F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

VALENCIA ROAD
WADE ROAD TO MARK ROAD

Pima County Project No. 4RTVMW
Federal Project No. STP–PPM–O(230)A

THE SEAL OF PIMA COUNTY ARIZONA

PIMA COUNTY DOT

Ramón Valadez, Chair
District 2

Ann Day
District 1

Raymond J. Carroll
District 4

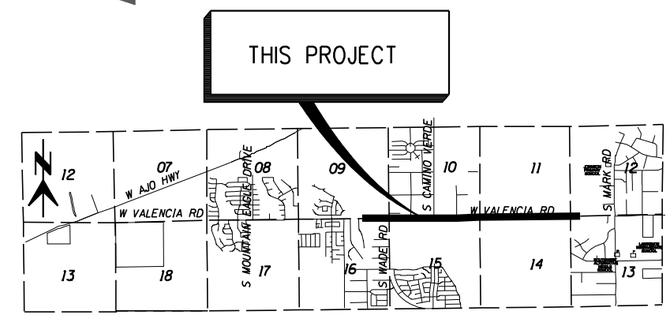
Sharon Bronson
District 3

Richard Elias
District 5

This Project is Located in Supervisor District #3 & 5

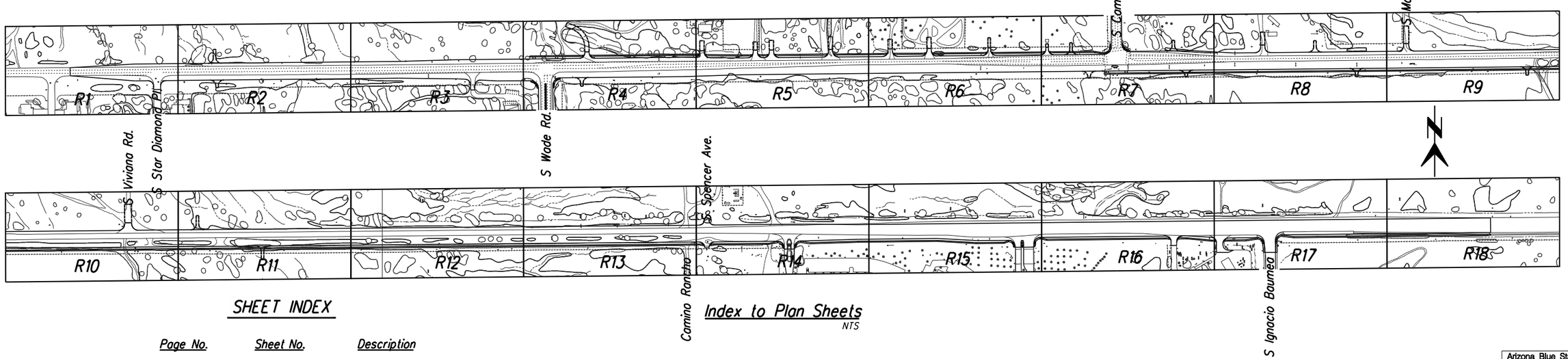
General Project Description

Construct new four-lane roadway, approximately a mile and a half in length, with raised median, sidewalk, drainage culverts, two traffic signals and landscaping. Construct the remaining new roadway, approximately one mile in length, as a five-lane roadway with sidewalk, drainage culverts and landscaping.



Location Map
NTS
Sections 9, 10, 11, 12, 13, 14, 15, & 16
T-15-S, R-12-E,
G & S R M
Pima County, Arizona

DESIGN CONCEPT REPORT
APPENDIX D
STAGE II (30%) CONSTRUCTION PLANS



Index to Plan Sheets
NTS

SHEET INDEX

Page No.	Sheet No.	Description
1	C1	Cover Sheet
2 - 3	G1 - G2	Design Sheets
4 - 8	G3 - G7	Roadway Typical Section Sheets
9 - 10	S1 - S2	Summary Sheets
11 - 23	DT1 - DT13	Special Details
24 - 34	M1 - M11	Demolition Plan Sheets
35 - 43	H1 - H9	Geometric Layout Sheets
44 - 61	R1 - R18	Roadway Plan & Profile Sheets
62 - 72	SS1 - SS11	Side Street Plan & Profile Sheets
73 - 85	D1 - D13	Culvert Plan & Profile Sheets
86 - 97	PM1 - PM12	Pavement Marking Sheets
-	-	Signing Plan Sheets
-	-	Traffic Signal Sheets
98 - 113	L1 - L16	Landscaping Sheets
114 - 129	IR1 - IR16	Irrigation Plan Sheets
130 - 148	RW1 - RW19	Right-of-Way Sheets

Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

ACCEPTED: Pima County Regional Wastewater Reclamation Department — Date

HDR
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

No.	Revisions	Engineer	Date
No.	As Built	Engineer	Date

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

Pima County
Department of Transportation
201 N. Stone Avenue Tucson, Arizona 85701
Priscilla S. Cornelio, P.E., Director

Reviewed by	Engineer	Date
Mgr. Design Engr.		
Mgr. Traffic Engr.		
Mgr. Field Engr.		
Mgr. RWRD		

Approved: _____ 20__

Priscilla S. Cornelio, P.E.

Project No. 4RTVMW

Sheet No. C1 of C1

Page No. 1 of 148

TRACS No. SS975 01C

Valencia Rd.: Wade Road to Mark Road No. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\00C-01.dgn
Model: 22x34

Printed By: aledesma Date: 09\07\11 10:57:06 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

GENERAL NOTES

1. Construction shall conform to the Pima County/City of Tucson Standard Specifications and Details for Public Improvements, 2003 Edition except as modified by the Special Provisions. In addition, the Contractor shall conform to the May 2007 ADOT Construction Drawing (C-Series) and the June 1992 ADOT Standard Drawing (B-Series) plus current revisions to either series.

2. Utility locations shown on plans were compiled based on the best information available to the Department, utility locations are not intended to be exact or complete. Prior to commencing construction the Contractor shall verify the location of all utilities with the appropriate organizations. Contact "Blue Stake" at 1-800-782-5348, two full working days prior to beginning construction (Saturdays and Sundays are not considered working days).

3. Construction Zone Traffic Control shall conform to the requirements of the "Manual on Uniform Traffic Control Devices" 2009 Edition, the Project Plans, and the Special Provisions. Most elements of work will be included in a Lump Sum Pay Item. However, see Bid Schedule and Special Provisions for specific information.

4. Right-of-Way Encroachments shall be removed only by order of Pima County, unless otherwise noted.

5. Removal of all Cacti and Native Plants shall be in accordance with the provisions of the "Arizona Native Plant Laws" A.R.S. Chapter 7.

6. Contractor shall comply with all applicable Occupational Safety and Health Administration Regulations, in particular shoring of trenches and excavations.

7. Contractor shall adjust all Water Meters, Valve Boxes, Storm Drain Manholes, and Sewer Manholes and Clean Outs to Finish Grade. This work shall be considered incidental to the other items of work, except when the Bidding Schedule contains specific items on a unit basis.

8. Contractor shall obtain all permits required by all governmental agencies with the exception that Pima County must jointly obtain the NPDES Permit and file the NOI and NOT. For work beyond the Scope of the Project Limits, Plans or Specifications, the Contractor shall obtain a separate Floodplain and/or Grading Permit prior to commencing such work.

9. Design Speed for this Project is 50 mph.

10. The Contractor shall install all Permanent Pavement Markings and Permanent Traffic Control Signs.

11. Soils Information will be made available to prospective bidders in the Project Special Provisions. Soil Information so provided shall be for information purpose only, and is not to be considered part of the contract documents. This information was developed as accurately as possible by the methods used. Pima County accepts no responsibility for any conditions encountered which vary from the information provided.

12. Existing conditions shown on plan sheets reflect conditions as of January, 2011.

13. The Contractor shall maintain access to all driveways, alleys, and mailboxes during construction. The Contractor will not restrict Emergency Vehicles, U.S. Postal Service, Solid Waste Collections, and/or access to the adjacent properties, except as approved by the Engineer.

14. It shall be the Contractor's responsibility to furnish, haul, and apply all water required for compaction, and for the control of dust from construction activity.

15. The Contractor shall be responsible for the care, maintenance, repair or replacement of existing improvements in the work area which have been removed or damaged during the course of construction. All repair, replacement, or clean up shall be done to the satisfaction of the owner.

16. Omissions or conflicts between various elements of the drawings, notes, and details shall be brought to the attention of the Engineer and resolved before proceeding with the work.

17. Any revisions made to these plans must be approved by Pima County Department of Transportation Field Engineering Department, 740-2661, prior to construction.

18. A copy of these plans shall be kept in an easily accessible location on the site at all times during construction.

19. Any excess excavated material shall become the property of the Contractor, and shall be removed from project site by the Contractor.

20. All stationing shown on the plans and profiles is along the construction centerline unless otherwise noted.

21. All survey monuments shall be established by a Land Surveyor registered in the State of Arizona, and a Record of Survey shall be provided.

22. Dimensions shall not be scaled from the drawings.

23. Existing utilities include, but may not be limited to, overhead electric, telephone and television; and underground electric, telephone, television, water, sewer and gas. These lines shall be moved by others unless otherwise noted and shown in these plans.

SURVEY CONTROL

HORIZONTAL CONTROL:
The horizontal control for this project is based on existing survey control points as provided by Pima County Survey and NGS. Pima County Geodetic Control Point "HJ04" and NGS Point "NN 100".

The grid coordinates used for "HJ04" are as follows:
NAD 83(HARN92) NORTHING (Y) = 413,459.642
NAD 83(HARN92) EASTING (X) = 967,556.895

The grid coordinates used for "NN 100" are as follows:
NAD 83(HARN92) NORTHING (Y) = 407,453.7090
NAD 83(HARN92) EASTING (X) = 916,548.7450

The Published Combined Factor for "HJ04" = 0.9998575910

Surface Coordinates are derived by dividing the grid coordinates by 0.9998575910

VERTICAL CONTROL:
The vertical control for this project is based on Pima County benchmark designation MBP 78.

Based on NAVD 88 DATUM having an elevation of 2505.59 feet.

Station Mark is 2" BRASS DISK stamped PCHD 10/11/15/14.

Located 14 Feet South of the centerline of Valencia Road near Vivianna Road.

DESIGN DATA

	2010 ADT	2030 ADT
Valencia Road		
-Wade Road to Camino Verde	14,800	28,400
-Camino Verde to Viviana Road	12,400	26,100
-Viviana Road to Mark Road	17,300	36,400

DESIGN VEHICLE:	Left & Right Turns	U-Turns
Major Intersection:	WB-50	Passenger Car
Minor Intersection:	Bus	Passenger Car
Driveway:	Passenger Car	N/A

LENGTH OF PROJECT

Sta. 231+00.00 to Sta. 368+80.00 = 13,780.00'
= 2.61 Miles

SANITARY SEWER NOTES

1. Immediately report any release of sewage, and/or any damage to, or the dropping of debris into, the public sanitary sewage conveyance system to either PCRWRD Field Engineering (740-2651) or PCRWRD Field Operations (443-6500). On weekends, holidays, or between 5:00 PM and 8:00 AM, immediately call Pima County Sheriff's Communication Center at 295-4595 or 741-4900 and request a PCRWRD representative to be dispatched to the site. Take immediate action to prevent or contain the sanitary sewage overflow (SSO) from the sewer system. The contractor shall be responsible for all costs to repair the system, for all expenses to mitigate the release and to disinfect the release areas, and for any regulatory penalties levied on PCRWRD because the SSO entered a natural or constructed storm water drainage system. The contractor shall repair all damage as directed and approved by PCRWRD.

2. City of Tucson/Pima County Standard Detail WWM 106 Applies to this Project.

3. All design standards, materials and workmanship for public sanitary sewers are to be in accordance with the latest edition of the Pima County Regional Wastewater Reclamation Department's (PCRWRD) Manual of Engineering Standards and Procedures, and the Pima County/City of Tucson Standard Details and Specifications for Public Improvements. Said manuals are on file at the Pima County Regional Wastewater Reclamation Department office: 201 N. Stone Avenue, 8th Floor.

4. The contractor shall verify locations and elevations of all existing utilities prior to any construction. Call "Blue Stake" at 1-800-782-5348, a minimum of two (2) full working days prior to excavating.

5. Sewer construction shall not commence until: (A) Contractor has obtained a public sewer construction permit from Pima County Regional Wastewater Reclamation (740-6369). (B) A pre-construction meeting with the assigned Pima County project inspector is scheduled; at least three (3) full working days prior to the start of sewer construction.

6. It is the contractors responsibility to adjust or reconstruct all sanitary sewer manhole structures to finished grade. All ring and cover adjustments are to be in accordance with City of Tucson/Pima County Standard Details for Public Improvements WWM 304, WWM 305 or WWM 306 (as applicable) and WWM 307. While adjusting the manhole to finished grade, it is the contractor's responsibility to ensure that rings and covers are cleaned of any and all attached materials (asphalt, concrete, etc.) and ensure that any vent holes are open and clear of obstructions. If the frame and cover are damaged and cannot be completely cleaned, then a new frame and cover is to be put into place, and cost associated with these actions are the responsibility of the contractor. Refer to details WWM 213.0-214.3 for requirements for rings and covers.

7. Contractor shall maintain access to all sanitary sewer manhole structures at all times.

DESIGN SHEET

Scales	Horiz. N/A Vert. N/A	Sheet G1 of G7	Page 2 of 148

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	EB	04/2011
Drawn	EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

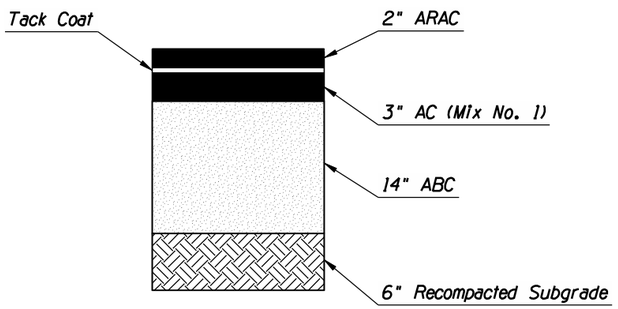
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

TRACS No. SS975 01C

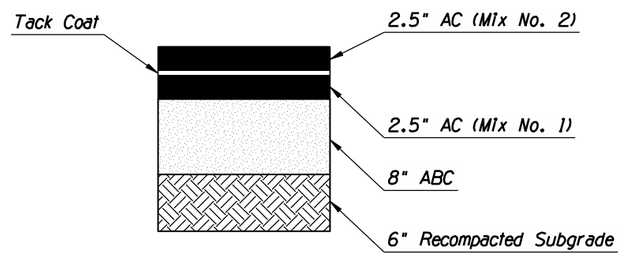
Pentable: 152226_PLOTDRDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\14C-01.dgn
Model: B14C01
Printed By: aledesma Date: 09\07\11 10:57:18 AM
Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



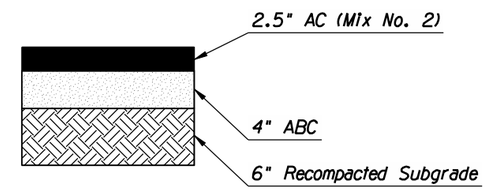
PAVEMENT STRUCTURE NO. 1

Valencia Road NTS



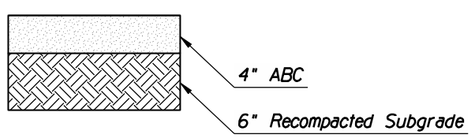
PAVEMENT STRUCTURE NO. 2

Wade Road, Camino Verde, Ignacio Baumea, East & West Casino Entrance NTS



PAVEMENT STRUCTURE NO. 3

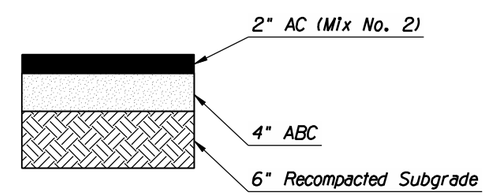
Star Diamond Place, Mardick Avenue, Viviana Avenue NTS



PAVEMENT STRUCTURE NO. 4

Unpaved Driveways NTS

EARTHWORK QUANTITIES	
Roadway Excavation	C.Y.
Shrink (10%)	C.Y.
Drainage Excavation	C.Y.
Shrink (10%)	C.Y.
Pipe Excavation	C.Y.
Shrink (10%)	C.Y.
Structural Excavation	C.Y.
Shrink (10%)	C.Y.
Roadway Embankment	C.Y.
Berms & Dikes	C.Y.
Pipe Backfill	C.Y.
Structure Backfill	C.Y.
Borrow (In-Place)	C.Y.



PAVEMENT STRUCTURE NO. 5

Paved Driveways NTS

DESIGN SHEET

Scales	Horiz. N/A Vert. N/A	Sheet G2 of G7	Page 3 of 148

TRACS No. SS975 01C

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

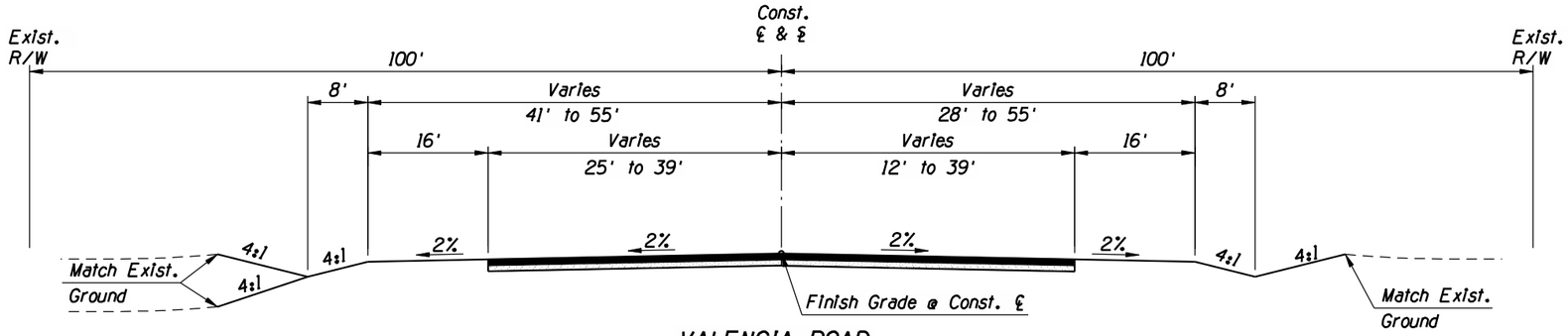
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

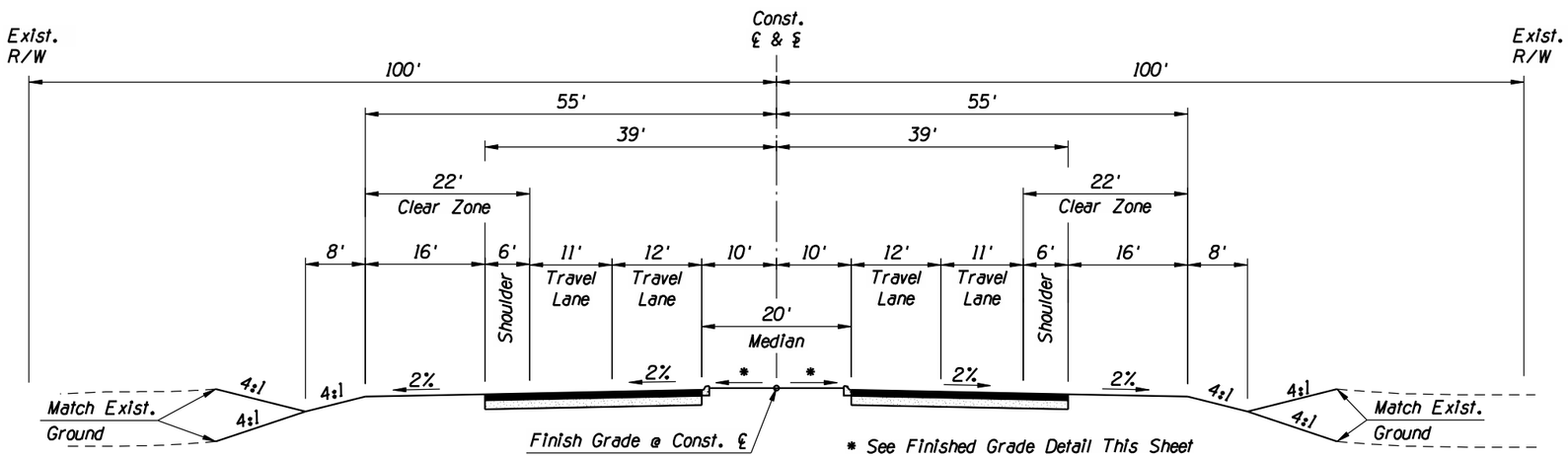
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



VALENCIA ROAD
Sta. 231+00.00 to Sta. 234+00.00



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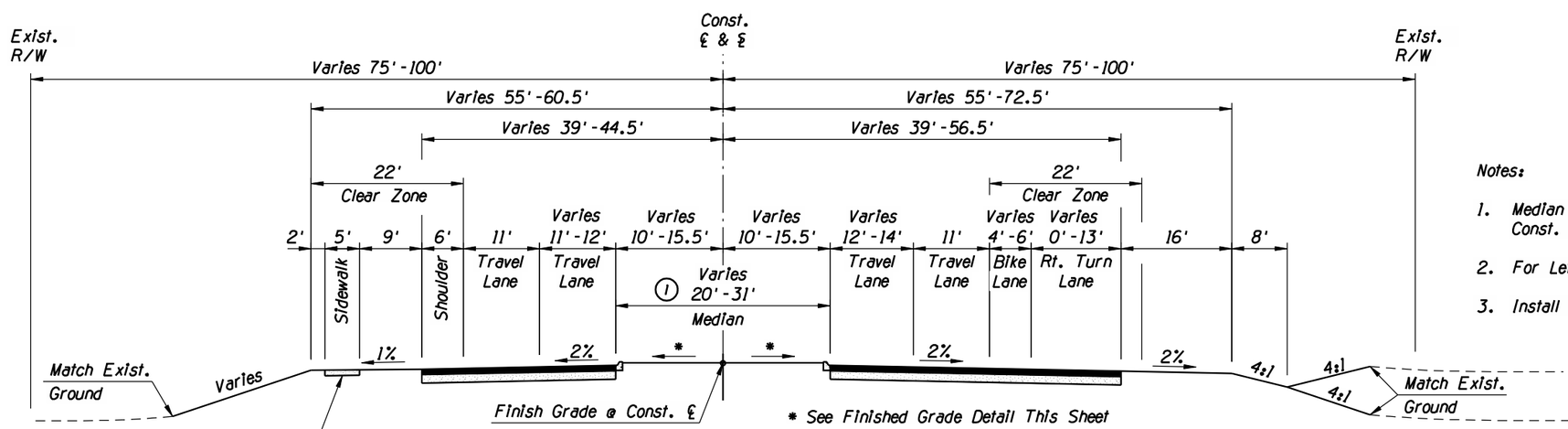
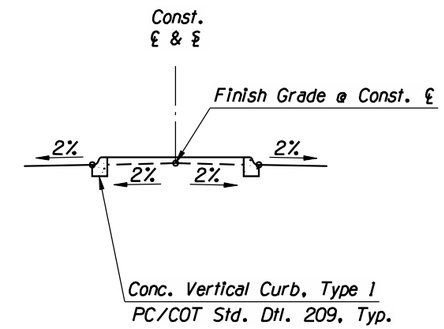


VALENCIA ROAD
Sta. 246+23.03 to Sta. 262+14.06



VALENCIA ROAD
Finished Grade Detail

FILL SLOPE EXCEPTION TABLE		
Station	Side	Slope Control
260+50 to 261+30	Left	Varies 4:1 to 3.2:1, toe of slope to match existing ground at right-of-way.

Notes:

1. Median varies 10' to 15.5' from Valencia Const. ℄ between Sta. 246+23 to Sta. 262+14.
2. For Left Turn Bay Details See Special Detail F.
3. Install ground-in rumble strips per Detail I.

TYPICAL SECTIONS

Scales	Horiz. 1" = NA Vert. 1" = NA	Sheet G3 of G7	Page 4 of 148

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	EB	04/2011
Drawn	EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

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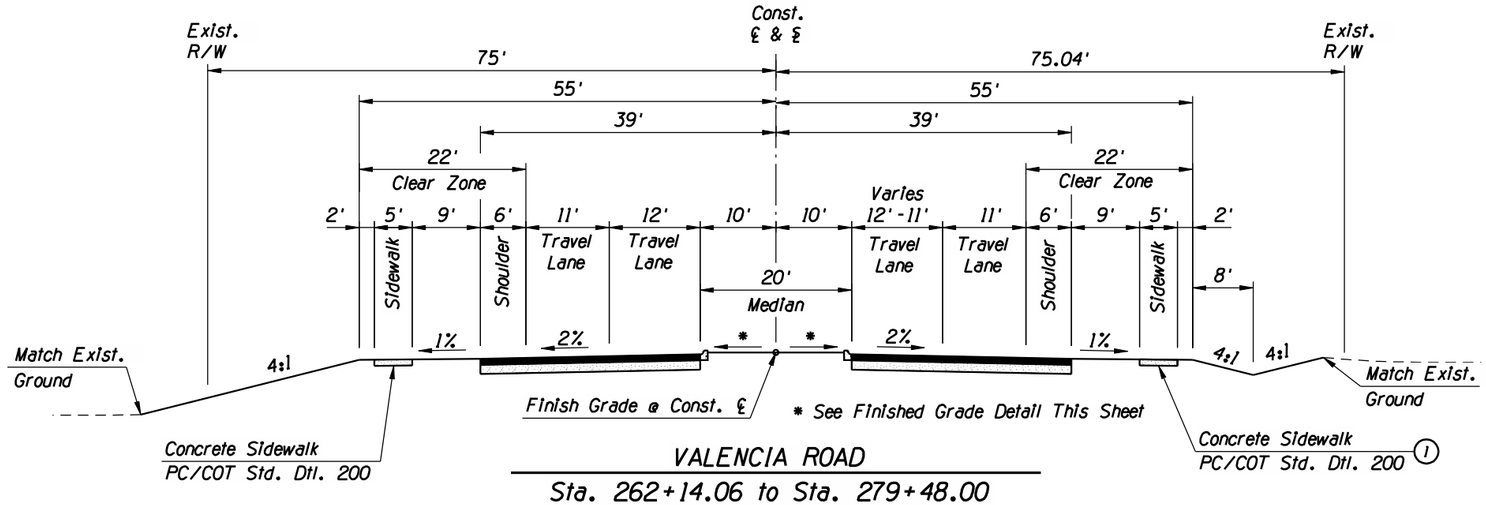
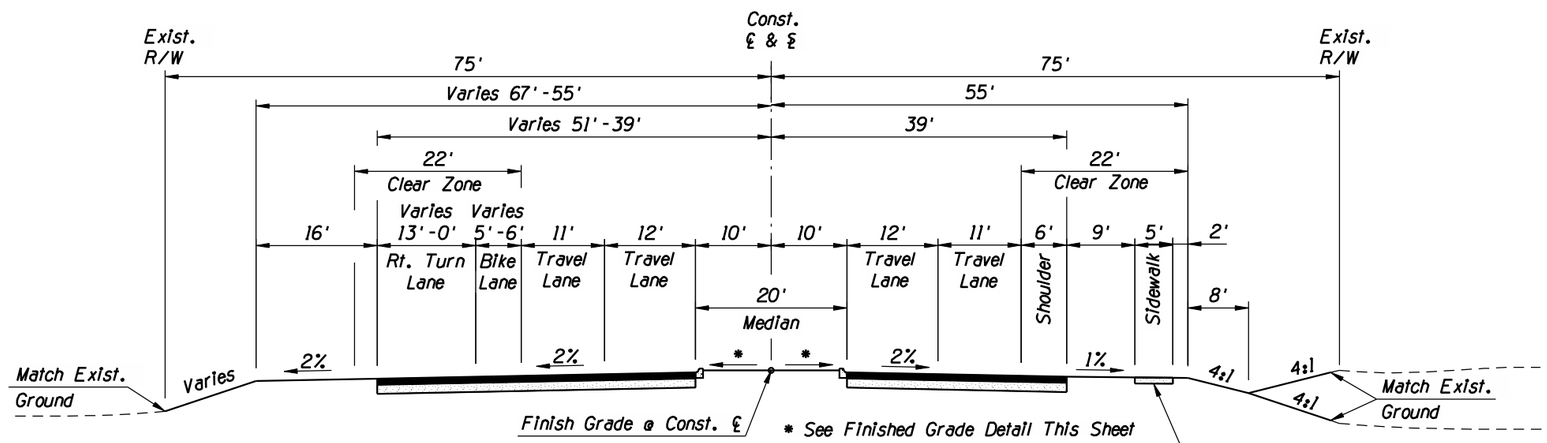
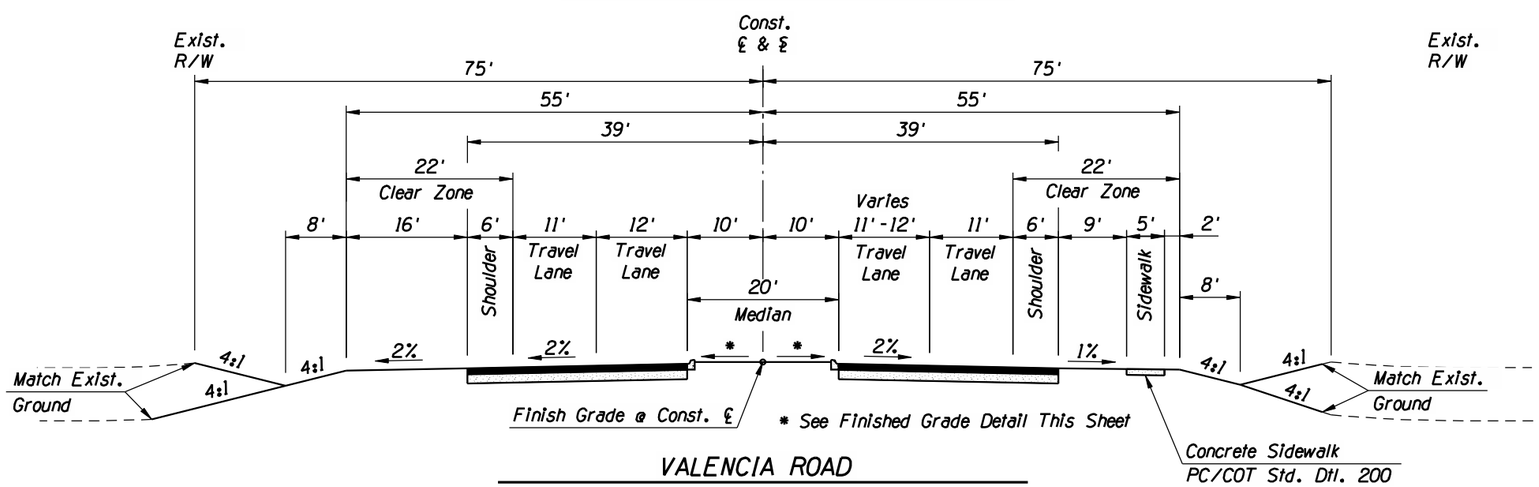
		0000 PM PPM			



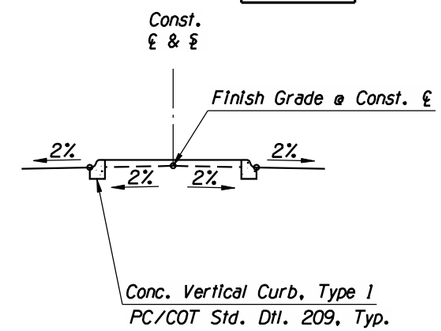
VALENCIA ROAD
Sta. 262+14.06 to Sta. 279+48.00



VALENCIA ROAD
Sta. 279+48.00 to Sta. 284+88.75



VALENCIA ROAD
Sta. 284+88.75 to Sta. 332+48.70



VALENCIA ROAD
Finished Grade Detail

FILL SLOPE EXCEPTION TABLE		
Station	Side	Slope Control
282+80 to 284+00	Left	Varies 4:1 to 2.5:1, toe of slope to match existing ground at right-of-way.

Note:

1. Sidewalk is on North side from Sta. 252+30 to Sta. 280+10. Sidewalk is on South side from Sta. 278+90 to Sta. 332+60.
2. For Left Turn Bay Details See Special Detail F.
3. Install ground-in rumble strips per Detail 1.

TYPICAL SECTIONS

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	ABL	04/2011
Drawn	ABL	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = NA	Sheet G4 of G7	Page 5 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\15C-01.dgn
Model: 15C-02
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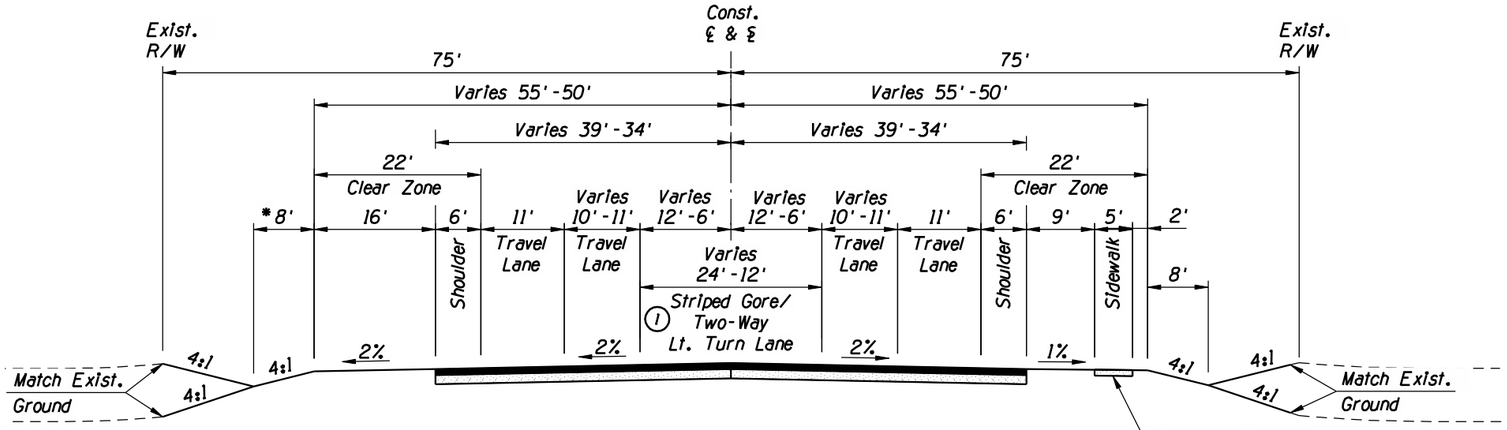
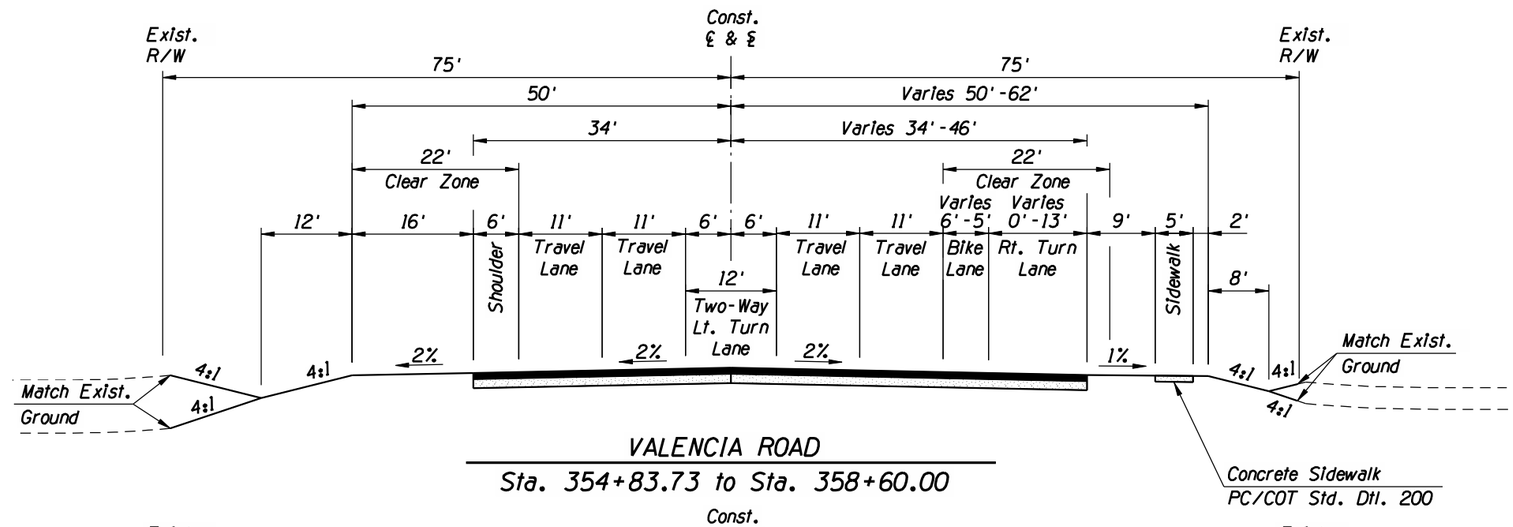
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

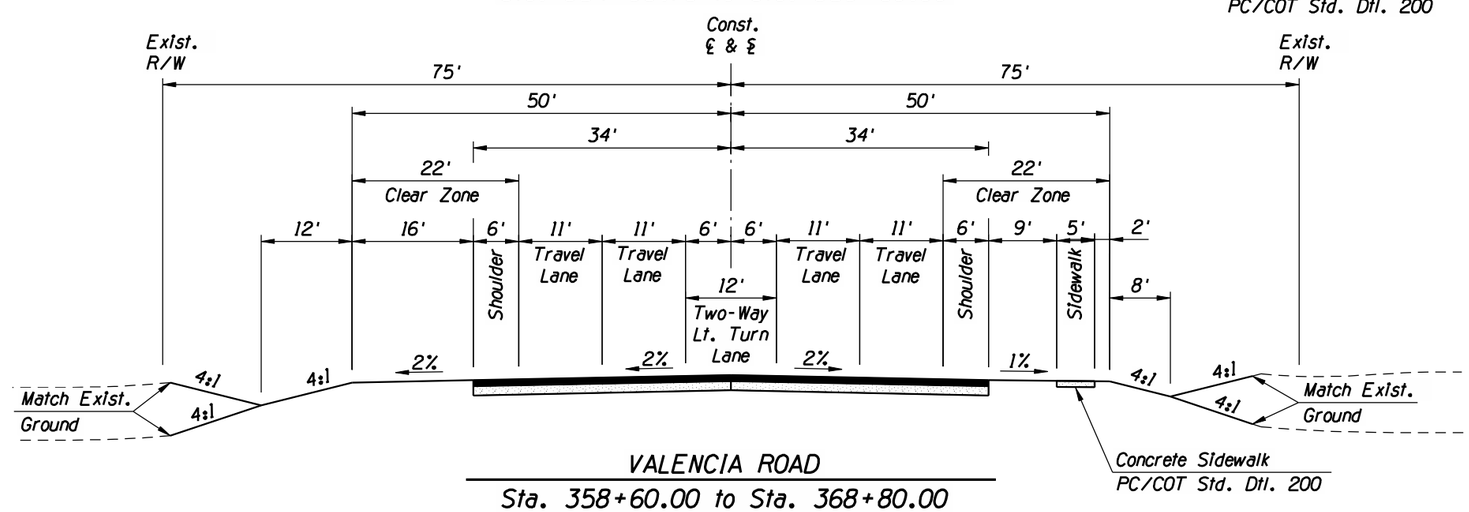


* 12' From Station 347+00 to 354+83.73

VALENCIA ROAD
Sta. 332+48.70 to Sta. 354+83.73



VALENCIA ROAD
Sta. 354+83.73 to Sta. 358+60.00



VALENCIA ROAD
Sta. 358+60.00 to Sta. 368+80.00

Note:

1. Two-Way Left Turn Lane from Sta. 335+19.83 to Sta. 368+80.00. Striped Gore from Sta. 332+48.68 to Sta. 335+19.83. Gore width varies 12' to 6' from Valencia Const. ℄.
2. Install ground-in rumble strips per Detail 1.

TYPICAL SECTIONS

Scales	Horiz. 1" = NA	Sheet G5 of G7	Page 6 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	ABL	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

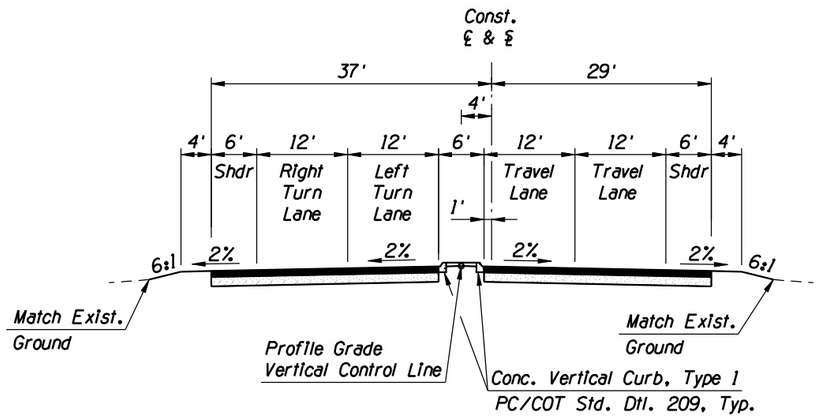
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_VBhalf_BkW_PDF.plt

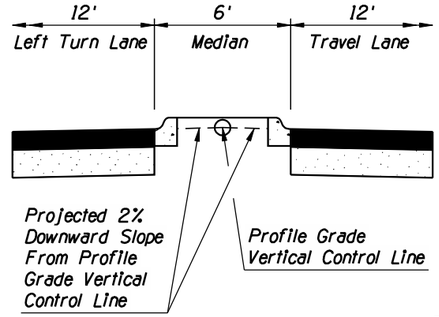
Project ID: 0000000000152226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



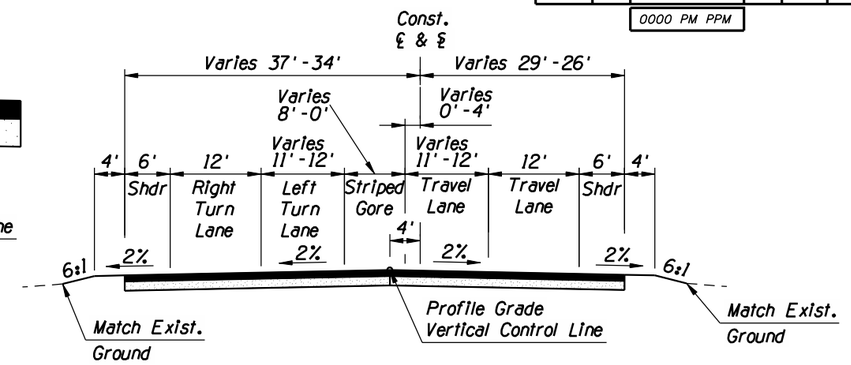
WADE ROAD

ECR to Sta. 12+38.00



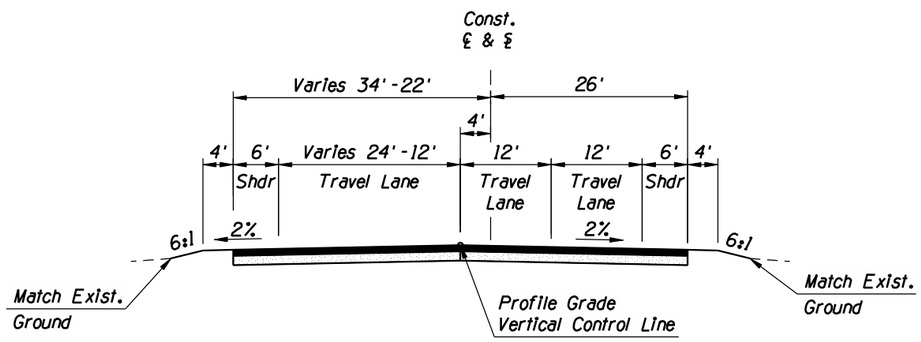
MEDIAN DETAIL

NTS



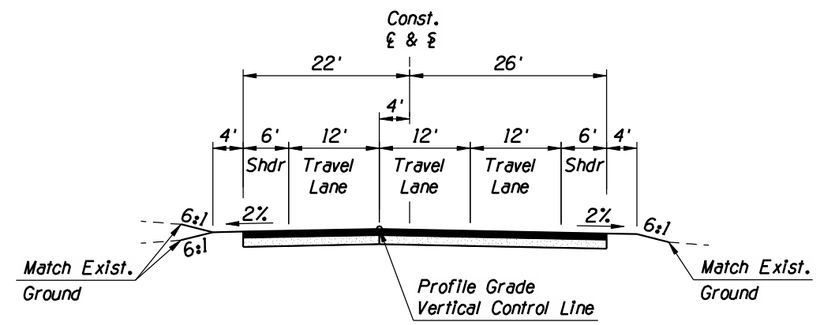
WADE ROAD

Sta. 12+38.00 to Sta. 13+88.00



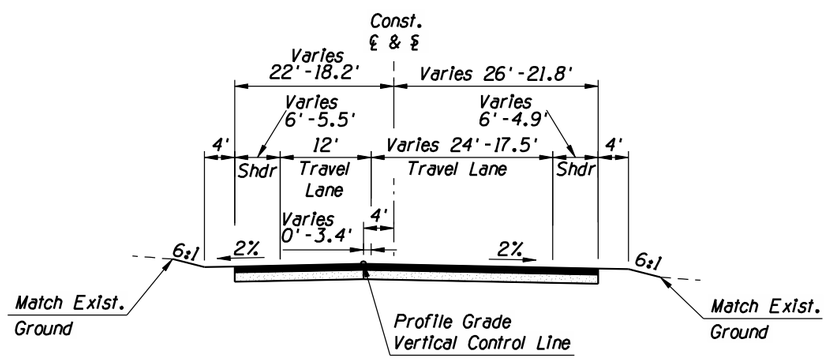
WADE ROAD

Sta. 13+88.00 to Sta. 16+69.00



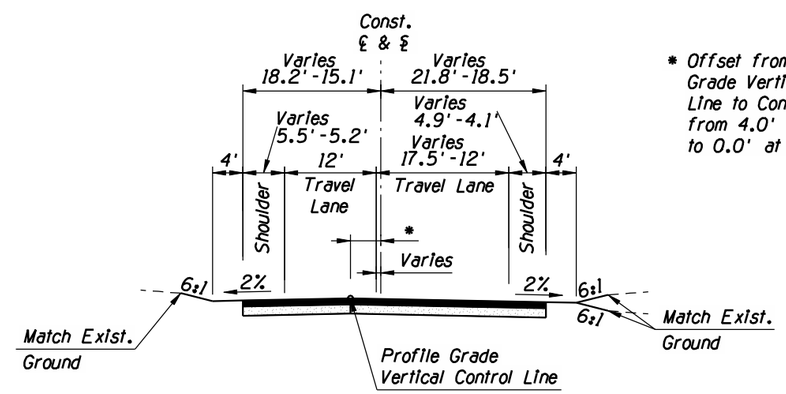
WADE ROAD

Sta. 16+69.00 to Sta. 22+01.00



WADE ROAD

Sta. 22+01.00 to Sta. 25+00.00



* Offset from Profile Grade Vertical Control Line to Const. ℄ Varies from 4.0' at Sta. 25+00.00 to 0.0' at Sta. 27+41.00

WADE ROAD

Sta. 25+00.00 to Sta. 27+41.00

TYPICAL SECTIONS

No.	Revision Description	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Engineer

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

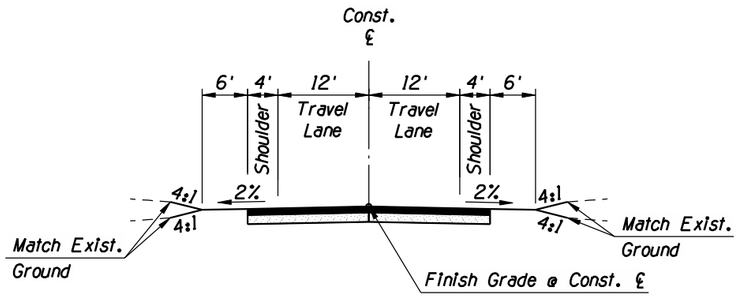
Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet G6 of G7	Page 7 of 148

TRACS No. SS975 01C

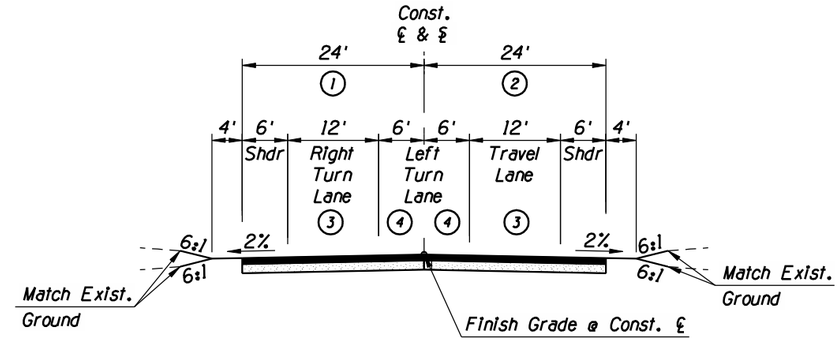
Pentable: 152226_PL01ORDR.TBL
Plotdriver: 152226_VBhall_B&W_PDF.plt

Project ID: 0000000015226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



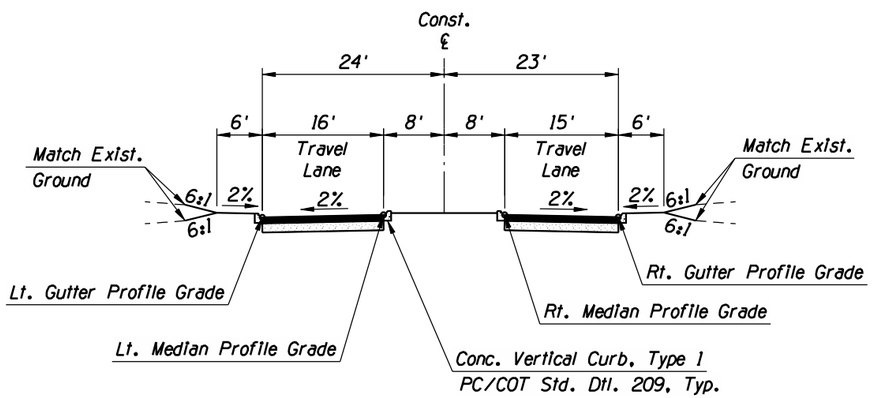
STAR DIAMOND PLACE AND VIVIANA ROAD



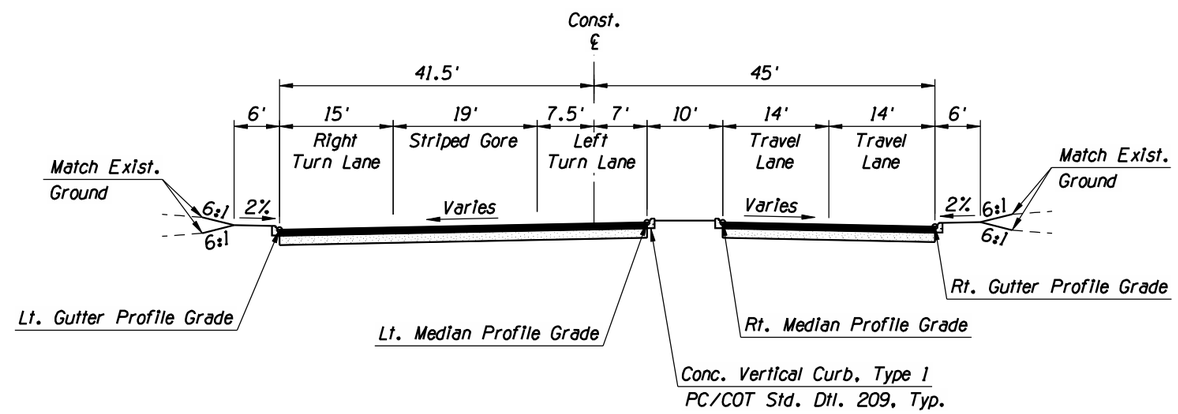
CAMINO VERDE

Note:

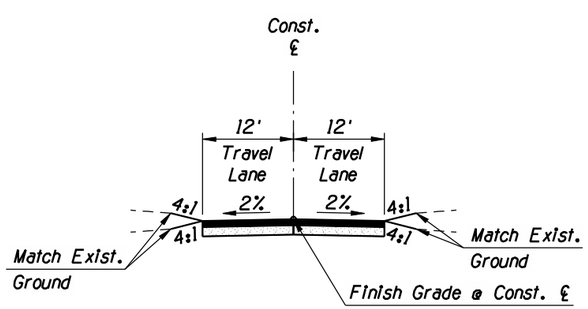
1. Width varies 15' to 24' from Sta. 1+63 to Sta. 5+68.
2. Width is 19' from Sta. 1+63 to Sta. 3+73. Width varies 19' to 24' from Sta. 3+73 to Sta. 5+68.
3. Width varies from 11' to 12' from Sta. 1+63 to Sta. 5+68.
4. Width varies from 0' to 6' from Sta. 1+63 to Sta. 5+68.



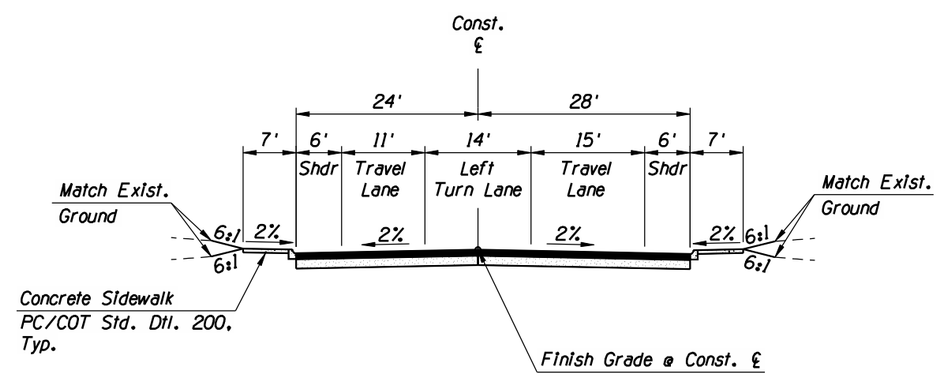
WEST CASINO ENTRANCE



EAST CASINO ENTRANCE



MARDICK AVENUE



IGNACIO BAUMEA

TYPICAL SECTIONS

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet G7 of G7	Page 8 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornello, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

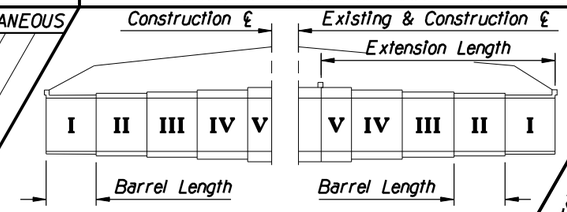
STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\15C-01.dgn
Model: 15C-05
Printed By: aledesma Date: 09\07\11 10:57:36 AM
Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Plan Reference Number	Structure Number	New	Extend	Number of Barrels	Barrel Span (0.0)	Barrel Height (0.0)	Culvert Length (0.0)	Skew (Degree) (0)	B-01.10 Miscellaneous Details	B-01.11 Extension Details	◪ Standard or Detail	▲ Location	Inlet Wings	Outlet Wings	◪ Standard or Detail	Apron	◪ Standard or Detail	Scour/Bank Protection	◪ Standard or Detail	Energy Dissipators	◪ Standard or Detail	Linear Feet (0.0) ▲ Left of ℄ I	II	III	IV	V	▲ Right of ℄ V	IV	III	II	I	◑ Reinforcing Steel (0)	◑ Place Dowels	◑ Class S Concrete f'c=3,000 PSI	◑ Remove Str Concrete (0)	◑ Structural Excavation (0)	◑ Structure Backfill (0)	Berm Embankment (0)	Dike Embankment (0)	Drainage Excavation (0)	REMARKS
1		X		2	10	5	116	0°	X		B-02.20	Left		X	B-04.10	X	B-06.30	X	DE			58																		
Station: 237+00 Valencia Road												Right	X		B-08.10	X	DD													58										
Existing:																											Box Culvert Total													
2		X		4	10	5	143	30° Lt.	X		B-02.40	Left		X	B-04.50	X	B-06.30	X	DE			71																		
Station: 253+66 Valencia Road												Right	X		B-08.10	X	DD													72										
Existing:																											Box Culvert Total													
3		X		2	8	4	136	30° Lt.	X		B-02.20	Left		X	B-04.50	X	B-06.30	X	DE			68																		
Station: 278+40 Valencia Road												Right	X		B-08.10	X	DD													68										
Existing:																											Box Culvert Total													
4		X		3	10	4	132	20° Lt.	X		B-02.30	Left		X	B-04.50	X	B-06.30	X	DE			72																		
Station: 281+80 Valencia Road												Right	X		B-08.10	X	DD													62										
Existing:																											Box Culvert Total													
5		X		2	8	4	136	30° Lt.	X		B-02.20	Left		X	B-04.50	X	B-06.30	X	DE			68																		
Station: 289+70 Valencia Road												Right	X		B-08.10	X	DD													68										
Existing:																											Box Culvert Total													
6		X		9	10	5	164	45° Lt.	X		B-02.40	Left		X	B-04.50	X	B-06.30	X	DE			82																		
Station: 296+70 Valencia Road											B-02.50	Right	X		B-08.10	X	DD													82										
Existing:																											Box Culvert Total													
7		X		9	10	5	136	30° Lt.	X		B-02.40	Left		X	B-04.50	X	B-06.30	X	DE			68																		
Station: 310+50 Valencia Road											B-02.50	Right	X		B-08.10	X	DD													68										
Existing:																											Box Culvert Total													
																											Sheet Total													

Notes:

1. For structural excavation, structure backfill placement and measurement, See Standard Drawing B-19.50.
2. The zeroes in parentheses (0, 0.0 & 0.00) indicate the dimensional precision for that column.
3. Totals shown for the box culvert include the quantities for headwalls, wings, aprons, curbs, cut-off walls and laps at construction joints.

◪ Structures Section Standard Drawings June, 1992 (Publication No. 31-002) (English Edition)

▲ Construction / Looking Ahead

BOX CULVERT SUMMARY SHEET

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc. 5210 East Williams Circle, Suite 530 Tucson, AZ 85711-4459 (520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = NA	Sheet S1 of S2	Page 9 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8Half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTE:
THE ZEROS IN PARENTHESIS (0, 0.0 & 0.00) IN THE HEADING OF SOME OF THE COLUMNS ARE THE RECOMMENDED PRECISION OF THE VALUE TO BE ENTERED IN THE COLUMN.

NOTE:
FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWING C-13.15

NOTE:
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE.
SHADED PIPE OPTION FIELDS ARE NOT ALLOWABLE ALTERNATES.

CSP - CORRUGATED STEEL PIPE
CAP - CORRUGATED ALUMINUM PIPE
RCP - REINFORCED CONCRETE PIPE
NRCP - NON-REINFORCED CONCRETE PIPE
NRCIPCP - NON-REINFORCED CAST-IN-PLACE CONCRETE PIPE
CHDPEPP - CORRUGATED HIGH DENSTIY POLYETHYLENE PLASTIC PIPE

DESCRIPTION							CSP									CAP			RCP		NRCP	NRCIPCP	CHDPEPP	END TREATMENT																		QUANTITIES	
			In.	In.	Ft.	Degree	In.	Coating								In.						In.		Each	Catch basin, Manhole, Headwall & Junction Structure																	CUBIC YARD	
																								End Sec	Ea		Ft.					Grate	Ft.											
Station	Plan Ref No.	Controlling Fill Height Range	Size, Corrugated	Size, Smooth	Length (0)	Skew (0)	Corrugation	Wall Thickness (0.00)	Zinc	Blt. Coated Zinc	Aluminum	Blt. Coated Aluminum	Corrugation	Wall Thickness (0.00)	Uncoated	Blt. Coated	Class - Non Trench	Class - Trench	Class	Min Wall Thickness (0)	AASHTO M-294 Type C	AASHTO M-294 Type S	C-13.20 & C-13.25	C-15.75	Size, (In) Manhole	Standard or Detail	S-Single / D-Double	Location	D	L Wing (0.0)	L 18" Slotted Drn (0)	L 24" Slotted Drn (0)	Type	Elev. (0.00)	Depth	L (0.0)	Inlet Depression	Pipe Excavation	Trench Backfill	COMMENTS				
																																			In.	Ft.								
Sta. 241+82	1	1		36	135	10° Rt.										II	II							I	I																			
Sta. 258+20	2	1		36	260	60° Lt.										II	II							2																				
Sta. 254+90, Lt.	3	1	24		146	41° Rt.	A	0.064	X															4																				
Sta. 332+49, Lt.	4	1	24		29		A	0.064	X															2																				
Sheet Total																																												

FILL HEIGHT RANGE TABLE (Ft.)												
RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90
SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.													

PIPE CORRUGATION			
A	$2\frac{2}{3}$x$\frac{1}{2}$	D	6x2
B	3x1	E	3x1 or 9x$2\frac{1}{2}$
C	9x$2\frac{1}{2}$		

Notes:
1. Station shown is approximate. See pipe profiles for stationing.

PIPE SUMMARY SHEET

Scales	Horiz. 1" = NA Vert. 1" = NA	Sheet S2 of S2	Page 10 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	ABL	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

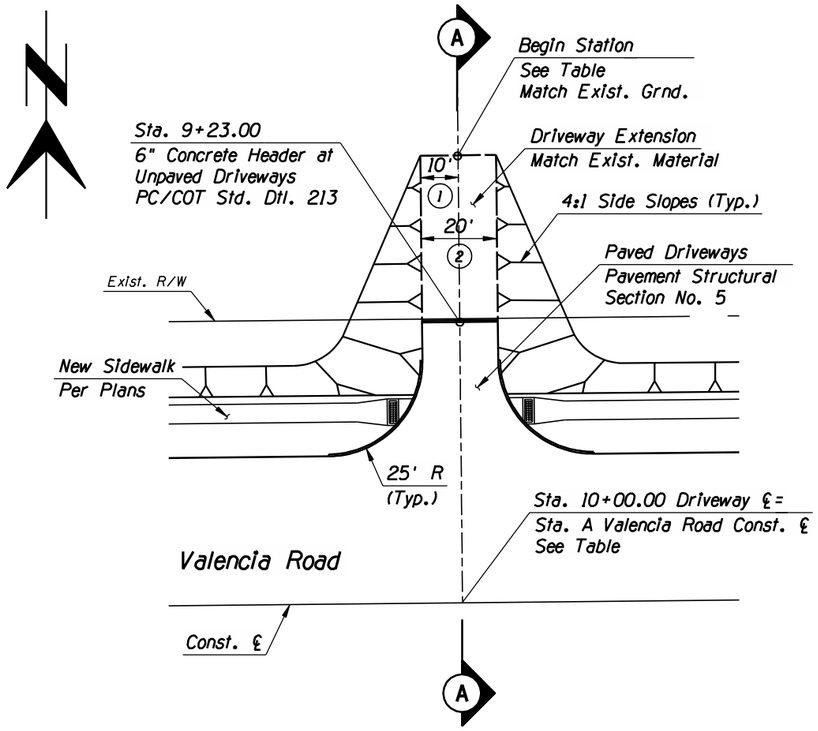
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

REV. DATE: 01-31-2002

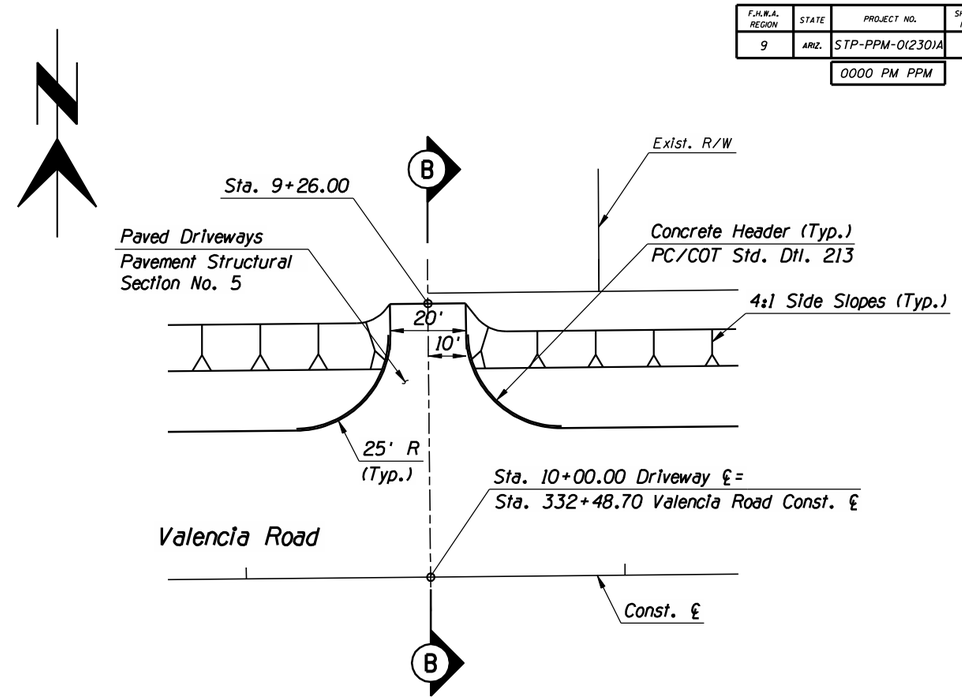
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



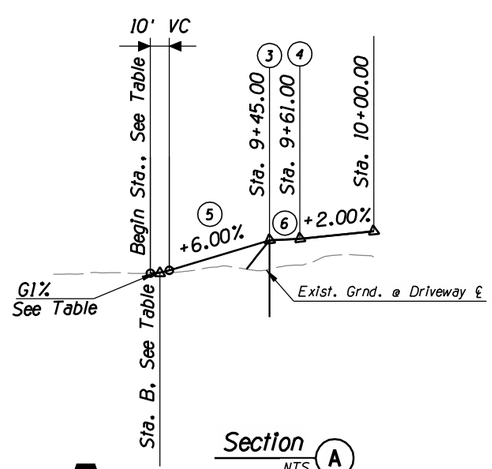
Plan View
NTS



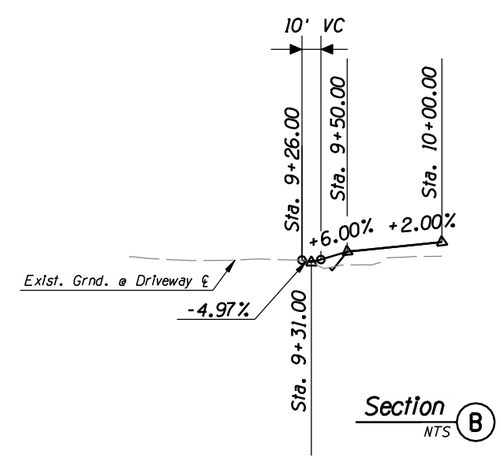
Plan View
NTS

Notes:

1. For Driveways at Sta. 273+59.00 and Sta. 276+27.00, Width is 6'.
2. For Driveways at Sta. 273+59.00 and Sta. 276+27.00, Width us 12'.
3. For Driveway at Sta. 260+28.00, Sta.=9+41.28.
4. For Driveway at Sta. 260+28.00, Sta.=9+57.28.
5. For Driveway at Sta. 276+27.00, Grade is +10.00%.
6. For Driveways at sidewalk locations, Grade is +1.00%. For all other Driveways, Grade is +2.00%.



Section A
NTS



Section B
NTS

DETAIL A

North Driveways

Station A	Begin Station	G1	Station B
Sta. 260+28.00	Sta. 8+79.00	-0.93%	Sta. 8+84.00
Sta. 262+80.00	Sta. 8+87.00	0.40%	Sta. 8+92.00
Sta. 263+50.00	Sta. 8+81.00	1.10%	Sta. 8+86.00
Sta. 266+24.00	Sta. 8+67.00	-0.06%	Sta. 8+72.00
Sta. 269+00.00	Sta. 8+71.00	-0.86%	Sta. 8+76.00
Sta. 270+80.40	Sta. 8+74.00	1.01%	Sta. 8+79.00
Sta. 273+59.00	Sta. 8+79.00	0.14%	Sta. 8+84.00
Sta. 276+27.00	Sta. 9+10.00	0.82%	Sta. 9+15.00
Sta. 286+26.00	Sta. 8+66.00	0.14%	Sta. 8+71.00
Sta. 332+48.70	Sta. 9+28.00	-6.77%	Sta. 9+33.00

SPECIAL DETAILS

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	EB	04/2011
Drawn	EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

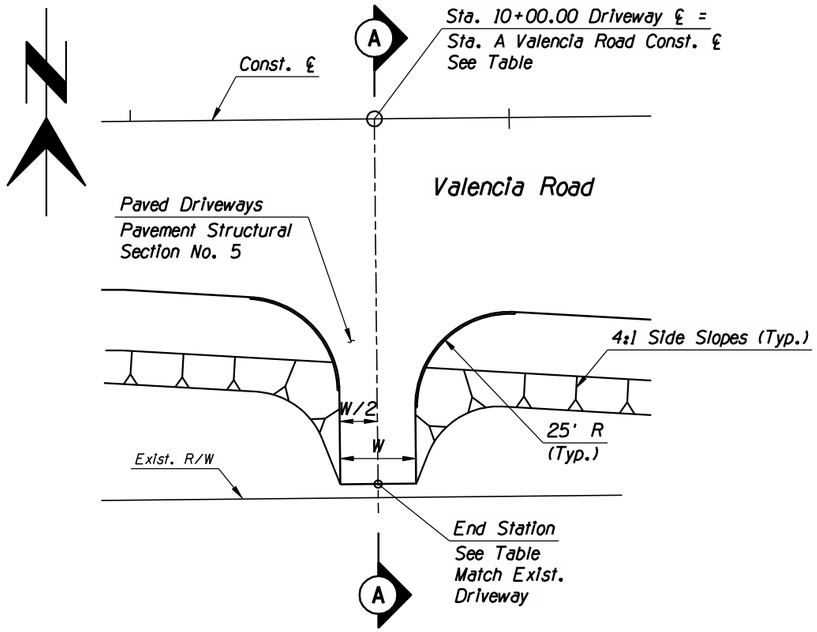
Scales	Horiz. 1"=NA	Sheet DT1 of DT13	Page 11 of 148
	Vert. 1"=NA		

TRACS No. SS975 01C

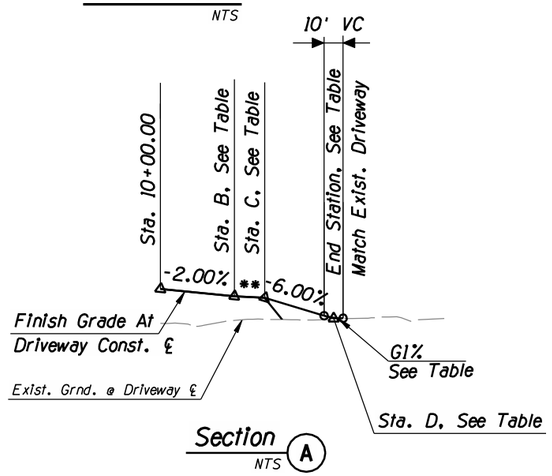
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000015222 6
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Plan View
NTS



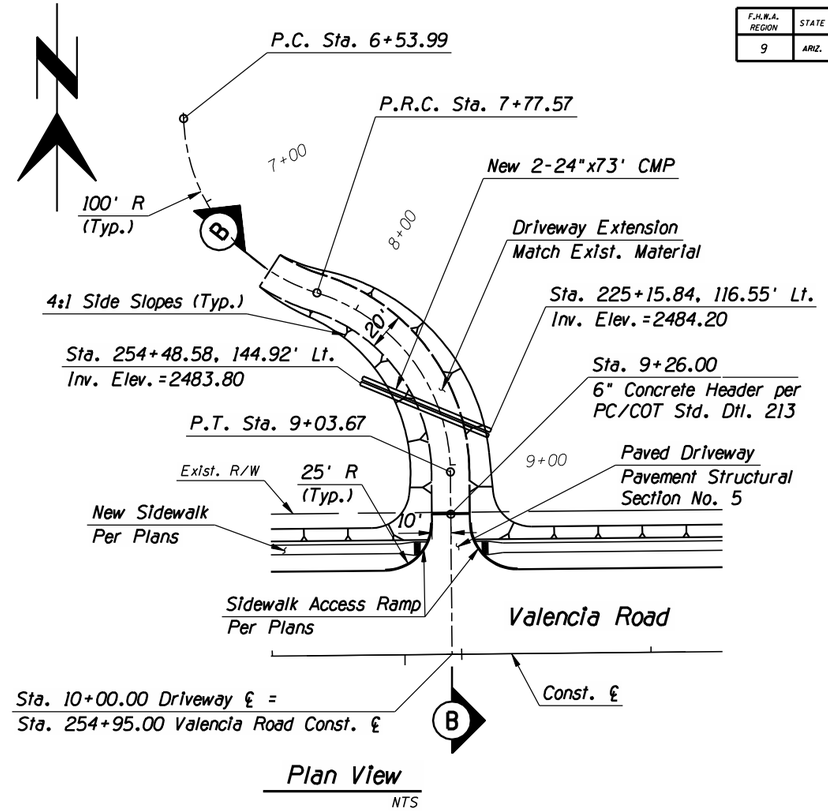
Section (A)
NTS

Station A	W	Station B	Station C	Station D	G1	End Station
Sta. 249+64.64	20'	Sta. 9+51.00	Sta. 10+55.00	Sta. 10+91.00	0.73%	Sta. 10+96.00
Sta. 332+48.70	20'	Sta. 9+61.00	Sta. 10+55.00	Sta. 10+61.00	5.02%	Sta. 10+66.00
Sta. 354+12.36	26'	Sta. 9+66.00	Sta. 10+50.00	Sta. 10+73.00	4.22%	Sta. 10+78.00
Sta. 356+24.39	30'	Sta. 9+55.75	Sta. 10+62.00	Sta. 11+08.00	-3.95%	Sta. 11+13.00

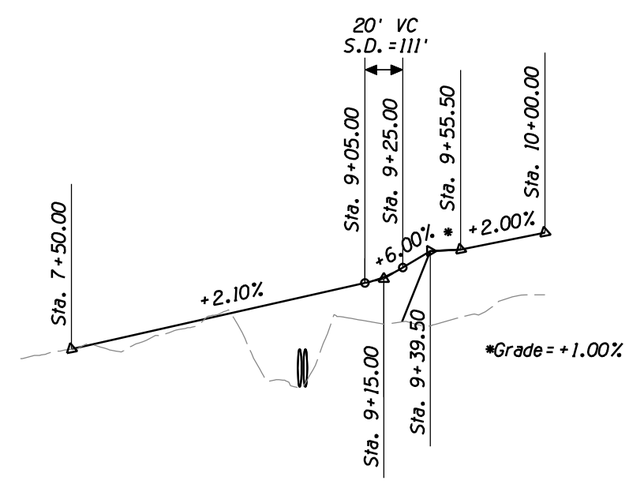
**For Driveways at sidewalk locations, Grade is -1.00%. For all other Driveways, Grade is -2.00%.

DETAIL B

South Driveways



Plan View
NTS



Section (B)
NTS

DETAIL C

Sta. 254+50 Valencia Driveway

SPECIAL DETAILS

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	EB	04/2011
Drawn	EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

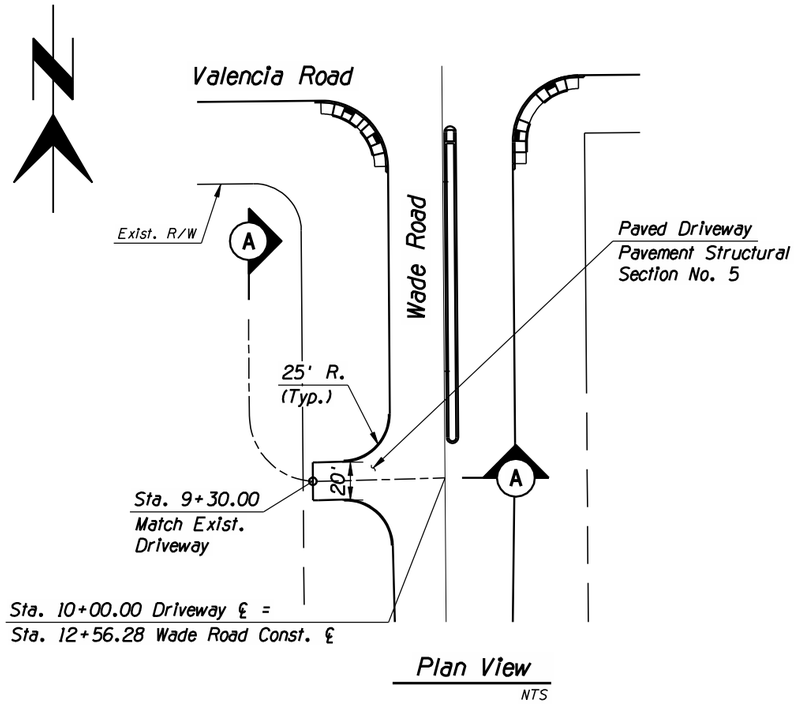
Scales	Horiz. 1"=NA	Sheet DT2 of DT13	Page 12 of 148
	Vert. 1"=NA		

TRACS No. SS975 01C

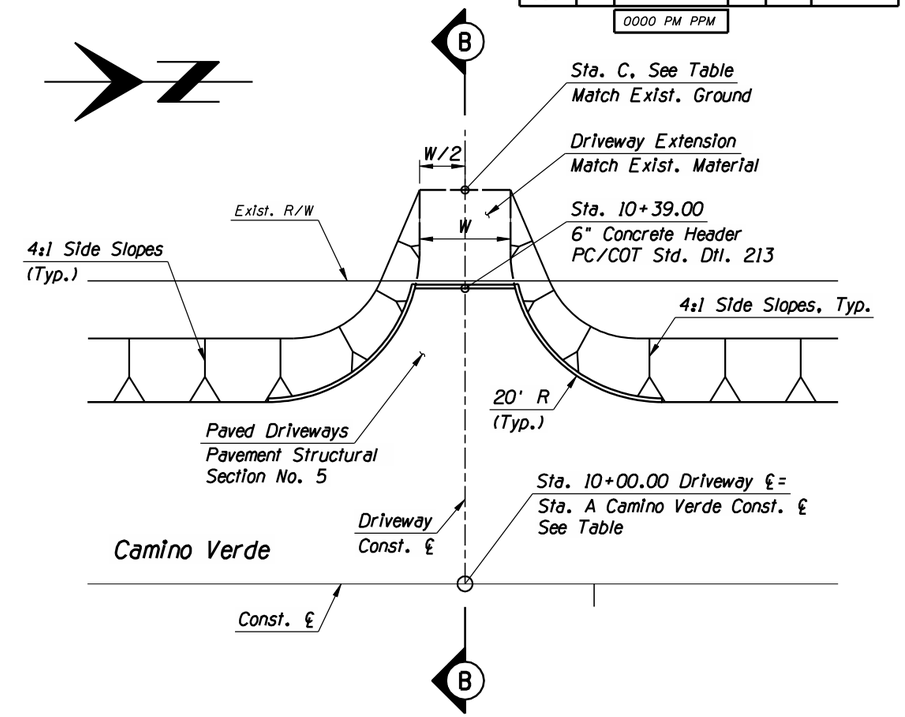
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

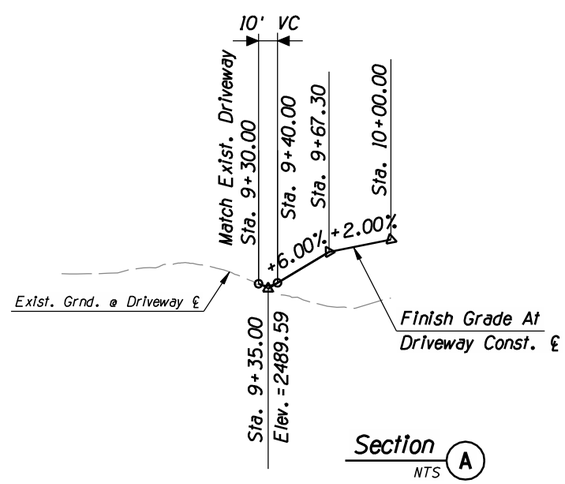
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



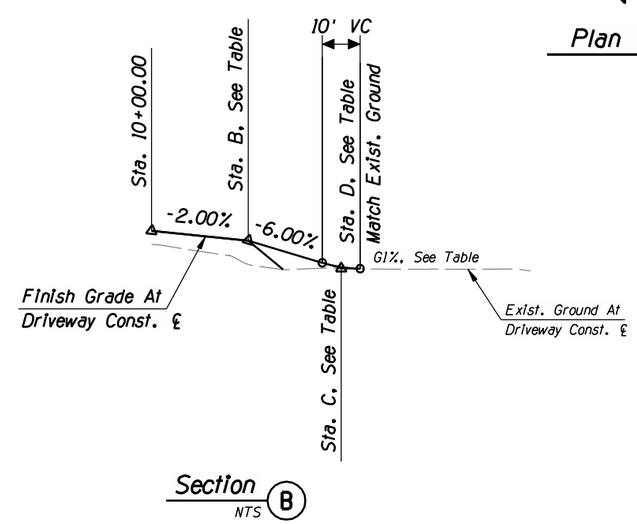
Plan View
NTS



Plan View
NTS



Section A
NTS



Section B
NTS

DETAIL D

Sta. 12+56.28 Wade Road Driveway

Station A	Station B	Station C	G1	Station D	W
Sta. 2+32.00	Sta. 10+23.00	Sta. 10+52.00	-0.68%	Sta. 10+57.00	12.00'
Sta. 4+70.00	Sta. 10+25.49	Sta. 10+50.00	0.86%	Sta. 10+55.00	12.00'
Sta. 5+81.00	Sta. 10+28.00	Sta. 10+46.00	-0.15%	Sta. 10+51.00	10.00'
Sta. 7+17.00	Sta. 10+28.00	Sta. 10+47.00	-0.15%	Sta. 10+52.00	12.00'

DETAIL E

Camino Verde Driveways

SPECIAL DETAILS

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

	Designed	JMF	04/2011
	Drawn	JMF	04/2011
	Checked	RDB	04/2011
	Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
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OR RECORDING

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5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = NA	Sheet DT3 of DT13	Page 13 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Project ID: 0000000015226
Client Number: 012145

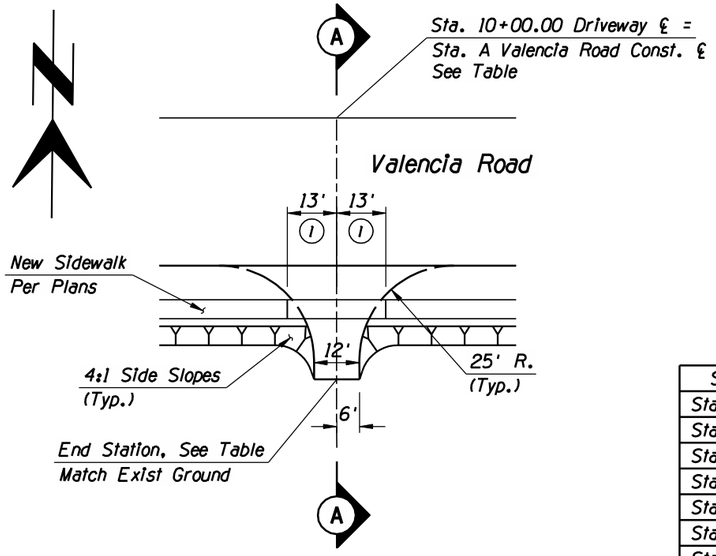
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\17C-01.dgn
Model: 17C-03

Printed By: aledesma Date: 09\07\11 10:57:53 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

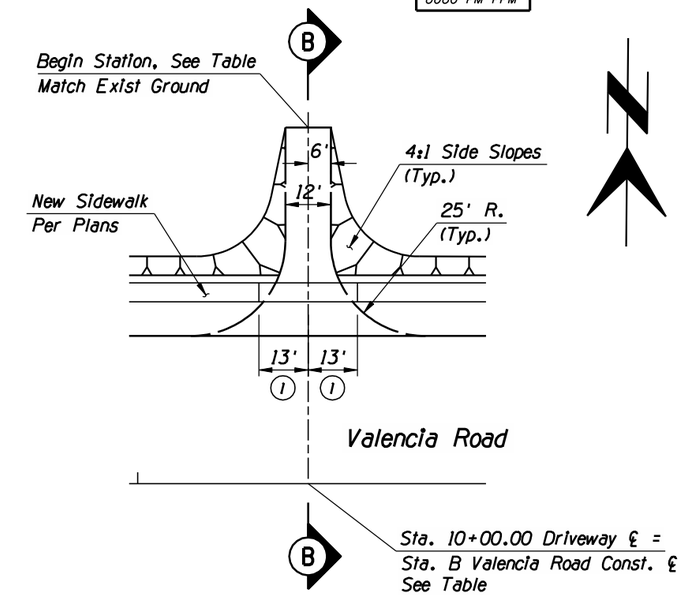


South Driveway Access Plan View

NTS

Station A	End Station
Sta. 237+80	Sta. 10+74
Sta. 254+70	Sta. 10+84
Sta. 278+20	Sta. 10+70
Sta. 282+70	Sta. 10+69
Sta. 290+60	Sta. 10+77
Sta. 298+50	Sta. 10+78
Sta. 311+90	Sta. 11+00

Station B	Begin Station
Sta. 237+60	Sta. 8+97
Sta. 277+45	Sta. 9+06
Sta. 282+02	Sta. 9+00
Sta. 288+68	Sta. 9+08
Sta. 308+90	Sta. 8+96

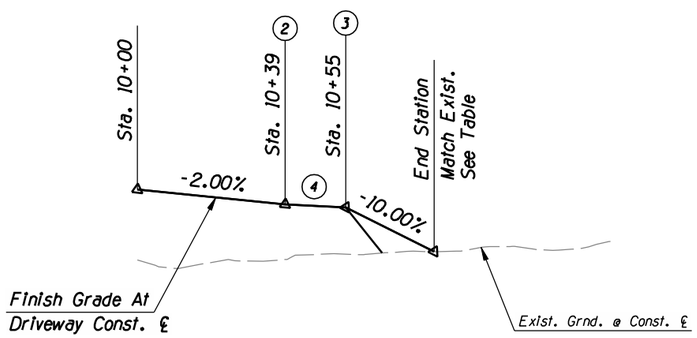


North Driveway Access Plan View

NTS

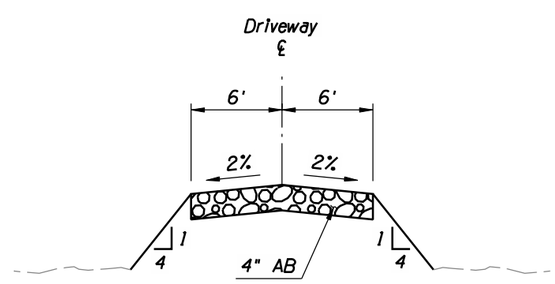
Notes:

1. Sidewalk is 6" thick where access driveways cross the sidewalk.
2. For Driveway at Sta. 254+70, Sta. =10+44.
3. For Driveway at Sta. 254+70, Sta.=10+60.
4. For Driveways at sidewalk locations, Grade is -1.00%. For all other Driveways, Grade is -2.00%.
5. For Driveway at Sta. 282+02, Sta.=9+33.
6. For Driveway at Sta. 282+02, Sta. =9+73.
7. For Driveways at sidewalk locations, Grade is +1.00%. For all other Driveways, Grade is +2.00%.



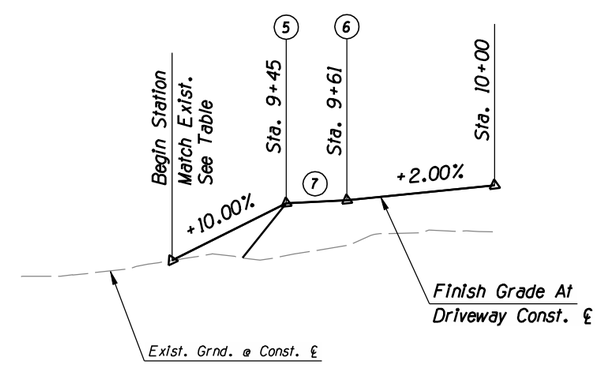
Section (A)

NTS



Typical Section

NTS



Section (B)

NTS

DETAIL F

Drainage Access Driveways

SPECIAL DETAILS

No.	Revision Description	Engineer	Date

	Designed	Drawn	Checked	Proj. Engr.
	JMF	JMF	RDB	RDB
Date	04/2011	04/2011	04/2011	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

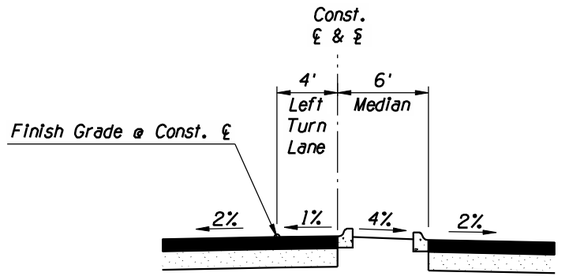
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000001152226
Client Number: 012145

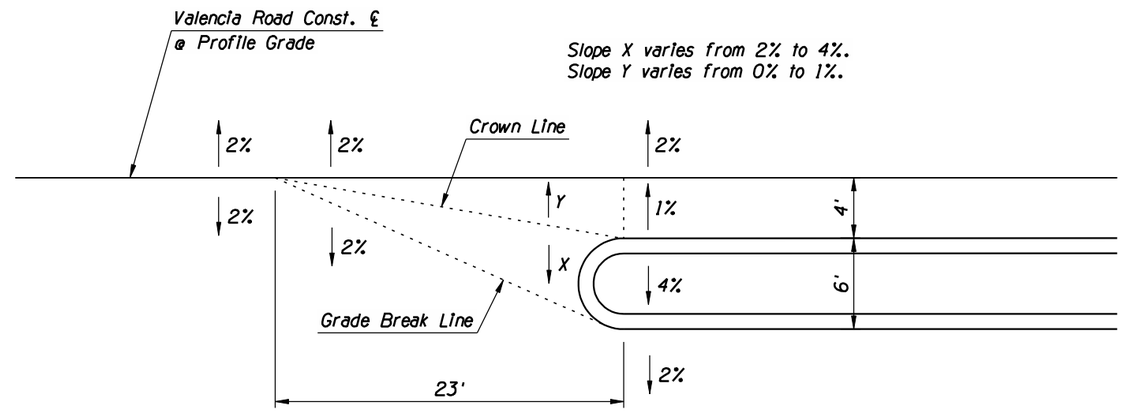
Scales	Horiz. 1" = NA	Sheet DT4 of DT13	Page 14 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

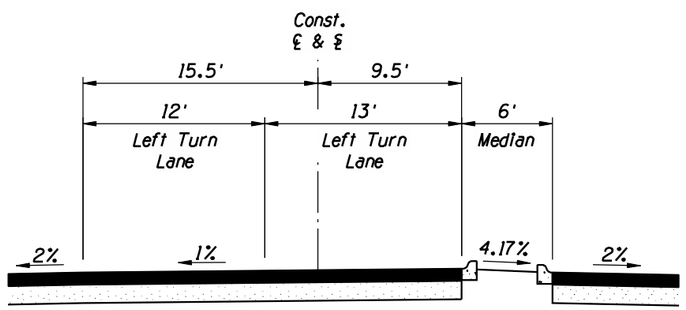
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



VALENCIA ROAD
Single Left Turn Bay Section Detail

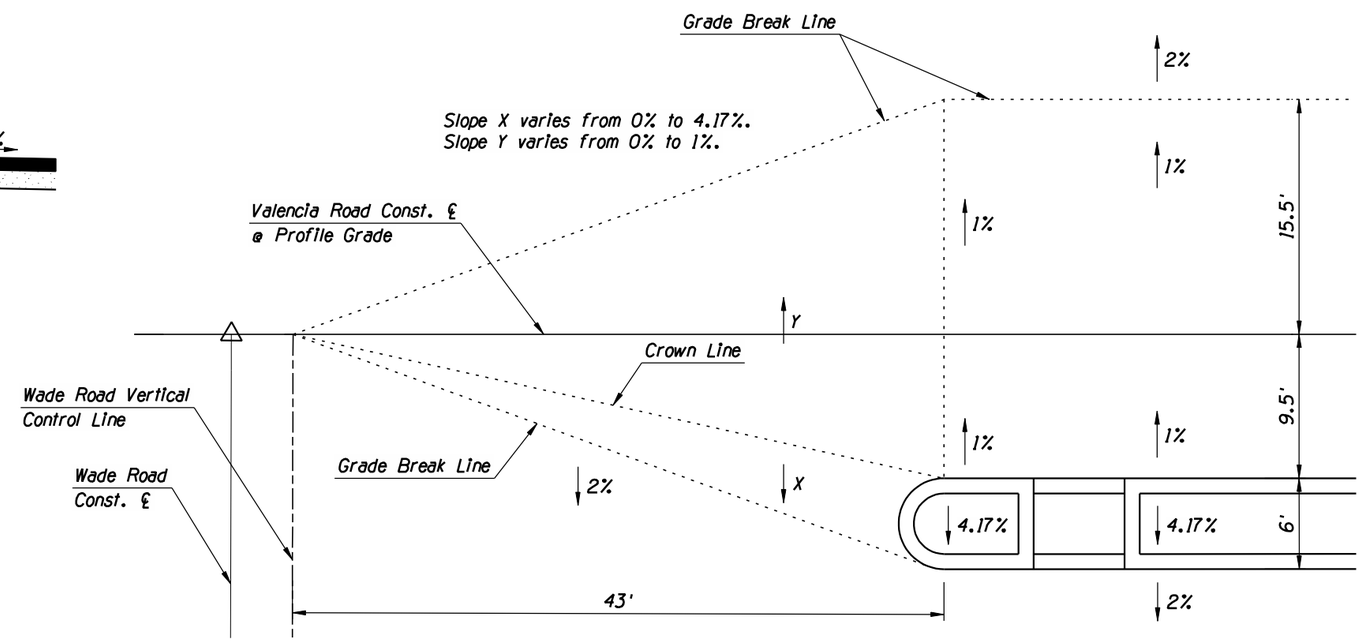


VALENCIA ROAD
Single Left Turn Bay Crown Detail



VALENCIA ROAD
Double Left Turn Bay Section Detail

Note:
The other side of the intersection is a mirror image.



VALENCIA ROAD
Double Left Turn Bay Crown Detail

DETAIL G

Left Turn Bay Opening Details

SPECIAL DETAILS

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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OR RECORDING

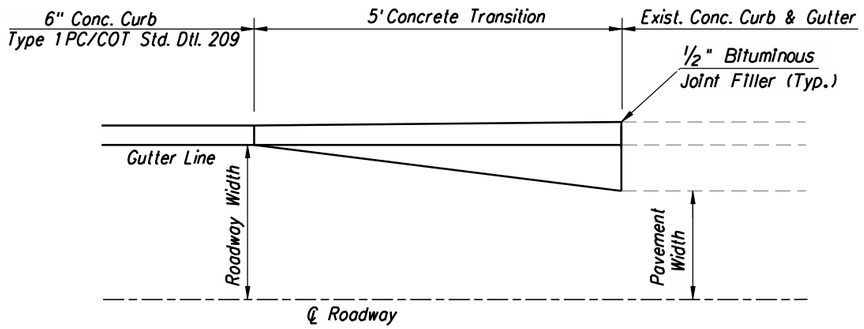
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

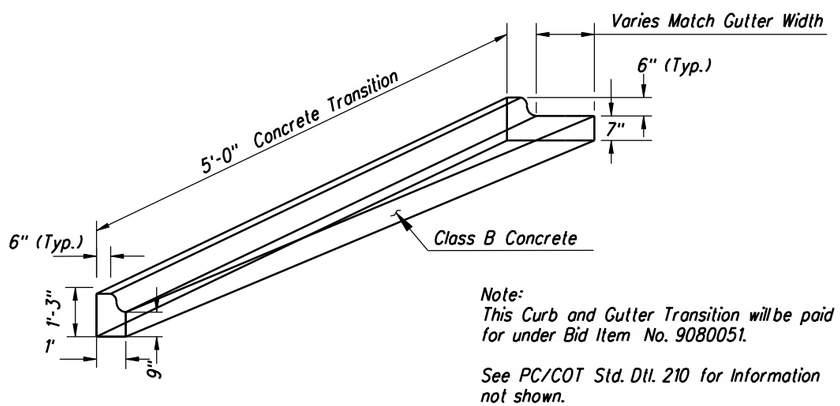
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = NA Vert. 1" = NA	Sheet DT5 of DT13	Page 15 of 148

TRACS No. SS975 01C

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			





Note:
This Curb and Gutter Transition will be paid for under Bid Item No. 9080051.

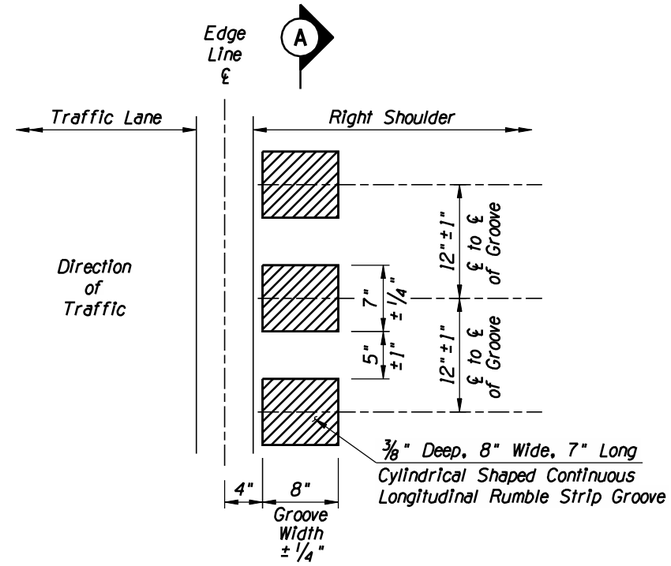
See PC/COT Std. Dtl. 210 for information not shown.

Curb and Gutter Transition

NTS

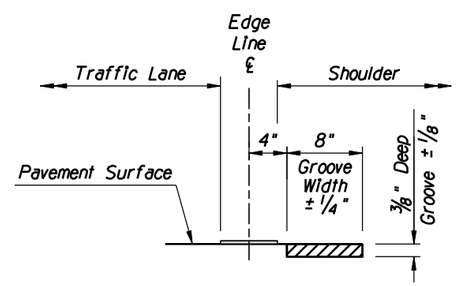
DETAIL H

Curb & Gutter Transition



Plan View

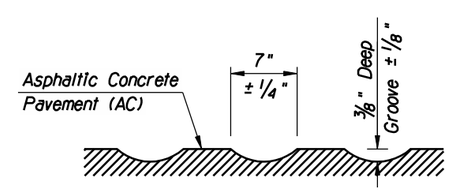
NTS



Typical Longitudinal Rumble Strip Location
8" Wide Strip With Offset

Profile View

NTS

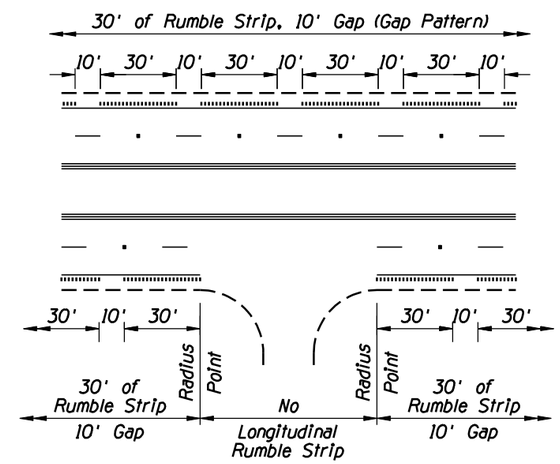


Section A

NTS

General Notes:

1. The longitudinal rumble strip groove and pattern shall be constructed by milling or grinding the indentations in the asphaltic concrete pavement.
2. The grinding machine shall be equipped with an acceptable guide that allows the strip to be installed to the proper alignment within acceptable tolerances.
3. To ensure proper rumble strip location, a temporary paint edge line shall be installed at the permanent location prior to the installation of the ground-in rumble strip. The rumble strip shall follow the location of the edge line.
4. The radius and configuration of the cutting/milling drum and machine shall be able to produce a smooth and consistent groove to the requirements of these specifications.
5. Longitudinal rumble strips shall not be placed on construction joints.
6. Rumble strips shall be omitted across intersections and driveways.



Typical Installation

NTS

DETAIL I

Rumble Strips

SPECIAL DETAILS

Scales	Horiz. 1" = NA	Sheet DT6 of DT13	Page 16 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

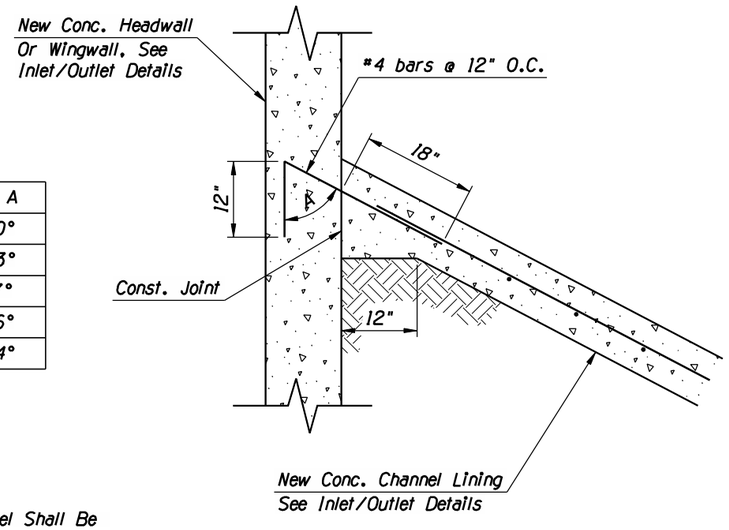
STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\17C-01.dgn
Model: 17C-06
Printed By: aledesma Date: 09\07\11 10:57:59 AM
Print Scale: 1:20

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



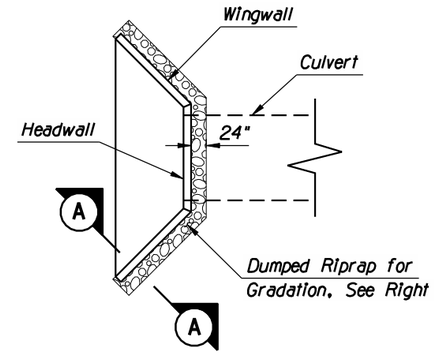
Side Slope	Angle A
1:1	45.00°
2:1	63.43°
3:1	71.57°
4:1	75.96°
6:1	80.54°

Notes:

1. All Reinforcing Steel Shall Be Grade 40.
2. Bank Protection Tie Shall Be Included In the Bid Price for the Concrete Channel Lining.

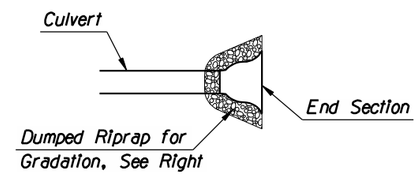
DETAIL DA

Bank Projection Tie



Headwall/Wingwall Treatment

NTS

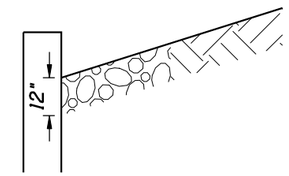


Pipe Inlet/Outlet Treatment

NTS

Riprap Gradation

% Passing	Size
100-90	12"
85-70	9"
50-30	6"
15-5	4"
5-0	2"



Section A

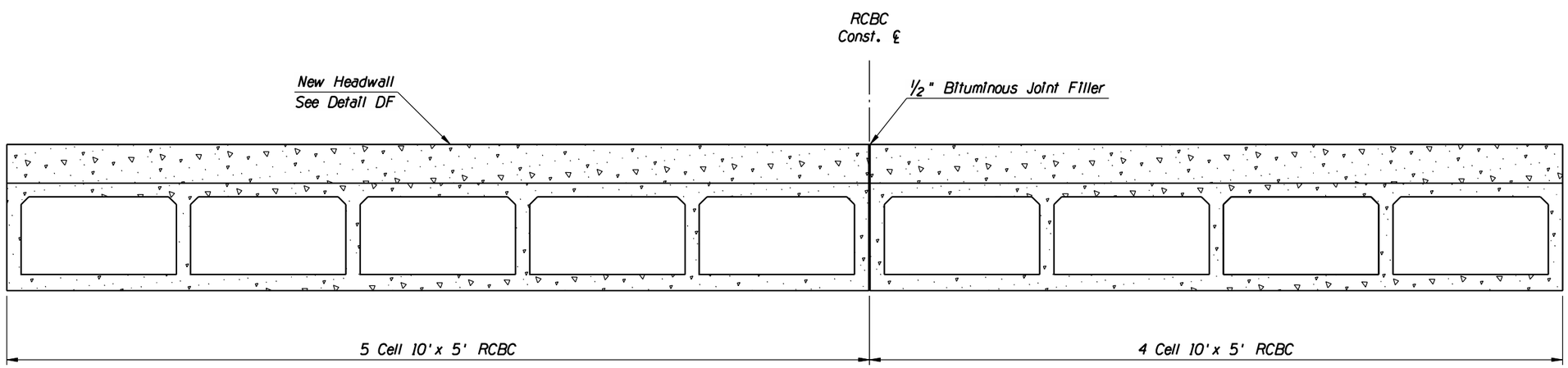
NTS

Notes:

Detail DB will be paid for under Bid Item No. 9130001, Riprap (Dumped)

DETAIL DB

Rock Mulch Protection



Elevation of Inlet Headwall

NTS

Box Culverts to be constructed immediately adjacent to each other.
Extend joint through headwalls.

DETAIL DC

Box Culvert Joint Detail

SPECIAL DETAILS

Scales	Horiz. 1" = NA	Sheet DT7 of DT13	Page 17 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	BJP, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
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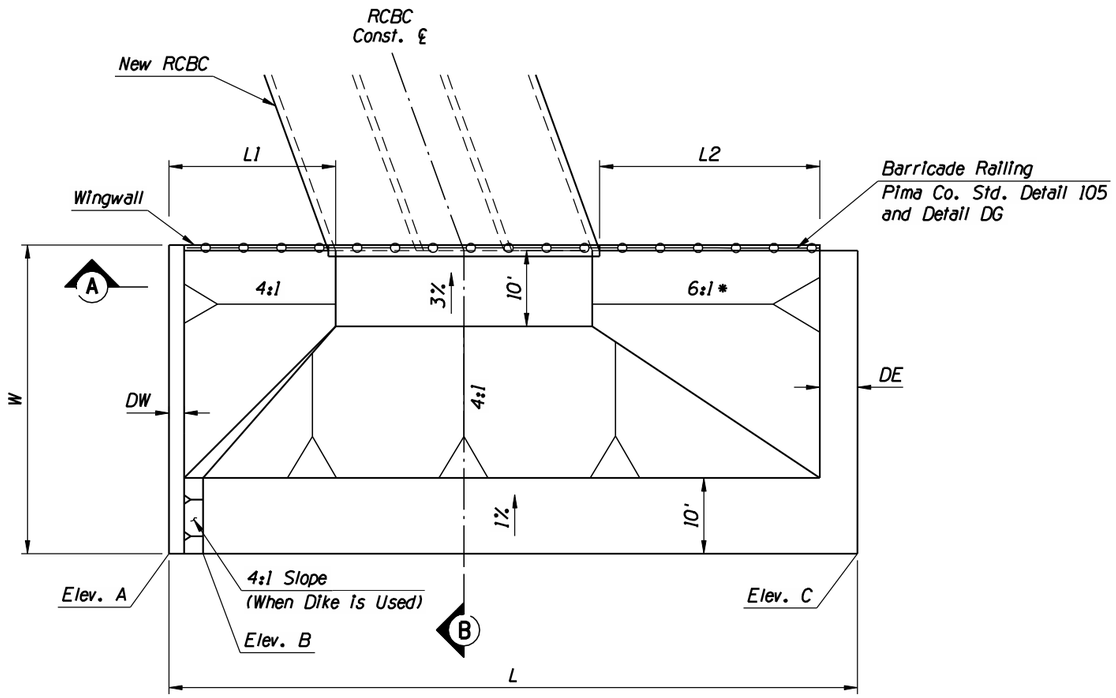
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145
Pentable: 152226_PL010R0R.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\17D-01.dgn
Model: 17D-01
Printed By: aledesma Date: 09\07\11 10:58:03 AM
Print Scale: 1:20

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



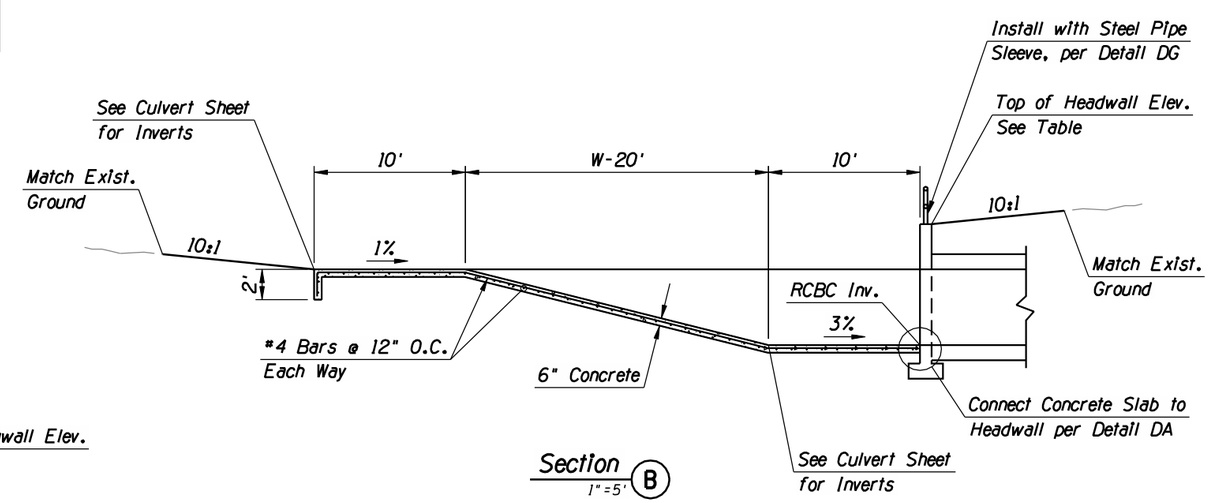
Plan View

1" = 10'

DIMENSION TABLE - All dimensions are in feet.

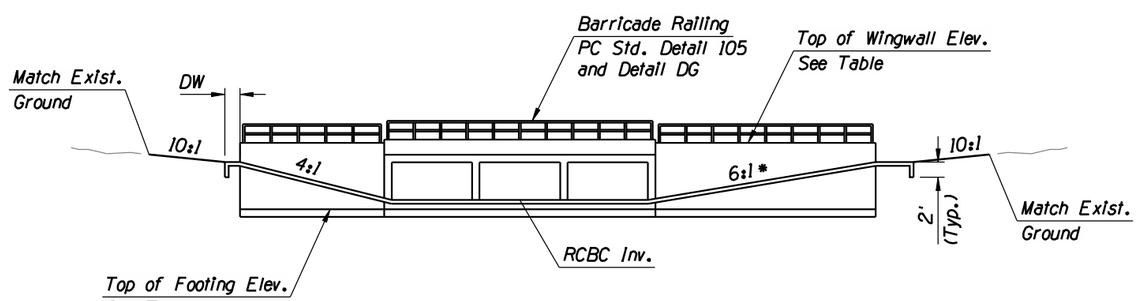
RCBC	L	L1	L2	W	DW	DE	Elev. A	Elev. B	Elev. C	Footing Elev.	Wingwall Elev.
1	79.00	21.0	37.4	36	5	5	2480.70	-	2482.10		
2	80.00	0.0	30.8	36	0	5	2487.90	-	2488.20		
3	66.00	27.8	21.0	36	2	5	2496.80	2496.10	2495.80		
4	92.68	22.0	36.8	40	2	5	2498.50	2497.90	2497.90		
5	76.57	23.8	33.2	38	5	5	2500.00	-	2500.00		
6	202.86	18.9	30.8	36	2	5	2503.00	2501.90	2501.90		
7	158.36	11.6	21.8	30	2	5	2509.40	2508.10	2508.10		

* 6:1 slope is for access. See Culvert Plan/Profile for location.



Section B

1" = 5'



Section A

1" = 10'

DETAIL DD

Inlet Details

SPECIAL DETAILS

Scales	Horiz. 1" = NA Vert. 1" = NA	Sheet DT8 of DT13	Page 18 of 148

TRACS No. SS975 01C

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	BJP, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
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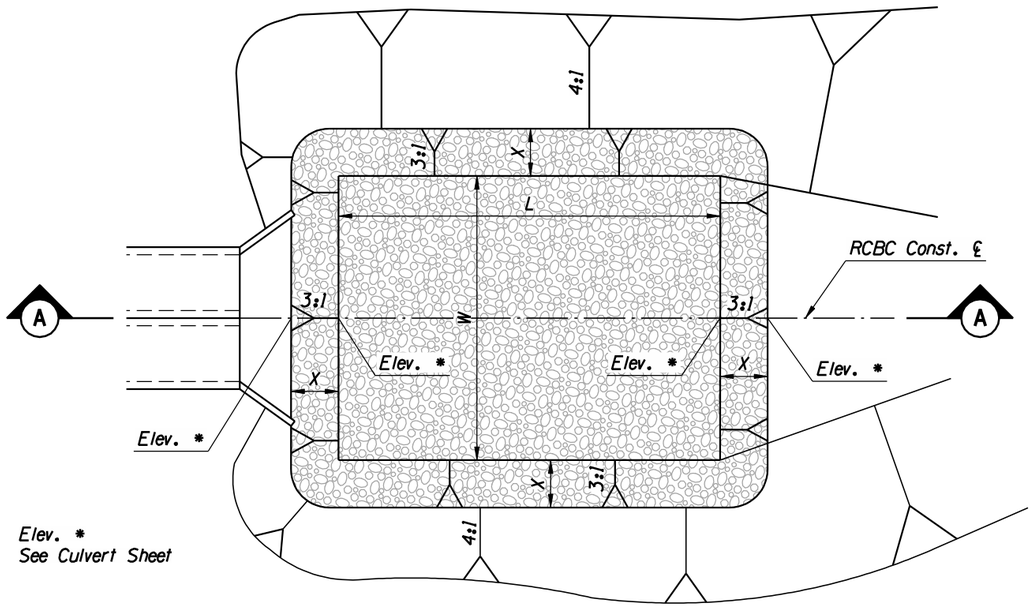
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

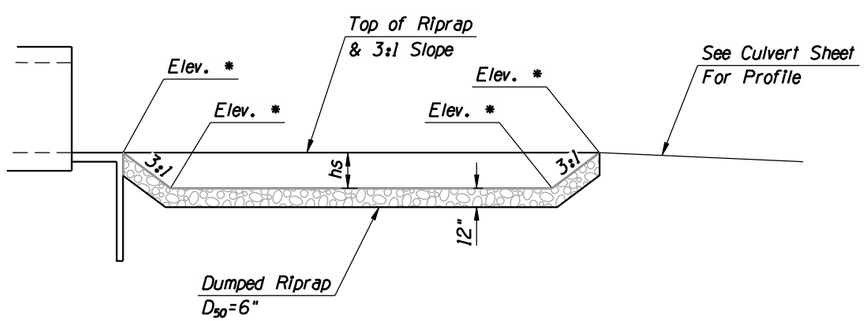


Plan View
NTS

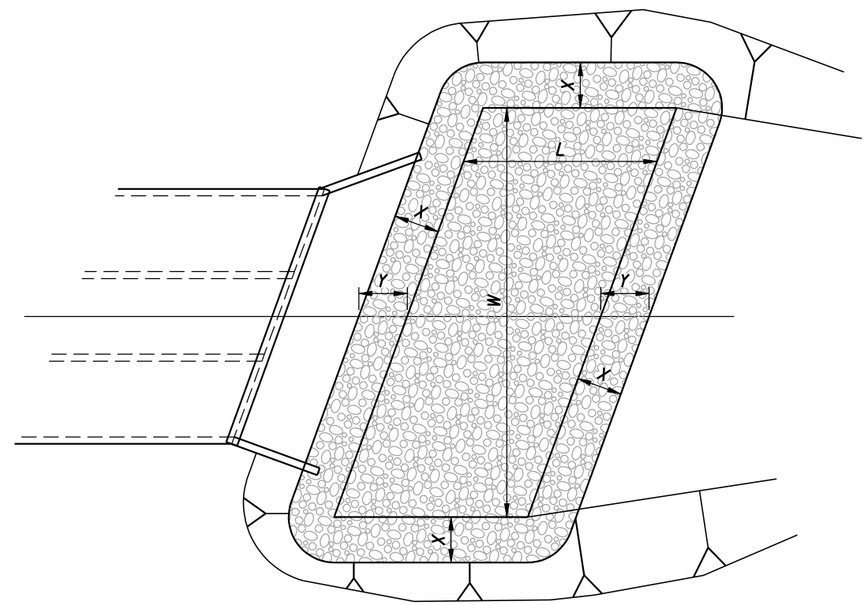
Culvert #	Station	hs	L	W	X	Y
		Feet				
1	237+10	2.5	30	46	7.5	N/A
36" RCP	241+82	1.5	18	15	4.5	N/A
2	253+66	2.5	30	68	7.5	8.7
36" RCP	258+20	1.5	18	15	4.5	N/A
3	278+40	2.0	24	37	6.0	6.9
4	281+80	2.0	24	54	6.0	6.4
5	289+70	2.0	24	37	6.0	6.9
6	296+70	2.5	30	134	7.5	10.6
7	310+50	2.5	30	134	7.5	8.7

Riprap Gradation

% Passing	Size
100-90	12"
85-70	9"
50-30	6"
15-5	4"
5-0	2"



Section A
NTS



For Skewed Culverts
NTS

DETAIL DE

Preformed Scour Hole

SPECIAL DETAILS

Scales	Horiz. 1" =NA	Sheet DT9 of DT13	Page 19 of 148
	Vert. 1" =NA		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	JMF	Date 04/2011
Drawn	BJP, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

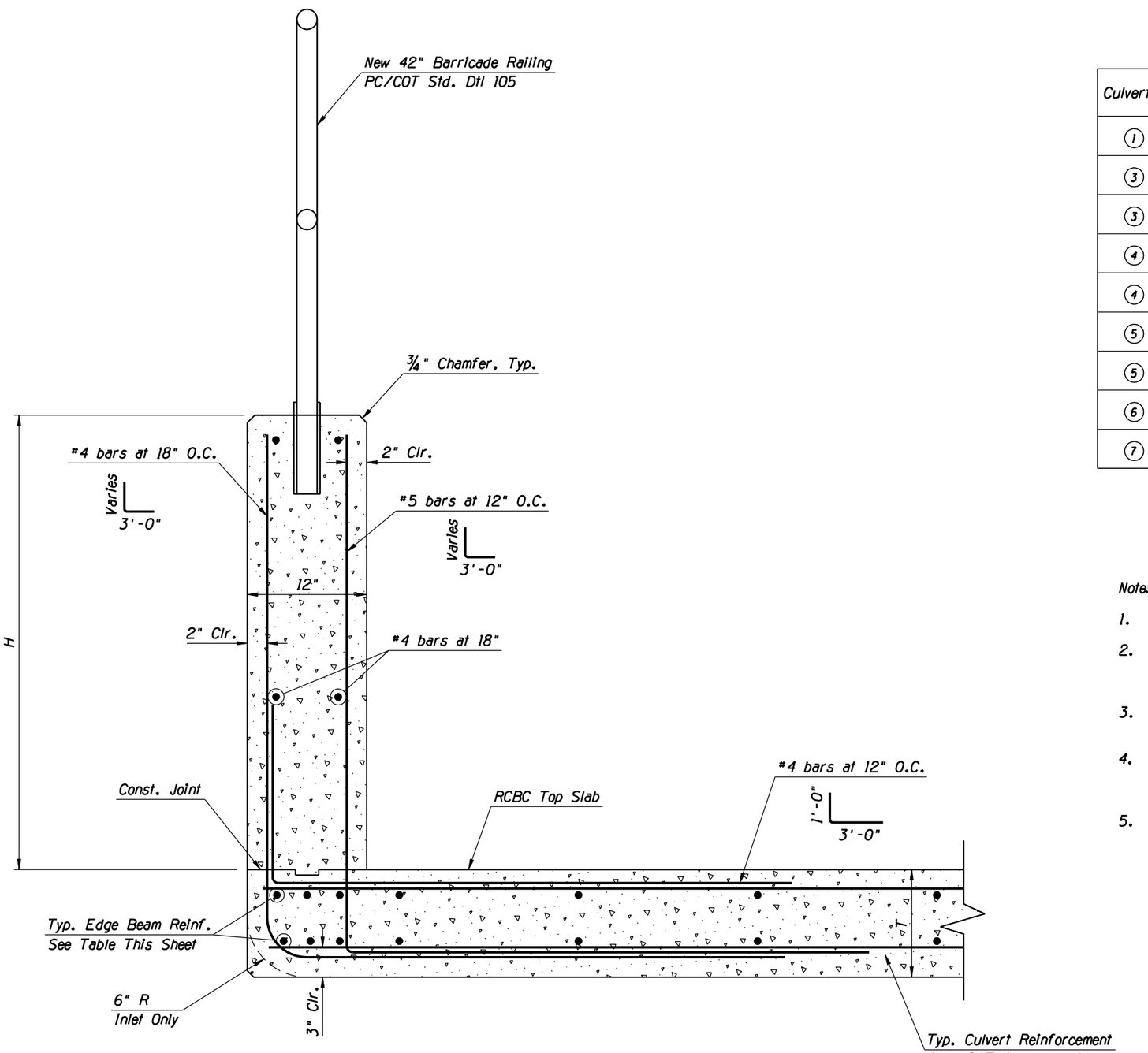
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTDRDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\17D-01.dgn
Model: 17D-03
Printed By: aledesma Date: 09\07\11 10:58:07 AM
Print Scale: 1:2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Headwall Section

NTS

Culvert #	Headwall Location	T	H	Edge Beam Reinf.
1	Outlet	10 1/2"	2'-0"	3-#7 Bars Top & Bottom
3	Inlet	9 1/2"	2'-0"	3-#8 Bars Top & Bottom
3	Outlet	9 1/2"	2'-6"	3-#8 Bars Top & Bottom
4	Inlet	10 1/2"	2'-0"	3-#7 Bars Top & Bottom
4	Outlet	10 1/2"	3'-0"	3-#7 Bars Top & Bottom
5	Inlet	9 1/2"	2'-0"	3-#8 Bars Top & Bottom
5	Outlet	9 1/2"	2'-0"	3-#8 Bars Top & Bottom
6	Outlet	10 1/2"	3'-0"	3-#8 Bars Top & Bottom
7	Outlet	10 1/2"	2'-0"	3-#8 Bars Top & Bottom

Notes:

1. Concrete shall be Class S (f'_c=3000 psi).
2. Reinforcing steel shall conform to ASTM A 615. Grade 40 for bar sizes #6 and smaller. Grade 60 for bar sizes #7 and larger.
3. All reinforcing steel shall have 2" clear cover unless noted otherwise.
4. Provide construction joints in headwalls at a maximum spacing of 30 feet. All joints shall be placed perpendicular to headwall.
5. For Culverts 6 & 7, See Detail DC.

DETAIL DF

Modified RCBC Headwall

SPECIAL DETAILS

Scales	Horiz. 1"=NA	Sheet DT11 of DT13	Page 21 of 148
	Vert. 1"=NA		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	JMF	04/2011
Drawn	BJP, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\17D-01.dgn
Model: 17D-05
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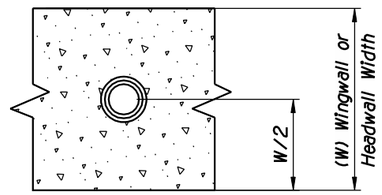
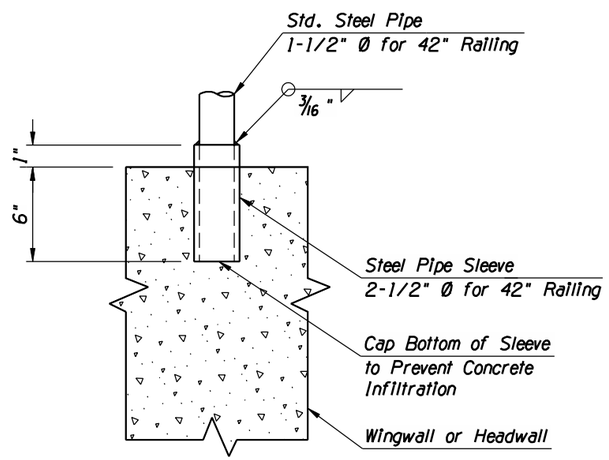
Print Scale: 1:2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

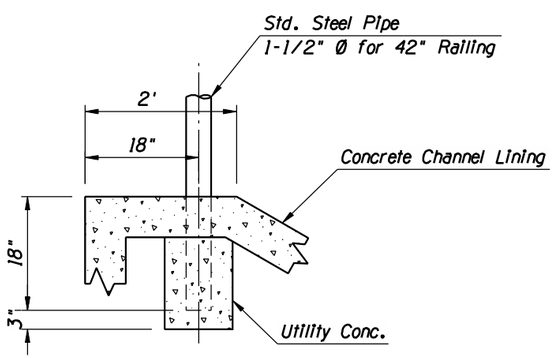




Headwall & Wingwall Barricade Railing Installation

Post Sleeve Detail

NTS



Concrete Channel Lining Barricade Railing Installation

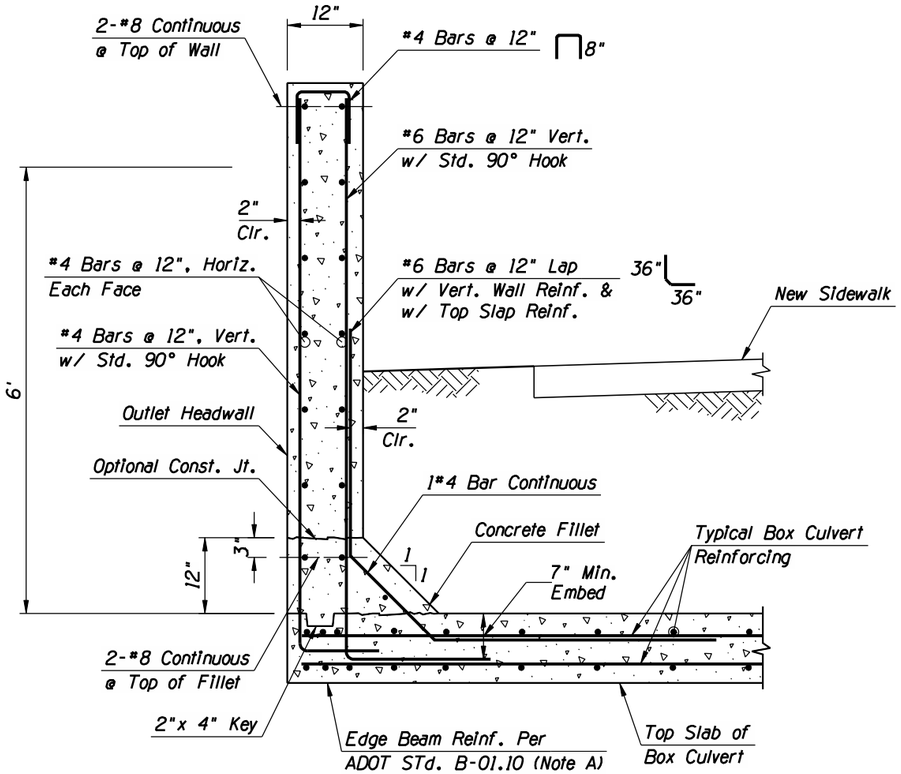
NTS

Notes:

1. See PC/COT Std. Dtl. 105 for Barricade Railing Installation.
2. See Artwork Plans for Railing Treatment.
3. Barricade Railing shall recieve one shop coat of primer paint (No. 2) & two field coats of enamel.
4. This Detail will be paid under Bid Item 9330001-Barricade Railing (PC/COT Std. Dtl. 105).

DETAIL DG

Barricade Railing Installation



Section Special Headwall

NTS

Notes:

1. Concrete shall be Class S (f'c=3000 psi).
2. Reinforcing steel shall conform to ASTM A 615. Grade 40 or 60 for bar sizes #4 and smaller. Grade 60 for bar sizes #5 and larger.
3. All reinforcing steel shall have 2" clear cover unless otherwise noted.
4. Provide vertical construction joints in headwalls where shown on plans, not to exceed 30' o.c. Construction joints shall conform to ADOT Std. SD 7.01.
5. Provide 1/2" vertical expansion joints at connection to wingwall

DETAIL DH

Outlet Headwall for Box Culvert

Sta. 253+66

SPECIAL DETAILS

Scales	Horiz. 1" =NA	Sheet DT12 of DT13	Page 22 of 148
	Vert. 1" =NA		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	JMF	04/2011
Drawn	BJP, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

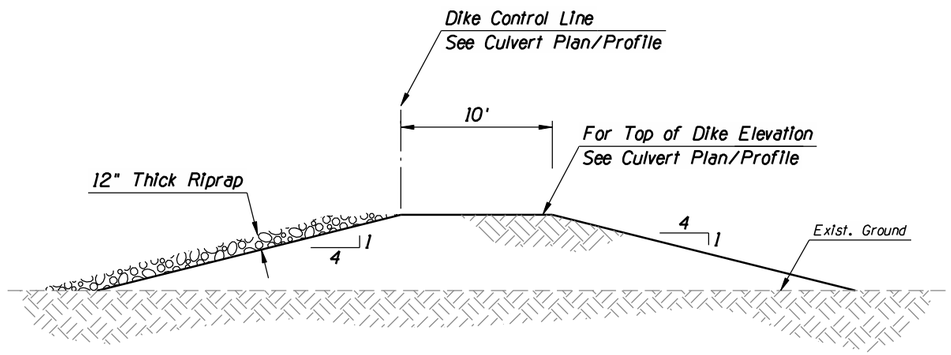
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.pll
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\17D-01.dgn
Model: 17D-06
Printed By: aledesma Date: 09\07\11 10:58:11 AM
Print Scale: 1:2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

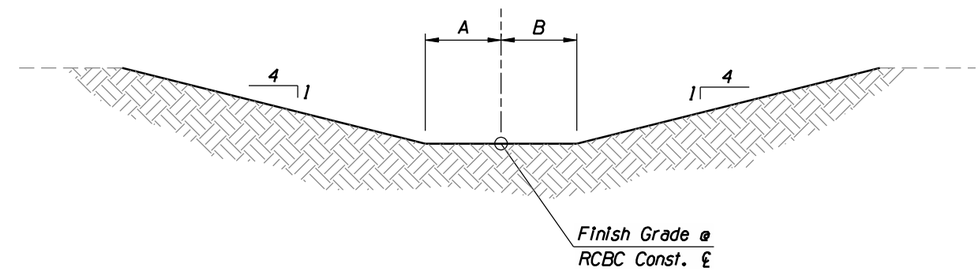


Riprap Gradation

% Passing	Size
100-90	12"
85-70	9"
50-30	6"
15-5	4"
5-0	2"

DETAIL DI

Inlet Dike



Outfall Dimensions			
Culvert #	Station	A (Ft)	B (Ft)
1	7+80.00	2.0	2.0
	8+90.15	23.0	23.0
2	8+12.00	3.9	5.7
	8+55.72		31.2
	8+80.14	32.1	
3	7+50.00	2.3	2.8
	8+71.54		15.9
	8+94.11	18.2	
4	8+10.00	2.9	3.1
	8+67.50		24.9
	8+89.34	25.0	
5	5+32.00	1.0	1.0
	7+38.23	18.0	
	7+61.92		18.0
6	6+30.00	5.4	1.1
	7+60.05		34.8
	9+18.22	65.1	
7	6+87.00	4.6	5.0
	8+32.07		59.6
	9+13.63	64.0	

Note:

Dimensions A & B taper linearly with respect to the RCBC Const. ℄ between the stations given in the table.

DETAIL DJ

Outfall Channel

SPECIAL DETAILS

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	JMF	04/2011
Drawn	BJP, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

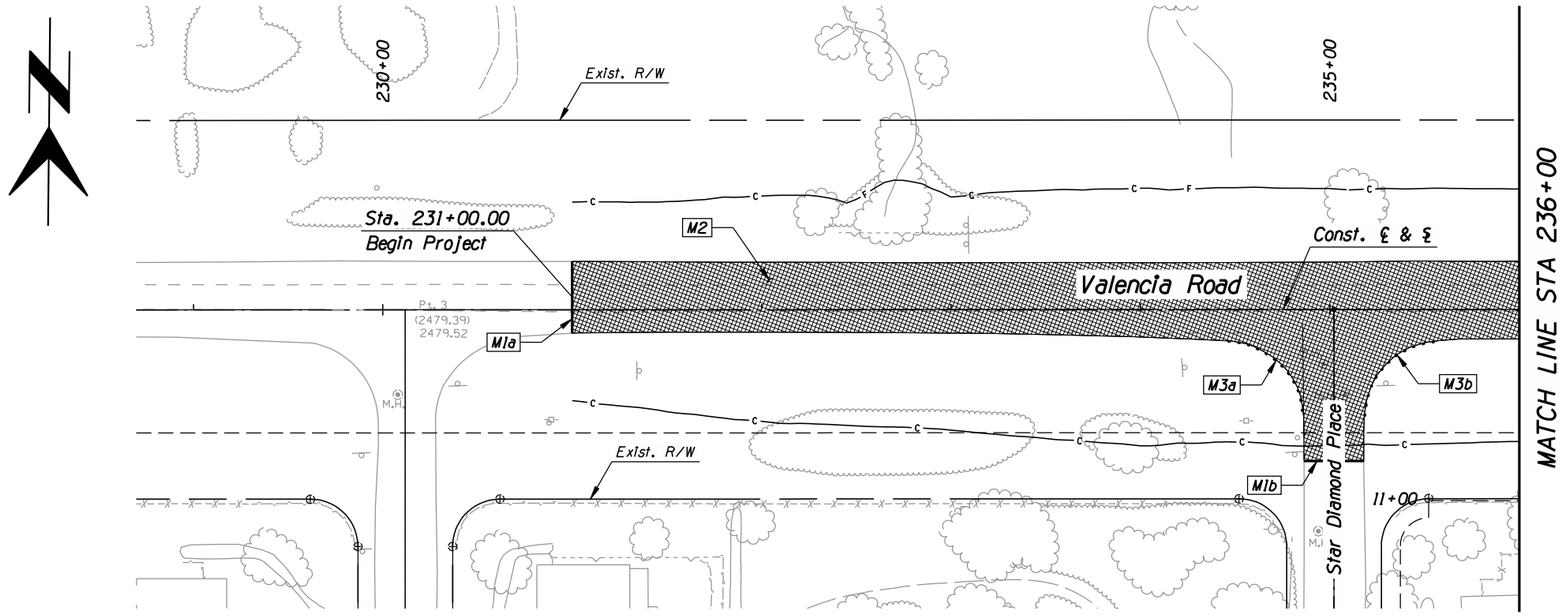
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

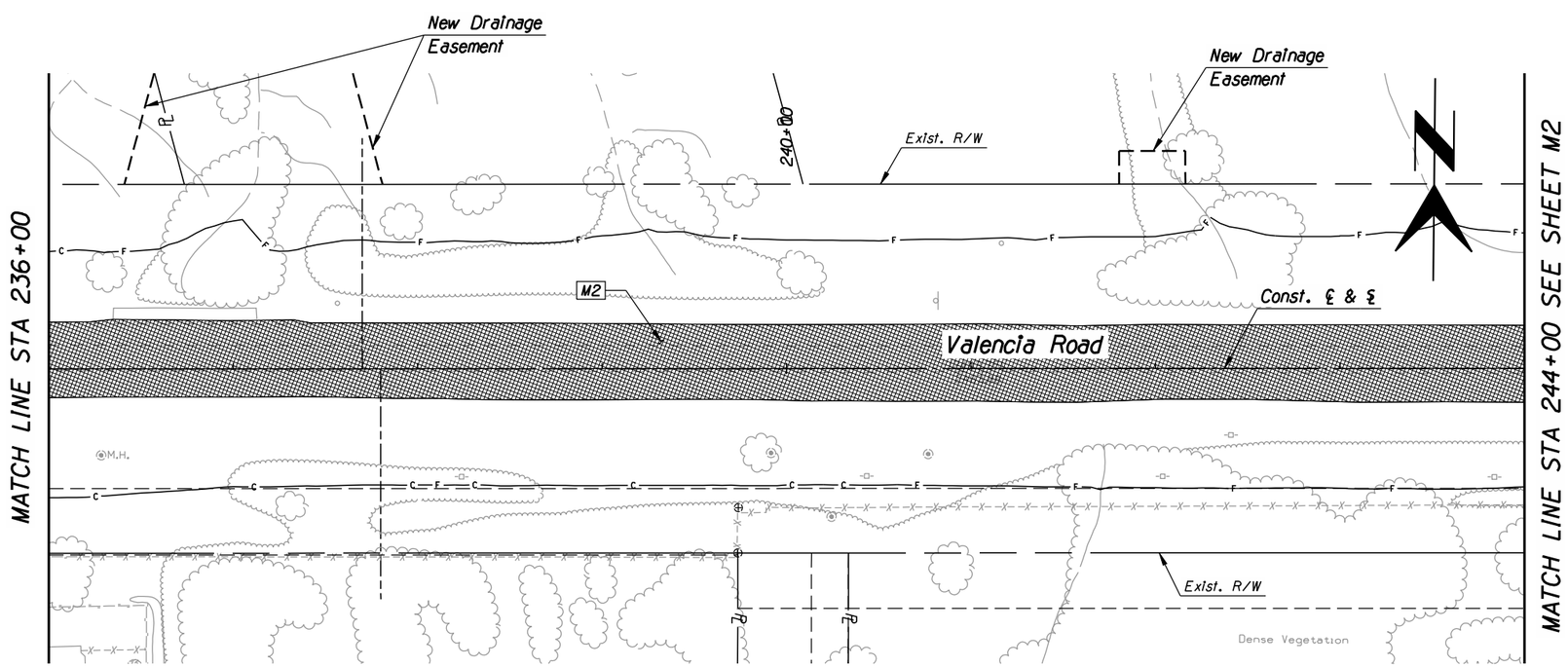
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" =NA	Sheet DT13 of DT13	Page 23 of 148
	Vert. 1" =NA		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\17D-01.dgn
Model: 17D-07
Printed By: aledesma Date: 09\07\11 10:58:14 AM
Print Scale: 1:2





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M1	70	L.F.	Sawcut Pavement
a	38	L.F.	Sta. 231+00.00, 25.5' Lt. to Sta. 231+00.00, 12.4' Rt.
b	32	L.F.	Sta. 10+80.05, 15.8' Rt. to Sta. 10+80.05, 15.8' Lt.
M2	6,142	S.Y.	Removal of Bituminous Pav't
M3	123	L.F.	Removal of Curb
a	62	L.F.	Header-Sta. 10+16.63, 56.1' Rt. to Sta. 10+56.21, 16.0' Rt.
b	61	L.F.	Header-Sta. 10+56.67, 16.1' Lt. to Sta. 10+16.59, 54.8' Lt.
M5	4.69	Ac.	Clear & Grub

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

40 0 40 80

Scales	Horiz. 1" = 40'	Sheet M1 of M11	Page 24 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

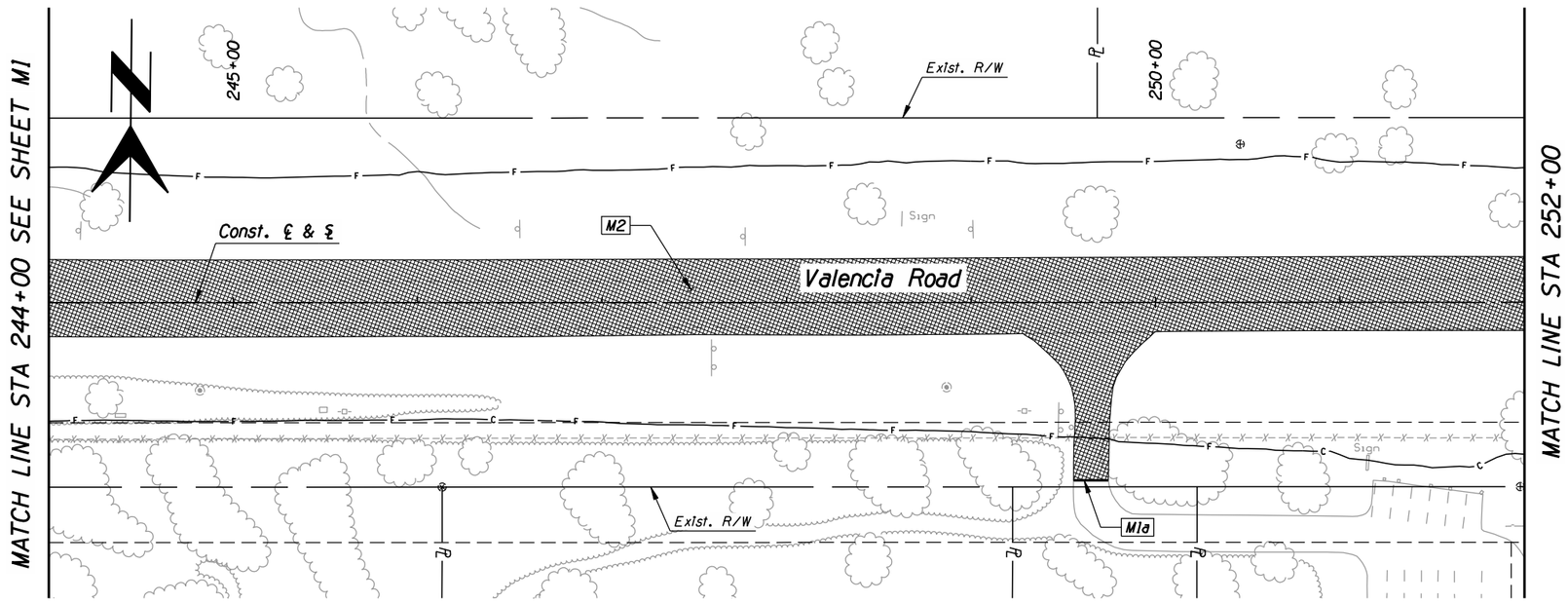
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

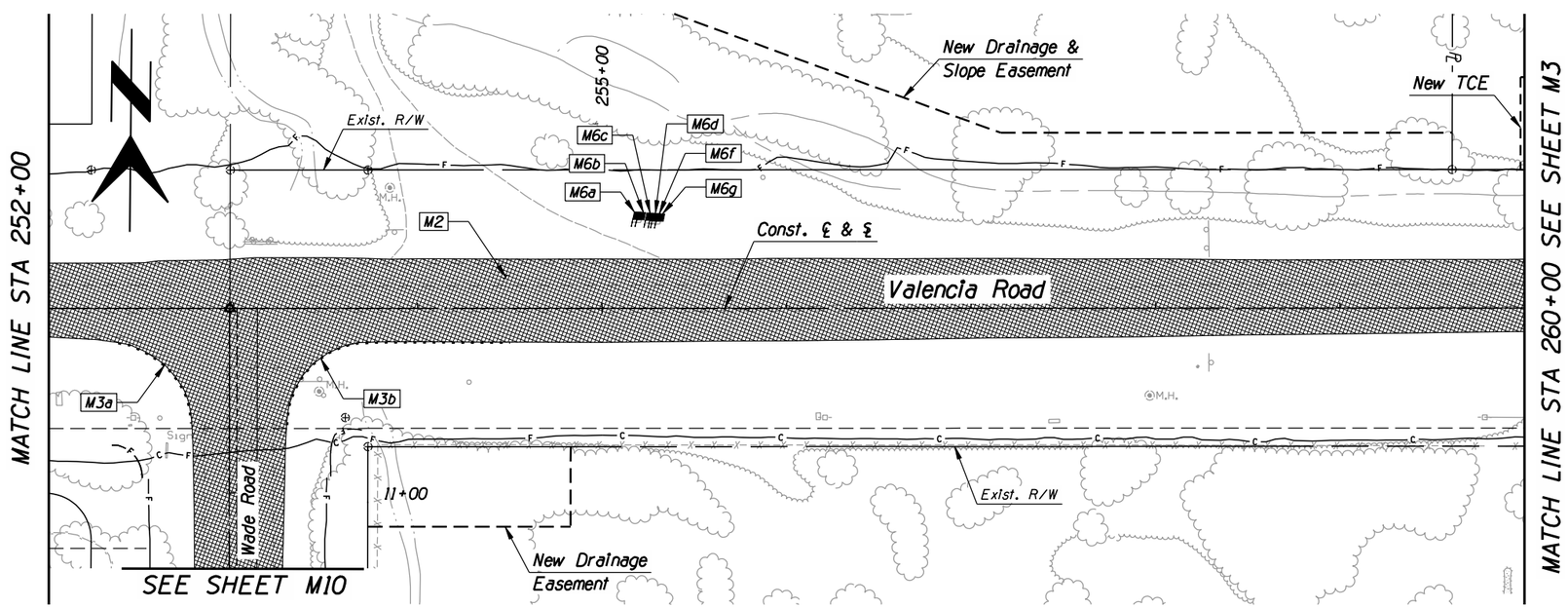
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\08C-01.dgn
Model: B08C01

Printed By: aledesma Date: 09\07\11 10:59:54 AM

Print Scale: 1:80





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M1	19	L.F.	Sawcut Pavement
a	19	L.F.	Sta. 249+55.52, 96.4' Rt. to Sta. 249+74.35, 96.4' Rt.
M2	8,515	S.Y.	Removal of Bituminous Pav't
M3	210	L.F.	Removal of Curb
a	64	L.F.	Header-Sta. 252+37.73, 18.5' Rt. to Sta. 252+77.47, 62.3' Rt.
b	146	L.F.	Header-Sta. 253+28.92, 63.2' Rt. to Sta. 254+50.04, 18.3' Rt.
M5	4.91	Ac.	Clear and Grub
M6	6	Each	Removal of Mailboxes
a	1	Each	Sta. 255+15.79, 44.2' Lt.
b	1	Each	Sta. 255+17.89, 44.0' Lt.
c	1	Each	Sta. 255+22.62, 43.6' Lt.
d	1	Each	Sta. 255+24.93, 43.5' Lt.
e	1	Each	Sta. 255+26.22, 43.4' Lt.
f	1	Each	Sta. 255+28.34, 43.2' Lt.

Priscilla S. Cornelio, P.E., Director

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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OR RECORDING

Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

40 0 40 80

Scales	Horiz. 1" = 40' Vert. 1" = 4'	Sheet M2 of M11	Page 25 of 148

TRACS No. SS975 01C

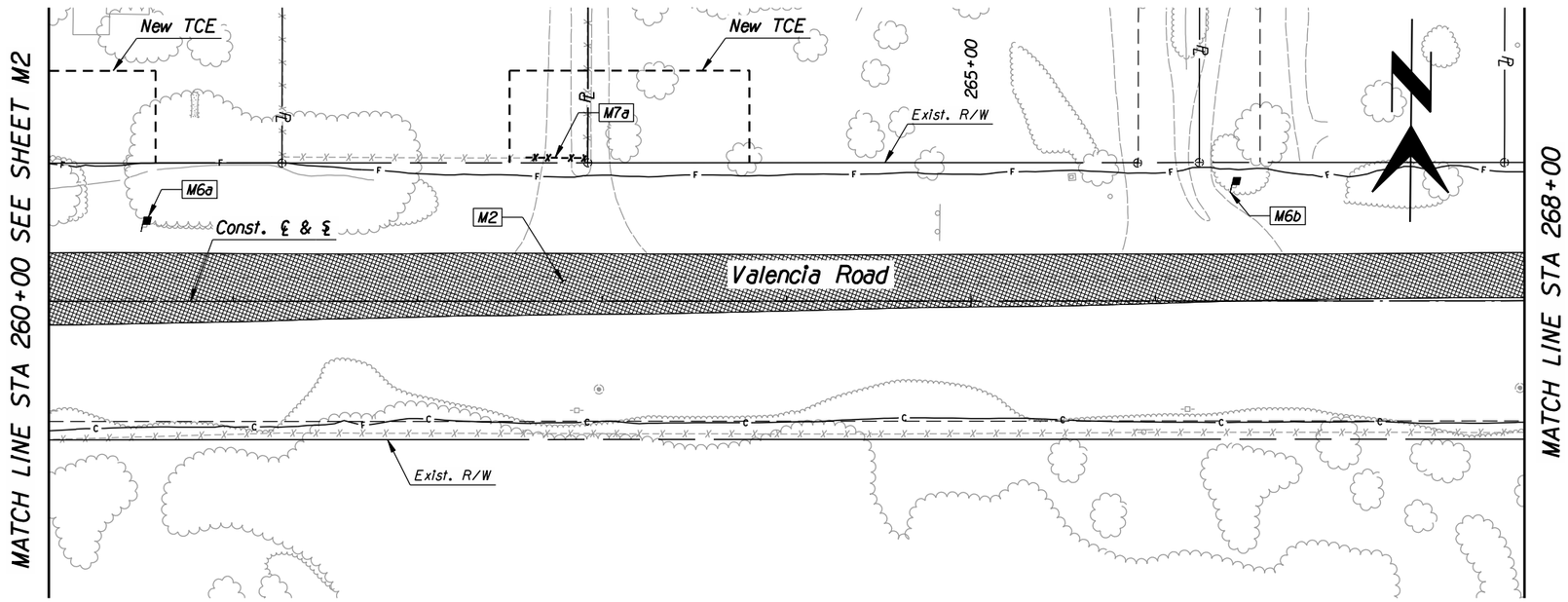
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

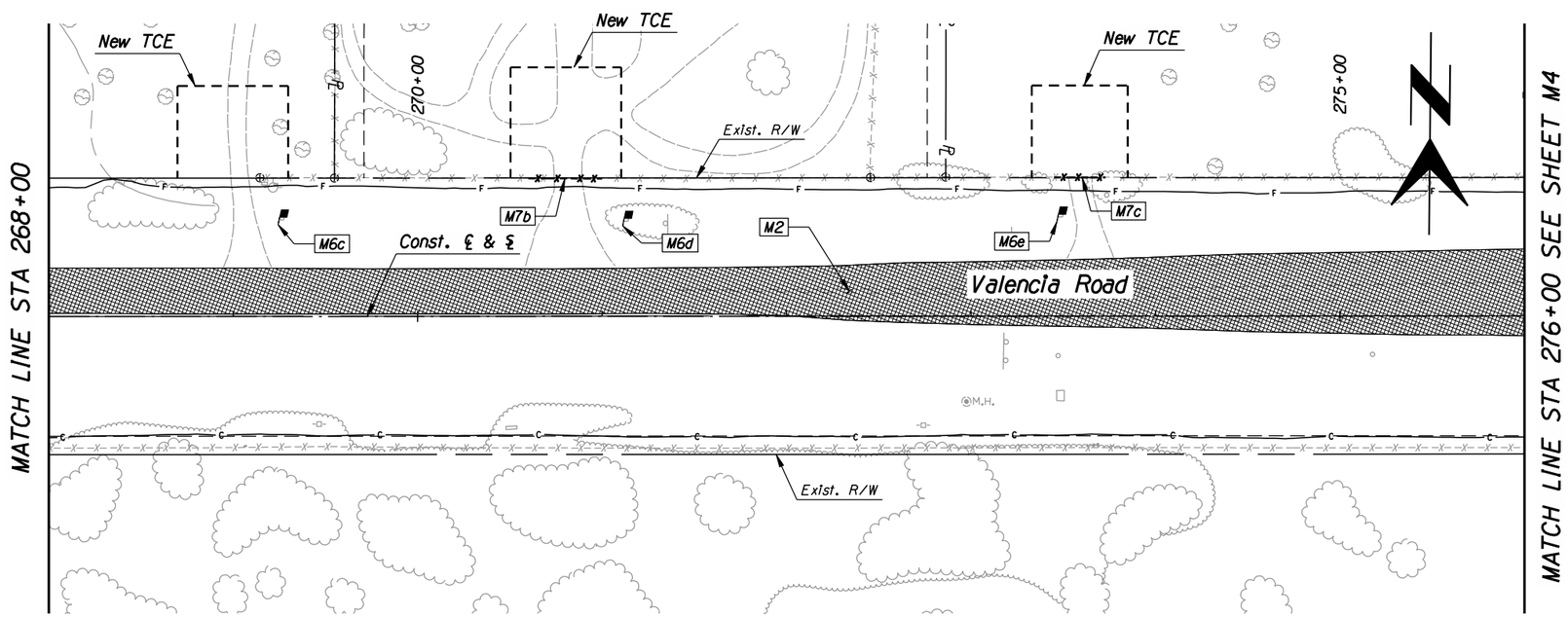
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\08C-01.dgn
Model: B08C02

Printed By: aledesma Date: 09\07\11 10:59:57 AM

Print Scale: 1:80





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M2	5,553	S.Y.	Removal of Bituminous Pav't
M5	4.69	Ac.	Clear & Grub
M6	5	Each	Removal of Mailboxes
a	1	Each	Sta. 260+50.04, 37.8' Lt.
b	1	Each	Sta. 266+40.60, 58.9' Lt.
c	1	Each	Sta. 269+24.37, 49.8' Lt.
d	1	Each	Sta. 271+11.13, 49.1' Lt.
e	1	Each	Sta. 273+46.56, 51.2' Lt.
M7	101	L.F.	Removal of Fence & Gate
a	33	L.F.	Sta. 262+58.50, 77.9' Lt. to Sta. 262+91.50, 77.6' Lt.
b	40	L.F.	Sta. 270+60.00, 74.8' Lt. to Sta. 271+00.00, 74.6' Lt.
c	28	L.F.	Sta. 273+45.00, 75.2' Lt. to Sta. 273+00, 75.2' Lt.

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Exist. R/W

HDR Engineering, Inc.
5210 East Williams Circle, Suite 130
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

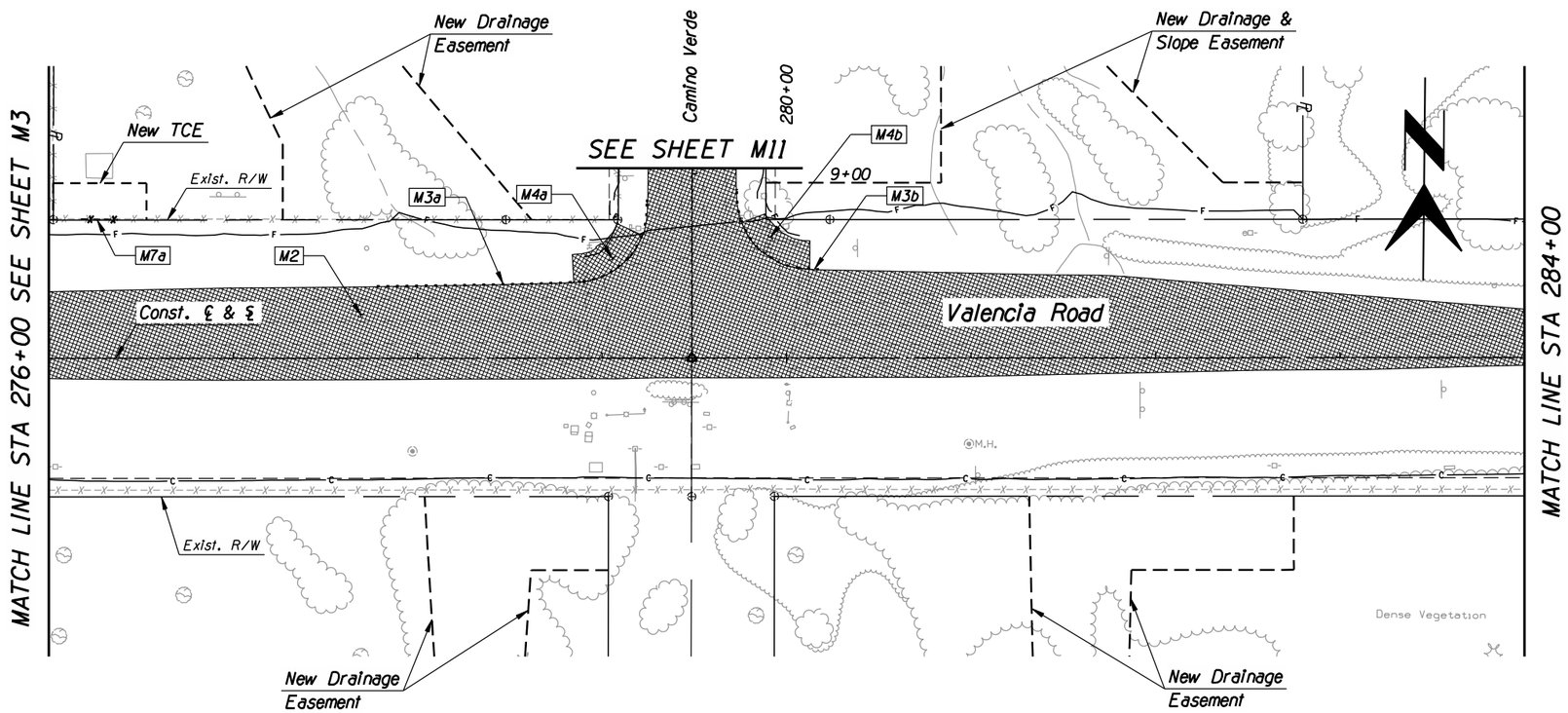
40 0 40 80

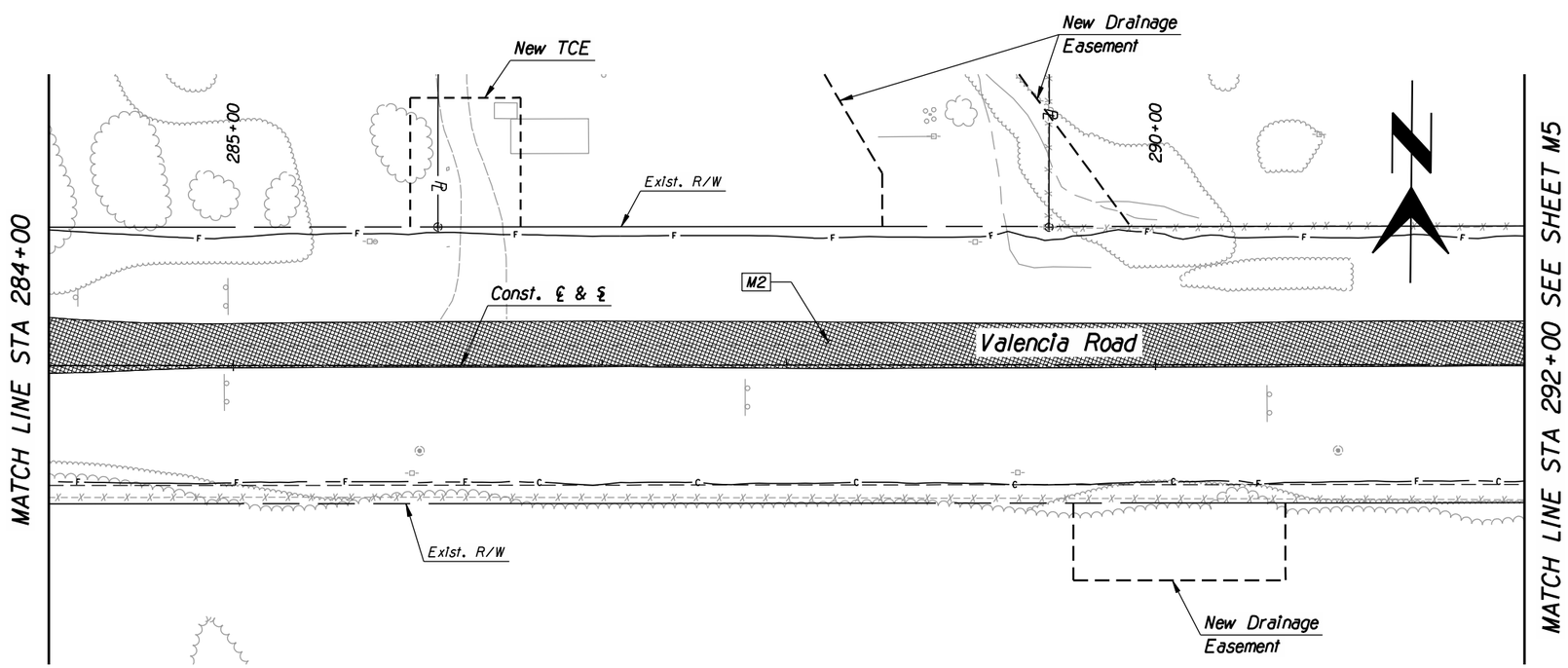
Scales	Horiz. 1" = 40'	Sheet M3 of M11	Page 26 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M2	7,013	S.Y.	Removal of Bituminous Pav't
M3	246	L.F.	Removal of Curb
a	175	L.F.	Curb-Sta. 277+77.81, 38.7' Lt. to Sta. 279+24.84, 86.5' Lt.
b	71	L.F.	Curb-Sta. 279+72.84, 91.7' Lt. to Sta. 280+17.63, 47.9' Lt.
M4	131	S.Y.	Removal of Misc. Concrete
a	68	S.Y.	Sidewalk & Ramp-Sta. 278+84.70, 41.1' Lt. to Sta. 279+21.97, 66.6' Lt.
b	64	S.Y.	Sidewalk & Ramp-Sta. 279+75.75, 73.5' Lt. to Sta. 280+12.62, 48.1' Lt.
M5	4.09	Ac.	Clear & Grub
M7	20	L.F.	Removal of Misc. Concrete
a	20	L.F.	Sta. 276+17.47, 75.4' Lt. to Sta. 276+37.47, 75.2' Lt.

Priscilla S. Cornelio, P.E., Director

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet M4 of M11

Page 27 of 148

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\08C-01.dgn
Model: B08C04

Printed By: aledesma Date: 09\07\11 11:00:02 AM

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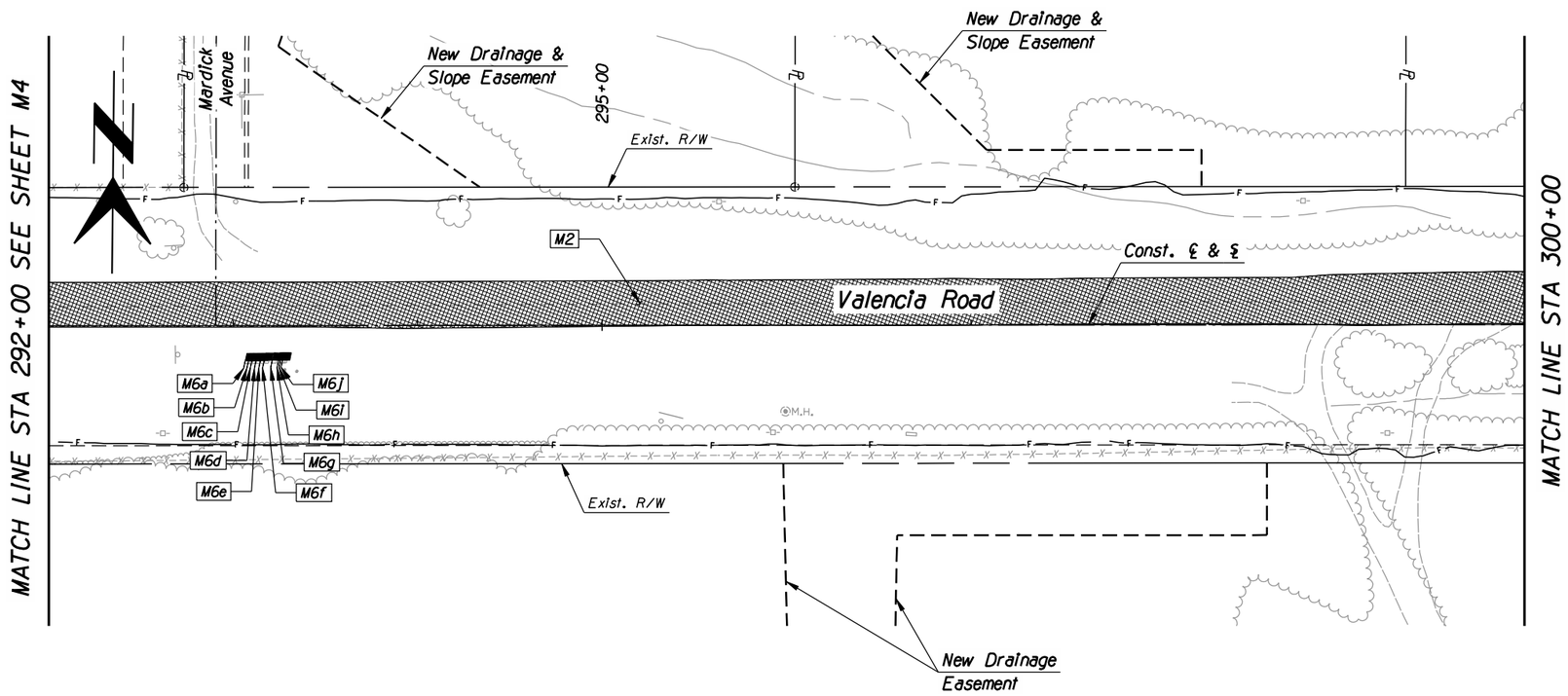
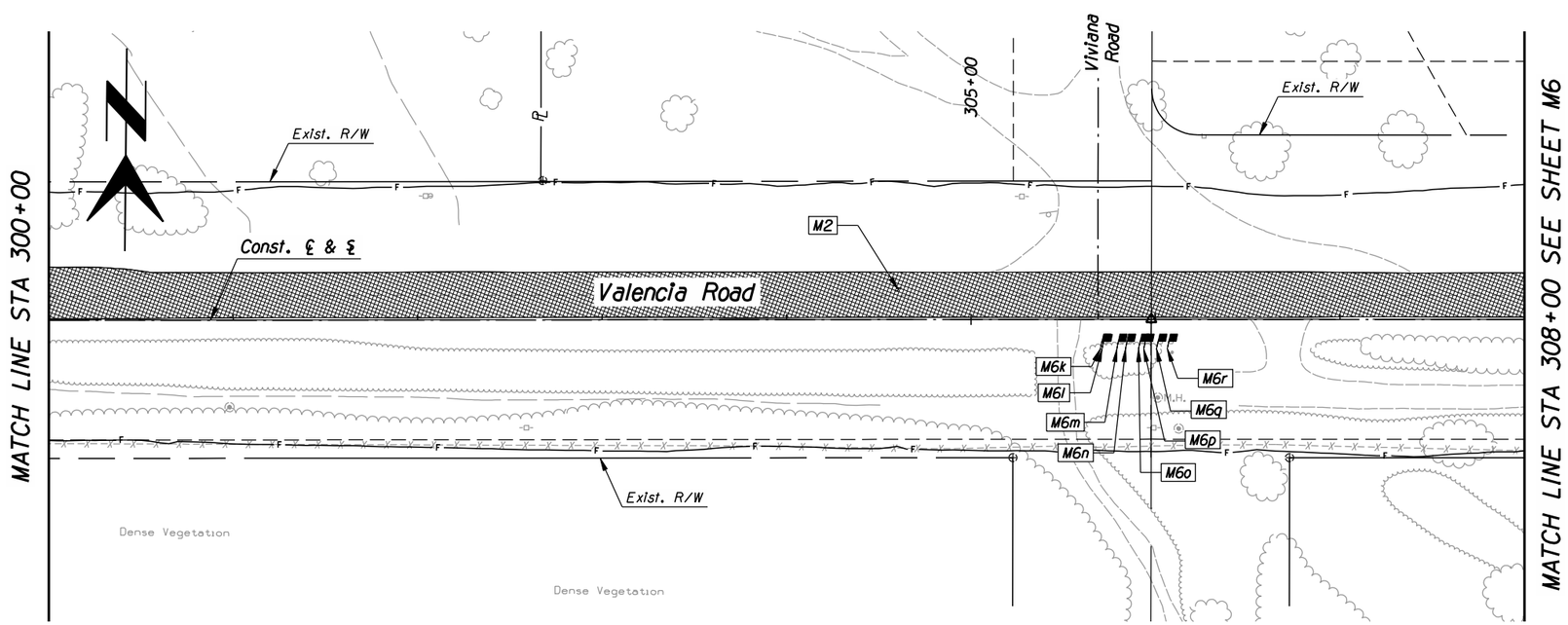




F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M2	4,438	S.Y.	Removal of Bituminous Pav't
M5	4.86	Ac.	Clear & Grub
M6	18	Each	Removal of Mailboxes
a	1	Each	Sta. 293+05.64, 23.1' Rt.
b	1	Each	Sta. 293+07.42, 23.1' Rt.
c	1	Each	Sta. 293+09.24, 23.0' Rt.
d	1	Each	Sta. 293+11.51, 23.0' Rt.
e	1	Each	Sta. 293+13.84, 22.9' Rt.
f	1	Each	Sta. 293+15.96, 22.9' Rt.
g	1	Each	Sta. 293+20.30, 22.8' Rt.
h	1	Each	Sta. 293+23.74, 22.7' Rt.
i	1	Each	Sta. 293+24.83, 22.7' Rt.
j	1	Each	Sta. 293+25.88, 22.7' Rt.
k	1	Each	Sta. 305+70.15, 16.0' Rt.
l	1	Each	Sta. 305+71.04, 16.0' Rt.
m	1	Each	Sta. 305+79.01, 16.0' Rt.
n	1	Each	Sta. 305+83.71, 16.0' Rt.
o	1	Each	Sta. 305+90.83, 16.0' Rt.
p	1	Each	Sta. 305+93.67, 16.0' Rt.
q	1	Each	Sta. 306+00.61, 16.0' Rt.
r	1	Each	Sta. 306+06.38, 16.0' Rt.

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet M5 of M11

TRACS No. SS975 01C

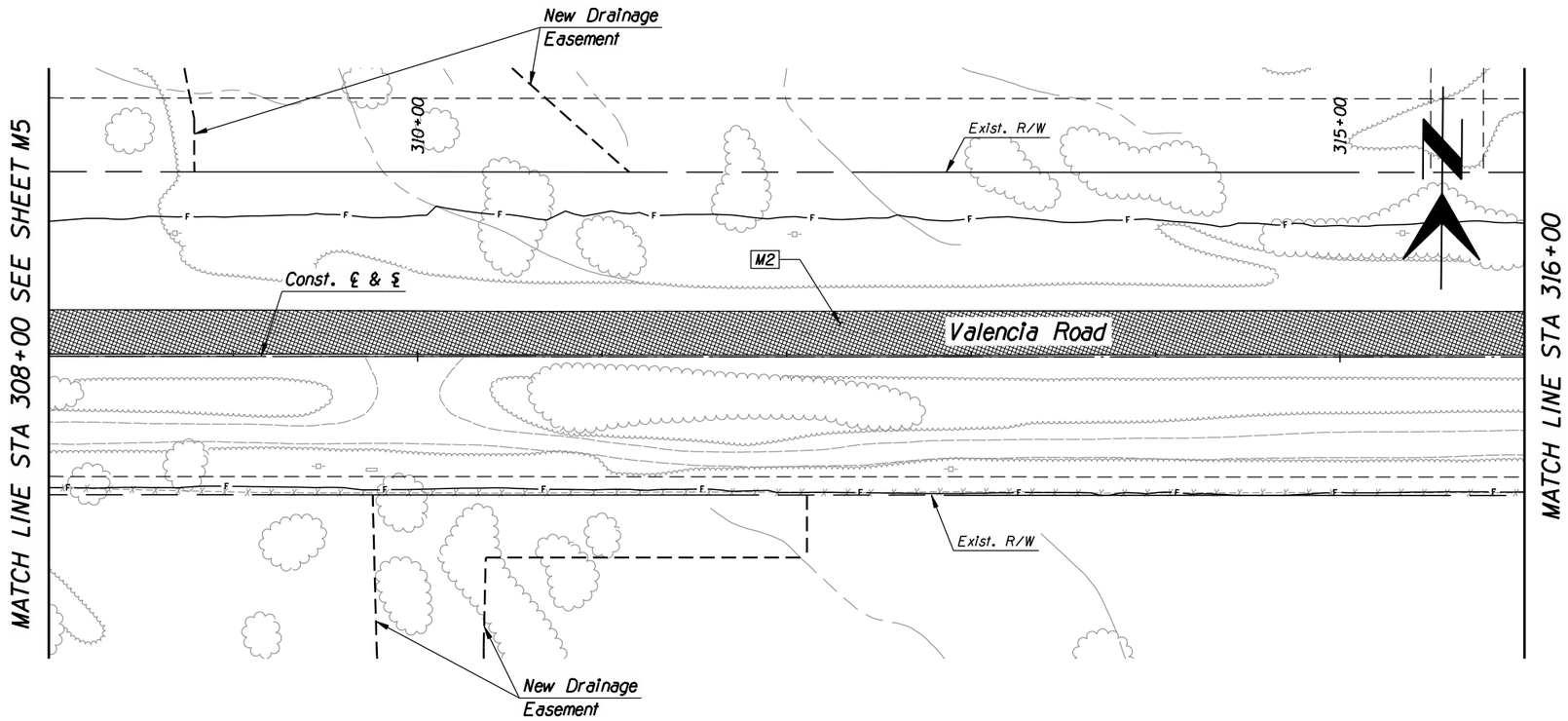
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

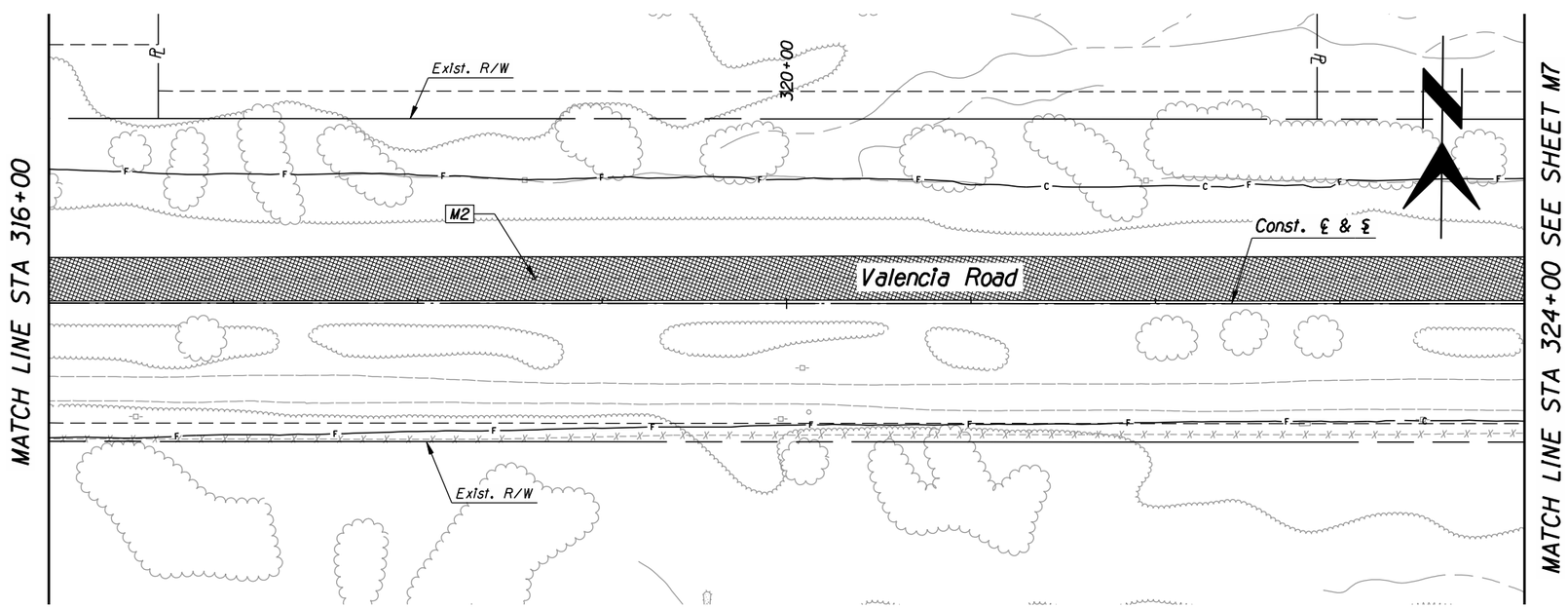
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\08C-01.dgn
Model: B08C05

Printed By: aledesma Date: 09\07\11 11:00:05 AM

Print Scale: 1:80





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M2	4,226	S.Y.	Removal of Bituminous Pav't
M5	5.55	Ac.	Clear & Grub

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

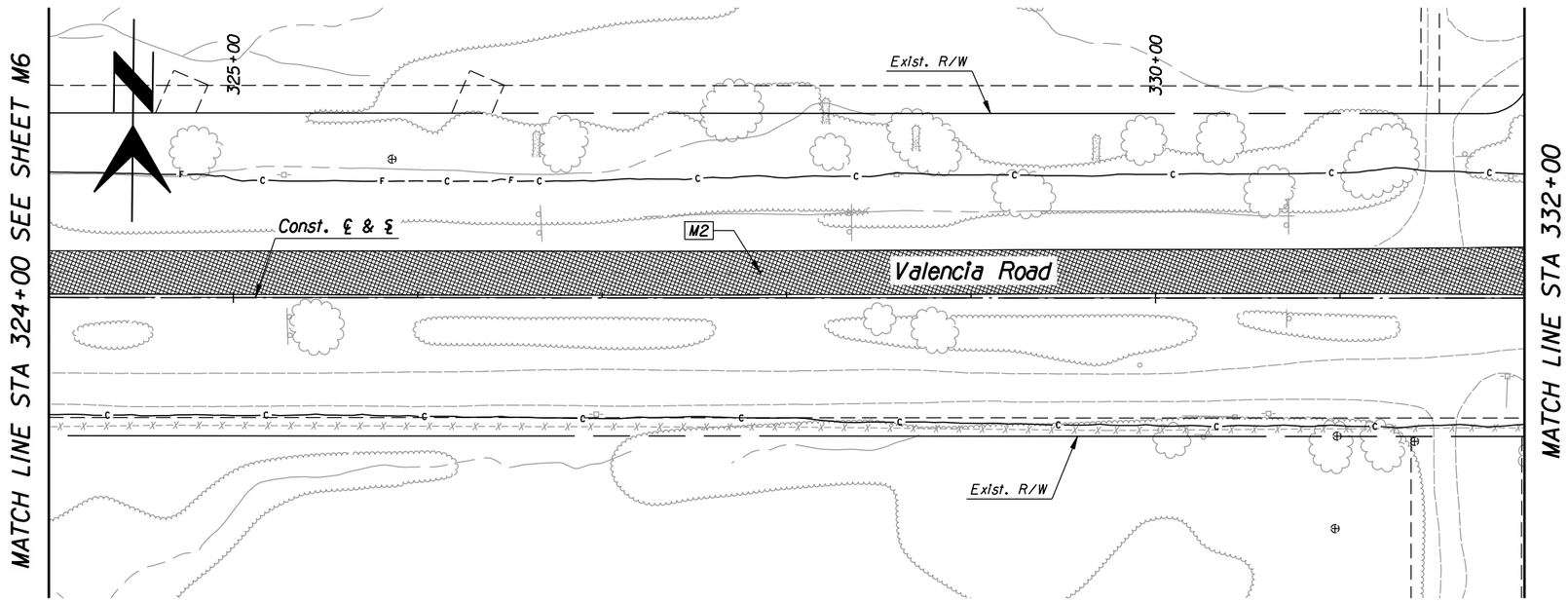
40 0 40 80

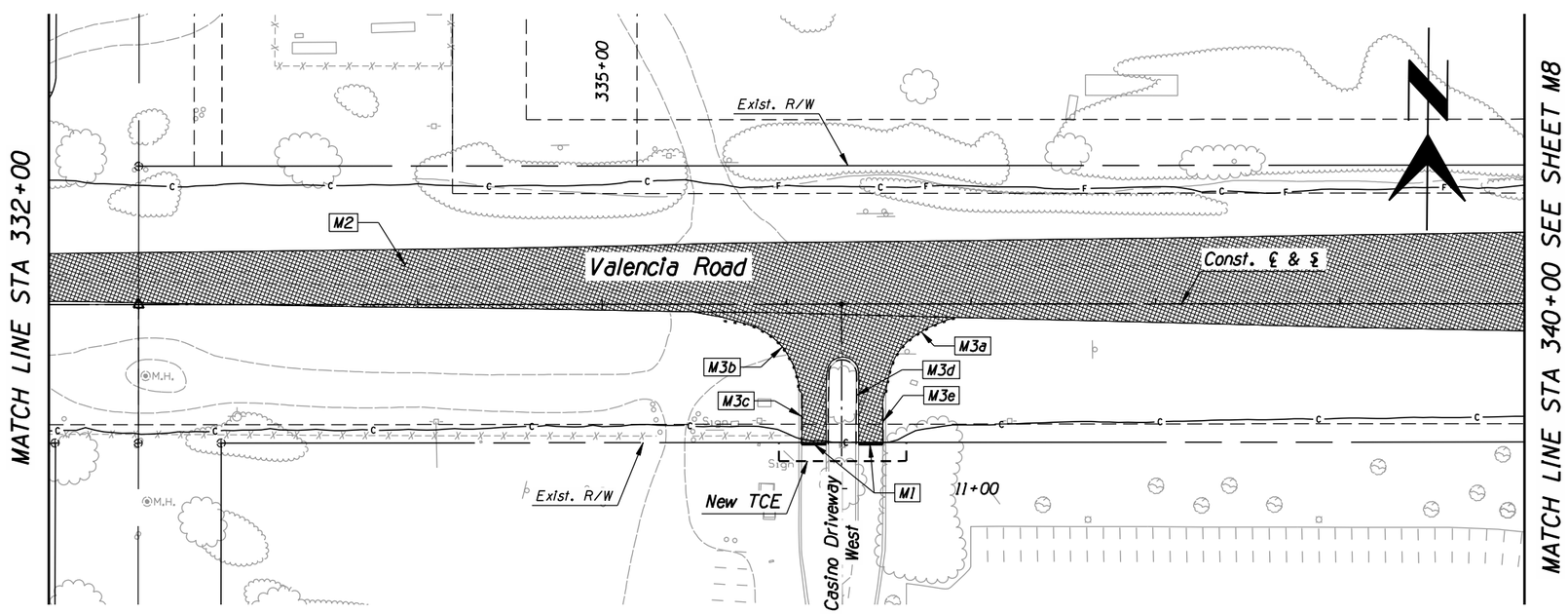
Scales	Horiz. 1" = 40' Vert. 1" = 4'	Sheet M6 of M11	Page 29 of 148

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M1	26	L.F.	Sawcut Pavement
a	26	L.F.	Sta. 10+76.00, 22.2' Lt. to Sta. 10+76.00, 21.7' Rt.
M2	5,954	S.Y.	Removal of Bituminous Pav't
M3	272	L.F.	Removal of Curb
a	60	L.F.	Header-Sta. 10+07.29, 61.8' Lt. to Sta. 10+47.97, 23.9' Lt.
b	61	L.F.	Header-Sta. 10+08.83, 63.7' Rt. to Sta. 10+46.53, 23.2' Rt.
c	27	L.F.	C&G-Sta. 10+48.55, 21.6' Rt. to Sta. 10+76.00, 21.7' Rt.
d	100	L.F.	C&G-Sta. 10+76.00, 8.5' Rt. to Sta. 10+76.00, 9.1' Lt.
e	24	L.F.	C&G-Sta. 10+51.73, 22.3' Lt. to Sta. 10+76.00, 22.2' Lt.
M5	4.72	Ac.	Clear & Grub

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

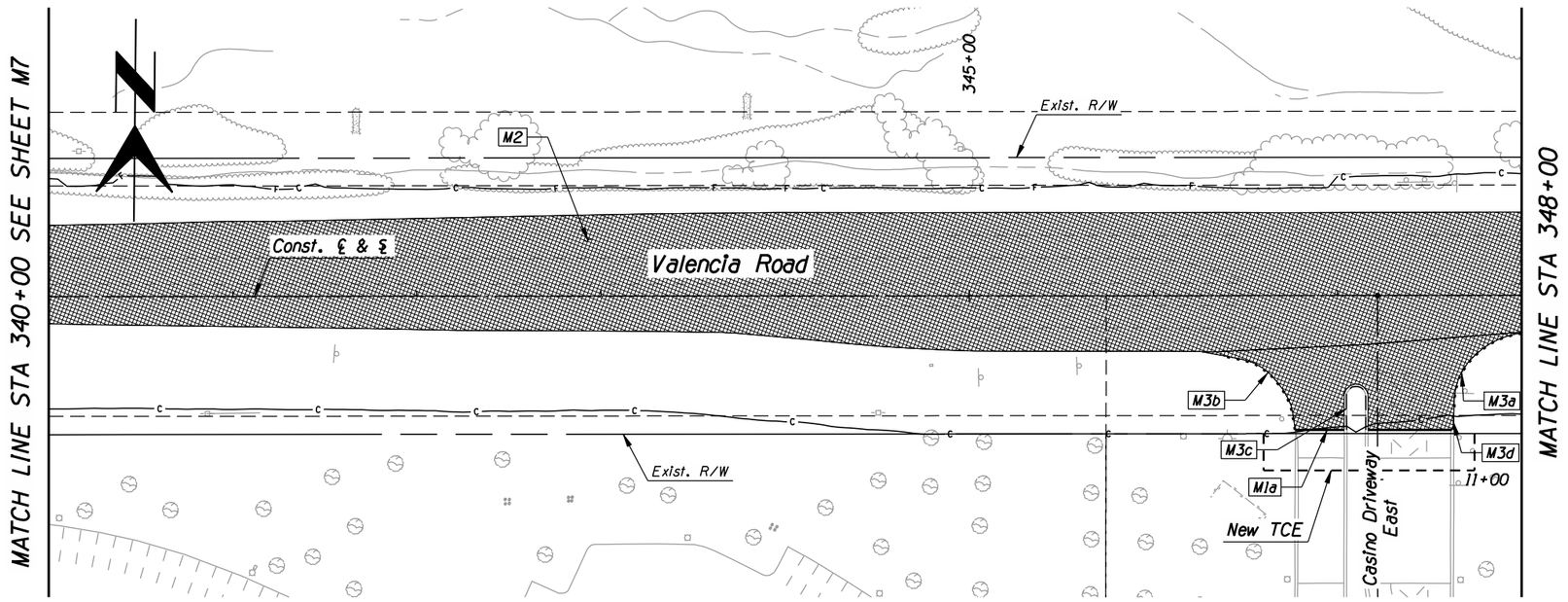
40 0 40 80

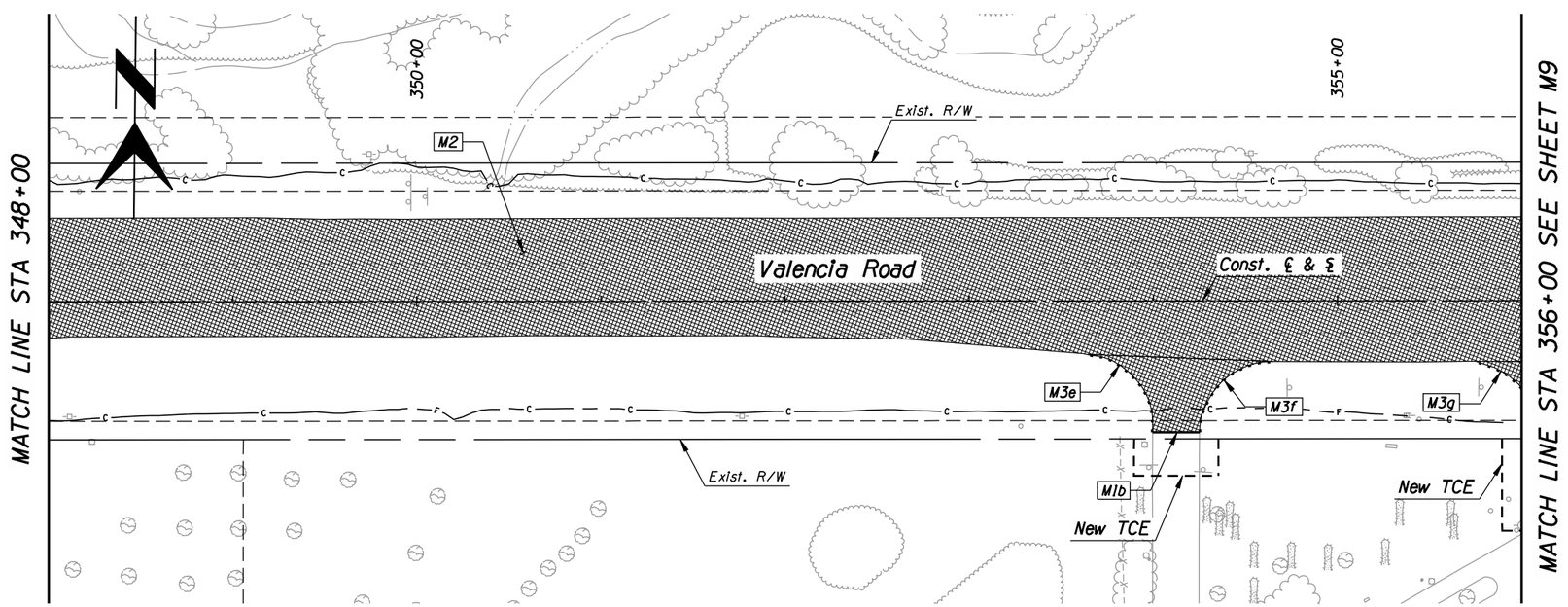
Scales	Horiz. 1" = 40'	Sheet M7 of M11	Page 30 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M1	97	L.F.	Sawcut Pavement
a	38	L.F.	Sta. 10+73.01, 40.2' Lt. to Sta. 10+73.00, 44.8' Rt.
b	32	L.F.	Sta. 353+99.59, 71.4' Rt. to Sta. 354+25.06, 71.4' Rt.
M2	12,723	S.Y.	Removal of Bituminous Pav't
M3	65	L.F.	Removal of Curb
a	54	L.F.	Header-Sta. 10+20.47, 78.2' Lt. to Sta. 10+62.12, 41.4' Lt.
b	11	L.F.	Header-Sta. 10+32.80, 83.2' Rt. to Sta. 10+73.00, 44.8' Rt.
c	11	L.F.	C&G-Sta. 10+73.00, 5.3' Rt. to Sta. 10+73.00, 18.2' Rt.
d	11	L.F.	C&G-Sta. 10+62.12, 41.4' Lt. to Sta. 10+73.01, 40.2' Lt.
e	11	L.F.	C&G-Sta. 353+62.81, 28.8' Rt. to Sta. 353+99.59, 71.4' Rt.
f	11	L.F.	C&G-Sta. 354+64.60, 33.0' Rt. to Sta. 354+25.06, 71.4' Rt.
g	11	L.F.	C&G-Sta. 355+75.32, 33.1' Rt. to Sta. 355+99.97, 47.6' Rt.
M5	2.87	Ac.	Clear & Grub

Priscilla S. Cornelio, P.E., Director

	Date
Designed	KAM 04/2011
Drawn	KAM, JMF 04/2011
Checked	RDB 04/2011
Proj. Engr.	RDB 04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet M8 of M11

Page 31 of 148

TRACS No. SS975 01C

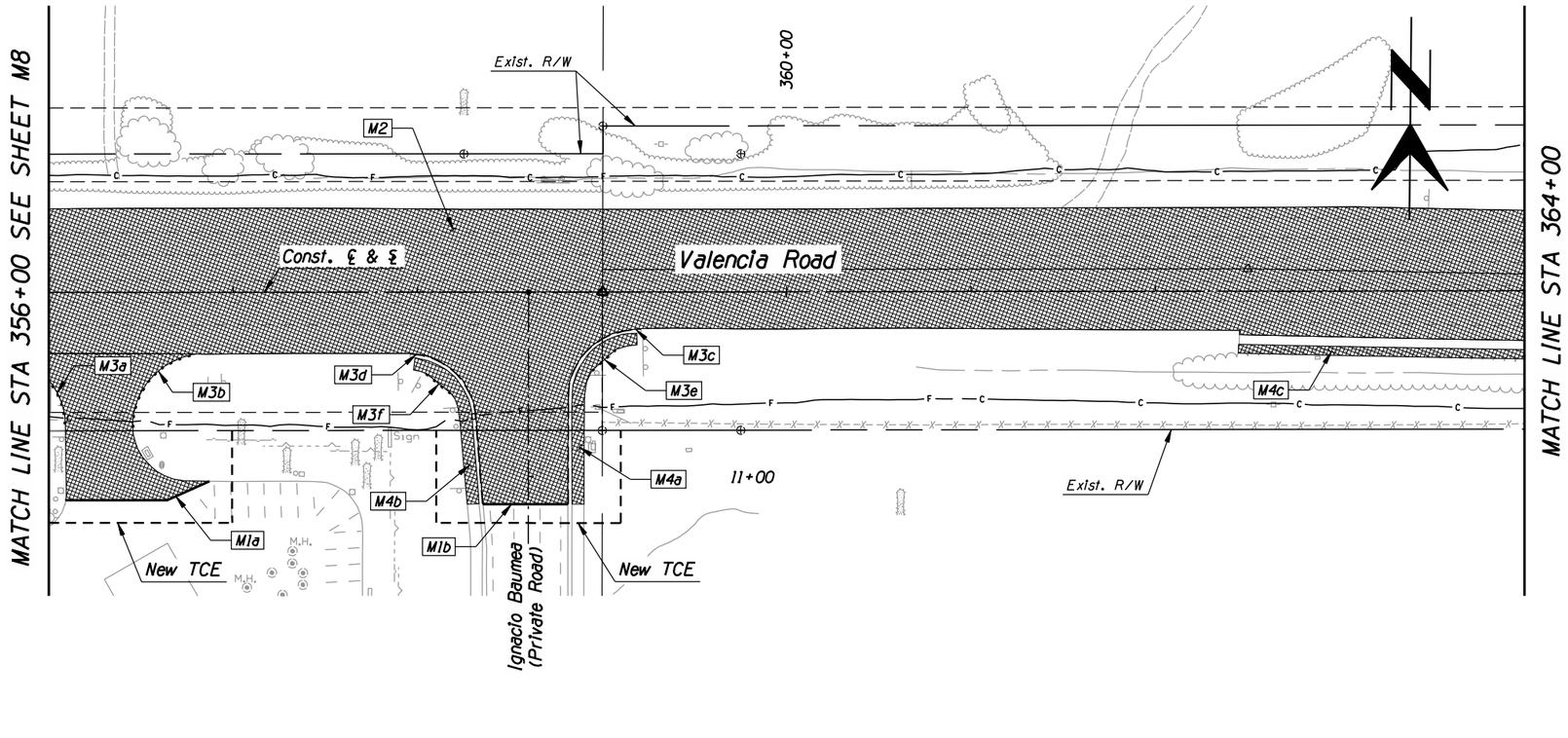
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

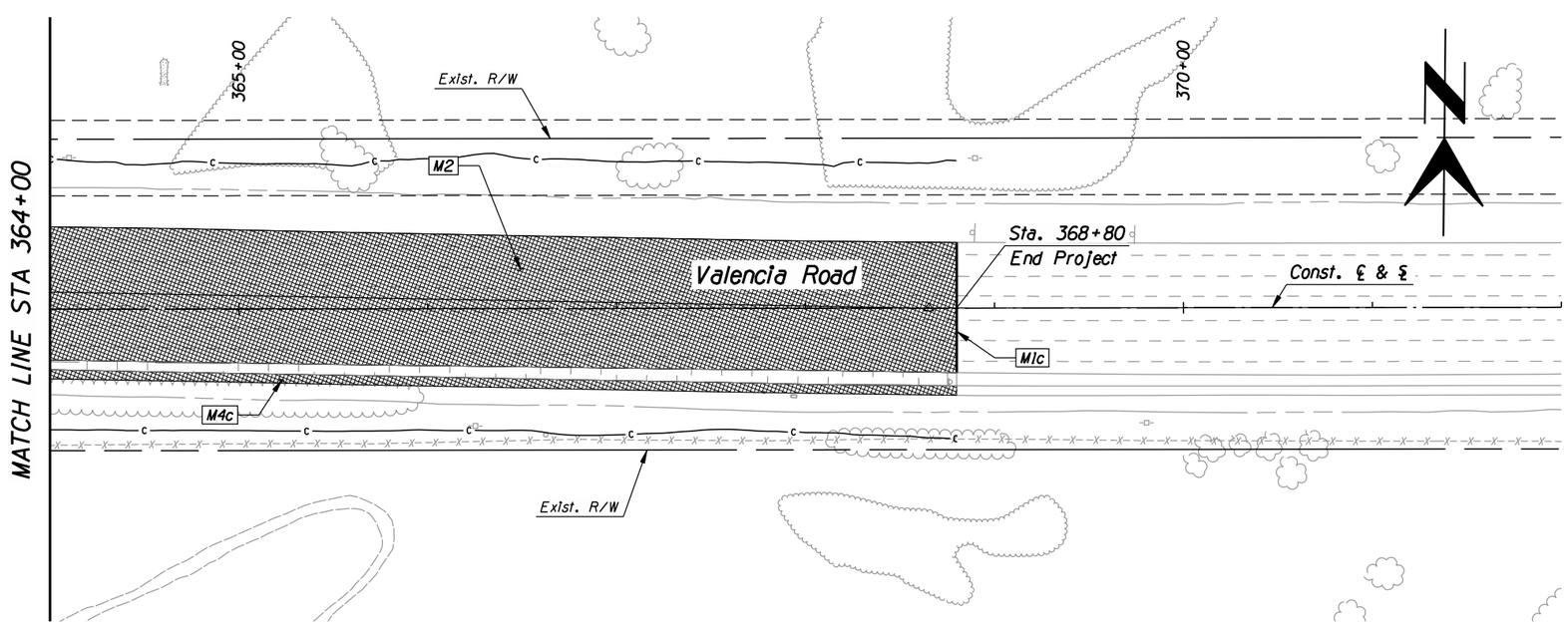
Project ID: 00000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\08C-01.dgn
Model: B08C08

Printed By: aledesma Date: 09\07\11 11:00:13 AM

Print Scale: 1:80





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M1	195	L.F.	Sawcut Pavement
a	80	L.F.	Sta. 356+09.06, 112.7' Rt. to Sta. 356+86.97, 102.5' Rt.
b	46	L.F.	Sta. 11+15.00, 23.6' Lt. to Sta. 11+15.00, 24.6' Rt.
c	69	L.F.	Sta. 368+80.00, 34.8' Lt. to Sta. 368+80.00, 34.2' Rt.
M2	10,966	S.Y.	Removal of Bituminous Pav't
M3	335	L.F.	Removal of Curb
a	26	L.F.	Header-Sta. 355+99.97, 47.6' Rt. to Sta. 356+08.95, 71.6' Rt.
b	56	L.F.	Header-Sta. 356+45.51, 73.4' Rt. to Sta. 356+78.84, 33.6' Rt.
c	101	L.F.	C&G-Sta. 10+19.69, 60.8' Lt. to Sta. 11+15.00, 21.4' Lt.
d	118	L.F.	C&G-Sta. 10+33.44, 64.3' Rt. to Sta. 11+15.00, 24.6' Rt.
e	17	L.F.	Curb-Sta. 10+31.41, 47.1' Lt. to Sta. 10+42.71, 34.4' Lt.
f	17	L.F.	Curb-Sta. 10+44.51, 55.7' Rt. to Sta. 10+55.09, 42.4' Rt.
M4	494	S.Y.	Removal of Misc. Concrete
a	69	S.Y.	Sidewalk & Ramp-Sta. 10+35.85, 81.6' Rt. to Sta. 11+15.00, 26.7' Rt.
b	82	S.Y.	Sidewalk & Ramp-Sta. 10+22.18, 58.5' Lt. to Sta. 11+15.00, 23.6' Lt.
c	343	S.Y.	Sidewalk & Ramp-Sta. 362+45.12, 28.9' Rt. to Sta. 368+80.00, 41.1' Rt.
M5	2.48	Ac.	Clear & Grub

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

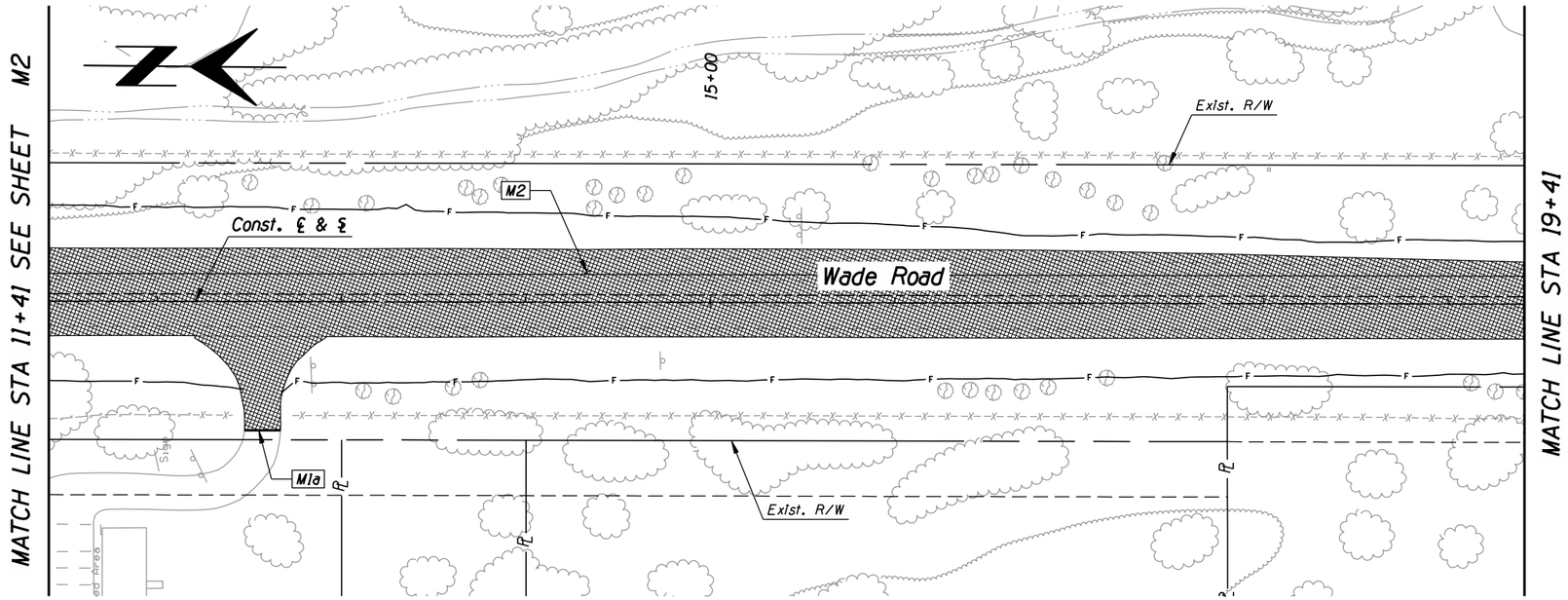
40 0 40 80

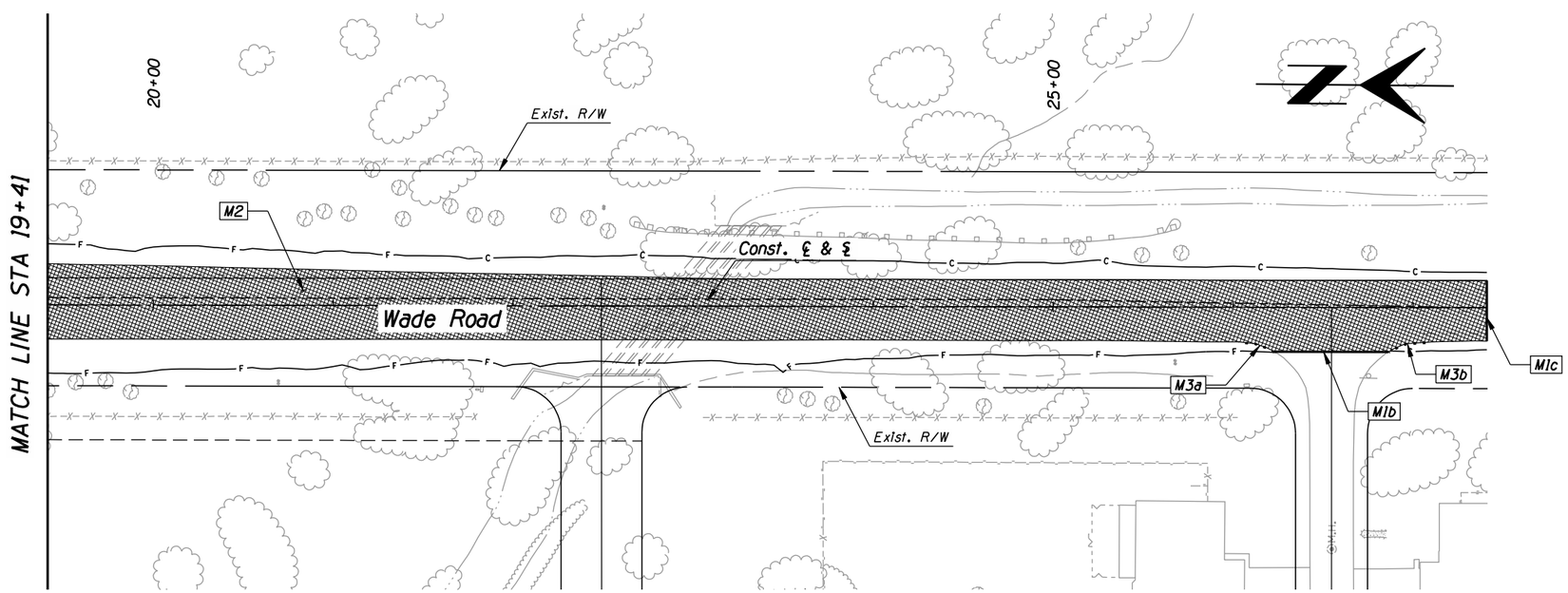
Scales	Horiz. 1" = 40'	Sheet M9 of M11	Page 32 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_Vbhalf_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M1	117	L.F.	Sawcut Pavement
a	20	L.F.	Sta. 12+47.51, 69.8' Rt. to Sta. 12+67.13, 69.8' Rt.
b	63	L.F.	Sta. 26+23.12, 24.6' Rt. to Sta. 26+86.44, 24.6' Rt.
c	34	L.F.	Sta. 27+41.00, 15.1' Lt. to Sta. 27+41.00, 18.5' Rt.
M2	7,570	S.Y.	Removal of Bituminous Pav't
M3	40	L.F.	Removal of Curb
a	19	L.F.	Header-Sta. 26+04.80, 19.4' Rt. to Sta. 26+23.12, 24.6' Rt.
b	21	L.F.	Header-Sta. 26+86.44, 24.6' Rt. to Sta. 27+06.98, 19.3' Rt.
M5	3.26	Ac.	Clear and Grub

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

DEMOLITION PLANS

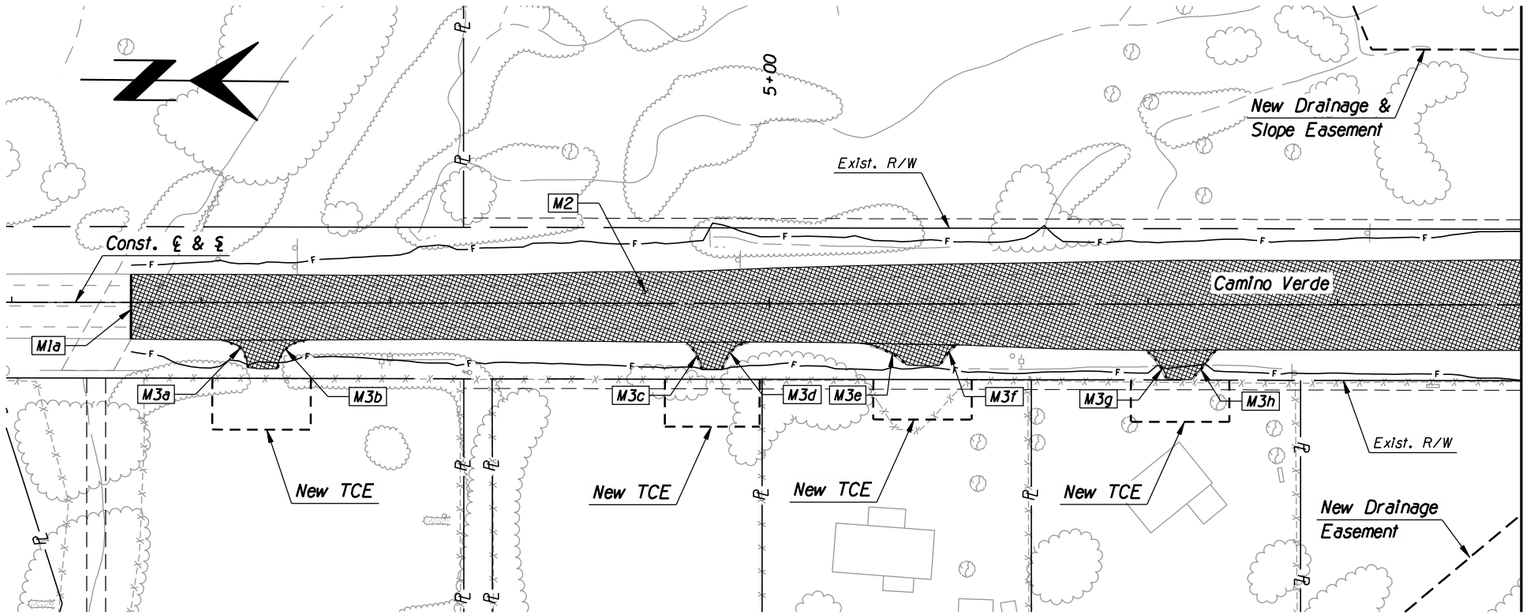
40 0 40 80

Scales	Horiz. 1" = 40'	Sheet M10 of M11	Page 33 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_Vthalf_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
M1	34	L.F.	Sawcut Pavement
a	38	L.F.	Sta. 231+00.00, 25.5' Lt. to Sta. 231+00.00, 12.4' Rt.
M2	3,320	S.Y.	Removal of Bituminous Pav't
M3	147	L.F.	Removal of Curb
a	22	L.F.	Header-Sta. 2+11.62, 20.0' Rt. to Sta. 2+25.08, 34.3' Rt.
b	22	L.F.	Header-Sta. 2+40.40, 34.3' Rt. to Sta. 2+54.43, 20.1' Rt.
c	16	L.F.	Header-Sta. 4+56.62, 20.9' Rt. to Sta. 4+64.63, 34.8' Rt.
d	21	L.F.	Header-Sta. 4+74.87, 34.3' Rt. to Sta. 4+88.84, 20.5' Rt.
e	20	L.F.	Header-Sta. 5+53.79, 21.7' Rt. to Sta. 5+71.31, 30.9' Rt.
f	12	L.F.	Header-Sta. 5+90.44, 31.3' Rt. to Sta. 5+98.46, 21.9' Rt.
g	17	L.F.	Header-Sta. 7+00.14, 25.1' Rt. to Sta. 7+09.99, 38.9' Rt.
h	17	L.F.	Header-Sta. 7+24.67, 37.6' Rt. Sta. 7+35.62, 24.5' Rt.
M5	0.66	Ac.	Clear & Grub

DEMOLITION PLANS

40 0 40 80

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40' Vert. 1"=4'	Sheet M11 of M11	Page 34 of 148

TRACS No. SS975 01C

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\08C-01.dgn
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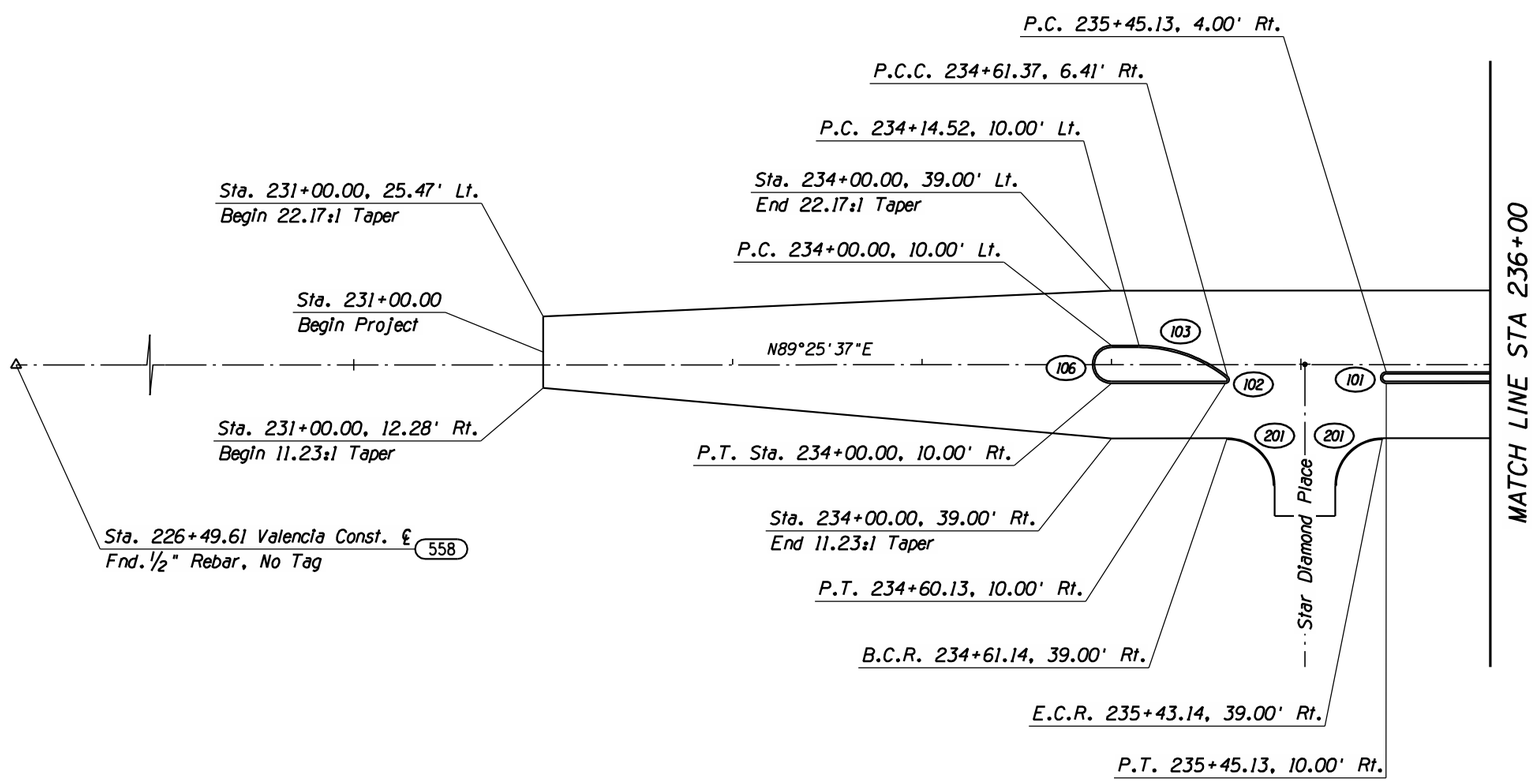
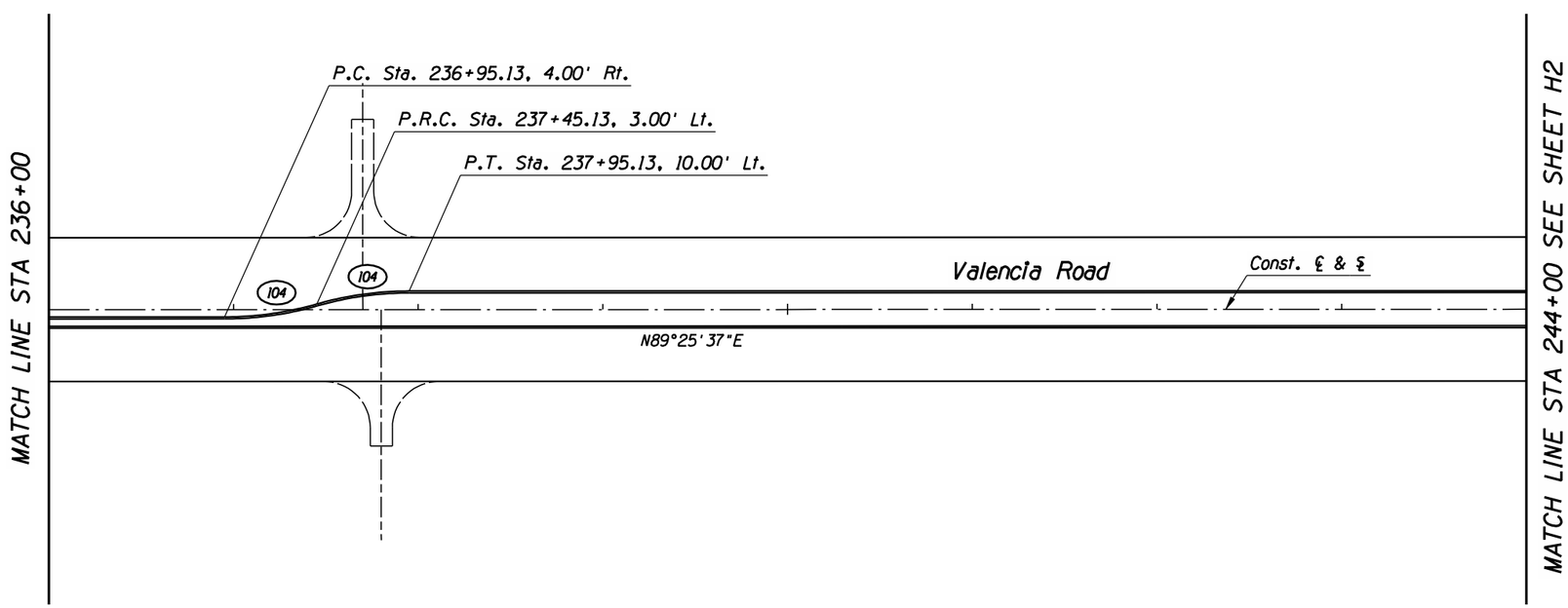




F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

COORDINATE TABLE

NO.	NORTHING	EASTING
558	413195.9388	945766.0566

CURVE DATA

NO.	R	Δ	L	T
101	3.00'	180°00'00"	9.42'	N/A
102	2.00'	141°20'09"	4.93'	5.70'
103	75.00'	38°39'51"	50.61'	26.31'
104	182.07'	15°56'21"	50.65'	25.49'
106	10.00'	180°00'00"	31.42'	N/A
201	25.00'	90°00'00"	39.27'	25.00'

GEOMETRIC LAYOUT

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet H1 of H9

Page 35 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

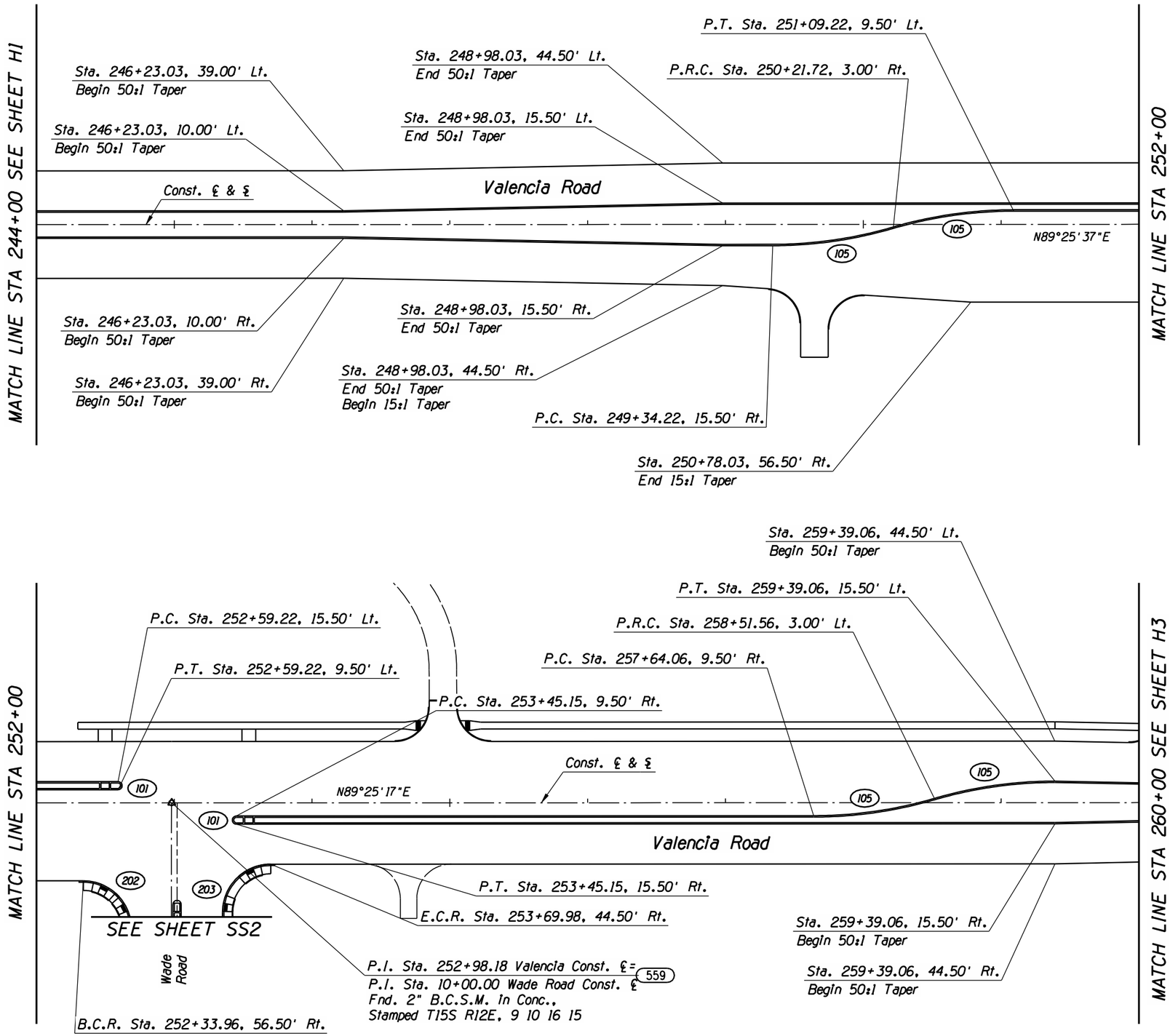
		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\01C-01.dgn
Model: B01C01
Printed By: aledesma Date: 09\07\11 10:58:18 AM
Print Scale: 1:80



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

COORDINATE TABLE

NO.	NORTHING	EASTING
559	413222.4226	948414.4968

CURVE DATA

NO.	R	Δ	L	T
101	3.00'	180°00'00"	9.42'	N/A
105	312.50'	16°15'37"	88.69'	44.64'
202	35.00'	90°08'27"	55.06'	35.09'
203	35.00'	89°51'12"	54.89'	34.91'

GEOMETRIC LAYOUT

40 0 40 80

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

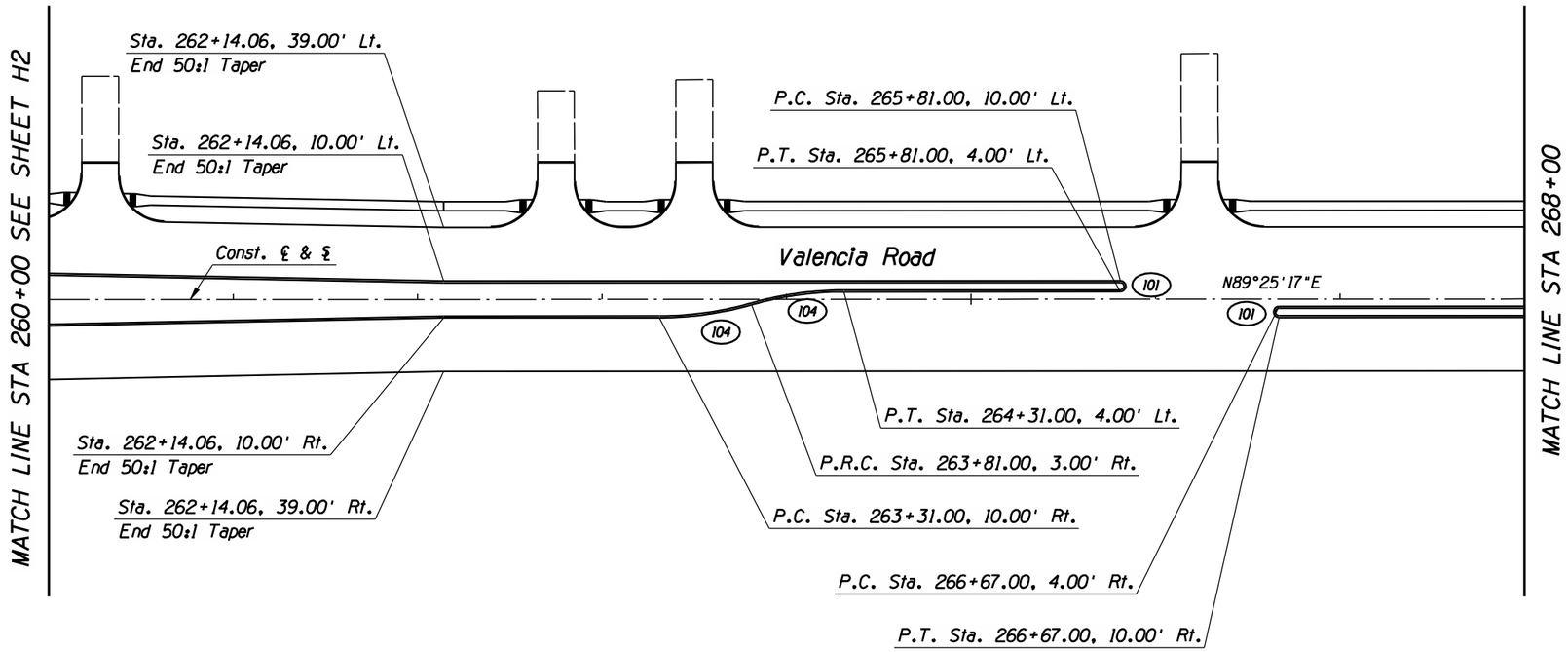
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

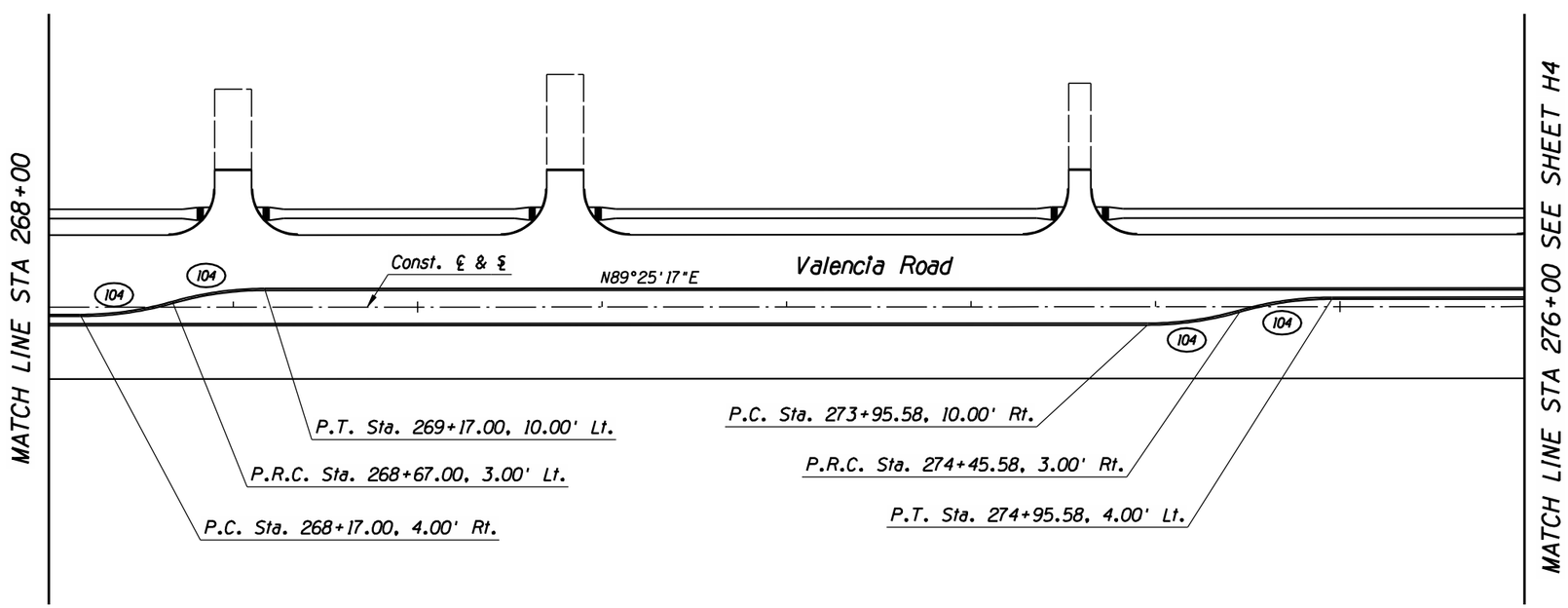
Scales	Horiz. 1" = 40'	Sheet H2 of H9	Page 36 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

CURVE DATA

NO.	R	Δ	L	T
101	3.00'	180°00'00"	9.42'	N/A
104	182.07'	15°56'21"	50.65'	25.49'

GEOMETRIC LAYOUT

40 0 40 80

Scales	Horiz. 1" = 40'	Sheet H3 of H9	Page 37 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

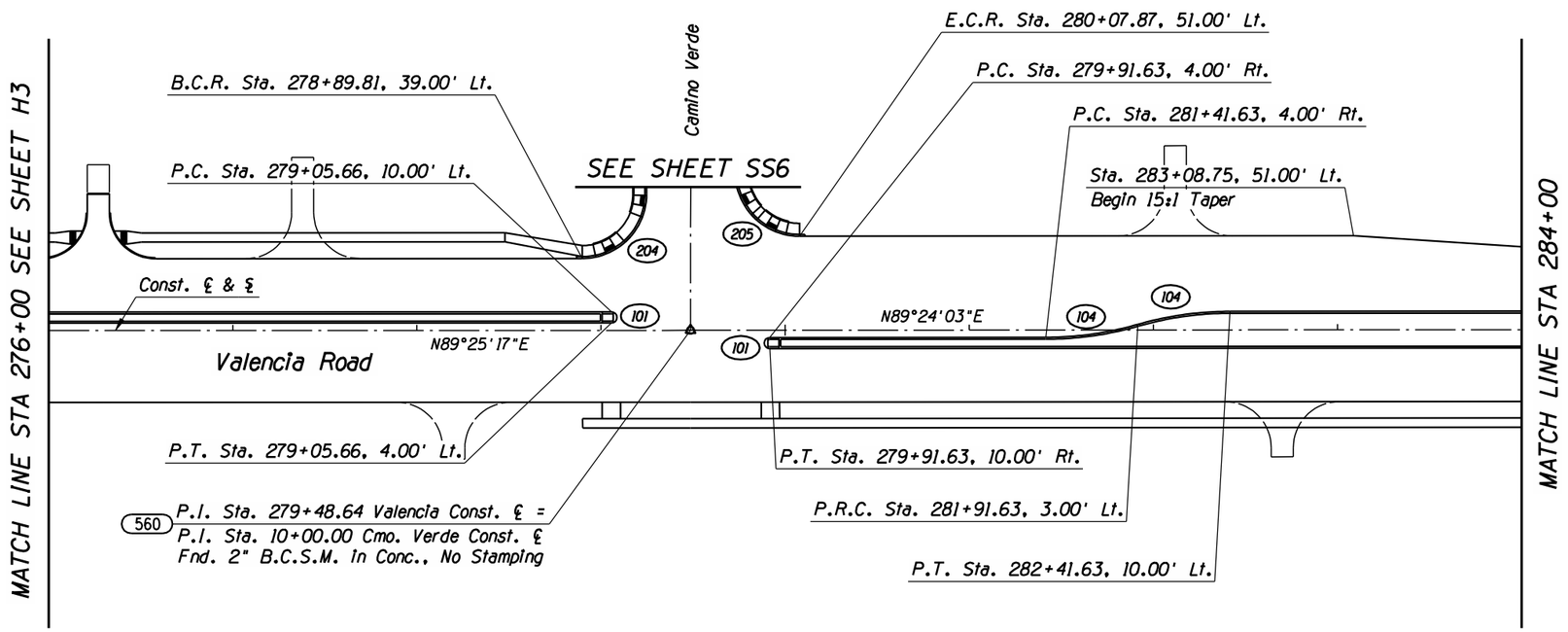
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

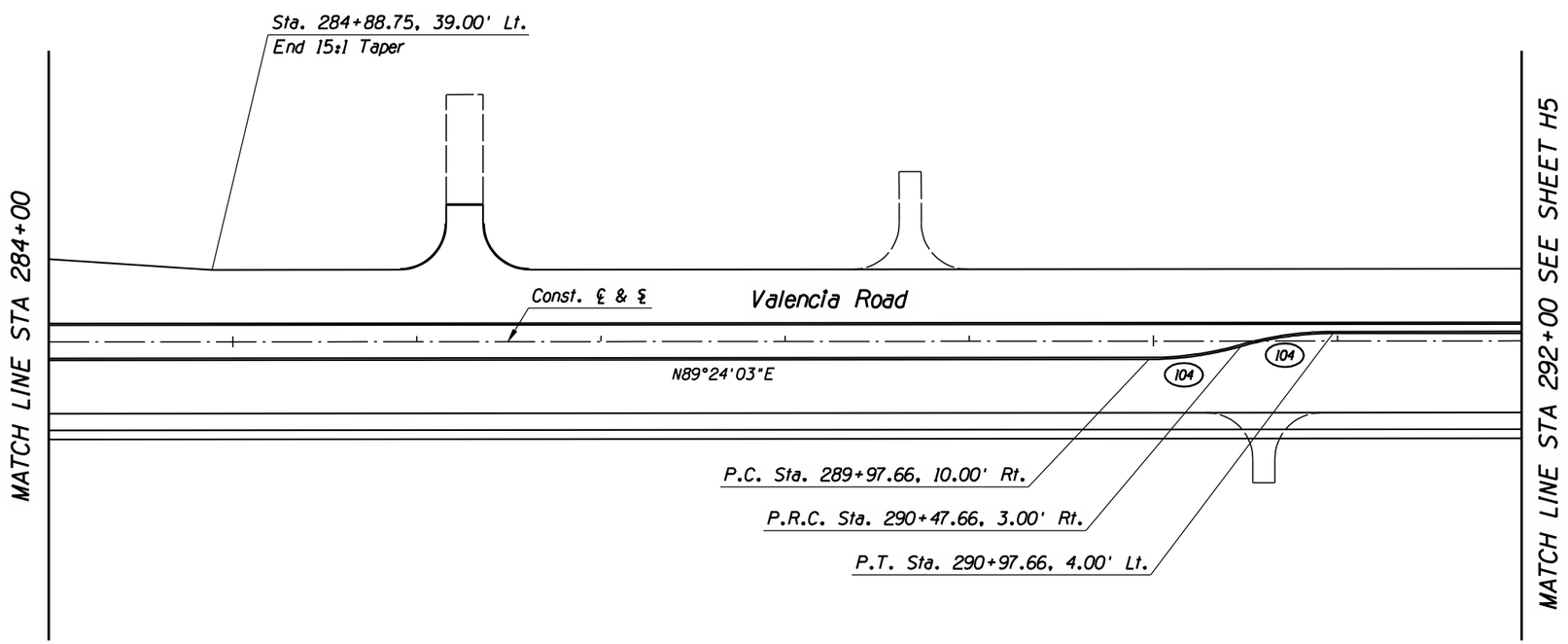
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

COORDINATE TABLE

NO.	NORTHING	EASTING
560	413249.1914	951064.8202

CURVE DATA

NO.	R	Δ	L	T
101	3.00'	180°00'00"	9.42'	N/A
104	182.07'	15°56'21"	50.65'	25.49'
204	35.00'	89°52'09"	54.90'	34.92'
205	35.00'	90°09'05"	55.07'	35.09'

GEOMETRIC LAYOUT

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet H4 of H9

Page 38 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

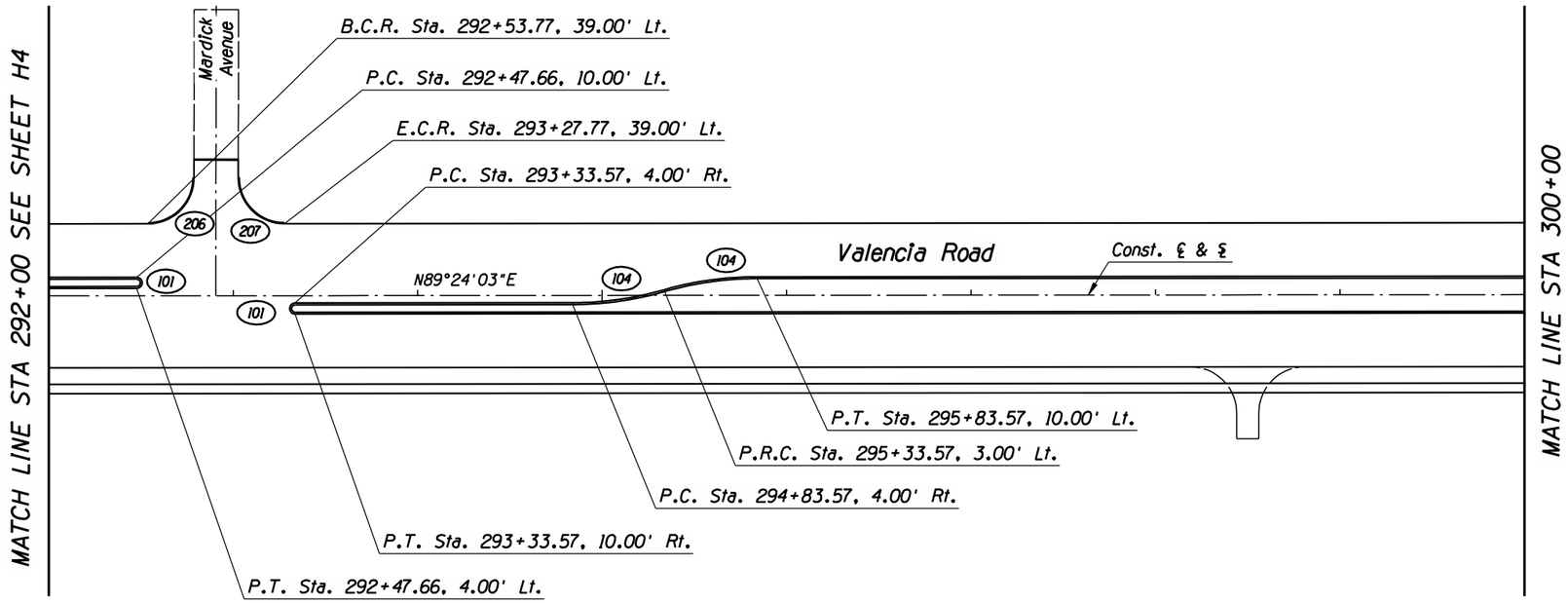
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

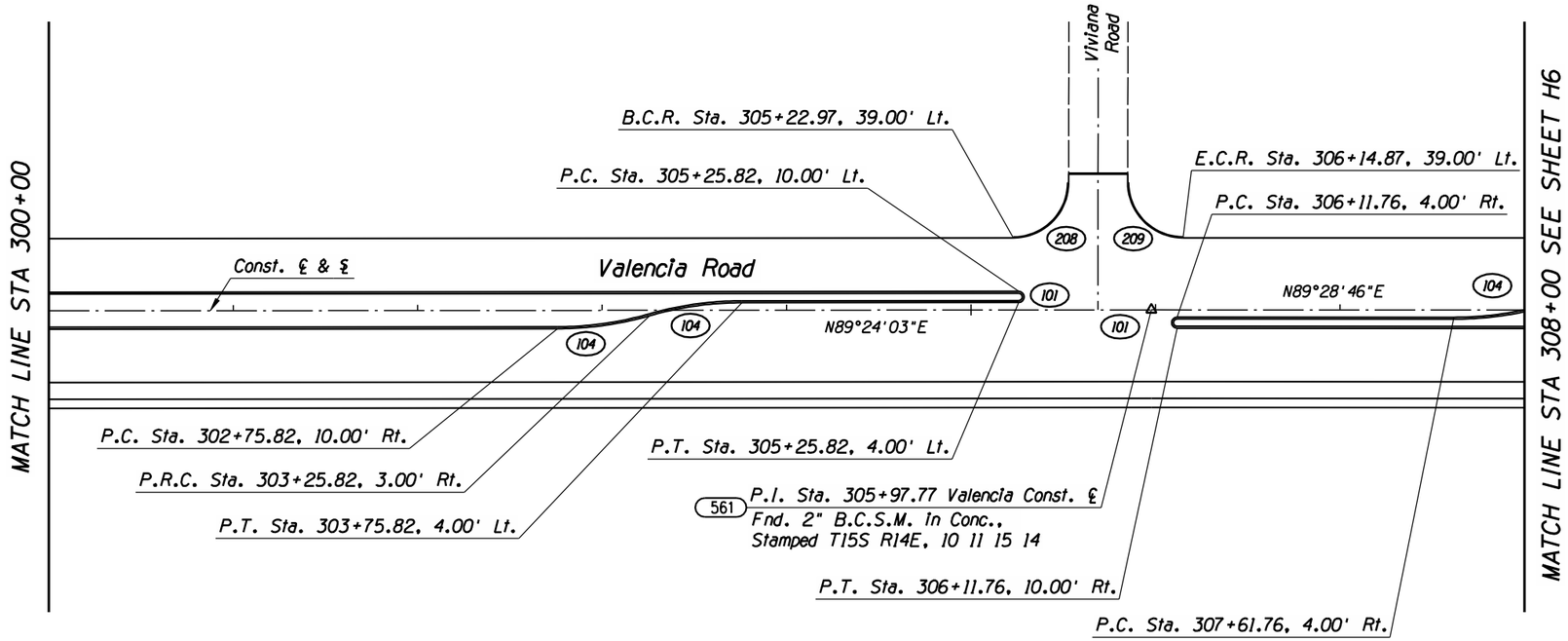
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

COORDINATE TABLE

NO.	NORTHING	EASTING
561	413276.8973	953713.8024

CURVE DATA

NO.	R	Δ	L	T
101	3.00'	180°00'00"	9.42'	N/A
104	182.07'	15°56'21"	50.65'	25.49'
206	25.00'	89°50'22"	39.20'	24.93'
207	25.00'	90°09'38"	39.34'	25.07'
208	30.00'	89°50'06"	47.04'	29.91'
209	30.00'	90°05'11"	47.17'	30.05'

Priscilla S. Cornelio, P.E., Director

Date	
04/2011	Designed KAM
04/2011	Drawn KAM, JMF
04/2011	Checked RDB
04/2011	Proj. Engr. RDB

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

GEOMETRIC LAYOUT

40 0 40 80

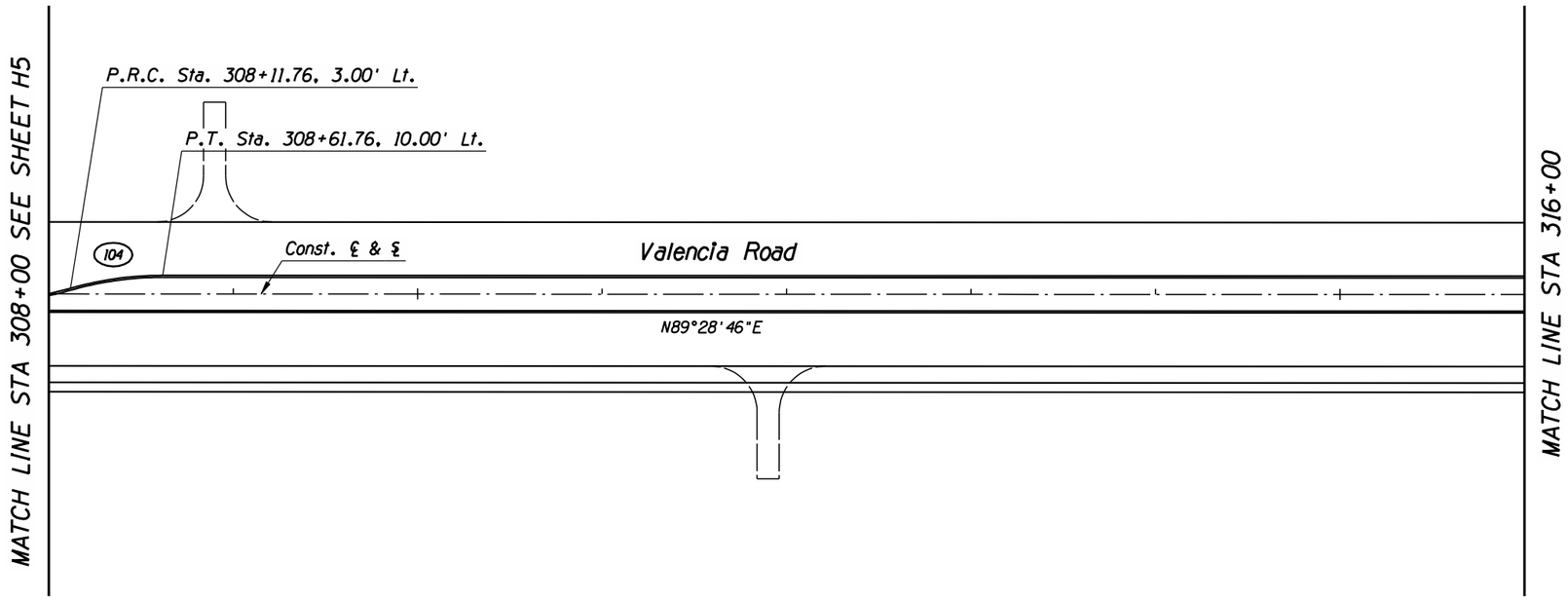
Scales: Horiz. 1" = 40' Vert. 1" = 4'

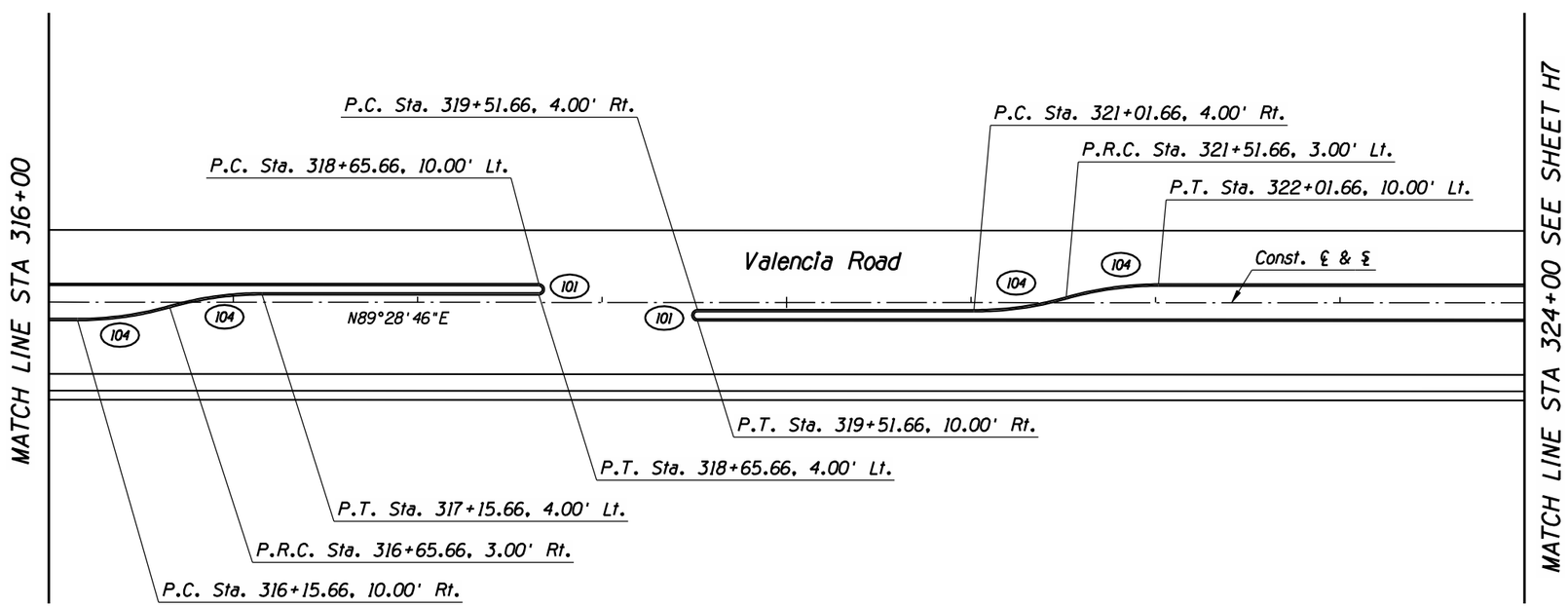
Sheet H5 of H9

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM

CURVE DATA

NO.	R	Δ	L	T
101	3.00'	180°00'00"	9.42'	N/A
104	182.07'	15°56'21"	50.65'	25.49'

GEOMETRIC LAYOUT

40 0 40 80

Scales: Horiz. 1" = 40'; Vert. 1" = 4'

Sheet H6 of H9

Page 40 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

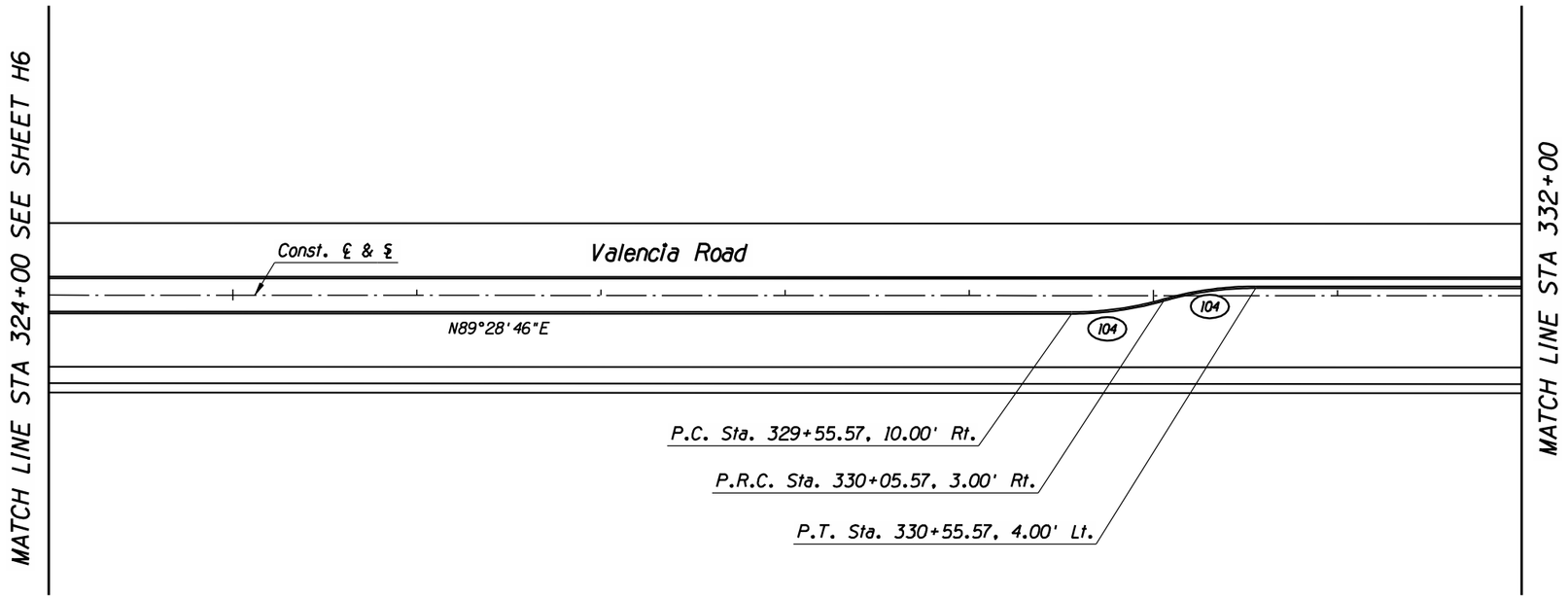
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

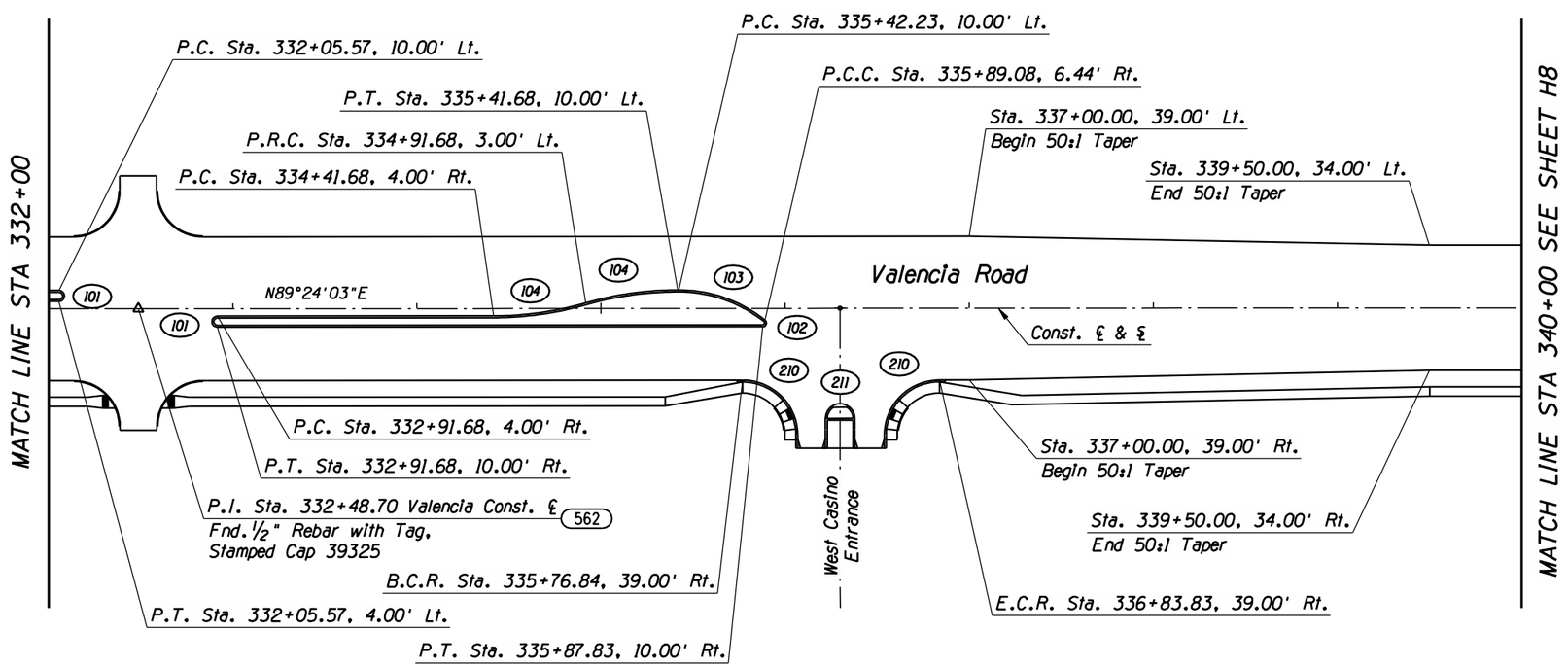
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM

COORDINATE TABLE

NO.	NORTHING	EASTING
562	413300.9878	956364.6229

CURVE DATA

NO.	R	Δ	L	T
101	3.00'	180°00'00"	9.42'	N/A
102	2.00'	141°20'09"	4.93'	5.70'
103	75.00'	38°39'51"	50.61'	26.31'
104	182.07'	15°56'21"	50.65'	25.49'
210	30.00'	90°00'00"	47.12'	30.00'
211	8.00'	180°00'00"	25.13'	N/A

Priscilla S. Cornelio, P.E., Director

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

GEOMETRIC LAYOUT

40 0 40 80

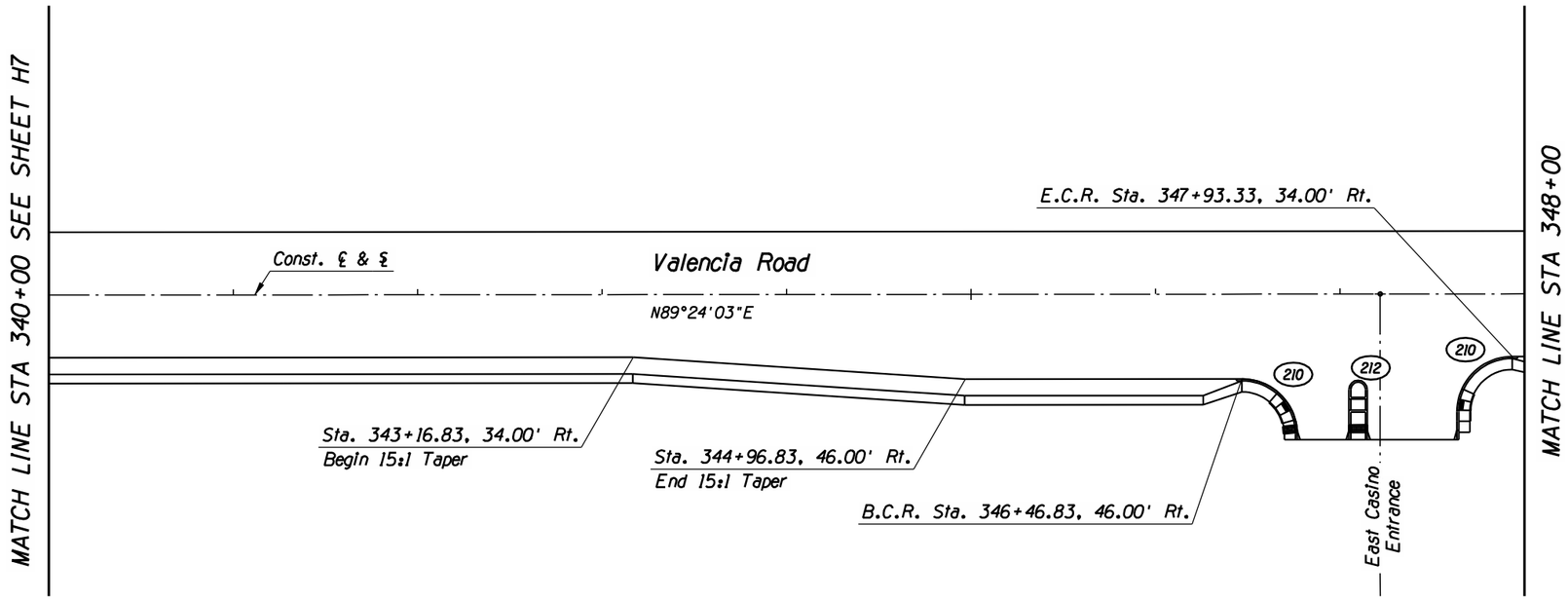
Scales	Horiz. 1" = 40'	Sheet H7 of H9	Page 41 of 148
	Vert. 1" = 4'		

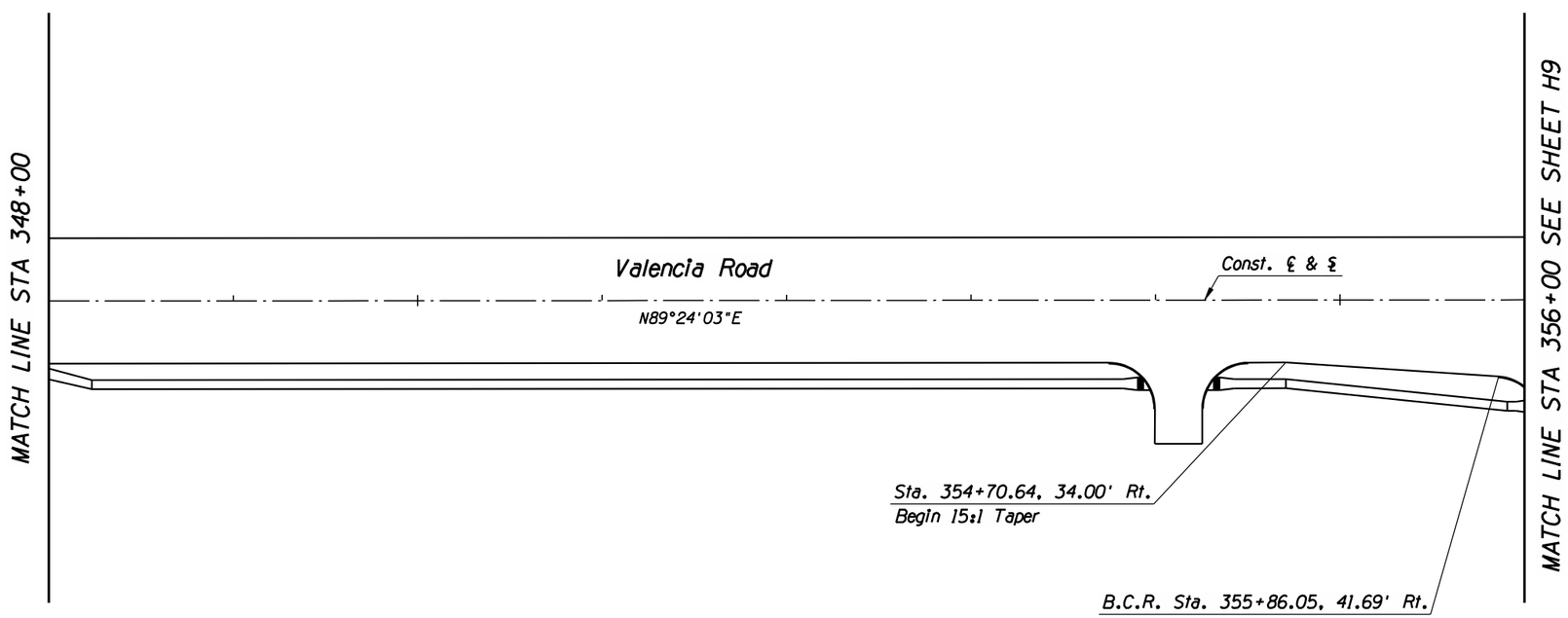
Print Scale: 1:80

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

CURVE DATA

NO.	R	Δ	L	T
210	30.00'	90°00'00"	47.12'	30.00'
212	5.00'	180°00'00"	15.71'	N/A

GEOMETRIC LAYOUT

40 0 40 80

Scales	Horiz. 1" = 40'
	Vert. 1" = 4'

Sheet H8 of H9

Page 42 of 148

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

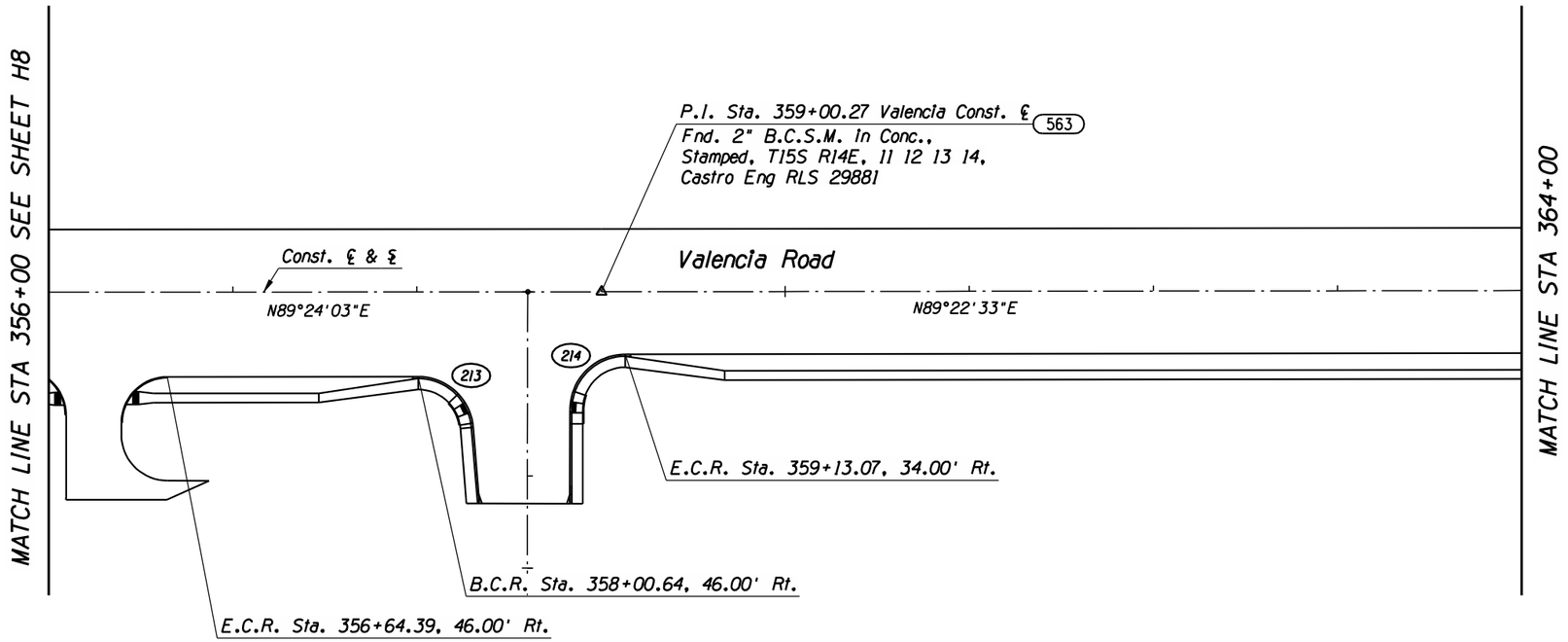
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

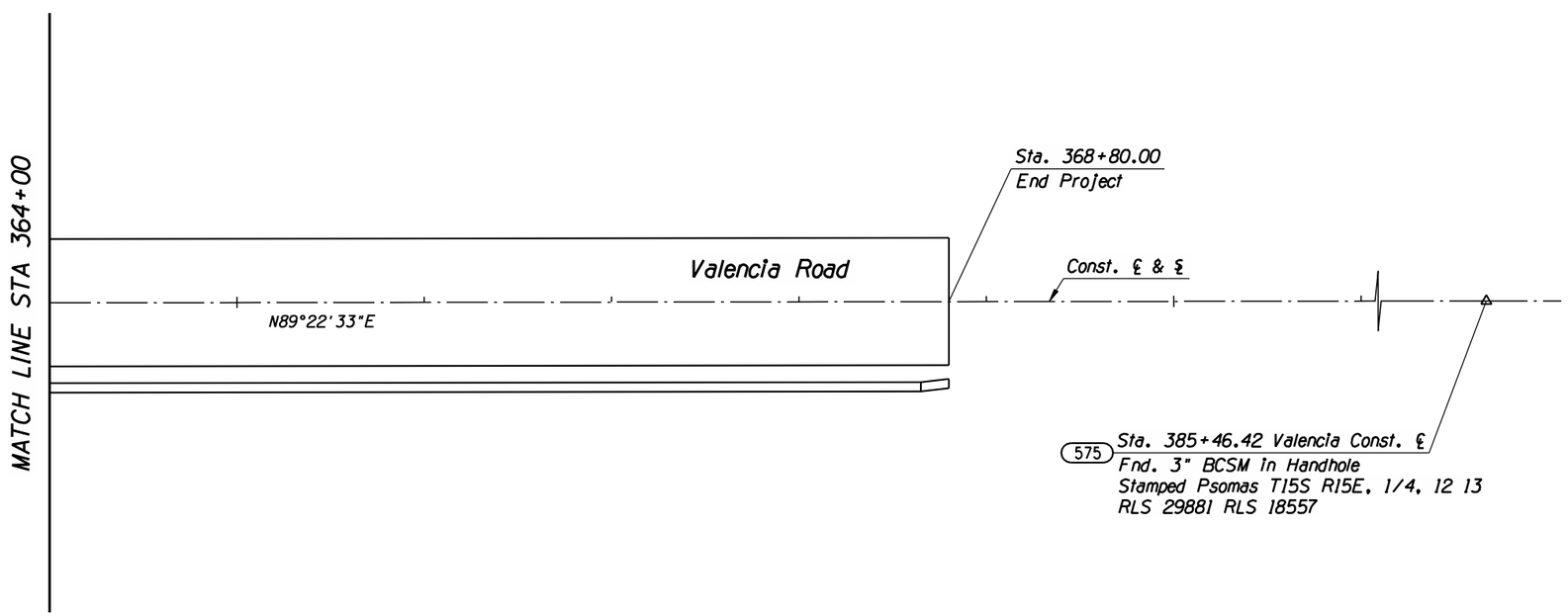
TRACS No. SS975 01C

Print Scale: 1:80

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM

COORDINATE TABLE

NO.	NORTHING	EASTING
563	413328.7137	959016.0505
575	413357.5448	961662.0403

CURVE DATA

NO.	R	Δ	L	T
213	30.00'	85°24'42"	44.72'	27.69'
214	30.00'	85°49'03"	47.03'	29.90'

GEOMETRIC LAYOUT

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet H9 of H9

Page 43 of 148

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\01C-01.dgn
Model: B01C09

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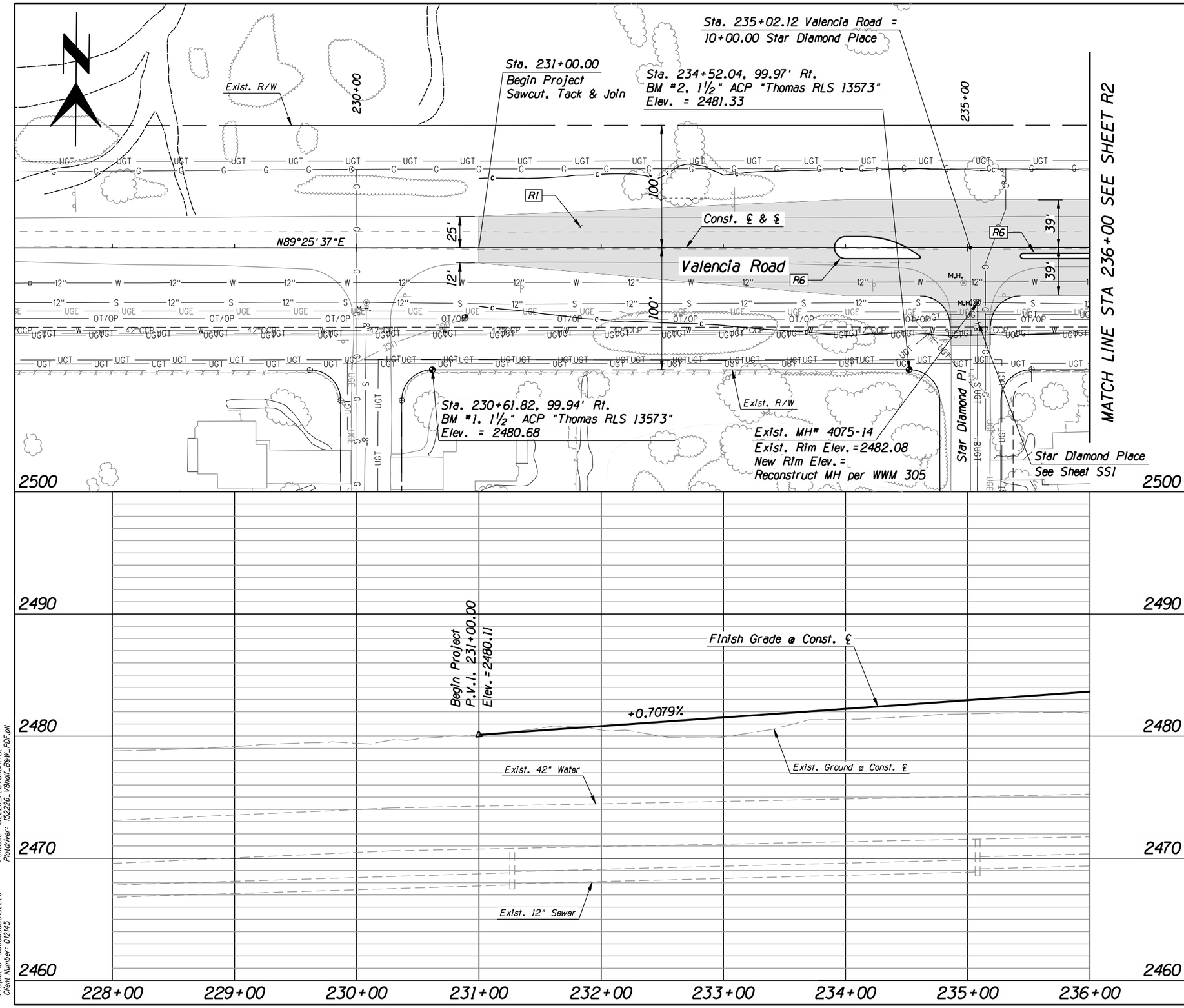
Print Scale: 1:80



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"

PAVING PLAN/PROFILE
STA. 228+00 TO 236+00

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet R1 of R18

Page 44 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

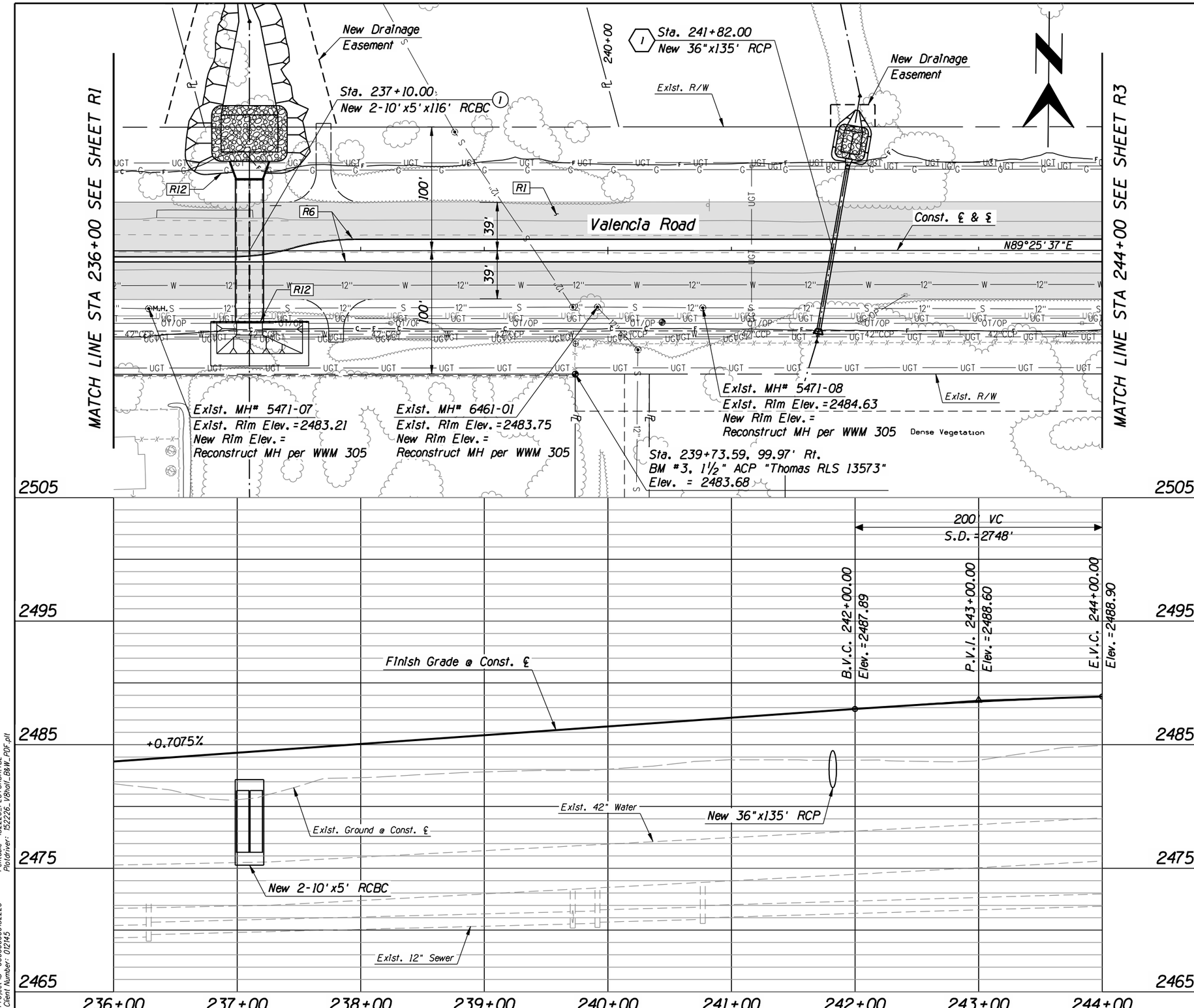
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Penlable: 152226_PL010R0R.TBL
Plotdriver: 152226_VBhall_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R12	--	L.F.	Barricade Railing PC/COT Std. Dtl. 105

Priscilla S. Cornelio, P.E., Director

		Date
Designed	ABJ	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

PAVING PLAN/PROFILE
STA. 236+00 TO 244+00

40 0 40 80

Scales Horiz. 1"=40' Vert. 1"=4'

Sheet R2 of R18

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
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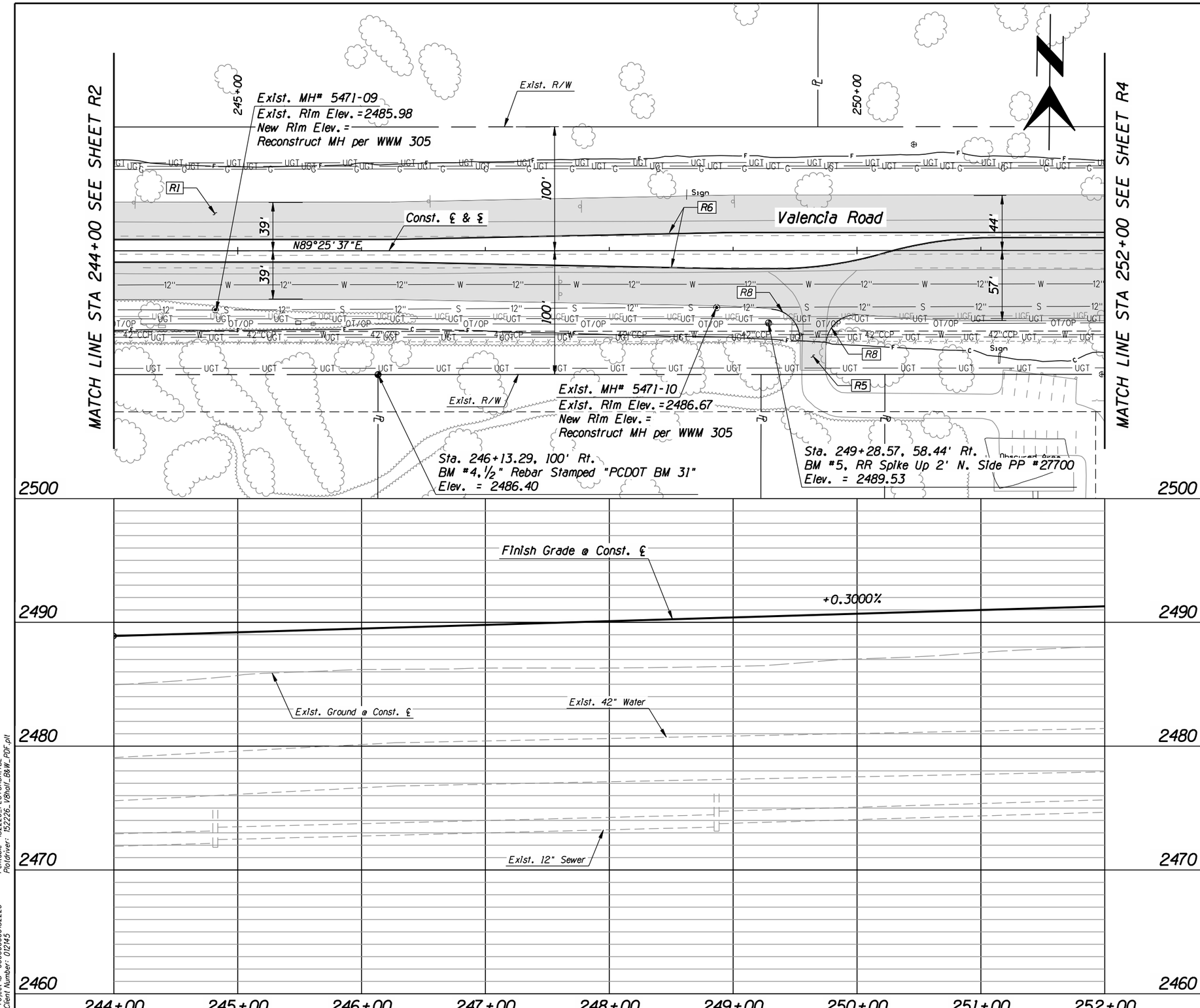

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213

PAVING PLAN/PROFILE
STA. 244+00 TO 252+00

40 0 40 80

Scales: Horiz. 1"=40' Vert. 1"=4'

Sheet R3 of R18

Page 46 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABI	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C02

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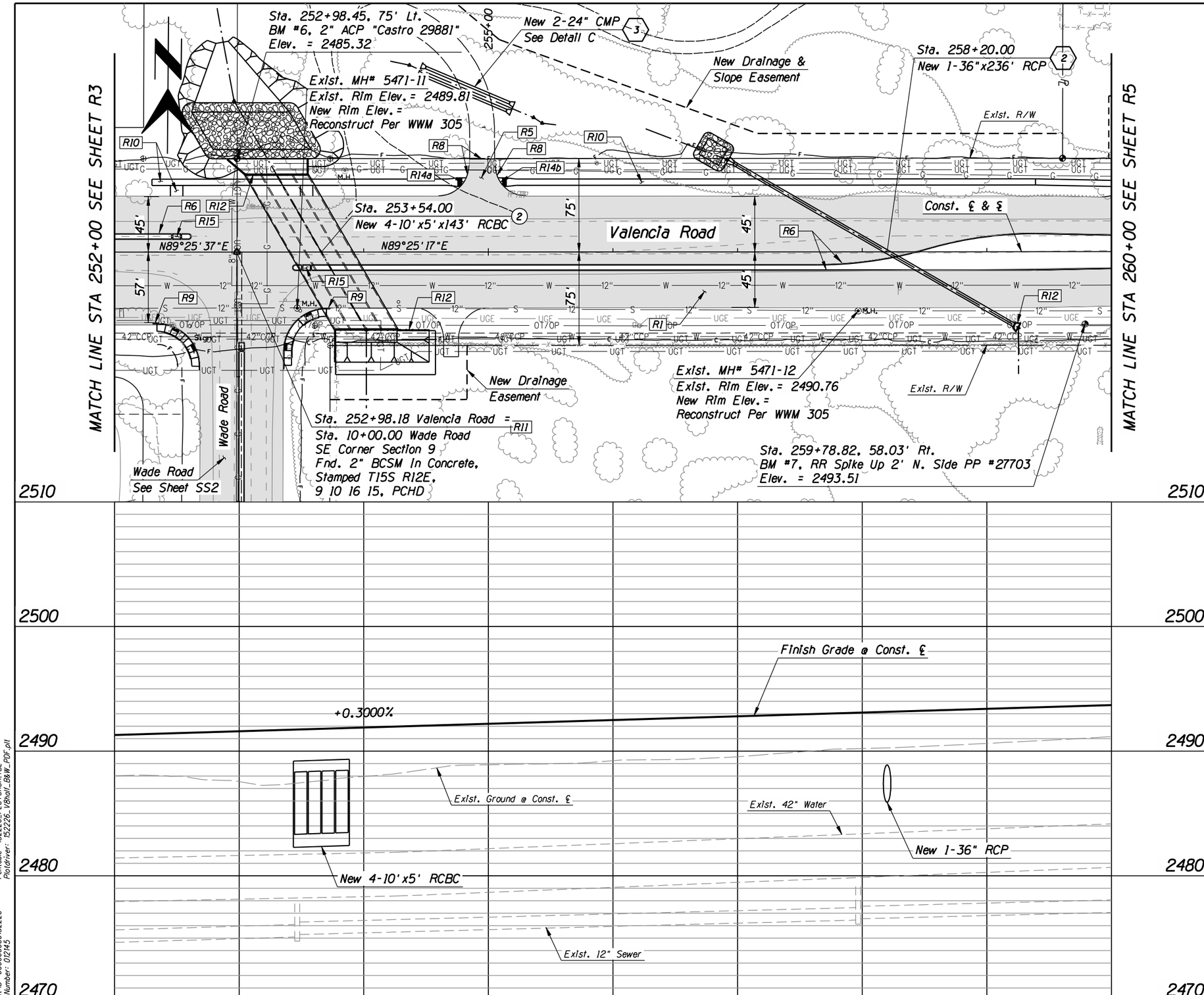

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R2	--	S.Y.	Pav't Struct. Sec. No. 2
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R9	2	Each	Curb Terminal Section PC/COT Std. Dtl. 212
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R11	--	Each	Survey Monument PC/COT Std. Dtl. 103
R12	--	L.F.	Barricade Railing PC/COT Std. Dtl. 105
R14	2	Each	Sidewalk Access Ramp PC Std. Dtl. 207 Sheet 5 of 5
a	1	Each	Sta. 254+80.458, 56.00' Lt.
b	1	Each	Sta. 255+09.55, 56.00' Lt.
R15	1	Each	Median Refuge Area, Type 1 PC/COT Std. Dtl. 214 Sheet 4 of 5
R16	1	Each	Median Refuge Area, Type 2 PC/COT Std. Dtl. 214 Sheet 4 of 5

PAVING PLAN/PROFILE
STA. 252+00 TO 260+00

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet R4 of R18

Page 47 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABI	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C03

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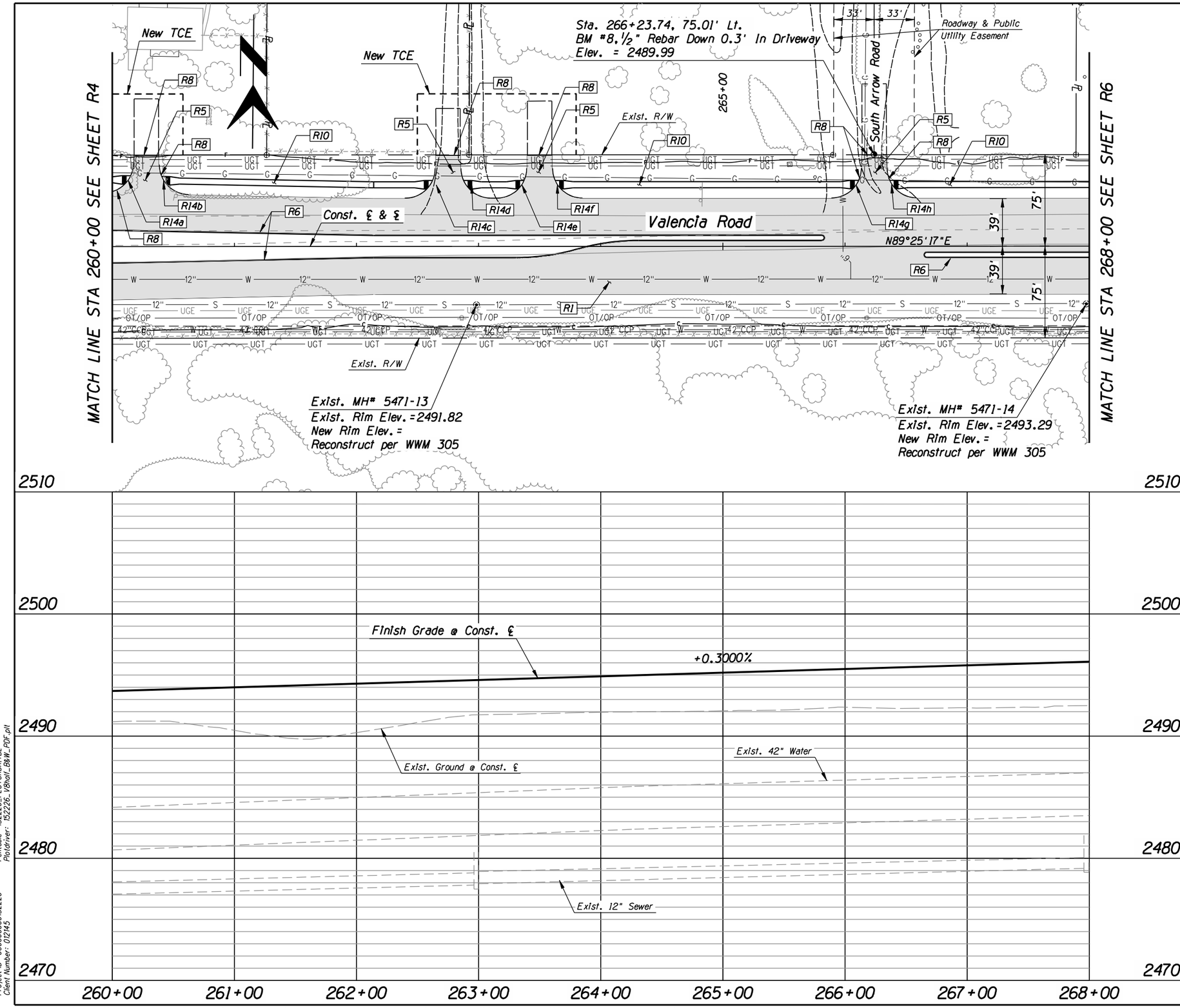

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R14	10	Each	Sidewalk Access Ramp PC Std. Dtl. 207 Sheet 5 of 5
a	1	Each	Sta. 260+13.00, 54.52' Lt.
b	1	Each	Sta. 260+42.12, 53.94' Lt.
c	1	Each	Sta. 262+65.28,50.50' Lt.
d	1	Each	Sta. 262+04.39, 50.50' Lt.
e	1	Each	Sta. 262+96.11, 50.40' Lt.
f	1	Each	Sta. 263+64.55, 50.50' Lt.
g	1	Each	Sta. 266+09.02, 50.50' Lt.
h	1	Each	Sta. 266+38.13, 50.50' Lt.

PAVING PLAN/PROFILE
STA. 260+00 TO 268+00

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet R5 of R18

Page 48 of 148

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

TRACS No. SS975 01C

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C04

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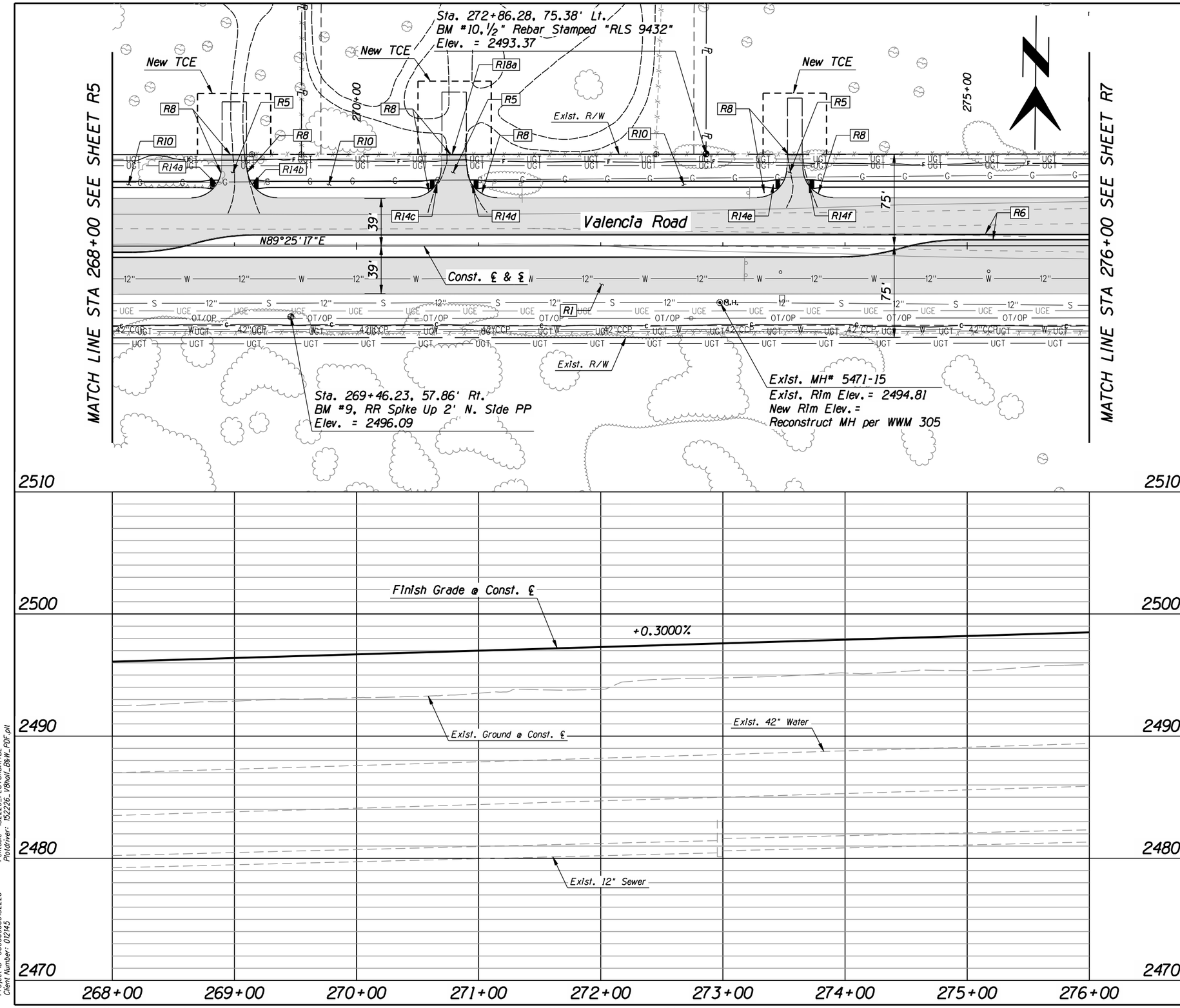

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R14	2	Each	Sidewalk Access Ramp PC Std. Dtl. 207 Sheet 5 of 5
a	1	Each	Sta. 268+85.28, 50.50' Lt.
b	1	Each	Sta. 269+14.39, 50.50' Lt.
c	1	Each	Sta. 270+65.85, 50.50' Lt.
d	1	Each	Sta. 270+94.96, 50.50' Lt.
e	1	Each	Sta. 273+41.45, 50.50' Lt.
f	1	Each	Sta. 273.70.55, 50.50' Lt.
R18	--	Each	Reconstruct Fence
a	1	Each	Sta. XXX+XX, XX.X' Lt. to Sta. XXX+XX, XX.X' Lt.

PAVING PLAN/PROFILE
STA. 268+00 TO 276+00

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet R6 of R18

Page 49 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C05

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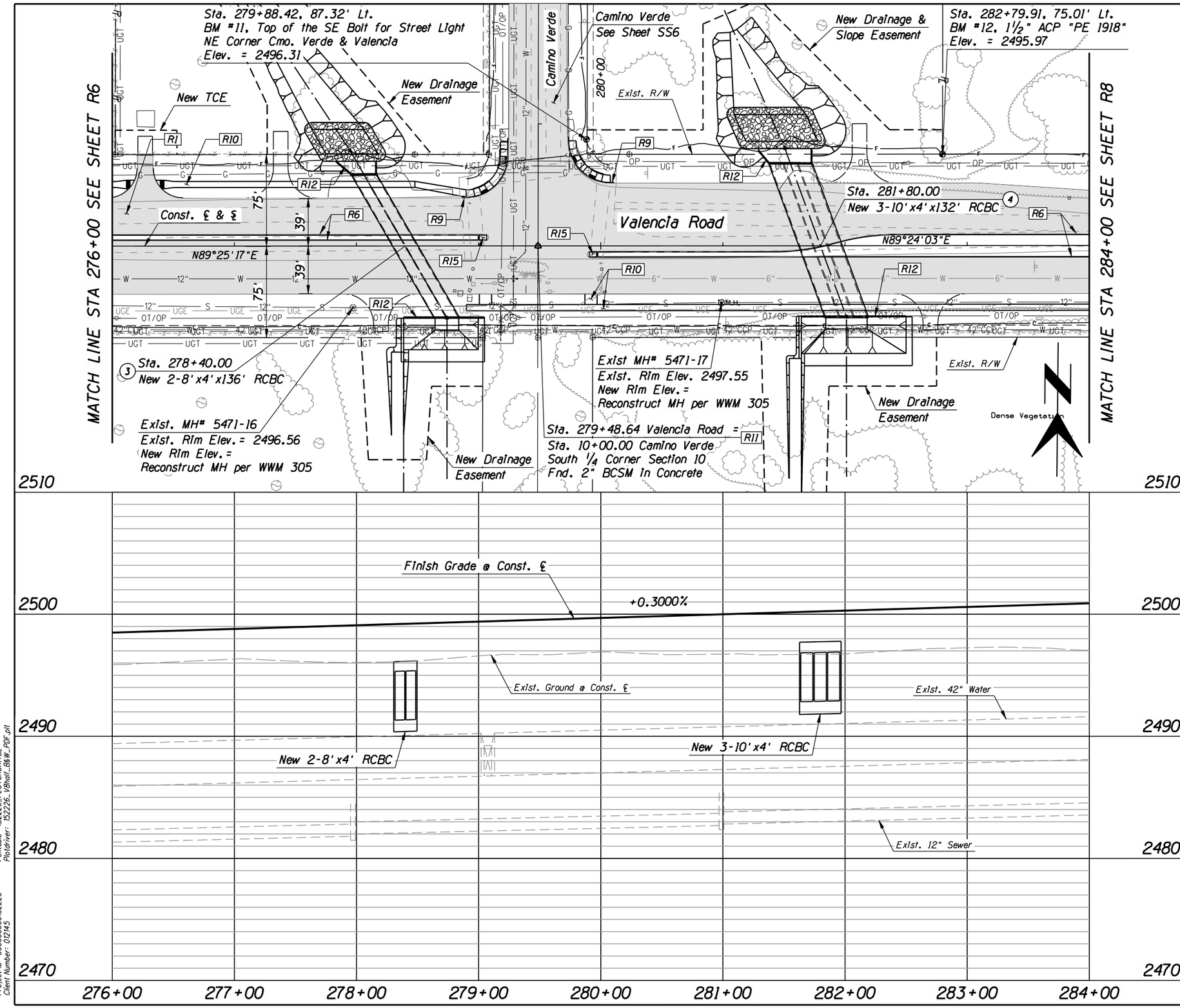


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R9	2	Each	Curb Terminal Section PC/COT Std. Dtl. 212
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R11	--	Each	Survey Monument PC/COT Std. Dtl. 103
R12	--	L.F.	Barricade Railing PC/COT Std. Dtl. 105
R15	2	Each	Median Refuge Area, Type 1 PC/COT Std. Dtl. 214 Sheet 4 of 5

PAVING PLAN/PROFILE
STA. 276+00 TO 284+00

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet R7 of R18

Page 50 of 148

TRACS No. SS975 01C

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

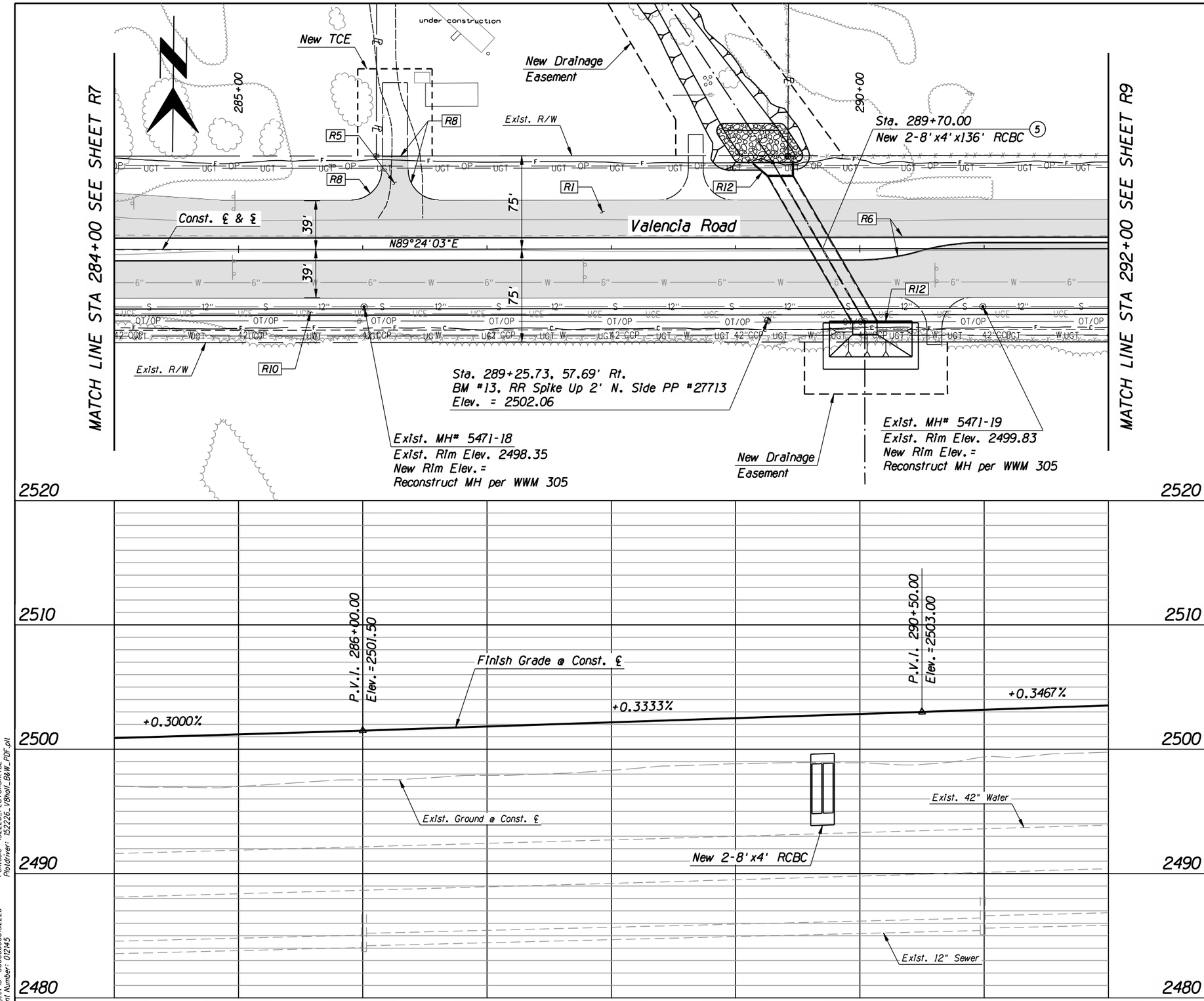
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R12	--	L.F.	Barricade Railing PC/COT Std. Dtl. 105

Priscilla S. Cornelio, P.E., Director

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

PAVING PLAN/PROFILE
STA. 284+00 TO 292+00

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet R8 of R18

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
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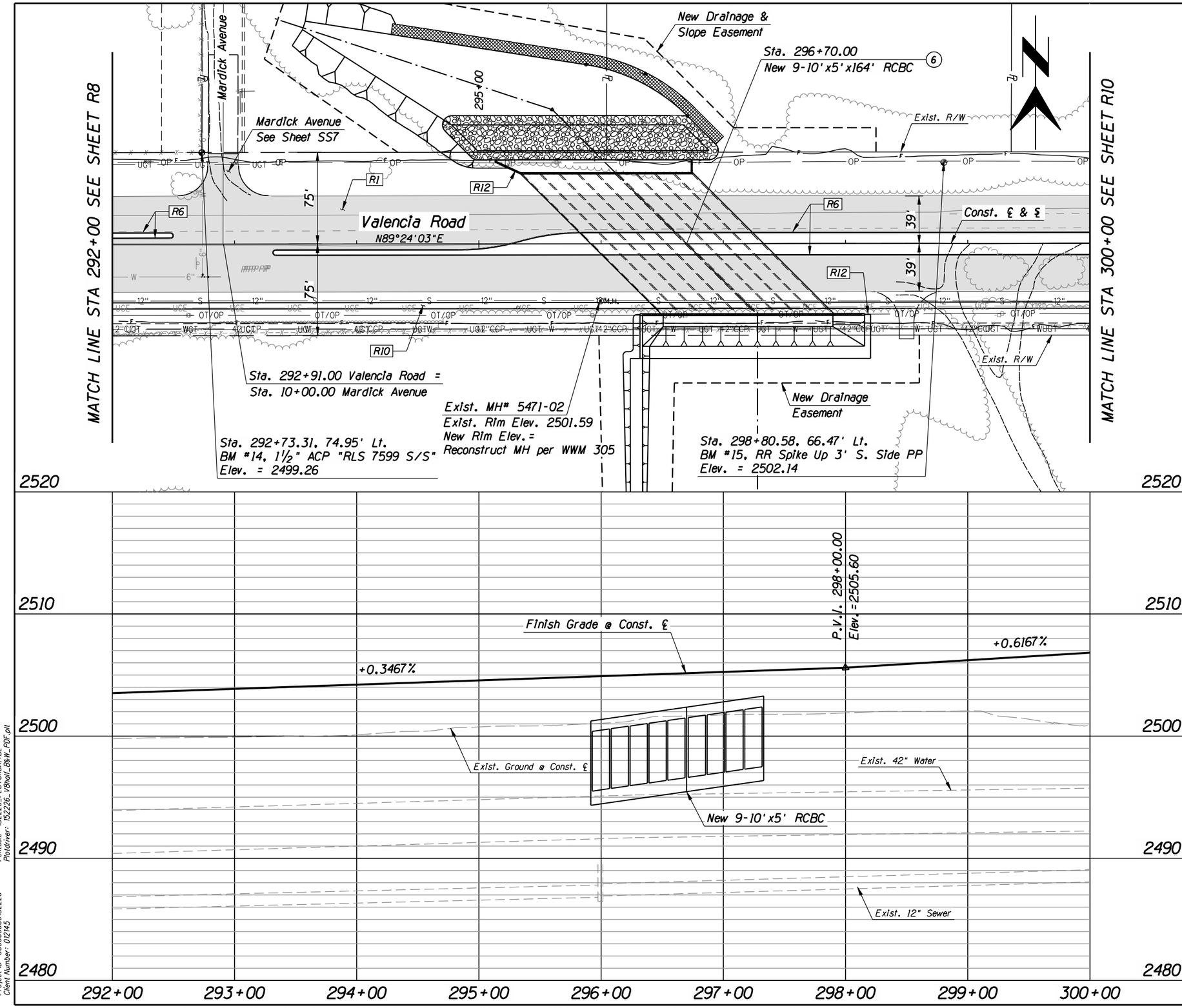

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R12	381	L.F.	Barricade Railing PC/COT Std. Dtl. 105

PAVING PLAN/PROFILE
STA. 292+00 TO 300+00

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet R9 of R18

Page 52 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
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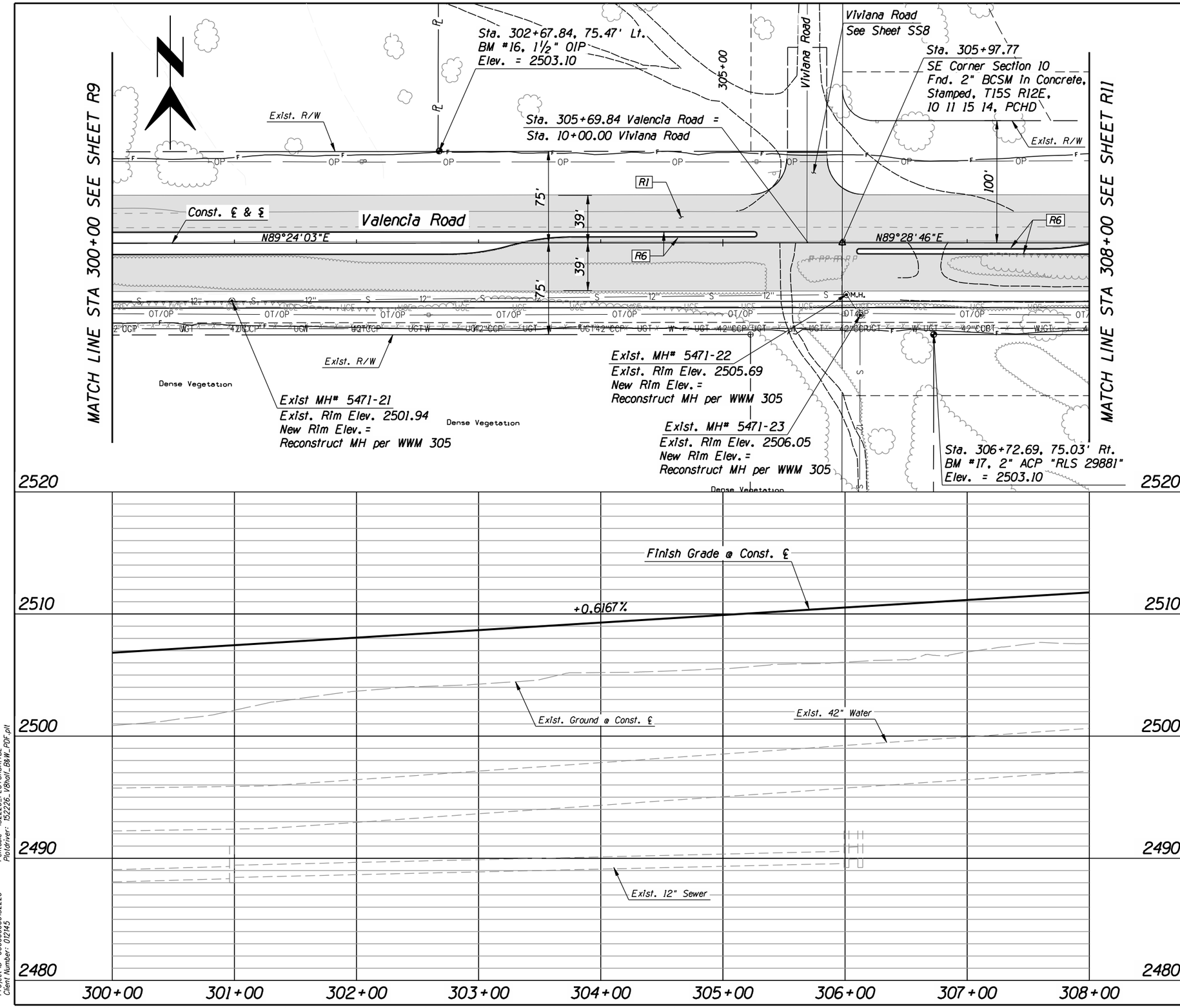

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABJ	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

PAVING PLAN/PROFILE
STA. 300+00 TO 308+00

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet R10 of R18

Page 53 of 148

TRACS No. SS975 01C

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C09

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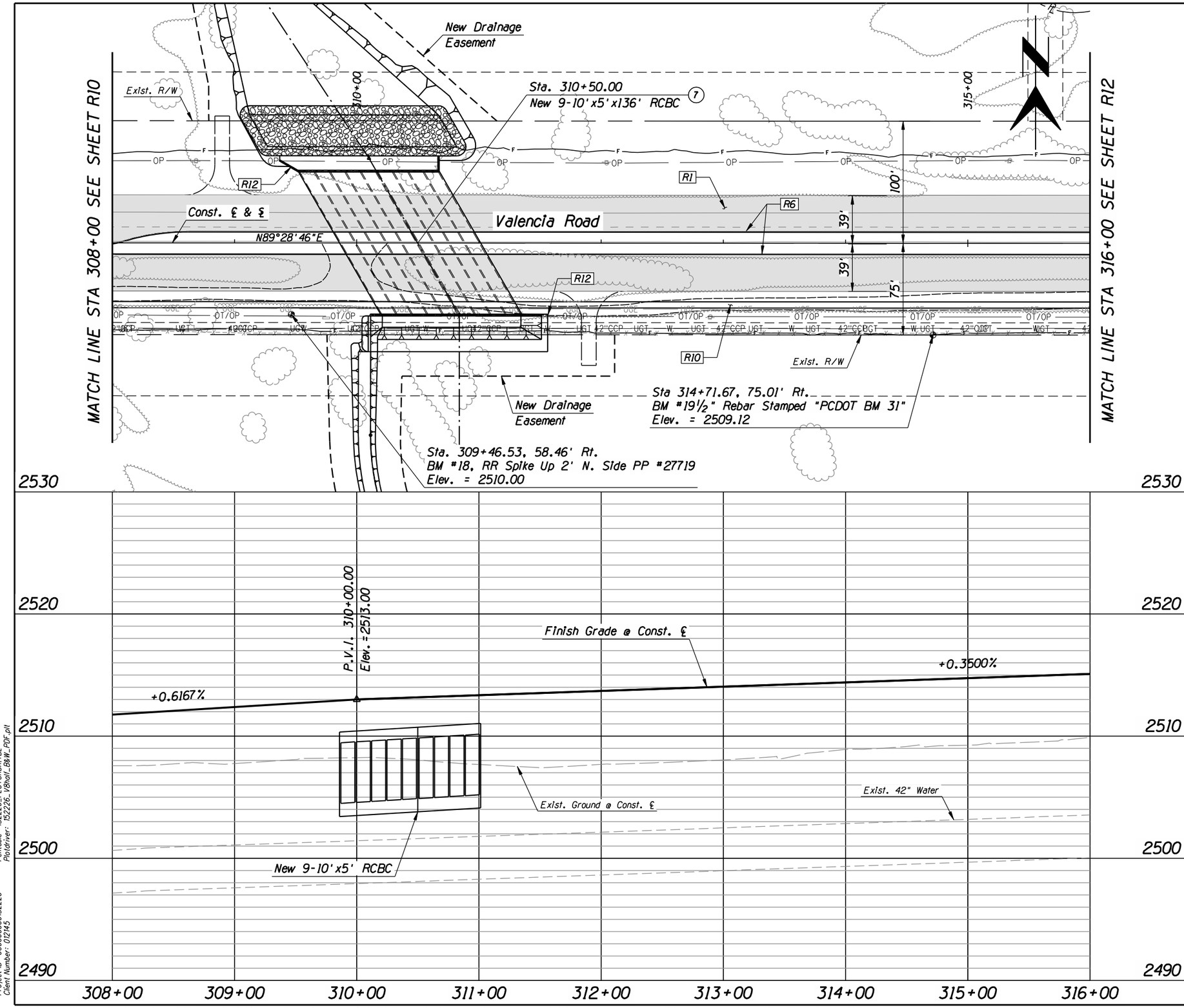

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R12	--	L.F.	Barricade Railing PC/COT Std. Dtl. 105

PAVING PLAN/PROFILE
STA. 308+00 TO 316+00

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet R11 of R18

Page 54 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABJ	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
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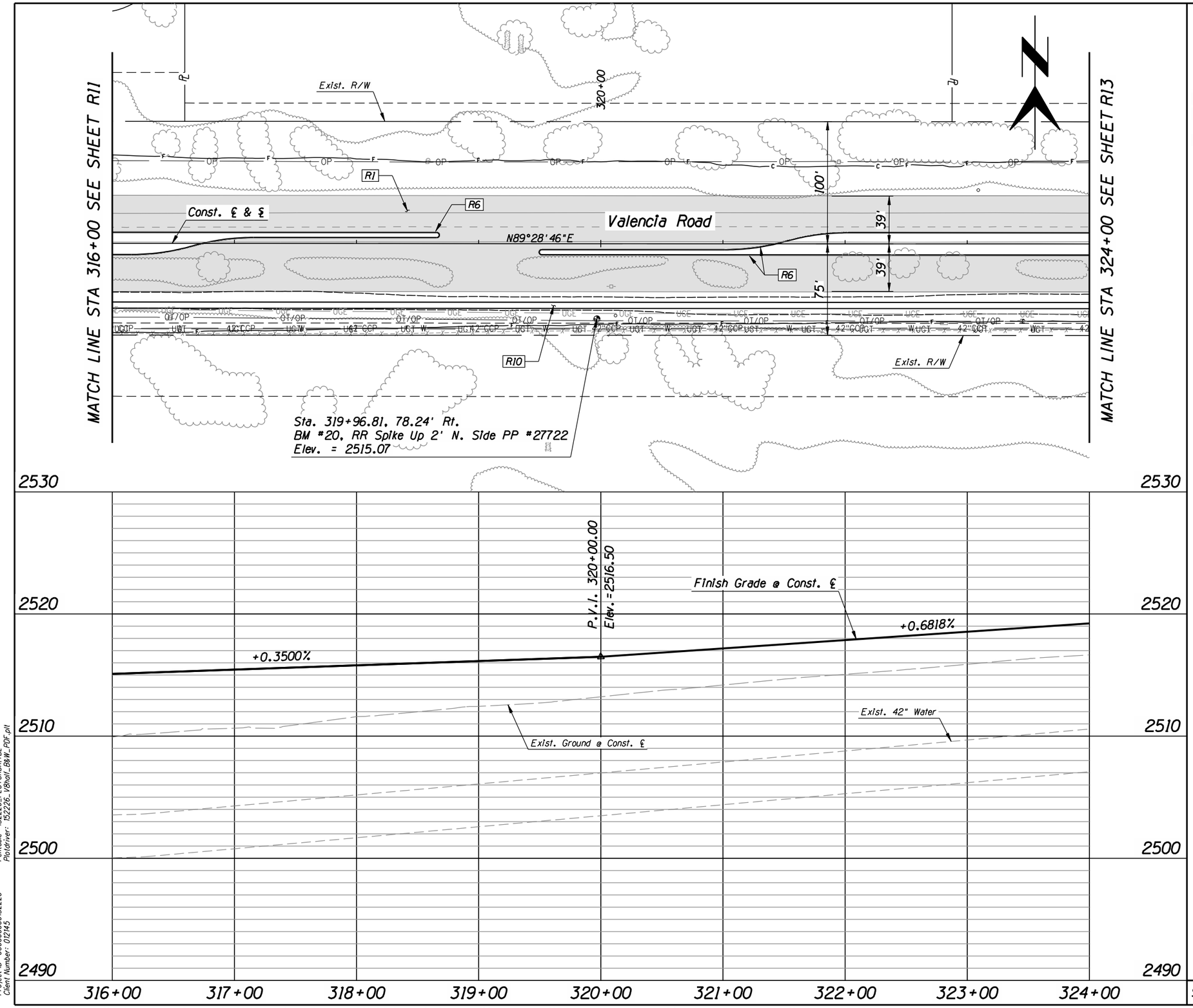

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width

PAVING PLAN/PROFILE
STA. 316+00 TO 324+00

40 0 40 80

Scales	Horiz. 1"=40' Vert. 1"=4'	Sheet R12 of R18	Page 55 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

		Date
Designed	ABI	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C11

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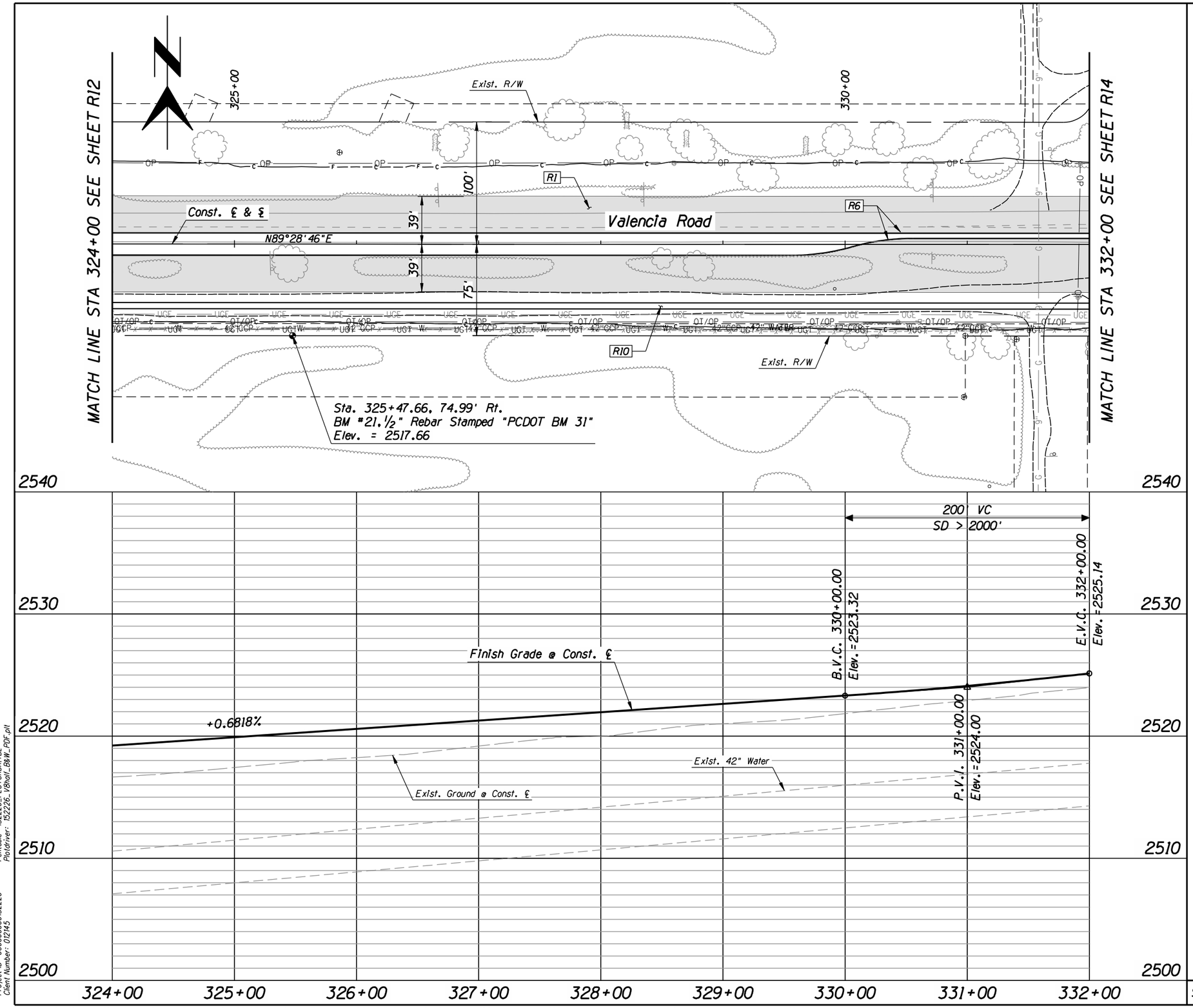

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width

PAVING PLAN/PROFILE
STA. 324+00 TO 332+00

40 0 40 80

Scales Horiz. 1"=40' Vert. 1"=4'

Sheet R13 of R18

Page 56 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C12

Printed By: aledesma Date: 09\07\11 10:59:09 AM

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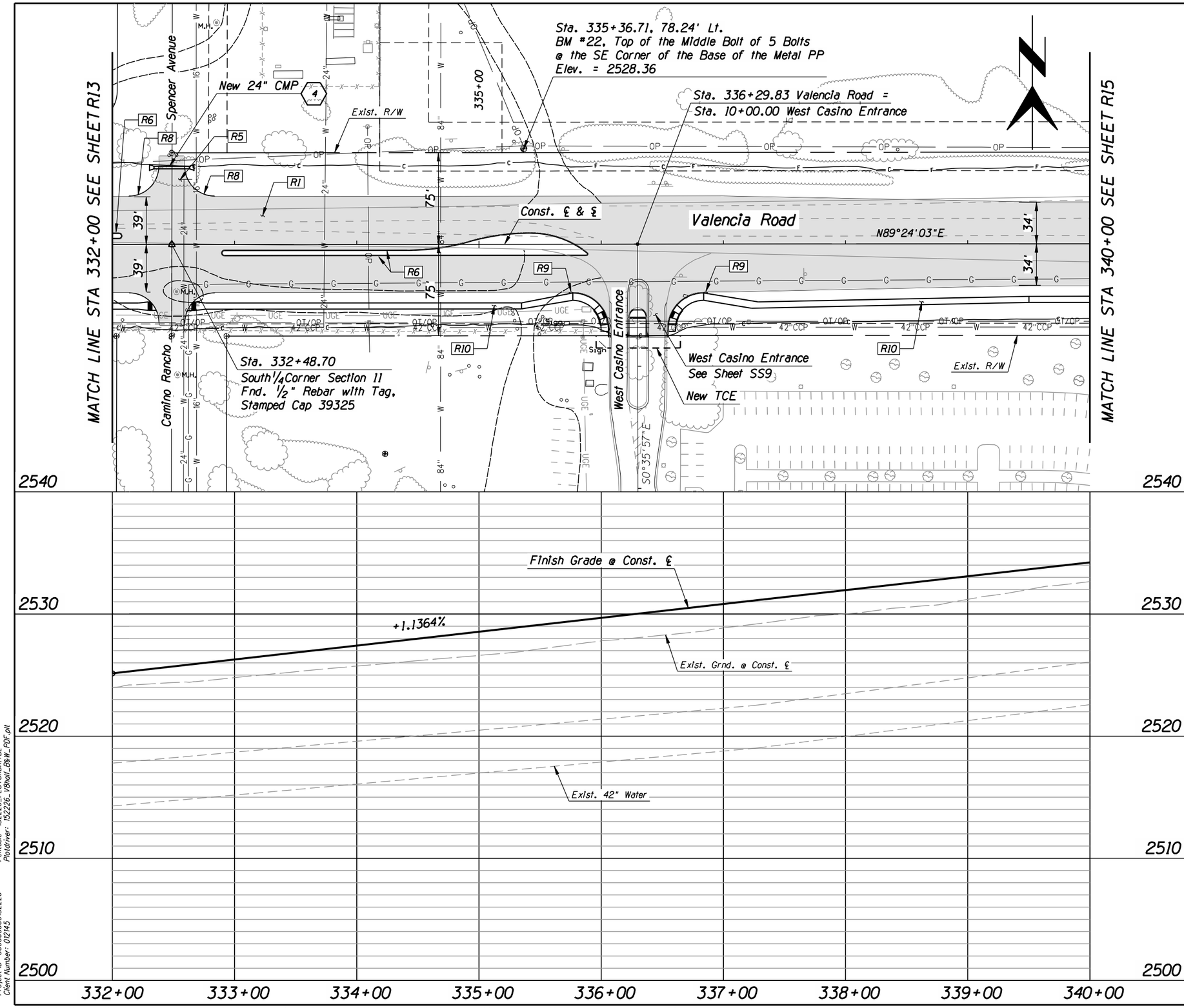

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R9	2	Each	Curb Terminal Section PC/COT Std. Dtl. 212
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width

PAVING PLAN/PROFILE
STA. 332+00 TO 340+00

40 0 40 80

Scales: Horiz. 1" = 40' Vert. 1" = 4'

Sheet R14 of R18

Page 57 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PL010R0R.TBL
Plotdriver: 152226_VBhall_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C13

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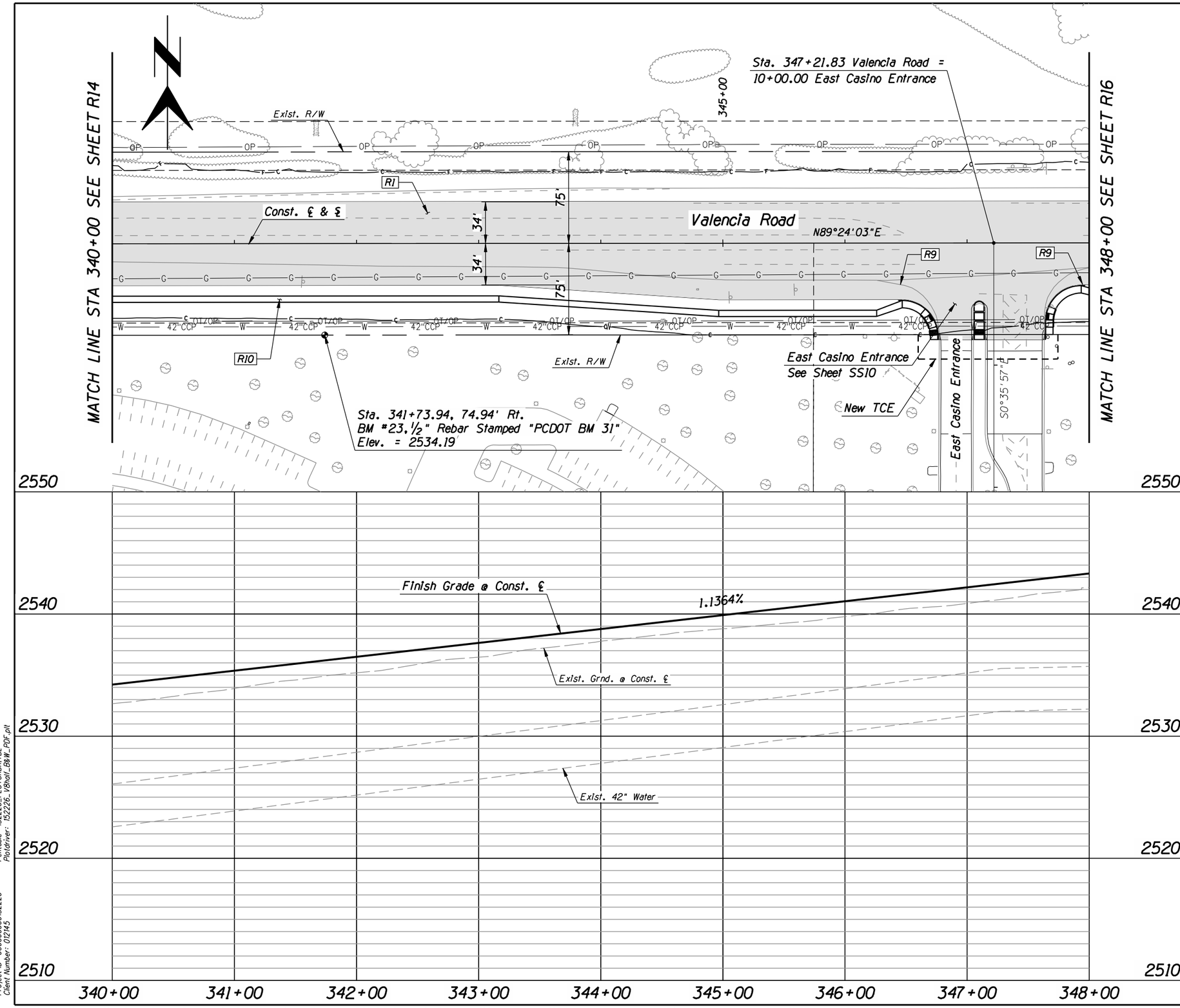

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R9	2	Each	Curb Terminal Section PC/COT Std. Dtl. 212
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

PAVING PLAN/PROFILE
STA. 340+00 TO 348+00

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet R15 of R18

Page 58 of 148

TRACS No. SS975 01C

Pentable: 152226_PL010R0R.TBL
Plotdriver: 152226_VBhall_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C14

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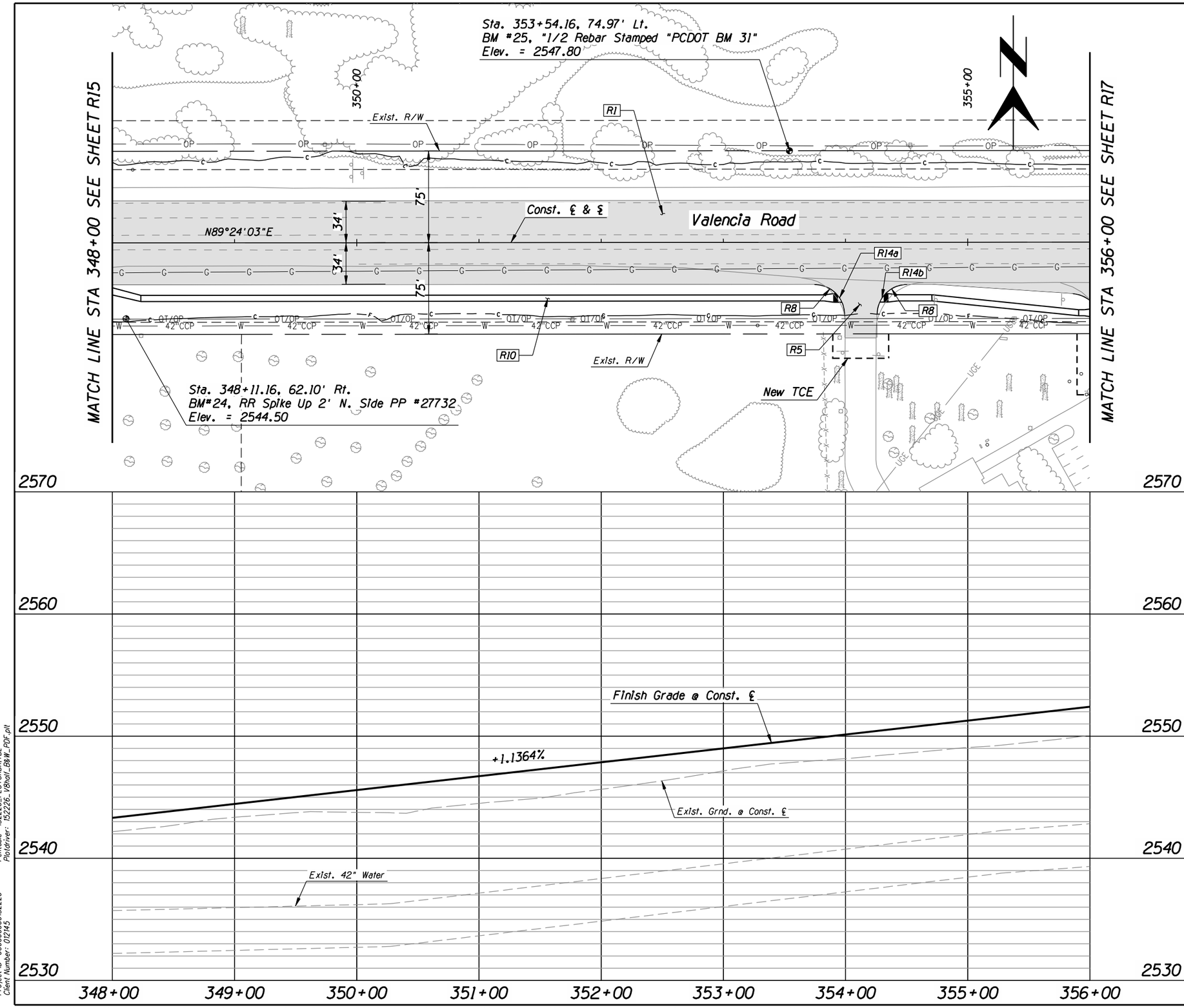

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R14	2	Each	Sidewalk Access Ramp PC Std. Dtl. 207 Sheet 5 of 5
a	1	Each	Sta. 353+95.15, 45.50' Rt
b	1	Each	Sta. 354+29.81, 45.50' Rt.

PAVING PLAN/PROFILE
STA. 348+00 TO 356+00

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet R16 of R18

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PL010R0R.TBL
Plotdriver: 152226_VBhall_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
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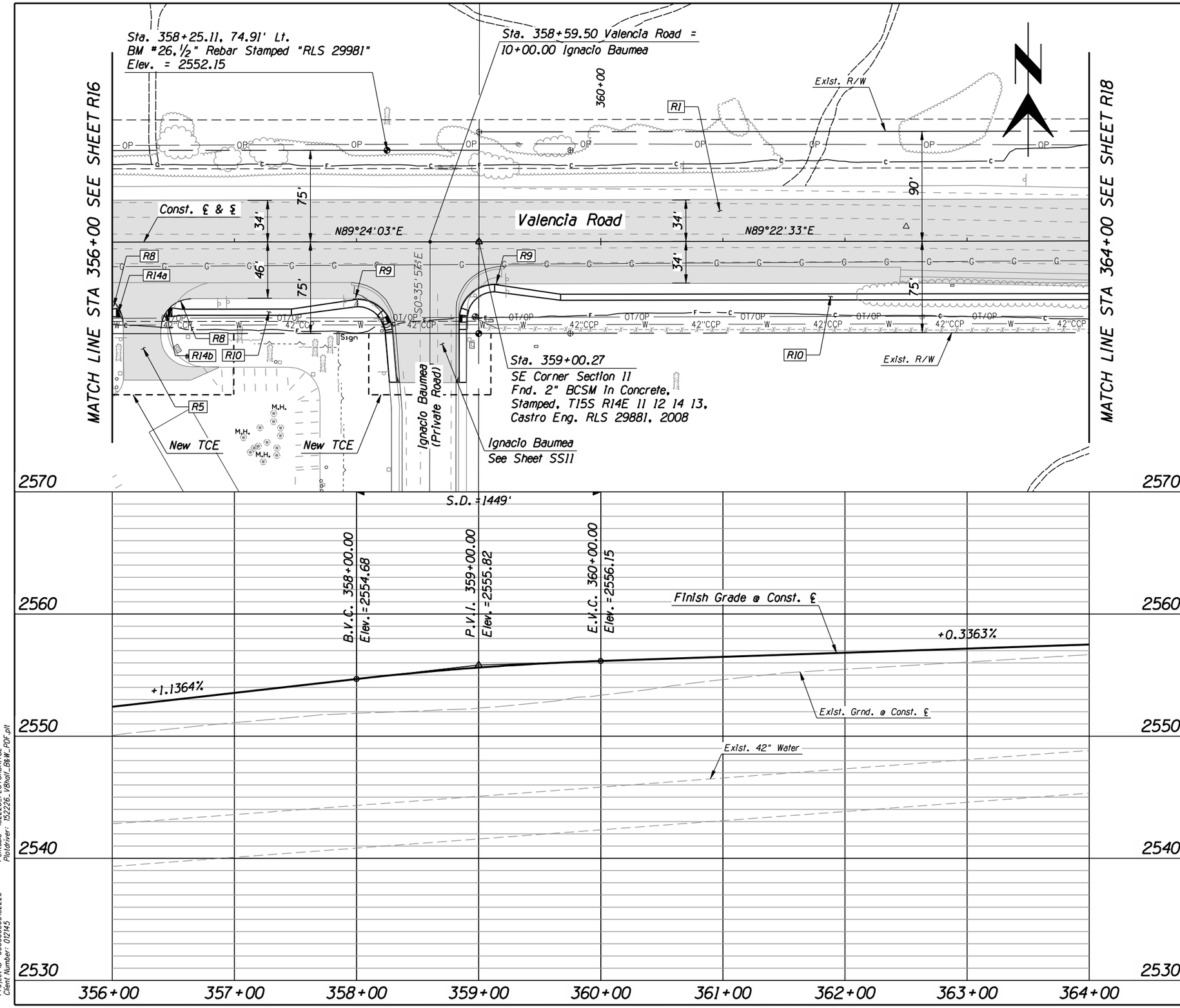
TRACS No. SS975 01C



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R9	2	Each	Curb Terminal Section PC/COT Std. Dtl. 212
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R14	2	Each	Sidewalk Access Ramp PC Std. Dtl. 207 Sheet 5 of 5
a	1	Each	Sta. 356+04.90, 57.86' Rt.
b	1	Each	Sta. 356+43.95, 57.50' Rt.

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pima County Department of Transportation

PAVING PLAN/PROFILE
STA. 356+00 TO 364+00

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet R17 of R18

Page 60 of 148

TRACS No. SS975 01C

Print Scale: 1:80

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PL010R0R.TBL
Plotdriver: 152226_VBhall_B&W_PDF.plt

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
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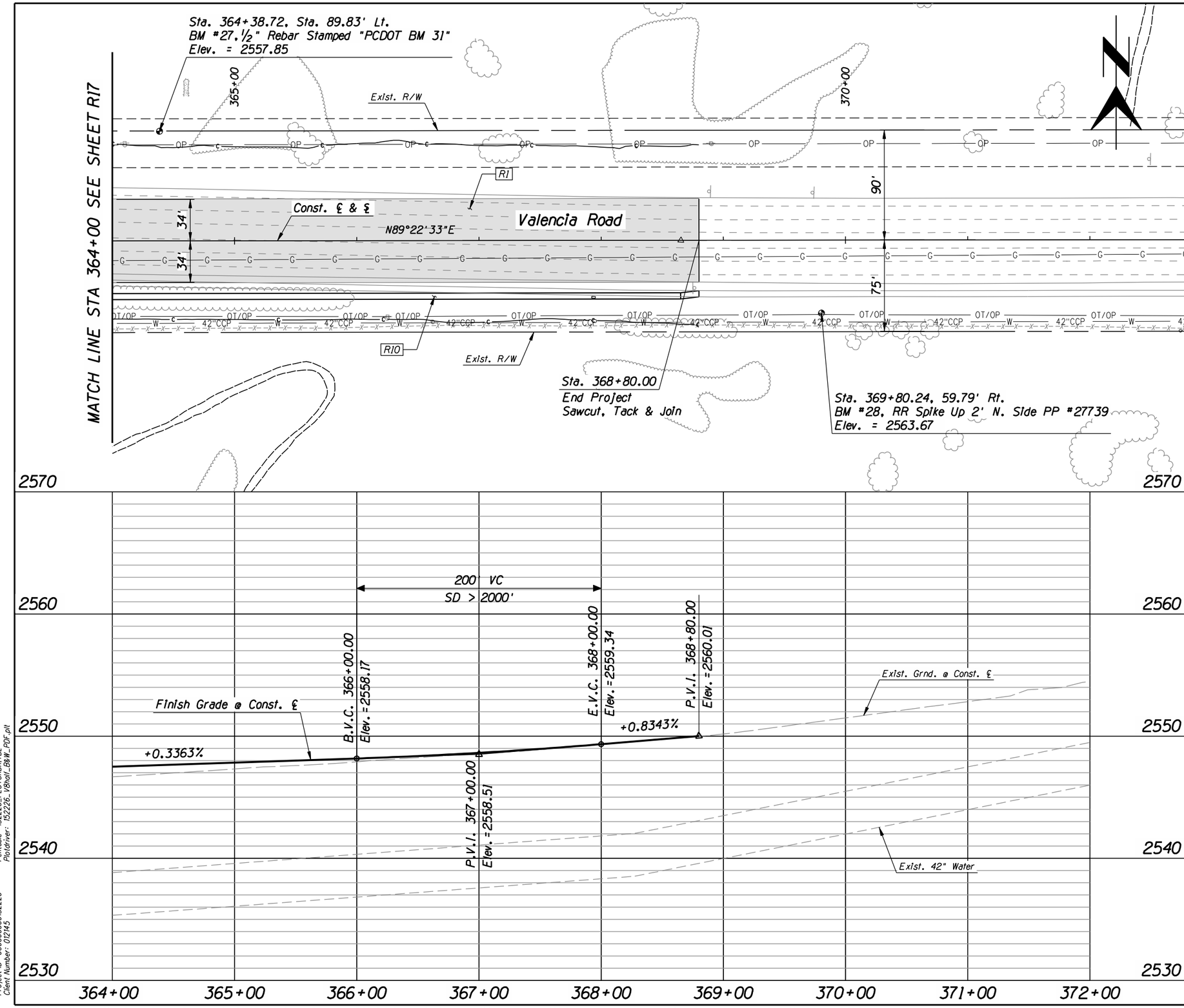

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R1	--	S.Y.	Pav't Struct. Sec. No. 1
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width

PAVING PLAN/PROFILE
STA. 364+00 TO 368+80

40 0 40 80

Scales	Horiz. 1" = 40'	Sheet R18 of R18	Page 61 of 148
	Vert. 1" = 4'		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-01.dgn
Model: B02C17

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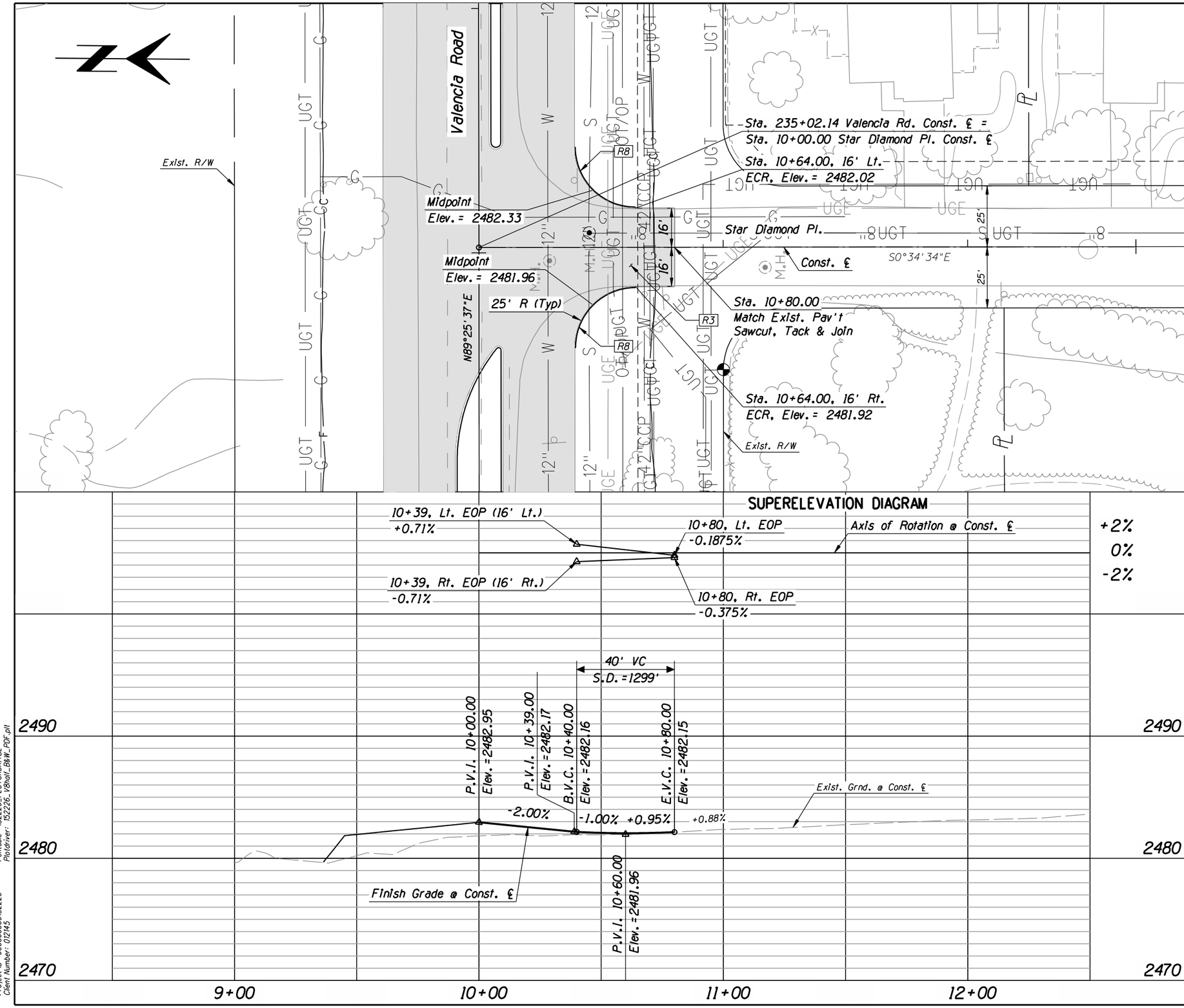
Print Scale: 1:80

TRACS No. SS975 01C

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R3	--	S.Y.	Pav't Struct. Sec. No. 3
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213



STAR DIAMOND PLACE
SIDE STREET PLAN/PROFILE

20 0 20 40

Scales	Horiz. 1" =20'	Sheet SS1 of SS11	Page 62 of 148
	Vert. 1" =4'		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_VBhalf_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
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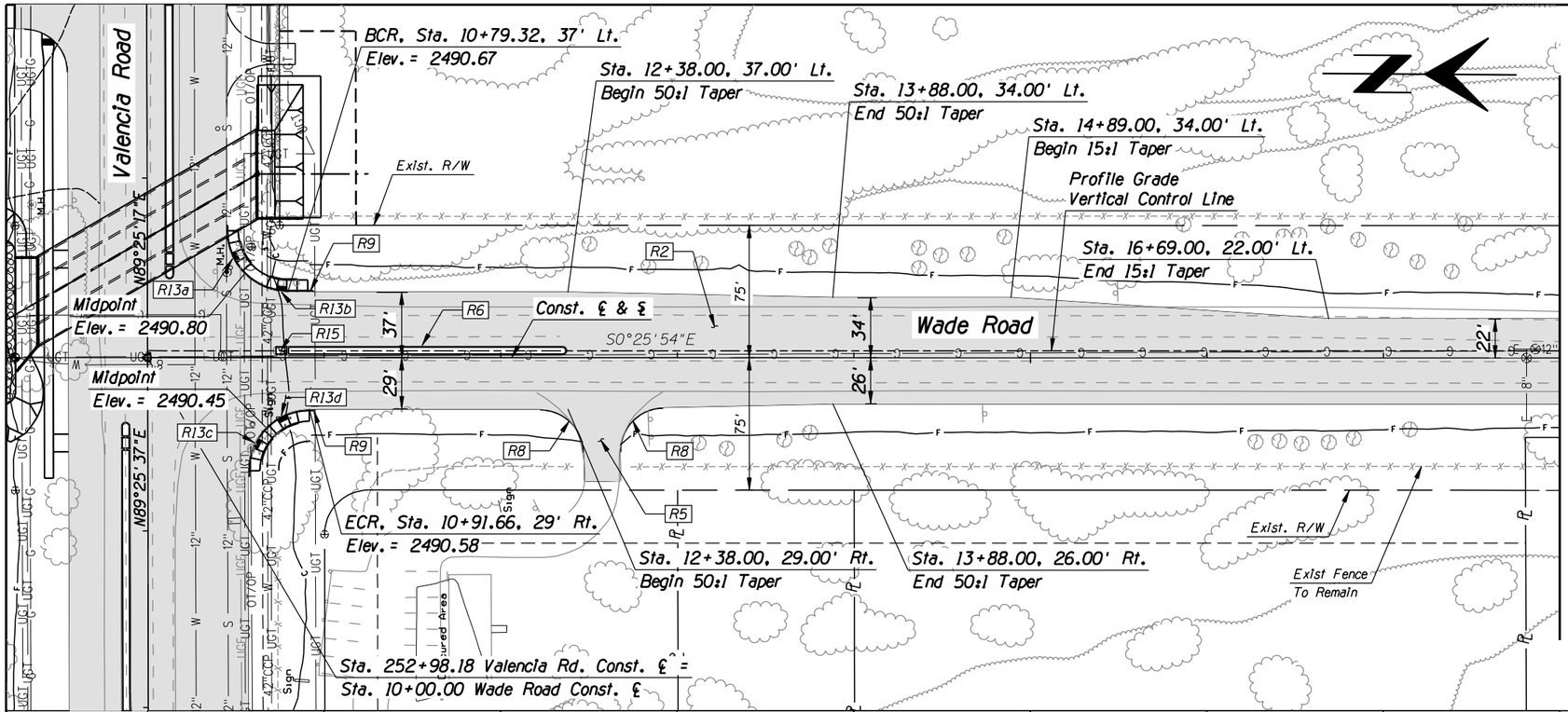

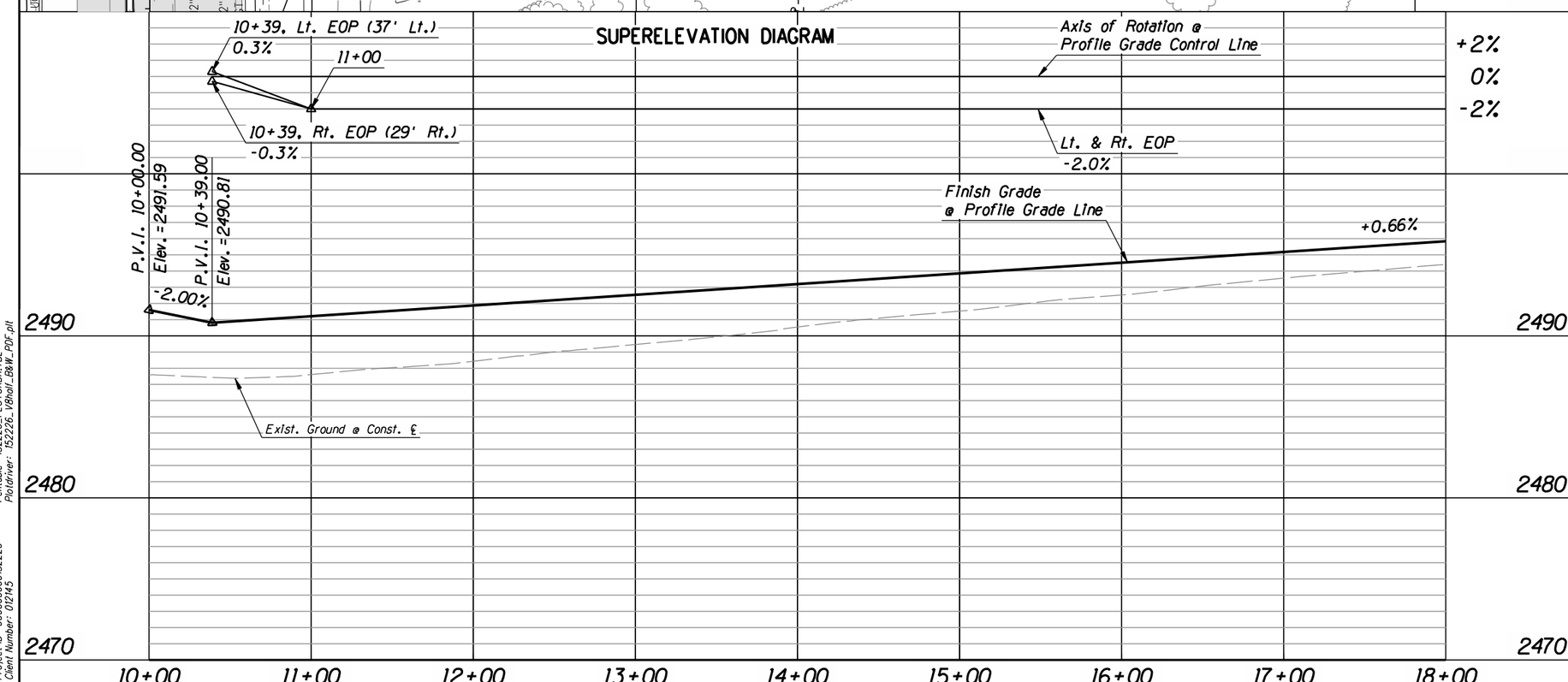

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213
R9	--	Each	Curb Terminal Section PC/COT Std. Dtl. 212
R13	4	Each	Curb Access Ramp PC Std. Dtl. 207, Type 1
a	1	Each	Sta. 252+49.88, 60.33' Rt.
b	1	Each	Sta. 252+65.17, 75.65' Rt.
c	1	Each	Sta. 253+35.17, 75.83' Rt.
d	1	Each	Sta. 253+54.13, 48.29' Rt.
R15	1	Each	Median Refuge Area, Type 1 PC/COT Std. Dtl. 214 Sheet 4 of 5

WADE ROAD
SHEET 1 OF 3
SIDE STREET PLAN/PROFILE

40 0 40 80

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales Horiz. 1" = 40' Vert. 1" = 4' | Sheet SS2 of SS11 | Page 63 of 148

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
Model: B02C101

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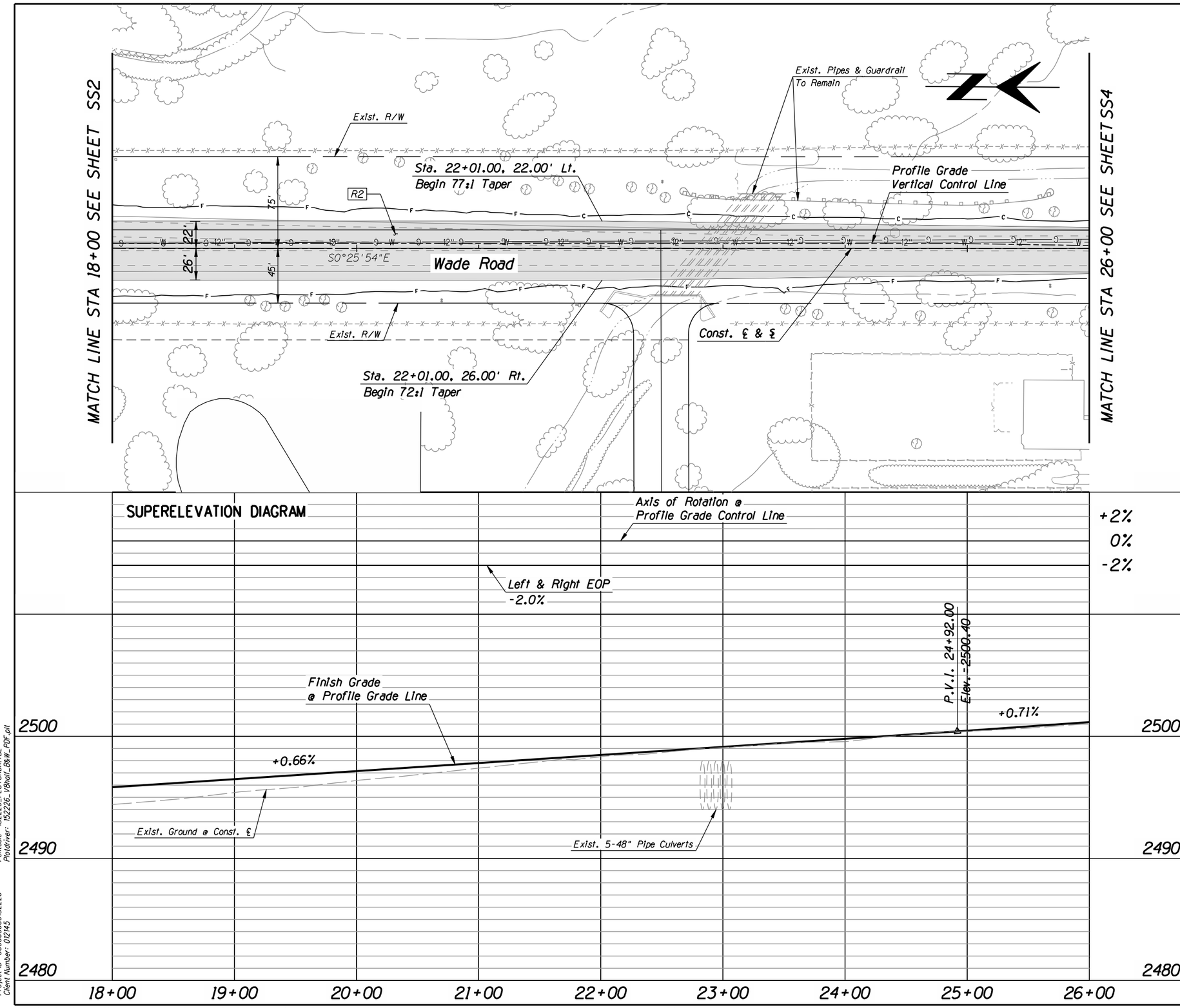


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2

WADE ROAD
SHEET 2 OF 3
SIDE STREET PLAN/PROFILE

40 0 40 80

Scales Horiz. 1" = 40' Vert. 1" = 4'

Sheet SS3 of SS11

Page 64 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

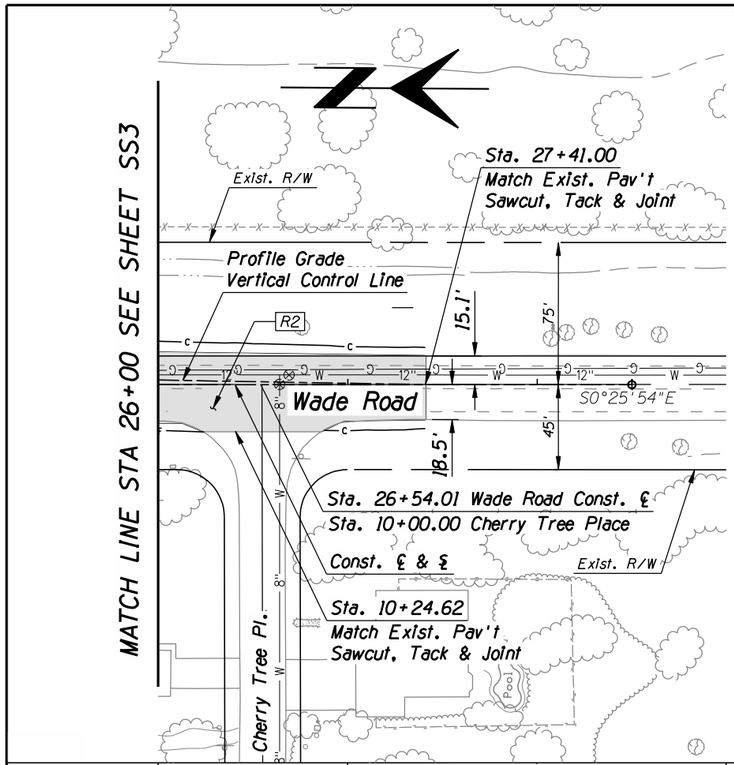
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

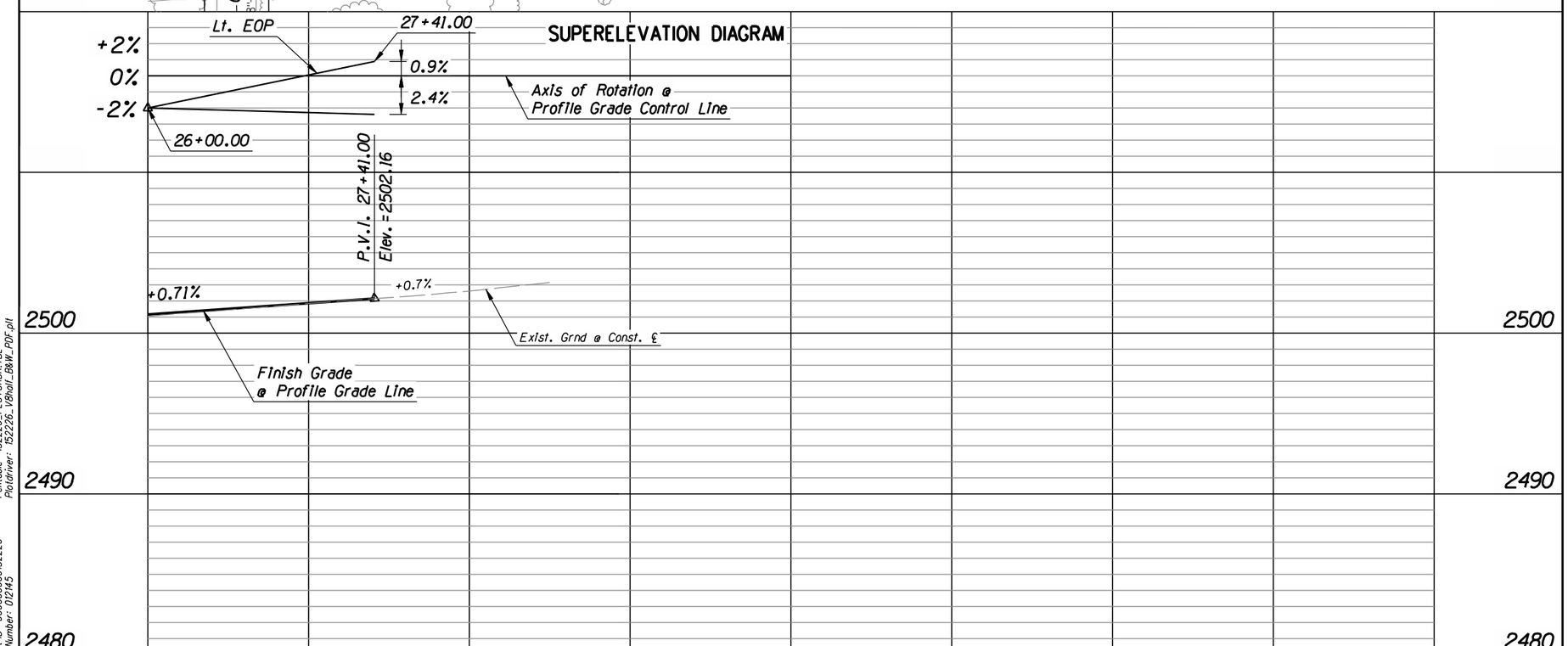
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8Half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2

WADE ROAD
SHEET 3 OF 3
SIDE STREET PLAN/PROFILE

40 0 40 80

Scales	Horiz. 1" = 40'	Sheet SS4 of SS11	Page 65 of 148
	Vert. 1" = 4'		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

			Date
Designed	KAM		04/2011
Drawn	KAM, JMF		04/2011
Checked	RDB		04/2011
Proj. Engr.	RDB		04/2011

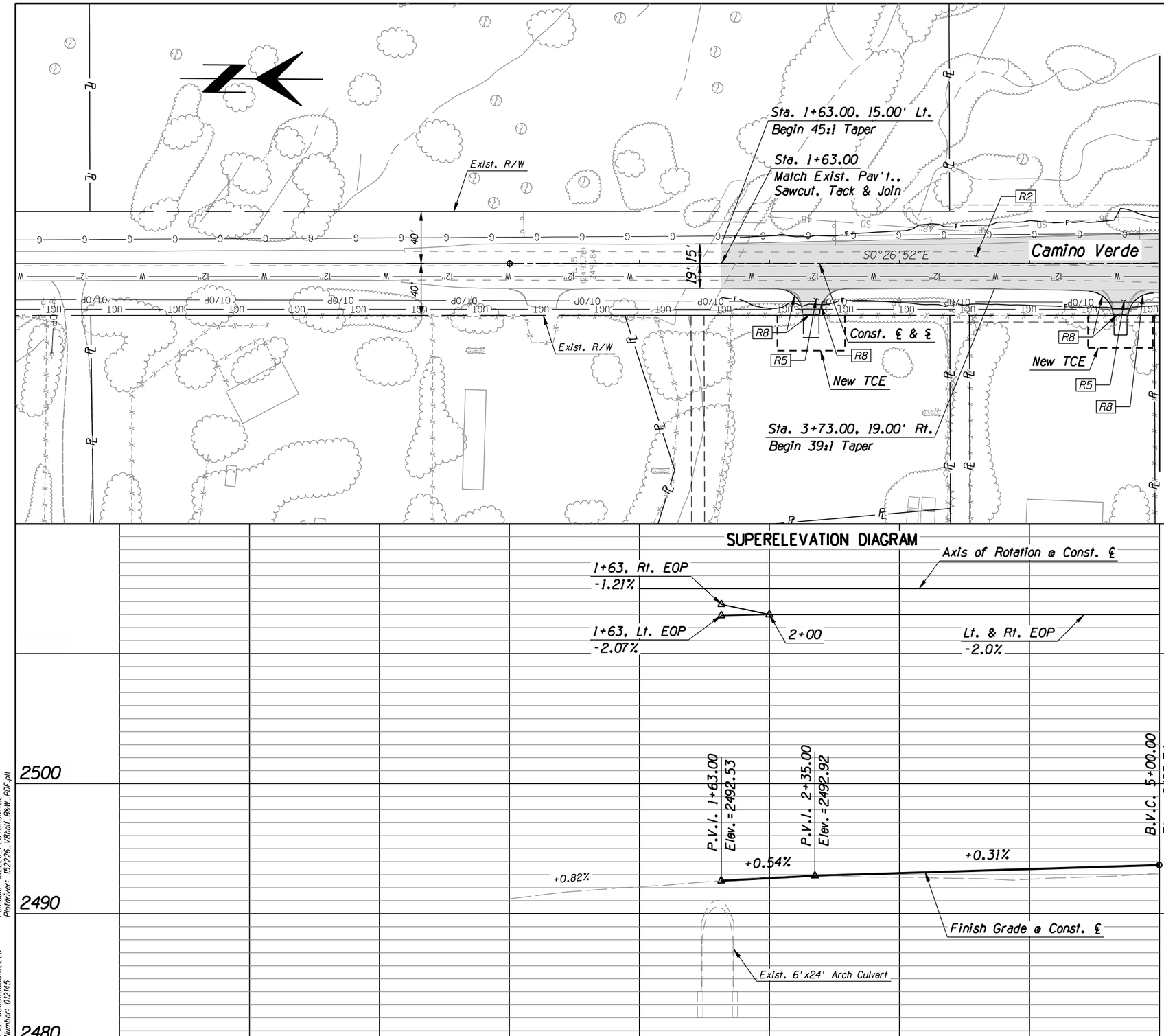
STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
Model: B02C101c
Printed By: aledesma Date: 09\07\11 10:59:34 AM
Print Scale: 1:80.0001



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2
R5	--	S.Y.	Pav't Struct. Sec. No. 5
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

CAMINO VERDE
SHEET 1 OF 2
SIDE STREET PLAN/PROFILE

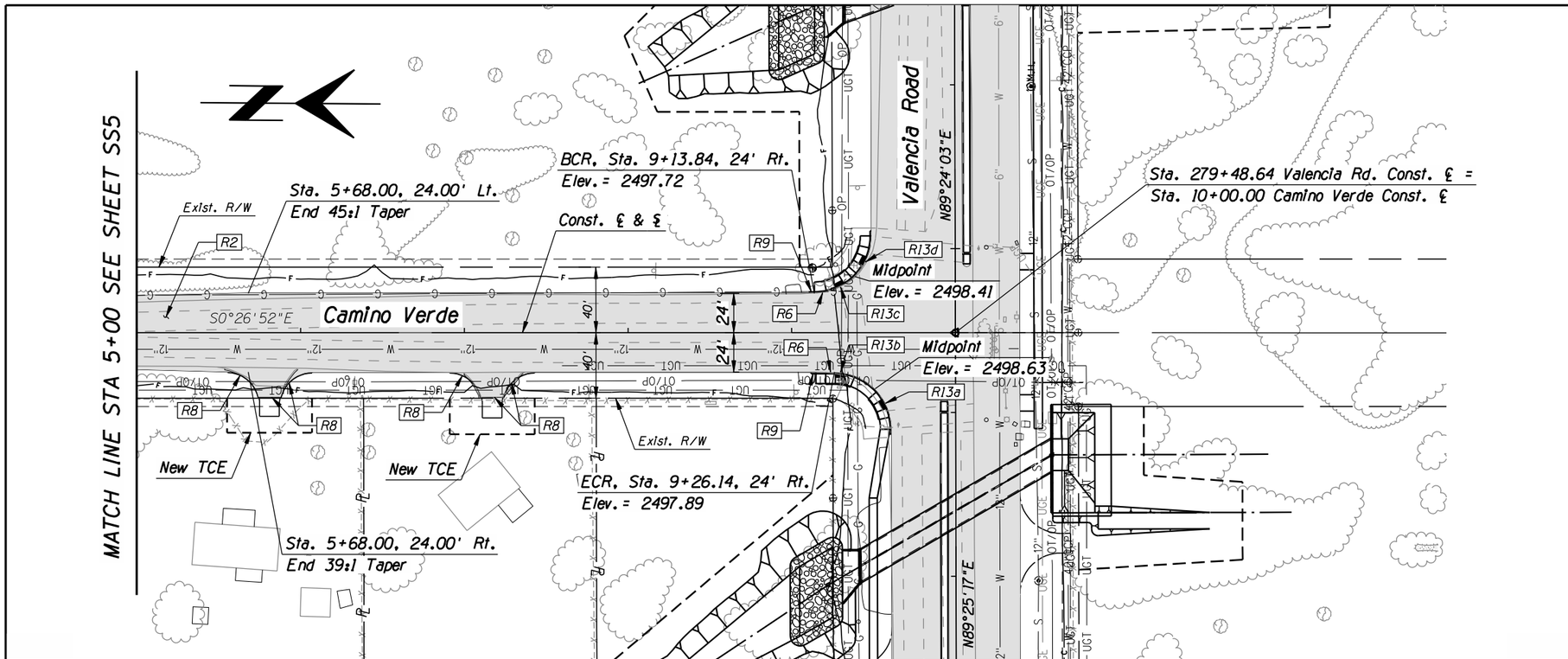
40 0 40 80

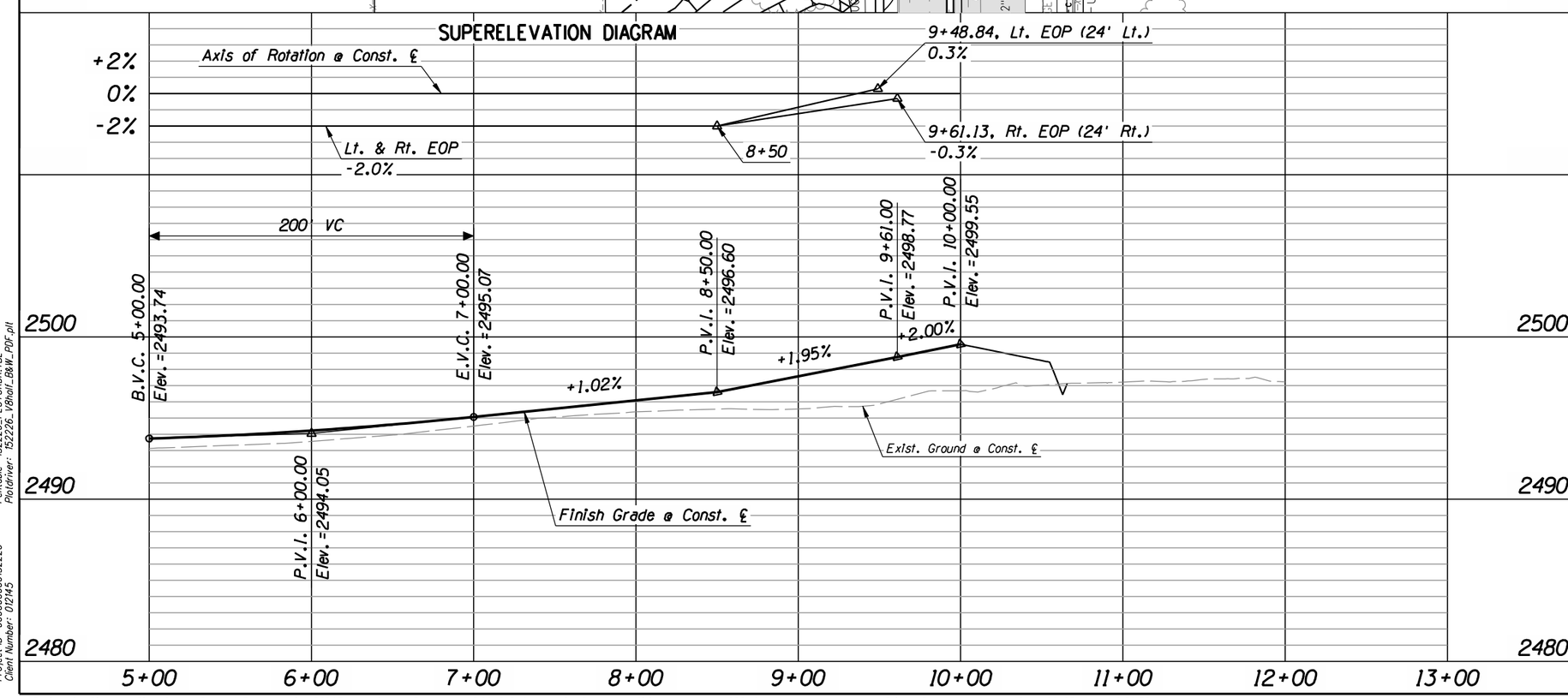
Scales	Horiz. 1" = 40' Vert. 1" = 4'	Sheet SS5 of SS11	Page 66 of 148

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000001152226
Client Number: 012145





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R8	79	L.F.	Concrete Header PC/COT Std. Dtl. 213
R9	2	Each	Curb Terminal Section PC/COT Std. Dtl. 212
R13	4	Each	Curb Access Ramp PC Std. Dtl. 207, Type 1
d	1	Each	Sta. 279+05.66, 42.79' Lt.
b	1	Each	Sta. 279+24.61, 70.28' Lt.
c	1	Each	Sta. 279+76.66, 70.16' Lt.
d	1	Each	Sta. 279+91.94, 54.83' Lt.

Pricilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

CAMINO VERDE
SHEET 2 OF 2
SIDE STREET PLAN/PROFILE

40 0 40 80

Scales	Horiz. 1" = 40'	Sheet SS6 of SS11	Page 67 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_VBhalf_BkW_PDF.plt
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
Model: B02C102b
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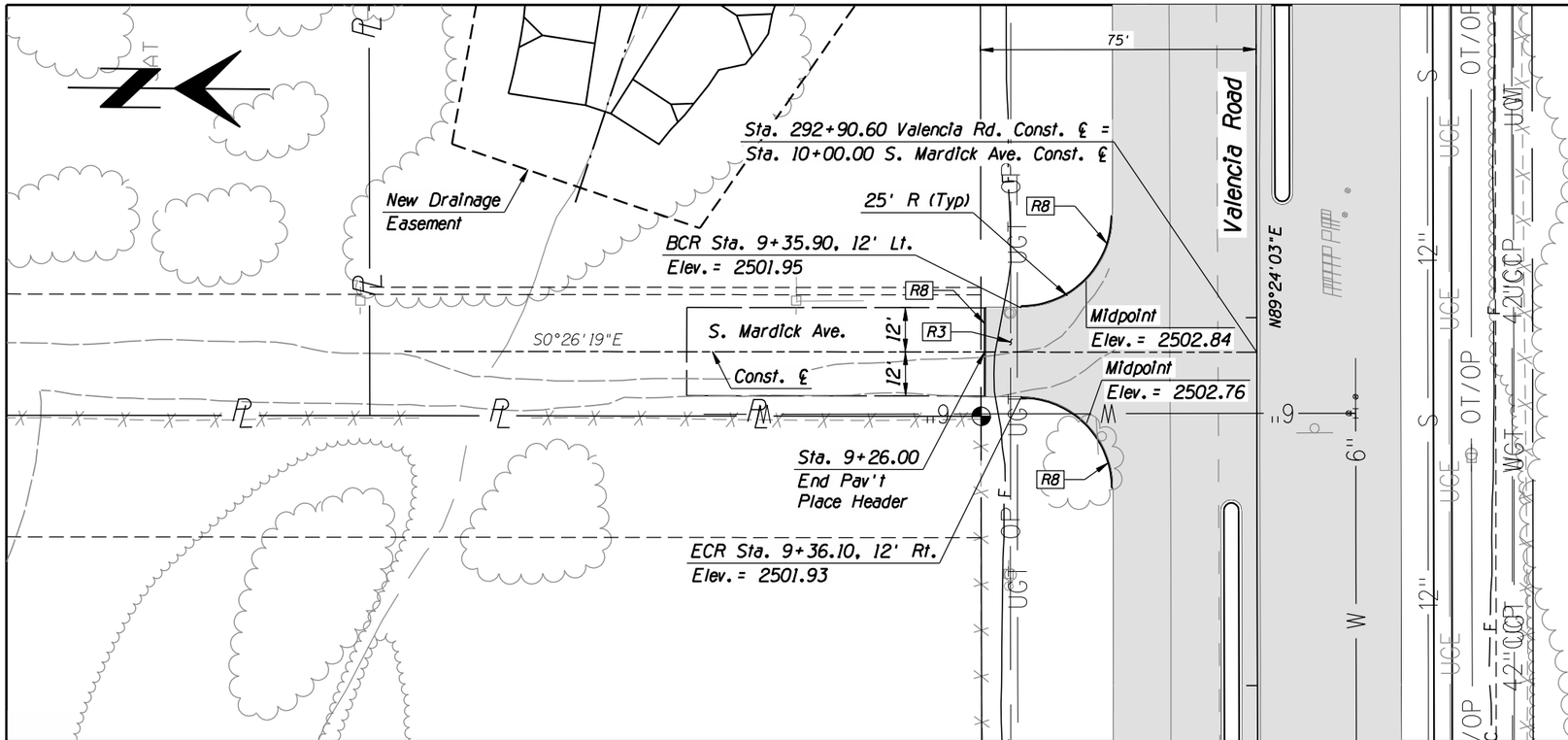

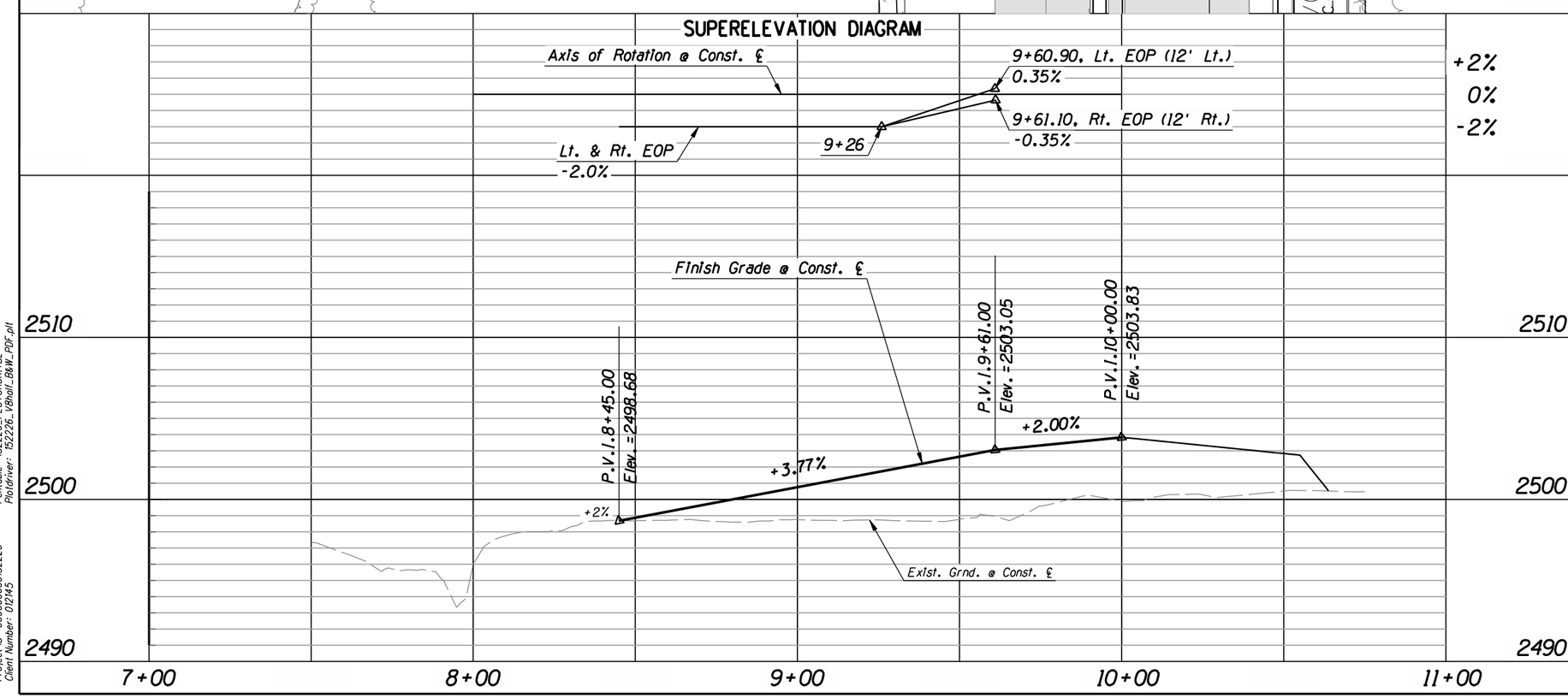

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R3	--	S.Y.	Pav't Struct. Sec. No. 3
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

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(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

MARDICK AVENUE
SIDE STREET PLAN/PROFILE

20 0 20 40

Scales Horiz. 1" = 20' Vert. 1" = 4'

Sheet SS7 of SS11

TRACS No. SS975 01C

Pentable: 152226_PL010R0R.TBL
Plotdriver: 152226_VBhalf_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
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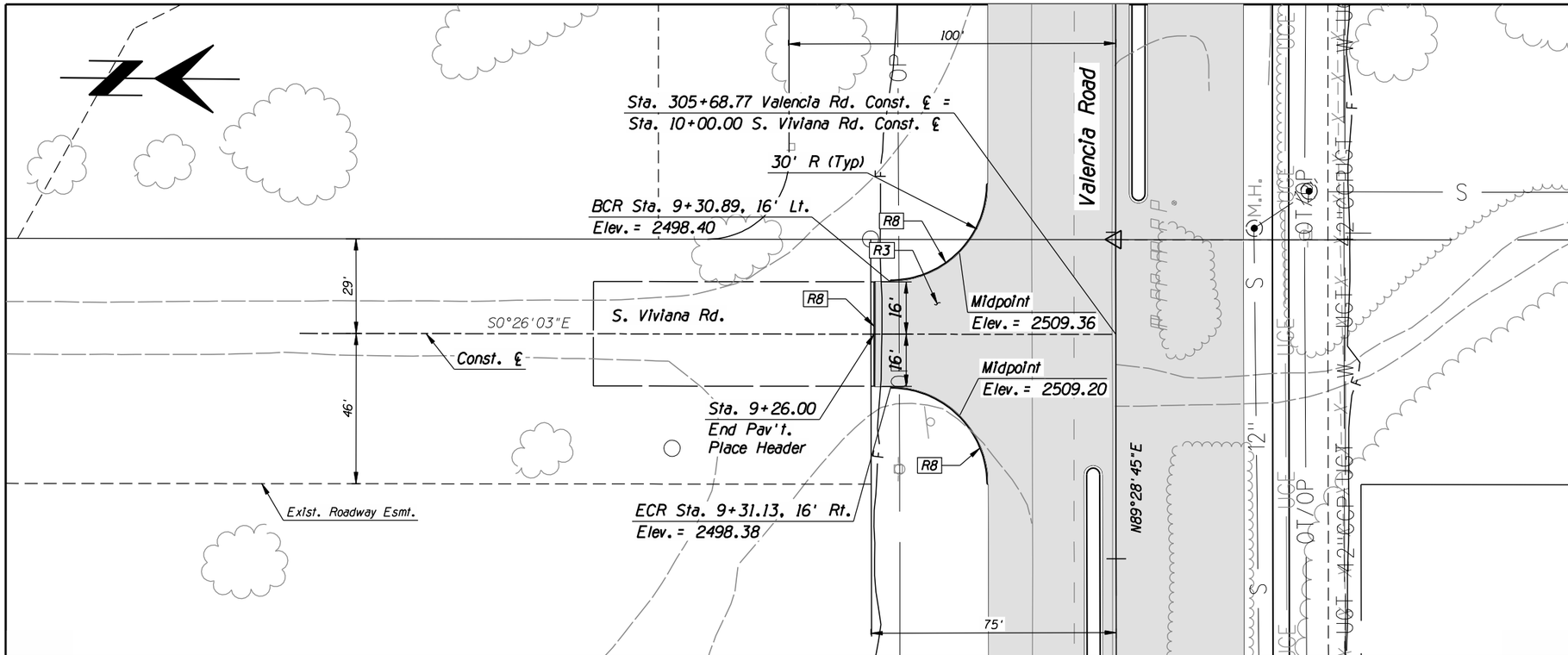
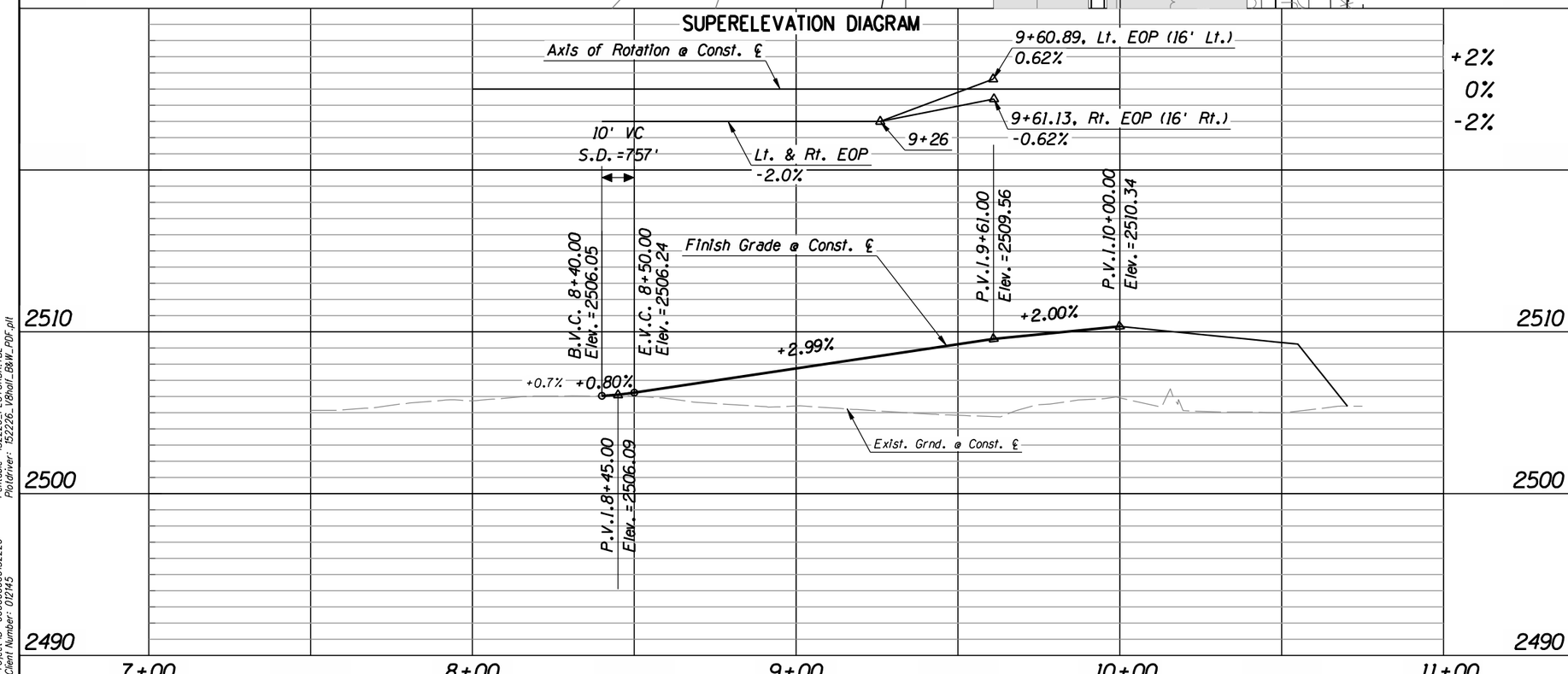


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R3	--	S.Y.	Pav't Struct. Sec. No. 3
R8	--	L.F.	Concrete Header PC/COT Std. Dtl. 213

SUPERELEVATION DIAGRAM



VIVIANA ROAD
SIDE STREET PLAN/PROFILE

20 0 20 40

Scales	Horiz. 1" = 20'	Sheet SS8 of SS11	Page 69 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
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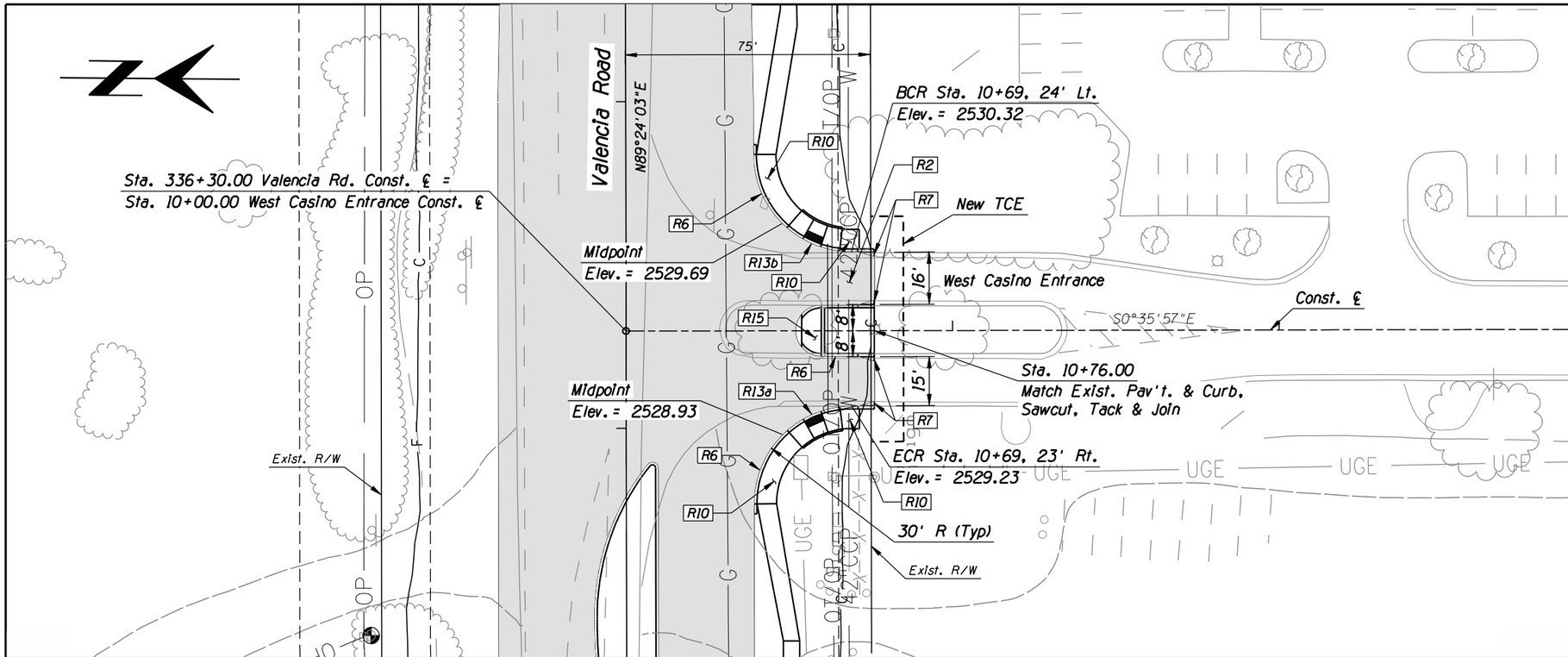
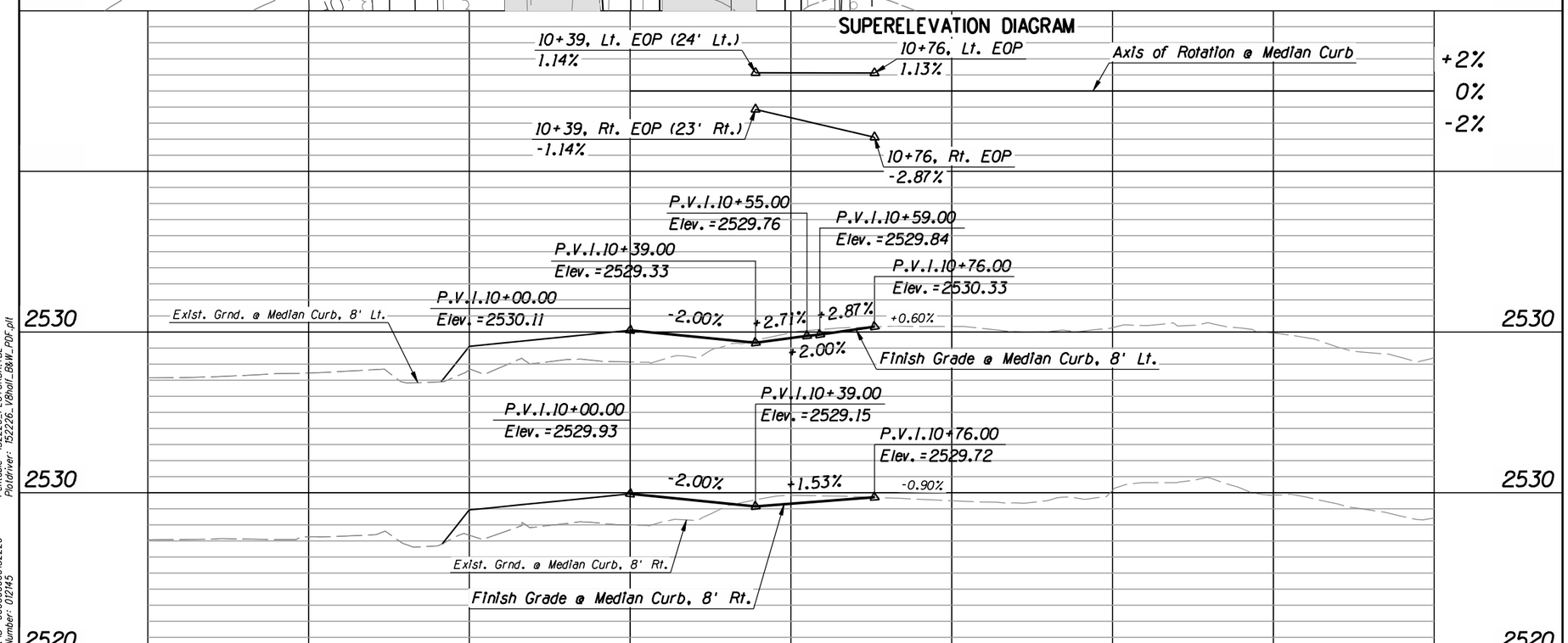
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R7	--	L.F.	Curb Transition See Detail XXX
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R13	2	Each	Curb Access Ramp PC Std. Dtl. 207, Type 1
a	1	Each	Sta. 336+04.24, 56.80' Rt.
b	1	Each	Sta. 336+56.43, 56.80' Rt.
R15	1	Each	Median Refuge Area, Type 1 PC/COT Std. Dtl. 214 Sheet 4 of 5

Priscilla S. Cornelio, P.E., Director

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
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SEPTEMBER 2011
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VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pima County Department of Transportation

WEST CASINO ENTRANCE
SIDE STREET PLAN/PROFILE

20 0 20 40

Scales Horiz. 1"=20' Vert. 1"=4'

Sheet SS9 of SS11

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000001152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
Model: B02C103

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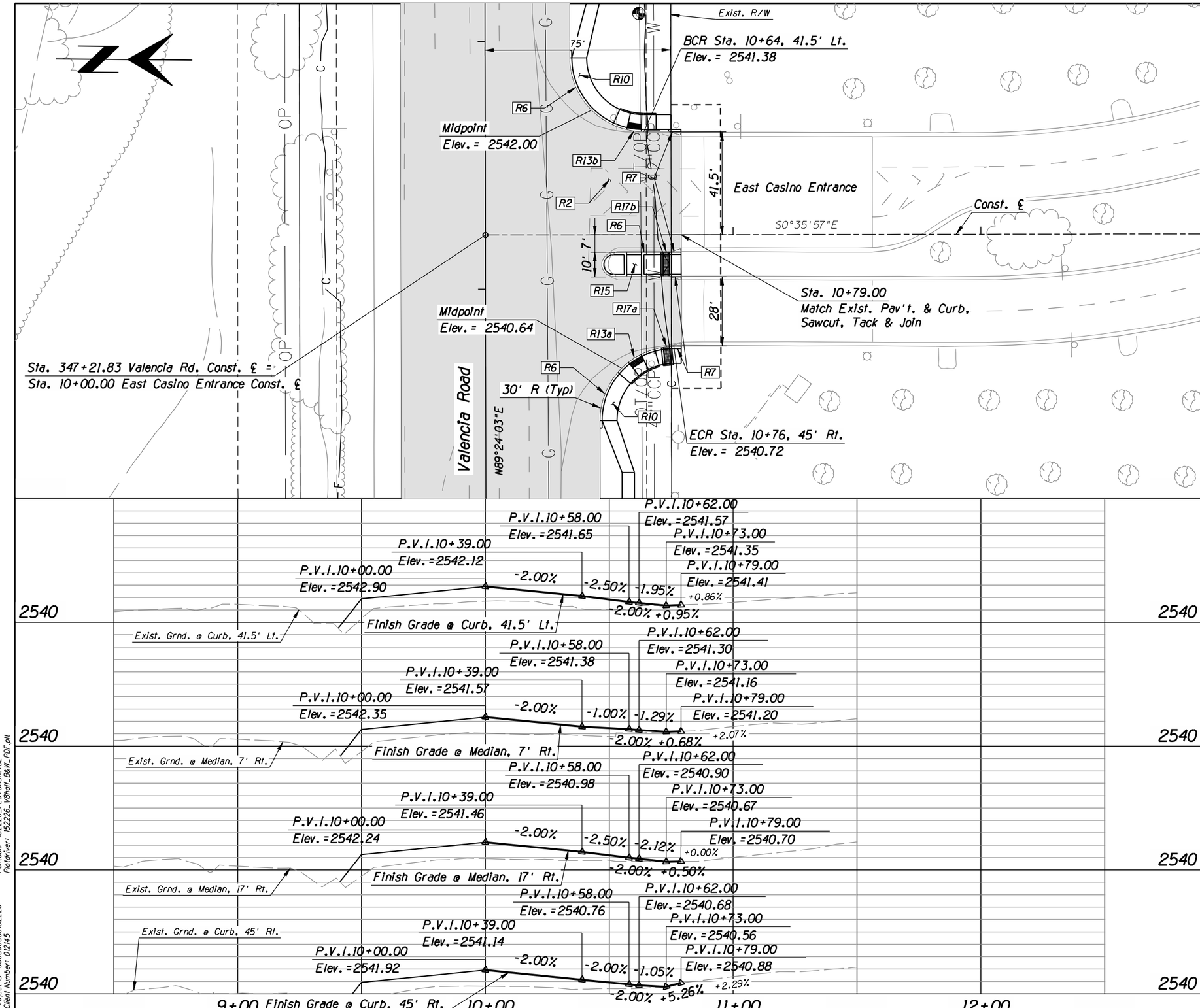
Print Scale: 1:40



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R7	--	L.F.	Curb Transition See Detail XXX
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 6' Width
R13	2	Each	Curb Access Ramp PC Std. Dtl. 207, Type 1
a	1	Each	Sta. 10+60.00, 49.62' Rt.
b	1	Each	Sta. 10+60.00, 41.77' Lt.
R15	1	Each	Median Refuge Area, Type 1 PC/COT Std. Dtl. 214 Sheet 4 of 5
R17	2	Each	Scupper, Type 2 PC/COT Std. Dtl. 205 (Omit Barricade Railing)
a	1	Each	Sta. 10+73.00, 7.00' Rt.
b	1	Each	Sta. 10+73.00, 45.15' Rt.

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
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HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

EAST CASINO ENTRANCE
SIDE STREET PLAN/PROFILE

20 0 20 40

Scales Horiz. 1"=20' Vert. 1"=4'

Sheet SS10 of SS11

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
Model: B02C104

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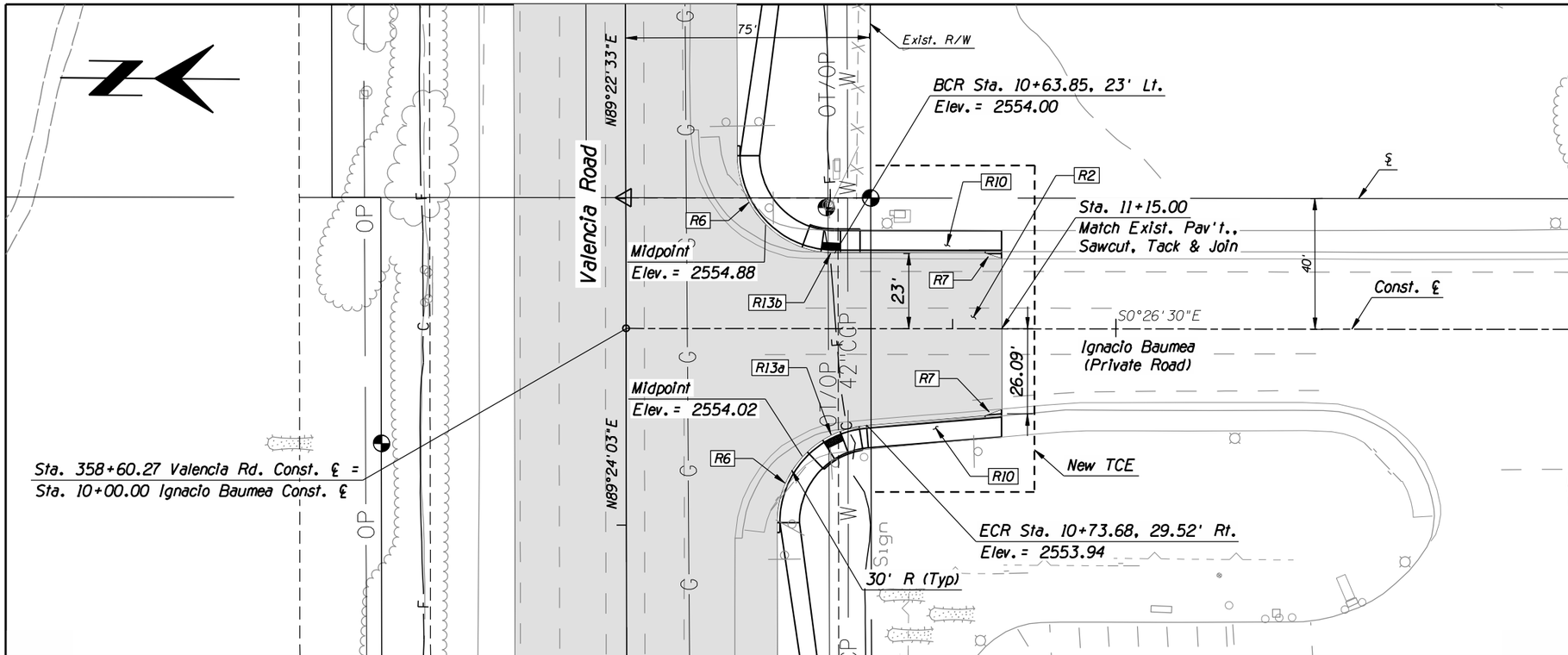
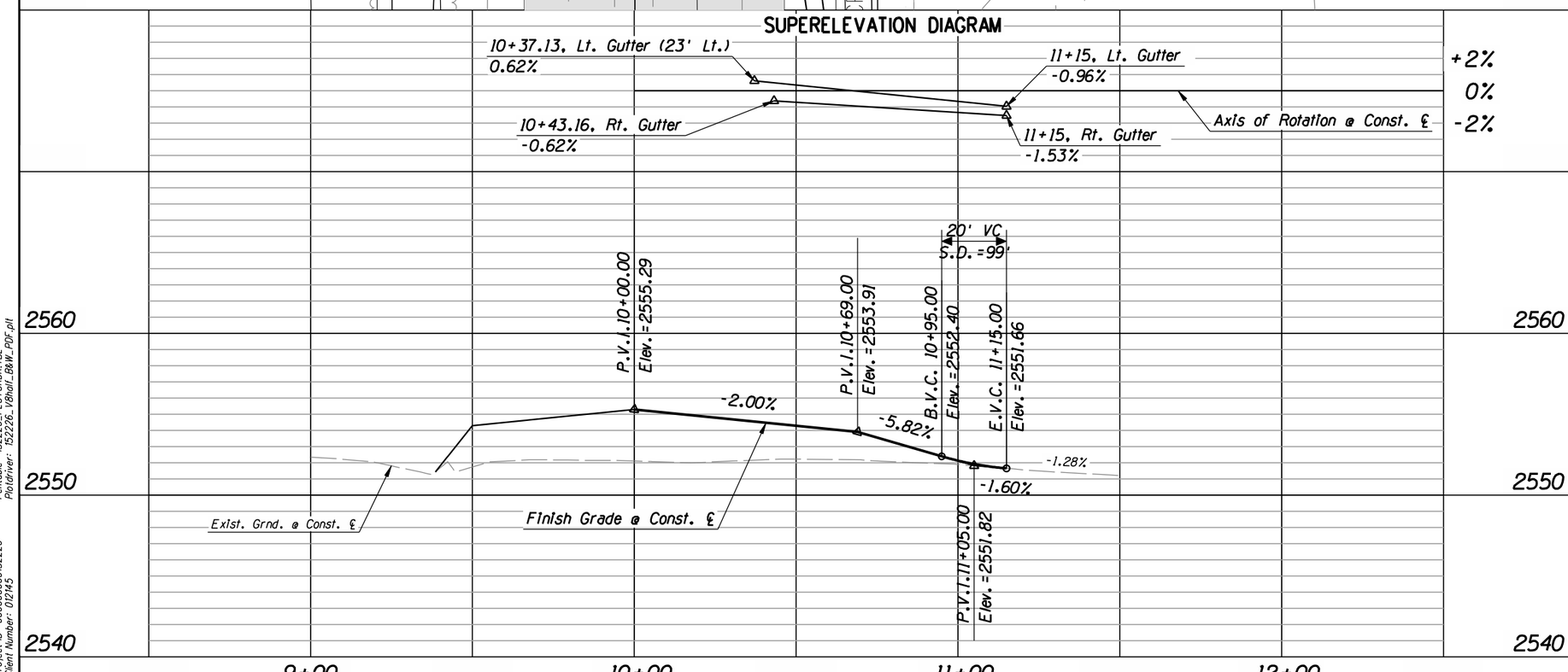
Print Scale: 1:40





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Item No.	Qty.	Unit	Description
R2	--	S.Y.	Pav't Struct. Sec. No. 2
R6	--	L.F.	Vertical Curb, Type 1 PC/COT Std. Dtl. 209, H=6"
R7	--	L.F.	Curb Transition See Detail XXX
R10	--	S.F.	Concrete Sidewalk, PC/COT Std. Dtl. 200, 5' Width
R13	--	Each	Curb Access Ramp PC Std. Dtl. 207, Type 1
a	1	Each	Sta. XXX+XX, XX.XX' Lt.
b	1	Each	Sta. XXX+XX, XX.XX' Lt.

IGNACIO BAUMEA
SIDE STREET PLAN/PROFILE

20 0 20 40

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	KAM	04/2011
Drawn	KAM, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales Horiz. 1" = 20' Vert. 1" = 4'

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.pll

Project ID: 0000000015 2226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Civil\Wade to Mark\02C-101.dgn
Model: B02C105
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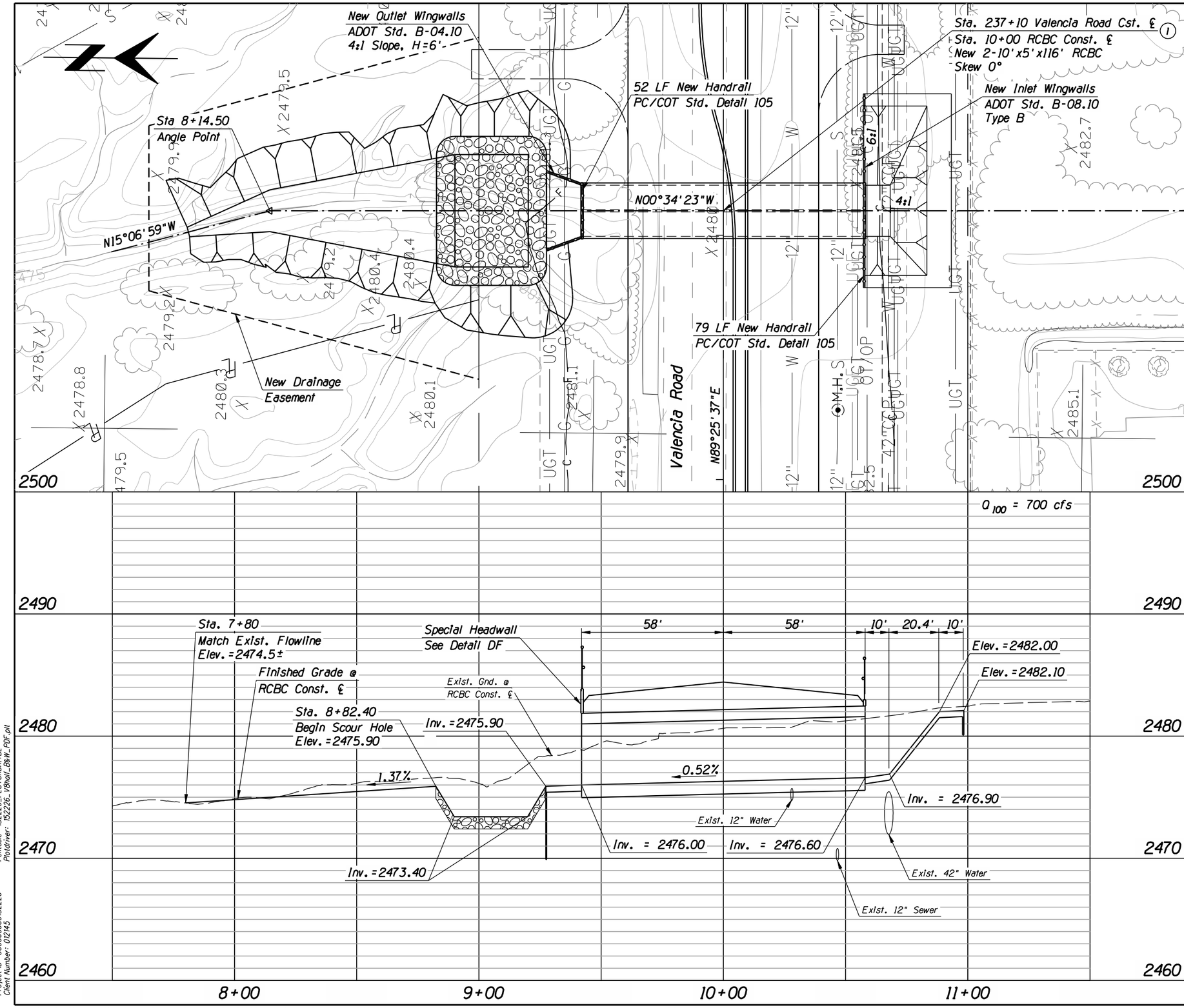


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					

Priscilla S. Cornelio, P.E., Director

Designed	ABL	04/2011
Drawn	ABL, EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

STA. 237+10
CULVERT PLAN/PROFILE

Scales: Horiz. 1"=20' Vert. 1"=4'

Sheet D1 of D13

TRACS No. SS975 01C

Print Scale: 1:40

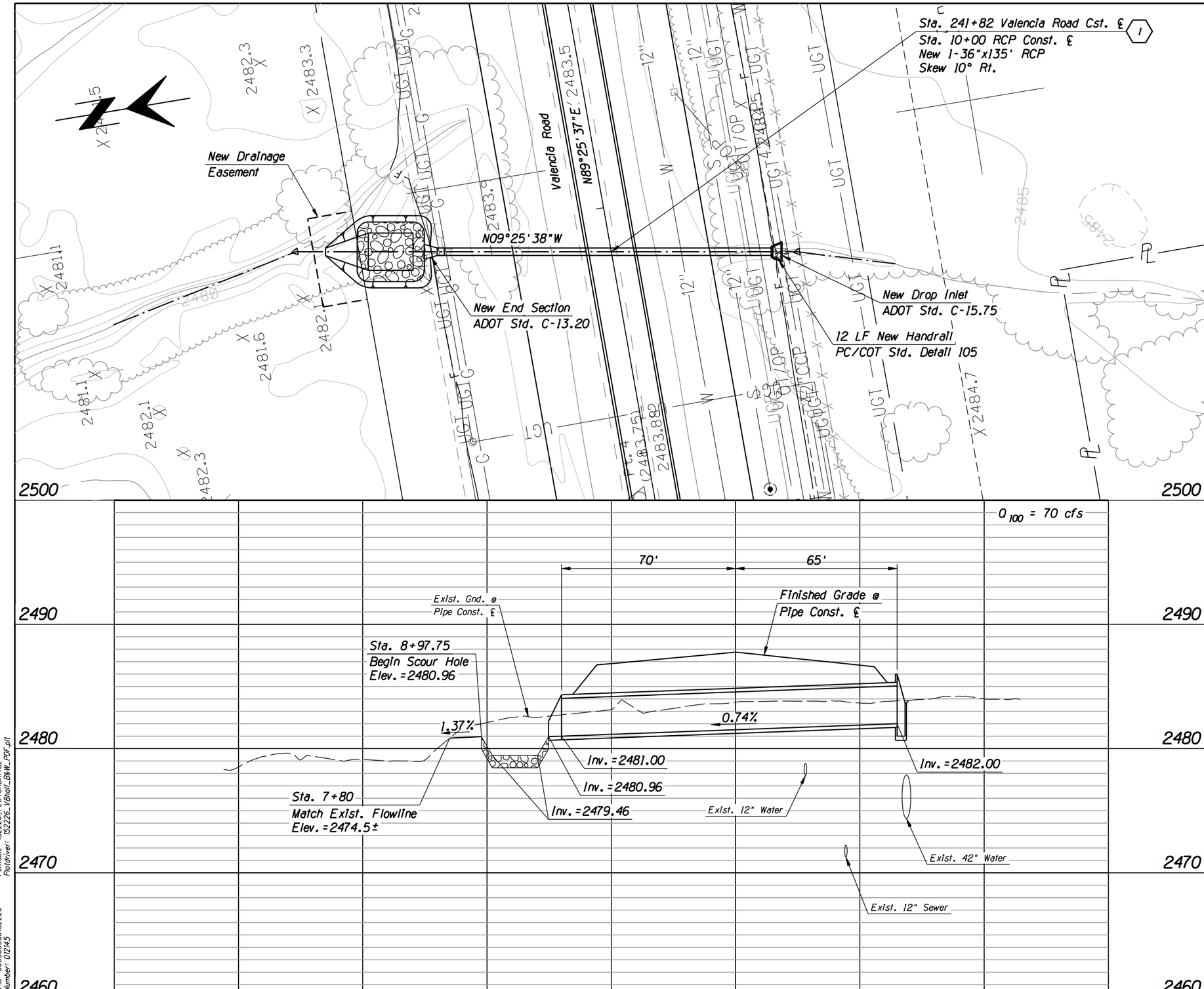
Penfable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
Model: B11C001

Printed By: aledesma Date: 09\07\11 11:25:15 AM

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



STA. 241+82
CULVERT PLAN/PROFILE

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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HDR Engineering, Inc.
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(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

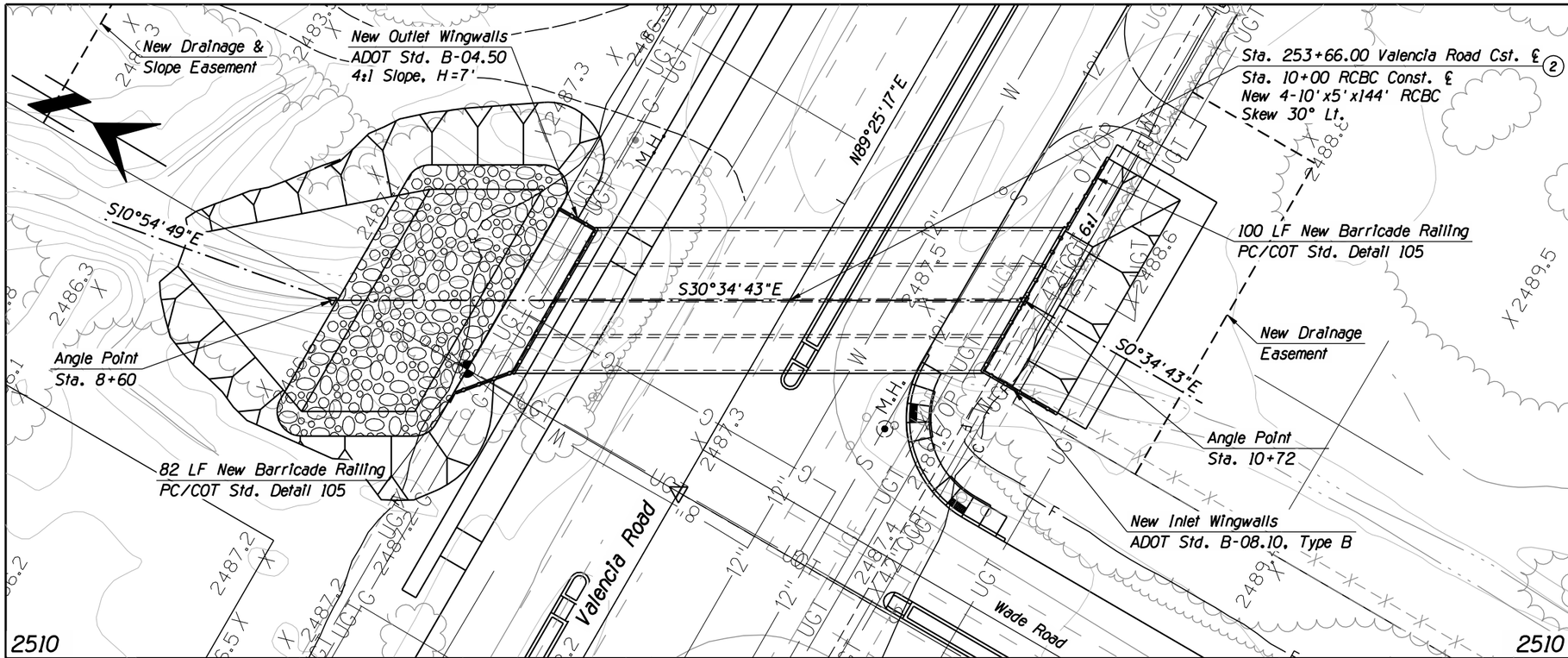
Scales	Horiz. 1" = 20'	Sheet D2 of D13	Page 74 of 148
	Vert. 1" = 4'		

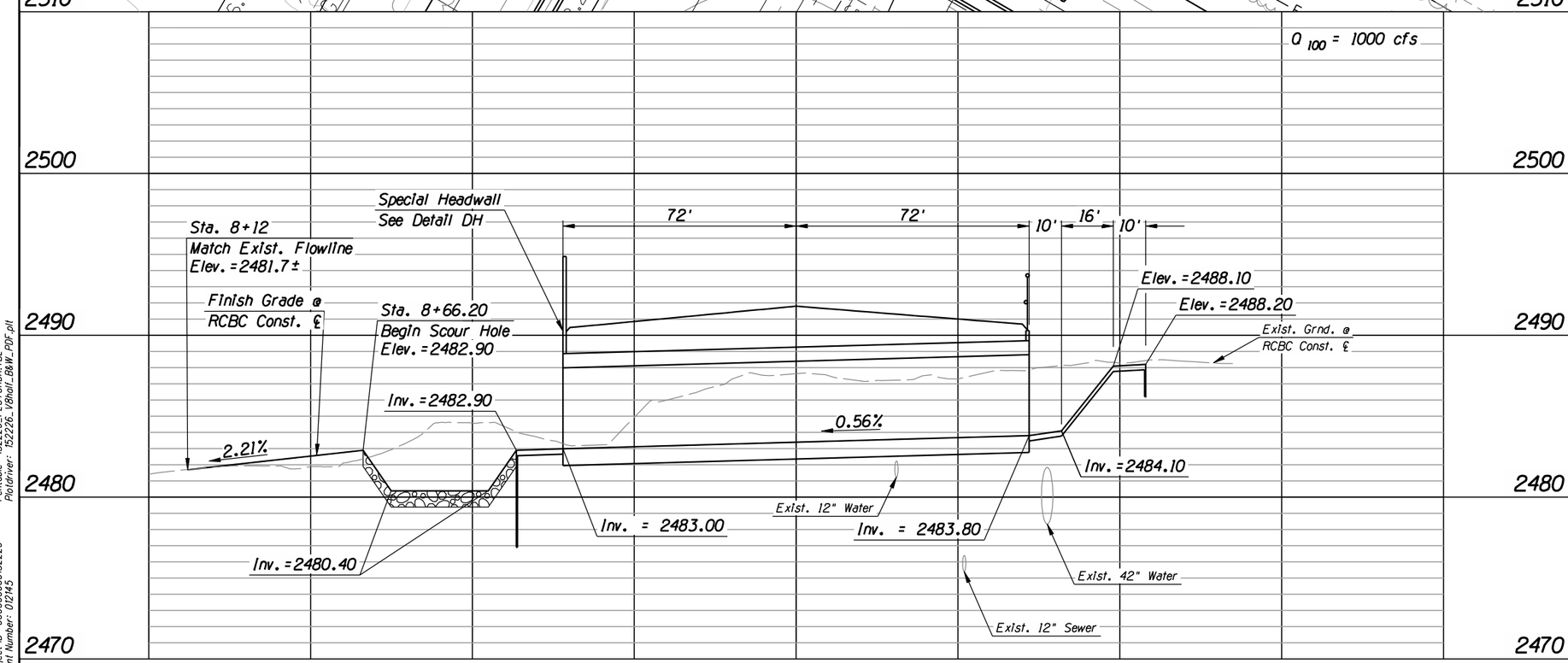
TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000015226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					





Pritsilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	EB	04/2011
Drawn	EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

Pima County Department of Transportation

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5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

STA. 253+66
CULVERT PLAN/PROFILE

Scales: Horiz. 1" = 20'; Vert. 1" = 4'

Sheet D3 of D13

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_VBhalf_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
Model: B11C021
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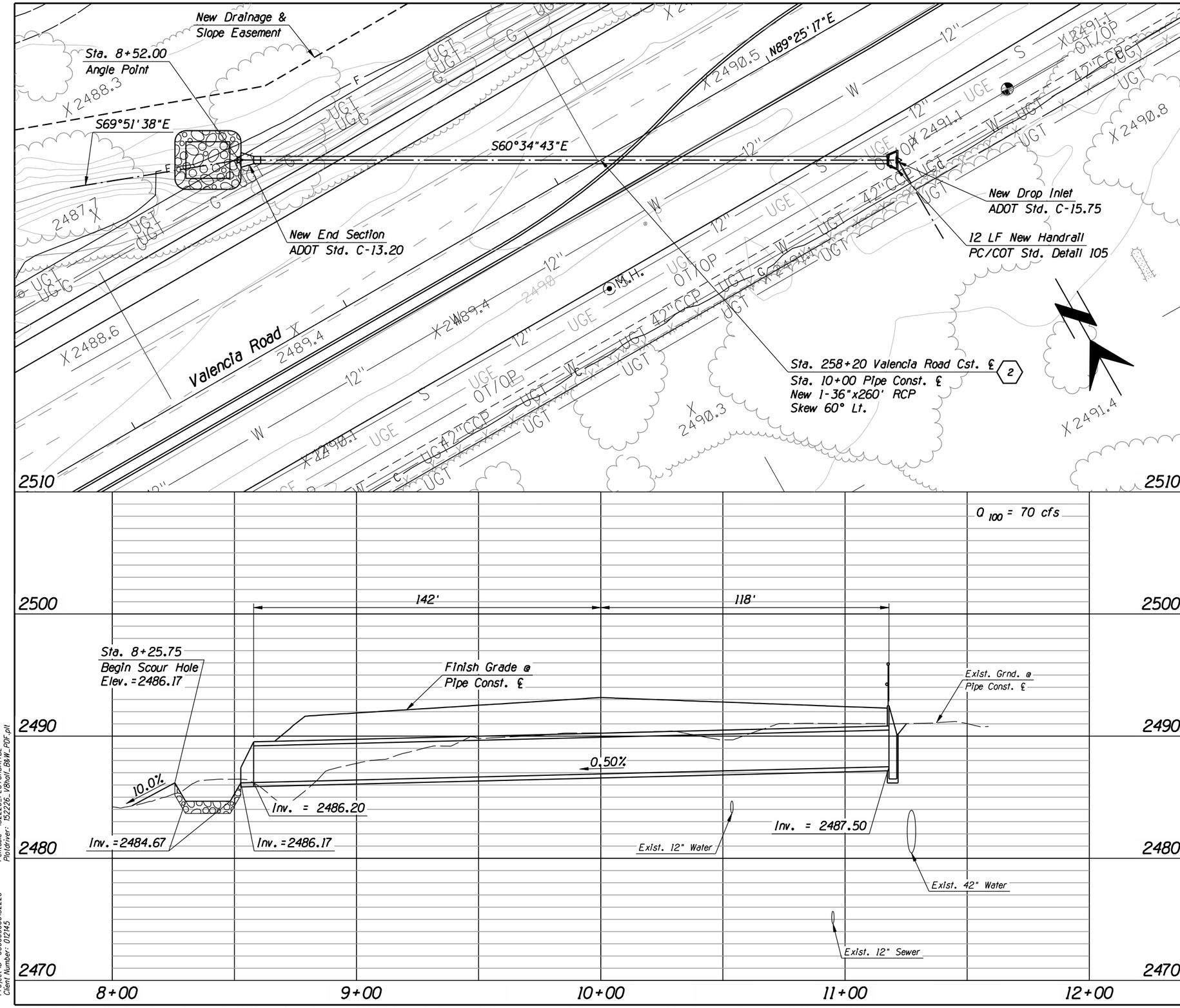
Print Scale: 1:40

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



STA. 258+20
CULVERT PLAN/PROFILE

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	EEB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

STAGE II
SUBMITTAL
SEPTEMBER 2011
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Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=20'	Sheet D4 of D13	Page 76 of 148
	Vert. 1"=4'		

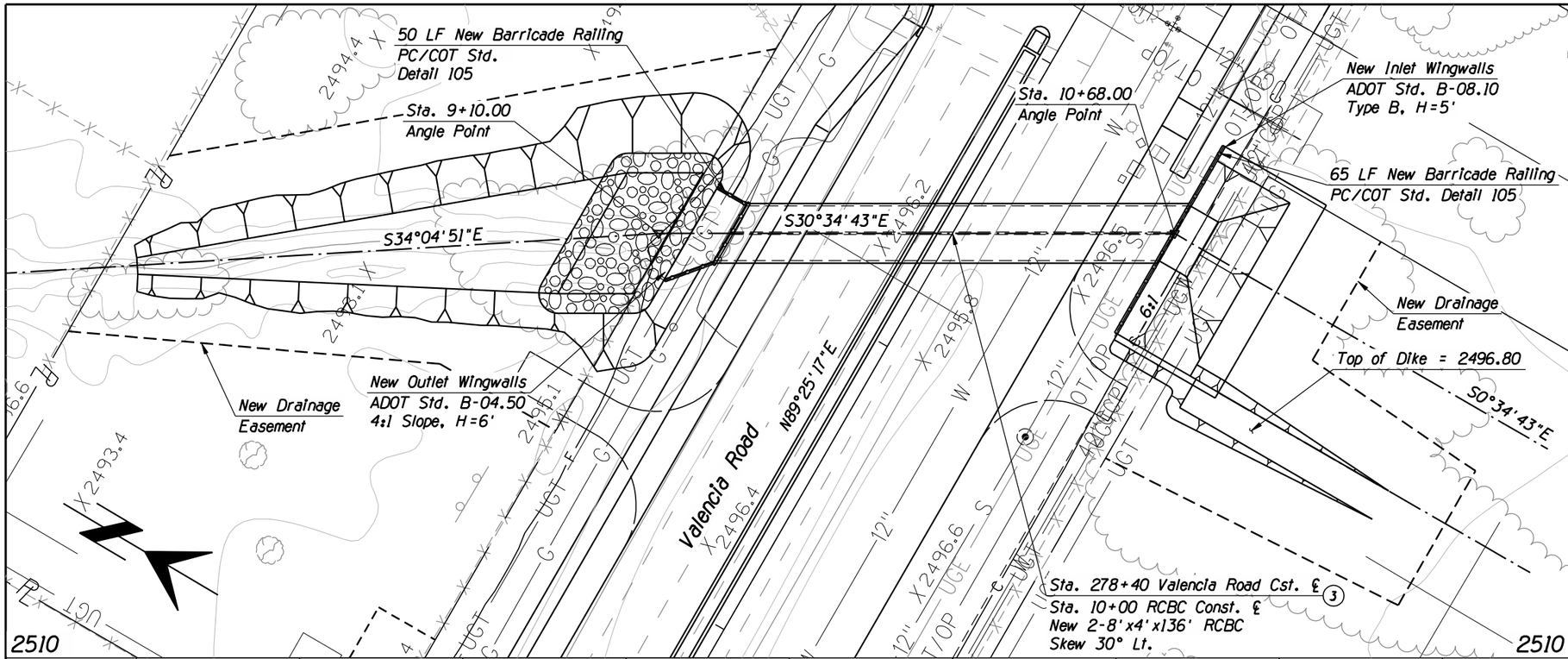
Print Scale: 1:40

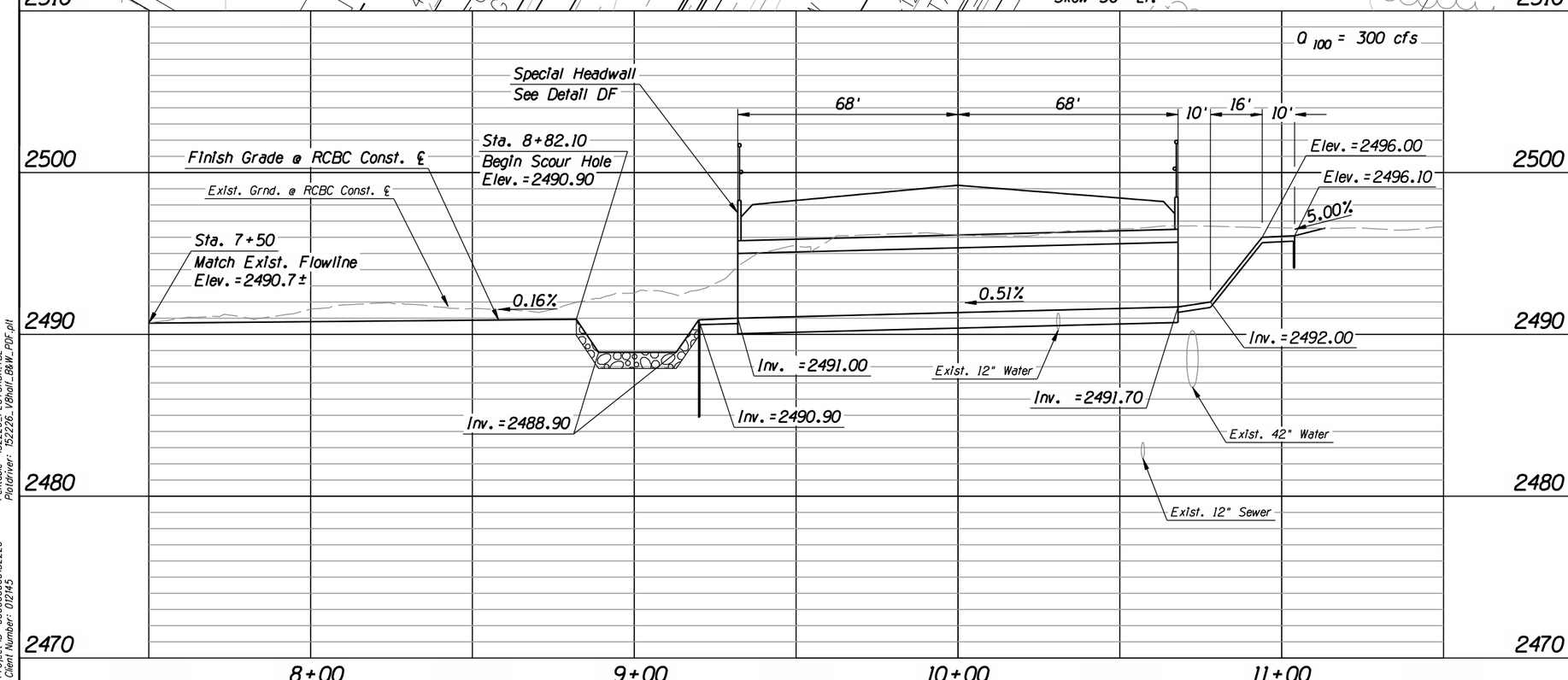
TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.pll

Project ID: 0000000000152226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			





STA. 278+40
CULVERT PLAN/PROFILE

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	EBL, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales: Horiz. 1"=20' Vert. 1"=4'

Sheet D5 of D13

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
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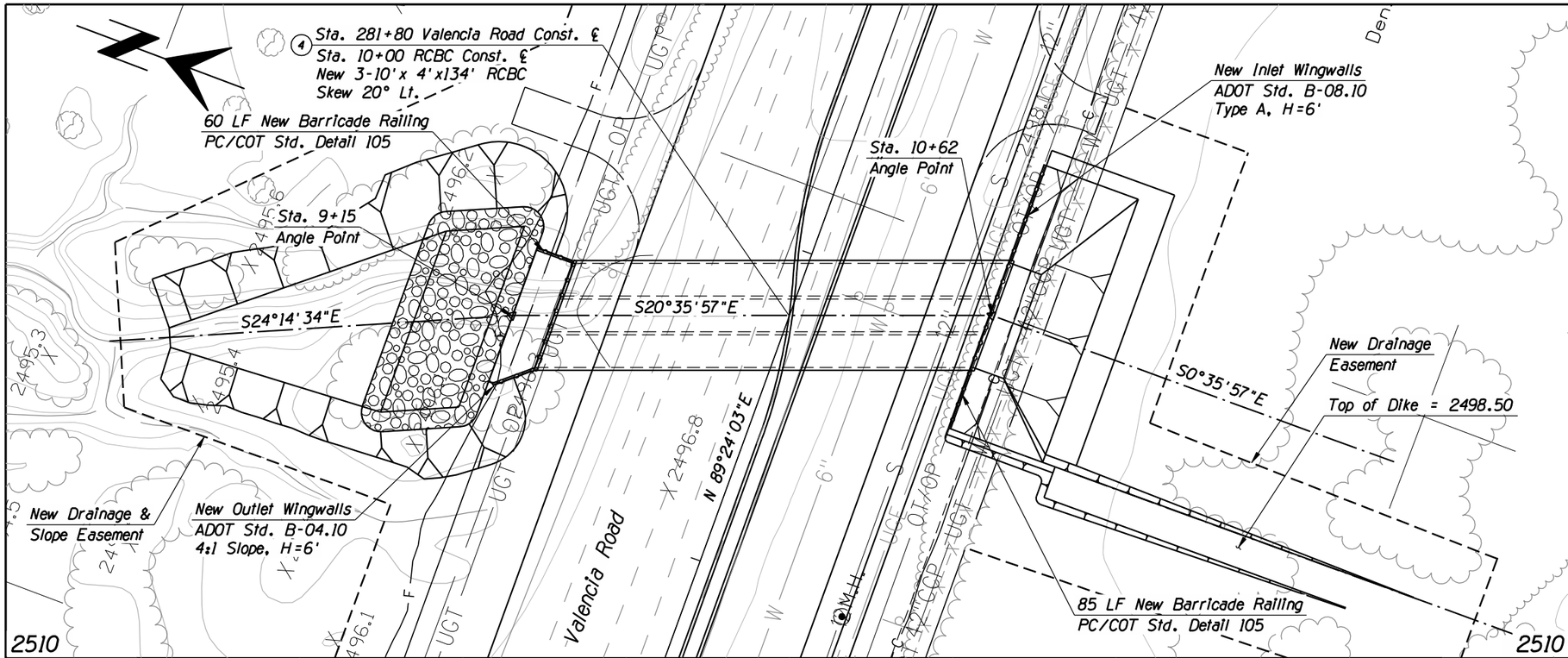
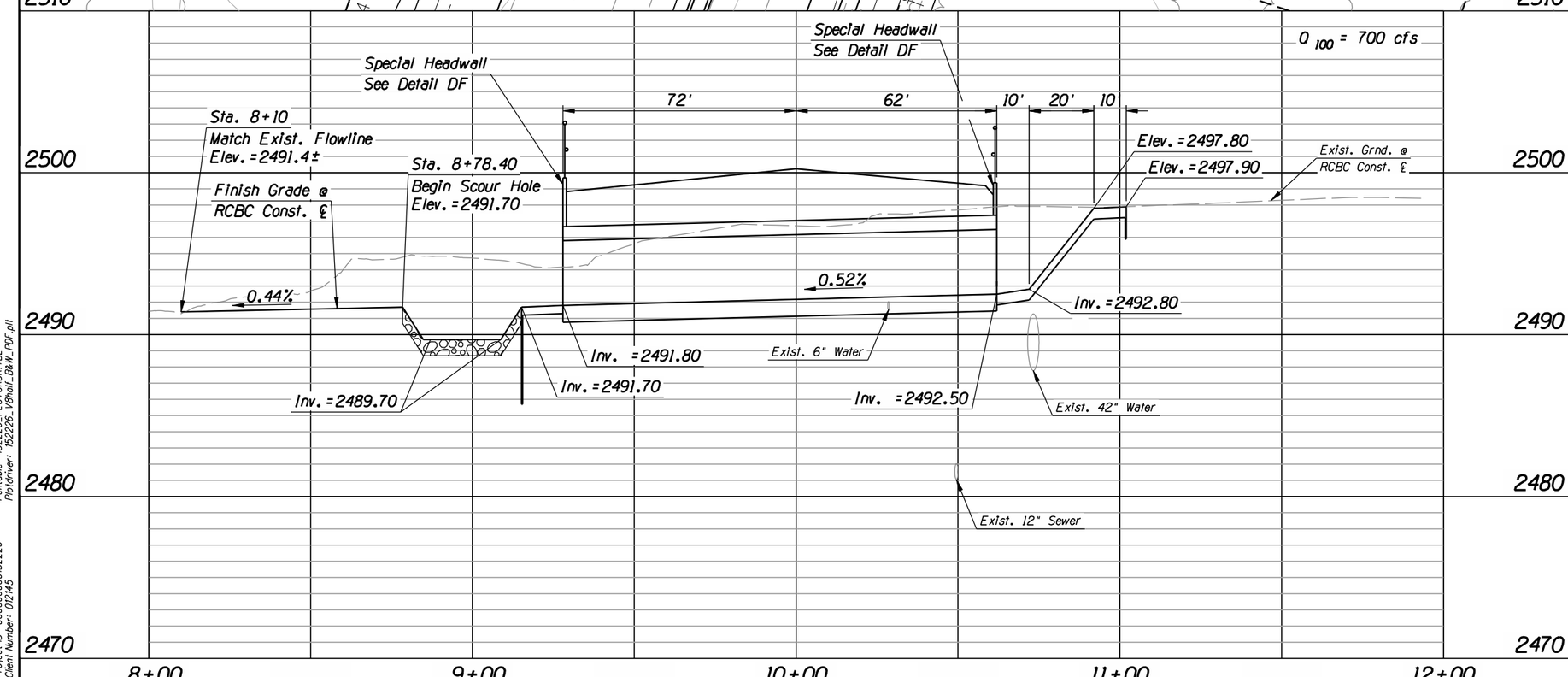
Print Scale: 1:40

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					





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Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

STA. 281+80
CULVERT PLAN/PROFILE

Scales	Horiz. 1" = 20'	Sheet D6 of D13	Page 78 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
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Print Scale: 1:40

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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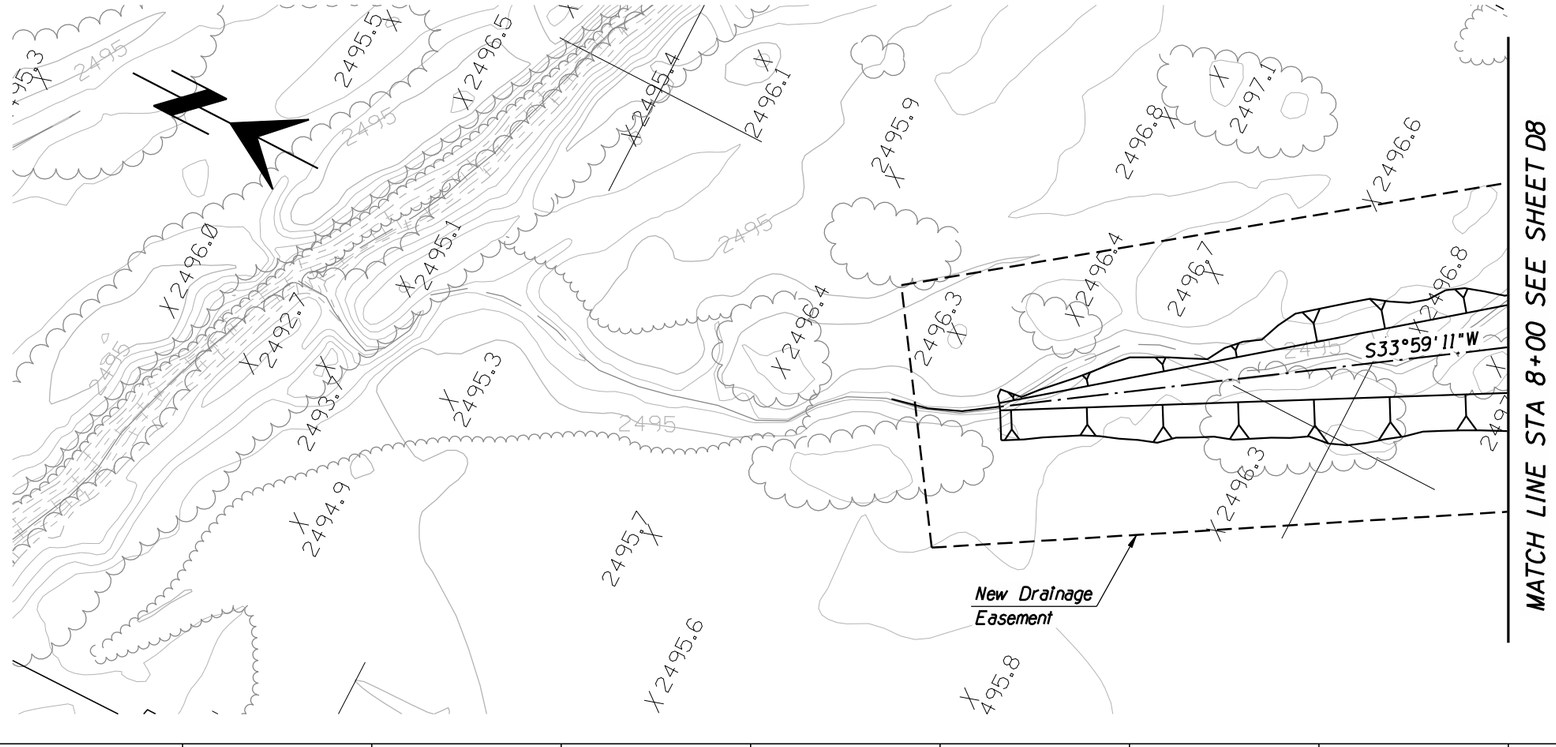
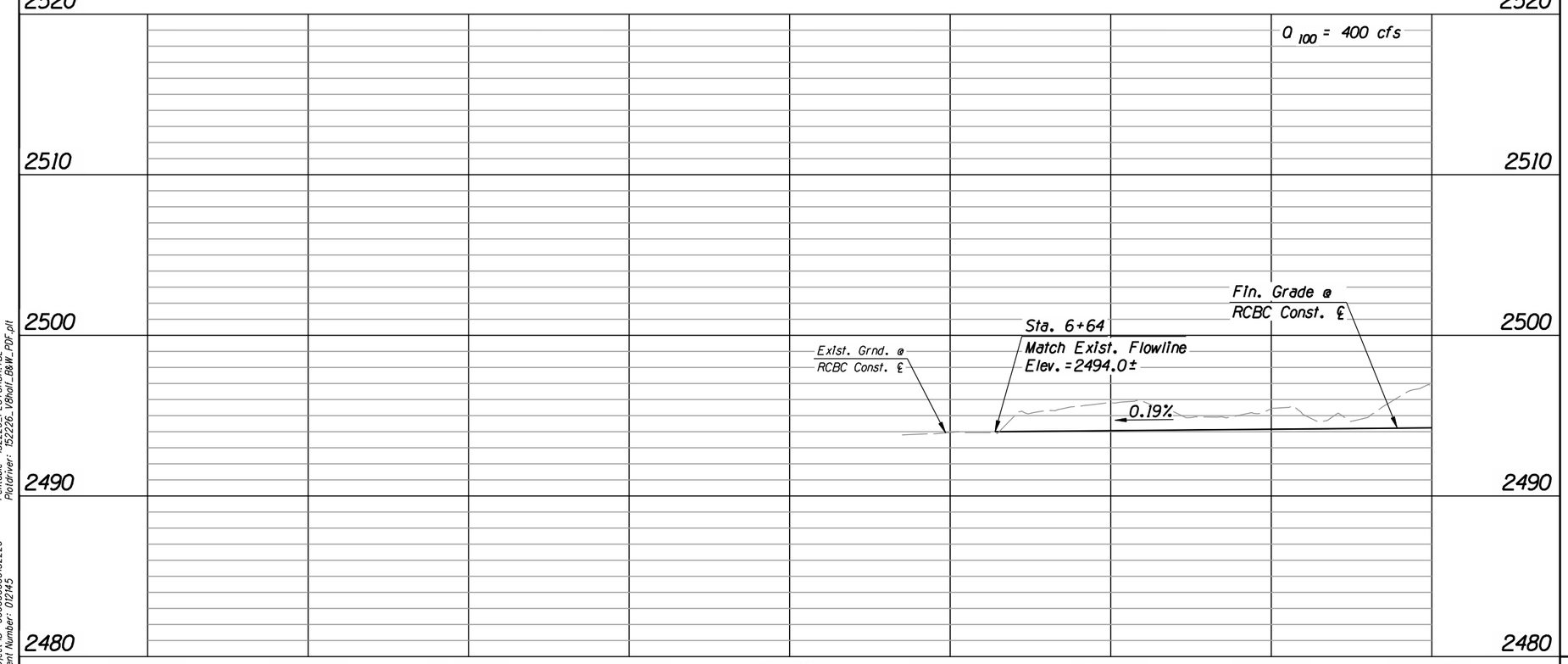
		0000 PM PPM			





STA. 289+70
SHEET 1 OF 2
CULVERT PLAN/PROFILE

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	EBL, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

HDR
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales Horiz. 1" = 20' Vert. 1" = 4'

Sheet D7 of D13

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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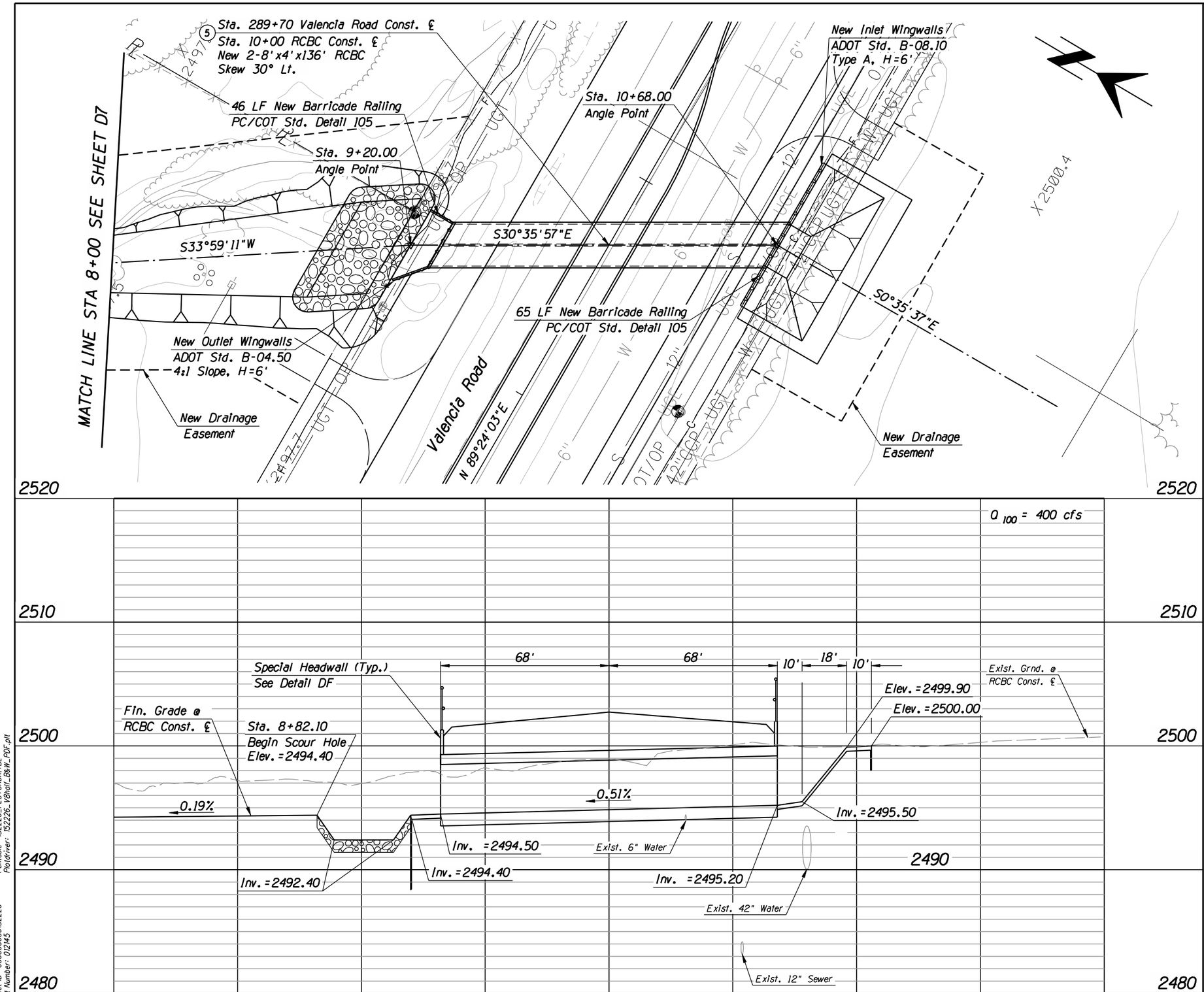
		0000 PM PPM			



STA. 289+70
SHEET 2 OF 2
CULVERT PLAN/PROFILE

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	EEG, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

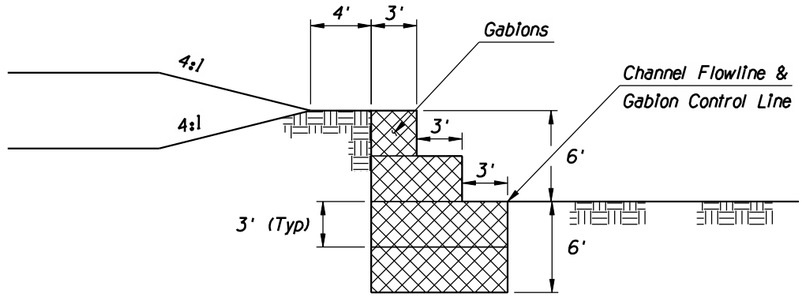
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=20'	Sheet D8 of D13	Page 80 of 148
	Vert. 1"=4'		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000000152226
Client Number: 012145



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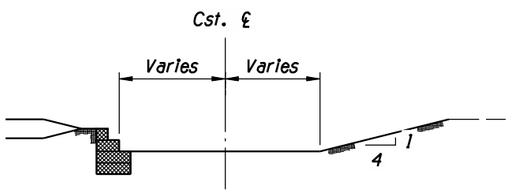

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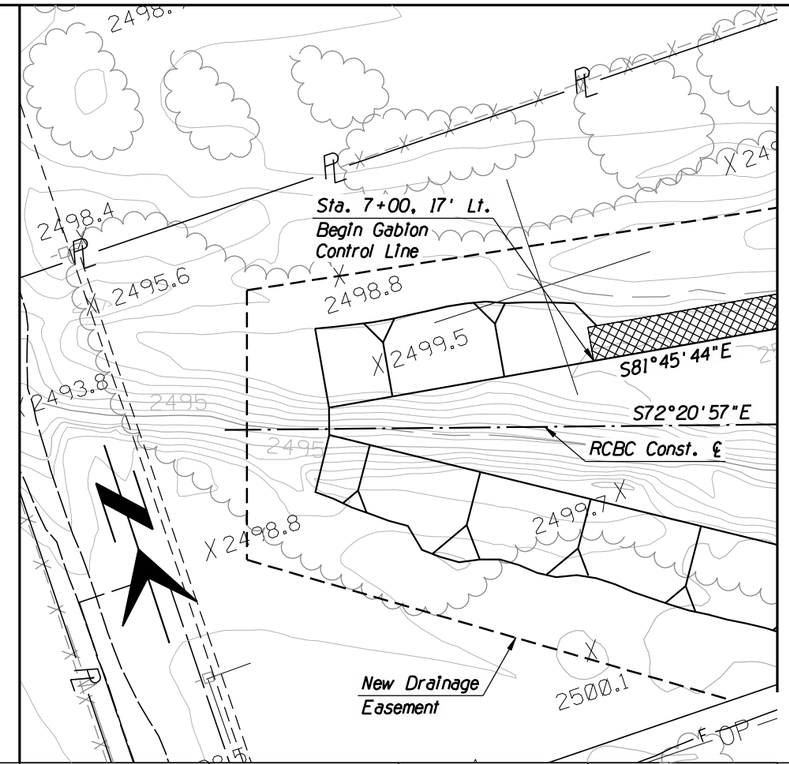
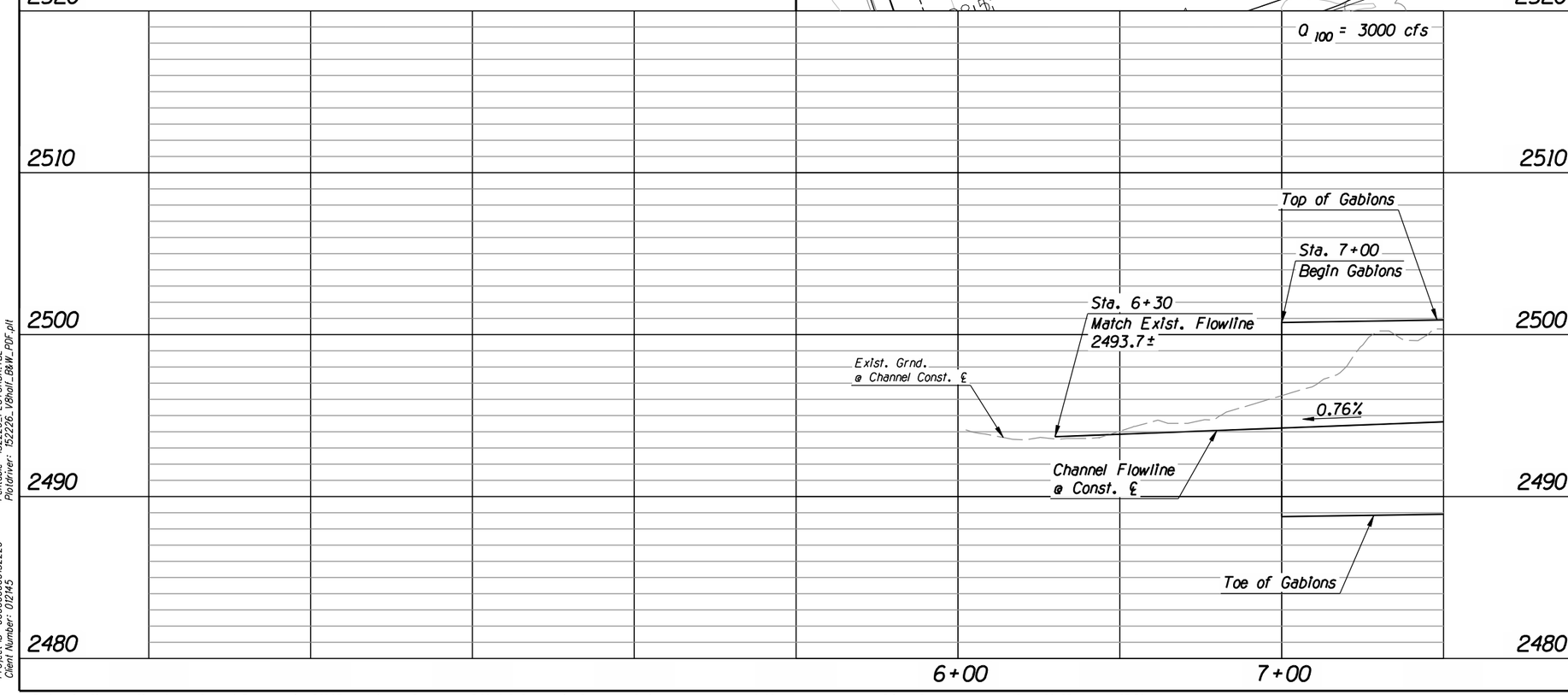
Sta 7+00 to Sta 9+18





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

STA. 296+70
SHEET 1 OF 3
CULVERT PLAN/PROFILE

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	JMF, EB	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 20'	Sheet D9 of D13	Page 81 of 148
	Vert. 1" = 4'		

TRACS No. SS975 01C

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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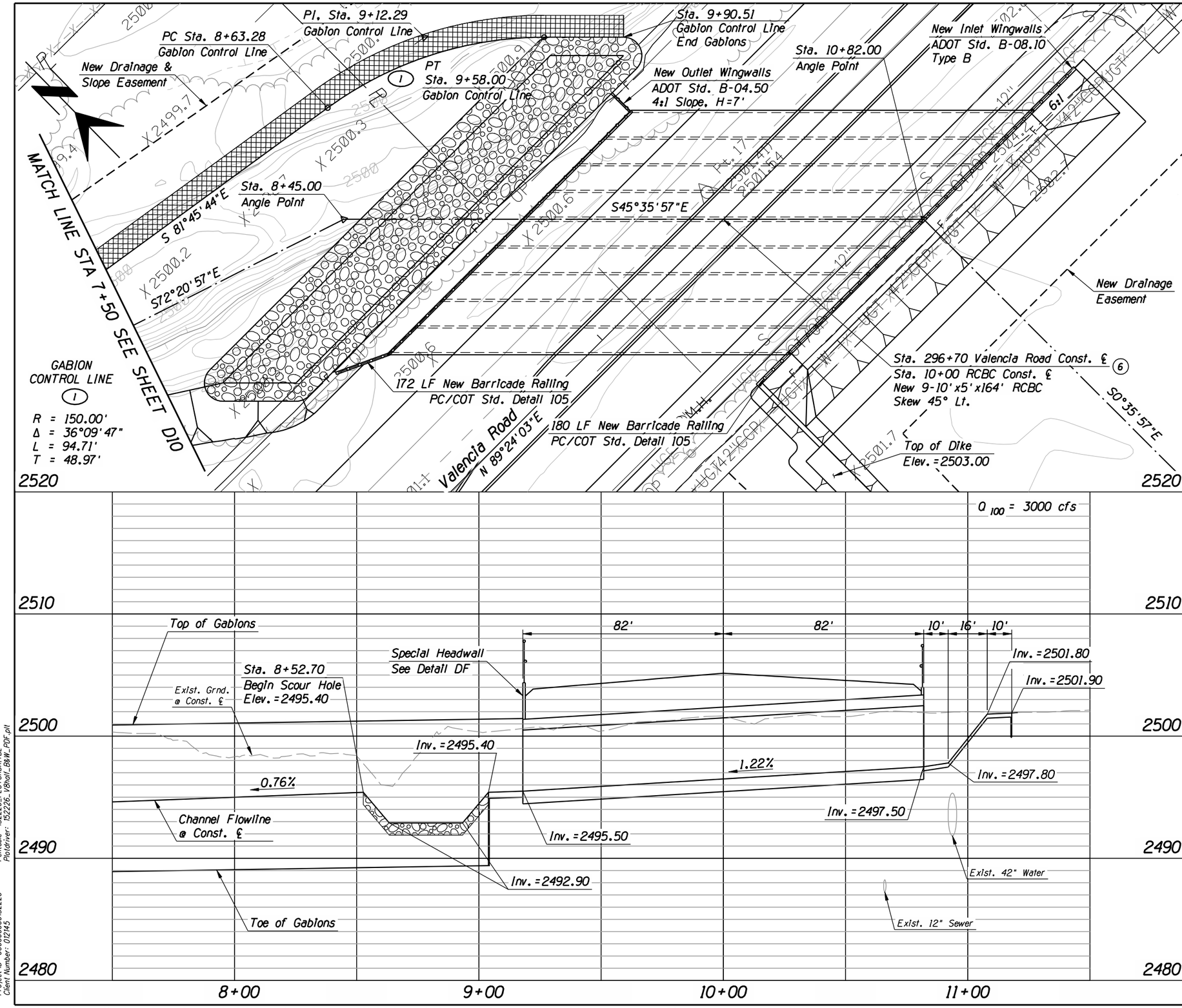

STA. 296+70
SHEET 2 OF 3
CULVERT PLAN/PROFILE

No.	Revision Description	Engineer	Date

		Date
Designed	ABL	04/2011
Drawn	EB, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
SEPTEMBER 2011
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HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales: Horiz. 1" = 20'; Vert. 1" = 4'

Sheet D10 of D13

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 0000000015226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
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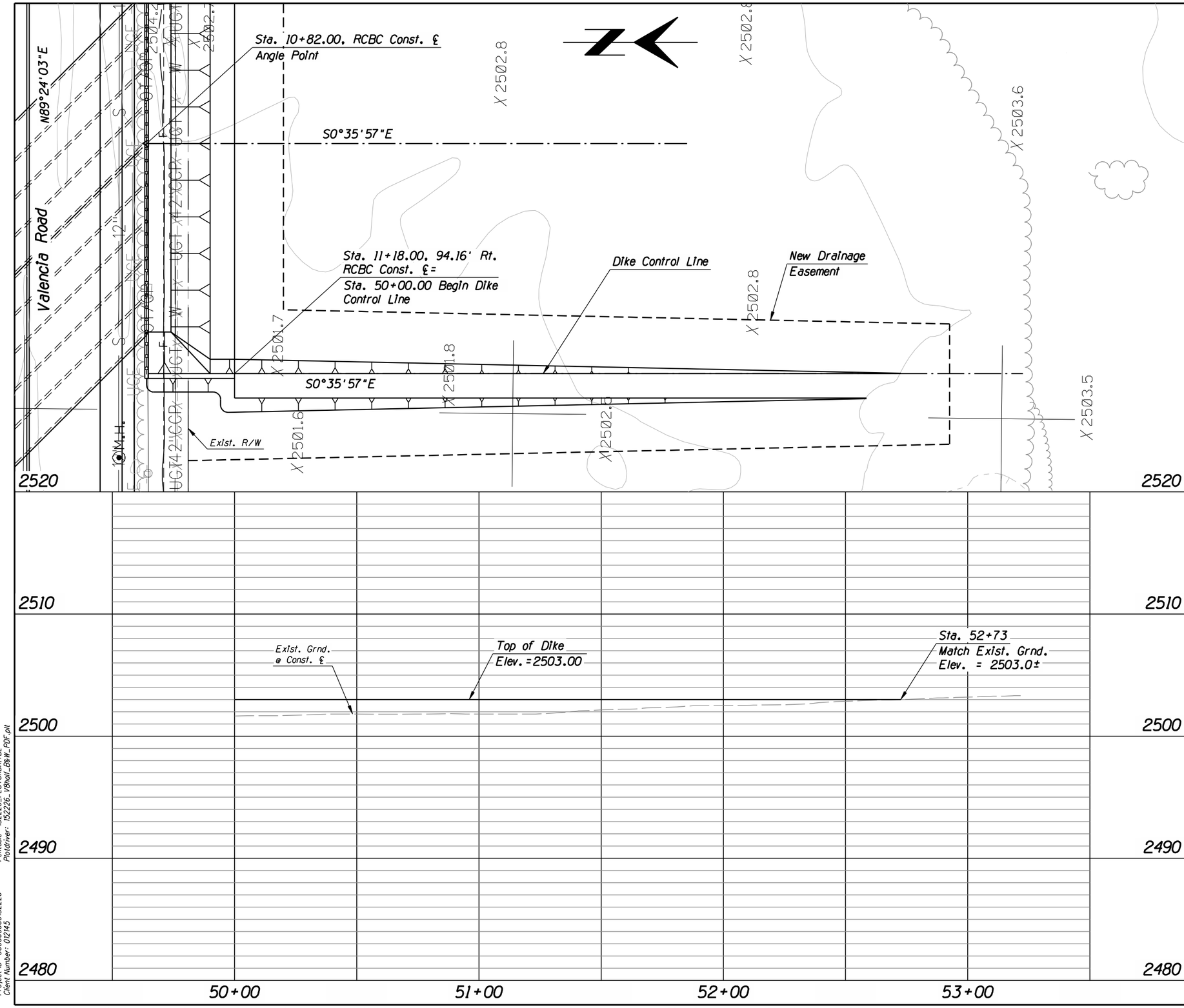

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

STA. 296+70
SHEET 3 OF 3
CULVERT PLAN/PROFILE

Scales: Horiz. 1" = 20'; Vert. 1" = 4'

Sheet D11 of D13

Page 83 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

	Date
Designed	04/2011
Drawn	04/2011
Checked	04/2011
Proj. Engr.	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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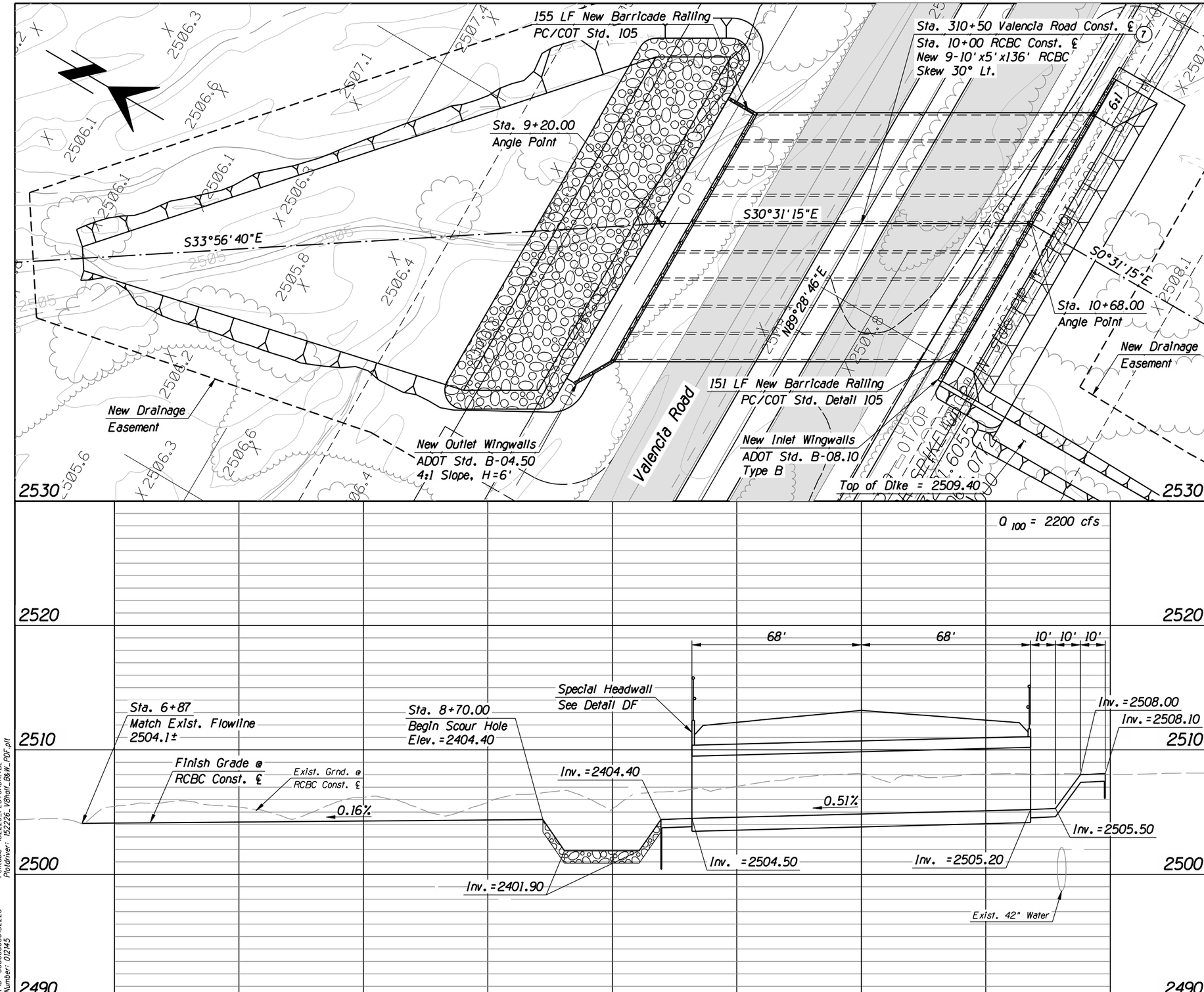

STA. 310+50
SHEET 1 OF 2
CULVERT PLAN/PROFILE

Scales	Horiz. 1"=20'	Sheet D12 of D13	Page 84 of 148
	Vert. 1"=4'		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	ABL	04/2011
Drawn	EEG, JMF	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

TRACS No. SS975 01C

Print Scale: 1:40

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
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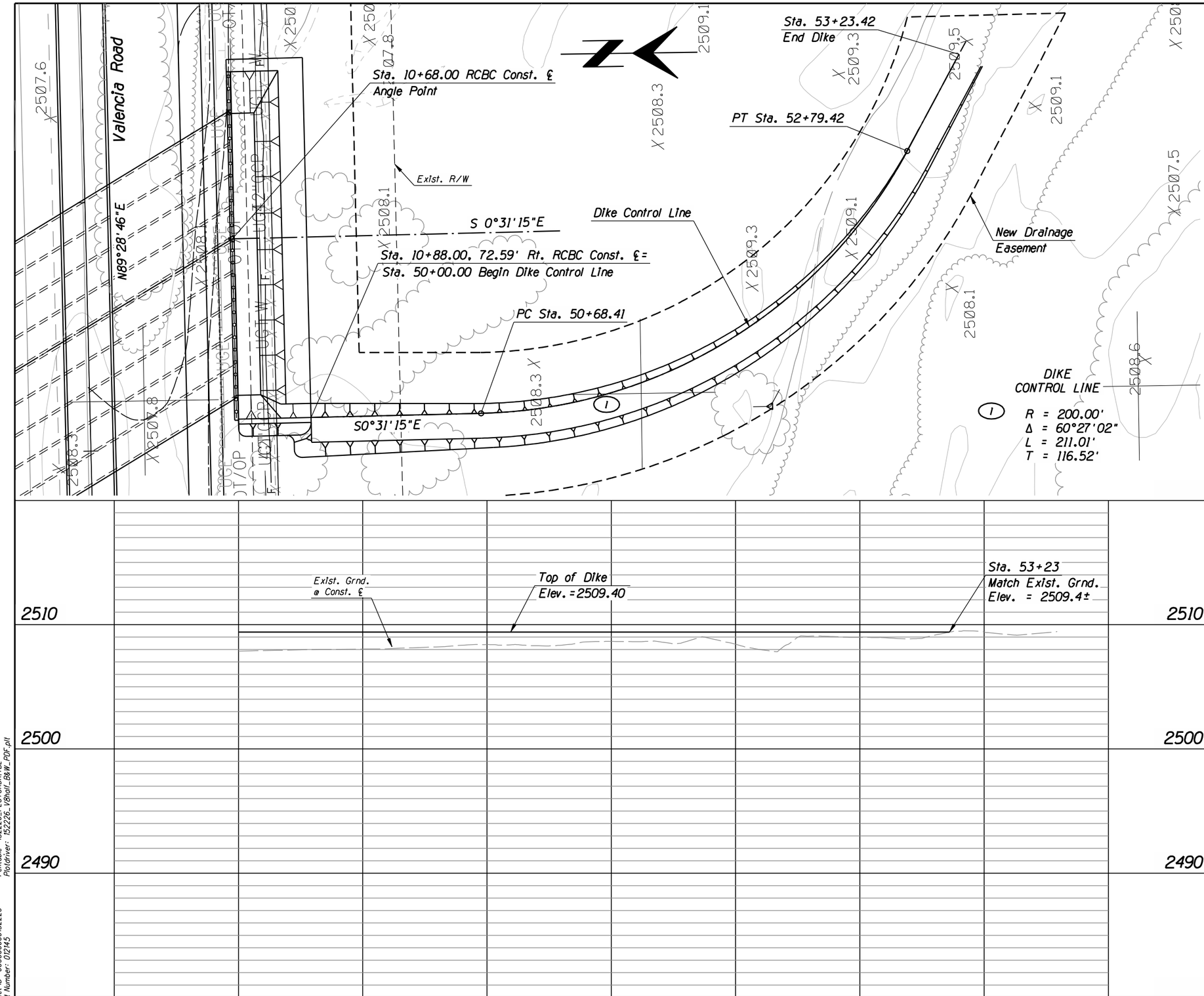

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

STA. 310+50
SHEET 2 OF 2
CULVERT PLAN/PROFILE

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	JMF	04/2011
Drawn	JMF, BJP	04/2011
Checked	RDB	04/2011
Proj. Engr.	RDB	04/2011

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales Horiz. 1"=20' Vert. 1"=4'

Sheet D13 of D13

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Construction Documents\Drainage\Wade to Mark\11C-00.dgn
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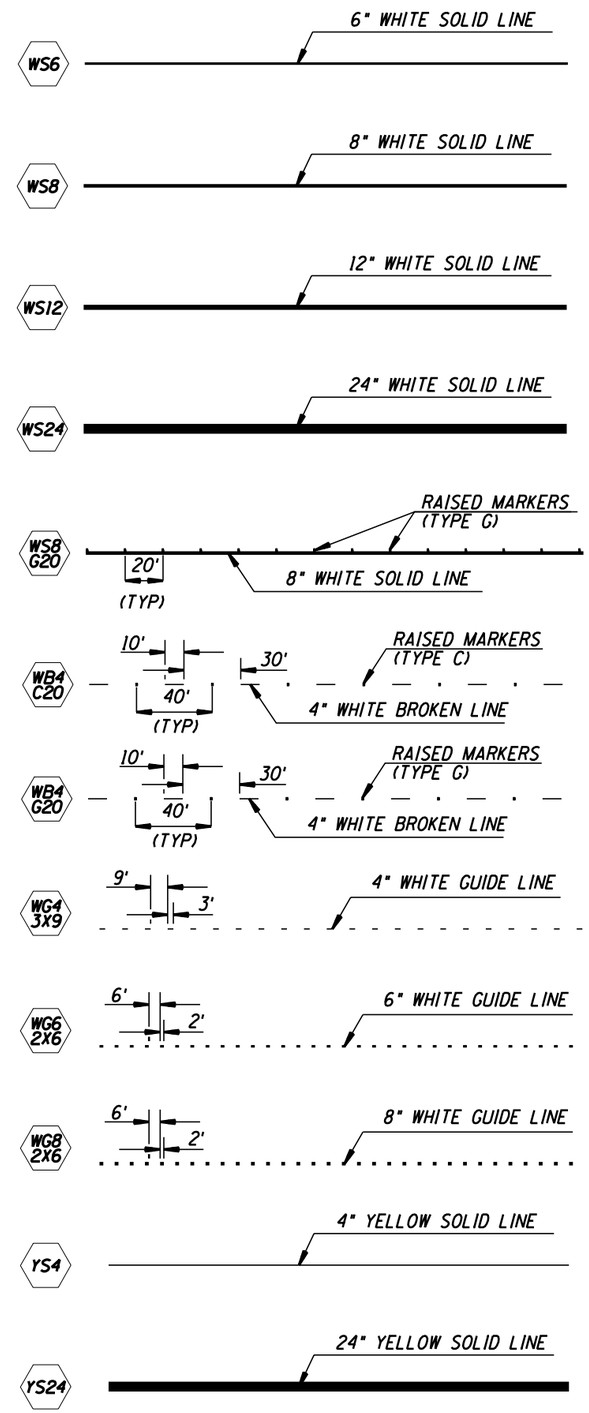
Print Scale: 1:40

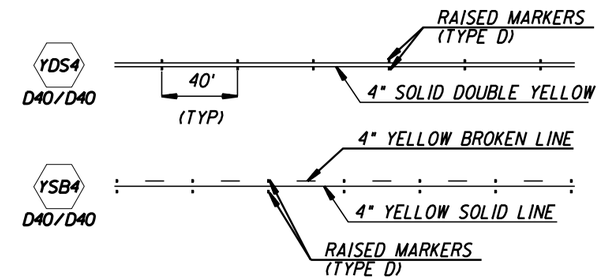
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A	—	—	————
		0000 PM PPM			

GENERAL NOTES FOR PAVEMENT MARKING PLANS

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO PIMA COUNTY / CITY OF TUCSON (PC/COT) STANDARDS AND SPECIFICATIONS.
2. THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE TRAFFIC ENGINEER.
3. THE DESIGN SPEED FOR VALENCIA ROAD, WADE ROAD, AND CAMINO VERDE IS 50 MPH. THE DESIGN VEHICLE IS A WB-50. THE POSTED SPEED LIMIT IS 45 MPH.
4. ALL LANE DIMENSIONS ARE FROM CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS, AND MARKERS.
6. THE FINAL LONGITUDINAL STRIPING SHALL BE 60 MIL (0.060") THICK HOT-SPRAYED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE TEMPORARY STRIPING WITHIN 14 TO 30 CALENDAR DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE OR AS DIRECTED BY THE TRAFFIC ENGINEER. ALL OTHER MARKINGS SHALL BE APPLIED AT THE SAME TIME. THE TEMPORARY STRIPING SHALL BE PAINT.
7. ALL FINAL TRANSVERSE MARKINGS SHALL BE HOT SPRAYED 90 MIL THERMOPLASTIC STRIPING (0.090"). ALL PAVEMENT ARROWS AND LEGENDS SHALL BE HOT SPRAYED 90 MIL THERMOPLASTIC PAVEMENT MARKING (0.090"). EXTRUDED THERMOPLASTIC OR PREFORMED APPLICATIONS MAY BE USED IF APPROVED BY THE TRAFFIC ENGINEER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET TO NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. IN TANGENT SECTIONS OF A ROAD WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE, CONTROL POINTS CAN BE SET AT 200 FEET APART. THE LAYOUT AND INSPECTION OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY THE TRAFFIC ENGINEER PRIOR TO THE APPLICATION OF MATERIALS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
10. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE TRAFFIC ENGINEER BY SWEEPING AND AIR-JET BLOWING IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE TEMPERATURE SHALL NOT BE LESS THAN 50 DEGREES F. FOR THE PLACEMENT OF HOT SPRAY THERMOPLASTIC STRIPING, AND 40 DEGREES F. FOR THE PLACEMENT OF RPMs.
11. ALL RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED SO THAT THE CLEAR REFLECTIVE FACE OF EACH MARKER IS FACING THE APPROACHING TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
12. THE ENGINEER OF RECORD SHALL BE REQUIRED TO PRODUCE AS-BUILT STRIPING PLANS, USING INFORMATION PROVIDED BY THE CONTRACTOR, WITHIN 90 DAYS OF STRIPING COMPLETION.
13. BLUE RAISED PAVEMENT MARKERS SHALL BE PLACED ADJACENT TO FIRE HYDRANTS AS SHOWN ON SHEET 7-1 OF THE PC/COT PAVEMENT MARKING DESIGN MANUAL.
14. FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS SHALL BE INSTALLED BY THE CONTRACTOR.
15. FINAL INSPECTION/ACCEPTANCE OF PAVEMENT MARKINGS SHALL BE PERFORMED BY THE TRAFFIC ENGINEER.

PAVEMENT MARKING CODES





NOTE:

REFER TO PIMA COUNTY DEPARTMENT OF TRANSPORTATION AND AND CITY OF TUCSON DEPARTMENT PAVEMENT MARKING DESIGN MANUAL, AUGUST 2008 FOR MORE DETAIL.

No.	Revision Description	Engineer	Date
-			
-			
-			
-			
-			

		Date
Designed	SDR	09/2011
Drawn	KMW	09/2011
Checked	RPS	09/2011
Proj. Engr.		09/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II SUBMITTAL AUGUST 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

Kimley-Horn and Associates, Inc. ©
2210 E. Fort Lowell Road
Suite 200
Tucson, AZ 85719
(520) 615-9191 Fax (520) 615-9292

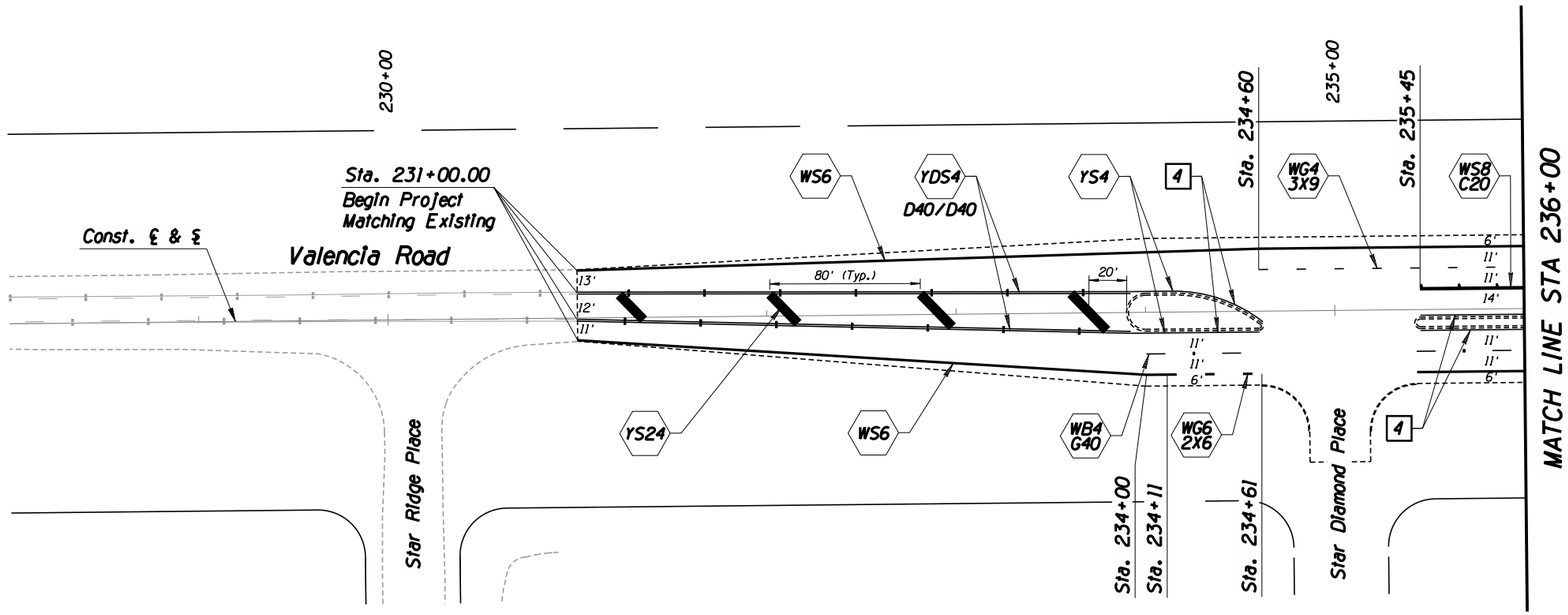
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

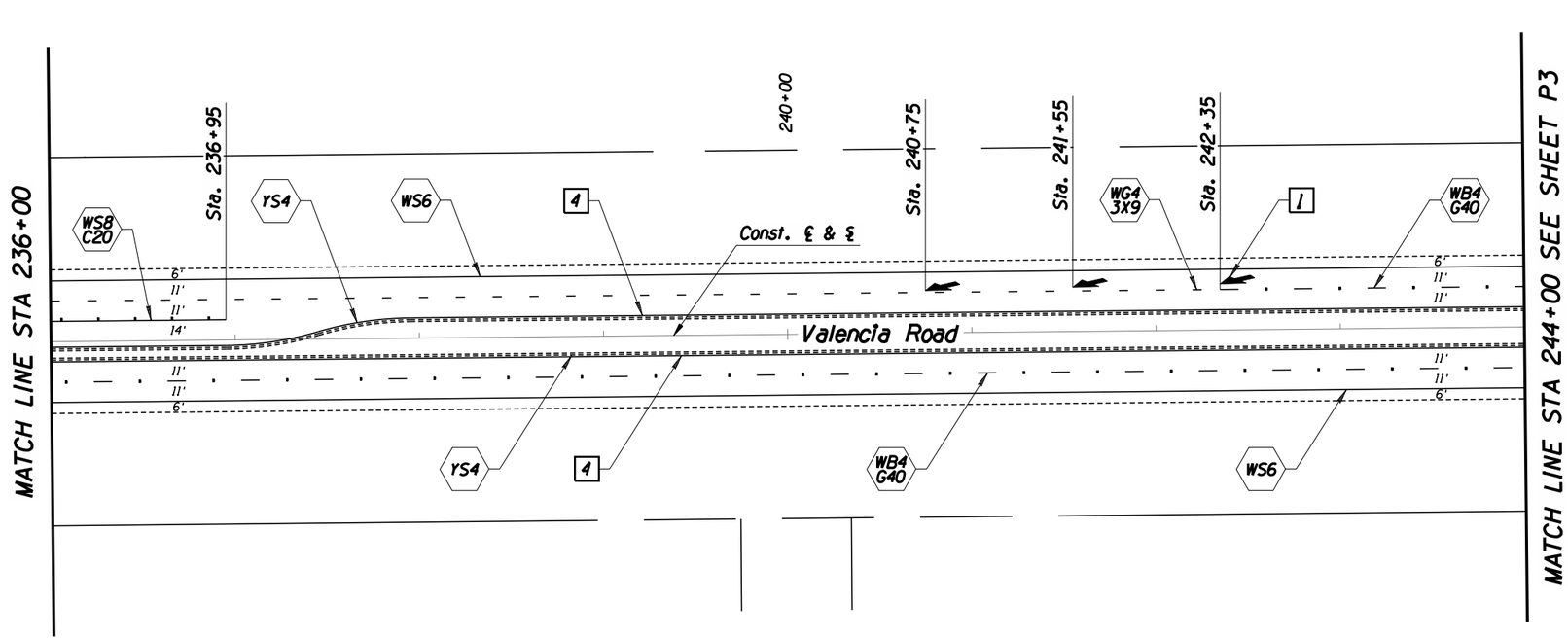
Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet P1 of P12	Page of

TRACS No. SS975 01C

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A	—	—	—

0000 PM PPM





NOTES:

1. Install new merge arrows per Sheet No. 4-15 of the PC/COT Pavement Marking Design Manual.
4. Install YS4 at 1-ft from edge of pavement.

PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet P2 of P12	Page of

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	SDB	09/2011
Drawn	KMW	09/2011
Checked	RPS	09/2011
Proj. Engr.		

No.	Revision Description	Engineer	Date
-			
-			
-			
-			
-			

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Kimley-Horn and Associates, Inc.
2210 E. Fort Lowell Road
Suite 200
Tucson, AZ 85719
(520) 615-9191 Fax (520) 615-9292

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
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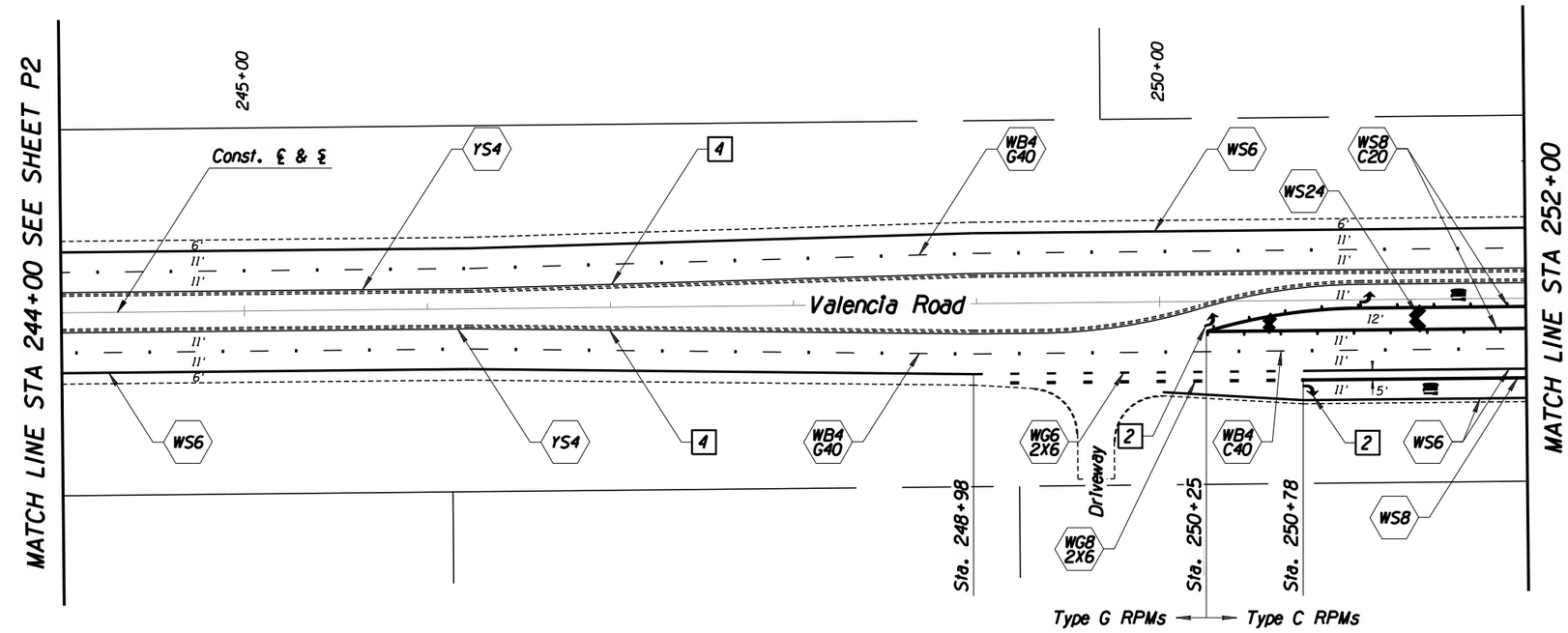

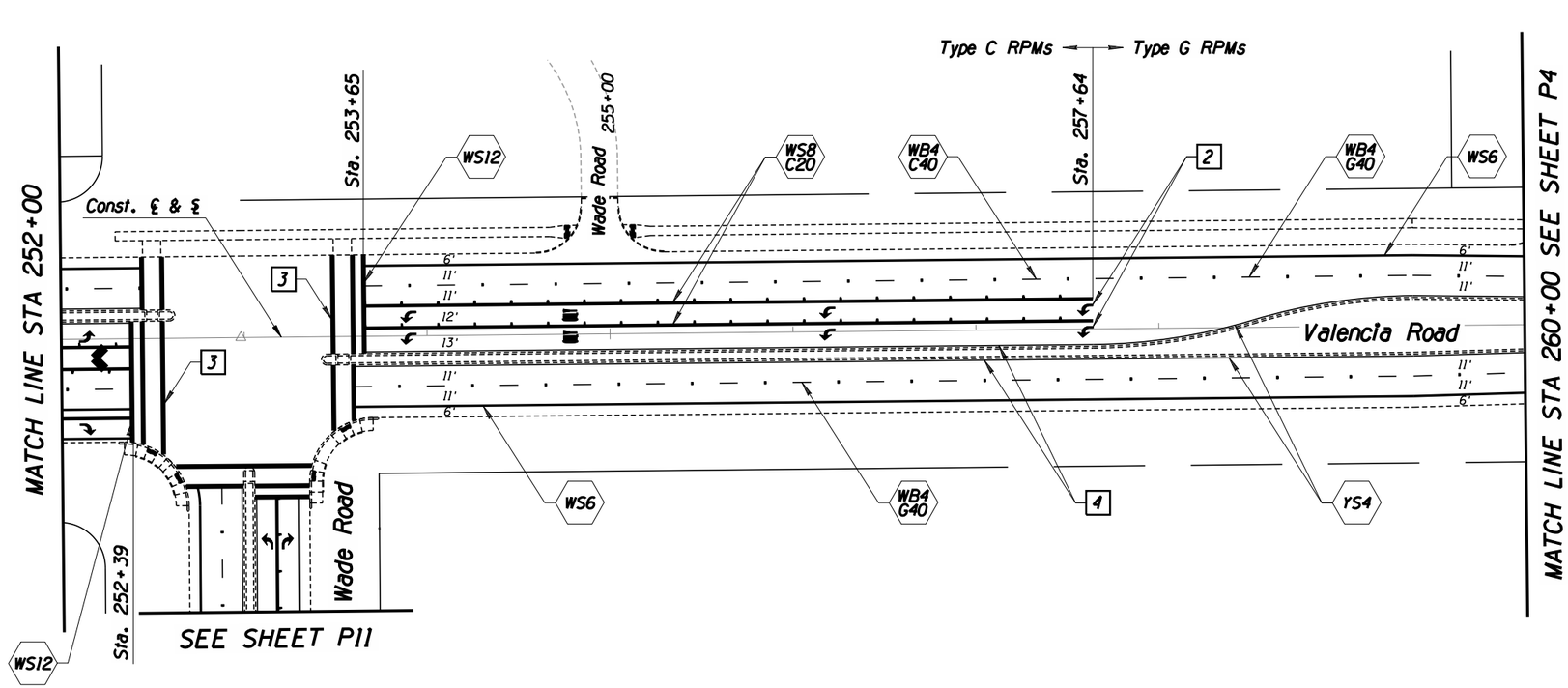

NOTES:

2 Install new pavement arrows and legends per Sheet No.'s 2-9, 2-10, and 4-12 of the PC/COT Pavement Marking Design Manual.

3 Install new standard 10' wide crosswalk per Sheet No.'s 2-8 and 5-12 of the PC/COT Pavement Marking Design Manual.

4 Install YS4 at 1-ft from edge of pavement.

PAVEMENT MARKING

40 0 40 80

Scales Horiz. 1"=40' Vert. 1"=NA

Sheet P3 of P12

Page of

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

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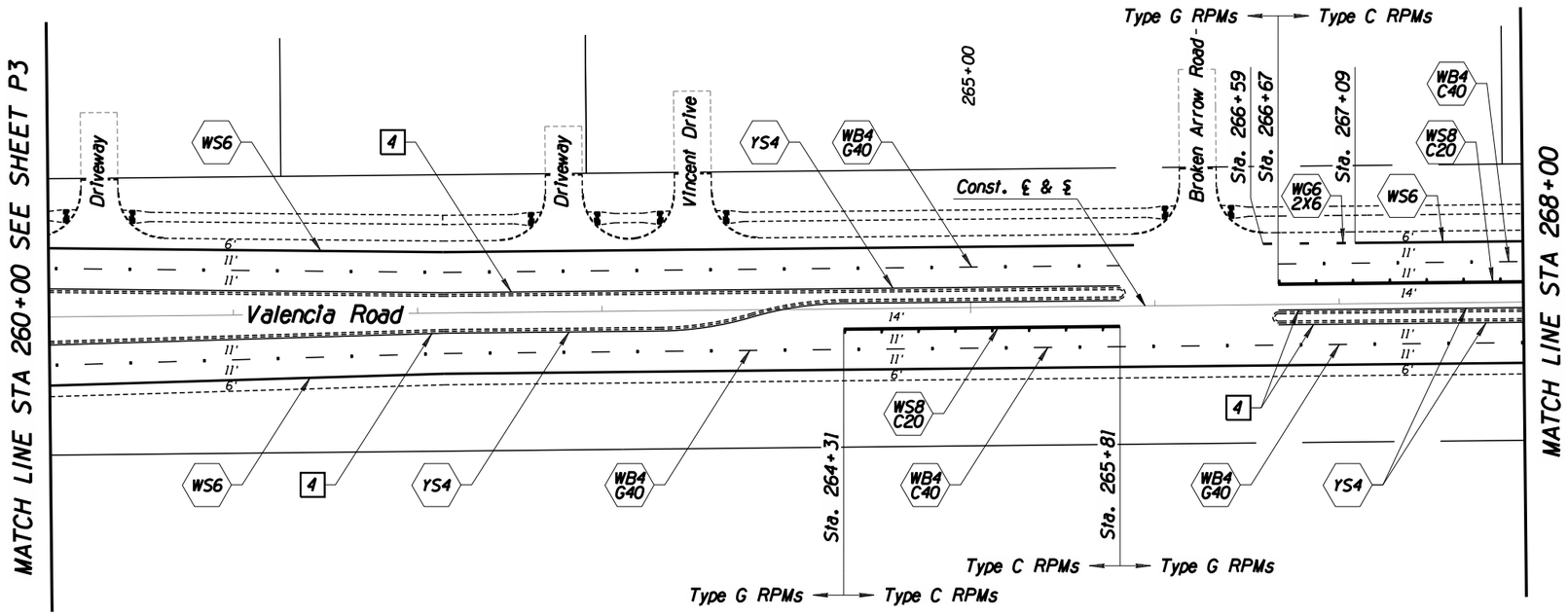
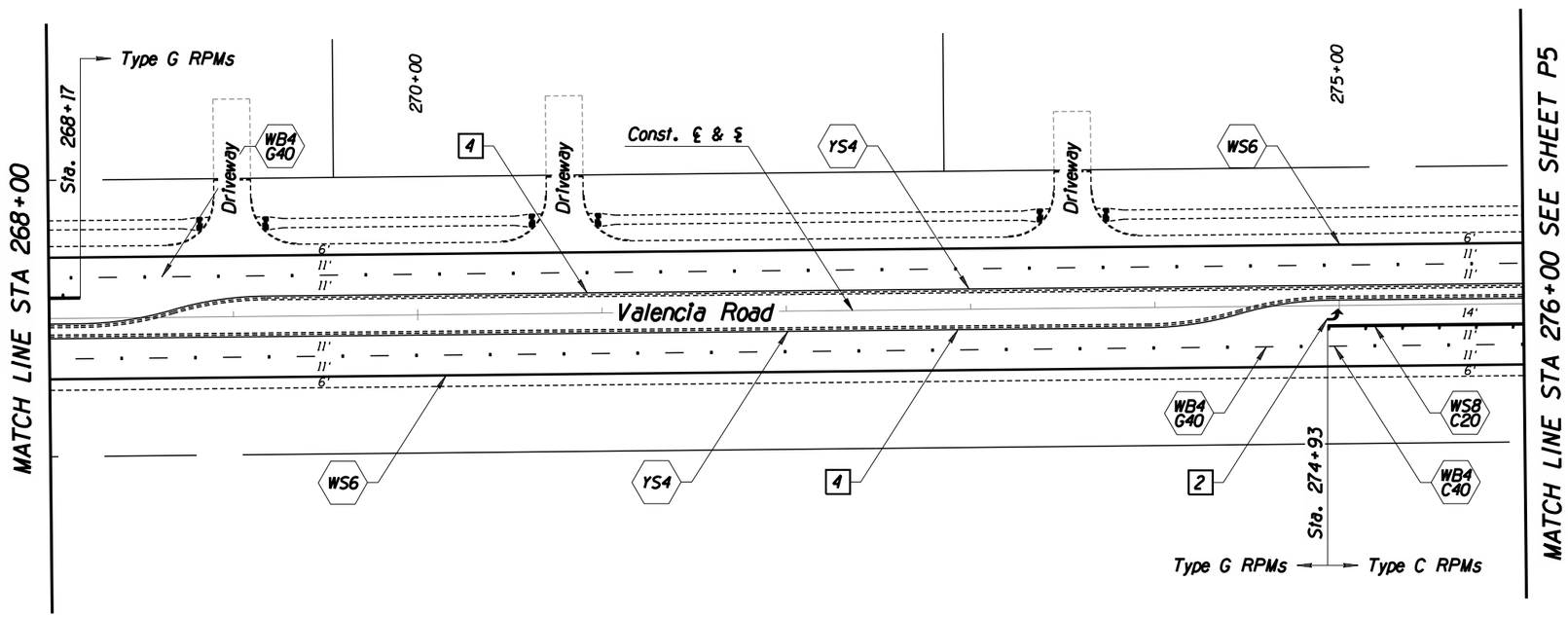
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

TRACS No. SS975 01C





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTES:

2 Install new pavement arrows and legends per Sheet No.'s 2-9, 2-10, and 4-12 of the PC/COT Pavement Marking Design Manual.

4 Install YS4 at 1-ft from edge of pavement.

PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet P4 of P12	Page of

Pima County Department of Transportation

Priscilla S. Cornello, P.E., Director

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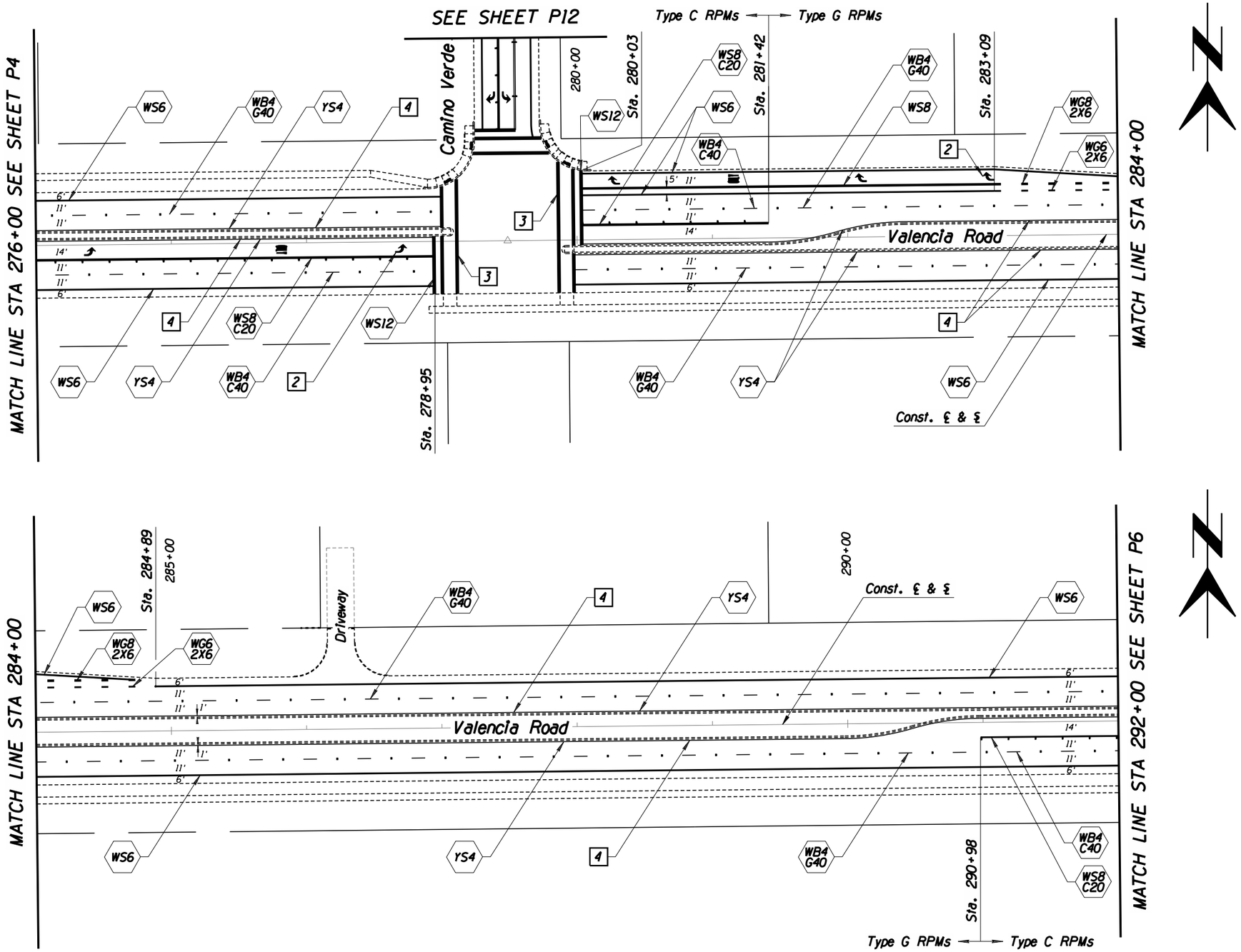

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTES:

2 Install new pavement arrows and legends per Sheet No.'s 2-9, 2-10, and 4-12 of the PC/COT Pavement Marking Design Manual.

3 Install new standard 10' wide crosswalk per Sheet No.'s 2-8 and 5-12 of the PC/COT Pavement Marking Design Manual.

4 Install YS4 at 1-ft from edge of pavement.

PAVEMENT MARKING

40 0 40 80

Scales Horiz. 1"=40' Vert. 1"=NA

Sheet P5 of P12

Page of

Priscilla S. Cornelio, P.E., Director

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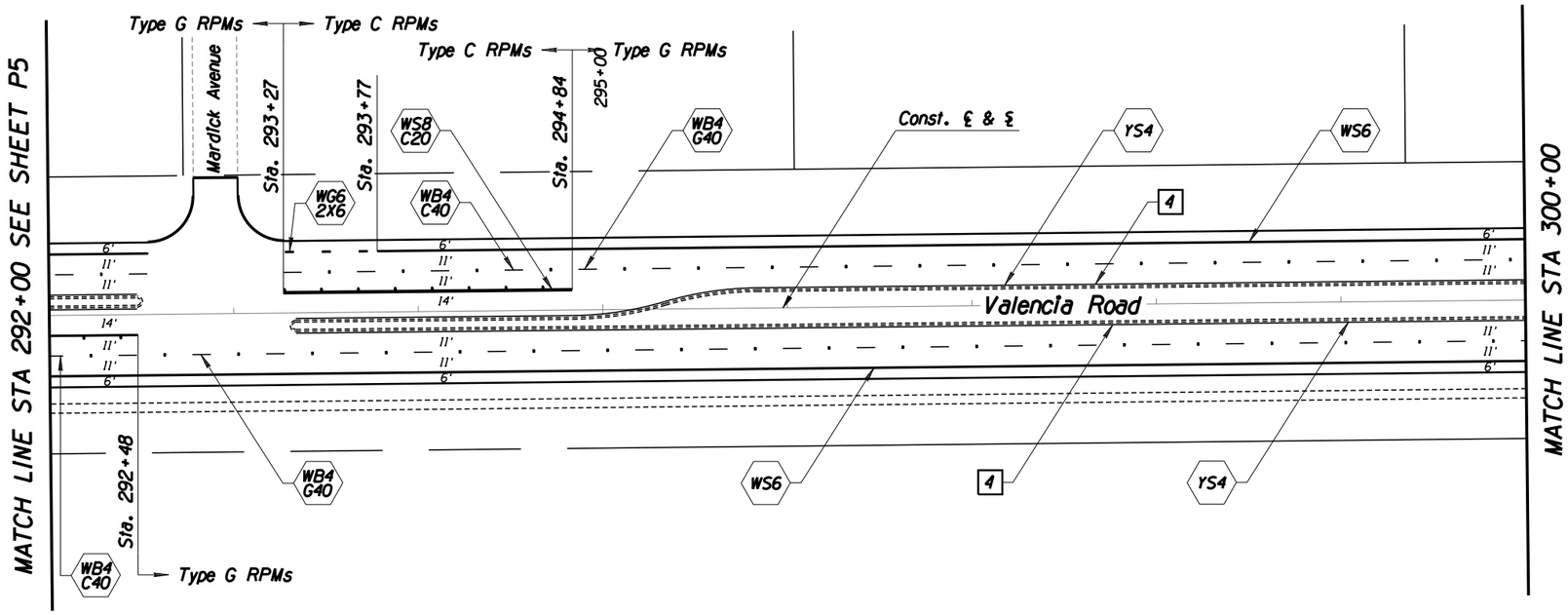

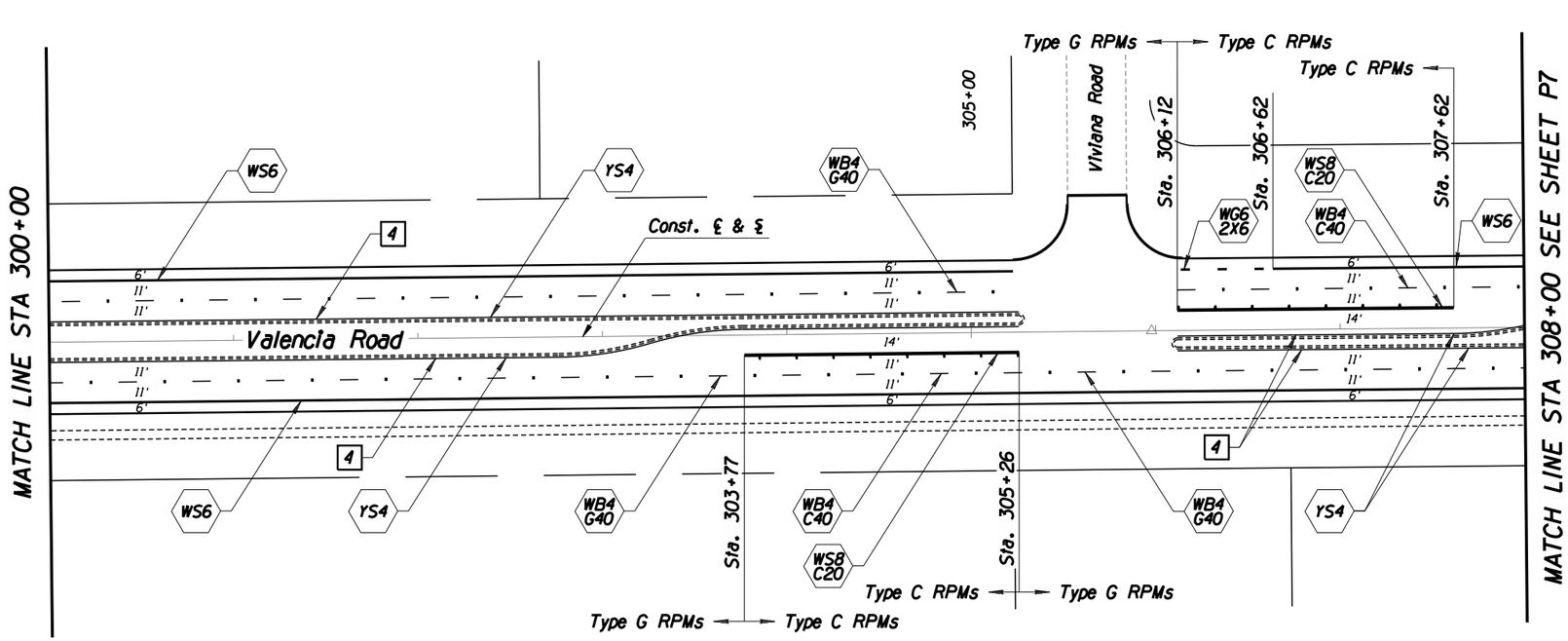

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTES:

4 Install YS4 at 1-ft from edge of pavement.

PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet P6 of P12	Page of

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornello, P.E., Director

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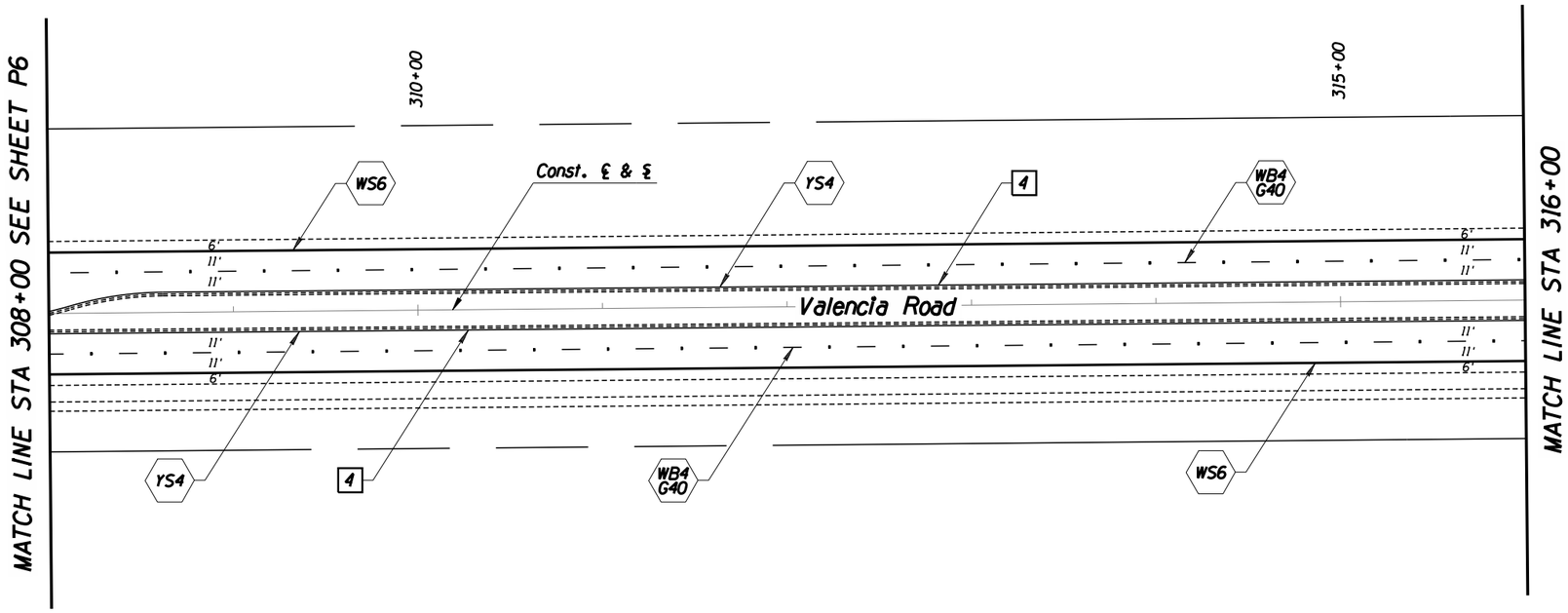

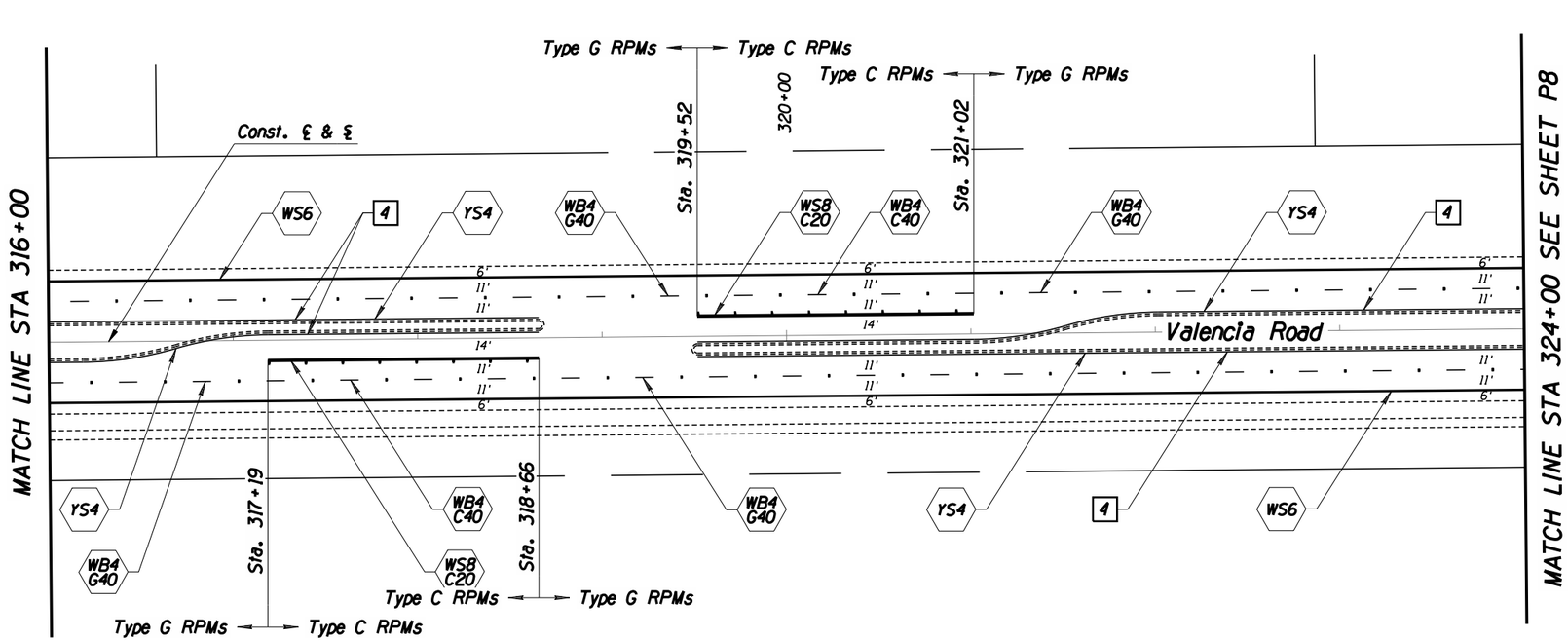

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTES:

4 Install YS4 at 1-ft from edge of pavement.

PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet P7 of P12	Page of

Pima County Department of Transportation

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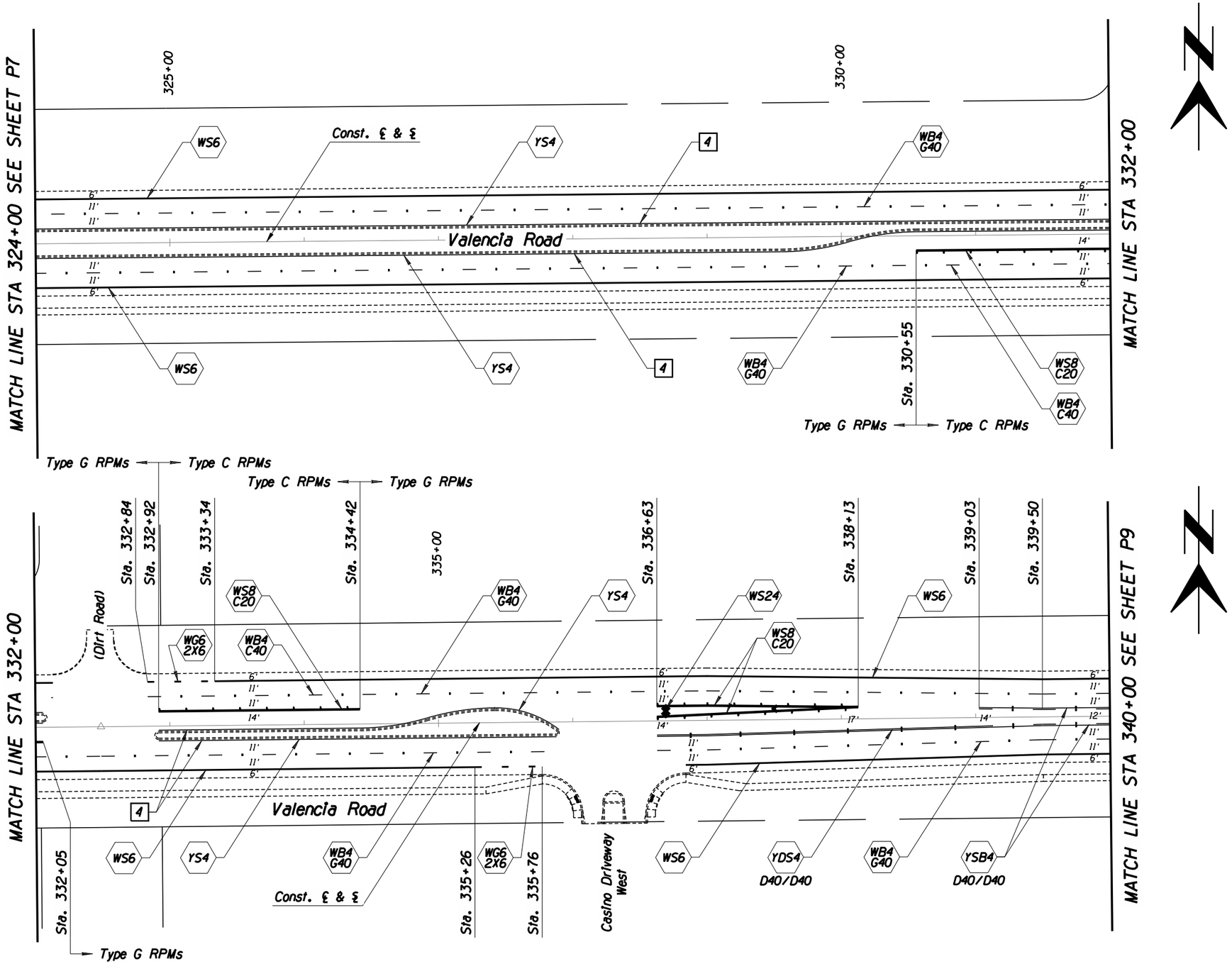
PROJECT NO. 4RTVMW

TRACS No. SS975 01C

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTES:

4 Install YS4 at 1-ft from edge of pavement.



PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet P8 of P12	Page of

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

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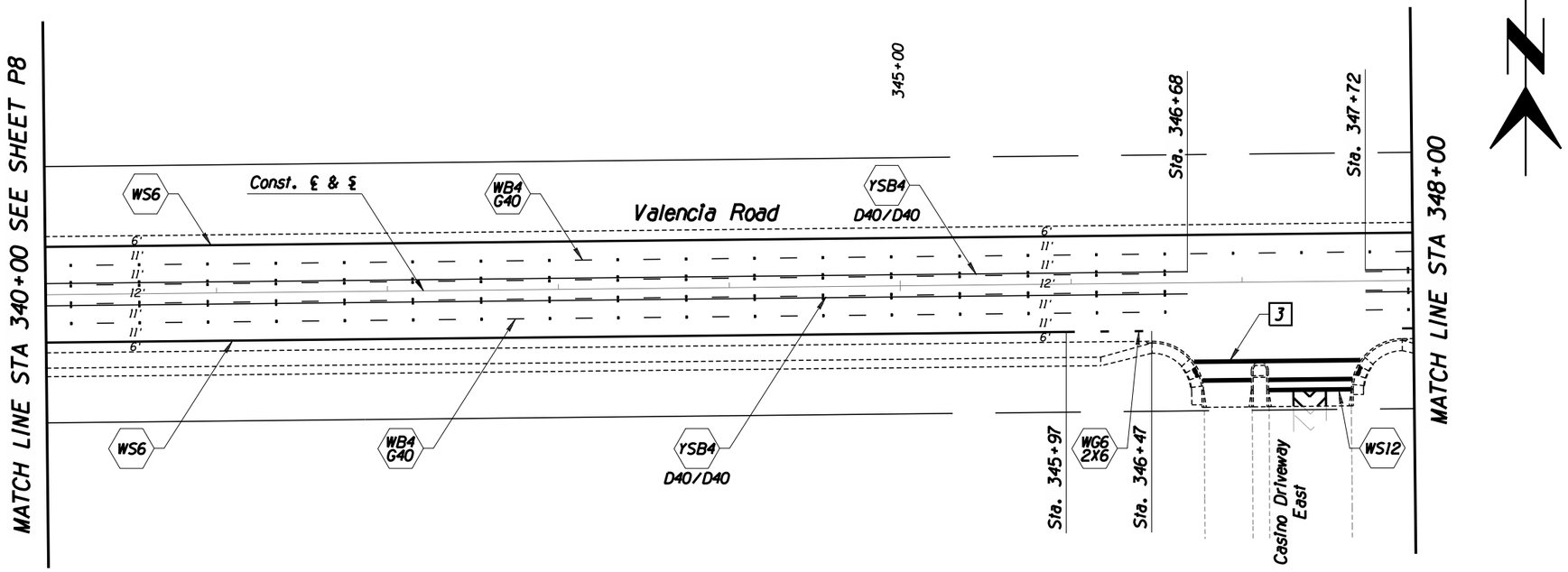
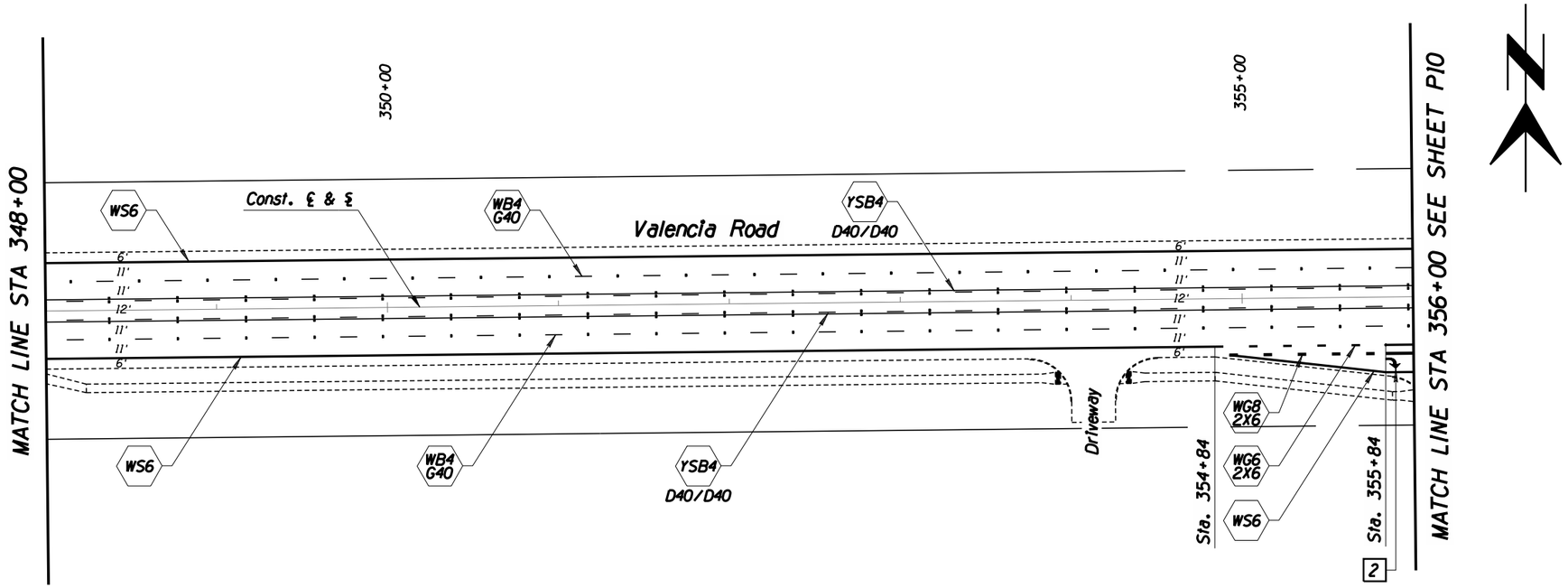
PROJECT NO. 4RTVMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			





NOTES:

2 Install new pavement arrows and legends per Sheet No.'s 2-9, 2-10, and 4-12 of the PC/COT Pavement Marking Design Manual.

3 Install new standard 10' wide crosswalk per Sheet No.'s 2-8 and 5-12 of the PC/COT Pavement Marking Design Manual.

PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet P9 of P12	Page of

Pima County Department of Transportation

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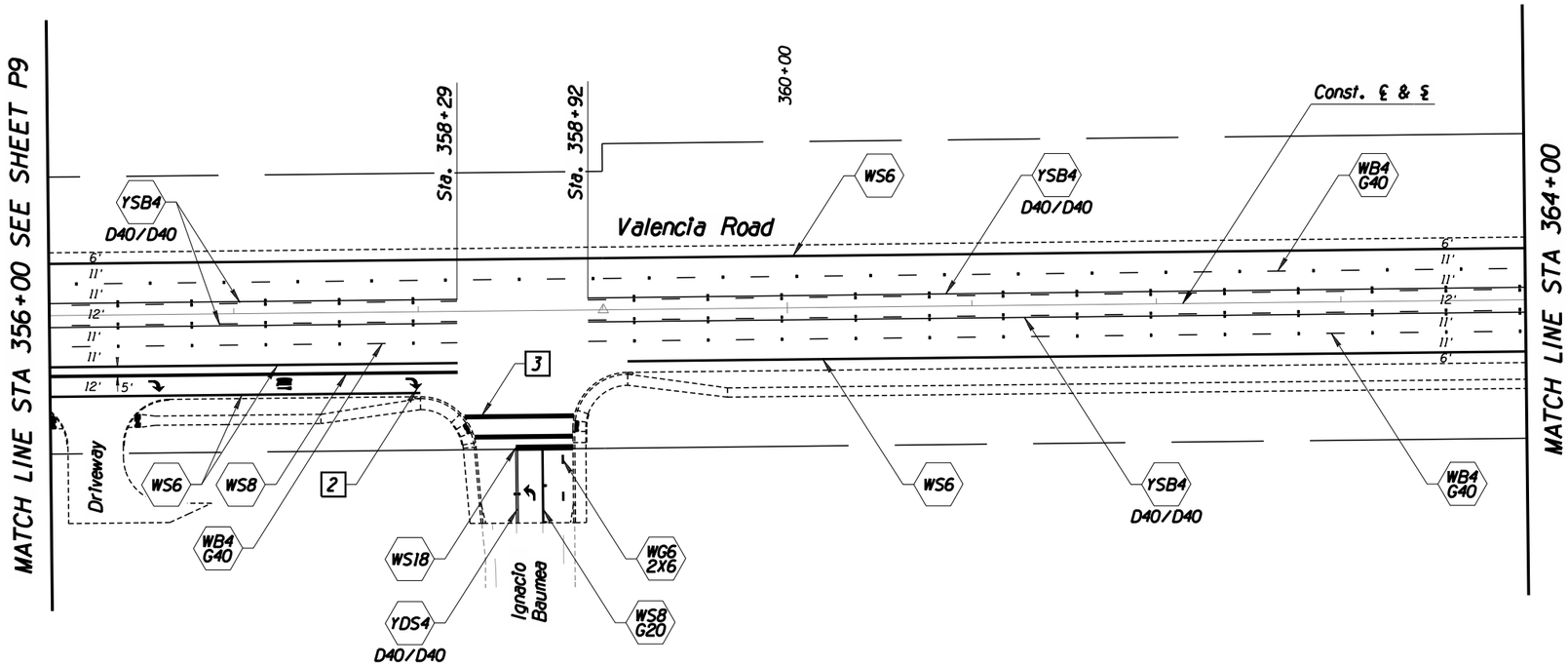

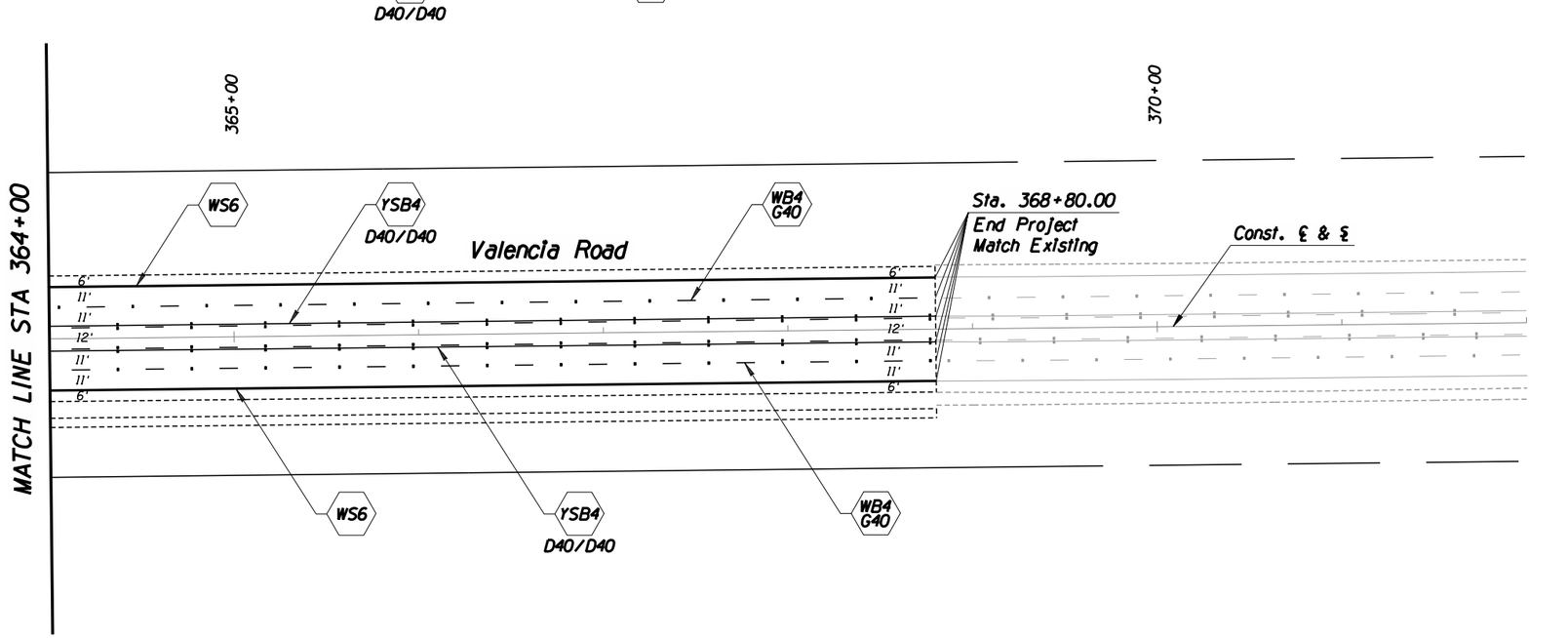

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTES:

2 Install new pavement arrows and legends per Sheet No.'s 2-9, 2-10, and 4-12 of the PC/COT Pavement Marking Design Manual.

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PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet P10 of P12	Page of

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

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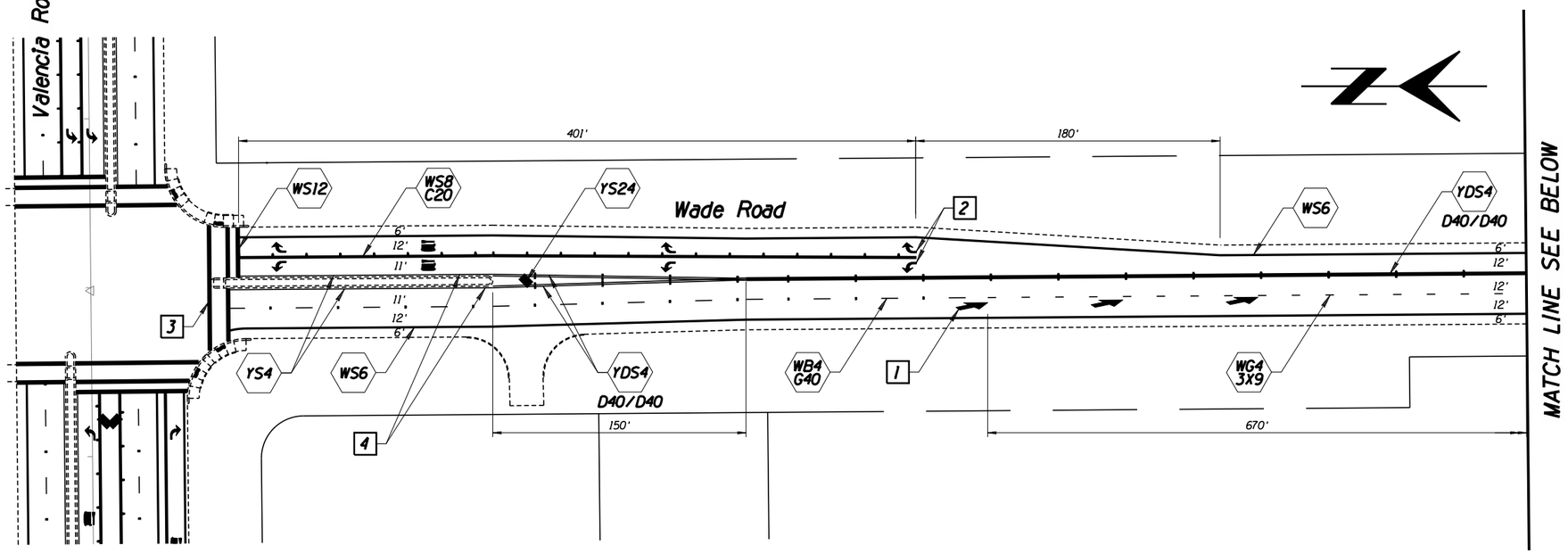

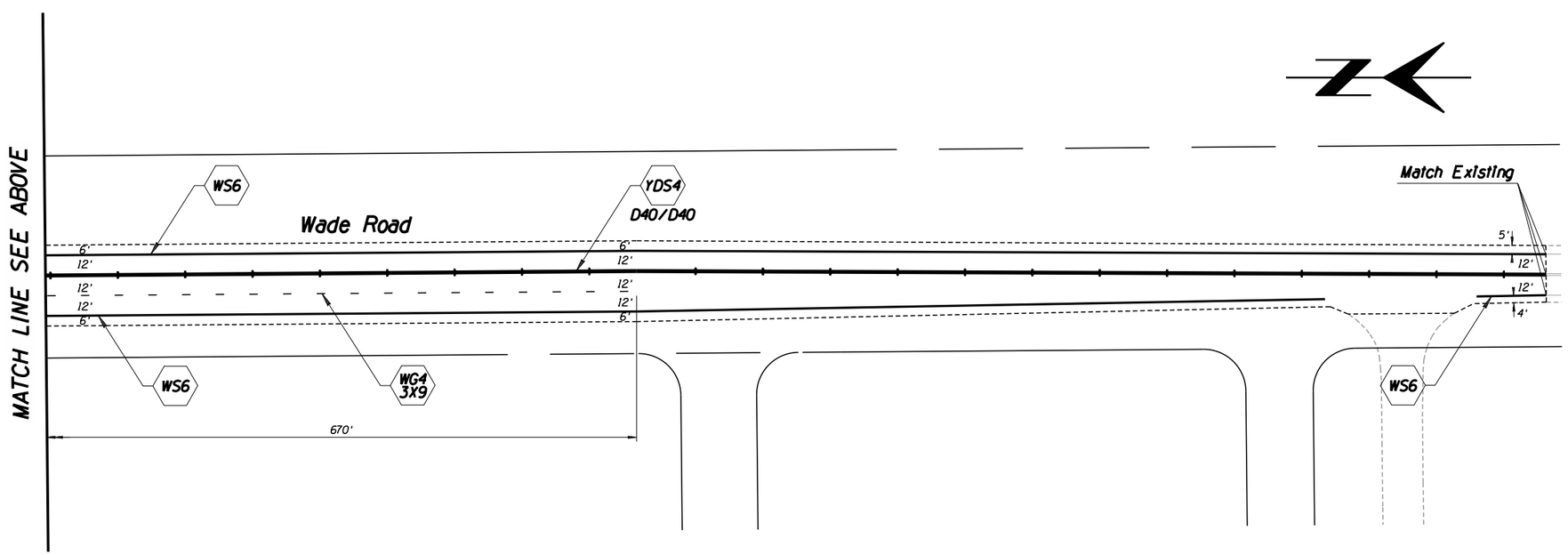

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

NOTES:

1. Install new merge arrows per Sheet No. 4-15 of the PC/COT Pavement Marking Design Manual.
2. Install new pavement arrows and legends per Sheet No.'s 2-9, 2-10, and 4-12 of the PC/COT Pavement Marking Design Manual.
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PAVEMENT MARKING

40 0 40 80

Scales	Horiz. 1" = 40'	Sheet P11 of P12	Page of
	Vert. 1" = NA		

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

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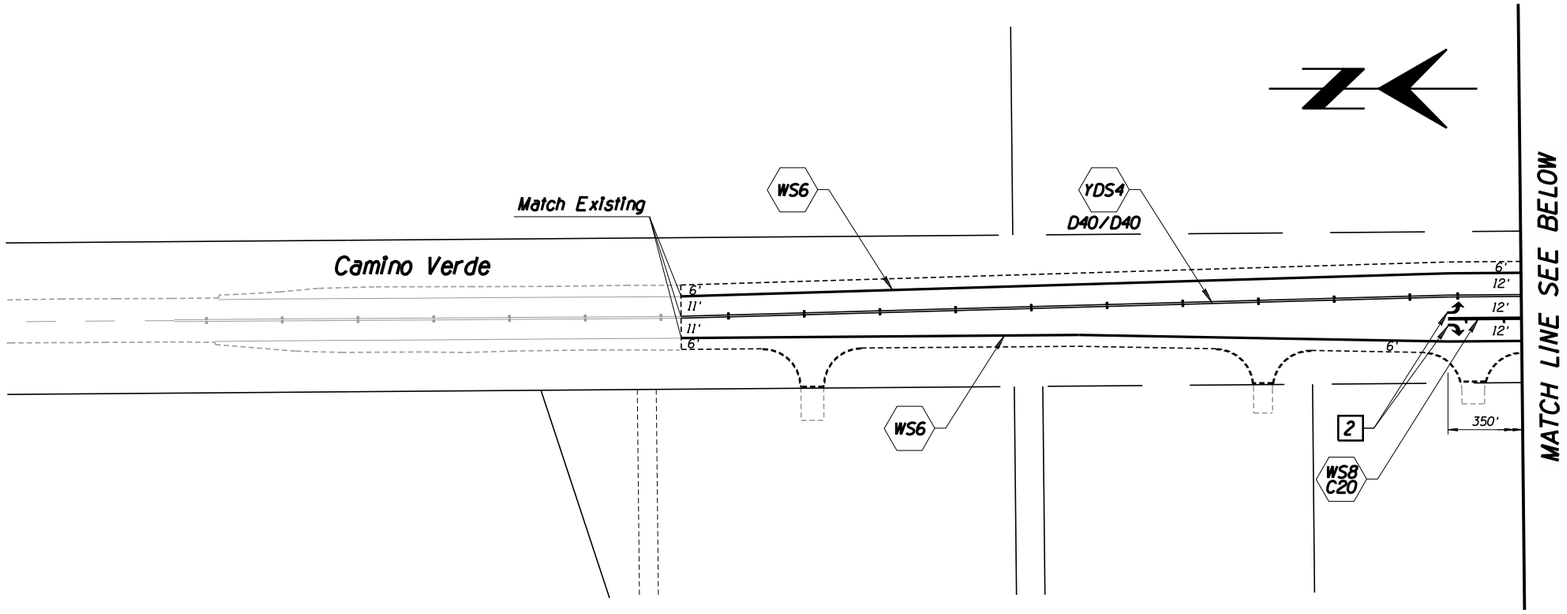
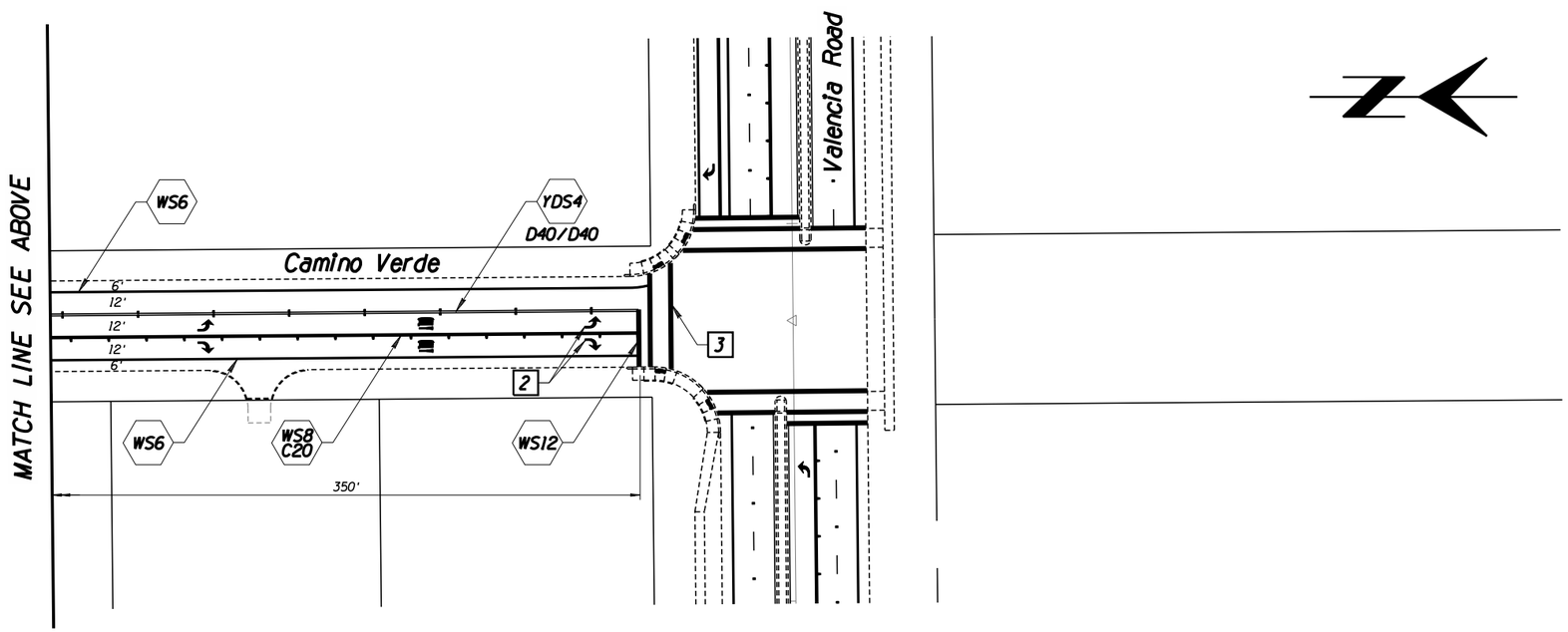
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			





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PAVEMENT MARKING

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Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet P12 of P12	Page of

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9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

PLANT MATERIAL SCHEDULE

Trees

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE	QUANTITY
#	Acacia constricta Whitethorn acacia	24" BOX	22
		36" BOX	3
		48" BOX	0
#	Acacia greggii Catclaw acacia	24" BOX	2
		48" BOX	2
#	Chilopsis linearis Desert Willow	15 GAL	3
#	Olneya tesota Ironwood	24" BOX	1
#.	Parkinsonia floridum Blue Palo Verde	15 GAL	15
		24" BOX	7
		36" BOX	4
		48" BOX	7
#	Parkinsonia microphyllum Foothills Palo Verde	15 GAL	14
		24" BOX	3
#	Prosopis velutina Velvet Mesquite	15 GAL	196
		24" BOX	136
		36" BOX	108
		48" BOX	189

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.

Shrubs, Cacti and Accents

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE	QUANTITY
⊙	Carnegia gigantea Saguaro	2-4 ln.ft.	3
		4-6 ln.ft.	2
		8 ln.ft.	1

Native Plant Inventory Mitigation Calculations

Valencia Road, Mark to Wade - Native Plant Mitigation Calculations

Calculations are in conformance with the PCDOT Memorandum of July 6, 2010 - Update to Step 1 of Appendix 4D of the Environmentally Sensitive Roadway Design Guidelines, Roadway Design Manual

Total Area of Disturbance	**61.67**	**Acres**	**ESR Ratio =**	**0.20**
Total Plantable Area (trees)	**12.3**	**Acres**		

Table 3: Distribution of Tree Diameters in Original Inventory

10-Aug-11

Species	Size (Cal. Inches)	Number of Species Inventoried	Replacement Container Size	Total Inventoried Caliper Inches		Caliper Multiplier		ESR Ratio		Required Cal Inches		Cal.Inches/ Container		Replacement Trees per Container Size	Percentage as Total Number of Trees	Total # Required Caliper Inches
Acacia constricta	8"	36	24" box	223	x	1.25	x	0.20	=	55.6	/	2.5	=	22	85.71%	241.7
	9-12"	5	36" Box	46	x	1.25	x	0.20	=	11.5	/	4	=	3	11.90%	33.6
	More than 12"	1	48" Box	13	x	1.25	x	0.20	=	3.2	/	6	=	0	2.38%	6.7
	Total #	42		282											100.00%	282.0
Acacia greggii	8"	3	24" box	16	x	1.25	x	0.20	=	4.0	/	2.5	=	2	50.00%	33.0
	9-12"	0	36" Box	0	x	1.25	x	0.20	=	0.0	/	4	=	0	0.00%	0.0
	More than 12"	3	48" Box	50	x	1.25	x	0.20	=	12.5	/	6	=	2	50.00%	33.0
	Total #	6		66											100.00%	66.0
Chilopsis linearis	Less than 6"	3	15 Gal.	11	x	1.25	x	0.20	=	2.7	/	1	=	3	100.00%	11.0
	6-8"	0	24" box	0	x	1.25	x	0.20	=	0.0	/	2.5	=	0	0.00%	0.0
	9-12"	0	36" Box	0	x	1.25	x	0.20	=	0.0	/	4	=	0	0.00%	0.0
	More than 12"	0	48" Box	0	x	1.25	x	0.20	=	0.0	/	6	=	0	0.00%	0.0
	Total #	3		11											100.00%	11.0
Parkinsonia floridum	Less than 6"	15	15 Gal.	59	x	1.25	x	0.20	=	14.7	/	1	=	15	36.59%	134.3
	6-8"	11	24" box	72	x	1.25	x	0.20	=	18.0	/	2.5	=	7	26.83%	98.5
	9-12"	8	36" Box	77	x	1.25	x	0.20	=	19.2	/	4	=	5	19.51%	71.6
	More than 12"	7	48" Box	159	x	1.25	x	0.20	=	39.6	/	6	=	7	17.07%	62.7
	Total #	41		367											100.00%	367.0
Parkinsonia microphyllum	Less than 6"	13	15 Gal.	56	x	1.25	x	0.20	=	14.0	/	1	=	14	72.22%	62.8
	6-8"	5	24" box	31	x	1.25	x	0.20	=	7.7	/	2.5	=	3	27.78%	24.2
	9-12"	0	36" Box	0	x	1.25	x	0.20	=	0.0	/	4	=	0	0.00%	0.0
	More than 12"	0	48" Box	0	x	1.25	x	0.20	=	0.0	/	6	=	0	0.00%	0.0
	Total #	18		87											100.00%	87.0
Prosopis velutina	Less than 6"	199	15 Gal.	786	x	1.25	x	0.20	=	196.0	/	1	=	196	24.66%	2081.2
	6-8"	195	24" box	1,367	x	1.25	x	0.20	=	340.8	/	2.5	=	136	24.16%	2039.4
	9-12"	165	36" Box	1,732	x	1.25	x	0.20	=	431.8	/	4	=	108	20.45%	1725.7
	More than 12"	248	48" Box	4,555	x	1.25	x	0.20	=	1135.6	/	6	=	189	30.73%	2593.7
	Total #	807		8,440											100.00%	8440.0
Olneya tesota	Less than 6"	0	15 Gal.	0	x	1.25	x	0.20	=	0.0	/	1	=	0	0.00%	0.0
	6-8"	1	24" box	7	x	1.25	x	0.20	=	1.7	/	2.5	=	1	100.00%	7.0
	9-12"	0	36" Box	0	x	1.25	x	0.20	=	0.0	/	4	=	0	0.00%	0.0
	More than 12"	0	48" Box	0	x	1.25	x	0.20	=	0.0	/	6	=	0	0.00%	0.0
	Total #	1		7											100.00%	7.0

Valencia Road, Mark to Wade - Saguaro Mitigation Calculations

Saguaros are to be replaced on a 1:1 basis in the sizes indicated.

Inventoried Saguaros by Height		Replacement Saguaros by Height	
0-2'	0	1'-2'	0
2+' - 4'	3	2'-4'	3
4+' - 6'	2	4'-6'	2
6+' - 8'	0	6'-8'	0
over 8'	1	8' max. ht.	1
TOTAL	6	TOTAL	6

Arizona Blue Stake
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Scales	Horiz. 1"=40'	L1.00 of L1.16	Page of
	Vert. 1"=NA		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

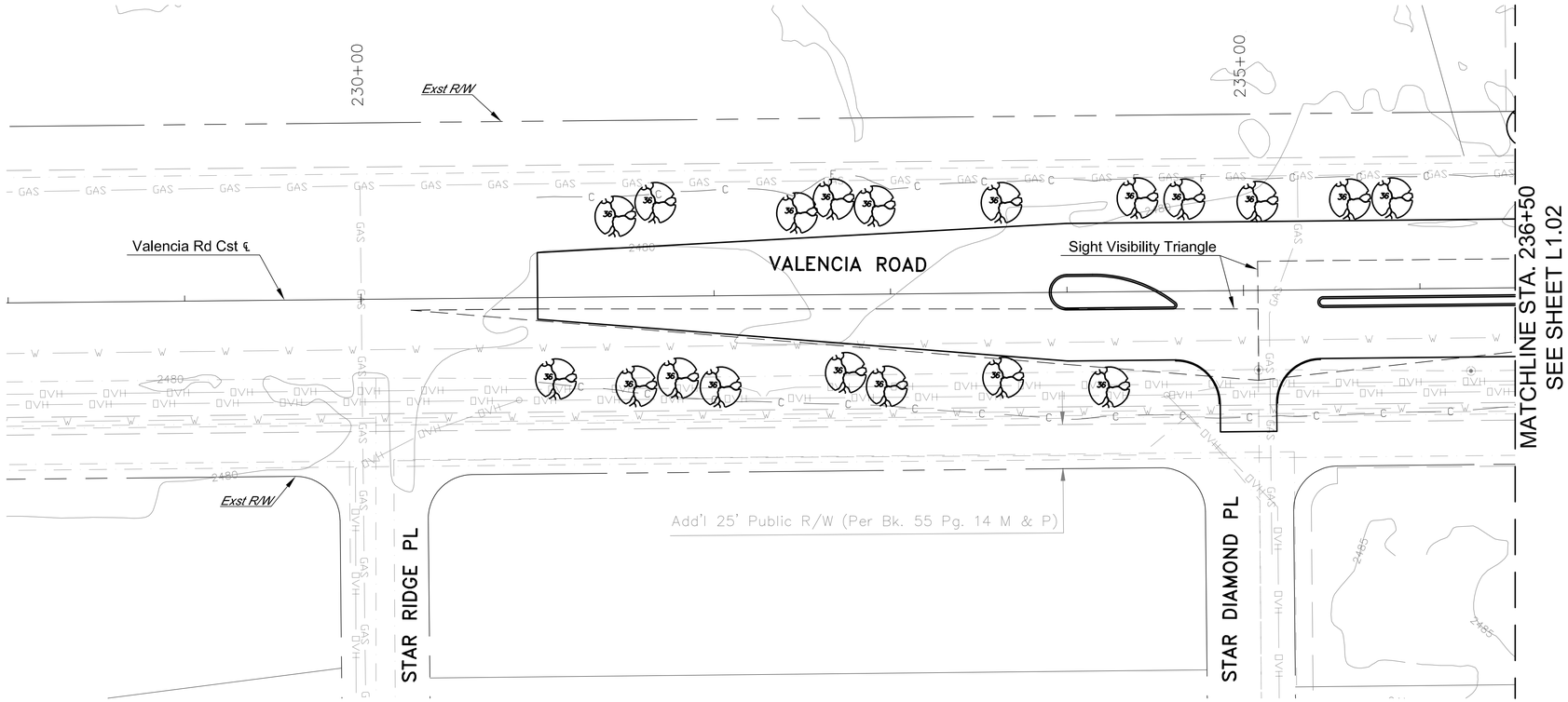
No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVAW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



NORTH

PLANT MATERIAL SCHEDULE

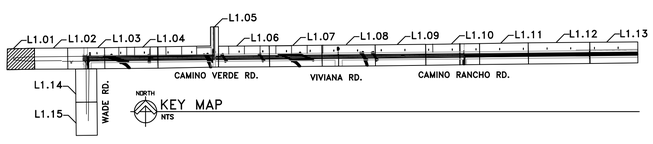
TREES

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Acacia constricta / Whitethorn acacia	24" BOX
		36" BOX
		48" BOX
	Acacia greggii / Catclaw acacia	24" BOX
		48" BOX
	Chilopsis linearis / Desert Willow	15 GAL
	Olneya tesota / Ironwood	24" BOX
	Parkinsonia floridum / Blue Palo Verde	15 GAL
		24" BOX
		36" BOX
		48" BOX
	Parkinsonia microphyllum / Foothills Palo Verde	15 GAL
		24" BOX
	Prosopis velutina / Velvet Mesquite	15 GAL
		24" BOX
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Carnegia gigantea / Saguaro	2-4 In.ft.
		4-6 In.ft.
		8 In.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



KEY MAP

Arizona Blue Stake
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Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ	08/2011
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Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
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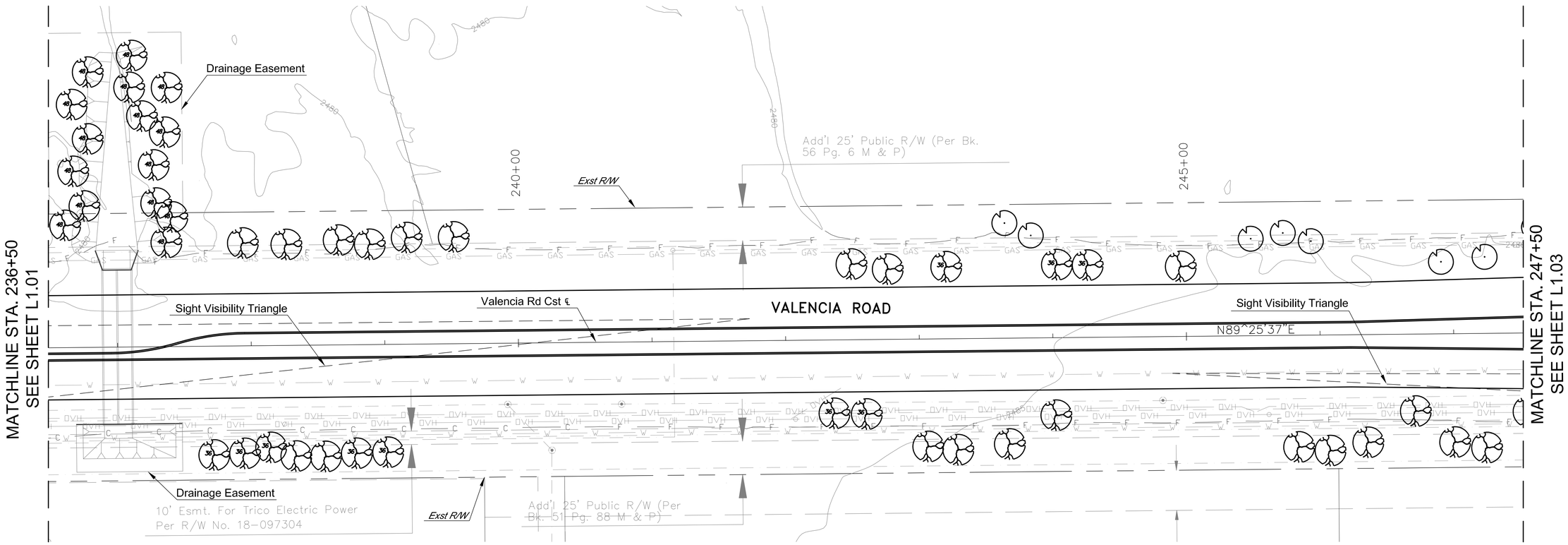
Pima County Celebrates Innovative Design

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

Scales	Horiz. 1"=40'	L1.01 of L1.16	Page of
	Vert. 1"=NA		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM



NORTH

PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Acacia constricta Whitethorn acacia	24" BOX
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SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 In.ft.
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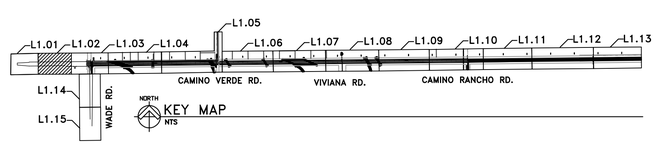
NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



Arizona Blue Stake
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Priscilla S. Cornelio, P.E., Director

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STAGE II
SUBMITTAL
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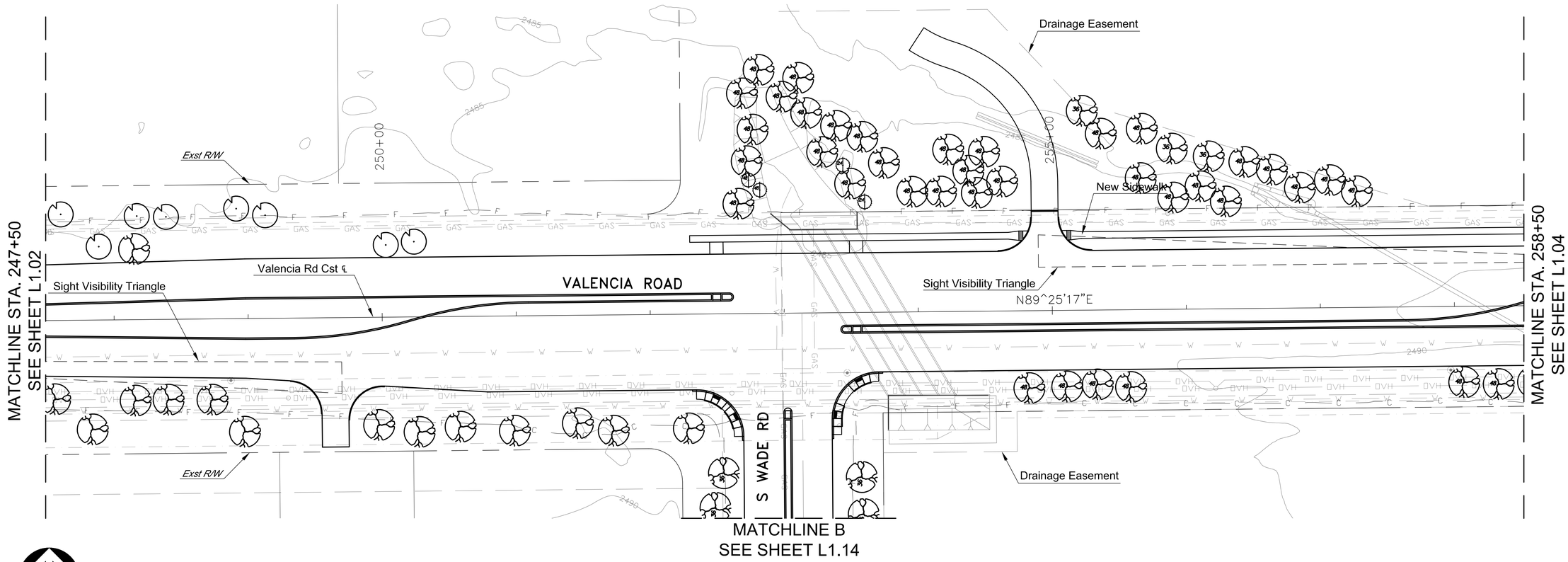
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40'	L1.02 of L1.16	Page of
	Vert. 1"=NA		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



NORTH

PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
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SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 ln.ft.
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		8 ln.ft.

NOTE:
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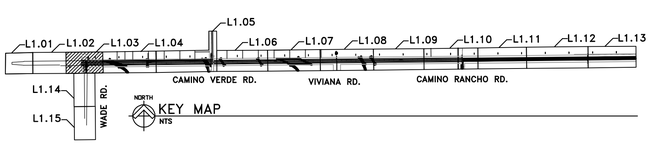

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Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
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Proj. LA	LR	08/2011

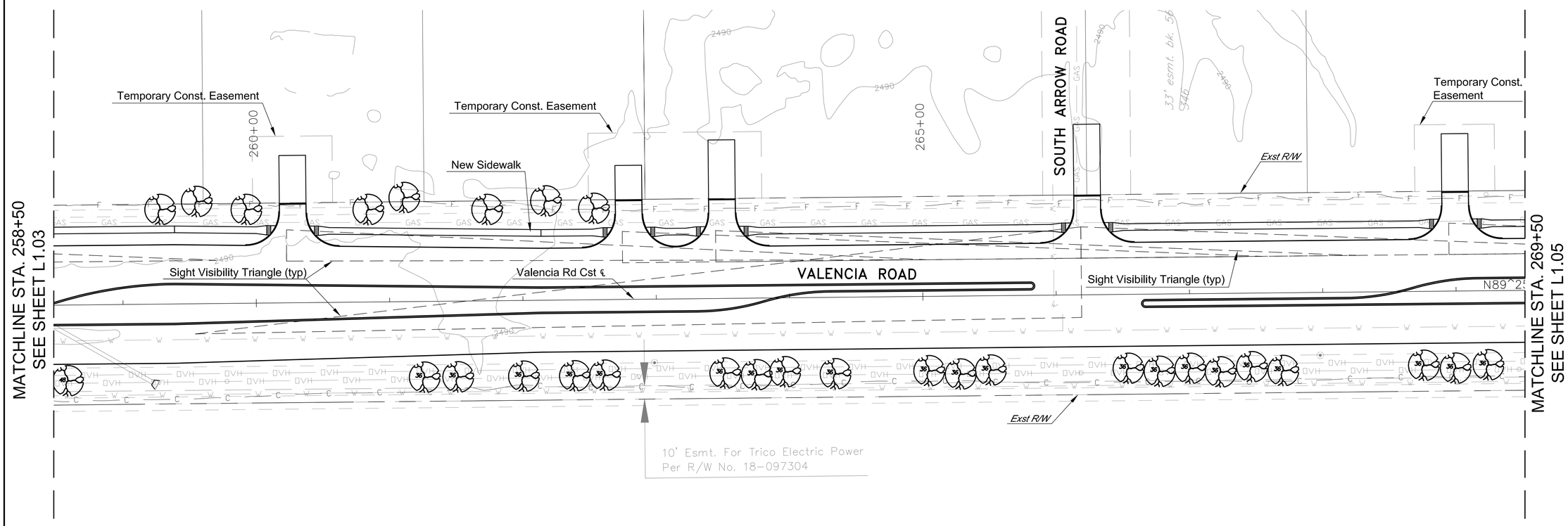
STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

Scales	Horiz. 1"=40'	L1.03 of L1.16	Page of
	Vert. 1"=NA		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



NORTH

PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
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SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
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Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.

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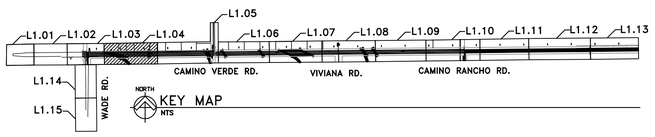

KEY MAP

Scales	Horiz. 1"=40' Vert. 1"=NA	L1.04 of L1.16	Page of

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

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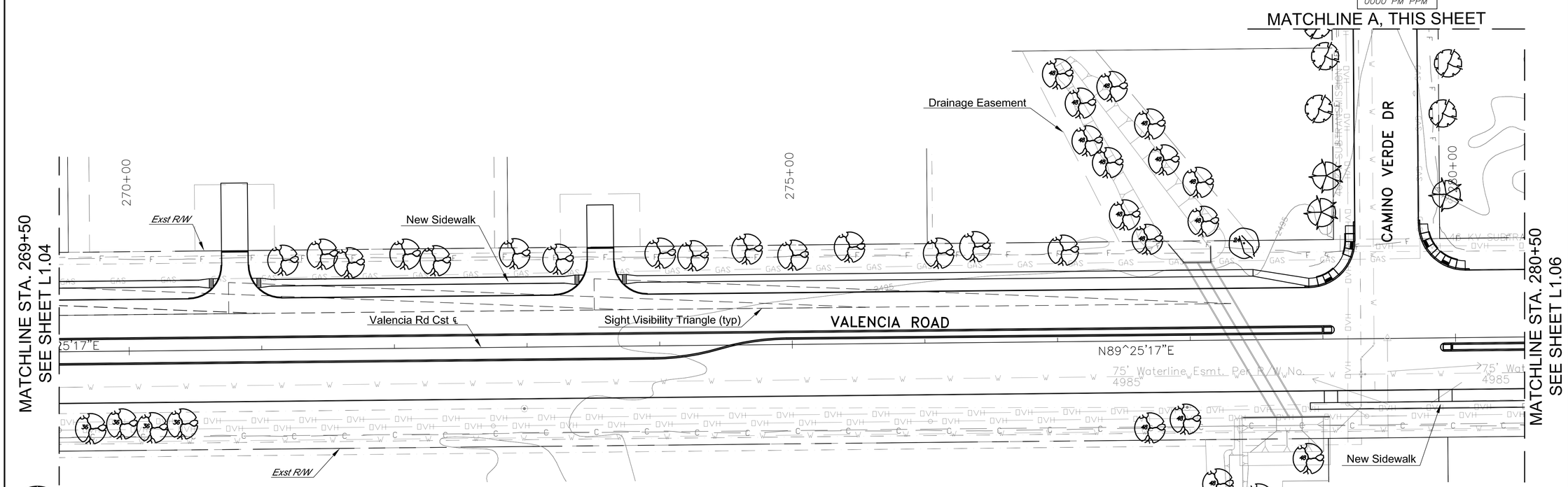
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM



PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Acacia constricta Whitethorn acacia	24" BOX
		36" BOX
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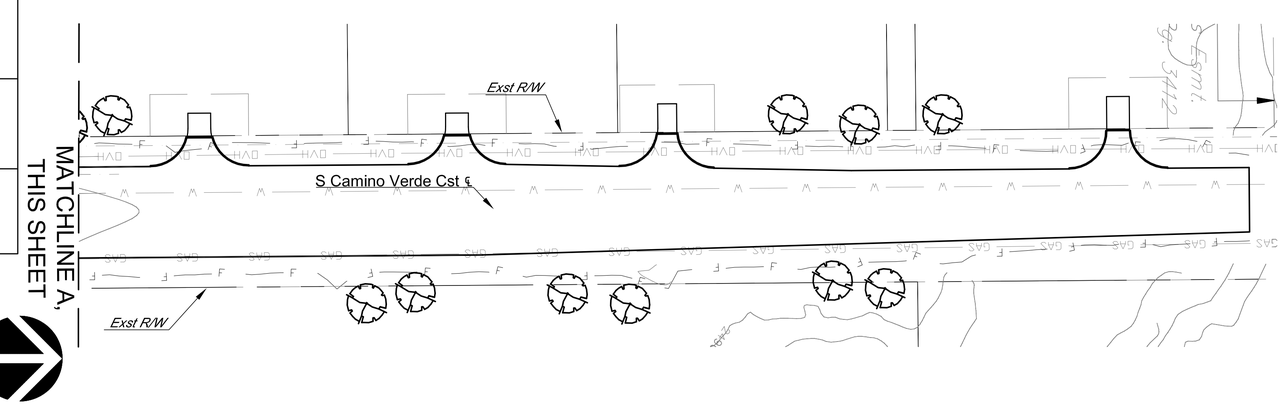
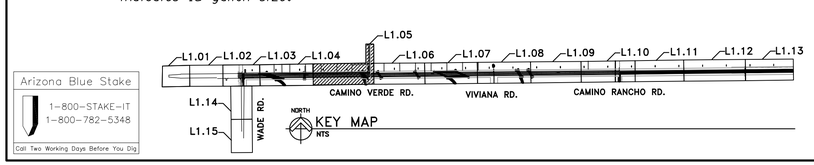
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 ln.ft.
		4-6 ln.ft.
		8 ln.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.





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Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

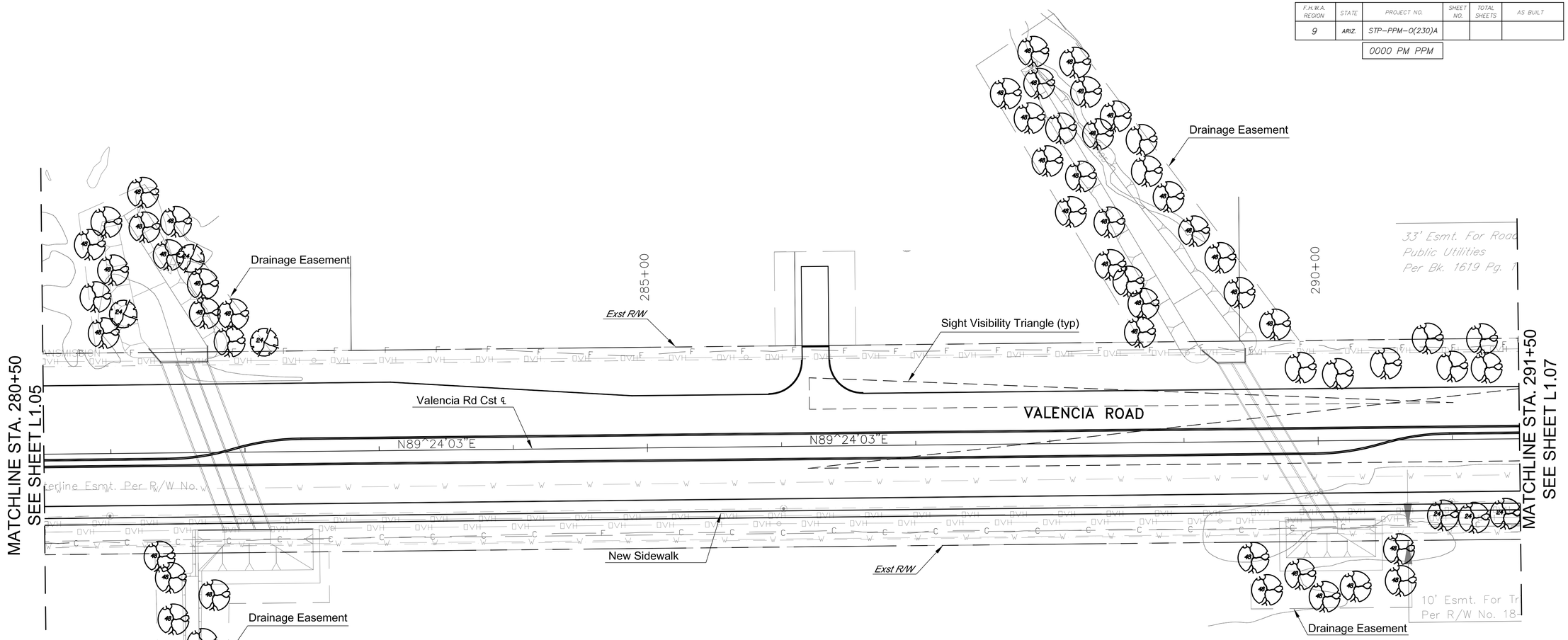
STAGE II SUBMITTAL AUGUST 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40'	L1.05 of L1.16	Page of
	Vert. 1"=NA		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Acacia constricta Whitethorn acacia	24" BOX
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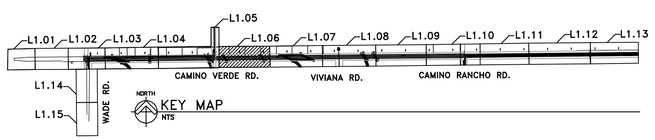
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 In.ft.
		4-6 In.ft.
		8 In.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



Arizona Blue Stake
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Scales	Horiz. 1"=40'	L1.06 of L1.16	Page of
	Vert. 1"=NA		

Pima County Department of Transportation

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No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
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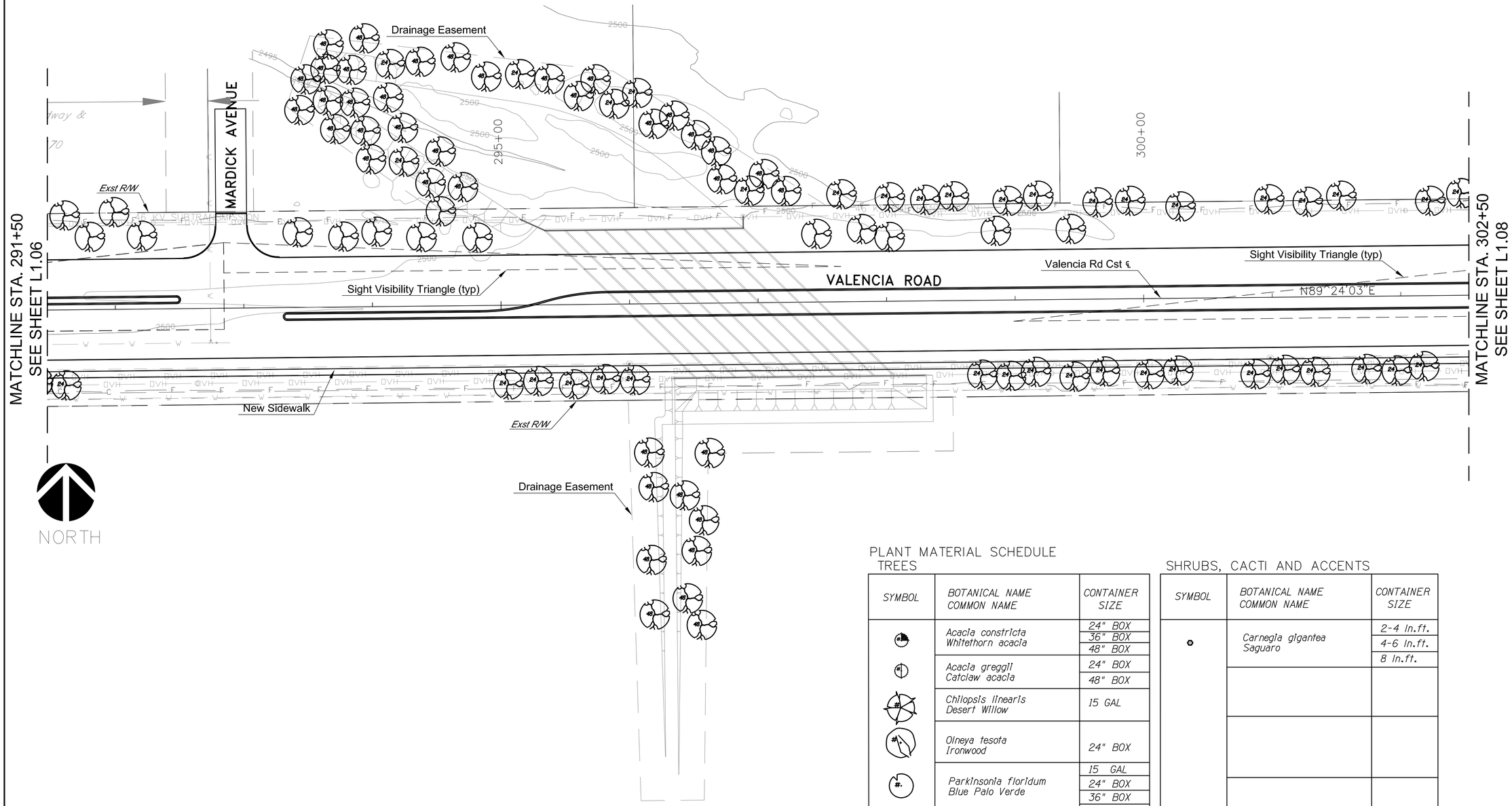
Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



PLANT MATERIAL SCHEDULE

TREES

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SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Carnegia gigantea / Saguaro	2-4 In.ft.
		4-6 In.ft.
		8 In.ft.

NOTE:
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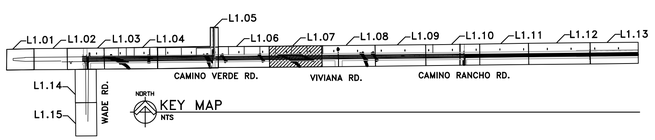

Arizona Blue Stake
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Scales	Horiz. 1"=40'	L1.07 of L1.16	Page of
	Vert. 1"=NA		

Pima County Department of Transportation

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Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
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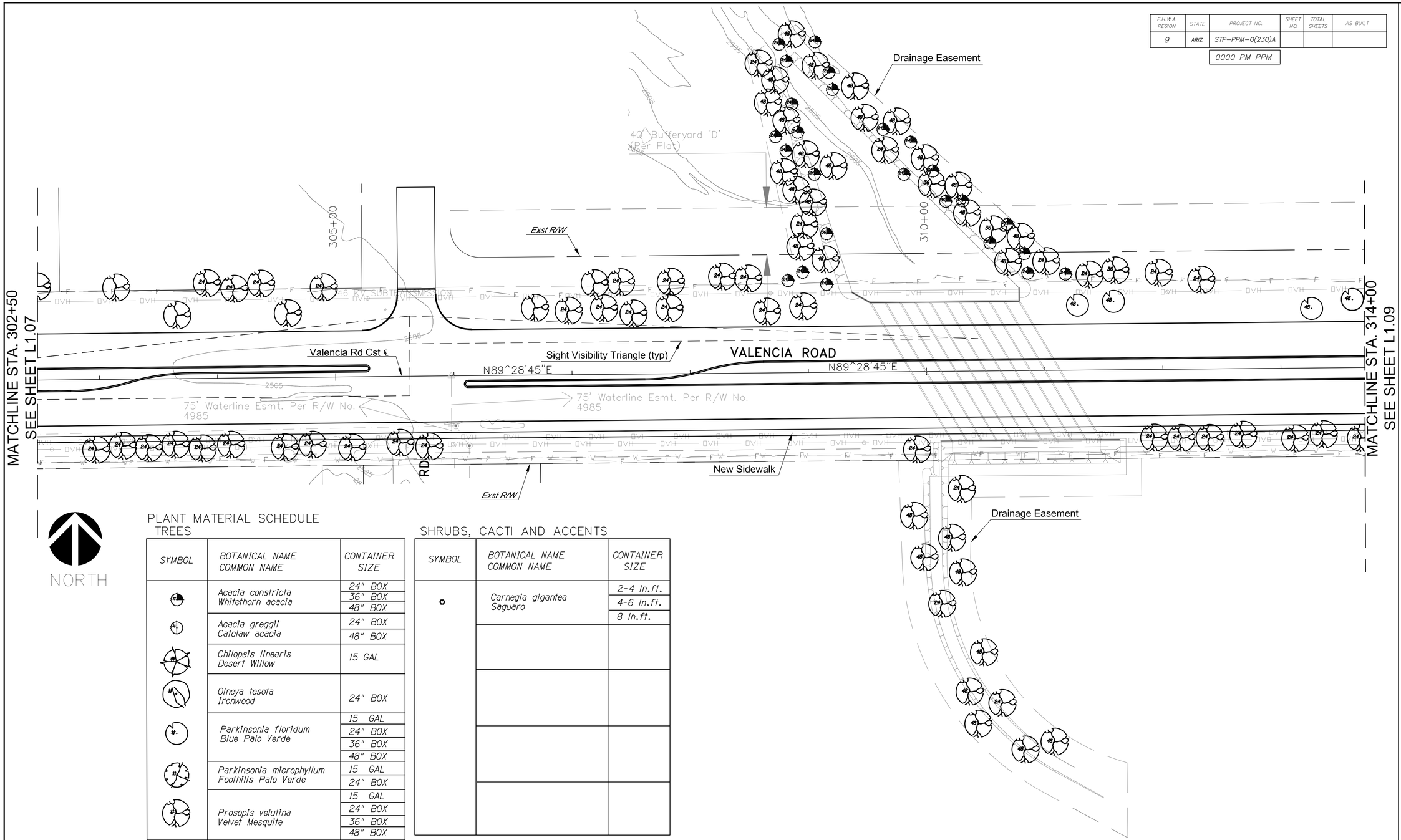
Design Consulting
Professional Collaborative Innovative Design

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



PLANT MATERIAL SCHEDULE

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SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
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NOTE:
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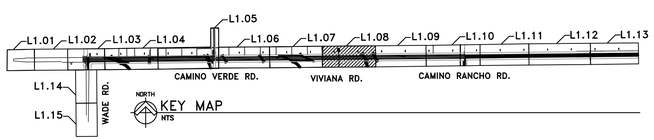

KEY MAP

Arizona Blue Stake
1-800-STAKE-IT
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Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

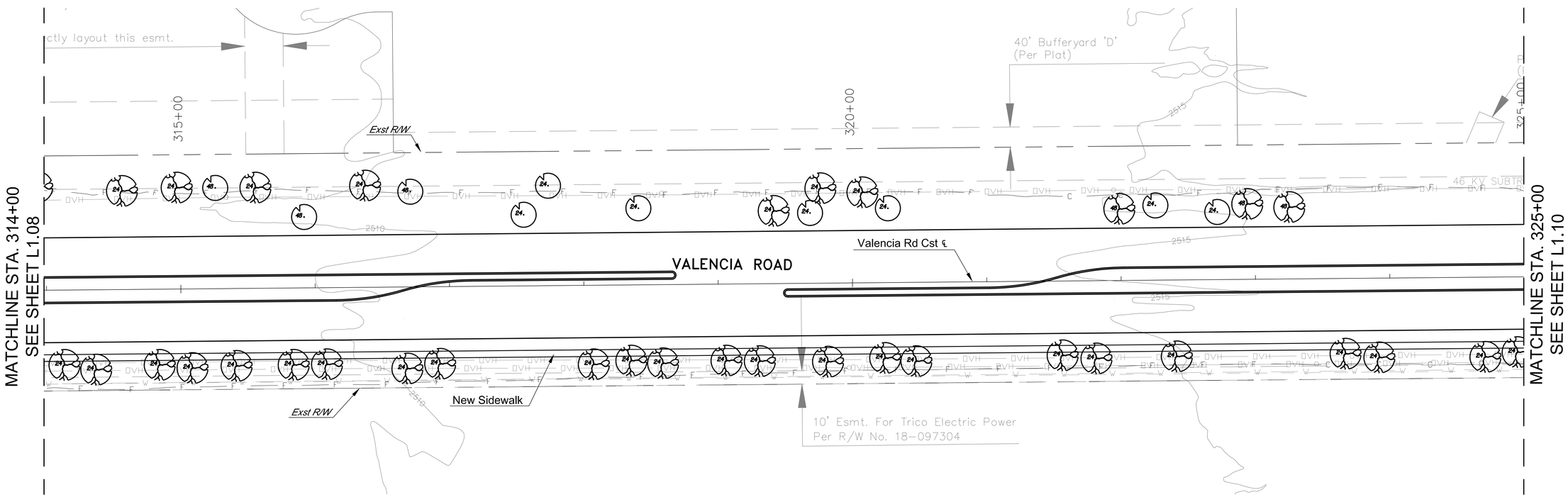
STAGE II SUBMITTAL AUGUST 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40'	L1.08 of L1.16	Page of
	Vert. 1"=NA		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



NORTH

PLANT MATERIAL SCHEDULE

TREES

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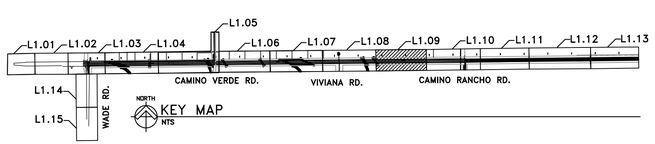
	Parkinsonia microphyllum Foothills Palo Verde	15 GAL
		24" BOX
	Prosopis velutina Velvet Mesquite	15 GAL
		24" BOX
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 ln.ft.
		4-6 ln.ft.
		8 ln.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Scales	Horiz. 1"=40'	L1.09 of L1.16	Page of
	Vert. 1"=NA		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

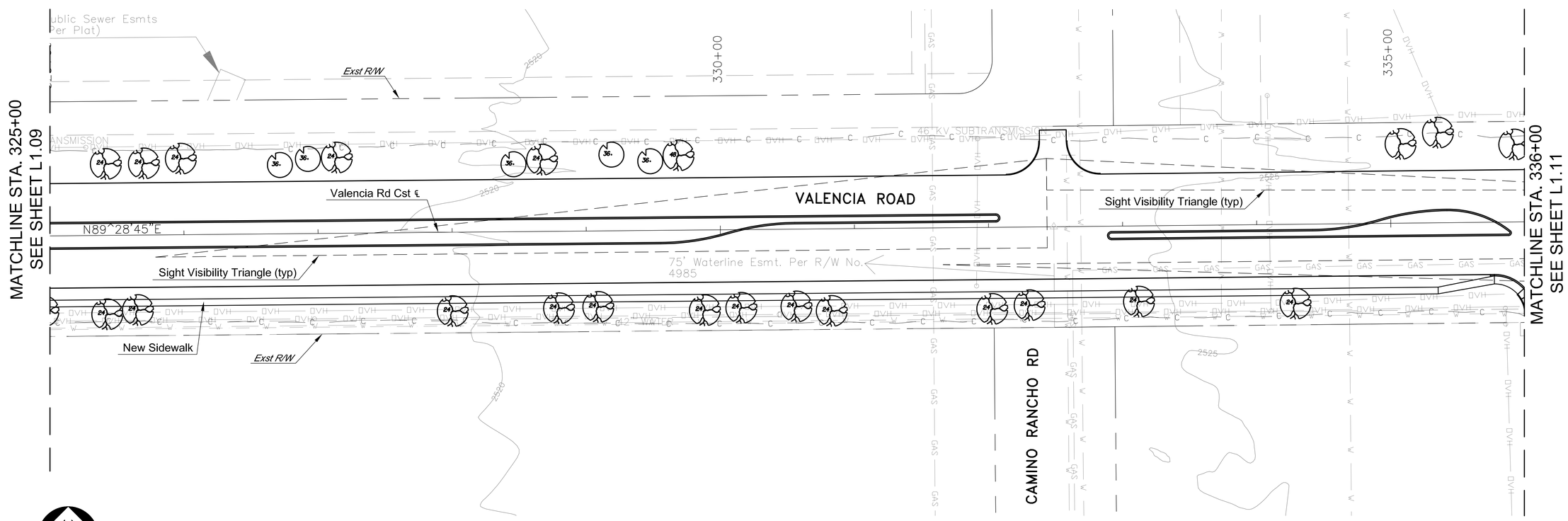
		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



PLANT MATERIAL SCHEDULE

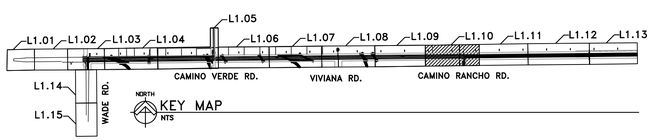
TREES

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Acacia constricta / Whitethorn acacia	24" BOX
		36" BOX
		48" BOX
	Acacia greggii / Catclaw acacia	24" BOX
		48" BOX
	Chilopsis linearis / Desert Willow	15 GAL
	Olneya tesota / Ironwood	24" BOX
	Parkinsonia floridum / Blue Palo Verde	15 GAL
		24" BOX
		36" BOX
		48" BOX
	Parkinsonia microphyllum / Foothills Palo Verde	15 GAL
		24" BOX
	Prosopis velutina / Velvet Mesquite	15 GAL
		24" BOX
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Carnegia gigantea / Saguaro	2-4 ln.ft.
		4-6 ln.ft.
		8 ln.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



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No.	Revision Description	Date

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Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

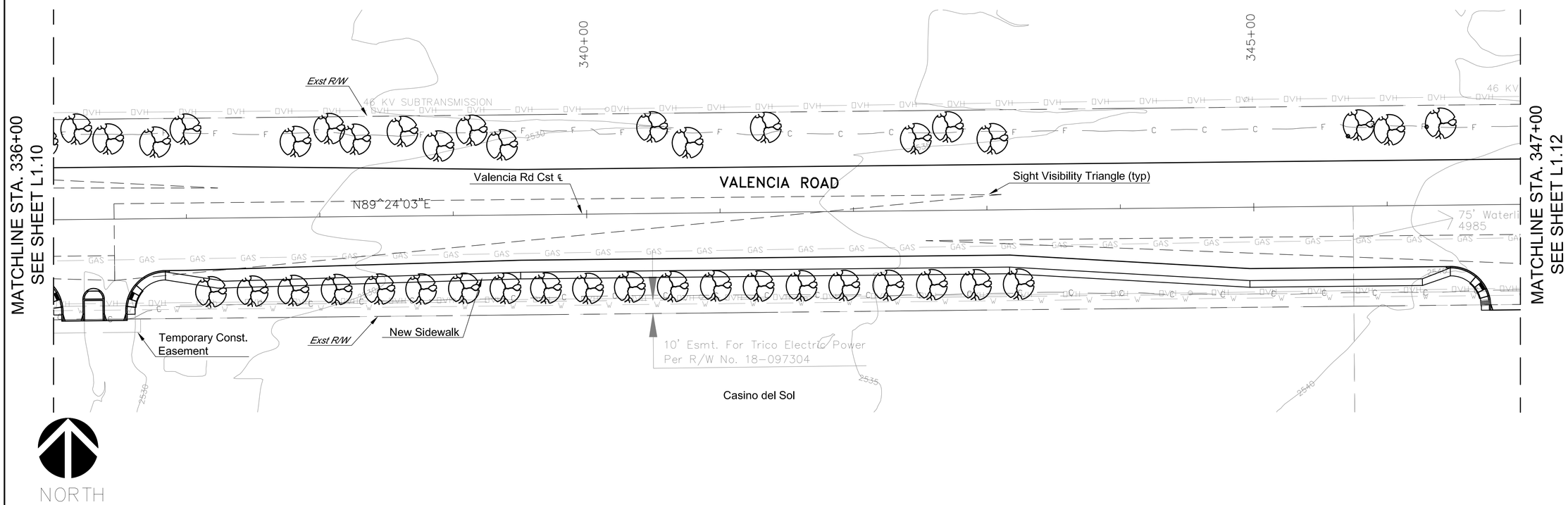
Design Consulting
Professional Collaborative Innovative Design

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

Scales	Horiz. 1"=40'	L1.10 of L1.16	Page	of
	Vert. 1"=NA			

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM



PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Acacia constricta Whitethorn acacia	24" BOX
		36" BOX
		48" BOX
	Acacia greggii Catclaw acacia	24" BOX
		48" BOX
	Chilopsis linearis Desert Willow	15 GAL
	Olneya tesota Ironwood	24" BOX
	Parkinsonia floridum Blue Palo Verde	15 GAL
		24" BOX
		36" BOX
		48" BOX
	Parkinsonia microphyllum Foothills Palo Verde	15 GAL
		24" BOX
	Prosopis velutina Velvet Mesquite	15 GAL
		24" BOX
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 In.ft.
		4-6 In.ft.
		8 In.ft.

NOTE:
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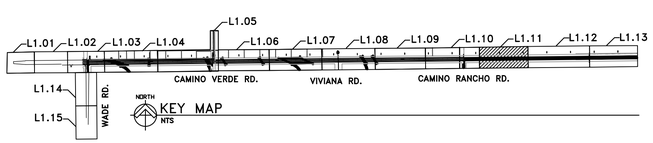

KEY MAP

Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Scales	Horiz. 1"=40'	L1.11 of L1.16	Page of
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Pima County Department of Transportation

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Checked	LR	08/2011
Proj. LA	LR	08/2011

No.	Revision Description	Engineer	Date

STAGE II
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VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

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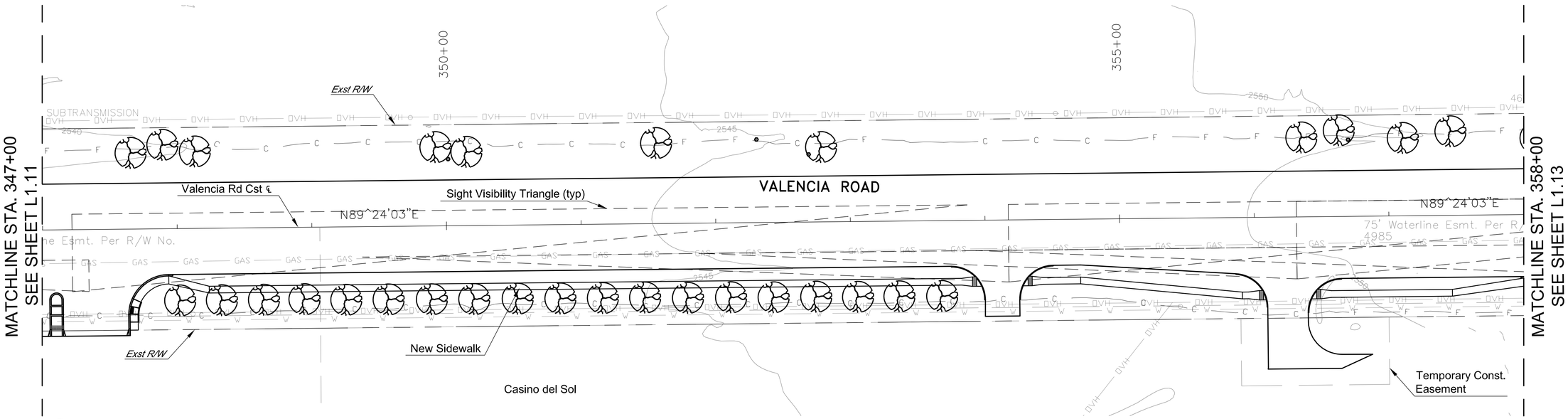


NORTH

PLANT MATERIAL SCHEDULE

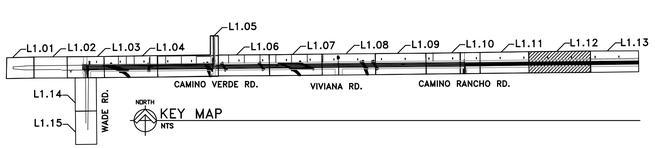
TREES

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Acacia constricta / Whitethorn acacia	24" BOX
		36" BOX
		48" BOX
	Acacia greggii / Catclaw acacia	24" BOX
		48" BOX
	Chilopsis linearis / Desert Willow	15 GAL
	Olneya tesota / Ironwood	24" BOX
	Parkinsonia floridum / Blue Palo Verde	15 GAL
		24" BOX
		36" BOX
		48" BOX
	Parkinsonia microphyllum / Foothills Palo Verde	15 GAL
		24" BOX
	Prosopis velutina / Velvet Mesquite	15 GAL
		24" BOX
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Carnegia gigantea / Saguaro	2-4 In.ft.
		4-6 In.ft.
		8 In.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



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Pima County Department of Transportation

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Proj. LA	LR	08/2011

STAGE II
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Design Consulting
Integrated Collaborative Innovative Design

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40'	L1.12 of L1.16	Page of
	Vert. 1"=NA		

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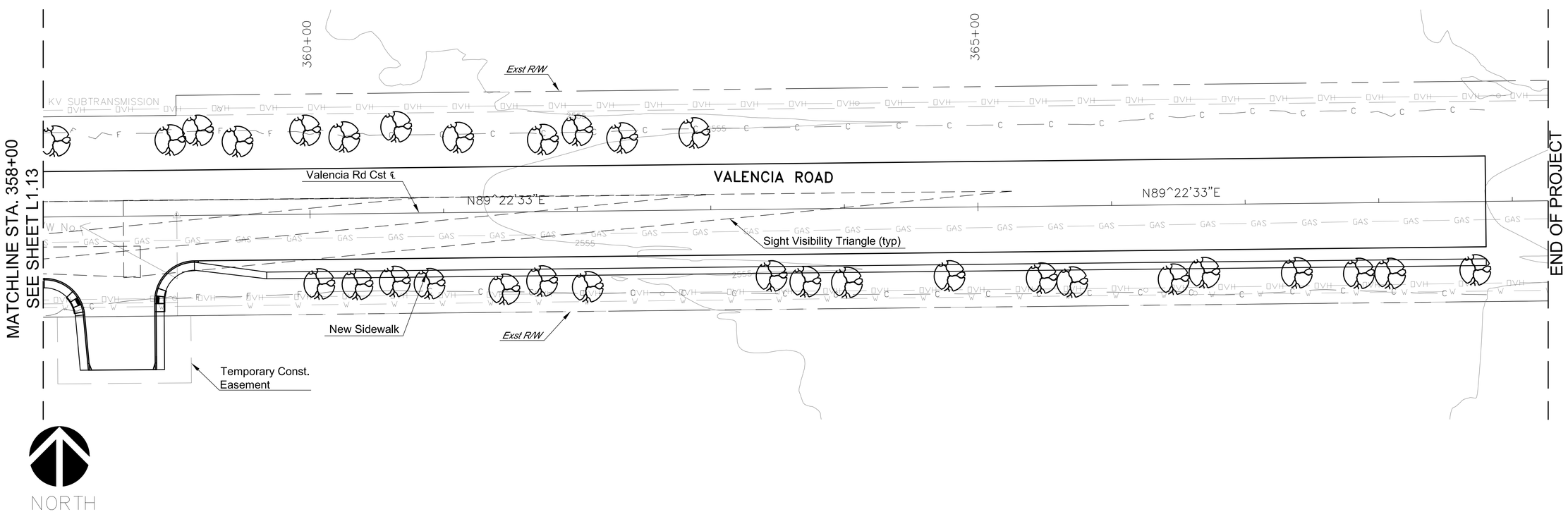
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM



PLANT MATERIAL SCHEDULE

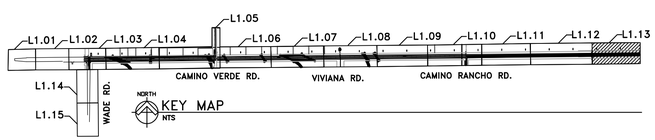
TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Acacia constricta Whitethorn acacia	24" BOX
		36" BOX
		48" BOX
	Acacia greggii Catclaw acacia	24" BOX
		48" BOX
	Chilopsis linearis Desert Willow	15 GAL
	Olneya tesota Ironwood	24" BOX
	Parkinsonia floridum Blue Palo Verde	15 GAL
		24" BOX
		36" BOX
		48" BOX
	Parkinsonia microphyllum Foothills Palo Verde	15 GAL
		24" BOX
	Prosopis velutina Velvet Mesquite	15 GAL
		24" BOX
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 in.ft.
		4-6 in.ft.
		8 in.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



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Scales	Horiz. 1"=40'	L1.13 of L1.16	Page of
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Pima County Department of Transportation

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Drawn	CJ, LM	08/2011
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VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

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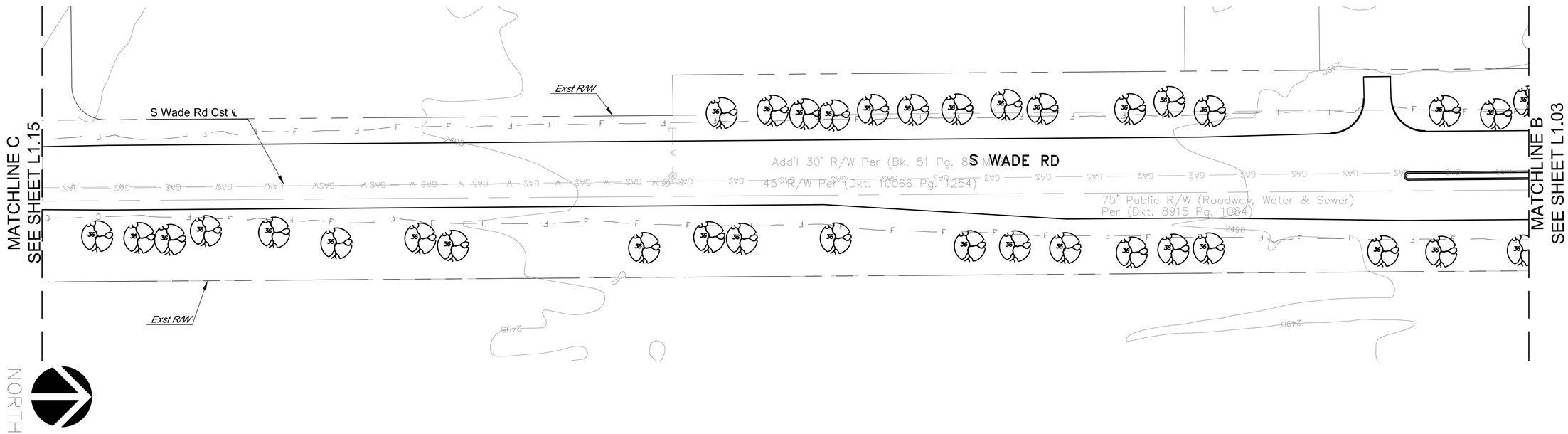

PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Acacia constricta / Whitethorn acacia	24" BOX
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		48" BOX
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	Parkinsonia microphyllum / Foothills Palo Verde	15 GAL
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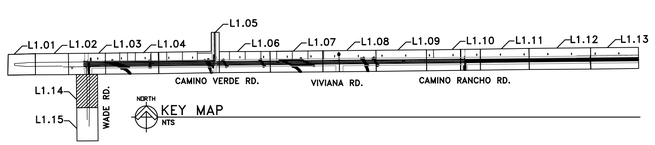
		24" BOX
		36" BOX
		48" BOX

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE
	Carnegia gigantea / Saguaro	2-4 In.ft.
		4-6 In.ft.
		8 In.ft.

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.



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Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

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VALENCIA ROAD
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Scales	Horiz. 1"=40'	L1.14 of L1.16	Page of
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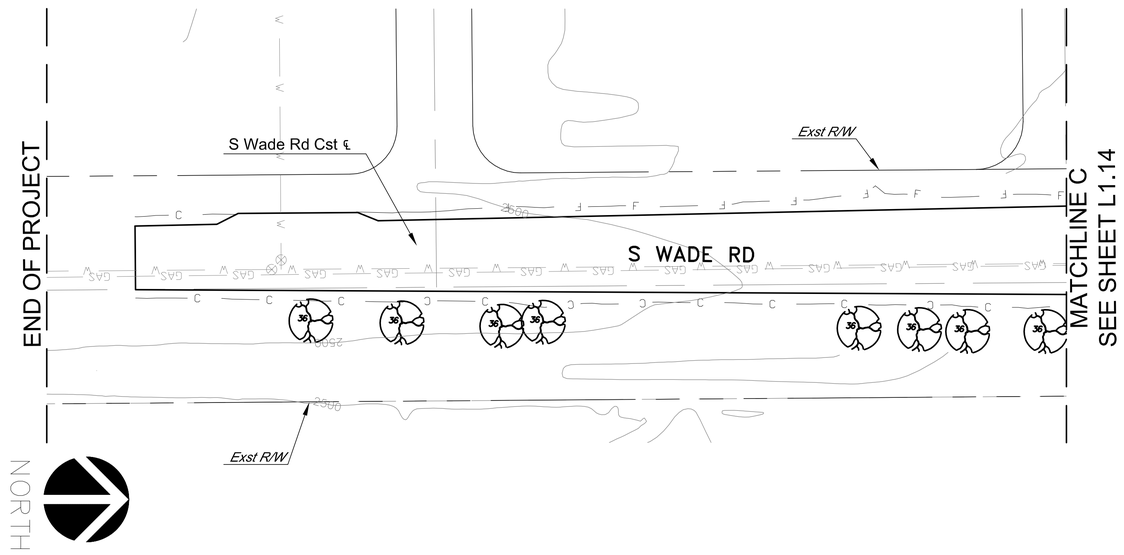

PLANT MATERIAL SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Acacia constricta Whitethorn acacia	24" BOX
		36" BOX
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SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE
	Carnegia gigantea Saguaro	2-4 In.ft.
		4-6 In.ft.
		8 In.ft.

NOTE:
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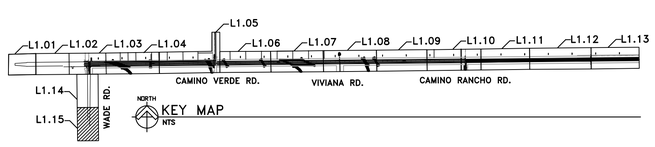

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VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

Scales	Horiz. 1"=40'	L1.15 of L1.16	Page of
	Vert. 1"=NA		

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	—— T ——	Lateral Line Sch 40 PVC (Trees)	¾"
Ⓜ	Master Valve	T.B.D.	—— S ——	Lateral Line Sch 40 PVC (Shrub)	¾"
Ⓕ	Flow Sensor	T.B.D.	——◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 / 2" / T — Riser #
Tree or Shrub

EMITTER SCHEDULE
TREES

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE	NO. OF OUTLETS	GPH/ OUTLET	TOTAL GPH
#	Acacia constricta / Whitethorn acacia	24" BOX / 36" BOX / 48" BOX			
#	Acacia greggii / Catclaw acacia	24" BOX / 36" BOX / 48" BOX			
#	Chilopsis linearis / Desert Willow	15 GAL / 24" BOX / 36" BOX / 48" BOX			
#	Olneya tesota / Ironwood	15 GAL / 24" BOX / 36" BOX / 48" BOX			
#.	Parkinsonia floridum / Blue Palo Verde	15 GAL / 24" BOX / 36" BOX / 48" BOX			
#	Parkinsonia microphyllum / Foothills Palo Verde	15 GAL / 24" BOX / 36" BOX / 48" BOX			
#	Prosopis velutina / Velvet Mesquite	15 GAL / 24" BOX / 36" BOX / 48" BOX			

NOTE:
Number within plant symbol indicates box size in inches. No number indicates 15 gallon size.

SHRUBS, CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME / COMMON NAME	CONTAINER SIZE	NO. OF OUTLETS	GPH/ OUTLET	TOTAL GPH
✿	Carnegia gigantea / Saguaro	2-4 In.ft. / 4-6 In.ft. / 8 In.ft.			

NOTES:
1. Irrigation Plans are schematic. Placement of all Irrigation components, including location of pipe, points of connection, valves, controllers and meters shall be field staked and approved by the Engineer prior to installation.
2. Irrigation Mainline, Water Meters, Valves, Flow Sensors, Controllers, and Backflow Preventers shall be located outside of Utility Easements. Wherever possible, submains and laterals shall be located outside of Utility Easements.
3. Mainline and Submains shall run parallel to Valencia Road where possible.
4. Manual shutoff valve to be provided at Riparian Mitigation Areas as noted on plans to allow for Irrigation to be turned off after establishment period.

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STAGE II SUBMITTAL
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Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

Scales: Horiz. 1"=40' / Vert. 1"=NA

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

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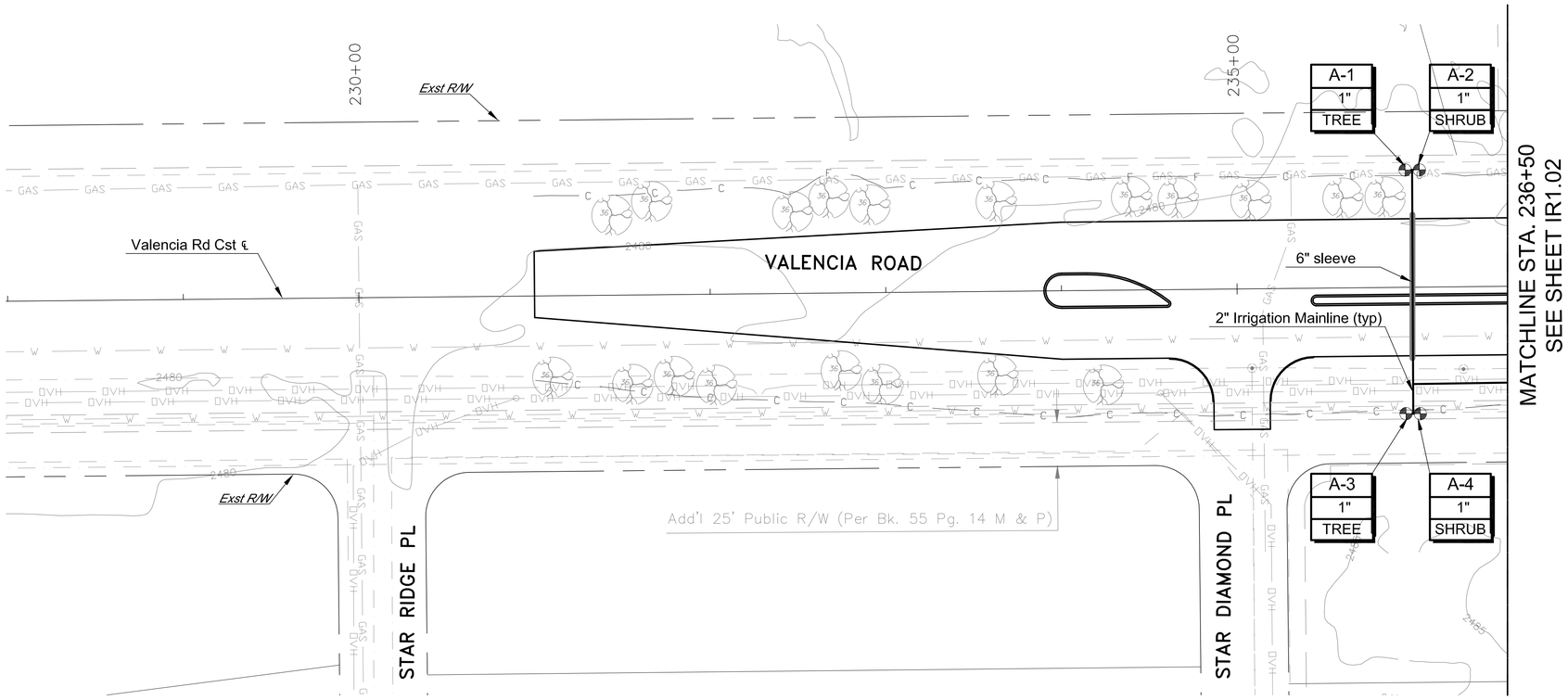


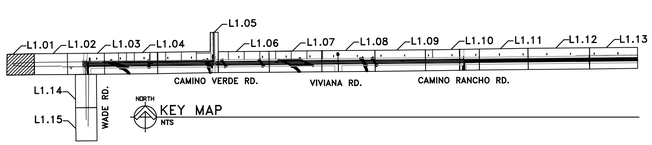
IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A		Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"		Submain Class Sch 40 PVC	1"
	R.P. Backflow Preventer	2"		Lateral Line Sch 40 PVC (Trees)	¾"
M	Master Valve	T.B.D.		Lateral Line Sch 40 PVC (Shrub)	¾"
F	Flow Sensor	T.B.D.		Lateral End Cap Assembly	N/A
	Control Valve (Remote) (Electric)	1"		Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
	Pressure Regulator Riser	¾"		Sleeve SCH 40 PVC	2"
	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 / 2" / T — Riser #
Tree or Shrub



KEY MAP

Arizona Blue Stake
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1-800-782-5348
Call Two Working Days Before You Dig

No.	Revision Description	Engineer	Date

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Priscilla S. Cornelio, P.E., Director

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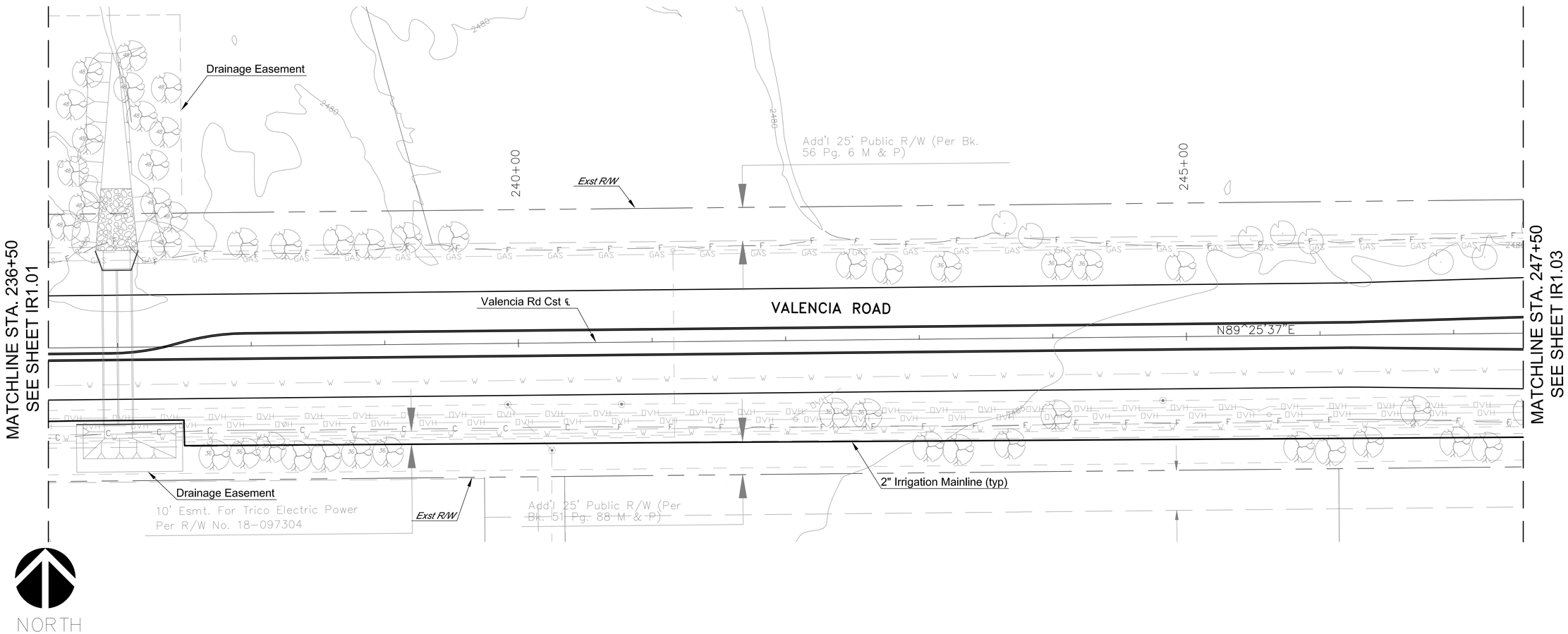
Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.01 of IR1.18	Page of

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



IRRIGATION EQUIPMENT SCHEDULE

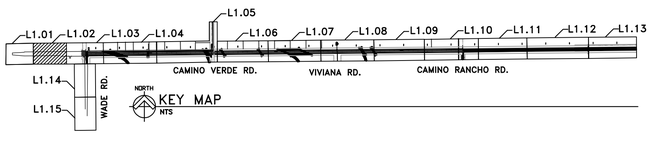
SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A		Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"		Submain Class Sch 40 PVC	1"
	R.P. Backflow Preventer	2"		Lateral Line Sch 40 PVC (Trees)	¾"
M	Master Valve	T.B.D.		Lateral Line Sch 40 PVC (Shrub)	¾"
F	Flow Sensor	T.B.D.		Lateral End Cap Assembly	N/A
	Control Valve (Remote) (Electric)	1"		Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
	Pressure Regulator Riser	¾"		Sleeve SCH 40 PVC	2"
	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 2" / Tree or Shrub T — Riser #

Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig



No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

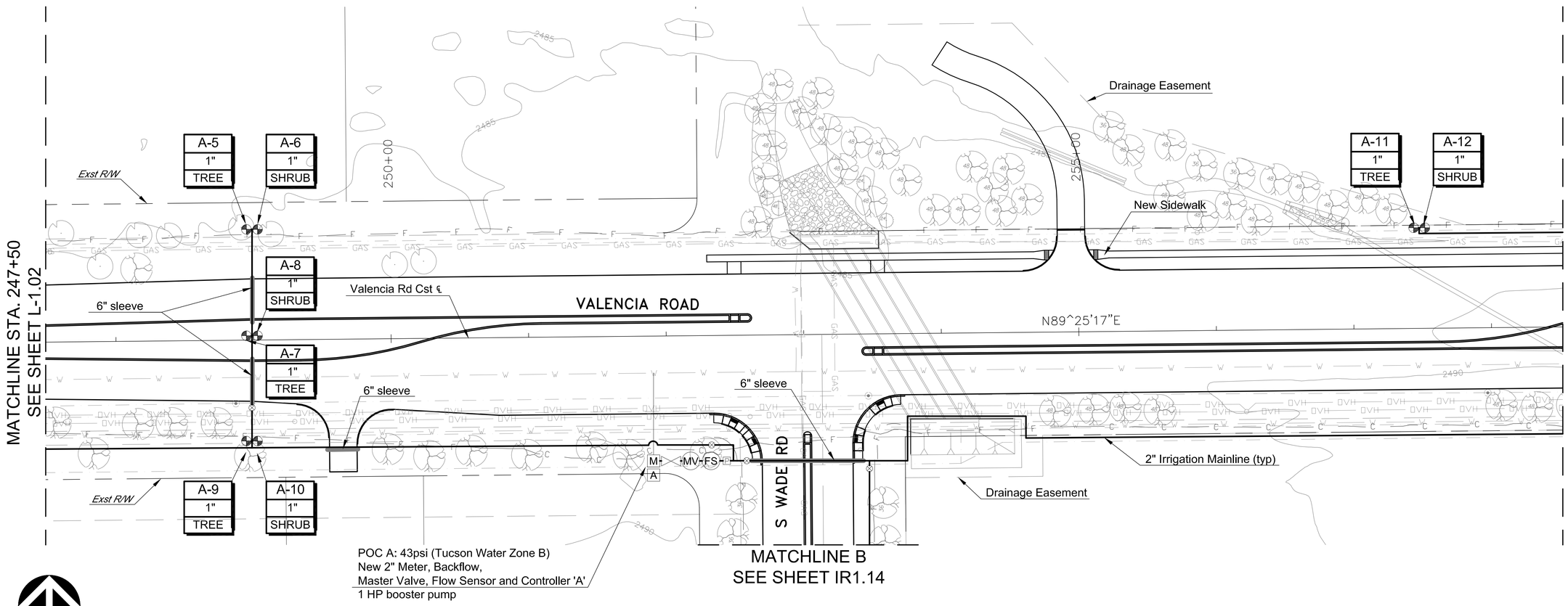
Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.02 of IR1.18	Page of

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



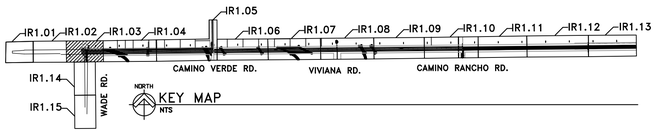
IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	— — —	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	———	Lateral Line Sch 40 PVC (Trees)	¾"
Ⓜ	Master Valve	T.B.D.	———	Lateral Line Sch 40 PVC (Shrub)	¾"
Ⓕ	Flow Sensor	T.B.D.	—◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 / T — 2" Riser #
Tree or Shrub



KEY MAP

Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR, LM	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

Design Consulting

Pima County Department of Transportation
Priscilla S. Cornelio, P.E., Director

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.03 of IR1.18	Page of

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
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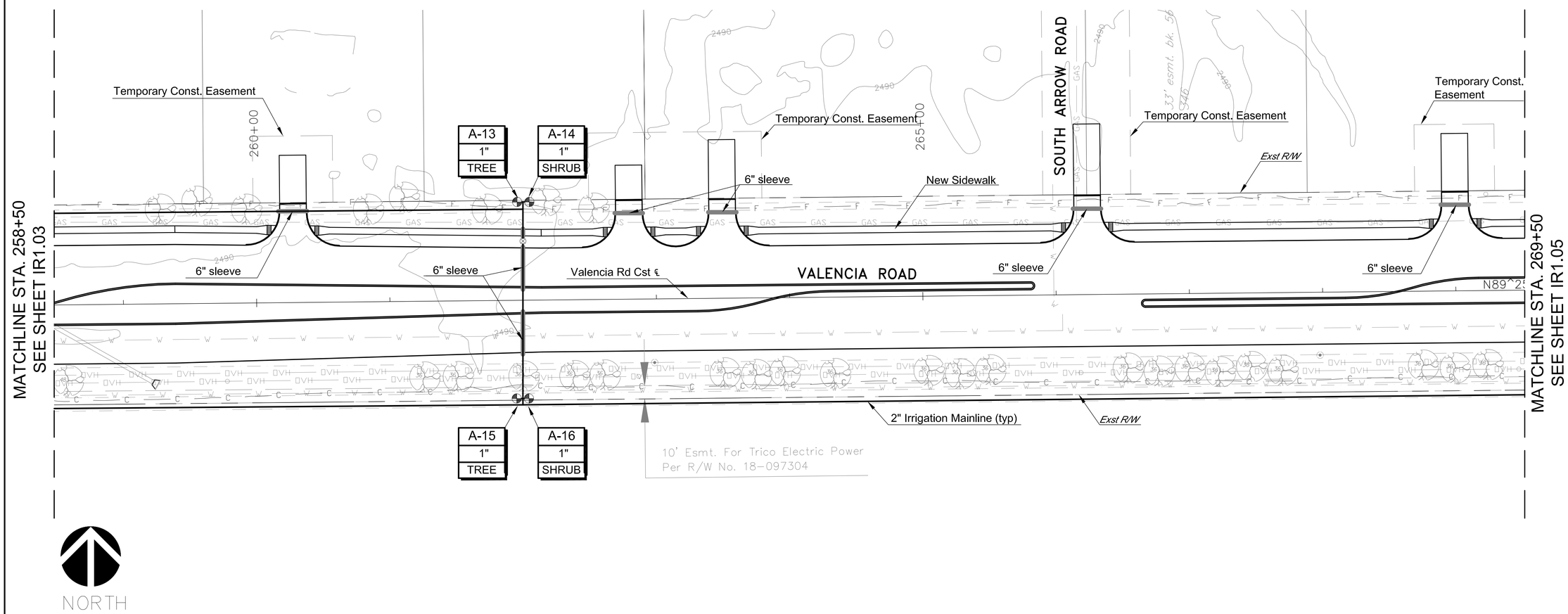
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



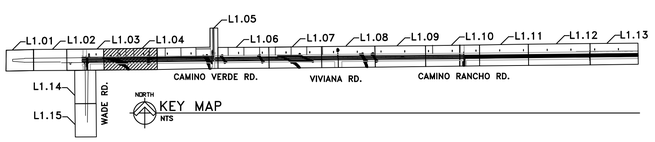
IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	— T —	Lateral Line Sch 40 PVC (Trees)	¾"
Ⓜ	Master Valve	T.B.D.	— S —	Lateral Line Sch 40 PVC (Shrub)	¾"
Ⓕ	Flow Sensor	T.B.D.	—◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◒	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 / 2" / T — Riser #
Tree or Shrub



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
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Scales	Horiz. 1"=40'	IR1.04 of IR1.18	Page of
	Vert. 1"=NA		

Pima County Department of Transportation
Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LM	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR CONSTRUCTION OR RECORDING

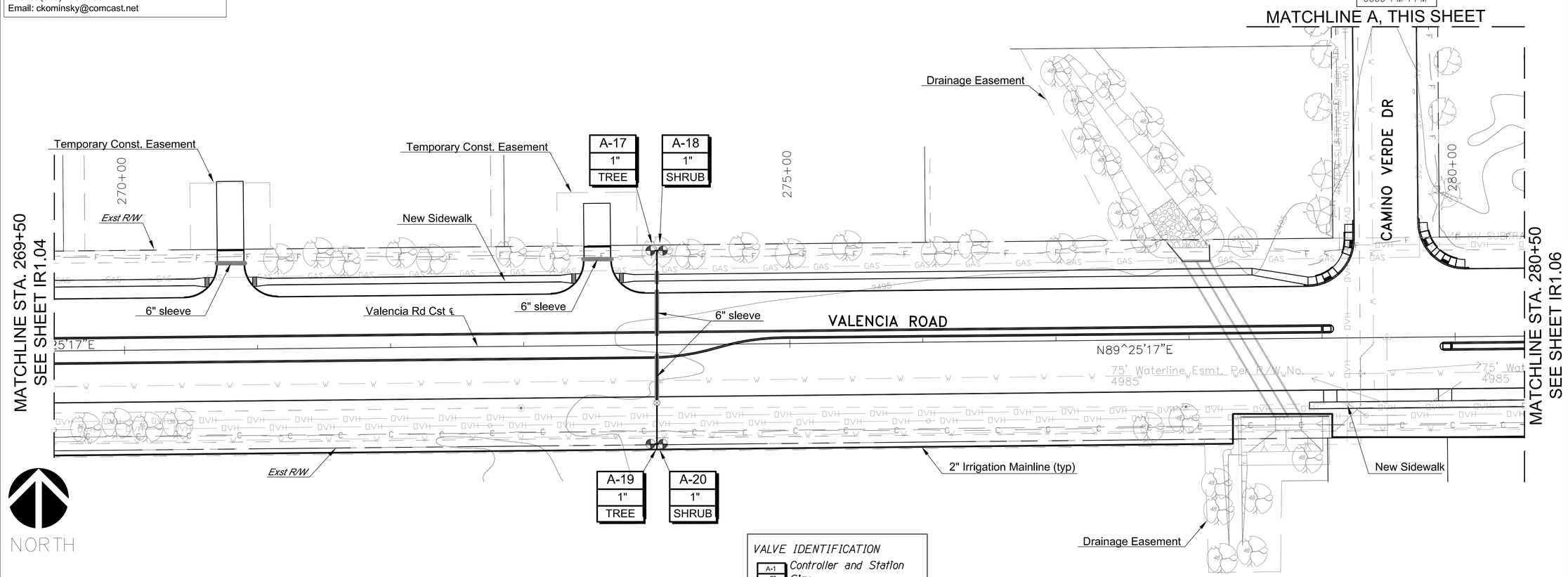
Design Consulting
Licensed Collaborative Professional Design

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM

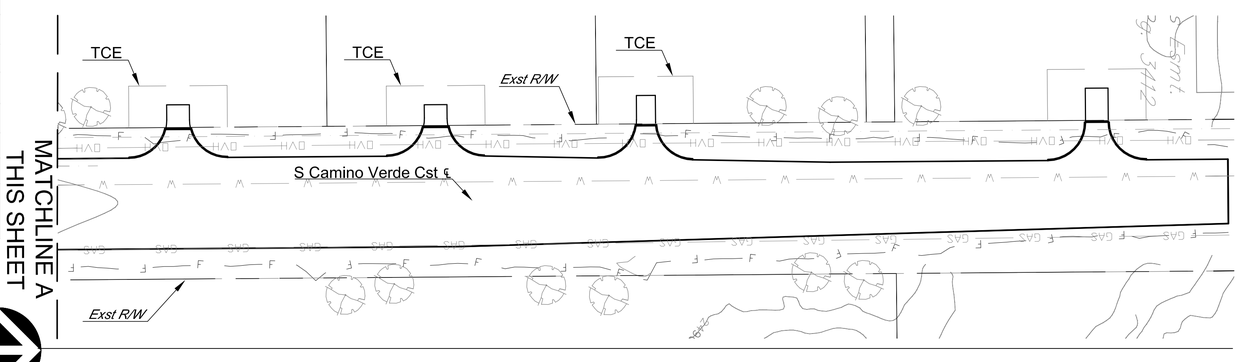


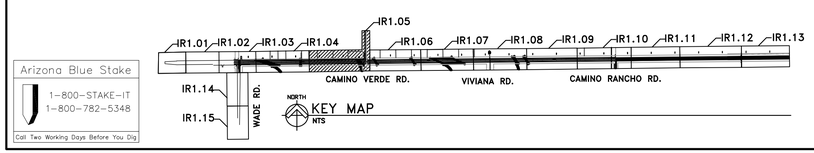
VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 / 2" — Riser #
Tree or Shrub T

IRRIGATION EQUIPMENT SCHEDULE					
SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
	R.P. Backflow Preventer	2"	— T —	Lateral Line Sch 40 PVC (Trees)	¾"
M	Master Valve	T.B.D.	— S —	Lateral Line Sch 40 PVC (Shrub)	¾"
F	Flow Sensor	T.B.D.	—◇	Lateral End Cap Assembly	N/A
	Control Valve (Remote) (Electric)	1"		Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
	Pressure Regulator Riser	¾"		Sleeve SCH 40 PVC	2"
	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.





Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
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Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR, LM	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.05 of IR1.18	Page of

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
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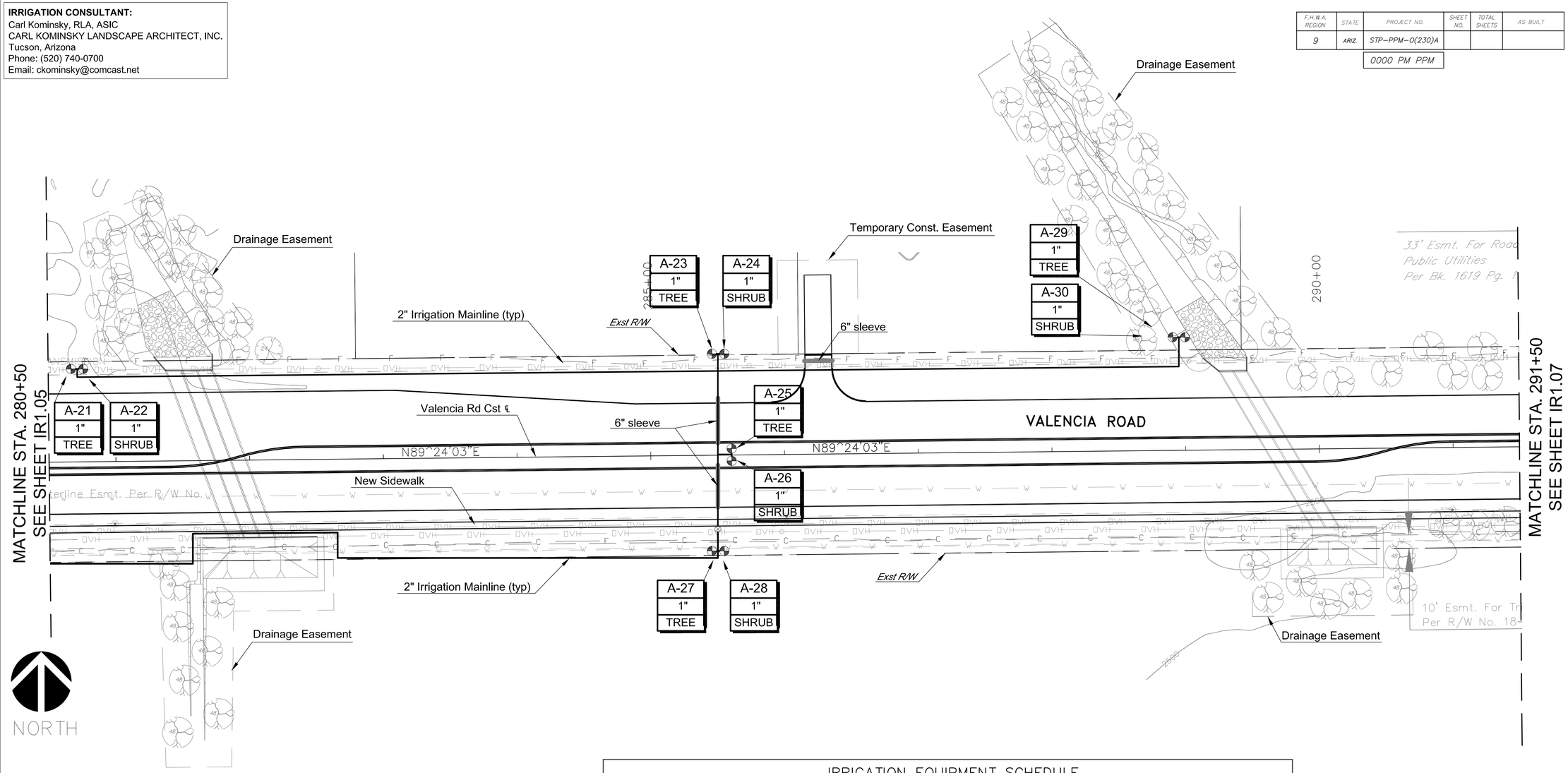
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



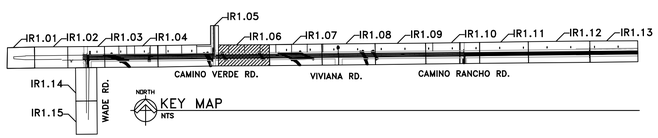
IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	— T —	Lateral Line Sch 40 PVC (Trees)	¾"
M	Master Valve	T.B.D.	— S —	Lateral Line Sch 40 PVC (Shrub)	¾"
F	Flow Sensor	T.B.D.	—◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID (A-1) Riser # (2") Tree or Shrub (T)



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LM	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.06 of IR1.18	Page of

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
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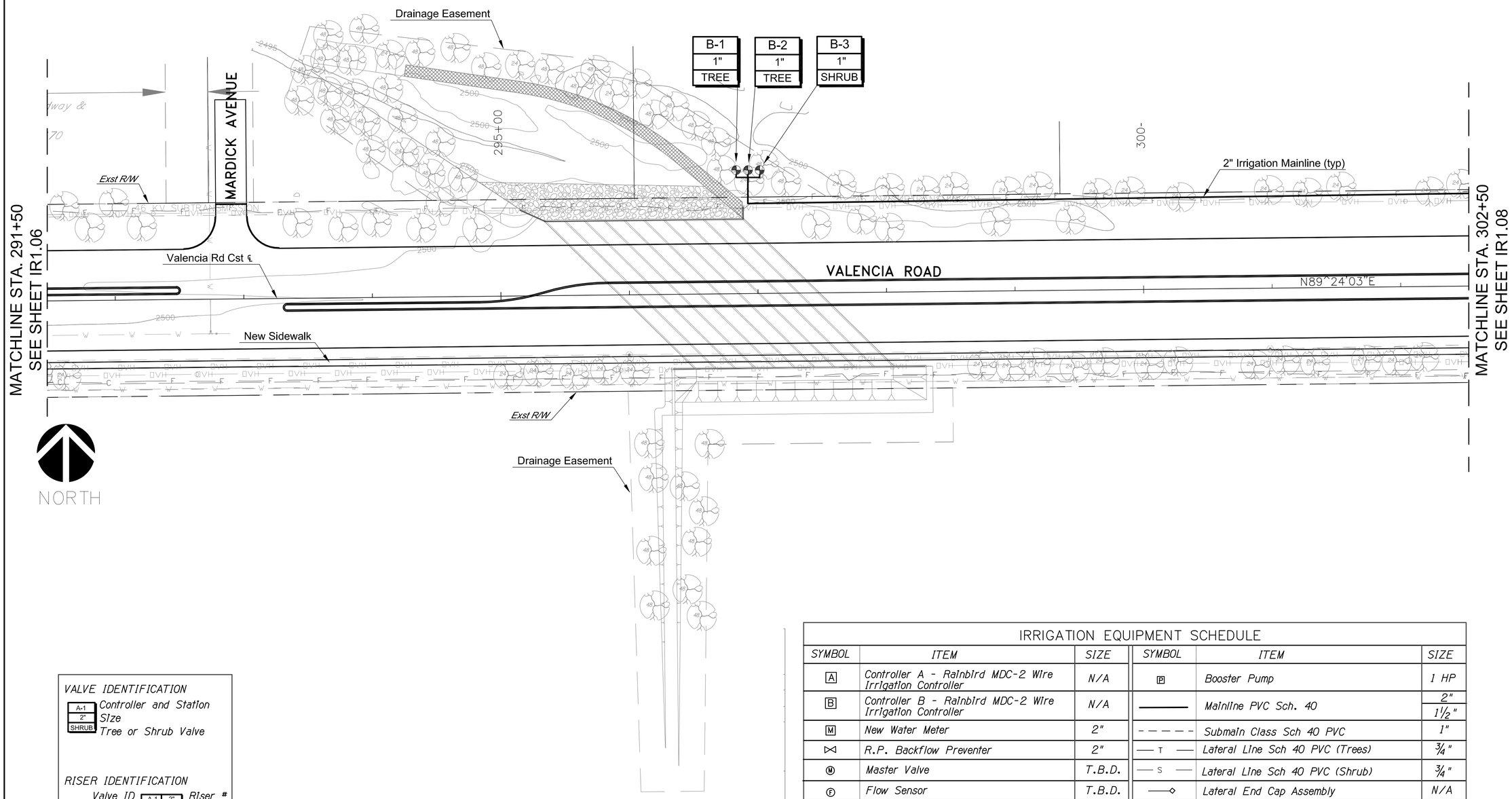
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

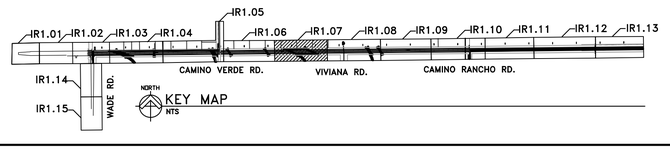


IRRIGATION EQUIPMENT SCHEDULE					
SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	— T —	Lateral Line Sch 40 PVC (Trees)	¾"
M	Master Valve	T.B.D.	— S —	Lateral Line Sch 40 PVC (Shrub)	¾"
F	Flow Sensor	T.B.D.	—◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID (A-1) Riser # (2")
Tree or Shrub (T)



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.07 of IR1.18	Page of

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
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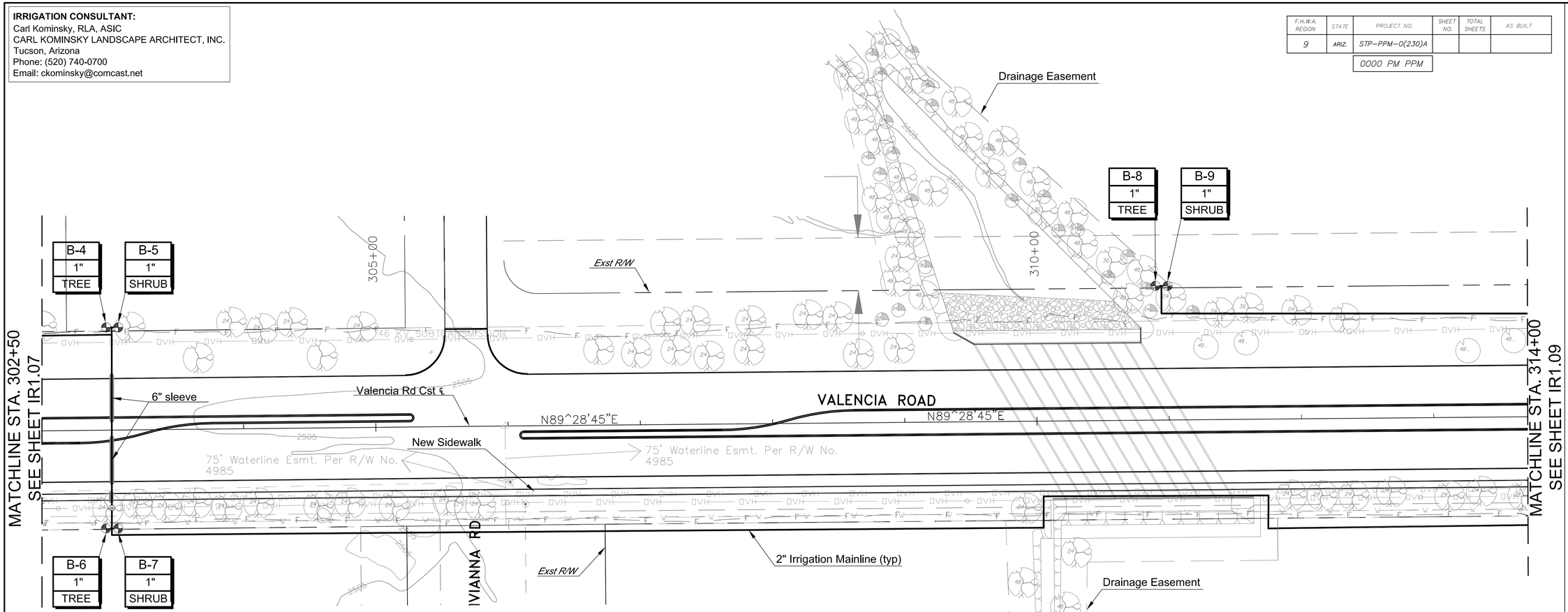
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM



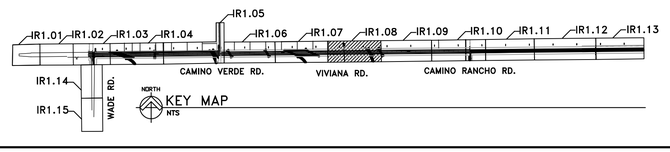
NORTH

IRRIGATION EQUIPMENT SCHEDULE					
SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	—— T ——	Lateral Line Sch 40 PVC (Trees)	¾"
Ⓜ	Master Valve	T.B.D.	—— S ——	Lateral Line Sch 40 PVC (Shrub)	¾"
Ⓕ	Flow Sensor	T.B.D.	——◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1, 2" — Riser #
Tree or Shrub T



KEY MAP

Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LM	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
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OR RECORDING

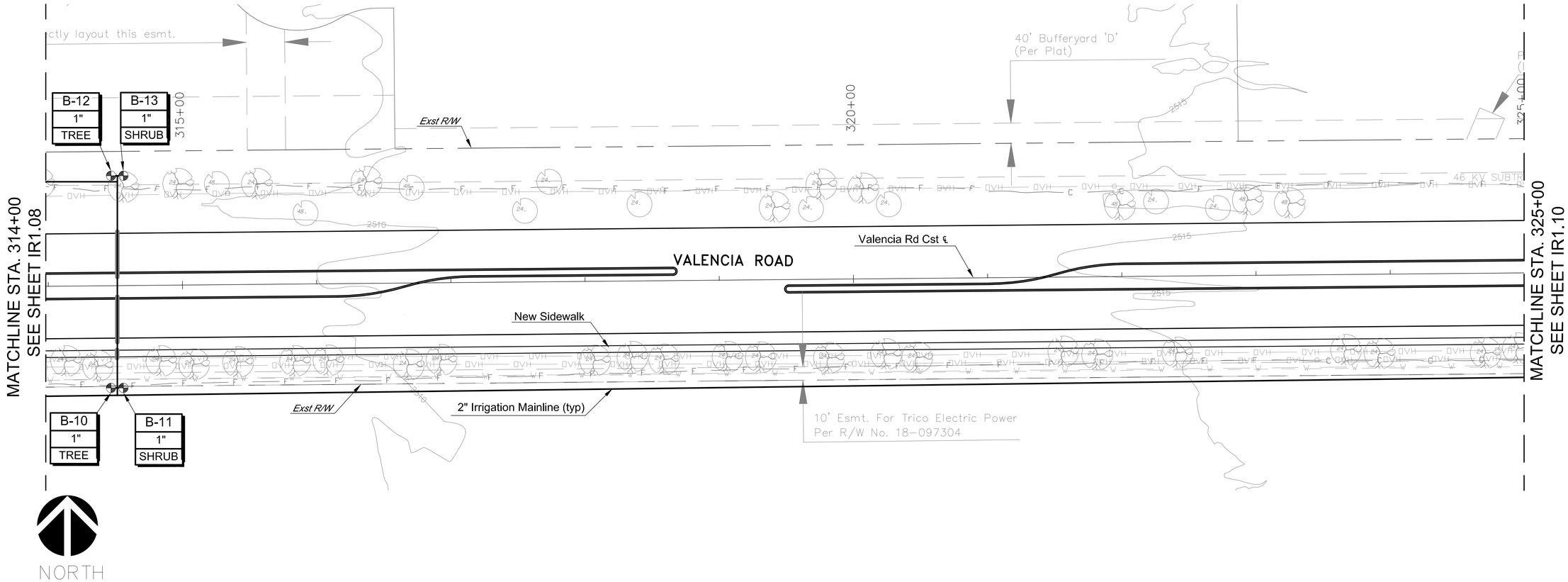
Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.08 of IR1.18	Page of

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



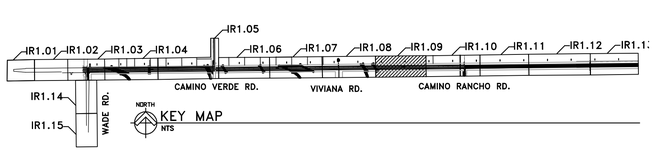
IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A		Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"		Submain Class Sch 40 PVC	1"
	R.P. Backflow Preventer	2"	T	Lateral Line Sch 40 PVC (Trees)	¾"
M	Master Valve	T.B.D.	S	Lateral Line Sch 40 PVC (Shrub)	¾"
F	Flow Sensor	T.B.D.		Lateral End Cap Assembly	N/A
	Control Valve (Remote) (Electric)	1"		Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
	Pressure Regulator Riser	¾"		Sleeve SCH 40 PVC	2"
	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID — A-1 / 2" / T — Riser #
Tree or Shrub



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.09 of IR1.18	Page	of

Pima County Department of Transportation
Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LM	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

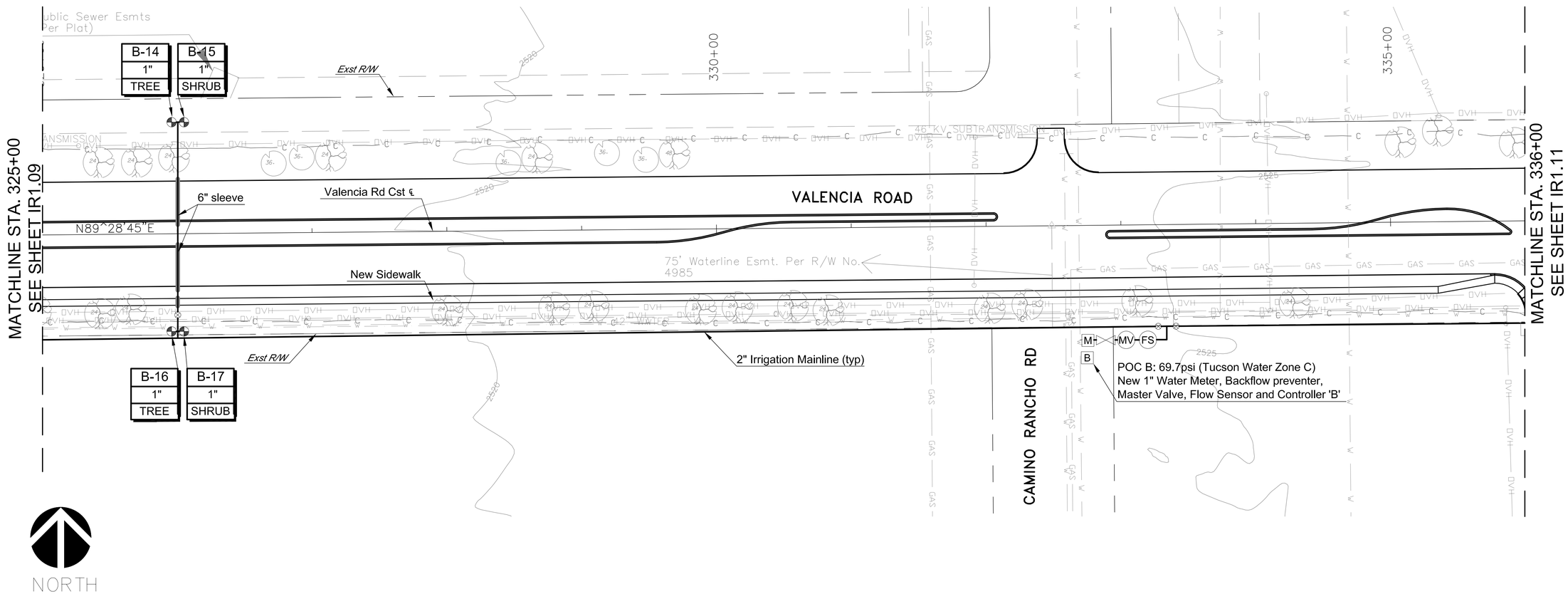
STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



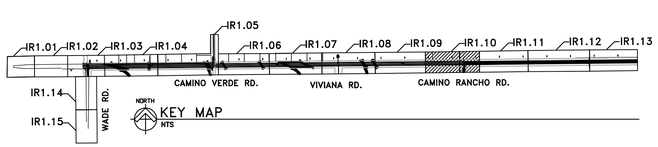
IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	—T—	Lateral Line Sch 40 PVC (Trees)	¾"
Ⓜ	Master Valve	T.B.D.	—S—	Lateral Line Sch 40 PVC (Shrub)	¾"
Ⓕ	Flow Sensor	T.B.D.	—◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID (A-1) Riser # (2")
Tree or Shrub (T)



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.10 of IR1.18	Page of

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
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OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
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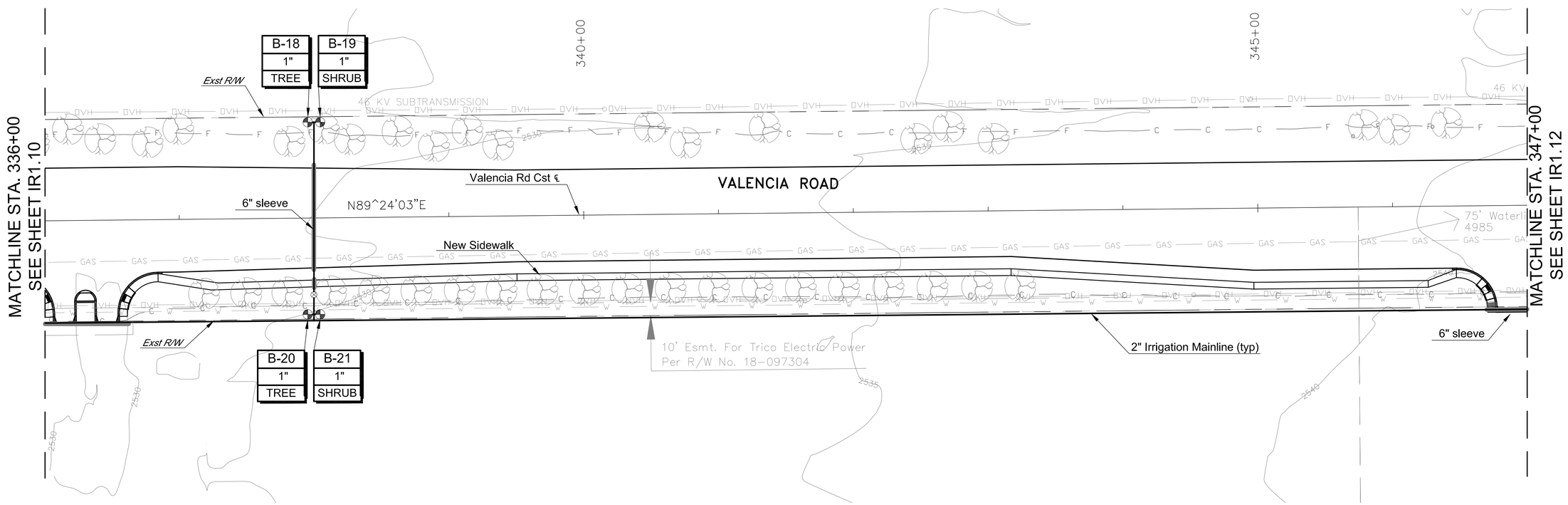
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



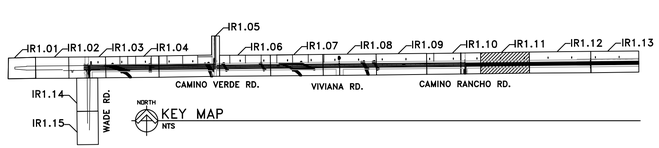
IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	—— T ——	Lateral Line Sch 40 PVC (Trees)	¾"
Ⓜ	Master Valve	T.B.D.	—— S ——	Lateral Line Sch 40 PVC (Shrub)	¾"
Ⓕ	Flow Sensor	T.B.D.	——◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station / Size / Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 2" / T — Riser #
Tree or Shrub



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.11 of IR1.18	Page of

Pima County Department of Transportation
Priscilla S. Cornelio, P.E., Director

Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR, LM	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

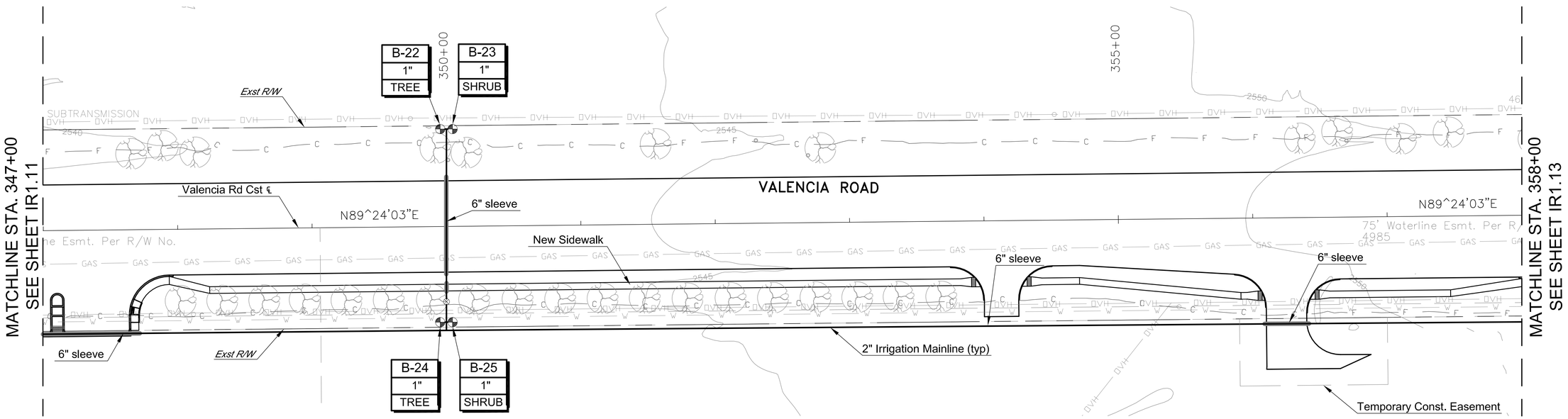
Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			

0000 PM PPM



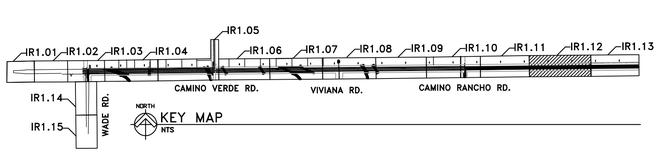
NORTH

IRRIGATION EQUIPMENT SCHEDULE					
SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
M	New Water Meter	2"	- - - - -	Submain Class Sch 40 PVC	1"
⋈	R.P. Backflow Preventer	2"	— T —	Lateral Line Sch 40 PVC (Trees)	¾"
M	Master Valve	T.B.D.	— S —	Lateral Line Sch 40 PVC (Shrub)	¾"
F	Flow Sensor	T.B.D.	—◇	Lateral End Cap Assembly	N/A
◕	Control Valve (Remote) (Electric)	1"	▬	Sleeve SCH 40 PVC (Refer to Civil Plans)	6"
●	Pressure Regulator Riser	¾"	▬	Sleeve SCH 40 PVC	2"
⊗	Mainline Isolation Gate Valve	2"	Not Shown	Emitter Assembly (Multi-port 1 gph, 2 gph each)	N/A
◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 2" / T — Riser #
Tree or Shrub



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Pima County Department of Transportation
Priscilla S. Cornelio, P.E., Director

Designed	CJ, LR, CK
Drawn	CJ
Checked	LR, LM
Proj. LA	LR

No.	Revision Description	Engineer	Date

STAGE II SUBMITTAL AUGUST 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

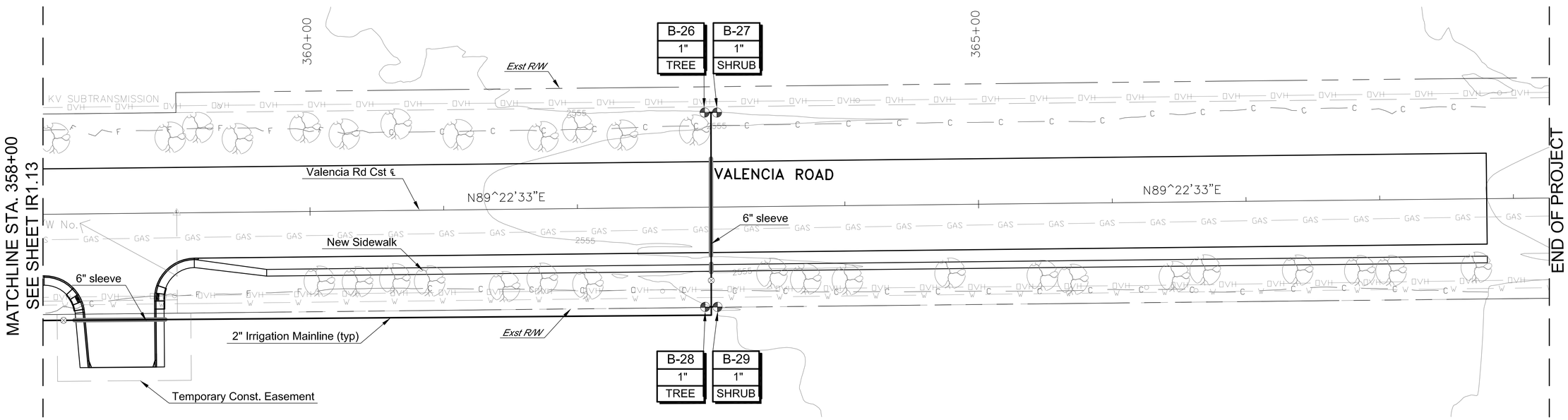
Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTMW

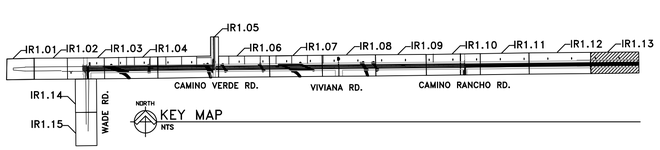
Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.12 of IR1.18	Page of

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
Email: ckominsky@comcast.net

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
0000 PM PPM					



NORTH



Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
A	Controller A - Rainbird MDC-2 Wire Irrigation Controller	N/A	P	Booster Pump	1 HP
B	Controller B - Rainbird MDC-2 Wire Irrigation Controller	N/A	———	Mainline PVC Sch. 40	2" / 1½"
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◕	Mainline Isolation Ball Valve	1½"			

NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 / 2" / T — Riser #
Tree or Shrub

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.13 of IR1.18	Page of

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II SUBMITTAL AUGUST 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
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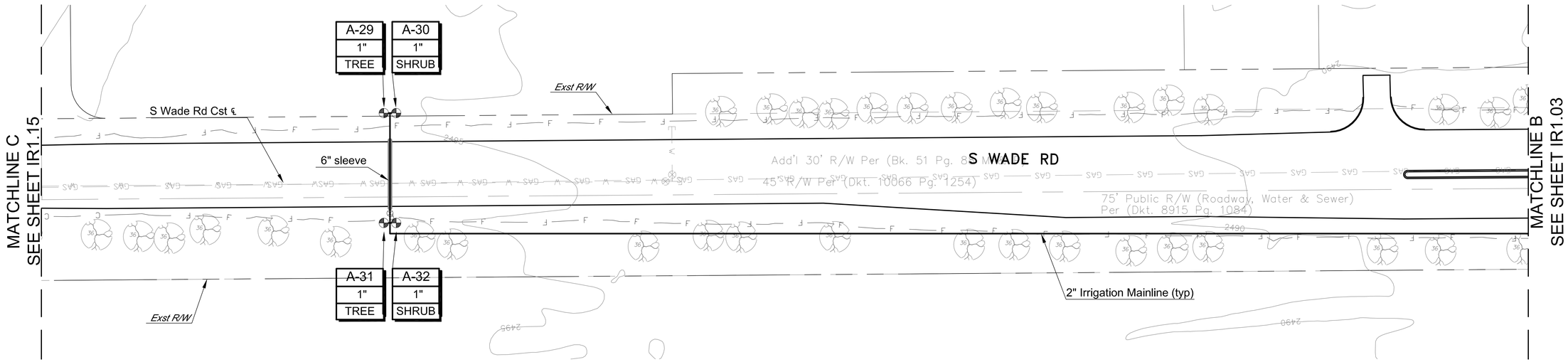
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
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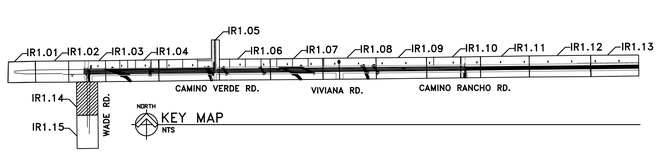
NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 / 2" / T — Riser #
Tree or Shrub



Arizona Blue Stake
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1-800-782-5348
Call Two Working Days Before You Dig

Scales	Horiz. 1"=40' / Vert. 1"=NA	IR1.14 of IR1.18	Page of

Pima County Department of Transportation
Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVAW

IRRIGATION CONSULTANT:
Carl Kominsky, RLA, ASIC
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.
Tucson, Arizona
Phone: (520) 740-0700
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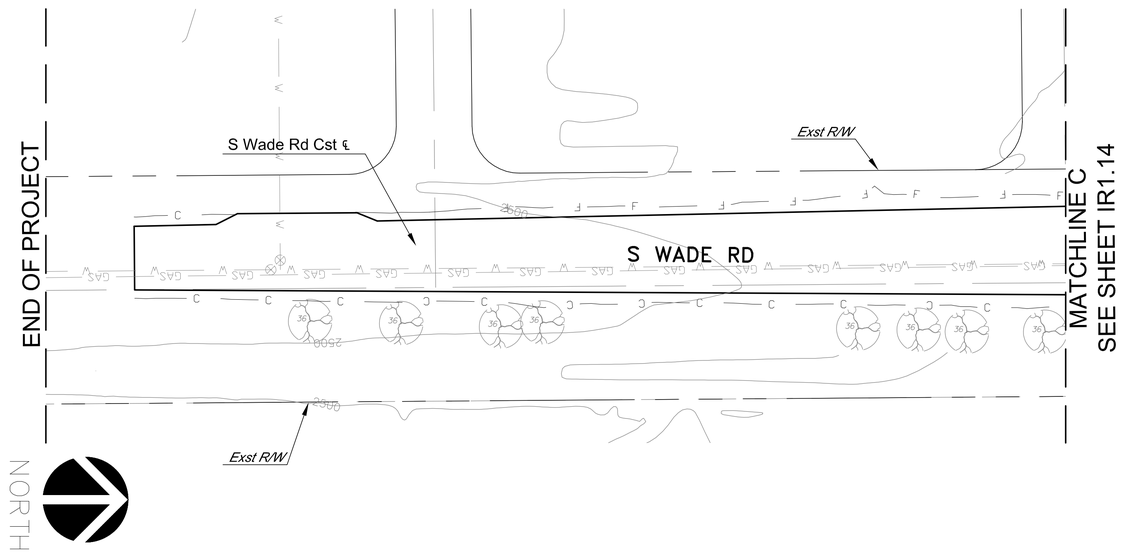
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



IRRIGATION EQUIPMENT SCHEDULE					
SYMBOL	ITEM	SIZE	SYMBOL	ITEM	SIZE
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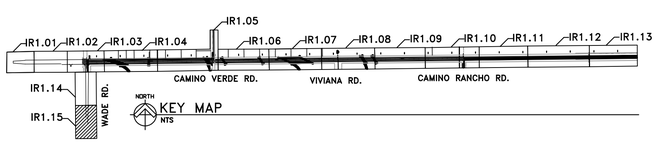
NOTE: Refer to Special Provisions for Additional Requirements.

VALVE IDENTIFICATION
A-1 / 2" / SHRUB — Controller and Station; Size; Tree or Shrub Valve

RISER IDENTIFICATION
Valve ID A-1 2" / T — Riser #
Tree or Shrub



KEY MAP

Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Scales: Horiz. 1"=40' / Vert. 1"=NA

Page of

Pima County Department of Transportation
Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	CJ, LR, CK	08/2011
Drawn	CJ, LR	08/2011
Checked	LR, LM	08/2011
Proj. LA	LR	08/2011

STAGE II
SUBMITTAL
AUGUST 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Design Consulting
Personal Collaboration Professional Design

VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

VALENCIA ROAD
WADE ROAD TO MARK ROAD

Pima County Project No. 4RTVMW
Federal Project No. STP–PPM–O(230)A

General Project Description

Right of Way on Valencia Road Between Star Ridge Place & Mark Road

Ramón Valadez, Chair
District 2

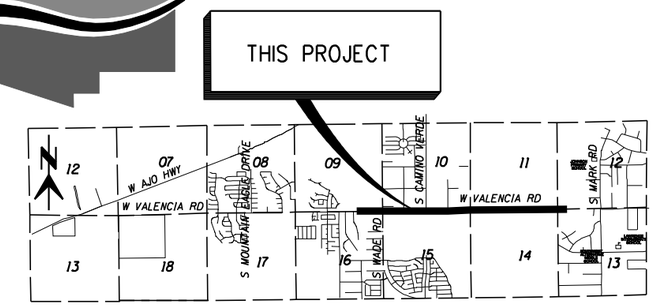
Ann Day
District 1

Raymond J. Carroll
District 4

Sharon Bronson
District 3

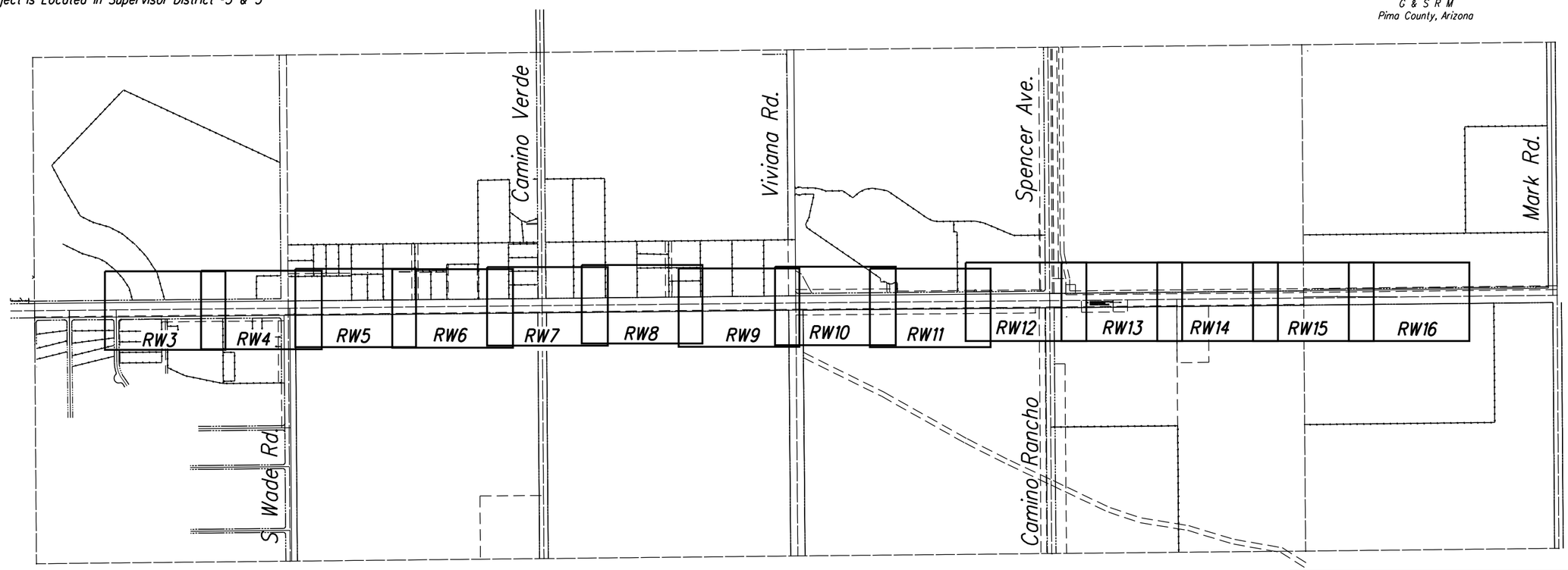
Richard Elias
District 5

This Project is Located in Supervisor District #3 & 5



Location Map
NTS
Sections 9, 10, 11, 12, 13, 14, 15, & 16
T-15-S, R-12-E,
G & S R M
Pima County, Arizona

1" = 600'



Valencia Rd.: Wade Road to Mark Road No. 4RTVMW

Pima County Department of Transportation
201 N. Stone Ave. Tucson, Arizona 85701
Priscilla S. Cornelio, P.E., Director

Arizona Blue Stake
1-800-STAKE-IT
1-800-782-5348
Call Two Working Days Before You Dig

Date: 09\07\11

HDR
HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

No.	Revisions	Engineer	Date

No.	As Built	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

Reviewed by	Engineer	Date
Mgr. Design Engr.		
Mgr. Traffic Engr.		
Mgr. Field Engr.		

Approved: _____ 20__

Priscilla S. Cornelio, P.E.

Project No. 4RTVMW

Sheet No. RW1 of RW19

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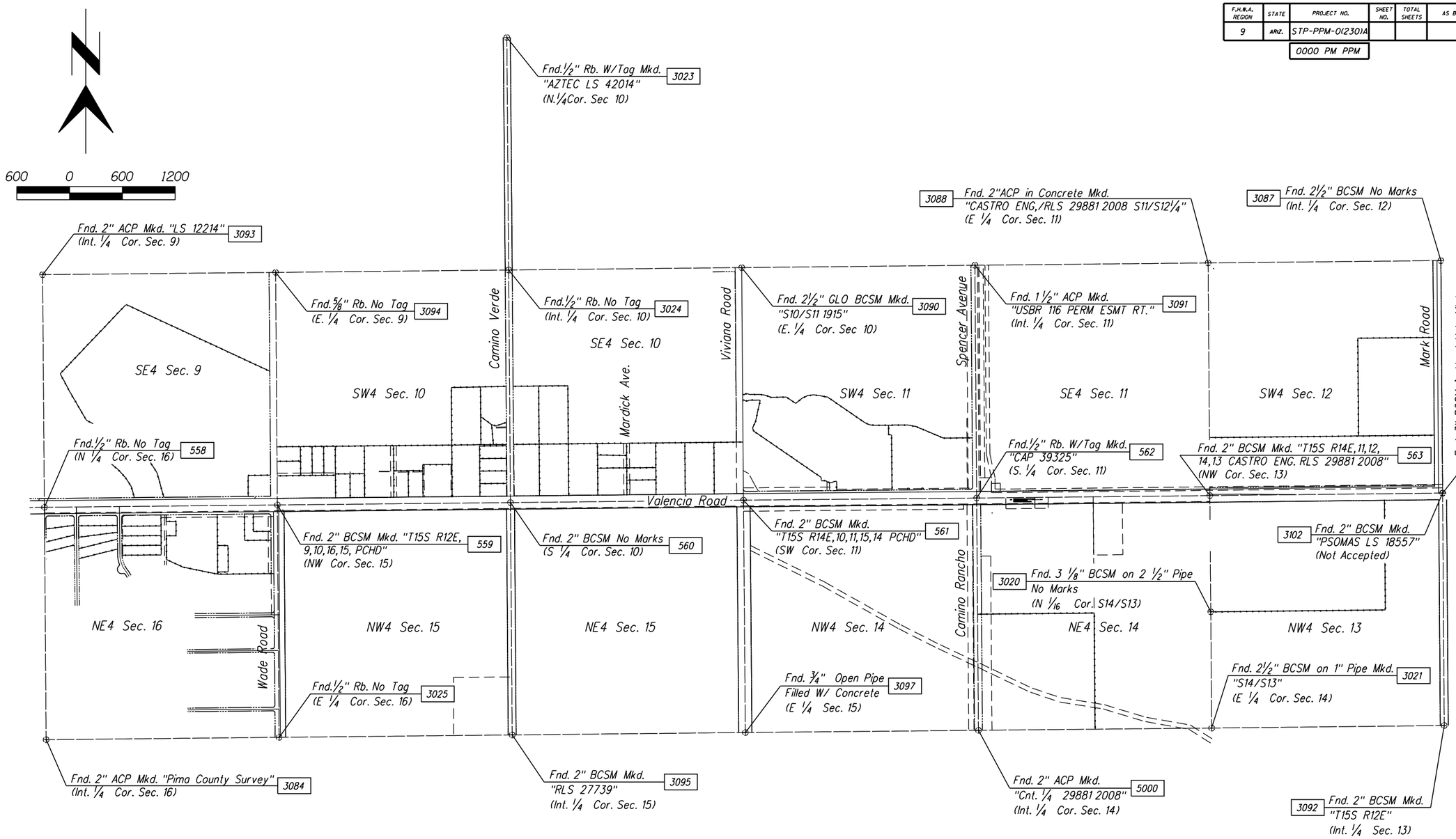
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Vertical Control:

Vertical control for this project is based on Pima County benchmark designation MBP 78 Based on NAVD 88 DATUM having a elevation of 2505.59 feet. Station Mark is a 2" Brass Disk stamped PCHD 10/11/15/14 Located 14 South of the centerline of Valencia Road near Vivianna Road.

Horizontal Control:

The horizontal control for this project is based on existing survey control points as provided by Pima County Survey, and NGS. Pima County geodetic control point "HJ04" , and NGS Point "NN 100"
The grid coordinates used for "HJ04" are as follows
NAD 83(HARN92) NORTHING (Y) = 413,459.642
NAD 83(HARN92) EASTING (X) = 967,556.895
The grid coordinates used for "NN 100" are as follows
NAD 83(HARN92) NORTHING (Y) = 407,453.7090
NAD 83(HARN92) EASTING (X) = 916,548.7450
The Published Combined Factor for "HJ04" = 0.9998575910
Surface coordinates are derived by dividing the grid coordinates by 0.9998575910

Scales	Horiz. 1" = 600' Vert. 1" = NA	Sheet RW2 of RW19	Page 131 of 148

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc. 5210 East Williams Circle, Suite 530 Tucson, AZ 85711-4459 (520) 584-3600

OVERVIEW
RIGHT-OF-WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.pll

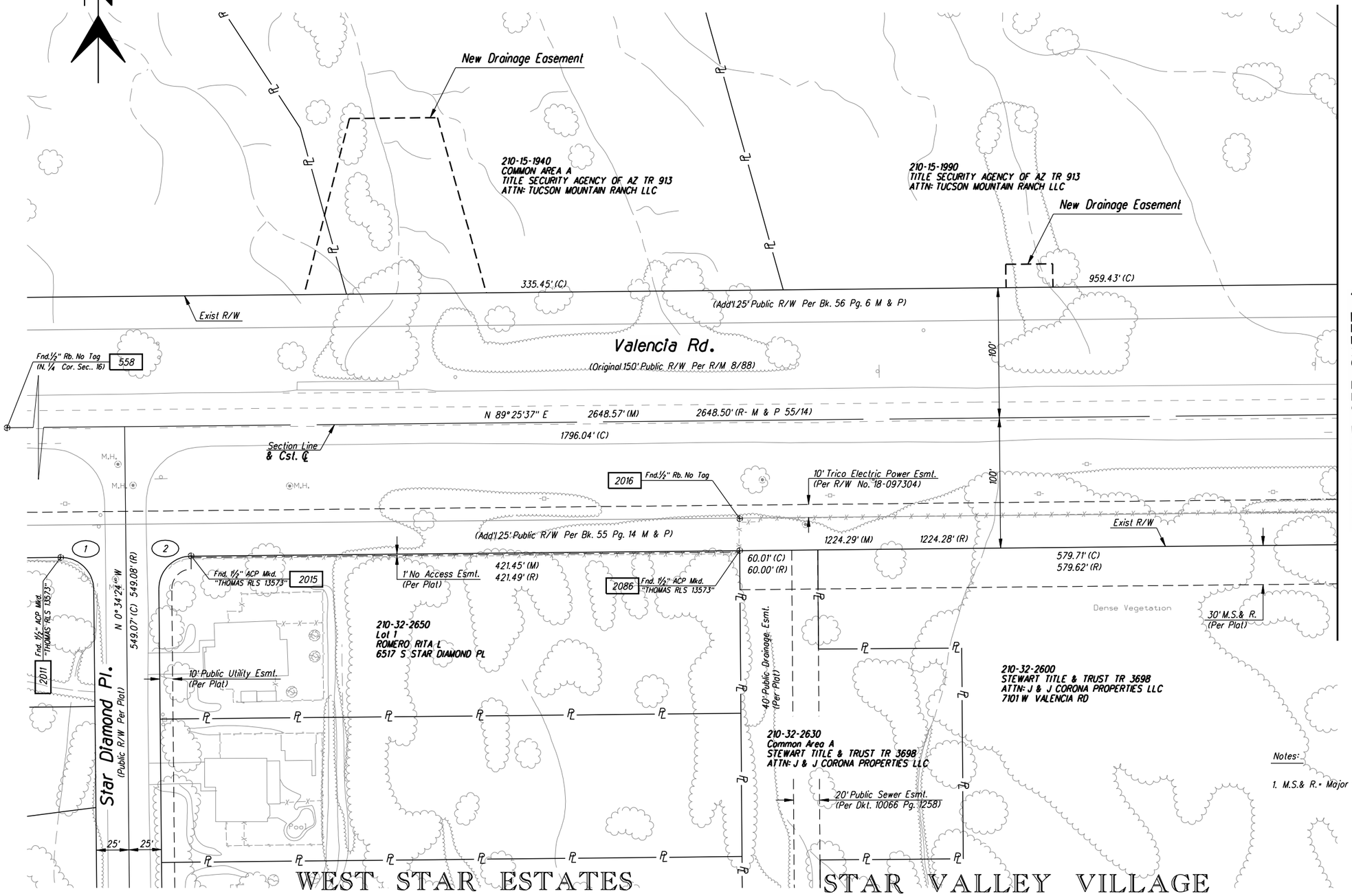
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18v-16.dgn
Model: 18V-16

Printed By: aledesma Date: 09\07\11 11:00:31 AM Print Scale: 1:1200

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

TUCSON MOUNTAIN RANCH
BOOK 56 PAGE 6 M & P



Curve Data

(1)

Δ = 90°00'00" (C&R)
R = 25.00' (C&R)
L = 39.27' (C)

(2)

Δ = 90°00'00" (C&R)
R = 25.00' (C&R)
L = 39.27' (C)

Notes:

1. M.S.& R.= Major Streets & Routes (Setback Zone)

No.	Revision Description	Engineer	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

STAGE II
SUBMITTAL
SEPTEMBER 2011
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CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40'	Sheet RW3 of RW19	Page 132 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

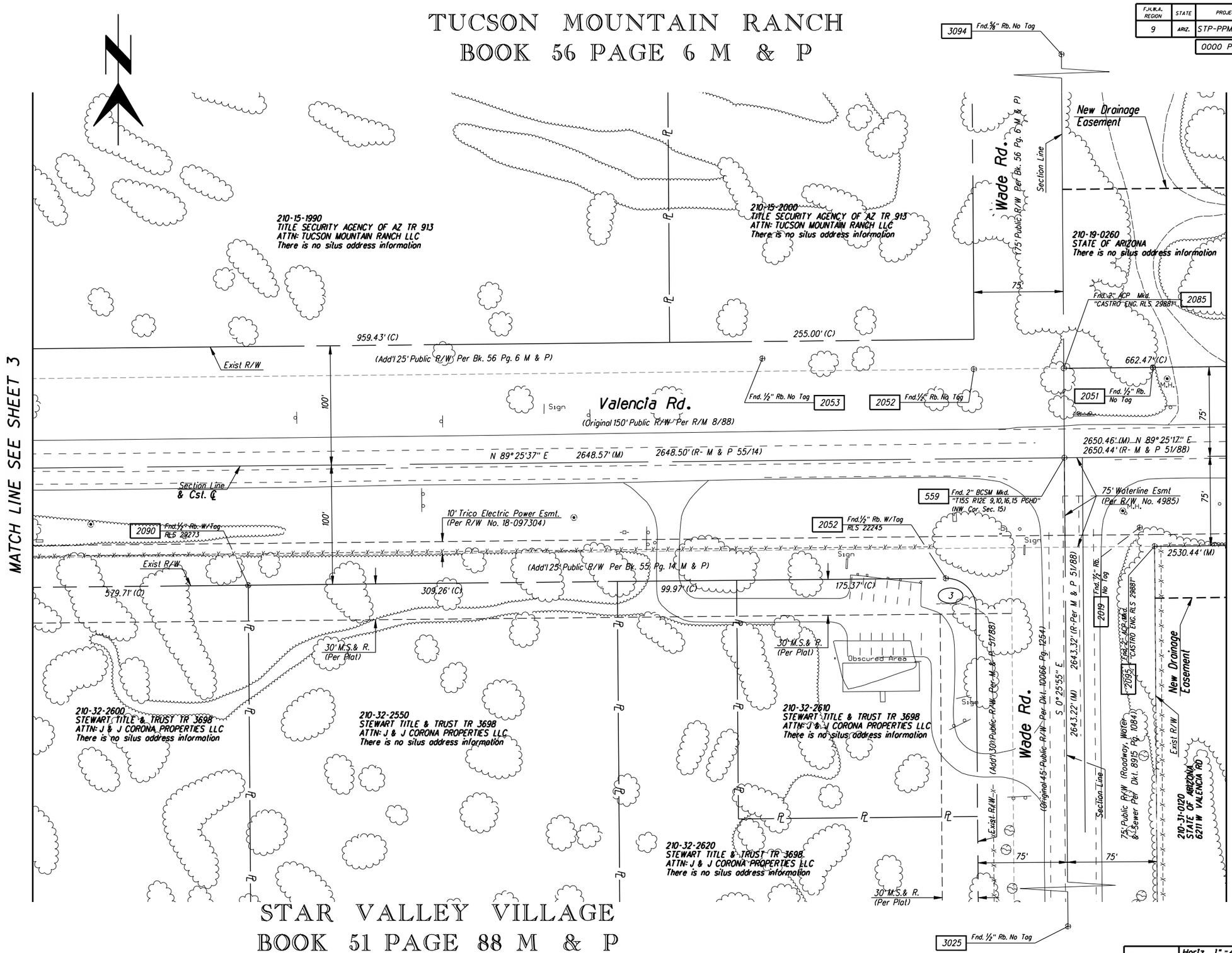
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-01.dgn
Model: 18V-01

Printed By: aledesma Date: 09\07\11 11:00:37 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Notes:

1. M.S.& R. = Major Streets & Routes (Setback Zone)

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
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CONSTRUCTION
OR RECORDING

Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

Pritscilla S. Cornelio, P.E., Director

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet RW4 of RW19	Page 133 of 148

TRACS No. SS975 01C

Pentable: 152226_PL01ORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

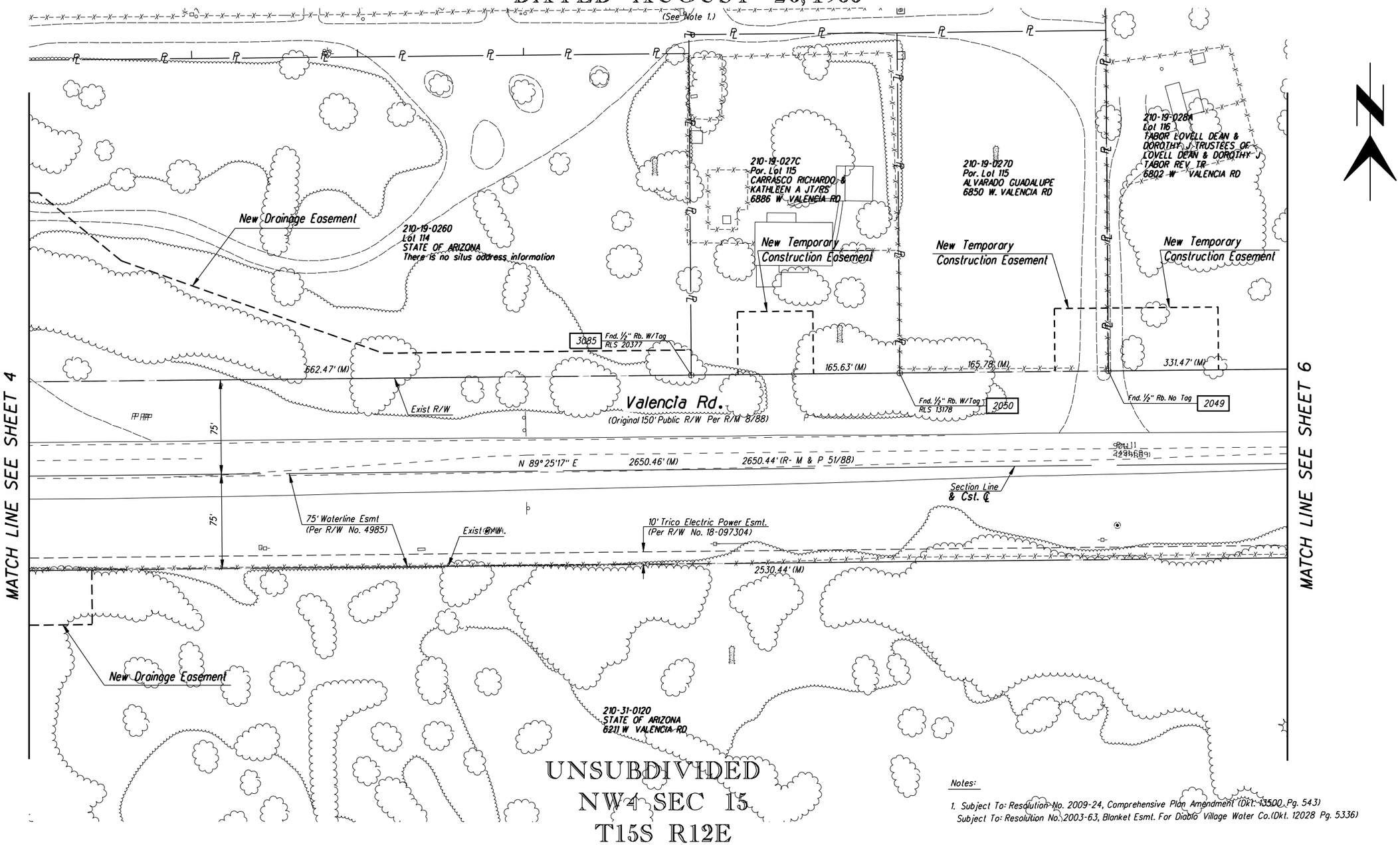
Project ID: 0000000000152226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-02.dgn
Model: 18V-02

Printed By: aledesma Date: 09\07\11 11:00:42 AM Print Scale: 1:80

BUREAU OF LAND MANAGEMENT
SUBDIVISION OF SECTION 10 T15S R12E
DATED AUGUST 26, 1953

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Notes:

1. Subject To: Resolution No. 2009-24, Comprehensive Plan Amendment (Dkt. 13500 Pg. 543)
Subject To: Resolution No. 2003-63, Blanket Esmt. For Diablo Village Water Co.(Dkt. 12028 Pg. 5336)

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

No.	Revision Description	Engineer	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Scales	Horiz. 1" = 40'	Sheet RW5 of RW19	Page 134 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_VBhalf_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

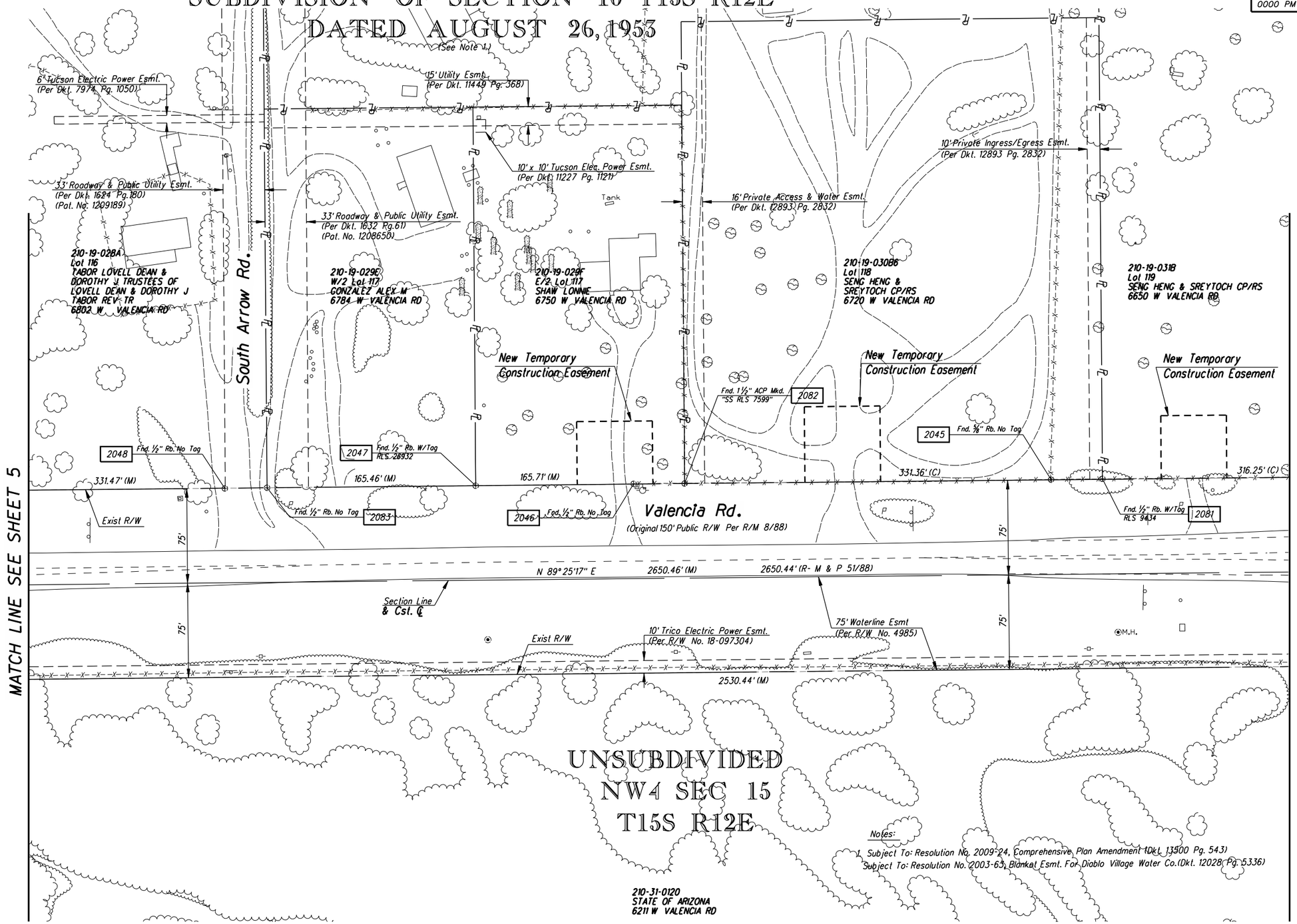
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-03.dgn
Model: 18V-03

Printed By: aledesma Date: 09\07\11 11:00:47 AM

Print Scale: 1:80

BUREAU OF LAND MANAGEMENT
SUBDIVISION OF SECTION 10 T15S R12E
DATED AUGUST 26, 1953

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Notes:

1. Subject To: Resolution No. 2009-24, Comprehensive Plan Amendment (Dkt. 13500 Pg. 543)
   Subject To: Resolution No. 2003-63, Blanket Esmt. For Diablo Village Water Co.(Dkt. 12028 Pg. 5336)

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

No.	Revision Description	Engineer	Date

Pristcilla S. Cornello, P.E., Director

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet RW6 of RW19	Page 135 of 148

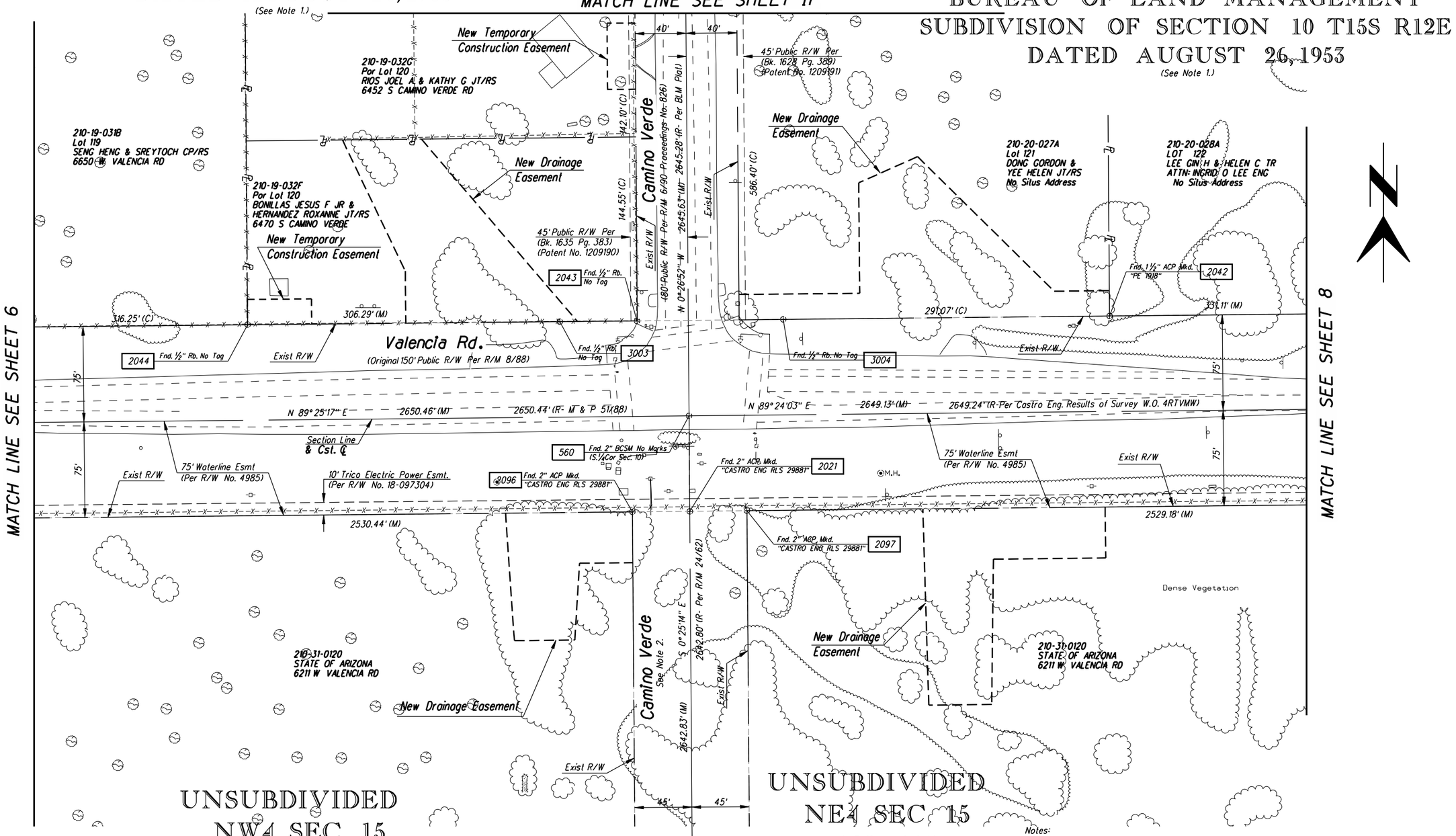
TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt
Project ID: 00000000015226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-04.dgn
Model: 18V-04
Printed By: aledesma Date: 09\07\11 11:00:52 AM
Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

BUREAU OF LAND MANAGEMENT SUBDIVISION OF SECTION 10 T15S R12E DATED AUGUST 26, 1953



BUREAU OF LAND MANAGEMENT SUBDIVISION OF SECTION 10 T15S R12E DATED AUGUST 26, 1953 (See Note 1.)

Notes:

1. Subject To: Resolution No. 2009-24, Comprehensive Plan Amendment (Dkt. 13500 Pg. 543)
   Subject To: Resolution No. 2003-63, Blanket Esmt. For Diablo Village Water Co.(Dkt. 12028 Pg. 5336)
2. (90' Public R/W Per R/M 24/62 Proceedings No. 1789 & Bk. 4139 Pg. 561 & State Land Department Lease No. 4932)

No.	Revision Description	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Engineer

Priscilla S. Cornelio, P.E., Director

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc. 5210 East Williams Circle, Suite 530 Tucson, AZ 85711-4459 (520) 584-3600

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet RW7 of RW19	Page 136 of 148

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

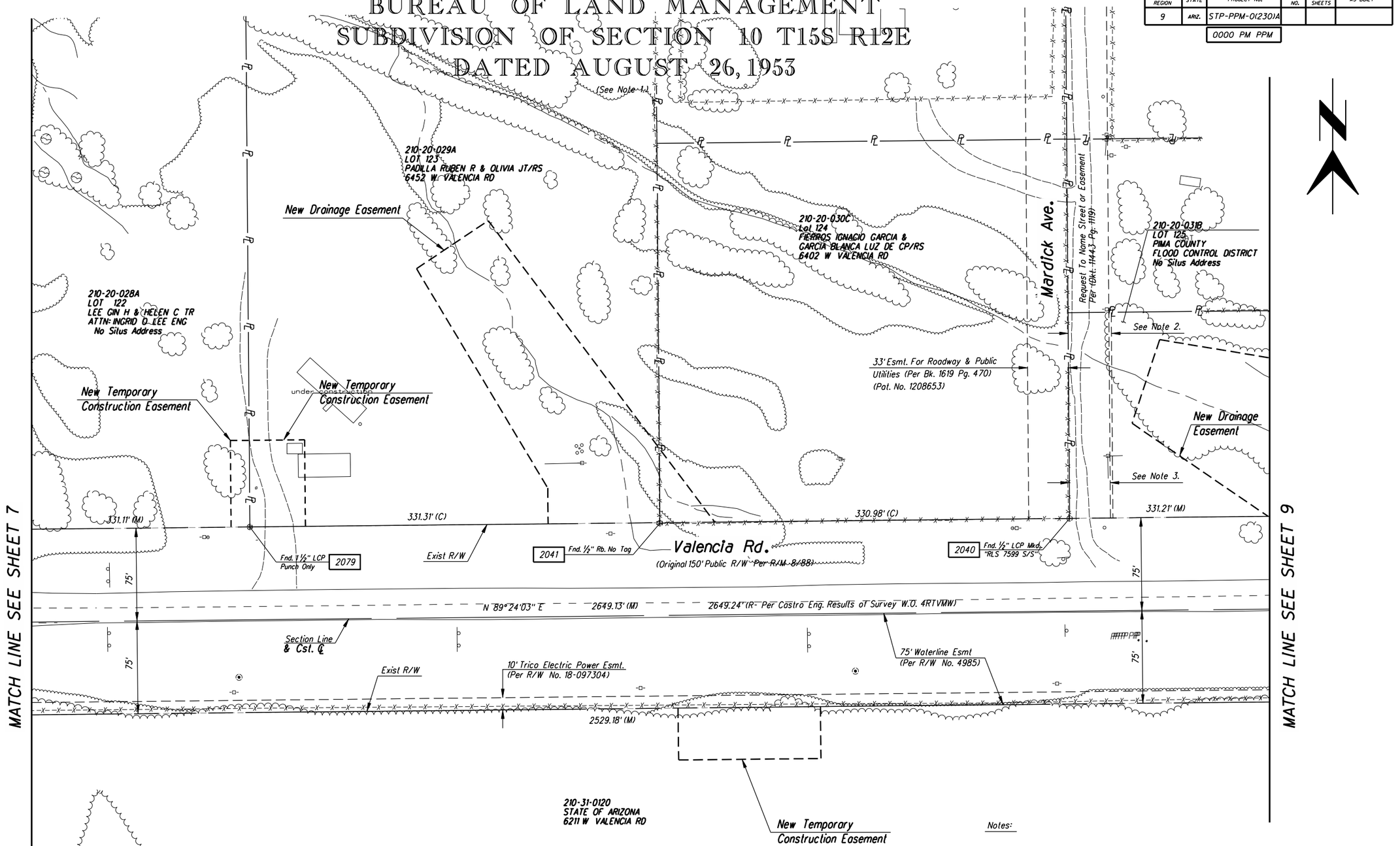
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-05.dgn
Model: 18V-05

Printed By: aledesma Date: 09\07\11 11:00:57 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

BUREAU OF LAND MANAGEMENT SUBDIVISION OF SECTION 10 T15S R12E DATED AUGUST 26, 1953



Notes:

1. Subject To: Resolution No. 2009-24, Comprehensive Plan Amendment (Dkt. 13500 Pg. 543)
   Subject To: Resolution No. 2003-63, Blanket Esmt. For Diablo Village Water Co.(Dkt. 12028 Pg. 5336)
2. 35' Non-Exclusive, Ingress\Egress Esmt. Per Dkt. 10298 Pg. 2276
3. 33' Roadway & Public Utility Esmt. Per Dkt. 1632 Pg. 62 & Dkt. 6251 Pg. 137 & Dkt. 6284 Pg. 218 (Pat. No. Illegible)

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Priscilla S. Cornelio, P.E., Director

Designed	JTS
Drawn	JTS
Checked	FDA
Proj. Engr.	RDB

No.	Revision Description	Engineer	Date

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
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OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Scales	Horiz. 1" = 40'	Sheet RW8 of RW19	Page 137 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pentable: 152226_PL01ORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

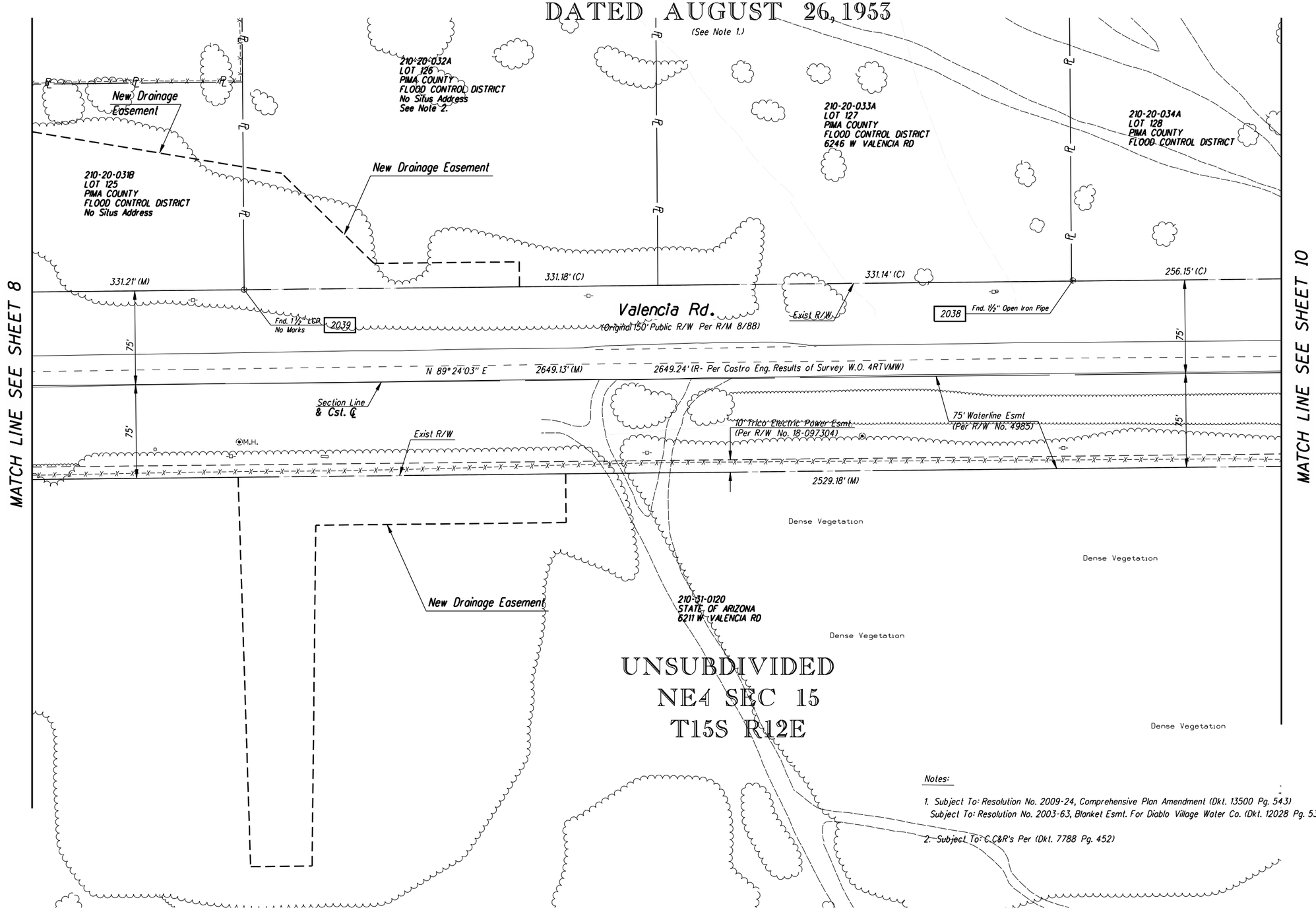
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-06.dgn
Model: 18V-06

Printed By: aledesma Date: 09\07\11 11:01:02 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

BUREAU OF LAND MANAGEMENT
SUBDIVISION OF SECTION 10 T15S R12E
DATED AUGUST 26, 1953



Notes:

1. Subject To: Resolution No. 2009-24, Comprehensive Plan Amendment (Dkt. 13500 Pg. 543)
   Subject To: Resolution No. 2003-63, Blanket Esmt. For Diablo Village Water Co. (Dkt. 12028 Pg. 5336)
2. Subject To: C.C&R's Per (Dkt. 7788 Pg. 452)

No.	Revision Description	Engineer	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40'	Sheet RW9 of RW19	Page 138 of 148
	Vert. 1" = NA		

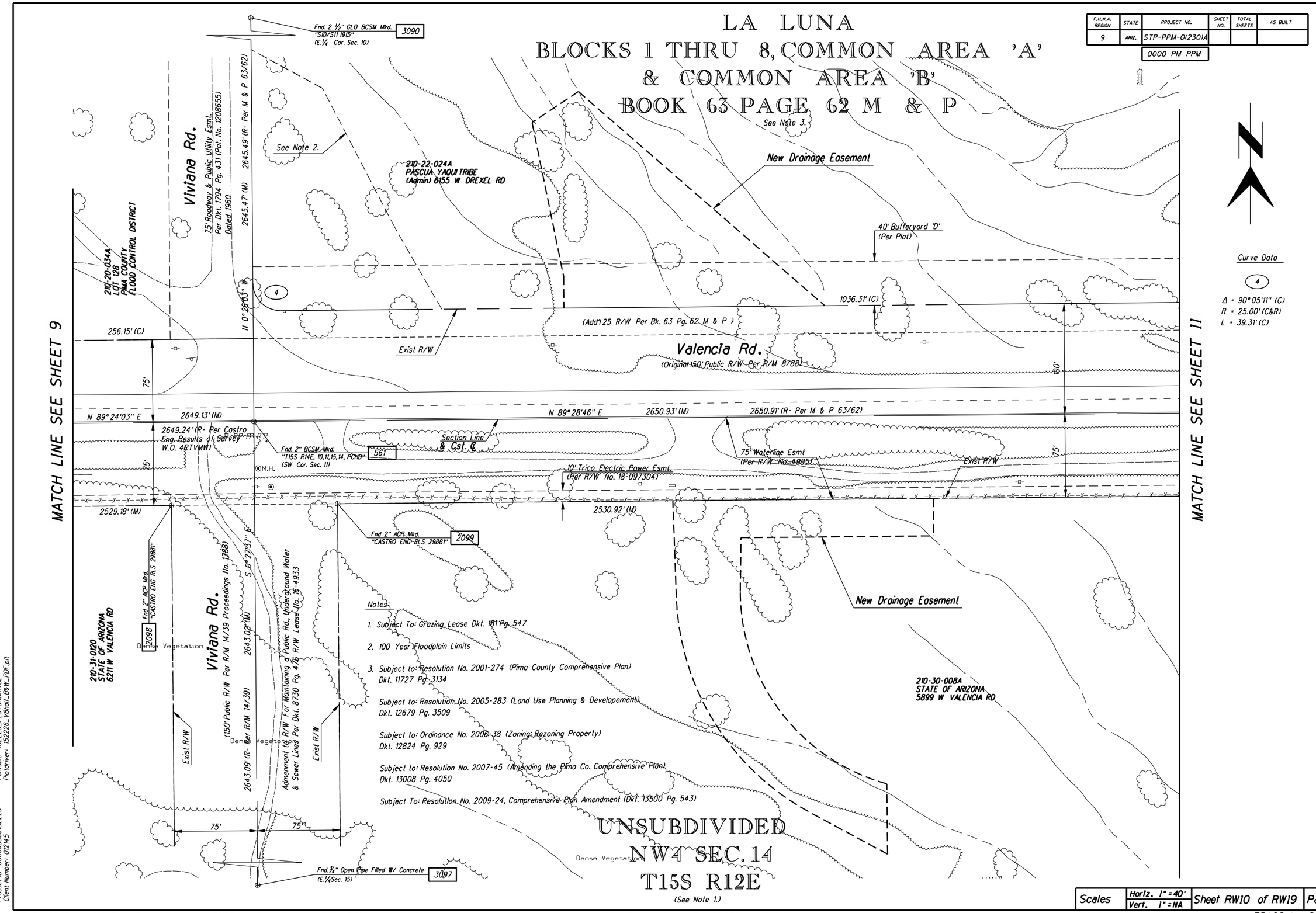
TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

LA LUNA
BLOCKS 1 THRU 8, COMMON AREA 'A' & COMMON AREA 'B'
BOOK 63 PAGE 62 M & P

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Curve Data

4

Δ = 90°05'11" (C)
R = 25.00' (C&R)
L = 39.31' (C)

No.	Revision Description	Engineer	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet RW10 of RW19	Page 139 of 148

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

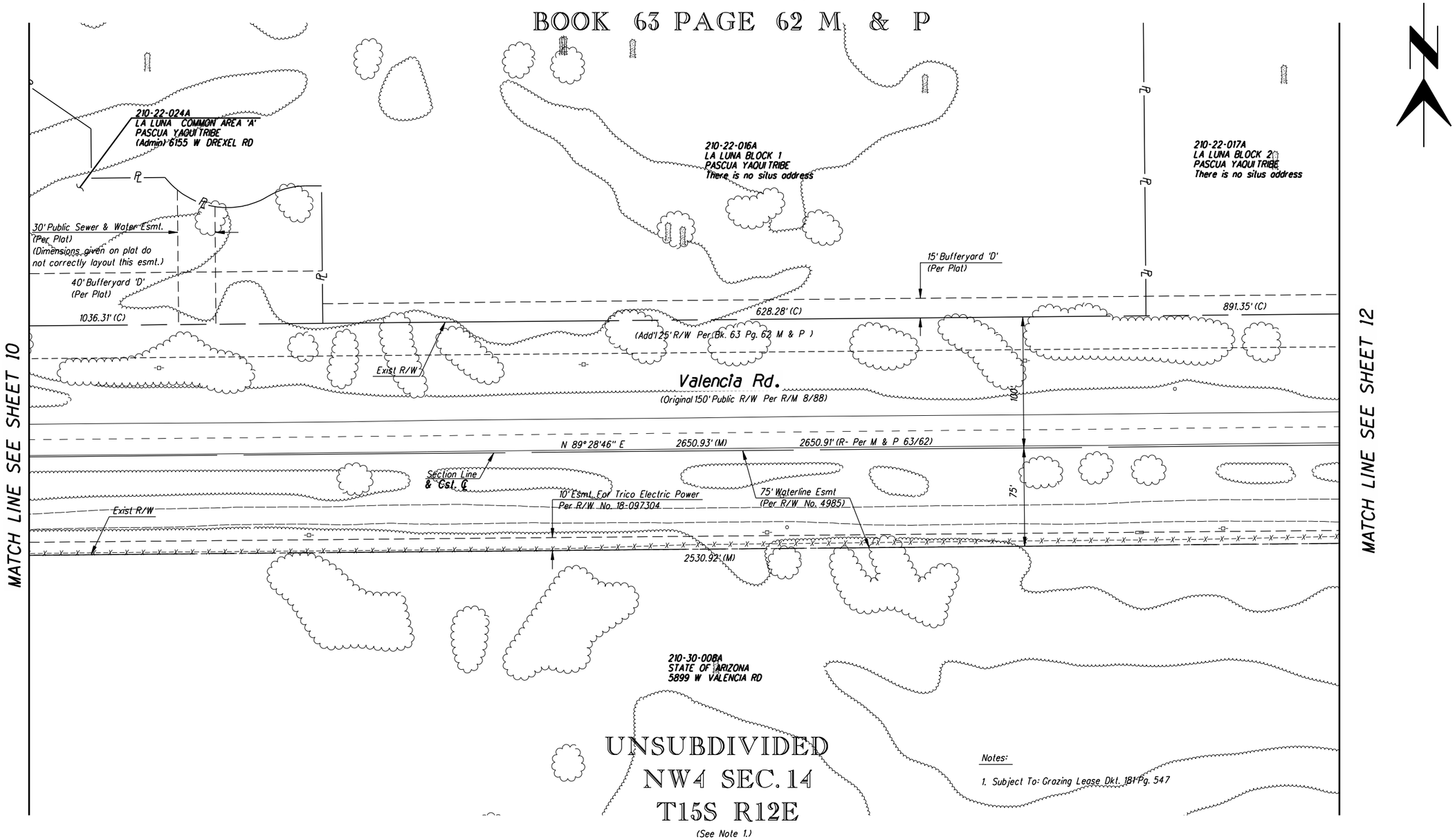
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-08.dgn
Model: 18V-08

Printed By: aledesma Date: 09\07\11 11:01:13 AM

Print Scale: 1:80

LA LUNA
BLOCKS 1 THRU 8, COMMON AREA 'A' & COMMON AREA 'B'
BOOK 63 PAGE 62 M & P

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Notes:

1. Subject To: Grazing Lease Dkt. 181 Pg. 547

Scales	Horiz. 1" = 40'	Sheet RW11 of RW19	Page 140 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Pima County Department of Transportation

Priscilla S. Cornello, P.E., Director

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

	Date
Designed	04/2011
Drawn	04/2011
Checked	04/2011
Proj. Engr.	04/2011

No.	Revision Description	Engineer	Date

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8Half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

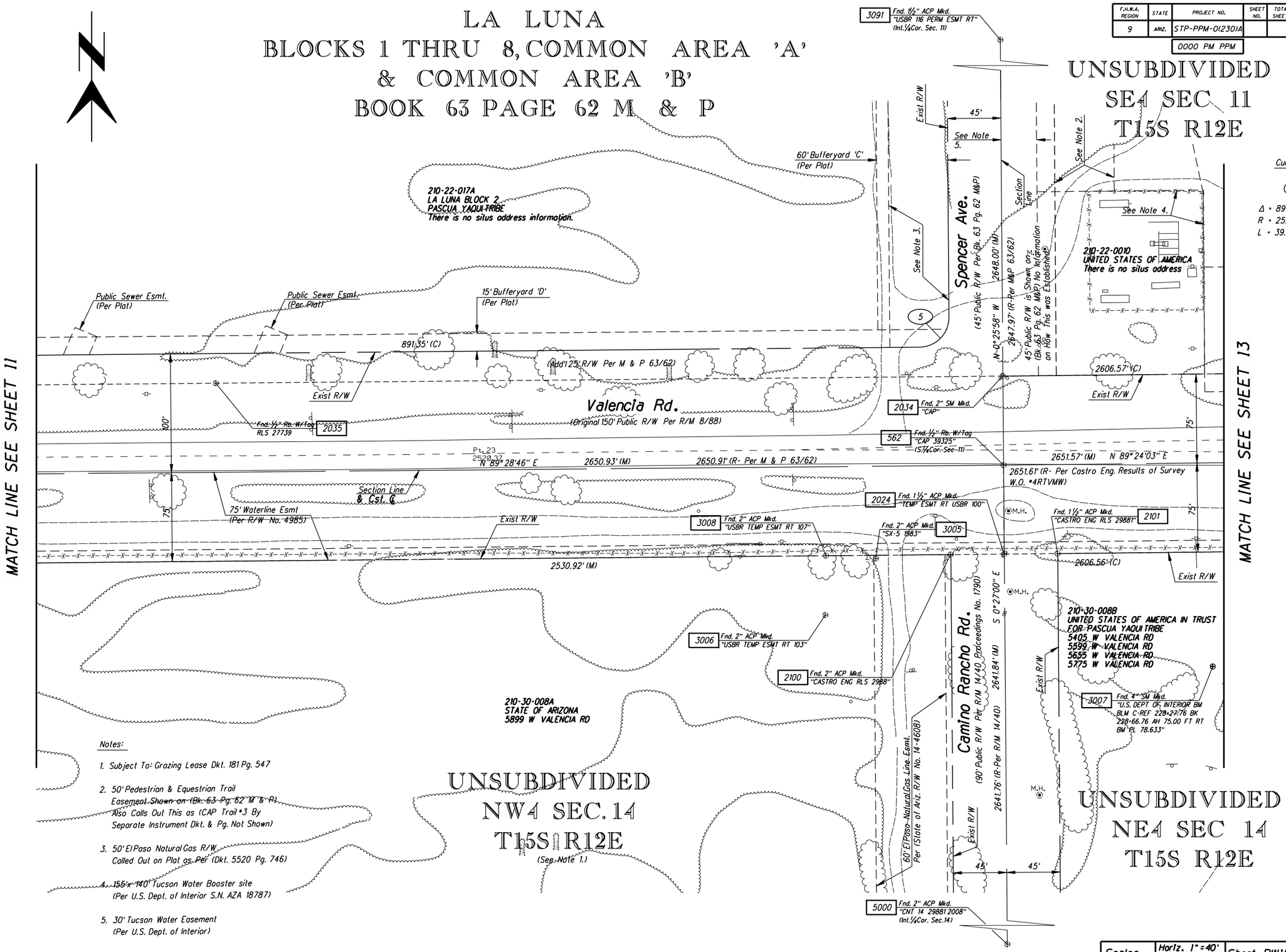
ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-09.dgn
Model: 18V-09

Printed By: aledesma Date: 09\07\11 11:01:18 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

LA LUNA
BLOCKS 1 THRU 8, COMMON AREA 'A' & COMMON AREA 'B'
BOOK 63 PAGE 62 M & P



Notes:

1. Subject To: Grazing Lease Dkt. 181 Pg. 547
2. 50' Pedestrian & Equestrian Trail Easement Shown on (Bk. 63 Pg. 62 M & P). Also Calls Out This as (CAP Trail #3 By Separate Instrument Dkt. & Pg. Not Shown)
3. 50' El Paso Natural Gas R/W Called Out on Plat as Per (Dkt. 5520 Pg. 746)
4. 155' x 140' Tucson Water Booster site (Per U.S. Dept. of Interior S.N. AZA 18787)
5. 30' Tucson Water Easement (Per U.S. Dept. of Interior)

Date	Designed	Drawn	Checked	Proj. Engr.
04/2011	JTS	JTS	FDA	RDB
04/2011				
04/2011				
04/2011				

No.	Revision Description	Engineer	Date

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc. 5210 East Williams Circle, Suite 530 Tucson, AZ 85711-4459 (520) 584-3600

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet RW12 of RW19	Page 141 of 148

TRACS No. SS975 01C

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

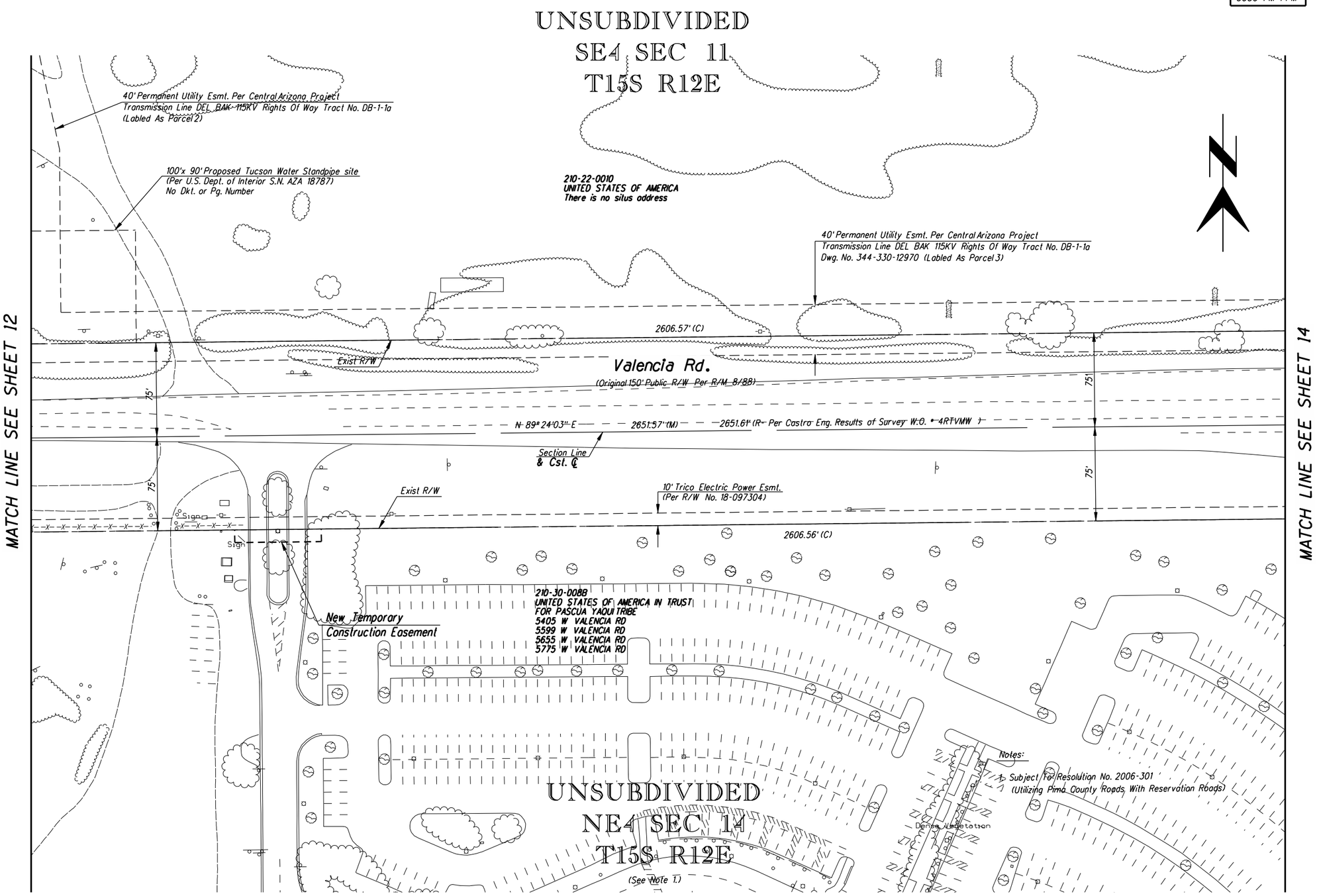
Project ID: 0000000015226
Client Number: 012145

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-10.dgn
Model: 18V-10

Printed By: aledesma Date: 09\07\11 11:01:23 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

Priscilla S. Cornello, P.E., Director

No.	Revision Description	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Engineer

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40'	Sheet RW13 of RW19	Page 142 of 148
	Vert. 1" = NA		

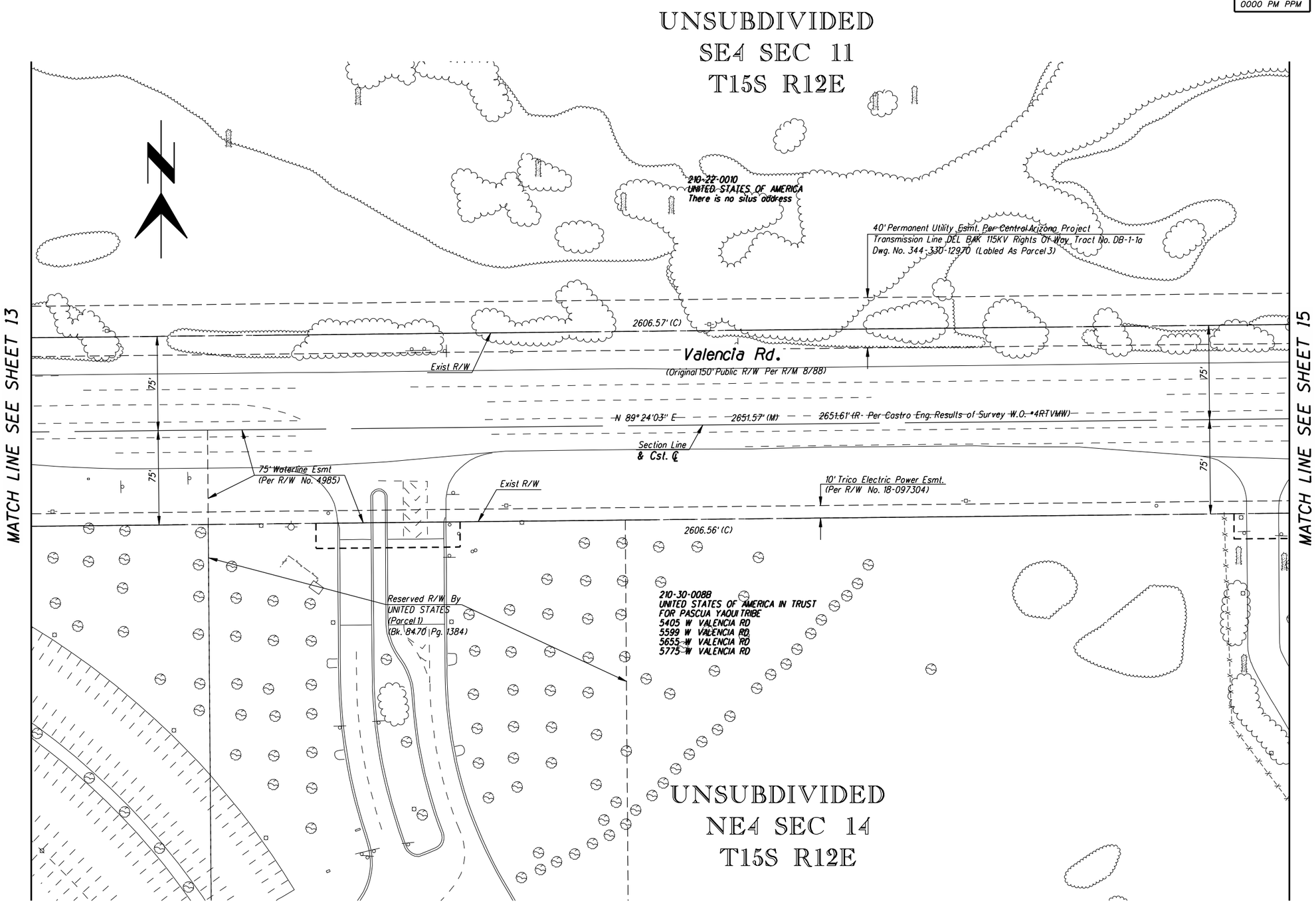
TRACS No. SS975 01C

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-11.dgn
Model: 18V-11

Printed By: aledesma Date: 09\07\11 11:01:28 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000015222 6
Client Number: 012145

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

STAGE II
SUBMITTAL
SEPTEMBER 2011
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

No.	Revision Description	Engineer	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

Scales	Horiz. 1"=40' Vert. 1"=NA	Sheet RW14 of RW19	Page 143 of 148

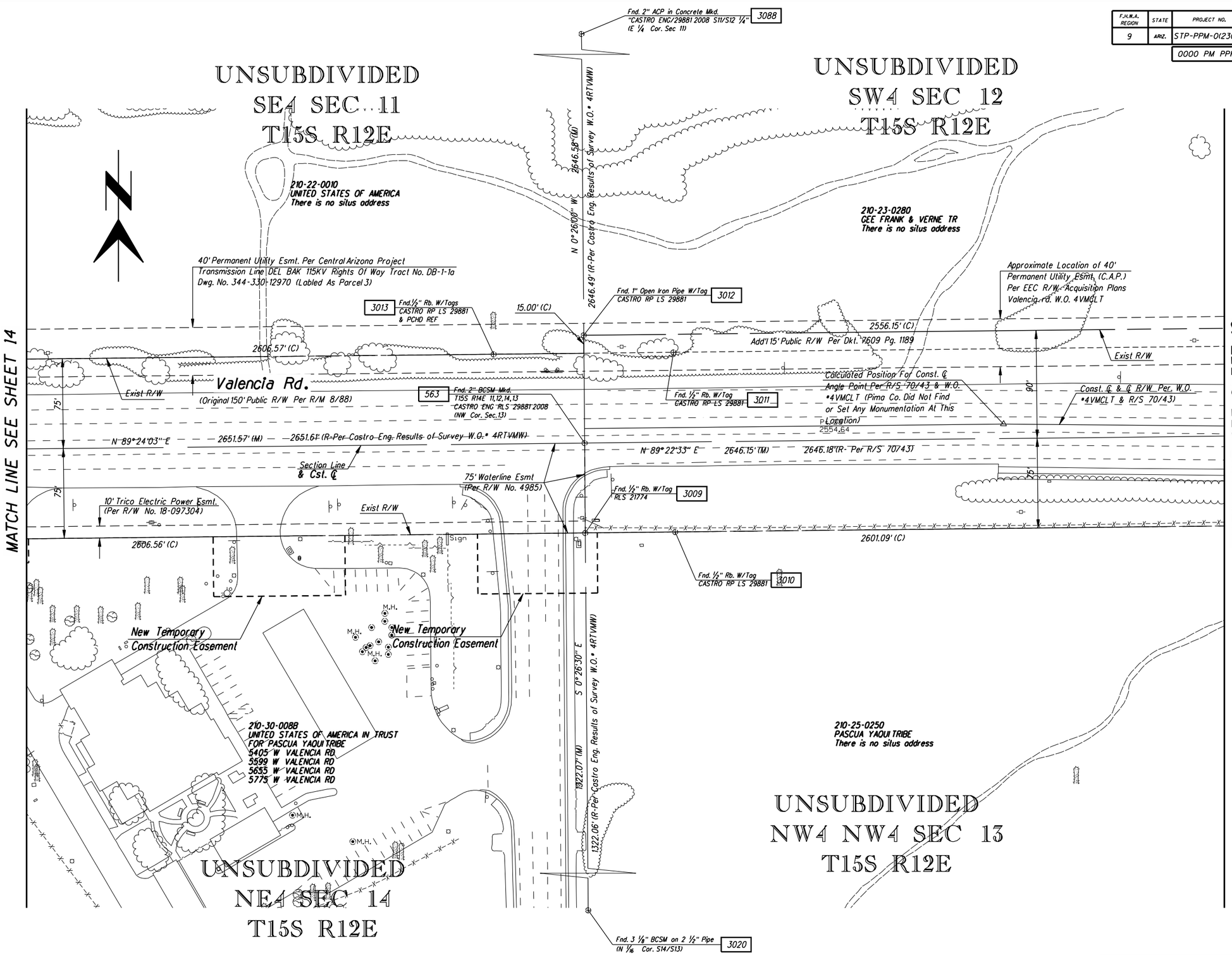
TRACS No. SS975 01C

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-12.dgn
Model: 18V-12

Printed By: aledesma Date: 09\07\11 11:01:32 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Pritscilla S. Cornello, P.E., Director

No.	Revision Description	Date

		Date
Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Engineer

STAGE II SUBMITTAL SEPTEMBER 2011 PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

HDR Engineering, Inc.
5210 East Williams Circle, Suite 530
Tucson, AZ 85711-4459
(520) 584-3600

Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

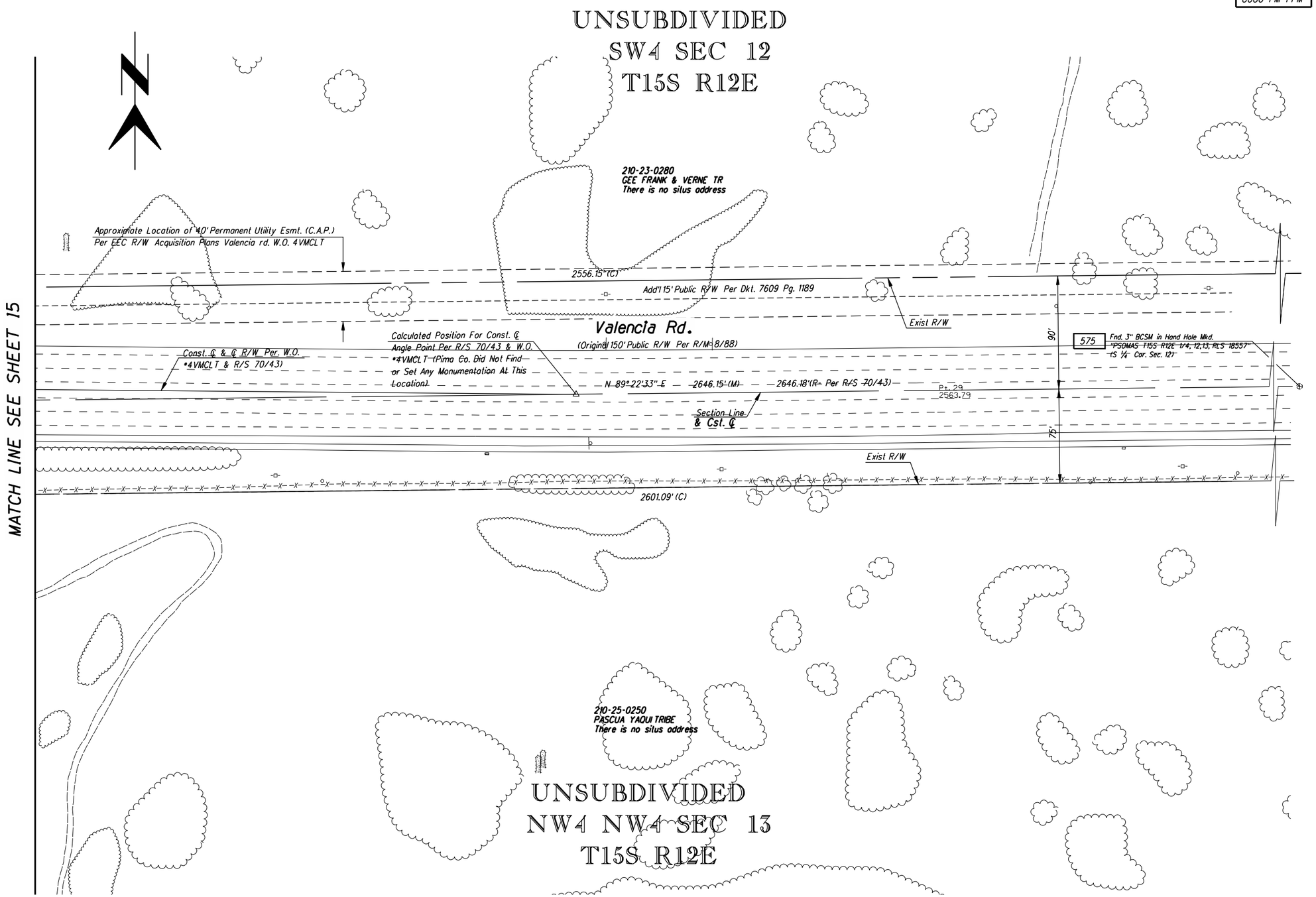
Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet RW15 of RW19	Page 144 of 148

TRACS No. SS975 01C

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000015226
Client Number: 012145

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
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Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

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RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40'	Sheet RW16 of RW19	Page 145 of 148
	Vert. 1" = NA		

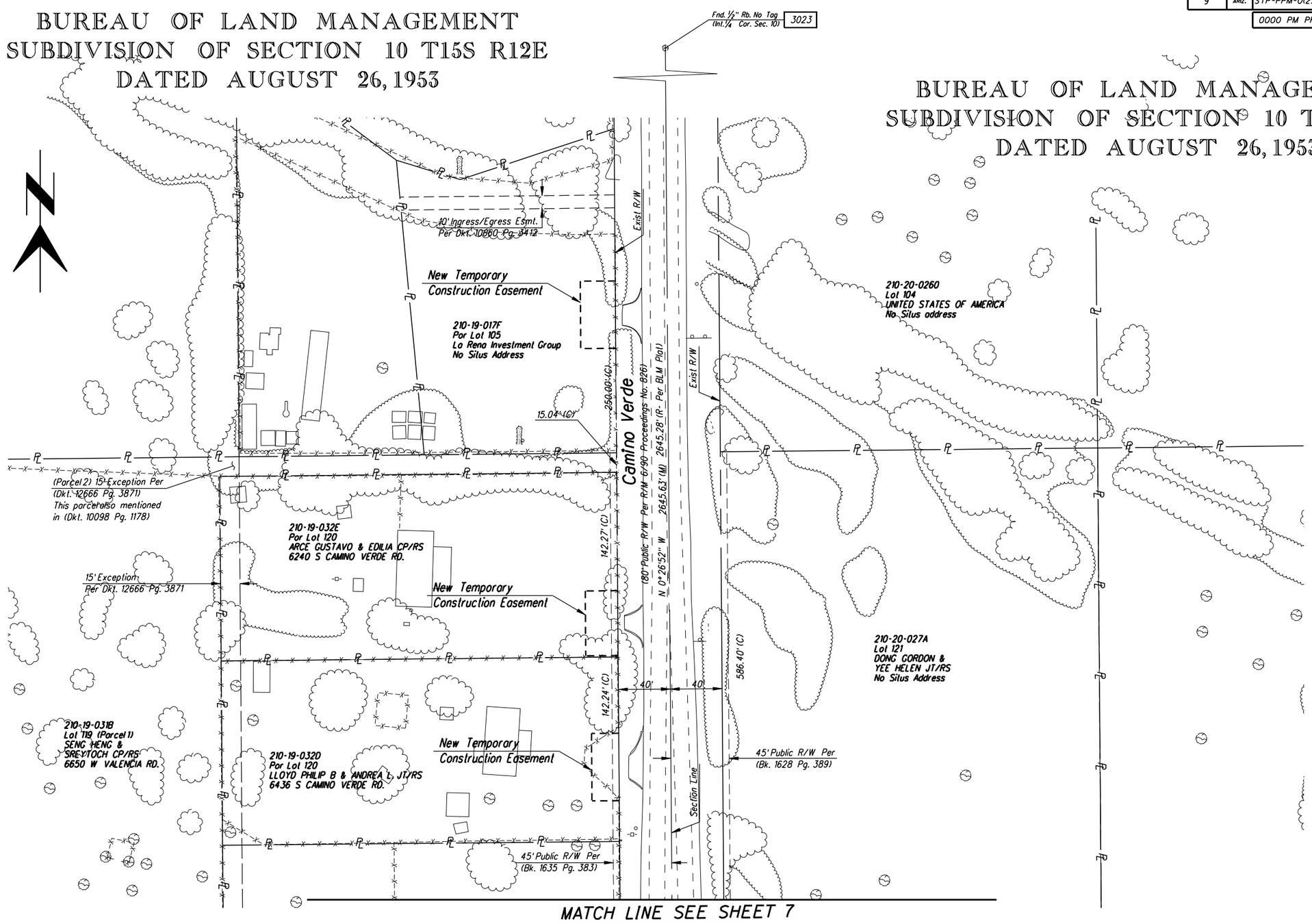
TRACS No. SS975 01C

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-14.dgn
Model: 18V-14

Printed By: aledesma Date: 09\07\11 11:01:42 AM

Print Scale: 1:80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			



No.	Revision Description	Engineer	Date

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Designed	JTS	04/2011
Drawn	JTS	04/2011
Checked	FDA	04/2011
Proj. Engr.	RDB	04/2011

Priscilla S. Cornelio, P.E., Director

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Pima County Department of Transportation

RIGHT OF WAY PLANS
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Project ID: 0000000000152226
Client Number: 012145

Pentable: 152226_PL01ORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Scales	Horiz. 1" = 40'	Sheet RW17 of RW19	Page 146 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

ProjectWise Directory: Pima_County_Dept_of_Transportation\PCDOT_Valencia_Mtn_Eagle_Mark\13.00_CAD\Right of Way\18V-19.dgn
Model: 18V-19

Printed By: aledesma Date: 09\07\11 11:01:46 AM

Print Scale: 1:80

PARCEL	PIMA CO. TAX ID NO.	OWNERS NAME	GROSS AREA	TAKE (TYPE)	NET AREA

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Priscilla S. Cornello, P.E., Director

No.	Revision Description	Engineer	Date

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Pima County Department of Transportation

AREA TABLE
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Pentable: 152226_PLOTORDR.TBL
Plotdriver: 152226_V8half_B&W_PDF.plt

Project ID: 0000000000152226
Client Number: 012145

Scales	Horiz. 1" =	Sheet RW18 of RW19	Page 147 of 148
	Vert. 1" = NA		

TRACS No. SS975 01C

Station And Offset Per Valencia Road Construction Centerline

POINT NO.	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	STP-PPM-0(230)A			
		0000 PM PPM			

Priscilla S. Cornello, P.E., Director

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COORDINATE TABLE
VALENCIA ROAD
WADE ROAD TO MARK ROAD
PROJECT NO. 4RTVMW

Scales	Horiz. 1" = 40' Vert. 1" = NA	Sheet RW19 of RW19	Page 148 of 148

TRACS No. SS975 01C