Ridge Road Extension

Phase I

from Decubellis road to W. of Suncoast Parkway

Supplemental Submittal to U.S. Army Corps of Engineers

Additional Wetland Impact Minimization Efforts

Prepared For:

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Updated 5-20-11

RIDGE ROAD EXTENSION
Pasco County Florida
County Project No C 6686.20

WETLAND MINIMIZATION EFFORTS

Initial Efforts

Numerous wetland minimization techniques have been incorporated into all segments of the Ridge Road Extension project. One minimization technique used throughout Phase I of the project was use of the minimum recommended widths for the sidewalk and shared use path. Per the Florida Bicycle Facilities Planning and Design Handbook and the FDOT Plans Preparation Manual (PPM) the minimum paved width for a two-directional shared use path is 12'. The minimum width for a sidewalk that is separated from the roadway curb is 5' per the PPM. The 5' wide sidewalk is adequate for bi-directional use by pedestrians. The shared use path is by its nature intended for bi-directional use by a variety of users including pedestrians/bicyclists/skaters/runners. Lesser widths for the sidewalk or shared use path as a means of wetland impact minimization would not meet the needs of the users or comply with recommended design criteria. Slopes utilized adjacent to the sidewalk and shared use path when passing through wetlands were steepened to 1:3 from the more desirable and easily maintained 1:4 to further minimize impacts.

Median widths used were the minimum required based on future widening of Phase I to 6 lanes. Within the Phase I urban segment this was 40'. Within the limits of Serenova, where adjacent land is and will remain undeveloped, a rural typical section with a 64' wide median and 70 mph design speed is used. A higher design speed is appropriate since there will be no direct access providing for a long uninterrupted section of roadway with geometry and adjacent topography that encourages higher operating speeds. The 64' wide median was selected to allow for future widening of the roadway to six lanes without the need for the introduction of median barrier or a reduction in design speed. The use of an urban typical section with curb and gutter and a 45 mph design speed would be inappropriate within this area and contribute to unsafe conditions for the traveling public. **No sidewalk is used within Serenova, only a shared use path on the right side thereby reducing the width of the roadway footprint.**

Within the rural segment of Phase I (Decubellis to Suncoast) that passes through the Serenova preserve the minimization efforts have been extensive and have contributed to a significant decrease of wetland impacts albeit with a substantial increase in estimated construction costs for Pasco County. As part of the original wetland impact minimization efforts for this segment, a comparative study was completed that quantified the wetland impacts, costs, and safety considerations of five rural typical section alternatives. The study was submitted to SWFWMD in support of the application for an Environmental Resource Permit. Per the results of the study, the typical sections utilized through Serenova were determined to minimize impacts to wetlands to the maximum extent

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practicable considering costs, applicable design criteria and public safety. Rather than utilizing a typical open swale drainage approach the County elected to utilize shoulder gutter with inlets and storm sewer system to capture and convey runoff from the rural typical section when the roadway passes through wetlands. This costly shoulder gutter approach reduces the width of the embankment and limits of construction thereby reducing wetland impacts. Additionally, the front slopes within the clear recovery area had been steepened to the maximum allowed 1:4 from the recommended 1:6 and the shared use path alignment was shifted closer to the roadway to the limit of the clear recovery area. The impact reduction of these minimization techniques varies with fill height. For embankment sections in the 6' to 8' high range the reduction in wetland impacts is approximately 18%. As within the urban segment, the minimum recommended path width of 12' for two-way usage is utilized within the rural segment for additional minimization of wetland impacts.

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Additional Efforts

Additional wetland impact minimization efforts have been explored and incorporated into the project for the rural segment of Phase I per comments received as part of the USACOE review process and as discussed with Mike Nowicki of the USACOE on June 9, **2004. The additional minimization efforts consist of narrowing of the median within a segment of the project that passes through Serenova, additional steepening of the front slopes and use of an alternative typical section for the shared use path.**

The median narrowing from 64' to 40 ' allows for minimization in two ways while maintaining the overall alignment and right of way as previously developed. The reduction in width of the embankment results directly from the 24' reduction of median width. Additionally, minor adjustments to the alignment can be made by reducing the median width from the left side, from the right or equally from both sides. After comparison of these three alternatives it was determined that reducing the median width from the right side resulted in the greatest reduction in wetland impacts since there are more wetlands being traversed to the right of the project.

Additional steepening of the front slopes from 1:4 to 1:2 is also incorporated into the design on both sides of the road. This steepening changes the character of the slopes with respect to vehicle recovery from recoverable to non-traversable and/or hazardous. Therefore guardrail is needed to shield these slopes from errant vehicles. The steepening of the slopes directly reduces the extent of the embankment by 2' for each 1' of fill height and thereby reduces wetland impacts.

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Although the discussions with the USACOE included the proposed use of a boardwalk type structure for the shared use path in place of pavement on fill as a means to further reduce wetland impacts, it was determined that an alternative typical section using a retaining wall would achieve the nearly the same impact reductions. The use of the boardwalk was studied and deemed less practicable then the use of retaining/gravity wall. The primary reason for this was that the boardwalk, if implemented adjacent to the roadway, impeded a key project design function for the facility – access to wildlife and

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SWFWMD vehicle crossings. The boardwalk would also have to accommodate both maintenance and emergency vehicles that need access to the path since the path is to be continuously fenced from the roadway. To overcome these impediments the boardwalk could be designed to support vehicle loadings and provide vertical clearance to allow access to the crossings (8' clear vertical). These design parameters would be in excess of those normally employed for a wooden boardwalk type structure thereby increasing the construction costs significantly. A wooden boardwalk would also create a long-term maintenance expense to account for plank replacement on a regular basis compounded by the occasional maintenance and emergency vehicle use. Although not requiring fill for construction, the 12' width of the path would present a considerable clearing and permanent shading impact to the wetlands when constructed.

The use of an alternative typical section for the shared use path that utilizes a retaining and/or gravity wall with railing adjacent to the path was selected as the preferred minimization alternative as it provides significant impact reduction without the design impediments or cost of the boardwalk. The path is located behind the guardrail and fence and the path profile follows the roadway profile thereby crossing over the wildlife and vehicle crossings. The alternative typical section with the use of retaining wall is used whenever the height of fill is greater than 2'. When the fill height is less than 2' a 1:2 fill slope is used for constructability considerations.

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Where the height of fill is over 10' the use of the retaining wall reduces wetland impacts compared to the use of a 1:2 slope behind the guardrail and the path located on a separate alignment on a boardwalk. When the fill height is less than 10' the impacts are slightly greater. The difference in impacts between the use of the retaining wall versus a fill slope with the trail on a boardwalk is 0.030 acres less impacts for the fill slope with boardwalk alternative. However, the use of a boardwalk for the path creates over 0.5 acres of clearing and shading impacts within the wetlands. The estimated cost of a boardwalk structure designed for the loadings and vertical clearance discussed above is approximately $1,300 per lineal foot, which is more than three times as costly than the use of paved path, retaining wall and railing. Thus, the use of the alternative typical section utilizing the path on fill with a retaining wall and railing is deemed the most practicable minimization approach for path construction.

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The estimated construction costs associated with these minimization efforts amounts to $360,890. Thus Pasco County will bear an estimated cost of $80,300 per acre of wetland impact reduction as a result of these additional minimization efforts. Cost estimate amounts are in 2005 dollars.

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Reduction in Computed Impacts at Bridge over Pithlachascotee River

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Permanent wetland impacts at the Pithlachascotee River crossing were originally computed as being the full width of the right of way passing through the wetlands. This resulted in a computed wetland impact of 5.38 acres to Wetland 10. This computed impact was reduced from the full right of way width to the limits of construction. The resulting wetland impact is reduced to 4.08 acres a reduction of 1.23 acres. After bridge

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construction is complete wetlands adjacent to the bridge that were disturbed by construction will re-emerge making actual permanent wetland impacts attributed to the bridge less than computed using the limits of construction. It is noted that the shading impacts associated with the bridge have been considered the same as permanent fill impacts and the computed WRAP loss units assume the shading as a fill impact.
Summary of Wetland Impact Reductions

Summary of Wetland Impact Reductions

The resulting reduction in wetland impacts from the additional minimization efforts described above undertaken since the original Public Notice for the project in 2000 is 5.33 acres. **The locations of the** wetland impacts based on the final design are **shown on the** attached Ridge Road Phase I ACOE Plan Sheets and summarized on the Summary of **Wetland Impact Areas table.** The table provides a summary of the impacts as proposed in 2000, the impacts associated with the final design and the differences between the two. All wetland resources that are impacted by the project are included regardless of jurisdictional determination.

OTHER ITEMS:

New Wildlife Crossing in Serenova

As a result of consultation with the US Fish & Wildlife Service, a wildlife crossing consisting of twin 120' long conventional highway bridge structures is incorporated into the project within the Serenova preserve. Incorporation of the new bridge structures resulted in significant changes in the vertical alignment for the project. The crossing itself is within upland areas although the westbound approach passes through wetlands. To minimize the wetland impacts associated with the increased height of the roadway a vertical wall is used where the embankment passes through wetland 16.

Stormwater Management And Flood Plain Compensation Facilities:

As part of the wetland avoidance efforts for the project all stormwater management facilities (ponds) for Phase I are located in upland areas. Additionally all ponds have a 25' wide, average, 15' wide minimum, buffer between the pond limits of construction and the **jurisdictional wetland lines.** The **flood plain compensation area (FPC) is also located in uplands** with one exception. **The hydraulic connection to the flood plain, a necessity for the compensation sites to function, extends into the adjacent wetlands. To minimize the permanent impacts associated with this connection it is designed as a very narrow ditch. For ease of legal description the boundaries of the pond and flood compensation sites** have been made geometrically simple. Due to this approach some portions of the boundaries cross through wetland jurisdictional lines. This does not affect the limits of construction restrictions for the facilities as described above.

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Permanent wetland impacts at the Pithlachasscotee River crossing were originally computed as being the full width of the right of way passing through the wetlands. This resulted in a computed wetland impact of 5.381 acres to Wetland 10. This computed impact was reduced from the full right of way width to the limits of construction. The resulting wetland impact is reduced to 4.152 acres a reduction of 1.229 acres. After bridge construction is complete wetlands adjacent to the bridge that were disturbed by construction will re-emerge making actual permanent wetland impacts attributed to th ... [1]

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Summary of Wetland Impact Areas
U.S. Army Corps of Engineers Wetland Lines
Ridge Road Phase I
From Decubellis Road to Wast of the Suncoast Parkway

Wetland Number	Impact Area (Acres) 2000 Public Notice	**Impact Area (Acres) Final Design**	Impact Reductions (Acres) Since Public Notice	
			LOC	Other
W2	0.30	0.30	0.00	
W3	0.004	0.01	-0.01	
W4	0.2	0.20	0.00	
W5	0.61	0.76	-0.15	
W5A	0.18		0.18	
W6	5.61	5.58	0.03	
W6A		0.03	-0.03	
W7A	0.47	0.26	0.21	
W7B		0.21	-0.21	
W10	5.38	4.08	1.30	
W11	2.1	1.07	1.03	
W12	3.81	2.51	1.30	
W13	4.48	2.91	1.57	
W14	0.38	0.39	-0.01	
W15	1.78	1.78	0.00	
W16	1.76	1.48	0.28	
W17	0.46	0.44	0.02	
W18A	0.13	0.13	0.00	
Total	27.65	**22.14**	5.51	
			Total Reduction:	5.51

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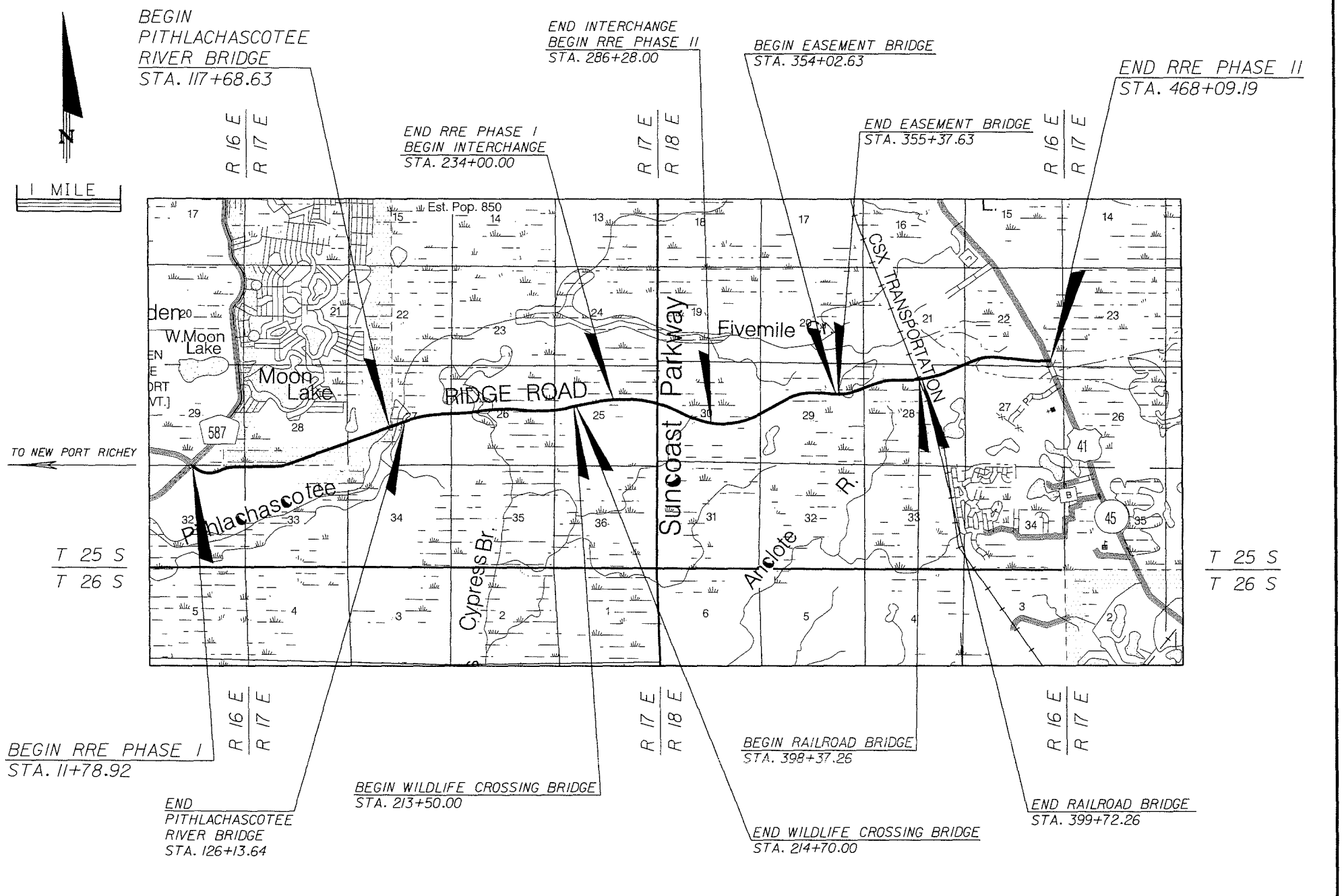

PITMAN HARTENSTEIN & ASSOCIATES, ENGINEERS, INC. 6989 EAST FOWLER AVENUE, TAMPA, FLORIDA 33617 EB# 4464 THOMAS J. MONTGOMERY, P.E. NO. 35008 (813) 988-1862

PASCO COUNTY

RIDGE ROAD EXTENSION PHASE I

LOCATION MAP

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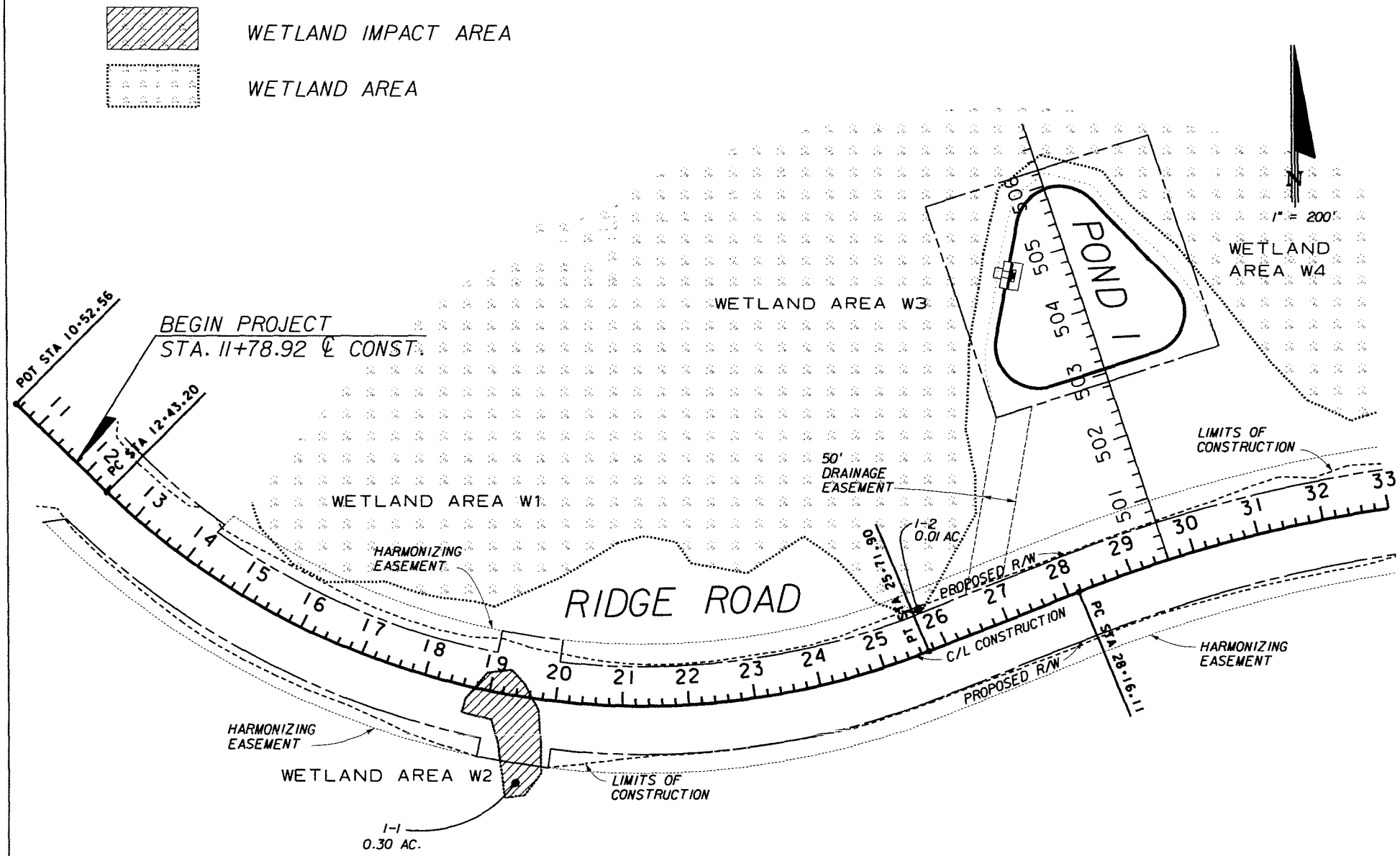

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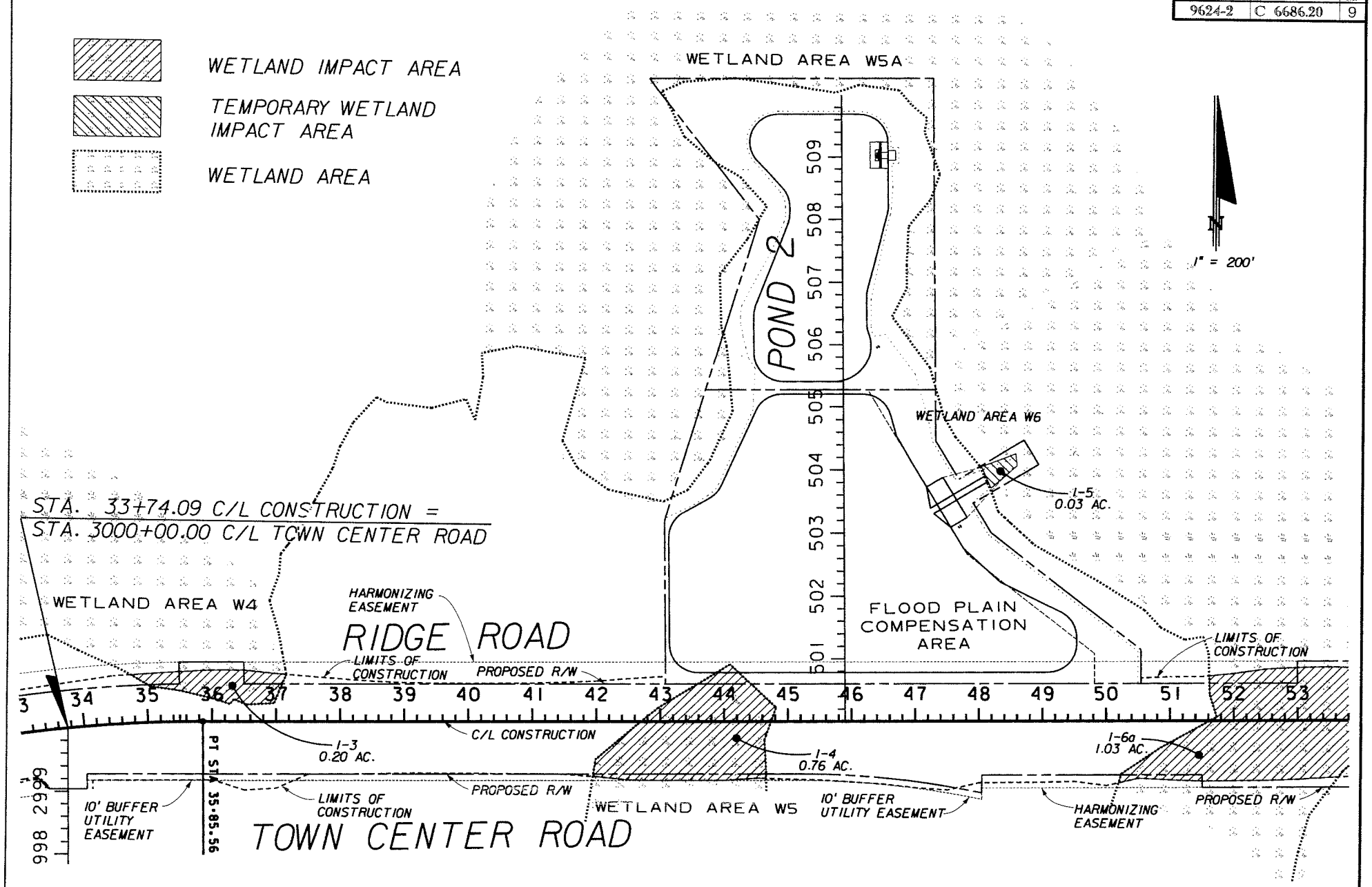

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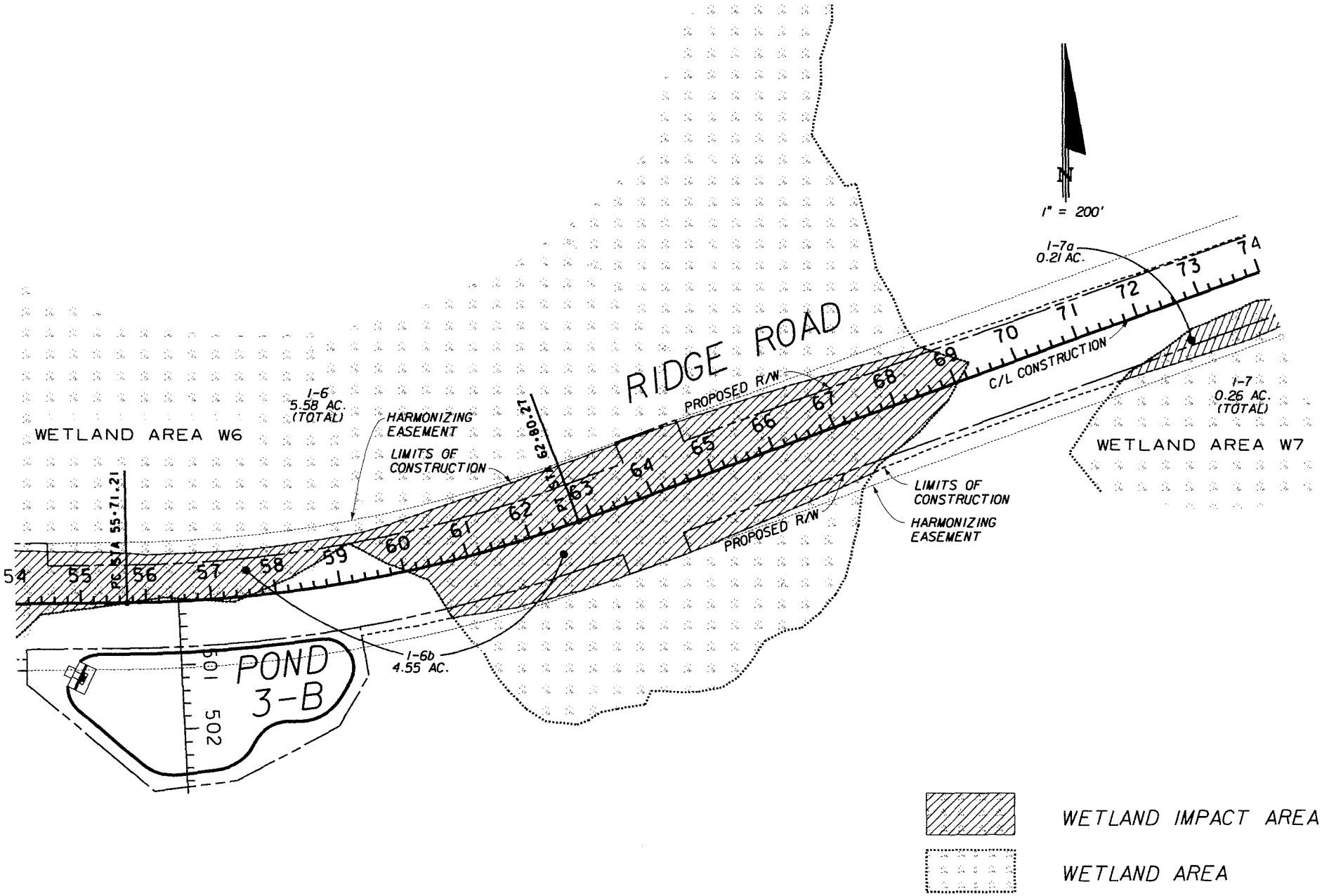

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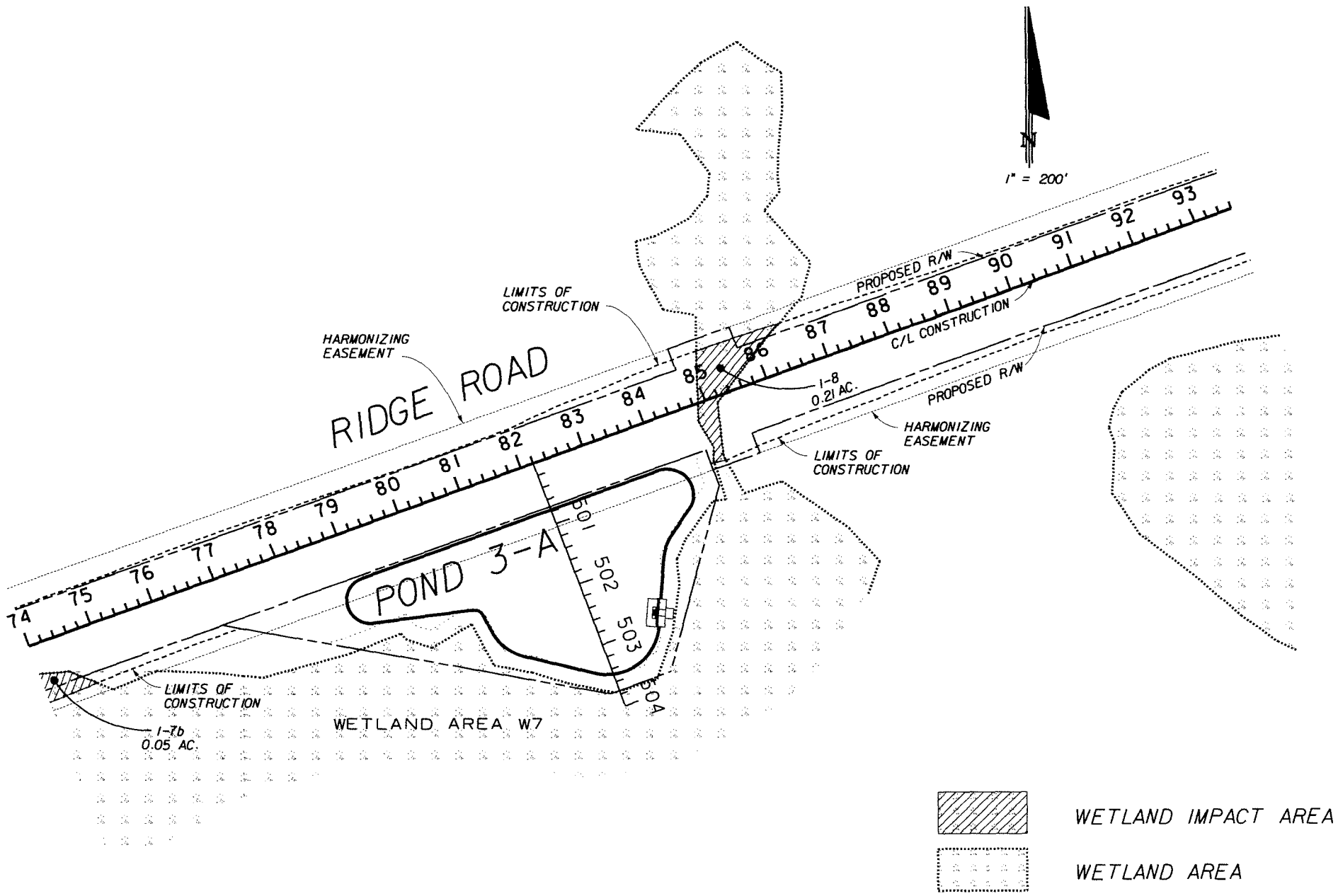

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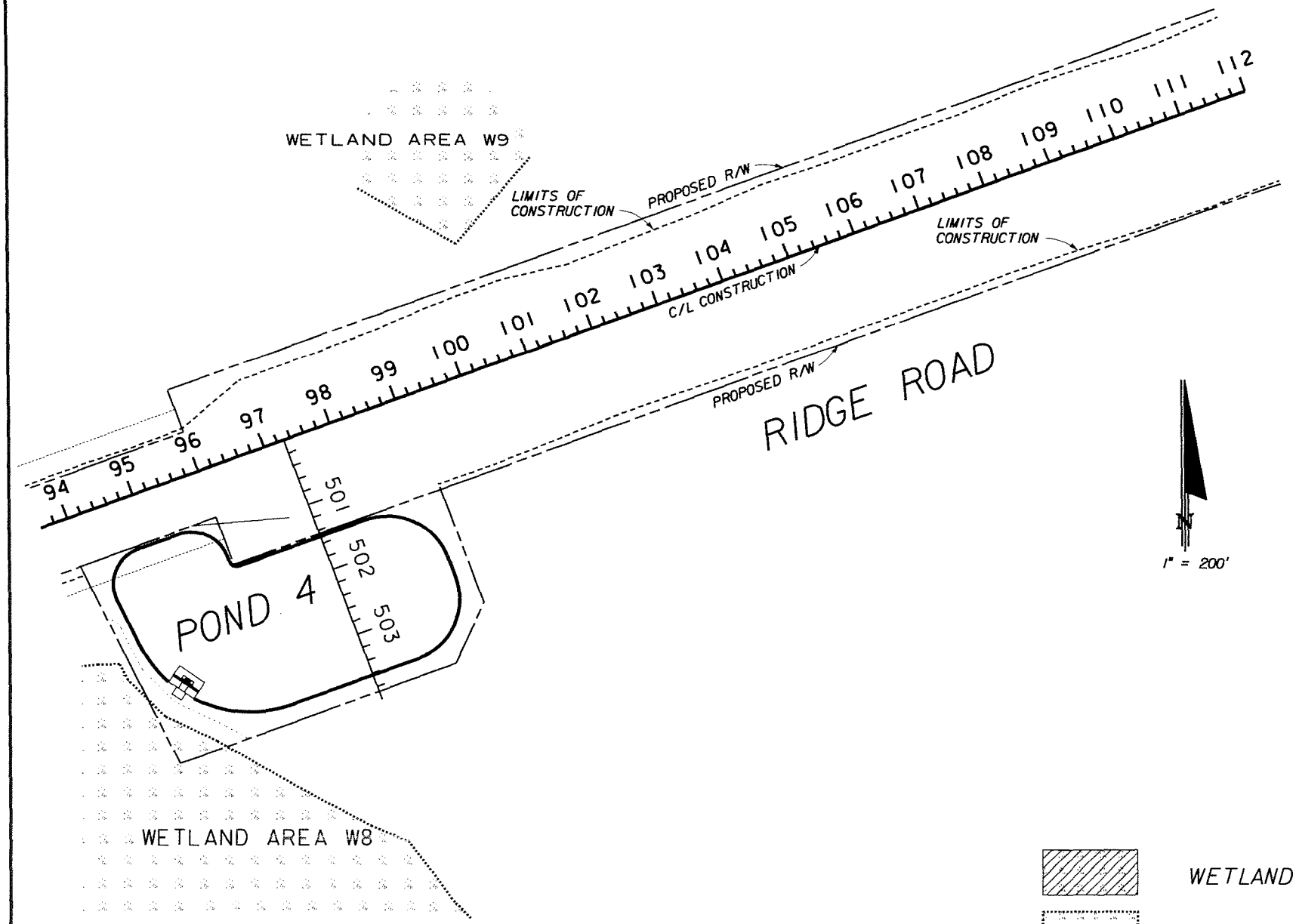

WETLAND IMPACT AREA

WETLAND AREA

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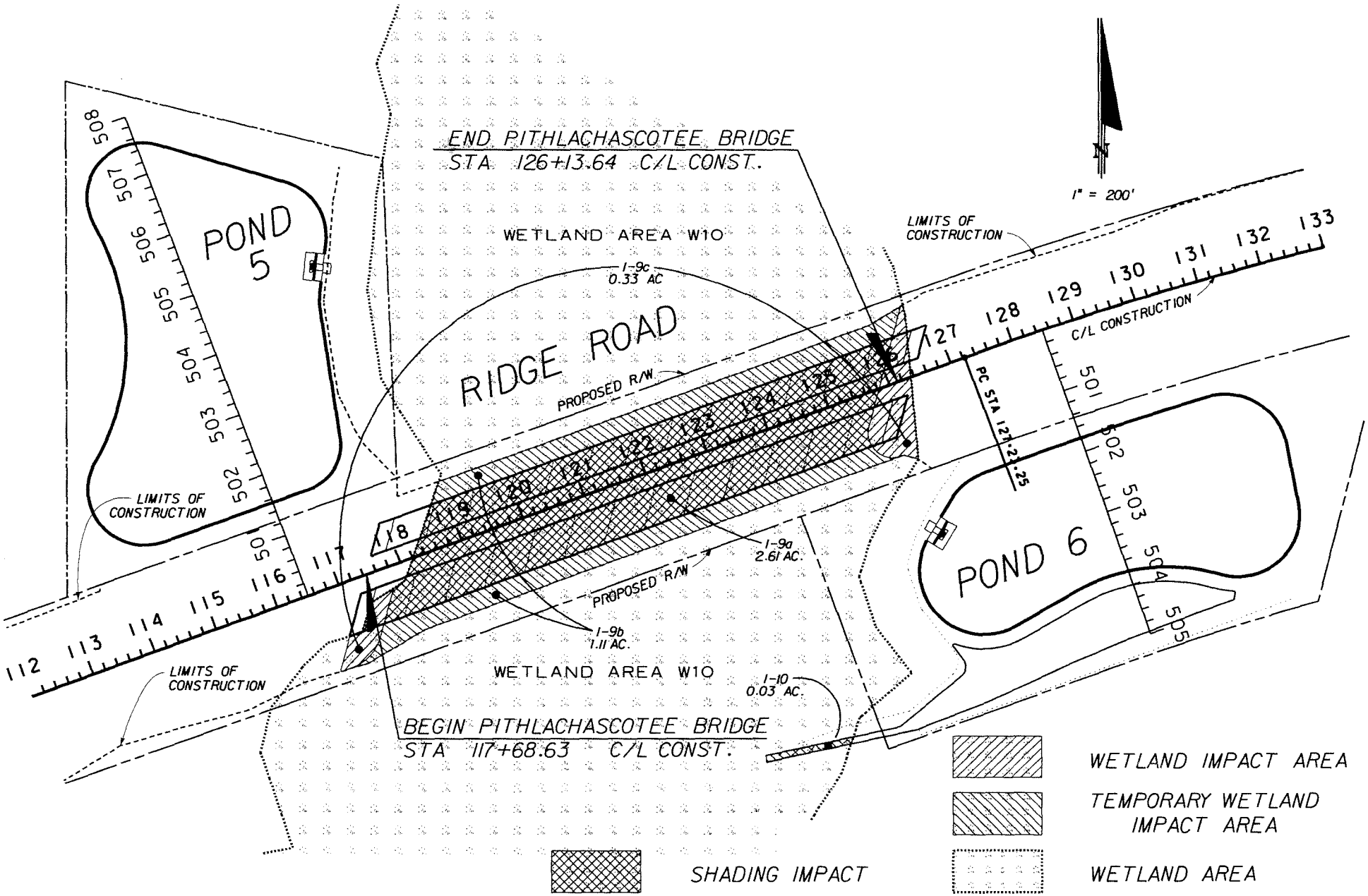

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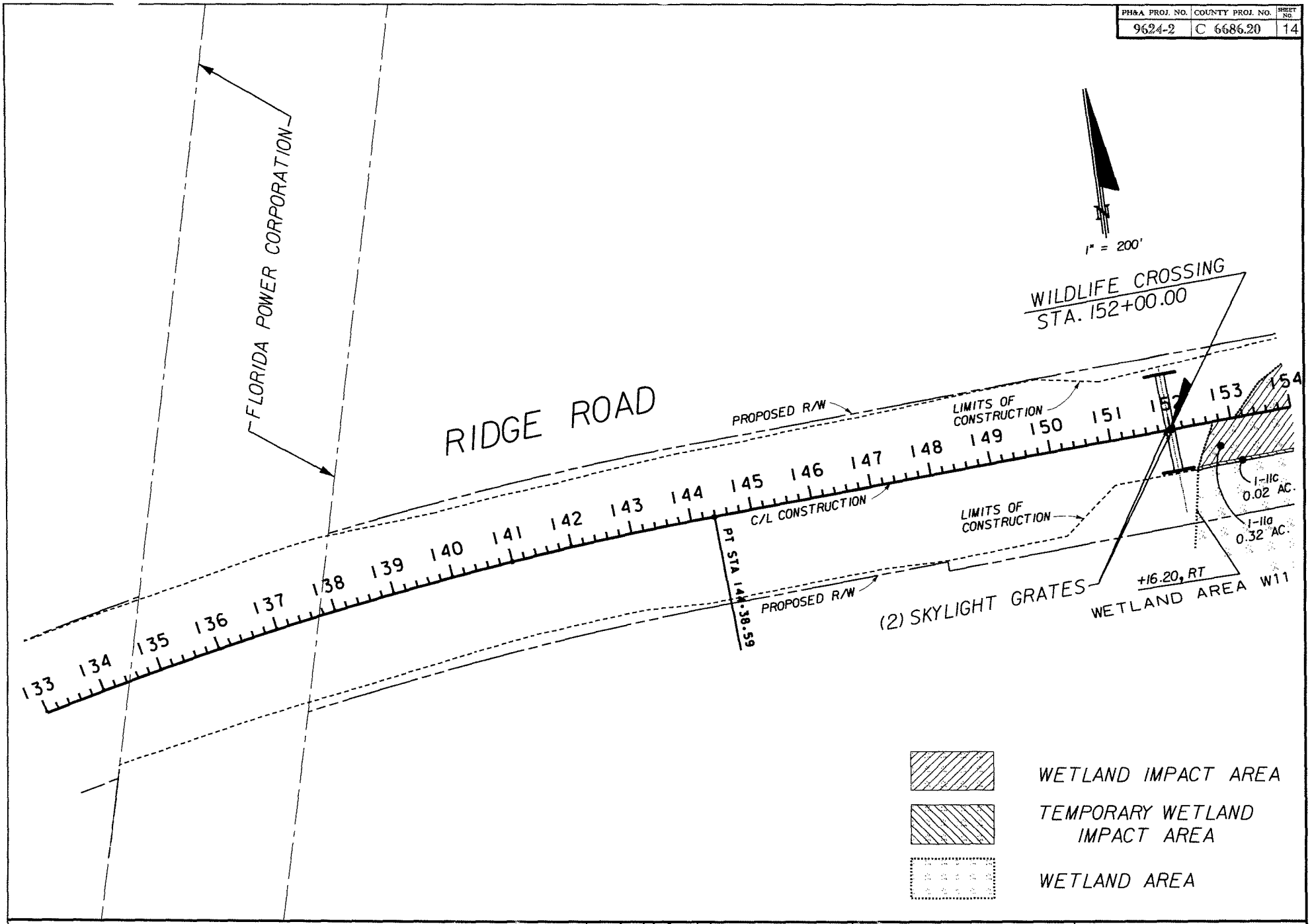

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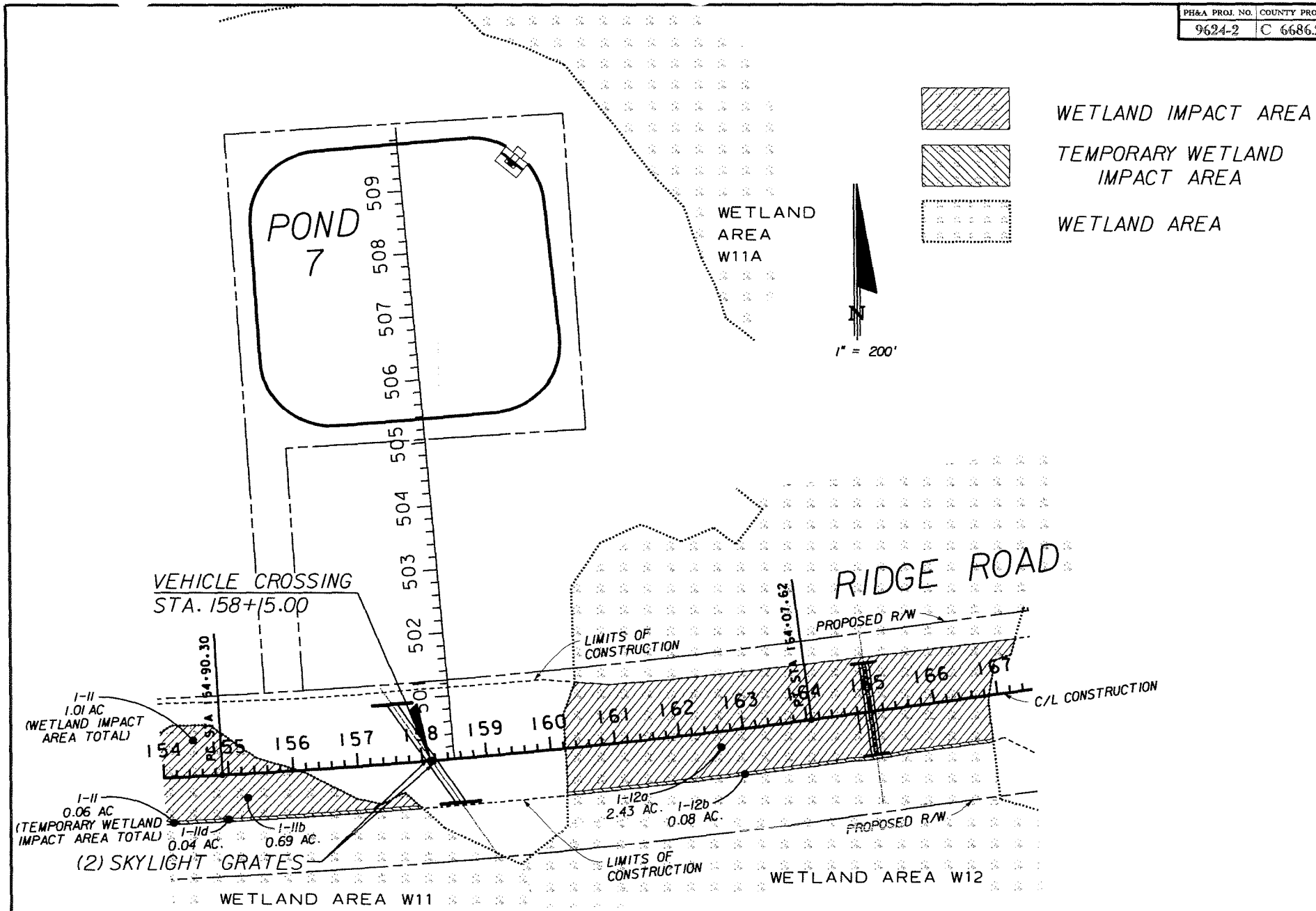

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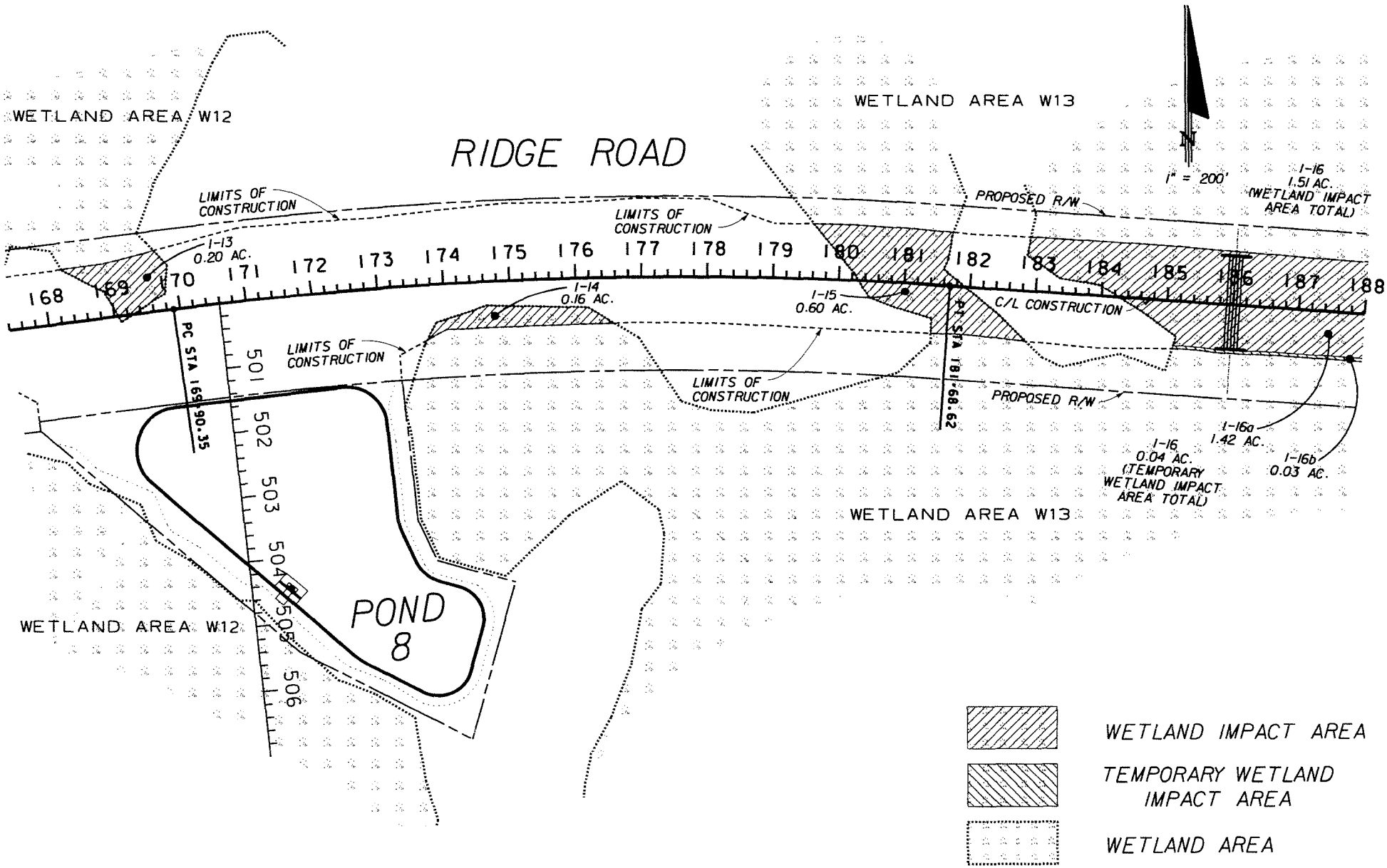

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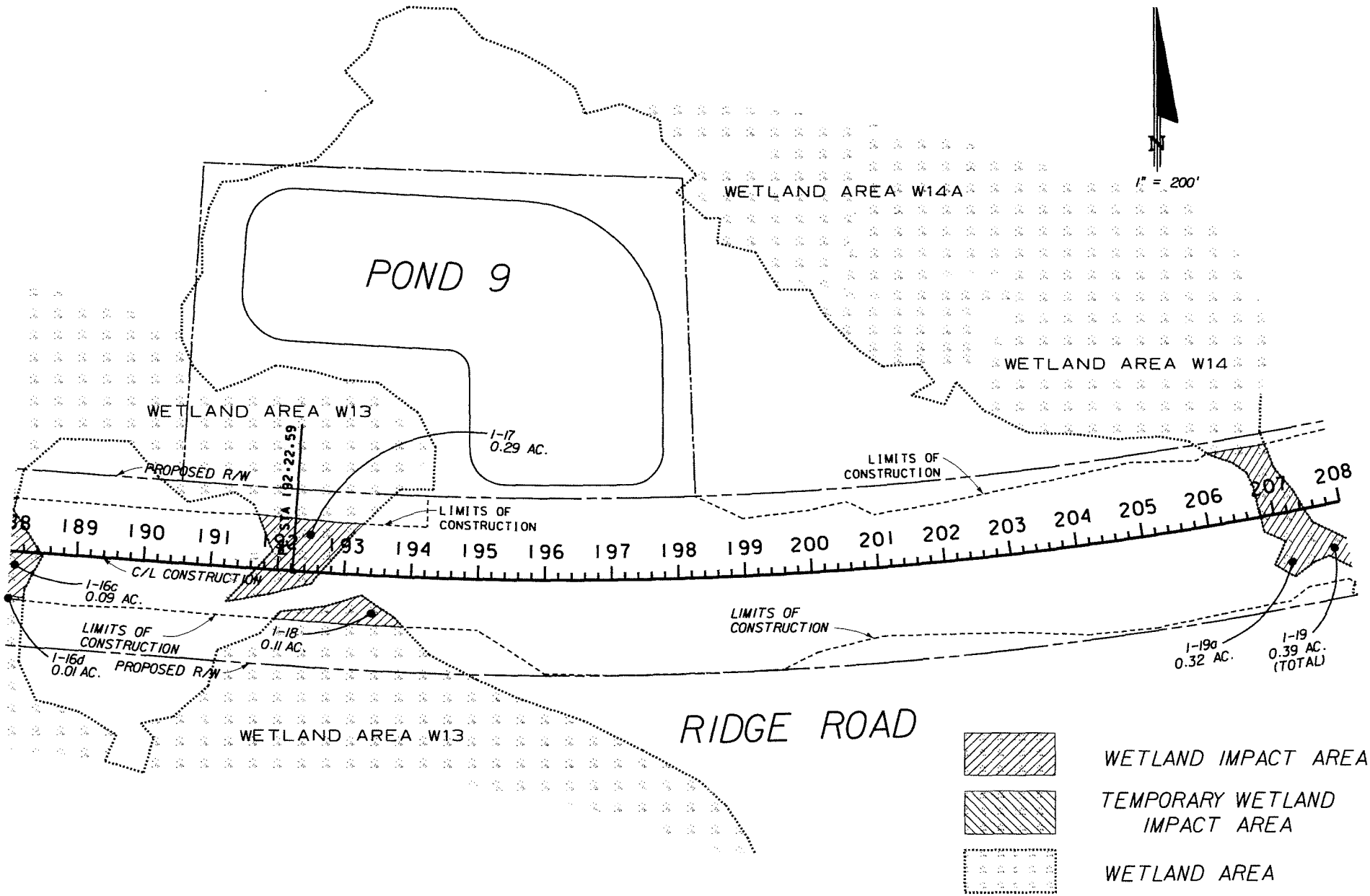

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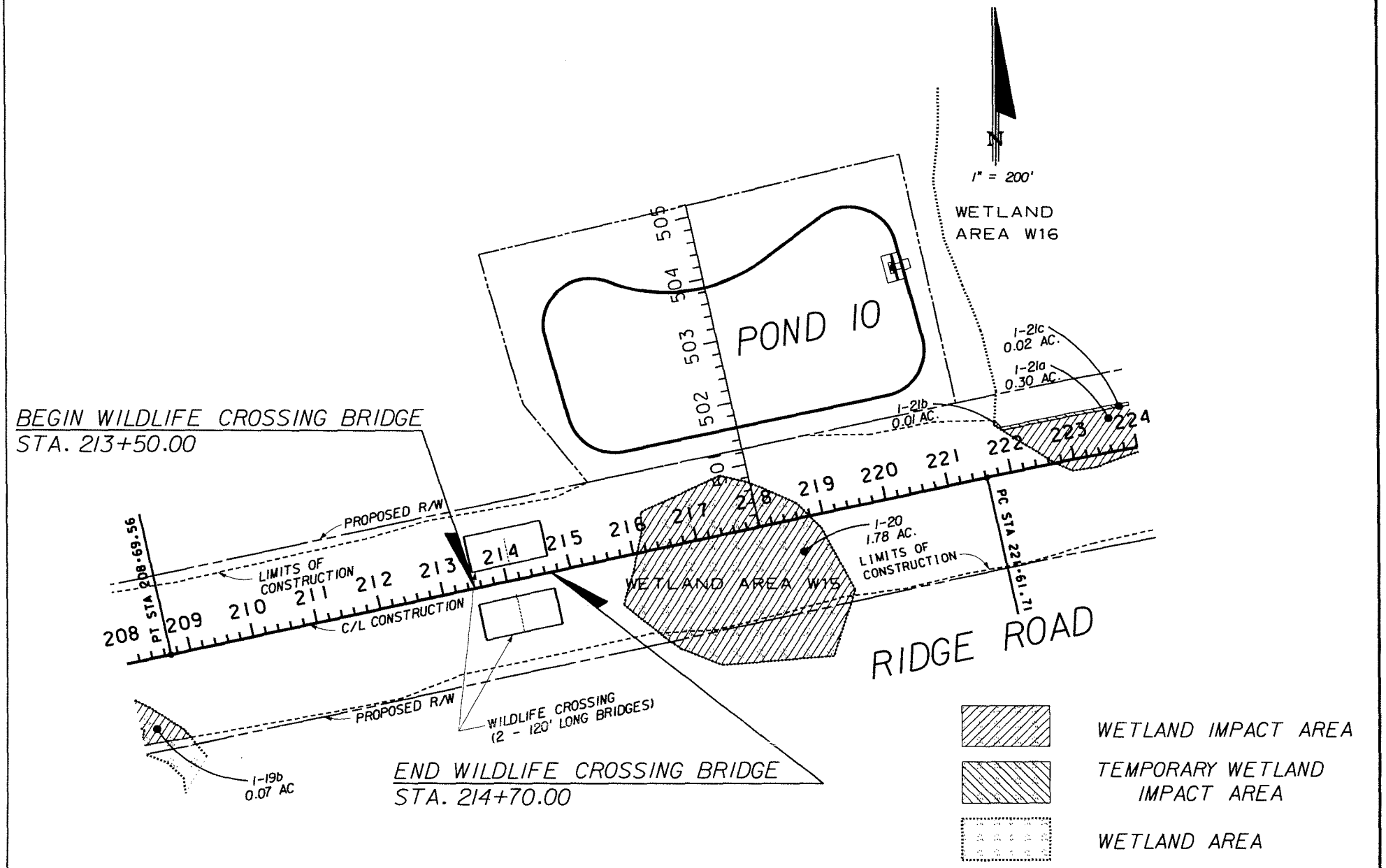

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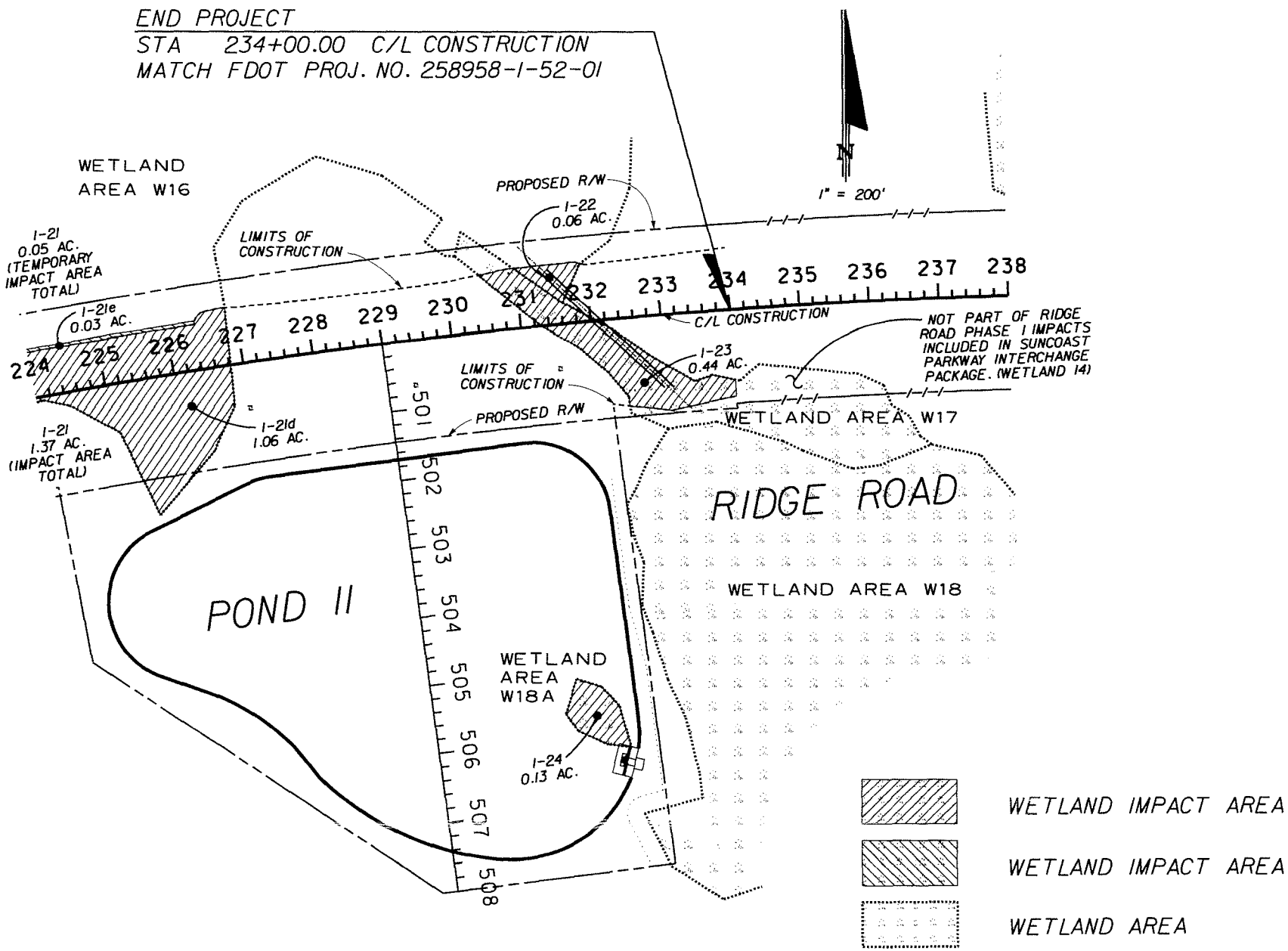

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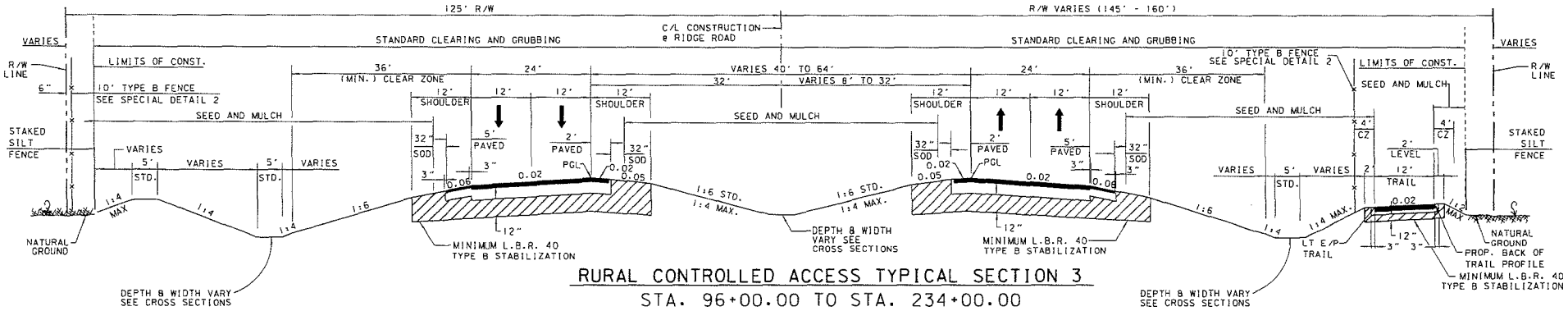


RURAL CONTROLLED ACCESS TYPICAL SECTION 3

STA. 96+00.00 TO STA. 234+00.00

NOTE: SEE TYPICAL SECTIONS (3) AND (4) FOR PARTIAL TYPICAL SECTIONS LT & RT

TRAFFIC DATA

CURRENT YEAR ESTIMATE - 2006 AADT - 0
OPENING YEAR ESTIMATE - 2008 AADT - 12,600
DESIGN YEAR ESTIMATE - 2030 AADT - 30,600

D-50% 24-HR. T-10%
DESIGN SPEED - 70 M.P.H.

NEW CONSTRUCTION

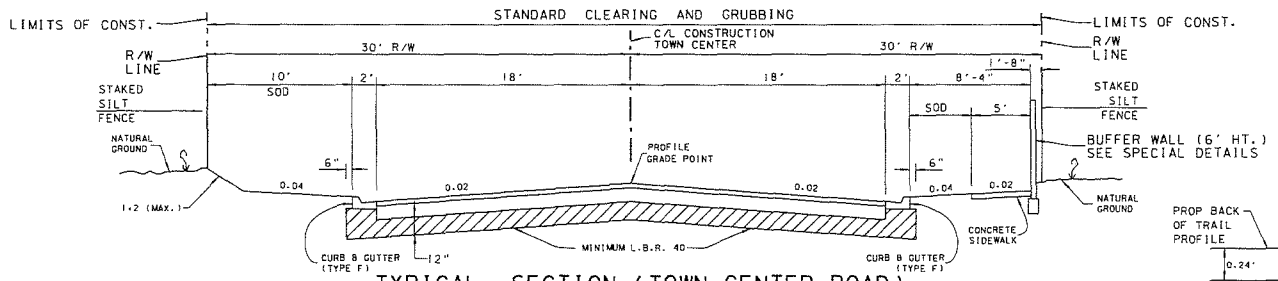
OPTIONAL BASE GROUP 9 WITH
TYPE "SP" STRUCTURAL COURSE (TRAFFIC C) (3")
AND FRICTION COURSE FC-5 (3/4)" (RUBBER)

OUTSIDE SHOULDER

OPTIONAL BASE GROUP 1 WITH
TYPE "SP" STRUCTURAL COURSE (TRAFFIC C) (1")
AND FRICTION COURSE FC-5 (3/4") (RUBBER)

TRAIL

OPTIONAL BASE GROUP 2 WITH
TYPE "SP" SURFACE COURSE (TRAFFIC A) (1)"

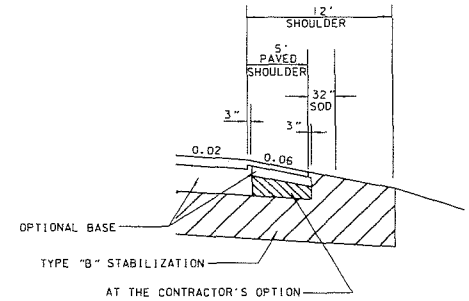


TYPICAL SECTION (TOWN CENTER ROAD)

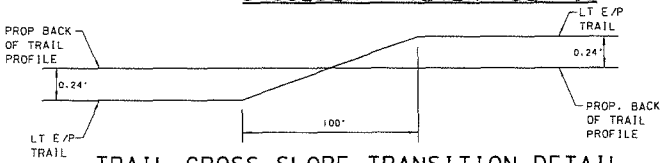
STA. 2998+00.00 TO STA. 2999+20.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE "SP" STRUCTURAL COURSE (2 1/2")
AND FRICTION COURSE FC-9.5 (RUBBER) (1")



SHOULDER PAVEMENT DETAIL



NOTE: REFER TO SPECIAL PROFILE FOR LIMITS

TRAIL CROSS SLOPE TRANSITION DETAIL

N.T.S.

REVISIONS														
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	

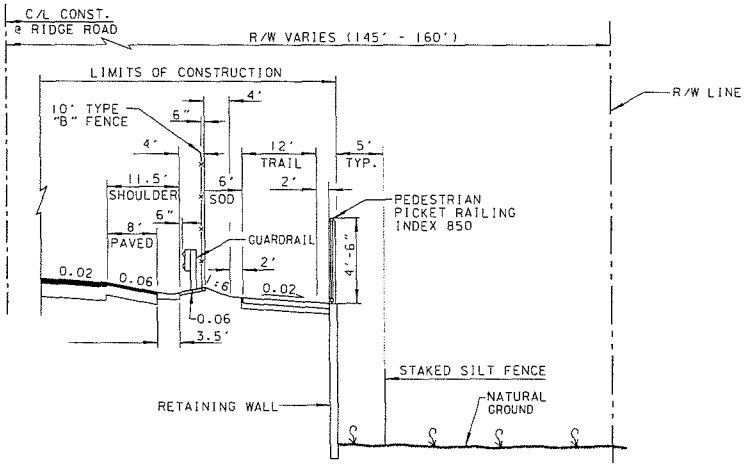
PITMAN-HARTENSTEIN & ASSOC. INC. ENGINEERS 6888 E. FOWLER AVENUE TAMPA FLORIDA 33617 PH. 44-4 THOMAS J. HARTENSTEIN P.E. NO. 19236

PASCO COUNTY

TYPICAL SECTIONS (2)

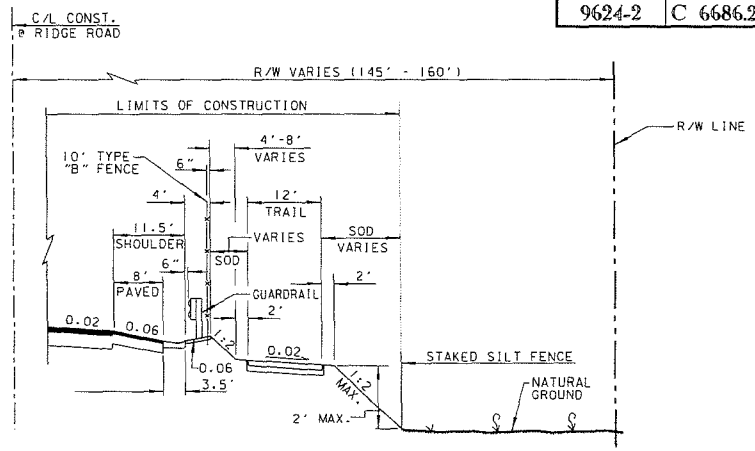
5/23/2011 3:42:53 PM Q:\9624-PH&A-1\Roadway\TYPSHD02.DGN

PH&A PROJ. NO.	COUNTY PROJ. NO.	SHEET NO.
9624-2	C 6686.20	21



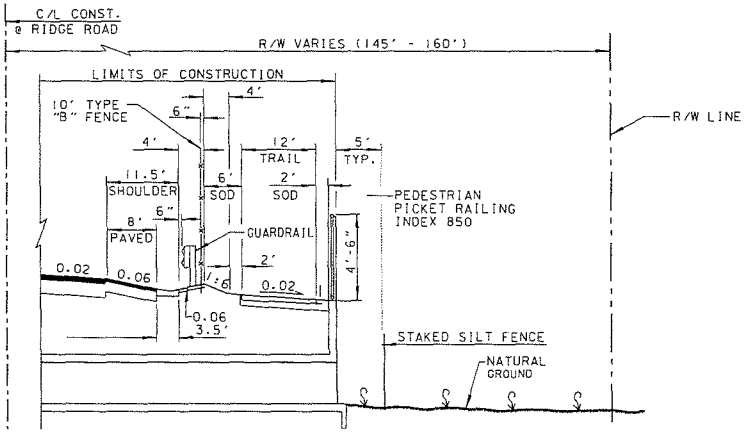
RURAL - PARTIAL TYPICAL SECTION (RT)

STA. 151+00.00 TO STA. 167+00.00



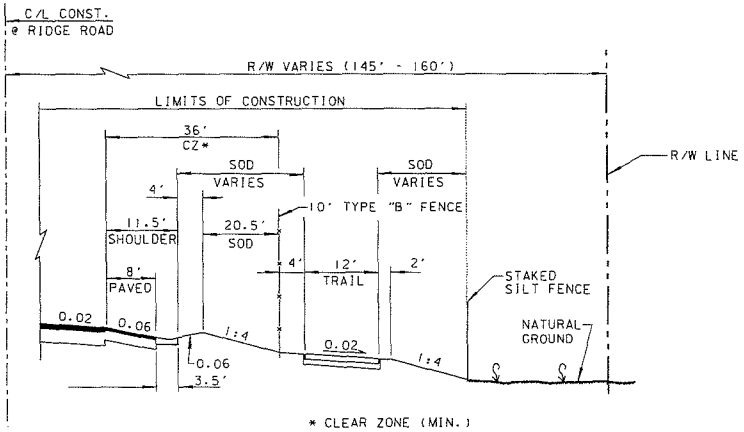
RURAL - PARTIAL TYPICAL SECTION (RT)

STA. 174+00.00 TO STA. 195+00.00



RURAL - PARTIAL TYPICAL SECTION (RT)

AT BOX CULVERTS



* CLEAR ZONE (MIN.)

RURAL - PARTIAL TYPICAL SECTION (RT)

STA. 201+00.00 TO STA. 209+00.00
STA. 222+00.00 TO STA. 234+00.00

NOTE:

1. SEE PLANS FOR LOCATIONS.

REVISIONS														
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

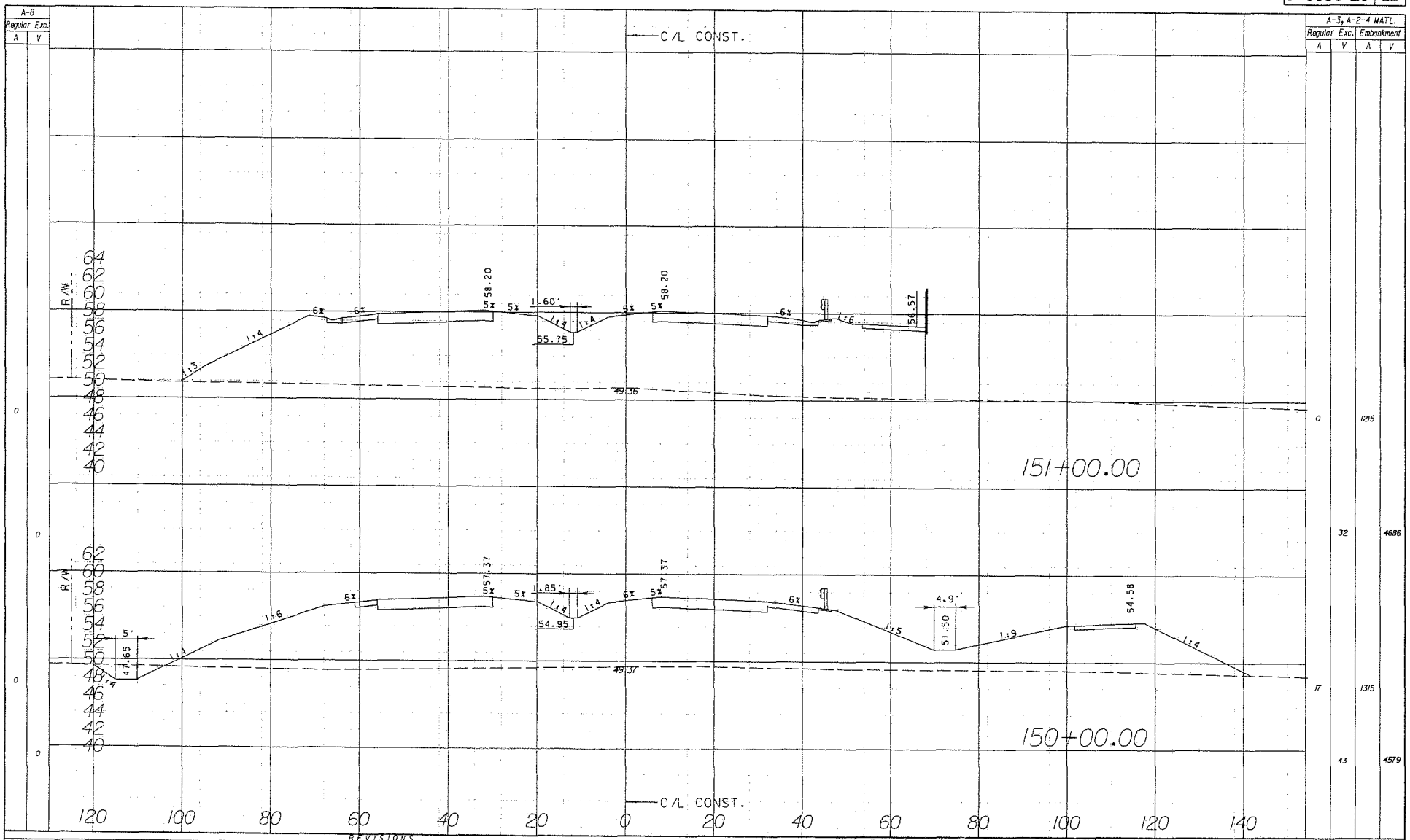
PITMAN-HARTER-FEIN & ASSOCIATES, INC. ENGINEERS
8888 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 4461
THOMAS J. MONTGOMERY P.E. NO. 39205

PASCO COUNTY

TYPICAL SECTIONS (3)

5/23/2011 3:33:41 PM U:\9624\Phase-1\Roadway\TYPSR003.DGN

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	22



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		1215	
0			32		4686
0		17		1315	
0			43		4579

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

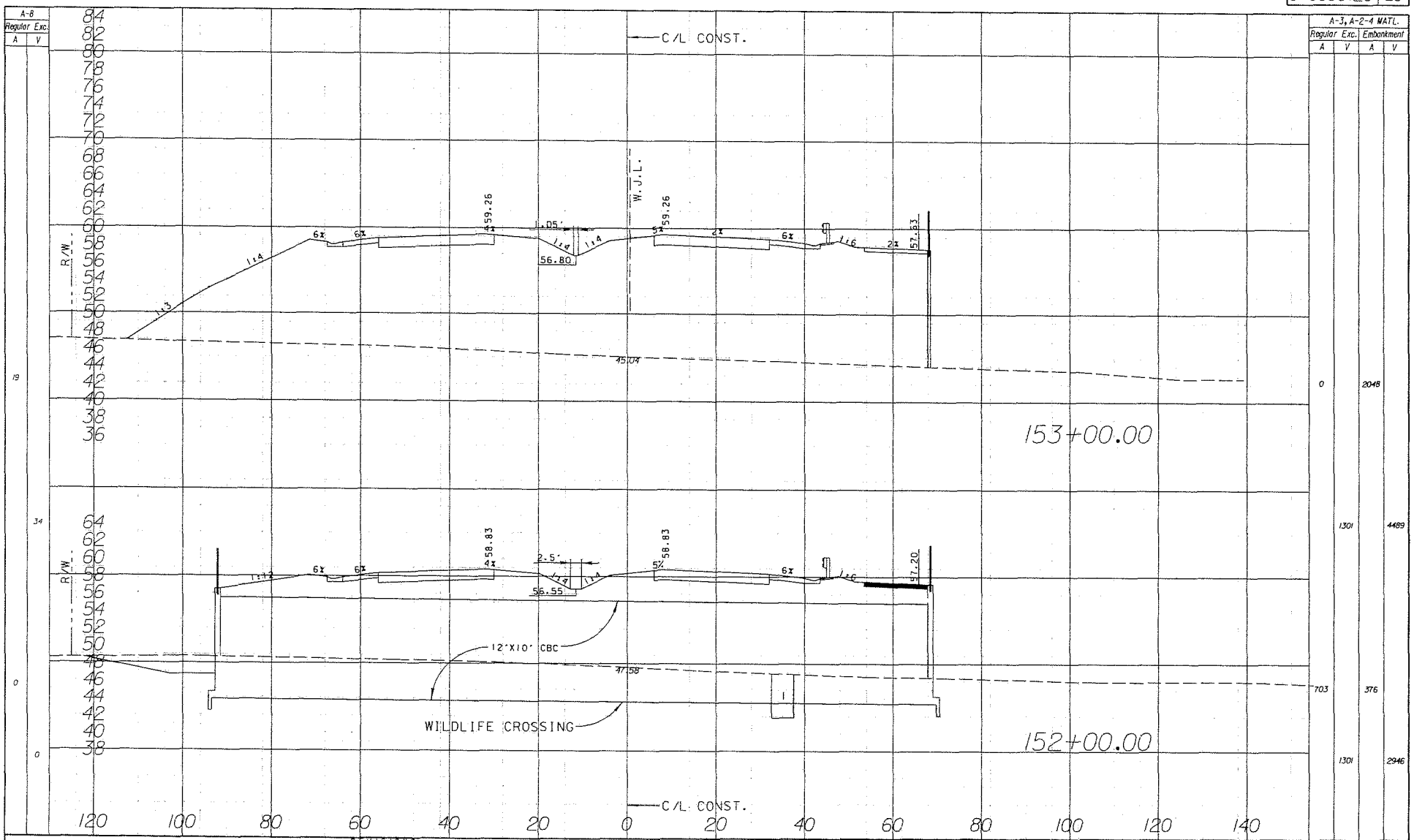
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS ARCHITECTS
6985 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4464
THOMAS J. MONTGOMERY P.E. NO. 35008

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

5/20/2011 11:33:12 AM Q:\9624\Phase-1\Roadway\9624ROZ.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	23



REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

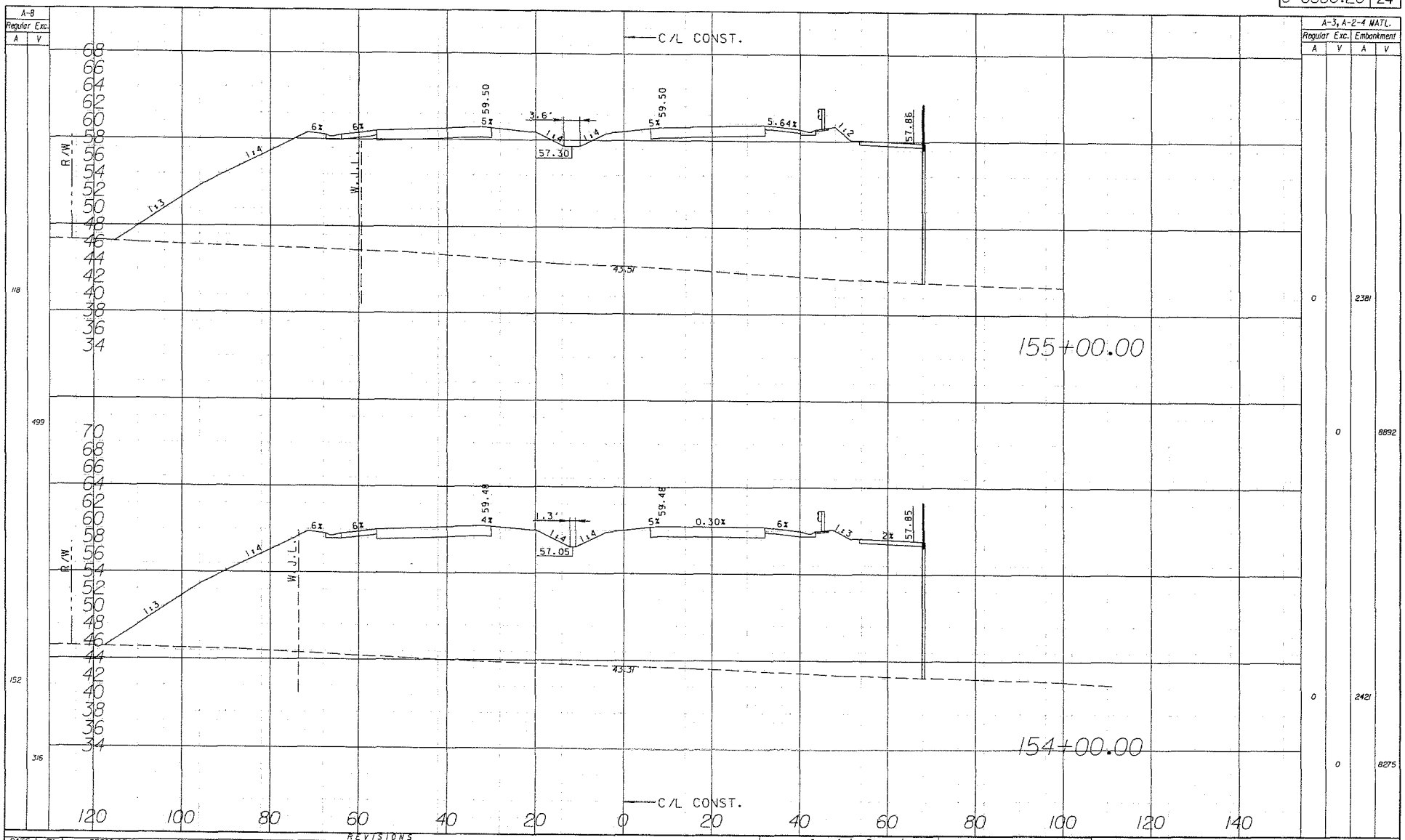
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
6555 E. FOWLER AVENUE TAMPA FLORIDA 33617 CA# 4464
THOMAS J. MONTGOMERY P.E. NO. 39009

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

csmith 5/20/2011 11:33:33 AM U:\0624-Pnbs-Ridgeway\rdx3780z.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	24



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
118		0		2381	
	499		0		8892
152		0		2421	
	316		0		8275

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
8889 E. FOWLER AVENUE TAMPA FLORIDA 33617 CA# 4841
THOMAS L. MONTGOMERY P.E. NO. 38008

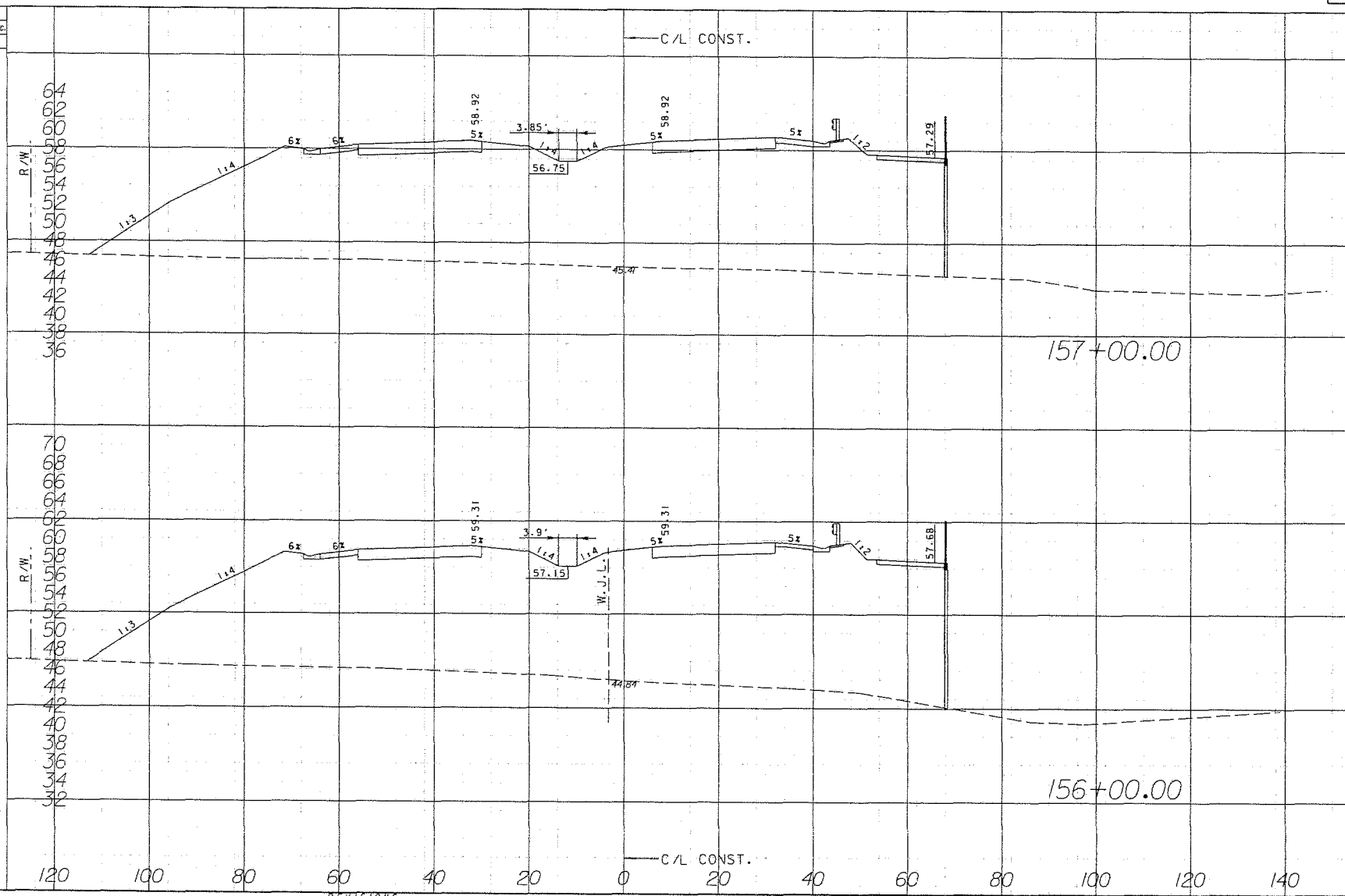
PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

5/20/2011 11:33:38 AM Q:\6624\Plans-Roadway\Rdx7802.pdg

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	25

A-8 Regular Exc. A	A-8 Regular Exc. V		A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
19		157+00.00	0		1991	
	35			0		7652
0		156+00.00	0		2141	
	218			0		8374



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

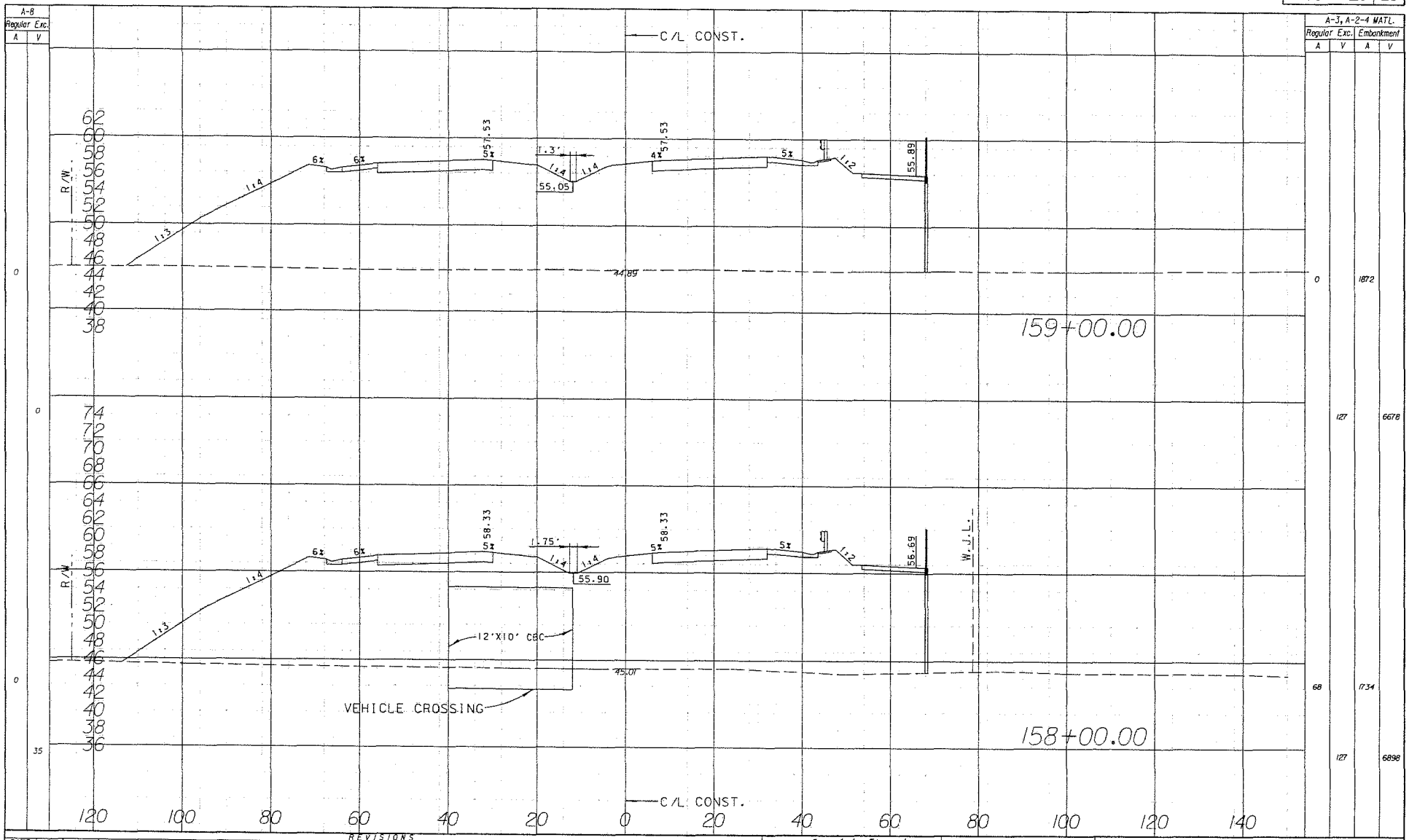
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
6885 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 985-1404
THOMAS J. MONTGOMERY P.E. NO. 39026

csmith 5/20/2011 11:33:41 AM U:\9524\Phase-1\Roadway\Ridge002.dgn

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	26



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		1872	
	0		127		6678
0		68		1734	
	35		127		6898

REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

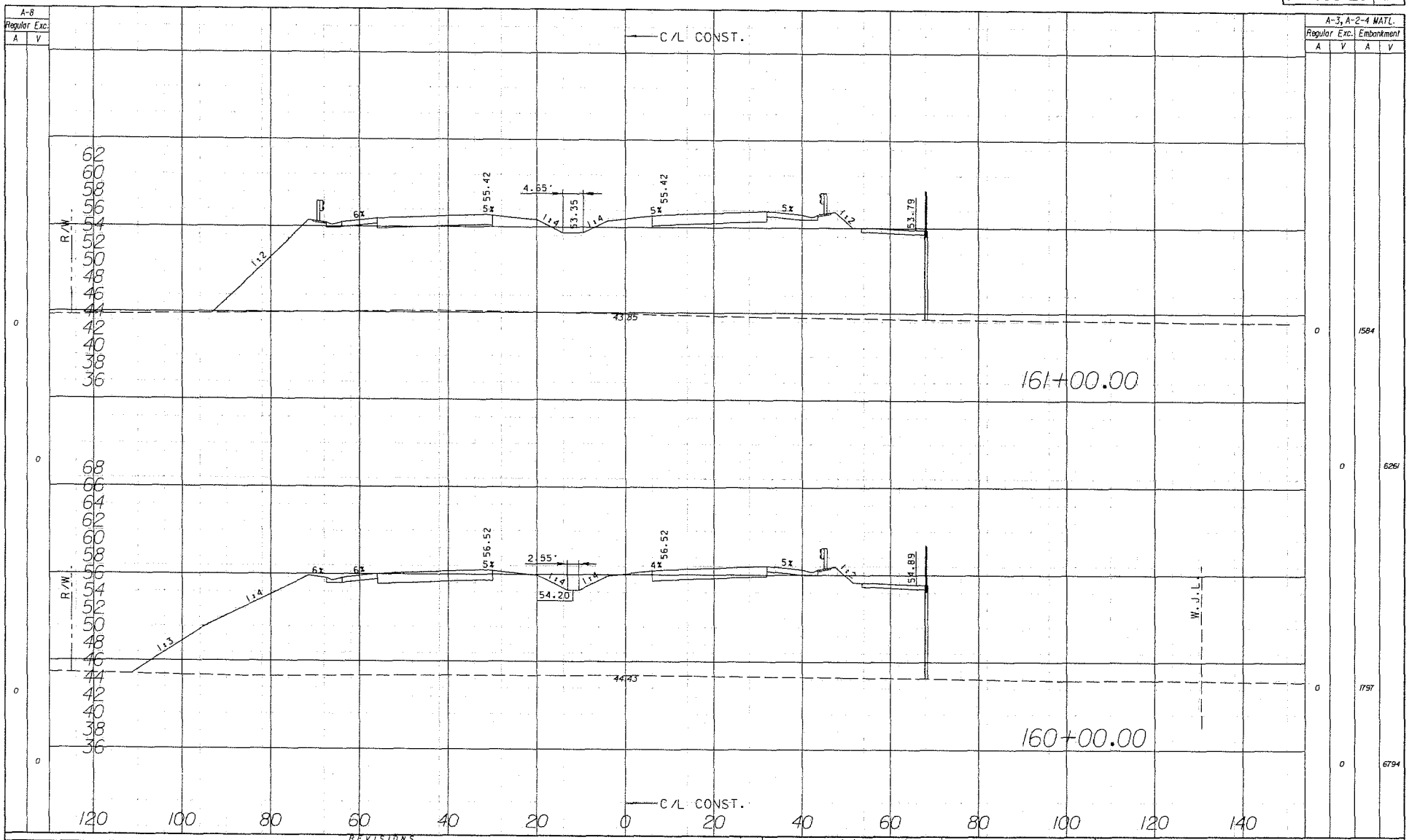
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6809 E. FOWLER AVENUE TAMPA FLORIDA 33617 CA# 4164
THOMAS J. MONTGOMERY P.E. NO. 29008
csmith

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:33:53 AM U:\9624\Phase-1\Roadway\rdx17802.pld

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	27



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

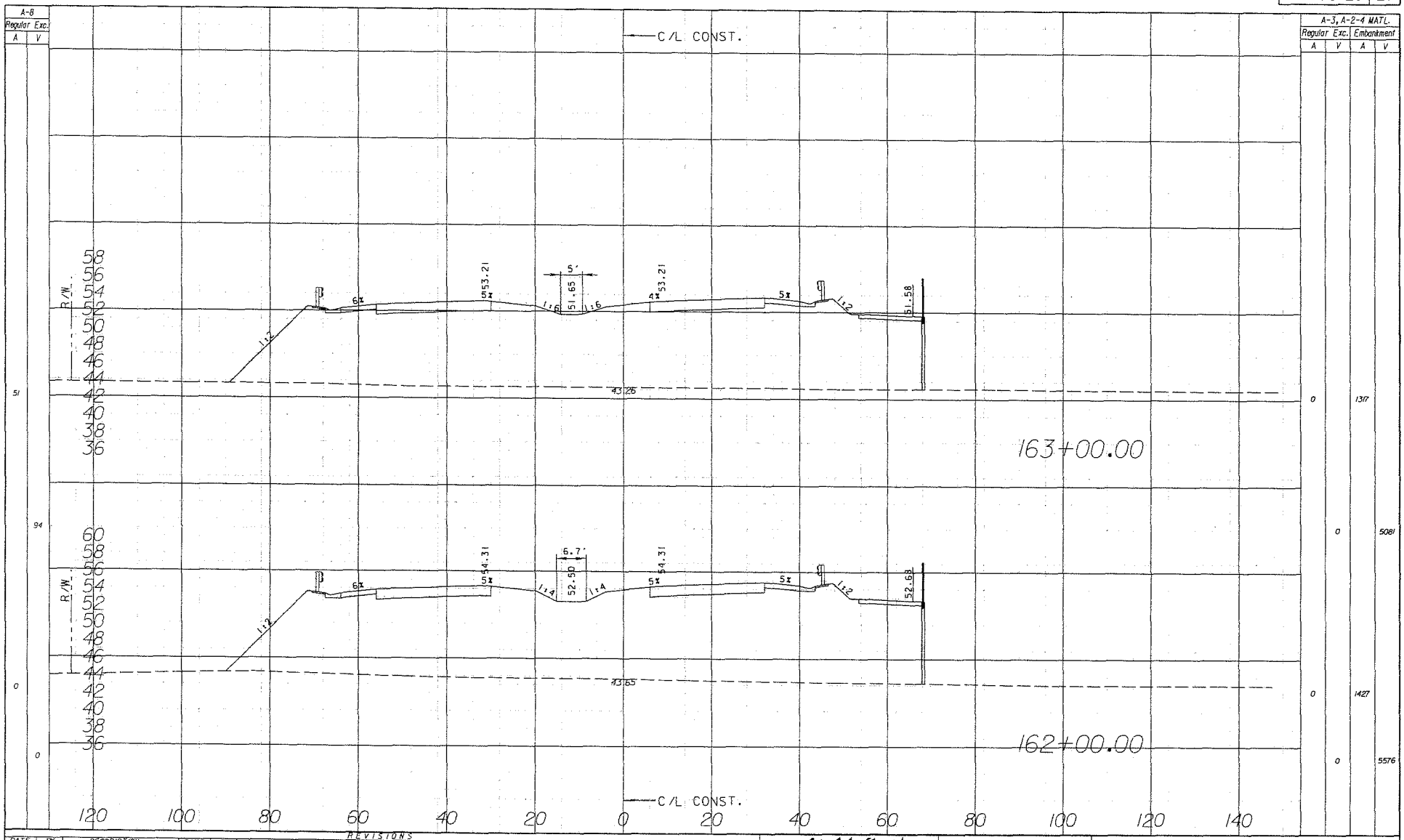
PITMAN HARTENSTEIN & ASSOCIATES, INC.
ENGINEERS
6805 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 985-1861
THOMAS J. MONTGOMERY P.E. NO. 39208

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:33:59 AM U:\9624\Phase-1\Roadway\Cross\002.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	28



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
51		0		1317	
	94		0		5081
0		0		1427	
	0		0		5576

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

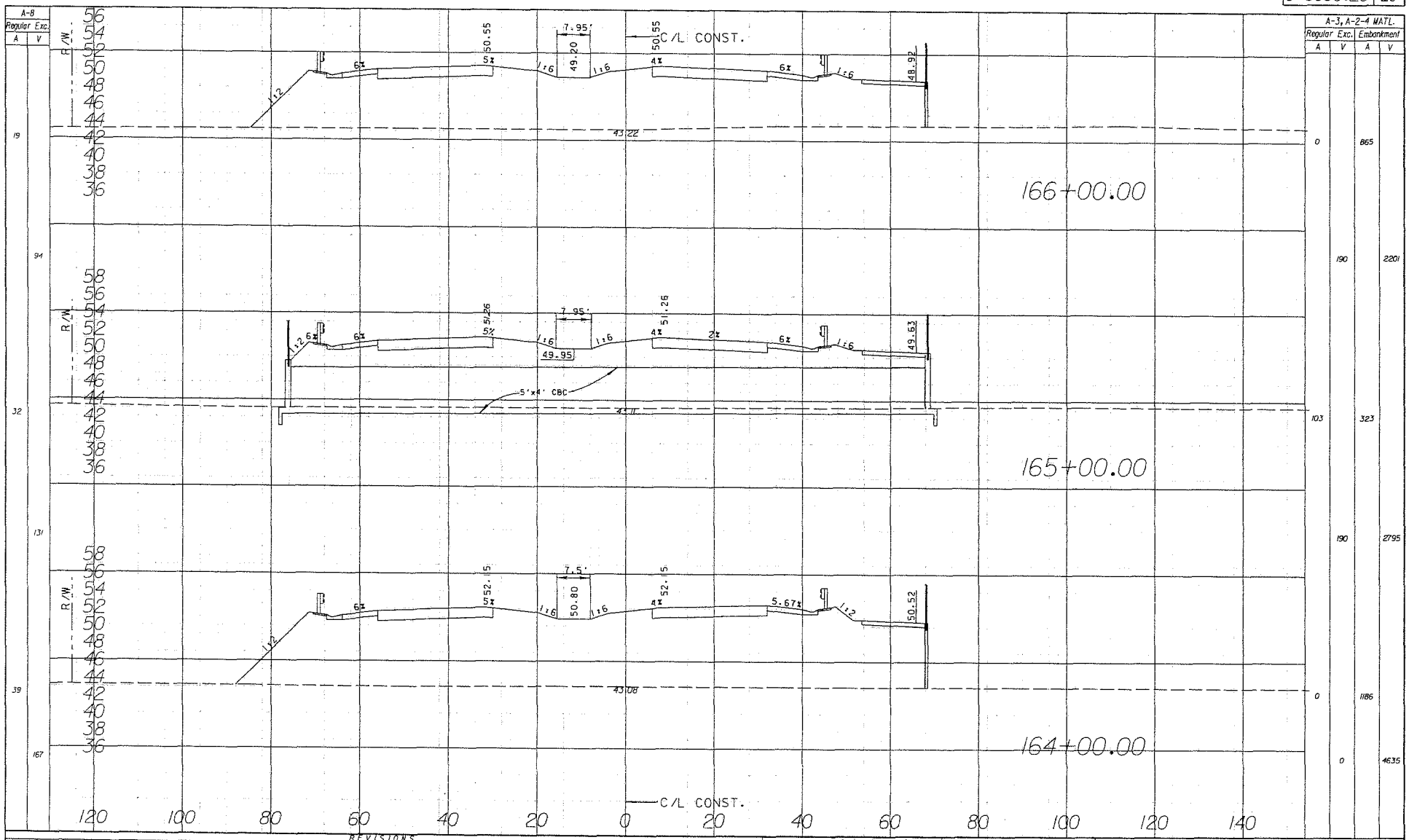
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
6882 E. FOWLER AVENUE, TAMPA FLORIDA, 33617 EB# 4164
THOMAS J. HORTSCHEMEIER P.E. NO. 39008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:34:08 AM U:\9624\Phase-I\Roadway\Cross02.plg

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	29



A-3, A-2-4 MATL.			
Regular Exc.		Embankment	
A	V	A	V
0		865	
	190		2201
103		323	
	190		2795
0		1186	
	0		4635

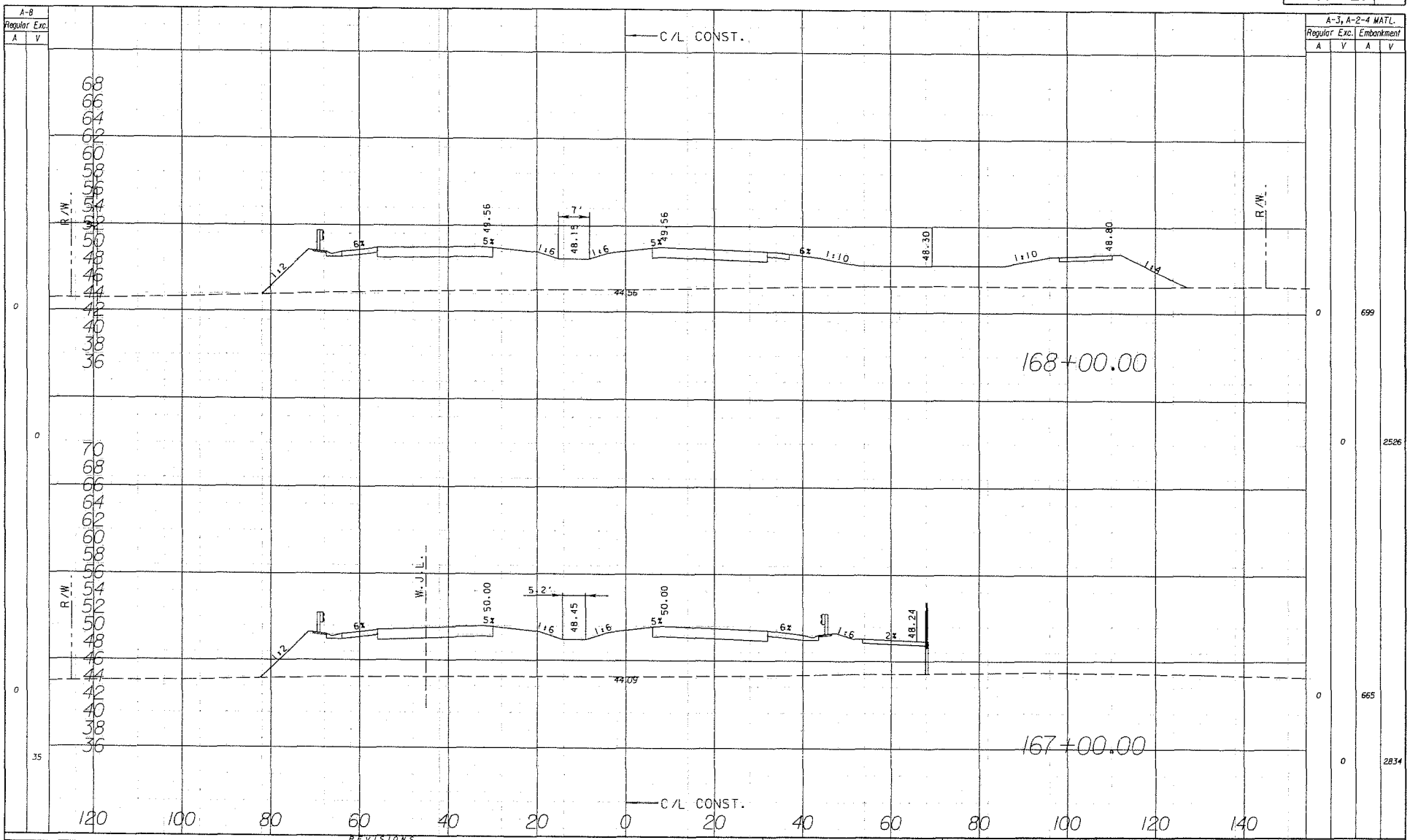
REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

PITMAN HARTCYSTER & ASSOCIATES
ENGINEERS
6665 E. FOWLER AVENUE, TAMPA FLORIDA, 33617 CA# 4464
THOMAS J. MONTGOMERY P.E. NO. 39008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	30



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		699	
	0		0		2526
0		0		665	
	35		0		2834

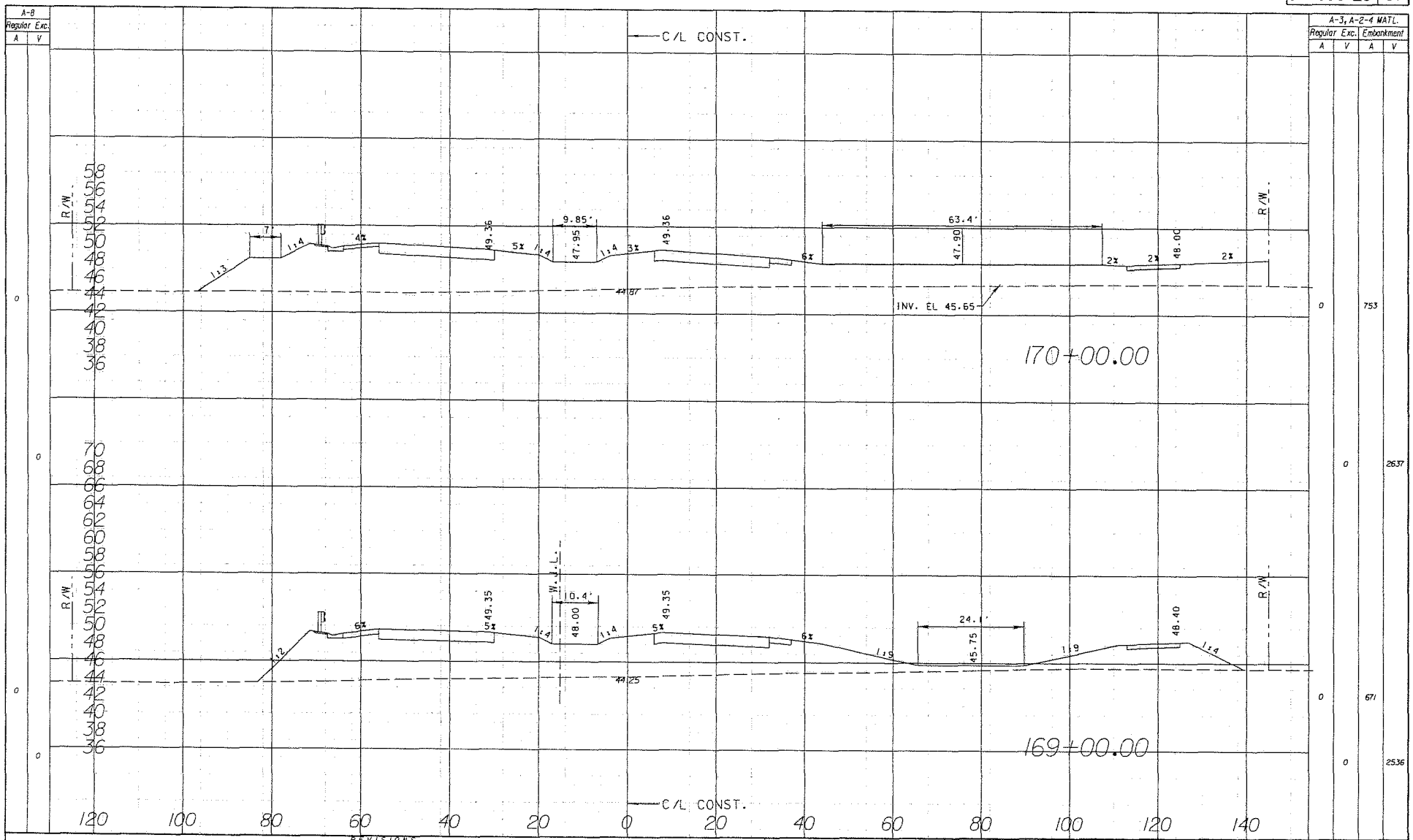
REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

PITMAN HARTSTECH & ASSOC., INC.
ENGINEERS
8005 E. FOWLER AVENUE TAMPA FLORIDA 33617 CBA 4464
THOMAS J. MONTGOMERY P.E. NO. 39003

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	31



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		753	
	0		0		2637
0		0		671	
	0		0		2536

REVISIONS															
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY		

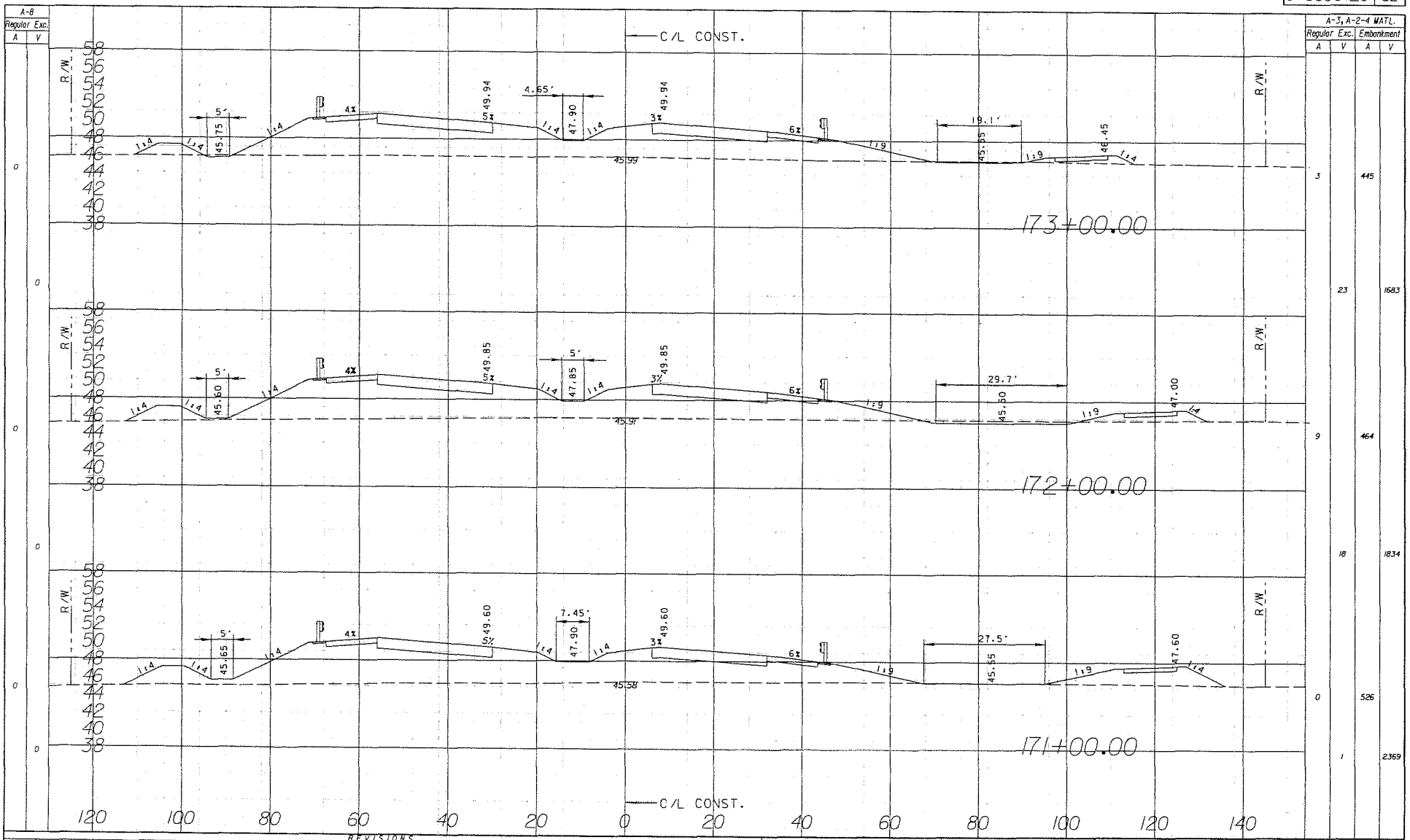
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6985 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4464
THOMAS J. MONTGOMERY P.E. NO. 35608

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

5/20/2011 11:34:29 AM

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	32



A-8 Regular Exc. A	A-8 Regular Exc. V
0	
	0
0	
	0
0	
	0

A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
3		445	
	23		1683
9		464	
	18		1834
0		526	
	1		2369

REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

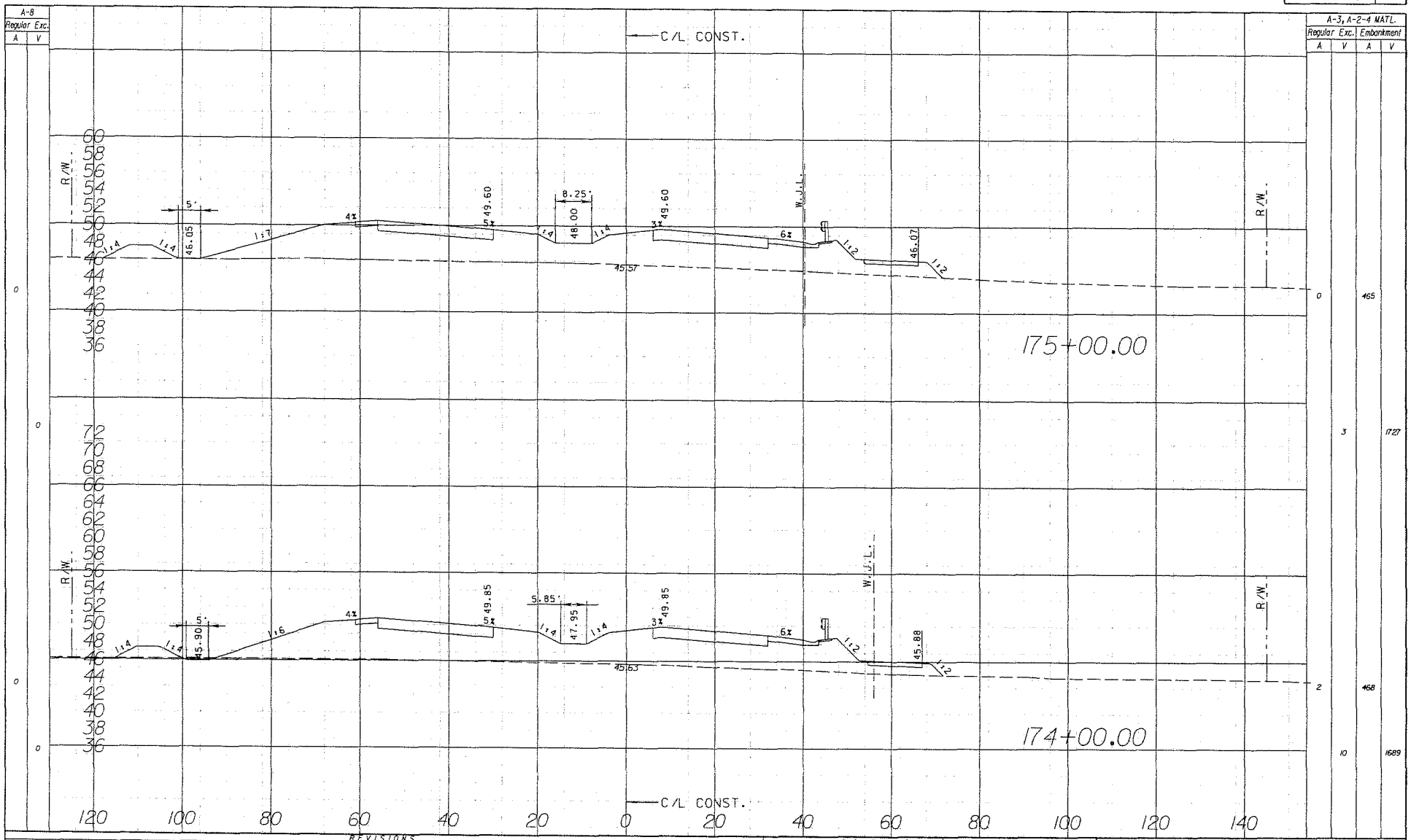
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6805 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4464
THOMAS J. MONTGOMERY P.E. NO. 39008
SMITH

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

5/20/2011 11:34:31 AM U:\0624-Phase-1\Roadway\Data\002.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	33



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

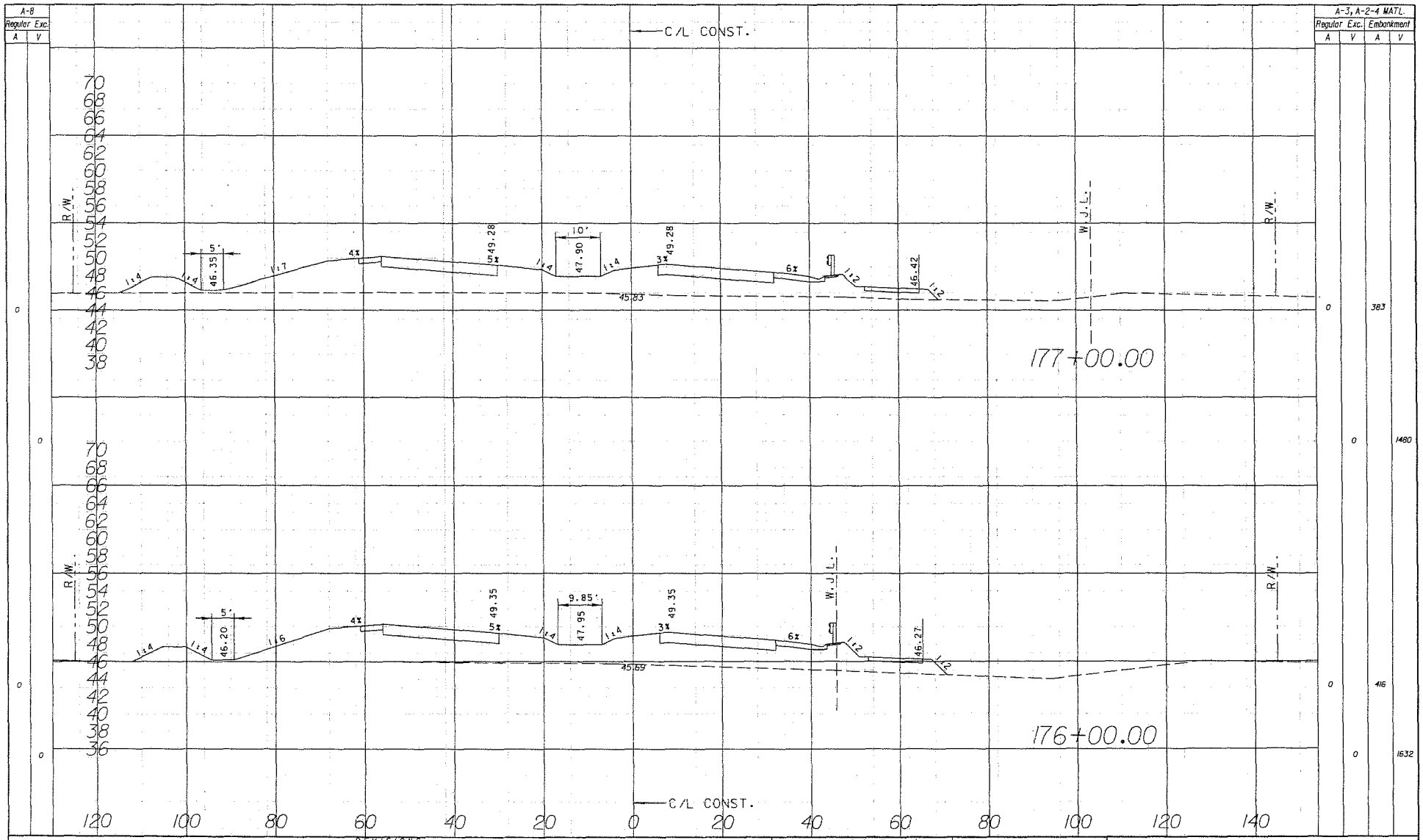
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
6965 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 4641
THOMAS J. MONTGOMERY P.E. NO. 29038

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:34:43 AM

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	34



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

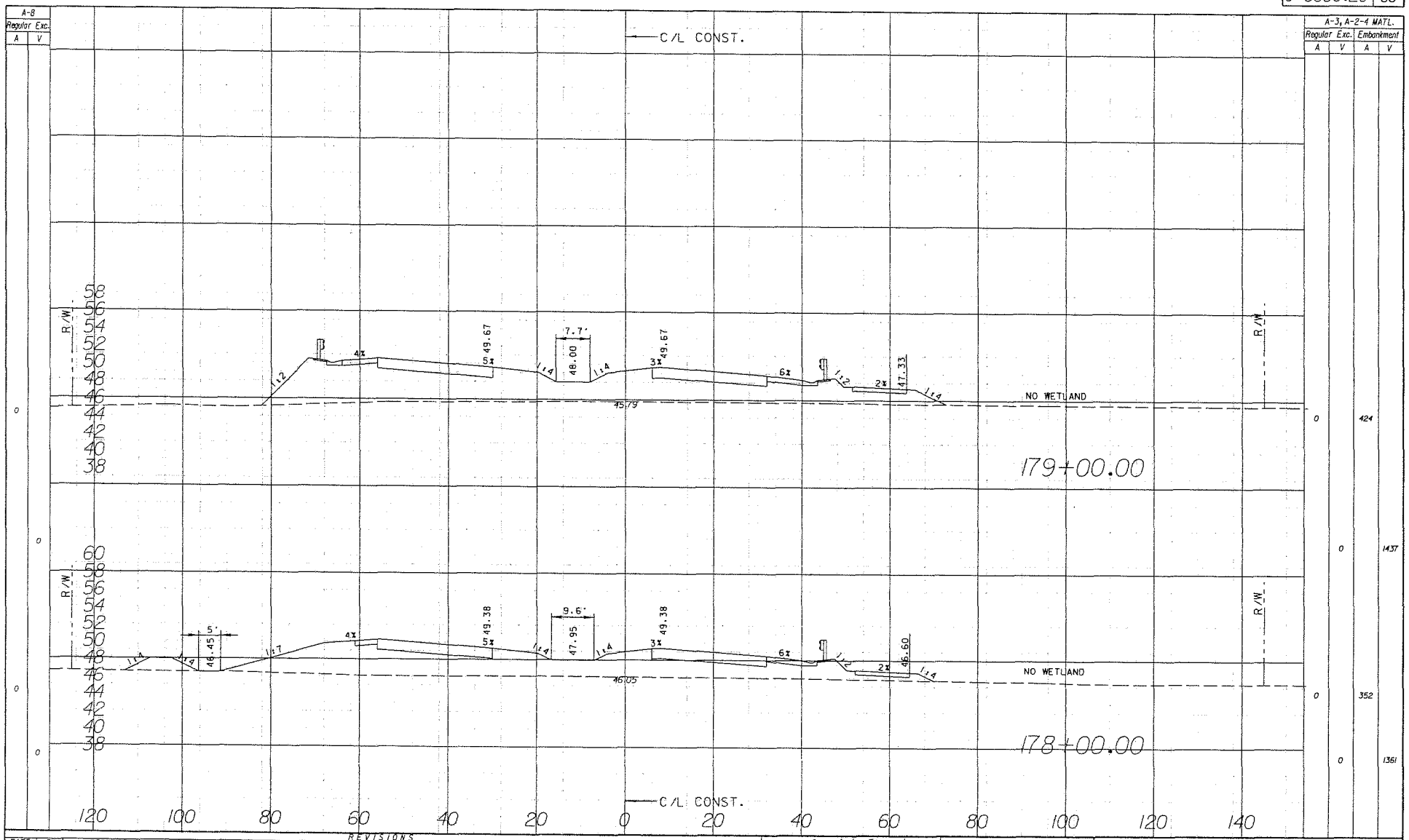
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
8885 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 4-4-4
THOMAS J. MONTGOMERY P.E. NO. 39008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:34:53 AM U:\0624\Phase-1\Roadway\Ridge02.pln

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	35



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

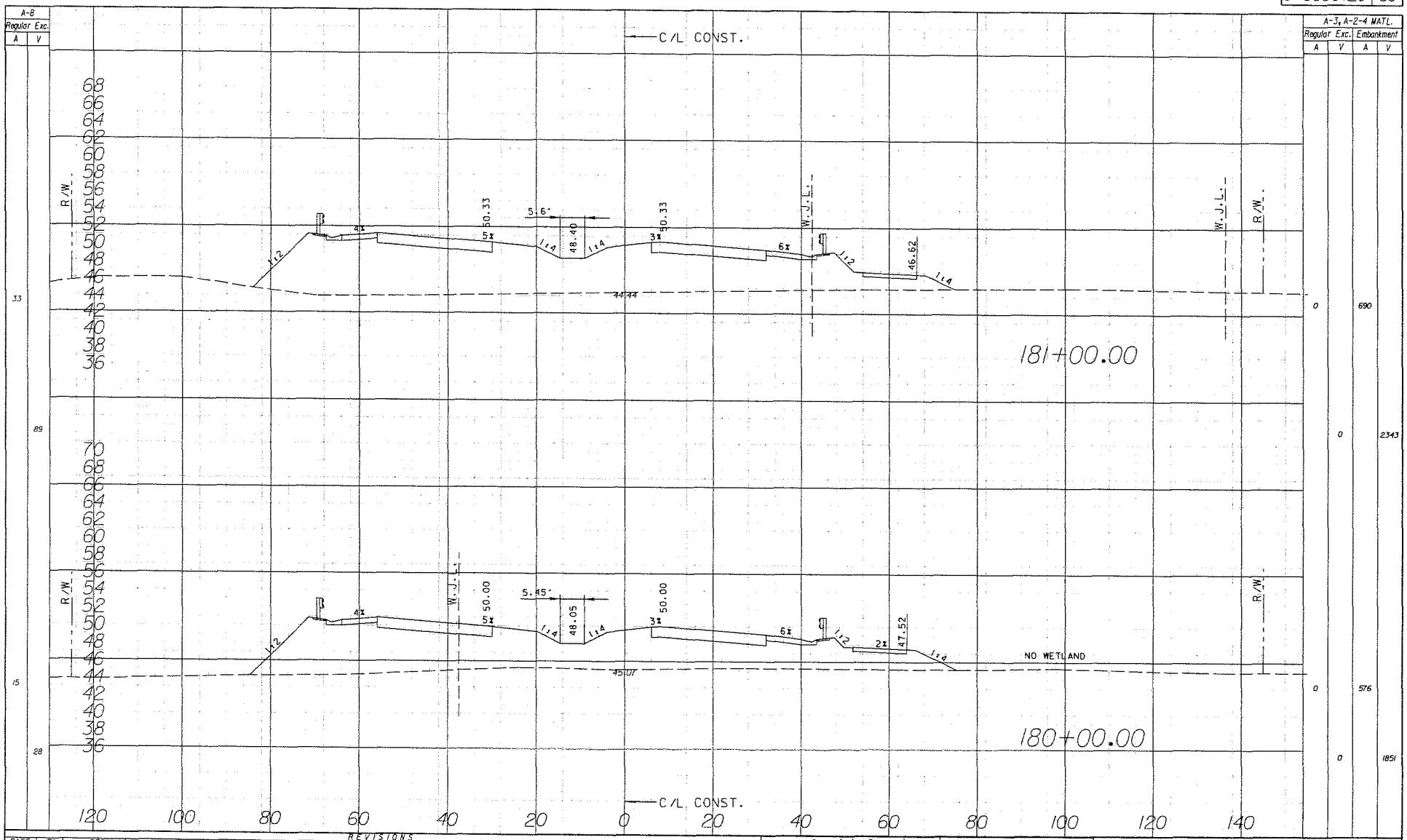
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS AND PLANNERS
6888 E. FOWLER AVENUE TAMPA FLORIDA 33617 813-884-4464
THOMAS J. MONTGOMERY P.E. NO. 35608

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:34:52 AM U:\6624-Phase-1\Roadway\Cross\R02.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	36



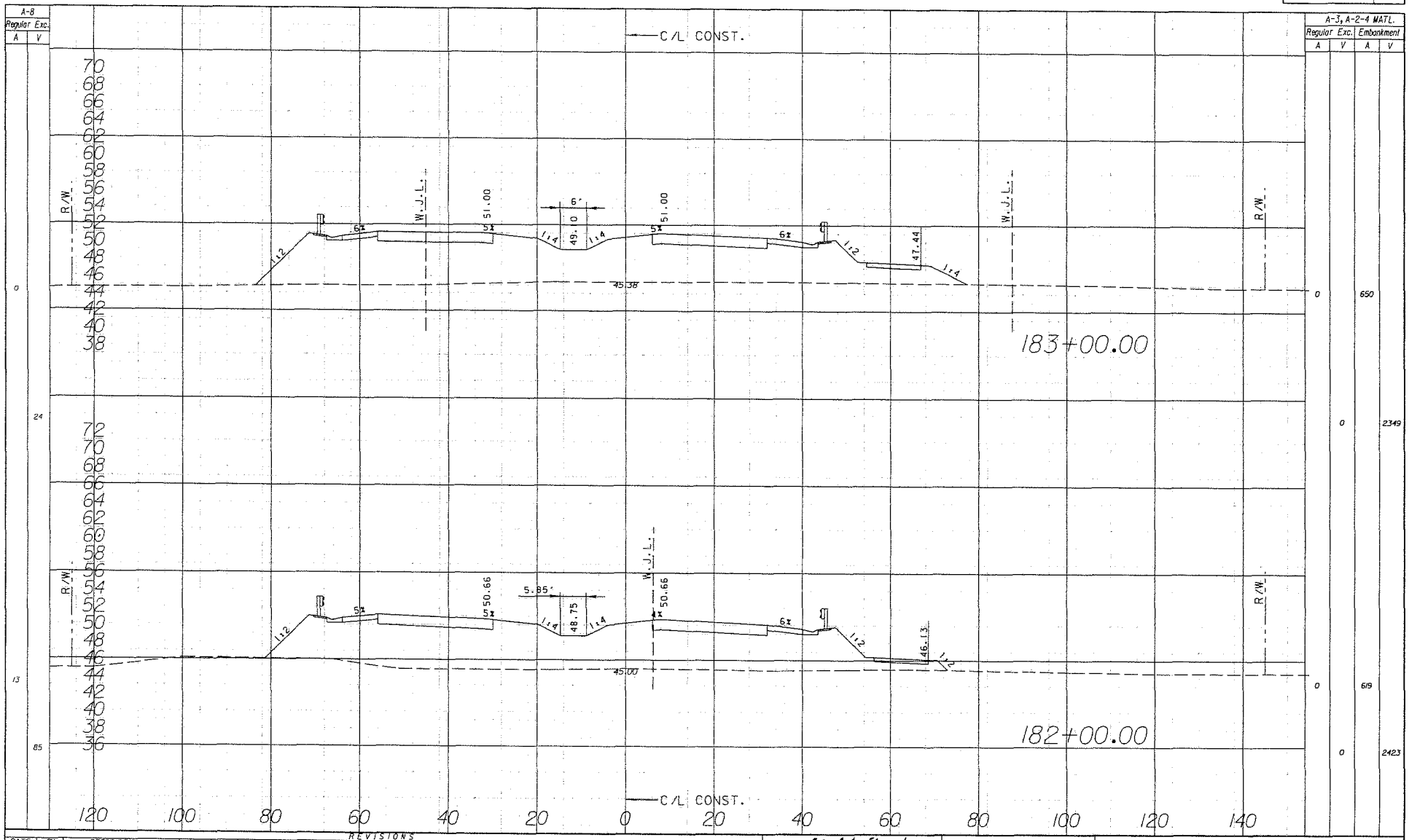
REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS SURVEYORS
6885 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4484
THOMAS J. MONTGOMERY P.E. NO. 39008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	37



REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

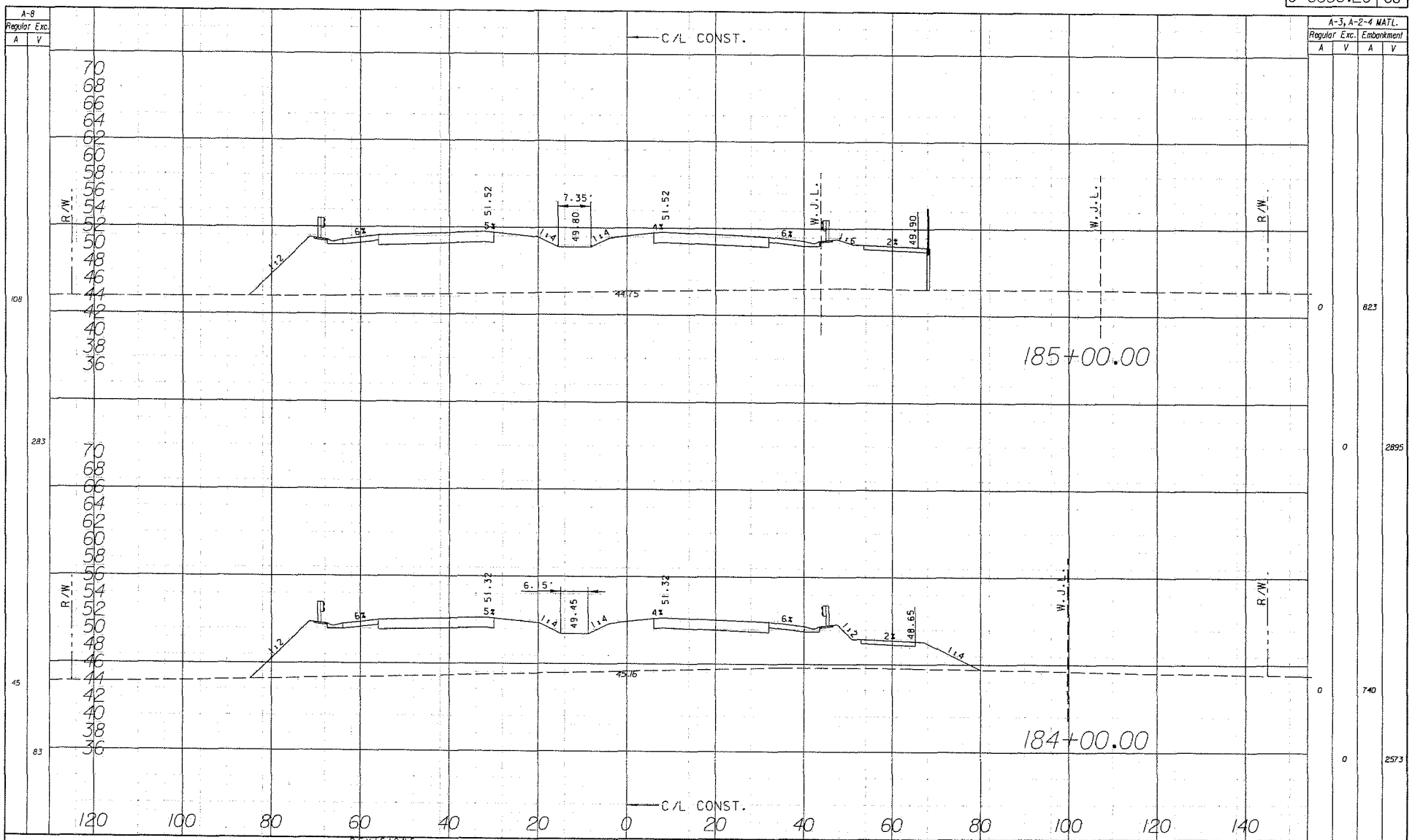
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6309 E. FOWLER AVENUE TAMPA FLORIDA 33617 CA# 4484
THOMAS J. MONTGOMERY P.E. NO. 39038

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

csmith 5/20/2011 11:35:14 AM U:\9624\Phase-1\Roadway\9624r002.pld

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	38



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

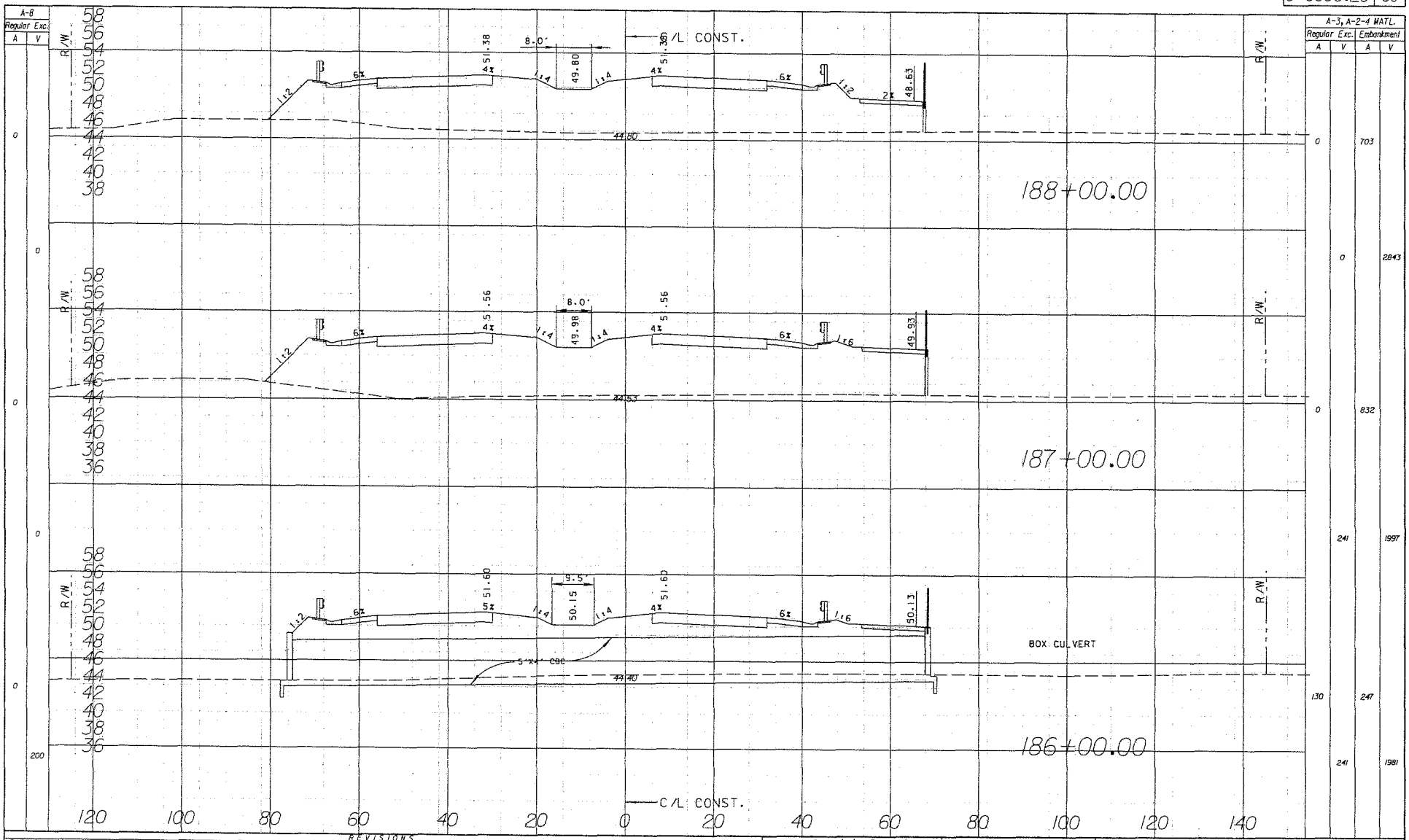
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
8005 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 4861
THOMAS J. MONTGOMERY P.E. NO. 19026

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

csmith 5/20/2011 11:35:20 AM Q:\9624\Phase-1\Roadway\Xsrdoz.plg

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	39



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

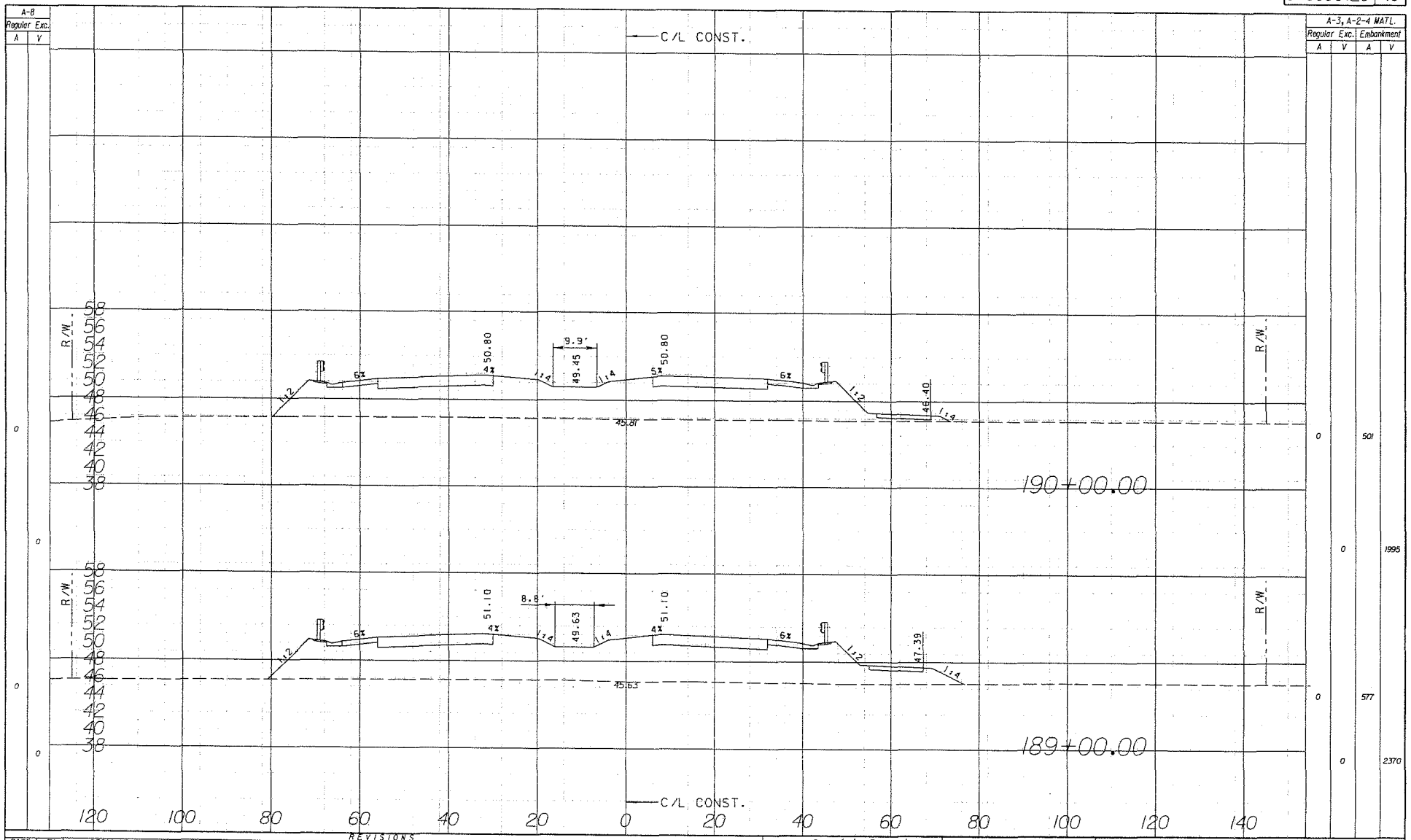
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6809 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 985-4481
THOMAS J. MONTGOMERY P.E. NO. 39038

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

5/20/2011 11:35:26 AM U:\9624\Phase-1\Roadway\Cross\rd012.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	40



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		501	
	0		0		1995
0		0		577	
	0		0		2370

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

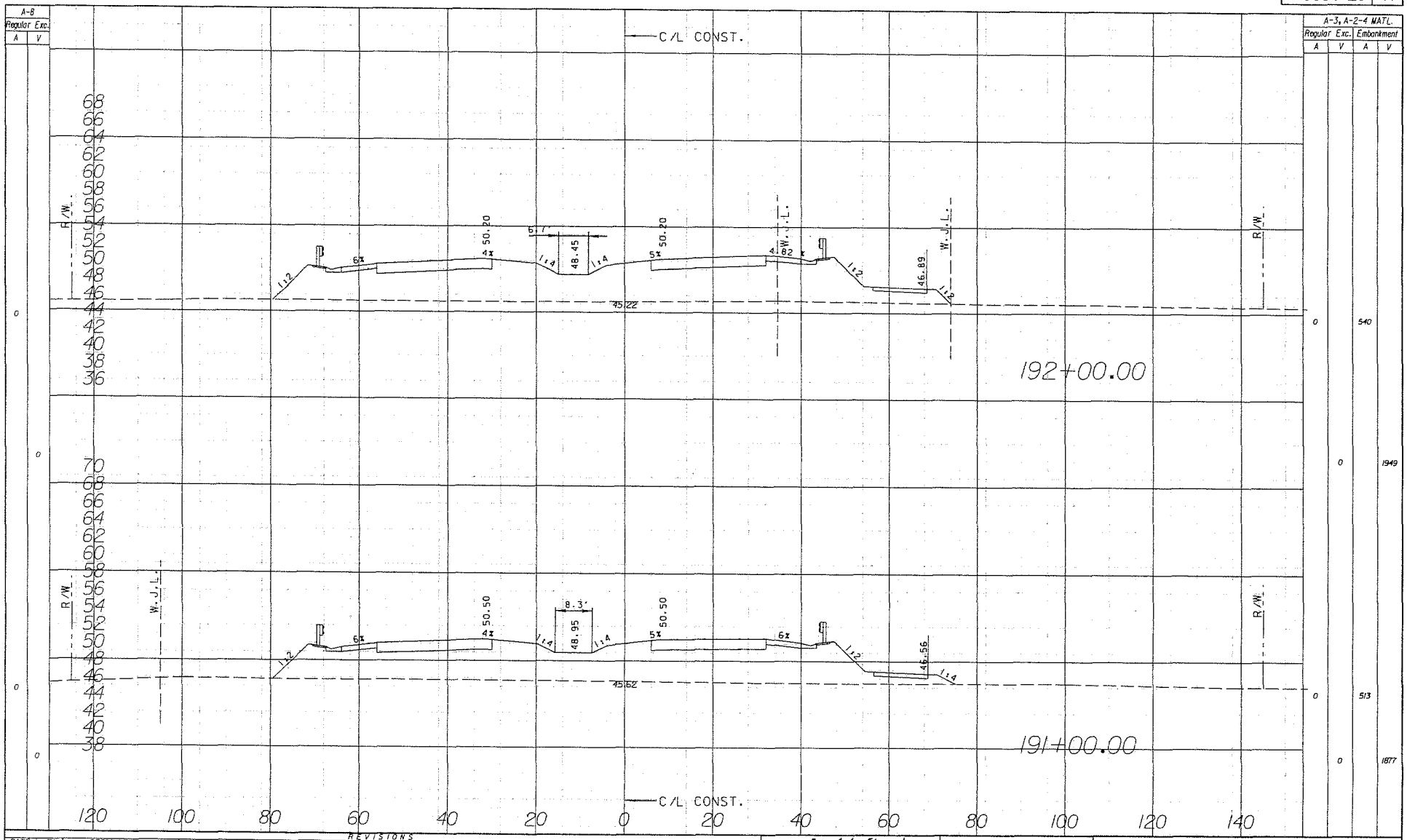
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6909 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4464
THOMAS J. MONTGOMERY P.E. NO. 37008

csmith 5/20/2011 11:35:36 AM U:\9624\Phase-1\Roadway\04378U2.dgn

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	41



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

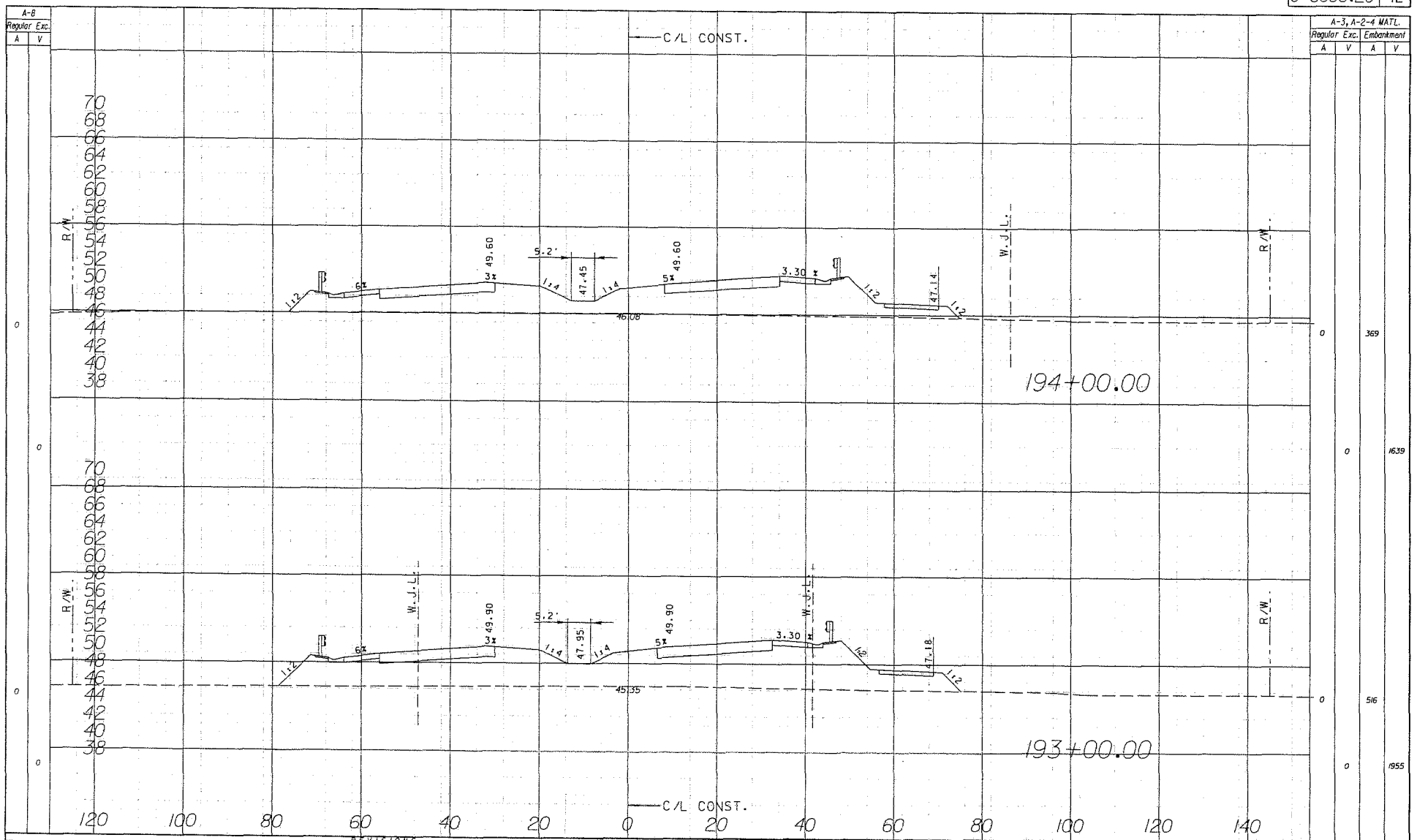
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
5905 E. FOWLER AVENUE - TAMPA FLORIDA 33617 EB# 4484
THOMAS J. MONTGOMERY P.E. NO. 39028

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

5/20/2011 11:35:42 AM U:\96-24\Phase-1\Roadway\Xsr1802.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	42



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

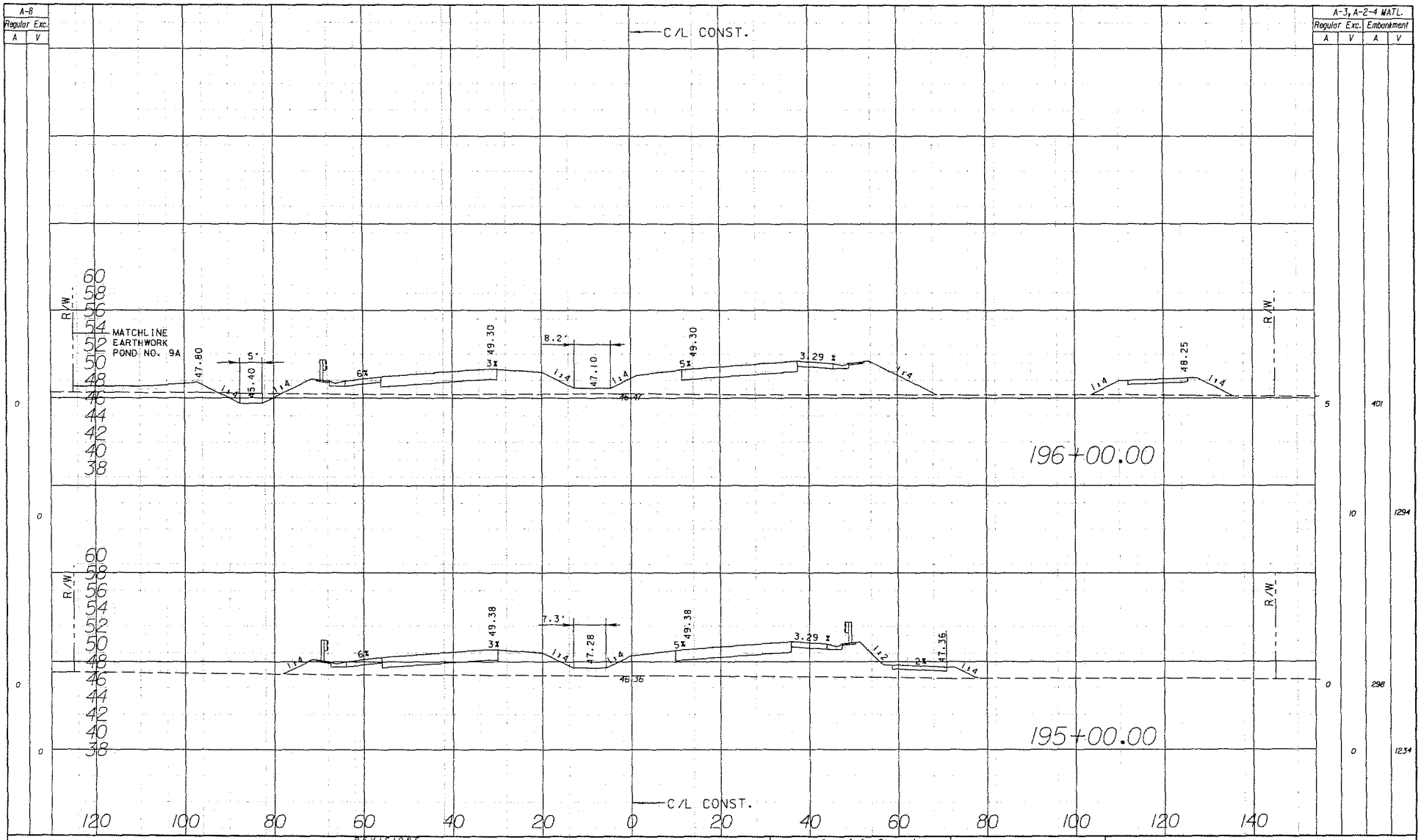
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6809 E. FOWLER AVENUE TAMPA FLORIDA 33617 CA# 4464
THOMAS J. MONTGOMERY P.E. NO. 39008

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

esmith 5/20/2011 11:35:14 AM u:\6624\Phase-1\Roadway\Drs\7802.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	43



REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

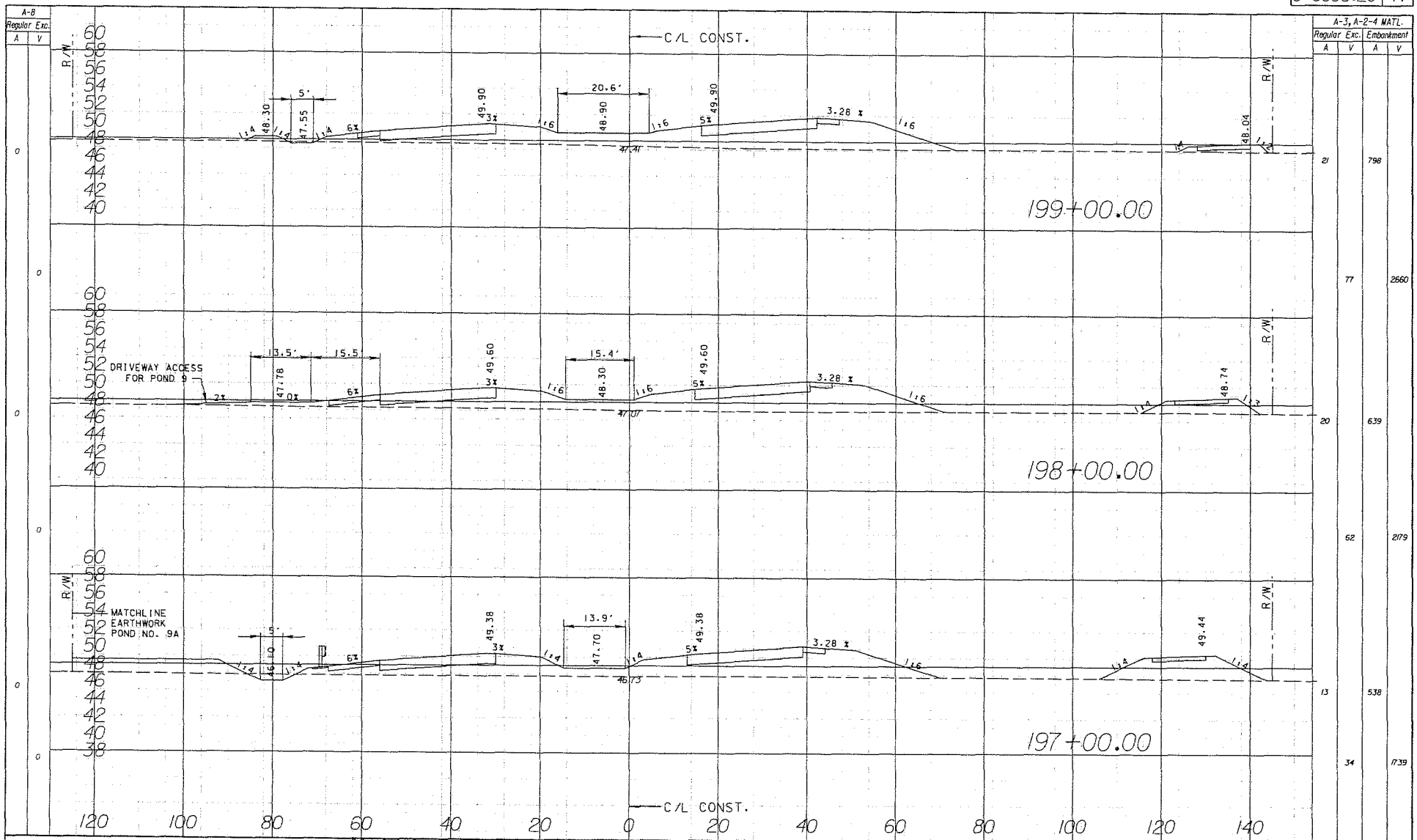
PITMAN HARTZSTEIN & ASSOCIATES
ENGINEERS
5889 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4464
THOMAS J. MONTGOMERY P.E. NO. 39606

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

smith 5/20/2011 11:35:57 AM U:\6624\Phase-1\Roadway\rd\xs\802.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	44



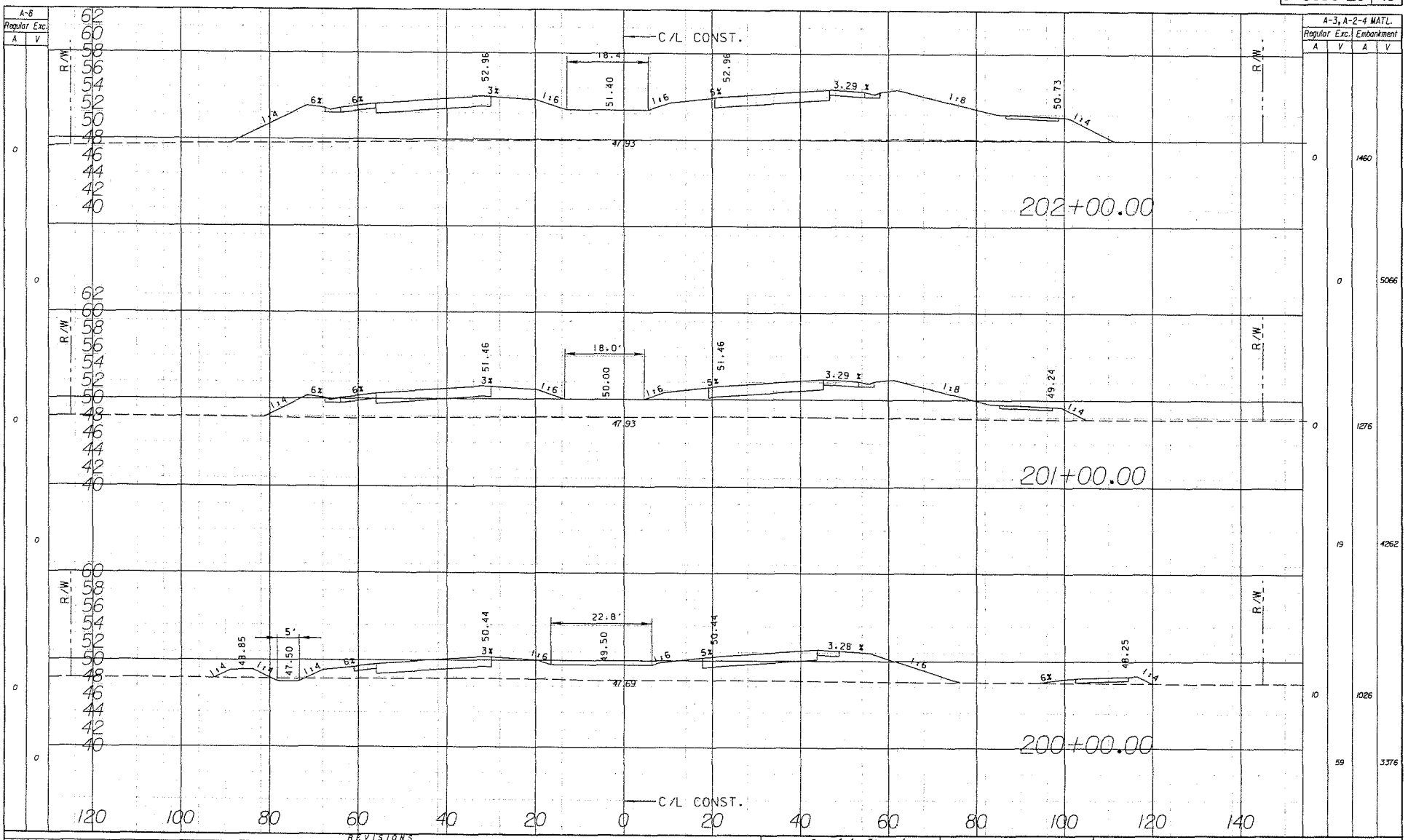
REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
4000 E. FOWLER AVENUE TAMPA FLORIDA 33617 CA# 4464
THOMAS L. MONTGOMERY P.E. NO. 35006

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	45



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

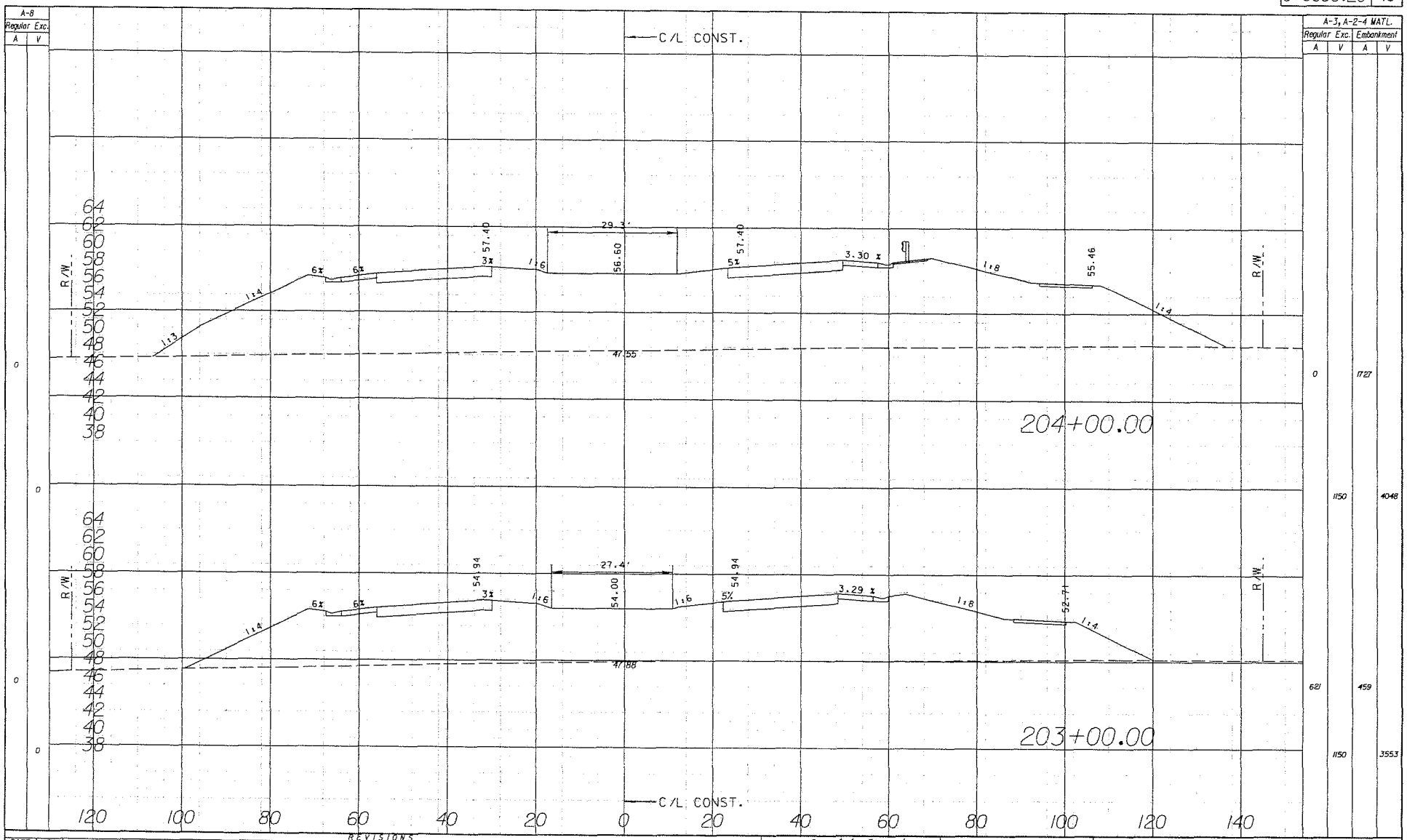
PITMAN HARTCHSTEIN & ASSOCIATES
ENGINEERS
6885 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 4464
THOMAS J. MONTGOMERY P.E. NO. 38608
csmith

PASCO COUNTY

5/20/2011 11:35:08 AM U:\9624-P\base-19\addwig\rdrs7802.pg

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	46



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		1727	
	0		1150		4048
0		621		459	
	0		1150		3553

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

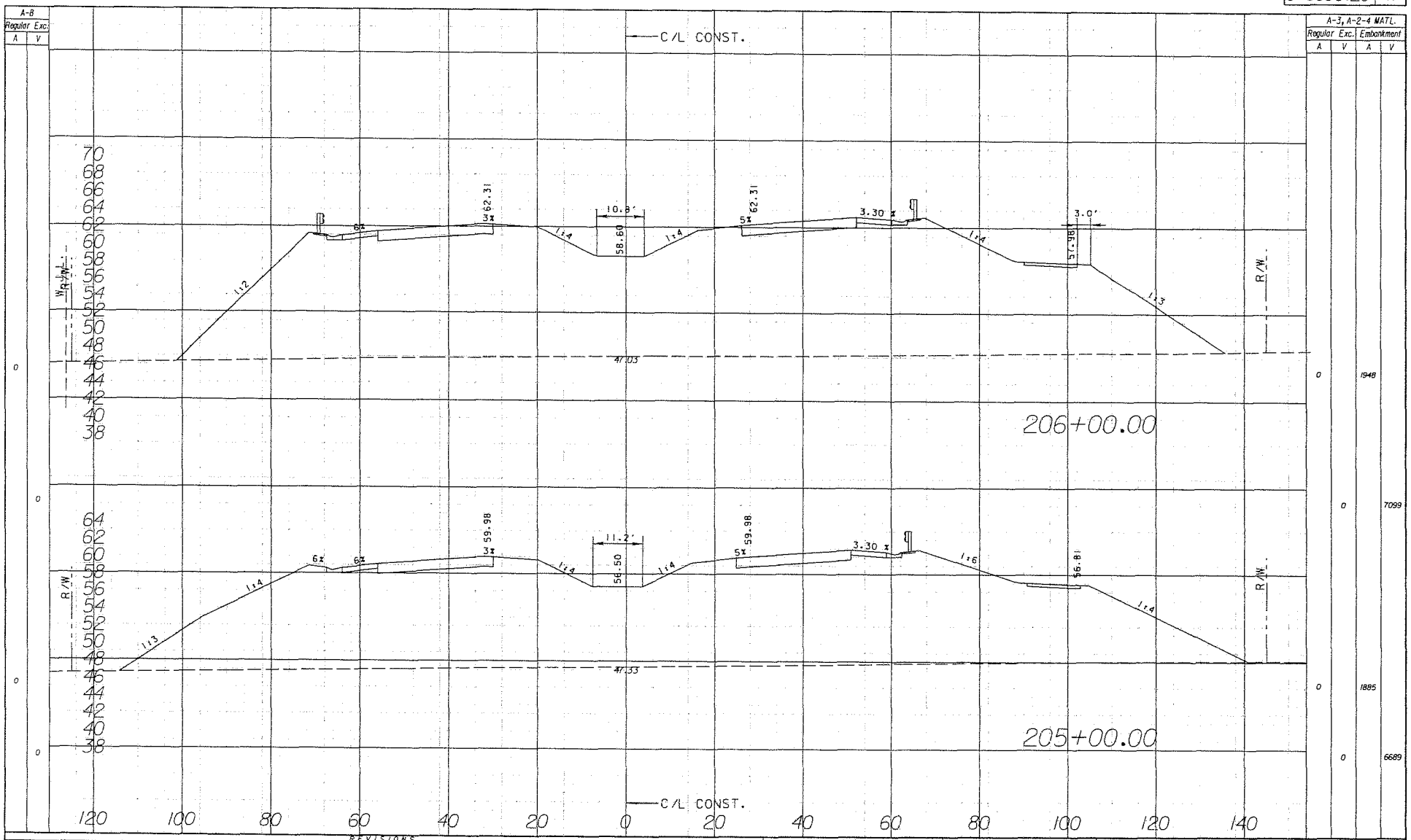
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
6305 E. FOWLER AVENUE TAMPA, FLORIDA 33617 EB# 4864
THOMAS L. MONTGOMERY P.E., NO. 39008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:36:25 AM U:\9624\Phase-1\9600wdg\CRsx\9602.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	47



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		1948	
	0		0		7099
0		0		1885	
	0		0		6689

REVISIONS															
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY		

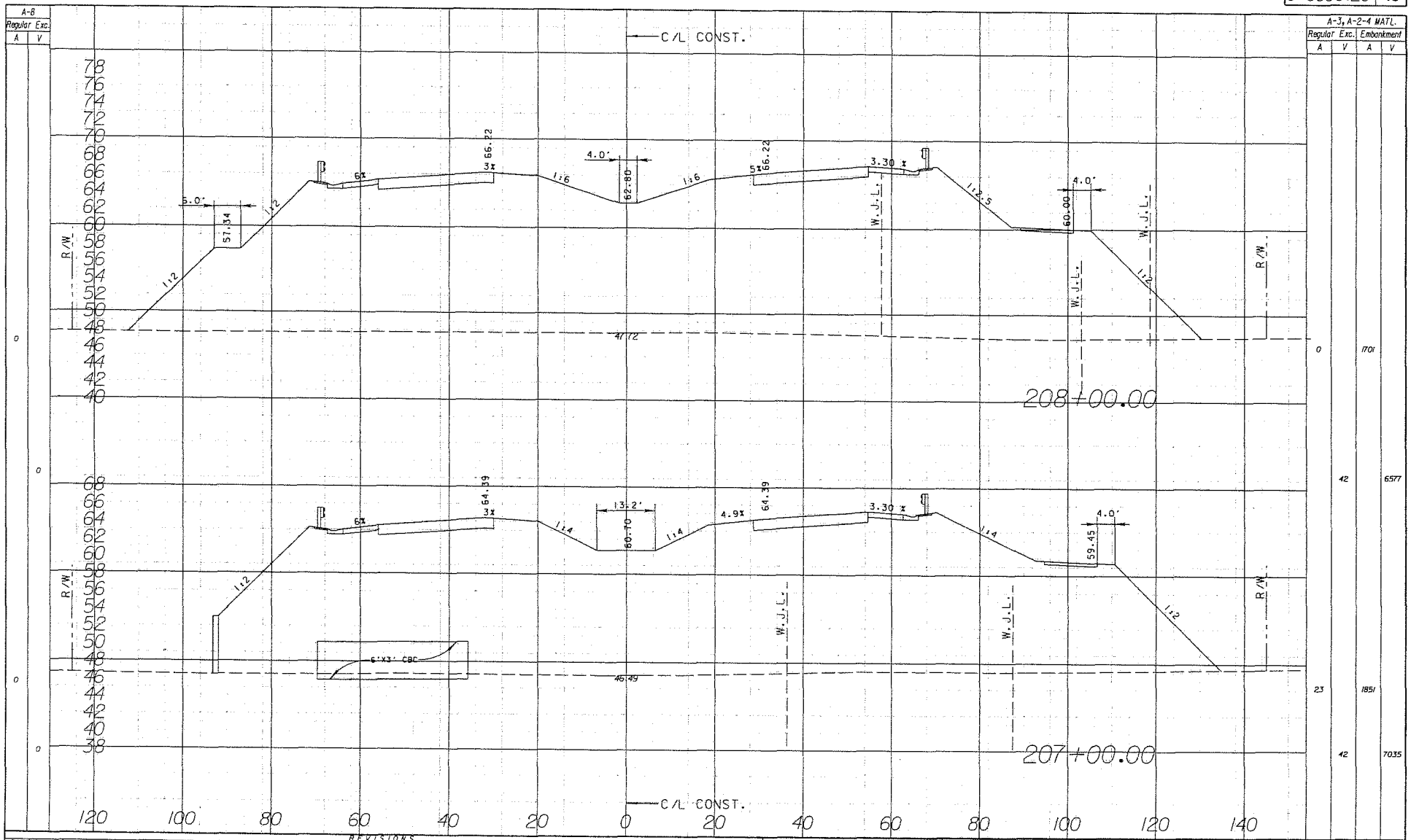
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
6089 E. FOWLER AVENUE TAMPA, FLORIDA 33617 (813) 4864
THOMAS J. MONTGOMERY P.E. NO. 39938
csmith

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:36:30 AM U:\9624-Phase-1\Roadway\Xsr1802.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	48



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		1701	
	0		42		6577
0		23		1851	
	0		42		7035

REVISIONS															
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY		

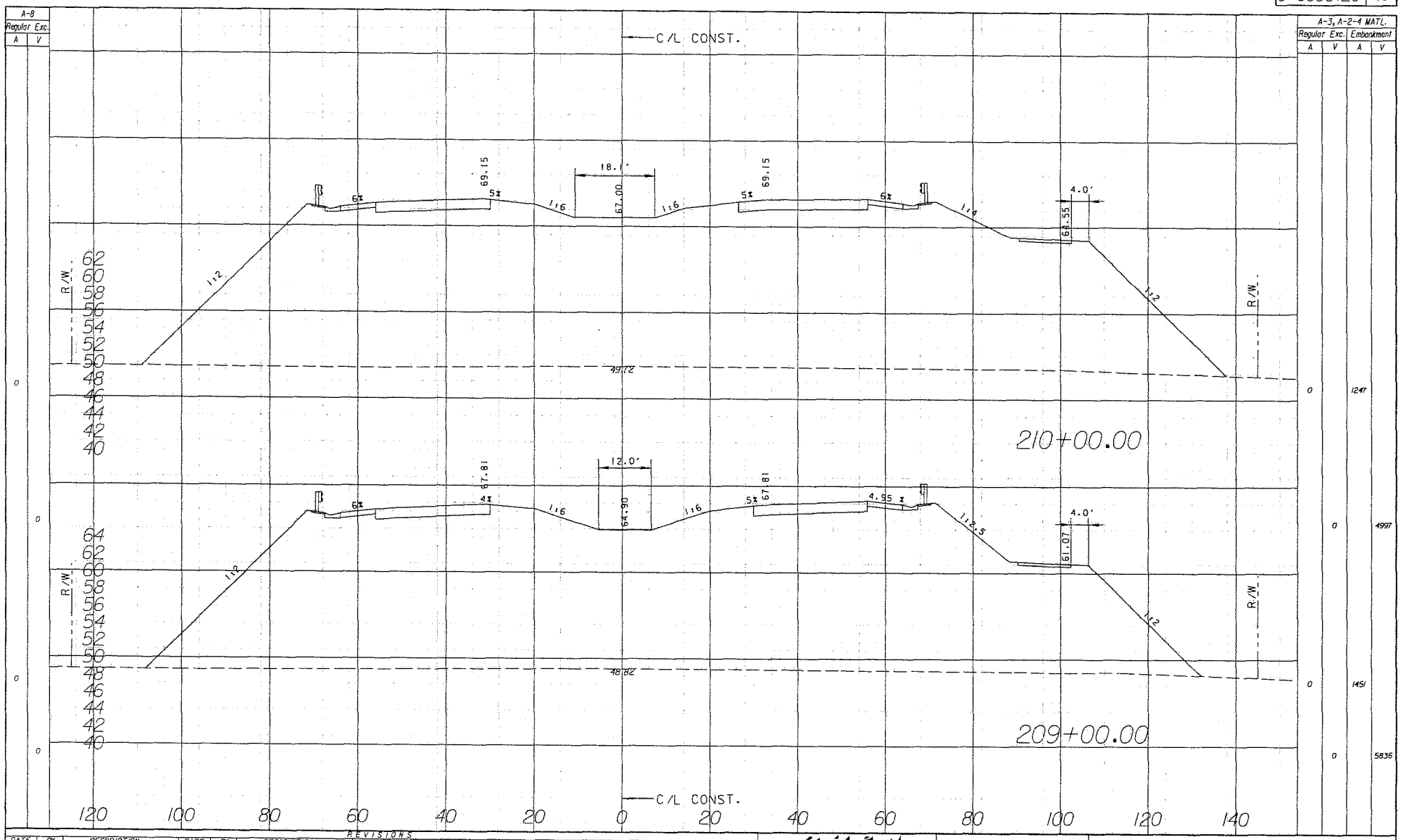
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERING
6885 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4841
THOMAS J. MONTGOMERY P.E. NO. 38008
tsmith

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:36:39 AM U:\9624\Phase-1\Roadway\09370UZ.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	49



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		1247	
0		0		4997	
0		0		1451	
0		0		5836	

REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

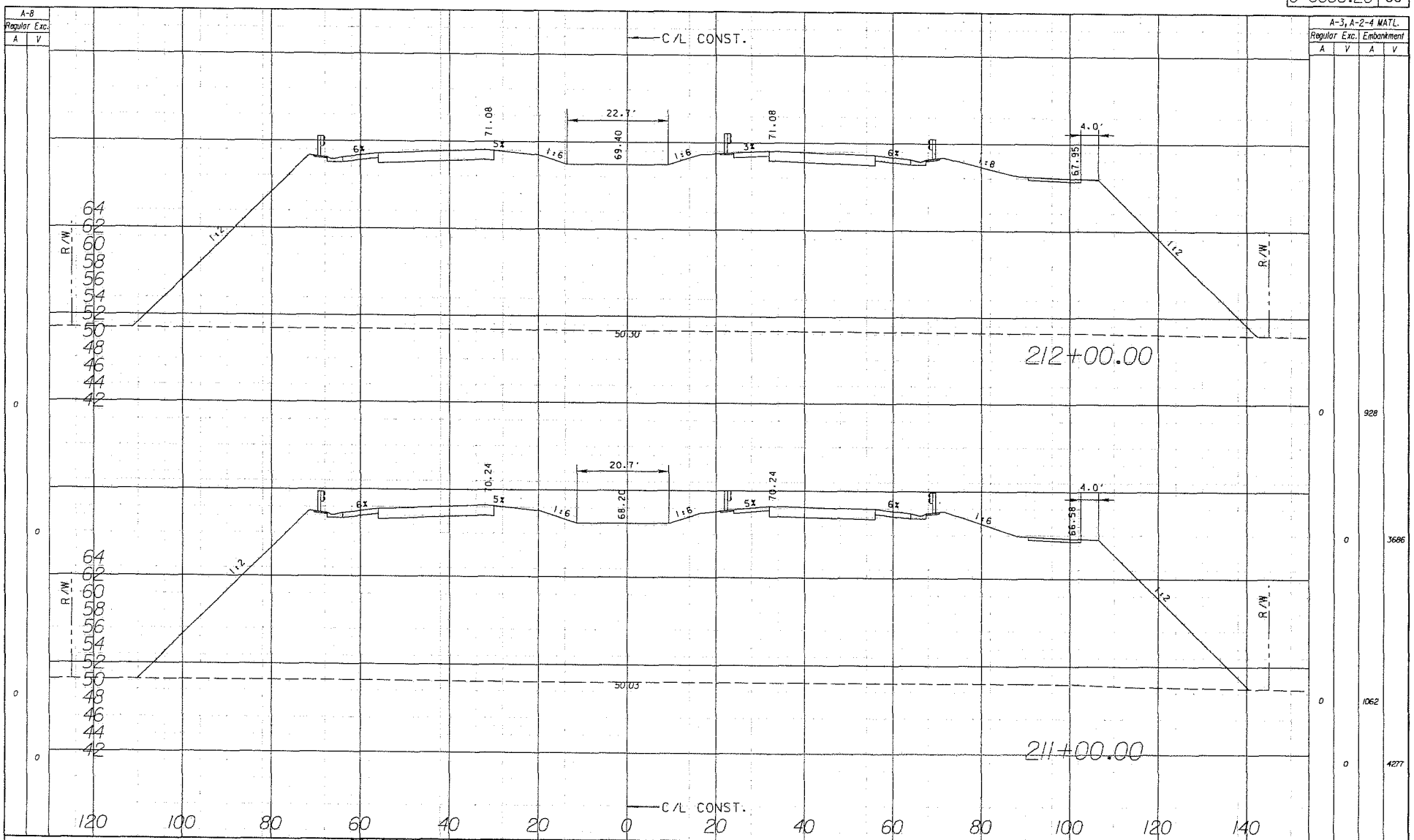
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
8989 E. FOWLER AVENUE, TAMPA FLORIDA, 33617 EBx 4464
THOMAS J. MONTGOMERY P.E. NO. 28008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:35:44 AM U:\5624\Phase-1\Roadway\dxs1002.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	50



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0	0	0	0	928	3686
0	0	0	0	1062	4277

REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

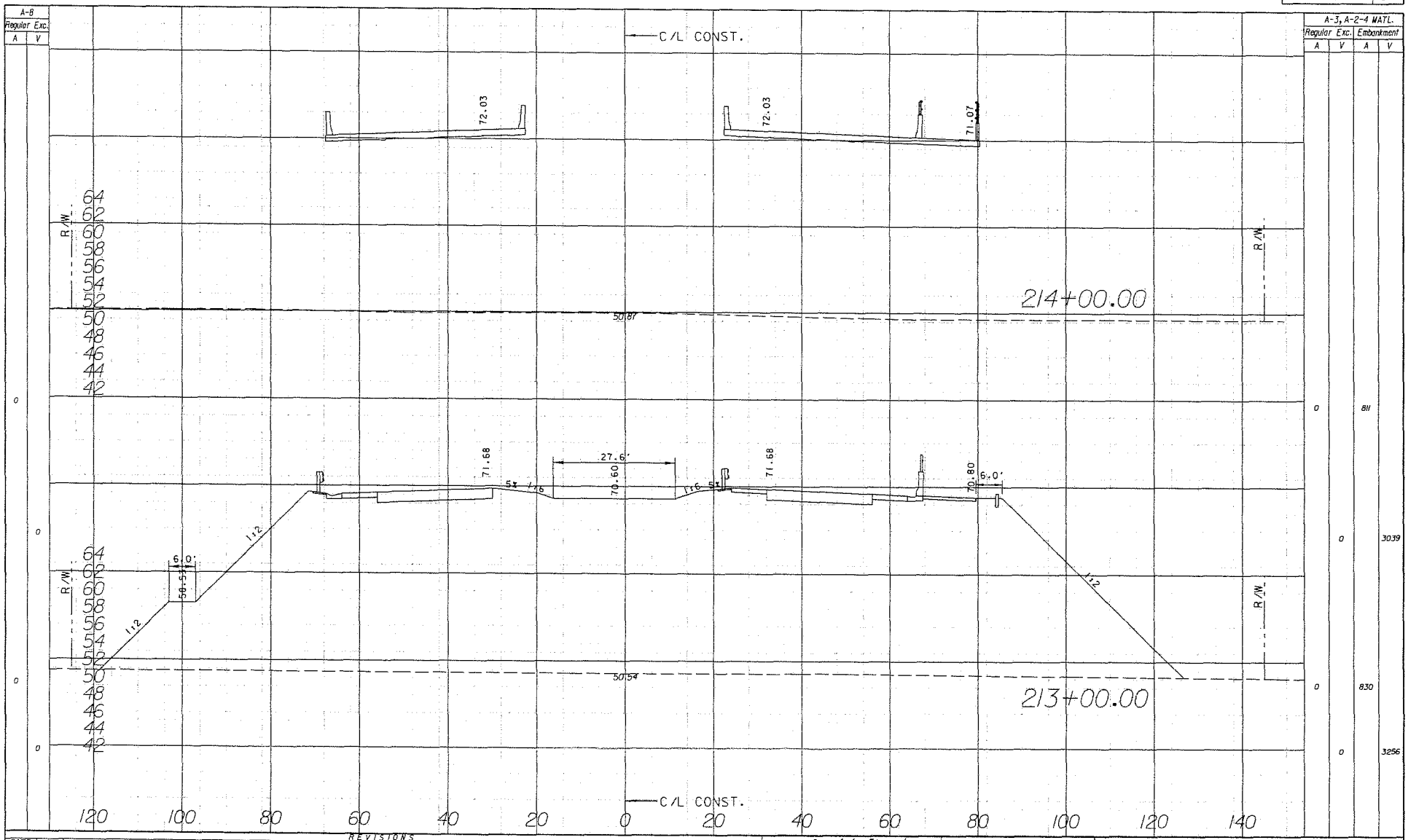
PITMAN HARTENSTEIN & ASSOCIATES, INC.
ENGINEERS
1985 E. FOWLER AVENUE TAMPA FLORIDA 33612 EB# 4461
THOMAS J. MONTGOMERY P.E. NO. 35006

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:36:50 AM u:\GE24\Pass-1\Roadway\70xs702.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	51



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0		0		811	
	0		0		3039
0		0		830	
	0		0		3256

REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

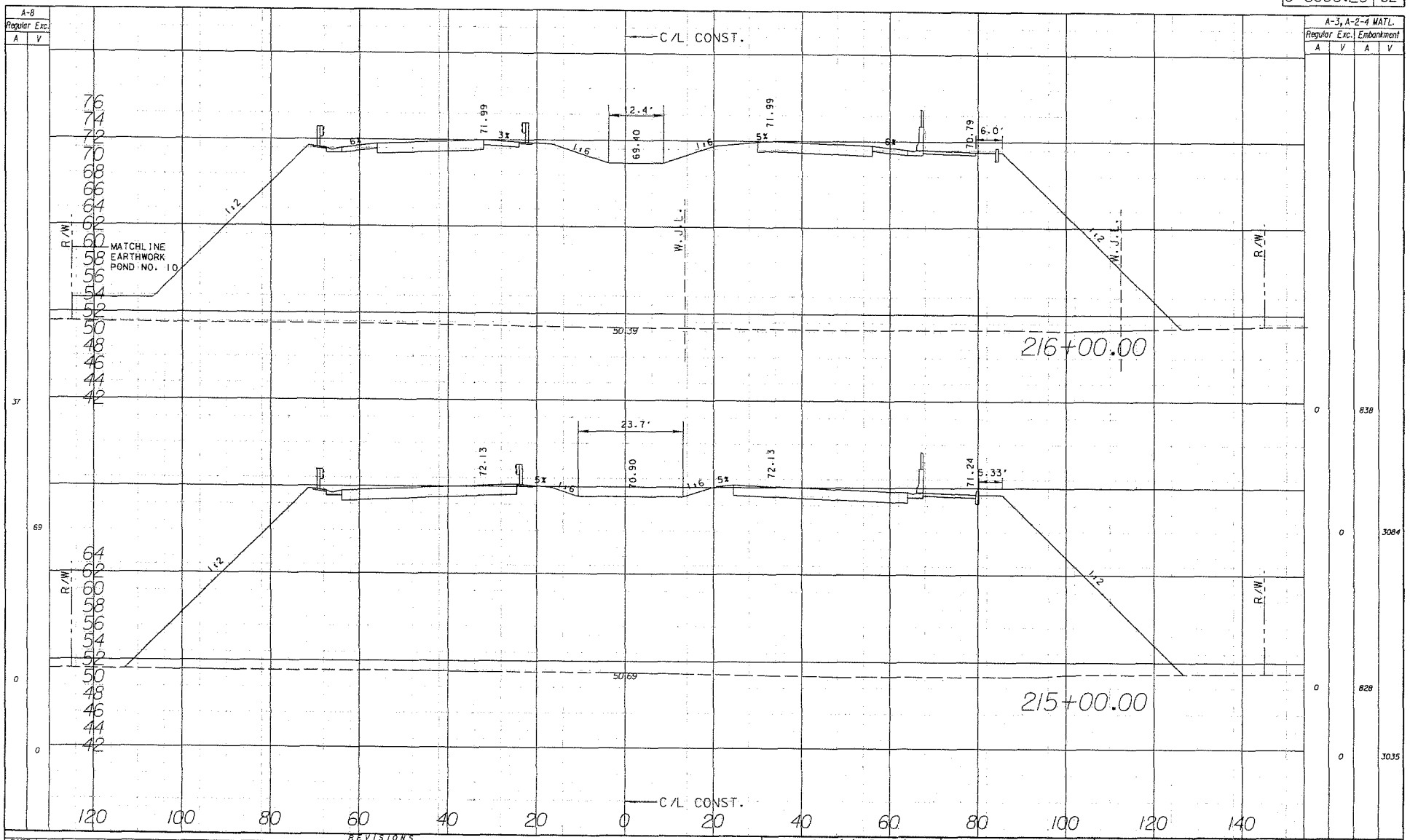
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
6985 E. FOWLER AVENUE TAMPA FLORIDA 33617 CBA 4484
THOMAS J. MONTGOMERY P.E. NO. 28008
comth

PASCO COUNTY

5/20/2011 11:37:00 AM U:\5624\Phase-1\roadway\0dxs1302.pl

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	52



REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6809 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4464
THOMAS J. MONTGOMERY P.E. NO. 38636
csmith

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

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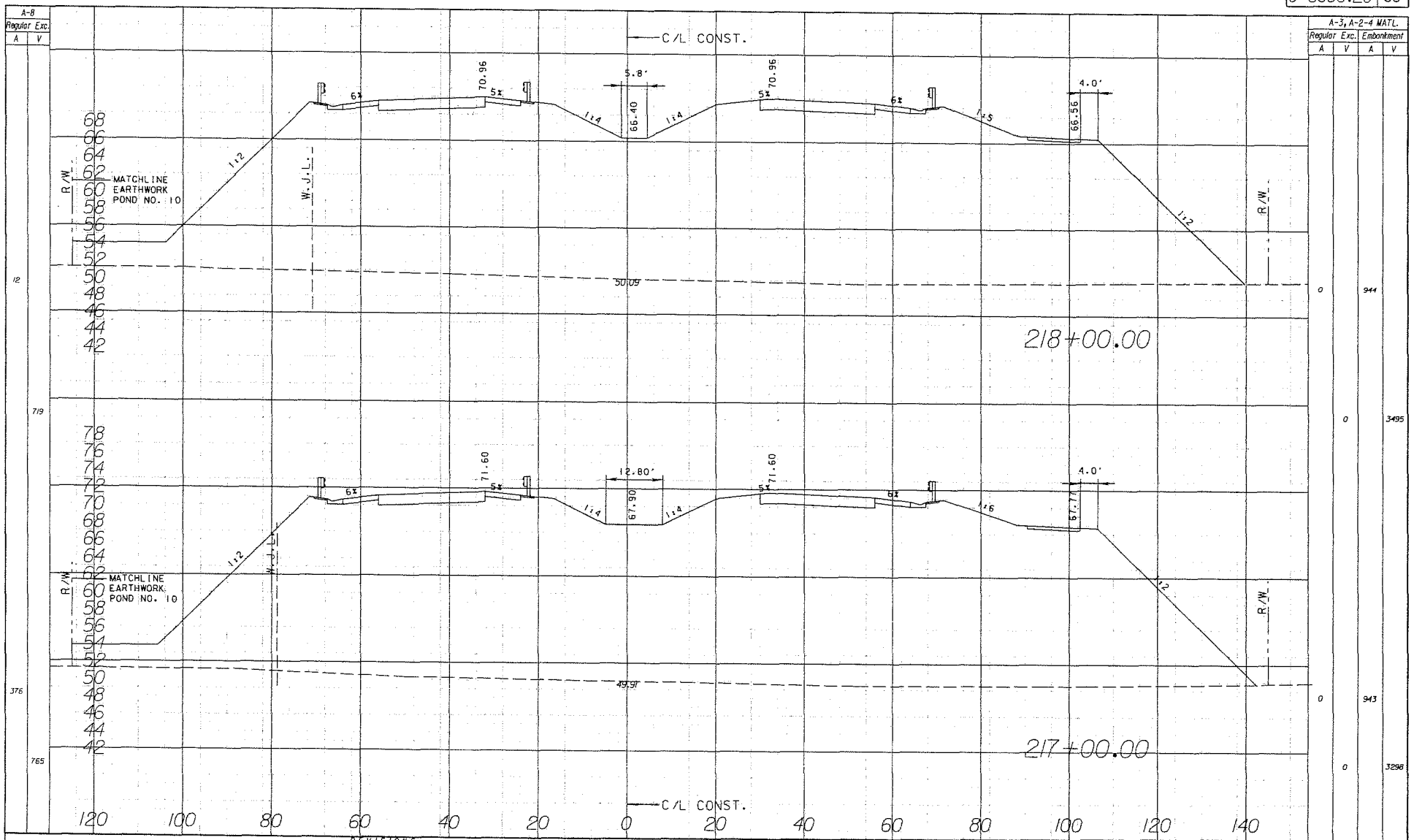
COUNTY PROJ. NO.	SHEET NO.
C 6686.20	53



REVISIONS															
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY		

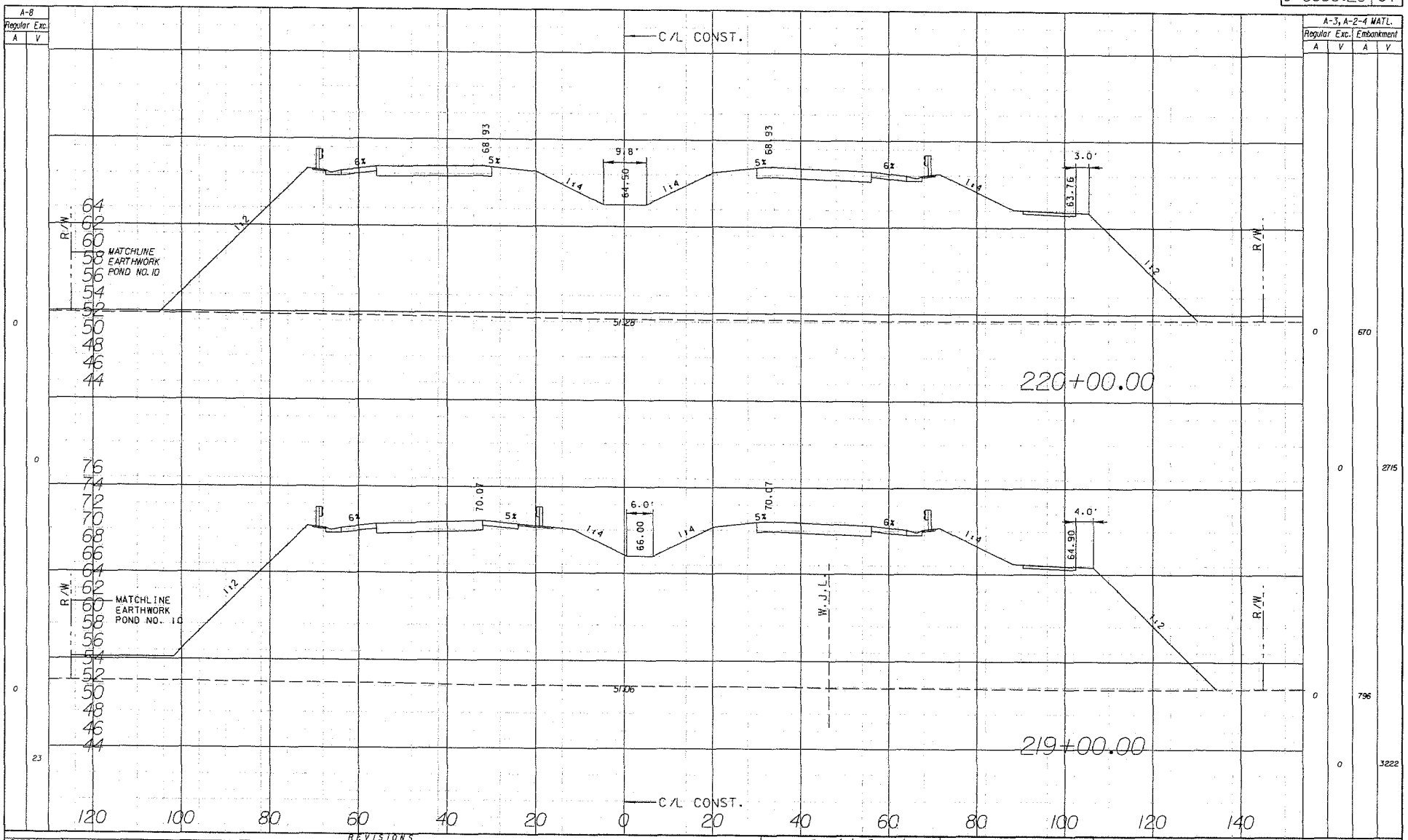
PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
8888 E. FOWLER AVENUE TAMPA FLORIDA 33617 PH 1-813
THOMAS J. MONTGOMERY P.E. NO. 19608

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:37:32 AM U:\9624\Phase-1\Roadway\Xsec002.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	54



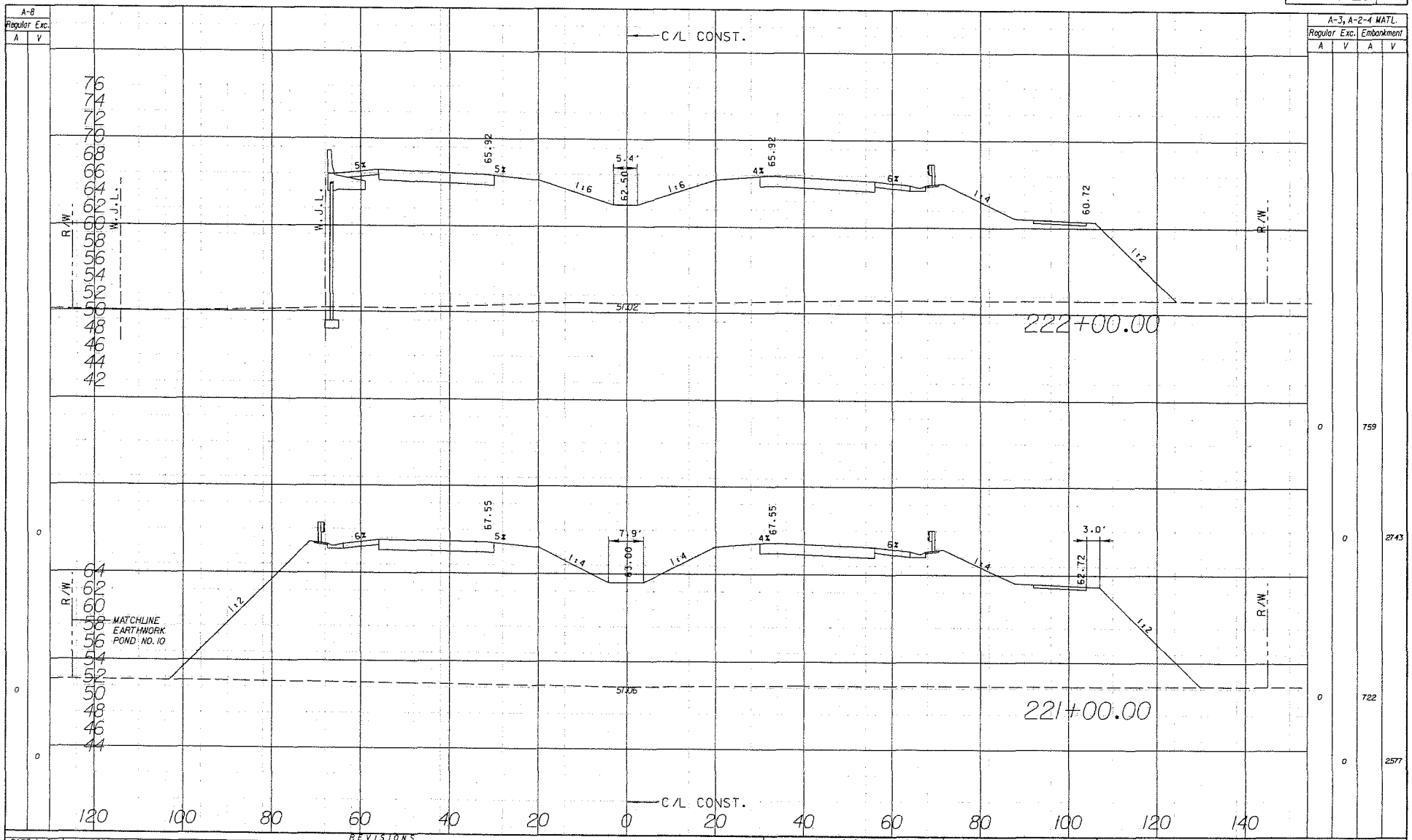
REVISIONS															
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY		

PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS PLANNERS SURVEYORS
6889 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4464
THOMAS L. MONTGOMERY P.E. NO. 38608

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	55



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

PITMAN HARTENSTEIN & ASSOCIATES
ENGINEERS
6905 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 4464
THOMAS J. MONTGOMERY P.E. NO. 39028

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

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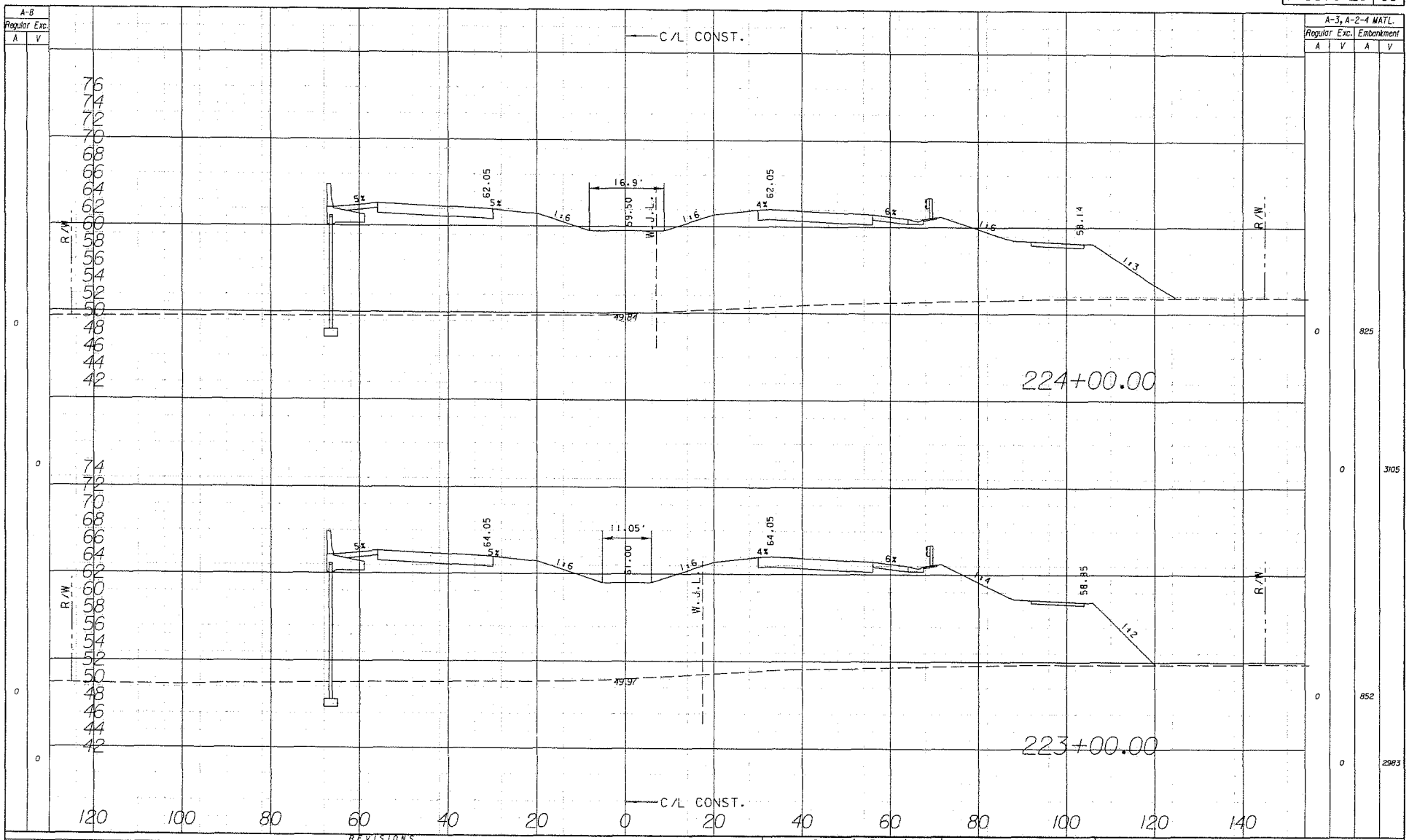
COUNTY PROJ. NO.	SHEET NO.
C 6686.20	56



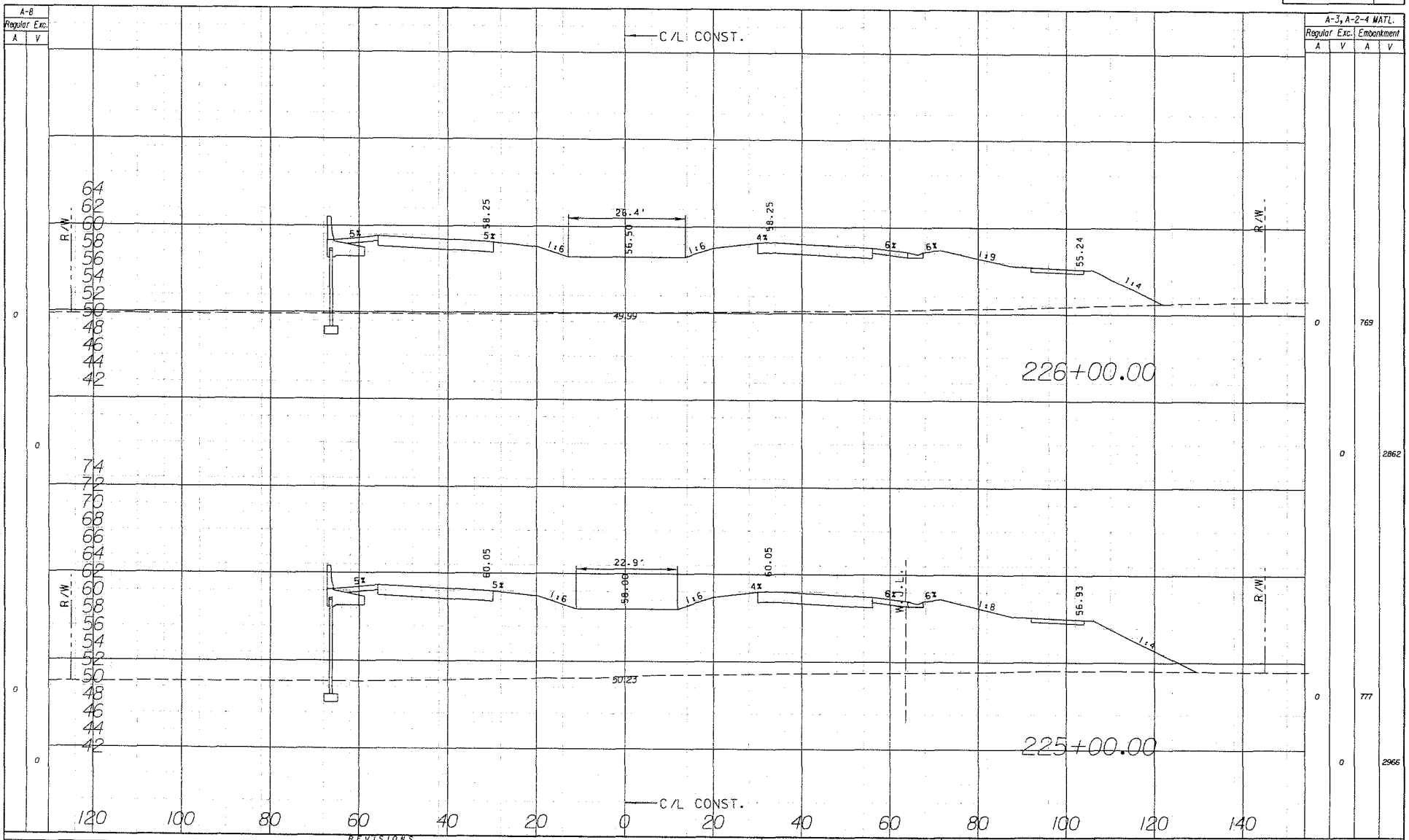
REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTCHSTEN & ASSOCIATES
ENGINEERS
5509 E. FOWLER AVENUE TAMPA FLORIDA 33617 EBN 4464
THOMAS J. MONTGOMERY P.E. NO. 39008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	57



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

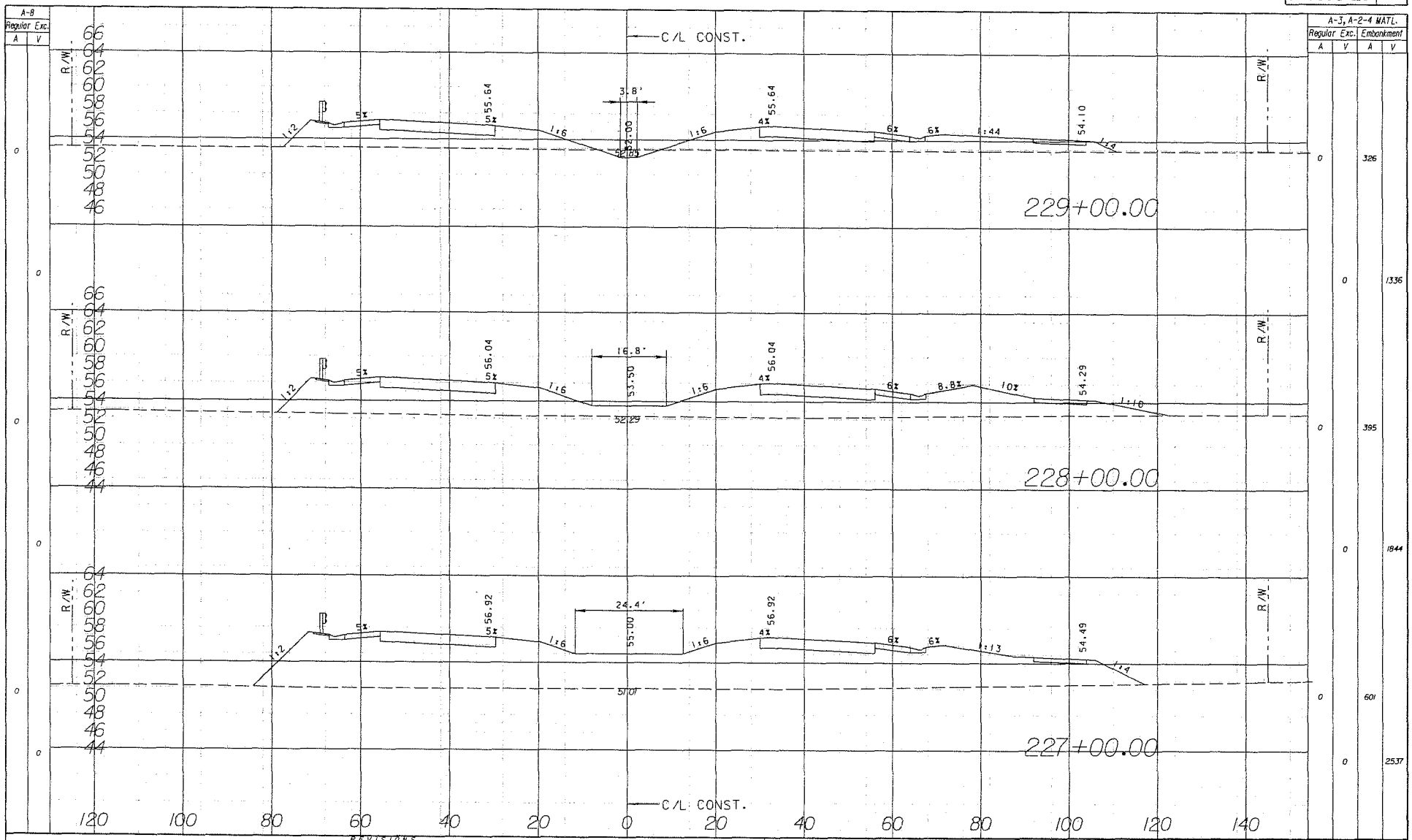
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS & PLANNERS INC.
5905 E. FOWLER AVENUE TAMPA, FLORIDA 33617 ☎ 4464
THOMAS J. MONTGOMERY P.E. NO. 39208
cmith

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:31:43 AM U:\9624\Phase-1\Roadway\ridxsr002.plg

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	58



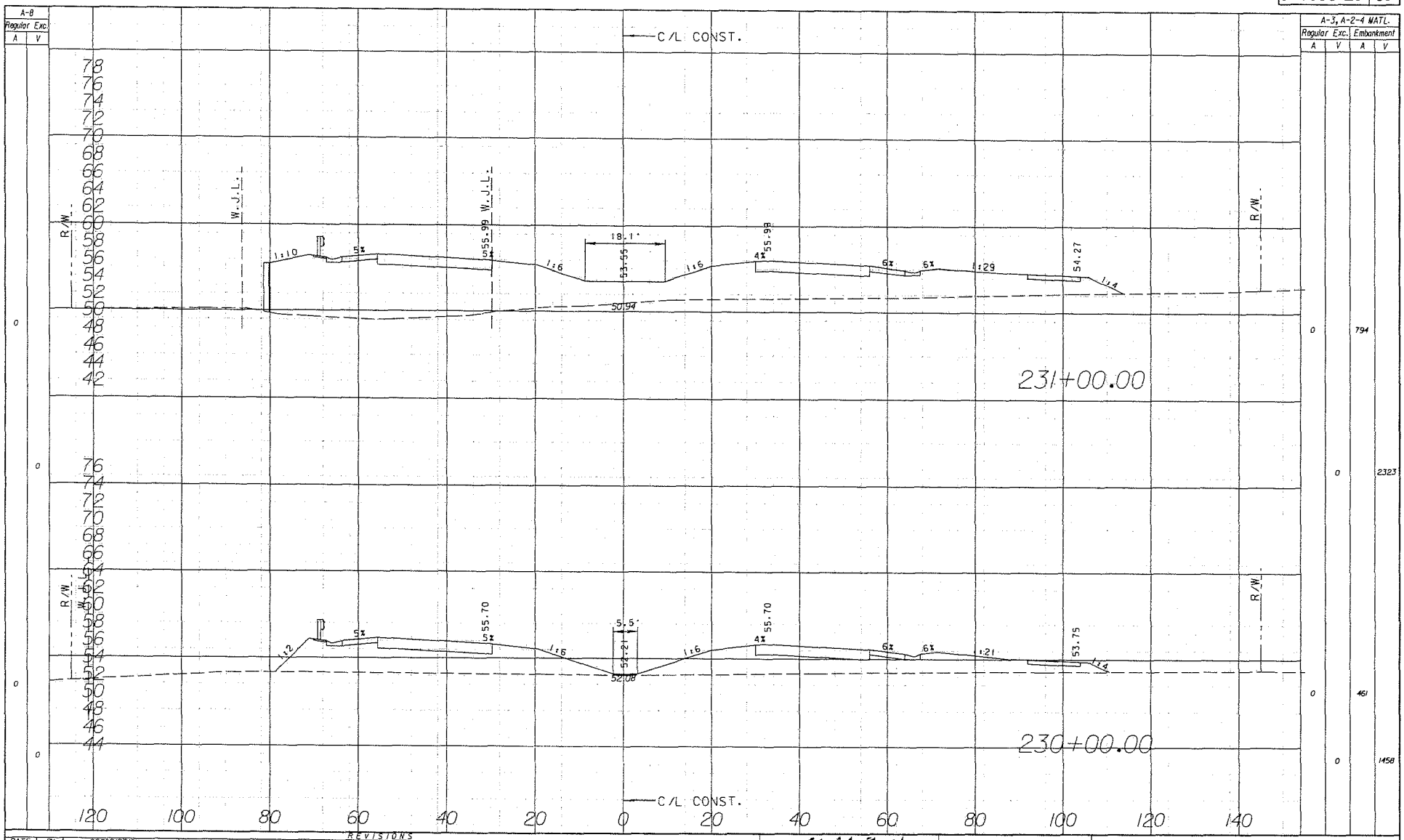
REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6995 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4484
THOMAS J. MONTGOMERY P.E. NO. 39208

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	59



REVISIONS													
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

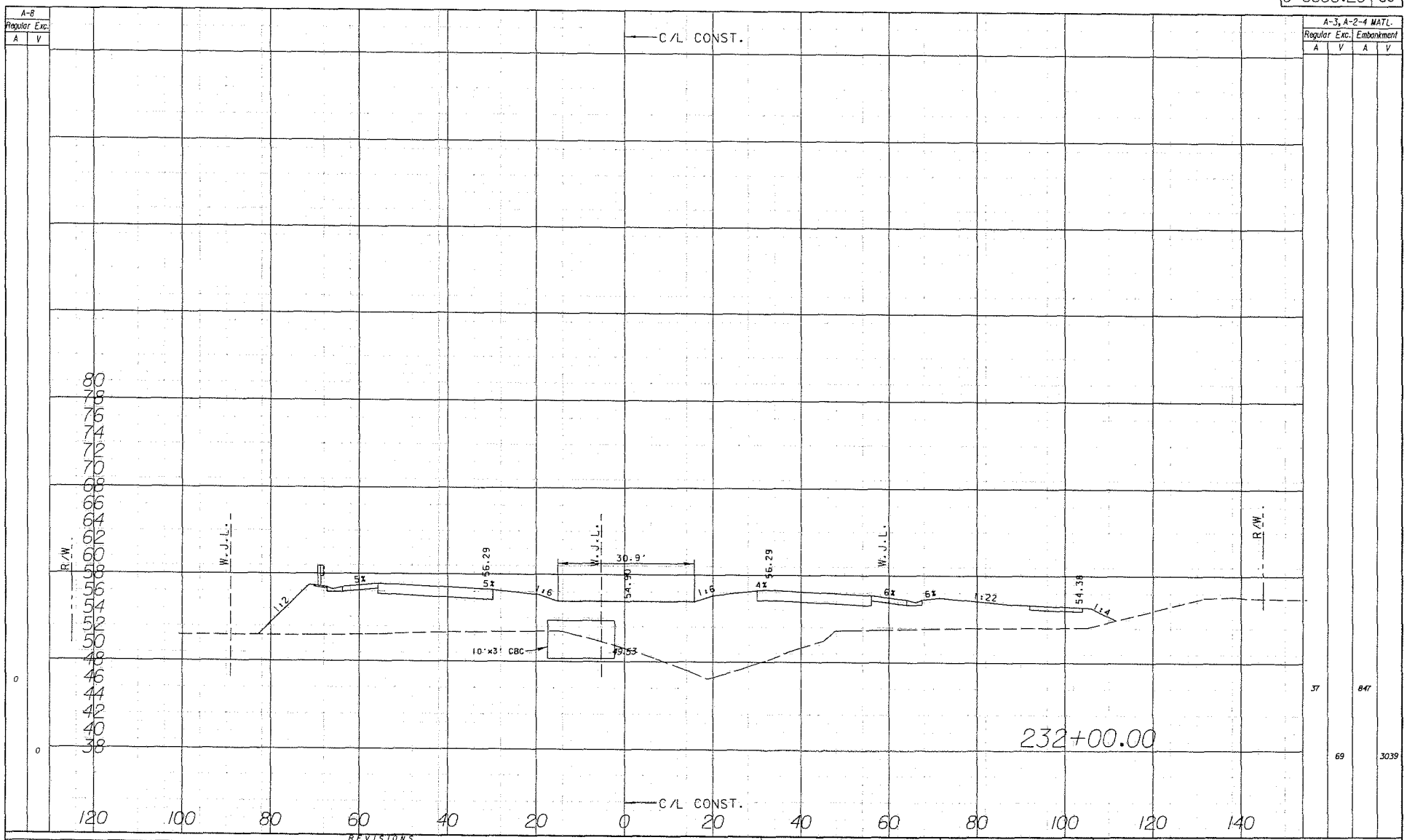
PITMAN HARTCHSTEN & ASSOC., INC.
ENGINEERS
6803 E. FOWLER AVENUE TAMPA FLORIDA 33617 EB# 4164
THOMAS J. MONTGOMERY P.E. NO. 39008

PASCO COUNTY

CROSS SECTION (RIDGE ROAD)

5/20/2011 11:37:58 AM U:\6624\Plate2-1\Roadway\Data\802.pld

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	60



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

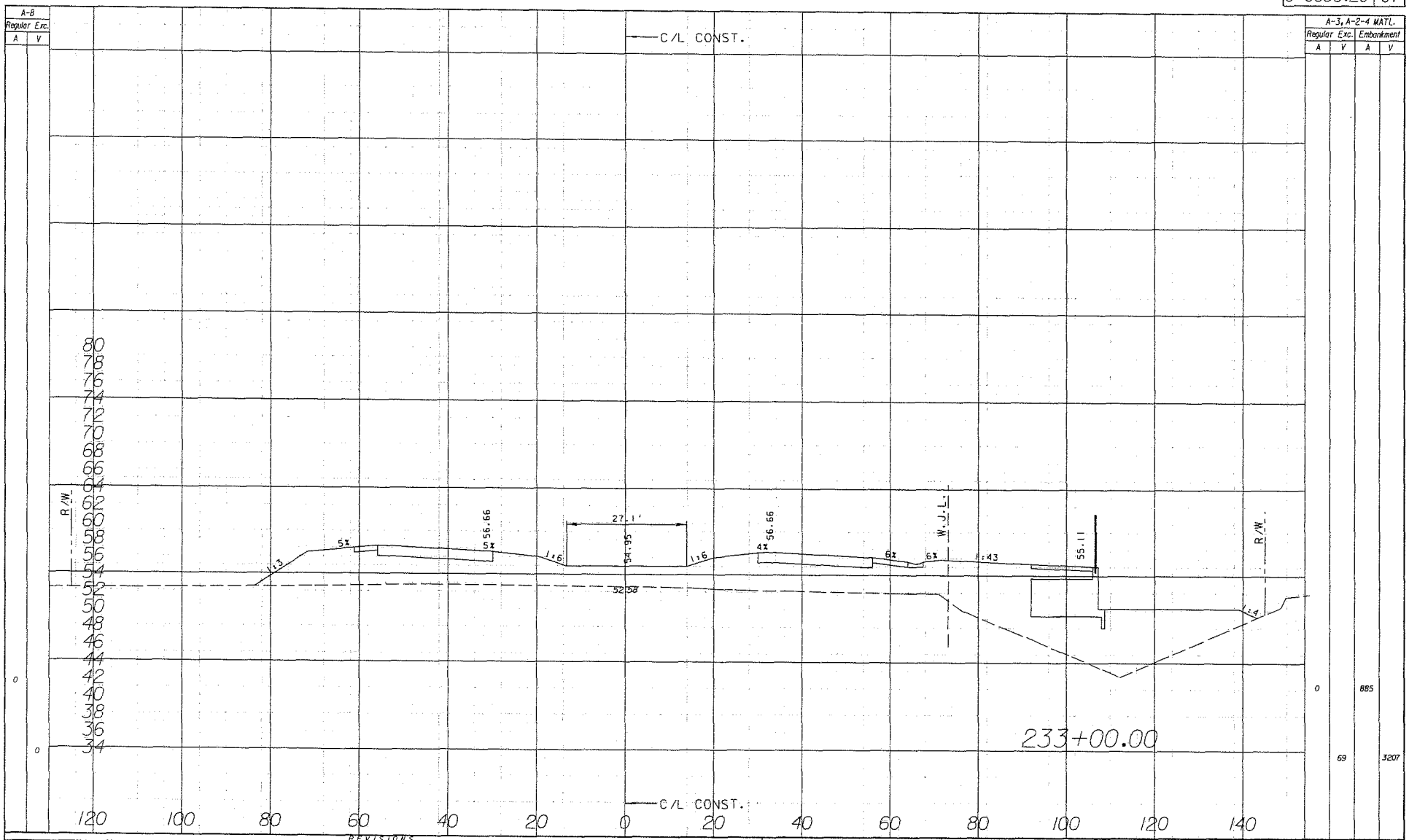
PITMAN HARTENSTEIN & ASSOC., INC.
ENGINEERS
8905 E. FOWLER AVENUE, TAMPA FLORIDA 33617 EB# 4464
THOMAS J. MONTGOMERY P.E. NO. 39208

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)

5/20/2011 11:38:39 AM U:\9624\Phase-I\Roadway\Xsrd002.pld

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	61



REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

PITMAN HARTENSTEIN & ASSOC. INC.
ENGINEERS
6865 E. FOWLER AVENUE TAMPA FLORIDA 33617 (813) 4164
THOMAS J. MONTGOMERY P.E. NO. 35008

PASCO COUNTY

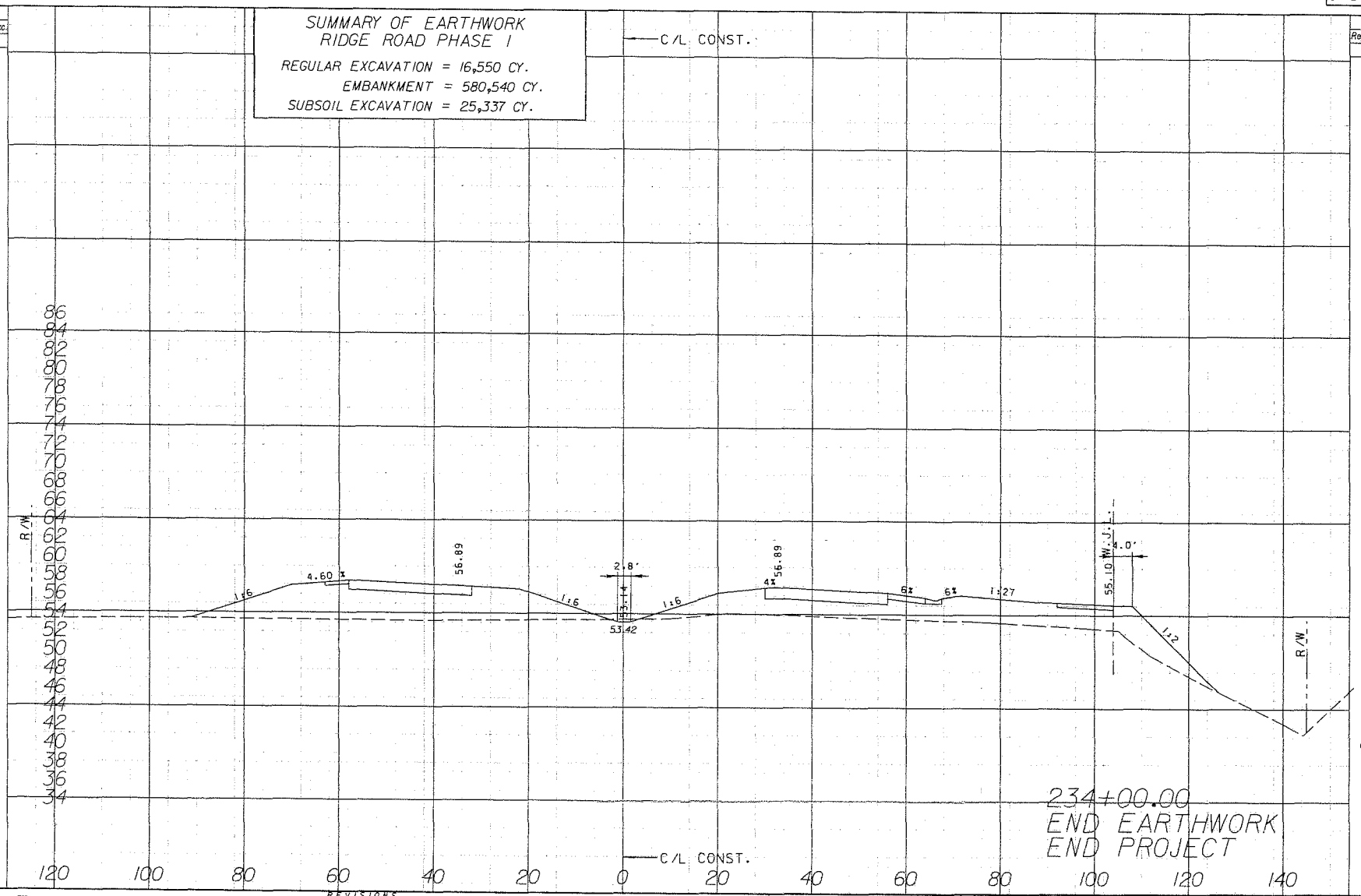
CROSS SECTION (RIDGE ROAD)

gsmith 5/30/2011 11:38:17 AM U:\9624\Plans-1\Roadway\Xsr1002.dgn

COUNTY PROJ. NO.	SHEET NO.
C 6686.20	62

SUMMARY OF EARTHWORK
RIDGE ROAD PHASE I

REGULAR EXCAVATION = 16,550 CY.
EMBANKMENT = 580,540 CY.
SUBSOIL EXCAVATION = 25,337 CY.



A-8 Regular Exc. A	A-8 Regular Exc. V	A-3, A-2-4 MATL. Regular Exc. A	A-3, A-2-4 MATL. Regular Exc. V	A-3, A-2-4 MATL. Embankment A	A-3, A-2-4 MATL. Embankment V
0	0	0	0	423	2422

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

REVISIONS

PITMAN HANTCHEL & ASSOC. INC.
ENGINEERS
8889 E. FOWLER AVENUE TAMPA FLORIDA 33617 CB# 4461
THOMAS J. MONTGOMERY P.E. NO. 39628

PASCO COUNTY

CROSS SECTION
(RIDGE ROAD)