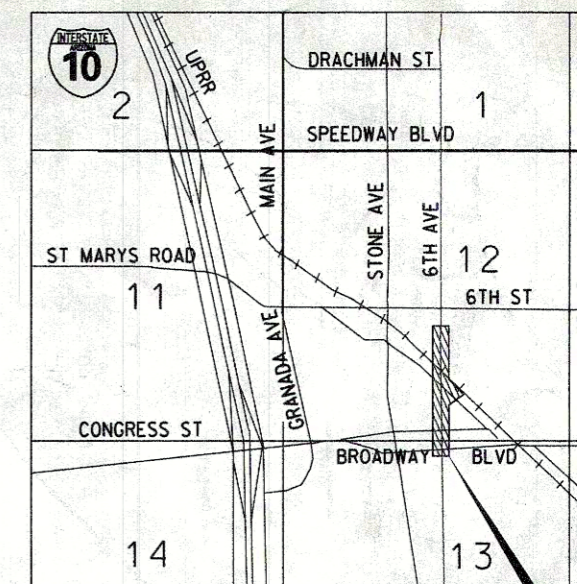


CITY OF TUCSON

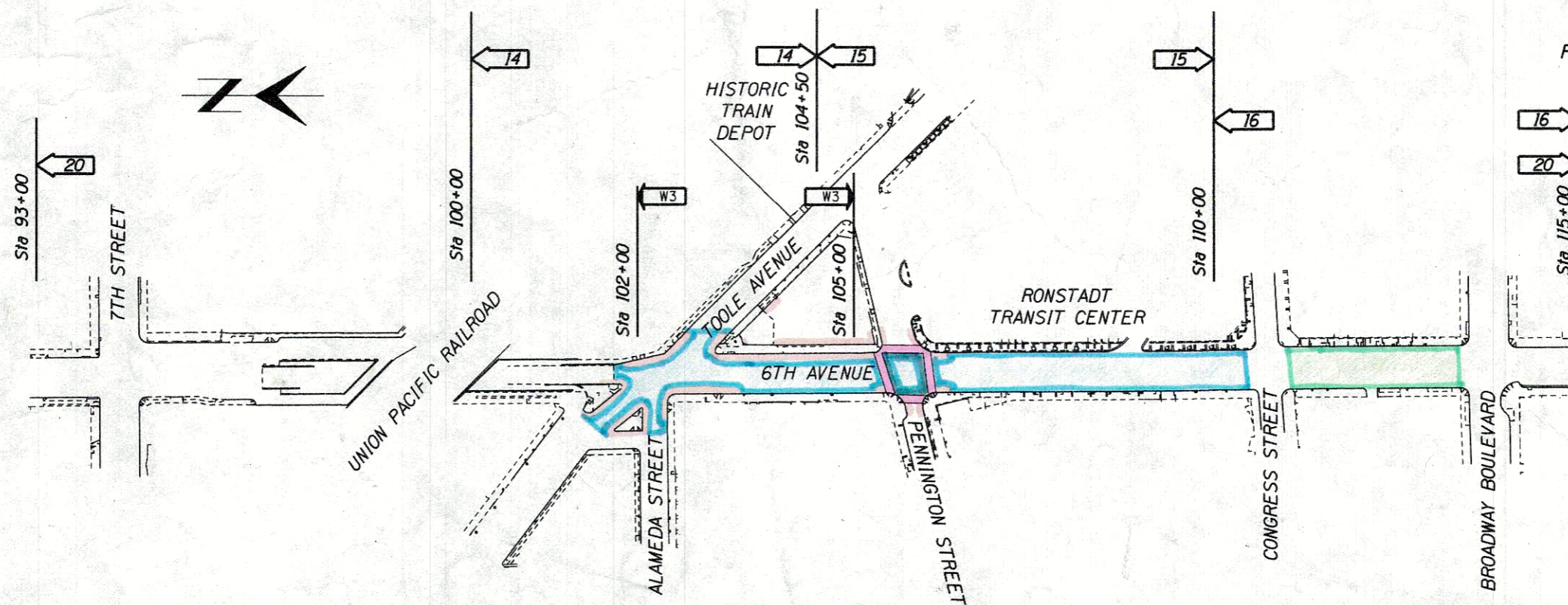
DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

6TH Avenue 2-Way Traffic Conversion
PLAN NO I-2012-009

*Project Begins Approximately 100 Feet South
of 7th Street and Extends Approximately
1800 Feet South to Broadway Boulevard.
Improvements Include Signing, Pavement Marking,
Traffic Signal Upgrades, and Pavement Rehabilitation
of 6th Avenue.*



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



Project Map
1" = 100'

| Page | Sheet | Description |
|-------|-------|-----------------------------|
| 1 | W1 | Master Cover Sheet |
| 2 | | General Notes Sheet |
| 3 | | Design Sheet |
| 4 | | Typical Sections |
| 5-6 | | Detail Sheet |
| 7 | | Survey Control Sheet |
| 8-10 | | Geometric Layout |
| 11-13 | | Demolition Plan |
| 14-16 | W4 | Roadway Plan |
| 17-18 | W2-W3 | Waterline Modification Plan |
| 19-20 | | Pavement Marking Plan |
| 21-24 | | Signing Plan |
| 25-36 | W5 | Traffic Signal Plans |
| 37 | | R/W & TCE Detail Sheet |

FOR ACCEPTANCE CONDITIONS, SEE THE WATERLINE MODIFICATION NOTES, NOTE 1, SHEET W2 OF W3.

[Signature]
CITY OF TUCSON WATER DEPARTMENT
Date 3/21/2014

BID SET CONTRACT NO. 141041

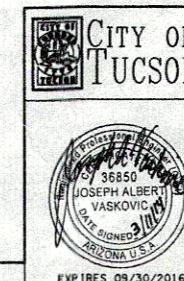
UPC 2012-065



MASTER COVER SHEET W1 OF W5

DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION

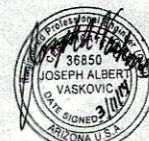
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS



| Approvals | Signature | Date | Approved | 1 |
|---|--------------------|------|----------|------|
| ENGINEERING ADMINISTRATOR | <i>[Signature]</i> | 4/14 | 7/1 | 2014 |
| TRAFFIC PLANNING & DESIGN ADMINISTRATOR | <i>[Signature]</i> | 4/14 | | |
| LANDSCAPE ARCHITECT | <i>[Signature]</i> | 7/1 | | |
| | <i>[Signature]</i> | | | 37 |

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

| NO. | DATE | REVISION | BY | CHKD. | APPR. |
|-----|------|----------|----|-------|-------|
| | | | | | |



EXPIRES 09/30/2016

REF. SCALE: As Noted
PLAN NO. I-2012-009

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 (NPP0). 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 Guidelines 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.

SEWER NOTES; PCRWRD NO. UPC 2012-065

1. All design standards, materials, and workmanship for public sanitary sewer 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 Offices at 201 N. Stone Avenue, 8th Floor.
2. The Contractor shall field verify existing sewer elevations and alignment prior to construction and implementation. Verification may require potholing.
3. City of Tucson/Pima County Standard Detail WWM 106 applies to this project.
4. Immediately report any release of sewage, and/or damage to or the dropping of debris into the public sanitary sewage conveyance system to either PCRWRD Field Engineering (520-740-2651) or PCRWRD Central Control Room (CCR) at 520-443-6048 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.
5. House or Business Connection Sewers (HCS or BCS) are not part of the public sanitary sewer conveyance system. Private Connection Sewers constructed prior to January 2006 are not required to be blue staked. Any HCS/BCS encountered during construction shall be protected, repaired, or rerouted, as the situation dictates (City of Tucson/Pima County Standard Detail WWM 404), at no expense to the property owner or the Pima County Regional Wastewater Reclamation Department.
6. Sewer construction shall not commence until: (A) Contractor has obtained a public sewer construction permit from Pima County Regional Wastewater Reclamation 520-740-6369 and (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. Flow Management Plans shall be submitted to Field Engineering thirty (30) day prior to the pre-construction meeting.
7. It is the Contractor's responsibility to adjust or reconstruct all sanitary sewer manholes to finished grade. All ring and cover adjustments are to be in accordance with City of Tucson/Pima County Standard Details 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 that any vent holes are open and clear of obstructions. If the frame and cover are damaged or cannot be completely cleaned a new frame and cover are to be put into place. Costs associated with these actions are the responsibility of the Contractor. Refer to City of Tucson/Pima County Details WWM 213.0-214.2 for requirements for rings and covers.

SEWER NOTES; PCRWRD NO. UPC 2012-065

8. Engineering Directive, ENG 2006-09, applies to any project that requires trenching within six (6) feet horizontally and/or two (2) feet vertically of an existing public sewer line. Preceding any work, that may affect a live sewer, it is the responsibility of the Contractor to: (A) Identify and include all Flow Management Costs in the construction bid and (B) provide a Flow Management Plan thirty (30) days prior to a Pre-Construction Meeting with Wastewater Field Engineering. Refer to City of Tucson/Pima County Detail WWM A-5 for Flow Management Plan requirements. Call Regional Wastewater Field Engineering at 520-740-2651 regarding all question involving the preparation of Flow Management Plans.
9. Contractor shall maintain access to all sanitary sewer manhole structures at all times.

FLOW MANAGEMENT PLAN (FMP)

1. The Contractor shall furnish, operate and maintain all equipment necessary to provide continuous 24 hr./day sewer service to all parties tributary to a live sewer to which a connection is to be made. Notify the Pima County Regional Wastewater Reclamation Department's Collection System Maintenance Section at (443-6500) 48 hours prior to starting any construction that could either adversely impact the flow within a live sewer, or involve connection to a sewer fifteen (15) inches (375 mm) in diameter or larger. New public sewers must be tested and inspected by PCRWRD prior to connection to public sewers.

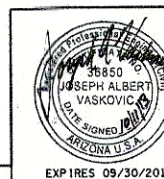
GENERAL NOTES SHEET



PARSONS BRINCKERHOFF

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

| NO. | DATE | REVISION | BY | CHKD. | APPR. |
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|---|------|-------------------------|------------|---------------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | | | 2 OF 37 |
| DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | | | |
| 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 | |

ABBREVIATIONS

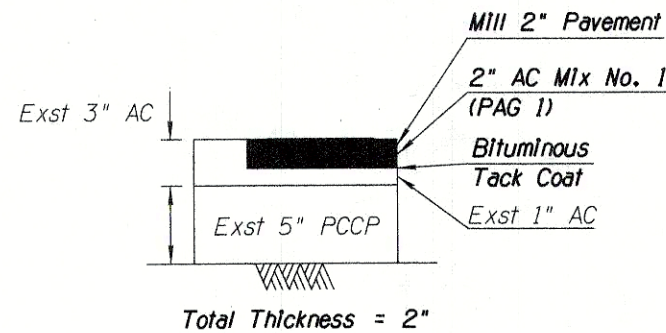
| | |
|---|---|
| AB = Aggregate Base | IP = Iron Pin |
| ABC = Aggregate Base Course | L = Length |
| AC = Asphaltic Concrete | LT = Left |
| ADOT = Arizona Department of Transportation | M&P = Maps and Plats |
| ADT = Average Daily Traffic | (M) = Measured |
| ARAC = Asphaltic Concrete (Asphalt-Rubber) | 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 |
| CB = Catch Basin | PCDOT = Pima County Dept. of Transp. |
| CL = Centerline | PCRWRD = Pima County Regional Wastewater Reclamation Department |
| (C) = Calculated | PG = Page |
| C.O. = Curb Opening | PT = Point of Tangency |
| CONC = Concrete | PVI = Point of Vertical Intersection |
| CONST = Construction | Pvmt = Pavement |
| CONT = Control | R = Radius |
| COR = Corner | RCBC = Reinforced Concrete Box Culvert |
| CORR = Correction Factor | RCP = Reinforced Concrete Pipe |
| COT = City Of Tucson | R/W = Right of Way |
| CY = Cubic Yard | RT = Right |
| DG = Decomposed Granite | SB = South Bound |
| DKT = Docket | SEC = Section |
| DTL = Detail | SL = Section Line |
| DWY = Driveway | Sta = Station |
| EA = Each | SD = Storm Drain |
| EB = East Bound | SWPPP = Storm Water Pollution Prevention Plan |
| ECR = End Curb Return | T = Tangent |
| EG = Existing Grade | TCE = Temporary Const. Easement |
| Elev = Elevation | TEP = Tucson Electric Power |
| EP = Edge of Pavement | Typ = Typical |
| ESMT = Easement | UTIL = Utility |
| EVC = End Vertical Curve | VC = Vertical Curve |
| Exst = Existing | WB = West Bound |
| FG = Finished Grade | WV = Water Valve |
| FD = Found | |
| FT = Feet | |
| G = Grade | |
| GU = Gutter | |
| H = Height | |

LEGEND

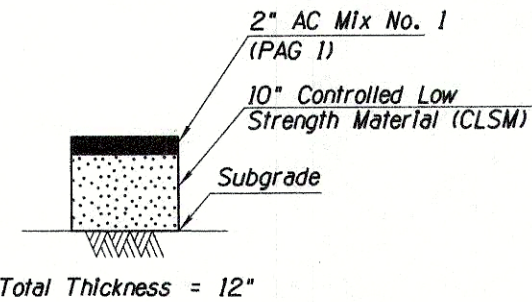
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DESIGN DATA

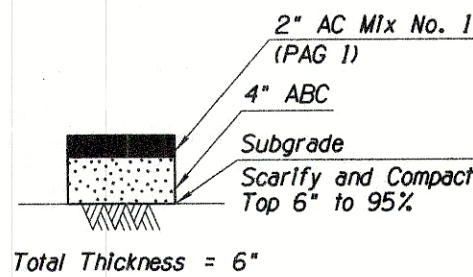
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|------------------------------|--------|---------------------------|
| Design Speed | = | 30 MPH |
| 6th Avenue | | |
| Traffic Volumes - 6th Avenue | | |
| 2010 ADT = | 5,400 | 6th St-Toole Ave |
| 2040 ADT = | 11,000 | 6th St-Toole Ave |
| 2040 ADT = | 15,000 | Toole Ave-Pennington St |
| 2040 ADT = | 8,000 | Pennington St-Congress St |
| 2040 ADT = | 11,000 | Congress St-Broadway Blvd |



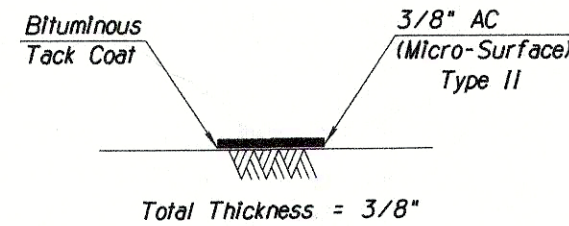
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NTS



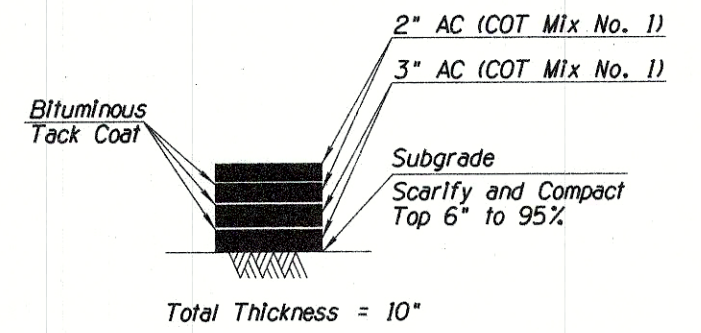
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PAVEMENT STRUCTURAL SECTION NO. 3
NTS



PAVEMENT STRUCTURAL SECTION NO. 4
NTS



PAVEMENT STRUCTURAL SECTION NO. 5
NTS

DESIGN SHEET

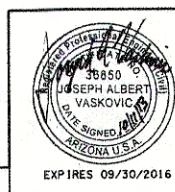
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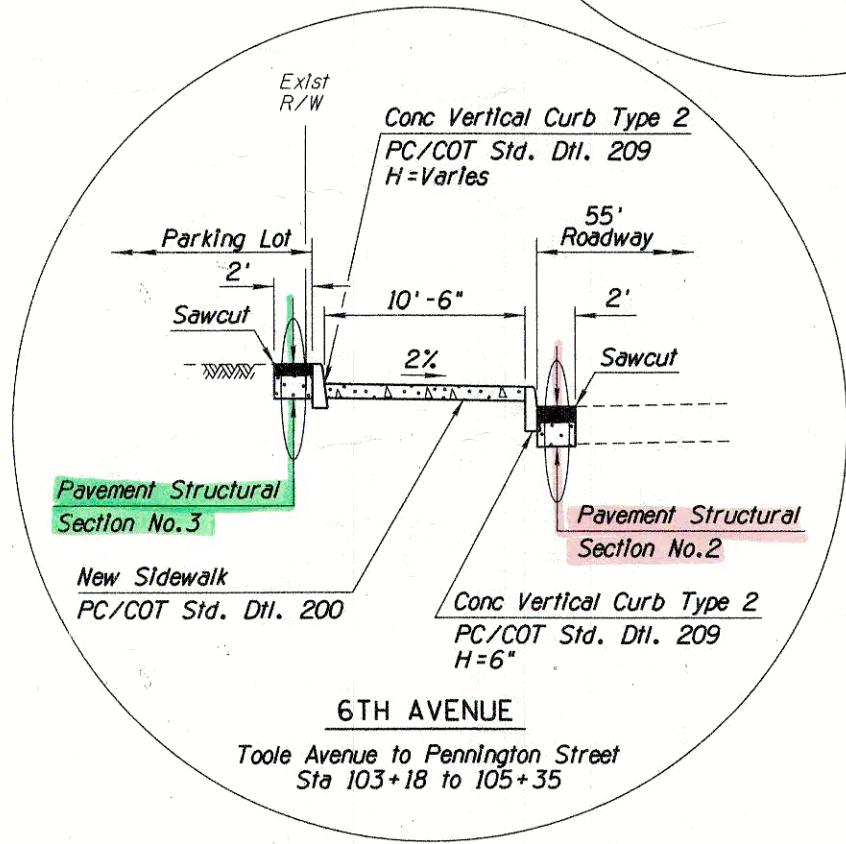
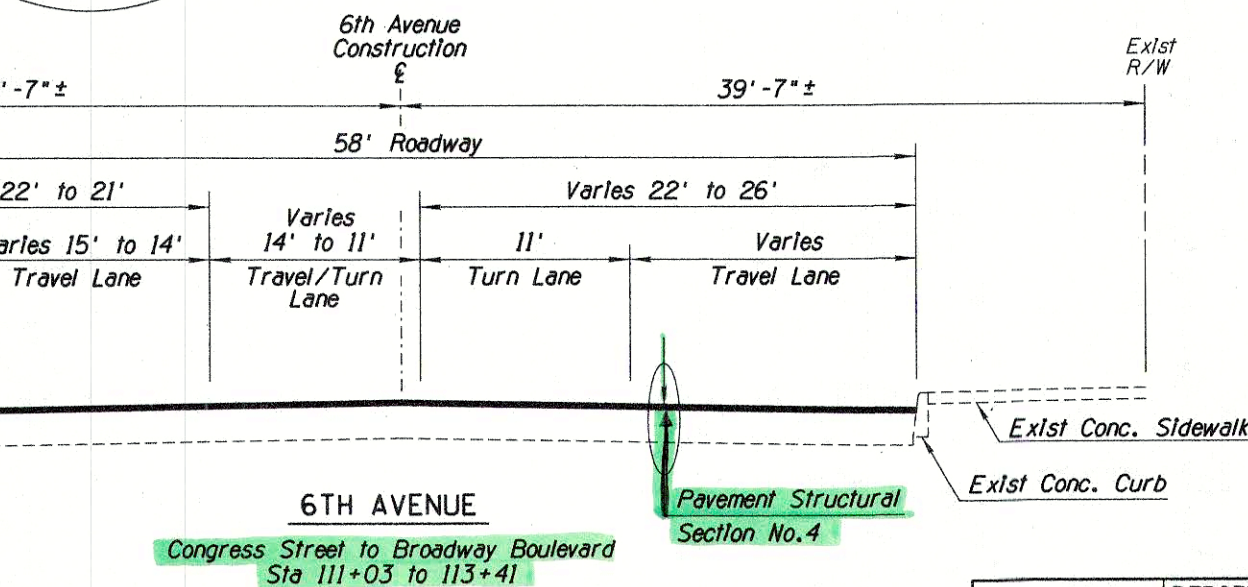
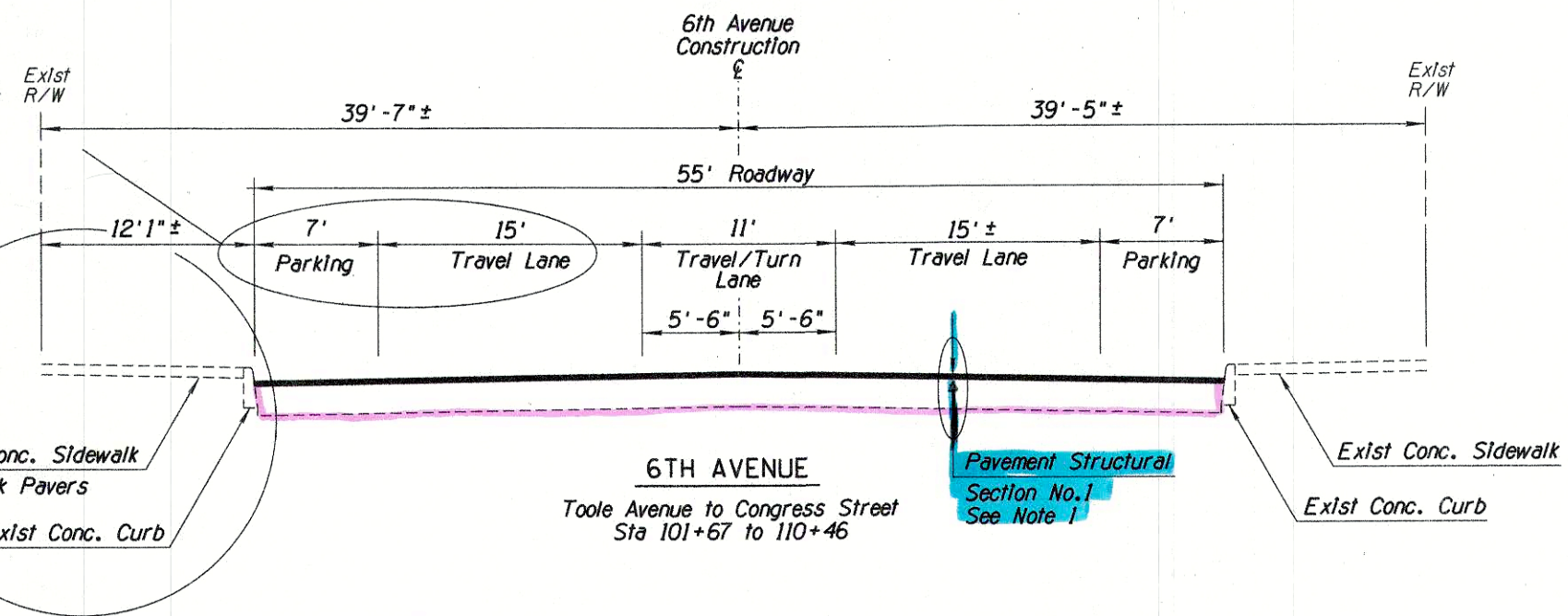
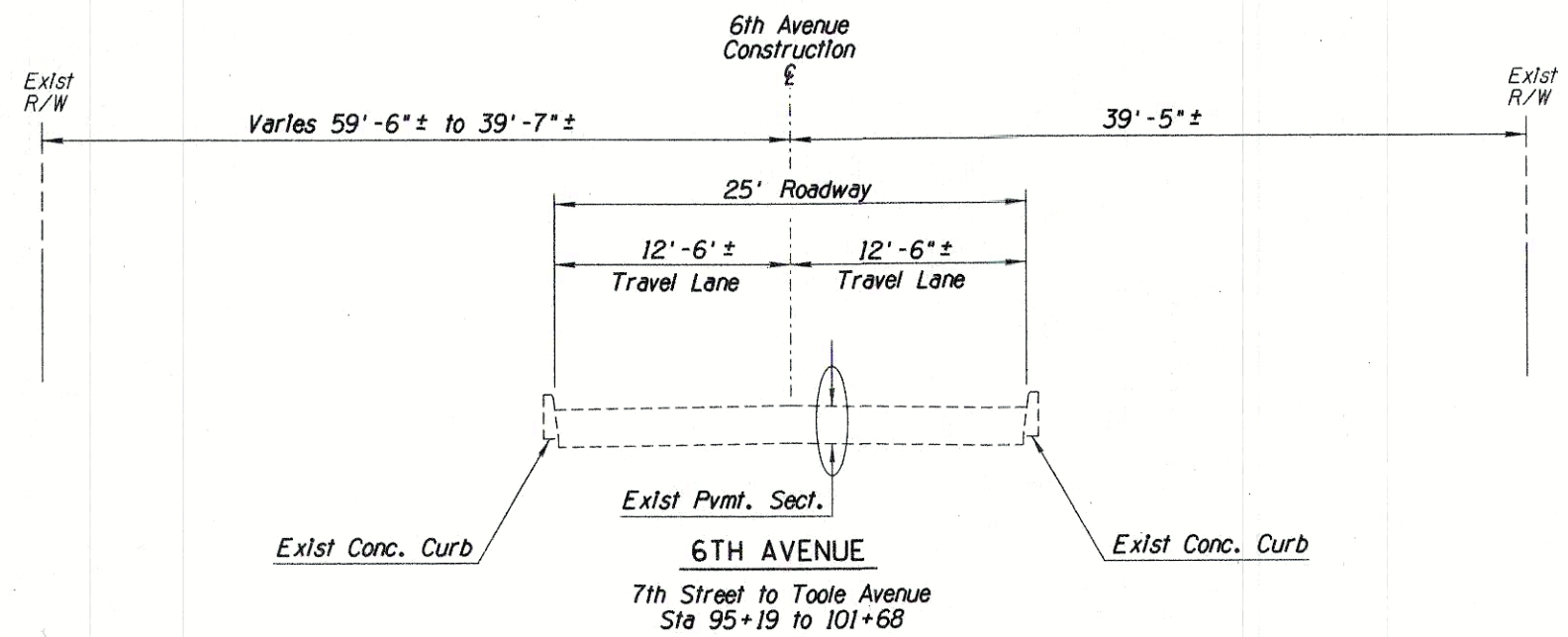
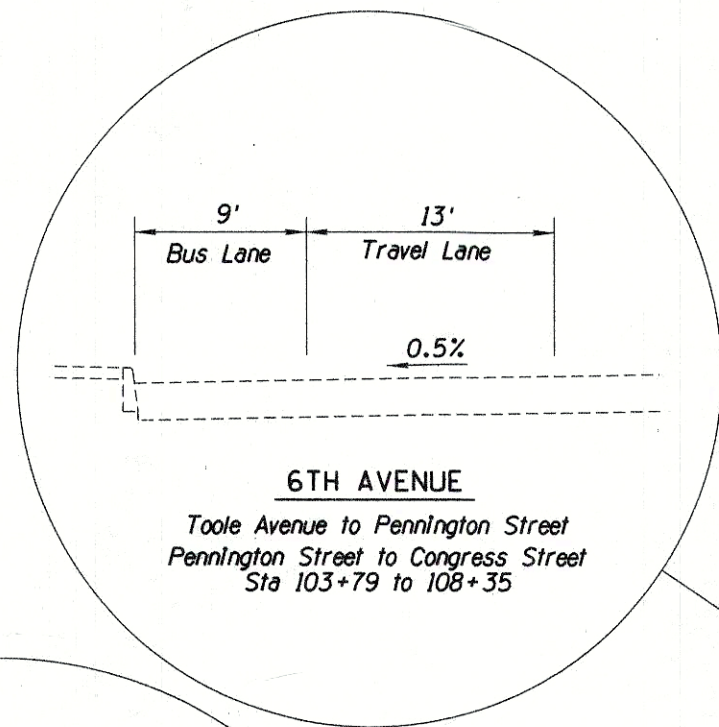
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| DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION | | 3 OF 37 |
| DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | |
| DRWN BY: CPG | 2013 | REF. COT Field Book No. SCALE: |
| DSGN BY: J Vaskovic | 2013 | |
| CHD BY: J Koesters | 2013 | PLAN NO. 1-2012-009 |



PARSONS BRINCKERHOFF

177 N Church Suite 610
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(520-882-6424)





Notes
1. Pavement Structural Section No. 5 is used to replace the existing bomanite crosswalks at Pennington Street near Sta 106+00 ±.

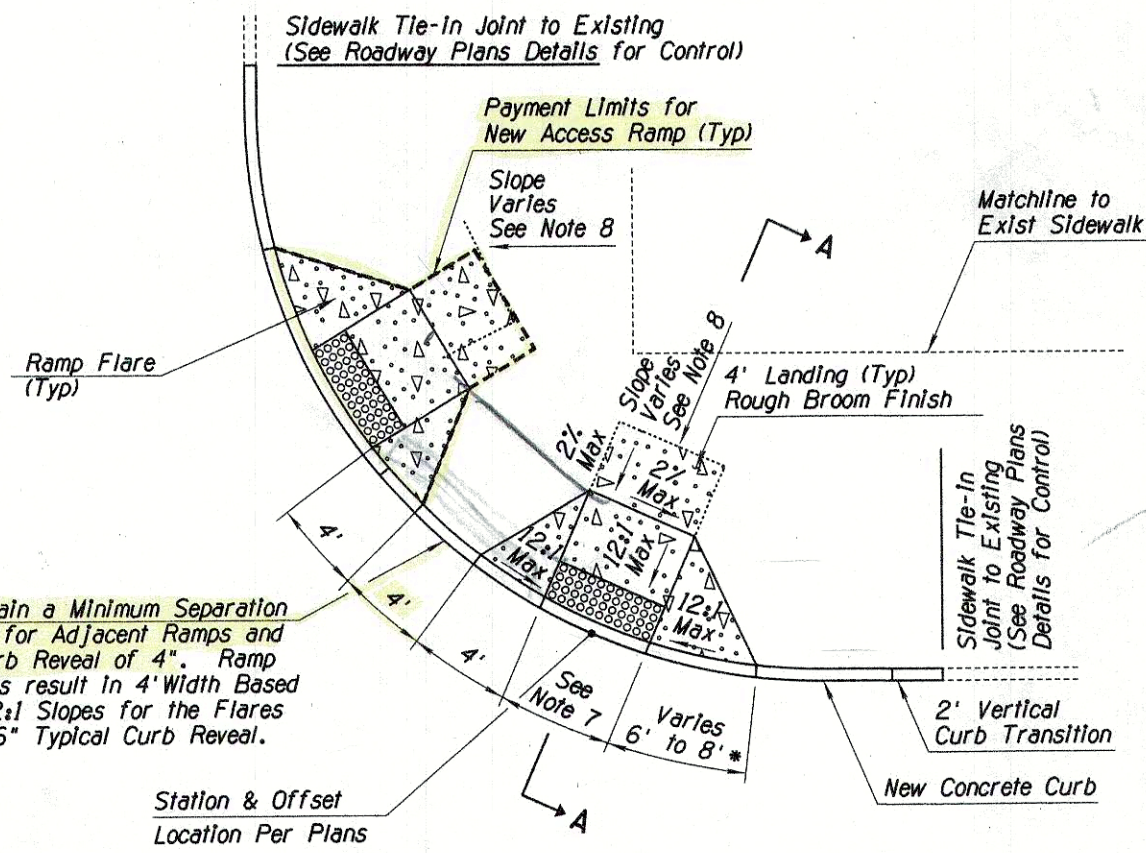
TYPICAL SECTIONS 1 OF 1

| | | |
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| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 4 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| DRWN BY CPG | 2013 | REF. CDT Field Book No. SCALE: N/A |
| DSGN BY J Vaskovic | 2013 | |
| CHKD BY J Koesters | 2013 | PLAN NO. 1-2012-009 |

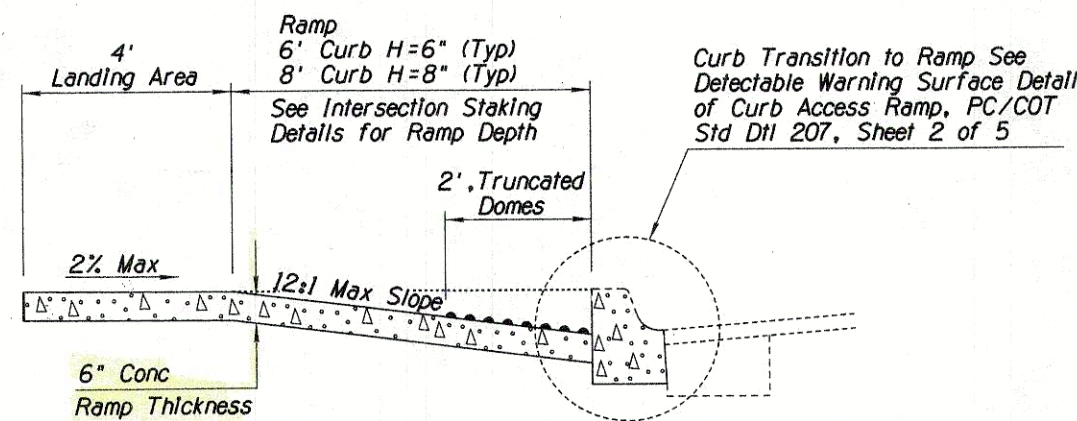
1-800-782-5348
Blue State Center
CALL COLLECT

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

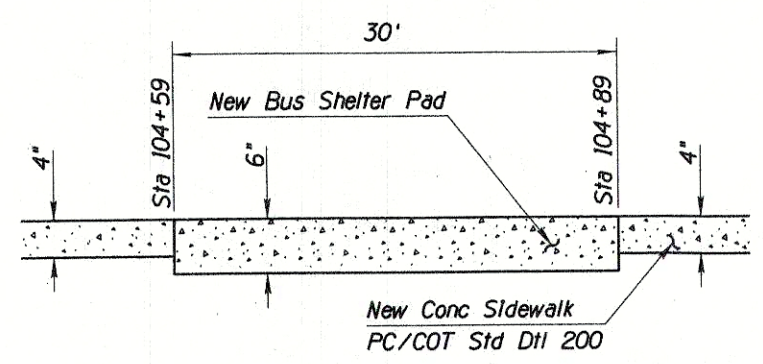




CONCRETE CURB ACCESS RAMP
DETAIL R-A NTS



SECTION A-A



DETAIL 1 Bus Shelter Pad

Curb Access Ramp Locations

| Sheet Location | Station & Offset | Construction Centerline | Ramp Type |
|----------------|----------------------|-------------------------|-----------|
| 1 14 | 101+61.08, 19.19' Rt | 6th Ave | R-3 |
| 2 14 | 102+00.00, 20.74' Lt | 6th Ave | R-1 |
| 3 14 | 45+40.45, 29.08' Rt | Alameda St | R-1 |
| 4 14 | 102+47.51, 38.98' Lt | 6th Ave | R-1 |
| 5 14 | 103+10.17, 28.21' Rt | 6th Ave | R-B |
| 6 14 | 103+12.97, 30.91' Lt | 6th Ave | R-A* |
| 7 15 | 105+35.34, 32.02' Lt | 6th Ave | R-1** |
| 8 15 | 105+49.38, 28.14' Rt | 6th Ave | R-A |
| 9 15 | 105+64.66, 35.94' Rt | 6th Ave | R-A |
| 10 15 | 105+96.43, 38.41' Rt | 6th Ave | R-A |
| 11 15 | 105+99.46, 33.19' Lt | 6th Ave | R-A |
| 12 15 | 106+09.69, 28.29' Rt | 6th Ave | R-A |
| TOTAL R-1 | | | 34 |
| TOTAL R-3 | | | 1 |
| TOTAL R-A | | | 76 |
| TOTAL R-B | | | 1 |
| TOTAL Ramps | | | 12 |

* See Detail Sheet 2 of 2
** See Detail Lower Right This Sheet

Curb Access Ramp Descriptions

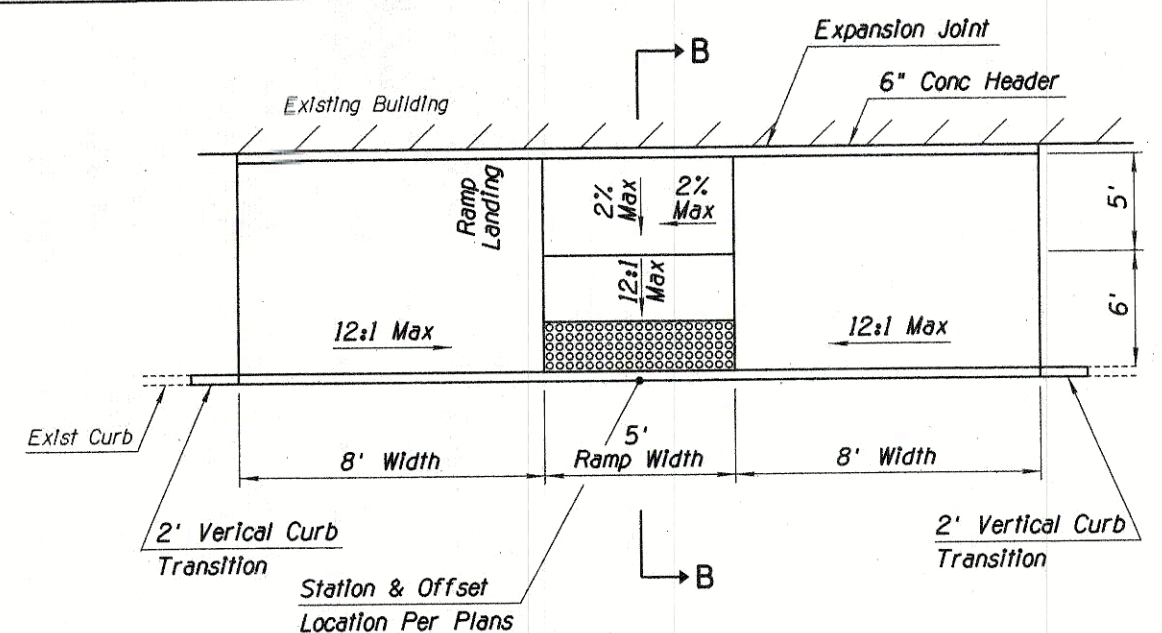
- Type 1 Ramps PC/COT Std DII 207, Sheet 1 or 3 of 5. Include Vertical Curb behind ramp.
- Type 3 Ramps PC/COT Std DII 207, Sheet 4 of 5.
- Type A Ramps, See Detail
- Type B Ramps, See Detail

GENERAL NOTES

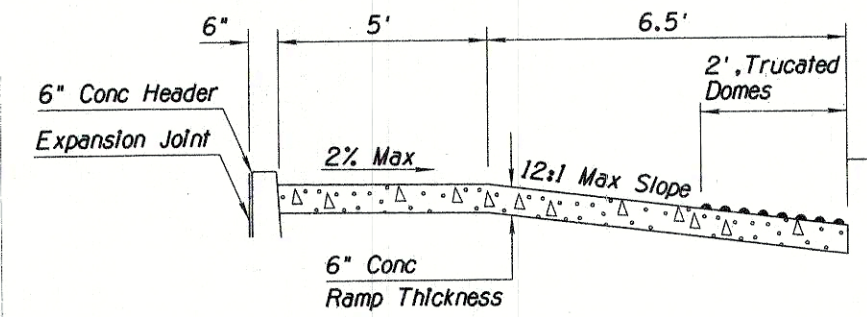
1. All Concrete to be Class "B".
2. All Ramps and Detectable Warning Surface shall be Aligned Perpendicular to the Curb at the Ramp Control Point. Crosswalk shall be Aligned Perpendicular to the Street Centerline as much as Possible.
3. See Plans for Location of Access Ramp Control Point.
4. Detectable Warning Surface shall Consist of Raised Truncated Domes, and shall Conform to the Details in the Plans and In Accordance with Manufacturer's Specifications and Installation Instructions.
5. All Detectable Warning Surfaces shall start at Back of Curb, Measure 24 Inches In Depth and Cover the Complete Width of the Ramp Area 48 Inches Min.
6. Unless Specifically Stated within the Detail or as Directed by The Engineer, all Access Ramps shall be Constructed In Accordance to PC/COT Std. DII. 207, Type 1, and Section 908 of the Standard Specifications for Public Improvements, City of Tucson/Pima County, 2003 Edition.
7. The Width of all Ramps shall be 6' Unless Otherwise Directed Within the Plan Set.
8. The Slope of Sidewalk behind the 4' Concrete Landing shall Vary. Only In Specific Locations Detailed within the Plan Set may this Slope Exceed 2%.

Curb Access Ramp Notes

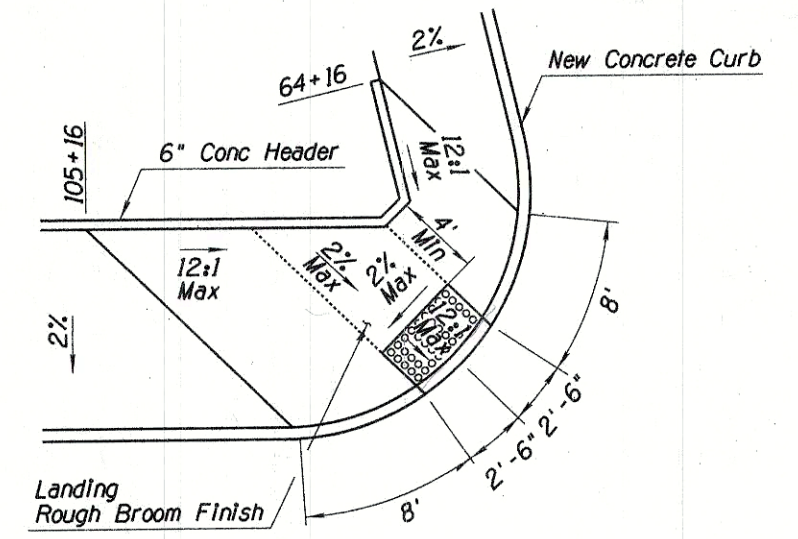
1. All Curb Access Ramps shall conform to PC/COT Std DII 207 unless otherwise specified in the plans.
2. All new Curb Access Ramps shall Include Truncated Domes.



CONCRETE CURB ACCESS RAMP
DETAIL R-B NTS



SECTION B-B



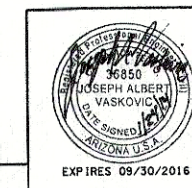
CONCRETE CURB ACCESS RAMP
R-1, Sta 105+35.24, 32.02' Lt NTS

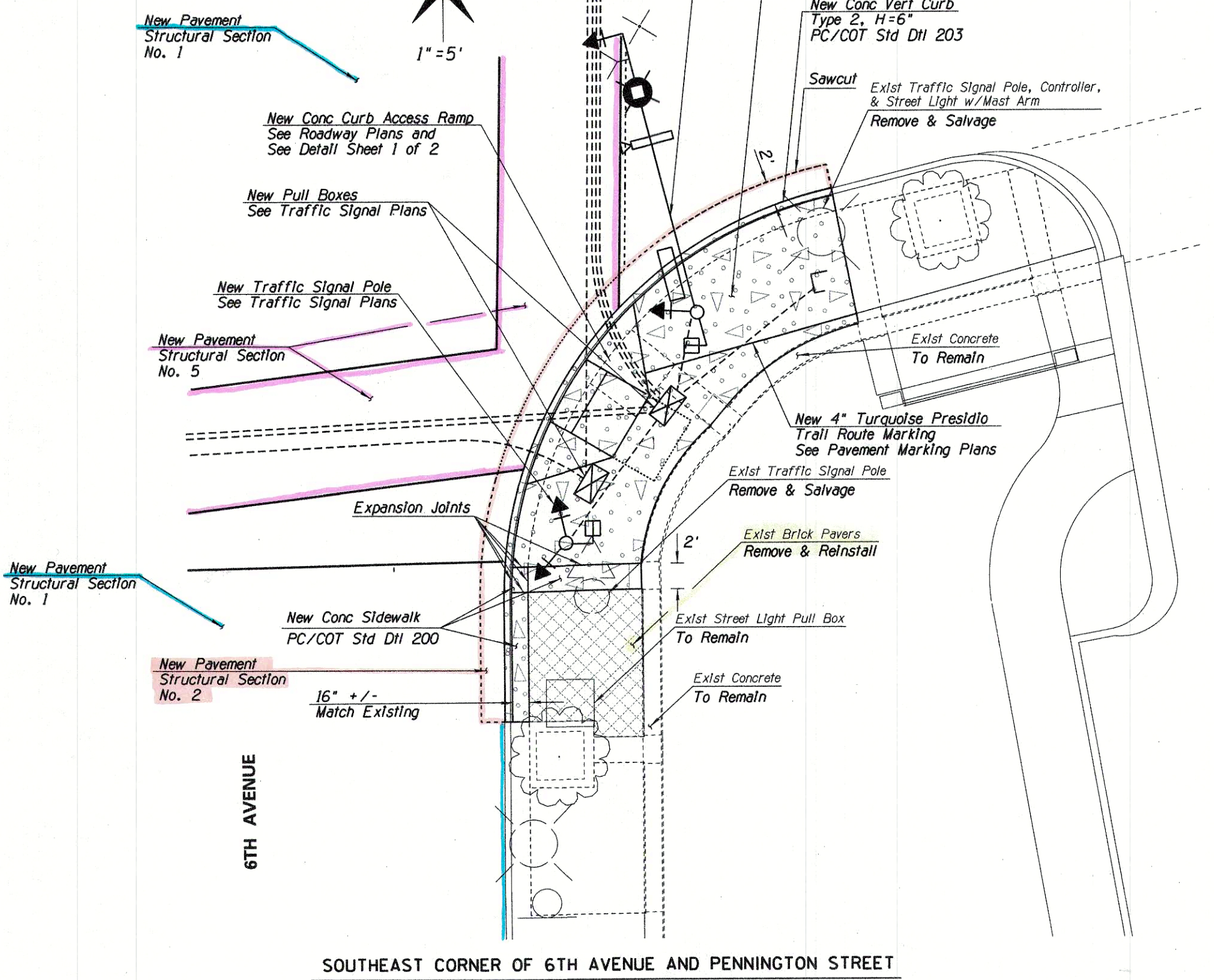
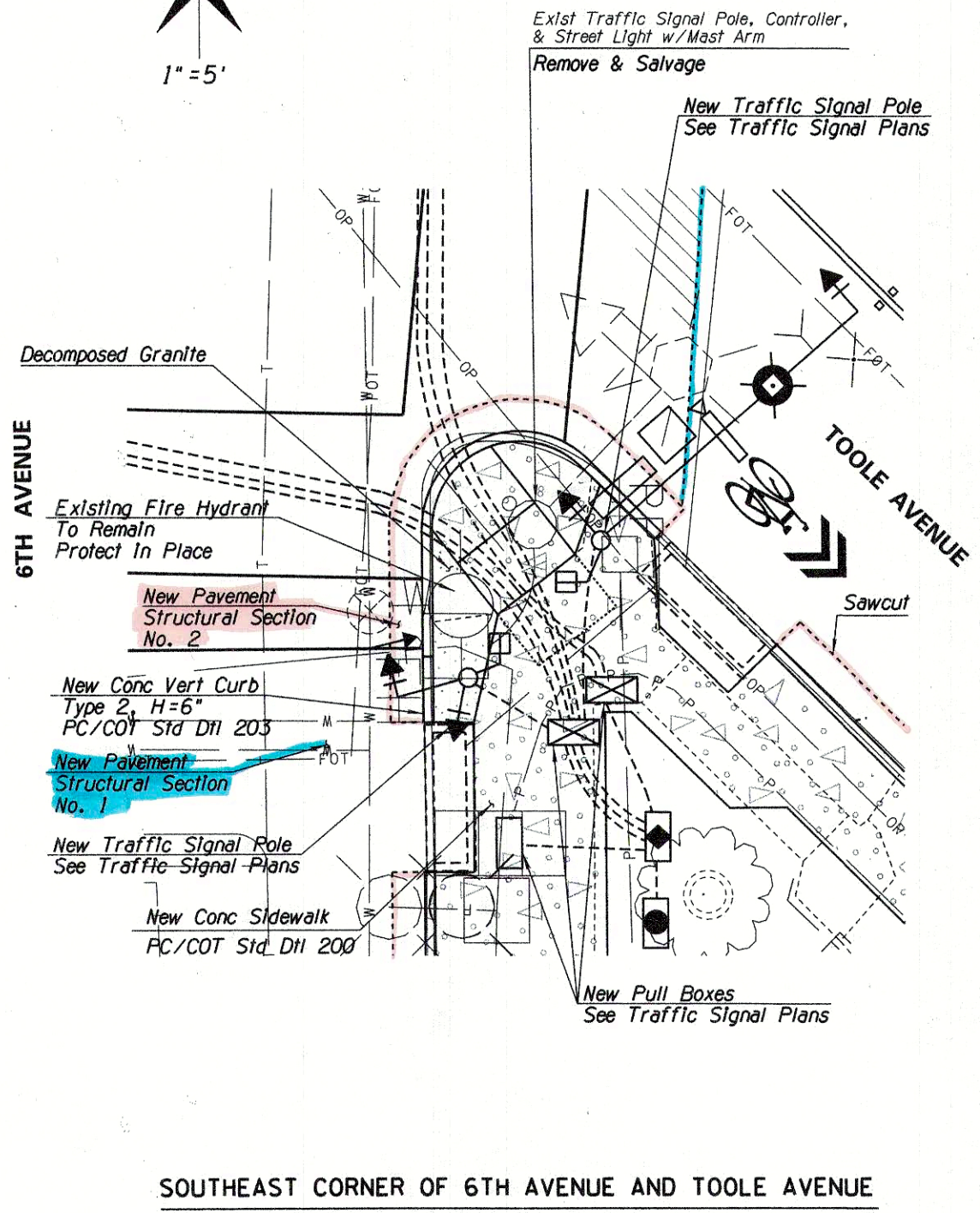
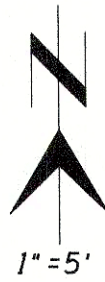
DETAIL SHEET

| | | |
|---|-----------------------|------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 5 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| CITY OF TUCSON | DESIGN BY J. Vaskovic | 2013 |
| EXP. 09/30/2016 | CHKD BY J. Koesters | 2013 |
| PLAN NO. | I-2012-009 | |



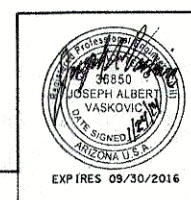
PARSONS BRINCKERHOFF
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Tucson, Arizona 85701
(520) 882-6424





DETAIL SHEET

| | | | | |
|---|------|-------------------------|------------|----|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | | | 6 |
| DOWNTOWN INTERMODAL CENTER | | | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | | | 37 |
| DRWN BY CPG | 2013 | REF. COT Field Book No. | SCALE: | |
| DSGN BY J Vaskovic | 2013 | | | |
| CHD BY J Koesters | 2013 | PLAN NO. | 1-2012-009 | |



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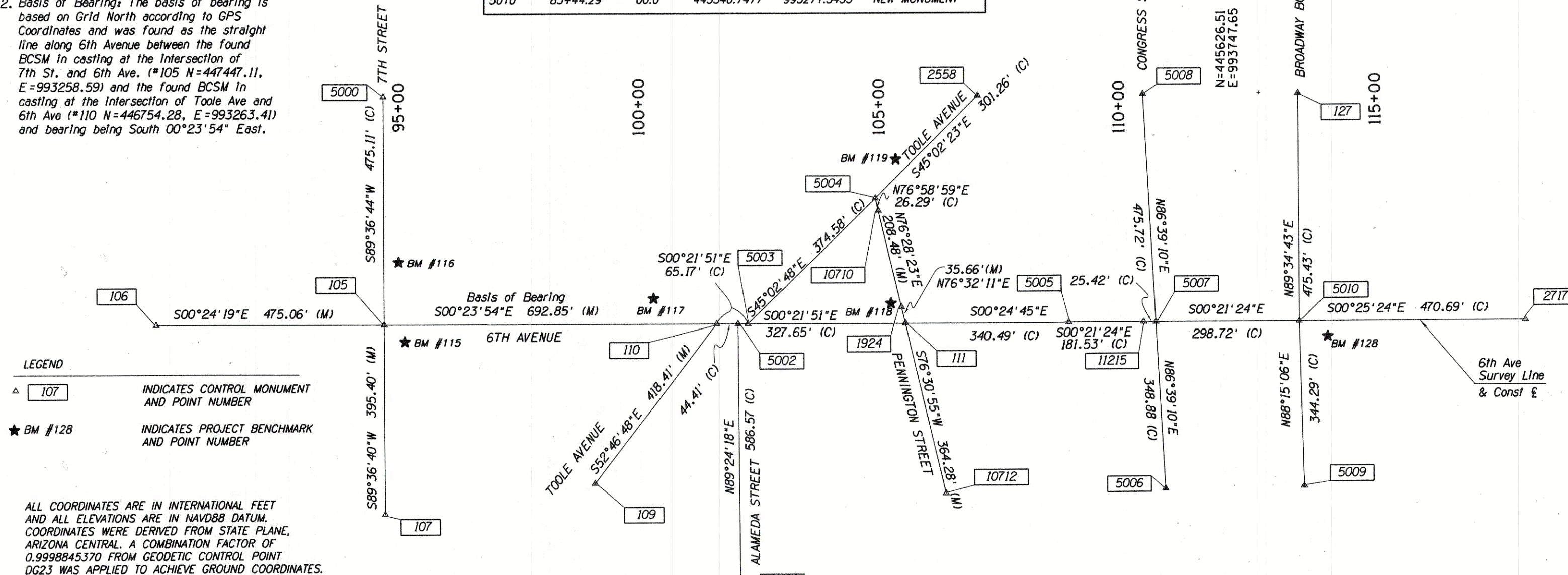
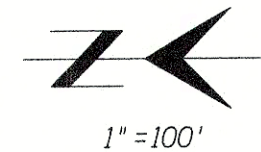


| NO. | DATE | REVISION | BY | CHD. | APPR. |
|-----|------|----------|----|------|-------|
| | | | | | |

NOTES:

- 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.
- 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.

| 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

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+08.42 | 00.0 | 446418.5372 | 993503.2900 | 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 |

SURVEY CONTROL SHEET 1 OF 1

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

CITY OF TUCSON

REF. COT Field Book No. SCALE: H: 1"=100'
 N/A

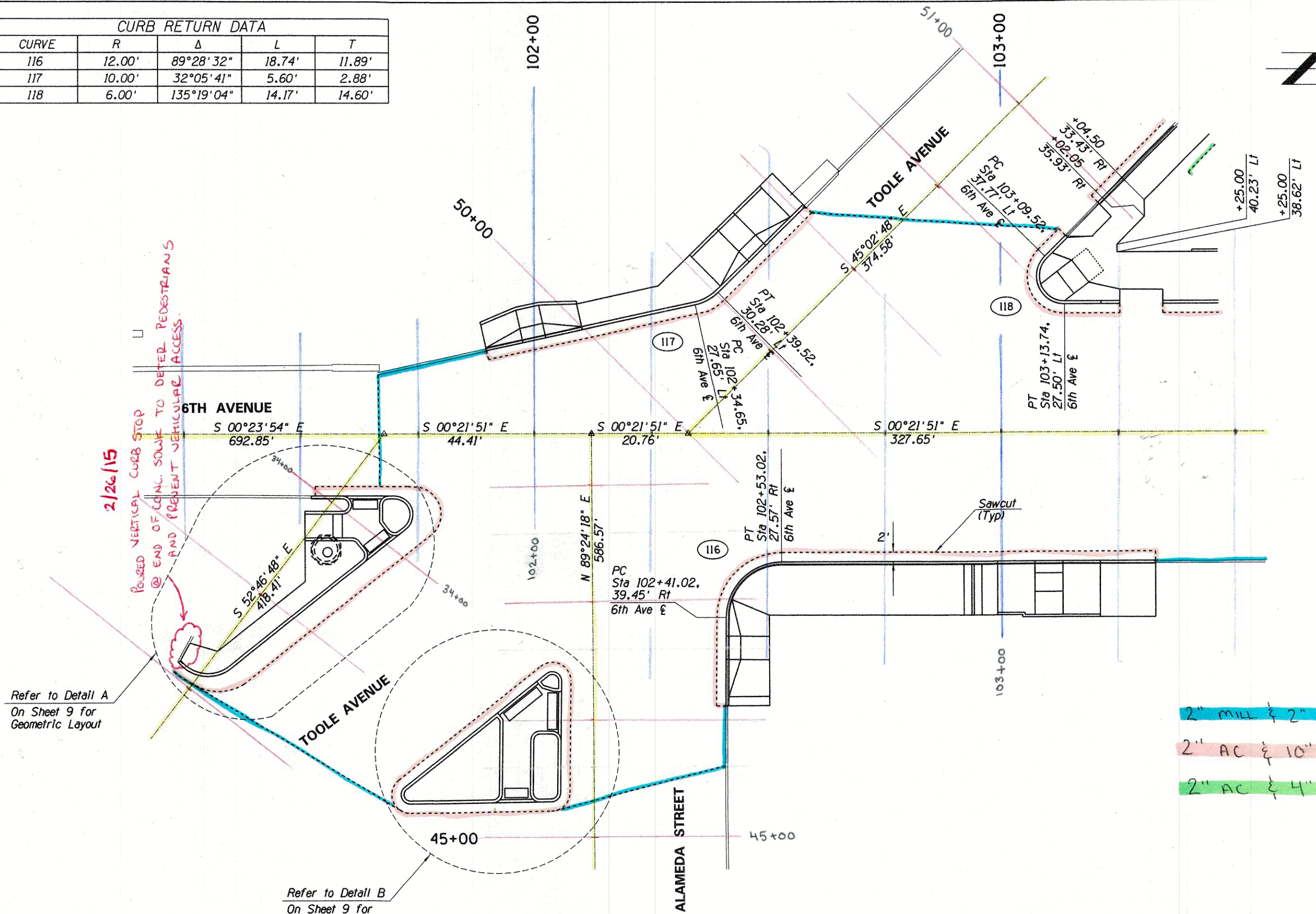
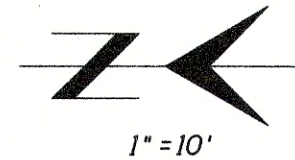
EXP. NO. DATE REVISION BY CHKD. APPR.

EXP. 09/30/2016

PLAN NO. I-2012-009



| CURB RETURN DATA | | | | |
|------------------|--------|------------|--------|--------|
| CURVE | R | Δ | L | T |
| 116 | 12.00' | 89°28'32" | 18.74' | 11.89' |
| 117 | 10.00' | 32°05'41" | 5.60' | 2.88' |
| 118 | 6.00' | 135°19'04" | 14.17' | 14.60' |



2/26/15
POURED VERTICAL CURB STOP
@ END OF CONC. SLOPE TO DETER PEDESTRIANS
AND PREVENT VEHICULAR ACCESS.

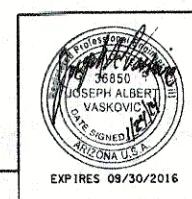
Refer to Detail A
On Sheet 9 for
Geometric Layout

Refer to Detail B
On Sheet 9 for
Geometric Layout

2" MILL & 2" AC
2" AC & 10" CLSM
2" AC & 4" ABC

GEOMETRIC LAYOUT 1 OF 3

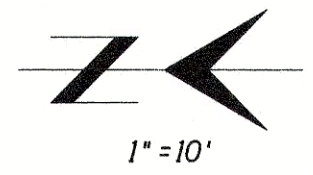
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|---|------|---------------------------------------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 8 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| DRWN BY CPG | 2013 | REF. COT Field Book No. SCALE: 1"=10' |
| DSGN BY J Vaskovic | 2013 | |
| CHKD BY J Koesters | 2013 | PLAN NO. 1-2012-009 |



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Blue Stake Center
CALL COLLECT

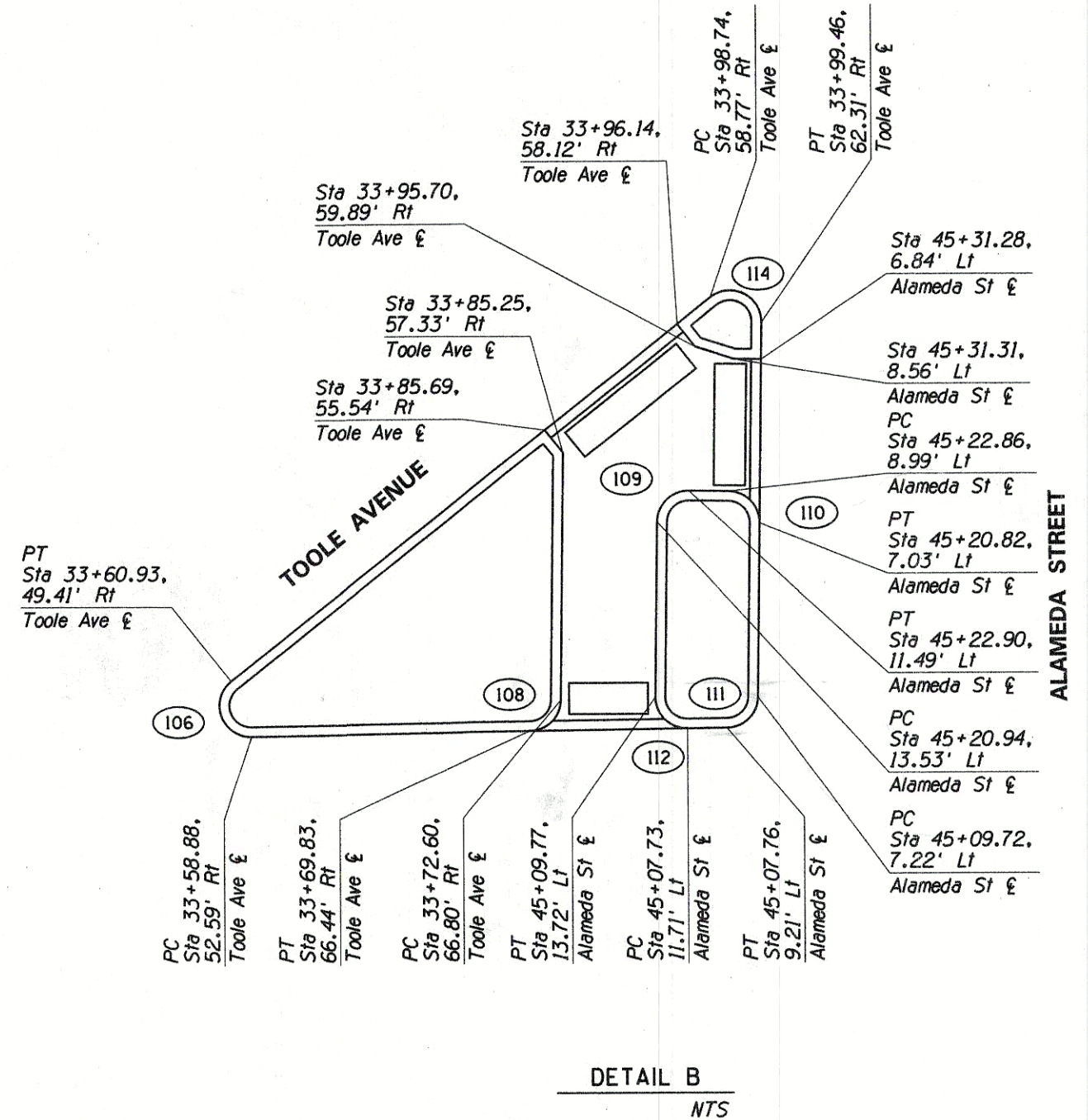
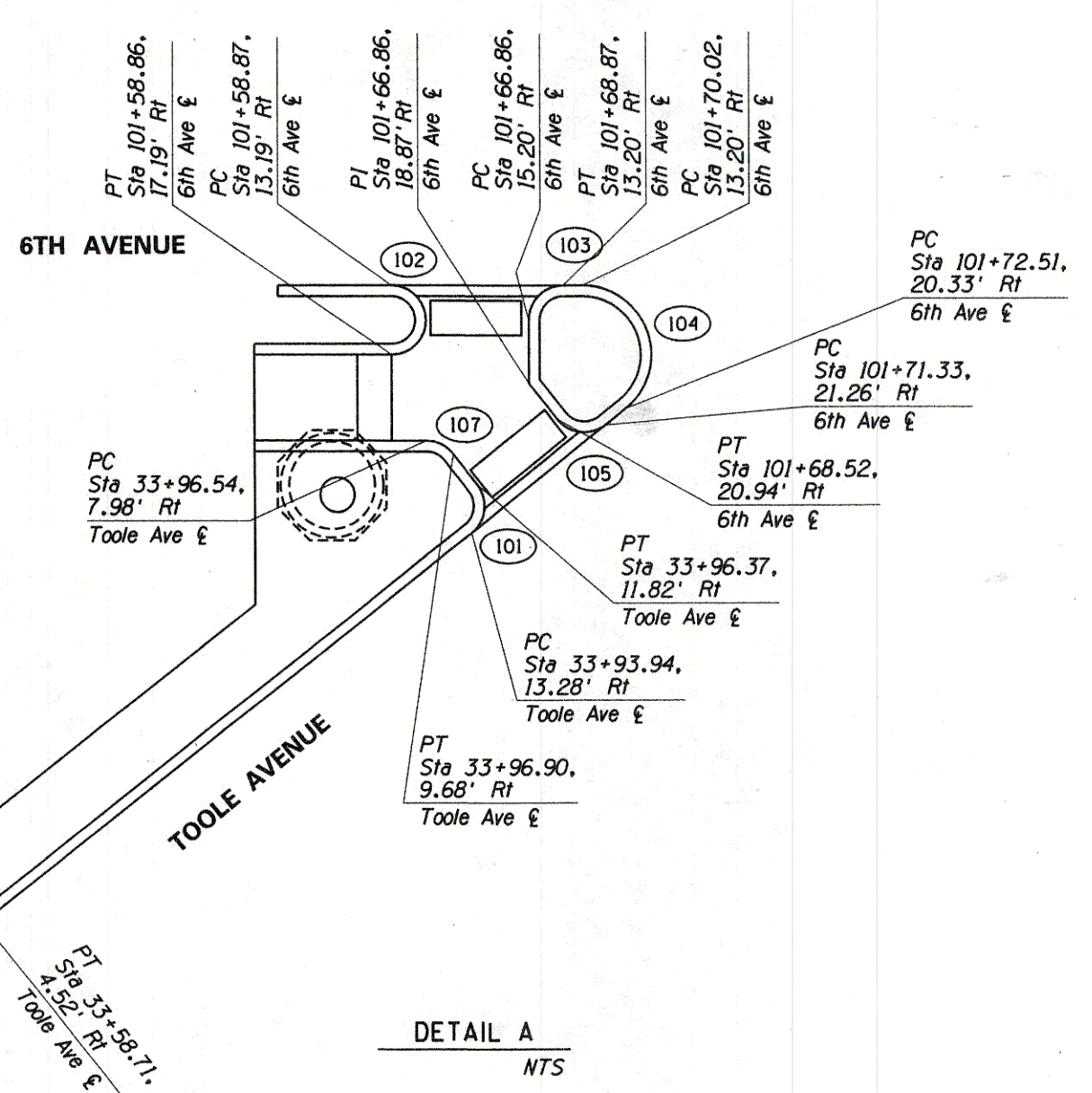
PARSONS BRINCKERHOFF
177 N Church Suite 610
Tucson, Arizona 85701
(520-882-6424)

| NO. | DATE | REVISION | BY | CHKD. | APPR. |
|-----|------|----------|----|-------|-------|
|-----|------|----------|----|-------|-------|



POURED VERTICAL CURB STOP @ END OF SLOW TO
 DETER PEDESTRIANS & PREVENT VEHICULAR ACCESS.

2/26/15



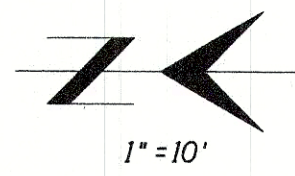
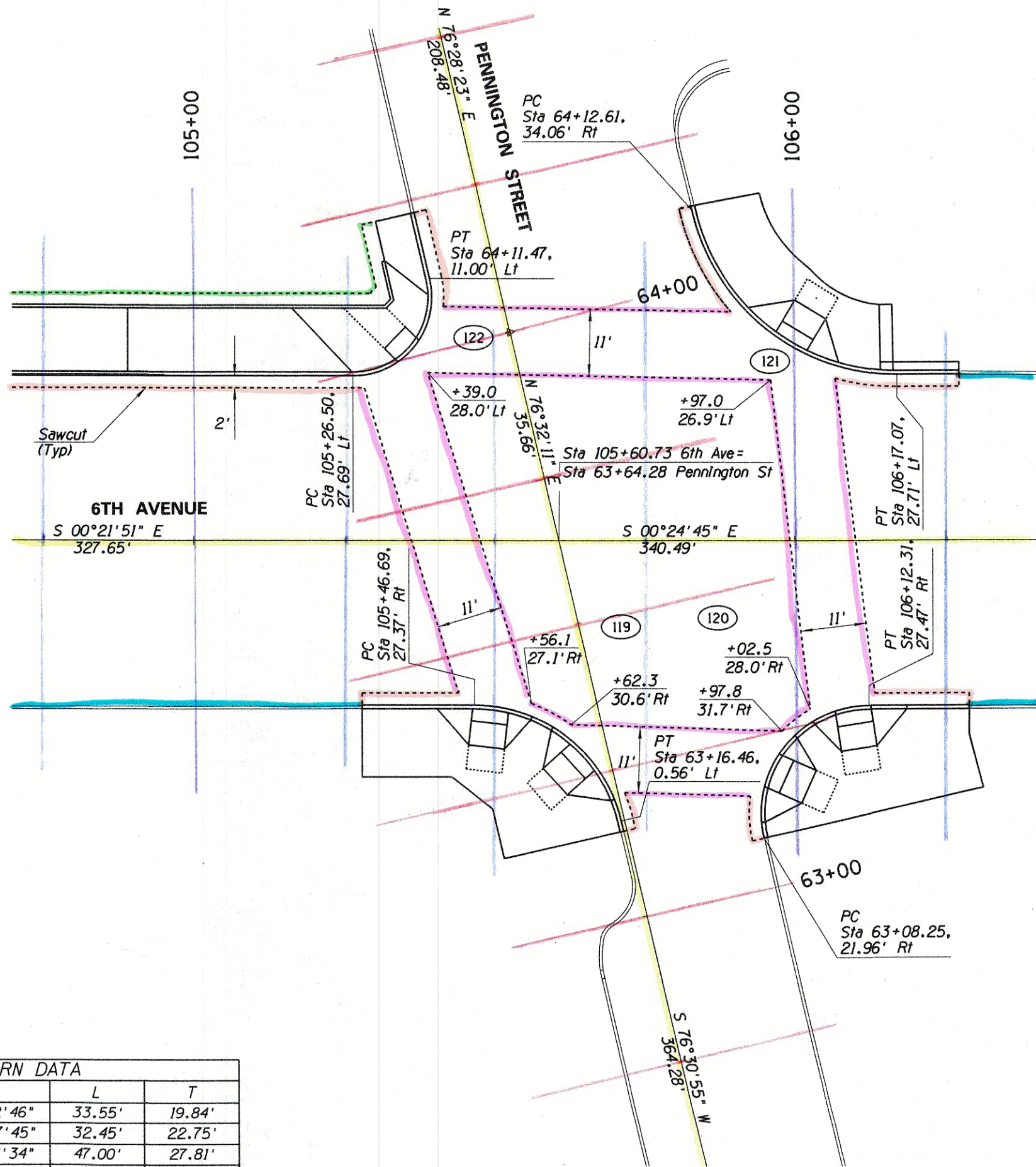
| CURB RETURN DATA | | | | |
|------------------|-------|------------|--------|--------|
| CURVE | R | Δ | L | T |
| 100 | 8.00' | 84°14'40" | 11.76' | 7.23' |
| 101 | 2.00' | 90°00'00" | 3.14' | 2.00' |
| 102 | 2.00' | 90°00'00" | 6.28' | 1.00' |
| 103 | 2.00' | 90°00'00" | 3.14' | 2.00' |
| 104 | 4.00' | 141°29'13" | 9.88' | 11.45' |
| 105 | 2.00' | 128°30'47" | 4.49' | 4.15' |
| 106 | 2.00' | 142°14'37" | 4.97' | 5.85' |
| 107 | 2.00' | 51°29'13" | 1.80' | 0.96' |
| 108 | 2.00' | 88°27'20" | 3.09' | 1.95' |
| 109 | 2.00' | 90°00'00" | 3.14' | 2.00' |
| 110 | 2.00' | 90°00'00" | 3.14' | 2.00' |
| 111 | 2.00' | 88°27'53" | 3.09' | 1.95' |
| 112 | 2.00' | 91°32'07" | 3.20' | 2.05' |
| 114 | 2.00' | 129°17'30" | 4.51' | 4.22' |



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| | | |
|---|--|----------------------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 9 |
| | | OF 37 |
| | DRWN BY: CPG DSN BY: J Vaskovic CHD BY: J Koesters | 2013 2013 2013 |
| REF. DOT Field Book No. SCALE: 1"=10' PLAN NO. I-2012-009 | | |



CONTINUE TO CONGRESS

- 2" MILL & 2" AC
- 2" AC & 10" CLSM
- 10" AC (2"+2"+3"+3")
- 2" AC & 4" ABC

| CURB RETURN DATA | | | | |
|------------------|--------|------------|--------|--------|
| CURVE | R | Δ | L | T |
| 119 | 25.00' | 76°52'46" | 33.55' | 19.84' |
| 120 | 18.00' | 103°17'45" | 32.45' | 22.75' |
| 121 | 35.00' | 76°56'34" | 47.00' | 27.81' |
| 122 | 13.00' | 102°45'32" | 23.32' | 16.27' |

GEOMETRIC LAYOUT 3 OF 3

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

CITY OF TUCSON

DRWN BY: CPG
 DESGN BY: J. Vaskovic
 CHKD BY: J. Koesters

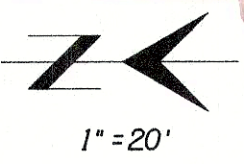
2013
 2013
 2013

REF. COT Field Book No. SCALE: 1"=10'
 PLAN NO. 1-2012-009

10 OF 37

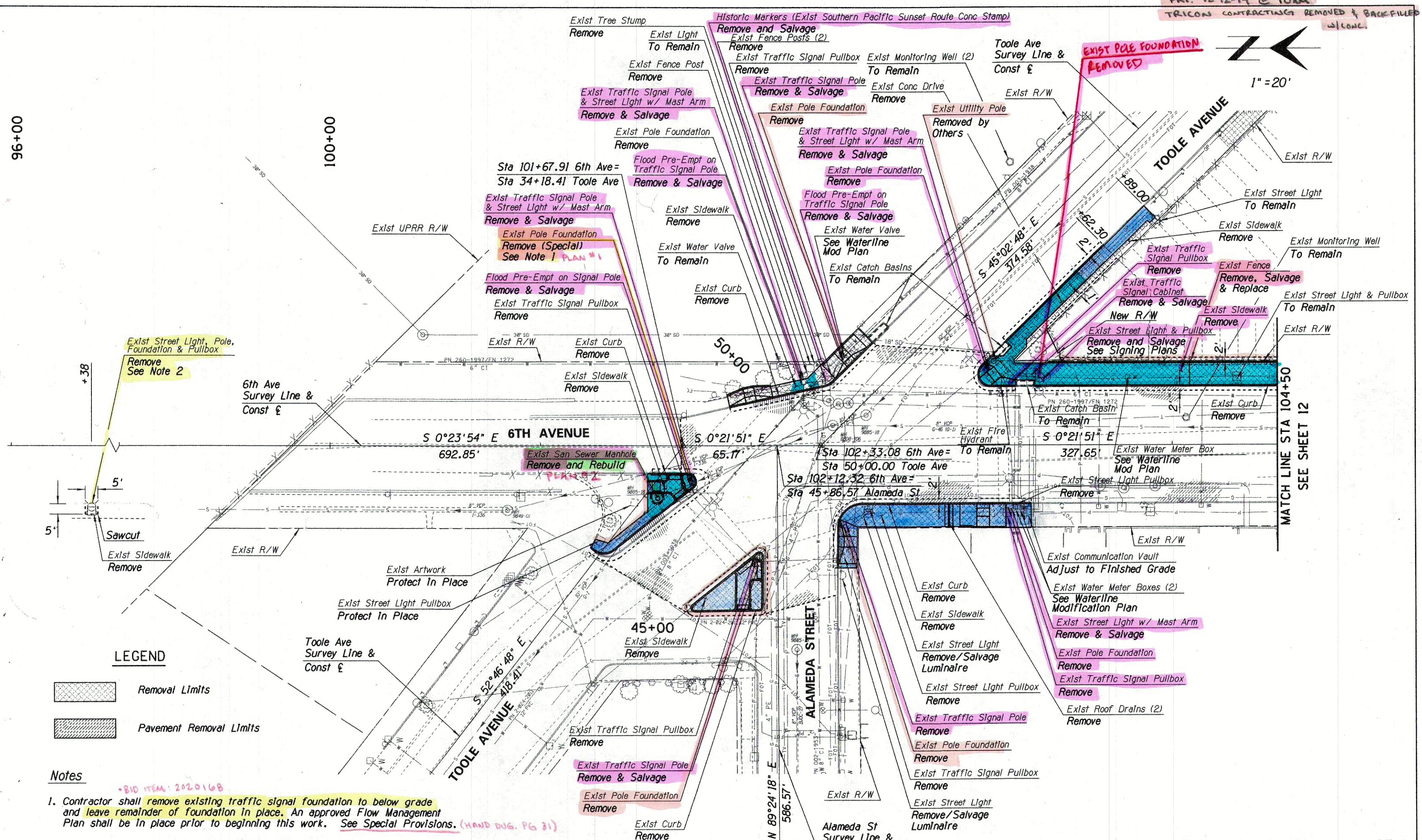
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 Blue Stake Center
 CALL COLLECT

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 (520) 882-6424



96+00

100+00



LEGEND

- Removal Limits
- Pavement Removal Limits

Notes

- 810 ITEM: 2020168
1. Contractor shall remove existing traffic signal foundation to below grade and leave remainder of foundation in place. An approved Flow Management Plan shall be in place prior to beginning this work. See Special Provisions. (HAND DUG, PG 31)
 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 Traffic Signal Plans.
 3. Sign removals are shown on the Signing Plan.

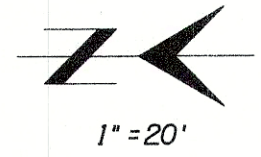
DEMOLITION PLAN 1 OF 3

| | | |
|---|--|----------------------|
| DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION | | 11 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| | DRWN BY: CPG DESGN BY: J Vaskovic CHD BY: J Koesters | 2013 2013 2013 |
| REF. COT Field Book No. SCALE: H: 1"=20' PLAN NO. I-2012-009 | | |

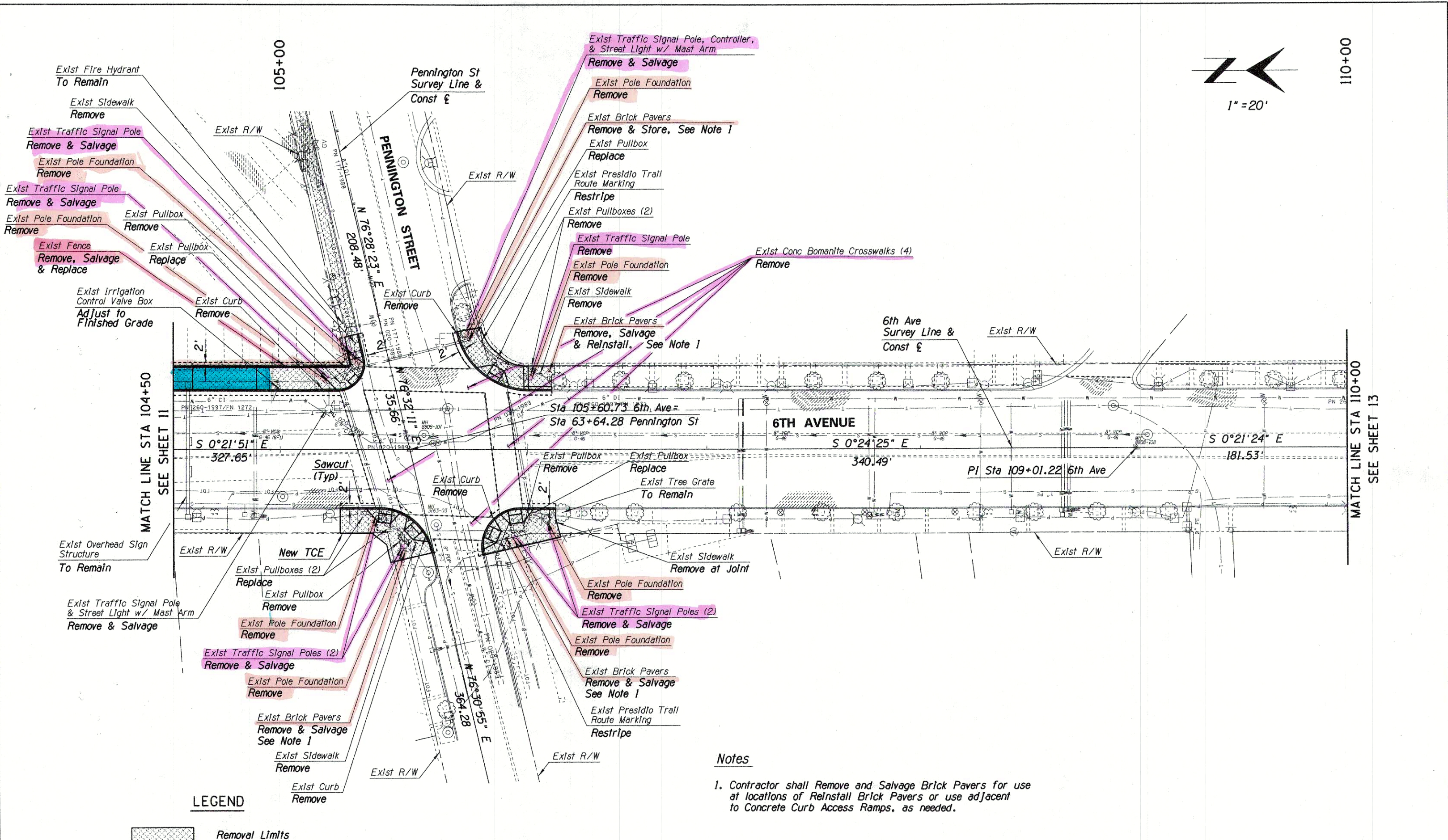
Two working days before you dig
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 Blue Stakes Center
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EXPIRES 09/30/2016



110+00



LEGEND

Removal Limits

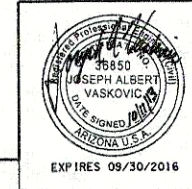
Pavement Removal Limits

Notes

- Contractor shall Remove and Salvage Brick Pavers for use at locations of Reinstall Brick Pavers or use adjacent to Concrete Curb Access Ramps, as needed.

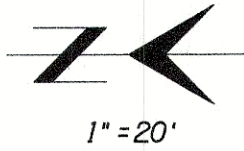
DEMOLITION PLAN 2 OF 3

| | | |
|---|---------------------|------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 12 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| | DRWN BY: CPG | 2013 |
| | DSGN BY: J Vaskovic | 2013 |
| | CHKD BY: J Koesters | 2013 |
| REF: COT Field Book No. | SCALE: 1" = 20' | |
| PLAN NO. | 1-2012-009 | |



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|-----|------|----------|----|-------|-------|
| | | | | | |



110+00

CONGRESS STREET

BROADWAY BOULEVARD

Sta 110+46
Limits of Pavement
Removal

Sta 111+03
Limits of Micro-Surface

Sta 113+41
Limits of Micro-Surface

6th Ave
Survey Line &
Const ξ

Exlst R/W



MATCH LINE STA 110+00
SEE SHEET 12

S 0°21'24" E
181.53'

6TH AVENUE
S 0°21'24" E
298.72'

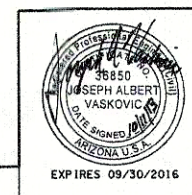
Exlst R/W

LEGEND

-  Removal Limits
-  Pavement Removal Limits

DEMOLITION PLAN 3 OF 3

| | | |
|---|------|--|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 13 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| 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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| NO. | DATE | REVISION | BY | CHKD. | APPR. |
|-----|------|----------|----|-------|-------|
| | | | | | |

Sanitary Sewer Notes

- Contractor Shall Remove Existing Brick Manhole & Inspect Manhole Base.
- Upon Approval of the Engineer & PCRWRD, Contractor Shall Reconstruct Manhole Riser In Accordance with Standard Detail WWM 209. Manhole Access Lid Shall be Rotated to Minimize Conflict with Proposed Curb Elements.
- Contractor Shall Develop Flow Management Plan (FMP) Prior to Beginning Construction Activities, In Accordance with Current PCRWRD Design Standards. The FMP Shall be Maintained During Removal of Existing Traffic Signal Foundation & Installation of New Traffic Signal Pole Foundation(s). See General Sanitary Sewer & Flow Management Notes.

96+00

Sta 33+91, 6' ± Rt
Exist MH 9885-18
Remove (Sanitary Sewer Manhole) Reconstruct Manhole (Sewer) from Base, See Sanitary Sewer Notes This Sheet and on General Notes Sheet, and PC/COT Std Dtl WWM 209. Set Manhole Access Lid 1' below Finished Grade. Form Ramp Curb over Manhole Access Lid.

6th Ave Survey Line & Const E

Sta 96+35.50 to Sta 96+40.50
New Conc Sidewalk
PC/COT Std Dtl 200
PC/COT Std Dtl 203

LEGEND

- New Concrete
- Pavement Removal Limits
- Curb Access Ramp, See Detail Sheet
- Reset MH Frame and Cover to Finished Grade (8 this sheet)

Notes

- Pavement at sawcut line shall be removed for construction of curb and replaced with Pavement Structural Section No. 2.

Fiber Optic Cable Notes

- CenturyLink has several fiber optic cable and copper lines in the vicinity of the intersection. New concrete sidewalk construction has been identified as being in potential conflict with these facilities and they located near:

Sta. 45+28, 28' Rt, Alameda Street
Sta. 103+33, 30' Rt, 6th Avenue

Contractor shall locate, support, and protect CenturyLink facilities during the construction of the concrete sidewalk.

Sta 101+89.90, 17.89' Lt
Begin New Conc Vert Curb
Begin New Conc Sidewalk
Saw Cut & Match Exlst
PC/COT Std Dtl 203
PC/COT Std Dtl 211

Sta 101+67.91 6th Ave=
Sta 34+18.41 Toole Ave
Sta 101+67

Begin Mill & Overlay (2")
New Conc Sidewalk
PC/COT Std Dtl 200

New Conc Curb Access Ramp
R-3, Type 3, See Detail Sheet
PC/COT Std Dtl 207

Sta 101+53.10, 13.19' Rt
Begin New Conc Vert Curb
Begin New Conc Sidewalk
Saw Cut & Match Exlst
PC/COT Std Dtl 203
PC/COT Std Dtl 211

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Sidewalk
PC/COT Std Dtl 200

New Conc Curb Access Ramp
See Detail R-A
Sheet 5

Sta 50+52.00, 16.87' Lt
End New Conc Vert Curb
End New Conc Sidewalk
Saw Cut & Match Exlst
PC/COT Std Dtl 203
PC/COT Std Dtl 211

Sta 50+87.17, 26.92' Rt
Begin New Conc Vert Curb
Saw Cut & Match Exlst
PC/COT Std Dtl 211

Sta 51+62.30, 26.80' Rt
End New Conc Vert Curb
Saw Cut & Match Exlst
PC/COT Std Dtl 211

Sta 50+97.05, 26.80' Rt
Begin New Conc Vert Curb
Saw Cut & Match Exlst
PC/COT Std Dtl 211

New Conc Vert Curb
Type 2, H=6"
PC/COT Std Dtl 209
Match Existing Reveal

Match Sidewalk
To CB Grade

Sta 50+65
Begin Mill & Overlay (2")

New Conc Sidewalk
PC/COT Std Dtl 200

Sta 102+33.08 6th Ave=
Sta 50+00.00 Toole Ave

Sta 102+12.32 6th Ave=
Sta 45+86.57 Alameda St

New Conc Sidewalk
PC/COT Std Dtl 200

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

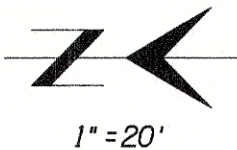
New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207



1" = 20'

Sta 51+89.00, 27.43' Rt
Begin New Conc Sidewalk
Saw Cut & Match Exlst
PC/COT Std Dtl 203

Sta 51+02 to Sta 51+85
Decomposed Granite,
2.5' Wide, 1/2" Screened
2" Min. Depth

Sta 103+12 to Sta 103+24
Decomposed Granite,
2.5' Wide, 1/2" Screened
2" Min. Depth

Sta 103+47 to Sta 104+50
New Conc Vert Curb

Sta 103+46 to Sta 105+29
Reinstall Salvaged Fence

MATCH LINE STA 104+50
SEE SHEET 15

Sta 33+53.26, 5.08' Lt
End New Conc Vert Curb
End New Conc Sidewalk
Saw Cut & Match Exlst
PC/COT Std Dtl 203
PC/COT Std Dtl 211

Sta 33+50
Begin Mill & Overlay (2")

Toole Ave Survey Line & Const E

Sta 33+00

Sta 33+50

Sta 33+50

Sta 33+50

Sta 33+50

Sta 33+50

Sta 33+50

Sta 33+50

Sta 33+50

Sta 33+50

Sta 33+50

New Conc Vert Curb
Type 2, H=6"
PC/COT Std Dtl 209

New Conc Sidewalk
PC/COT Std Dtl 200

Alameda St Survey Line & Const E

Sta 45+08
Begin Mill & Overlay (2")

New Pavement
Structural Section
No. 2 (Typ)

New Pavement
Structural Section
No. 1

New Conc Sidewalk
PC/COT Std Dtl 200

New Conc Curb Access Ramp
R-1, Type 1, See Detail Sheet
PC/COT Std Dtl 207

Sta 45+28.00, 28.29' Rt
Begin New Conc Vert Curb
Begin New Conc Sidewalk
Saw Cut & Match Exlst
PC/COT Std Dtl 203
PC/COT Std Dtl 211

New Conc Curb Access Ramp
See Detail R-B, Sheet 5

New Sidewalk Scupper, Type 1 (2)
Connect to Existing Roof Drains
PC/COT Std Dtl 204

ROADWAY PLAN

1 OF 3

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

14 OF 37

DRWN BY: CPG
DSGN BY: J. Vaskovio
CHKD BY: J. Koesters

2013
2013
2013

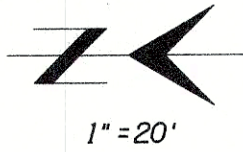
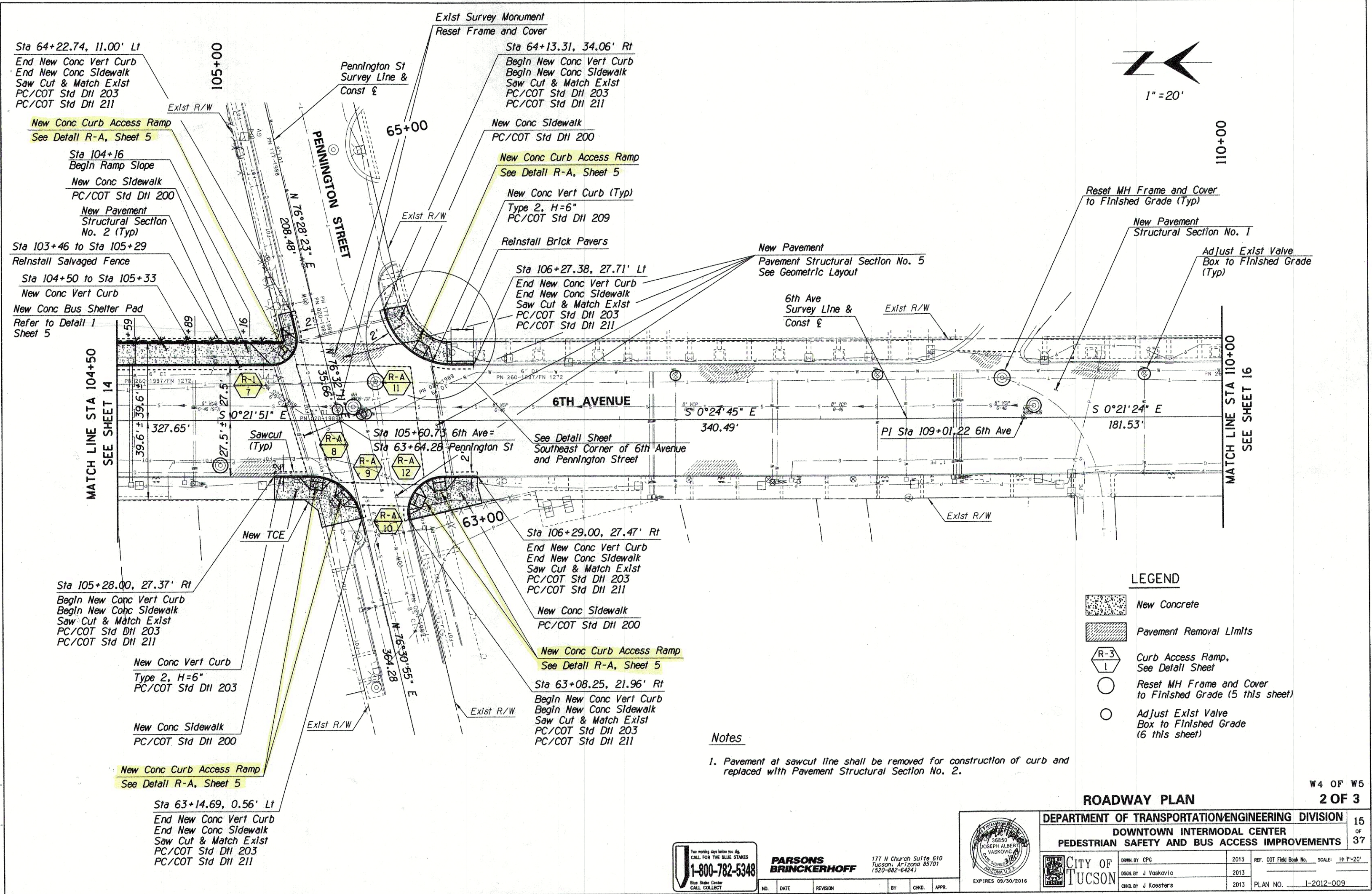
REF. COT Field Book No. SCALE: H: 1"=20'
PLAN NO. I-2012-009

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1-800-782-5348
Blue Stake Center
CALL COLLECT

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BRINCKERHOFF






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

36850
JOSEPH ALBERT
VASKOVIO
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 09/30/2016



1" = 20'

LEGEND

-  New Concrete
-  Pavement Removal Limits
-  Curb Access Ramp, See Detail Sheet
-  Reset MH Frame and Cover to Finished Grade (5 this sheet)
-  Adjust Exist Valve Box to Finished Grade (6 this sheet)

Notes

1. Pavement at sawcut line shall be removed for construction of curb and replaced with Pavement Structural Section No. 2.

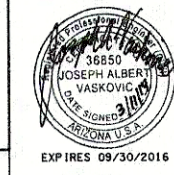
ROADWAY PLAN

W4 OF W5
2 OF 3

| | | |
|---|-------------------------|------------------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 15 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| CITY OF TUCSON | DESIGN BY: J. Vaskovic | 2013 |
| | CHKD BY: J. Koesters | 2013 |
| | REF: COT Field Book No. | SCALE: H: 1"=20' |
| | PLAN NO. | 1-2012-009 |

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Sta 110+46
End Mill & Overlay (2")

New Pavement
Structural Section
No. 1

MATCH LINE STA 110+00
SEE SHEET 15

S 0°21'24" E
181.53'

CONGRESS STREET

Sta 111+03
Begin Micro-Surface

New Pavement
Structural Section
No. 6.4

6TH AVENUE
S 0°21'24" E
298.72'

Sta 113+41
End Micro-Surface

6th Ave
Survey Line &
Const E

Exlst R/W

BROADWAY BOULEVARD

Exlst R/W



LEGEND

 New Pavement

ROADWAY PLAN

3 OF 3

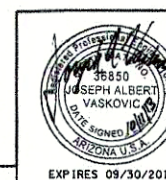
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DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

16
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37



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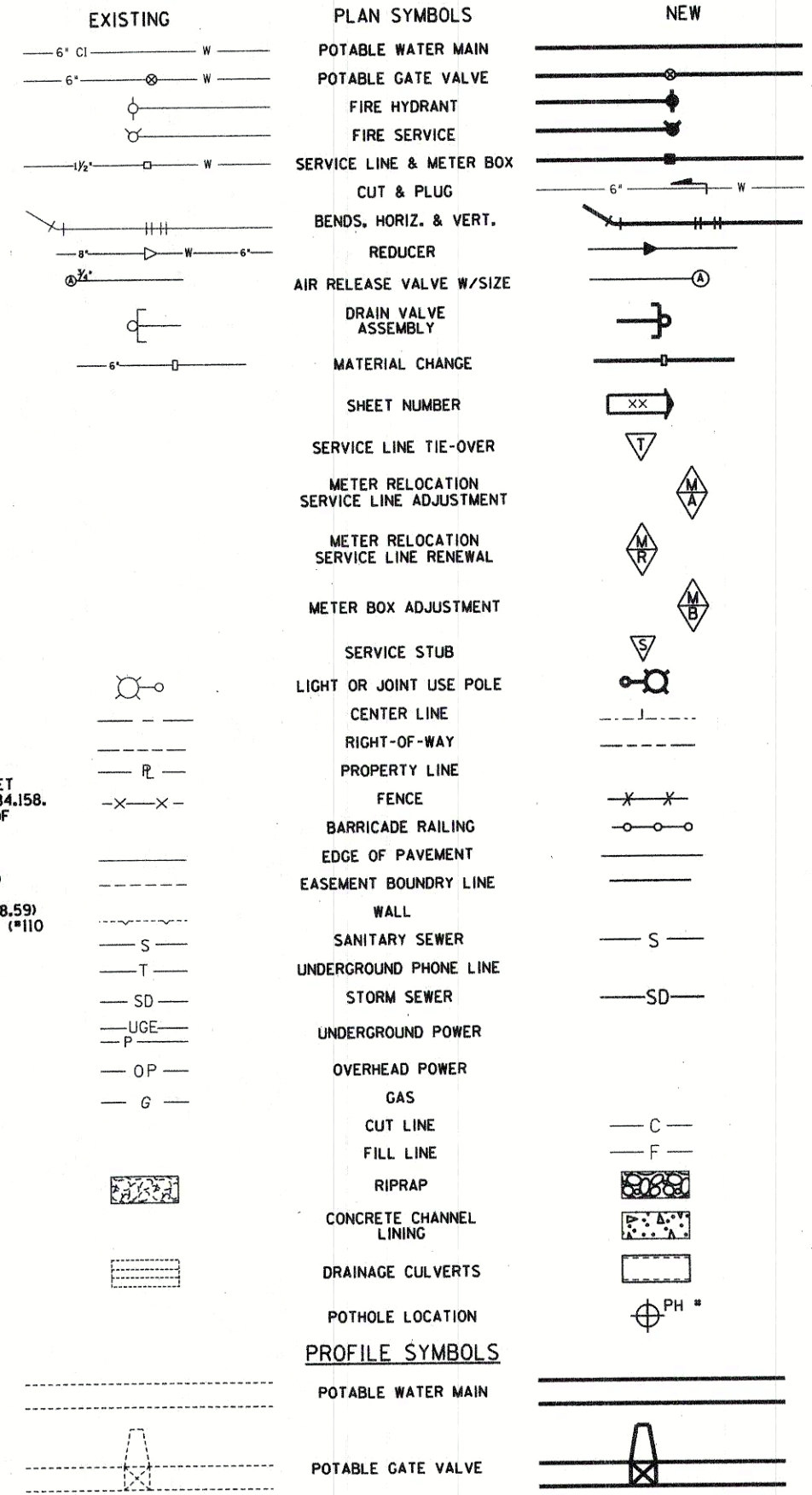
| NO. | DATE | REVISION | BY | CHKD. | APPR. |
|-----|------|----------|----|-------|-------|
| | | | | | |

WATER SYSTEM MODIFICATION NOTES

WATER SYSTEM MODIFICATION LEGEND

1. ACCEPTANCE CONDITIONS:
 - A. THIS PROJECT IS ACCEPTED BY THE CITY OF TUCSON WATER DEPARTMENT FOR SUBSTANTIAL CONCURRENCE WITH STANDARD SPECIFICATIONS AND DETAILS.
 - B. ACCEPTANCE OF THESE PLANS IS VALID FOR 2 YEARS AFTER THE DATE OF THE SIGNATURE.
 - C. THE WARRANTY AND GUARANTEE DURATION FOR ALL WATER WORK ON THIS PROJECT SHALL BE TWO (2) YEARS COMMENCING ON THE DATE OF FINAL ACCEPTANCE OF THE HOUGHTON ROAD/BROADWAY BOULEVARD INTERSECTION IMPROVEMENT PROJECT.
2. CURRENT STANDARDS:
 - A. ALL WATER SYSTEM MODIFICATION CONSTRUCTION WORK SHALL CONFORM TO THE FOLLOWING STANDARDS AND SPECIAL PROVISIONS:
 - A. THE PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2003 EDITION.
 - B. THE WATER SYSTEMS MODIFICATIONS SPECIAL PROVISIONS FOR THIS PROJECT.
3. WATER SYSTEM MODIFICATION PRE-CONSTRUCTION PROCEDURE:
 - A. THE CONTRACTOR SHALL CONTACT THE CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION SECTION (791-2665) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY WATER WORK. THE CONTRACTOR SHALL REFER TO THE CITY OF TUCSON WATER DEPARTMENT PLAN NO. 5-030-2013.
 - B. THE CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION SECTION WILL SCHEDULE THE TIME AND PLACE FOR THE MEETING.
 - C. NO WATER SYSTEM CONSTRUCTION SHALL BEGIN UNTIL A "NOTICE TO PROCEED" HAS BEEN ISSUED BY THE CITY OF TUCSON WATER DEPARTMENT.
 - D. ANY WATER WORK INSTALLED PRIOR TO THE NOTICE TO PROCEED DATE SHALL BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
4. DIMENSIONS SLOPES AND GRADES:
 - A. ALL DIMENSIONS, SLOPES AND GRADES OF EXISTING WATER LINES ARE TAKEN FROM "AS BUILT" DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT INFORMATION BEFORE ORDERING ANY SPECIAL FITTINGS OR EQUIPMENT.
5. SHUT DOWN OF DISTRIBUTION MAINS:
 - A. SHUT-DOWN OF THE EXISTING WATER SYSTEM REQUIRING THE OPERATION OF TUCSON WATER VALVES SHALL BE COORDINATED THROUGH A CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION INSPECTOR.
6. DEPTH OF NEW WATER MAINS:
 - A. NEW WATER MAINS SHALL BE INSTALLED AT A MINIMUM DEPTH OF THREE FEET (3.0') FROM THE BOTTOM OF ANY EXCAVATION OR SCARIFICATION TO THE TOP OF THE NEW PIPE. THIS DEPTH SHALL BE MAINTAINED FOR FIVE FEET (5.0') BEYOND ANY EXCAVATION, MEASURED PERPENDICULAR TO THE PROPOSED STRUCTURE OR EDGE OF THE PROPOSED ROADWAY.
 - B. IN NO CASE SHALL NEW WATER MAINS BE INSTALLED LESS THAN THREE AND SIXTY SEVEN HUNDRETH OF A FOOT (3.67') DEEP FROM THE FINISHED GRADE TO THE TOP OF THE NEW PIPE.
 - C. THESE MINIMUMS SHALL APPLY TO ALL SERVICE LINES UNLESS OTHERWISE NOTED ON THE PLANS.
7. DEPTH OF NEW SERVICE LINES:
 - A. NEW SERVICE LINES, TWO INCH (2") AND SMALLER, SHALL BE INSTALLED AT A MINIMUM DEPTH OF TWO FEET (2.0') FROM THE BOTTOM OF ANY EXCAVATION OR SCARIFICATION TO THE TOP OF THE NEW SERVICE LINE. THIS DEPTH SHALL BE PERPENDICULAR TO THE PROPOSED STRUCTURE OR EDGE OF THE PROPOSED ROADWAY.
 - B. IN NO CASE SHALL NEW SERVICE LINES BE INSTALLED LESS THAN THREE FEET (3.0') DEEP FROM THE FINISHED GRADE TO THE TOP OF THE NEW SERVICE LINE.
 - C. THESE MINIMUMS SHALL APPLY TO ALL SERVICE LINES UNLESS OTHERWISE NOTED ON THE PLANS.
8. WATER METERS AND METER BOXES:
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER METERS AND METER BOXES IN THE CONSTRUCTION AREA. THIS WILL INCLUDE BUT NOT BE LIMITED TO:
 - A. REMOVAL OF EXISTING METERS, REPLACEMENT COORDINATION AND INSTALLATION OF THE NEW AUTOMATIC METER READING (AMR) WATER METERS.
 - B. DURING THIS OPERATION, EXISTING METERS SHALL BE TAGGED WITH THE CORRECT ADDRESS AND RETURNED TO TUCSON WATER. ALL EXISTING WATER METERS THAT ARE TO BE LOCATED AS PART OF THIS PROJECT THAT ARE NOT ALREADY AUTOMATED, ARE TO BE REPLACED WITH AMR TYPE METERS AT LOCATIONS/ADDRESSES SPECIFIED ON THE PLANS.
 - C. PROTECTION OF METERS. AT ALL TIMES THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID ANY DAMAGE TO METERS. THE CONTRACTOR SHALL PROVIDE FOR THEIR SAFE STORAGE AND THE PROPER EQUIPMENT FOR THEIR HANDLING.
 - D. ACCESS TO METERS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL IN-SERVICE METERS DURING CONSTRUCTION. AT THE CLOSE OF THE PROJECT THE CONTRACTOR SHALL ENSURE THAT ALL METERS ARE LEFT ACCESSIBLE AND THAT ALL METER BOXES ARE ADJUSTED TO FINAL GRADE.
 - E. TUCSON WATER SHALL SUPPLY ALL NEW AMR WATER METERS TO BE INSTALLED AS PART OF THIS PROJECT.
9. FIRE PROTECTION SHUT DOWN:
 - A. FORTY-EIGHT (48) HOURS PRIOR TO SHUT-DOWN OF ANY FIRE HYDRANTS OR FIRE PROTECTION SERVICE LINES THE CONTRACTOR SHALL PROVIDE THE CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION INSPECTOR WITH A WRITTEN REPORT INDICATING THE LOCATION AND DURATION OF ANY FIRE HYDRANT OR FIRE PROTECTION SERVICE SHUT-DOWNS.
 - B. THE CONTRACTOR SHALL NOTIFY THE CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION INSPECTOR WHEN FIRE HYDRANTS OR FIRE PROTECTION SERVICES ARE BACK IN SERVICE.
10. MAINTAIN SERVICE TO CUSTOMERS:
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICE TO ALL WATER CUSTOMERS DURING CONSTRUCTION.
 - B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SERVICES WILL BE EFFECTED BY THIS PROJECT.
 - C. IT MAY BE NECESSARY TO ACCOMPLISH TIE-OVERS, RE-CONNECTIONS, ETC., WHILE BUSINESS CUSTOMERS ARE CLOSED.
 - D. IF INTERRUPTION OF SERVICE IS UNAVOIDABLE THE CONTRACTOR SHALL NOTIFY THE WATER INSPECTOR A MINIMUM OF A 48 HOURS IN ADVANCE TO COORDINATE SHUT-DOWNS. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION TO THE CUSTOMER.
 - E. IF THE CONTRACTOR CHOOSES TO ABANDON ANY PORTION OF THE EXISTING WATER SUPPLY SYSTEM WITHOUT CONCURRENT NEW CONSTRUCTION AS CALLED FOR ON THE PLANS THE CONTRACTOR SHALL PROVIDE ANY AND ALL MATERIALS AND CONSTRUCTION OF A TEMPORARY OR PERMANENT WATER SYSTEM TO MAINTAIN CONTINUED WATER SERVICE TO CUSTOMERS AT NO ADDITIONAL COST.
11. SPECIAL USE WATER PERMITS:
 - A. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL APPLY FOR TWO (2) SPECIAL WATER USE PERMITS FROM THE CITY OF TUCSON DEPARTMENT COMMERCIAL SECTION
 - A. CONSTRUCTION WATER SPECIAL PERMIT: THERE WILL BE NO CHARGE FOR THIS PERMIT, BUT THE CONTRACTOR MUST PAY THE SUM OF (\$195) PLUS TAX AS THE ESTIMATED COST OF THE WATER TO BE USED. THIS WATER USED FOR TRENCH SETTLING, DISINFECTION AND TESTING.
 - B. METERED FIRE HYDRANT ONLY PERMIT: THIS NON-TRANSFERABLE PERMIT WILL ENTITLE THE CONTRACTOR TO USE WATER THROUGH A METER FROM EXISTING FIRE HYDRANTS AT APPROVED LOCATIONS. WATER USED UNDER THIS PERMIT IS FOR GENERAL CONSTRUCTION PURPOSES SUCH AS DUST CONTROL, SITE PREPARATION, ETC.

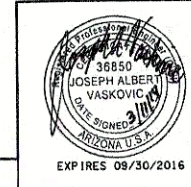
12. NEW MATERIAL:
 - A. ALL MATERIALS, FITTINGS, AND APPURTENANCES CALLED FOR ON THE PLANS, OR REQUIRED FOR A COMPLETE INSTALLATION, SHALL BE NEW. NO REFURBISHED ITEMS OR MATERIALS WILL BE ALLOWED.
13. VALVE BOXES:
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL NEW AND EXISTING WATER VALVE BOXES TO THE FINISHED GRADE PER W-300.
14. JOINT RESTRAINT:
 - A. THE CONTRACTOR SHALL USE MECHANICALLY RESTRAINED JOINTS AT ALL CHANGES OF DIRECTION IN THE WATER MAINS. THE LENGTHS OF RESTRAINED PIPE ON BOTH SIDES OF THE RESTRAINED JOINT SHALL BE AS CALLED FOR ON THE PLANS OR AS PER STANDARD DETAIL W-600. WITH THE APPROVAL OF THE ENGINEER AND THE CITY OF TUCSON WATER DEPARTMENT, THE CONTRACTOR MAY USE CONCRETE THRUST BLOCKING IN LIEU OF MECHANICALLY RESTRAINED JOINTS. CONCRETE THRUST BLOCKING SHALL COMPLY WITH STANDARD DETAIL W-610.
15. MARKING TAPE:
 - A. IF ANY EXISTING DETECTABLE MARKING TAPE IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROVED NEW TAPE. NEW MARKING TAPE SHALL BE INCIDENTAL TO CONSTRUCTION AND THERE SHALL BE NO ADDITIONAL CHARGE FOR REINSTALLATION.
16. TRACER WIRE:
 - A. THIS PROJECT WILL HAVE TRACER WIRE INSTALLED. IF ANY EXISTING TRACER WIRE IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL NEW TRACER WIRE TO REPLACE THE EXISTING. THERE SHALL BE NO ADDITIONAL CHARGE FOR THIS REINSTALLATION. THE TRACER WIRE SHALL BE CERTIFIED BY A LICENSED ELECTRICAL CONTRACTOR FOR CONTINUITY PRIOR TO FINAL ROADWAY PAVEMENT. FINAL ACCEPTANCE WILL NOT BE GRANTED UNTIL CERIFICATION IS RECEIVED BY TUCSON WATER.
17. WATERLINE CONNECTION:
 - A. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION AND DEPTH OF EACH WATER MAIN TIE-IN LOCATION AND CONNECTION. ASSOCIATED COSTS ARE TO BE INCIDENTAL TO WATER LINE WORK.
18. EASEMENTS AND THEIR LOCATIONS ARE PRESENTED BASED ON LIMITED RECORD DOCUMENT. CONTRACTOR SHALL COORDINATE WITH UTILITIES REGARDING WORK IN THE VICINITY OF THEIR LINES.
19. THE MINIMUM HORIZONTAL SEPARATION IS FIVE (5) FEET (FROM OUTSIDE WATER LINE TO OUTSIDE ELECTRICAL POLE/CONDUIT). MINIMUM VERTICAL SEPARATION IS ONE (1) FOOT (FROM OUTSIDE WATER LINE TO OUTSIDE ELECTRICAL CONDUIT) OR ANY OTHER FEATURE.
20. VERTICAL DATUM:
 - A. 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.
21. BASIS OF BEARING:
 - A. 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.
22. EXISTING UTILITIES:
 - A. EXISTING UTILITIES, AS DEPICTED ON THE PROJECT PLANS, ARE BASED ON LEVEL "D", "C", "B" & "A" SUE AND/OR AS-BUILT PLANS. EXISTING UTILITY ELEVATION DATA, AS DEPICTED IN PROFILE, IS BASED ON LEVEL "A" SUE (POTHOLE DATA), AS-BUILT PLANS AND/OR APPROXIMATE BURIAL DEPTH. CONTRACTOR SHALL FIELD VERIFY UTILITY CONFLICTS AND ADJUST WATER LINE INSTALLATION, AT THE DIRECTION OF THE ENGINEER.
23. TEMPORARY RELOCATION:
 - A. IF CONSTRUCTION ACTIVITIES REQUIRE, CONTRACTOR SHALL PROVIDE TEMPORARY RELOCATION OF TUCSON WATER FACILITIES (FIRE HYDRANTS, "BACK FLOW PREVENTERS, WATER METERS" AND ASSOCIATED APPURTENANCES) DURING CONSTRUCTION ACTIVITIES TO MAINTAIN EXISTING FIRE "SERVICE TO ALL TW CUSTOMERS". TEMPORARY RELOCATION OF FACILITIES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL MEASUREMENT OR PAYMENT SHALL BE PROVIDED FOR TEMPORARY RELOCATIONS.



WATERLINE MODIFICATION PLAN W2 OF W5

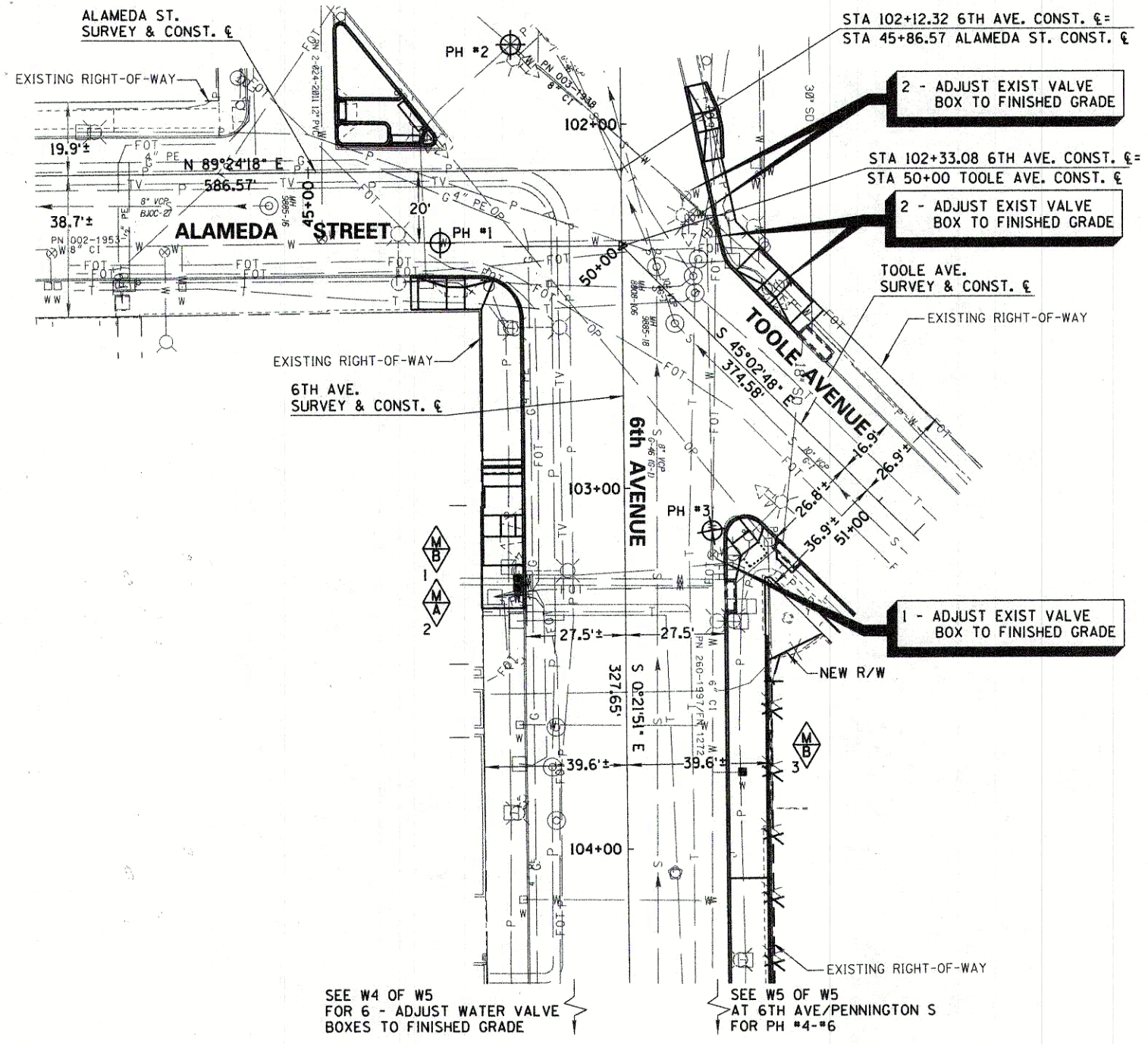
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MATERIAL QUANTITIES SUMMARY

| ITEM NUMBER | ITEM DESCRIPTION | UNIT | SHEET 18 | |
|-------------|--|------|----------|----------|
| | | | EST. | AS BUILT |
| 5100280 | Potholing, Location of Existing Water Facilities | Each | 6 | |
| 5101604 | Pipe, Copper, 1" w/Fittings | L.F. | 5 | |
| 5103101 | Adjust Existing Valve Box and Cover | Each | 11 | |
| 5108124 | Meter Relocation, Service Line Adjustment (M/A) 1" | Each | 1 | |
| 5108194 | Meter Box Adjustment, 1" (M/B) | Each | 2 | |

NOTES

- (6) POTHOLES ESTIMATED TO VERIFY WATER FACILITIES FOR TRAFFIC SIGNAL. SEE THIS SHEET AND SHEETS W4 AND W5 FOR LOCATIONS. SEE SPECIAL PROVISIONS ITEM 5100280 POTHOLING, LOCATION OF EXISTING WATER FACILITIES, FOR APPROXIMATE LOCATIONS.
- SEE THIS SHEET AND W4 FOR ITEM 5103101 ADJUST EXISTING VALVE BOX AND COVER.

6 - ADJUST EXIST VALVE BOX TO FINISHED GRADE SEE W4 OF W5

STA 105+60±, 5'± LT
 STA 105+72±, 3'± LT
 STA 105+74±, 3'± LT
 STA 107+28±, 22'± LT
 STA 108+28±, 22'± LT
 STA 109+61±, 22'± LT

| SERVICE WORK | | | |
|--------------|---------------------|---------------------------------|----|
| CODE | ADDRESS | PIPE SIZES & QUANT. (IN FEET ±) | |
| 1 | METER NUMBER & SIZE | 3/4" | 2" |
| | | 1" | 2" |
| 2 | 135 N. 6 TH AVENUE | 5 | |
| 3 | ● 83206823 | 5/8" | |
| | | | |
| 3 | STA 103+79± | | |

| PROPOSED POTHOLES | |
|-------------------|----------------------|
| PH #1 | STA 45+36±, 20'± Rt |
| PH #2 | STA 45+56±, 35'± Lt |
| PH #3 | STA 103+12±, 24'± Lt |
| PH #4 | STA 105+45±, 3'± Lt |
| PH #5 | STA 105+52±, 36'± Lt |
| PH #6 | STA 106+02±, 11'± Lt |

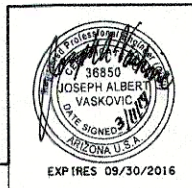
● DENOTES EXISTING METER TO BE REPLACED WITH A NEW AMR PROVIDED BY TUCSON WATER. METER BOX TO BE REPLACED.

WATERLINE MODIFICATION PLAN W3 OF W5

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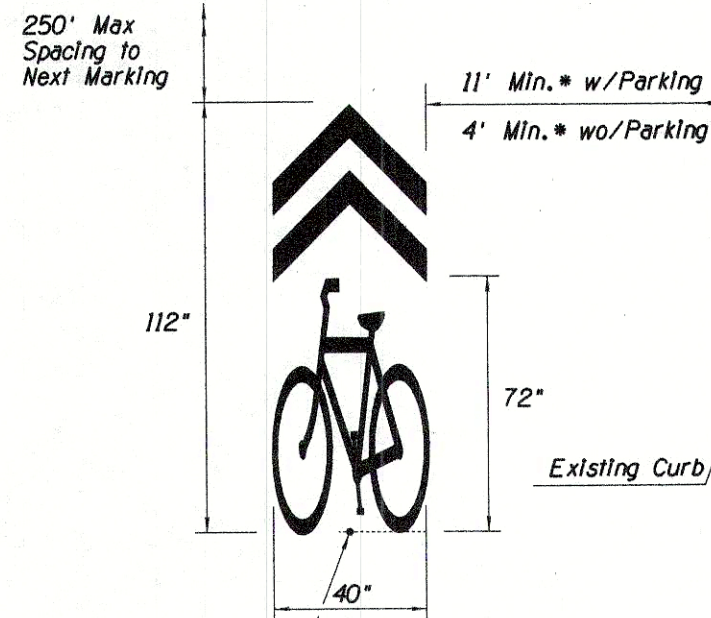
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General Notes - Pavement Markings

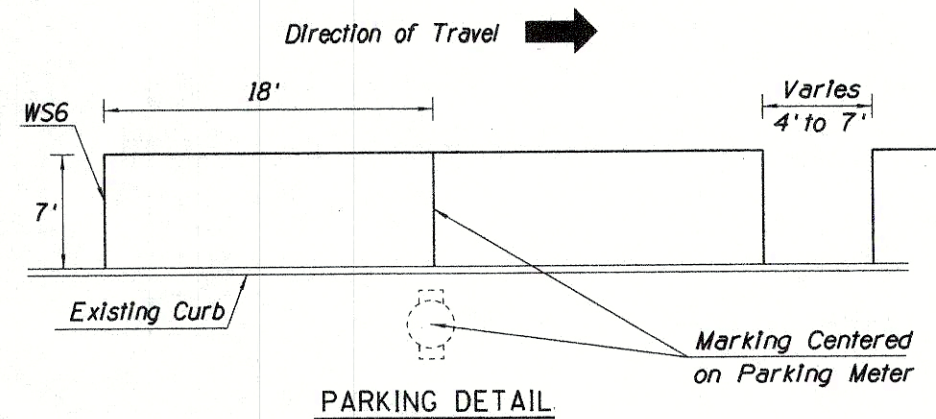
1. All pavement markings shall conform to Pima County/City of Tucson Standards And Specifications.
2. The permanent pavement markings may be modified as directed by the Traffic Engineer.
3. Design Speed: 6th Avenue- 30 MPH, Posted Speed : 25 MPH
Design Vehicle: WB-50
4. All lane dimensions are from center 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. 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.



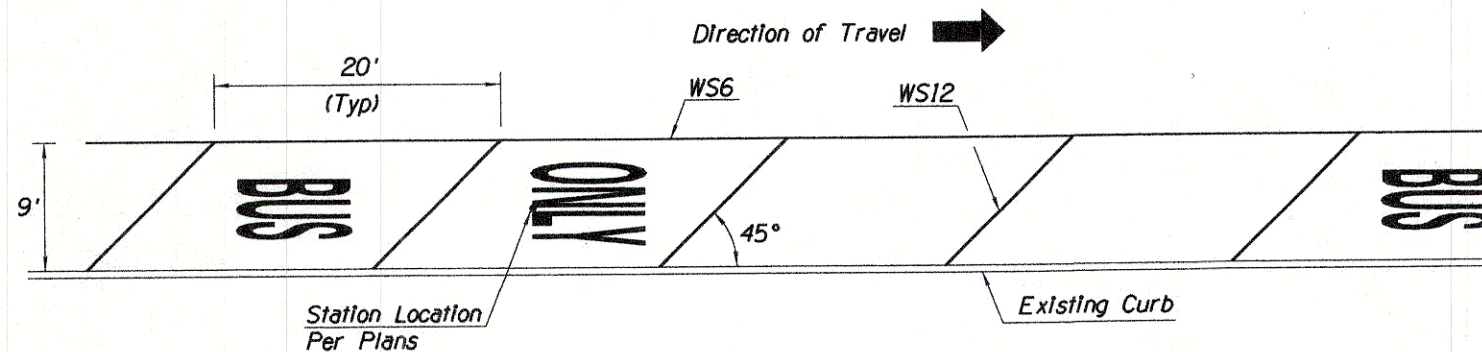
Station Location
Per Plans

* Contractor shall consult with Traffic Engineer regarding placement of Shared Lane Marking prior to installation.

SHARED LANE DETAIL



PARKING DETAIL



BUS DETAIL

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. | 3399 | |
| | 7040020 Yellow | L.F. | 2276 | |
| | Turquoise** | L.F. | 50 | |
| Permanent Pavement Markings, Thermoplastic (thickness = 0.090") | 7040110 White | L.F. | 4086 | |
| | 7040030 Single Arrow | EA. | 8 | |
| | 7040040 Double Arrow | EA. | 2 | |
| Permanent Pavement Markings, Preformed Type I | 7040060 Only | EA. | 7 | |
| | 7040070 Bus-Only | EA. | 4 | |
| | 7040080 Shared Lane | EA. | 15 | |
| | 7060020 Type C | EA. | 43 | |
| | 7060025 Type D | EA. | 58 | |
| Raised Pavement Markers | 7060040 Type F | EA. | 1 | |
| | 7080001 White | L.F. | 7486 | |
| | 7080001 Yellow | L.F. | 2276 | |
| Temporary Paint | 7080010 Symbol or Legend | EA. | 33 | |

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

** Turquoise pavement marking shall be incidental to Item 7040010. Color shall match the existing, adjacent stripe and be approved by Traffic Engineer prior to placement.

LEGEND

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

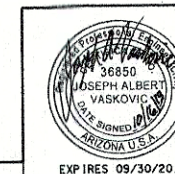
PAVEMENT MARKING PLAN 1 OF 2

DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION
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PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

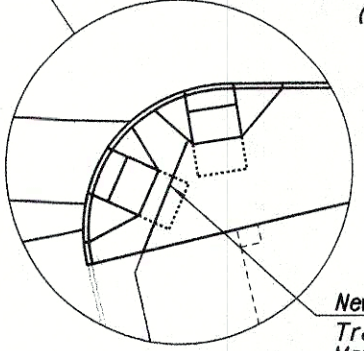
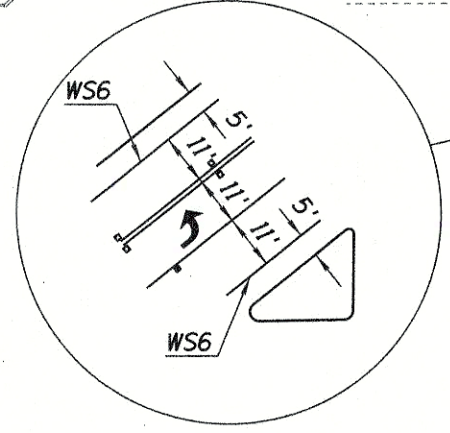
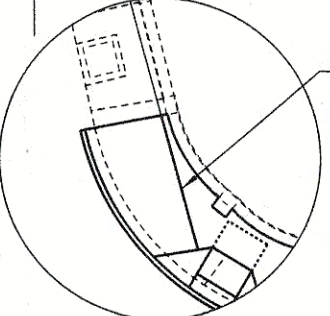
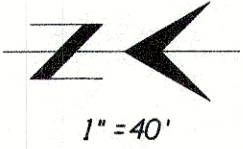
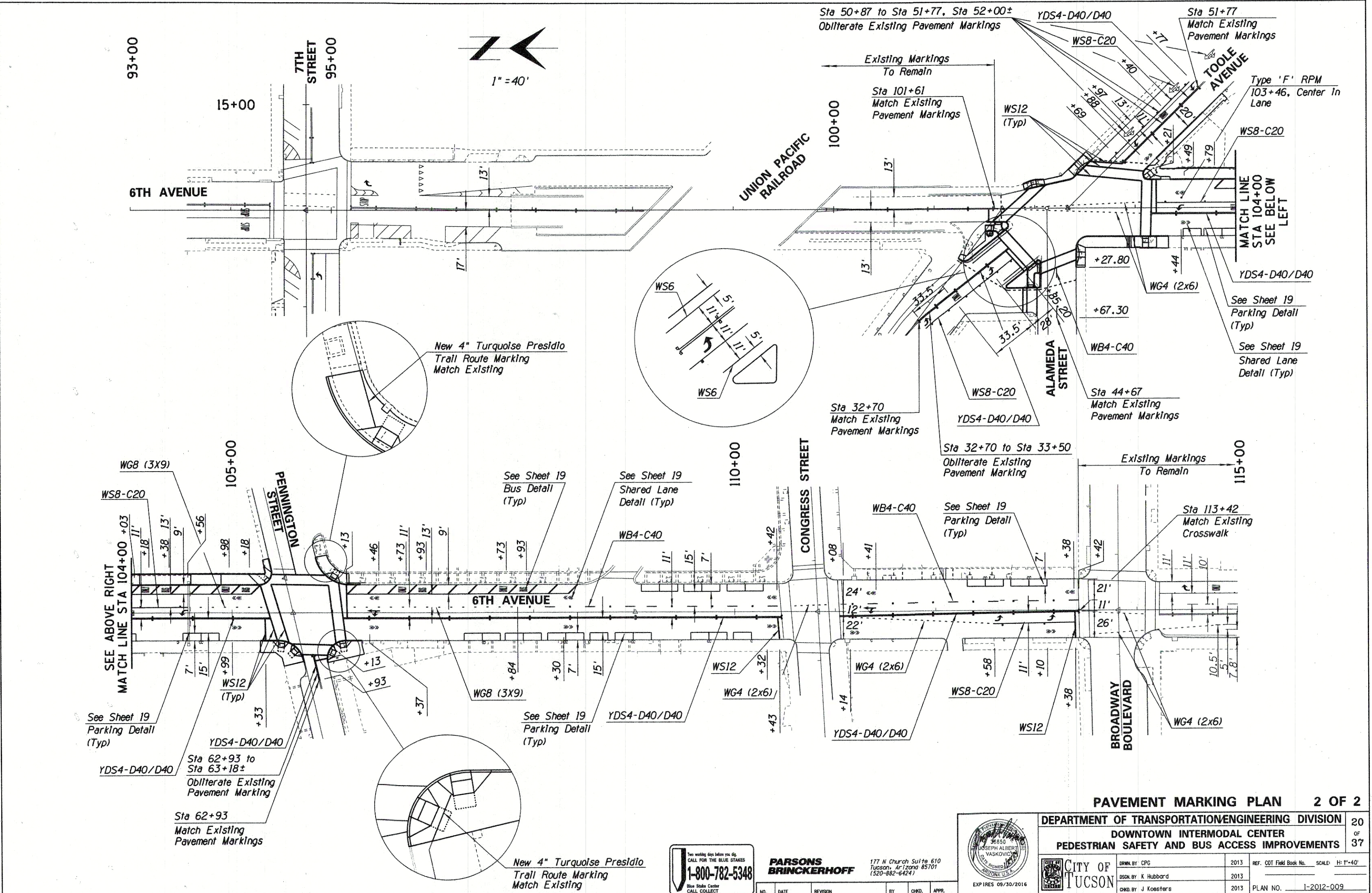
19 OF 37



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



| | | | |
|---------------------|------|-------------------------|------------|
| DRWN BY: CPG | 2013 | REF. COT Field Book No. | SCALE: NTS |
| DSGN BY: K Hubbard | 2013 | PLAN NO. | 1-2012-009 |
| CHKD BY: J Koesters | 2013 | | |



PAVEMENT MARKING PLAN 2 OF 2

| | | |
|---|----------------------|---|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 20 OF 37 |
| DRAWN BY: CPG DESIGNED BY: K Hubbard CHECKED BY: J Koesters | 2013 2013 2013 | REF. COI Field Book No. _____ SCALE: H: 1"=40' PLAN NO. 1-2012-009 |



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 (520) 882-6424

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1-800-782-5348
 Blue Stake Center
 CALL COLLECT

General Notes - Signing

1. The Design Speed for 6th Avenue is 30 MPH. The Posted Speed Limit for 6th Avenue is 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. All sign station locations are approximate. The contractor shall verify actual sign locations with the Traffic Engineer prior to the installation of signs.
7. The contractor shall be responsible for coordinating all work with Blue Stake and for installing all traffic signs in the field.
8. 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.
9. All new signs shall have aluminum backing, unless otherwise specified.
10. All new signs shall have 0.080 gauge aluminum backing and radius cut corners, except street-name sign panels taller than 6 inches which shall have 0.125 gauge aluminum backing unless otherwise noted.
11. Block numbers for all street-name signs shall be approved by Traffic Engineering before sign fabrication.
12. All salvaged signs shall be returned to the City of Tucson Sign Shop. Coordinate with Traffic Engineering regarding the time and location for delivery of the salvaged signs.

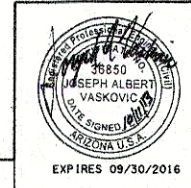
Signing Quantity Summary

| Estimated Quantities | | | |
|--------------------------|---------------------------------------|--------|----------|
| ITEM | | UNIT | QUANTITY |
| SIGN PANEL SHEETING TYPE | Type IV | SQ FT | 67 |
| | Type XI (Diamond Grade) | SQ FT | 64 |
| | Type XI (Diamond Grade) (0.125 Gauge) | SQ FT | 20 |
| SIGN POSTS | 2S Perforated Sign Post | LIN FT | 34 46 |
| | 2S Foundation | EACH | 3 4 |

SIGNING PLAN 1 OF 4



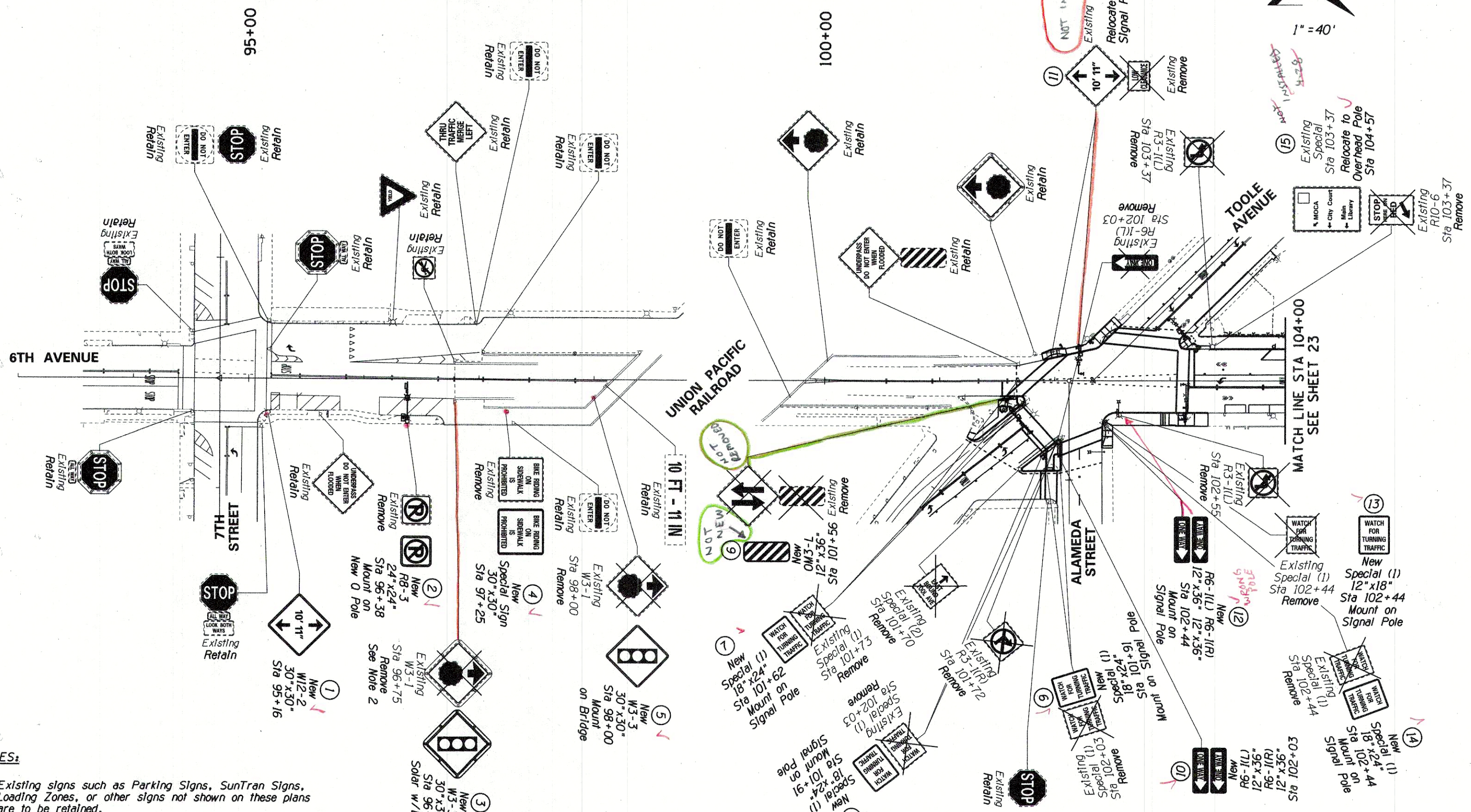
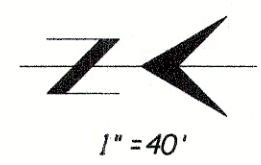
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS

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

21
OF
37



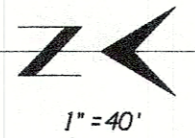
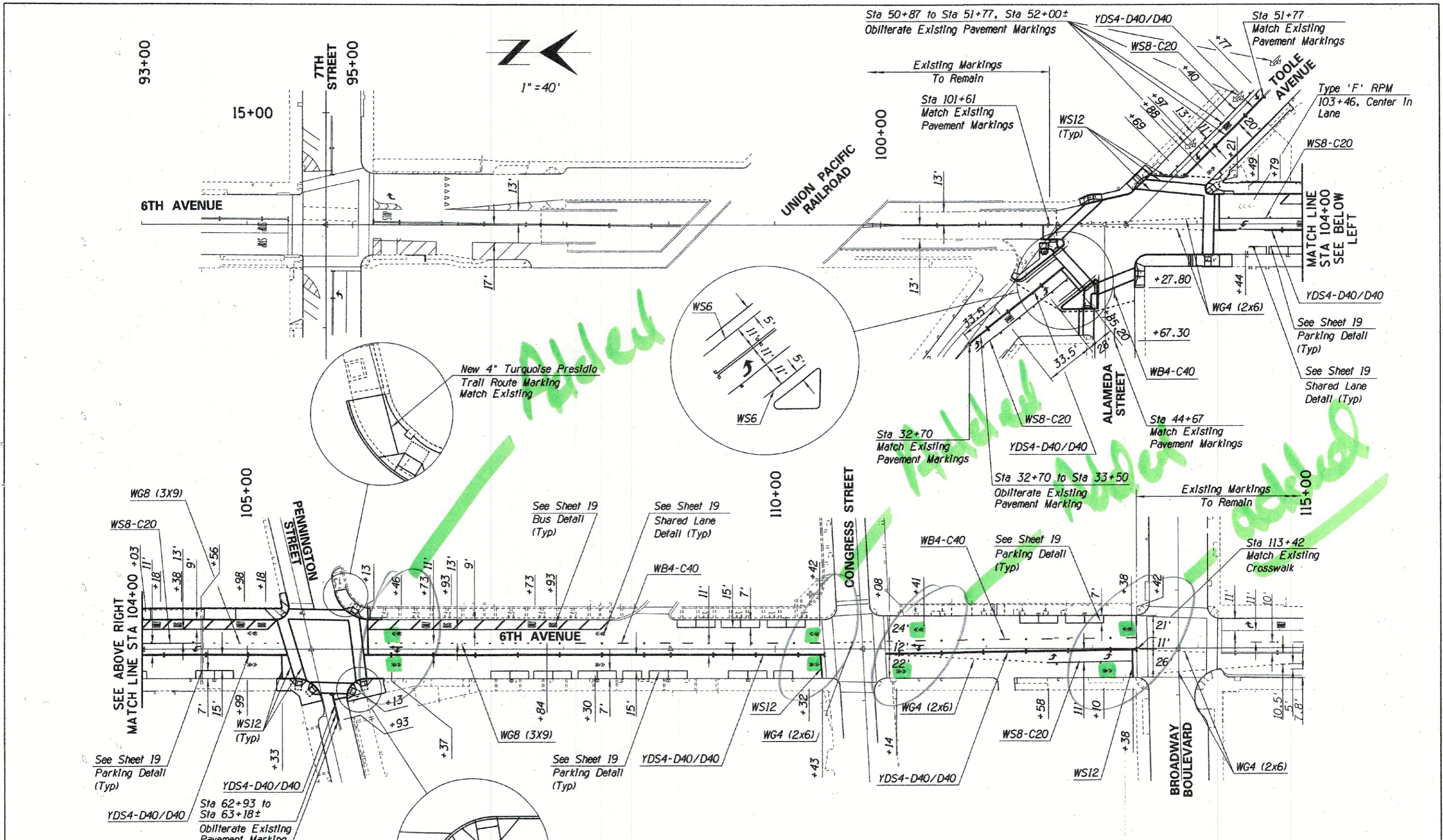
- NOTES:**
- Existing signs such as Parking Signs, SunTran Signs, Loading Zones, or other signs not shown on these plans are to be retained.
 - Remove sign and Solar Panel without damaging sign, LEDs or Solar Panel. Coordinate with Traffic Engineering for location for reinstallation.

SIGNING PLAN 2 OF 4

| | | | | |
|--|---------------------|------|-------------------------|------------------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | | | 22 |
| DOWNTOWN INTERMODAL CENTER | | | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | | | 37 |
| | DRWN BY: CPG | 2013 | REF. COT Field Book No. | SCALE: H: 1"=40' |
| | DSGN BY: K Hubbard | 2013 | | |
| | CHKD BY: J Koesters | 2013 | PLAN NO. | I-2012-009 |

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1-800-782-5348
Blue Stake Center
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Tucson, Arizona 85701
1520-882-6424



Added

Added

SEE ABOVE RIGHT
MATCH LINE STA 104+00 +03

MATCH LINE
STA 104+00
SEE BELOW
LEFT

See Sheet 19
Parking Detail
(Typ)

See Sheet 19
Bus Detail
(Typ)

See Sheet 19
Shared Lane
Detail (Typ)

See Sheet 19
Parking Detail
(Typ)

See Sheet 19
Parking Detail
(Typ)

See Sheet 19
Shared Lane
Detail (Typ)

YDS4-D40/D40
Sta 62+93 to
Sta 63+18±
Obllterate Existing
Pavement Marking

Sta 62+93
Match Existing
Pavement Markings

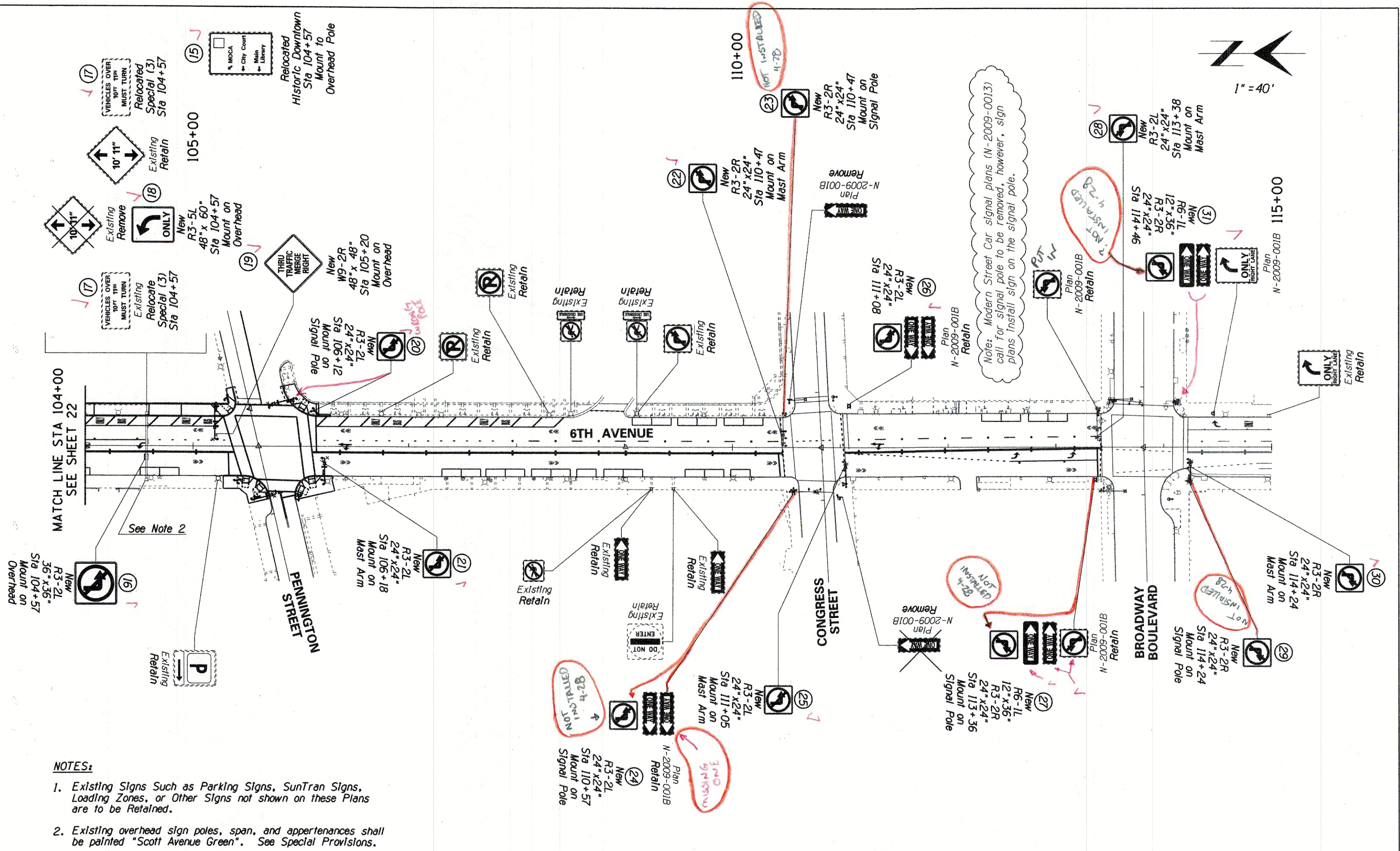
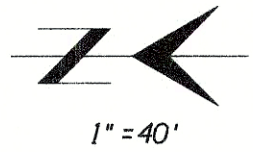
New 4" Turquoise Presidio
Trail Route Marking
Match Existing

Two working days before the day
CALL FOR THE BLUE STAKES
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Blue Stake Center
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| | |
|---|----------------------|
| PAVEMENT MARKING PLAN 2 OF 2 | |
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | |
| DOWNTOWN INTERMODAL CENTER | |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | |
| CITY OF TUCSON | 20 OF 37 |
| DRAWN BY: CPG DESIGNED BY: K Hubbard CHECKED BY: J Koesters | 2013 2013 2013 |
| REF: DOT Field Book No. | SCALE: 1/4"=40' |
| PLAN NO. | 1-2012-009 |



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. Existing overhead sign poles, span, and appertenances shall be painted "Scott Avenue Green". See Special Provisions.

Note: Modern Street signal plans (N-2009-0013) call for signal pole to be removed, however, sign plans install sign on the signal pole.

82th DETAIL SIGN

3rd SWISS

NOT INSTALLED 4-28

NOT INSTALLED 4-28

NOT INSTALLED 4-28

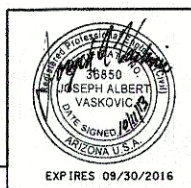
NOT INSTALLED 4-28

MATCH LINE STA 104+00 SEE SHEET 22

See Note 2

SIGNING PLAN 3 OF 4

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



| | | | |
|---------------------|------|-------------------------|-----------------|
| DRWN BY: CPG | 2013 | REF. COT Field Book No. | SCALE: H=1"=40' |
| DSGN BY: K Hubbard | 2013 | | |
| CHKD BY: J Koesters | 2013 | PLAN NO. | I-2012-009 |



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(520-882-6424)

| NO. | DATE | REVISION | BY | CHKD. | APPR. |
|-----|------|----------|----|-------|-------|
| | | | | | |

| SIGN NUMBER | STATION | SIGN CODE | LEGEND | WIDTH (IN) | HEIGHT (IN) | AREA (SF) | MIN. SHEETING TYPE | MOUNTING TYPE | | | COMMENTS |
|-------------|---------|-------------|------------------------------------|------------|-------------|-----------|--------------------|---------------|------|-------------------|--|
| | | | | | | | | NO. POSTS | TYPE | TOTAL LENGTH (FT) | |
| 1 | 95+16 | W12-2 | 10' 11" | 30 | 30 | 6.25 | XI | | | | MOUNT ON LIGHT POLE |
| 2 | 96+38 | R8-3 | NO PARKING SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT ON NEW O POLE |
| 3 | 96+79 | W3-3 | SIGNAL AHEAD SYMBOL | 30 | 30 | 6.25 | XI | 1 | 2S | 12 | SOLAR W/FLASHING LEDS |
| 4 | 97+25 | SPECIAL | BIKE RIDING ON SIDEWALK PROHIBITED | 30 | 30 | 6.25 | IV | 1 | 2S | 12 | |
| 5 | 98+00 | W3-3 | SIGNAL AHEAD SYMBOL | 30 | 30 | 6.25 | XI | | | | MOUNT ON BRIDGE |
| 6 | 101+56 | OM-1L | OBJECT MARKER | 12 | 36 | 3 | IV | 1 | 2S | 10 | |
| 7 | 101+62 | SPECIAL (I) | WATCH FOR TURNING TRAFFIC | 18 | 24 | 3 | IV | | | | MOUNT ON SIGNAL POLE |
| 8 | 101+91 | SPECIAL (I) | WATCH FOR TURNING TRAFFIC | 18 | 24 | 3 | IV | | | | MOUNT ON SIGNAL POLE |
| 9 | 101+91 | SPECIAL (I) | WATCH FOR TURNING TRAFFIC | 18 | 24 | 3 | IV | | | | MOUNT ON SIGNAL POLE |
| 10 | 102+03 | R6-1R | ONE WAY | 12 | 36 | 3 | IV | 1 | 2S | 12 | |
| | 102+03 | R6-1L | ONE WAY | 12 | 36 | 3 | IV | | | | MOUNT WITH R6-1R |
| 11 | 101+97 | -- | 10' 11" NOT INSTALLED PER SC | | | | | | | | RELOCATE TO SIGNAL POLE |
| 12 | 102+44 | R6-1R | ONE WAY | 12 | 36 | 3 | IV | | | | MOUNT ON SIGNAL POLE |
| | | R6-1L | ONE WAY | 12 | 30 | 3 | IV | | | | MOUNT ON SIGNAL POLE |
| 13 | 102+44 | SPECIAL (I) | WATCH FOR TURNING TRAFFIC | 12 | 18 | 1.5 | IV | | | | MOUNT ON SIGNAL POLE |
| 14 | 102+44 | SPECIAL (I) | WATCH FOR TURNING TRAFFIC | 18 | 24 | 3 | IV | | | | MOUNT ON SIGNAL POLE |
| 15 | 103+37 | SPECIAL | HISTORIC DOWNTOWN | | | | | | | | RELOCATE TO STA 104+57, MOUNT ON OVERHEAD POLE |
| 16 | 104+57 | R3-2L | NO LEFT TURN SYMBOL | 36 | 36 | 9 | XI | | | | MOUNT ON OVERHEAD |
| 17 | 104+57 | -- | VEHICLES OVER 10FT HIGH MUST TURN | -- | -- | -- | | | | | RELOCATE TO RIGHT SIDE OF OVERHEAD |
| 18 | 104+57 | R3-5L | ONLY LEFT | 48 | 60 | 20 | XI | | | | MOUNT ON OVERHEAD, 0.125 GAUGE ALUM. BACKING |
| 19 | 105+20 | W9-2R | THRU TRAFFIC MERGE RIGHT | 48 | 48 | 16 | XI | | | | MOUNT ON OVERHEAD |
| 20 | 106+12 | R3-2L | NO LEFT TURN SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT ON SIGNAL POLE |
| 21 | 106+18 | R3-2L | NO LEFT TURN SYMBOL | 24 | 24 | 4 | XI | | | | MOUNT ON SIGNAL MAST ARM |
| 22 | 110+47 | R3-2R | NO RIGHT TURN SYMBOL | 24 | 24 | 4 | XI | | | | MOUNT ON SIGNAL MAST ARM |
| 23 | 110+47 | R3-2R | NO RIGHT TURN SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT ON SIGNAL POLE |
| 24 | 110+57 | R3-2L | NO LEFT TURN SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT ON SIGNAL POLE |
| 25 | 111+05 | R3-2L | NO LEFT TURN SYMBOL | 24 | 24 | 4 | XI | | | | MOUNT ON MAST ARM |
| 26 | 111+08 | R3-2L | NO LEFT TURN SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT ON SIGNAL POLE |
| 27 | 113+36 | R6-1L | ONE WAY | 12 | 36 | 3 | IV | | | | MOUNT ON SIGNAL POLE |
| | | R3-2R | *NO RIGHT TURN SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT BELOW R6-1L |
| 28 | 113+38 | R3-2L | NO LEFT TURN SYMBOL | 24 | 24 | 4 | XI | | | | MOUNT ON SIGNAL MAST ARM |
| 29 | 114+24 | R3-2R | NO RIGHT TURN SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT ON SIGNAL POLE |
| 30 | 114+24 | R3-2L | NO RIGHT TURN SYMBOL | 24 | 24 | 4 | XI | | | | MOUNT ON SIGNAL MAST ARM |
| 31 | 114+46 | R6-1L | ONE WAY | 12 | 36 | 3 | IV | | | | MOUNT ON PLAN N-2009-001 SIGN POLE |
| | | R3-2R | *NO RIGHT TURN SYMBOL | 24 | 24 | 4 | IV | | | | MOUNT ON PLAN N-2009-001 SIGN POLE |

Notes:

- All Foundations shall be constructed in concrete per Sheet 8-2 in PC/COT Signing Manual.
- The Engineer may shift a sign in order to achieve a more desirable location.
- Quantities are approximate and for the Contractor's Information only.

■ = 63.75 (-.25)
■ = 72.75 (+5.75)
■ = 20.00

○ = NOT INSTALLED OR NOT COMPLETE
○ = NOT PER PLAN

ALREADY
 INSTALLED
 BY TRAFFIC
 12/13

SIGNING PLAN 4 OF 4

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: NTS
 DSGN BY: K Hubbard 2013
 CHD BY: J Koesters 2013 PLAN NO. I-2012-009

24 OF 37

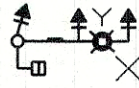
1-800-782-5348
 Blue Stakes Center
 CALL COLLECT

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 Tucson, Arizona 85701
 (520-882-6424)

PROFESSIONAL ENGINEER
 JOSEPH ALBERT
 VASKOVIC
 EXPIRES 09/30/2016

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. 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. √ designates City approved (Strobe com II) Emergency Vehicle Pre-Empt Sensor supplied and installed by the contractor.
13. × 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.
15. Contractor to field adjust conduit runs in order to maintain one-foot minimum clearance from all Southwest Gas facilities.



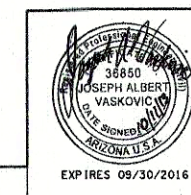
LEGEND

- 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
- Street name sign
- Flood Pre-empt sign

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, luminaires, 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.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 25 OF 37
 DOWNTOWN INTERMODAL CENTER
 PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS



| | | | | | |
|-------------|------------|------|-------------------------|------------|-----|
| DESIGNED BY | CPG | 2013 | REF. COT Field Book No. | SCALE | NTS |
| DRAWN BY | K Hubbard | 2013 | N/A | | |
| CHECKED BY | J Koesters | 2013 | PLAN NO. | I-2012-009 | |

The writing dies before you dig.
 CALL FOR THE BLUE STAKES
1-800-782-5348
 Blue Stake Center
 CALL COLLECT

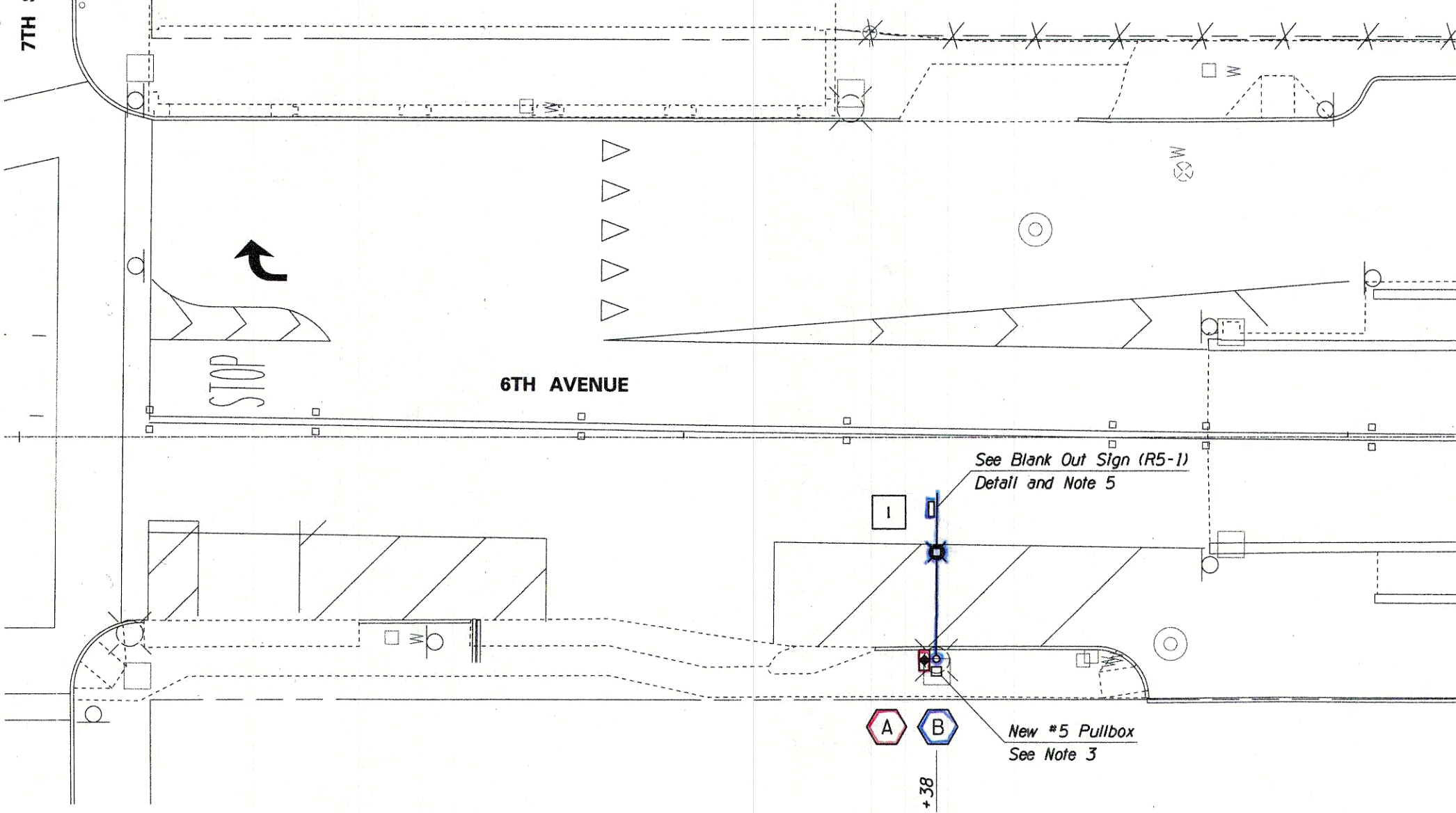
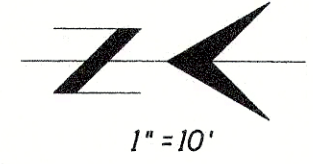
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 Tucson, Arizona 85701
 (520-882-6424)

| NO. | DATE | REVISION | BY | CHKD. | APPR. |
|-----|------|----------|----|-------|-------|
|-----|------|----------|----|-------|-------|

7TH STREET

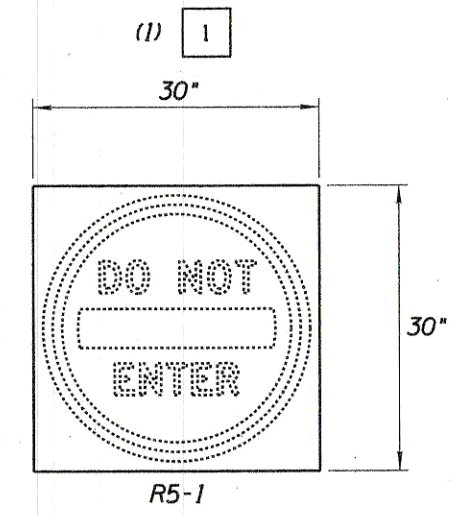
96+00

97+00



Notes

1. All equipment locations shall be confirmed by the engineer in the field prior to construction.
2. Contractor shall maintain existing lighting circuit. Existing lighting pullbox shall be replaced. Modifications to existing lighting conductors and conduit shall be covered under Miscellaneous Electrical Work.
3. Connect new conductors from new street light to existing conductors in new #5 Pullbox.
4. Mast arms for all poles shall be furnished with welded tenons only.
5. Install Flood Pre-Empt Blank-Out Sign on signal mast arm. Blank-out Sign shall be LED and use DC power.
6. Contractor shall furnish and Install Blank-Out Sign, Cabinet, Solar Powered Receiver, and Antenna for Item 7370310 Flood Pre-Empt (Solar).
7. Solar Powered Receiver to receive signal from companion transmitter installed in controller cabinet of 6th Ave./Toole Ave. Intersection See Traffic Signal plans 3 and 4 of 12.



**BLANK OUT SIGN (R5-1)
DETAIL NTS**

CABINET AND POLE SCHEDULE

| TRAFFIC SIGNAL CONTROL | | | | | REMARKS | LOCATION | |
|------------------------|------|-------------------|---|----------------|--|--|---|
| CABINET | TYPE | CONTROLLER | AUX. CONTROLLER | FOUNDATION | | | |
| (A) | | T 310 TYPE III | Solar Powered Receiver (DC Compatible) | Flood Pre-Empt | Mount Receiver w/Cabinet to New O Pole. Mount Receiver Antenna Pole (B) | STA 96+38.00, 33.40' Rt 6th AVE E | |
| POLE | | MAST ARMS | | SIGN | | REMARKS | LOCATION |
| NUMBER | TYPE | SIGNAL | LUMINARE | MOUNTING | ASS'Y | | |
| (B) | | "0" T 412 | 25' | 15' | TYPE II T 901 | 400 W, 480V HPS w/ Type III Full Cut off Mount Radio-Activated Blank-Out Sign w/legend "Do Not Enter" on Signal Mast Arm | (B) Sta 96+38.00, 33.40' Rt 6th Ave E |

**6TH AVE SOUTH OF 7TH ST
TRAFFIC SIGNAL PLANS 2 OF 12**

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

DRWN. BY: CPG
 DESN. BY: K Hubbard
 CHKD. BY: J Koesters

2013
 2013
 2013

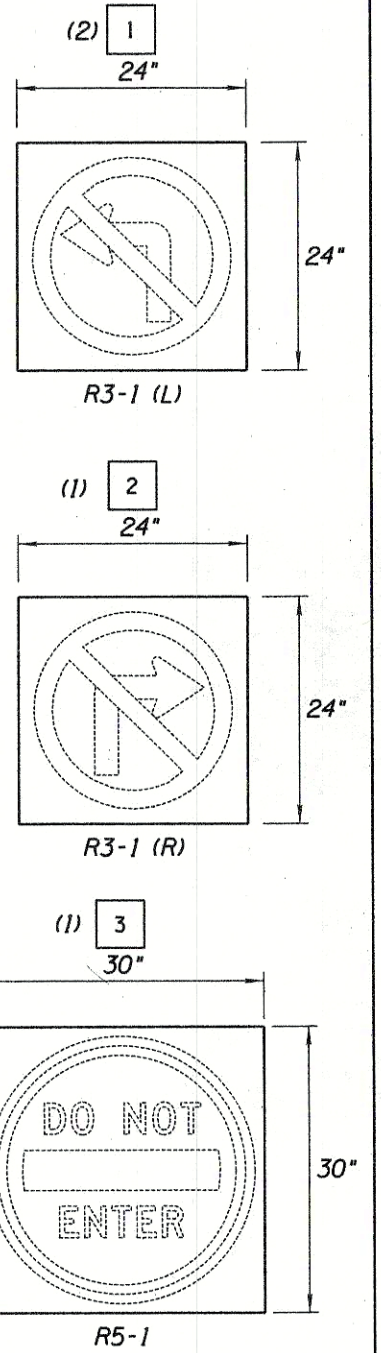
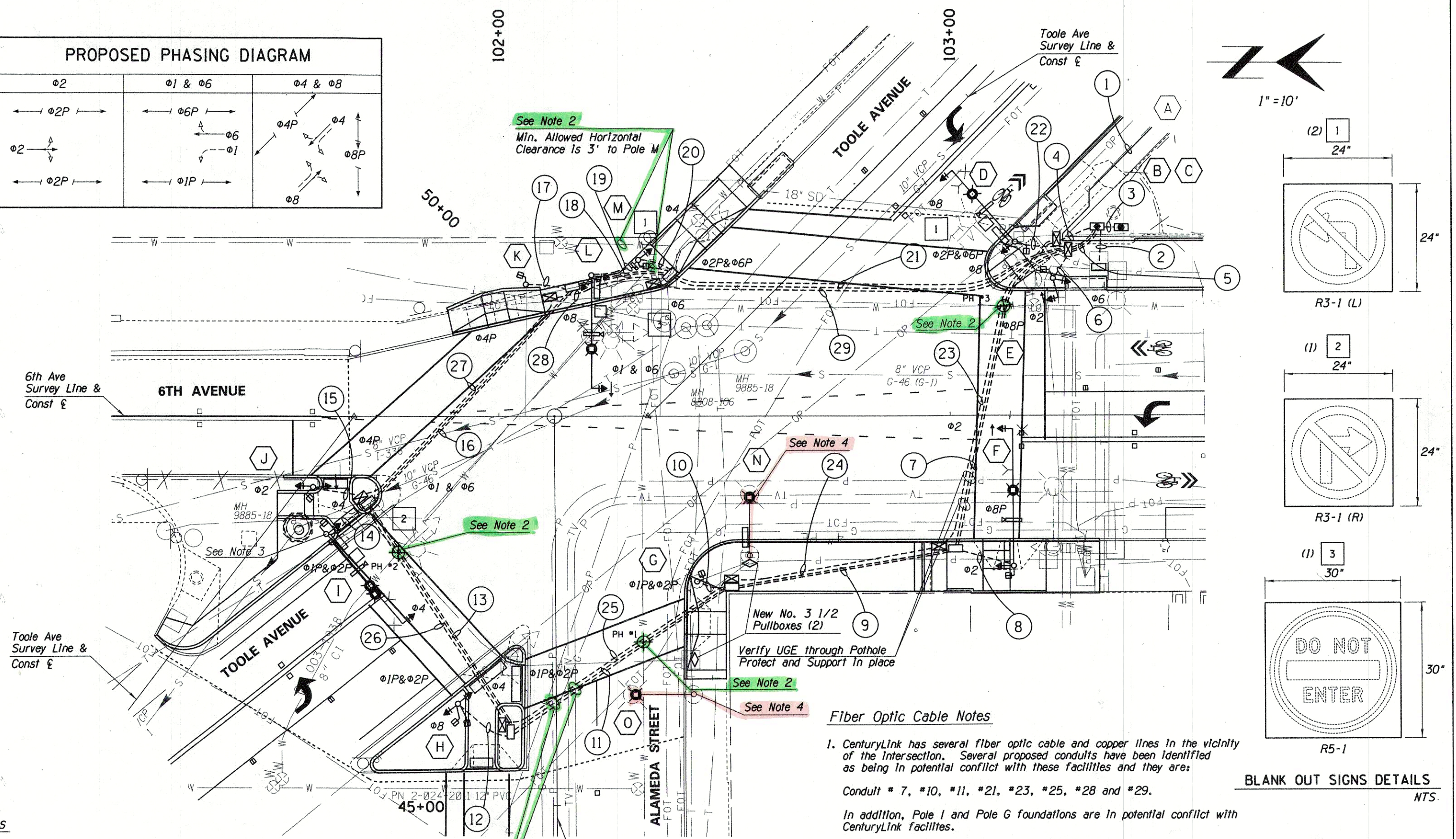
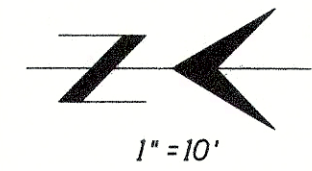
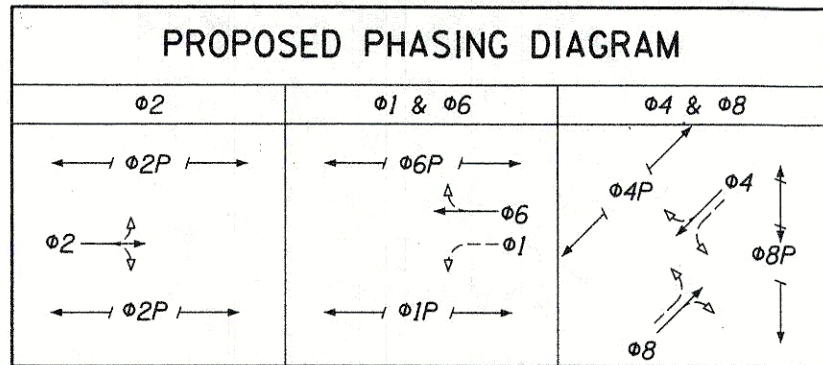
REF. COT Field Book No. N/A
 SCALE: H: 1"=10'
 PLAN NO. 1-2012-009

26 of 37

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

PROFESSIONAL ENGINEER
 98450
 JOSEPH ALBERT VASKOVIC
 STATE LICENSED
 ARIZONA U.S.A.
 EXPIRES 09/30/2016



- ### Notes
- All equipment locations shall be confirmed by the engineer in the field prior to construction.
 - Pothole to verify clearance to waterline prior to placing conduit. Clearance requirement is 1' vertical separation for conduit, 5' horizontal offset from existing 6" CI and 8" CI waterlines to new traffic signal poles, unless otherwise noted on the plans.
 - Contractor shall use caution in installing traffic signal foundation for pole with regards to the existing sanitary sewer line. An approved Flow Management Plan shall be in place prior to construction. See Special Provisions.
 - Existing light poles and mast arms shall be painted "Scott Avenue Green". See Special Provisions.

Fiber Optic Cable Notes

- CenturyLink has several fiber optic cable and copper lines in the vicinity of the intersection. Several proposed conduits have been identified as being in potential conflict with these facilities and they are:
 Conduit # 7, #10, #11, #21, #23, #25, #28 and #29.
 In addition, Pole I and Pole G foundations are in potential conflict with CenturyLink facilities.
 Contractor shall locate, support, and protect CenturyLink facilities during the installation of the conduit and traffic signal pole foundations.

See Note 2
 Min. Allowed Horizontal Clearance is 3' to Pole M

See Note 4

See Note 2

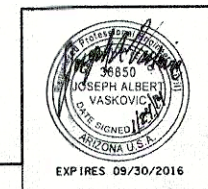
See Note 4

New No. 3 1/2 Pullboxes (2)
 Verify UGE through Pothole
 Protect and Support In place

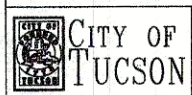
Verify UGE through Pothole
 Protect and Support In place



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 Tucson, Arizona 85701
 (520) 982-6424

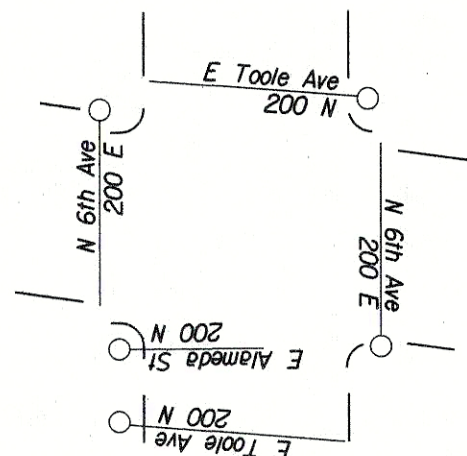


| | | |
|---|----------------------|--|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 27 OF 37 |
| DRAWN BY: CPG DESIGNED BY: K Hubbard CHECKED BY: J Koesters | 2013 2013 2013 | REF. COT Field Book No. N/A SCALE: H: 1"=10' PLAN NO. I-2012-009 |

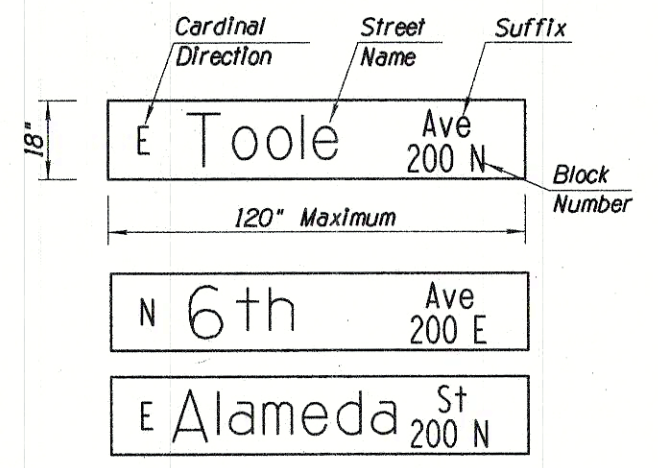


CABINET AND POLE SCHEDULE

| 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 | Mount Flood Pre-Empt Transmitter In Controller Cabinet. Mount Transmitter Antenna on Pole (D). | STA 103+32.70, 41.7' Lt 6TH AVE E | | | | |
| (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 E | | | | |
| POLE | | MAST ARMS | | SIGNALS | | PED. P.B. | FOUNDATION | REMARKS | LOCATION | |
| NUMBER | TYPE | SIGNAL | LUMINAIRE | 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 | 3500 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). Install Flood Pre-Empt Sign 1. | (D) Sta 50+84.91, 29.88'Rt Toole Ave E |
| (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 | Q Signal Ass'y w/ Flashing Yellow arrow | (E) Sta 103+22.84, 30.28'Lt 6th Ave E (J) Sta 101+58.79, 15.78'Rt 6th Ave E |
| (H) | | "A" T 401 10' | — | — | (1)TYPE VI T 904 TYPE XI T 909 | (2) F T 801 (2)"M/H" T 804 | — | — | — | (H) Sta 33+81.7, 57.0'Rt Toole Ave E |
| (M) | | "A" T 401 10' | — | — | (1)TYPE VI T 904 TYPE XI T 909 | (2) F* T 801 "M/H" T 804 | — | T 401 | Install Flood Pre-Empt. Sign 1 on pole (M). | (M) Sta 50+22.80, 23.46'Lt Toole Ave E |
| (F) | | "O" T 412 | 30' | 15' | (1)TYPE II T 901 (1)TYPE V T 903 TYPE XI T 909 | (1) Q T 801 (1) F T 801 "M/H" T 804 | — | T 412 | 3500 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. Q Signal Assy w/Flashing Yellow arrow. | (F) Sta 103+14.03, 33.60'Rt 6th Ave E |
| (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 E (K) Sta 102+06.03, 29.10'Lt 6th Ave E |
| (I) | | "O" 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 | 3500 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 Flood Pre-Empt. Sign 2. | (I) Sta 33+93.84, 11.04'Rt Toole Ave E |
| (L) | | "O" T 412 | 25' | 15' | (1)TYPE II T 901 (1)TYPE VIII T 906 | (1) Q T 801 (2) F T 801 | — | T 412 | 3500 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. Q Signal Ass'y w/Flashing Yellow arrow. | (L) Sta 102+20.56, 31.19'Lt 6th Ave E |
| (N)(O) | | EXIST | — | EXIST | — | — | — | — | 3500 K, Arm Mounted LED 'Hallbrook Ext-GlasWerks II' style. (Special Provisions). Mount on Exist Mast Arm | — |



STREET NAME SIGN LEGEND
NTS



STREET NAME SIGN DETAILS
NTS

STREET NAME SIGN NOTES

- Street name signs shall be 18" deep aluminum panels, 0.125 gauge.
 - Lettering shall be Initial uppercase (12") followed by lower case letters (10"). Secondary letters (e.g. cardinal direction, suffix) shall be 6".
 - Street name signs shall use diamond grade sheeting.
 - Mount street name signs flagpole style. See Special Provision for flagpole style mount details.
- EQUIPMENT NOTES**
- 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.
 - Install street name sign on poles D, F, I, and L with approved new mounting hardware. See Special Provisions.
 - All cables from device or termination to controller shall be unspliced.
 - Separate power from signal cables in conduit runs.
 - Mast arms for all poles shall be furnished with welded tenons only.
 - The video detection system shall be furnished by the COT and installed by the contractor. Provide a dedicated power circuit for video system.
 - Install video detection system on poles D, F, I, and L. Install cameras at luminaire.
 - For WI-FI Installation contact Francisco Leyva at 791-4259 for details.
 - Sign panels shall be straight and true with no bowing prior to and after applying the sheeting material.
 - All mast arm signals shall be Aluminum.
 - Install Flood Control Pre-Empt Sign 1 on pole (M) Instead of Type F Assembly. Use Type VI Mounting.
 - Q Signal Ass'y shall have flashing Yellow arrows instead of solid Green arrows.
 - Install Flood Pre-Empt. Blank-Out signs on Mast arms and Signal poles as shown. Blank-Out sign shall be LED.
 - Contractor shall furnish and install Blank-Out Signs, Cables, Transmitter, and Antenna for Item 7370300 Flood Pre-Empt. (4-sign).
 - Flood Pre-Empt transmitter to send signal to companion receiver of flood Pre-Empt. on 6th Ave, South of 7th st. See Traffic Signal plans 2 of 12.
 - Poles (N) and (O) shall be painted "Scott Avenue Greet" under Item 731700 Paint Light Pole/Sign Pole.

* See Note 11
** Street Name Sign on Pole N

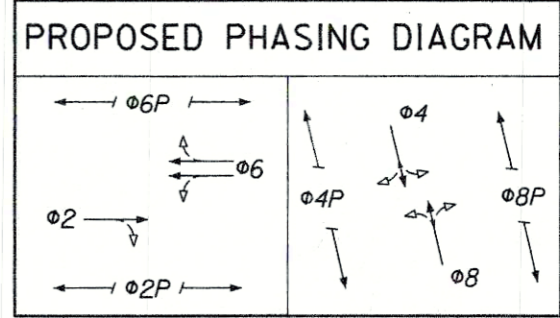
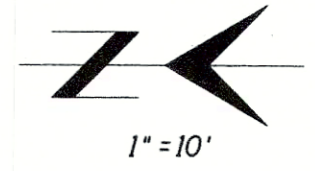
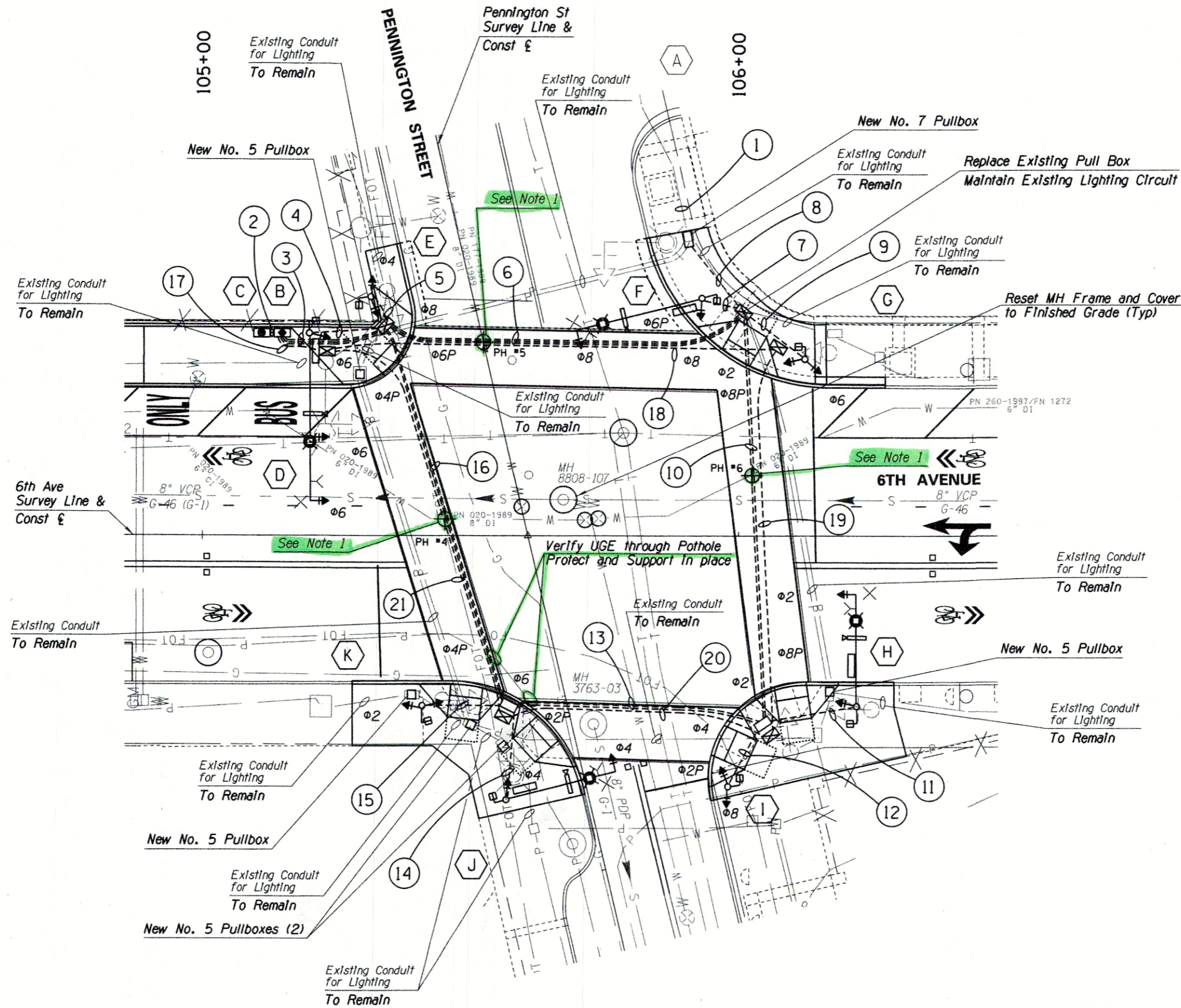


**6TH AVE /TOOLE AVE
TRAFFIC SIGNAL PLANS-POLE SCHEDULE 4 OF 12**

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

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

| | | | | | |
|-----|------|----------|----|-------|-------|
| NO. | DATE | REVISION | BY | CHKD. | APPR. |
| | | | | | |



Notes

1. Pothole to verify clearance to waterline prior to placing conduit. Clearance requirement is 1' vertical separation for conduit, 5' horizontal 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.

6TH AVE / PENNINGTON ST W5 OF W5
TRAFFIC SIGNAL PLANS 6 OF 12

| | | |
|--|------|--|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 30 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| DRWN BY: CPG | 2013 | REF. DOT Field Book No. SCALE: H: 1"=10' |
| DSGN BY: K Hubbard | 2013 | N/A |
| CHKD BY: J Koesters | 2013 | PLAN NO. I-2012-009 |

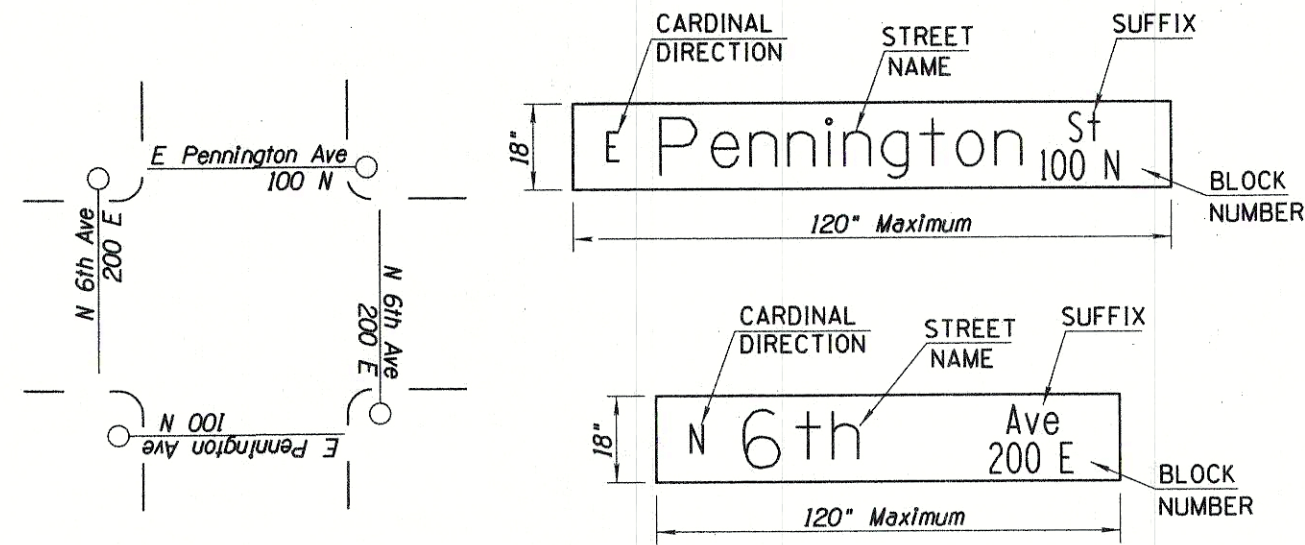


PARSONS BRINCKERHOFF
 177 N Church Suite 610
 Tucson, Arizona 85701
 (520) 882-6424



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 | LUMINAIRE | MOUNTING | ASS'Y | | | | | |
| (D) | | "O" 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 | 3500 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 105+98.0, 46.8' 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 | 3500 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 |
| | | | | | | | | | | |
| | | | | | | | | | | |



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.

NOTE: Stationing Based on 6th Avenue E.



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(520-882-6424)



**6TH AVE / PENNINGTON ST
TRAFFIC SIGNAL PLANS - POLE SCHEDULE 7 OF 12**

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

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

31 OF 37

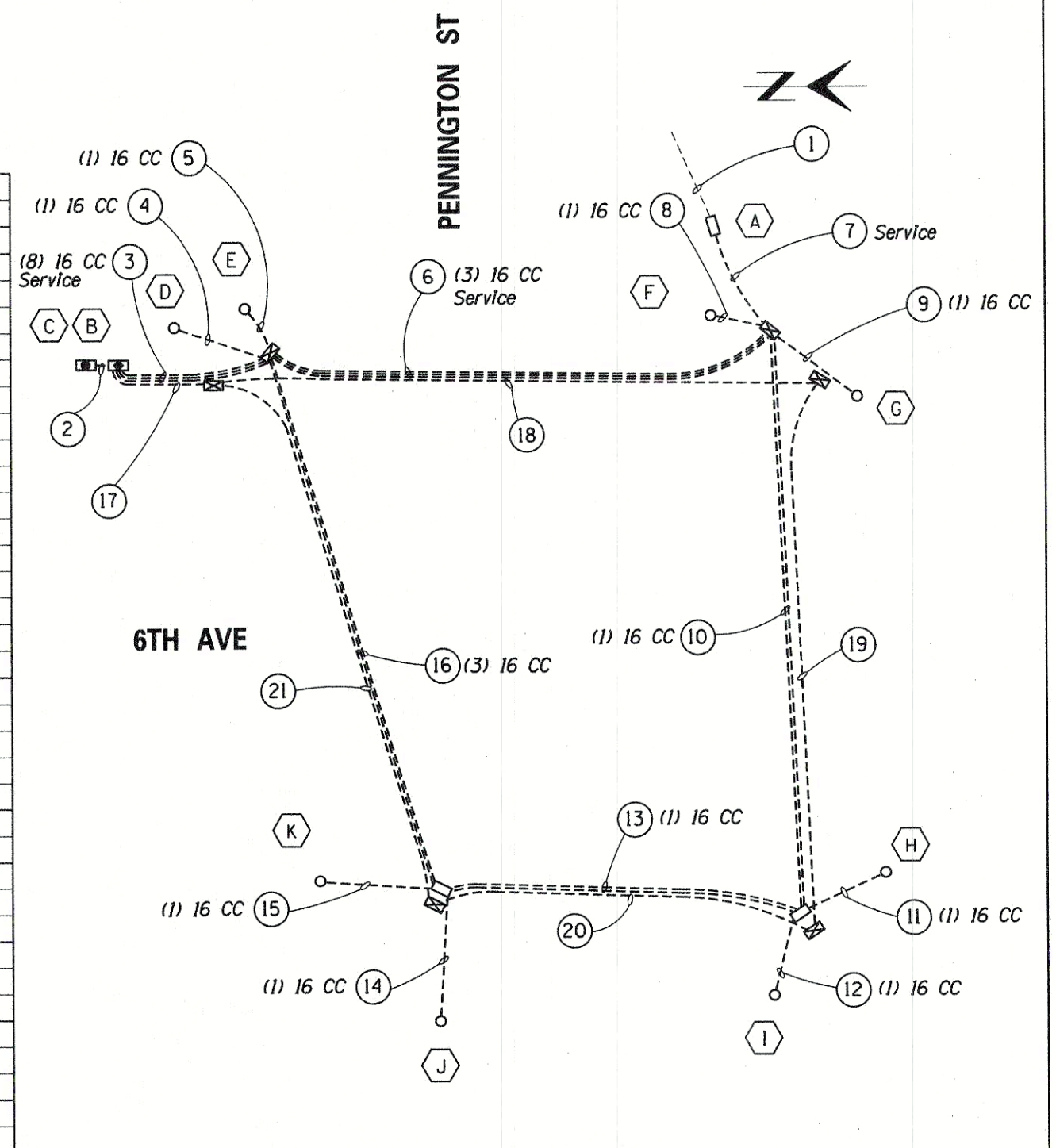
CONDUIT AND CONDUCTOR SCHEDULE

| | | CONDUIT RUN NUMBERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-----------------------------------|------------------------|---|-----|---|---|-------|---|---|---|-------|----|----|-------|----|----|-------|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | | | |
| | | CONDUIT SIZE IN INCHES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 | 2 | 3/4 | 3 | 2 | 2 1/4 | 3 | 3 | 2 | 2 1/4 | 3 | 2 | 2 1/4 | 3 | 2 | 2 1/4 | 3 | 2 | 2 1/4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | |
| AMG | CIRCUIT PHASE | NUMBER OF WIRES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *14) 16 CONDUCTOR ISMA CABLE | BLACK - PED SIGNAL WALK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WHITE - SIGNAL COMMON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RED - A Ø SIGNAL RED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GREEN - A Ø SIGNAL GREEN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ORANGE - PED PUSH BUTTON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BLUE - A Ø SIGNAL YELLOW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WHITE w/B - LOW VOLTAGE COMMON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RED w/B - A Ø AUXILIARY RED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GREEN w/B - A Ø AUXILIARY GREEN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ORANGE w/B - SPARE PED P.B. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BLUE w/B - A Ø AUXILIARY YELLOW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BLACK w/W - PED SIGNAL DON'T WALK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RED w/W - SPARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GREEN w/W - B Ø LEFT TURN GREEN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLUE w/W - A Ø LEFT TURN YELLOW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLACK w/R - SPARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *10 XHHW/THW | BLACK-STREET LIGHT & SIGN (HOT) | | 1 | 1 | 1 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RED-STREET LIGHT & SIGN (HOT) | | 1 | 1 | | | | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WHITE-COMMON | | 1 | 1 | 1 | | | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRE-EMPT BEACON | N/S | | 2 | 2 | 1 | | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRE-EMPT BEACON | E/W | | 2 | 2 | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | POWER (HOT) | | 2 | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| POWER (NEUTRAL) | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 COND ISMA CABLE | BLACK-TO COMMON | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WHITE-COMMON | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RED-FROM PHOTOCELL | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOMAR M913 | PRE-EMPT SENSOR | N/S | | 1 | 1 | | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRE-EMPT SENSOR | E/W | | 1 | 1 | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VIDEO CAMERA | TERRA 3 CONDUCTOR | N/S | | 1 | 1 | | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | E/W | | 1 | 1 | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *8 BARE | EQUIPMENT GROUND | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |

* Install 2500lb Traceable Mule Tape in Conduit.

Wiring Notes

1. Separate power from signal cables as much as possible.
2. Video power from hand hole to cabinet shall be a Terra 3 Conductor, power video from source not connected to photocell. Contractor to contact COT maintenance, Paul Burton (791-3191) prior to purchase or installation of video conductors. Conductors may differ depending on system supplied by COT.



CABLE DIAGRAM
CC = CONDUCTOR CABLE

**6TH AVE / PENNINGTON ST
TRAFFIC SIGNAL PLANS - CONDUCTOR SCHEDULE 8 OF 12**

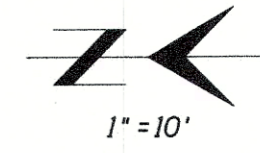
| | | | |
|----------------|---|--|--|
| | | DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | 32 OF 37 |
| CITY OF TUCSON | DRWN. BY: CPG DSGN. BY: K Hubbard CHD. BY: J Koesters | 2013 2013 2013 | REF. COT Field Book No. N/A SCALE: NTS PLAN NO. I-2012-009 |

1-800-782-5348
 Blue Stakes Center CALL COLLECT

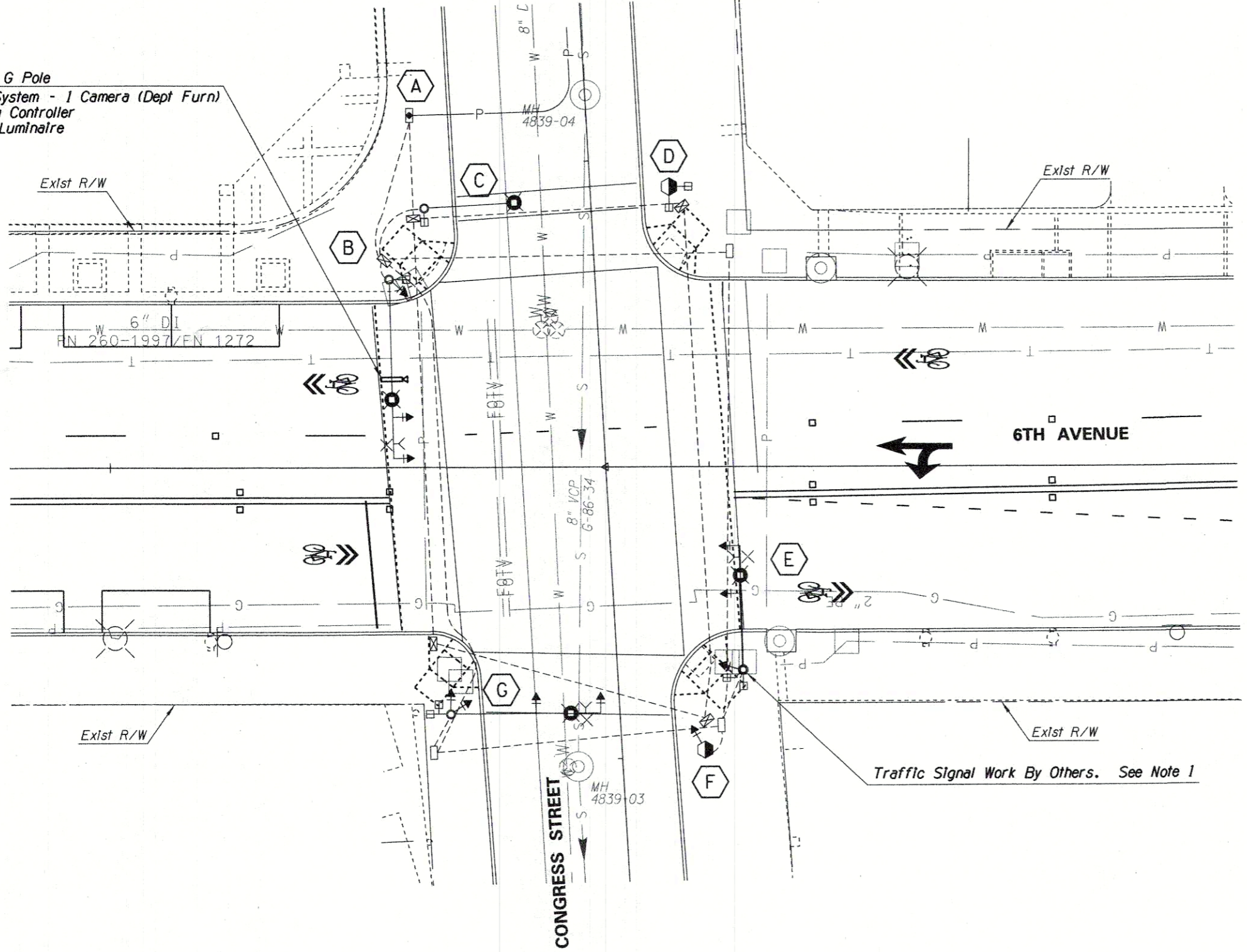
177 N Church Suite 610
 Tucson, Arizona 85701
 (520-882-6424)

110+00

111+00



Modern Street Car Type G Pole
Install Video Detection System - 1 Camera (Dept Furn)
Install Cable to Existing Controller
Mount Video Camera at Luminaire



Notes

- 1. All traffic signal work except Video Detection System at Pole B is By Others.

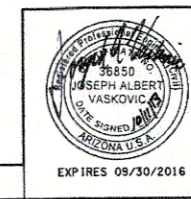
6TH AVE / CONGRESS ST
TRAFFIC SIGNAL PLANS 9 OF 12

DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION 33
DOWNTOWN INTERMODAL CENTER OF
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS 37


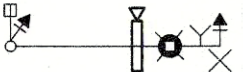


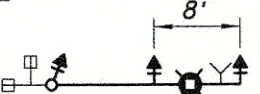


| | | | |
|--------------------|------|-------------------------|------------------|
| DRWN BY CPG | 2013 | REF. COT Field Book No. | SCALE: H: 1"=10' |
| DSGN BY K Hubbard | 2013 | N/A | |
| CHKD BY J Koesters | 2013 | PLAN NO. I-2012-009 | |




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



CABINET AND POLE SCHEDULE

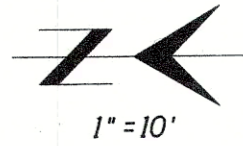
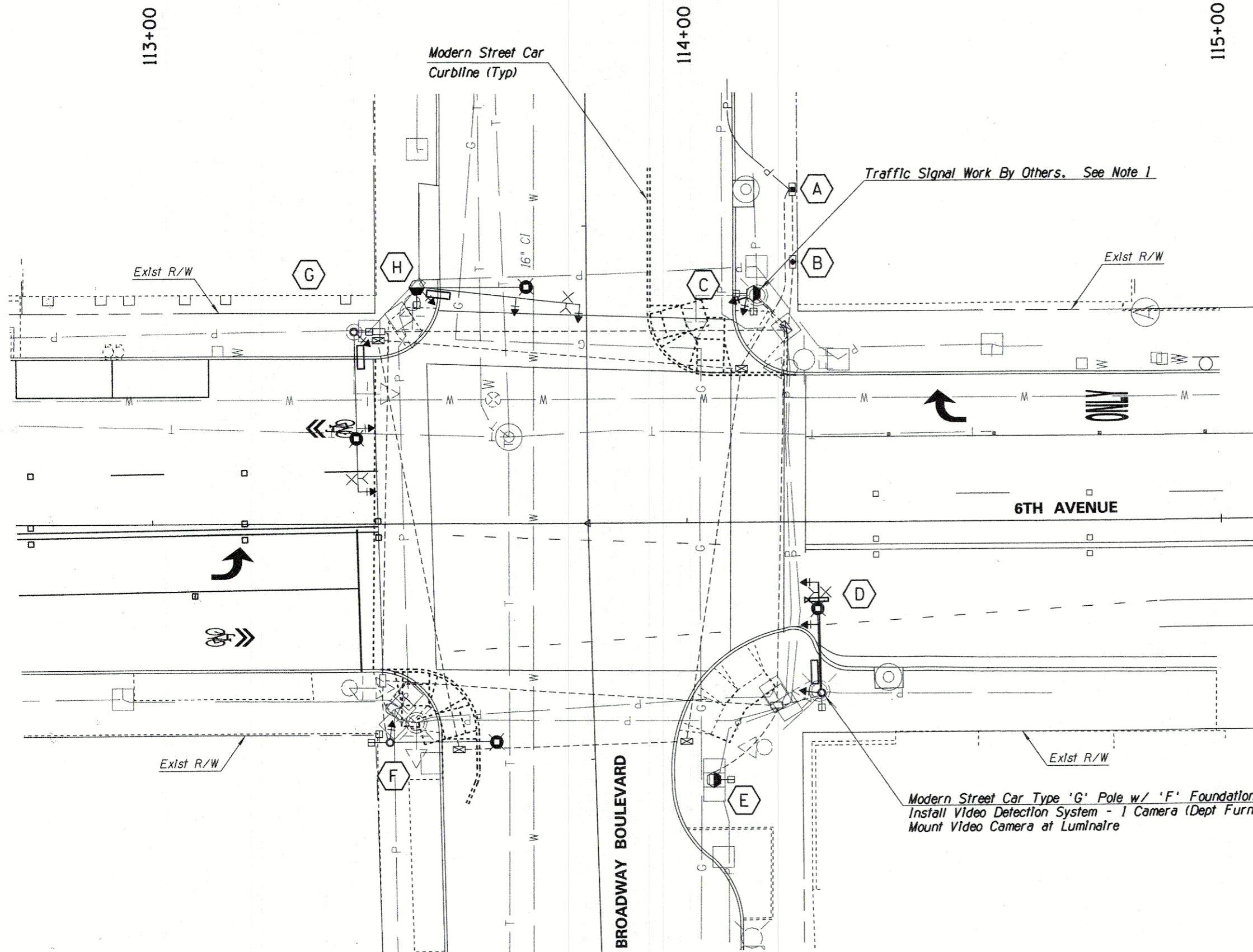
| TRAFFIC SIGNAL CONTROL | | | | | REMARKS | LOCATION | | | | |
|------------------------|---|-------------------------------|-----------------|------------|----------|-----------|------------|---|----------|---|
| CABINET | TYPE | CONTROLLER | AUX. CONTROLLER | FOUNDATION | | | | | | |
| A |  | — | NEMA TS-2 | — | EXISTING | — | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| POLE | | MAST ARMS | | SIGNALS | | PED. P.B. | FOUNDATION | REMARKS | LOCATION | |
| NUMBER | TYPE | SIGNAL | LUMINAIRE | MOUNTING | ASS'Y | | | | | |
| B |  | — | — | — | — | — | — | EXISTING POLE MOUNT VIDEO CAMERA AT LUMINAIRE | — | |
| C |  | — | — | — | — | — | — | EXISTING TO REMAIN | — | |
| D |  | — | — | — | — | — | — | EXISTING TO REMAIN | — | |
| E |  | TRAFFIC SIGNAL WORK BY OTHERS | | | | | — | — | | — |
| F |  | — | — | — | — | — | — | EXISTING TO REMAIN | — | |
| G |  | — | — | — | — | — | — | EXISTING TO REMAIN | — | |

**6TH AVE / CONGRESS ST
TRAFFIC SIGNAL PLANS - POLE SCHEDULE 10 OF 12**

| | | |
|---|---|----------------------|
| DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 34 |
| DOWNTOWN INTERMODAL CENTER | | OF |
| PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
|  | DRWN BY: CPG DSGN BY: K. Hubbard CHKD BY: J. Koesters | 2013 2013 2013 |
| REF. COT Field Book No. _____ SCALE: NTS PLAN NO. I-2012-009 | | |

Two working days before you dig
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Notes

- 1. All traffic signal work except Video Detection System at Pole **D** Is By Others.

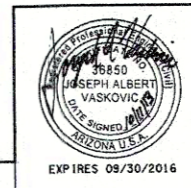
**6TH AVE /BROADWAY BLVD
TRAFFIC SIGNAL PLANS 11 OF 12**

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




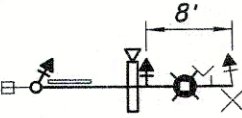




| | | | |
|---------------------|------|-------------------------|------------------|
| DRWN. BY CPG | 2013 | REF. COT Field Book No. | SCALE: H: 1"=10' |
| ISSN. BY K Hubbard | 2013 | N/A | |
| CHKD. BY J Koesters | 2013 | PLAN NO. | I-2012-009 |

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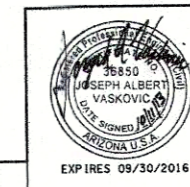


CABINET AND POLE SCHEDULE

| 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 |  | | | | | | | TRAFFIC SIGNAL WORK BY OTHERS | |
| D |  | | | | | | | TRAFFIC SIGNAL WORK BY OTHERS | |
| E |  | — | — | — | — | — | — | EXISTING TO REMAIN | — |
| F |  | — | — | — | — | — | — | EXISTING TO REMAIN | — |
| G |  | — | — | — | — | — | — | EXISTING TO REMAIN | — |
| H |  | — | — | — | — | — | — | EXISTING TO REMAIN | — |

**6TH AVE /BROADWAY BLVD
TRAFFIC SIGNAL PLANS - POLE SCHEDULE 12 OF 12**

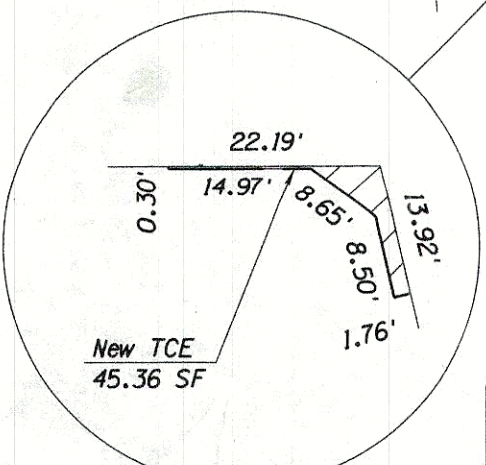
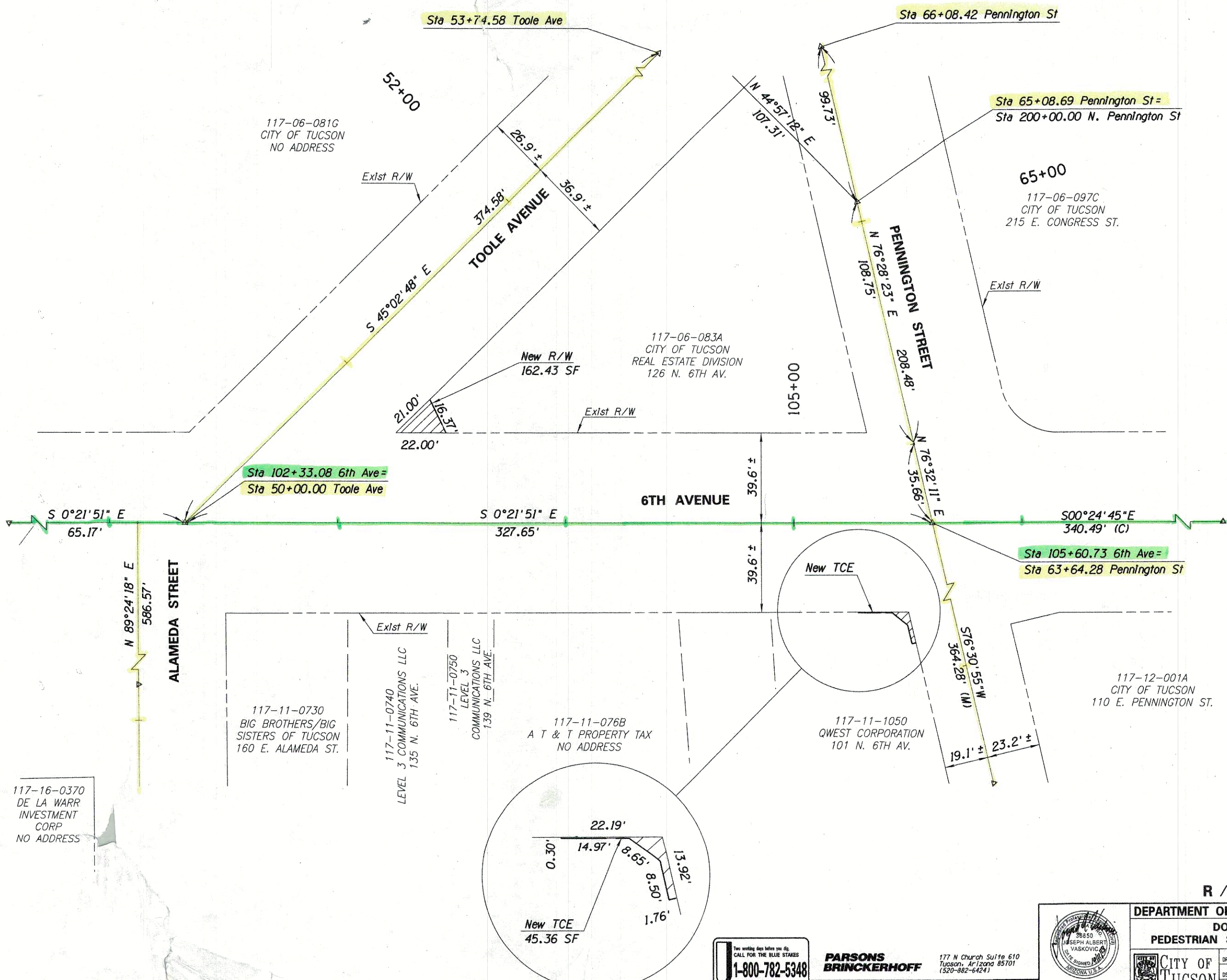
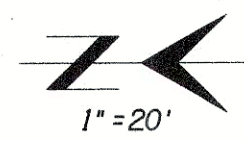
DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION
DOWNTOWN INTERMODAL CENTER
PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS



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| | | | |
|--------------------|------|-------------------------|------------|
| DRWN BY CPG | 2013 | REF. COT Field Book No. | SCALE: NTS |
| DSGN BY K Hubbard | 2013 | N/A | |
| CHKD BY J Koesters | 2013 | PLAN NO. 1-2012-009 | |



LEGEND
 Area of New R/W or TCE

R / W & TCE DETAIL SHEET 1 OF 1

| | | | |
|--|---|----------------------|--|
| | DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION | | 37 |
| | DOWNTOWN INTERMODAL CENTER PEDESTRIAN SAFETY AND BUS ACCESS IMPROVEMENTS | | 37 |
| | DRWN BY: CPG DESGN BY: J Vaskovic CHD BY: J Koesters | 2013 2013 2013 | REF. COT Field Book No. _____ SCALE: H=1"=20' PLAN NO. I-2012-009 |

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