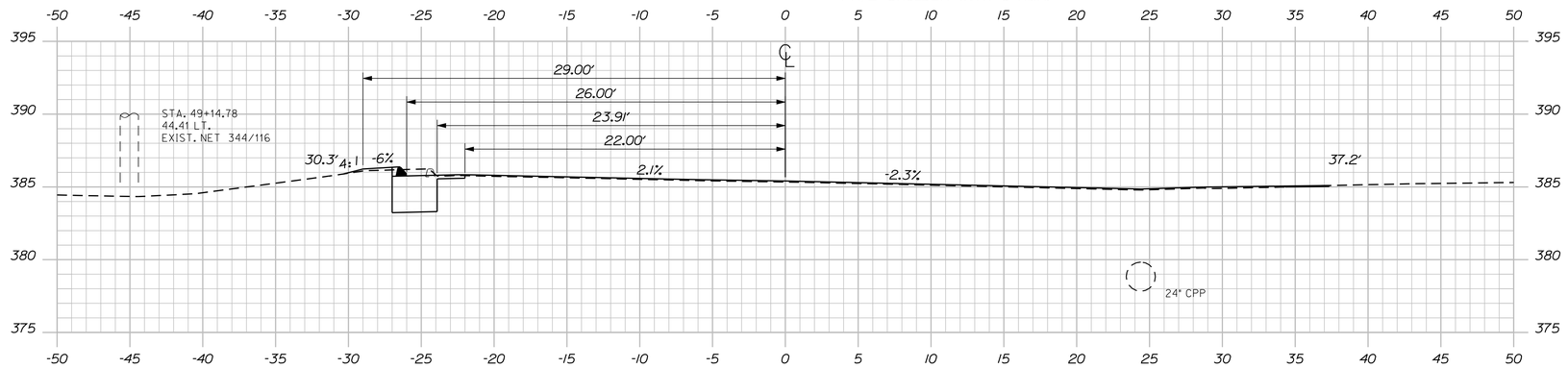
Filename: ...\highway\mnsta\011_Xsect_004.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010



49+50

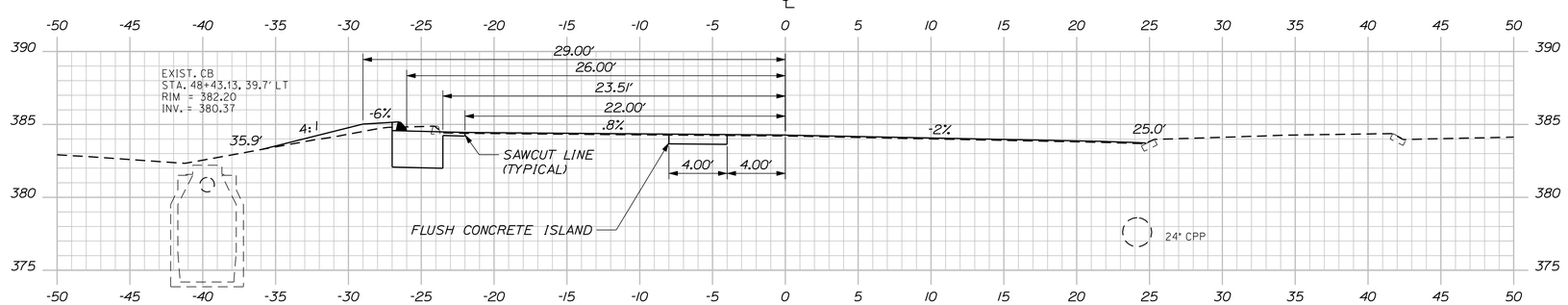
STA. 49+24 TO STA. 52+94 RT
SAWCUT PAVEMENT AND REMOVE BEYOND SAWCUT.
WIDEN SHOULDER WITH BOX SECTION AS SHOWN.
PAVE SHOLDER WITH 3" HMA.

C = 9 CY
F = 0 CY



49+00

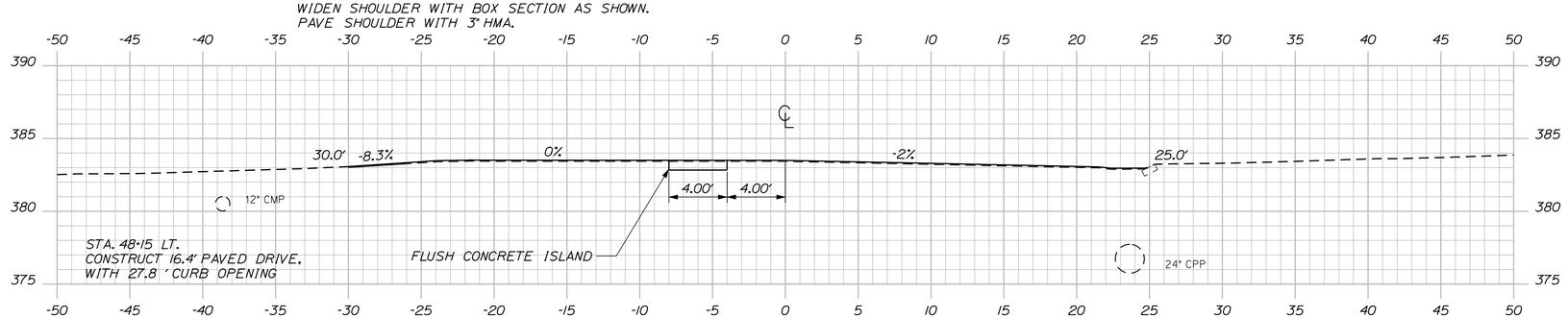
C = 17 CY
F = 3 CY



STA. 48+32 TO STA. 49+38 LT.
SAWCUT PAVEMENT AND REMOVE BEYOND SAWCUT.
WIDEN SHOULDER WITH BOX SECTION AS SHOWN.
PAVE SHOULDER WITH 3" HMA.

48+50

C = 12 CY
F = 2 CY



48+15

STATE OF MAINE
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PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE	
DESIGN-DETAILED	JLE	RCL	3-10	
CHECKED-REVIEWED	ALG		3-10	SIGNATURE
DESIGN2-DETAILED2				7960
DESIGN3-DETAILED3				P.E. NUMBER
REVISIONS 1				MARCH 29, 2010
REVISIONS 2				DATE
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

TURNER
ROUTE 4-ROUTE 219

CROSS SECTIONS

49+50

48+15

SHEET NUMBER

12

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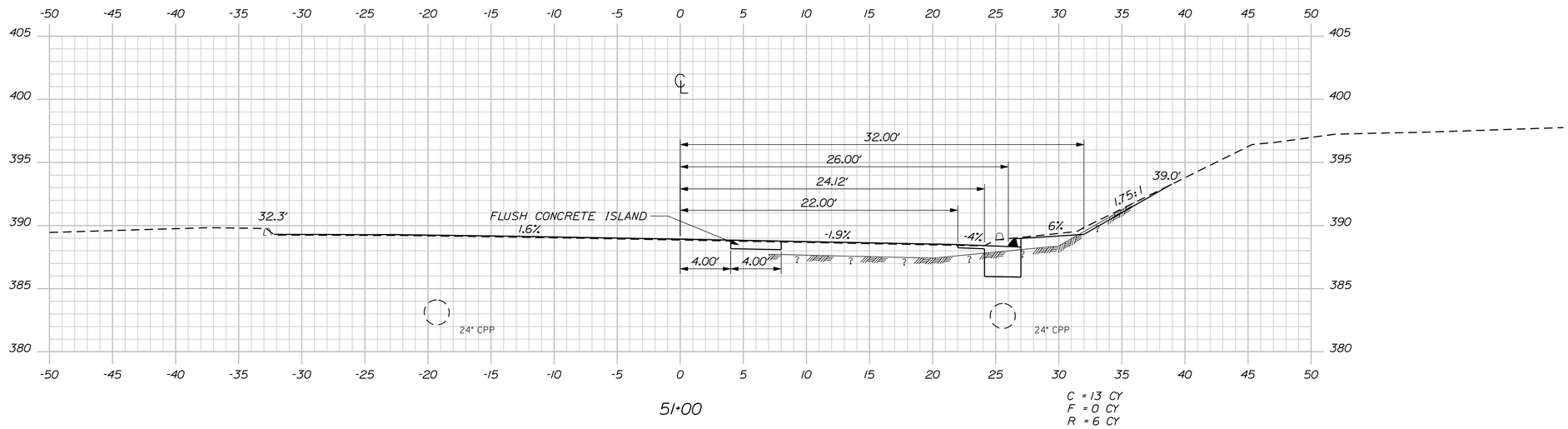
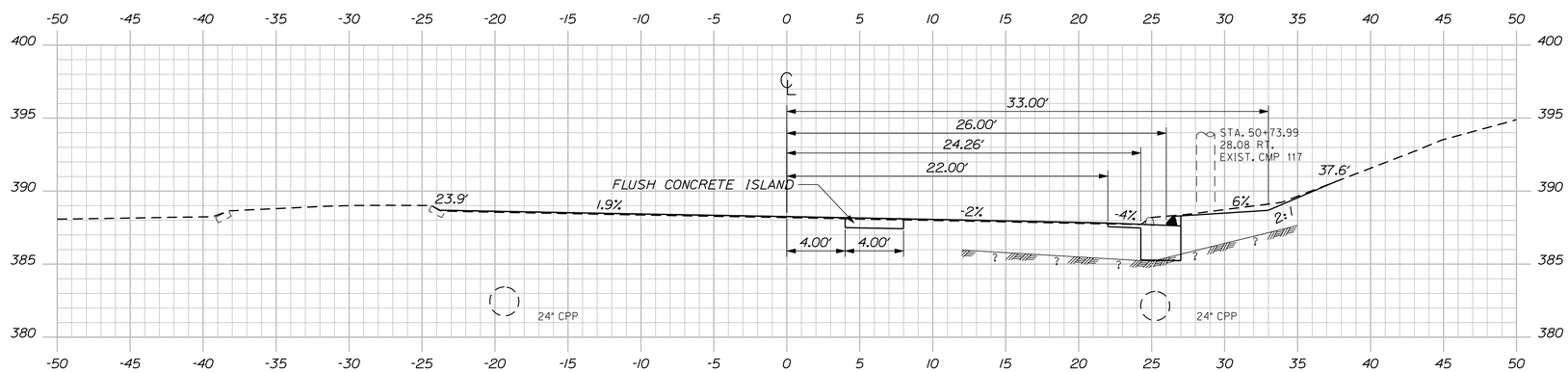
Filename: ...\highway\msta\012_Xsect_005.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010



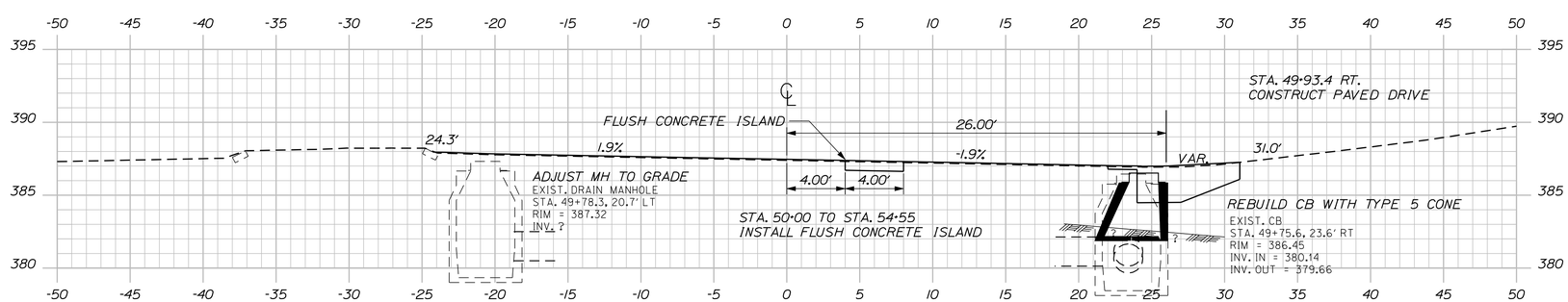
51+00

C = 13 CY
F = 0 CY
R = 6 CY



50+50

C = 16 CY
F = 0 CY



50+00

C = 11 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

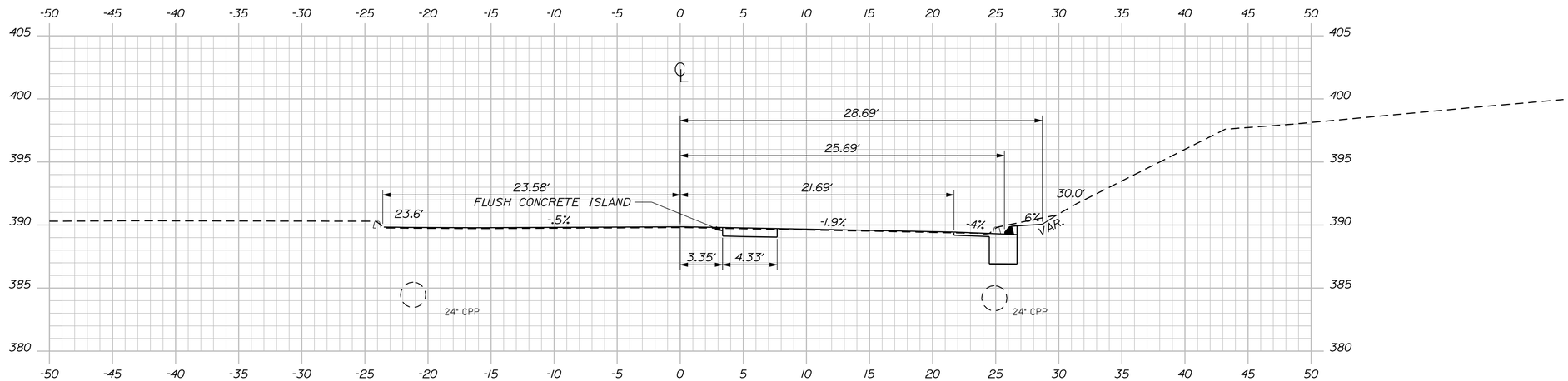
TURNER
ROUTE 4-ROUTE 219

CROSS SECTIONS

50+00 51+00

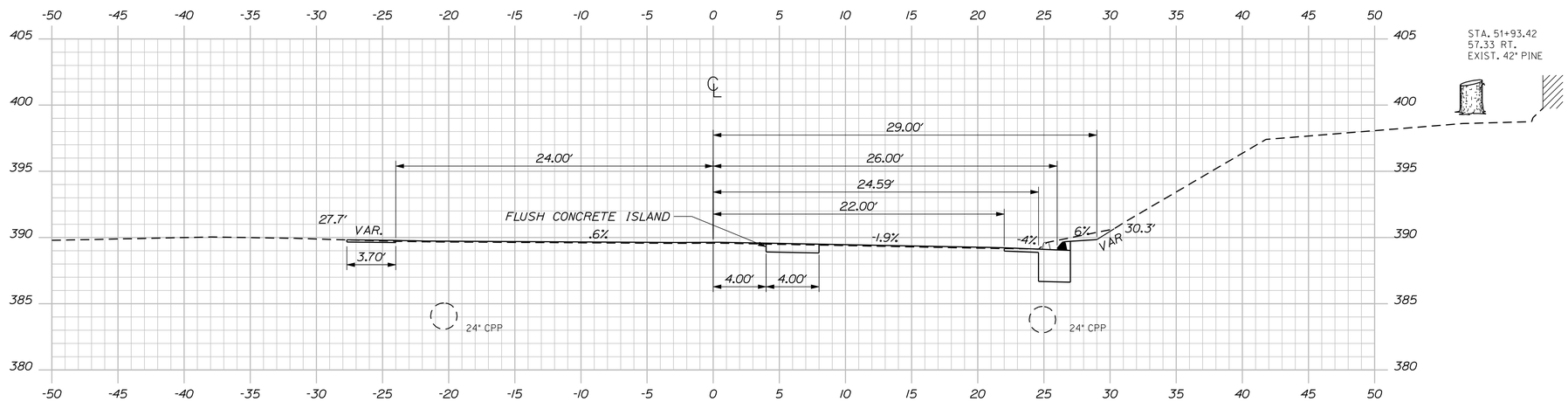
SHEET NUMBER
13
OF 17

Filename: ...\highway\msto\013_Xsect_006.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010



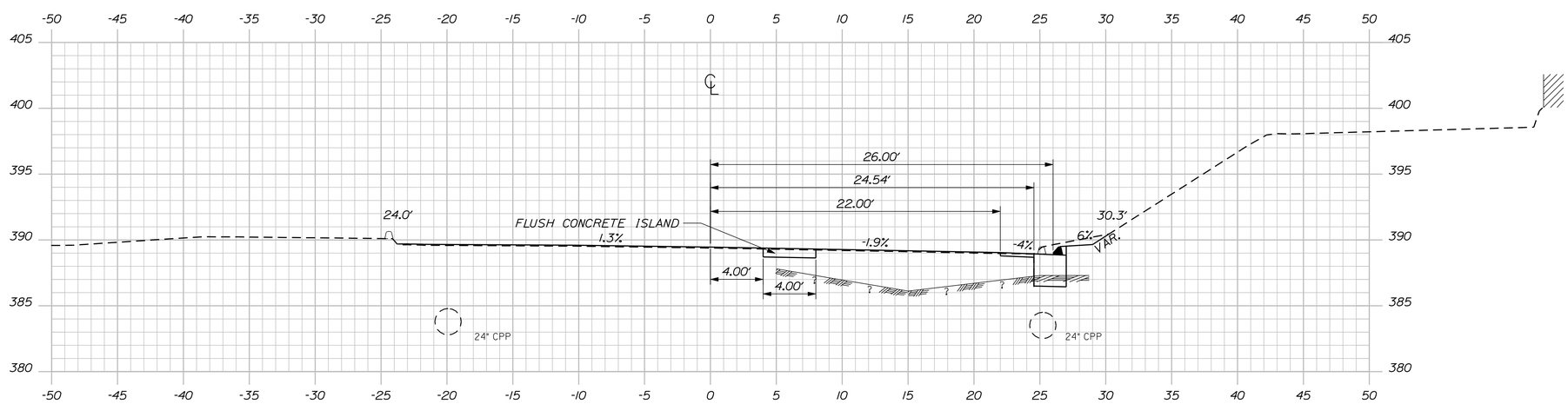
52+00

C = 14 CY
F = 0 CY
R = 1CY



STA. 51+71.4 LT.
CONSTRUCT 20.7' PAVED LIP, 2" HMA DEPTH.
WITH 24.1' CURB OPENING

51+71



51+50

C = 9 CY
F = 0 CY
R = 7 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE		
CHECKED-REVIEWED	ALG	RCL	3-10
DESIGN2-DETAILED2			3-10
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

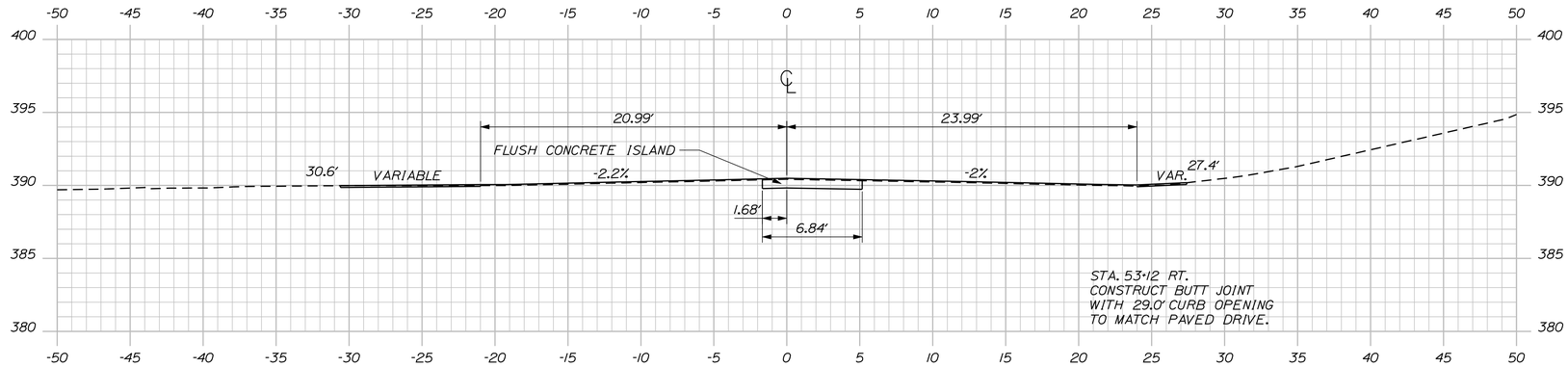
TURNER
ROUTE 4-ROUTE 219

CROSS SECTIONS

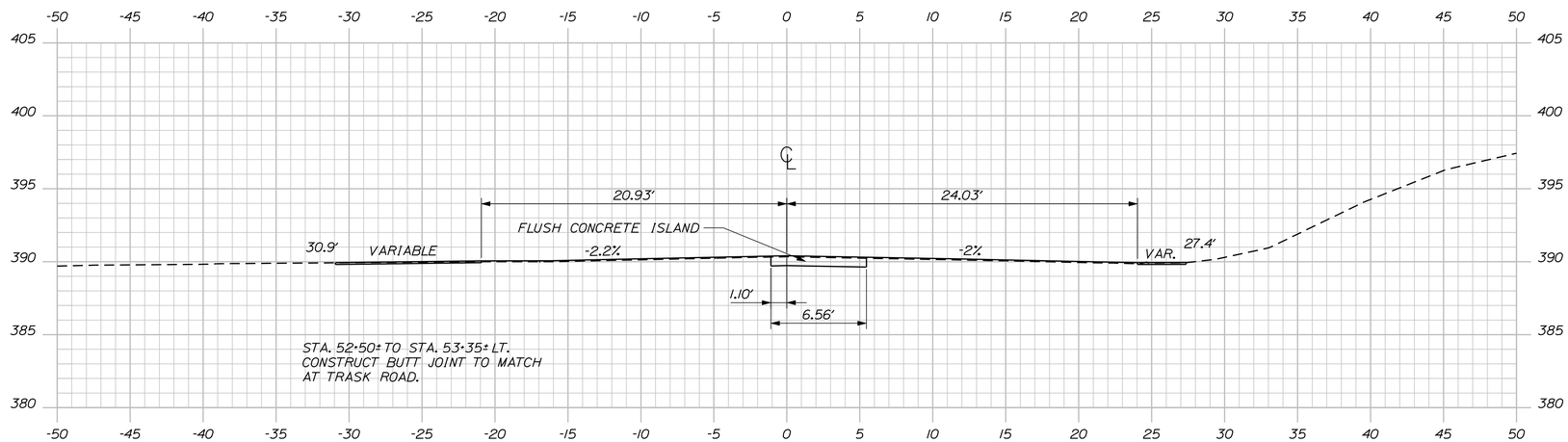
51+50 52+00

SHEET NUMBER
14
OF 17

Filename: ...\highway\msta\014_Xsect_007.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010

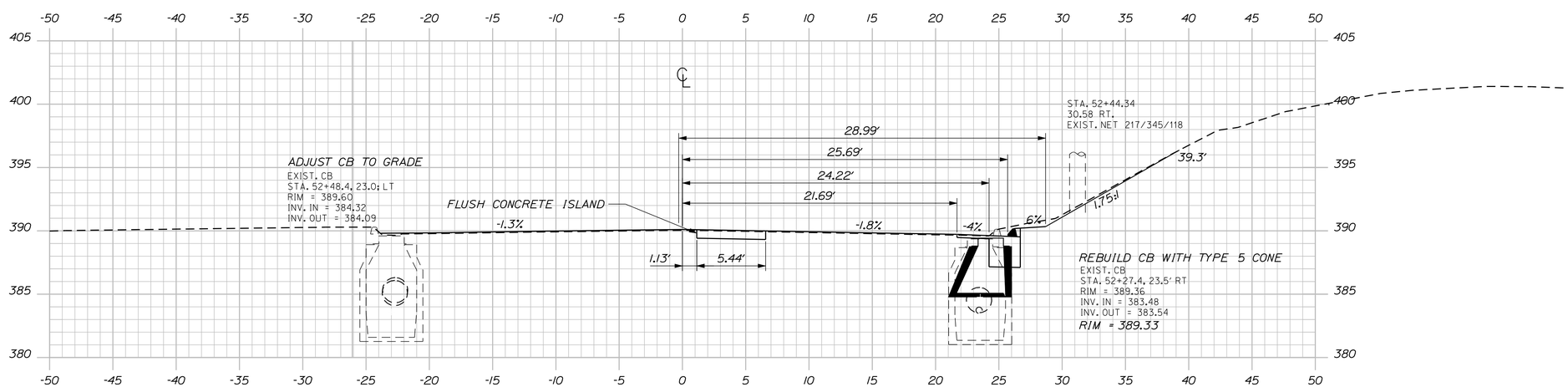


53+13



53+00

C = 9 CY
F = 0 CY



52+50

C = 16 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE	RCL	3-10
CHECKED-REVIEWED	ALG		3-10
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DESIGN3-DETAILED3			
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REVISIONS 3			
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FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MARCH 29, 2010
DATE

TURNER
ROUTE 4-ROUTE 219

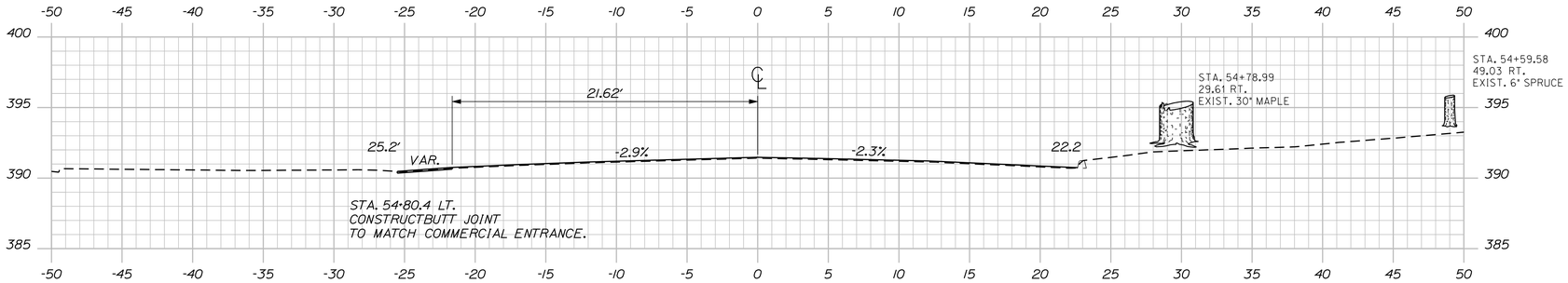
CROSS SECTIONS

53+13

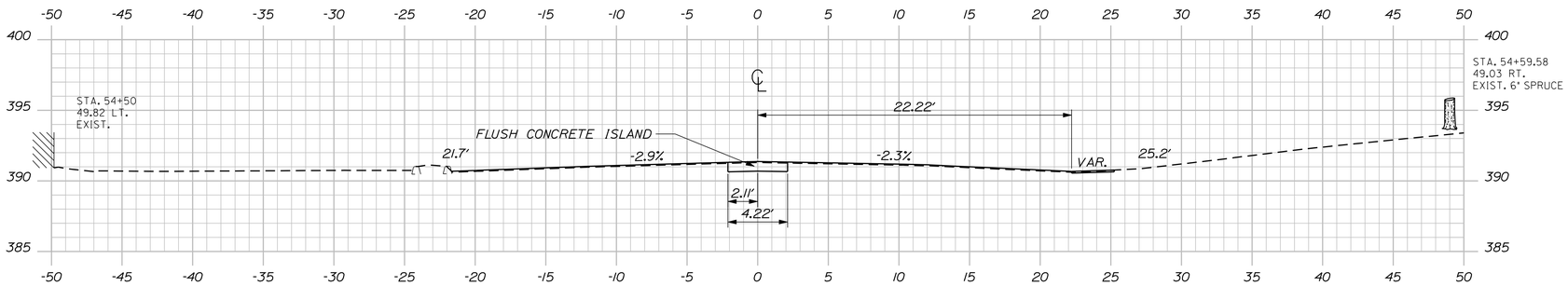
52+50

SHEET NUMBER
15
OF 17

Filename: ...\highway\rmsto\015_Xsect_008.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010



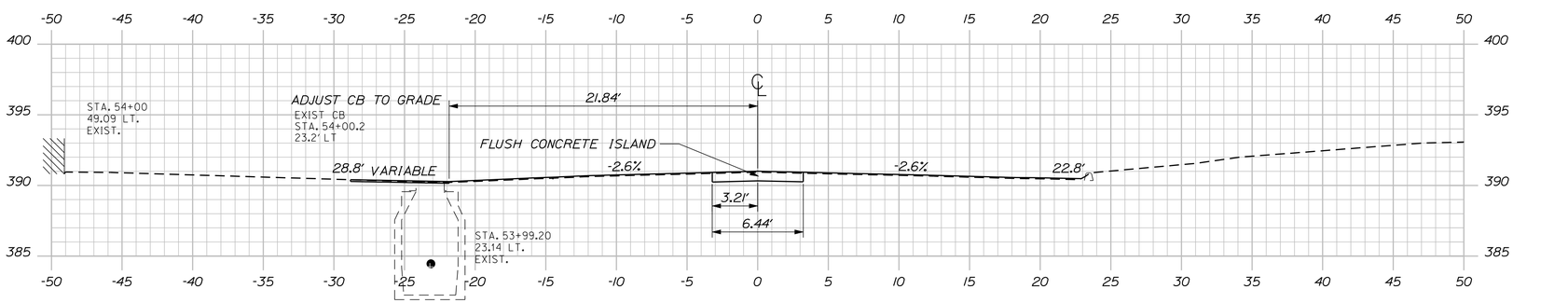
54+68



54+50

STA. 54+47.4 RT.
CONSTRUCT BUTT JOINT
TO MATCH PAVED DRIVE.

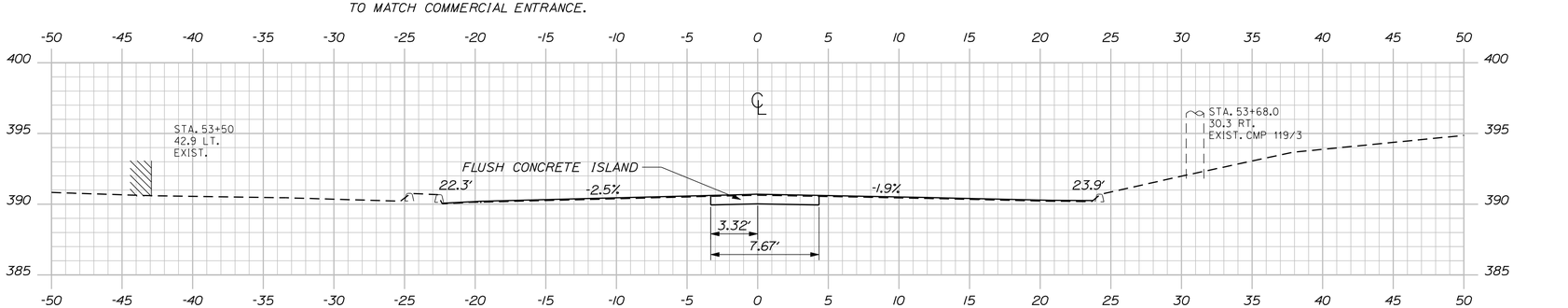
C = 0 CY
F = 0 CY



STA. 53+89.0 LT.
CONSTRUCT BUTT JOINT
TO MATCH COMMERCIAL ENTRANCE.

54+00

C = 0 CY
F = 0 CY



53+50

C = 0 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON		
DESIGN-DETAILED	JLE	RCL	3-10
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TURNER
ROUTE 4-ROUTE 219

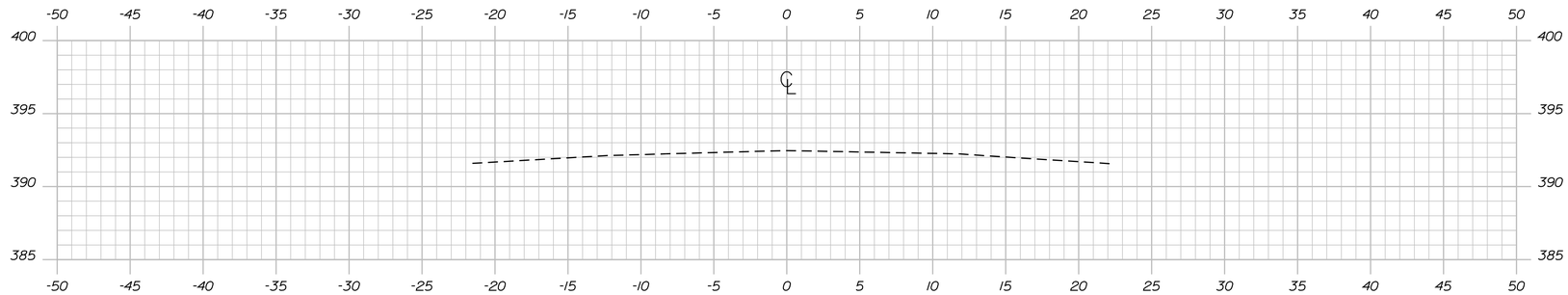
CROSS SECTIONS

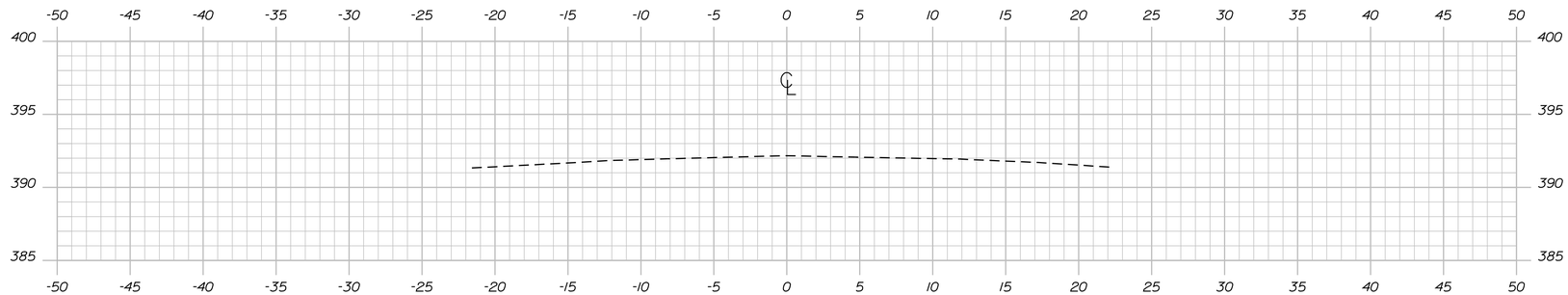
54+68

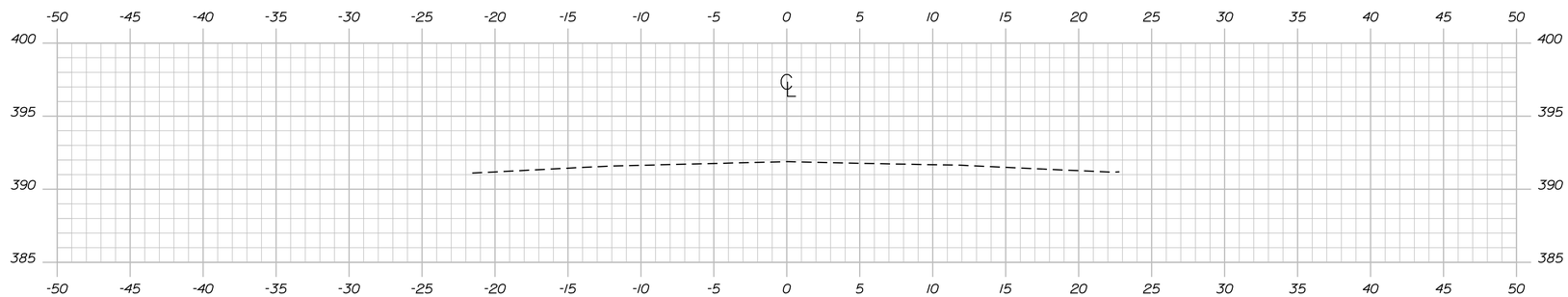
53+50

SHEET NUMBER
16
OF 17

Filename: ...\highway\msta\016_Xsect_009.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010

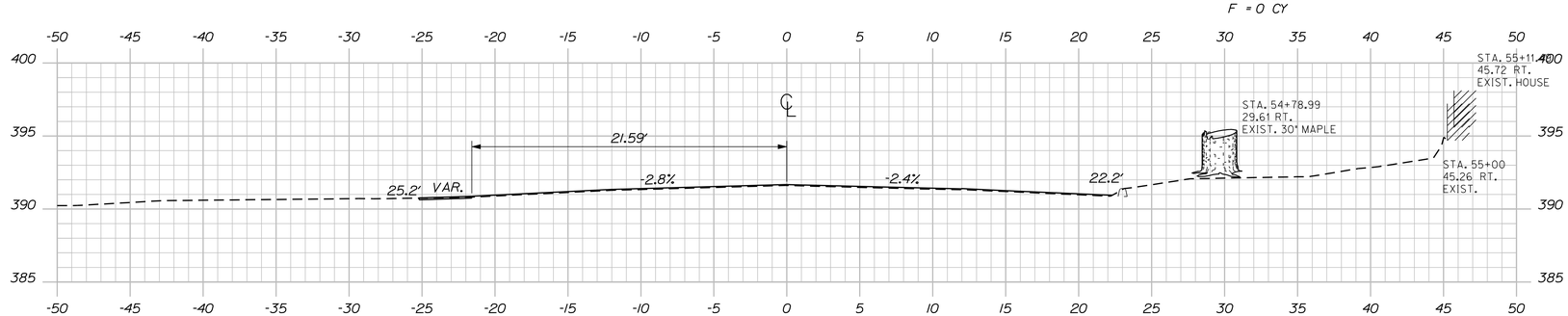






STA. 55+45
END 0.75" OVERLAY
END PROJECT STP-1276(000)X
MATCH EXISTING SECTION

C = 0 CY
F = 0 CY



C = 0 CY
F = 0 CY

55+00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1276(000)X

PIN
12760.00

HIGHWAY PLANS

PROJ. MANAGER	JIM FERGUSON	BY	DATE
DESIGN-DETAILED	JLE	RCL	3-10
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DESIGN3-DETAILED3			
REVISIONS 1			
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DATE

TURNER
ROUTE 4-ROUTE 219

56+50

CROSS SECTIONS

55+00

SHEET NUMBER
17
OF 17

Filename: ...\highway\rnsta\017_Xsect_010.dgn Division: HIGHWAY Username: rhobe.moulton Date:4/1/2010