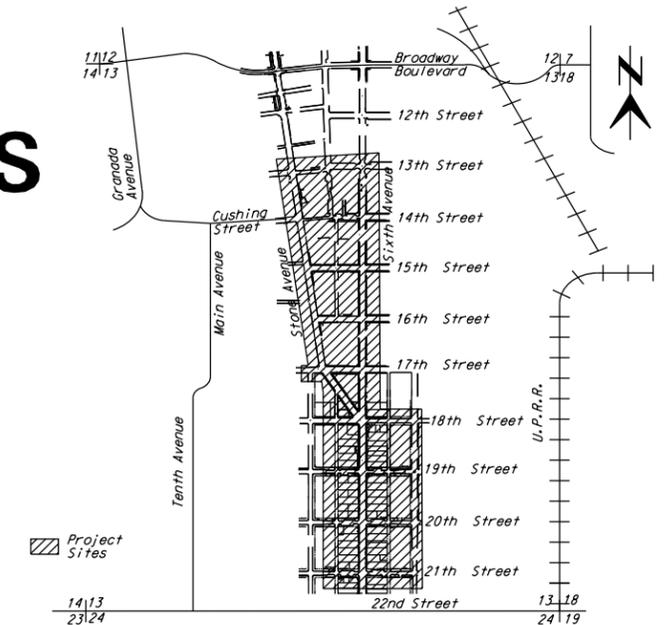


FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS

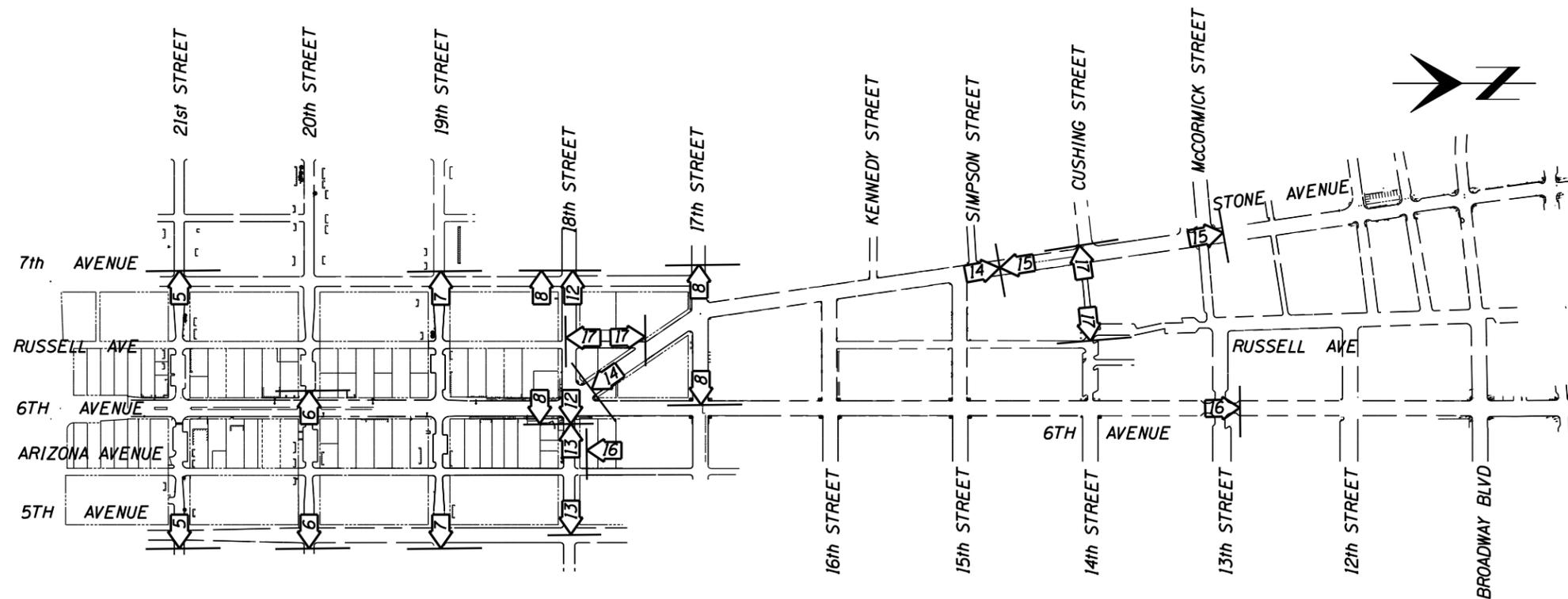
JOB NO. S355
PLAN NO. F-2008-003

17th Street - 7th Ave to 6th Ave
18th Street - 7th Ave to 5th Ave
19th Street - 7th Ave to 5th Ave
20th Street - 6th Ave to 5th Ave
21st Street - 7th Ave to 5th Ave



VICINITY MAP
3" = 1 Mile

Sec 13, T14S, R13E
G&SRM, Pima County, Arizona
Latitude 32°12'43"N, Longitude 110°58'04"W



LOCATION MAP
N.T.S.

LEGEND	
Exist	New
⊗ ^W	Water Valve
⊙	Fire Hydrant
⊕	Sign
⊗ ^W	Water Meter
⊙	Sewer Manhole
⊙	Street Light
⊙	Street Light, Armory Park Style
P.P.	TEP Power Pole
SM ⊙	Survey Monument
⊗	Tree
⊗	Fence
←	Guy Anchor
⊙	BCSM (Existing)
⊙	Sheet Number

SHEET INDEX	
No.	Description
1	Cover Sheet
2	General Notes
3	Water System Notes
4	Detail Sheets
5-9	Sidewalk Plan Sheets
10-18	Street Light Modifications

FOR ACCEPTANCE CONDITIONS, SEE WATER SYSTEM MODIFICATION NOTES, NOTE 1, SHEET 3 OF 17.

CITY OF TUCSON WATER DEPARTMENT DATE

COVER SHEET

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		1
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF 18
CITY OF TUCSON	DRWN. BY CPG	2013	REF. SCALE: _____
	DSGN. BY K Hubbard	2013	PLAN NO. F-2008-003
	CHKD. BY J Vaskovic	2013	



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

NO.	DATE	REVISION	BY	CHKD.	APPR.

GENERAL NOTES

1. **Horizontal Datum:**
25th Street to 10th Street
The Basis of Bearing for this survey is N 00° 00' 12" W on the Sixth Ave. Monument Line between 22nd Street and 21st Street as shown on the City of Tucson Department of Transportation Plan No. R-94-02.
2. All construction shall conform to the 2003 Editions of the Pima County/City of Tucson Standard Specifications and Details for Public Improvements, except as modified on the plans.
3. The Contractor shall verify existence of all utilities by calling Blue Stake at 1-800-782-5348, 48 hours prior to construction. The plan locations of utilities being shown are approximate.
4. The Contractor shall maintain access to all driveways and mail boxes during construction and not restrict U.S. Postal deliveries, solid waste collection and/or access to adjacent properties, except as approved by the Engineer.
5. Changes in location or length of depressed curbs may be made by the Engineer.
6. Immediately report any release of sewage, and/or any damage to, or the dropping of debris into, the public sanitary sewage conveyance system to either PCRWRD Field Engineering (740-2651) or PCRWRD Field Operations (443-6500). On weekends, holidays, or between 5:00 PM and 8:00 AM, immediately call Pima County Sheriff's Communication Center at 295-4595 or 741-4900 and request a PCRWRD representative to be dispatched to the site. Take immediate action to prevent or contain the sanitary sewage overflow (SSO) from the sewer system and disinfect the sewage and area with at least 5 gallons of 12.5% liquid sodium hypochloride. The Contractor shall be responsible for all costs to repair the system, for all expense to mitigate the release and to disinfect the release areas, and for 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.
7. 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 (PC/COT SDWWM 404), at no Expense to the Property Owner or the Pima County Regional Wastewater Reclamation Department.
8. New sidewalk to meet all existing ADA standards.
9. Unless otherwise noted, new sidewalks are to match existing grades at light pole foundations, pull boxes, water meter boxes and manholes.
10. Sidewalk meandering to be kept to a minimum. If sidewalk cannot be meandered to avoid an obstruction, the minimum clearance from either edge of the sidewalk to an obstruction shall not be less than 3'.
11. Contractor shall take precautions not to damage water facilities that are disclosed to be in the area of construction. The contractor shall be responsible for any damage.
12. Coordinate removals and reinstallation of signs and posts with Traffic Engineering per PC/COT Signing Manual.
13. It is the contractor's responsibility to maintain reasonable access to the public transit system. Access must comply with the Americans with Disabilities Act. The contractor is responsible for establishing temporary bus stops if permanent bus stop amenities and signage is removed or access prohibited due to construction activity. Contractor shall contact Bea Paulus, Sun Tran, at 206-8826, for any concerns regarding bus stops.
14. Southwest Gas requires a stand-by when the contractor is working within 10 feet of high pressure gas facilities or facilities with a pipe diameter of 6 inches or greater. The contractor must call 794-6021 to schedule the stand-by a minimum of 24 hours in advance.
15. All water systems modifications construction work shall conform to the following standards and special provisions:
 - A. The Pima County/City of Tucson Standard Specification for public Improvements, 2003 edition.
 - B. The water system modifications special provisions for this project.

17. Contact Traffic Engineering, Diahn Swartz, 791-4259 within 48 hours advance notice for assistance's relocating traffic signs.
18. The contractor shall call COT DOT Landscape Architect, Gary Wittwer at 837-6618 prior to removal of landscape plants or irrigation materials, and prior to trimming of any tree branches or tree roots

Curb Access Ramp Notes

1. All curb access ramps shall conform to PC/COT Std Dtl 207 unless otherwise specified in the plans.
2. All stationing for the curb access ramps is based upon the point of intersection between the face of the curb and the centerline of the ramp.
3. All new curb access ramps shall include truncated domes.

Curb Access Ramp Descriptions

 Type 2 Ramps PC/COT Std Dtl 207.

 Type 3 Ramps PC/COT Std Dtl 207.

Curb Access Ramp Locations

	Sheet Location	Station & Offset	Ramp Type
1	5	5+46.2, 22.9' Lt	R-2
2	5	7+48.9, 26.5' Lt	R-3
3	5	12+51.8, 31.3' Lt	R-3
4	5	14+57.3, 31.3' Lt	R-3
5	6	12+51.2, 27.9' Rt	R-3
6	6	14+47.6, 27.9' Rt	R-3
7	7	5+42.9, 30.5' Lt	R-3
8	7	7+47.7, 25.0' Lt	R-3
9	7	12+52.1, 29.5' Rt	R-3
10	7	14+47.8, 29.5' Rt	R-3
11	8	58+44.0, 38.6' Rt	R-3
12	8	9+78.6, 35.4' Rt	R-2
13	8	10+17.5, 35.2' Rt	R-3
14	8	11+02.4, 26.0' Rt	R-3
15	9	65+26.1, 27.60' Lt	R-3
16	9	65+50.8, 24.70' Lt	R-3
TOTAL R-2			2
TOTAL R-3			14
TOTAL RAMPS			16

Driveway Notes

1. All driveways shall conform to Detail A of these plans or to PC/COT Std Dtl 206.
2. All stationing and widths given for the driveways are approximate and are for general location and quantity purposes only.
3. New driveways should be constructed within the existing depressed curb areas except where noted on the plans.

Driveway Locations

	Sheet Number	Approx Station	Location From &	Approx Width (Feet)	Ex'ist Driveway Material
1	5	6+96.2	15.2' Lt	11.5'	Dirt
2	5	7+35.0	13.4' Lt	11.5'	Dirt
3	5	13+48.3	18.2' Lt	12'	Dirt
4	6	12+93.9	14.7' Rt	13.5'	Dirt
5	6	13+37.8	17.6' Rt	11'	Dirt
6	7	13+74.5	19.6' Rt	15.6'	Dirt
7	8	59+30.0	30.0' Rt	17'	*
8	8	61+18.3	30.8' Rt	24'	Asphalt
9	9	64+86.1	16.0' Lt	22'	Dirt
TOTAL WIDTH OF DRIVEWAYS				139'	

* Broken Concrete & Dirt

Truncated Dome Location

	Sheet Number	Approx Station	Location From &
1	8	60+49.2	40.1' Rt
2	8	60+77.4	40.9' Rt

GENERAL NOTES

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		2
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF 18
	DRWN. BY CPG	2013	REF. _____ SCALE: _____
	DSGN. BY K Hubbard	2013	PLAN NO. F-2008-003
	CHKD. BY J Vaskovic	2013	



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(520-882-6424)

NO.	DATE	REVISION	BY	CHKD.	APPR.

WATER SYSTEM MODIFICATION NOTES

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 3 YEARS AFTER THE DATE OF THE SIGNATURE.
 - C. THE WARRANTEE AND GUARANTEE DURATION FOR ALL WATER WORK ON THIS PROJECT SHALL BE TWO (2) YEARS COMMENCING ON THE DATE OF FINAL ACCEPTANCE OF THE WATER WORK BY THE CITY OF TUCSON WATER DEPARTMENT.
2. **CURRENT STANDARDS:**
 - 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 PREFER TO THE CITY OF TUCSON WATER DEPARTMENT PLAN NO. 5-023-2008.
 - 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:**
 - 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. **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.
6. **WATER METERS AND METER BOXES:**
 - 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 AND INSTALLATION: DURING THIS OPERATION METERS SHALL BE TAGGED WITH THE CORRECT ADDRESS TO ENSURE THEIR REINSTALLATION AT THE SAME LOCATION.
 - B. PROTECTIONS OF METERS: AT ALL TIMES THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID ANY DAMAGE TO THE METERS. THE CONTRACTOR SHALL PROVIDE FOR THEIR SAFE STORAGE AND THE PROPER EQUIPMENT FOR THE HANDLING.
 - C. ACCESS TO THE METERS: THE CONTRACTORS 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.
7. **MAINTAIN SERVICE TO CUSTOMERS:**
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICE TO ALL WATER CUSTOMERS DURING CONSTRUCTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SERVICES WILL BE EFFECTED BY THIS PROJECT.

IT MAY BE NECESSARY TO ACCOMPLISH TIE-OVERS, RE-CONNECTIONS, ETC.. WHILE BUSINESS CUSTOMERS ARE CLOSED.

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.

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.

8. **SPECIAL USE WATER PERMITS:**
 - 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 (60.66) 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.
9. **NEW MATERIAL:**
 - 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.
10. **MARKING TAPE:**
 - IF ANY EXISTING DETECTABLE MARKING TAPE IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE NEW TAPE . THERE SHALL BE NO ADDITIONAL CHARGE FOR THIS REINSTALLATION.
11. **TRACER WIRE:**
 - THIS PROJECT WILL HAVE TRACER WIRE INSTALLED.
12. **EASEMENTS AND THEIR LOCATIONS ARE PRESENTED BASED ON LIMITED RECORD DOCUMENT.**
 - CONTRACTOR SHALL COORDINATE WITH UTILITIES REGARDING WORK IN THE VICINITY OF THEIR LINES.
13. **THE MINIMUM HORIZONTAL SEPARATION IS FIVE (5) FEET (FROM) OUTSIDE WATER LINE TO OUTSIDE ELECTRICAL POLE/CONDUIT. THE MINIMUM VERTICAL SEPARATION IS ONE (1) FOOT (FROM OUTSIDE WATER LINE TO OUTSIDE OF ELECTRICAL CONDUIT).**

WATER SYSTEM MODIFICATION LEGEND

EXISTING		NEW
	WATER MAIN	
	VALVE	
	FIRE HYDRANT	
	SERVICE LINE & METER BOX	
	CUT & PLUG	
	BENDS, HORIZ. & VERT.	
	METER RELOCATION SERVICE LINE ADJUSTMENT	
	AIR RELEASE VALVE W/SIZE	
	CORROSION TEST STATION	

WATER SYSTEM NOTES

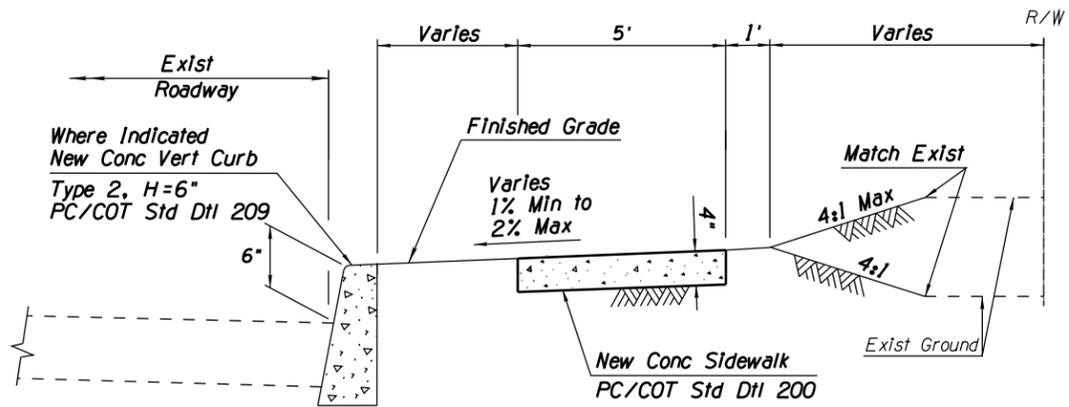
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		3
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF 18
CITY OF TUCSON	DRWN. BY CPG	2013	REF. SCALE: _____
	DSGN. BY K Hubbard	2013	PLAN NO. F-2008-003
	CHKD. BY J Vaskovic	2013	



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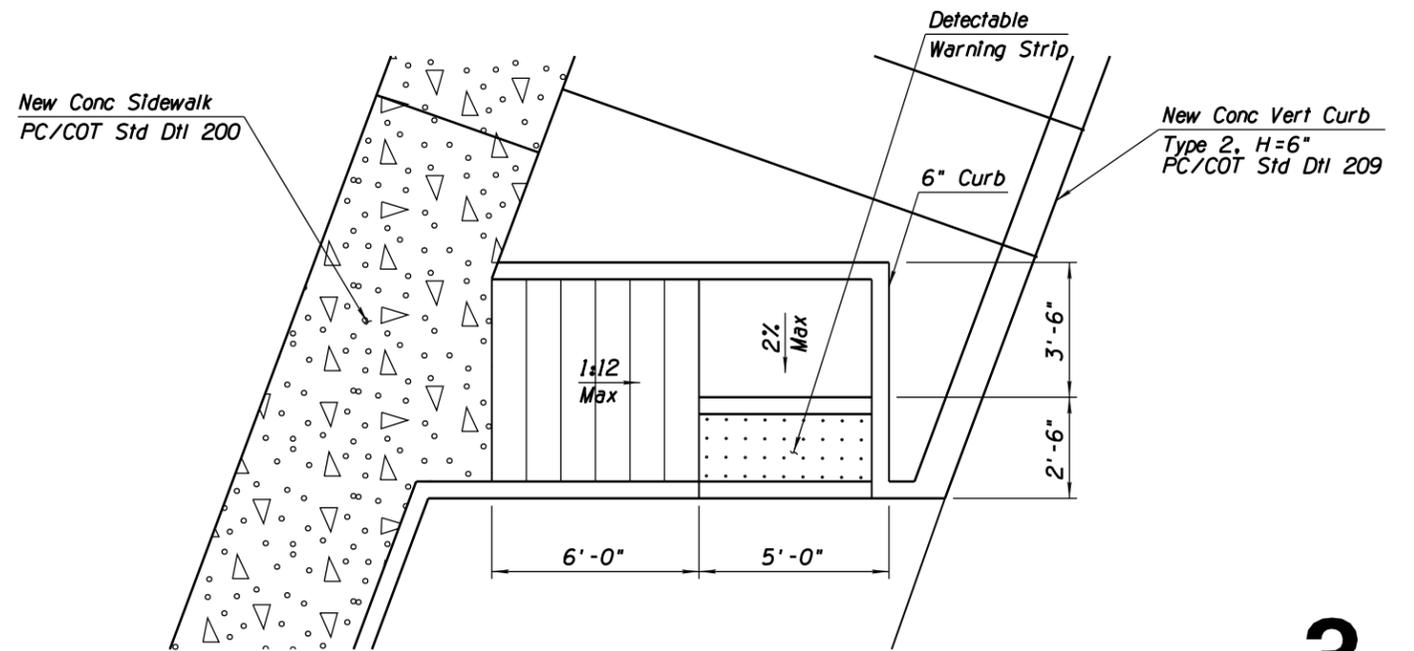
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NO.	DATE	REVISION	BY	CHKD.	APPR.

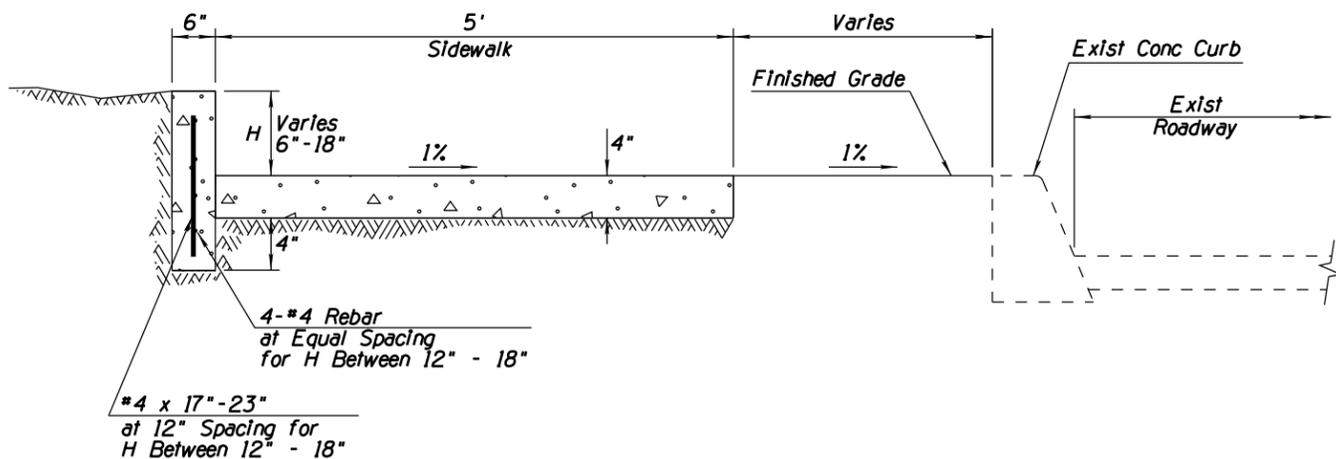


Note:
See PC/COT Std Dtl 200 for additional
construction notes & details

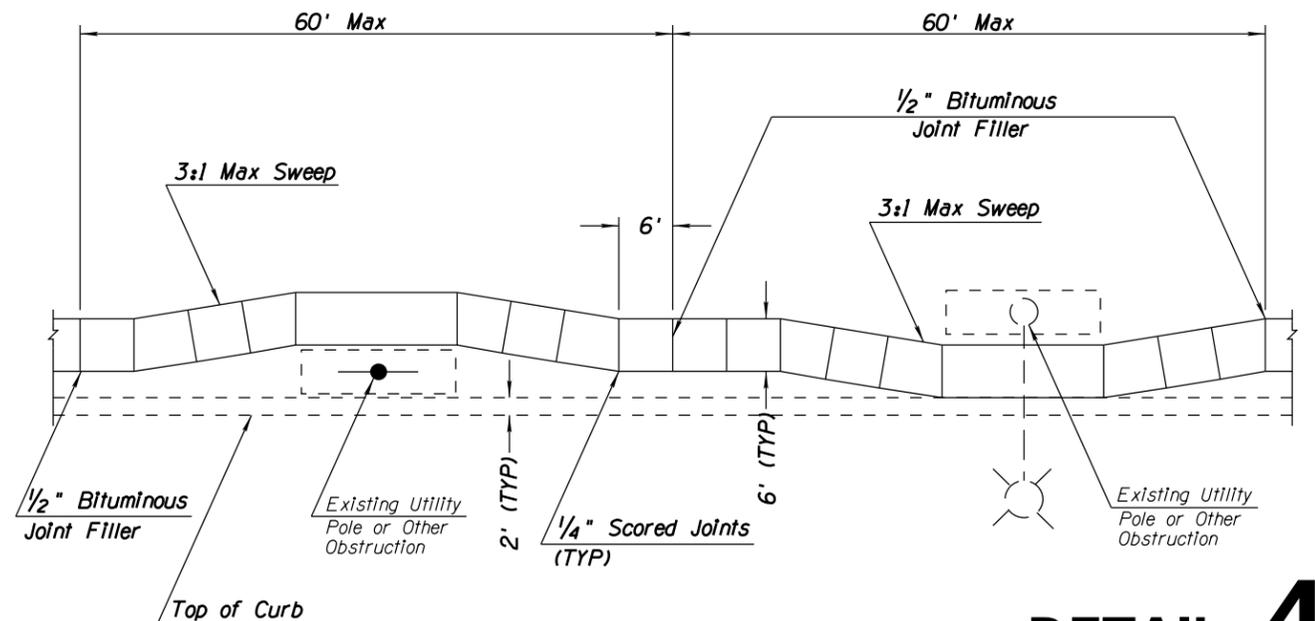
DETAIL 1
Concrete Sidewalk
Typical Section



DETAIL 3
Handicap Ramp



DETAIL 2
Concrete Retaining Curb



DETAIL 4
Sidewalk Sweep Detail

DETAIL SHEET

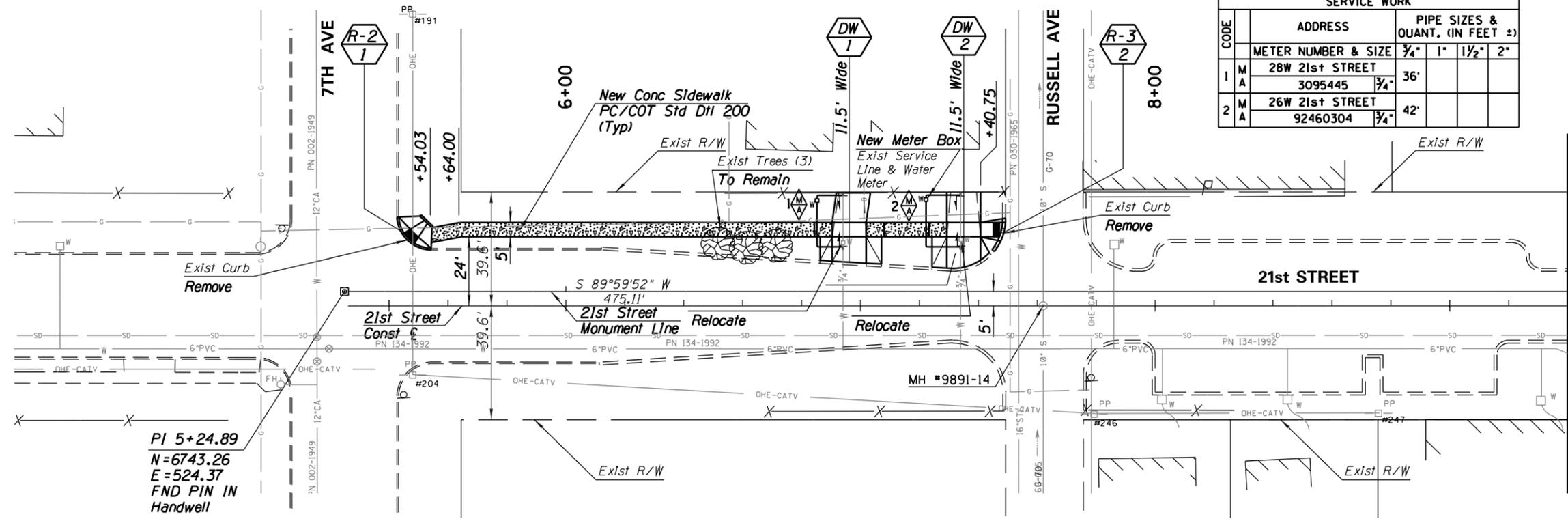
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		4 OF 18
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		
CITY OF TUCSON	DRWN. BY CPG	2013	REF. _____ SCALE: No Scale
	DSGN. BY K Hubbard	2013	PLAN NO. F-2008-003
	CHKD. BY J Vaskovic	2013	

Two working days before you dig,
CALL FOR THE BLUE STAKES
1-800-782-5348
Blue Stakes Center
CALL COLLECT

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SERVICE WORK				
CODE	ADDRESS	PIPE SIZES & QUANT. (IN FEET ±)		
1	M A 28W 21st STREET	3/4"	1"	1 1/2"
		3095445	36'	
2	M A 26W 21st STREET	3/4"	42'	
		92460304		



PI 5+24.89
N=6743.26
E=524.37
FND PIN IN
Handwell

MATCH LINE STA 9+40
SEE BELOW LEFT

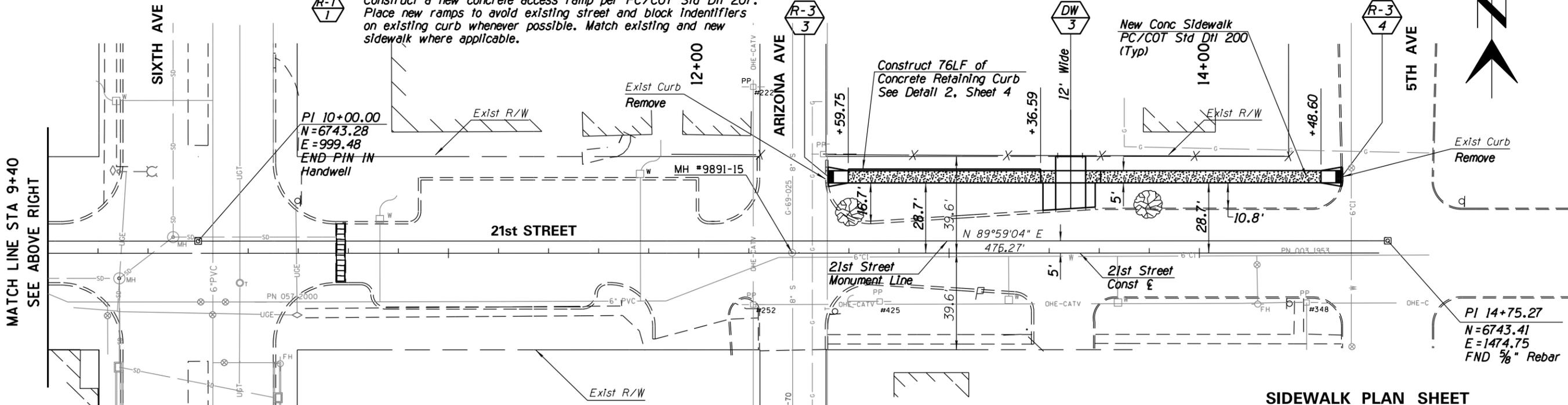
LEGEND

New Concrete Sidewalk

Construct a new concrete driveway per PC/COT Std Dtl 206 within the existing depressed curb. Approximate driveway widths are listed on plans for quantity purposes only.

CONTRACTOR TO USE
CAUTION WHEN WORKING
IN THE VICINITY OF
EXISTING WATER LINES

Construct a new concrete access ramp per PC/COT Std Dtl 207. Place new ramps to avoid existing street and block indentifiers on existing curb whenever possible. Match existing and new sidewalk where applicable.



PI 10+00.00
N=6743.28
E=999.48
END PIN IN
Handwell

PI 14+75.27
N=6743.41
E=1474.75
FND 5/8" Rebar

MATCH LINE STA 9+40
SEE ABOVE RIGHT

SIDEWALK PLAN SHEET

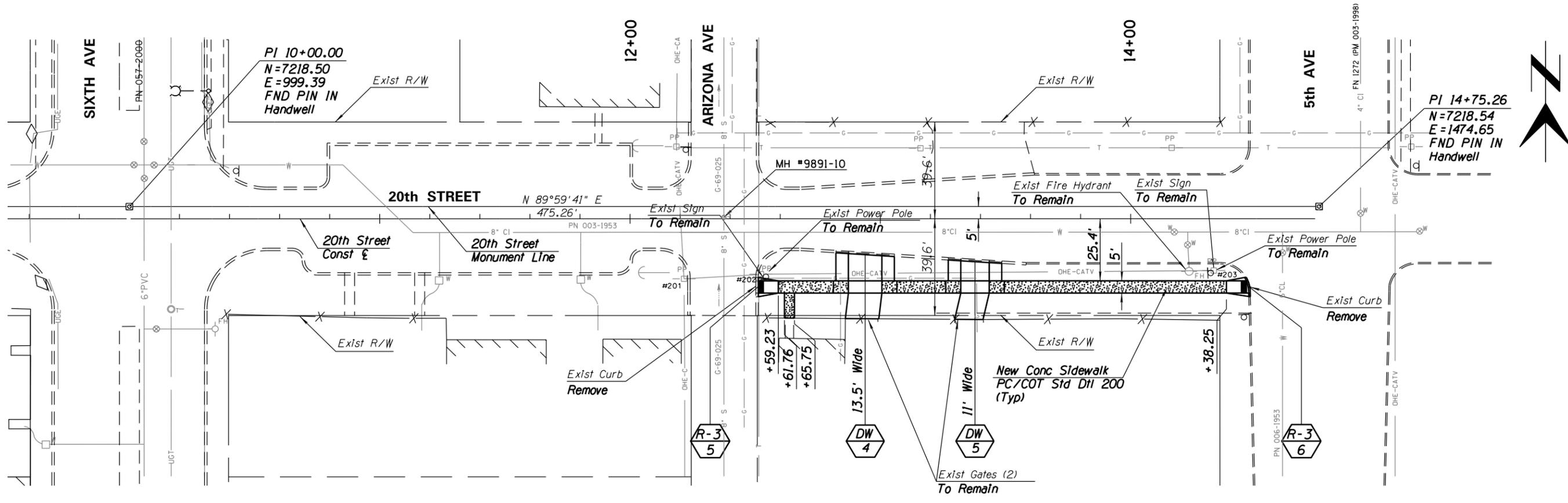
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		5 OF 18
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		
CITY OF TUCSON	DRWN. BY CPG	2013	REF. SCALE: 1"=20'
	DSGN. BY K Hubbard	2013	
	CHKD. BY J Vaskovic	2013	PLAN NO. F-2008-003

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Proj No. 11509C6.00



CONTRACTOR TO USE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING WATER LINES

LEGEND

 **New Concrete Sidewalk**

 **DW 1** Construct a new concrete driveway per PC/COT Std Dtl 206 within the existing depressed curb. Approximate driveway widths are listed on plans for quantity purposes only.

 **R-T 1** Construct a new concrete access ramp per PC/COT Std Dtl 207. Place new ramps to avoid existing street and block indentifiers on existing curb whenever possible. Match existing and new sidewalk where applicable.

SIDEWALK PLAN SHEET

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		6 OF 18
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		
		DRWN. BY CPG DSGN. BY K Hubbard CHKD. BY J Vaskovic	2013 2013 2013

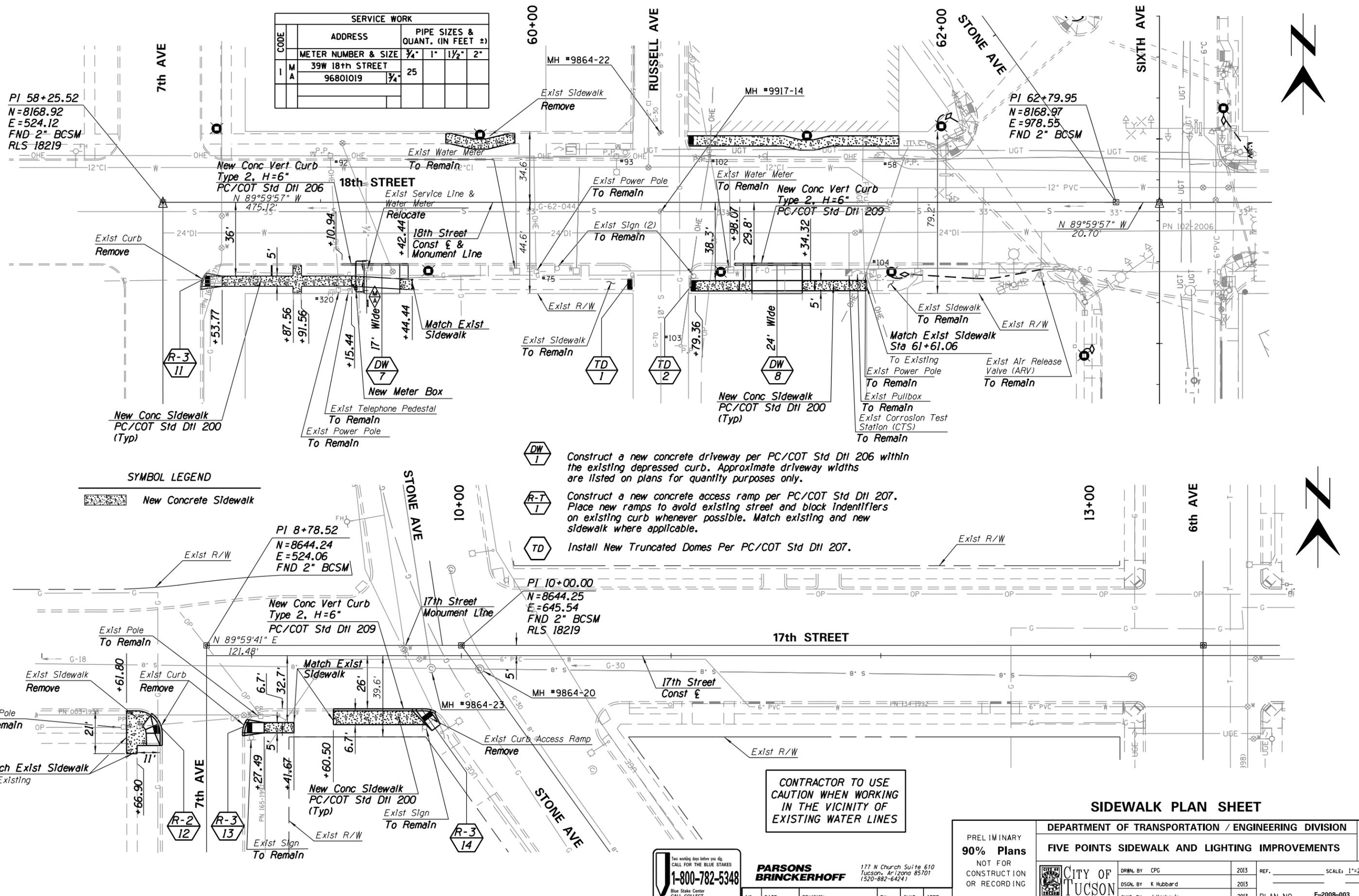
Two working days before you dig
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1-800-782-5348
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 CALL COLLECT

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 (520-882-6424)

NO.	DATE	REVISION	BY	CHKD.	APPR.

Proj No. 11509C6.00

SERVICE WORK			
CODE	ADDRESS	PIPE SIZES & QUANT. (IN FEET ±)	
M A	METER NUMBER & SIZE	¾"	1" 1½" 2"
	39W 18th STREET	25	
	96801019	¾"	



SYMBOL LEGEND

New Concrete Sidewalk

- Construct a new concrete driveway per PC/COT Std D11 206 within the existing depressed curb. Approximate driveway widths are listed on plans for quantity purposes only.
- Construct a new concrete access ramp per PC/COT Std D11 207. Place new ramps to avoid existing street and block indentifiers on existing curb whenever possible. Match existing and new sidewalk where applicable.
- Install New Truncated Domes Per PC/COT Std D11 207.

CONTRACTOR TO USE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING WATER LINES

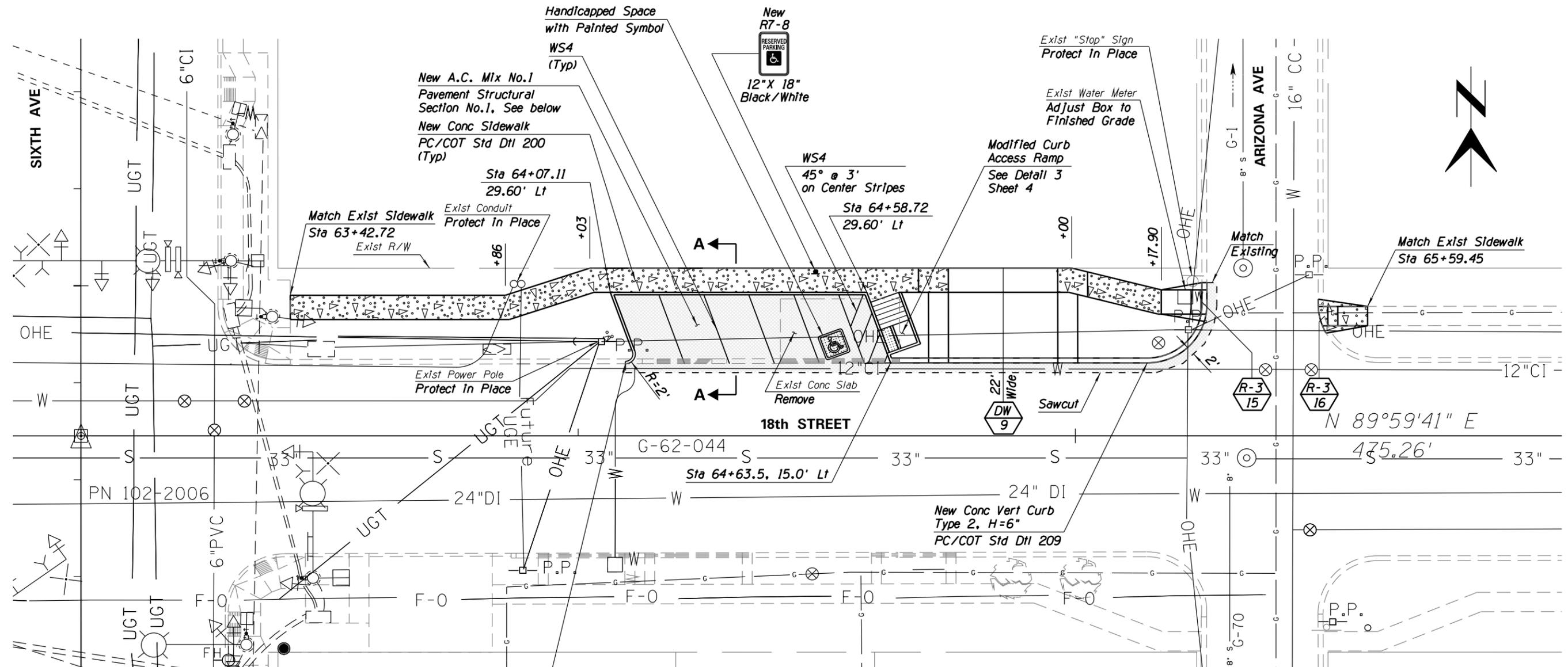
SIDEWALK PLAN SHEET

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		8 OF 18
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		
	DRWN. BY CPG	2013	REF. SCALE: 1"=20'
	DSGN. BY K Hubbard	2013	
	CHKD. BY J Vaskovic	2013	PLAN NO. F-2008-003

Two working days before you dig
CALL FOR THE BLUE STAKES
1-800-782-5348
Blue Stakes Center
CALL COLLECT

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NO.	DATE	REVISION	BY	CHKD.	APPR.

Proj No. 11509C6.00



Handicapped Space with Painted Symbol
 WS4 (Typ)
 New A.C. Mix No.1
 Pavement Structural Section No.1, See below
 New Conc Sidewalk
 PC/COT Std D11 200 (Typ)

New R7-8
 RESERVED PARKING
 12" X 18" Black/White

Exist "Stop" Sign
 Protect In Place
 Exist Water Meter
 Adjust Box to Finished Grade

Match Exist Sidewalk
 Sta 63+42.72
 Exist Conduit
 Protect In Place
 Exist R/W

Sta 64+07.11
 29.60' Lt

WS4
 45° @ 3'
 on Center Stripes
 Sta 64+58.72
 29.60' Lt

Modified Curb
 Access Ramp
 See Detail 3
 Sheet 4

Match Existing

Match Exist Sidewalk
 Sta 65+59.45

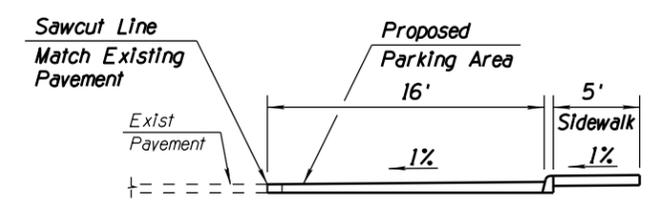
Exist Power Pole
 Protect In Place

Exist Conc Slab
 Remove

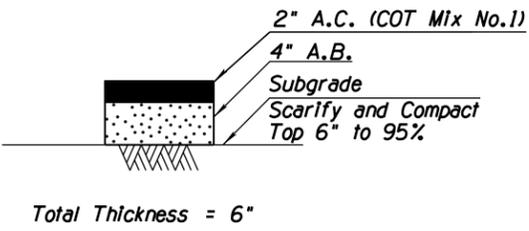
18th STREET

New Conc Vert Curb
 Type 2, H=6"
 PC/COT Std D11 209

Sta 64+10, 14.9' Lt
 Begin New Conc Vert Curb
 Sawcut & Match Exist
 PC/COT Std D11 211



LEGEND
 [Grey Box] New Asphalt
 [Stippled Box] New Concrete



CONTRACTOR TO USE
 CAUTION WHEN WORKING
 IN THE VICINITY OF
 EXISTING WATER LINES

PAVEMENT STRUCTURAL SECTION NO. 1
 NTS

SIDEWALK PLAN SHEET

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		9 OF 18
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		
CITY OF TUCSON	DRWN. BY CPG	2013	REF. SCALE: 1"=10'
	DSGN. BY K Hubbard	2013	
	CHKD. BY J Vaskovic	2013	PLAN NO. F-2008-003

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NO.	DATE	REVISION	BY	CHKD.	APPR.

Proj No. 11509C6.00

GENERAL NOTES

- The Contractor shall reference and adhere to the requirements of the Pima County / City of Tucson Standard Specifications for Public Improvements 2003 edition and the 2003 edition of the Standard Details for Public Improvements and any supplements to those editions.
- New Poles shall be field identified with circuit designation and circuit as indicated on the plans.
- Plan locations of utilities are approximate based on available records. Contractor shall contact Blue Stake at 1-800-782-5348 48 hours in advance for verification of underground utility locations.
- Contractor is responsible for locating all utilities whether shown herein or not and shall protect them from damage. Contractor shall bear all expenses for repair or replacement in conjunction with execution of this contract.
- Any conduit less than 30" deep shall be encased in concrete.
- Typical for all pull box locations, the symbol for the pull boxes are shown diagrammatically. Final location of pull box is adjacent to pole but clear of underground conflicts. Install flush in sidewalk only at location pre-approved by the City of Tucson Inspector.
- Avoid placing underground conduit over existing water mains and maintain a 36" minimum horizontal separation. Typical for all conduit installed for this project.
- Contractor shall comply with and maintain a 12" minimum separation with all Southwest Gas lines.
- Contractor shall chalk line route of conduit for review by City of Tucson Inspection and City of Tucson Landscape Architect for route alignment. Adjust routing as directed to clear landscape features.
- Contractor shall complete work on one side of the street before proceeding to the other side so that not all of the existing lighting is disabled at once, or as approved by the engineer.

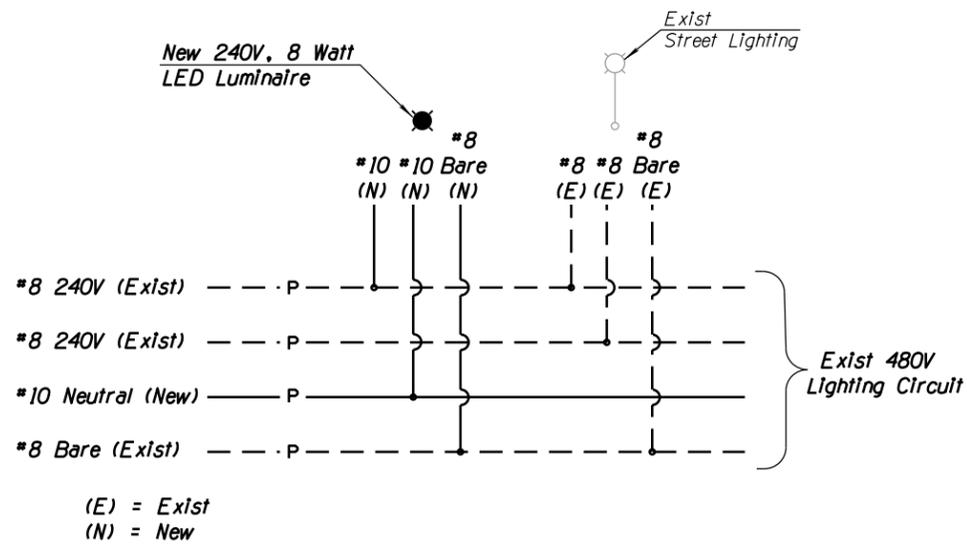
LEGEND

Exist		New
	Street Light	
	Street Light with Mast Arm	
— UGE —	Conduit & Wire	— — — — —
< >	*3-1/2 Pull Box	
	*5 Pull Box	
	*7 Pull Box	
	Street Lighting Cabinet	
P.P.	TEP Power Pole	
	Pole Number	

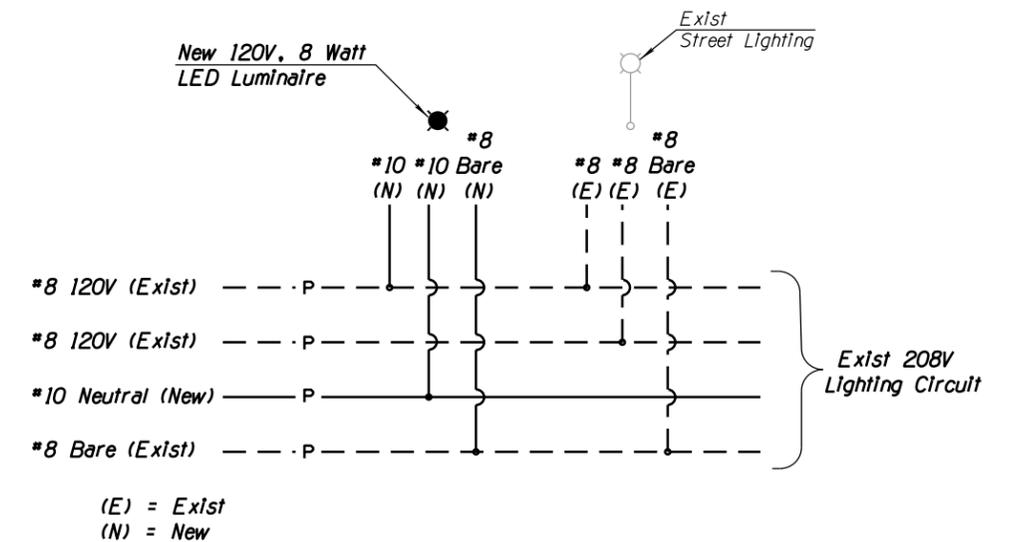
CONDUCTOR SCHEDULE	
Mark	Description of Contents of Conduit
(A)	1-2"C, 2*10 & 1*8 Grd.
(B)	Joint Trench: (EXISTING)
	1-2 1/2" Waver-Rib Conduit - Future TEP
	1-4" Smooth Core Conduit - Future TEP
	1-4" Schedule 40 PVC Conduit - Cable TV
	1-4" Schedule 40 PVC Conduit - Tucson INET Fiber
	1-2"C, 2*10 & 1*8 Grd. - COT Street Lighting
(C)	Joint Trench: (EXISTING)
	1-2 1/2" Waver-Rib Conduit - Future TEP
	1-4" Smooth Core Conduit - Future TEP
	1-4" Schedule 40 PVC Conduit - Cable TV
	1-4" Schedule 40 PVC Conduit - Tucson INET Fiber

STREET LIGHT LOCATIONS			
POLE #	SHEET LOCATION	STATION	OFFSET
1	12	58+50.5	36.0' Lt
2	12	59+51.0	33.5' Rt
3	12	59+80.0	33.0' Lt
4	12	60+91.0	34.0' Rt
5	12	61+32.0	32.5' Lt
6	12	61+72.0	34.0' Rt
7	12	61+96.0	37.0' Lt
8	12	62+62.0	98.0' Lt
9	13	63+31.0	46.0' Lt
10	13	64+00.0	22.5' Lt
11	13	63+52.2	29.0' Rt
12	13	64+92.5	29.0' Rt
13	13	65+05.0	21.0' Lt
14	13	65+89.0	20.0' Lt
15	13	66+50.0	30.0' Rt
16	13	66+80.0	27.0' Lt
17	13	67+44.0	39.0' Rt
18	12	62+64.0	75.0' Rt
19	13	65+60.0	30.0' Rt

Note:
All Station & Offsets are Taken From 18th St Construction Centerline.



**WIRING DIAGRAM
(STREET LIGHTING ALONG STONE AVE)**



**WIRING DIAGRAM
(STREET LIGHTING ALONG SIXTH AVE)**

STREET LIGHT MODIFICATIONS - NOTES

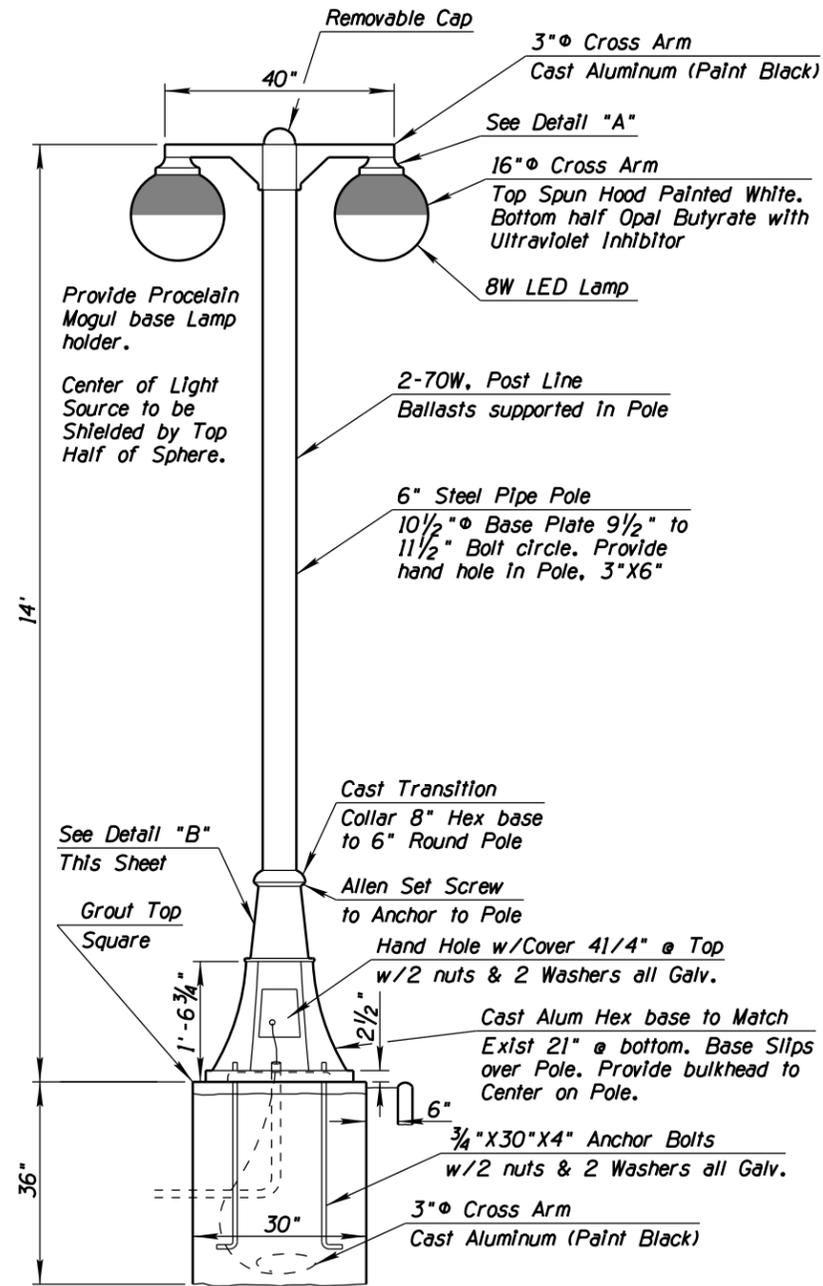
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		10 OF 18
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		
CITY OF TUCSON	DRWN. BY CPG	2013	REF. SCALE: NTS
	DSGN. BY K Hubbard	2013	PLAN NO. F-2008-003
	CHKD. BY J Vaskovic	2013	



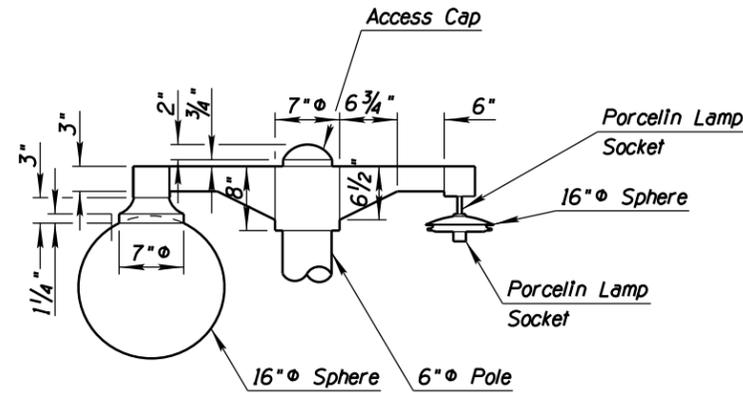
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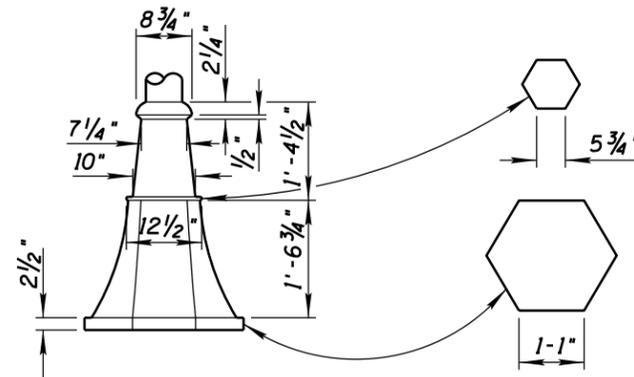
NO.	DATE	REVISION	BY	CHKD.	APPR.



POLE AND FOUNDATION DETAIL
NTS



DETAIL "A"
NTS



DETAIL "B"
NTS

STREET LIGHT MODIFICATIONS - DETAILS

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		11
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF 18
CITY OF TUCSON	DRWN. BY CPG	2013	REF. _____ SCALE: No Scale
	DSGN. BY K Hubbard	2013	_____
	CHKD. BY J Vaskovic	2013	PLAN NO. F-2008-003



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STREET LIGHTING GENERAL NOTES:

THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2003 EDITION (2003 SSP) AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.

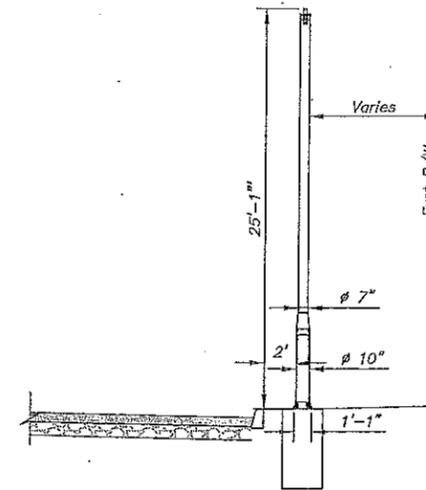
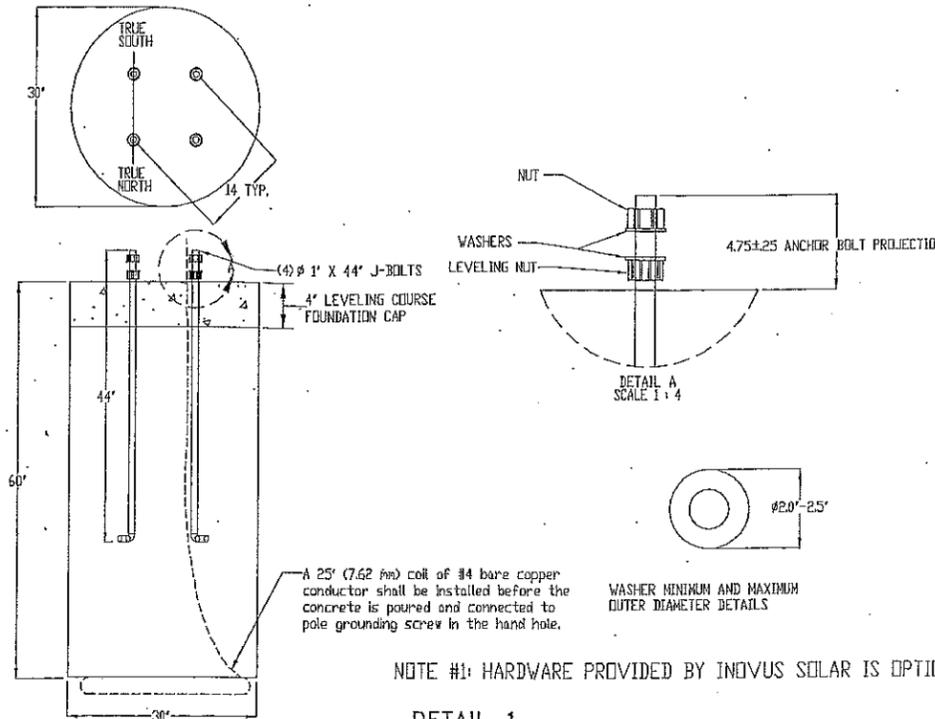
1. THE CONTRACTOR SHALL COMPLY WITH STATE, COUNTY, AND CITY OF TUCSON ORDINANCES ALONG WITH THE MANUFACTURER'S RECOMMENDATIONS OF ALL PRODUCTS BEING CONSTRUCTED AND INSTALLED.
2. PRIOR TO SUBMITTING A PROPOSAL, THE BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THEY WILL OPERATE. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONNECTION WITH OR ON BEHALF OF THE CONTRACTOR FOR ANY ERRORS OR NEGLIGENCE ON HIS PART.
3. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE CITY OF TUCSON RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS INDICATED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS' OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN THE CITY OF TUCSON RIGHT-OF-WAY.
5. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION FROM THE PLANS. PLANS SHALL BE FURNISHED TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE CITY OF TUCSON REPRESENTATIVE. AS-BUILT REDLINE PLANS SHALL BE UPDATED, DAILY AND KEPT ON SITE AT ALL TIMES FOR REVIEW BY CITY OF TUCSON STAFF.
6. LIGHT POLES SHALL BE INSTALLED PLUMB, ADJUSTED TO PROVIDE THE PROPER ALIGNMENT TO THE ROADWAY AND PEDESTRIAN WALKWAYS BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETE.
7. INSTALL BOLTS ACCORDING TO INOVUS SPECIFICATIONS SO POLES ARE ORIENTED TO THE NORTH.
8. INOVUS TO PROVIDE TEMPLATE FOR BOLT LAYOUT.

LEGEND

- ⊠ FOUND BRASS CAP SURVEY MONUMENT (BCSM)
- ⊙ CALCULATED POINT -- NOTHING FOUND OR SET
- ⊙ PHOTO ID POINT (PHOTOID)
- ⊙ SEWER MANHOLE (SMH)
- ⊙ SEWER CLEANOUT (SCO)
- UP UTILITY POLE (UP)
- TELEPHONE PEDESTAL (TP)
- DOWN GUY ANCHOR (DG)
- STREET LIGHT PULL BOX (SLPBX)
- LANDSCAPE LIGHT (LSL)
- TRAFFIC SIGNAL PULL BOX (TSPBX)
- WATER VALVE (WV)
- WATER METER (WM)
- FIRE HYDRANT (FH)
- SIGN (SN)
- SIGN W/MULTI POSTS (MPS)
- DELINEATOR (DEL)
- GUARD POST (GP)
- MAIL BOX (MB)
- SAGUARO CACTUS (SAC)
- GAS METER (GM)
- GAS UTILITY MARKER (MRKGAS)
- DRIVEWAY LOCATION (DW)
- SEWER LOCATION (BASED ON EXISTING ABOVE GROUND SEWER STRUCTURES AND BASEMAPS)
- OVERHEAD UTILITY LOCATION (POWER, TELEPHONE AND CABLE BASED ON EXISTING ABOVE GROUND UTILITY POLES AND UTILITY COMPANY BASEMAPS)
- UNDERGROUND TELEPHONE LOCATION (BASED ON QWEST UTILITY BASEMAP)
- UNDERGROUND GAS LOCATION (BASED ON SOUTHWEST GAS UTILITY BASEMAP)
- UNDERGROUND WATER LOCATION (BASED ON TUCSON WATER UTILITY BASEMAP)
- (M) MEASURED BEARING AND/OR DISTANCE
- (C) CALCULATED BEARING AND/OR DISTANCE
- (R) RECORD BEARING AND/OR DISTANCE PER BOOK 7 MAPS AND PLATS PAGE 85
- (R1) RECORD BEARING AND/OR DISTANCE PER BOOK 33 MAPS AND PLATS PAGE 68
- RIGHT-OF-WAY
- PROPERTY LINE
- PROPOSED SINGLE LUMINAIRE

STREET LIGHTING KEY NOTES:

1. INSTALL FOOTER
2. INSTALL LIGHT ASSEMBLY



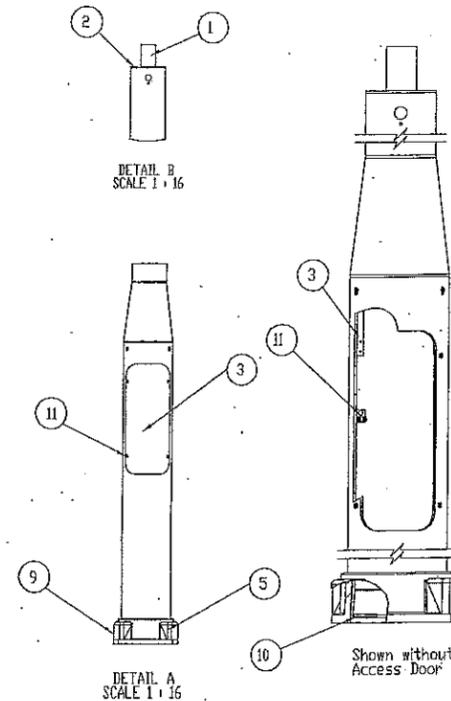
**LIGHTPOLE TYPICAL SECTION
INOVUS SOLAR OFF-GRID SOLAR
LIGHTING SYSTEM**

NOTES

1. FOOTING SHALL BE CLASS 3000 PSI CONCRETE.
2. A 25' (7.62 mm) COIL OF #4 AWG BARE COPPER CONDUCTOR SHALL BE INSTALLED BEFORE THE CONCRETE IS POURED AND CONNECTED TO THE POLE GROUNDING SCREW IN THE HAND HOLE.
3. ANCHOR BOLTS SHALL BE 1" X 4 1/4" X 4" (32 mm x 112 mm x 100 mm) WITH TWO HEX NUTS AND TWO FLAT WASHERS PER BOLT.
4. ANCHOR BOLTS SHALL PROJECT ABOVE THE FOUNDATION.
5. THE FOUNDATION HOLE SHALL BE AUGURED AND CLASS "S" (3000 PSI) CONCRETE POURED AGAINST UNDISTURBED COMPACTED EARTH.
6. ALL POLES AND MAST ARMS SHALL BE STRAIGHT AND TRUE.
7. CONTRACTOR IS REQUIRED TO BE CERTIFIED BY INOVUS TO MAINTAIN PRODUCT WARRANTIES.
8. INSTALLER WILL BE REQUIRED TO HANDLE AND INSTALL POLES SO NO DAMAGE OCCURS TO SOLAR PANELS AND MUST PROVIDE PROPER SOLAR ORIENTATION.

NOTE #1: HARDWARE PROVIDED BY INOVUS SOLAR IS OPTIONAL.

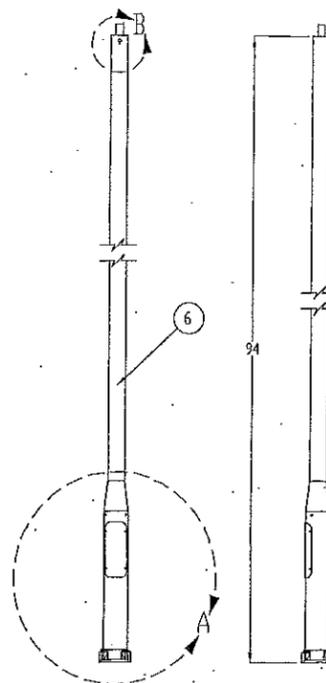
DETAIL 1



NOTES: unless otherwise specified
1) all sharp edges to be deburred
2) all machining debris to be removed

ITEM NO.	PART NUMBER	QTY.
1	Tenon, standard 3inch	1
2	Plate, Tenon 7inch	1
3	Bracket, Controller	1
4	Bracket, Controller	1
5	Base, light duty 10inch square	1
6	Pole, Alum_revB	1
8	Access Door Assn	1
9	Cap, bolt	4
10	Shelf, Battery	1
11	Double Barrel Wire Lug 2-14 AWG CUSAL	1

DETAIL 2



STREET LIGHT MODIFICATIONS - DETAILS

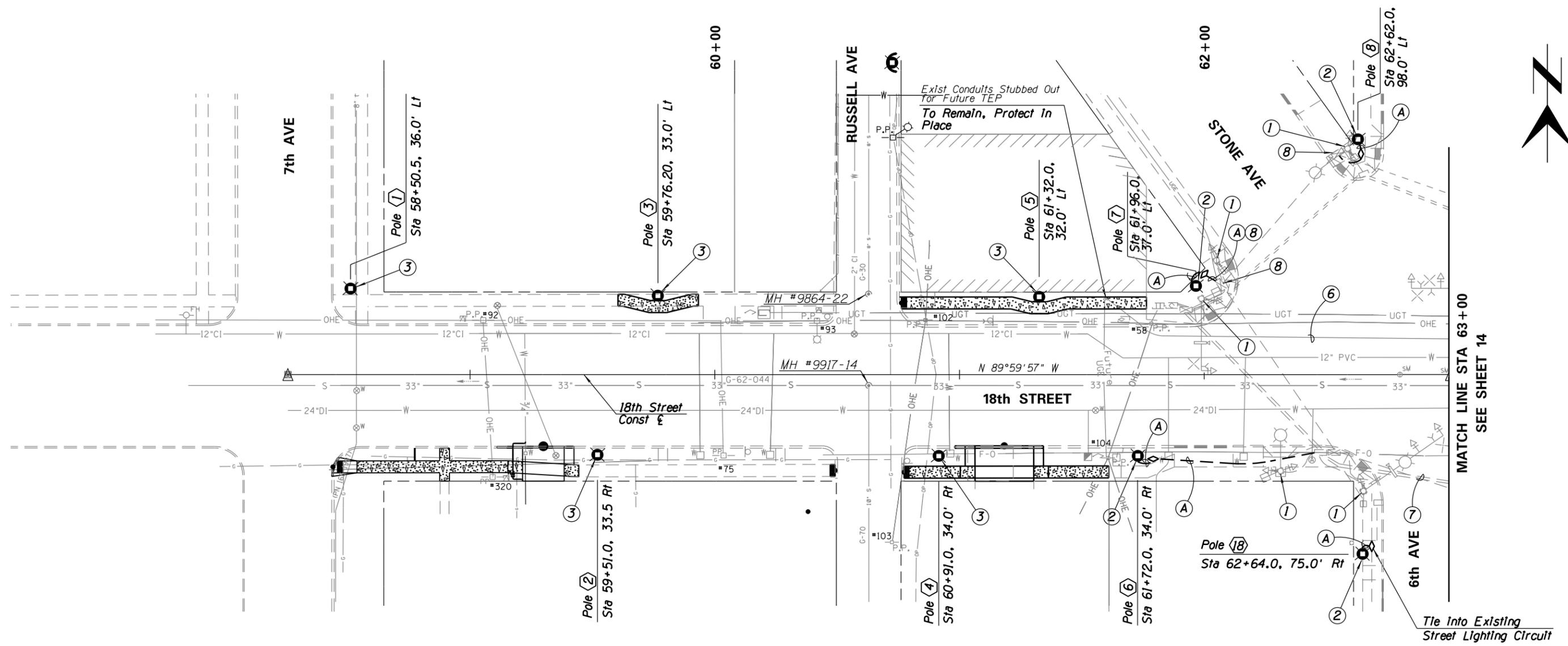
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		12
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF 18
CITY OF TUCSON	DRWN BY CPG	2013	REF. _____ SCALE: No Scale
	DSGN BY K Hubbard	2013	
	CHKD BY J Vaskovic	2013	PLAN NO. F-2008-003

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MATCH LINE STA 63+00
SEE SHEET 14

Tie Into Existing
Street Lighting Circuit

- LEGEND**
- (A) Conduit Run
 - (1) Construction Note
 - (#) Pole Number

- CONSTRUCTION NOTES**
1. Existing Traffic Signal Pole to Remain.
 2. New Street Light Pole, Armory Park Style.
 3. New Street Light Pole, Inovus Solar.
 4. Existing 5th Avenue Street Light Circuit and Conduit.
 5. Existing Armory Park Style Street Light to Remain.
 6. Existing Underground Conduits for Future UG Electric (2 Conduits) Cable TV, Tucson INET Fiber, and COT Electric. Use COT Electric Conduit for new 18th Street Armory Park Style Street Lights. Refer to Joint Use Trench Detail this sheet.
 7. Existing 2-4" Conduits for COT Electric. Use One of the conduits for New 18th Street Armory Park Style Street Lights.
 8. Run New Conduit to Exist Traffic Signal Pull box and Connect New Conductors to Existing Signal Lighting Signal.

CONTRACTOR TO USE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING WATER LINES

STREET LIGHT MODIFICATIONS

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		13
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF
			18
CITY OF TUCSON	DRWN. BY CPG	2013	REF. SCALE: 1"=20'
	DSGN. BY K Hubbard	2013	
	CHKD. BY J Vaskovic	2013	PLAN NO. F-2008-003



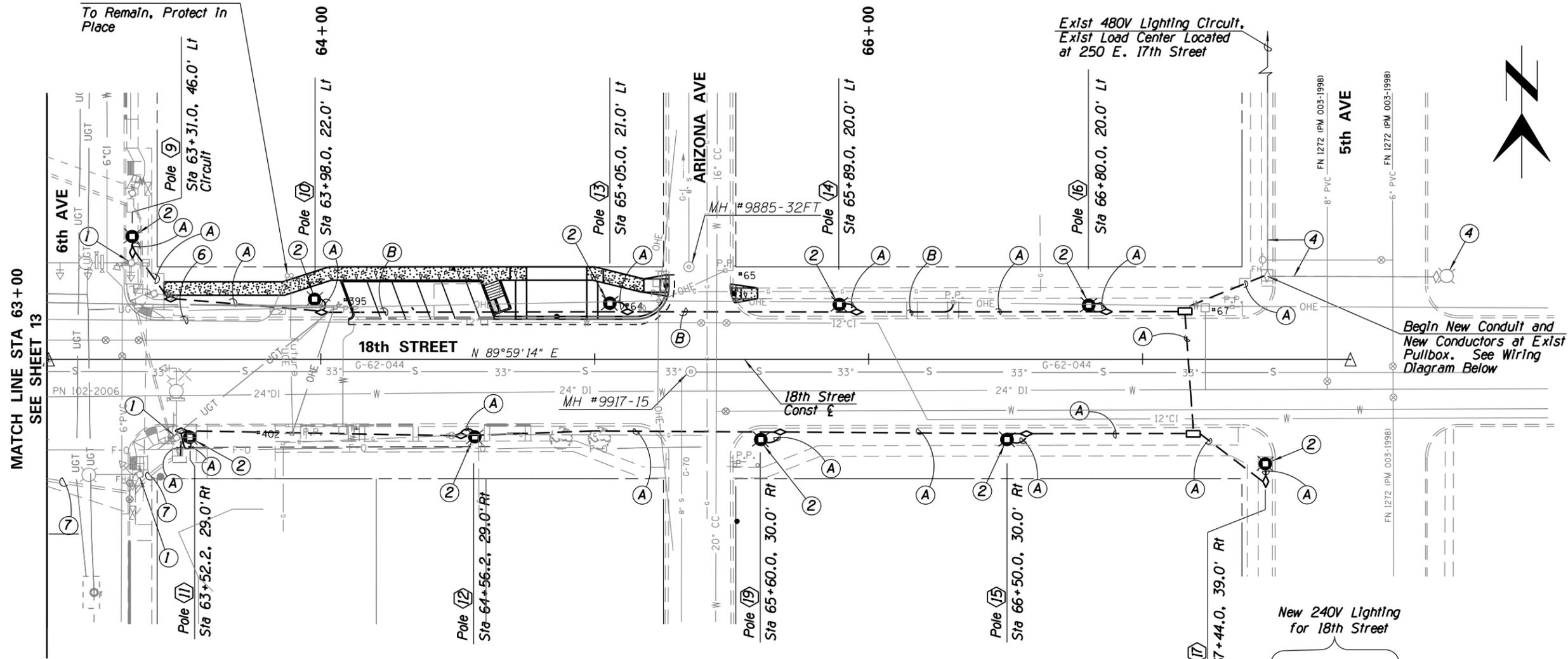
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Exist Conduits Stubbed Out for Future TEP
To Remain, Protect in Place

Exist 480V Lighting Circuit, Exist Load Center Located at 250 E. 17th Street



MATCH LINE STA 63+00
SEE SHEET 13

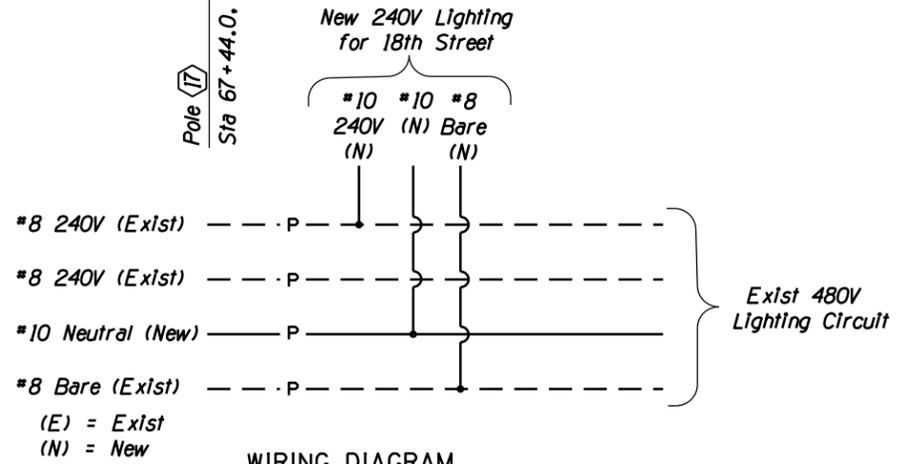
LEGEND

- (A) Conduit Run
- (1) Construction Note
- (*) Pole Number

CONSTRUCTION NOTES

1. Existing Traffic Signal Pole to Remain.
2. New Street Light Pole, Armory Park Style.
3. New Street Light, Inovus Solar.
4. Existing 480V Street Light Circuit and Conduit.
5. Existing Armory Park Style Street Light to Remain.
6. Existing Underground Conduits for Future UG Electric (2 Conduits) Cable TV, Tucson INET Fiber, and COT Electric. Use COT Electric Conduit for new 18th Street Armory Park Style Street Lights. Refer to Joint Use Trench Detail this sheet.
7. Existing 2-4" Conduits for COT Electric. Use One of the conduits for New 18th Street Armory Park Style Street Lights.
8. Run New Conduit to Exist Traffic Signal Pull box and Connect New Conductors to Existing Signal Lighting Signal.

CONTRACTOR TO USE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING WATER LINES



WIRING DIAGRAM
(STREET LIGHTING ALONG 18th ST)

STREET LIGHT MODIFICATIONS

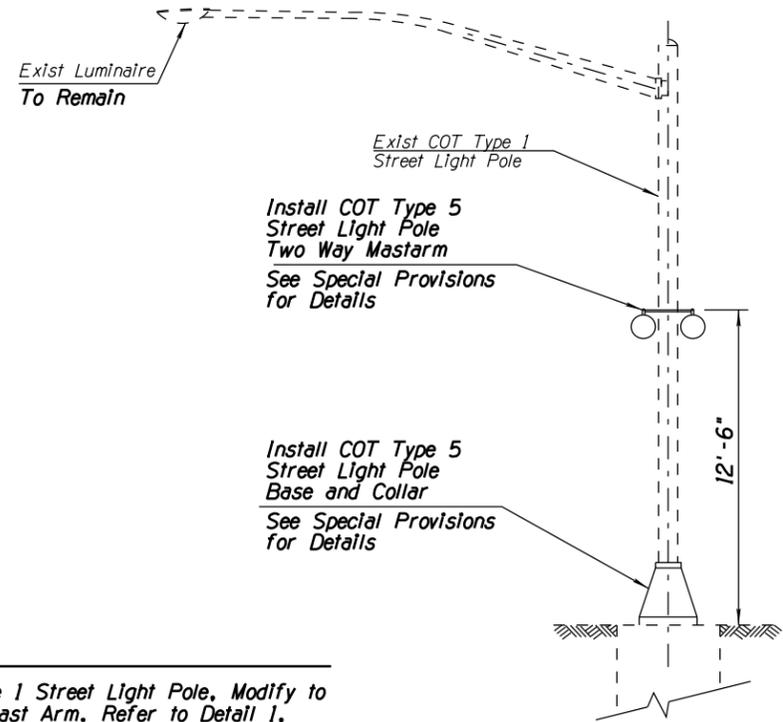
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		14
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF 18
CITY OF TUCSON	DRWN. BY CPG	2013	REF. _____ SCALE: 1"=20'
	DSGN. BY K Hubbard	2013	PLAN NO. F-2008-003
	CHKD. BY J Vaskovic	2013	

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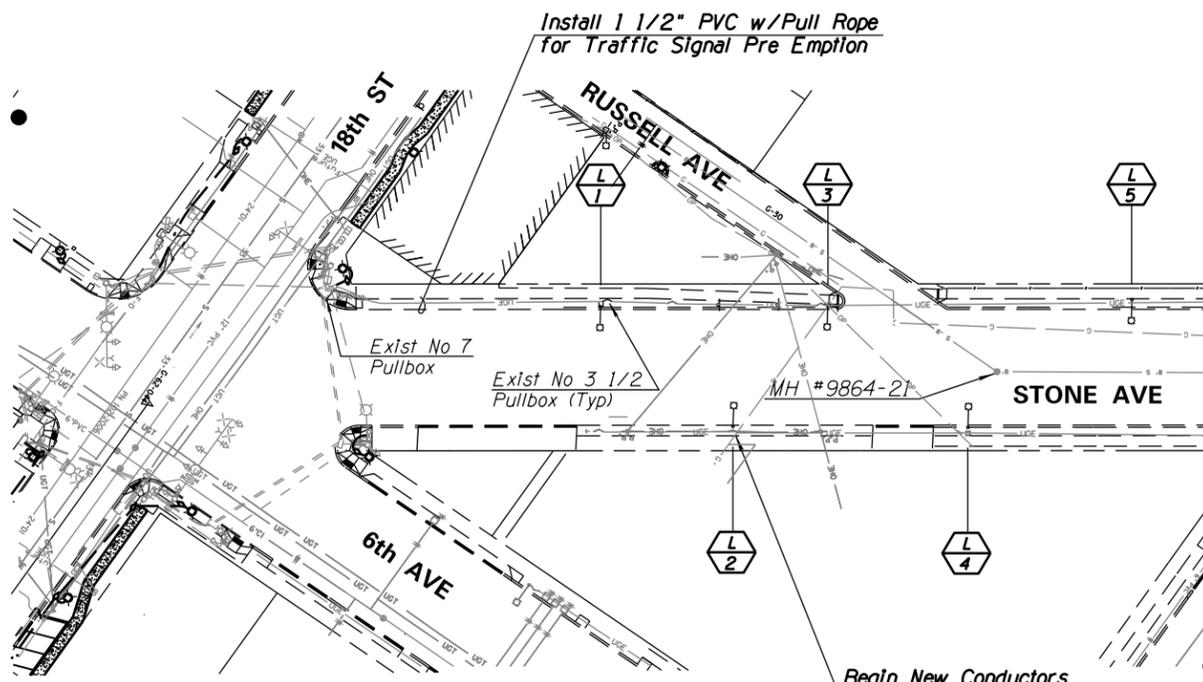
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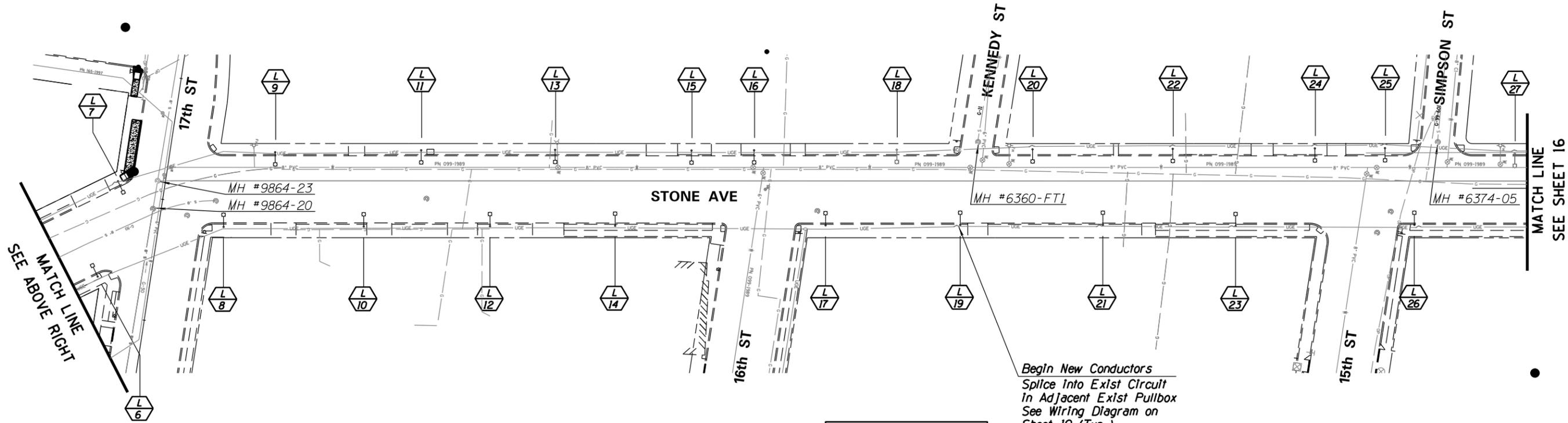
Proj No. 11540C



EXISTING POLE MODIFICATION DETAIL 1
NTS



- NOTES:
1. Exist COT Type 1 Street Light Pole, Modify to add Two-Way Mast Arm. Refer to Detail 1, This Sheet.



LEGEND

Exist COT Type 1 Street Light Pole

RUN A NEW #10 NEUTRAL BACK TO THE EXISTING 480V LOAD CENTER LOCATED ON THE NW CORNER OF 17th ST AND RUSSELL AVE

Begin New Conductors Splice into Exist Circuit In Adjacent Exist Pullbox See Wiring Diagram on Sheet 10 (Typ.)

STREET LIGHT MODIFICATIONS

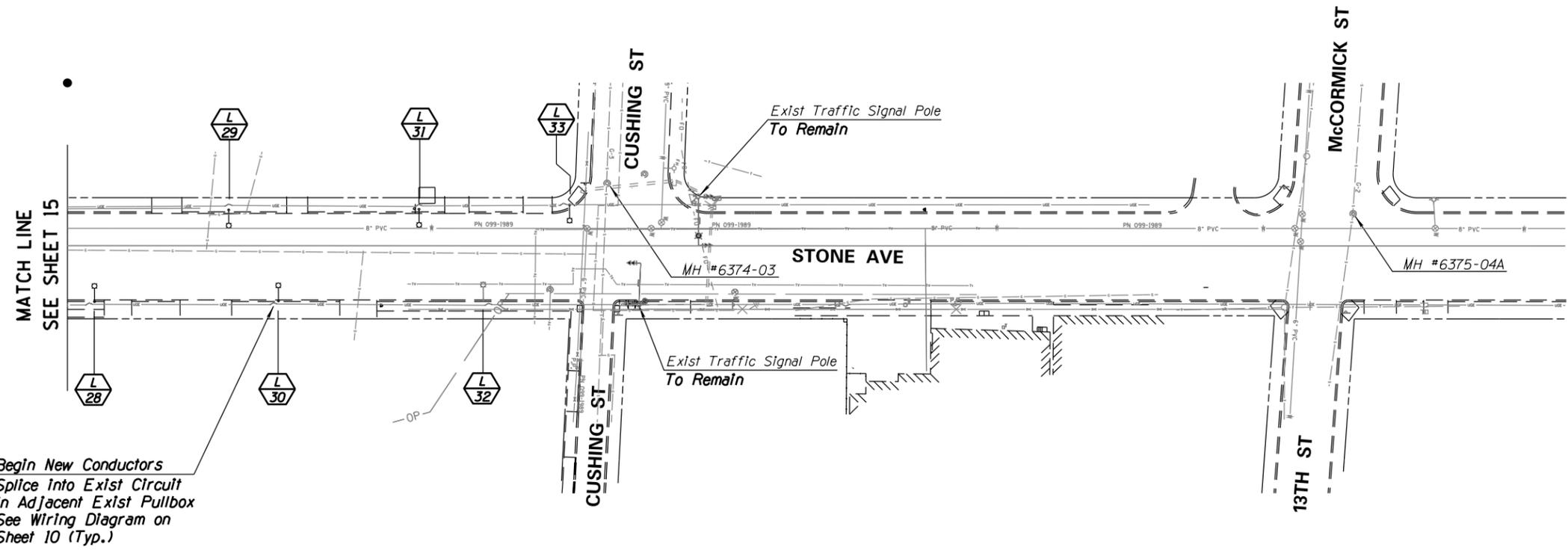
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		15
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF 18
CITY OF TUCSON	DRWN. BY CPG	2013	REF. _____ SCALE: 1"=40'
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	CHKD. BY J Vaskovic	2013	

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NOTES:

1. Exist COT Type 1 Street Light Pole, Modify to add Two-Way Mast Arm. Refer to Detail 1, Sheet 14

LEGEND

-  Exist COT Type 1 Street Light Pole

RUN A NEW #10 NEUTRAL BACK TO THE EXISTING 480V LOAD CENTER LOCATED ON THE NW CORNER OF 17th ST AND RUSSELL AVE

STREET LIGHT MODIFICATIONS

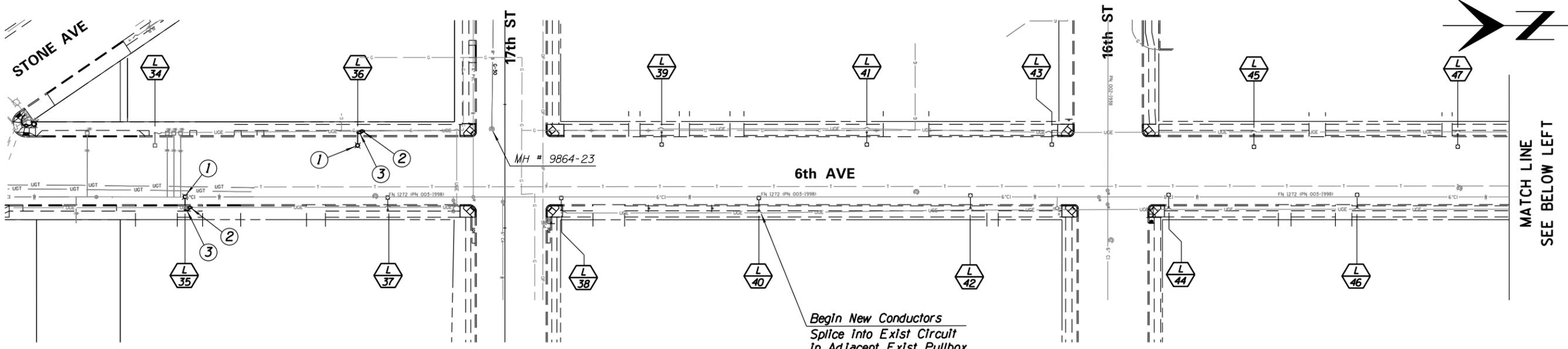
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		16
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF
	18		
 CITY OF TUCSON	DRAWN BY: CPG 2013	REF. _____ SCALE: 1"=40'	
	DESIGNED BY: K Hubbard 2013	CHECKED BY: J Vaskovic 2013	PLAN NO. F-2008-003

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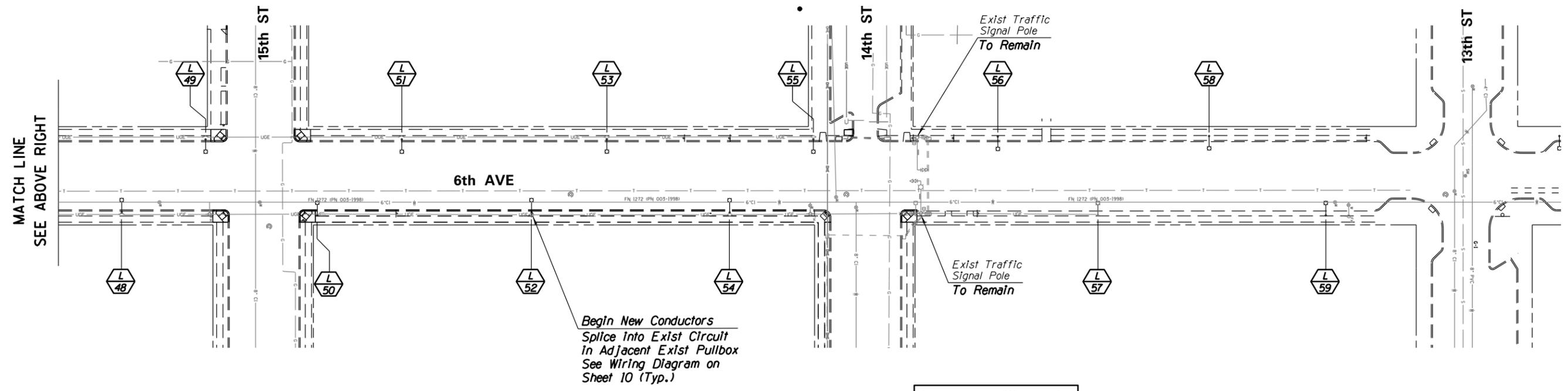


MATCH LINE
SEE BELOW LEFT

○ CONSTRUCTION NOTES

1. New Cobra Style Street Light and Foundation.
2. New 3 1/2 Pull Box.
3. 1-2" Conduit, 2 #10 Conductors & 1 #8 Grd. Splice Into Existing Street Light Circuit. See Wiring Diagram on Sheet 10.

- NOTES:
1. Exist COT Type 1 Street Light Pole, Modify to add Two-Way Mast Arm. Refer to Detail 1, Sheet 14



MATCH LINE
SEE ABOVE RIGHT

LEGEND

Exist COT Type 1 Street Light Pole

RUN A NEW #10 NEUTRAL BACK TO THE EXISTING 208V LOAD CENTER LOCATED ON SCOTT AVE BETWEEN 14th ST AND 15th ST

STREET LIGHT MODIFICATIONS

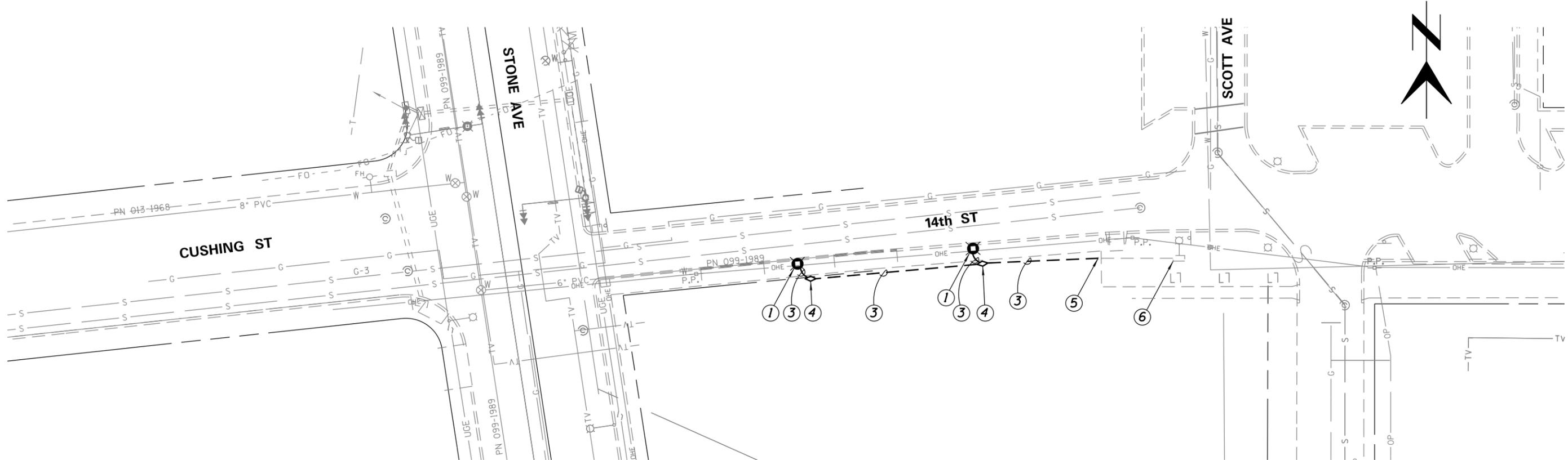
PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		17
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		OF
	CITY OF TUCSON		18
DRAWN BY: CPG DSGN BY: K Hubbard CHKD BY: J Vaskovic	2013 2013 2013	REF. _____ SCALE: 1"=40' PLAN NO. F-2008-003	

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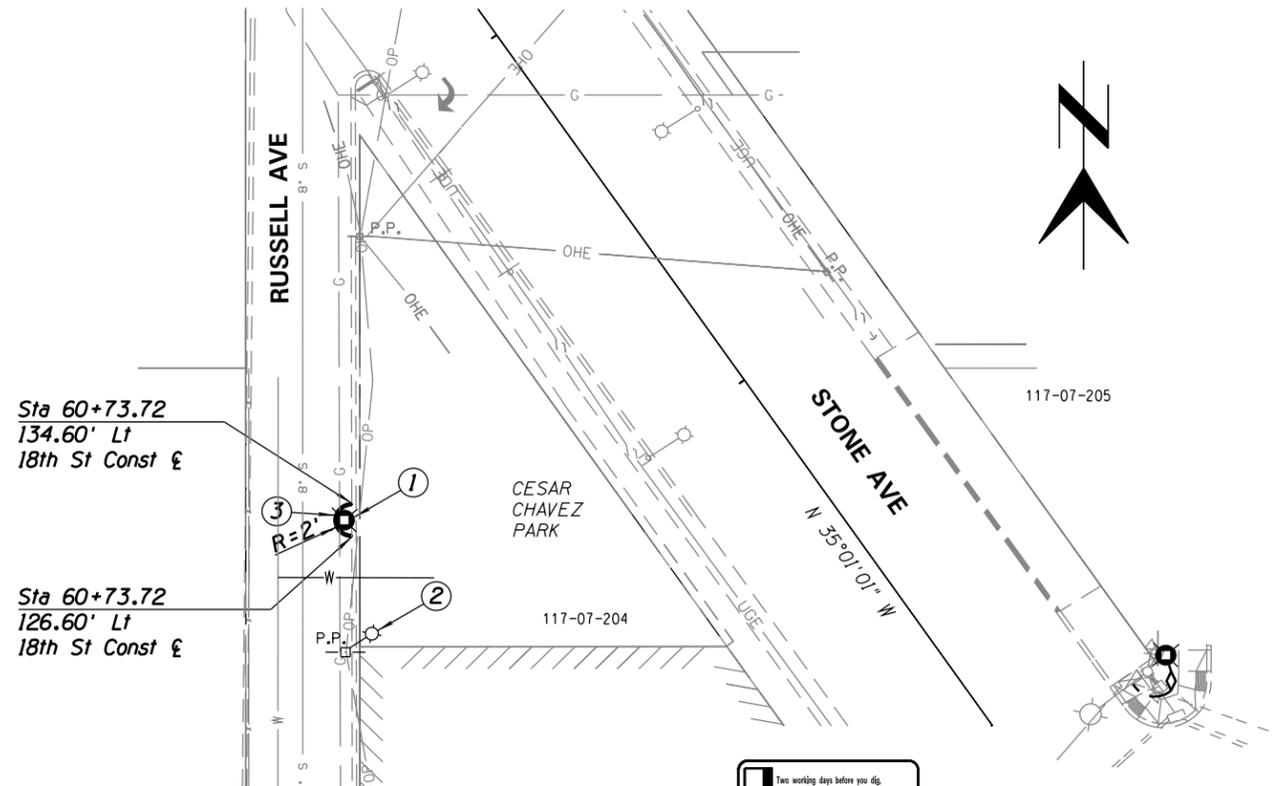
Proj No. 11540C



CONTRACTOR TO USE
CAUTION WHEN WORKING
IN THE VICINITY OF
EXISTING WATER LINES

○ CONSTRUCTION NOTES

1. Install Street Light Pole, Inovus Solar, Sta 60+72, 130.60' Lt 18th St Const &
2. Existing Light, to Remain.
3. New Conc Vertical Curb Type 2, H=10" PC/COT Std Dtl 209



STREET LIGHT MODIFICATIONS

PRELIMINARY 90% Plans NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION		18 OF 18
	FIVE POINTS SIDEWALK AND LIGHTING IMPROVEMENTS		
CITY OF TUCSON	DRWN. BY CPG	2013	REF. SCALE: 1"=40'
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	CHKD. BY J Vaskovic	2013	

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