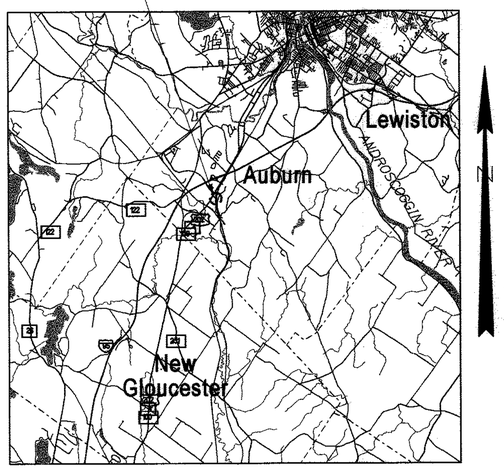
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TMSI

AUBURN
ANDROSCOGGIN COUNTY
STATION ROAD
STP-1728(310)X
PROJECT LENGTH : 0.179 MILES
RAIL-HIGHWAY CROSSING IMPROVEMENT

PROJECT LOCATION
STP-1728(310)X



LOCATION MAP

2 0 2 4
Scale in Miles

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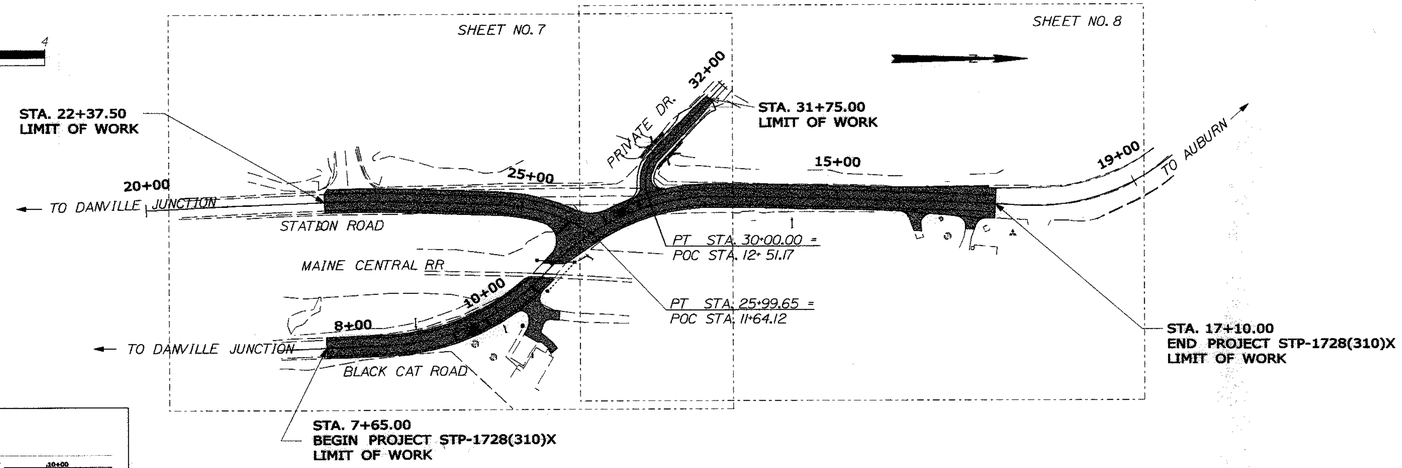
TRAFFIC DATA

Current (2011) AADT	320
Future (2031) AADT	385
DHV - % of AADT	11%
Design Hour Volume	45
% Heavy Trucks (AADT)	2%
% Heavy Trucks (DHV)	2%
Directional Distribution (DHV)	50%
18 kip Equivalent P 2.0	2.5
18 kip Equivalent P 2.5	2.5
Design Speed (mph)	25
Functional Class:	LOCAL



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: RAIL-HIGHWAY CROSSING
SCOPE OF WORK: RAIL/HIGHWAY CROSSING INTERSECTION IMPROVEMENTS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: DATE 6/6/11
CHIEF ENGINEER: DATE 6/2/11

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED
PROFESSIONAL ENGINEER
SIGNATURE
P.E. NUMBER 7960
MAY 25, 2011
DATE

PROJECT INFORMATION

PROGRAM	MULTI-MODAL
PROJECT MANAGER	JOEL KITTREDGE
DESIGNER	JAMES EASON/AL GODFREY
CONSULTANT	TERRA MAGNA SERVICES, INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

PIN 17283.10

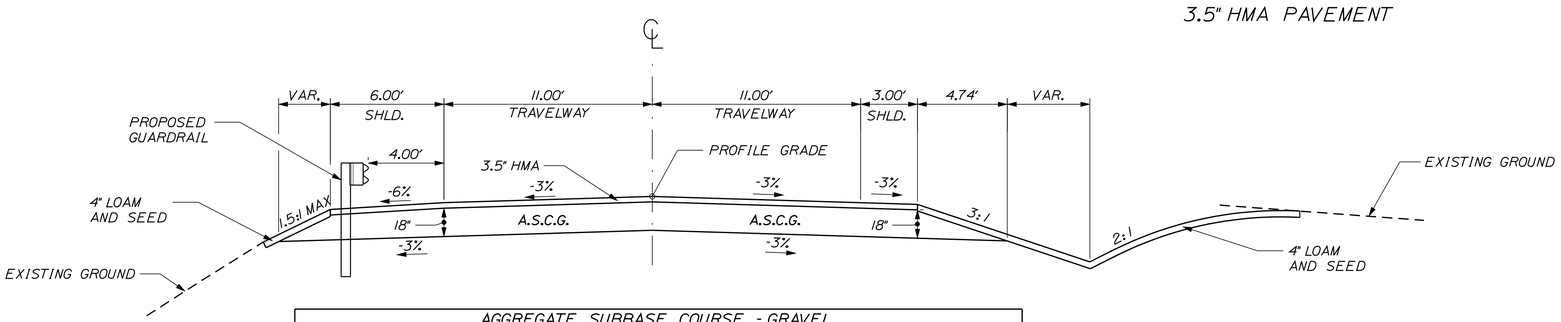
STP-1728(310)X

AUBURN
STATION ROAD

TITLE SHEET

SHEET NUMBER
1
OF 40

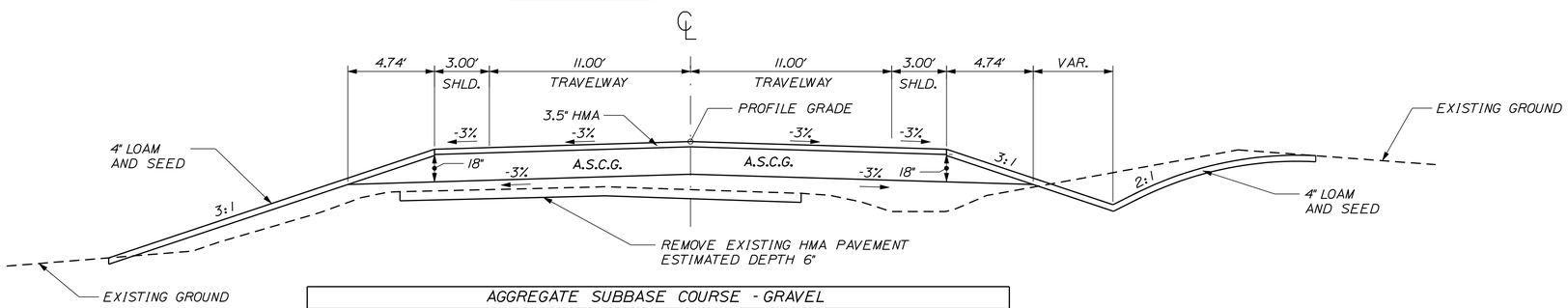
Filename: ...\HIGHWAY\MSTA\001_Title_01.dgn Division: HIGHWAY Username: jeason Date:5/25/2011



AGGREGATE SUBBASE COURSE - GRAVEL		
GUARDRAIL LEFT SHOULDER 37.33 CY/100 LF	22 FOOT TRAVELWAY 122.22 CY/100 LF	RIGHT SHOULDER 29.30 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
11+96 TO 17+00	11+50 TO 17+00	11+50 TO 17+00
22+37.5 TO 25+50	22+37.5 TO 25+50	22+37.5 TO 25+50

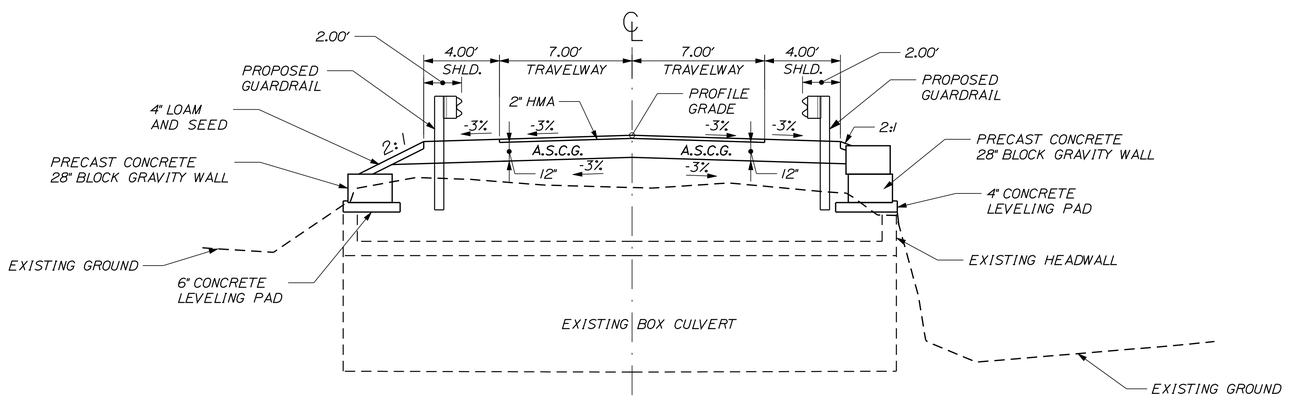
STA. 22+37.5 TO STA. 15+79
REMOVE EXIST. 9" CONCRETE PAVEMENT

BLACK CAT ROAD
STATION ROAD



AGGREGATE SUBBASE COURSE - GRAVEL
22 FOOT TRAVELWAY W/ 3 FOOT SHOULDER 180.67 CY/100 LF
STATION TO STATION
7+75 TO STA. 11+50

BLACK CAT ROAD



AGGREGATE SUBBASE COURSE - GRAVEL
14 FOOT TRAVELWAY WITH 4 FOOT SHOULDERS 92.52 CY/100 LF
STATION TO STATION
7+75 TO STA. 11+50

PRIVATE DRIVE

NOTES:

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. EXCEPT WHERE NOTED, THE GRAVEL QUANTITY CALCULATION IS BASED ON 4" LOAM. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
4. THE ALGEBRAIC DIFFERENCE BETWEEN SHOULDER AND TRAVELWAY CROSS SLOPE "ROLLOVER" SHALL NOT EXCEED 8%.
5. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
6. A.S.C.G. = AGGREGATE SUBBASE COURSE - GRAVEL
   H.M.A. = HOT MIX ASPHALT

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN 17283.10

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED	JLE	5-11
CHECKED-REVIEWED	ALG	5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

TYPICAL SECTIONS

SHEET NUMBER
2
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

ESTIMATED QUANTITIES

	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
	201.11	CLEARING	1	AC
	201.23	REMOVING SINGLE TREE - TOP ONLY	1	EA
	201.24	REMOVING STUMP	2	EA
	202.11	REMOVE PORTLAND CEMENT CONCRETE PAVEMENT	1,850	SY
	202.203	PAVEMENT BUTT JOINTS	160	SY
	203.20	COMMON EXCAVATION	2,600	CY
	203.24	COMMON BORROW	1,700	CY
*	203.25	GRANULAR BORROW	250	CY
*	206.061	STRUCT EARTH EXC-DRAIN & MINOR STRUCT-BELOW GRADE	10	CY
	304.10	AGGREGATE SUBBASE COURSE - GRAVEL	2,600	CY
	403.208	HOT MIX ASPHALT, 12.5mm SURFACE	360	TON
	403.209	HOT MIX ASPHALT, 9.5mm (SW, DRIVES, INCIDENTALS)	53	TON
	403.213	HOT MIX ASPHALT, 12.5mm BASE	480	TON
	409.15	BITUMINOUS TACK COAT - APPLIED	220	GAL
	603.16	15" CULVERT PIPE OPTION I	36	LF
	603.165	15" RCP CLASS III	4	LF
	604.164	REBUILDING CATCH BASIN	1	EA
	606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	700	LF
	606.231	GUARDRAIL TYPE 3C - 15' RADIUS AND LESS	30	LF
	606.232	GUARDRAIL TYPE 3C - OVER 15' RADIUS	188	LF
	606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	12	EA
	606.363	GUARDRAIL REMOVE AND DISPOSE	40	LF
	606.365	GUARDRAIL REM/MOD/RESET TYPE 3B TO 3C	100	LF
	606.47	SINGLE WOOD POST	2	EA
*	606.48	SINGLE GALVANIZED STEEL POST	5	EA
	606.79	GUARDRAIL 350 FLARED TERMINAL	2	EA
	610.08	PLAIN RIPRAP	40	CY
	613.319	EROSION CONTROL BLANKET	1,250	SY
	615.0701	LOAM - PLAN QUANTITY	400	CY
	618.1301	SEEDING METHOD NUMBER 1 - PLAN QUANTITY	2	UNIT
	618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	18	UNIT
	618.1411	SEEDING METHOD NUMBER 3 - PLAN QUANTITY	14	UNIT
	619.1201	MULCH - PLAN QUANTITY	32	UNIT
	620.58	EROSION CONTROL GEOTEXTILE	80	SY
	626.11	PRECAST CONCRETE JUNCTION BOX	3	EA
	626.21	METALLIC CONDUIT	60	LF
	626.22	NON-METALLIC CONDUIT	30	LF
	627.733	4" WHITE OR YELLOW PAINT PVMT MARKING LINE	3,750	LF
	627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	320	SF
	627.76	TEMP PVMT MAKR LINE, WHITE OR YELLOW	1	LS
	629.05	HAND LABOR	5	HR
	631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
	631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	10	HR
631.20	STUMP CHIPPER (INCLUDING OPERATOR)	10	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	10	HR
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	5	HR
635.31	PREFAB CONCRETE BLOCK GRAVITY WALL	305	SF
369.18	FIELD OFFICE TYPE A	1	EA
645.106	DEMOUNT REG. WRN. CON. & RTE SIGN	11	EA
645.116	REINSTALL REG. WRN. CON. & RTE SIGN	10	EA
645.271	REG. WARN. CONF. RTE SIGNS TYPE I	70	SF
652.31	TYPE I BARRICADE	5	EA
652.311	TYPE II BARRICADE	5	EA
652.33	DRUM	40	EA
652.34	CONE	40	EA
652.35	CONSTRUCTION SIGNS	420	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	2,250	HR
656.75	TEMP SOIL EROSION AND WATER POLLUTION CONTROL PLAN	1	LS
659.10	MOBILIZATION	1	LS

SUMMARY OF EARTHWORK AND BORROW

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	2,744 CY	
GRUBBING IN FILL	284 CY	
CONCRETE PAVEMENT	-461 CY	
TOTAL COMMON EXCAVATION		2,567 CY

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	2,881 CY	
GRUBBING IN FILL	284 CY	
TOTAL FILL		3,165 CY

ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION	0 CY	
TOTAL ROCK EXCAVATION		0 CY

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS — 2,567 CY

(1) TOTAL COMMON EXCAVATION

DEDUCTIONS:

GRUBBING IN CUT	250 CY	
GRUBBING IN FILL	284 CY	
HMA PAVEMENT SALVAGE REMOVAL	271 CY	
(2) TOTAL DEDUCTIONS		805 CY
TOTAL AVAILABLE NON-ROCK EXCAVATION (1) MINUS (2)		1,762 CY

COMPUTATION OF COMMON BORROW FOR ESTIMATE

(3) TOTAL FILL			3,165 CY
TOTAL AVAILABLE NON-ROCK EXCAV.	1,762	X 0.85 =	1,498 CY
TOTAL AVAILABLE ROCK EXCAV.	0	X 1.33 =	0 CY
(4) TOTAL AVAILABLE EXCAVATION			1,498 CY
BORROW NEEDED (3) MINUS (4)			1,667 CY
TOTAL SURPLUS WASTE MATERIAL (805 CY -461 CY)			1,266 CY

* UNDETERMINED LOCATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN 17283.10

HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE		BY	DATE
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1	CONDUIT		6-21-11
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

ESTIMATED QUANTITIES

SHEET NUMBER
3
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date: $date$

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-C	B1-C		E	F	SPAN	RISE	LENGTH		LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
STA. 10+16.0, 29.8' RT TO STA. 10+39.1, 54.3' RT						15"	36 LF																					
STA. 13+89, 27.5' RT TO STA. 13+89, 31.5' RT.	15"	4 LF																										
STA. 16+46, 27.4'± RT.																												REBUILD CB

STATE OF MAINE
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PIN
17283.10

HIGHWAY PLANS

PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG	ALG	5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

DRAINAGE SHEET

SHEET NUMBER
4
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

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

   CENTRAL MAINE POWER
   FAIRPOINT COMMUNICATIONS
   CITY OF AUBURN
   TIME WARNER CABLE

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

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

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

5. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

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

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

8. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES 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. COMMERCIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH:
    3" HOT MIX ASPHALT AND 11" AGGREGATE SUBBASE COURSE GRAVEL.

15. PLACE 12 INCHES OF GRAVEL AND 2 INCHES OF HOT MIX ASPHALT AROUND CATCH BASINS IN GRASSED AREAS (3' OUTSIDE OF FRAME) AND PAINT WITH ACRYLIC LATEX COLOR FINISH - GREEN. PAYMENT SHALL BE UNDER THE APPLICABLE CONTRACT 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 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
    - o REMOVAL OF CULVERT HEADWALL

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. 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.

22. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.

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

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

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 ALL 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 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.

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

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

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

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN 17283.10

HIGHWAY PLANS

PROJ. MANAGER	JOEL KITTREDGE	BY	DATE
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG	ALG	5-11
DESIGN2-DETAILED2			
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REVISIONS 1			
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SIGNATURE
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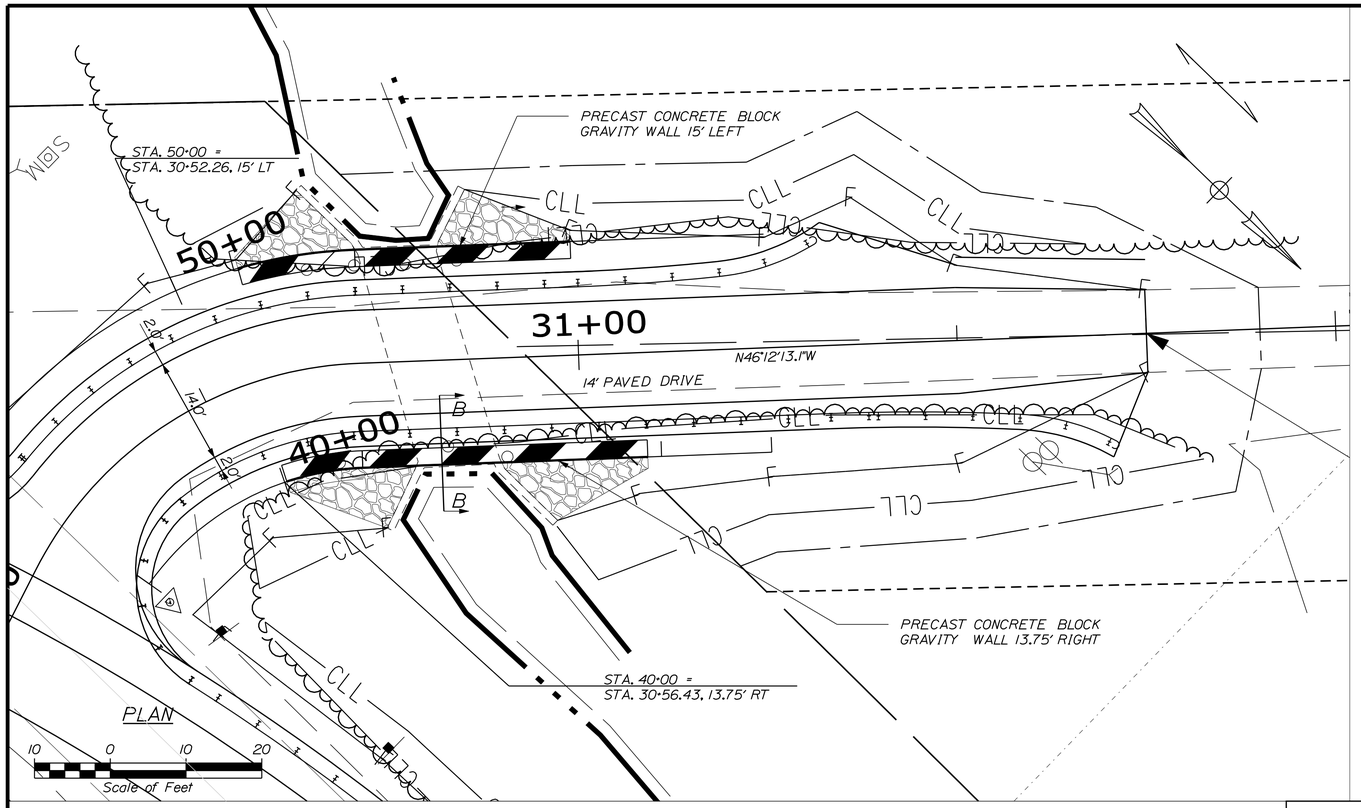
AUBURN
STATION ROAD

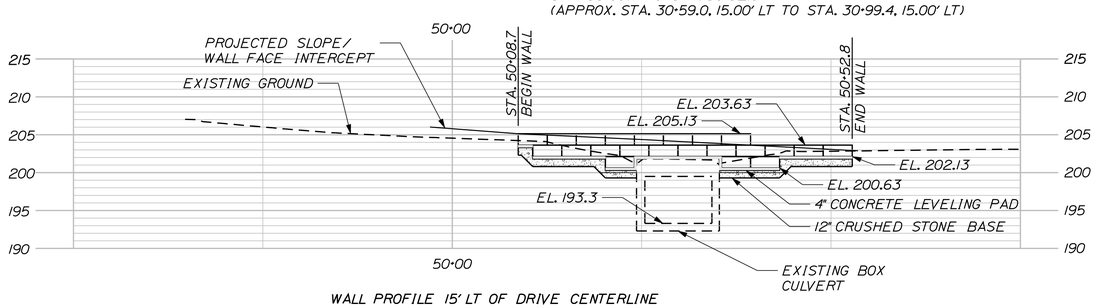
GENERAL NOTES

SHEET NUMBER
5
OF 40



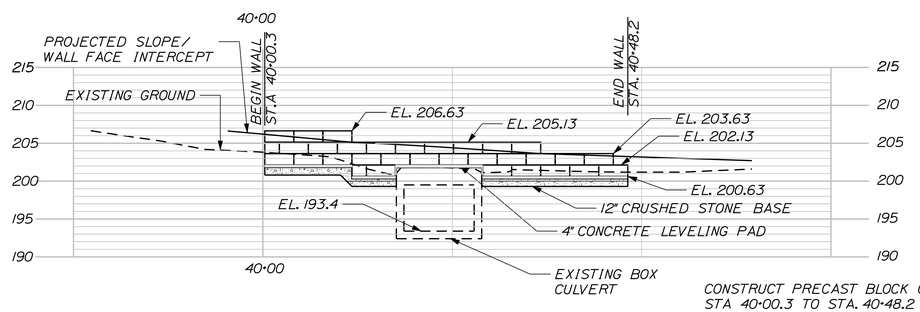
1. THE CONTRACTOR SHALL PROVIDE A PRECAST CONCRETE BLOCK GRAVITY WALL INCLUDING GEOTECHNICAL DESIGN IN ACCORDANCE WITH SPECIAL PROVISION SECTION 635. THE PRECAST CONCRETE BLOCK GRAVITY WALLS SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
2. THE PRECAST BLOCK WALL SHALL BE AN APPROVED SYSTEM FROM THE MAINEDOT QUALIFIED PRODUCTS LIST THAT MEETS THE REQUIREMENTS OF SPECIAL PROVISION 635.
3. BACKFILL AND FOUNDATION SOIL PARAMETERS FOR USE IN THE SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION SECTION 635.
4. THE PCBG WALL SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION, WITH 2008 INTERIMS.
5. THE APPLIED FACTORED BEARING PRESSURE FOR PRECAST CONCRETE BLOCK GRAVITY WALL SHALL NOT EXCEED 9 KSF FOR THE STRENGTH LIMIT STATE. THE FACTORED BEARING PRESSURE FOR PCBG WALLS SHALL NOT EXCEED THE FACTORED BEARING RESISTANCE OF 7.5 KSF FOR THE SERVICE LIMIT STATE.
6. ALL BLOCK AT THE ENDS OF THE WALL(S) MUST BE FINISHED ON THREE SIDES: THE FRONT, THE TOP AND THE EXPOSED END. BLOCKS WITH EXPOSED SURFACES AT THE TOP AND ENDS OF THE WALL MUST BE MANUFACTURED FOR THIS PURPOSE AND MUST BE FINISHED TO MATCH THE BLOCKS.
7. "COBBLESTONE" FACE PATTERN OR COMPARABLE PATTERN (COLOR GRAY) APPROVED BY THE PROJECT MANAGER IS REQUIRED FOR PREFABRICATED RETAINING WALL BLOCKS.
8. PIPED DRAINAGE SHALL BE INCLUDED IN THE DESIGN OF THE WALLS. WALL DRAINAGE WILL BE INCIDENTAL TO CONSTRUCTION OF THE WALL.
9. A MINIMUM EMBEDMENT DEPTH OF 12" IS REQUIRED IN THE DESIGN AND CONSTRUCTION OF THE PRECAST CONCRETE BLOCK GRAVITY WALL.

CONSTRUCT PRECAST BLOCK GRAVITY WALL
STA 50+08.7 TO STA. 50+52.8
(APPROX. STA. 30+59.0, 15.00' LT TO STA. 30+99.4, 15.00' LT)



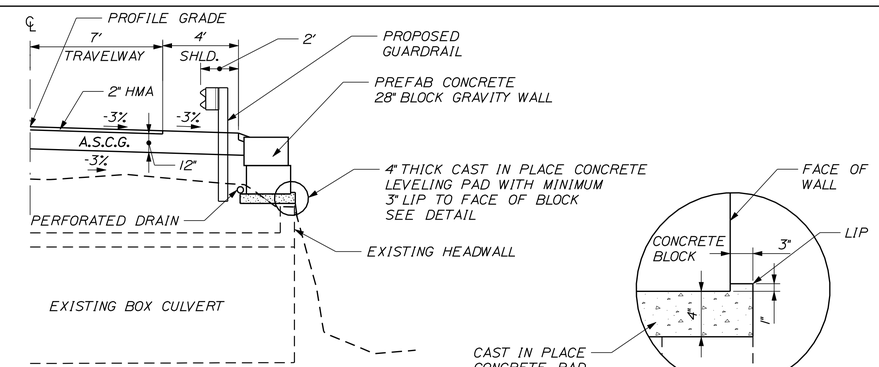
WALL PROFILE 15' LT OF DRIVE CENTERLINE

NOTE: PROFILES ARE AT FACE OF WALL



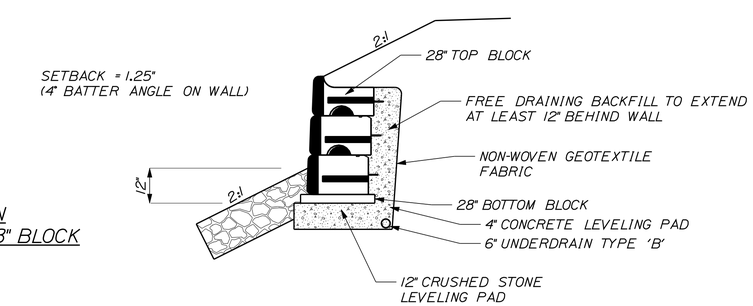
WALLPROFILE 13.75' RT OF DRIVE CENTERLINE

CONSTRUCT PRECAST BLOCK GRAVITY WALL
STA 40+00.3 TO STA. 40+48.2
(APPROX. STA. 30+56.8, 13.75' RT TO STA. 31+08.6, 13.75' RT)



PRECAST CONCRETE 28" BLOCK GRAVITY WALL OVER EXISTING CONCRETE BOX CULVERT
B-B
NTS

DETAIL
NTS



TYPICAL SECTION
PRECAST CONCRETE 28" BLOCK GRAVITY WALL
A-A
NTS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN 17283.10

HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE	BY	DATE
DESIGN-DETAILED JLE	JLE	5-11
CHECKED-REVIEWED ALG		5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
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AUBURN
STATION ROAD

WALL ELEVATION

SHEET NUMBER
6
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

DRIVEWAYS AND ENTRANCES		
LOCATION	DESCRIPTION	CURB OPENING
STA. 10+42.3 RT	18.0' PAVED DR	---
STA. 10+42.3 RT.	12.3' PAVED DR	---
STA. 22+72.0 LT.	27.0' PAVED DR	---

ITEM 606.23 GUARDRAIL, TYPE 3C	
LOCATION	LENGTH
STA. 23+22.7, 15.0' LT TO STA. 25+68.1, 15.0' LT	250.0'
STA. 11+96.2, 15.0' LT TO STA. 12+26.2, 15.0' LT	31.25'
STA. 30+71.0, 9.0' LT TO STA. 30+96.0, 9.0' LT.	25.0'
STA. 30+71.0, 9.0' RT TO STA. 31+33.5, 9.0' RT	62.5'

ITEM 606.79, GUARDRAIL 350 FLARED TERMINAL
LOCATION
STA. 30+96.0, 9.0' LT TO STA. 31+33.5, 13.0' LT
STA. 31+33.5, 9.0' RT TO STA. 31+70.0, 13.0' RT

ITEM 606.353 REFLECTORIZED FLEXIBLE GR MARKER	
LOCATION	EACH
STA. 23+25.0 LT	2
STA. 11+75.0 LT	2
STA. 12+35.0 LT	2
STA. 31+25.0 LT	2
STA. 31+70.0 RT	2
STA. 12+75.0 LT	2

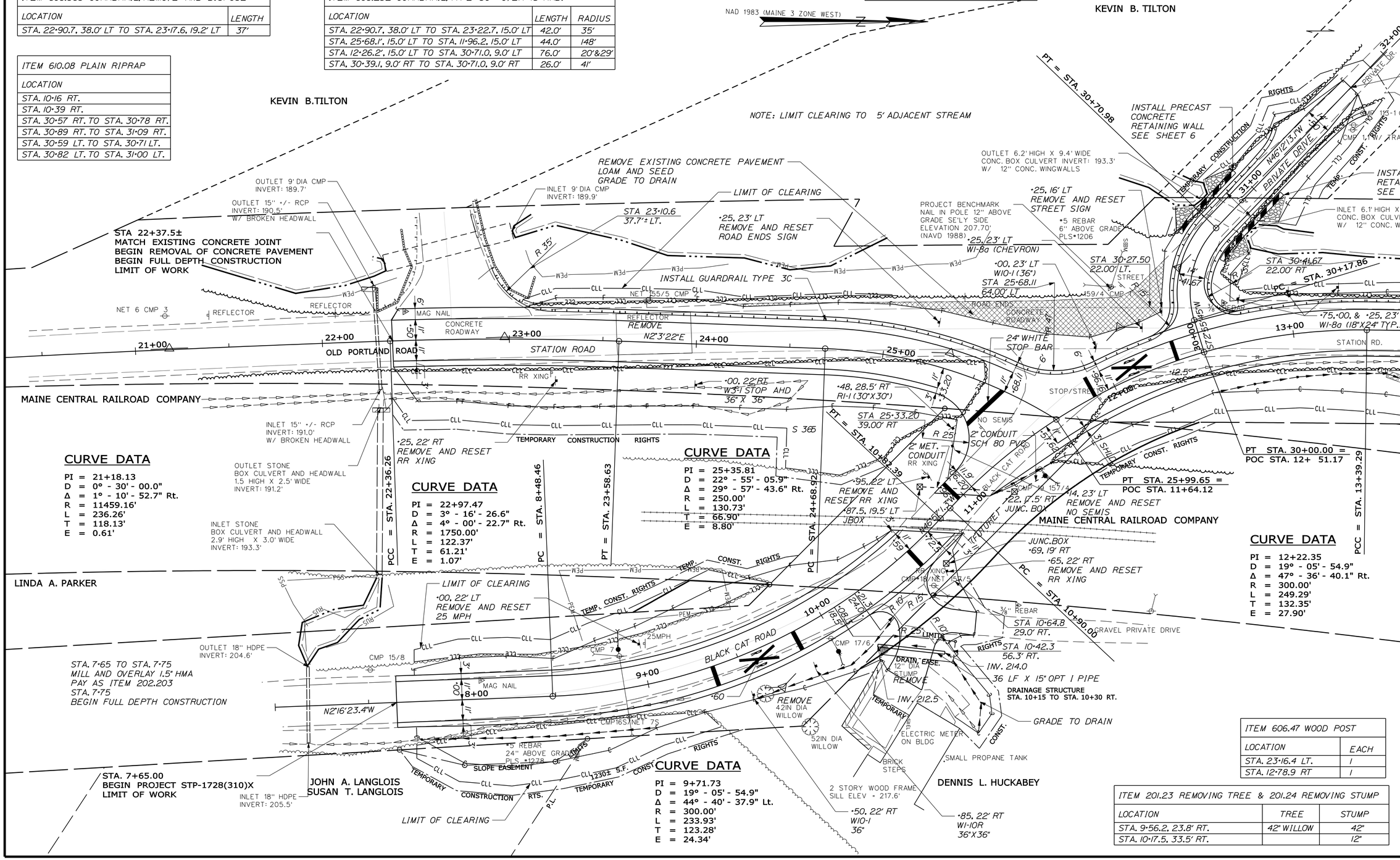
ITEM 606.363 GUARDRAIL, REMOVE AND DISPOSE	
LOCATION	LENGTH
STA. 22+90.7, 38.0' LT TO STA. 23+17.6, 19.2' LT	37'

ITEM 606.232 GUARDRAIL, TYPE 3C - OVER 15' RAD.		
LOCATION	LENGTH	RADIUS
STA. 22+90.7, 38.0' LT TO STA. 23+22.7, 15.0' LT	42.0'	35'
STA. 25+68.1', 15.0' LT TO STA. 11+96.2, 15.0' LT	44.0'	148'
STA. 12+26.2', 15.0' LT TO STA. 30+71.0, 9.0' LT	76.0'	20'&29'
STA. 30+39.1, 9.0' RT TO STA. 30+71.0, 9.0' RT	26.0'	41'

ITEM 610.08 PLAIN RIPRAP
LOCATION
STA. 10+16 RT.
STA. 10+39 RT.
STA. 30+57 RT. TO STA. 30+78 RT.
STA. 30+89 RT. TO STA. 31+09 RT.
STA. 30+59 LT. TO STA. 30+71 LT.
STA. 30+82 LT. TO STA. 31+00 LT.

CURVE DATA

PI = 30+47.23
D = 114° - 35' - 29.6"
Δ = 60° - 52' - 01.9" Rt.
R = 50.00'
L = 53.12'
T = 29.37'
E = 7.99'



ITEM 606.47 WOOD POST	
LOCATION	EACH
STA. 23+16.4 LT.	1
STA. 12+78.9 RT	1

ITEM 201.23 REMOVING TREE & 201.24 REMOVING STUMP		
LOCATION	TREE	STUMP
STA. 9+56.2, 23.8' RT.	42" WILLOW	42"
STA. 10+17.5, 33.5' RT.		12"

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HIGHWAY PLANS

	BY	DATE
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DESIGN-DETAILED	JLE	5-11
CHECKED-REVIEWED	ALG	5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	ITEM 606.353 TABLE	6/21/11
REVISIONS 2	CONDUIT	6/21/11
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

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AUBURN STATION ROAD

PLANS

SHEET NUMBER
7
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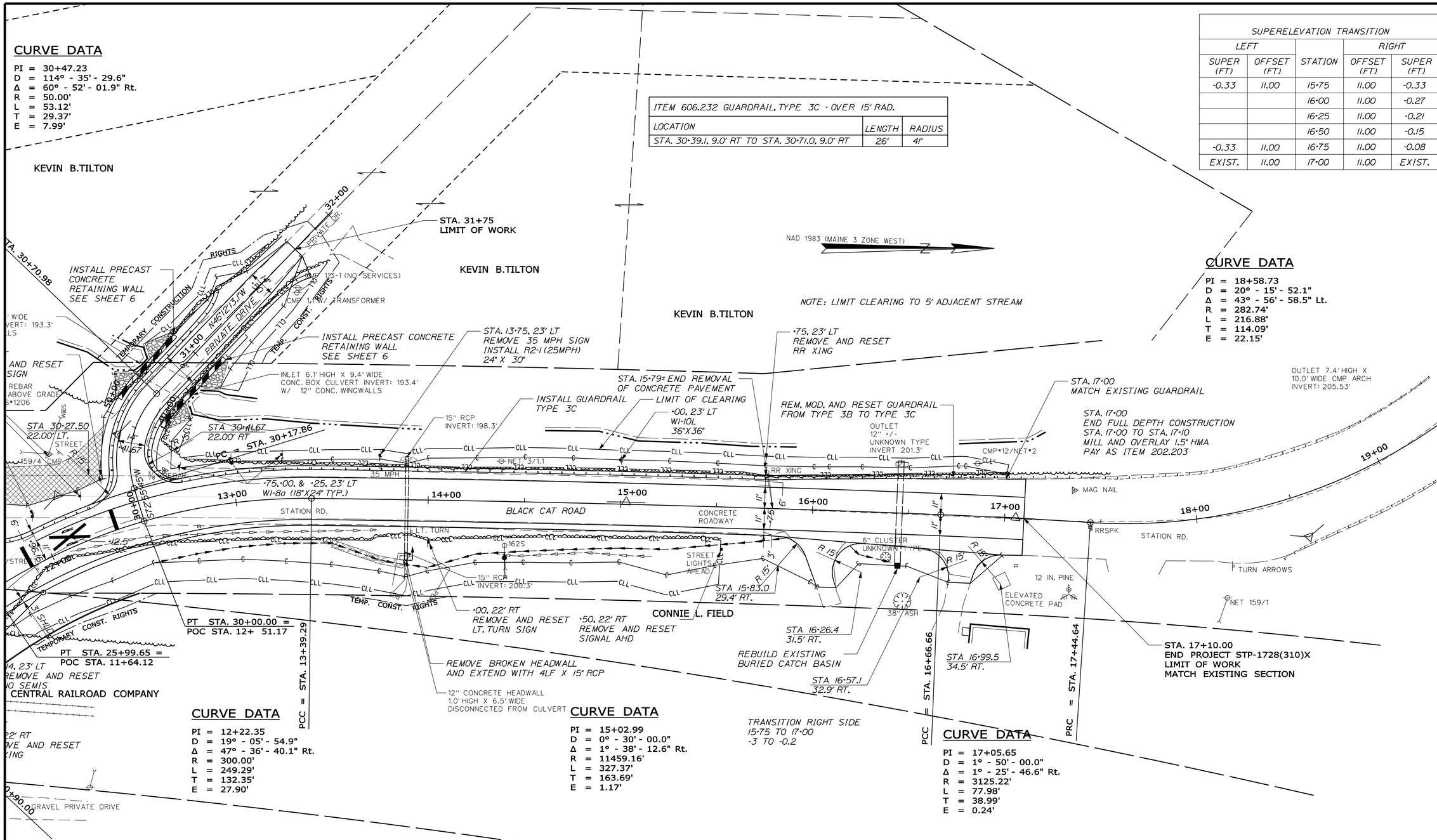
Filename: $file$ Division: $wkgroup$ Username: $user$ Date: $date$



CURVE DATA

PI = 30+47.23
D = 114° - 35' - 29.6"
Δ = 60° - 52' - 01.9" Rt.
R = 50.00'
L = 53.12'
T = 29.37'
E = 7.99'

CURVE DATA

PI = 18+58.73
D = 20° - 15' - 52.1"
Δ = 43° - 56' - 58.5" Lt.
R = 282.74'
L = 216.88'
T = 114.09'
E = 22.15'

CURVE DATA

PI = 12+22.35
D = 19° - 05' - 54.9"
Δ = 47° - 36' - 40.1" Rt.
R = 300.00'
L = 249.29'
T = 132.35'
E = 27.90'

CURVE DATA

PI = 15+02.99
D = 0° - 30' - 00.0"
Δ = 1° - 38' - 12.6" Rt.
R = 11459.16'
L = 327.37'
T = 163.69'
E = 1.17'

CURVE DATA

PI = 17+05.65
D = 1° - 50' - 00.0"
Δ = 1° - 25' - 46.6" Rt.
R = 3125.22'
L = 77.98'
T = 38.99'
E = 0.24'

SUPERELEVATION TRANSITION				
LEFT			RIGHT	
SUPER (FT)	OFFSET (FT)	STATION	OFFSET (FT)	SUPER (FT)
-0.33	11.00	15+75	11.00	-0.33
		16+00	11.00	-0.27
		16+25	11.00	-0.21
		16+50	11.00	-0.15
-0.33	11.00	16+75	11.00	-0.08
EXIST.	11.00	17+00	11.00	EXIST.

ITEM 606.232 GUARDRAIL, TYPE 3C - OVER 15' RAD.		
LOCATION	LENGTH	RADIUS
STA. 30+39.1, 9.0' RT TO STA. 30+71.0, 9.0' RT	26'	41'

ITEM 606.365 GR REM, MOD, RESET TYPE 3B TO 3C	
LOCATION	LENGTH
STA. 15+77.2, 16.3' LT TO STA. 17+00.0, 26.2' LT	100'

ITEM 606.23 GUARDRAIL, TYPE 3C	
LOCATION	LENGTH
STA. 12+75.2, 15.0' LT TO STA. 15+77.2, 16.3' LT	331.25'

ITEM 613.319 EROSION CONTROL BLANKET
LOCATION
STA. 7+75 RT. TO STA. 9+00 RT.
STA. 9+50 RT TO STA. 10+40 RT.
STA. 12+50 RT. TO STA. 16+00 RT.
STA. 23+10 LT. TO STA. 31+75 LT.
STA. 31+75 RT. TO STA. 17+00 LT.

ITEM 606.231, GUARDRAIL, TYPE 3C - 15' RAD. AND LESS		
LOCATION	LENGTH	RADIUS
STA. 30+39.0 9.0' RT TO STA. 12+74.7, 15.0' LT	28.5'	15'

ITEM 610.08 PLAIN RIPRAP
LOCATION
STA. 13+89 RT.
STA. 13+89 LT.

DRIVEWAYS AND ENTRANCES		
LOCATION	DESCRIPTION	CURB OPENING
STA. 16+07.8 RT.	9.3' PAVED DR	---
STA. 16+87.6 RT.	11.5' PAVED DR	---

STATE OF MAINE
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HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED	JLE	5-11
CHECKED-REVIEWED	ALG	5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

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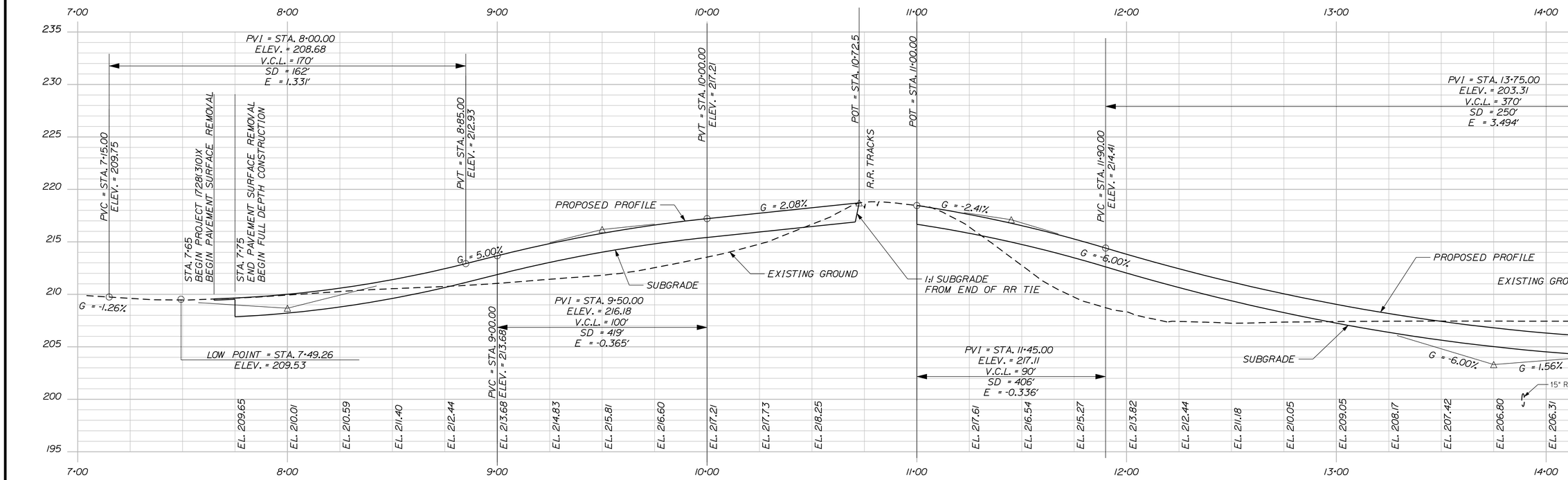
AUBURN
STATION ROAD

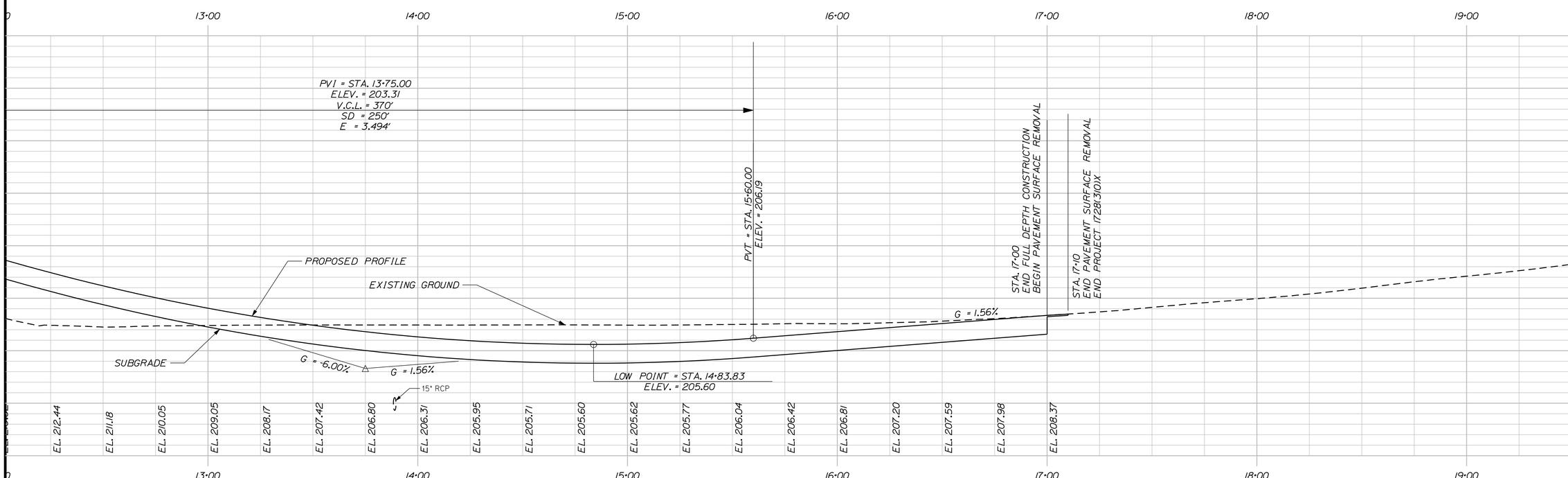
PLANS

SHEET NUMBER
8
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date: $date$



PROFILE - BLACK CAT ROAD



PROFILE - BLACK CAT ROAD

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED JLE	JLE	5-11
CHECKED-REVIEWED ALG		5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

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DATE

AUBURN
BLACK CAT ROAD

PROFILE

SHEET NUMBER
9
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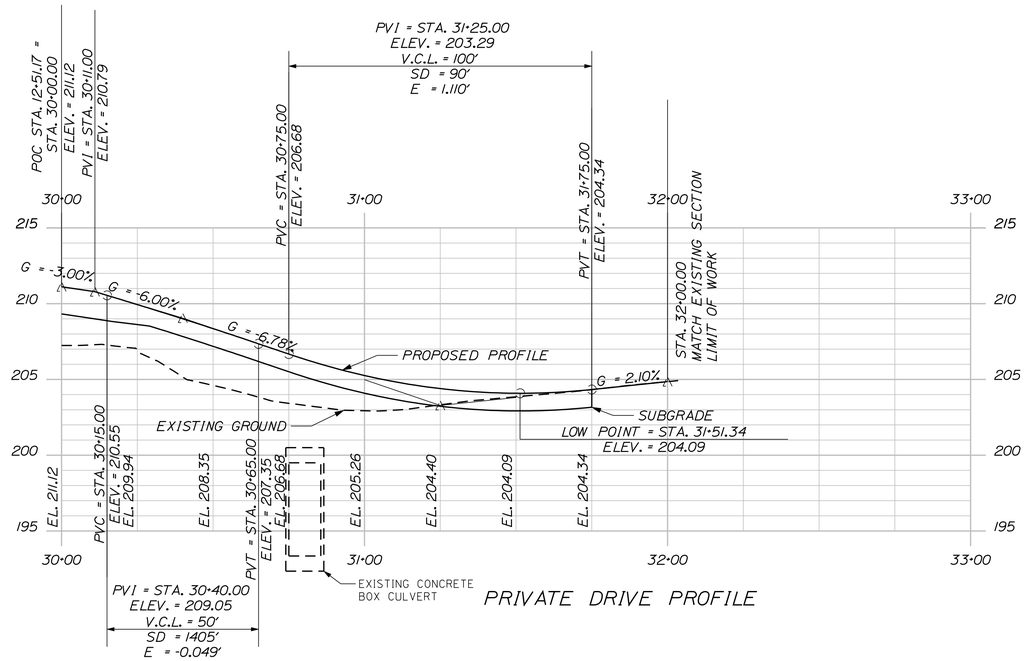
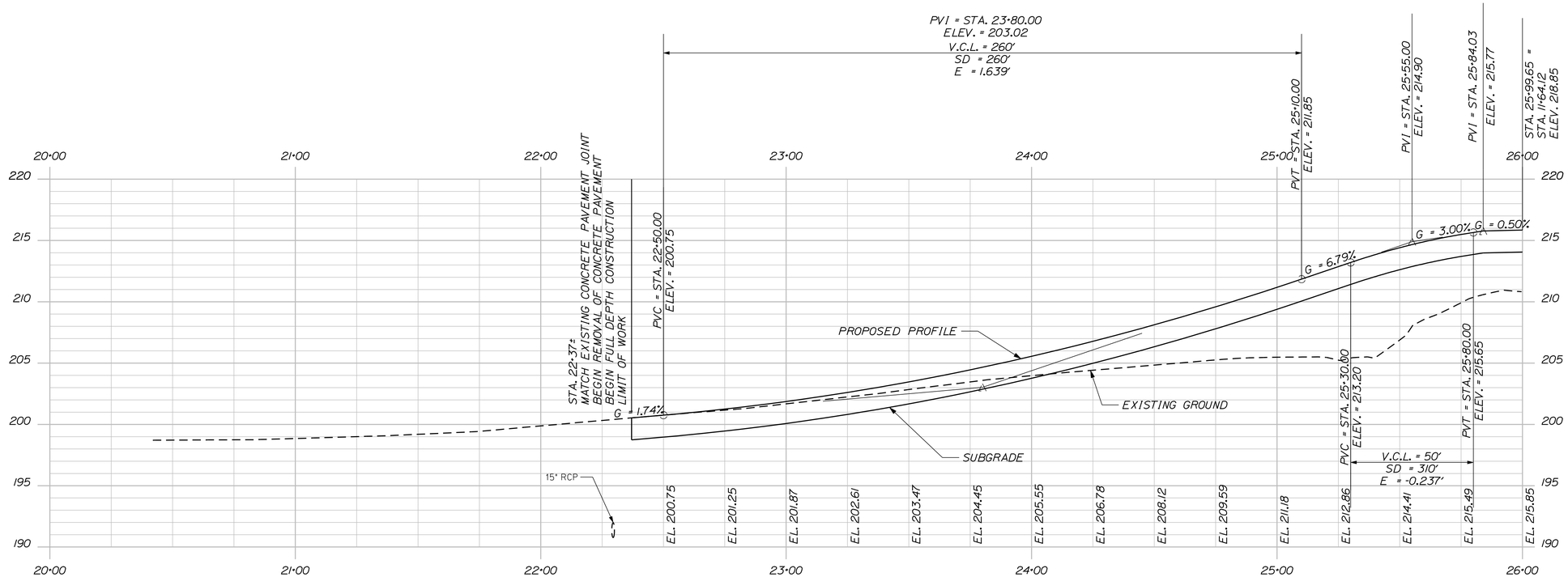
Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



PRIVATE DRIVE PROFILE



STATION ROAD PROFILE

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HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE		BY	DATE
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

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AUBURN
STATION ROAD

PROFILE

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10
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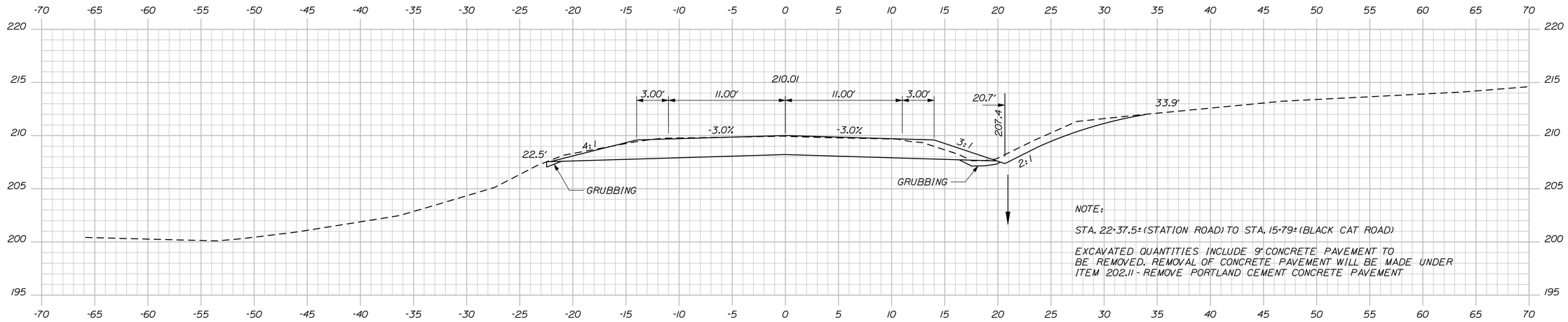
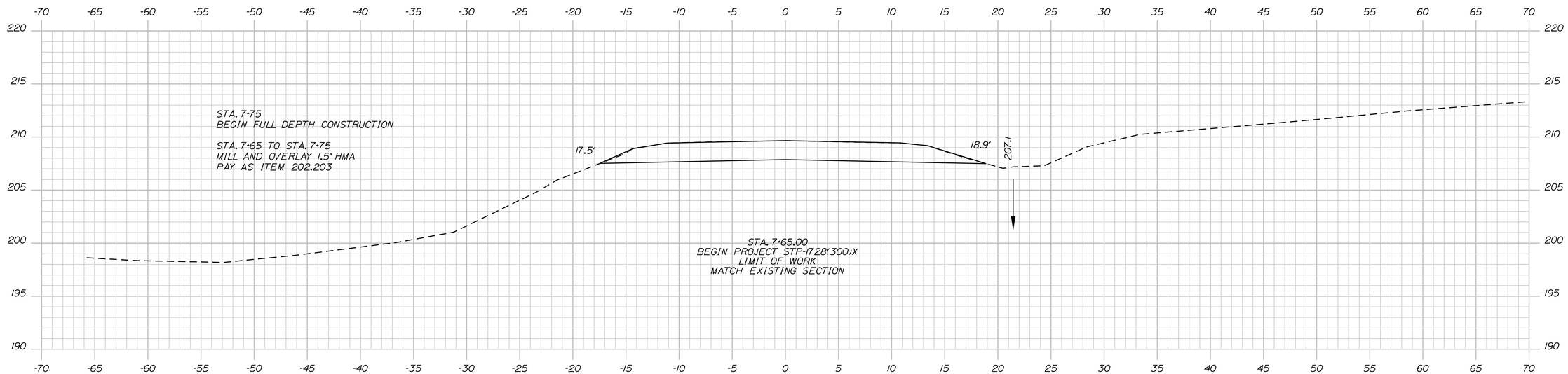
Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

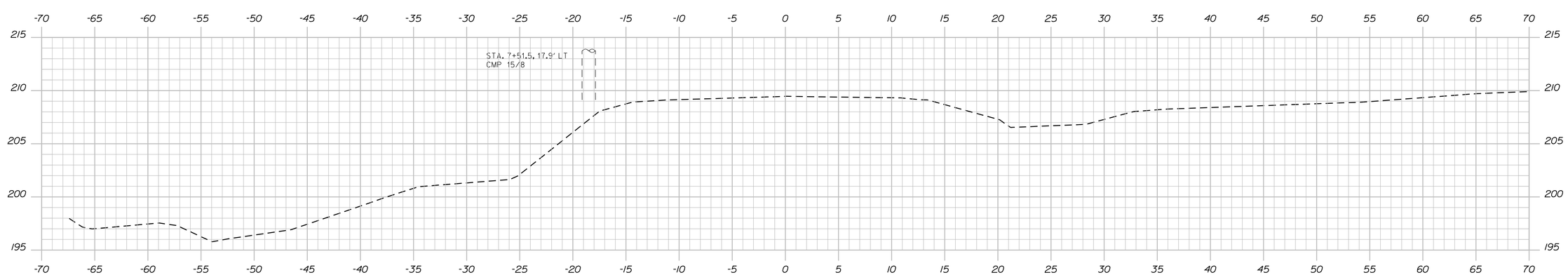


8+00.00

C = 57 CY
F = 0 CY
G = 1 CY



7+75.00



7+50.00

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DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

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HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE			
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

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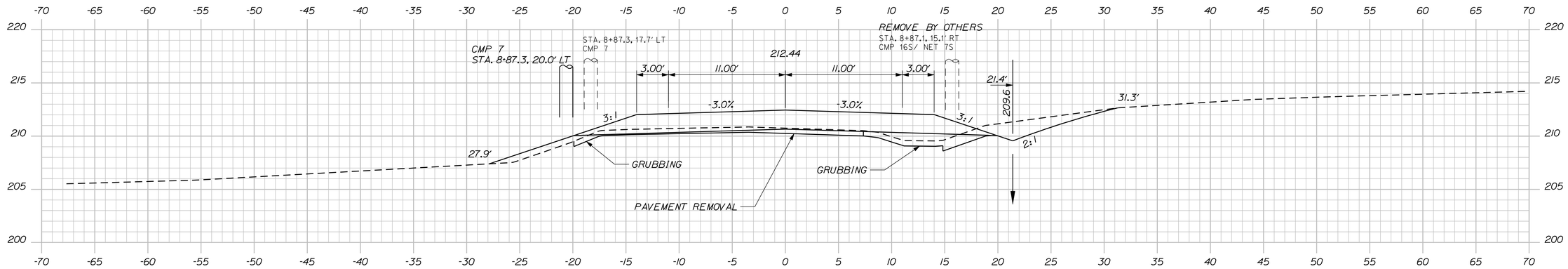
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

CROSS SECTIONS 8+00.00
7+50.00

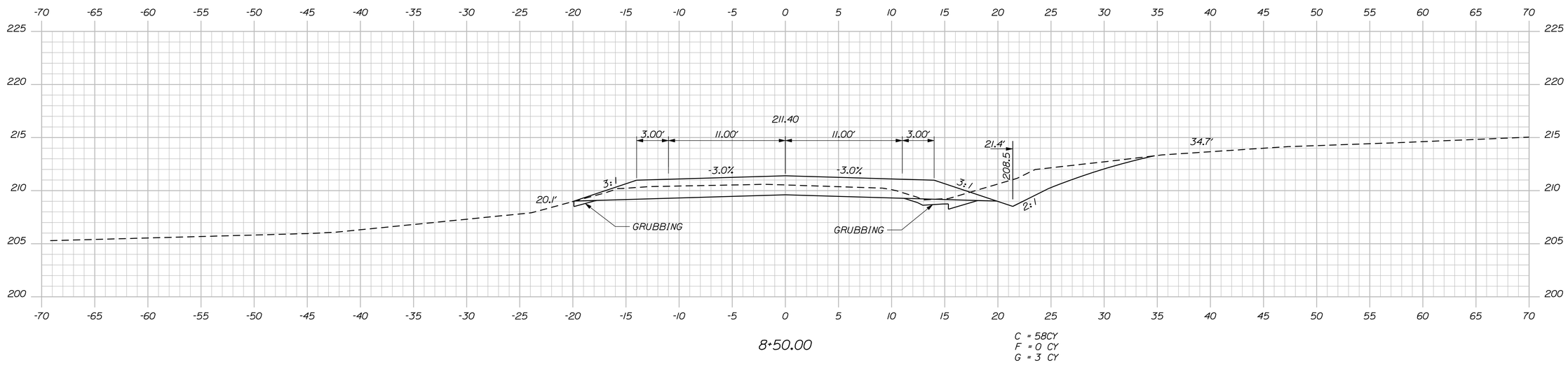
SHEET NUMBER
11
OF 40

Date: $date$
Username: $user$
Division: $wkgroup$
Filename: $file$



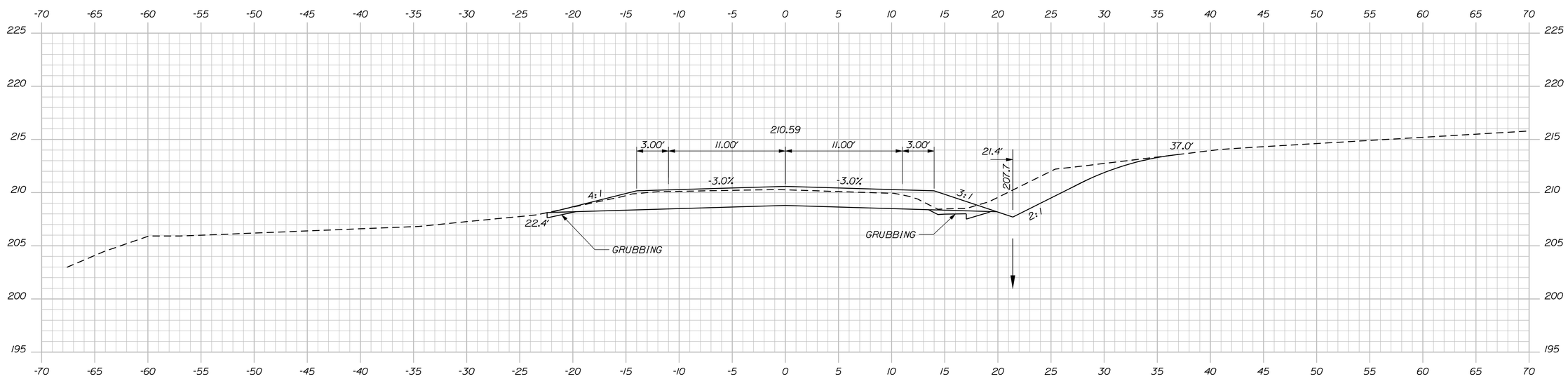
8+75.00

C = 36 CY
F = 7 CY
G = 5 CY



8+50.00

C = 58CY
F = 0 CY
G = 3 CY



8+25.00

C = 65 CY
F = 0 CY
G = 2 CY

STATE OF MAINE
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HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE	BY	DATE
DESIGN-DETAILED JLE	JLE	5-11
CHECKED-REVIEWED ALG		5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

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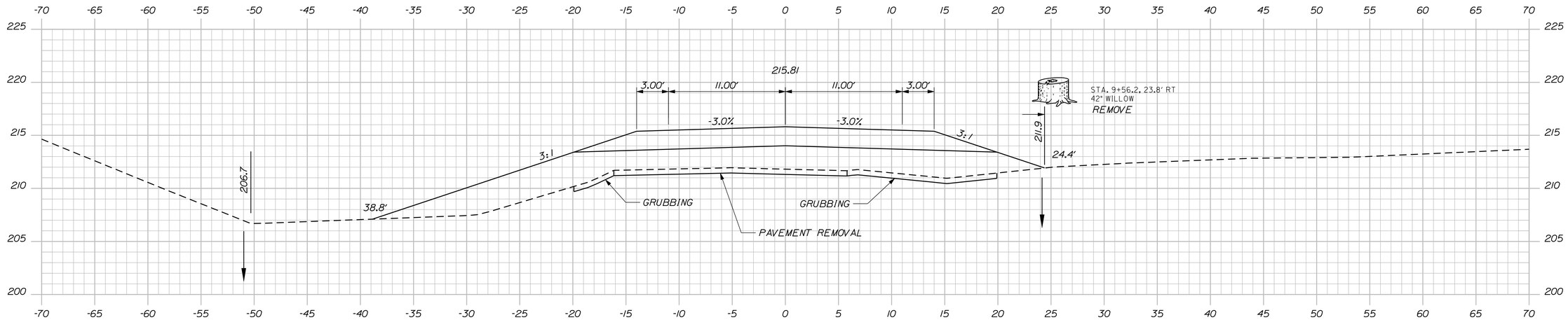
AUBURN
BLACK CAT ROAD

CROSS SECTIONS

8+25.00 8+75.00

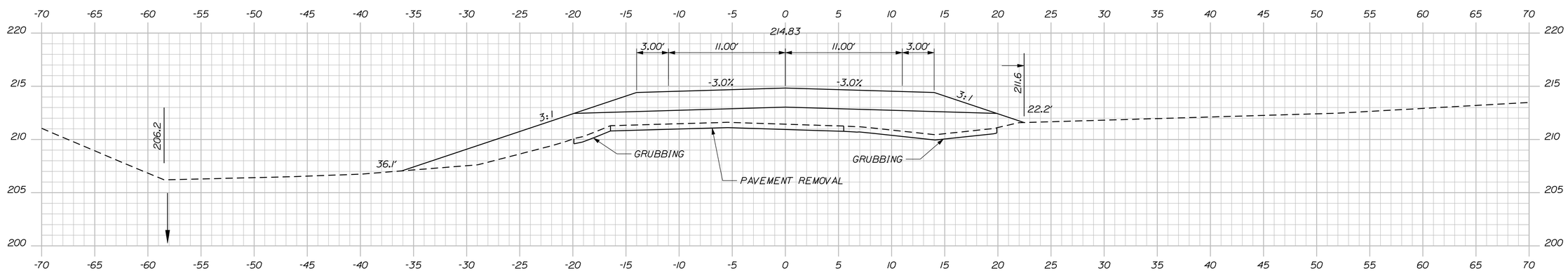
SHEET NUMBER
12
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



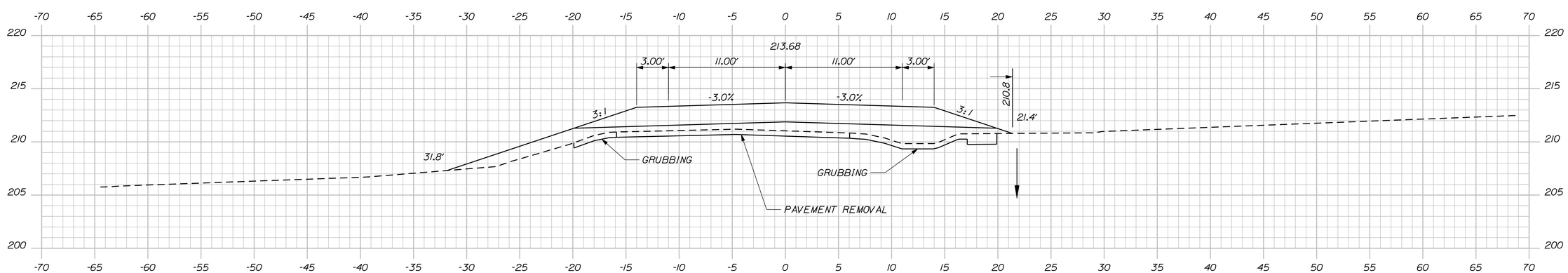
9+50.00

C = 10 CY
F = 114 CY
G = 8 CY



9+25.00

C = 10 CY
F = 73 CY
G = 9 CY



9+00.00

C = 16 CY
F = 32 CY
G = 8 CY

STATE OF MAINE
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STP-1728(310)X

PIN
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HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED	JLE	5-11
CHECKED-REVIEWED	ALG	5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
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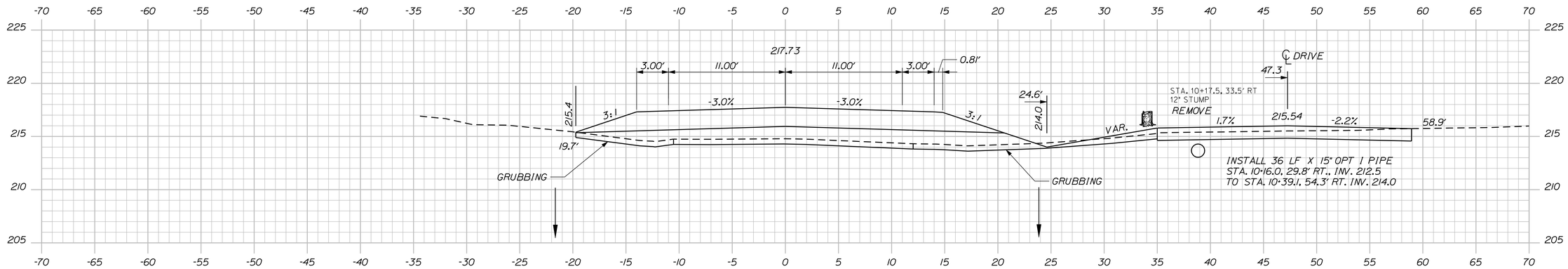
DATE

AUBURN
BLACK CAT ROAD

CROSS SECTIONS 9+50.00 9+00.00

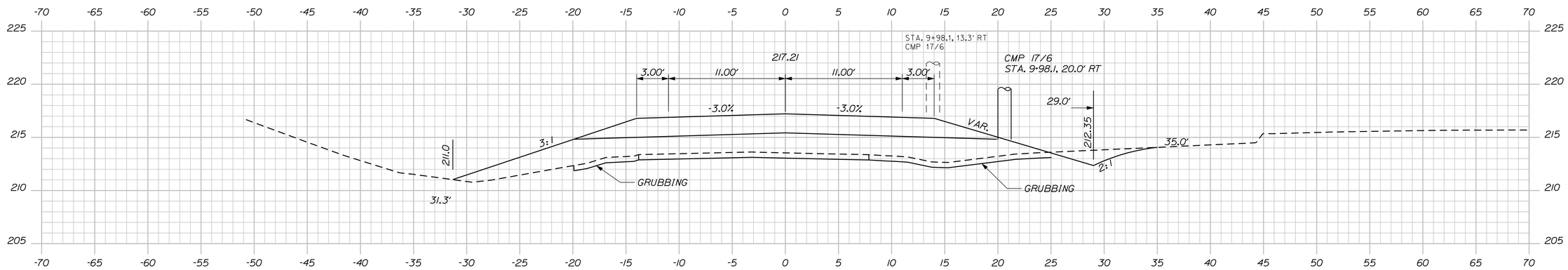
SHEET NUMBER
13
OF 40

Date:$date$ Username: $user$ Division: $wkgroup$ Filename: $file$



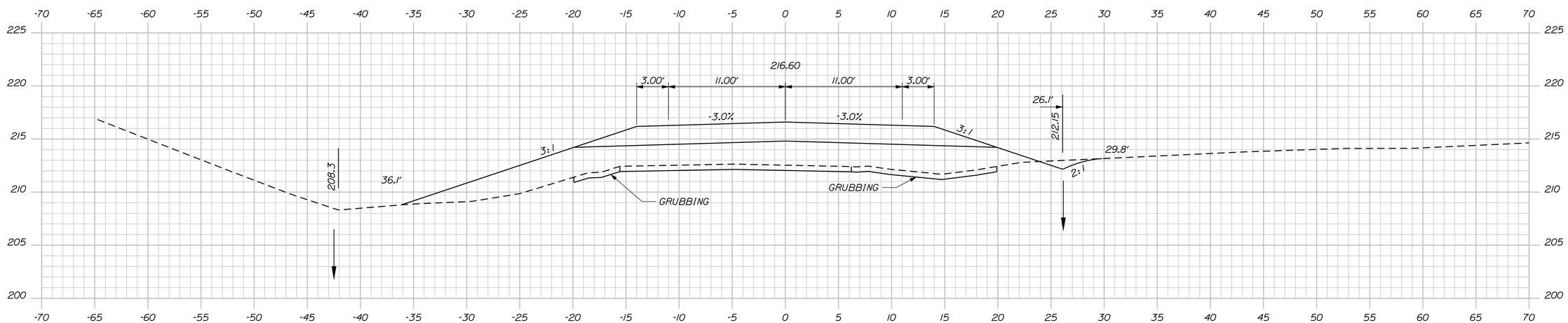
10+25.00

C = 22 CY
F = 83 CY
G = 12 CY



10+00.00

C = 14 CY
F = 11 CY
G = 9 CY



9+75.00

C = 11 CY
F = 128 CY
G = 8 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED JLE	JLE	5-11
CHECKED-REVIEWED ALG		5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

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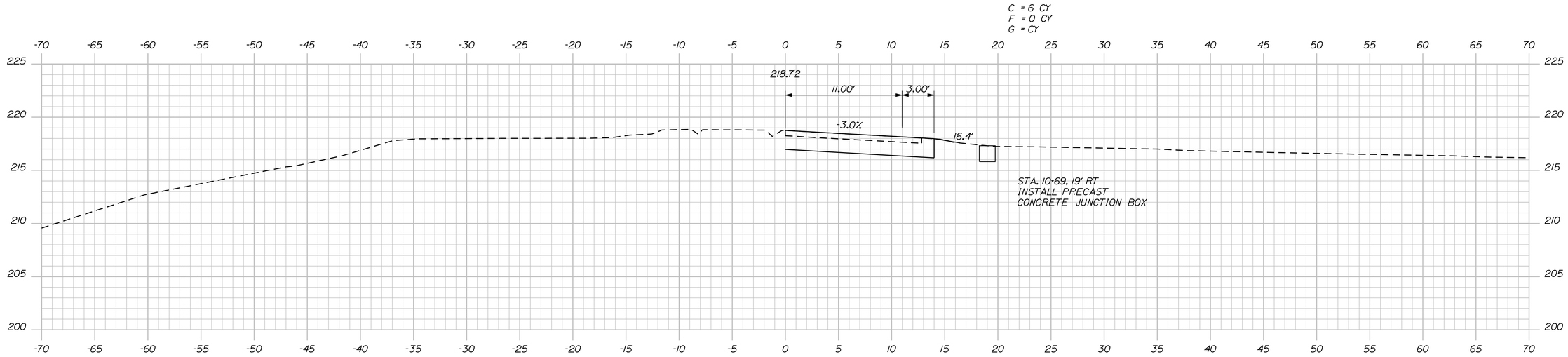
AUBURN
BLACK CAT ROAD

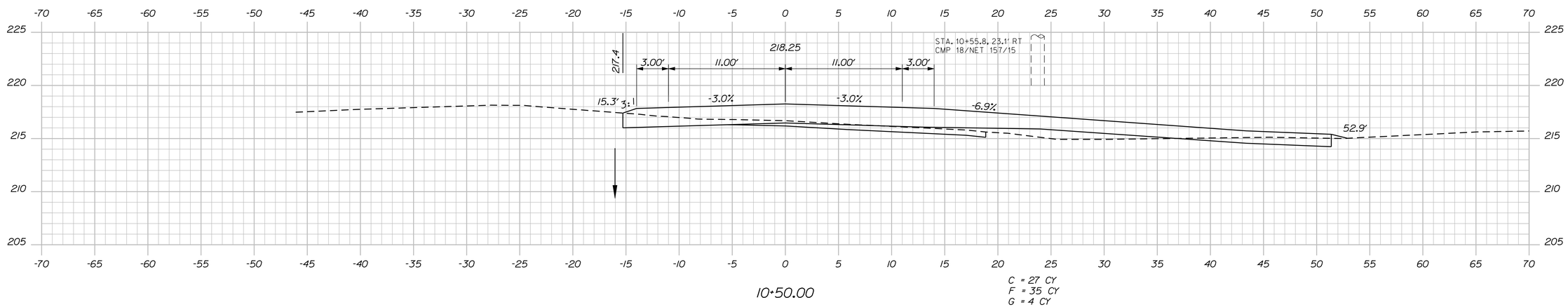
CROSS SECTIONS 10+25.00 9+75.00

SHEET NUMBER
14
OF 40

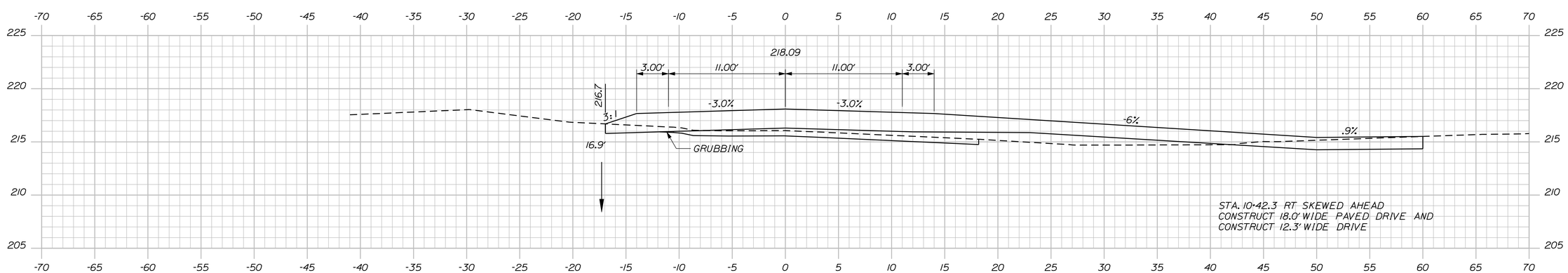
Date: $date$
Username: $user$
Division: $wkgroup$
Filename: $file$



10+72.5



10+50.00



10+42.26

STATE OF MAINE
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HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED	JLE	5-11
CHECKED-REVIEWED	ALG	5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
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AUBURN
BLACK CAT ROAD

CROSS SECTIONS 10+73.50 10+42.26

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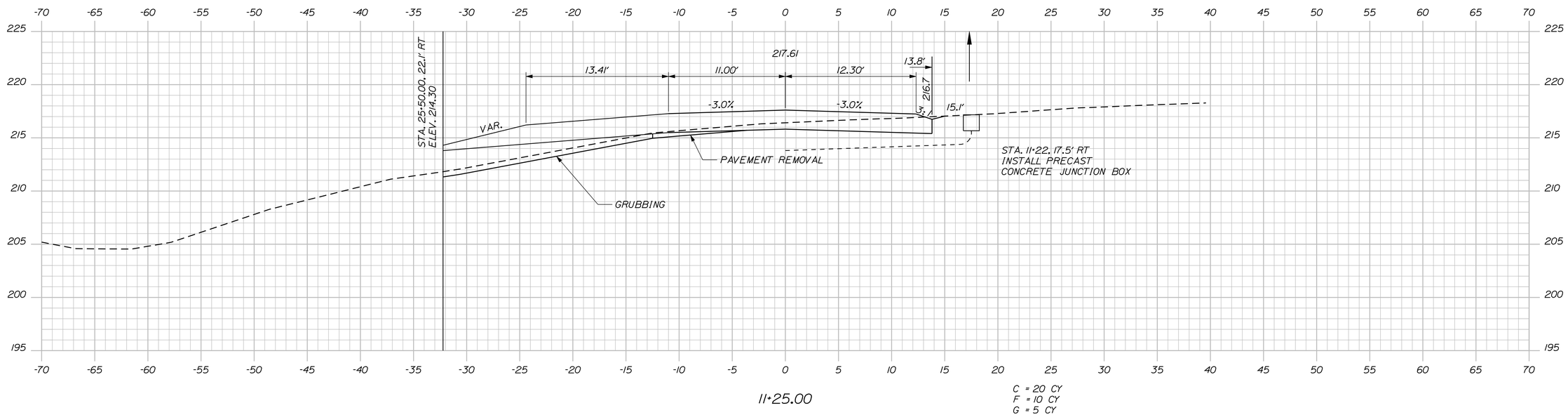
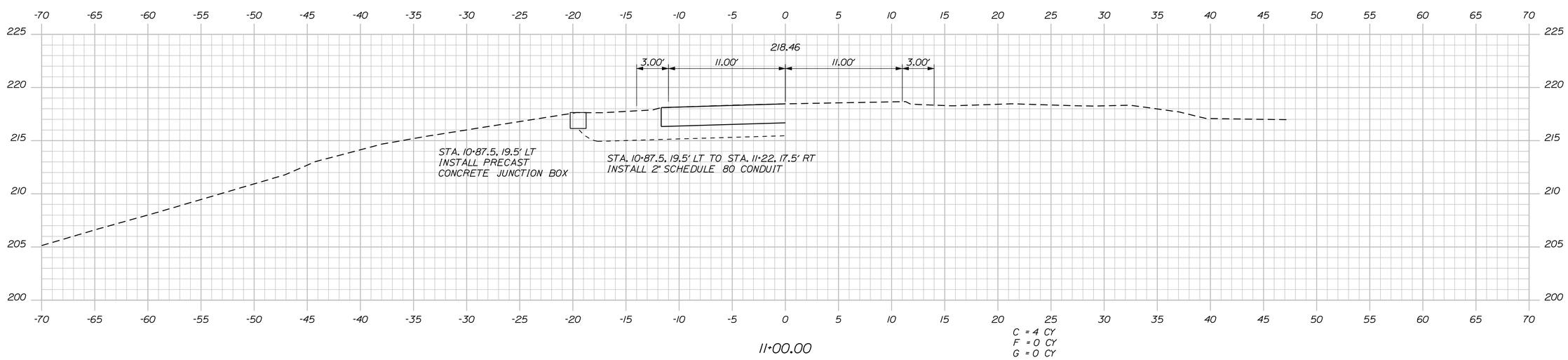
15
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date: $date$





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

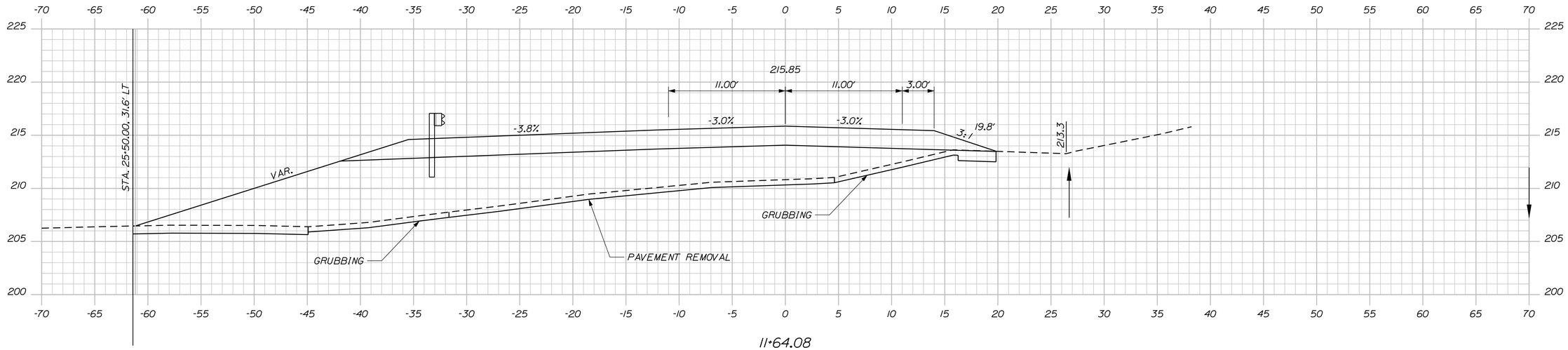
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

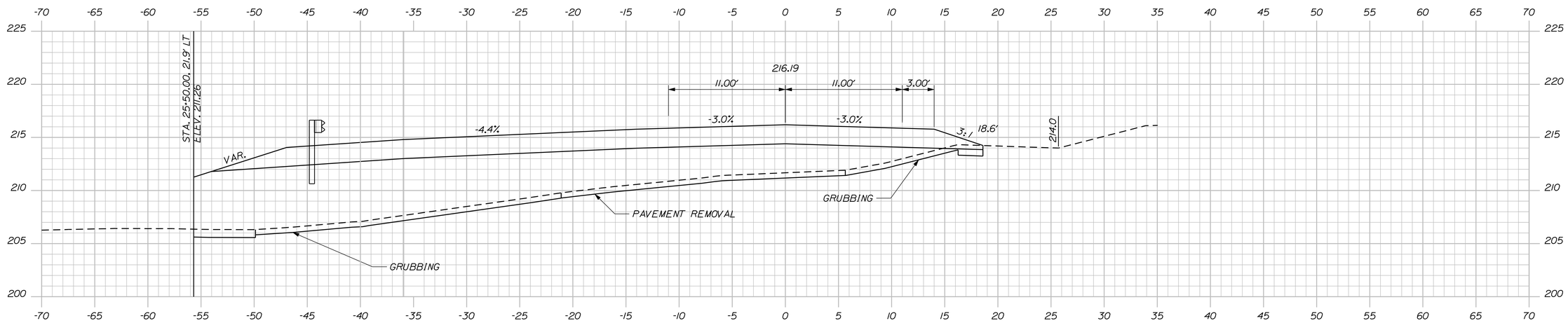
11+00.00 CROSS SECTIONS 11+25.00

SHEET NUMBER
16
OF 40

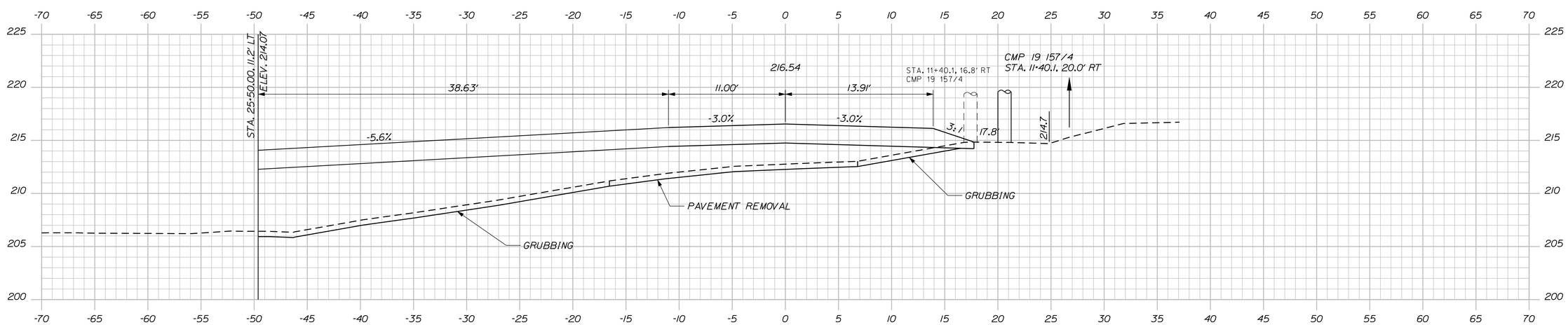
Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



11+64.08



11+57.31



11+50.00

C = 16 CY
F = 113 CY
G = 14 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

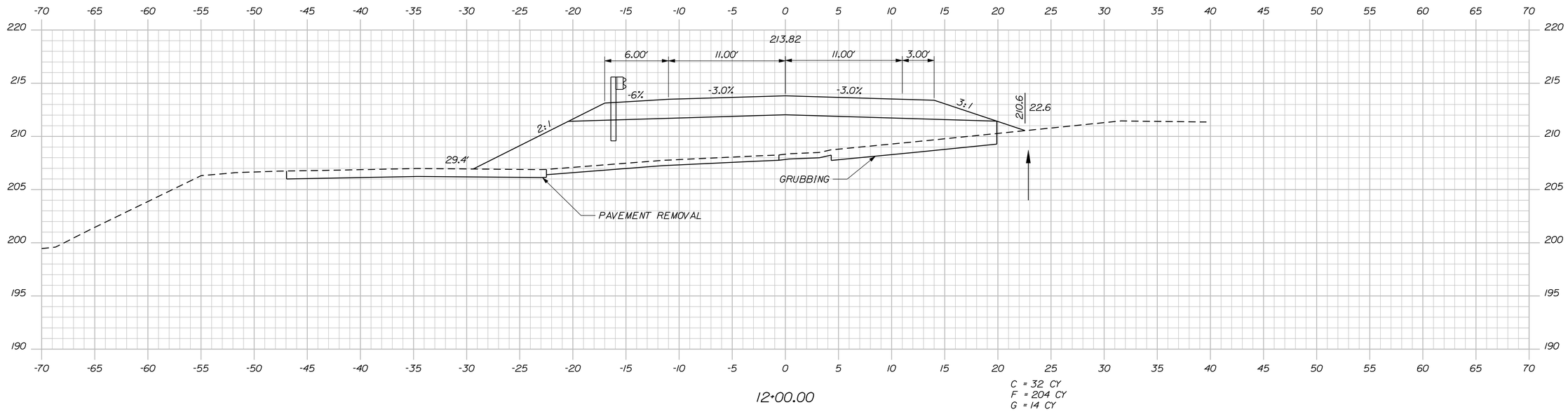
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

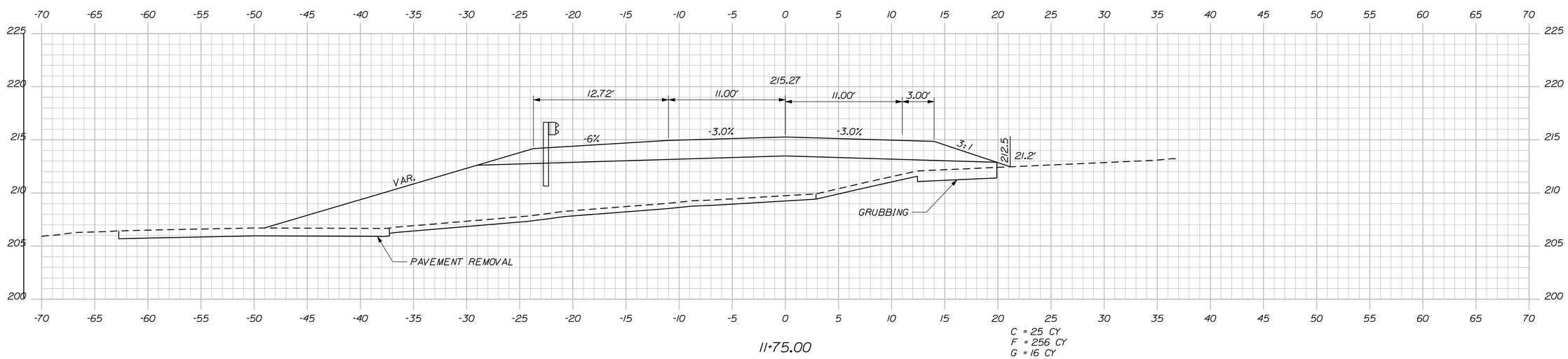
AUBURN
BLACK CAT ROAD

11+50.00 CROSS SECTIONS 11+64.08

SHEET NUMBER
17
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE	BY	DATE
DESIGN-DETAILED JLE	JLE	5-11
CHECKED-REVIEWED ALG		5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

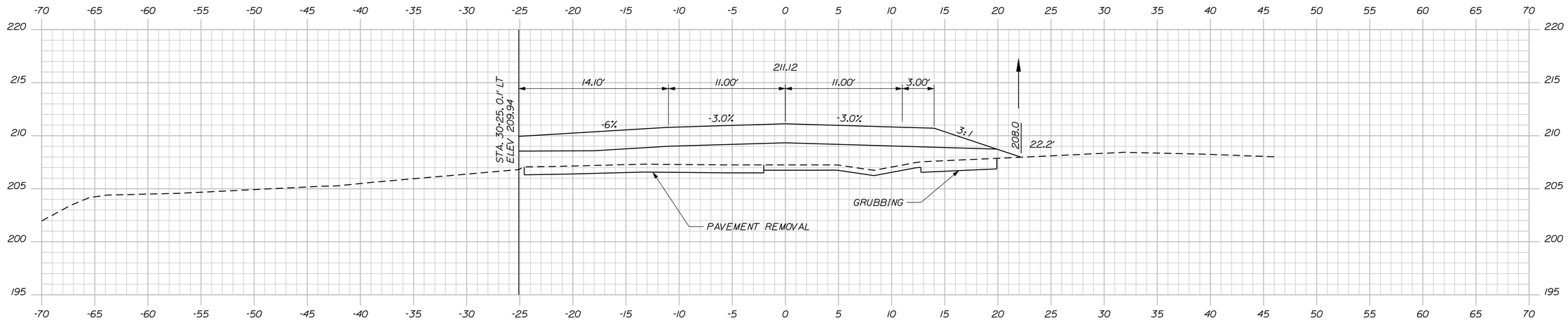
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

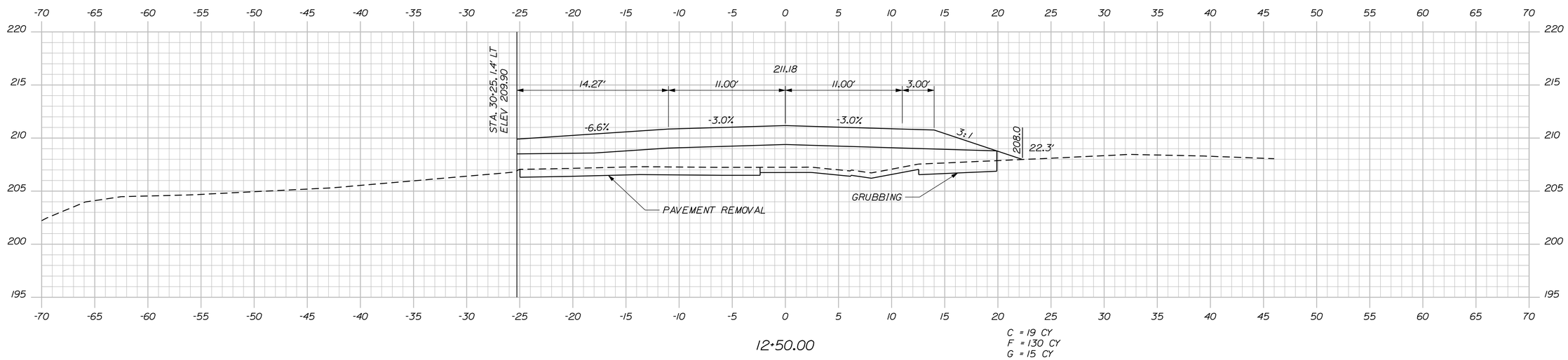
11+75.00 CROSS SECTIONS 12+00.00

SHEET NUMBER
18
OF 40

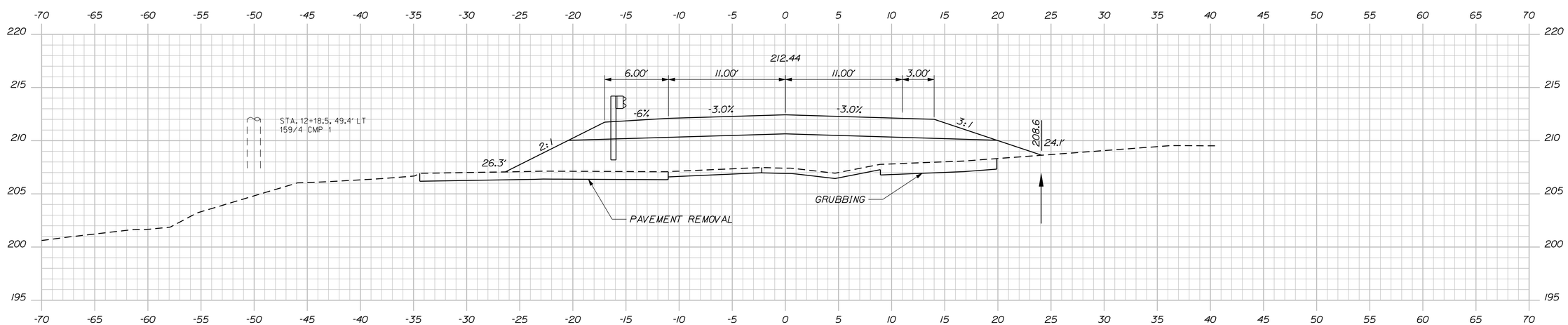
Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



12+51.17



12+50.00



12+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

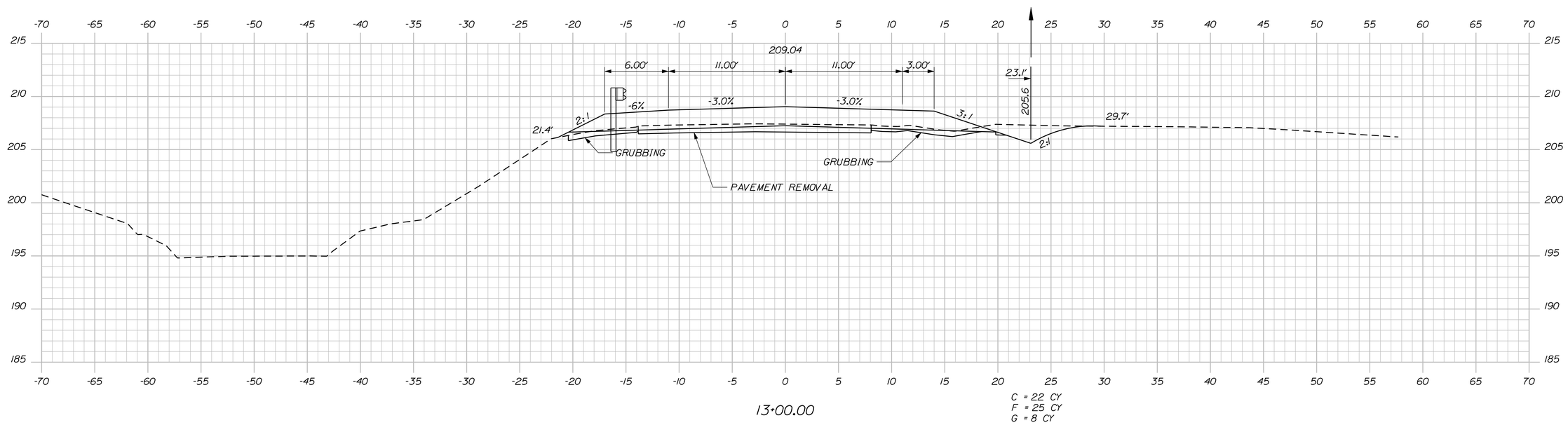
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

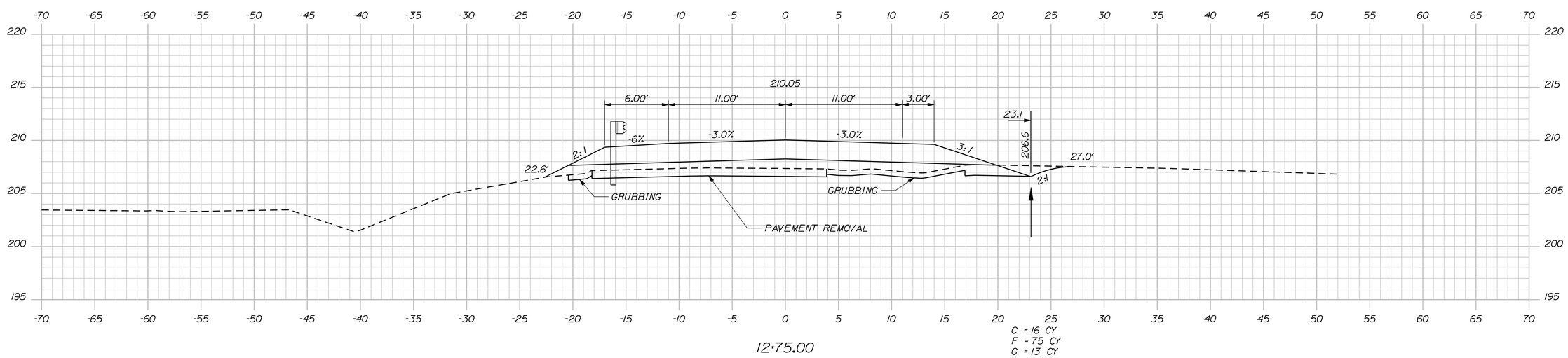
12+25.00 CROSS SECTIONS 12+51.17

SHEET NUMBER
19
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



13+00.00



12+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

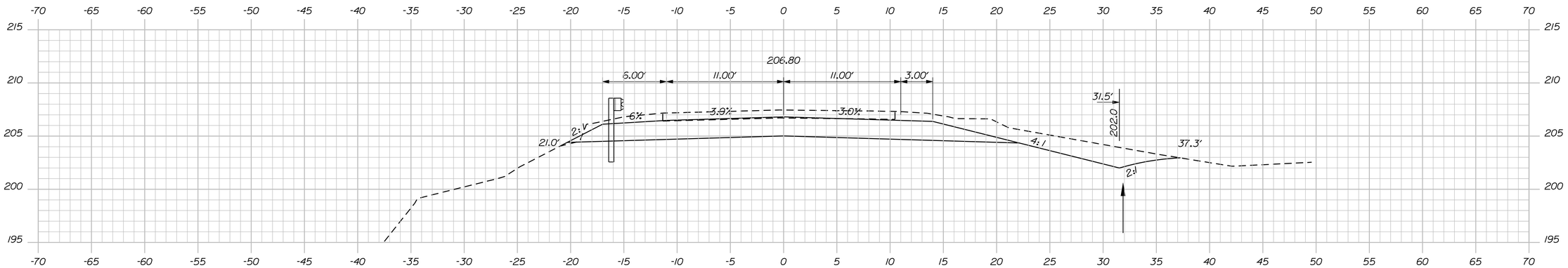
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

12+75.00 CROSS SECTIONS 13+00.00

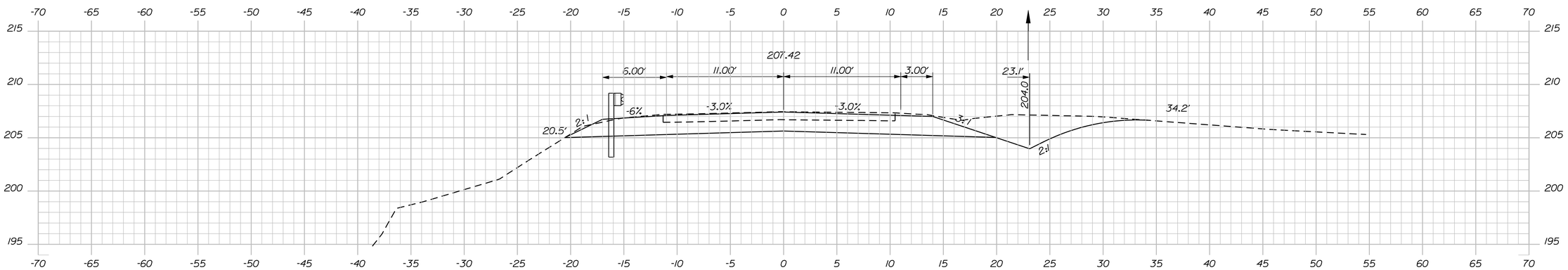
SHEET NUMBER
20
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



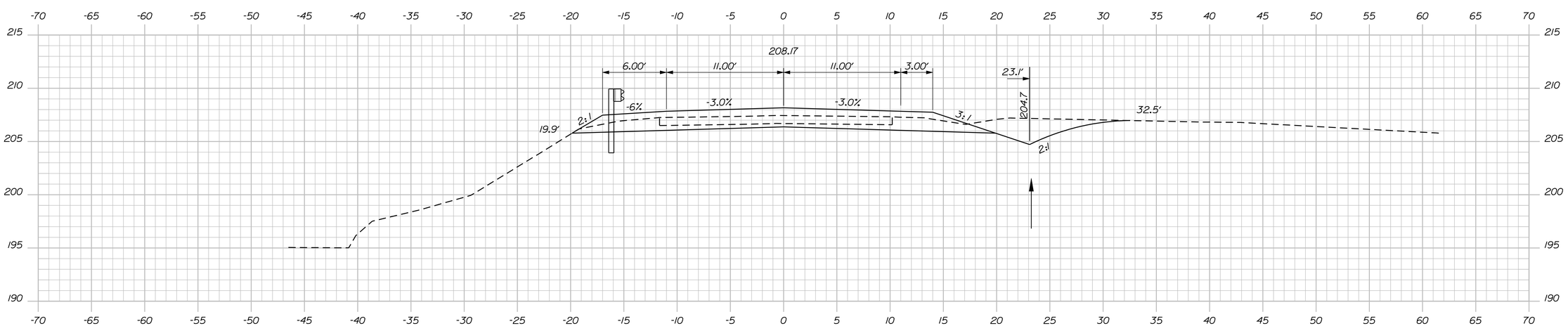
13+75.00

C = 97 CY
F = 0 CY



13+50.00

C = 69 CY
F = 0 CY



13+25.00

C = 39 CY
F = 5 CY
G = 3 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

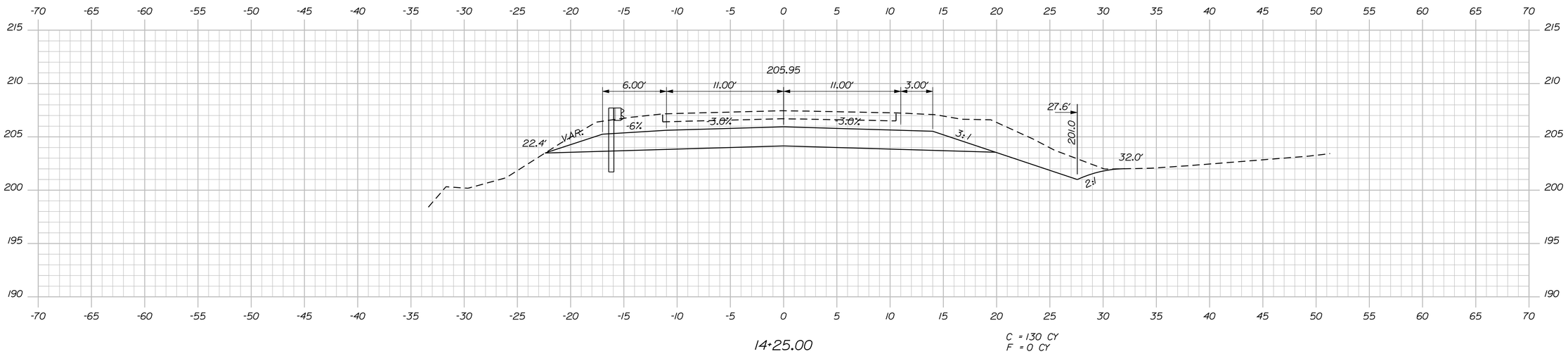
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

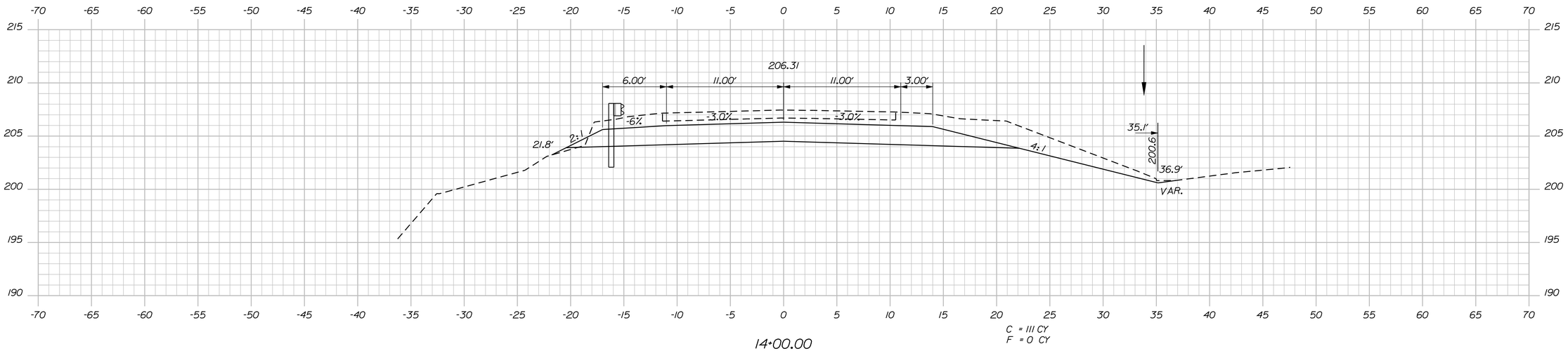
13+25.00 CROSS SECTIONS 13+75.00

SHEET NUMBER
21
OF 40

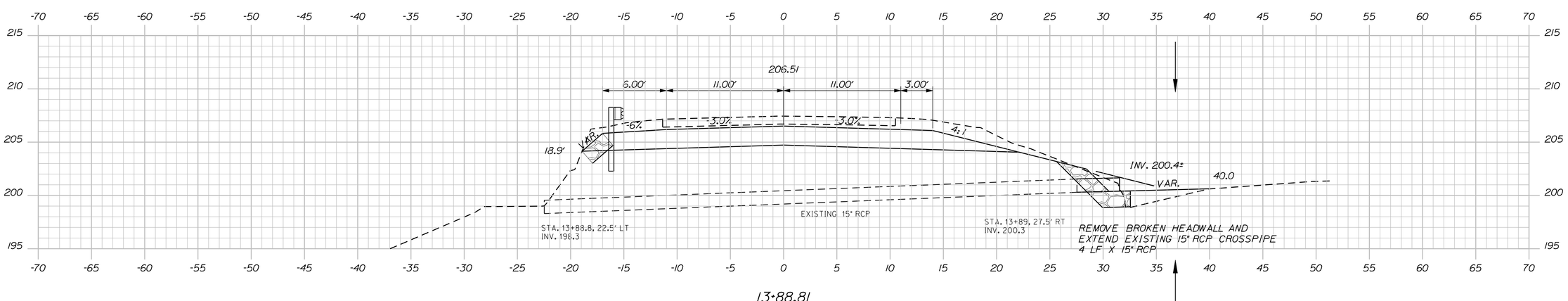
Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



14+25.00



14+00.00



13+88.81

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE			
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	AJG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

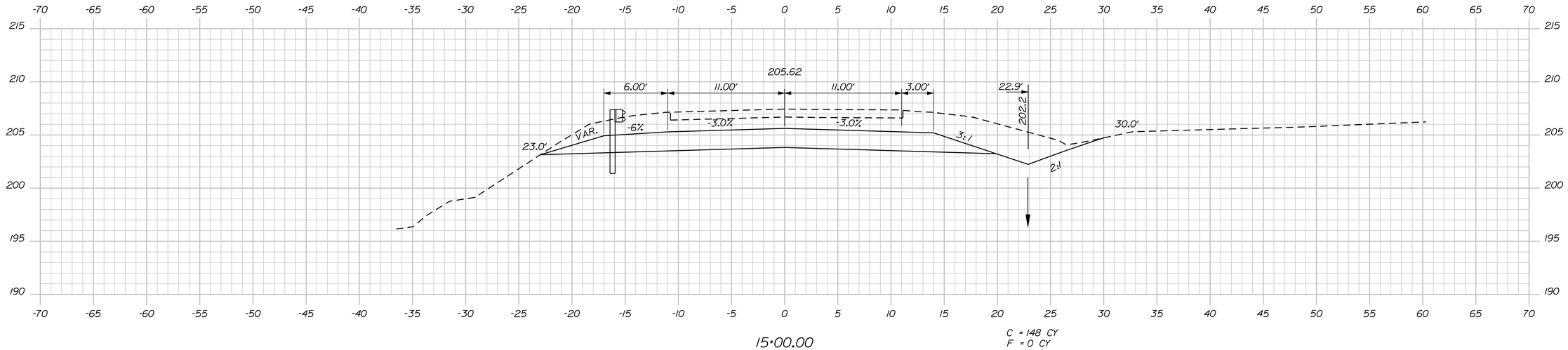
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

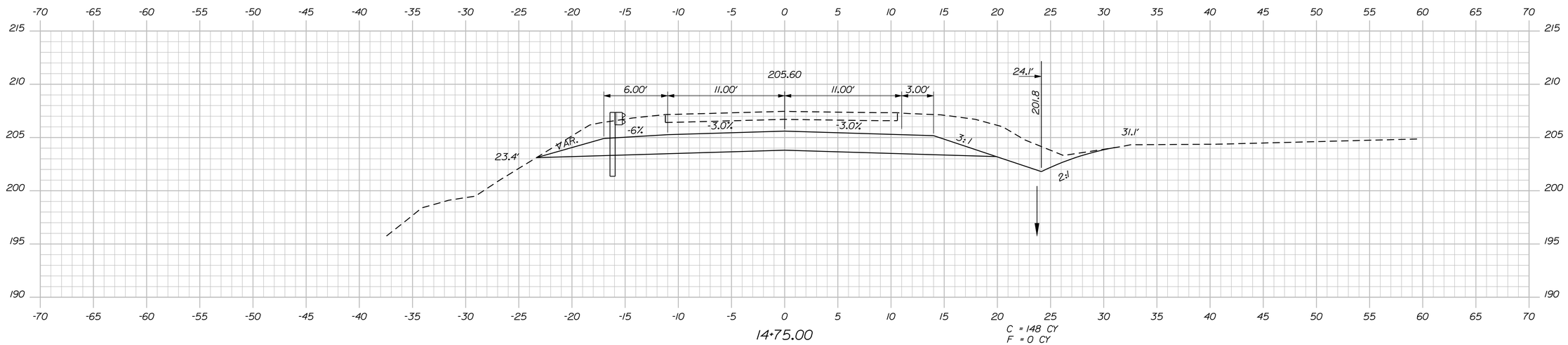
AUBURN
BLACK CAT ROAD

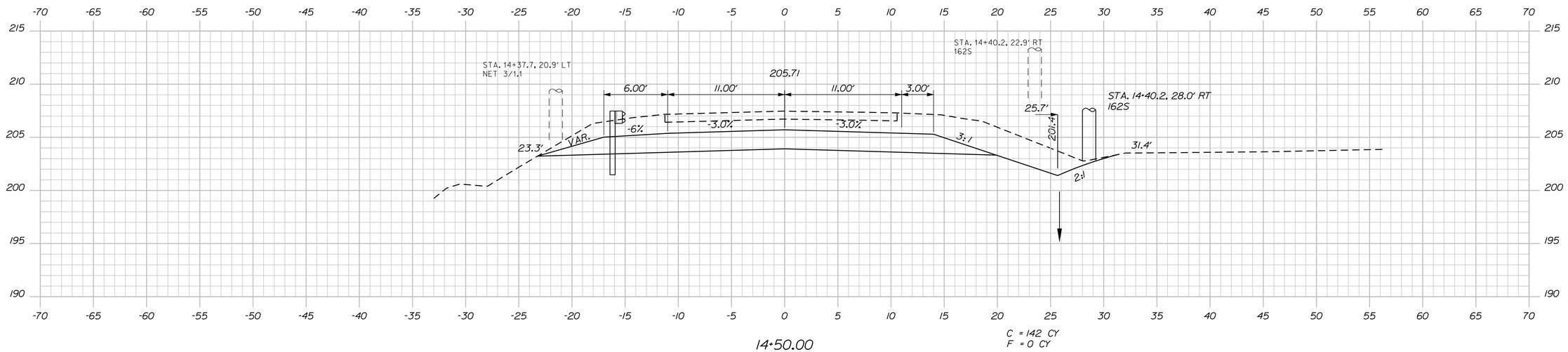
13+88.81 CROSS SECTIONS 14+25.00

SHEET NUMBER
22
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

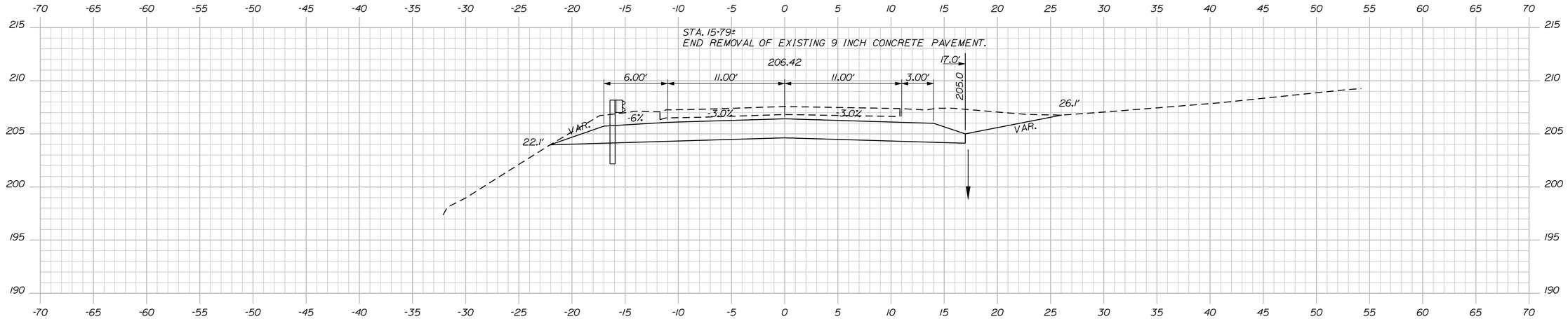
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

14+25.00 CROSS SECTIONS 15+00.00

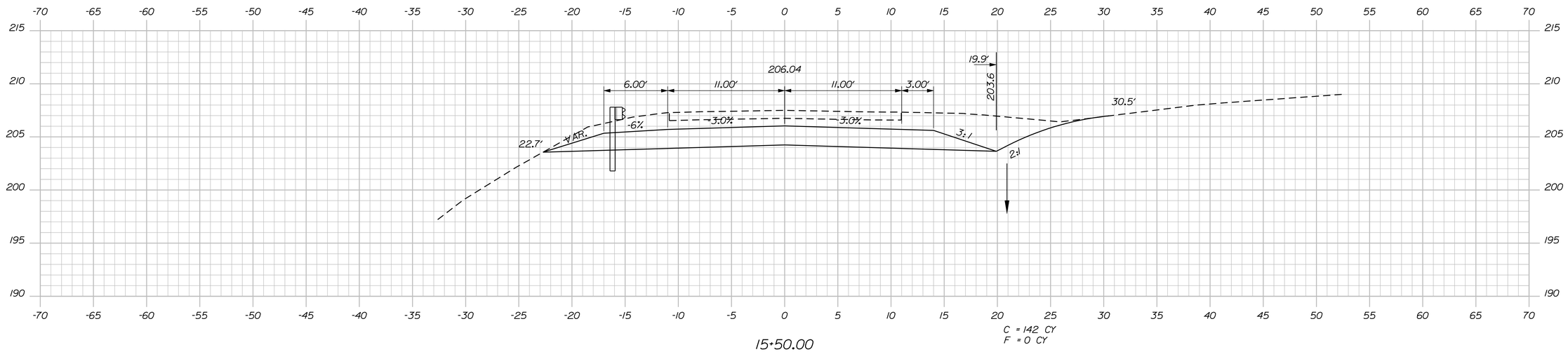
SHEET NUMBER
23
OF 40

Date:$date$
Username: $user$
Division: $wkgroup$
Filename: $file$



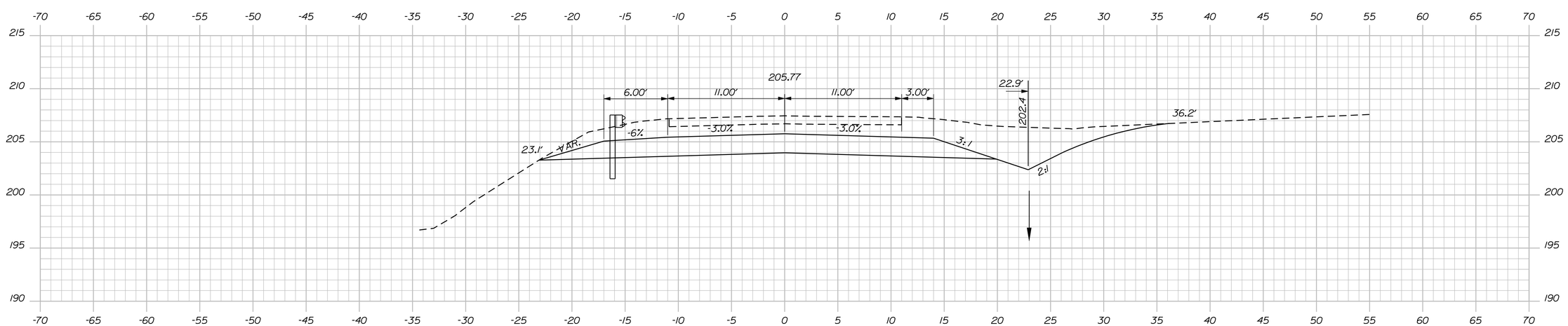
15+75.00

C = 120 CY
F = 0 CY



15+50.00

C = 142 CY
F = 0 CY



15+25.00

C = 151 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	JLE		5-11
DESIGN2-DETAILED2	ALG		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

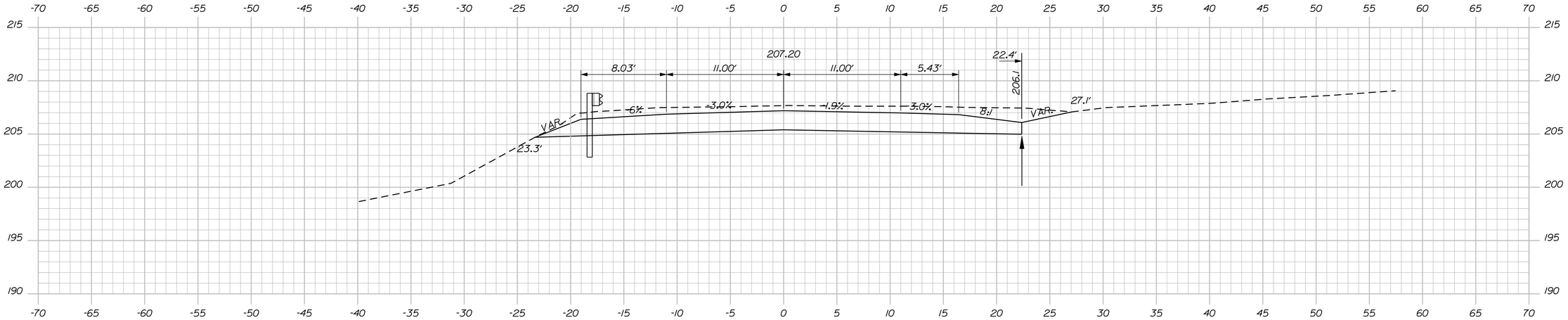
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

15+25.00 CROSS SECTIONS 15+75.00

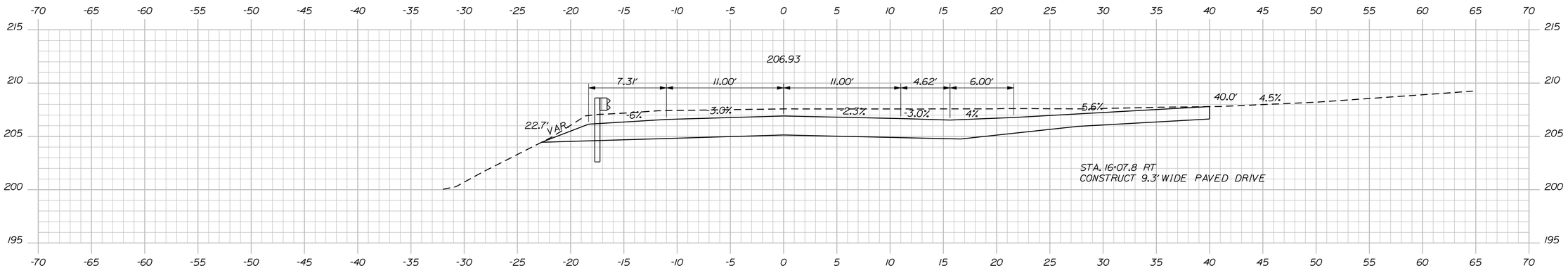
SHEET NUMBER
24
OF 40

Division: $wkgroup$ Username: $user$ Date:$date$
Filename: $file$

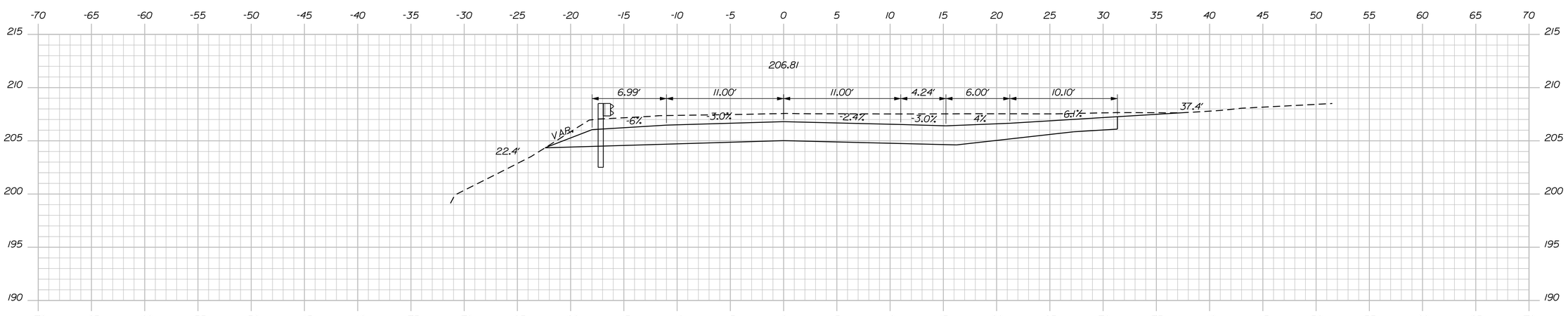


16+25.00

C = 120 CY
F = 0 CY



16+07.82



16+00.00

C = 115 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

SIGNATURE		
7960		
P.E. NUMBER		
MAY 25, 2011		
DATE		

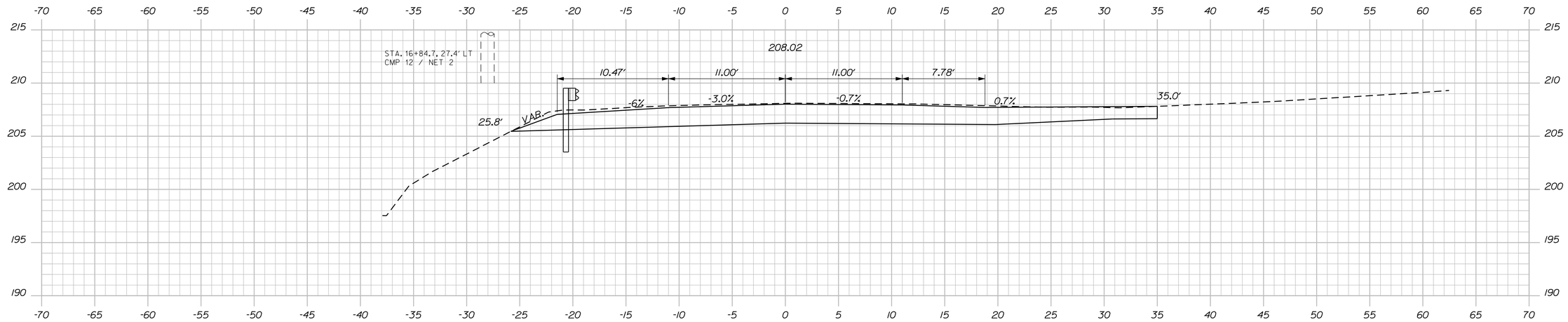
		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

AUBURN
BLACK CAT ROAD

16+00.00 CROSS SECTIONS 16+25.00

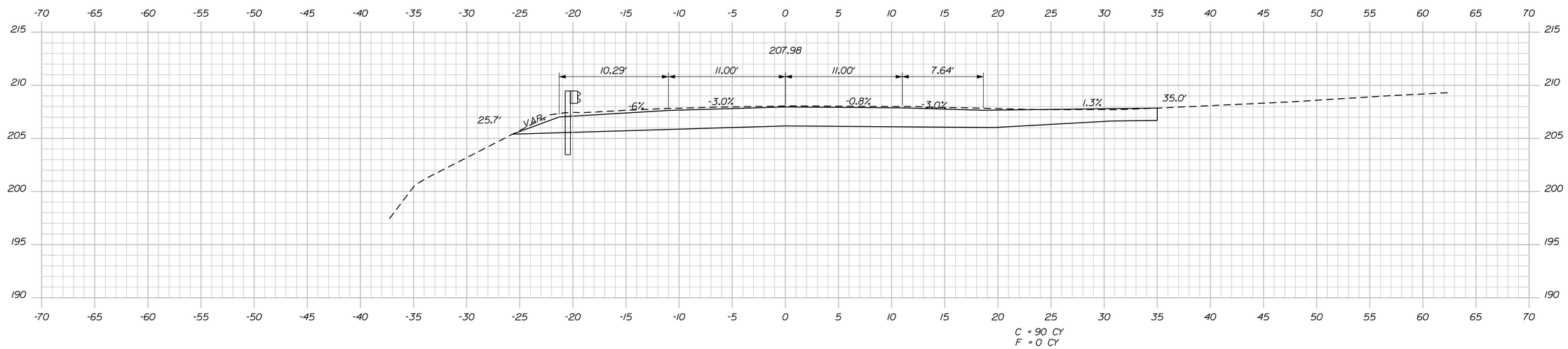
SHEET NUMBER
25
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

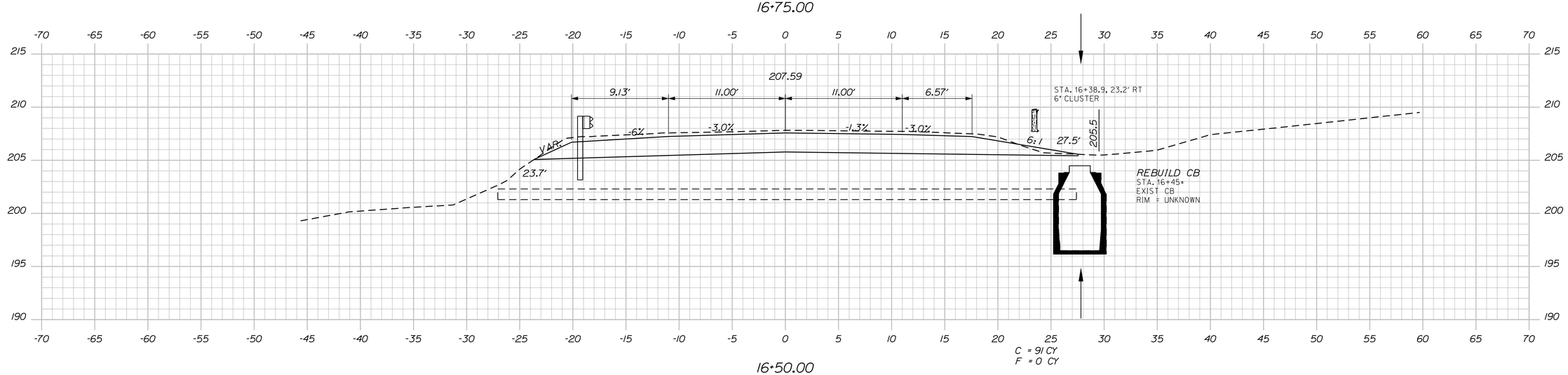


16+78.60

STA. 16+87.6 RT
CONSTRUCT 11.5' WIDE PAVED DRIVE



16+75.00



16+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

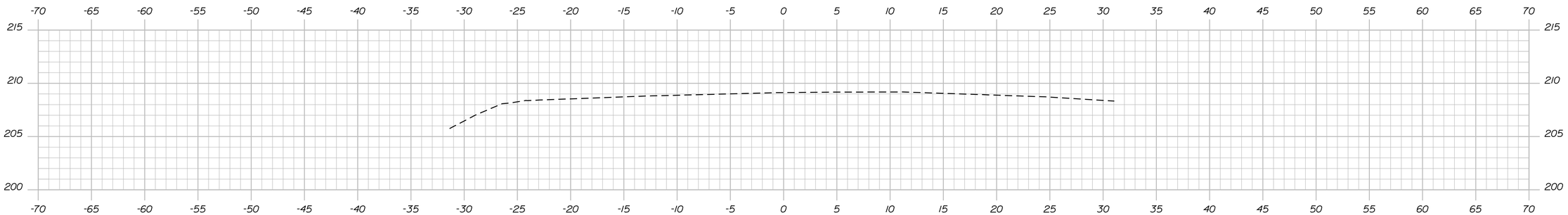
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

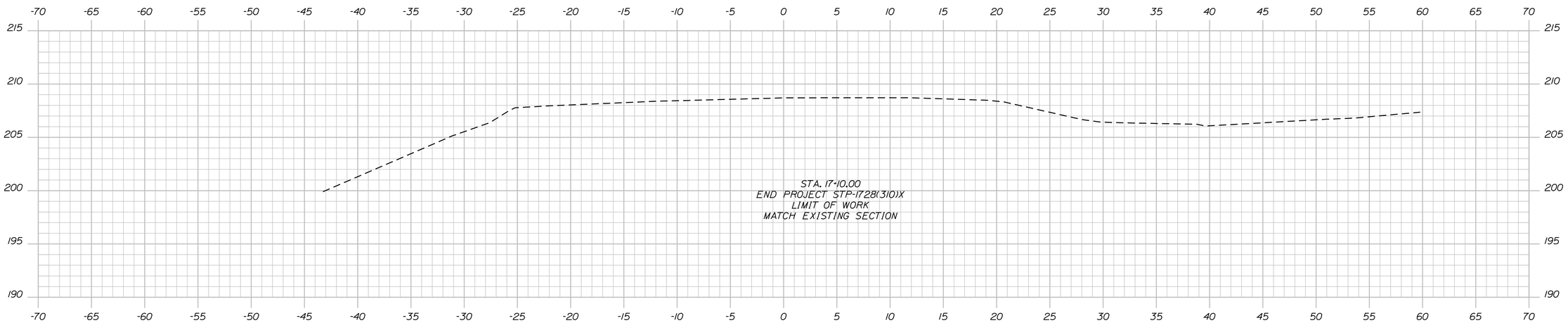
AUBURN
BLACK CAT ROAD

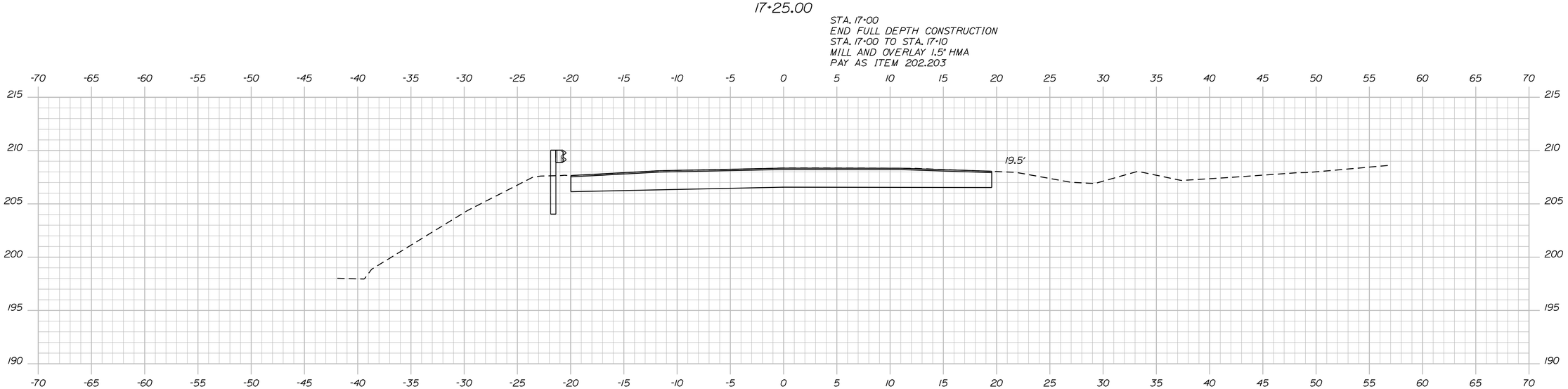
16+50.00 CROSS SECTIONS 16+78.60

SHEET NUMBER
26
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$







C = 57 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

PROJ. MANAGER JOEL WITTREDGE			
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

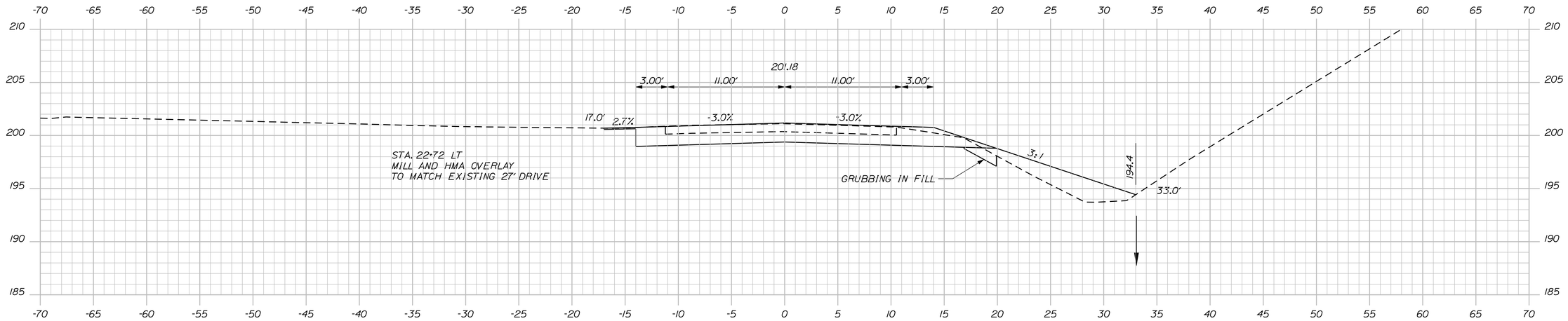
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
BLACK CAT ROAD

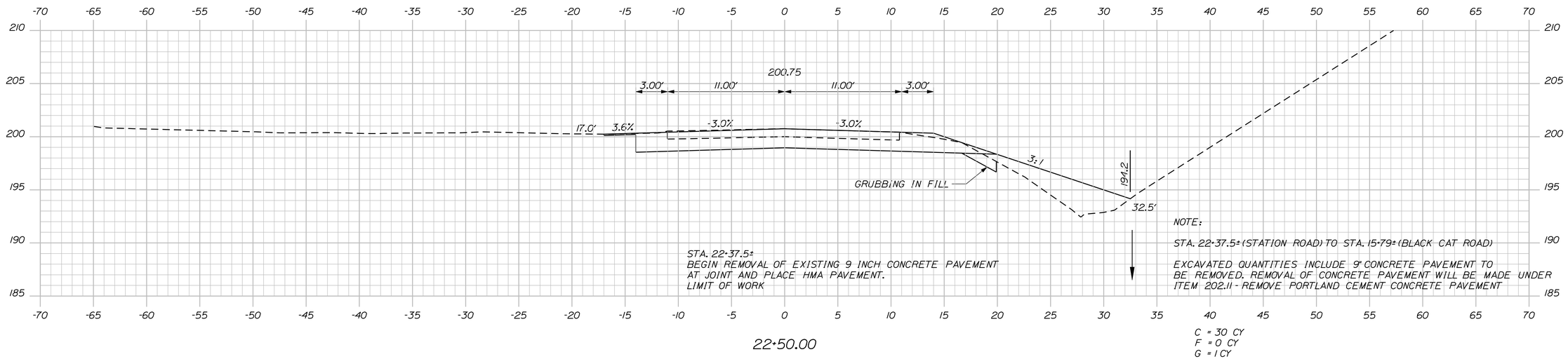
17+00.00 CROSS SECTIONS 17+50.00

SHEET NUMBER
27
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

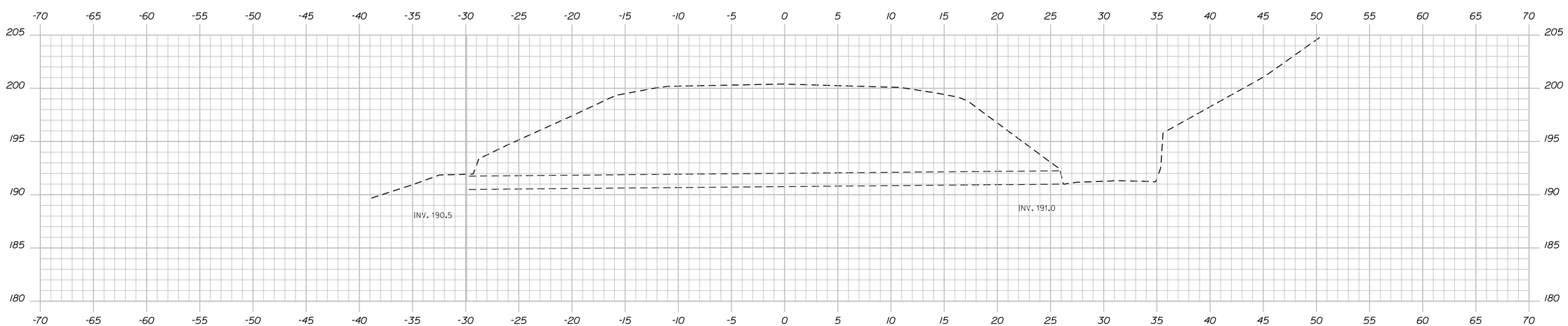


22+72.00



22+50.00

C = 30 CY
F = 0 CY
G = 1 CY



22+29.44

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

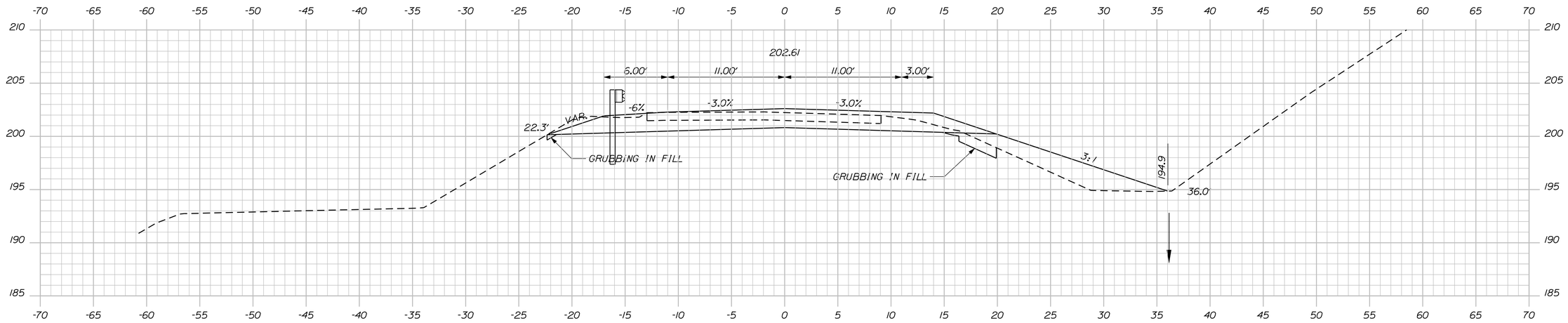
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

22+29.44 CROSS SECTIONS 22+72.00

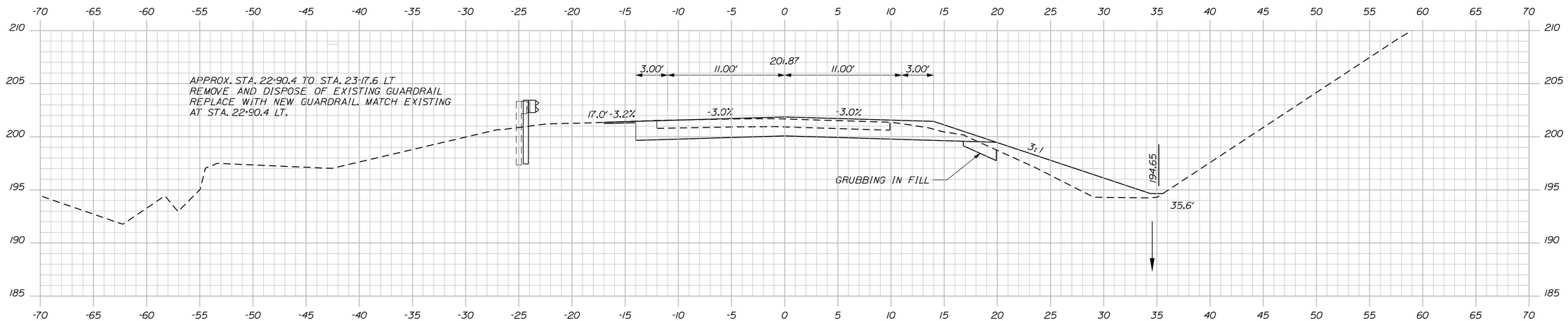
SHEET NUMBER
28
OF 40

Date:$date$
Username: $user$
Division: $wkgroup$
Filename: $file$



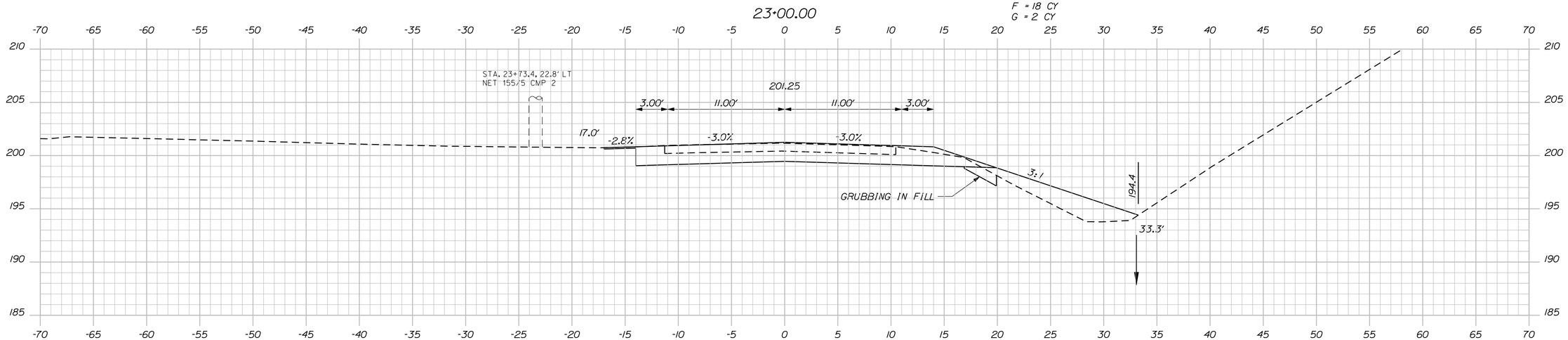
23+25.00

C = 49 CY
F = 22 CY
G = 3 CY



23+00.00

C = 54 CY
F = 18 CY
G = 2 CY



22+75.00

C = 54 CY
F = 20 CY
G = 2 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

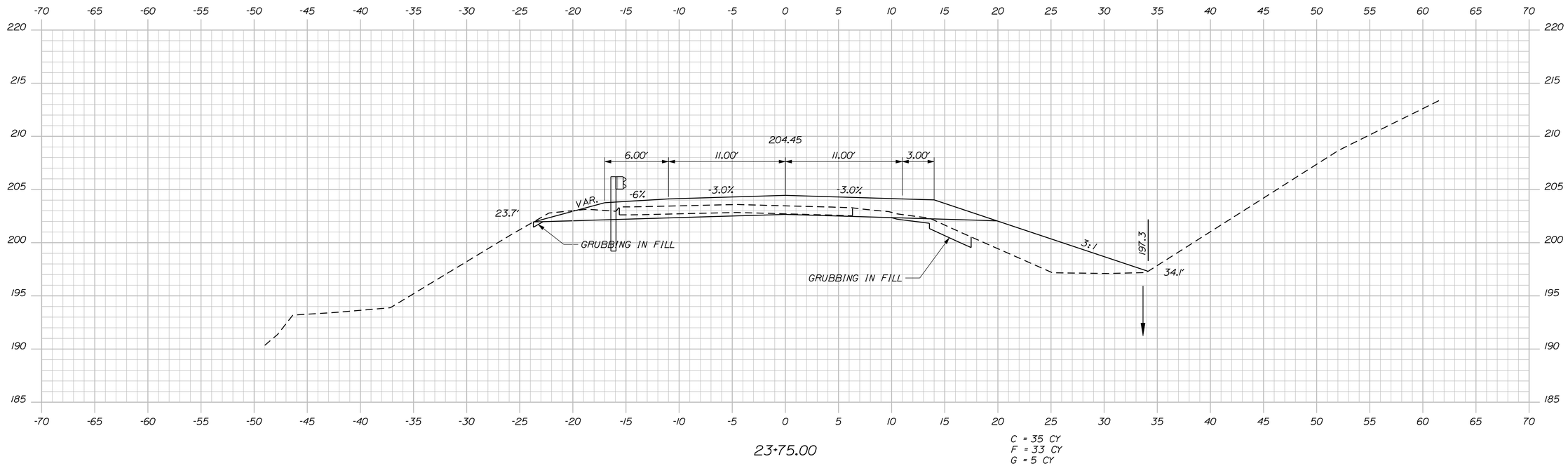
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

22+75.00 CROSS SECTIONS 23+25.00

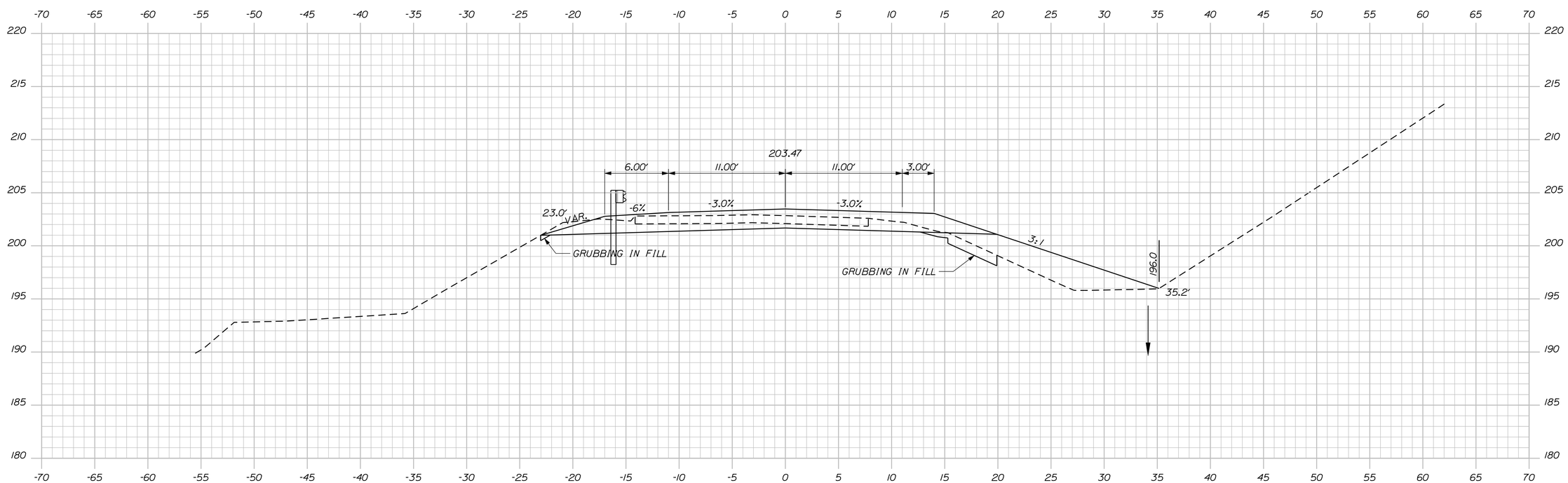
SHEET NUMBER
29
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



23+75.00

C = 35 CY
F = 33 CY
G = 5 CY



23+50.00

C = 45 CY
F = 28 CY
G = 4 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER JOEL KITTREDGE			
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

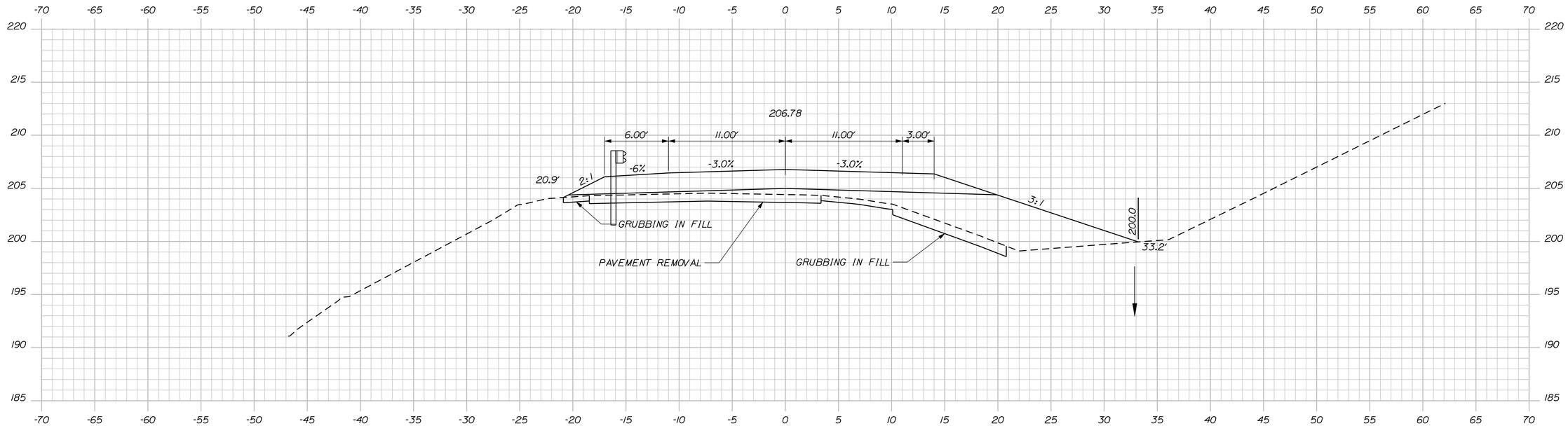
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

CROSS SECTIONS 23+75.00 23+50

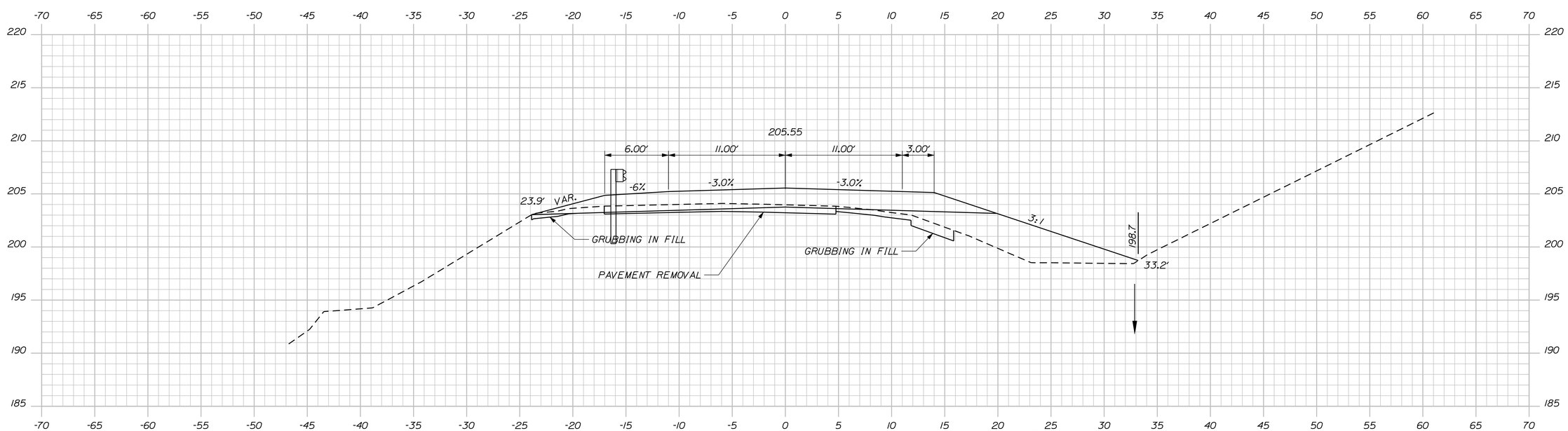
SHEET NUMBER
30
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



24+25.00

C = 17 CY
F = 66 CY
G = 11 CY



24+00.00

C = 24 CY
F = 42 CY
G = 6 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED	JLE	5-11
CHECKED-REVIEWED	ALG	5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

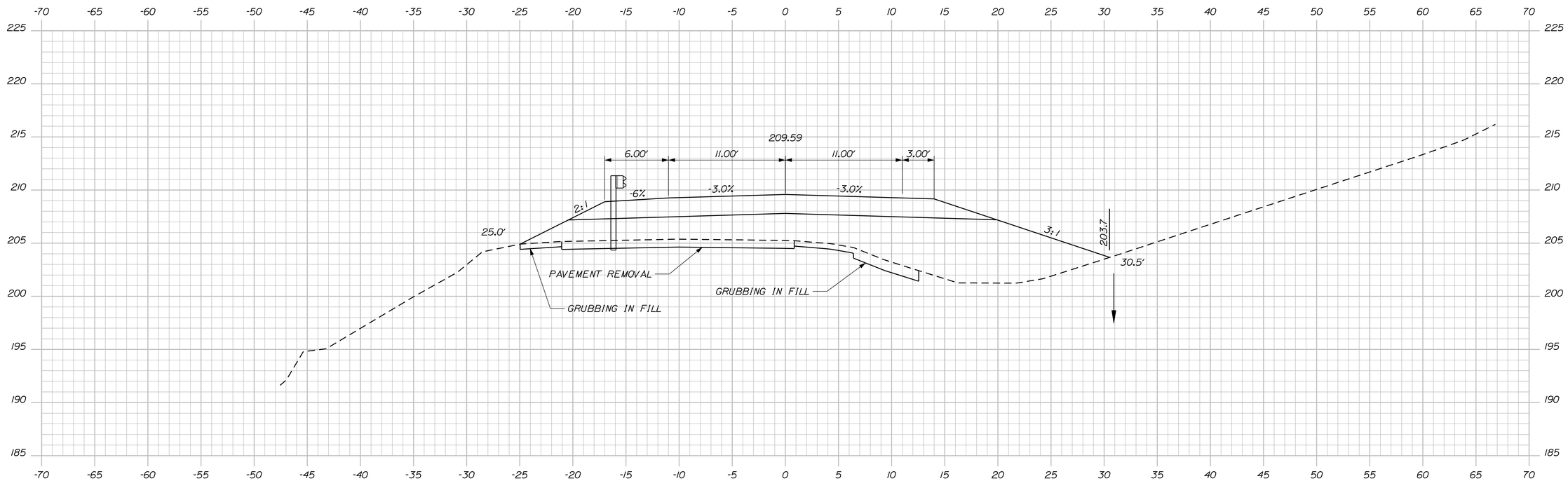
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

24+00.00 CROSS SECTIONS 24+25.00

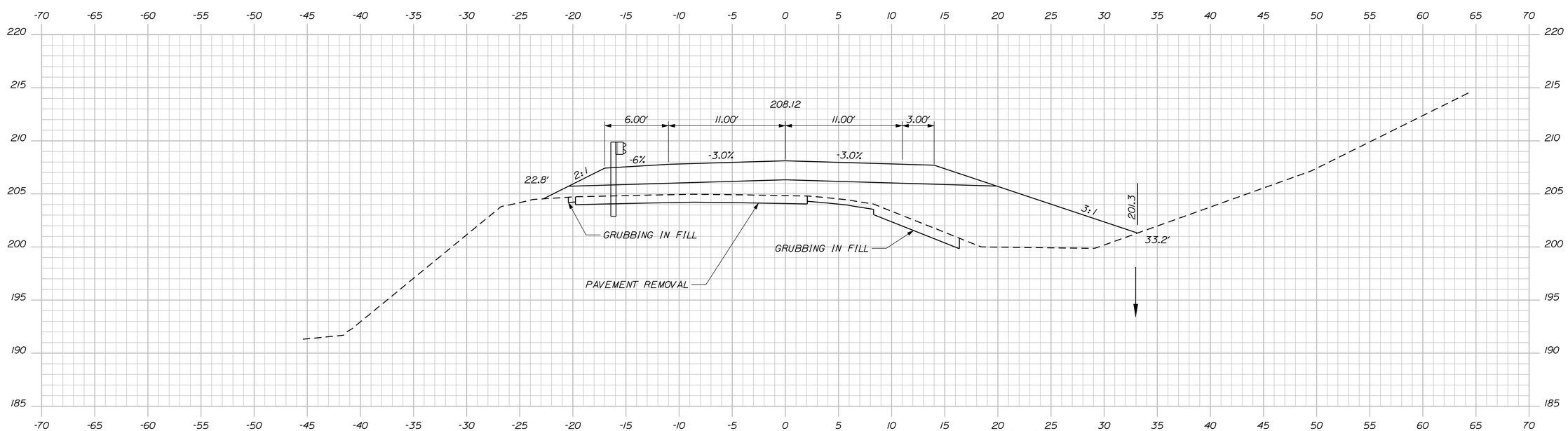
SHEET NUMBER
31
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



24+75.00

C = 15 CY
F = 149 CY
G = 10 CY



24+50.00

C = 15 CY
F = 106 CY
G = 12 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER JOEL KITTREDGE		
DESIGN-DETAILED	JLE	5-11
CHECKED-REVIEWED	ALG	5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

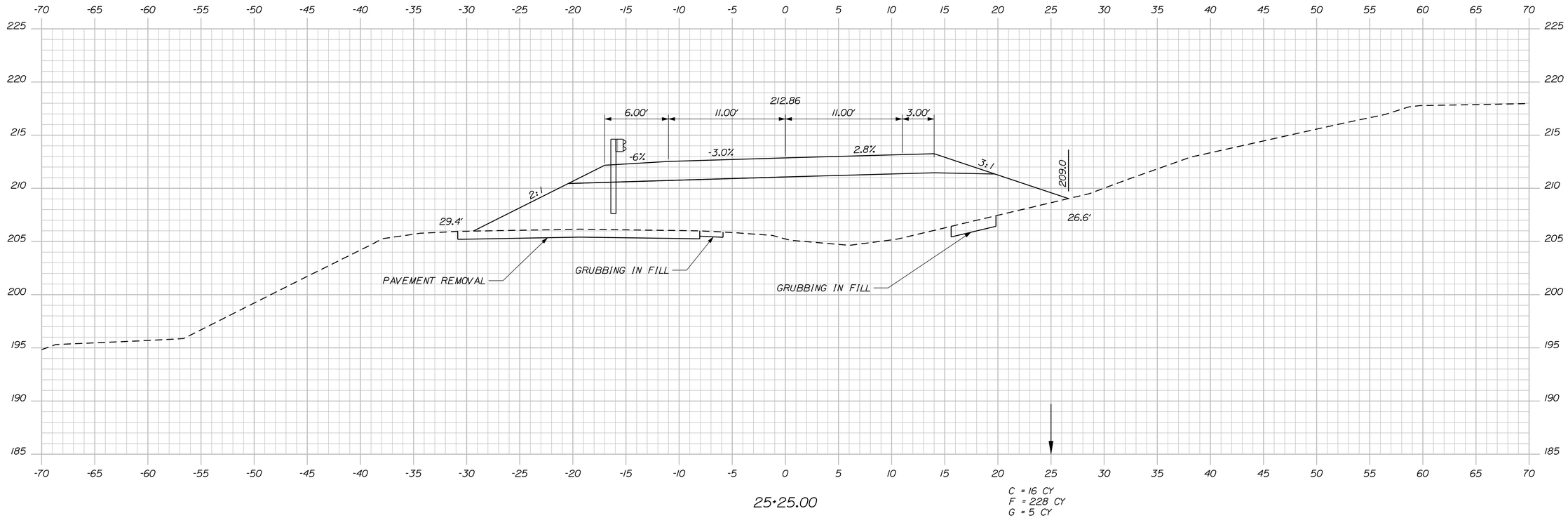
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

24+50.00 CROSS SECTIONS 24+75.00

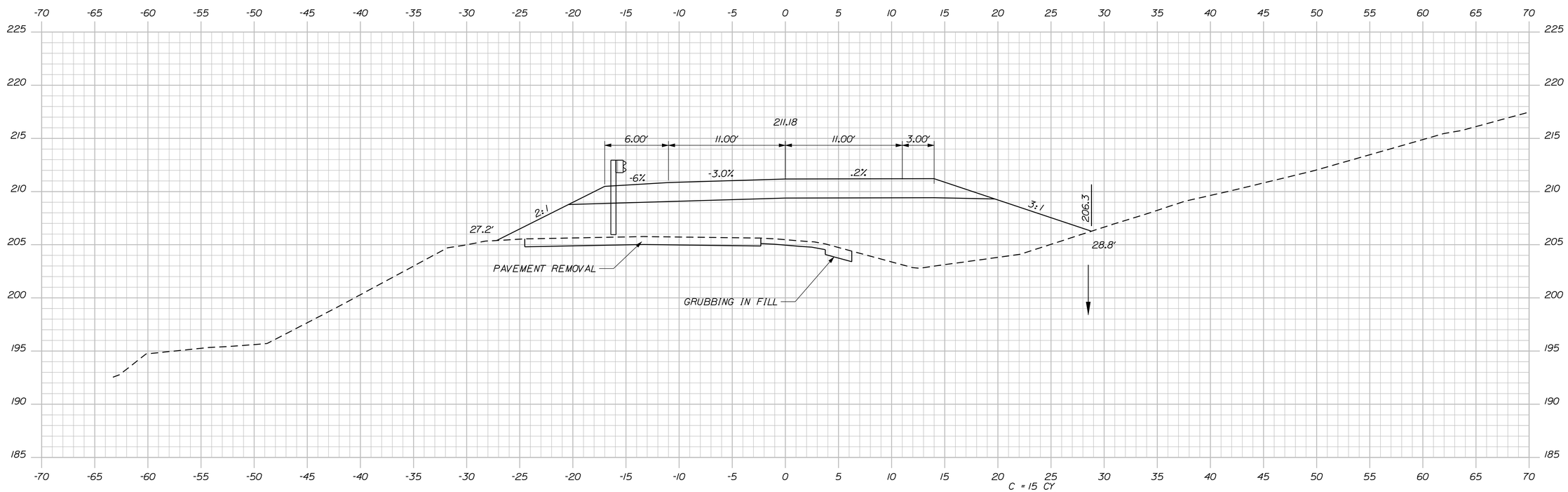
SHEET NUMBER
32
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



25+25.00

C = 16 CY
F = 228 CY
G = 5 CY



25+00.00

C = 15 CY
F = 193 CY
G = 8 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER JOEL KITTREDGE			
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

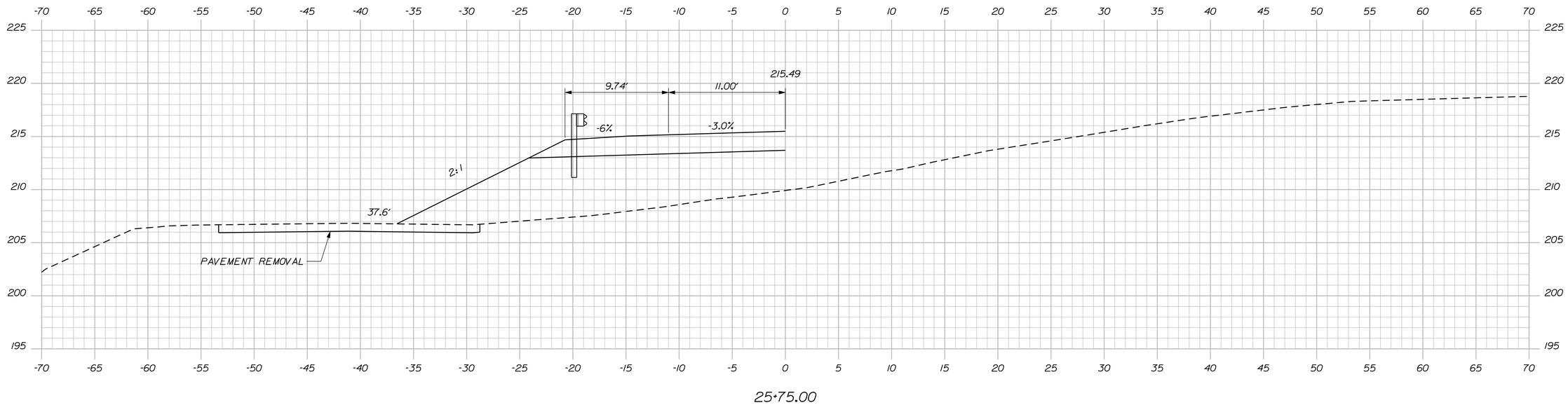
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
STATION ROAD

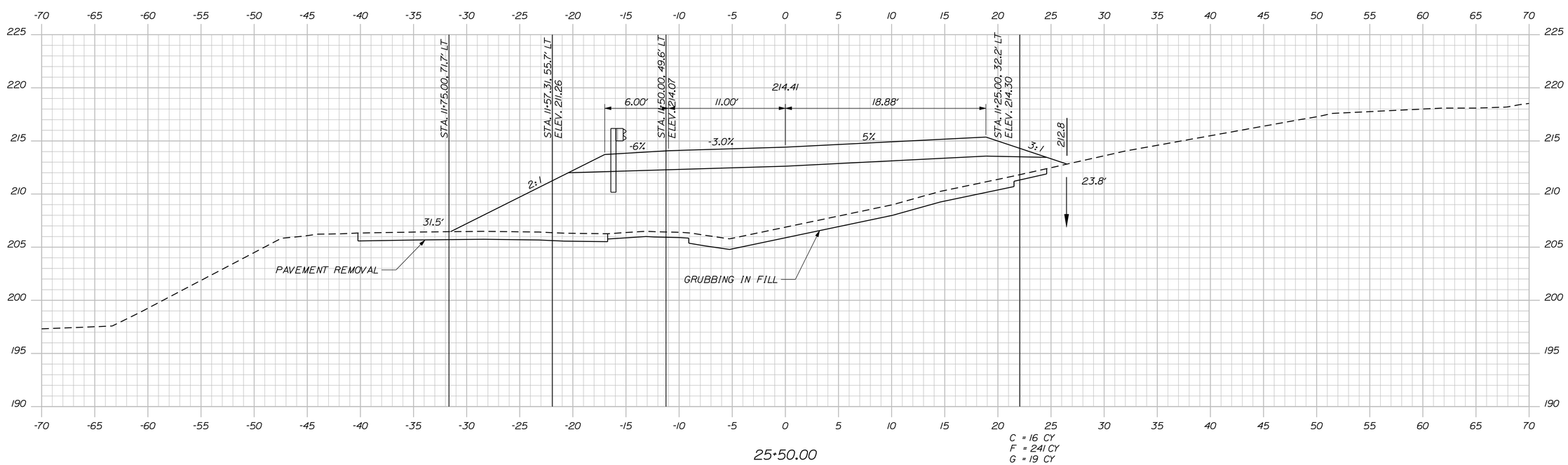
25+00.00 CROSS SECTIONS 25+25.00

SHEET NUMBER
33
OF 40

Date:$date$
Username: $user$
Division: $wkgroup$
Filename: $file$



25+75.00



25+50.00

C = 16 CY
F = 241 CY
G = 19 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE			
DESIGN-DETAILED	JLE	BY	DATE
CHECKED-REVIEWED	ALG	JLE	5-11
DESIGN2-DETAILED2			5-11
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

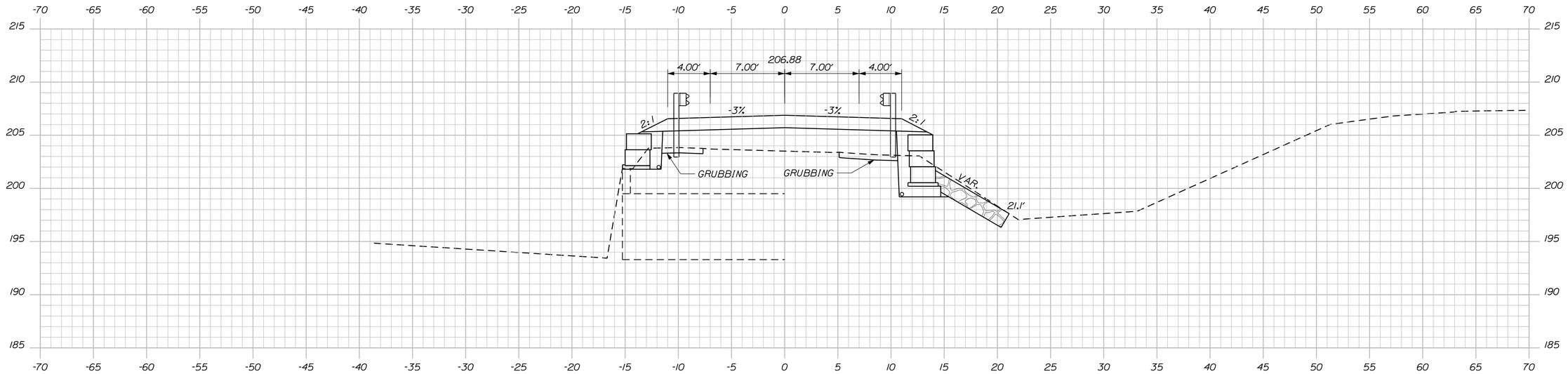
AUBURN
STATION ROAD

CROSS SECTIONS 25+50.00

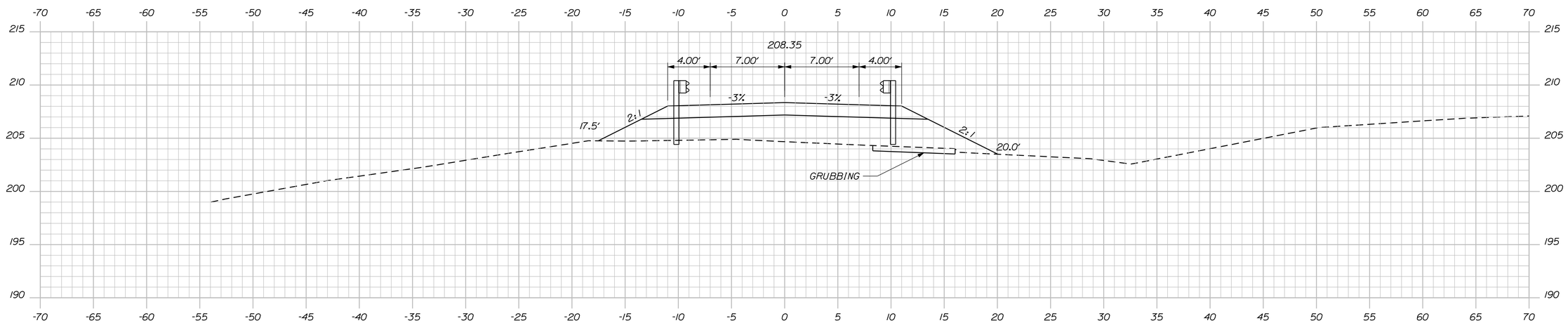
25+50.00

SHEET NUMBER
34
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

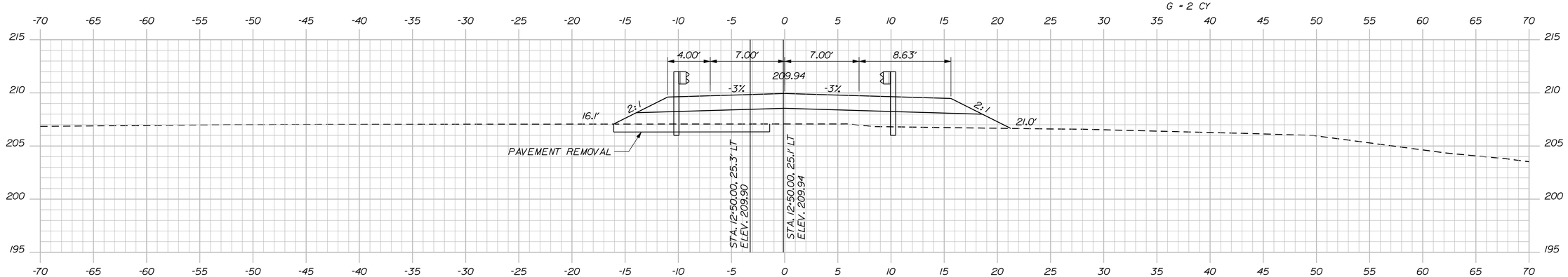


30+72.06



30+50.00

C = 5 CY
F = 66 CY
G = 2 CY



30+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

PROJ. MANAGER	JOEL KITTREDGE	BY	DATE
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

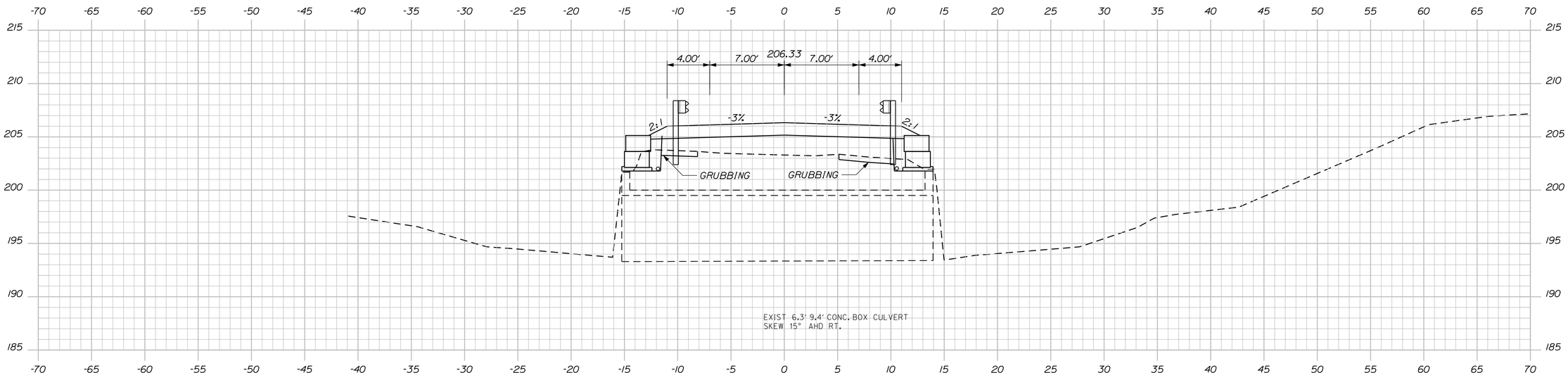
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
PRIVATE DRIVE

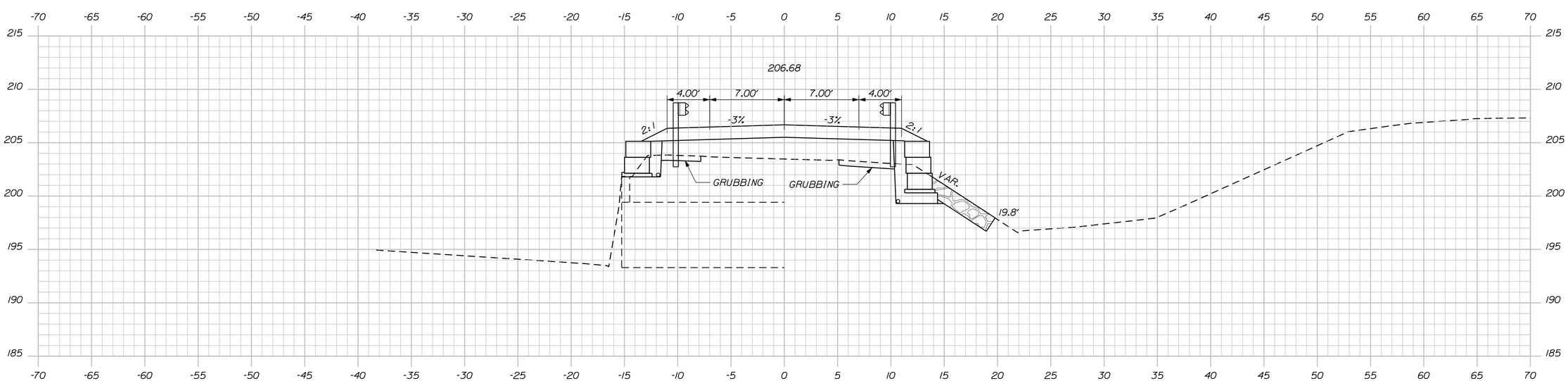
30+25.00 CROSS SECTIONS 30+72.06

SHEET NUMBER
35
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



30+80.28



30+75.00

C = 0 CY
F = 57 CY
G = 6 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

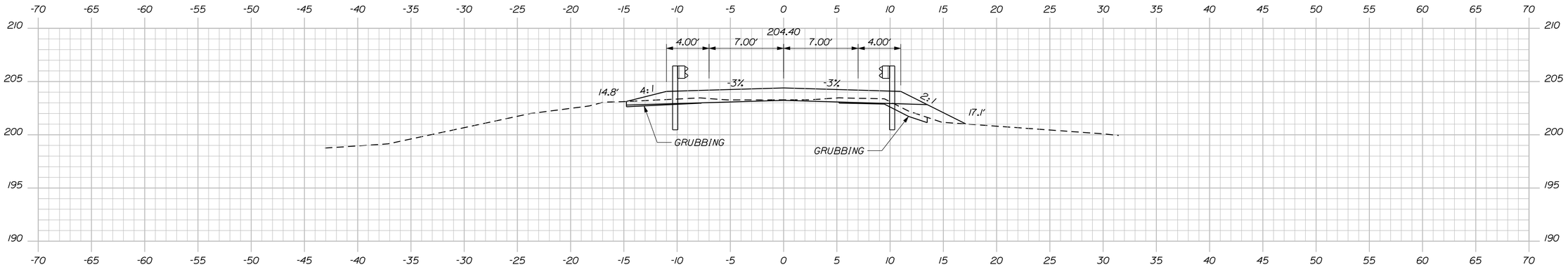
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
PRIVATE DRIVE

30+75.00 CROSS SECTIONS 30+80.28

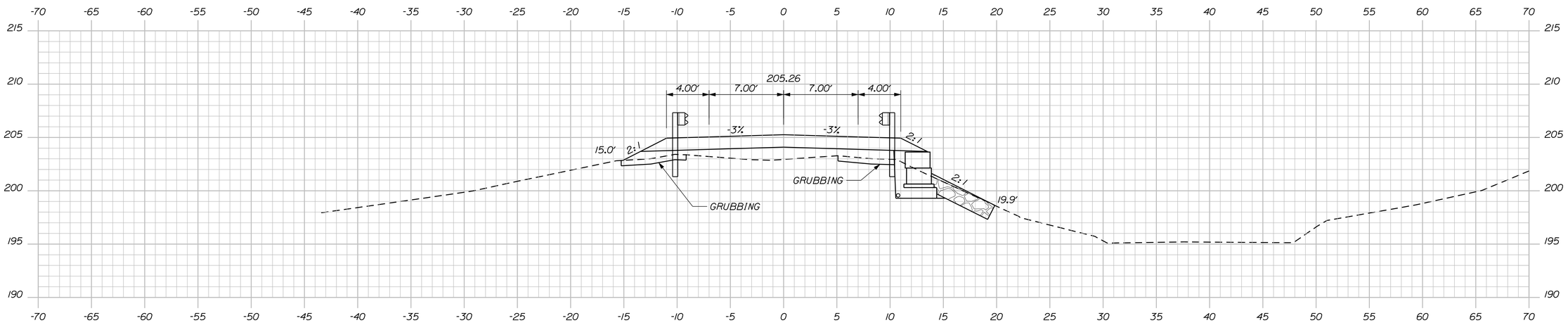
SHEET NUMBER
36
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$



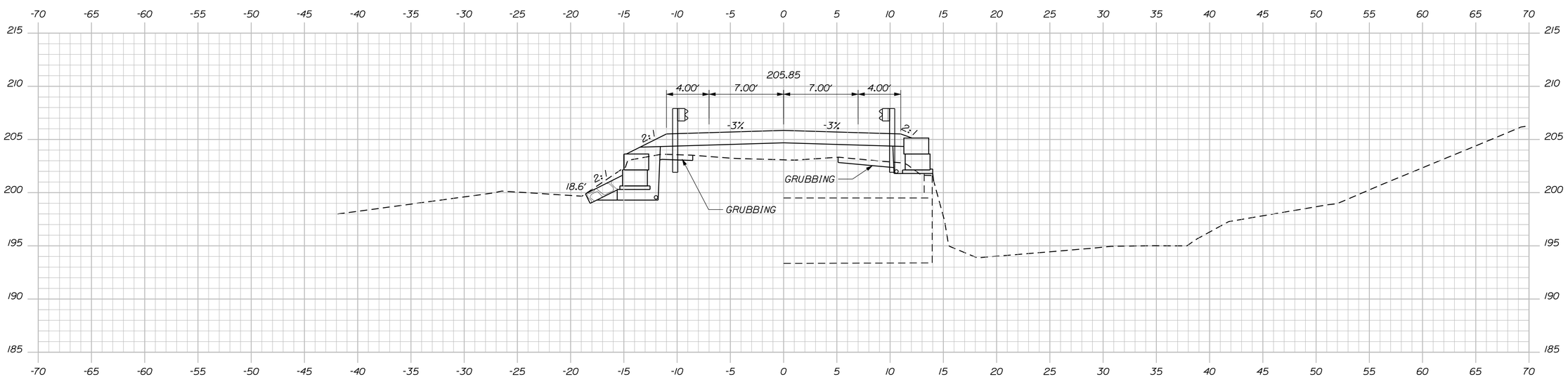
31+25.00

C = 3 CY
F = 15 CY
G = 5 CY



31+00.00

C = 0 CY
F = 30 CY
G = 7 CY



30+88.34

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

PROJ. MANAGER JOEL KITTREDGE	BY	DATE
DESIGN-DETAILED JLE	JLE	5-11
CHECKED-REVIEWED ALG		5-11
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

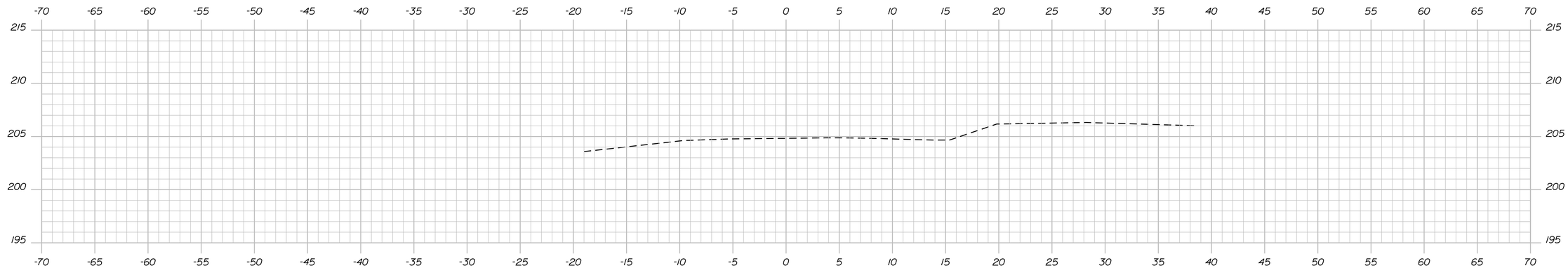
SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

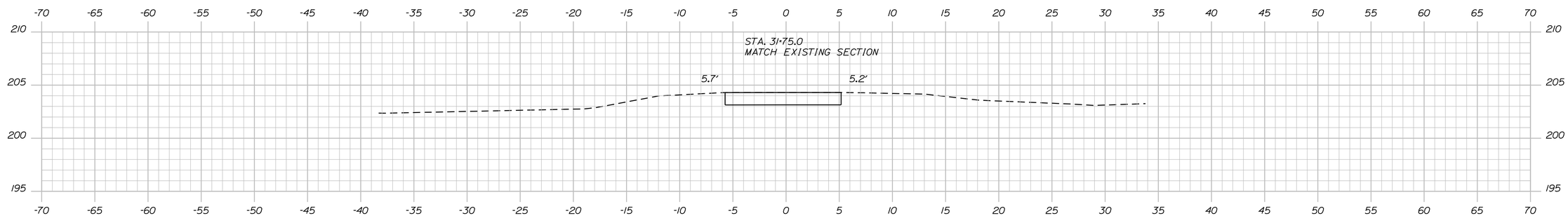
AUBURN
PRIVATE DRIVE

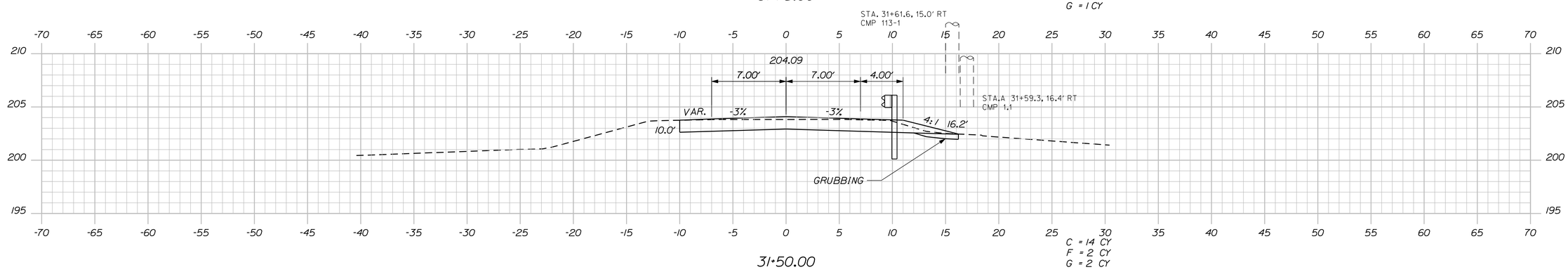
CROSS SECTIONS 31+25.00
30+80.34

SHEET NUMBER
37
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1728(310)X

PIN
17283.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JOEL KITTREDGE		
DESIGN-DETAILED	JLE	JLE	5-11
CHECKED-REVIEWED	ALG		5-11
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
MAY 25, 2011
DATE

AUBURN
PRIVATE DRIVE

31+50.00 CROSS SECTIONS 32+00.00

SHEET NUMBER
38
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

RIGHT OF WAY REFERENCES

STATE HIGHWAY "E":
ANDROSCOGGIN COUNTY
VOL. 5, PG. 80 1912
4 RODS (ABANDONED)

BLACK CAT ROAD:
ANDROSCOGGIN COUNTY
VOL. 3, PG. 165 1879
4 RODS

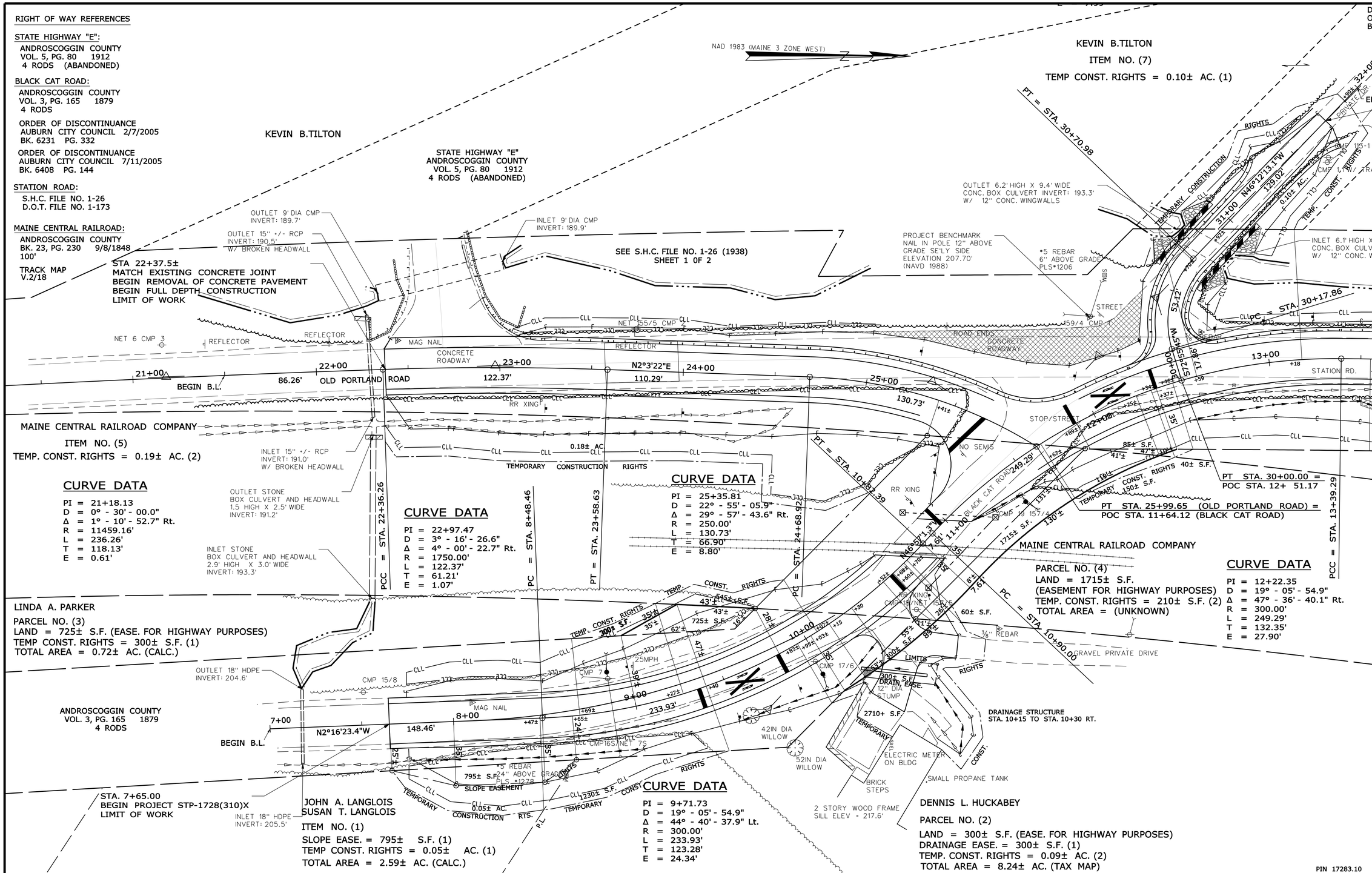
ORDER OF DISCONTINUANCE
AUBURN CITY COUNCIL 2/7/2005
BK. 6231 PG. 332

ORDER OF DISCONTINUANCE
AUBURN CITY COUNCIL 7/11/2005
BK. 6408 PG. 144

STATION ROAD:
S.H.C. FILE NO. 1-26
D.O.T. FILE NO. 1-173

MAINE CENTRAL RAILROAD:
ANDROSCOGGIN COUNTY
BK. 23, PG. 230 9/8/1848
100'

TRACK MAP
V.2/18



CURVE DATA

PI = 21+18.13
D = 0° - 30' - 00.0"
Δ = 1° - 10' - 52.7" Rt.
R = 11459.16'
L = 236.26'
T = 118.13'
E = 0.61'

CURVE DATA

PI = 22+97.47
D = 3° - 16' - 26.6"
Δ = 4° - 00' - 22.7" Rt.
R = 1750.00'
L = 122.37'
T = 61.21'
E = 1.07'

CURVE DATA

PI = 25+35.81
D = 22° - 55' - 05.9"
Δ = 29° - 57' - 43.6" Rt.
R = 250.00'
L = 130.73'
T = 66.90'
E = 8.80'

CURVE DATA

PI = 9+71.73
D = 19° - 05' - 54.9"
Δ = 44° - 40' - 37.9" Lt.
R = 300.00'
L = 233.93'
T = 123.28'
E = 24.34'

CURVE DATA

PI = 12+22.35
D = 19° - 05' - 54.9"
Δ = 47° - 36' - 40.1" Rt.
R = 300.00'
L = 249.29'
T = 132.35'
E = 27.90'

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
KENNETH SWEENEY
CHIEF ENGINEER
DATE

BLACK CAT ROAD / STATION ROAD
AUBURN ANDROSCOGGIN COUNTY
FEDERAL AID PROJECT NO. STP-1728(310)X

MAY 2011 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 1-303
SCALE 1" = 25' | SHEET 1 OF 2

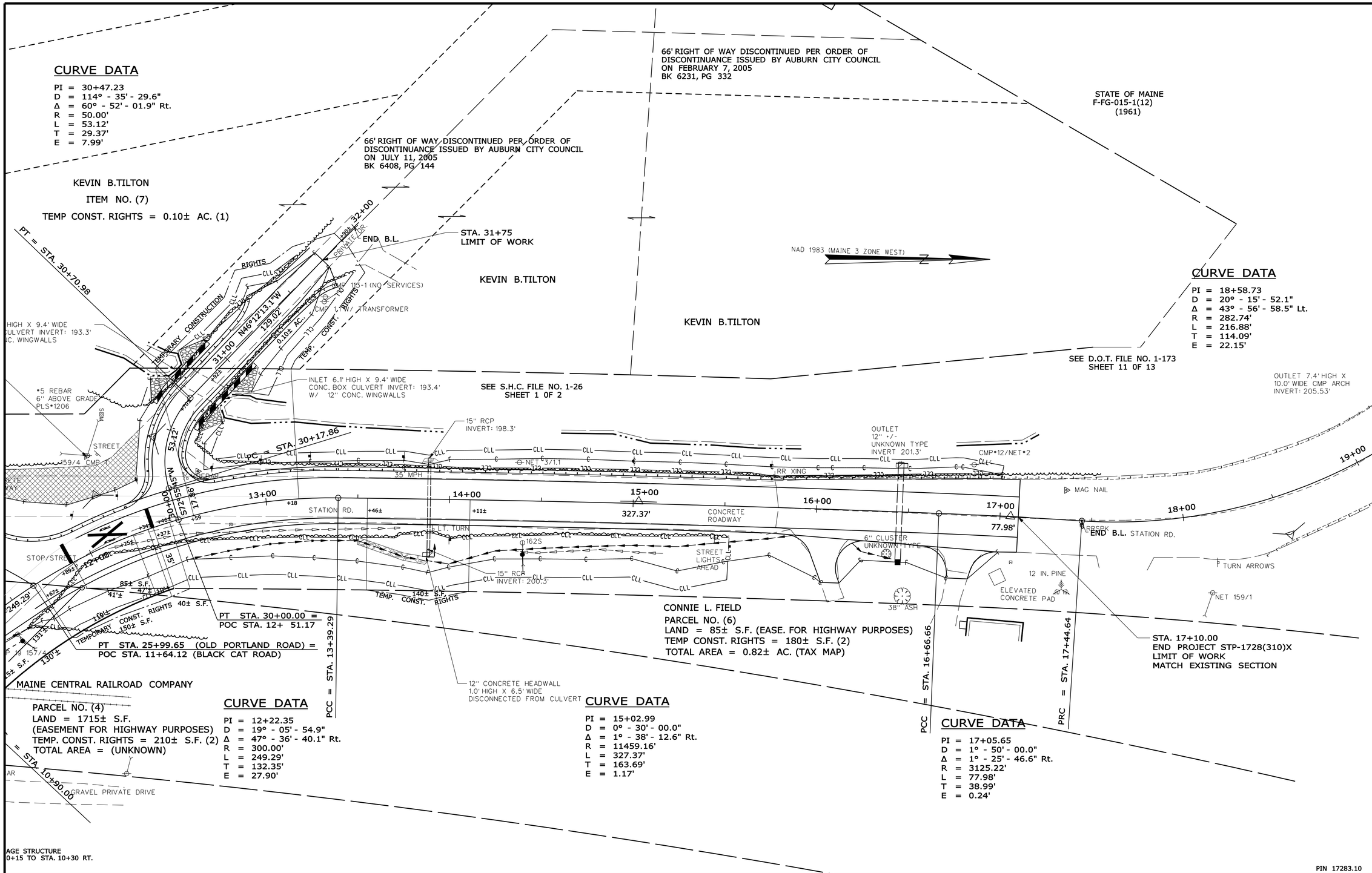
SYMBOLS
WELL
GRADING LIMIT LINE
CONSTRUCTION LIMIT LINE
PROPERTY LINE
LIMITS OF ARGUS IN FORTON
EXISTING RIGHT OF WAY
NEW RIGHT OF WAY
NEW ROW WITHIN EXIST. ROW
CONTROL OF ACCESS
I.P. (IRON PIPE or PIN)
S.T. (SEPTIC TANK)
(ROW MONUMENT)
&BM (TRAVERSE POINT)
WATER LINE
GAS LINE
ELECTRIC LINE
TELEPHONE LINE
SEWER LINE

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

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

SHEET NUMBER
39
OF 40

Division: $wkgroup$ Username: $user$ Date:$date$
Filename: $file$



SYMBOLS

- ● I.P. (IRON PIPE or PIN)
- ☐ S.T. (SEPTIC TANK)
- ⊕ B.M. (TRAVERSE POINT)
- ○ WELL (WELL)
- GRADING LIMIT LINE
- CONS. PROPERTY LIMIT LINE
- PL PROPERTY LINE
- LIMITS OF ARGUS IN FORTON
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- WL WATER LINE
- GL GAS LINE
- EL ELECTRIC LINE
- TL TELEPHONE LINE
- SEWER LINE

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

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

AGE STRUCTURE
0+15 TO STA. 10+30 RT.

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
KENNETH SWEENEY
CHIEF ENGINEER
DATE

BLACK CAT ROAD / STATION ROAD
AUBURN ANDROSCOGGIN COUNTY
FEDERAL AID PROJECT NO. STP-1728(310)X

MAY 2011	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 1-303
SCALE 1" = 25'	SHEET 2 OF 2	

SHEET NUMBER
40
OF 40

Filename: $file$ Division: $wkgroup$ Username: $user$ Date: $date$