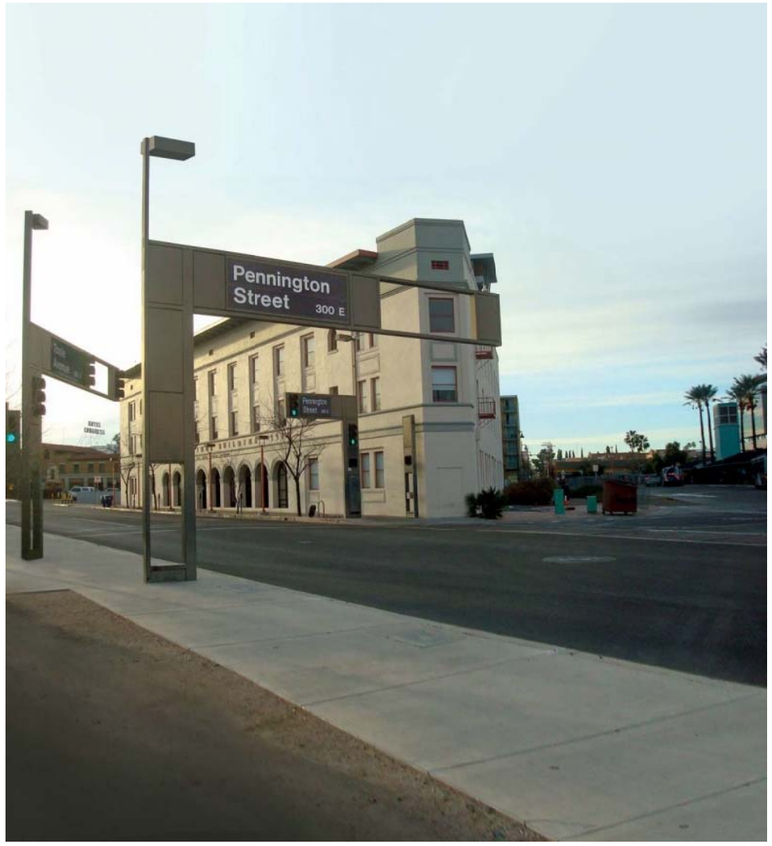
DOWNTOWN INTERMODAL CENTER (DIMC)
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS



Plan No. I-2012-009

Final Design Concept Report
APPENDIX C – 30% CONCEPT PLANS

May 2013

Submitted to

Submitted by

DOWNTOWN INTERMODAL CENTER (DIMC)

PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

6TH AVENUE FROM 7TH STREET TO BROADWAY BOULEVARD

PENNINGTON STREET FROM 6TH AVENUE TO TOOLE AVENUE

TOOLE AVENUE FROM 6TH AVENUE TO PENNINGTON STREET

COT PLAN NO. I-2012-009

FINAL

DESIGN CONCEPT REPORT

APPENDIX C – 30% CONCEPT PLANS

Prepared for:

CITY OF TUCSON DEPARTMENT OF TRANSPORTATION

Prepared by:

Parsons Brinckerhoff

177 North Church Avenue, Suite 610

Tucson, Arizona 85701

(520) 882-6424

May 2013

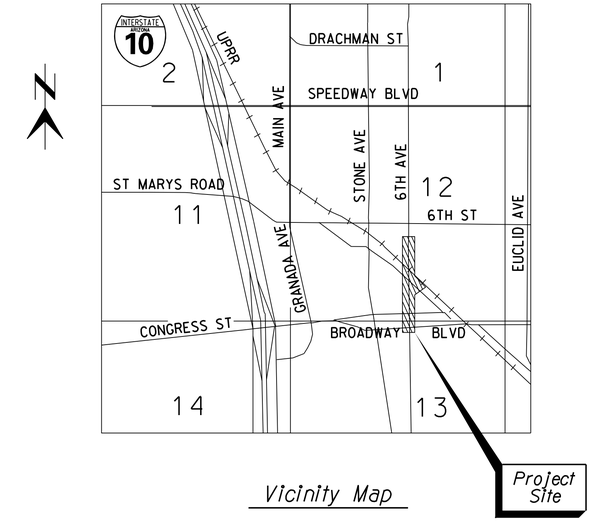
PARSONS BRINCKERHOFF

CITY OF TUCSON

DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

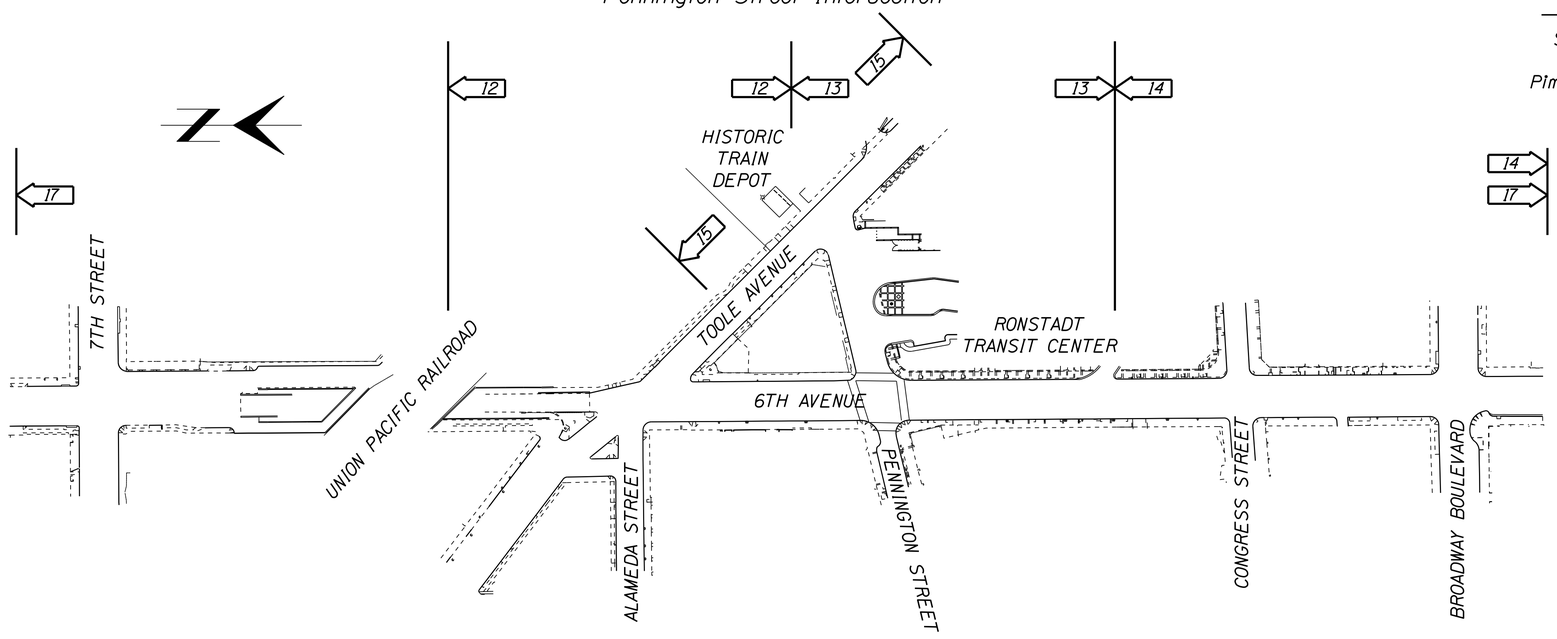
PLAN NO I-2012-009

Project Begins Approximately 100 Feet North of 7th Street and Extends Approx. 2100 Feet to the South Limits of Work. Begin Approx. 100 Feet West of 6th Avenue on Toole Avenue and Extend Approx. 950 Feet to East. Improvements Include Signing, Pavement Markings, and Traffic Signal Upgrades on 6th Avenue and Roadway Reconstruction of 6th Avenue from Toole Avenue to Congress Street and the Toole Avenue/ Pennington Street Intersection



Vicinity Map

Sections 12, 13
T14S, R13E
Pima County, Arizona
3" =1 Mile



Project Map

Sheet Index

No.	Description
1	Master Cover Sheet
2	General Notes
3	Design Sheet
4-5	Typical Sections
6	Survey Control Sheet
7	Geometric Control Sheet
8-11	Demolition Plan
12-15	Roadway Plan
16-18	Pavement Marking Plans
19-22	Signing Plans
23-33	Traffic Signal Plans
34	Planting Plan
35	Hardscape Plan
36	Water Modification Plan
37	Right-of-Way Plan

Two working days before you dig.
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Blue Stake Center
CALL COLLECT

MASTER COVER SHEET

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

CITY OF TUCSON

DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

PRELIMINARY
30% Plans
NOT FOR CONSTRUCTION OR RECORDING

Approvals	Signatory	Date
ENGINEERING ADMINISTRATOR		
TRAFFIC PLANNING & DESIGN ADMINISTRATOR		
LANDSCAPE ARCHITECT		

Approved _____ 20 __
TRANSPORTATION DIRECTOR

1 OF 37

REF. _____ SCALE: As Noted

DRWN. BY CPG 20 13 DSGN. BY J. Vaskovic 20 13 CHKD. BY J. Koesters 20 13 PLAN NO. I-2012-009

PARSONS BRINCKERHOFF
177 N Church Suite 610
Tucson, Arizona 85701
(520-882-6424)

NO.	DATE	REVISION	BY	CHKD.	APPR.

Mon 20 May 2013, 16:37:21 T:\11536c_DIMC\DCR\Data\gface.dgn

GENERAL NOTES

1. All Stationing is along Section Line representing Construction Centerline.
2. All Construction Shall Conform to the PC/COT Standard Specifications and Details (2003) except as Modified in the Contract Specifications or Plans.
3. Construction Shall Comply with City of Tucson Native Plant Preservation Ordinance (NPPO). Thirty Days Prior to the Start of Construction, Native Plants to be Transplanted Shall be Boxed.
4. The Contractor Shall Verify Existence of all Utilities by Calling Blue Stake at 800-782-5348, 48 Hours Prior to Construction. The Plan Location of Utilities Being Shown are Approximate.
5. Existing Overhead Electric, Telephone and Cable T.V. Utilities and Underground Electric, Gas, T.V. and Telephone Installations will be Moved by Others.
6. It is the Contractor's Responsibility to Adjust all Sanitary Sewer Manhole Structures to Finished Grade. All Ring and Cover Adjustments are to be in Accordance with PC/COT Standard Details for Public Improvements WWM304, WWM305 or WWM306 (As Applicable) and WWM307.
7. Any Landscaping Located within Ten Feet (10') Horizontal of Public Sanitary Sewer Mains and Manholes Shall be in Accordance with the Planting Guidlines Contained within PC/COT Std Detail WWM A-4.
8. All Water Valve Boxes and Covers Shall be Adjusted to Finished Pavement Grade, Adjustment Shall Conform with Tucson Water Standard Detail 300.
9. Survey Monuments Shall be Furnished and Placed by the Contractor per PC/COT Std. Dtl. 103 with Frame and Cover.
10. Changes in Location or Length of Depressed Curbs may be Made In Accordance with PC/COT Standard Specifications or by the Engineer.
11. Radii are Measured to Front Face of Curb per COT Standards.
12. The Project Roadway Shall be Striped in Accordance with the Current Edition of PC/COT Pavement Marking Design Manual and as Noted Herein. Striping for the Project Shall be Part of This Contract.
13. Dimensions Shall not be Scaled from Drawings.
14. Unless Otherwise Noted, Salvaged Items Shall be Delivered to the COT Service Center at 4004 S. Park Ave. The Contractor Shall Coordinate the Delivery with the Appropriate Agency.
15. Weekly Construction Meetings will be Open to the Public.
16. Contractor shall place Irrigation and Electric Sleeves Before AC Is Placed.

ABBREVIATIONS

AB	Aggregate Base	IP	Iron Pin
ABC	Aggregate Base Course	L	Length
AC	Asphaltic Concrete	LT	Left
ADOT	Arizona Department of Transportation	M&P	Maps and Plats
ADT	Average Daily Traffic	(M)	Measured
ARAC	Asphaltic Concrete (Asphalt-Rubber)	NB	North Bound
BCR	Begin Curb Return	NO	Number
BCSM	Brass Cap Survey Monument	NTS	Not to Scale
Bk	Book	PC	Point of Curvature
BVC	Begin Vertical Curve	PC/COT	Pima County/City of Tucson
℄	Centerline	PCDOT	Pima County Dept. of Transp.
(C)	Calculated	PCRWRD	Pima County Regional Wastewater Reclaimation Department
C.O.	Curb Opening		
CONC	Concrete		
CONST	Construction	PG	Page
CONT	Control	PT	Point of Tangency
COR	Corner	PVI	Point of Vertical Intersection
CORR	Correction Factor	Pvmt	Pavement
COT	City Of Tucson	R	Radius
CY	Cubic Yard	RCBC	Reinforced Concrete Box Culvert
DG	Decomposed Granite		
DKT	Docket	RCP	Reinforced Concrete Pipe
DTL	Detail	R/W	Right of Way
DWY	Driveway	RT	Right
EA	Each	SB	South Bound
EB	East Bound	SEC	Section
ECR	End Curb Return	S	Section Line
EG	Existing Grade	Sta	Station
Elev	Elevation	SD	Storm Drain
EP	Edge of Pavement	SWPPP	Storm Water Pollution Prevention Plan
ESMT	Easement		
EVC	End Vertical Curve	T	Tangent
Exst	Existing	TCE	Temporary Const. Easement
FG	Finished Grade	TEP	Tucson Electric Power
FD	Found	Typ	Typical
FT	Feet	UTIL	Utility
G	Grade	VC	Vertical Curve
GU	Gutter	WB	West Bound
H	Height	WV	Water Valve

LEGEND

Exist		New	Exist		New
FH	Fire Hydrant			Right-of-Way	
	Sign			Centerline	
W	Water Meter	W	PL	Property Line	
	Water Valve			Barricade Railing	
	Irrigation Valve			Edge of Pavement	
	Manhole			Easement Boundary Line	
	Bollard			Wall	
	Utility Pole			Sub Basin Delination	
	Survey Monument		S	Sanitary Sewer	S
	Tree		T	Underground Phone Line	
	Benchmark		SD	Storm Drain	
	Traffic Signal Pole		UGE	Underground Power	
	Street Light		OP	Overhead Power	
	Light on Pole		G	Gas	
	Pedestrian Signal Head		W	Water Line	
	Pull Box 3-1/2"			Sight Triangle	
	Pull Box No. 5			Future Edge of Roadway/Sidewalk	
	Pull Box No. 7			Drainage Flow	
	Pull Box No. 7 w/Ext			Removal Limits	
	Control Cab. (w/Meter)			Concrete	
	Conduit & Wire				
	Limits of Pavement Removal				
	Limits of New Pavement				

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NO.	DATE	REVISION	BY	CHKD.	APPR.

GENERAL NOTES

PRELIMINARY
30% Plans
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No.	SCALE:
DSGN. BY J Vaskovic	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

DESIGN DATA

Design Speed			Posted Speed		
6th Ave	=	30 MPH	6th Ave	=	25 MPH
Toole Ave	=	30 MPH	Toole Ave	=	25 MPH
Pennington St	=	30 MPH	Pennington St	=	25 MPH

Traffic Volumes

6th Ave

2010 ADT =	5,400	7th St-Congress St
2010 ADT =	10,000	Congress St-Broadway Blvd
2040 ADT =	11,000	6th St-Toole Ave
2040 ADT =	15,000	Toole Ave-Pennington St
2040 ADT =	8,000	Pennington St-Congress St
2040 ADT =	11,000	Congress St-Broadway Blvd

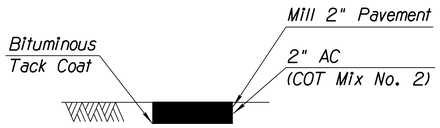
Toole Avenue

2010 ADT =	8,000	6th Ave-Pennington St
2040 ADT =	7,000	6th Ave-Pennington St

Pennington St

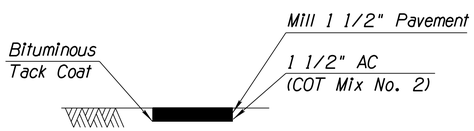
2010 ADT =	3,000	6th Ave-Toole Ave
2040 ADT =	2,000	6th Ave-Toole Ave

PROJECT LENGTH SUMMARY		
ROADWAY	LIMITS	LENGTH
6th Ave	Sta 94+00 – Sta 115+00	2100 FT=0.40 Mile
Toole Ave	Sta 33+50 – Sta 34+18	68 FT=0.01 Mile
Toole Ave	Sta 50+00 – Sta 54+30	430 FT=0.08 Mile
Pennington St	Sta 63+08 – Sta 66+35	327 FT=0.06 Mile
	Total	2925 FT=0.55 Mile



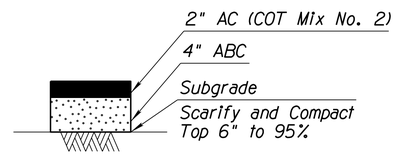
Total Thickness = 2"
6th Avenue

PAVEMENT STRUCTURAL SECTION NO. 1
NTS



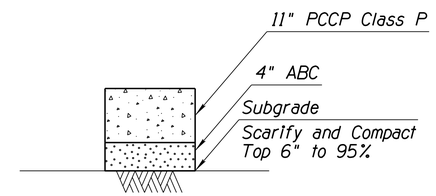
Total Thickness = 1 1/2"
Toole Avenue
Alameda Street

PAVEMENT STRUCTURAL SECTION NO. 2
NTS



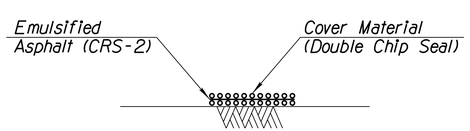
Total Thickness = 6"
Parking Lot

PAVEMENT STRUCTURAL SECTION NO. 3
NTS



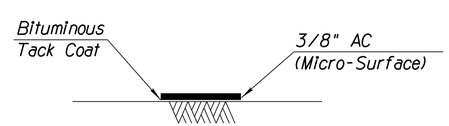
Total Thickness = 15"
Pennington Street

PAVEMENT STRUCTURAL SECTION NO. 4
NTS



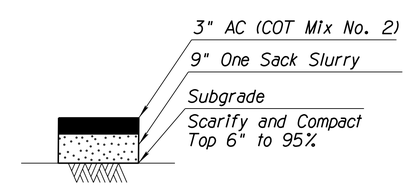
Historic Train Depot Parking Lot

PAVEMENT STRUCTURAL SECTION NO. 5
NTS



6th Avenue - Congress Street to Broadway Boulevard

PAVEMENT STRUCTURAL SECTION NO. 6
NTS



Total Thickness = 12"
Adjacent to Curb Replacement

PAVEMENT STRUCTURAL SECTION NO. 7
NTS

DESIGN SHEET

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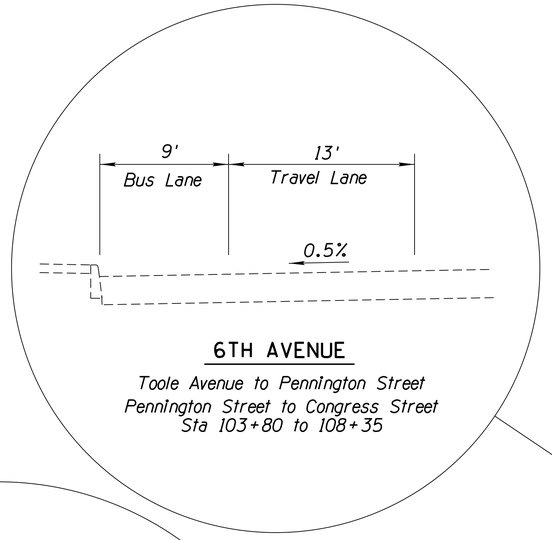
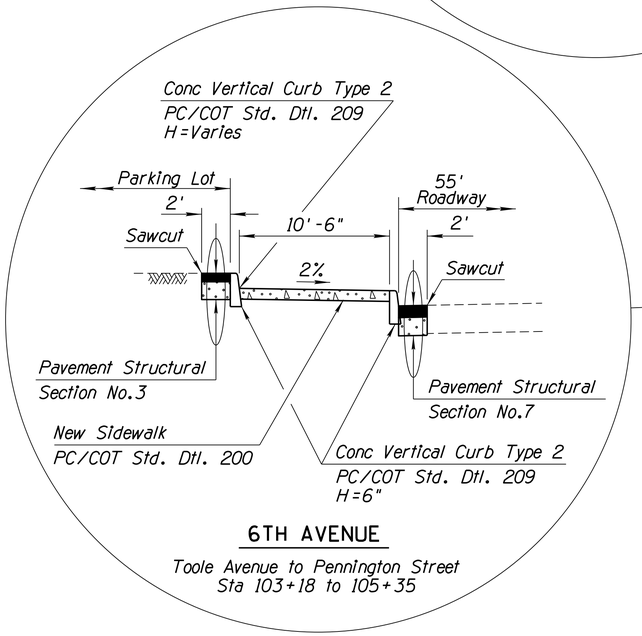


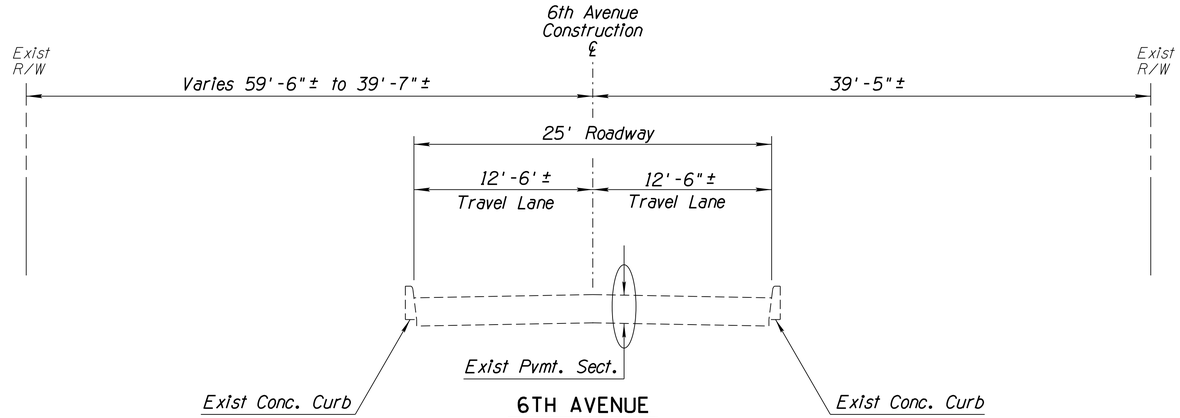
6TH AVENUE

Toole Avenue to Pennington Street
Pennington Street to Congress Street
Sta 103+80 to 108+35



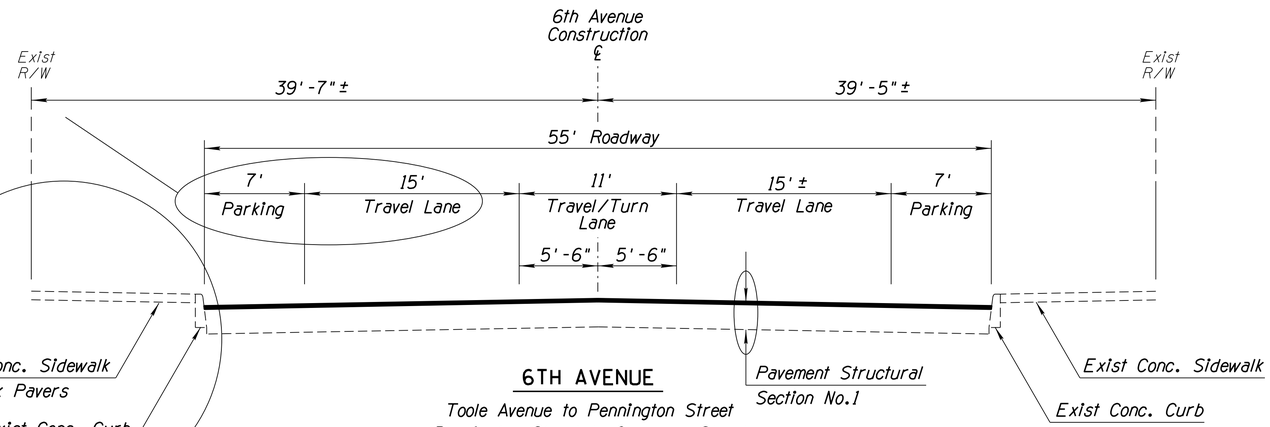
6TH AVENUE

Toole Avenue to Pennington Street
Sta 103+18 to 105+35



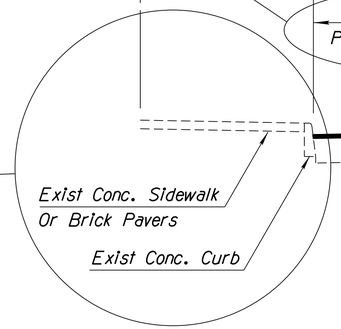
6TH AVENUE

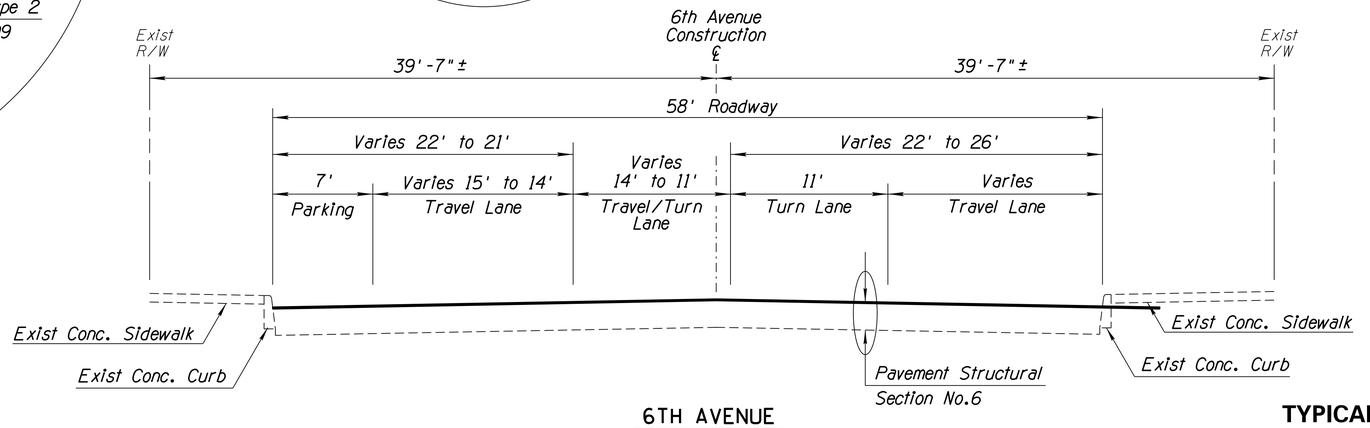
7th Street to Toole Avenue
Sta 95+19 to 101+65



6TH AVENUE

Toole Avenue to Pennington Street
Pennington Street to Congress Street
Sta 103+18 to 105+35
Sta 106+14 to 110+50





6TH AVENUE

Congress Street to Broadway Boulevard
Sta 111+08 to 113+42

TYPICAL SECTIONS

1 OF 2

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4 OF 37

CITY OF TUCSON

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CHKD. BY J Koesters	2013	PLAN NO. I-2012-009

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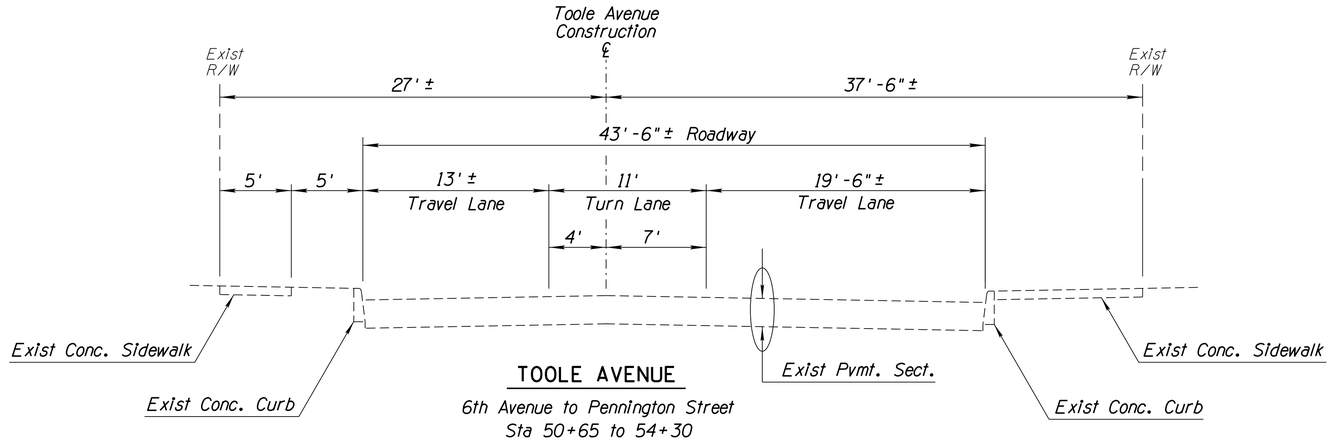
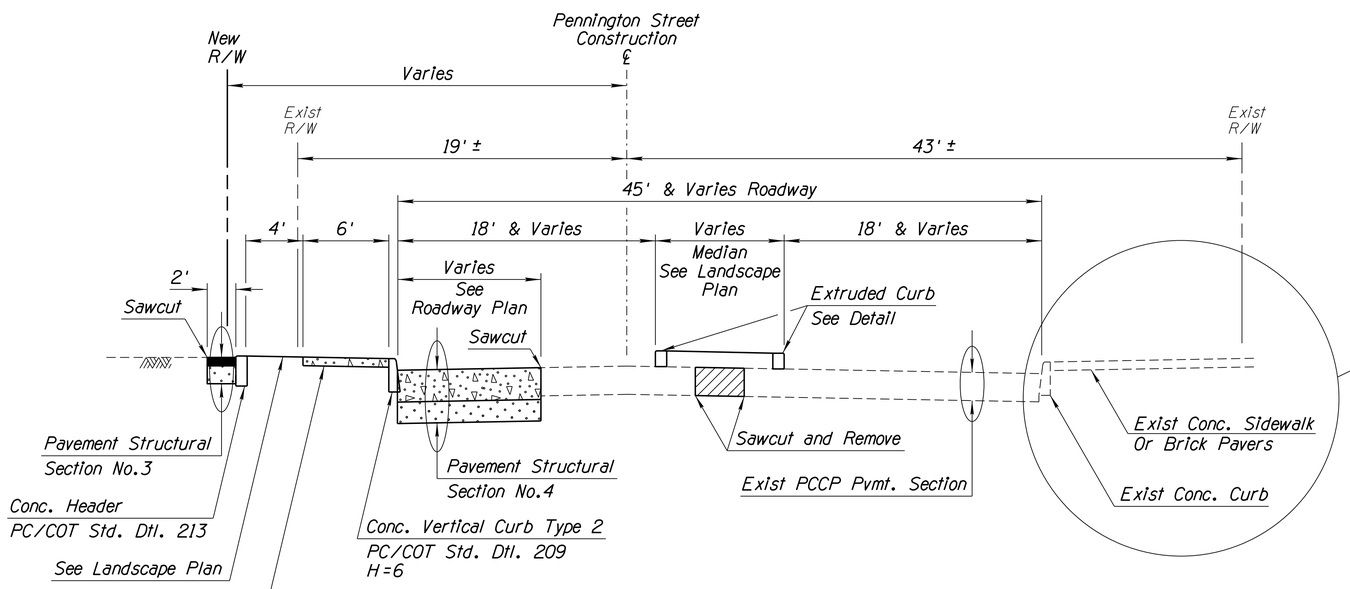


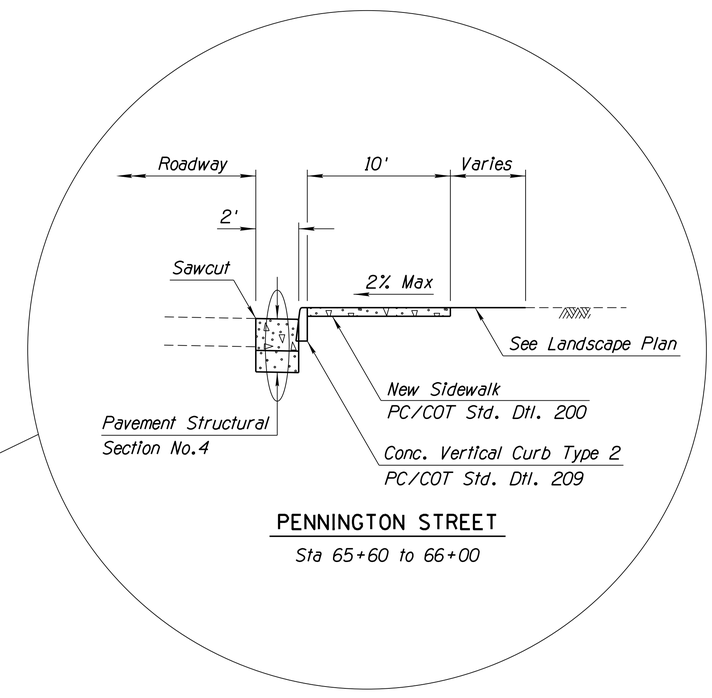
TOOLE AVENUE

6th Avenue to Pennington Street
Sta 50+65 to 54+30



PENNINGTON STREET

6th Avenue to Toole Avenue
Sta 64+00 to 66+00



PENNINGTON STREET

Sta 65+60 to 66+00

TYPICAL SECTIONS

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CHKD. BY J Koesters	2013	PLAN NO. 1-2012-009	

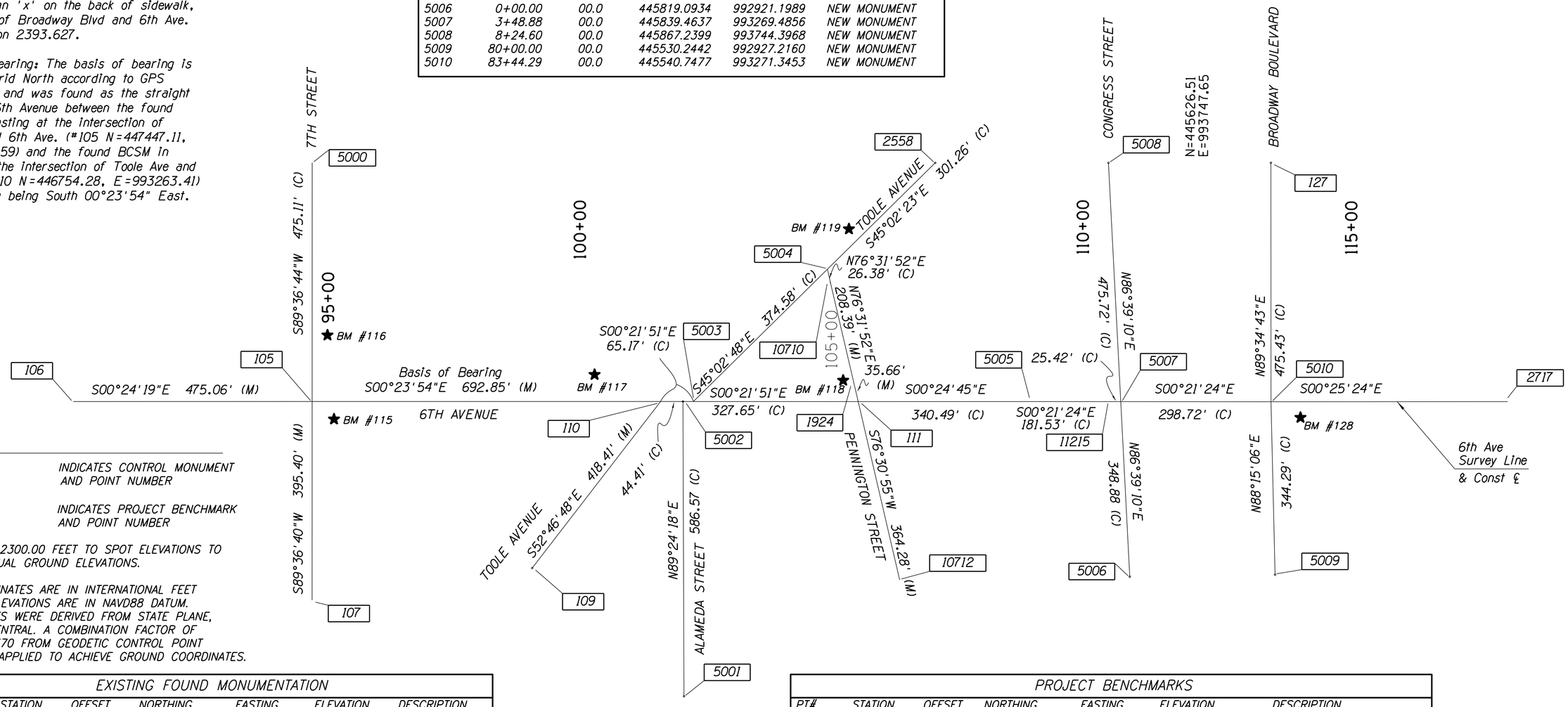
NOTES:

1. Basis of Elevation: The basis of elevation is COT BM#24, and 'x' on the bullnose at Alameda Street and Toole Avenue, per COT Field Book 1989-x, Page 2R, said elevation being 2384.158. Also used is COT BM #15, Page 2R, an 'x' on the back of sidewalk, NE corner of Broadway Blvd and 6th Ave. with elevation 2393.627.

2. Basis of Bearing: The basis of bearing is based on Grid North according to GPS Coordinates and was found as the straight line along 6th Avenue between the found BCSM in casting at the intersection of 7th St. and 6th Ave. (#105 N=447447.11, E=993258.59) and the found BCSM in casting at the intersection of Toole Ave and 6th Ave (#110 N=446754.28, E=993263.41) and bearing being South 00°23'54" East.

1" = 100'

MONUMENT LINE CONTROL					
PT#	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
5000	18+70.52	00.0	447450.3298	993733.6898	NEW MONUMENT
5001	40+00.00	00.0	446703.7821	992677.1507	NEW MONUMENT
5002	45+86.57	00.0	446709.8728	993263.6887	NEW MONUMENT
5003	50+00.00	00.0	446689.1100	993263.8207	NEW MONUMENT
5004	53+74.58	00.0	446424.4590	993528.9059	NEW MONUMENT
5005	109+01.22	00.0	446020.9875	993268.3555	NEW MONUMENT
5006	0+00.00	00.0	445819.0934	992921.1989	NEW MONUMENT
5007	3+48.88	00.0	445839.4637	993269.4856	NEW MONUMENT
5008	8+24.60	00.0	445867.2399	993744.3968	NEW MONUMENT
5009	80+00.00	00.0	445530.2442	992927.2160	NEW MONUMENT
5010	83+44.29	00.0	445540.7477	993271.3453	NEW MONUMENT



LEGEND

△ 107 — INDICATES CONTROL MONUMENT AND POINT NUMBER

★ BM #128 — INDICATES PROJECT BENCHMARK AND POINT NUMBER

NOTE: ADD 2300.00 FEET TO SPOT ELEVATIONS TO DERIVE ACTUAL GROUND ELEVATIONS.

ALL COORDINATES ARE IN INTERNATIONAL FEET AND ALL ELEVATIONS ARE IN NAVD88 DATUM. COORDINATES WERE DERIVED FROM STATE PLANE, ARIZONA CENTRAL. A COMBINATION FACTOR OF 0.9998845370 FROM GEODETIC CONTROL POINT DG23 WAS APPLIED TO ACHIEVE GROUND COORDINATES.

EXISTING FOUND MONUMENTATION						
PT#	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
105	94+75.06	00.0	447447.1141	993258.5906	2373.84	SM IN CASTING
106	90+00.00	00.0	447922.1585	993255.2302	2375.42	SM IN CASTING
107	10+00.00	00.0	447444.4546	992863.1944	2375.29	SM IN CASTING
109	30+00.00	00.0	447007.3692	992930.2180	2380.15	SM
110	101+67.91	00.0	446754.2821	993263.4064	2383.14	SM
111	105+60.73	00.0	446361.4687	993265.9039	2387.46	SM
127	88+19.72	00.0	445544.2436	993746.7658	2396.10	SM RLS18211
1924	63+99.95	00.0	446369.7735	993300.5928	2387.07	SM IN CASTING
2558	56+75.82	00.0	446211.6064	993742.0614	2390.25	SM RLS13019
2717	118+62.15	00.0	445070.0718	993274.8238	2395.83	SM RLS23956
10710	66+08.34	00.0	446418.3147	993503.2514	2387.52	SM
10712	60+00.00	00.0	446276.5247	992911.6699	2383.70	SM
11215	110+57.33	00.0	445864.8807	993269.4804	2389.43	SM

PROJECT BENCHMARKS						
PT#	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
115	95+18.36	27.69'R	447403.6148	993231.1982	2374.56	BM X ON BCR CURB
116	95+10.51	138.27'R	447412.6226	993397.1025	2374.88	BM X ON COR. CATCH BASIN
117	100+36.28	52.51'L	446886.2718	993315.0019	2383.81	BM X ON CONC. PAD
118	105+30.81	42.56'L	446391.6539	993308.2709	2388.47	BM MAG NAIL 3' N. OF TRAF. SIG.
119	105+42.10	343.73'L	446382.2759	993609.5107	2389.40	BM X ON CONC. PAD
128	114+40.04	31.15'R	445481.9401	993240.6273	2393.84	BM X ON COR. CATCH BASIN

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SURVEY CONTROL SHEET

1 OF 1

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DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

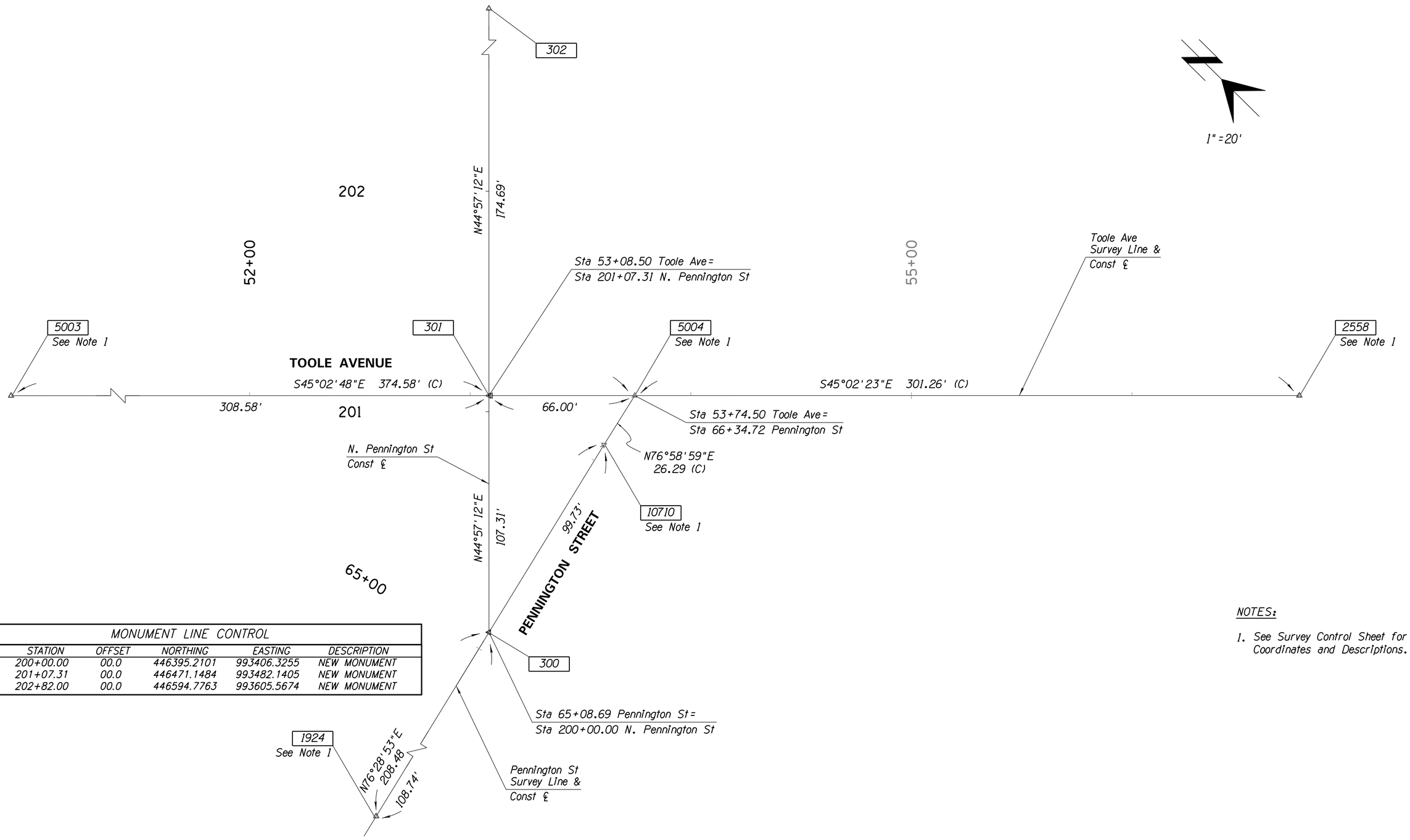
6 OF 37

CITY OF TUCSON

DRWN. BY CPG 2013
DSGN. BY J Vaskovic 2013
CHKD. BY J Koesters 2013

REF. COT Field Book No.
SCALE: H: 1"=100' N/A
PLAN NO. I-2012-009

Mon 01 Apr 2013, 07:56:43 T:\11536c_DIMC\DCR\Geometry\DIMC_Survey.dgn



MONUMENT LINE CONTROL					
PT#	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
300	200+00.00	00.0	446395.2101	993406.3255	NEW MONUMENT
301	201+07.31	00.0	446471.1484	993482.1405	NEW MONUMENT
302	202+82.00	00.0	446594.7763	993605.5674	NEW MONUMENT

NOTES:

1. See Survey Control Sheet for Coordinates and Descriptions.

GEOMETRIC CONTROL SHEET

3 OF 3

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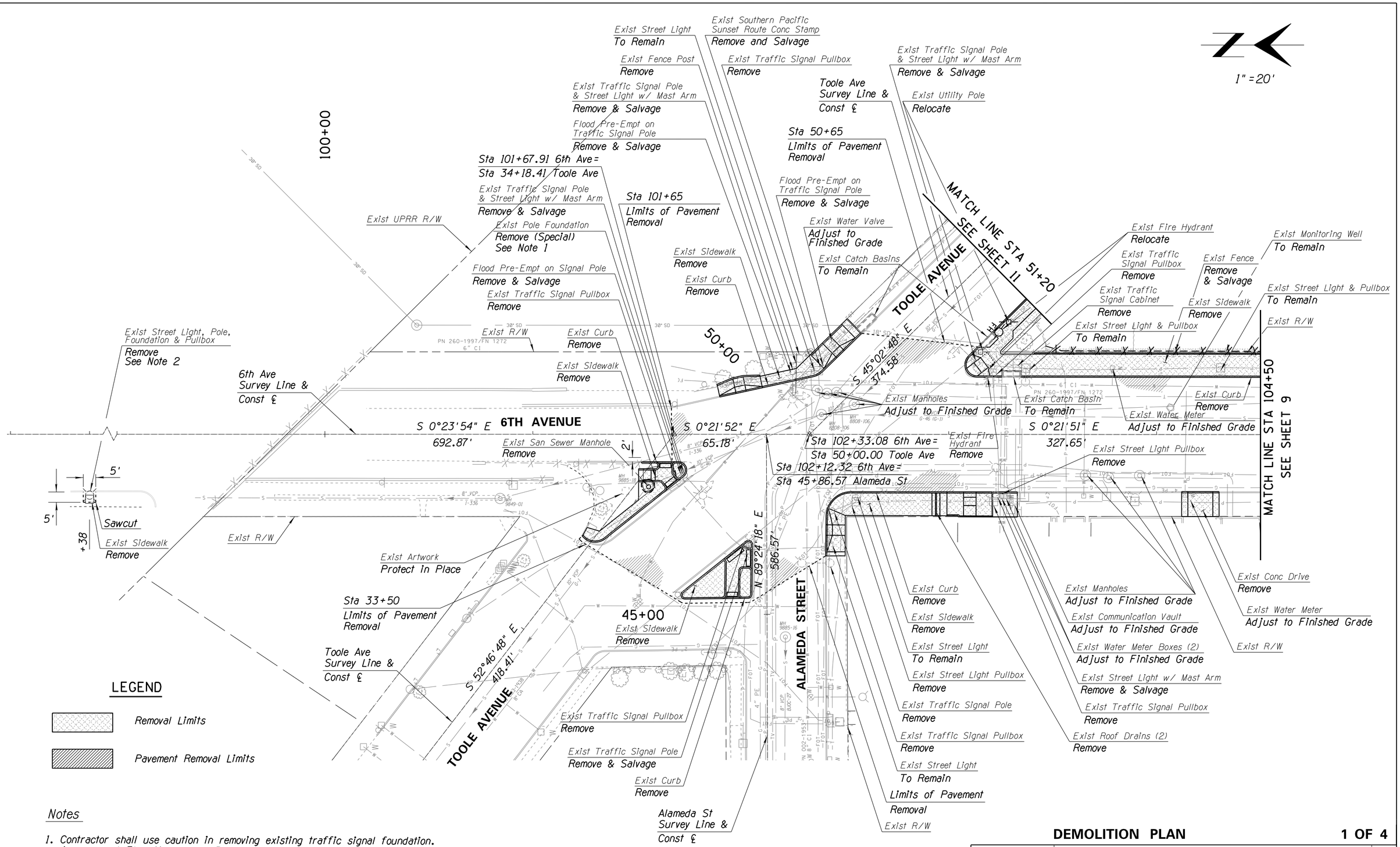
7 OF 37

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No.	SCALE: H: 1"=100' N/A
DSGN. BY J Vaskovic	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	



Notes

1. Contractor shall use caution in removing existing traffic signal foundation. An approved Flow Management Plan shall be in place prior to removal. See Special Provisions.
2. Existing lighting circuit shall be maintained. Disconnect conductors to existing street light at pullbox and protect for splicing to new conductors to new street light at new #5 pullbox. See Signing Plans.

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DEMOLITION PLAN

1 OF 4

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8 OF 37

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No.	SCALE: H: 1"=20'
DSGN. BY J Vaskovic	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

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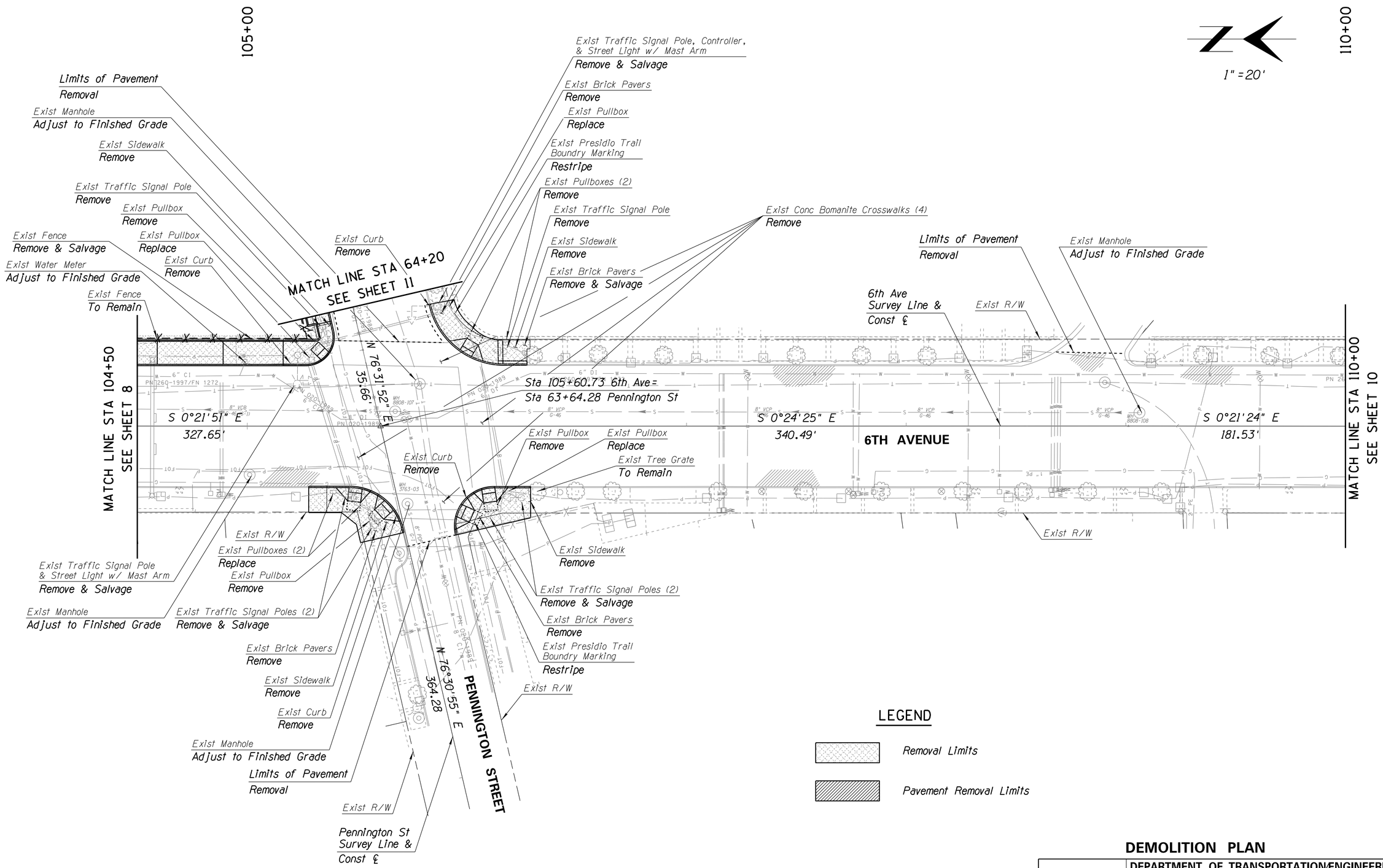

DEMOLITION PLAN

2 OF 4

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CITY OF TUCSON

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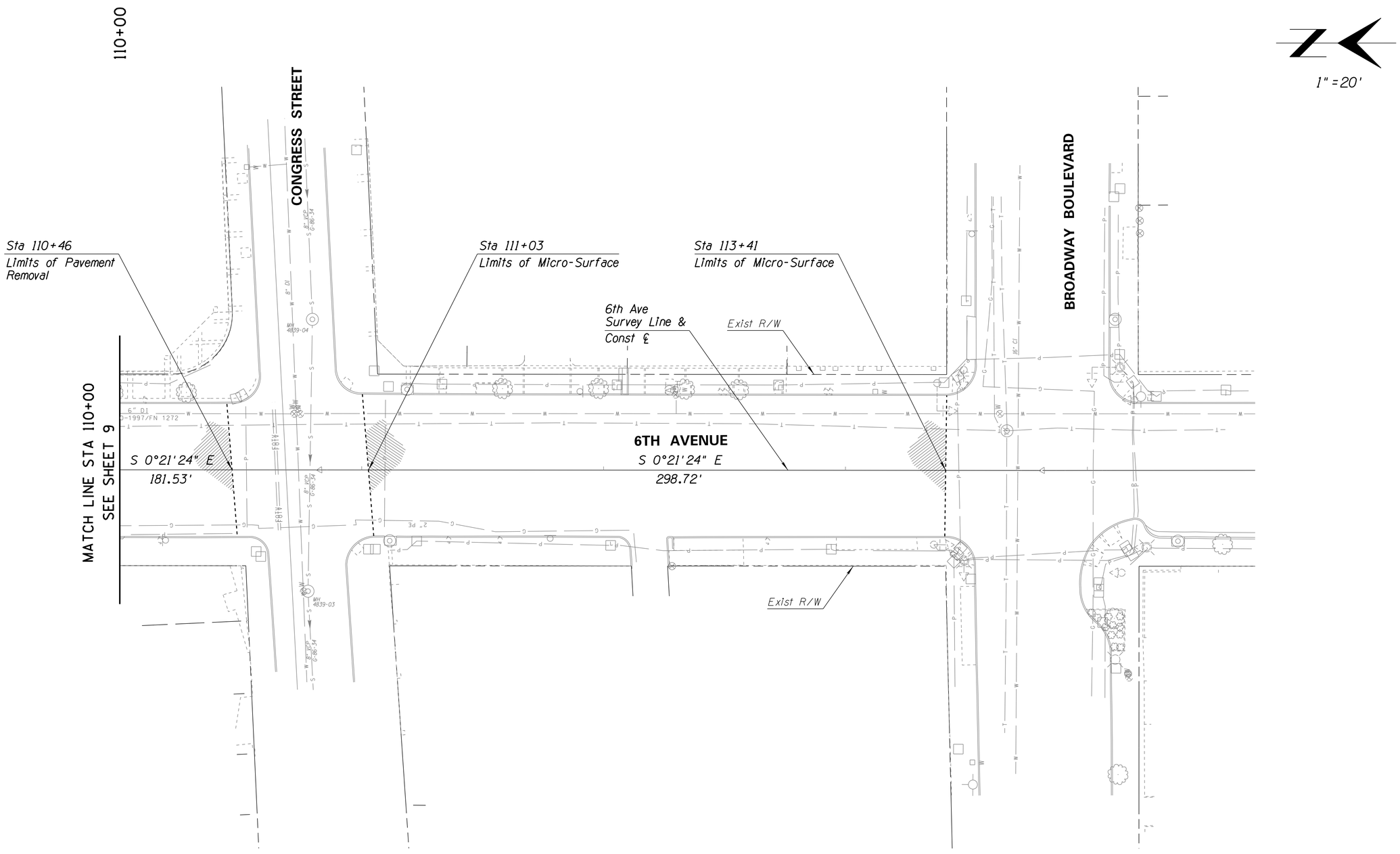

LEGEND

Removal Limits

Pavement Removal Limits

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DEMOLITION PLAN

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DOWNTOWN INTERMODAL CENTER
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10 OF 37

CITY OF TUCSON

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DSGN. BY J Vaskovic	2013	
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009

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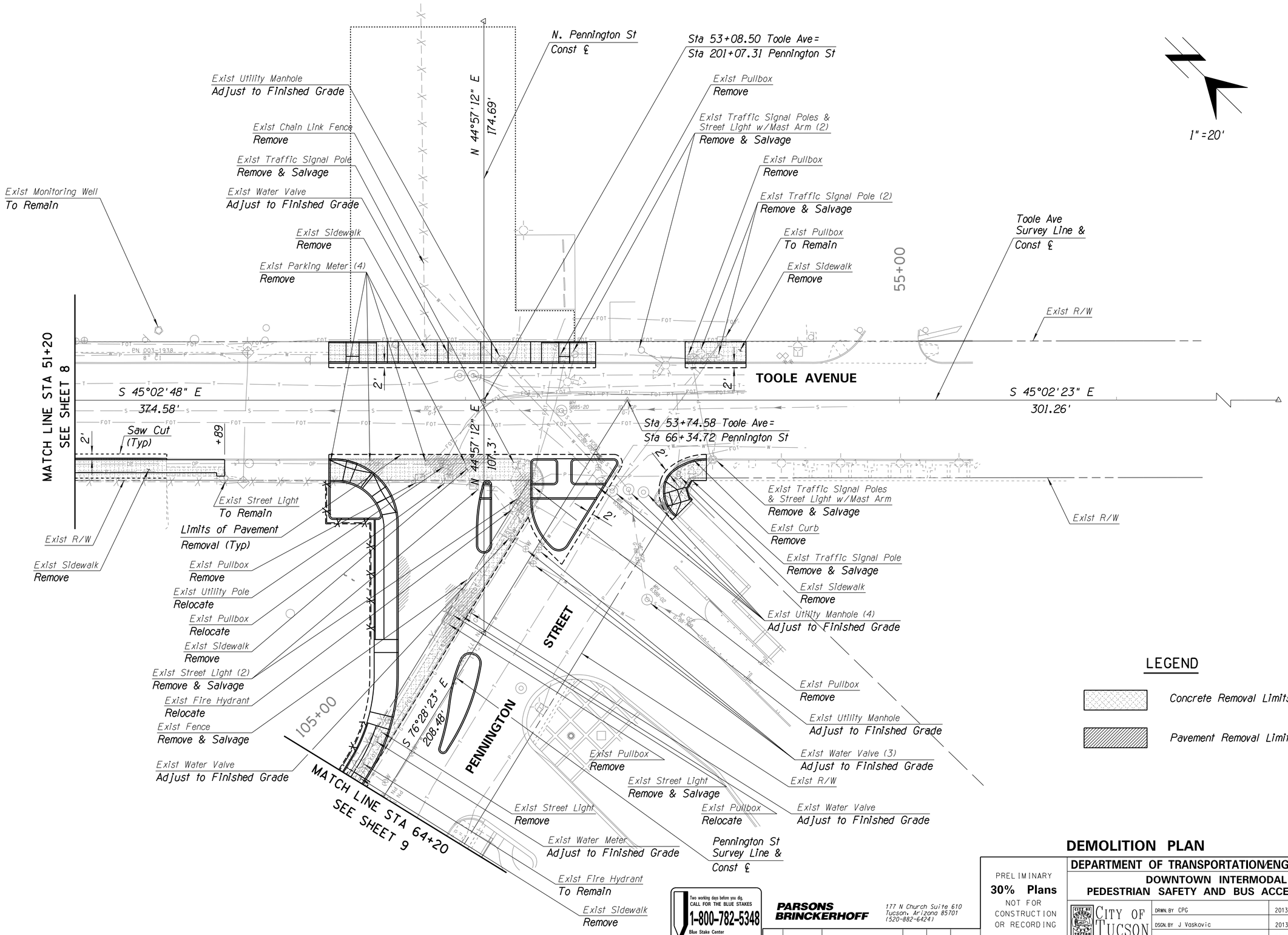

DEMOLITION PLAN

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CITY OF TUCSON

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CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

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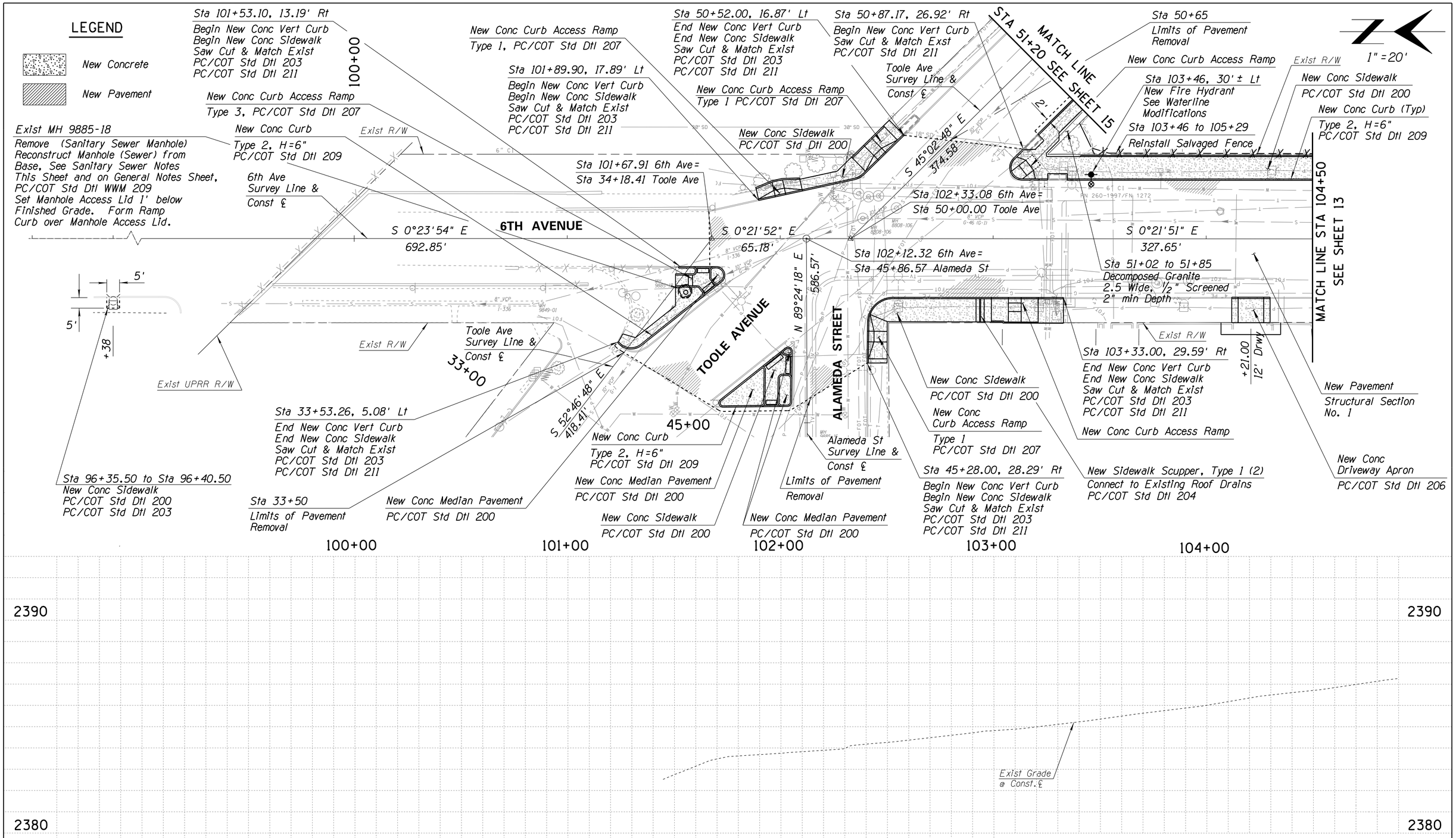

ROADWAY PLAN

1 OF 4

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CITY OF TUCSON

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DSGN. BY J Vaskovic	2013	
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009

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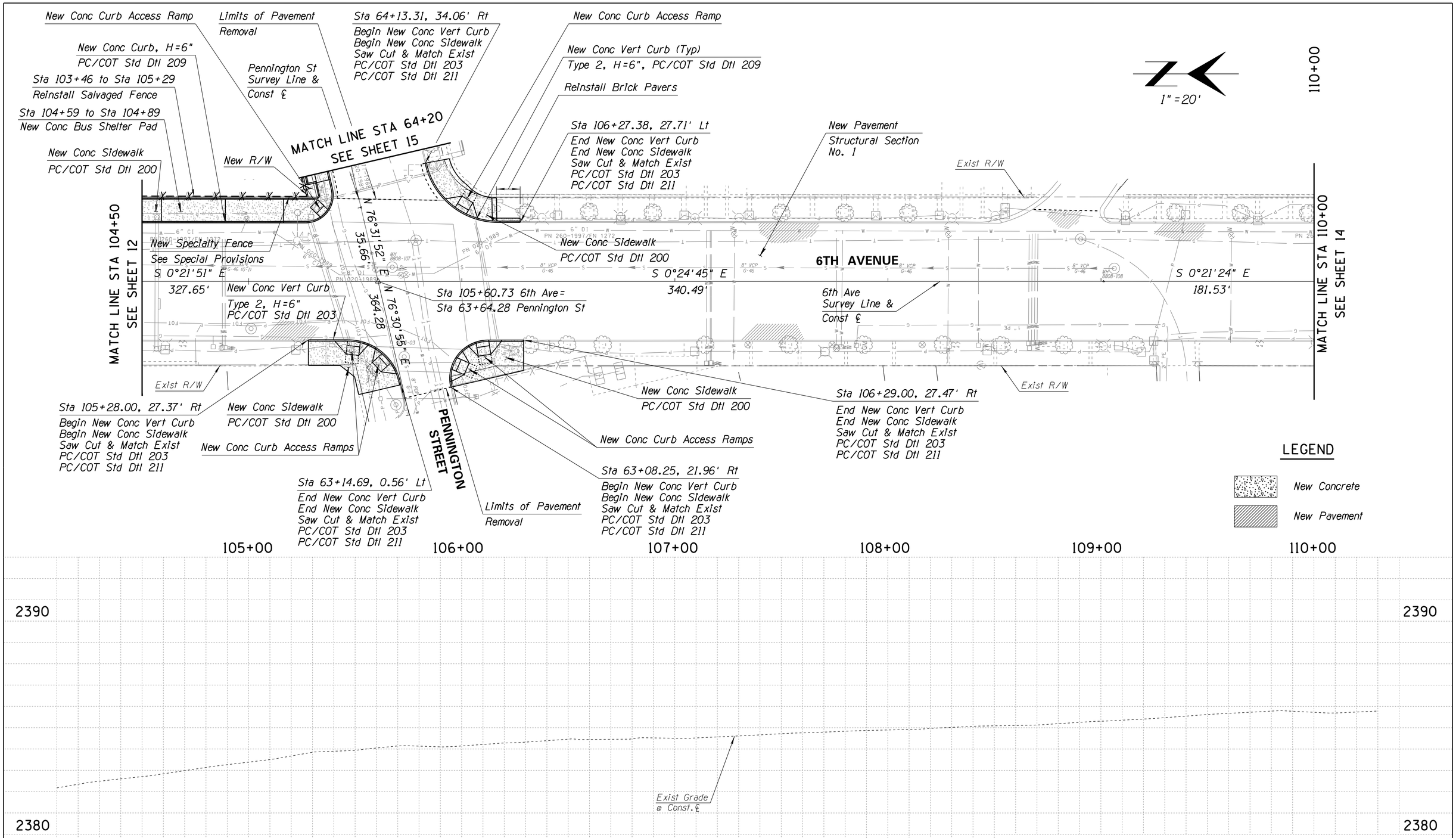

ROADWAY PLAN

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CITY OF TUCSON

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DSGN. BY J Vaskovic	2013		
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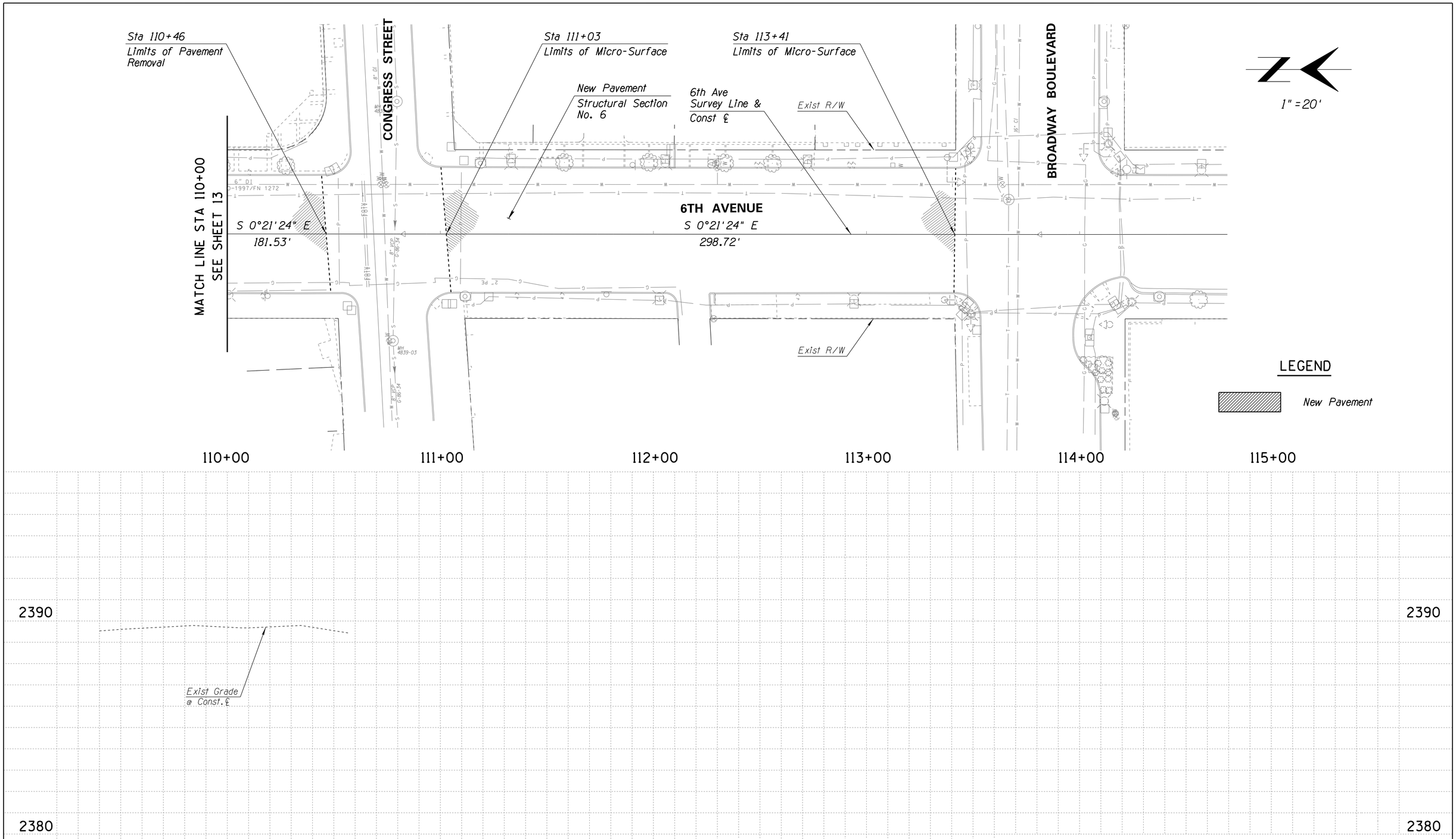

ROADWAY PLAN

3 OF 4

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CITY OF TUCSON

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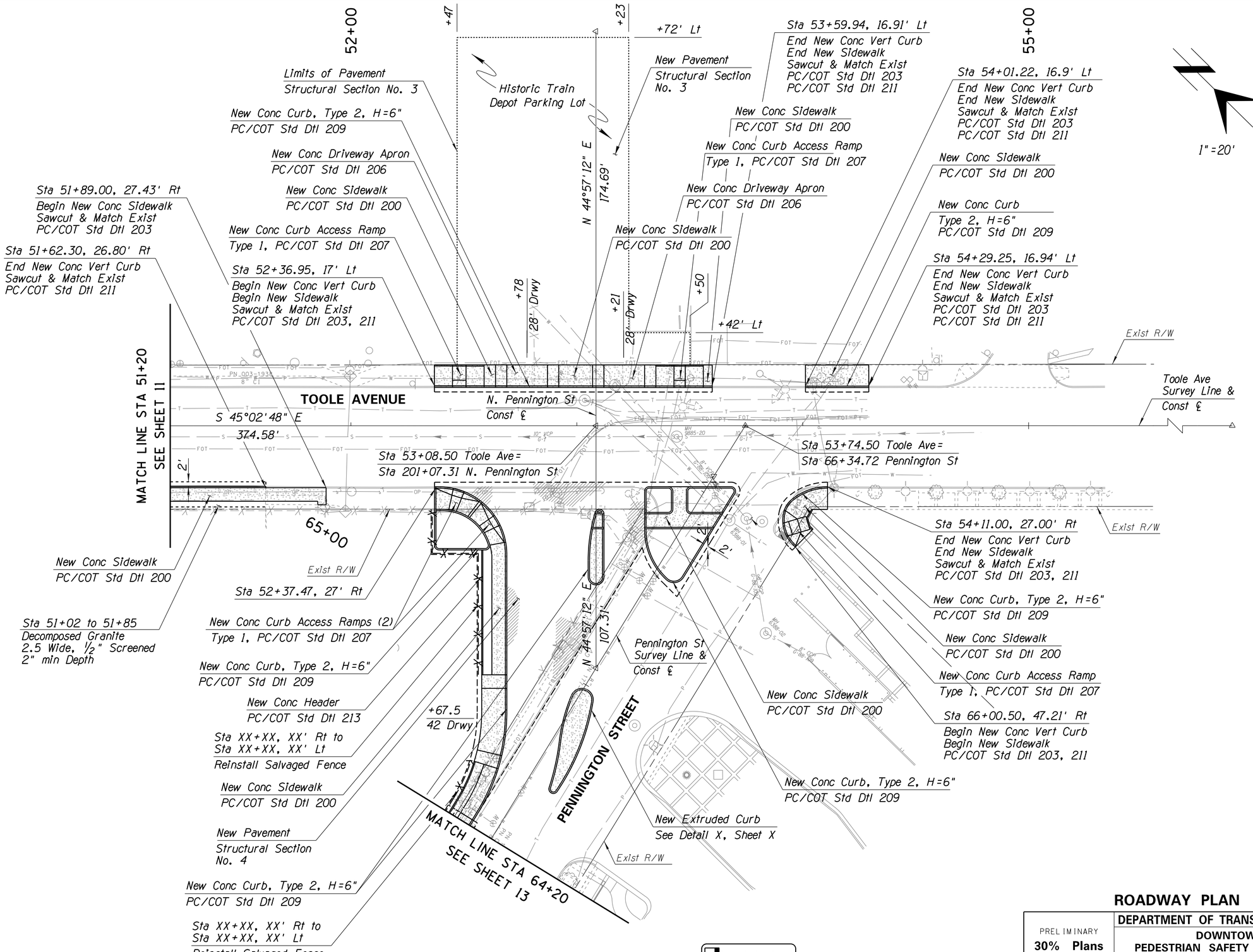

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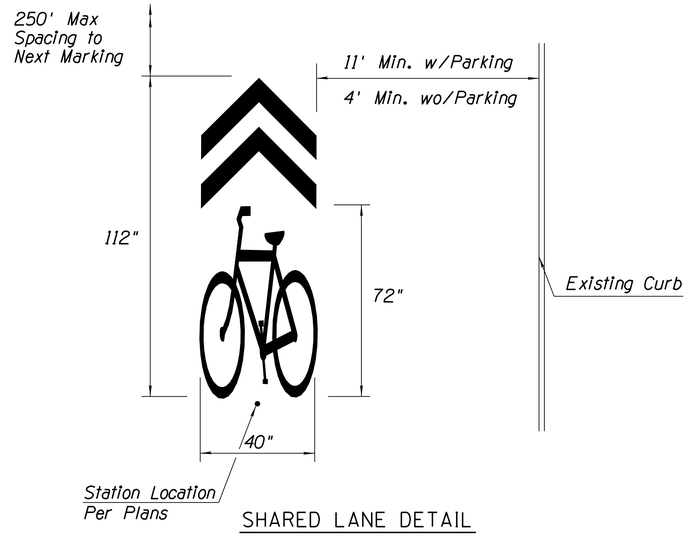
CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No.	SCALE: H: 1"=20'
DSGN. BY J Vaskovic	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

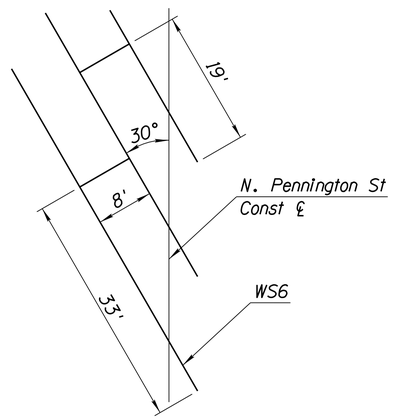
General Notes - Pavement Markings

1. All pavement markings shall conform to Pima County/City of Tucson Standards And Specifications.
2. The permanent pavement markings may be modified as directed by the Traffic Engineer.
3. Design Speed: 6th Avenue - 30 MPH, Posted Speed: 25 MPH
   Toole Avenue - 30 MPH, Posted Speed: 25 MPH
   Pennington Street - 30 MPH Posted Speed: 25 MPH

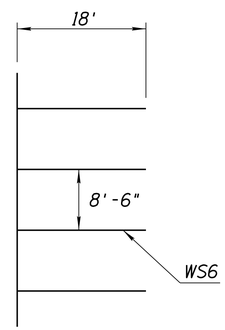
   Design Vehicle: B-40
4. All lane dimensions are from center of lane line, center of double lane line, face of curb, or edge of pavement unless otherwise noted.
5. The pavement marking drawings are schematic only. The Contractor shall follow all dimensions, details, and standards when installing pavement 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 Engineer. All other markings shall be applied at the same time. 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 marking on final surface course. The layout and inspection of all pavement markings shall be approved by the 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 no more than 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 Engineer by sweeping and air-jet blowing immediately prior to the placement of all pavement markings. The temperature shall not be less than 50° F for the placement of hot sprayed thermoplastic striping, and 40° F for the placement of RPMs.
11. All raised pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of the traffic flow. Type C markers shall be installed so that the clear reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow.
12. All removal of existing pavement markings shall be accomplished in accordance with Section 701 of The PC/COT Standard Specifications. Painting over existing striping does not constitute approved striping obliteration.
13. The Engineer of Record shall be required to produce As-Built striping plans within 90 days of striping completion.
14. 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.
15. For all construction, all pavement markings shall be installed by the Contractor.
16. Final inspection/acceptance of pavement markings shall be performed by the Traffic Engineer.



SHARED LANE DETAIL



PARKING STALL DETAIL 1

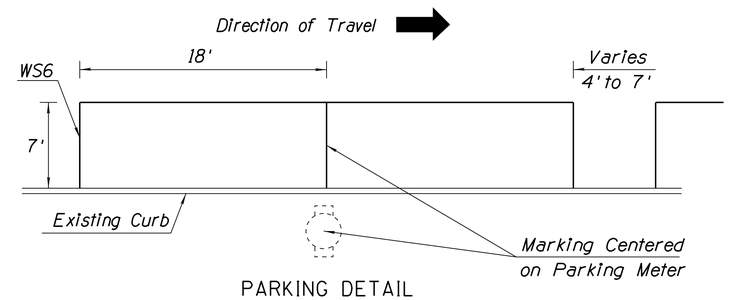


PARKING STALL DETAIL 2

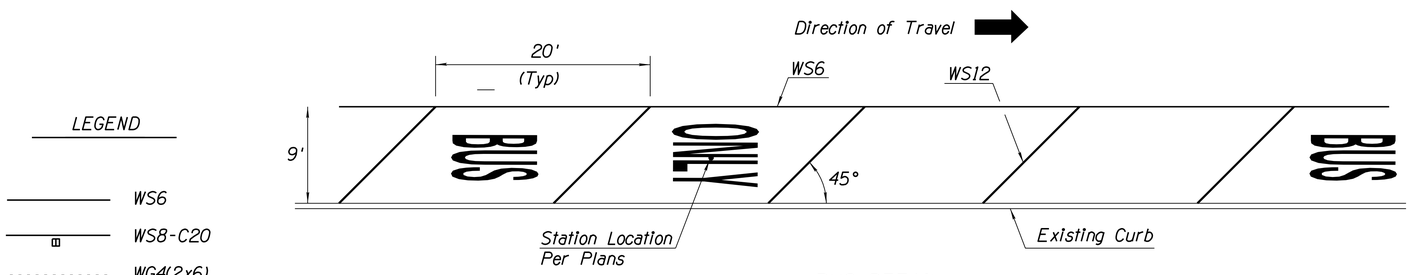
Pavement Markings Quantity Summary

Estimated Quantities				
Line Item Name and Number			*Units	Total Quantities
Permanent Pavement Markings, Thermoplastic (thickness = 0.060")	7040010	White	L.F.	
	7040020	Yellow	L.F.	
Permanent Pavement Markings, Thermoplastic (thickness = 0.090")	7040110	White	L.F.	
Permanent Pavement Markings, Preformed Type I	7040030	Single Arrow	EA.	
	7040040	Double Arrow	EA.	
	7040060	Only	EA.	
	7040070	Bus-Only	EA.	
	7040080	Shared Lane	EA.	
Raised Pavement Markers	7060020	Type C	EA.	
	7060025	Type D	EA.	
	7060040	Type F	EA.	
Temporary Paint	7080001	White	L.F.	
	7080001	Yellow	L.F.	
	7080010	Symbol or Legend	EA.	

* Quantities That Are In Linear Feet Are Based On 4" Equivalent Per Linear Feet of Stripe.



PARKING DETAIL



BUS DETAIL

LEGEND

- WS6
- WS8-C20
- WG4(2x6)
- WB4-C40
- WS12
- YDS4-D40/D40

PAVEMENT MARKING PLAN 1 OF 3

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CITY OF TUCSON

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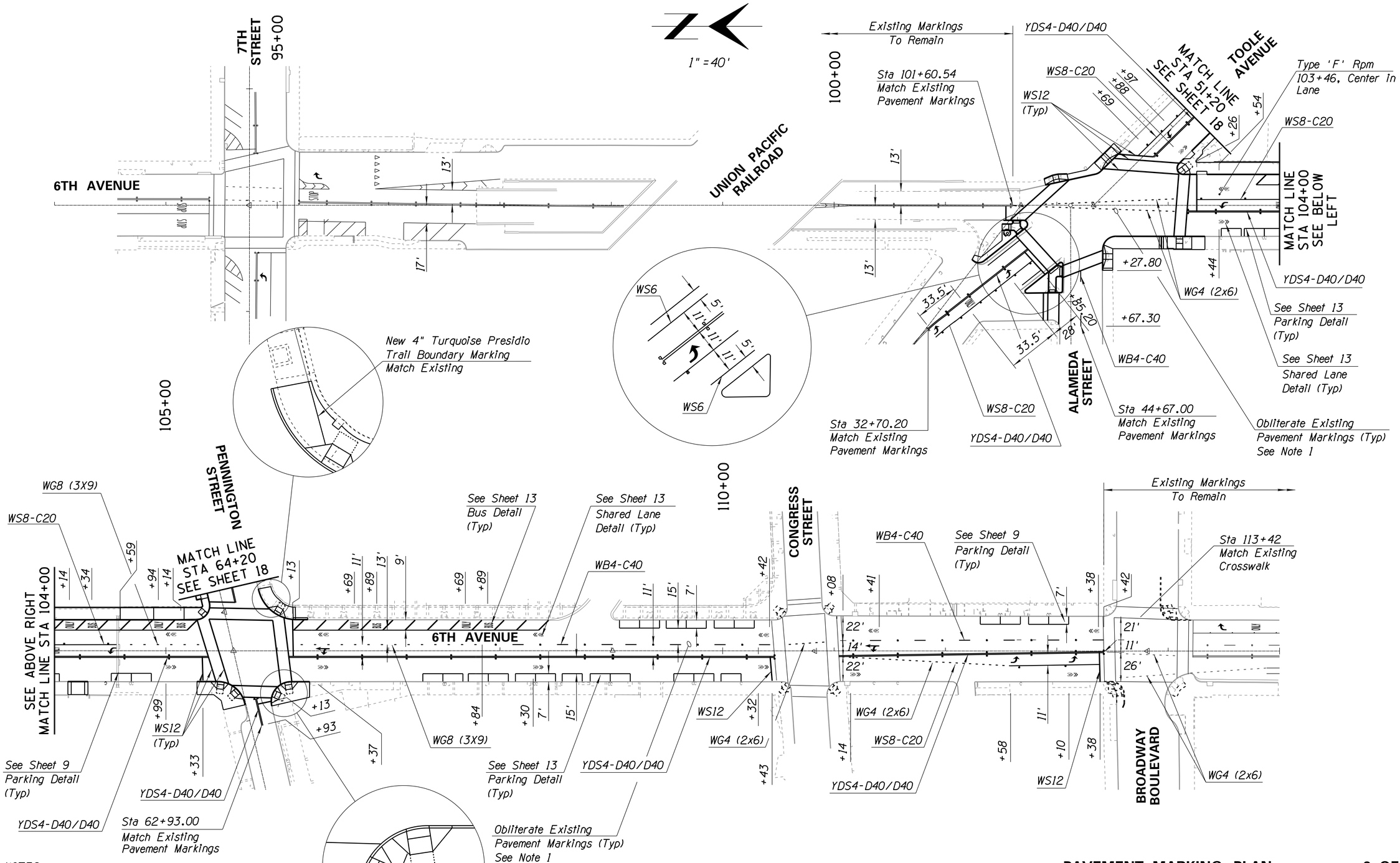

NOTES:

1. Existing Pavement Marking on 6th Avenue between Toole Avenue and Broadway Boulevard in Conflict with New Pavement Markings shall be Obliterated. This includes Existing Double Yellow Line, Dashed White Lane Line, Crosswalks, and Stop Bars.

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CITY OF TUCSON

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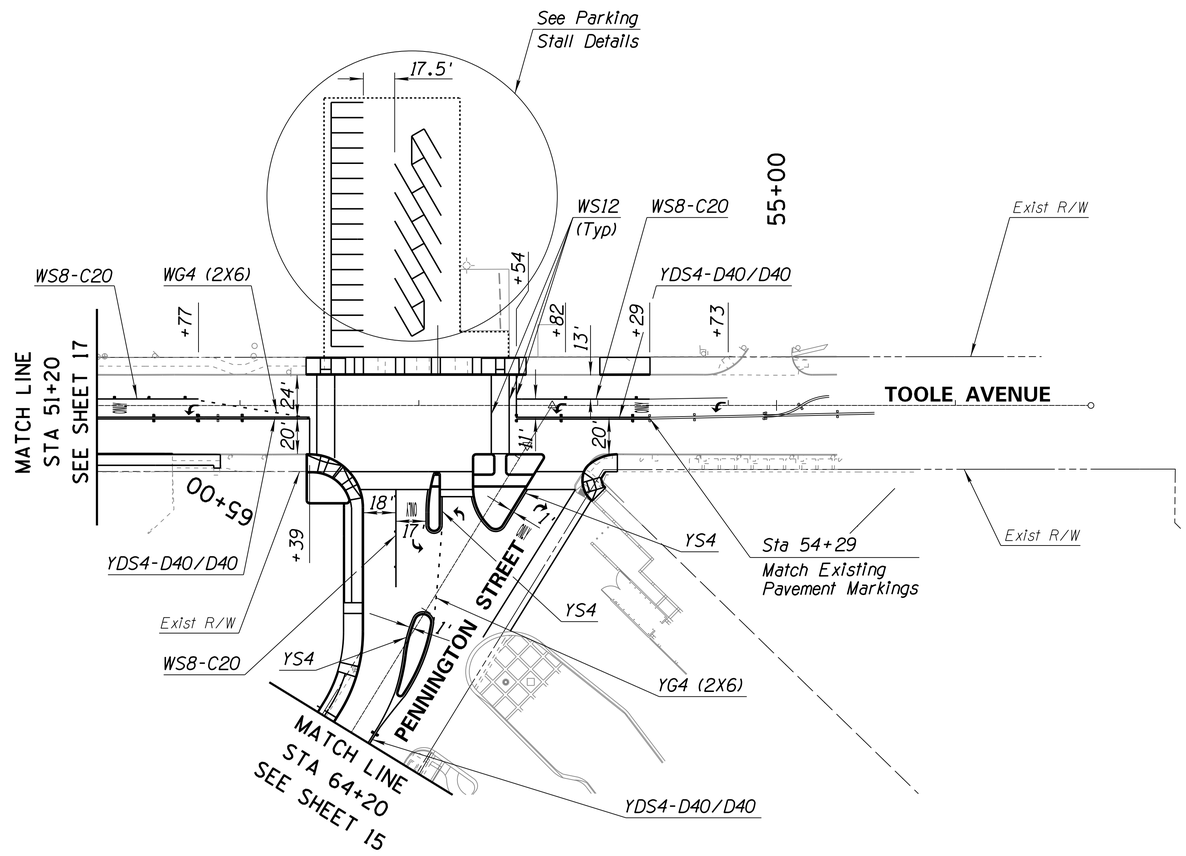
1" = 40'



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General Notes - Signing

1. Design Speed: 6th Avenue - 30 MPH, Posted Speed: 25 MPH
   Toole Avenue - 30 MPH, Posted Speed: 25 MPH
   Pennington Street - 30 MPH Posted Speed: 25 MPH

   Sign placement shall be based on the posted speed limit.

2. All signs shall be in compliance with the 2009 Edition of the Manual on Uniform Traffic Control Devices, 2002 Edition of the Pima County and City of Tucson Traffic Signing Design Manual, the current Supplemental Specifications, these Plans, and the Special Provisions.

3. Signs may be modified and locations adjusted to fit conditions as directed by the Traffic Engineer.

4. Post lengths indicated on sign summary sheets are approximate. The contractor shall verify actual post lengths.

5. All perforated posts shall be installed in a concrete foundation, unless otherwise directed by the jurisdiction Traffic Engineer.

6(a). All sign station locations are approximate. The contractor shall verify actual sign locations with the Traffic Engineer prior to the installation of signs.

6(b). The contractor shall be responsible for coordinating all work with Blue Stake and for installing all traffic signs in the field.

7. All warning sign panels shall be fluorescent yellow diamond grade (DG3 or equivalent) sheeting. All school zone signs shall be fluorescent yellow-green diamond grade (DG3 or equivalent sheeting. All other sign panels shall have High Intensity Prismatic Type IV sheeting.

8. All new signs shall have aluminum backing, unless otherwise specified.

9. All new signs shall have 0.080 guage aluminum backing and radius cut corners, except street-name sign panels taller than 6 inches which shall have 0.125 gauge aluminum backing unless otherwuse noted.

10. Block numbers for all street-name signs shall be approved by Traffic Engineering before sign fabrication.

Siging Quantity Summary

Estimated Quantities			
ITEM		UNIT	QUANTITY
SIGN PANEL SHEETING TYPE	TYPE II	SQ FT	
SIGN POSTS	2S PERFORATED SIGN POST	LIN FT	
	2S FOUNDATION	EACH	

SIGNING PLAN 1 OF 4

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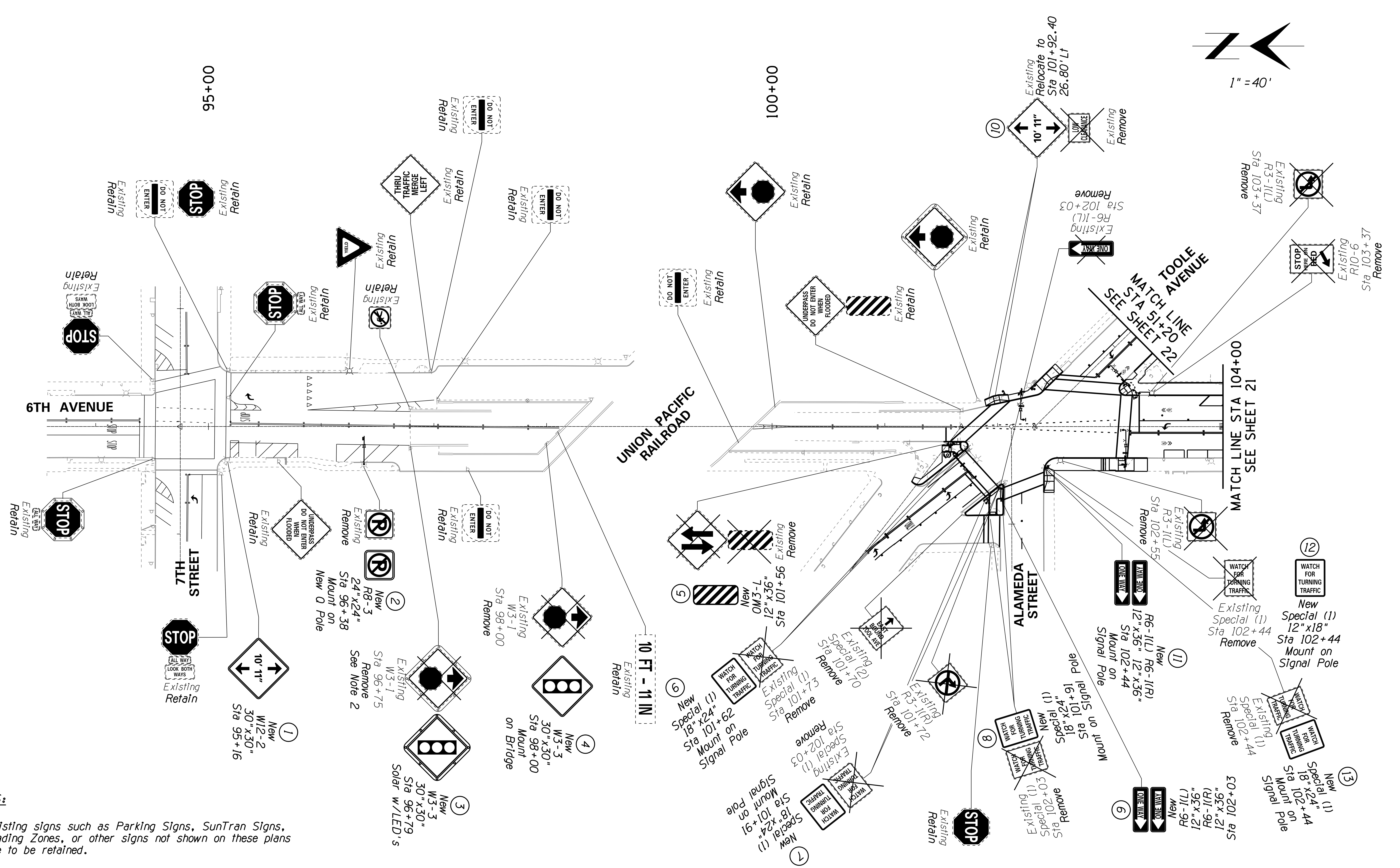
DSGN. BY K Hubbard 2013
CHKD. BY J Koesters 2013 PLAN NO. I-2012-009



NOTES:

1. Existing signs such as Parking Signs, SunTran Signs, Loading Zones, or other signs not shown on these plans are to be retained.

2. Remove sign and Solar Panel without damaging sign, LEDs or Solar Panel. Coordinate with Traffic Engineering for location for reinstallation.

SIGNING PLAN		2 OF 4
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		20 OF 37
DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS		

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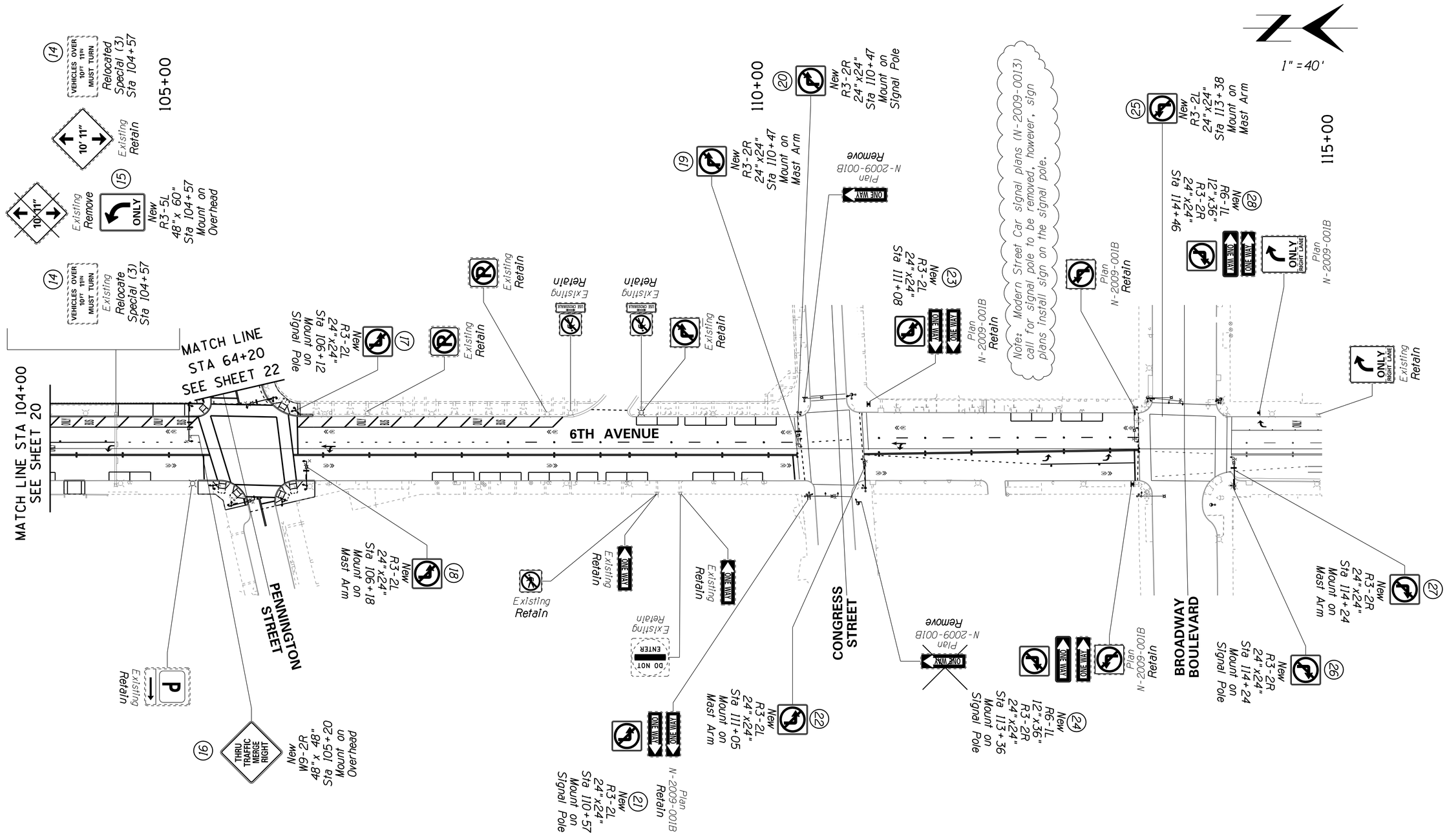

NOTES:

1. Existing Signs Such as Parking Signs, SunTran Signs, Loading Zones, or Other Signs not shown on these Plans are to be Retained.

SIGNING PLAN

3 OF 4

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21 OF 37

CITY OF TUCSON

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CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

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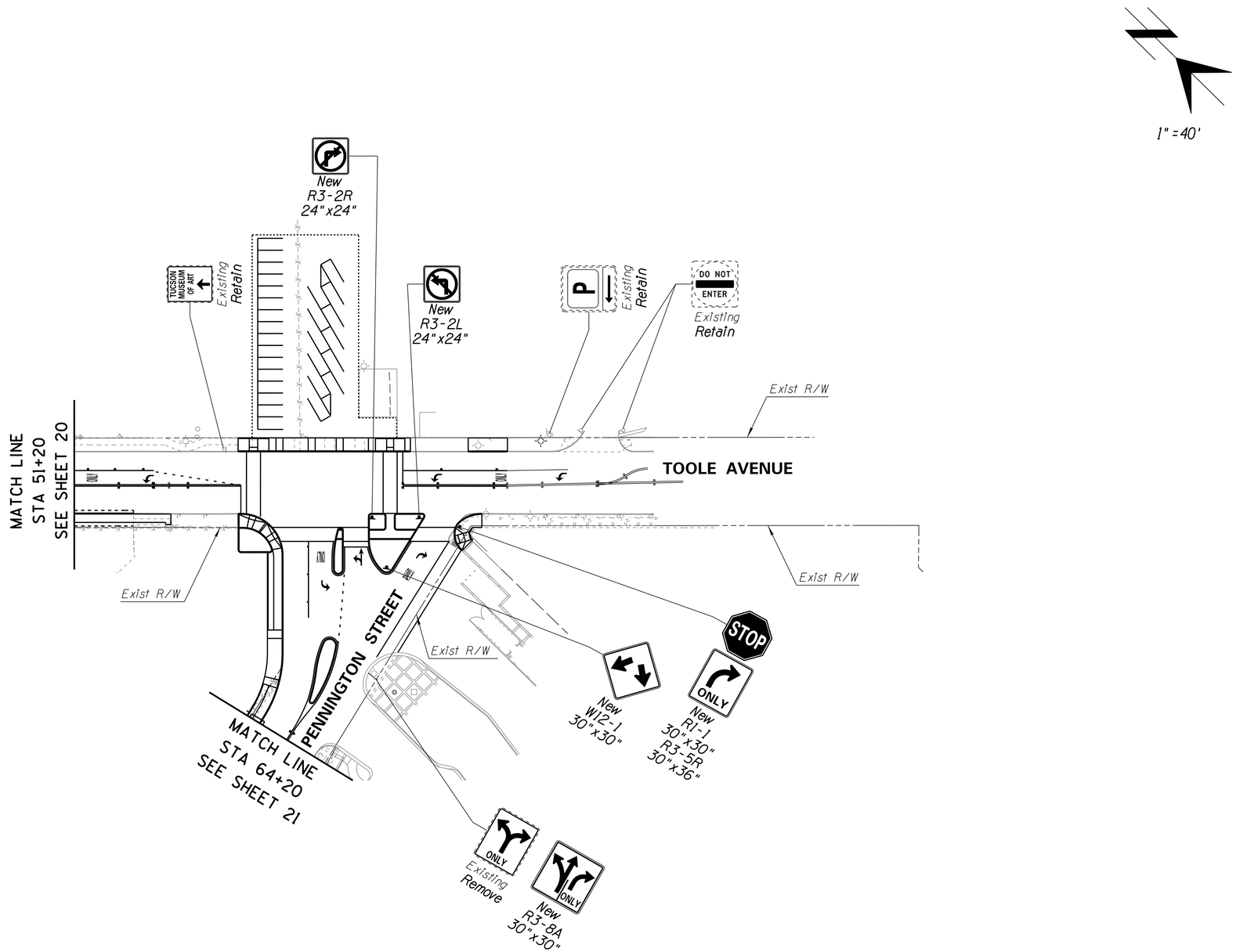

SIGNING PLAN

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CITY OF TUCSON

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General Notes - Traffic Signals

1. All equipment shall be placed within the right of way, including all conduit runs.
2. Conduit runs are shown for schematic purposes, and shall be placed in common trench where possible.
3. All equipment, materials, and construction shall meet or exceed the current City of Tucson/Pima County "Standard Specifications for Public Improvements" and "Standard Details for Public Improvements," 2003 Edition.
4. The Contractor shall have the site blue staked prior to beginning any excavation work. The location of utility facilities are approximate. All involved utilities may not be shown on the plans. The contractor shall be responsible for contacting all utilities for exact location prior to any construction activity.
5. Contact Tucson Electric Power Co., XXXXX XXXXXX 918-8364, to coordinate disconnection/ reconnection of existing electrical service.
6. The Contractor shall verify Street Name Sign legends with City of Tucson prior to ordering.
7. The Contractor shall utilize the existing telephone connections. Contact CenturyLink at 884-2952 to coordinate changes to the telephone connection.
8. All equipment locations shall be confirmed by the engineer in the field prior to construction.
9. All intersection lighting luminaires shall conform to the following: 120 V, 400 W HPS, Type III distribution, full cut-off and flat lens. LED fixtures shall have comparable criteria.
10. Contractor shall hand dig as required, where utilities are in potential conflict with the installation of equipment.
11. All (16) conductor IMSA shall run from controller to pole unspliced.
12. Y designates City approved (Strobe com II) Emergency Vehicle Pre-Empt Sensor supplied and installed by the contractor.
13. X designates City approved Emergency Vehicle Beacon supplied and installed by the contractor.
14. Remove & Salvage Existing Poles, Mast Arms, and other Existing Unused Equipment to COT Electric Shop. Call Ernie Encinas (791-3191) for Instructions, 48 Hours in Advance.

LEGEND

- New traffic signal mast arm with signal heads and luminaire
- Load center
- New controller
- UPS (Uninterrupted Power Source)
- New #7 pull box
- New #7 pull box w/extension
- Video Camera

Responsibilities:

1. The Contractor shall supply and install the following equipment and materials: steel poles anchor bolts (with nuts and washers), concrete pole foundations with reinforcement (where specified), control cabinet concrete foundation, concrete pull boxes, electrical conduit, ground rods and connectors, bare bond wire and all other conductors, traffic signals and mounting assemblies, poles, mastarms, pedestrian signals, and mounting assemblies, pedestrian push button stations with signs, luminaries, photocells, internally illuminated street name signs, electric service pedestal(s) and concrete foundation(s) and all other appurtenances necessary for the operation of the traffic signal installation(s), except as modified in the plans.
2. TDOT shall supply the traffic signal controller and video detection system.
3. The Contractor shall install the traffic controller cabinet on its foundation and route all of the conductors in to the control cabinet. The TDOT staff shall terminate the conductors in the control cabinet.

TRAFFIC SIGNAL PLAN 1 OF 11

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CITY OF TUCSON

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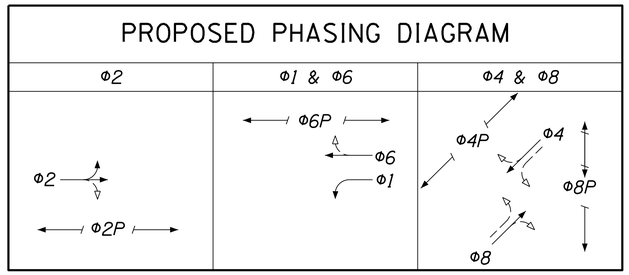

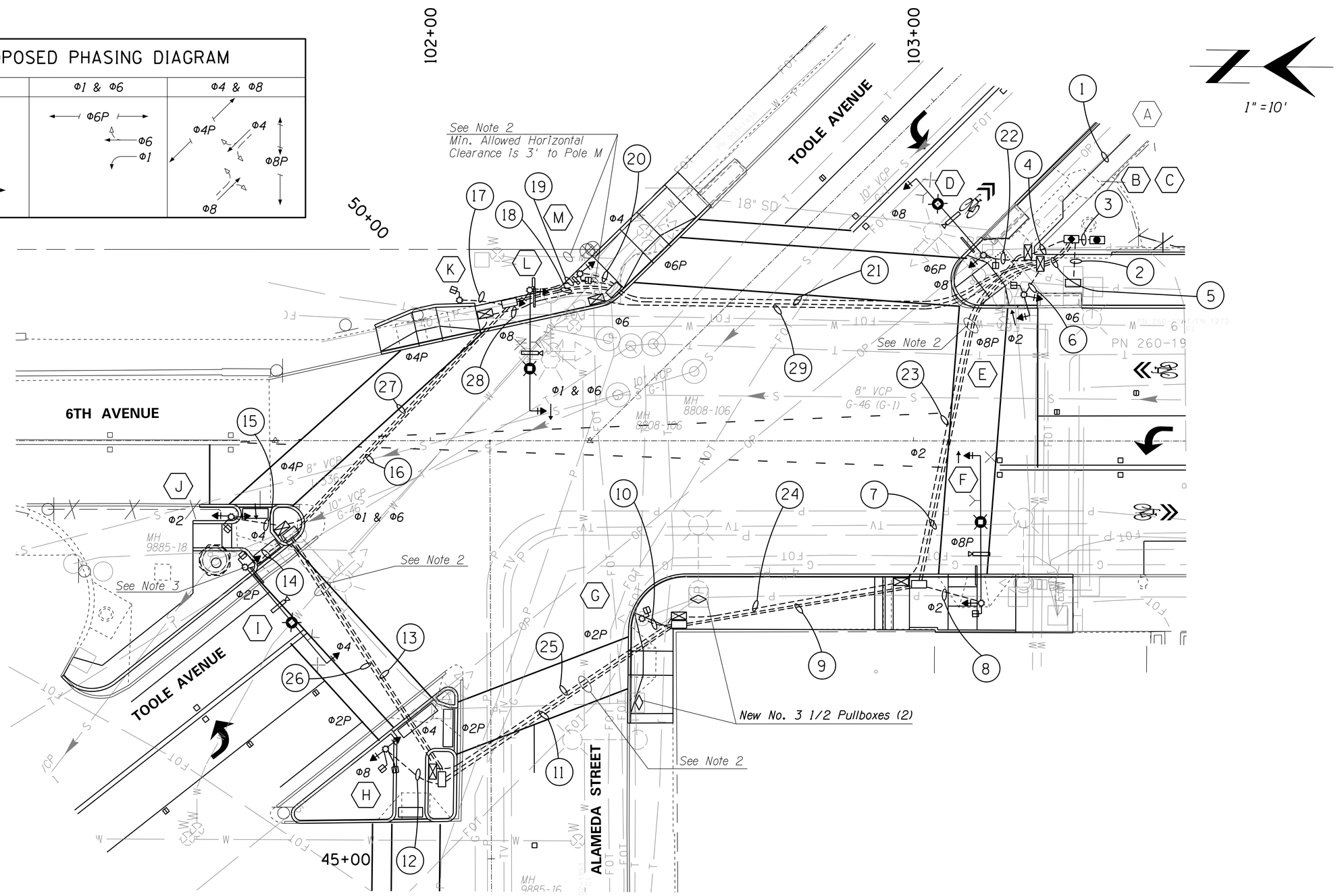

Notes

1. All equipment locations shall be confirmed by the engineer in the field prior to construction.
2. Pothole to verify clearance to waterline prior to placing conduit. Clearance requirement is 1' vertical separation for conduit, 5' horizonal offset from existing 6" CI and 8" CI waterlines to new traffic signal poles, unless otherwise noted on the plans.
3. Contractor shall use caution in installing traffic signal foundation for pole (I) with regards to the existing sanitary sewer line. An approved Flow Management Plan shall be in place prior to construction. See Special Provisions.

6TH AVE /TOOLE AVE
TRAFFIC SIGNAL PLAN

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CITY OF TUCSON

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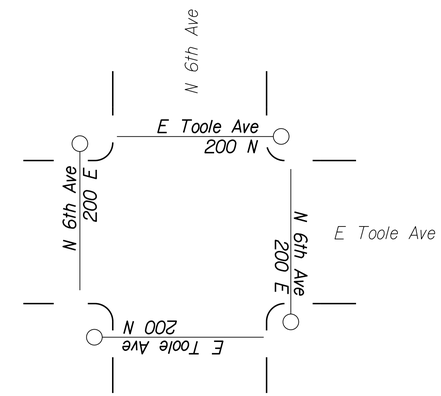
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

CABINET AND POLE SCHEDULE

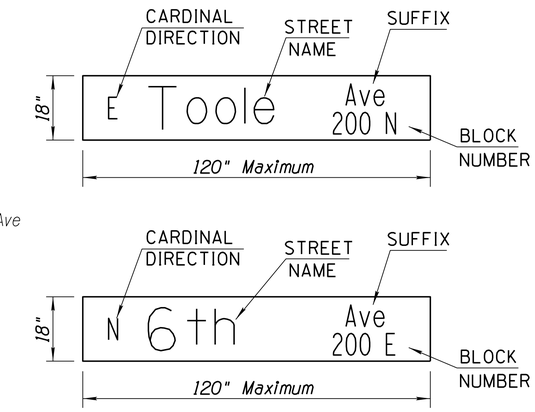
TRAFFIC SIGNAL CONTROL					REMARKS	LOCATION
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION		
(A)	—	—	—	—	Existing Service	Pennington St/Toole Avenue Intersection
(B)	T 313 TYPE V	NEMA TS-2	30A/2P LIGHTING CONTACTOR			STA 103+32.70, 41.7' Lt 6TH AVE ℄
(C)					UPS (Uninterrupted Power Source) DUI 24J11, Aluminum BBS Enclosure w/Fan 19.5W x 16D x 36H-COT Supplied	STA 103+37.90, 41.7' Lt 6TH AVE ℄

POLE		MAST ARMS		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
NUMBER	TYPE	SIGNAL	LUMINARE	MOUNTING	ASS'Y				
(D)	"F" T 406	20'	15'	(1)TYPE II T 901 (1)TYPE V T 903 TYPE XI T 909	(2) F T 801 "M/H" T 804	—	T 406	4000 K, Arm Mounted LED 'Hallbrook Ext-GlasWerks II' style. (Special Provisions). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm. Install Photo Cell on Pole (D).	(D) Sta 50+84.91, 29.88' Rt Toole Ave ℄
(E) (J)	"A" T 401 10'	—	—	(1)TYPE VI T 904 TYPE XI T 909	(1) F T 801 (1) Q T 801 "M/H" T 804	—	T 401		(E) Sta 103+22.84, 30.28' Lt 6th Ave ℄ (J) Sta 101+58.79, 15.78' Rt 6th Ave ℄
(H) (M)	"A" T 401 10'	—	—	(1)TYPE VI T 904 TYPE XI T 909	(2) F* T 801 "M/H" T 804	—	T 401	Reinstall salvaged Flood Control Pre-Emption on pole (M).	(H) Sta 33+81.7, 57.0' Rt Toole Ave ℄ (M) Sta 50+22.80, 23.46' Lt Toole Ave ℄
(F)	"Q" T 412	30'	15'	(1)TYPE II T 901 (1)TYPE V T 903 TYPE XI T 909	(1) F T 801 (1) Q T 801 "M/H" T 804	—	T 412	4000 K, Arm Mounted LED 'Hallbrook Ext-GlasWerks II' style. (Special Provisions). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm.	(F) Sta 103+14.03, 33.60' Rt 6th Ave ℄
(G) (K)	"A" T 401 10'	—	—	TYPE XI T 909	"M/H" T 804	—	T 401		(G) Sta 45+49.6, 31.4' Rt Alameda St ℄ (K) Sta 102+06.03 29.10' Rt 6th Ave ℄
(I)	"Q" T 412	25'	15'	(1)TYPE II T 901 (1)TYPE V T 903 TYPE XI T 909	(2) F T 801 "M/H" T 804	—	T 412	4000 K, Arm Mounted LED 'Hallbrook Ext-GlasWerks II' style. (Special Provisions). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm. Reinstall salvaged Flood Control Pre-Empt. See Note 12.	(I) Sta 33+93.84 11.04' Rt Toole Ave ℄
(L)	"Q" T 412	25'	15'	(1)TYPE II T 901 (1)TYPE VIII T 906	(1) F T 801 (1) Q T 801	—	T 412	4000 K, Arm Mounted LED 'Hallbrook Ext-GlasWerks II' style. (Special Provisions). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm. Reinstall salvaged Flood Control Pre-Empt. See Note 12.	(L) Sta 102+20.56 31.19' Lt 6th Ave ℄

* See Note 11



STREET NAME SIGN LEGEND
NTS



STREET NAME SIGN DETAIL
NTS

STREET NAME SIGN NOTES

1. Street name signs shall be 18" deep aluminum panels, 0.125 gauge.
2. Lettering shall be initial uppercase (12") followed by lower case letters (10"). Secondary letters (e.g. cardinal direction, suffix) shall be 6".
3. Street name signs shall use diamond grade sheeting.
4. Mount street name signs flagpole style. See Special Provision for flagpole style mount details.

EQUIPMENT NOTES

1. Fire pre-emption system (TOMAR) Shall include 4-STROBECOM II 2090-SD detectors with 2140 optical signal processor card with 4-2080 SPM (modules) and 1881 cage and harness or equivalent.
2. Install street name sign on poles D, F, I, and L with approved new mounting hardware. See Special Provisions.
3. All cables from device or termination to controller shall be unspliced.
4. Separate power from signal cables in conduit runs.
5. Mast arms for all poles shall be furnished with welded tenons only.
6. The video detection system shall be furnished by the COT and installed by the contractor. Provide a dedicated power circuit for video system.
7. Install video detection system on poles D, F, I, and L. Install cameras at luminaire.
8. For Wi-Fi installation contact Francisco Leyva at 791-4259 for details.
9. Sign panels shall be straight and true with no bowing prior to and after applying the sheeting material.
10. All mast arm signals shall be Aluminum.
11. Reinstall salvaged Flood Control Pre-Empt on pole (M) instead of Type F Assembly. Use Type VI Mounting Assembly.
12. Reinstall salvaged Flood Control Pre-Empt on poles (I) and (L) on mast arm, 5' from signal pole using "Pelco Astro-Brac" type of mounting hardware.

6TH AVE /TOOLE AVE
TRAFFIC SIGNAL PLANS–POLE SCHEDULE 3 OF 11

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CITY OF TUCSON

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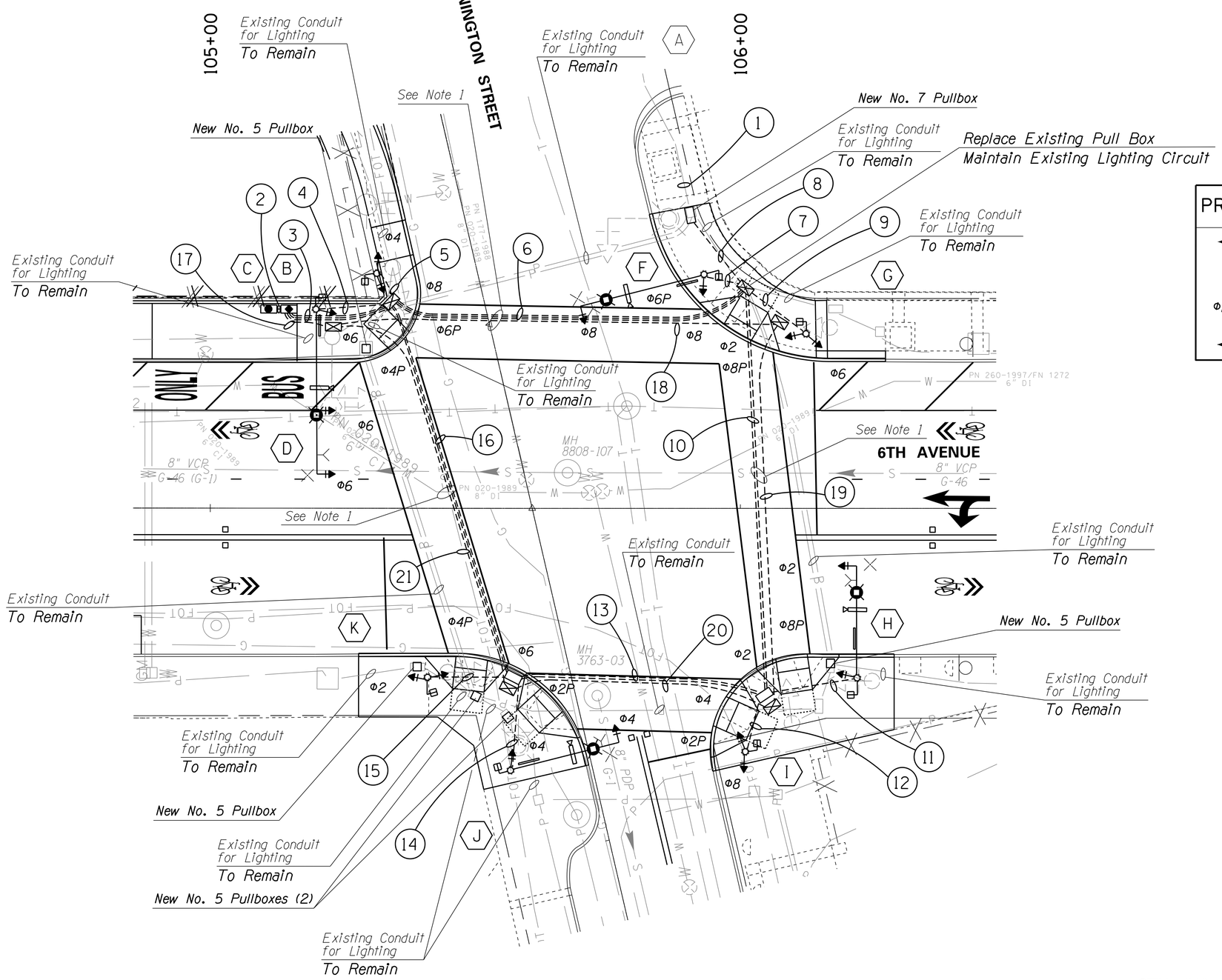
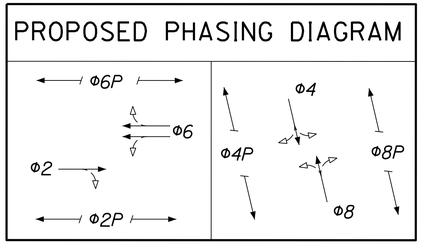


PROPOSED PHASING DIAGRAM



Notes

1. Pothole to verify clearance to waterline prior to placing conduit. Clearance requirement is 1' vertical separation for conduit, 5' horizonal offset from existing 6" CI waterline to new traffic signal poles.
2. Contractor shall maintain existing lighting circuits at the intersection. Existing lighting pull boxes are to be replaced. Modification to existing lighting conductors and conduit shall be covered under Miscellaneous Electrical Work.

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6TH AVE /PENNINGTON ST
TRAFFIC SIGNAL PLAN **4 OF 11**

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CITY OF TUCSON

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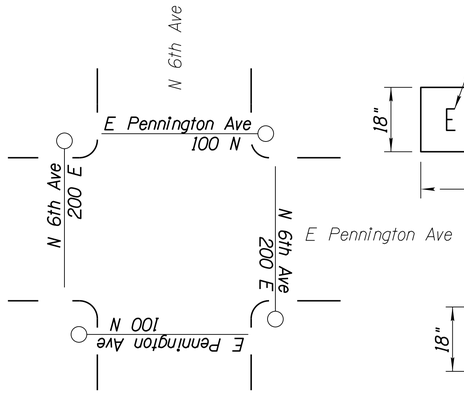
CABINET AND POLE SCHEDULE

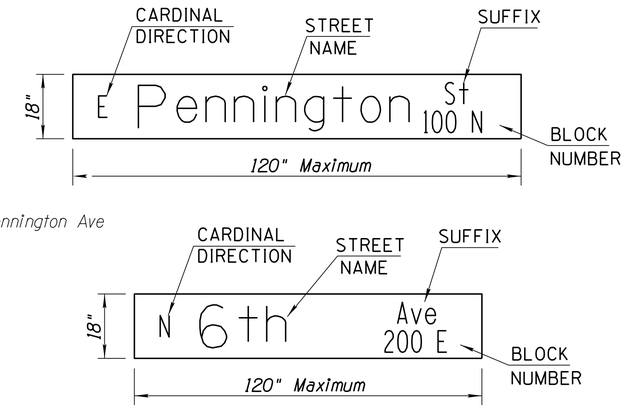
TRAFFIC SIGNAL CONTROL					REMARKS	LOCATION
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION		
(A)	—	—	—	—	Existing Service	Pennington St/Toole Avenue Intersection
(B)	T 313 TYPE V	NEMA TS-2	30A/2P LIGHTING CONTACTOR			STA 105+14.90, 37.60' Lt
(C)					UPS (Uninterrupted Power Source) DUI 24J11, Aluminum BBS Enclosure w/Fan 19.5W x 16D x 36H-COT Supplied	STA 105+10.90, 37.60' Lt

POLE		MAST ARMS		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
NUMBER	TYPE	SIGNAL	LUMINARE	MOUNTING	ASS'Y				
(D) 12'	"Q" T 412	30'	20'	(2)TYPE II T 901 (1) Type V T 903 TYPE XI T 909	(3) F T 801 "M/H" T 804	—	T 412	4000 K, Arm Mounted LED 'Hallbrook Ext-GlasWerks II' style. (Special Provisions). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm. Install Photo Cell on Pole (D).	(D) Sta 105+20.0, 37.6' Lt
(E) (G) (I) (K)	"A" T 401 10'	—	—	(1)TYPE VI T 904 TYPE XI T 909	(2) F T 801 "M/H" T 804	—	T 401		(E) Sta 105+31.4, 44.3' Lt (G) Sta .106+12.4' 32.0' Lt (I) Sta 106+01.0, 46.0' Rt (K) Sta 105+41.0, 31.9' Rt
(F) (H) (J)	"F" T 406	20'	15'	(1)TYPE II T 901 (1) Type V T 903 TYPE XI T 909	(2) F T 801 "M/H" T 804	—	T 406	4000 K, Arm Mounted LED 'Hallbrook Ext-GlasWerks II' style. (Special Provisions). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm.	(F) Sta 105+93.0, 44.0' Lt (H) Sta 106+22.0, 32.0' Rt (J) Sta 105+56.7, 49.5' Rt

NOTE: Stationing Based on 6th Avenue ℄.



STREET NAME SIGN LEGEND
NTS



STREET NAME SIGN DETAIL
NTS

STREET NAME SIGN NOTES

1. Street name signs shall be 18" deep aluminum panels, 0.125 gauge.
2. Lettering shall be initial uppercase (12") followed by lower case letters (10"). Secondary letters (e.g. cardinal direction, suffix) shall be 6".
3. Street name signs shall use diamond grade sheeting.
4. Mount street name signs flagpole style. See Special Provisions for flagpole style mount details.

EQUIPMENT NOTES

1. Fire pre-emption system (TOMAR) Shall include 4-STROBECOM II 2090-SD detectors with 2140 optical signal processor card with 4-2080 SPM (modules) and 1881 cage and harness or equivalent.
2. Install street name sign on poles D, F, H, and J with approved new mounting hardware. See Special Provisions.
3. All cables from device or termination to controller shall be unspliced.
4. Separate power from signal cables in conduit runs.
5. Mast arms for all poles shall be furnished with welded tenons only.
6. The video detection system shall be furnished by the COT and installed by the contractor. Provide a dedicated power circuit for video system.
7. Install video detection system on poles D, F, H, and J. Install cameras at luminaire.
8. For Wi-Fi installation contact Francisco Leyva at 791-4259 for details.
9. Sign panels shall be straight and true with no bowing prior to and after applying the sheeting material.
10. All mast arms signals shall be Aluminum.

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6TH AVE /PENNINGTON ST
TRAFFIC SIGNAL PLANS – POLE SCHEDULE **5 OF 11**

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CITY OF TUCSON

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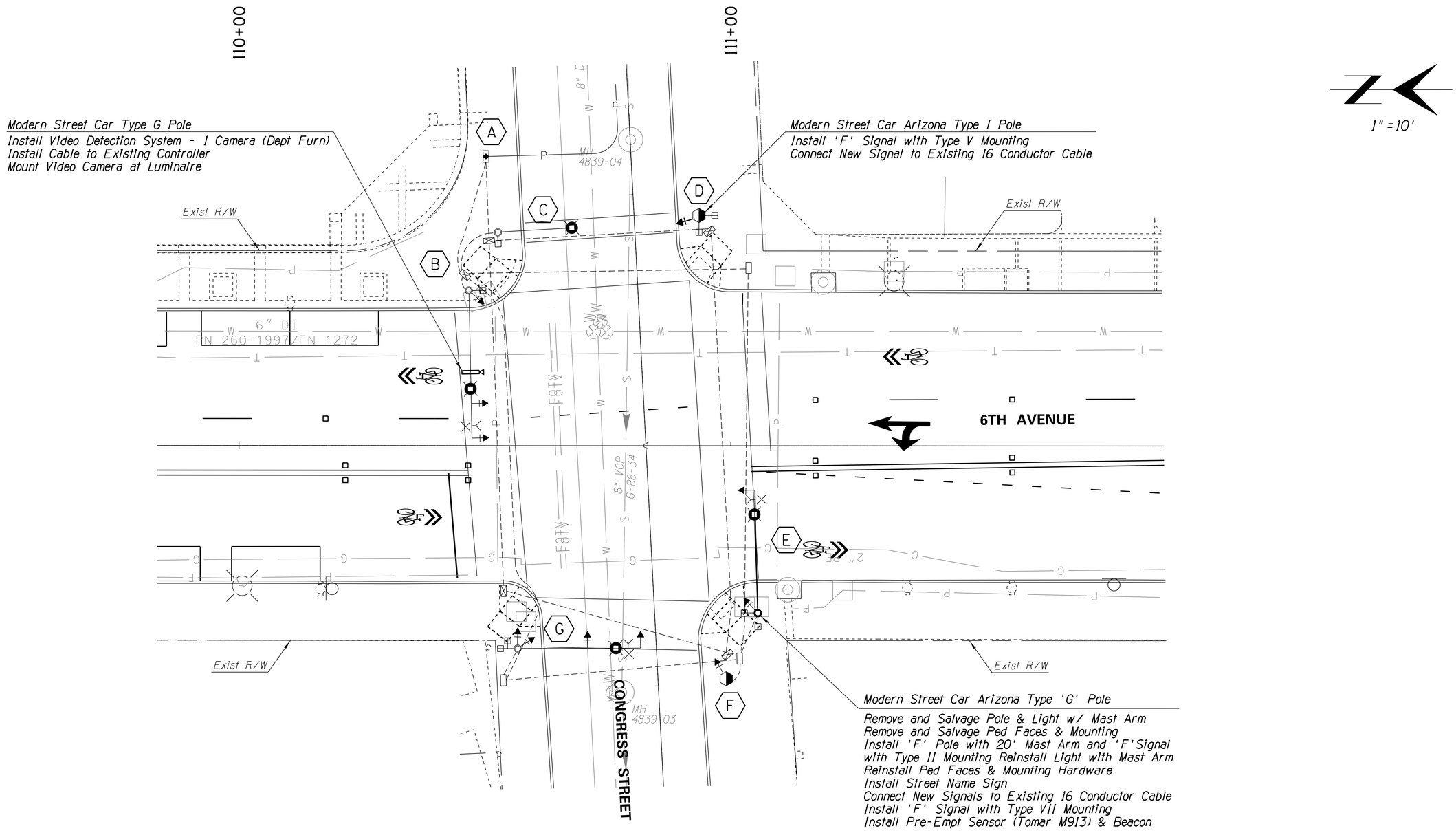

6TH AVE /CONGRESS ST
TRAFFIC SIGNAL PLAN **6 OF 11**

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CITY OF TUCSON

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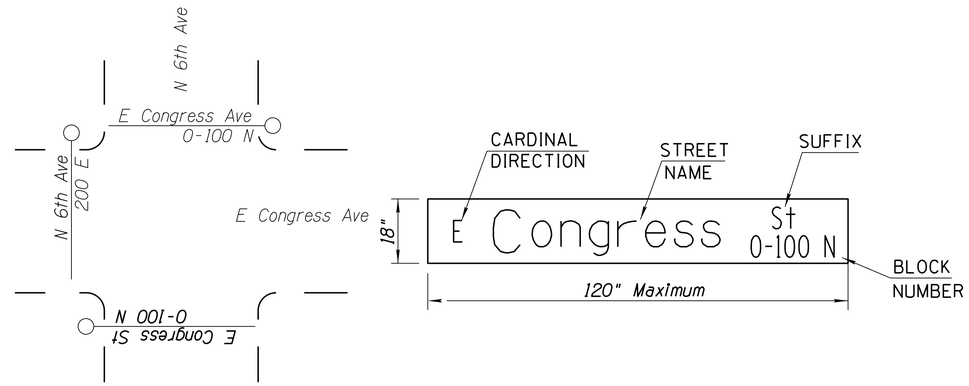
CABINET AND POLE SCHEDULE

TRAFFIC SIGNAL CONTROL					REMARKS	LOCATION
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION		
A	—	NEMA TS-2	—	—	EXISTING	—

POLE		MAST ARMS		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
NUMBER	TYPE	SIGNAL	LUMINARE	MOUNTING	ASS'Y				
B	—	—	—			—	—	EXISTING POLE MOUNT VIDEO CAMERA AT LUMINAIRE	—
C	—	—	—	—	—	—	—	EXISTING TO REMAIN	—
D	—	—	—	NEW (1) TYPE IV T 903	NEW (1) 'F' T 801	—	—	EXISTING POLE ADD NEW F HEAD TO SIGNAL POLE	—
E	'F' T 406	20'	—	NEW (1) TYPE I T 905 EXIST TYPE II T901	NEW (1) 'F' T 801 EXIST (1) 'F' T 801	—	—	INSTALL STREET NAME SIGN INSTALL PRE-EMPT SENSOR AND BEACON ON MAST ARM	E Sta 111+05.50, 34.0' Rt 6th Ave ℄
F	—	—	—	—	—	—	—	EXISTING TO REMAIN	—
G	—	—	—	—	—	—	—	EXISTING TO REMAIN	—



STREET NAME SIGN LEGEND
NTS

STREET NAME SIGN DETAIL
NTS

STREET NAME SIGN NOTES

1. *Street name signs shall be 18" deep aluminum panels, 0.125 gauge.*
2. *Lettering shall be initial uppercase (12") followed by lower case letters (10"). Secondary letters (e.g. cardinal direction, suffix) shall be 6".*
3. *Street name signs shall use diamond grade sheeting.*
4. *Mount street name signs flagpole style. See Special Provisions for flagpole style mount details.*

EQUIPMENT NOTES

1. *Fire pre-emption system (TOMAR) Shall include 4-STROBECOM II 2090-SD detectors with 2140 optical signal processor card with 4-2080 SPM (modules) and 1881 cage and harness or equivalent.*
2. *Install street name sign on pole E with approved new mounting hardware. See Special Provisions.*
3. *All cables from device or termination to controller shall be unspliced.*
4. *Mast arms for all poles shall be furnished with welded tenons only.*
5. *Sign panels shall be straight and true with no bowing prior to and after applying the sheeting material.*
6. *All mast arms signals shall be Aluminum.*

Two working days before you dig.
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Blue Stake Center
CALL COLLECT

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(520-882-6424)

NO.	DATE	REVISION	BY	CHKD.	APPR.

6TH AVE /CONGRESS ST
TRAFFIC SIGNAL PLANS – POLE SCHEDULE 7 OF 11

PRELIMINARY
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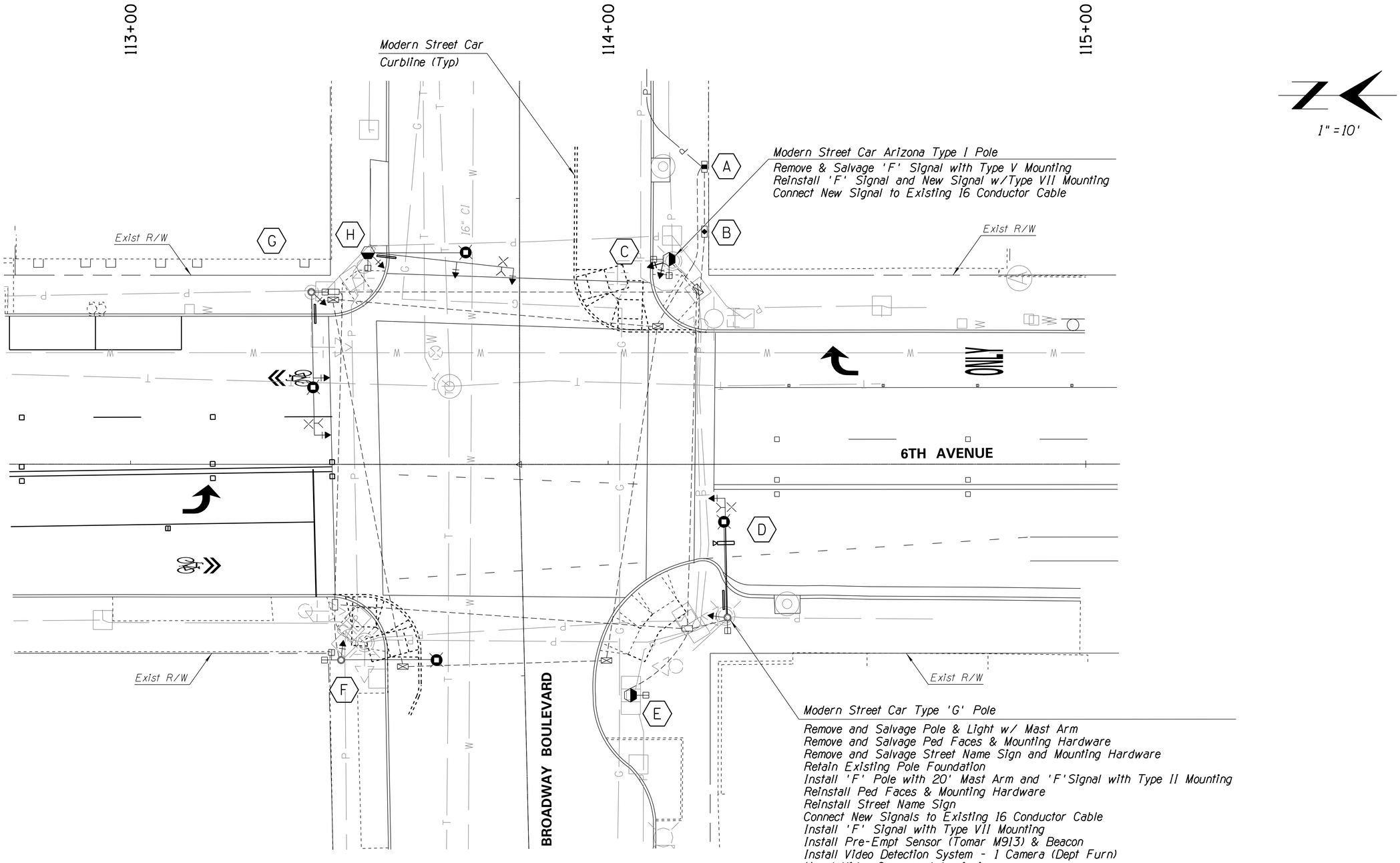
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

29 OF 37

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No. N/A	SCALE: NTS
DSGN. BY K Hubbard	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	



6TH AVE /BROADWAY BLVD
TRAFFIC SIGNAL PLAN

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PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No. N/A	SCALE: H: 1"=10'
DSGN. BY K Hubbard	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

CABINET AND POLE SCHEDULE

TRAFFIC SIGNAL CONTROL					REMARKS	LOCATION
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION		
A	—	—	—	—	EXISTING	
B	—	—	—	—	EXISTING	

POLE		MAST ARMS		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
NUMBER	TYPE	SIGNAL	LUMINARE	MOUNTING	ASS'Y				
C	—	—	—	NEW (1) TYPE IV T 905		—	—	EXISTING POLE. ADD NEW TYPE VII MOUNTING ASSEMBLY & REINSTALL EXIST 'F' HEAD	—
D	'F' T 406	20'	—	NEW (1) TYPE VI T 905 EXIST (1) TYPE II T 901	NEW (1) 'F' T 801 EXIST (1) 'F' T 801	—	—	REINSTALL STREET NAME SIGN INSTALL PRE-EMPT SENSOR AND BEACON ON MAST ARM MOUNT VIDEO CAMERA AT LUMINAIRE	D STA 114+24.54, 31.74' RT
E	—	—	—	—	—	—	—	EXISTING TO REMAIN	—
F	—	—	—	—	—	—	—	EXISTING TO REMAIN	—
G	—	—	—	—	—	—	—	EXISTING TO REMAIN	—
H	—	—	—	—	—	—	—	EXISTING TO REMAIN	—

EQUIPMENT NOTES

1. *Fire pre-emption system (TOMAR) Shall include 4-STROBECOM II 2090-SD detectors with 2140 optical signal processor card with 4-2080 SPM (modules) and 1881 cage and harness or equivalent.*
2. *Mast arms for all poles shall be furnished with welded tenons only.*
3. *Sign panels shall be straight and true with no bowing prior to and after applying the sheeting material.*
4. *All mast arms signals shall be Aluminum.*

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6TH AVE /BROADWAY BLVD
TRAFFIC SIGNAL PLANS – POLE SCHEDULE 9 OF 11

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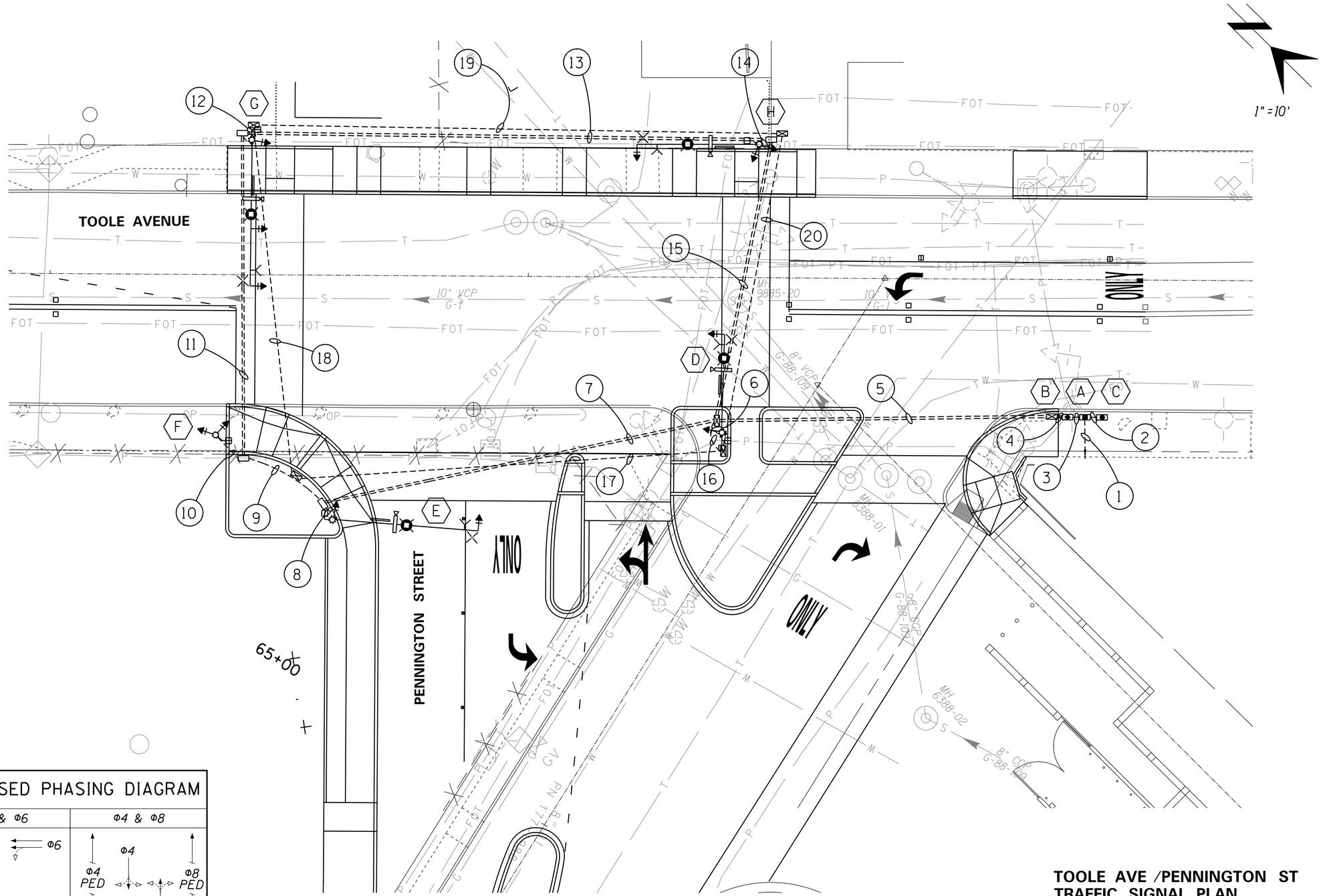
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

31 OF 37

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No. N/A	SCALE: NTS
DSGN. BY K Hubbard	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	



PROPOSED PHASING DIAGRAM

Φ2 & Φ6	Φ4 & Φ8
Φ6 Φ2 Φ2 PED	Φ4 Φ4 PED Φ8 PED Φ8

TOOLE AVE /PENNINGTON ST
TRAFFIC SIGNAL PLAN **10 OF 11**

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DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

32 OF 37

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No. N/A	SCALE: H: 1"=10'
DSGN. BY K Hubbard	2013		
CHKD. BY J Koesters	2013	PLAN NO. 1-2012-009	

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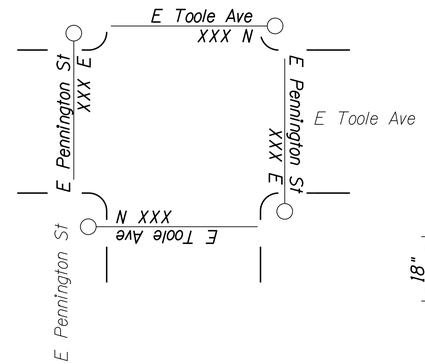
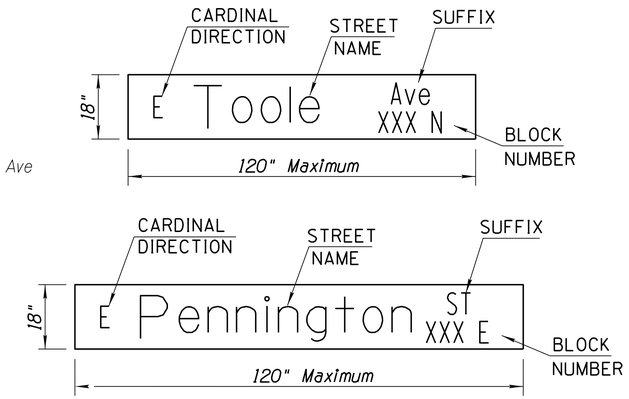
CABINET AND POLE SCHEDULE

TRAFFIC SIGNAL CONTROL					REMARKS	LOCATION
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION		
A	T 1801	METER SERVICE PEDESTAL		T 1801	50A/2P CB - SIGNAL 30A/1P CB - CKT 1 30A/1P CB - CKT2 30A/1P CB - CKT 3 (2) 20A/1P CB - SPARE	
B	T 313 TYPE V	NEMA TS-2	30A/2P LIGHTING CONTACTOR			
C					UPS (Uninterrupted Power Source) DUI 24J11, Aluminum BBS Enclosure w/Fan 19.5W x 16D x 36H-COT Supplied	

POLE		MAST ARMS		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
NUMBER	TYPE	SIGNAL	LUMINARE	MOUNTING	ASS'Y				
D	"F" T 406	20'	15'	(1)TYPE II T 901 (1)TYPE V T 903 (2)TYPE XI T 909	(2) "F" T 801 (2) "M/H" T 804	TYPE I T 1101 R10-4(L) T 1103 R10-4(R) T 1103	T 406	400 W, 120V HPS w/ Type III Full Cut off 'Hallbrook' (Special Provision). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm. Install Photo Cell on Pole D	
E	"Q" T 412	30'	15'	(1)TYPE II T901 (1)TYPE V T 903 (1)TYPE XI T 909	(2) F T 801 "M/H" T 804	TYPE I T 1101 R10-4(L) T 1103	T 412	400 W, 120V HPS w/ Type III Full Cut off 'Hallbrook' (Special Provision). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm.	
F	"A" T 401 10'	—	—	(1)TYPE VI T 904 TYPE XI T 909	(2) F T 801 "M/H" T 804	TYPE I T 1101 R10-4(R) T 1103	T 401	—	
G	"Q" T 412	30'	15'	(2)TYPE II T 901 (1)TYPE V T 903 (1)TYPE XI T 909	(3) F T 801 "M/H" T 804	TYPE I T 1101 R10-4(L) T 1103	T 412	400 W, 120V HPS w/ Type III Full Cut off 'Hallbrook' (Special Provision). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm.	
H	"Q" T 412	25'	15'	(1)TYPE II T 901 (1)TYPE V T 903 (1)TYPE XI T 909	(3) F T 801 "M/H" T 804	TYPE I T 1101 R10-4(R) T 1103	T 412	400 W, 120V HPS w/ Type III Full Cut off 'Hallbrook' (Special Provision). Mount Video Camera at Luminaire. Install Pre-Empt Sensor and Beacon on Mast Arm.	



STREET NAME SIGN LEGEND
NTS



STREET NAME SIGN DETAIL
NTS

STREET NAME SIGN NOTES

1. Street name signs shall be 18" deep aluminum panels, 0.125 gauge.
2. Lettering shall be initial uppercase (12") followed by lower case letters (10"). Secondary letters (e.g. cardinal direction, suffix) shall be 6".
3. Street name signs shall use diamond grade sheeting.
4. Mount street name signs flagpole style.

EQUIPMENT NOTES

1. Fire pre-emtion system (TOMAR) Shall include 4-STROBECOM II 2090-SD detectors with 2140 optical signal processor card with 4-2080 SPM (modules) and 1881 cage and harness or equivalent.
2. Install street name sign on poles D, F, J, and L with approved new mounting hardware. See Special Provisions.
3. All cables from device or termination to controller shall be unspliced.
4. Separate power from signal cables in conduit runs.
5. Mast arms for all poles shall be furnished with welded tenons only.
6. The video detection system shall be furnished by the COT and installed by the contractor. Provide a dedicated power circuit for video system.
7. Install video detection system on poles D, F, J, and L. Install cameras at luminaire.
8. For Wi-Fi installation contact Francisco Leyva at 791-4259 for details.
9. Sign panels shall be straight and true with no bowing prior to and after applying the sheeting material.
10. All mast arm signals shall be aluminum.

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TOOLE AVE /PENNINGTON ST
POLE SCHEDULE
11 OF 11

PRELIMINARY
30% Plans
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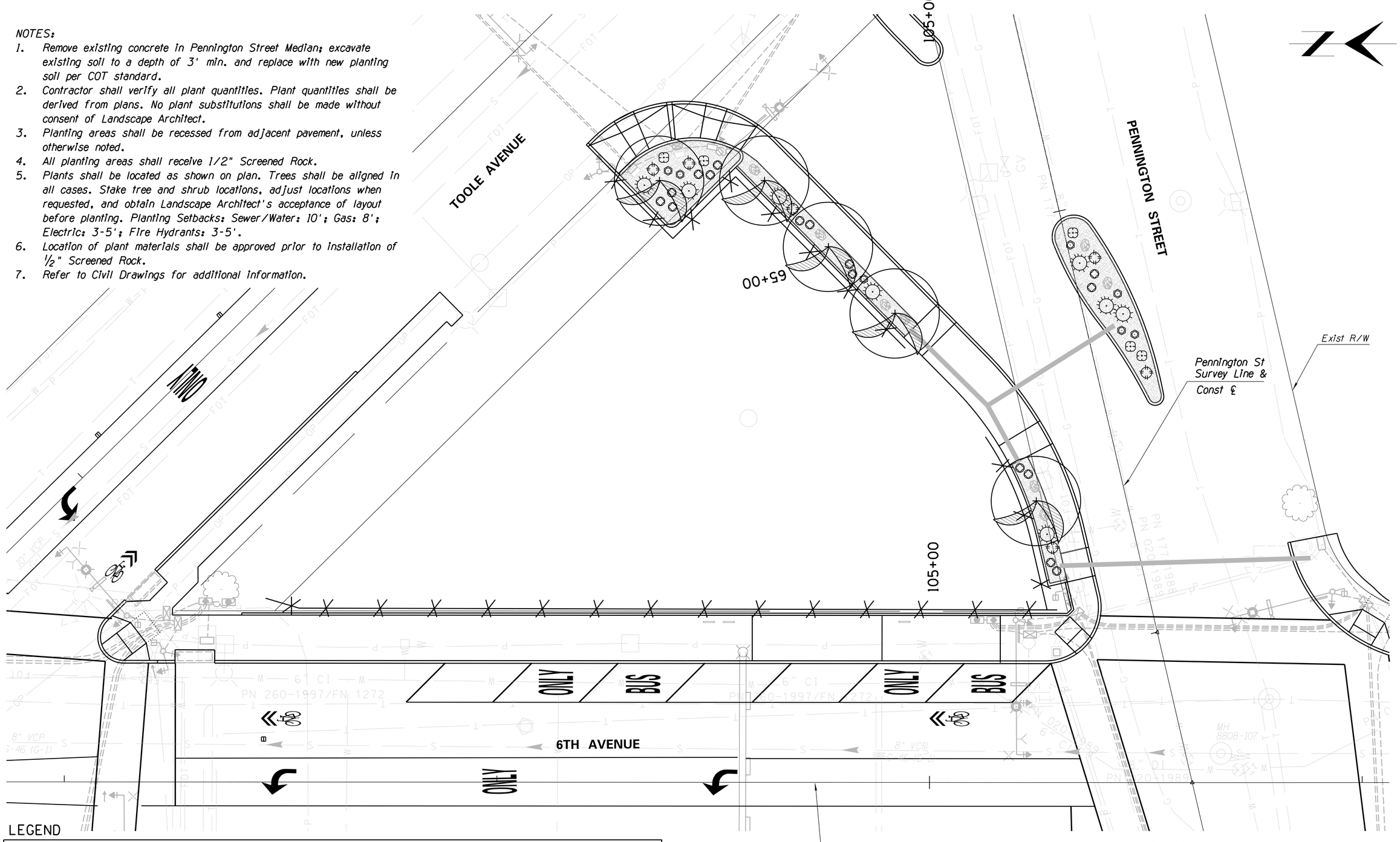
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS
33 OF 37

CITY OF TUCSON

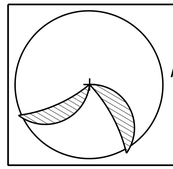
DRWN. BY CPG	2013	REF. COT Field Book No. N/A	SCALE: NTS
DSGN. BY K Hubbard	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

NOTES:

1. Remove existing concrete in Pennington Street Median; excavate existing soil to a depth of 3' min. and replace with new planting soil per COT standard.
2. Contractor shall verify all plant quantities. Plant quantities shall be derived from plans. No plant substitutions shall be made without consent of Landscape Architect.
3. Planting areas shall be recessed from adjacent pavement, unless otherwise noted.
4. All planting areas shall receive 1/2" Screened Rock.
5. Plants shall be located as shown on plan. Trees shall be aligned in all cases. Stake tree and shrub locations, adjust locations when requested, and obtain Landscape Architect's acceptance of layout before planting. Planting Setbacks: Sewer/Water: 10'; Gas: 8'; Electric: 3-5'; Fire Hydrants: 3-5'.
6. Location of plant materials shall be approved prior to installation of ½" Screened Rock.
7. Refer to Civil Drawings for additional information.



LEGEND



Hackberry, Celtis reticulata, 15 gal.

- Pink Fairy Duster, Calliandra eriophylla, 5 gal.
- Red Yucca, Hesperaloe parviflora "Perpa" Brakelights, 5 gal.
- Golden Barrel Cactus, Echinocactus grusonii, 8" height
- Fishhook Barrel Cactus, Ferocactus wislizeni, 8" height
- Saguaro, Carnegiea gigantea, 1'-3' height

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PLANTING PLAN

1 OF 1

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

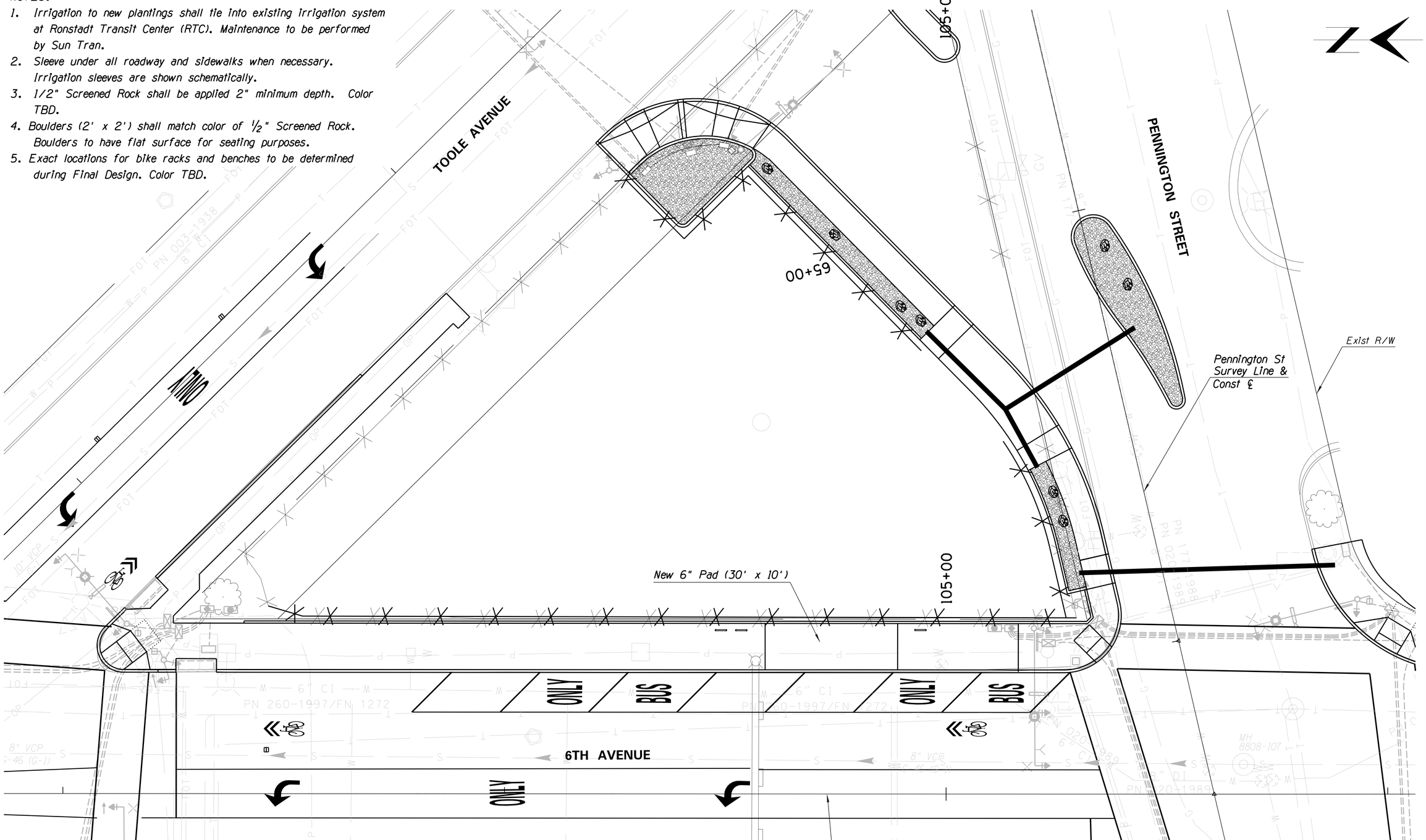
34 OF 37

CITY OF TUCSON

DRWN. BY H Flugstad	2013	REF. COT Field Book No.	SCALE: Hz 1"=10'
DSGN. BY H Flugstad	2013		
CHKD. BY L Mielcarek	2013	PLAN NO. I-2012-009	

NOTES:

1. Irrigation to new plantings shall tie into existing irrigation system at Ronstadt Transit Center (RTC). Maintenance to be performed by Sun Tran.
2. Sleeve under all roadway and sidewalks when necessary. Irrigation sleeves are shown schematically.
3. 1/2" Screened Rock shall be applied 2" minimum depth. Color TBD.
4. Boulders (2' x 2') shall match color of 1/2" Screened Rock. Boulders to have flat surface for seating purposes.
5. Exact locations for bike racks and benches to be determined during Final Design. Color TBD.



LEGEND

- 1/2" Screeened Rock
- Bike Rack
- Irrigation Sleeve
- Boulder

HARDSCAPE PLAN

1 OF 1

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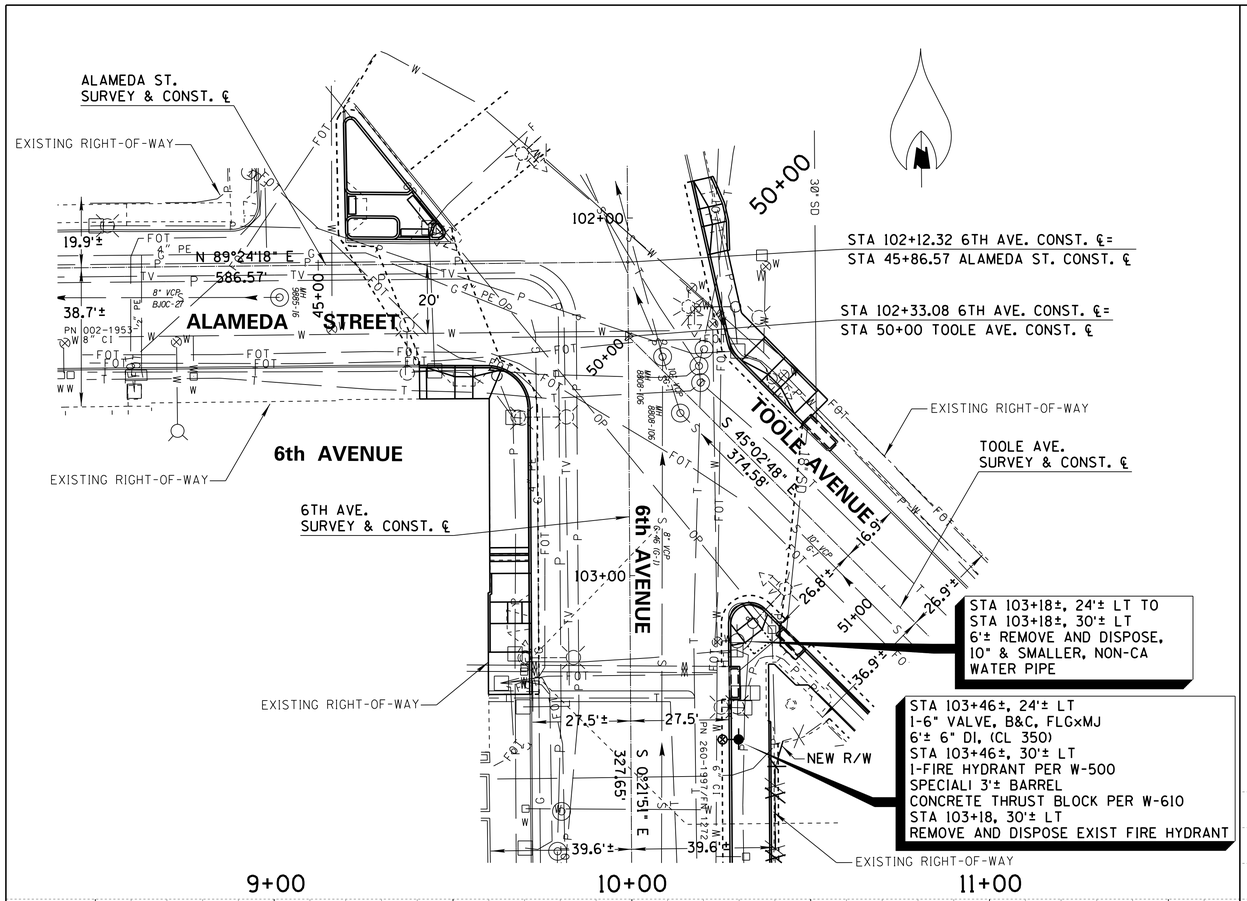
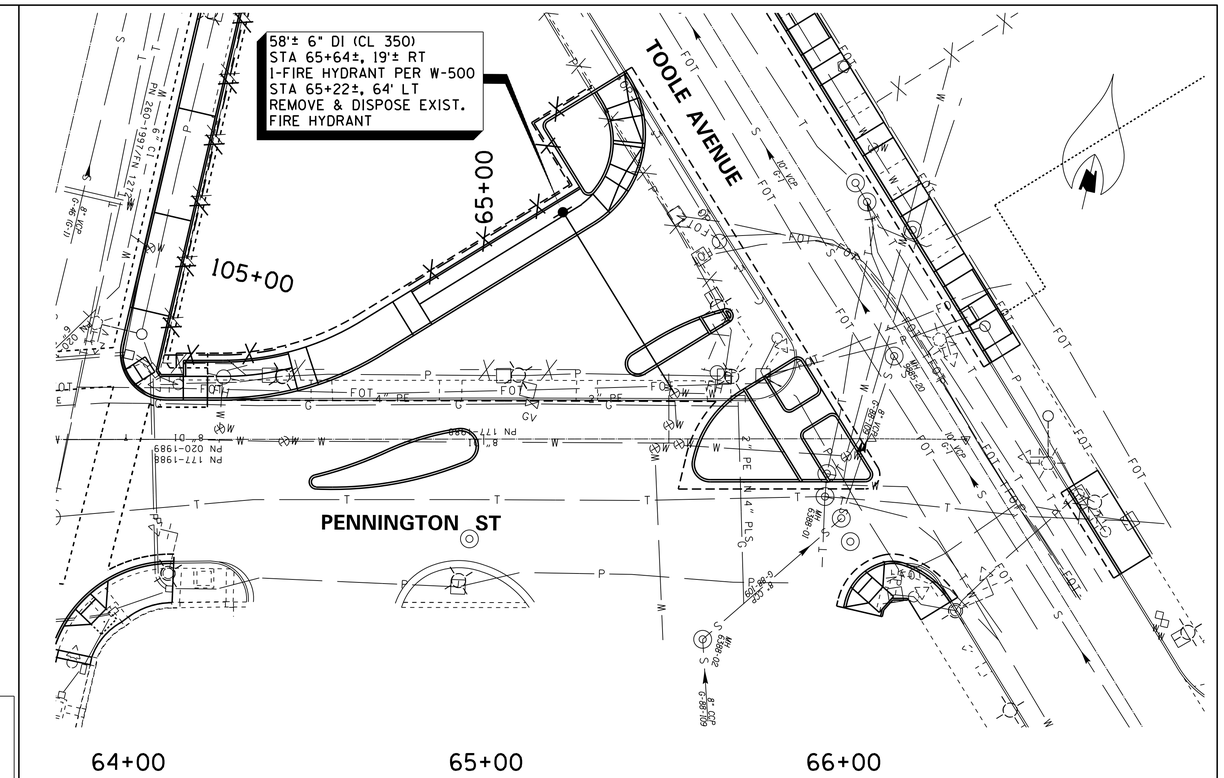
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

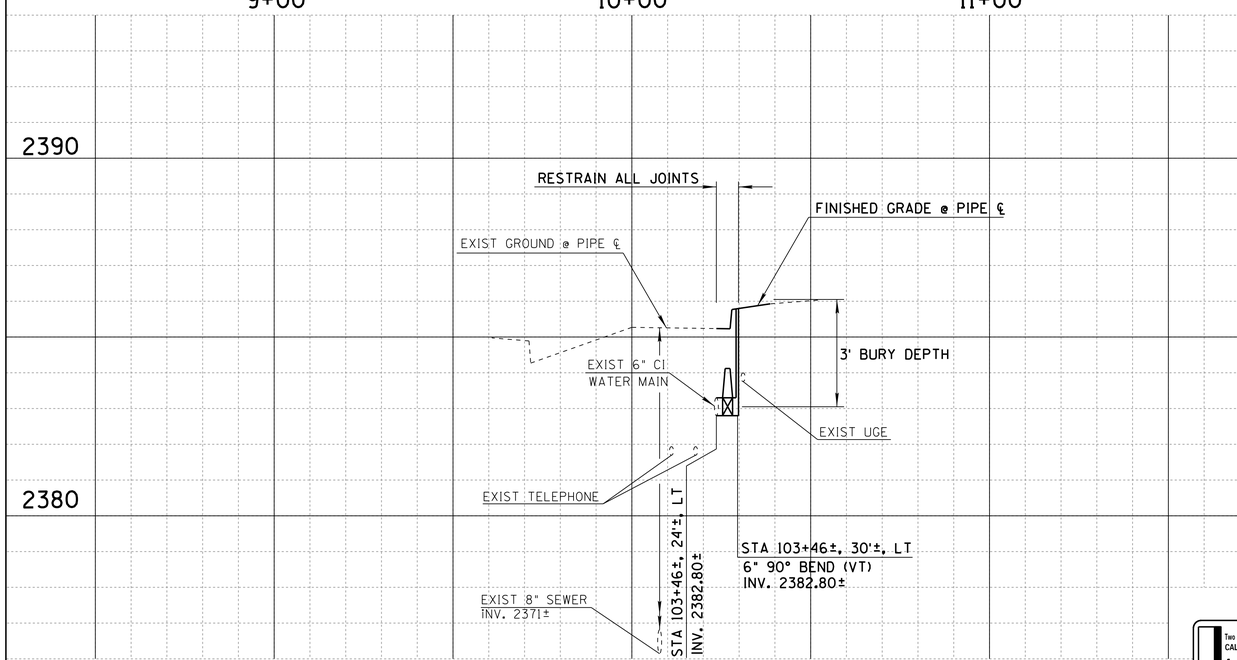
35 OF 37

CITY OF TUCSON

DRWN. BY H Flugstad	2013	REF. COT Field Book No.
DSGN. BY H Flugstad	2013	SCALE: H: 1"=10'
CHKD. BY L Mielcarek	2013	PLAN NO. I-2012-009







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WATER MODIFICATION PLAN

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PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

36 OF 37

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No.	SCALE: H: 1"=20' V: 1"=2'
DSGN. BY J Vaskovic	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

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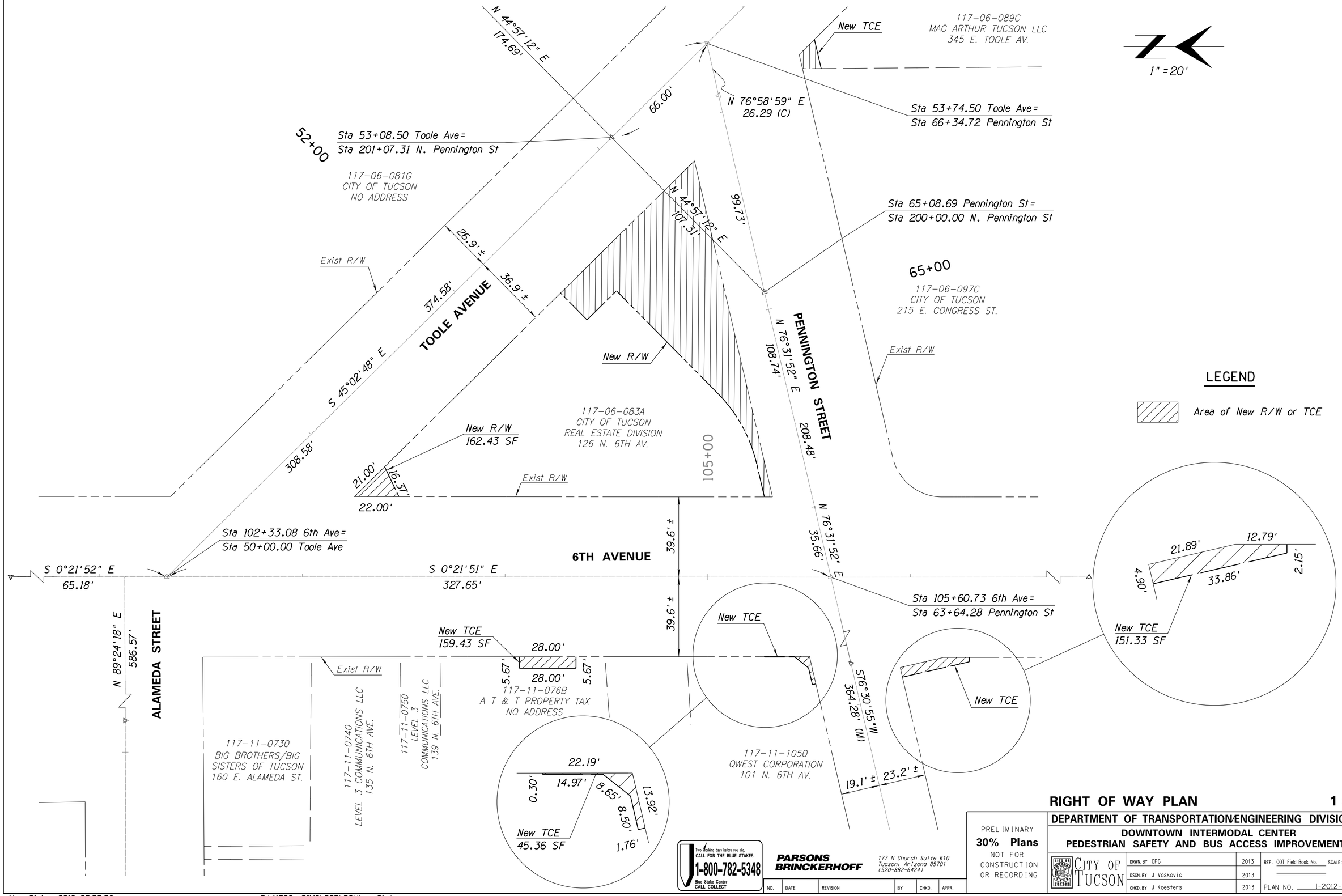

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RIGHT OF WAY PLAN

1 OF 1

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

37 OF 37

CITY OF TUCSON

DRWN. BY CPG	2013	REF. COT Field Book No.	SCALE: H: 1"=20'
DSGN. BY J Vaskovic	2013		
CHKD. BY J Koesters	2013	PLAN NO. I-2012-009	

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