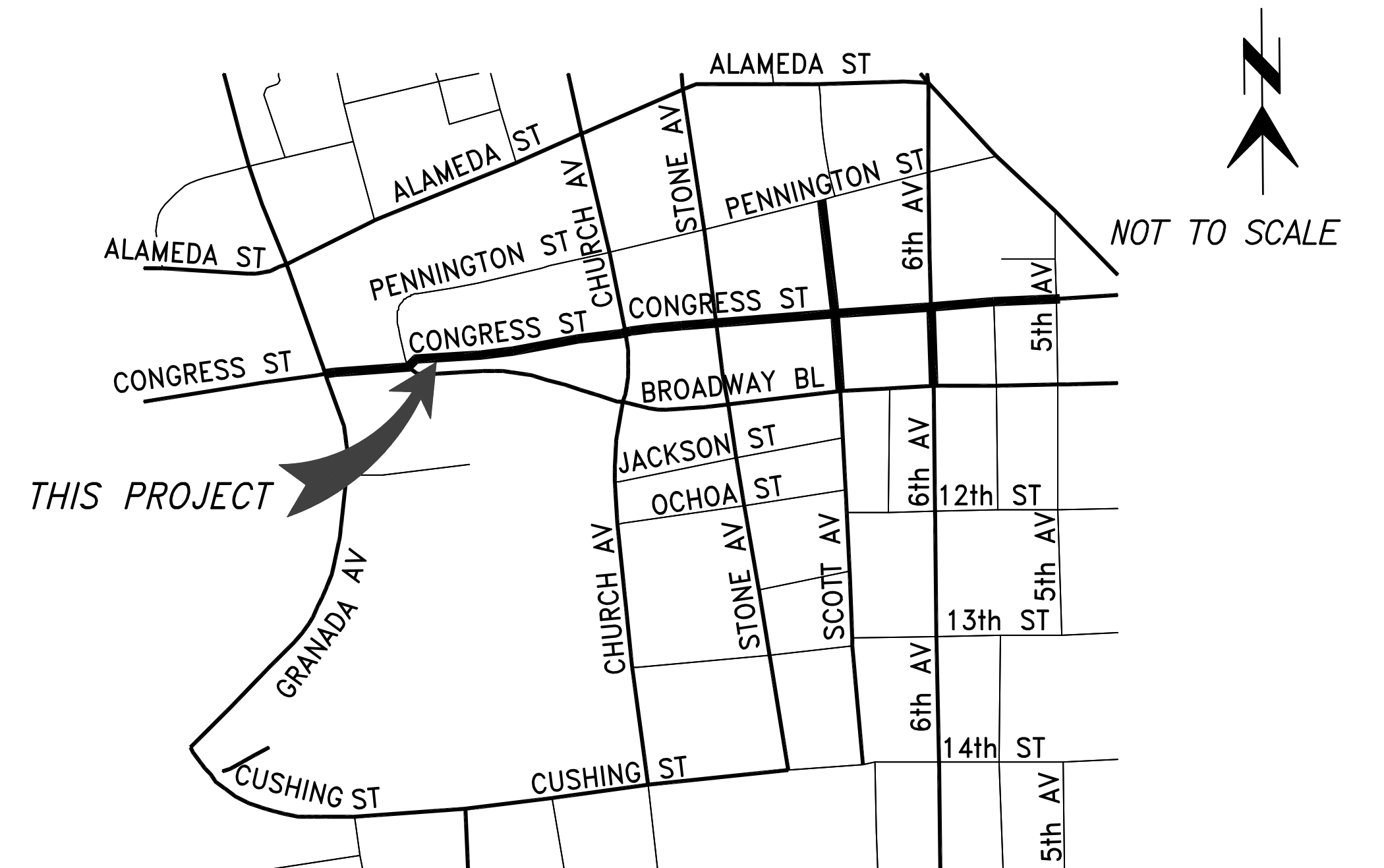
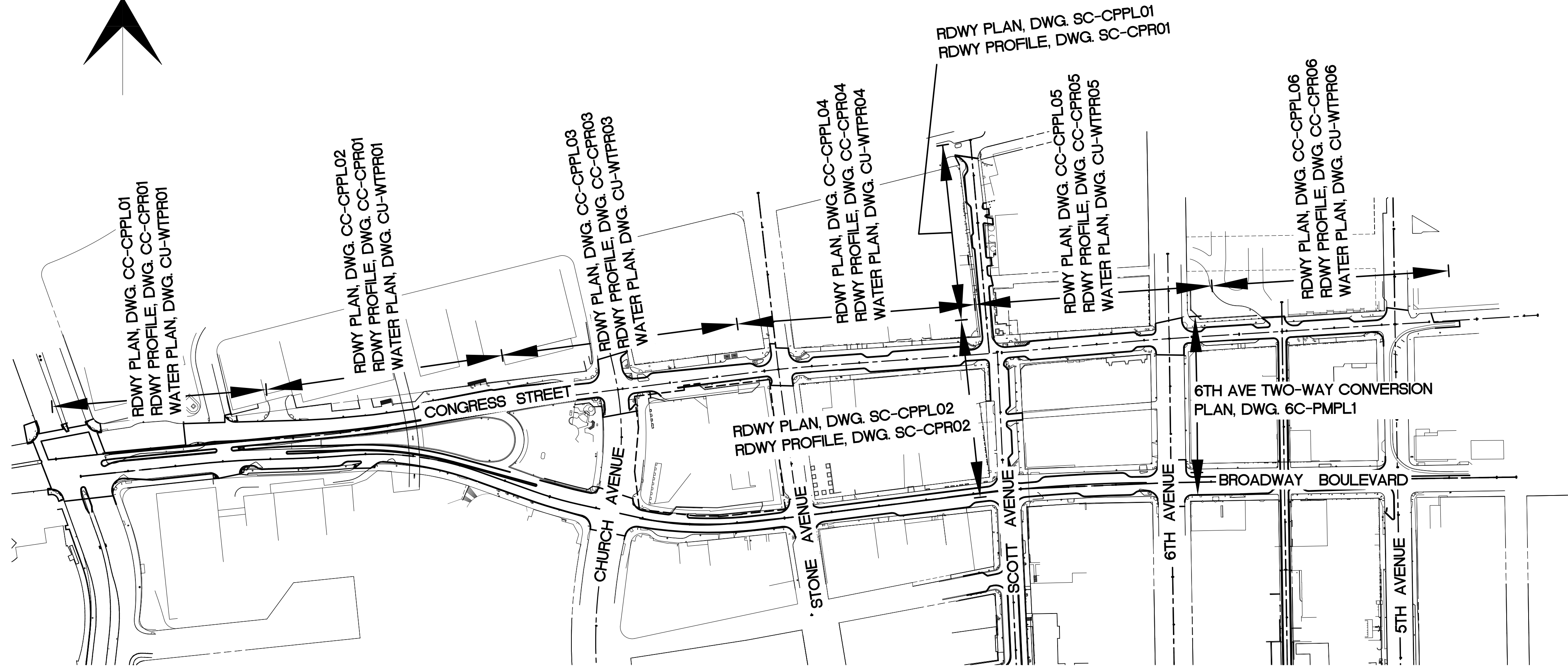
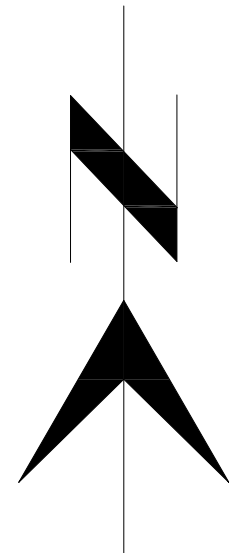


# DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET GRANADA AVE. TO 5TH AVE. PLAN NO. I-2008-035



### LOCATION PLAN

SEC. 12, T14S, R13E  
G. & S.R.M.  
CITY OF TUCSON PIMA COUNTY, ARIZONA  
LATITUDE 32°11'N, LONGITUDE 110°93'W

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156-184	* WATER PLANS
	* 100% SUBMITTAL

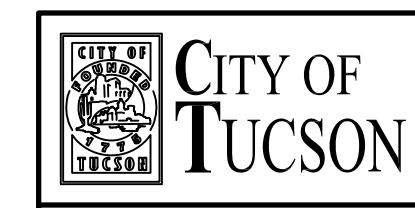
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#### DESIGN BUILD TEAM:

Contractor  
Archer Western Contractors

Design Team  
Stantec Consulting- Lead Civil Engineer  
Wheat Scharf Associates- Landscape/Hardscape  
Kittelson & Associates- Signing/Marking/MOT  
Hines Irrigation Consultants, Inc. - Irrigation



### DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

**P** PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

Approvals	Signatory	Date	Approved _____ 20__	1 OF 184
TPD ENGINEERING				
ENGINEERING LANDSCAPE ARCH				
ENGINEERING ADMINISTRATOR				
				TRANSPORTATION DIRECTOR
				REF. CC-CPGN01 SCALE: 1"=200'
DRWN. BY: VH 20 09	DSGN. BY: DMW 20 09	CHKD. BY: AB 20 09	PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

# GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC IMPROVEMENTS (2003 EDITION) EXCEPT AS MODIFIED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- THE CONTRACTOR SHALL NOT CAUSE DAMAGE TO NATURAL GROWTH WITHIN PRIVATE PROPERTY. ALL WORK SHALL BE DONE WITHIN EASEMENTS AND PUBLIC RIGHT OF WAY.
- ALL STATIONING IS ALONG THE ROADWAY CONSTRUCTION CENTERLINE.
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL BLUE STAKE (1-800-782-5348) TWO (2) FULL WORKING DAYS PRIOR TO CONSTRUCTION. THE PLAN LOCATION OF UTILITIES SHOWN ARE APPROXIMATE, BASED ON AVAILABLE RECORDS AND DESIGN BLUE STAKE MARKERS. NEITHER THE OWNER NOR THE ENGINEER CAN GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITIES SHOWN. EXISTING UTILITIES AND OTHER FACILITIES HAVE BEEN LOCATED ON THE PLANS FROM FIELD SURVEYS, EXISTING MAPS AND OTHER CURRENT PLANS WITHIN THE AREA OF THIS PROJECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND / OR ELEVATION OF ALL EXISTING UTILITIES WHICH PERTAIN TO AND AFFECT THE CONSTRUCTION OF THIS PROJECT.
- FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION.
- THE CONTRACTOR IS TO PROVIDE AND MAINTAIN CONSTRUCTION TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- REMOVAL OF CACTI AND OTHER NATIVE PLANTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA NATIVE PLANT LAW, SRS CHAPTER 7, JANUARY 1991.
- ALL WATER VALVE BOXES, STORM DRAIN, SEWER AND OTHER UTILITY MANHOLES WITHIN THE AREAS OF GRADING OR PAVING SHALL BE BROUGHT FLUSH TO FINISH GRADE. ALL SEWER STRUCTURE ADJUSTMENTS SHALL BE IN CONFORMANCE WITH COT STANDARD DETAILS WWM 304, 305, AND 306 AS APPLICABLE.
- ALL SANITARY SEWER MANHOLES REQUIRING FRAME ELEVATION ADJUSTMENTS SHALL BE PROTECTED WITH A TEMPORARY MANHOLE CHANNEL COVER PER COT STANDARD DETAIL WWM-307.
- CURB RADII ARE MEASURED FROM FACE OF CURB PER PIMA COUNTY/COT STANDARD DETAIL 209.
- WHEN MATCHING EXISTING PAVEMENT OR CURB AND GUTTER, THE CONTRACTOR MUST VERIFY EXISTING ELEVATIONS TO ENSURE PROPER DRAINAGE AND GRADES. ANY DISCREPANCIES WITH THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PLACING CONCRETE.
- IN ALL CASES WHEN MATCHING EXISTING PAVEMENT THE CONTRACTOR SHALL SAWCUT AND TACK THE EXISTING PAVEMENT PRIOR TO JOINING THE NEW ASPHALT PAVEMENT.
- CROSS SLOPES, RAMP SLOPES AND LANDING DIMENSIONS FOR ALL NEW SIDEWALK SHALL BE INSTALLED PER ADA GUIDELINES AND IN ACCORDANCE WITH THE DETAILS IN COT STANDARD DETAIL 200.
- THE CONTRACTOR SHALL REPLACE ALL EXISTING SURVEY MONUMENTS IN THIS PROJECT. SECTION CORNERS OR 1/4 SECTION CORNERS SHALL BE IN CONFORMANCE WITH COT STANDARD DETAIL 103, SHEET 2 OF 3. ALL OTHERS SHALL BE IN CONFORMANCE WITH COT STANDARD DETAIL 103, SHEET 1 OF 3.
- THE BASIS OF ELEVATION FOR THIS PROJECT IS THE USGS BCSM IN MARBLE FOUNDATION OF US COURT HOUSE #55 EAST BROADWAY SAID ELEVATION BEING 2390.72 (NAVD88).
- THE BASIS OF BEARING FOR THE PROJECT IS THE BEARING PROVIDED BY CITY OF TUCSON SURVEY BETWEEN THE INTERSECTIONS OF SCOTT AVENUE AND 6TH AVENUE WITH CONGRESS STREET, SAID BEARING BEING N 86°08'12" E.
- STATIONS AND OFFSETS FOR ALL CATCH BASINS ARE TO THE CENTER OF THE CATCH BASIN SUMP.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS IN THE WORK AREA WHICH HAVE BEEN REMOVED OR DAMAGED DURING THE COURSE OF CONSTRUCTION. ALL REPAIR, REPLACEMENT OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- WHILE ADJUSTING THE MANHOLE TO FINISHED GRADE, IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT RINGS AND COVERS ARE CLEANED OF ANY AND ALL ATTACHED MATERIALS (ASPHALT, CEMENT, ETC.), AND ENSURE THAT ANY VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS. IF THE FRAME AND COVER ARE DAMAGED AND CANNOT BE COMPLETELY CLEANED, THEN A NEW FRAME AND COVER IS TO BE PUT INTO PLACE, AND COSTS ASSOCIATED WITH THESE ACTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SPECIFICATIONS FOR THE NEW RINGS AND COVERS CAN BE OBTAINED BY CALLING FIELD ENGINEERING AT 740-2651.
- IMMEDIATELY REPORT ANY RELEASE OF SEWAGE, AND/OR DAMAGE TO OR THE DROPPING OF DEBRIS INTO THE PUBLIC SANITARY SEWAGE CONVEYANCE SYSTEM TO EITHER PCWMD FIELD ENGINEERING (740-2651) OR PCRWRD FIELD OPERATIONS (326-4333). ON WEEKENDS HOLIDAYS, OR BETWEEN 5:00 P.M. AND 8:00 A.M. IMMEDIATELY CALL THE PIMA COUNTY SHERIFF COMMUNICATION CENTER AT 295-4595 OR 791-4911 AND REQUEST A PCWMD REPRESENTATIVE 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 SEWER SYSTEM, FOR ALL EXPENSES TO MITIGATE THE RELEASE AND TO DISINFECT THE RELEASE AREA, AND FOR ANY REGULATORY PENALTIES LEVELED 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 THE PCRWRD FIELD ENGINEERING MANAGER.
- 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, AT NO EXPENSE TO THE PROPERTY OWNER OR PIMA COUNTY REGIONAL WASTEWATER RECLAMATION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL SEWER RELATED WORK, AND SHALL BRING ANY CONFLICT TO THE ATTENTION OF PCRWRD PRIOR TO START OF ANY SEWER RELATED CONSTRUCTION.

- THE CONTRACTOR SHALL HAVE A COPY OF PCRWRD SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR SHALL MAKE SURE ALL MANHOLE LIDS AND MANHOLE PICK HOLES ARE CLEAN AND FREE OF ANY CONSTRUCTION MATERIAL, DEBRIS, AND/OR OBSTRUCTION PRIOR TO PCRWRD ISSUING THE FINAL INSPECTION CERTIFICATION FOR THE PROJECT.
- THE CONTRACTOR SHALL MAKE SURE ALL CONCRETE AND/OR MORTAR COLLARS ARE BROUGHT UP TO WITHIN 0.2 FT FROM THE TOP OF THE MANHOLE RING, GIVEN FULL CURING TIME, AND PATCHED WITH ASPHALT HOT MIX PAVEMENT PER WWM STANDARD DETAIL 304, 305, OR 306 AS APPLICABLE. ALTERNATIVES WILL BE CONSIDERED BY PCRWR/FE ON A CASE BY CASE BASIS.
- THE CONTRACTOR SHALL PERFORM ALL WORK PER WWM STANDARD DETAIL 304-307. THE CONTRACTOR SHALL REMOVE ALL DEBRIS THAT ENTERS ANY MANHOLE DURING THE CONSTRUCTION PROCESS. FAILURE FROM THE CONTRACTOR TO PROMPTLY REMOVE DEBRIS FROM A MANHOLE SHALL RESULT IN PCRWRD TAKING CORRECTIVE ACTION THAT WILL THEN BE BILLED TO THE CONTRACTOR.
- THE CONTRACTOR SHALL ENSURE ALL MANHOLE LIDS AND RINGS ARE MATCHED, NUMBERED, AND STOCKED IN AN ORDERLY FASHION. LOADING AND "DUMPING" IS NOT ACCEPTABLE. RINGS AND COVERS THAT ARE NOT MATCHED OR ARE BROKEN DUE TO CONTRACTORS NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL STOCKPILE PCRWRD RINGS AND COVERS SEPARATE FROM OTHER UTILITIES COVERS ON THE JOB.
- THE CONTRACTOR SHALL ENSURE PIMA COUNTY RINGS AND COVERS ARE REASONABLY PROTECTED FROM THEFT AND VANDALISM, SUCH AS IN A FENCED AREA OR TRAILER.
- THE CONTRACTOR SHALL VERIFY AND ENSURE THAT DURING OVERLAY OR RESURFACING JOBS, ANY MANHOLE THAT IS OR WILL BE 0.5 INCH BELOW FINAL GRADE OR MORE, IS ADJUSTED OR RECONSTRUCTED TO FINAL GRADE, AT THE DISCRETION OF THE PCRWRD ENGINEER.
- THE CONTRACTOR SHALL REMOVE ASPHALT AND/OR CHIP SEAL FROM FRAMES AND COVERS FROM CURRENT OR PREVIOUS JOBS. IF BUILD-UP IS TOO HEAVY TO BE REMOVED, THE CONTRACTOR SHALL REPLACE FRAME AND COVER. THE CONTRACTOR SHALL USE WATER PROOF FRAME AND COVERS IN ALL GUTTERS AND DRAINAGE AREAS.
- 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. CONTACT SUN TRAN FOR ASSISTANCE AT (520) 623-4301.
- BCSM PER PC/COT STANDARD DETAIL 103, SHEET 1.
- RIGHT OF ENTRY AGREEMENTS WITH INDIVIDUAL PROPERTY OWNERS WILL BE PREPARED TO ADDRESS CONNECTIONS TO EACH PROPERTY. IN SOME CASES, DEMOLITION MAY BE REQUIRED FOR THE PROPOSED CONNECTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT'S (PCRWRD) MANUAL OF ENGINEERING STANDARDS AND PROCEDURES, AND THE PIMA COUNTY / CITY OF TUCSON (PC/COT) STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. SAID MANUALS ARE ON FILE AT THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT OFFICE: 201 N. STONE AVENUE, 8TH FLOOR.
- PC/COT STD. DTL. WWM-106 SHALL APPLY TO THIS PROJECT.
- SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY (PCDEQ) HAS ISSUED A "CERTIFICATE OF CONSTRUCTION AUTHORIZATION" FOR THIS PROJECT. (B) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (740-6369). (C) 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 DAYS (30) PRIOR TO THE PRE-CONSTRUCTION MEETING.
- ENGINEERING DIRECTIVE, ENG2006-09, APPLIES TO ANY PROJECT THAT REQUIRES TRENCHING WITHIN 6' HORIZONTAL, OR 2' VERTICAL, OF AN EXISTING PUBLIC SEWER MAIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO: (A) IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BID. (B) PROVIDE A FLOW MANAGEMENT PLAN, THIRTY DAYS (30) PRIOR TO A PRE-CONSTRUCTION MEETING WITH WASTEWATER FIELD ENGINEERING, PRECEDING ANY WORK THAT MAY AFFECT A LIVE SEWER. REFER TO DETAIL WWM A-5 FOR FLOW MANAGEMENT PLAN REQUIREMENTS. CALL REGIONAL WASTEWATER FIELD ENGINEERING AT (520) 740-2651 REGARDING ALL QUESTIONS INVOLVING PREPARATION OF FLOW MANAGEMENT PLANS.

## EXISTING



## ABBREVIATIONS

P.V.C.P.	POLYVINYL CHLORIDE PIPE	PN	PLAN NUMBER	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
D.I.P.	DUCTILE IRON PIPE	SD.	STANDARD DETAIL	ST	STREET
CA	CEMENT ASBESTOS	(VT.)	VERTICAL	AVE	AVENUE
CI	CAST IRON	(HZ.)	HORIZONTAL	BLVD	BOULEVARD
CU	COPPER	RT.	RIGHT	AC	ASPHALTIC CONCRETE
F.S.	FIRE SERVICE	LT.	LEFT	ABC	AGGREGATE BASE CONCRETE
ARV	AIR RELEASE VALVE	CL	CENTERLINE	MISC	MISCELLANEOUS
B&C	BOX & COVER	L.F.	LINEAR FEET	NTS	NOT TO SCALE
INV.	INVERT	EA.	EACH	STRUCT	STRUCTURAL
CL305/CL350	PIPE CLASSIFICATIONS	ELEV	ELEVATION	SEC	SECTION
QUANT.	QUANTITY	ELV	ELEVATION	ADOT	ARIZONA DEPT. OF TRANSPORTATION
NO	NUMBER	DRWY	DRIVEWAY	RCP	REINFORCED CONCRETE PIPE
MIN	MINIMUM	PVMT	PAVEMENT	PC	POINT OF CURVATURE
TYP	TYPICAL	MAX	MAXIMUM	PT	POINT OF TANGENCY
ROW	RIGHT OF WAY	MOD	MODIFY	OFF	OFFSET
R/W	RIGHT OF WAY	H	HEIGHT	STA	STATION
L	LENGTH	L	LENGTH	SHT	SHEET
D	DEPTH	G	GUTTER	SDWK	SIDEWALK
VERT	VERTICAL	INV	INVERT	DEMO	DEMOLITION
STD	STANDARD	HP	HIGH POINT	DWG	DRAWING
DTL	DETAIL	AP	ANGLE POINT	MH	MANHOLE
PC/COT	PIMA COUNTY/ CITY OF TUCSON			RD	ROOF DRAIN
PC/WWM	PIMA COUNTY/ WASTEWATER MANAGEMENT			FFE	FINISHED FLOOR ELEVATION
S/W	SIDEWALK			U.G.T.	UNDERGROUND TELEPHONE
				FPS	FIRE PROTECTION SERVICE

## GENERAL NOTES

## LEGEND

### CONSTRUCTION NOTE

POWER POLE

FIRE HYDRANT

VALVE, WATER OR GAS AS NOTED

EXISTING SEWER MANHOLE

EXISTING LIGHT POLE

ELECTRIC MANHOLE

TRANSFORMER

TELEPHONE MANHOLE

PARKING METER

BENCHMARK/SURVEY BASIS OF CONTROL

BICYCLE RACK

AC PAVEMENT

CONCRETE PAVEMENT

MONUMENT CENTERLINE

RIGHT-OF-WAY LINE

WATER LINE & VALVE

GAS LINE

UNDERGROUND ELECTRIC LINE

STORM DRAIN LINE AND MANHOLE

OVERHEAD ELECTRIC LINE

FENCE - CHAINLINK

UNDERGROUND TELEPHONE LINE

SANITARY SEWER AND MANHOLE

SEWER MAIN REMOVAL

CATCH BASIN

PARKING KIOSK

## PROPOSED

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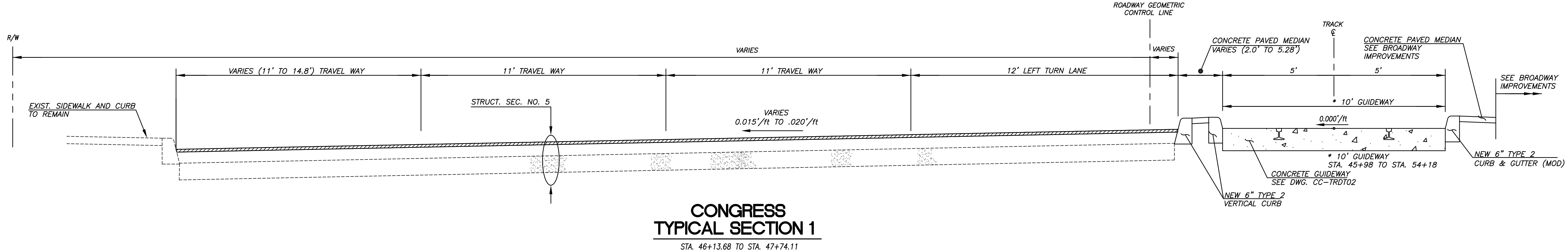
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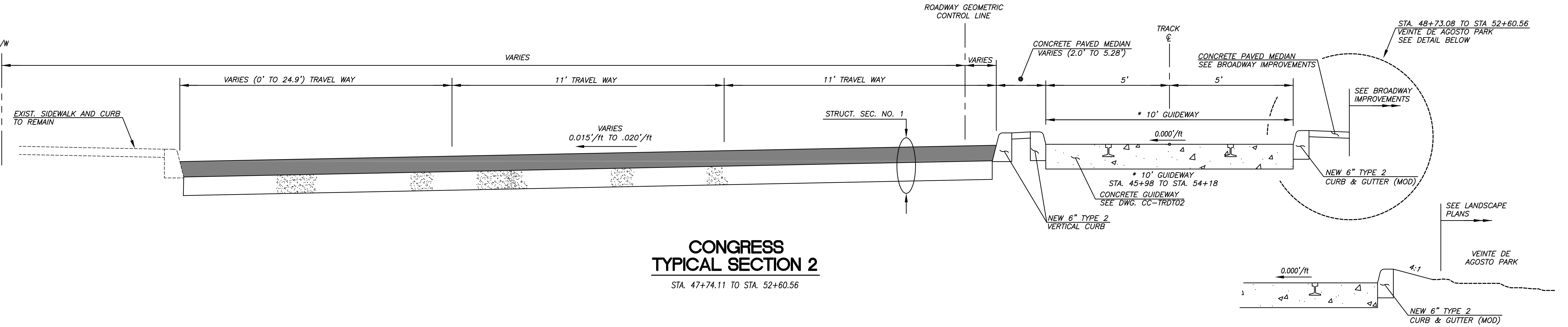
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03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		2 OF 184
DRWN. BY V. HO	REF. CC-CFGN02	SCALE:
DSGN. BY D. MOSEKE, JD, HP	PLAN NO. I-2008-035	
CHKD. BY A. BATT		

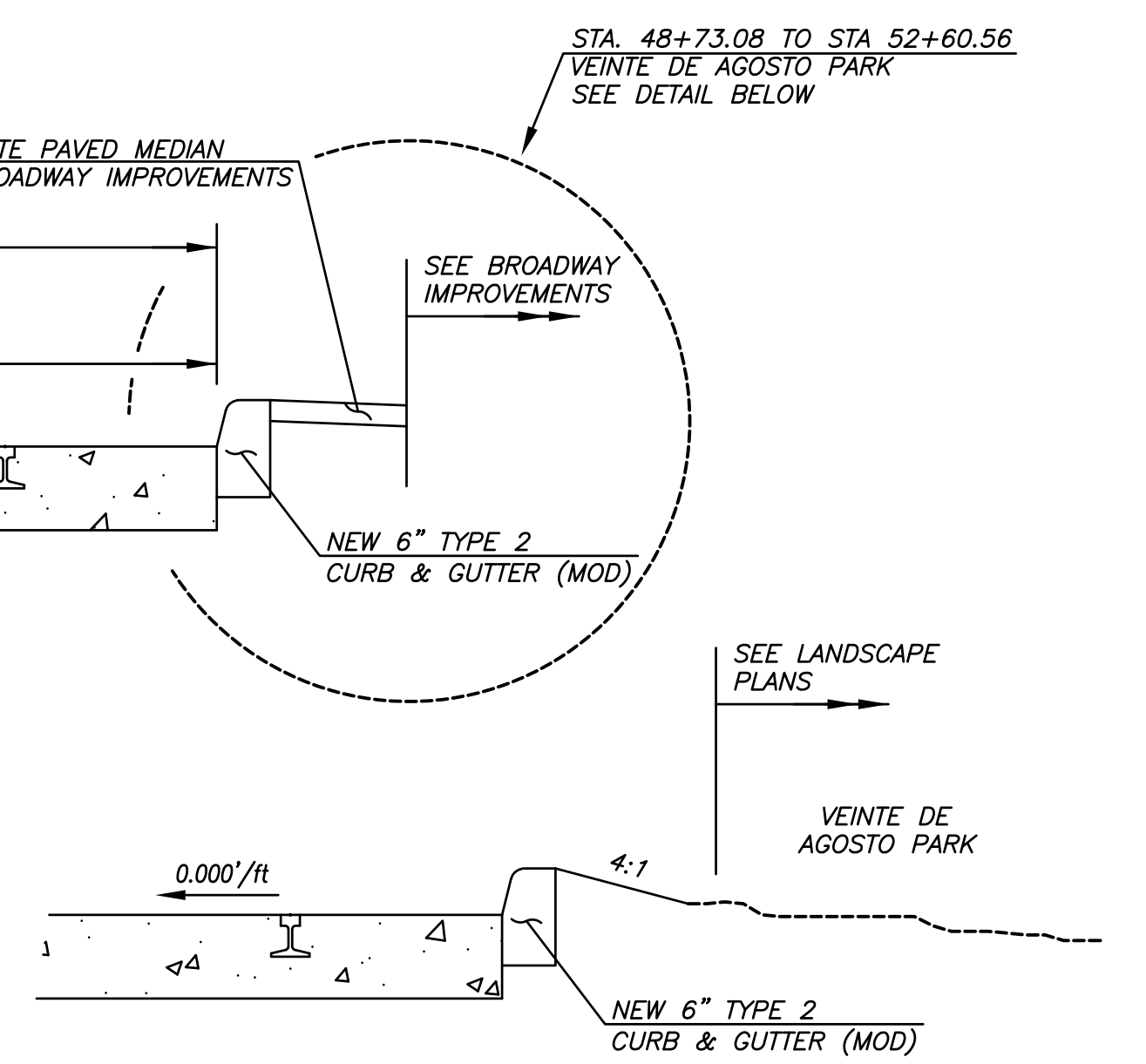
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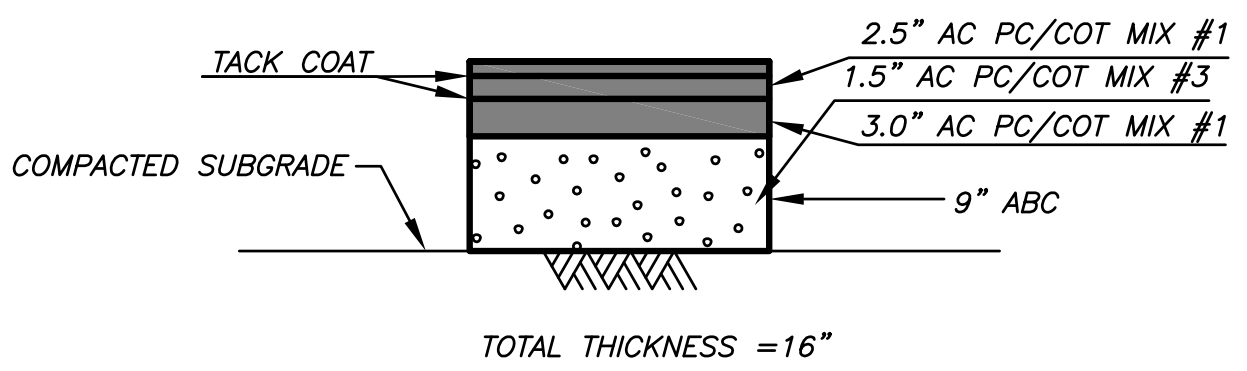
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STA. 46+13.68 TO STA. 47+74.11



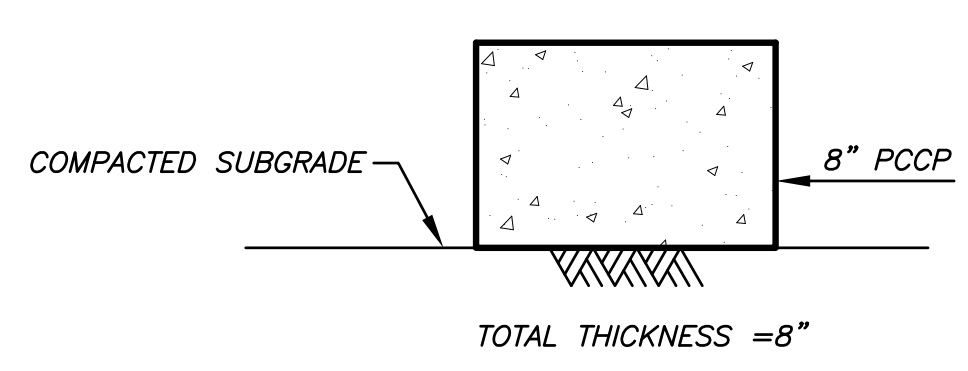
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STA. 47+74.11 TO STA. 52+60.56



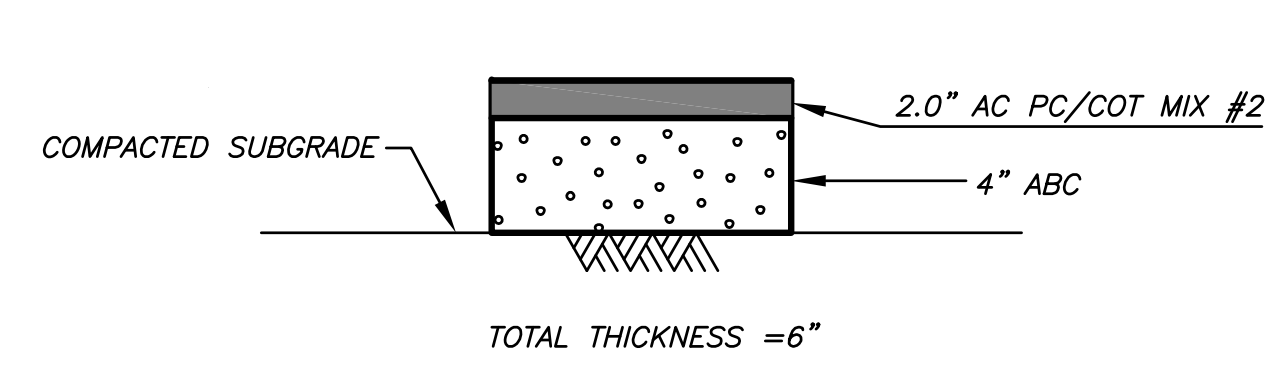
**STA 47+74.11 TO 52+60.56**  
VEINTE DE AGOSTO PARK



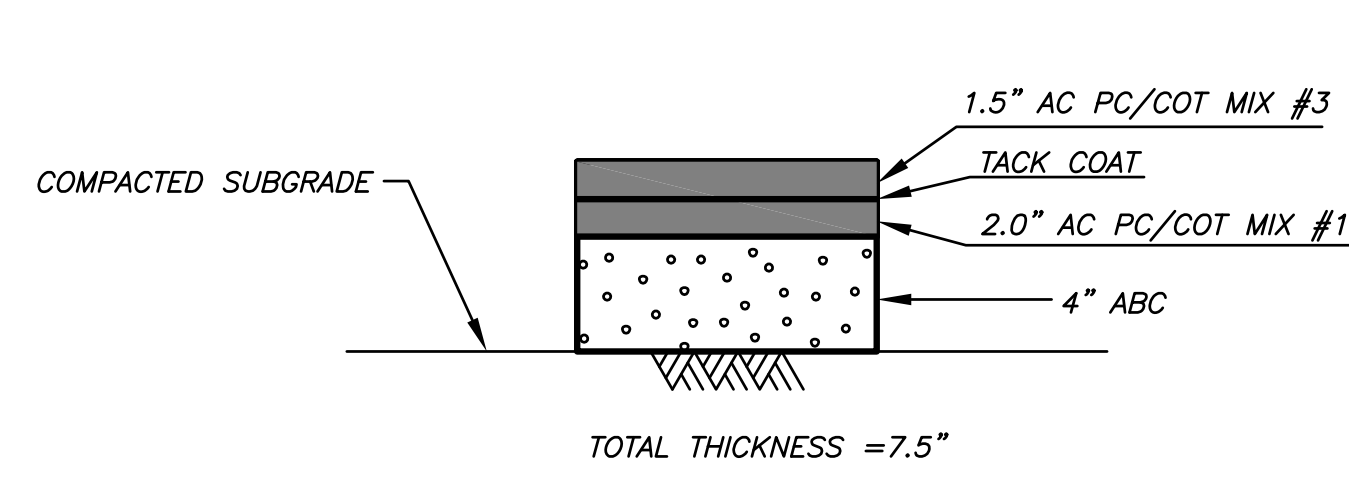
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CONGRESS STREET N.T.S.



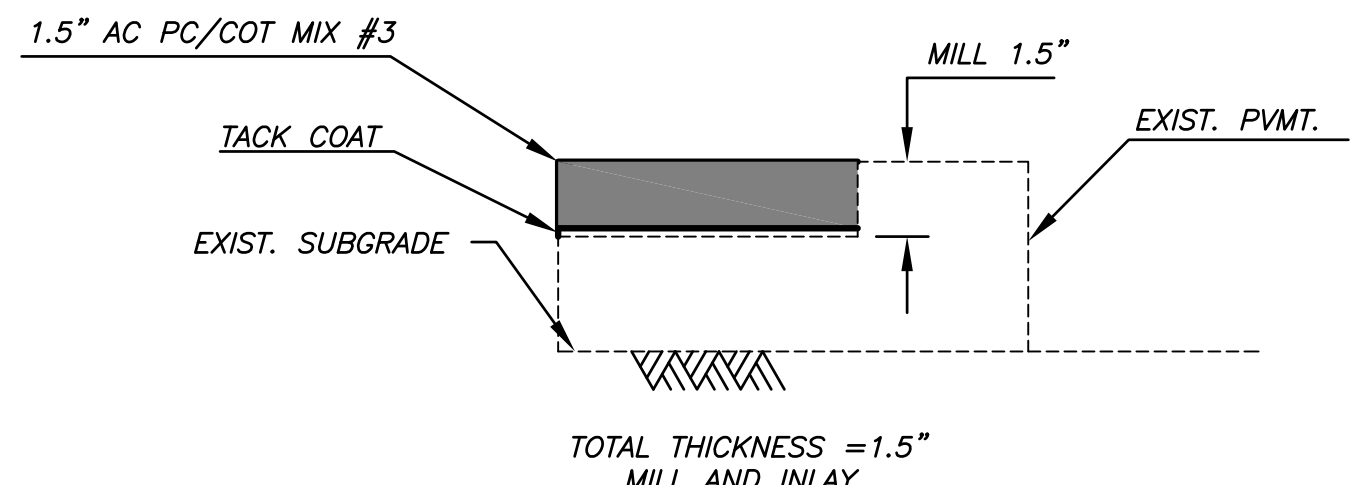
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N.T.S.



**STRUCTURAL SECTION NO. 3**  
MISC. DRIVEWAY PAVEMENT N.T.S.



**STRUCTURAL SECTION NO. 4**  
SCOTT AVENUE N.T.S.



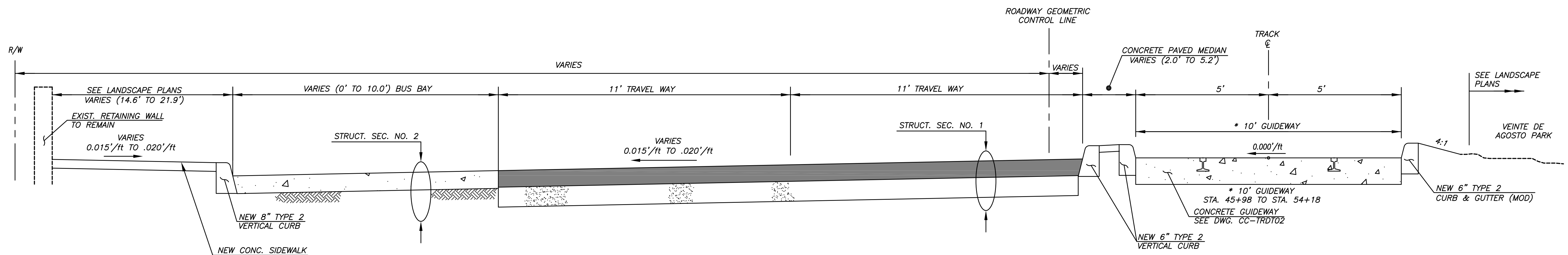
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MILL AND OVERLAY N.T.S.

**TYPICAL SECTIONS**

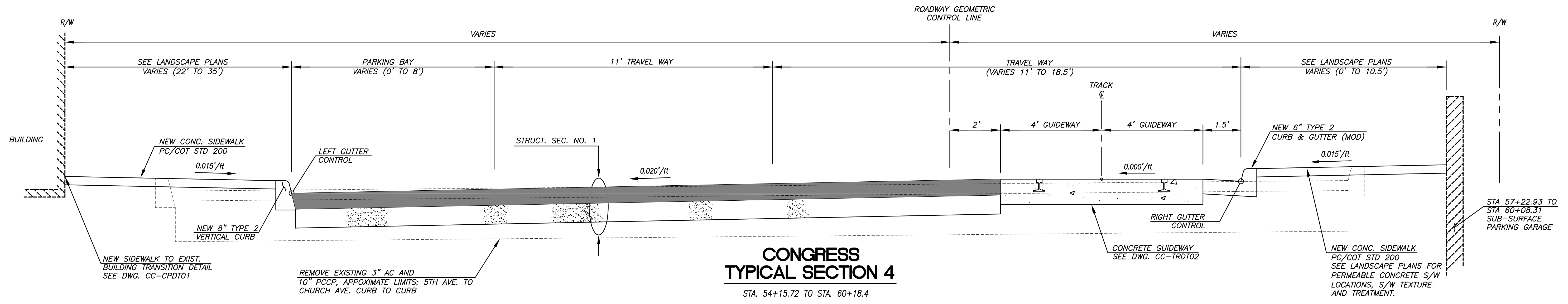
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	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CFGN03 SCALE: PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

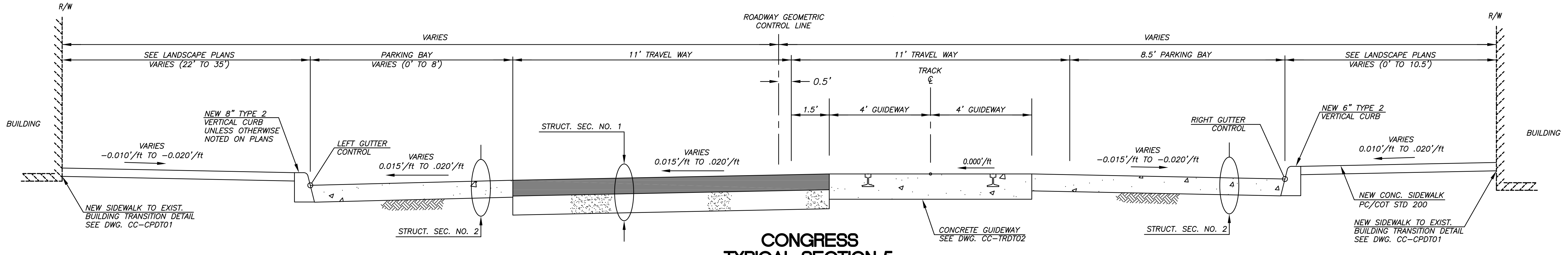
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**CONGRESS  
TYPICAL SECTION 3**  
STA. 52+60.56 TO STA. 54+15.72



**CONGRESS  
TYPICAL SECTION 4**  
STA. 54+15.72 TO STA. 60+18.4



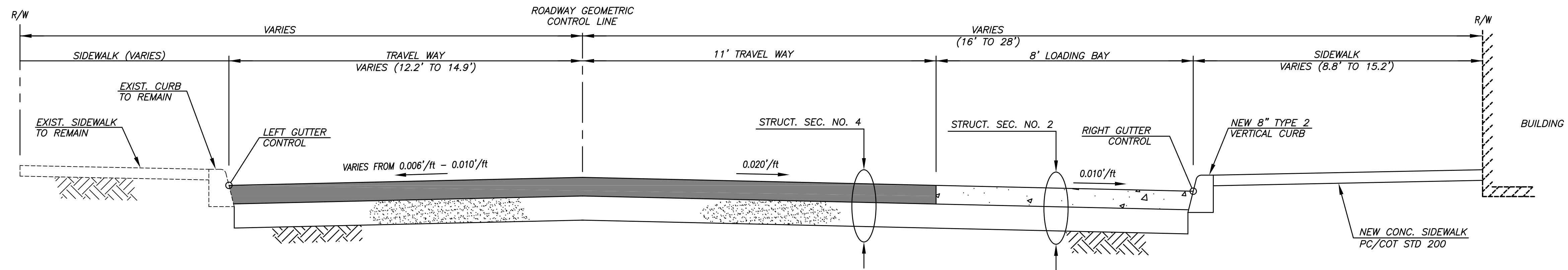
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TYPICAL SECTION 5**  
STA. 60+18.4 TO STA. 71+40.0

**TYPICAL SECTIONS**

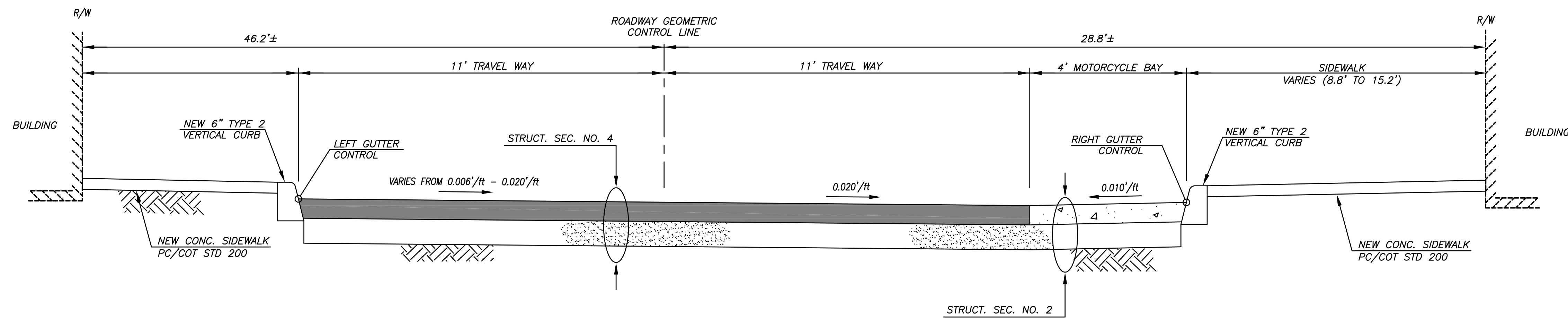
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	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CFGN04 SCALE: _____ PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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**SCOTT AVENUE  
TYPICAL SECTION 1**  
STA. 3+63.7 TO STA. 4+59.8



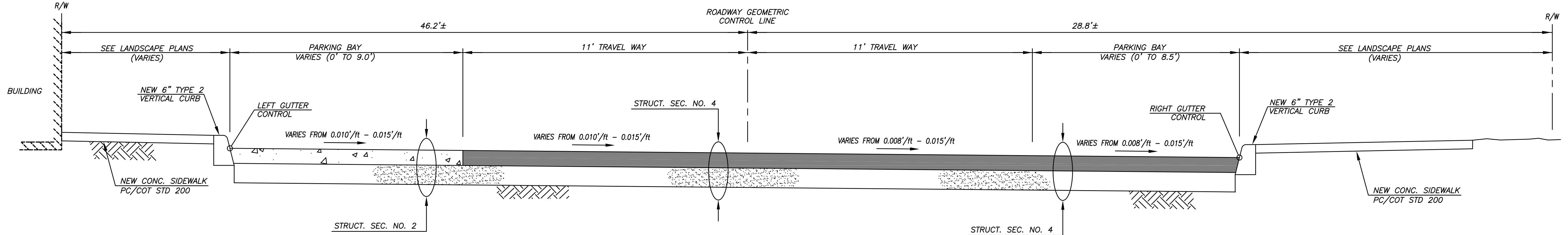
**SCOTT AVENUE  
TYPICAL SECTION 2**  
STA. 4+59.8 TO STA. 7+39.2

**TYPICAL SECTIONS**

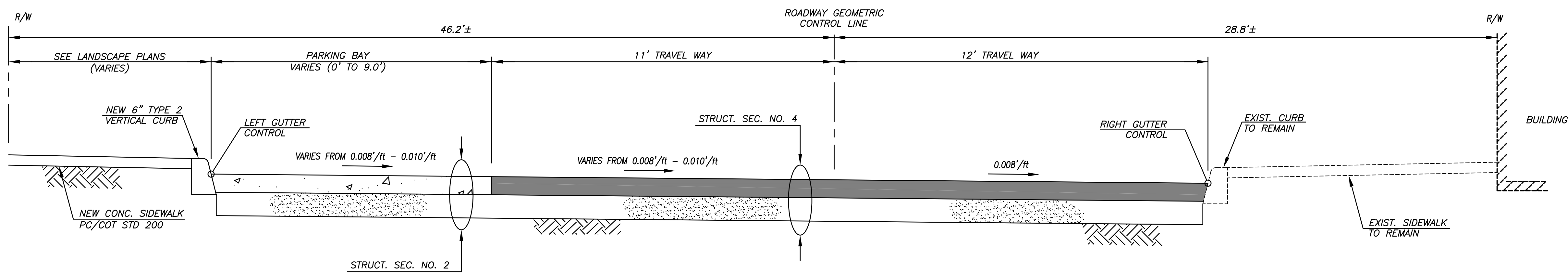
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	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPGN05 SCALE: PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Moseke, Doug  
 Status: - Manual



**SCOTT AVENUE  
TYPICAL SECTION 2**  
STA. 8+00.0 TO STA. 8+75.0



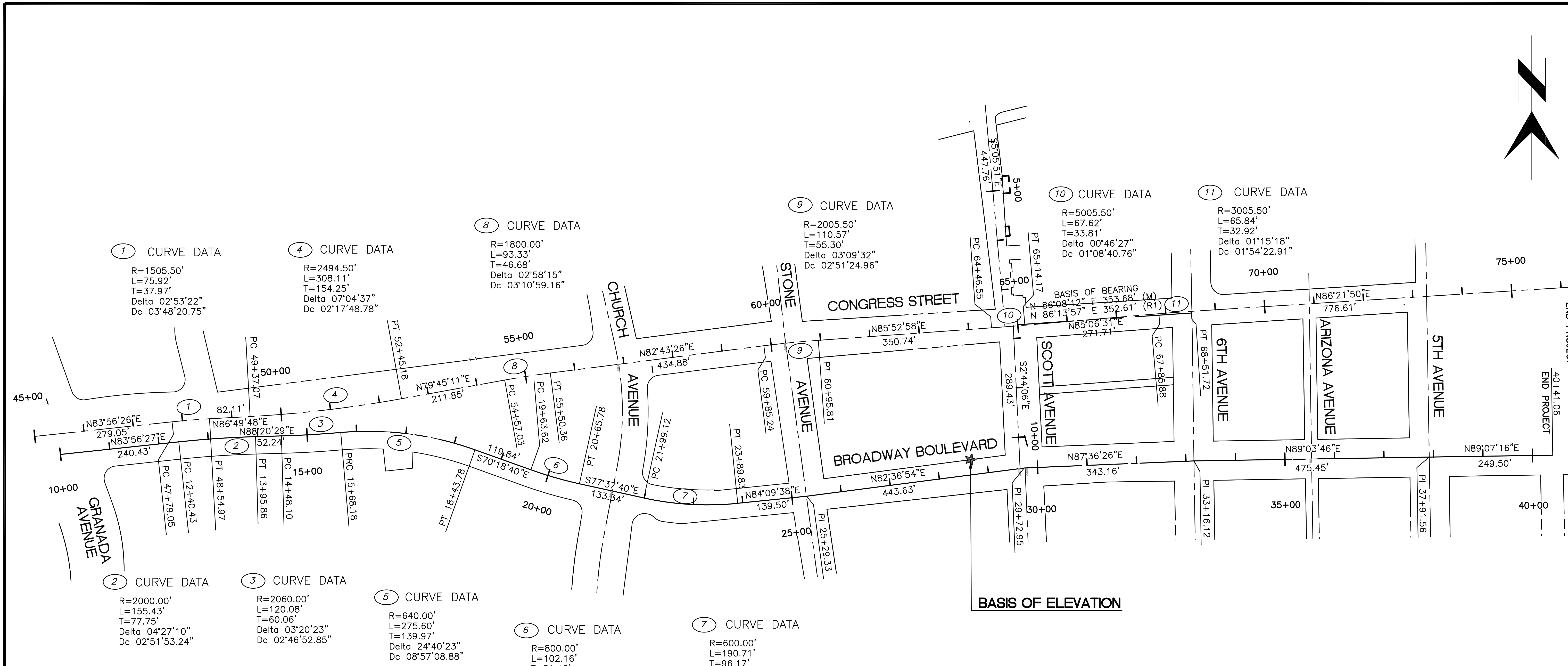
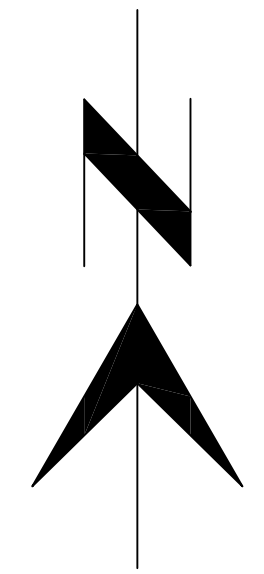
**SCOTT AVENUE  
TYPICAL SECTION 3**  
STA. 8+75.0 TO STA. 10+33.0

**TYPICAL SECTIONS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		6 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPGN06 SCALE: PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 3/9/2009 3:00:07 PM  
 Moseke, Doug  
 Shrike - Moseke



**1 CURVE DATA**  
 R=1505.50'  
 L=75.92'  
 T=37.97'  
 Delta 02°53'22"  
 Dc 03°48'20.75"

**4 CURVE DATA**  
 R=2494.50'  
 L=308.11'  
 T=154.25'  
 Delta 07°04'37"  
 Dc 02°17'48.78"

**8 CURVE DATA**  
 R=1800.00'  
 L=93.33'  
 T=46.68'  
 Delta 02°58'15"  
 Dc 03°10'59.16"

**9 CURVE DATA**  
 R=2005.50'  
 L=110.57'  
 T=55.30'  
 Delta 03°09'32"  
 Dc 02°51'24.96"

**10 CURVE DATA**  
 R=5005.50'  
 L=67.62'  
 T=33.81'  
 Delta 00°46'27"  
 Dc 01°08'40.76"

**11 CURVE DATA**  
 R=3005.50'  
 L=65.84'  
 T=32.92'  
 Delta 01°15'18"  
 Dc 01°54'22.91"

**2 CURVE DATA**  
 R=2000.00'  
 L=155.43'  
 T=77.75'  
 Delta 04°27'10"  
 Dc 02°51'53.24"

**3 CURVE DATA**  
 R=2060.00'  
 L=120.08'  
 T=60.06'  
 Delta 03°20'23"  
 Dc 02°46'52.85"

**5 CURVE DATA**  
 R=640.00'  
 L=275.60'  
 T=139.97'  
 Delta 24°40'23"  
 Dc 08°57'08.88"

**6 CURVE DATA**  
 R=800.00'  
 L=102.16'  
 T=51.15'  
 Delta 07°19'00"  
 Dc 07°09'43.10"

**7 CURVE DATA**  
 R=600.00'  
 L=190.71'  
 T=96.17'  
 Delta 18°12'42"  
 Dc 09°32'57.47"

**BASIS OF ELEVATION**

**NOTES:**

1. THE BASIS OF ELEVATION FOR THIS PROJECT IS THE USGS BCSM IN MARBLE FOUNDATION OF US COURT HOUSE #55 EAST BROADWAY SAID ELEVATION BEING 2390.72 (NAVD88).
2. THE BASIS OF BEARING FOR THE PROJECT IS THE BEARING PROVIDED BY CITY OF TUCSON SURVEY BETWEEN THE INTERSECTIONS OF SCOTT AVENUE AND 6TH AVENUE WITH CONGRESS STREET, SAID BEARING BEING 86°08'12"E.

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 Shrike - Momo.db  
 Moseke, Doug



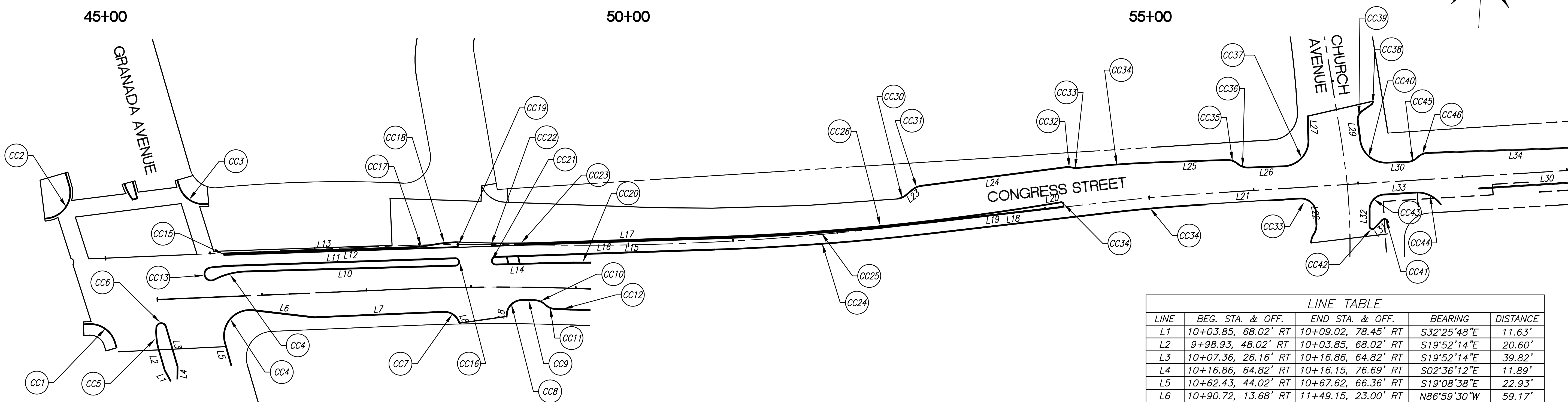
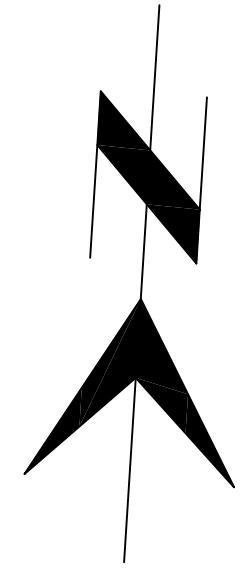
USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STATUTE OR CONTRACT. THE ENGINEER AND SURVEYOR SHALL HAVE NO LIABILITY TO ANY USER OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**PRELIMINARY**  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

**SURVEY CONTROL GEOMETRIC LAYOUT PLAN**

<b>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT</b> <b>CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</b>		<b>7</b> <b>OF</b> <b>184</b>
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CFGN07 SCALE: 1"=100' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 59+00  
SEE DWG. CC-CFGN09

CURVE TABLE

CURVE	BEG. STA. & OFF.	END STA. & OFF.	RADIUS	DELTA	TANGENT	LENGTH
CC1	9+33.73, 20.31' RT	9+58.13, 39.35' RT	25.00'	76°28'42"	19.70'	33.37'
CC2	44+46.34, 40.13' LT	44+68.61, 71.00' LT	25.00'	99°09'26"	29.35'	43.27'
CC3	45+72.81, 66.30' LT	45+98.03, 47.31' LT	25.00'	78°18'42"	20.36'	34.17'
CC4	10+62.43, 44.02' RT	10+90.72, 13.68' RT	25.00'	112°09'08"	37.17'	48.94'
CC5	9+97.53, 26.81' RT	9+98.93, 48.02' RT	61.00'	20°04'05"	10.79'	21.37'
CC6	9+97.53, 26.81' RT	10+07.36, 26.16' RT	5.00'	159°55'55"	28.26'	13.96'
CC7	12+73.39, 22.75' RT	12+87.50, 31.49' RT	15.00'	66°26'05"	9.82'	17.39'
CC8	13+33.82, 26.42' RT	13+49.01, 12.00' RT	15.00'	87°59'17"	14.48'	23.04'
CC9	13+49.01, 12.00' RT	13+60.99, 12.00' RT	1988.00'	0°20'35"	5.95'	11.91'
CC10	13+60.99, 12.00' RT	13+71.33, 16.03' RT	15.00'	43°07'44"	5.93'	11.29'
CC11	13+71.33, 16.03' RT	13+81.55, 20.00' RT	15.00'	42°32'23"	5.84'	11.14'
CC12	13+81.55, 20.00' RT	13+95.86, 20.00' RT	1980.00'	0°24'36"	7.08'	14.16'
CC13	46+00.16, 11.85' RT	46+03.03, 25.21' RT	7.00'	205°12'54"	31.30'	25.07'
CC14	46+03.03, 25.21' RT	46+33.73, 18.71' RT	71.00'	25°32'12"	16.09'	31.64'
CC15	46+13.68, 0.03' LT	46+13.66, 1.97' RT	1.00'	180°00'00"	INFINITE'	3.14'
CC16	48+34.41, 12.89' RT	48+34.63, 20.58' RT	3.85'	180°00'00"	INFINITE'	12.08'
CC17	47+90.79, 1.48' RT	48+12.91, 0.30' LT	150.00'	8°28'49"	11.12'	22.20'
CC18	48+12.91, 0.30' LT	48+35.19, 2.41' LT	150.00'	8°28'49"	11.12'	22.20'
CC19	48+35.19, 2.41' LT	48+35.12, 2.87' RT	2.64'	180°00'00"	INFINITE'	8.29'
CC20	49+14.65, 17.84' RT	50+45.23, 21.23' RT	1500.00'	5°01'25"	65.80'	131.52'
CC21	48+73.08, 11.43' RT	48+73.39, 19.33' RT	3.95'	180°00'00"	INFINITE'	12.42'
CC22	48+70.30, 1.51' LT	48+70.37, 1.53' RT	1.52'	180°00'00"	INFINITE'	4.79'
CC23	48+70.30, 1.51' LT	49+16.04, 2.37' LT	1000.00'	2°37'17"	22.88'	45.75'
CC24	50+82.40, 6.93' RT	52+86.90, 10.00' RT	2505.00'	4°41'26"	102.59'	205.08'
CC25	50+82.56, 3.06' LT	52+86.91	2495.00'	4°41'26"	102.19'	204.26'
CC26	50+82.60, 5.06' LT	54+00.33, 4.58' LT	2493.00'	7°17'54"	159.00'	317.56'
CC27	54+15.60, 5.28' LT	54+15.72	2.64'	182°36'28"	115.99'	8.41'
CC28	54+60.98, 10.00' RT	55+38.70, 10.16' RT	1490.50'	2°58'15"	38.65'	77.29'
CC29	56+37.25, 10.20' RT	56+52.20, 24.02' RT	15.00'	85°30'23"	13.87'	22.39'

CURVE TABLE

CURVE	BEG. STA. & OFF.	END STA. & OFF.	RADIUS	DELTA	TANGENT	LENGTH
CC30	52+60.56, 26.08' LT	52+69.58, 28.56' LT	15.00'	36°19'21"	4.92'	9.51'
CC31	52+76.40, 33.09' LT	52+84.49, 35.58' LT	15.00'	32°48'18"	4.42'	8.59'
CC32	54+24.48, 37.40' LT	54+30.14, 36.37' LT	15.00'	22°07'20"	2.93'	5.79'
CC33	54+30.14, 36.37' LT	54+35.50, 35.33' LT	15.00'	20°58'17"	2.78'	5.49'
CC34	54+35.50, 35.33' LT	55+08.88, 32.88' LT	1019.00'	4°11'01"	37.22'	74.40'
CC35	55+76.11, 30.44' LT	55+86.19, 26.15' LT	15.00'	42°50'00"	5.88'	11.21'
CC36	55+86.19, 26.15' LT	55+96.27, 21.86' LT	15.00'	42°50'00"	5.88'	11.21'
CC37	56+29.99, 20.91' LT	56+55.68, 45.11' LT	25.00'	89°48'41"	24.92'	39.19'
CC38	57+17.34, 75.15' LT	57+18.77, 77.88' LT	3.00'	61°48'45"	1.80'	3.24'
CC39	57+03.24, 60.33' LT	57+08.02, 69.46' LT	10.00'	62°02'02"	6.01'	10.83'
CC40	57+04.37, 41.61' LT	57+28.60, 18.12' LT	25.00'	84°54'00"	22.87'	37.04'
CC41	57+20.81, 36.42' RT	57+25.85, 38.82' RT	3.00'	137°04'24"	7.63'	7.18'
CC42	57+08.03, 41.28' RT	57+13.07, 43.66' RT	3.00'	136°44'00"	7.56'	7.16'
CC43	57+09.03, 25.54' RT	57+24.00, 11.50' RT	15.00'	86°20'05"	14.07'	22.60'
CC44	57+54.30, 11.50' RT	57+77.86, 24.53' RT	28.00'	57°28'25"	15.35'	28.09'
CC45	57+47.99, 17.55' LT	57+58.30, 21.26' LT	15.00'	42°50'00"	5.88'	11.21'
CC46	57+58.30, 21.26' LT	57+68.61, 24.96' LT	15.00'	42°50'00"	5.88'	11.21'
CC47	59+69.99, 19.10' LT	59+80.07, 14.80' LT	15.00'	42°50'53"	5.89'	11.22'
CC48	59+80.07, 14.80' LT	59+90.52, 10.50' LT	15.00'	44°21'50"	6.12'	11.61'
CC49	59+90.52, 10.50' LT	59+93.91, 10.50' LT	2016.50'	0°05'49"	1.71'	3.41'
CC50	59+93.91, 10.50' LT	60+18.46, 36.22' LT	25.00'	91°17'36"	25.57'	39.83'
CC51	59+85.21, 11.50' RT	59+99.00, 11.50' RT	1994.50'	0°23'38"	6.85'	13.71'
CC52	59+99.00, 11.50' RT	60+06.79, 13.04' RT	20.00'	22°46'07"	4.03'	7.95'
CC53	60+06.79, 13.04' RT	60+13.33, 23.12' RT	10.50'	69°34'57"	7.30'	12.75'

LINE TABLE

LINE	BEG. STA. & OFF.	END STA. & OFF.	BEARING	DISTANCE
L1	10+03.85, 68.02' RT	10+09.02, 78.45' RT	S32°25'48"E	11.63'
L2	9+98.93, 48.02' RT	10+03.85, 68.02' RT	S19°52'14"E	20.60'
L3	10+07.36, 26.16' RT	10+16.86, 64.82' RT	S19°52'14"E	39.82'
L4	10+16.86, 64.82' RT	10+16.15, 76.69' RT	S02°36'12"E	11.89'
L5	10+62.43, 44.02' RT	10+67.62, 66.36' RT	S19°08'38"E	22.93'
L6	10+90.72, 13.68' RT	11+49.15, 23.00' RT	N86°59'30"W	59.17'
L7	11+49.15, 23.00' RT	12+73.39, 22.75' RT	N83°56'27"E	123.87'
L8	12+87.50, 31.49' RT	12+88.73, 34.10' RT	S29°37'27"E	2.88'
L9	13+33.73, 28.57' RT	13+33.82, 26.42' RT	S00°58'29"E	2.16'
L10	46+33.73, 18.71' RT	48+34.63, 20.58' RT	N84°45'55"E	200.15'
L11	46+00.16, 11.85' RT	48+34.41, 12.89' RT	N84°26'37"E	233.77'
L12	46+13.66, 1.97' RT	48+35.12, 2.87' RT	N84°26'37"E	221.35'
L13	46+13.68, 0.03' LT	47+90.79, 1.48' RT	N84°26'37"E	177.11'
L14	48+73.39, 19.33' RT	49+14.65, 17.84' RT	N84°45'55"E	41.29'
L15	48+73.08, 11.43' RT	50+82.40, 6.93' RT	N84°26'37"E	209.82'
L16	48+70.37, 1.53' RT	50+82.56, 3.06' LT	N84°26'37"E	212.12'
L17	49+16.04, 2.37' LT	50+82.60, 5.06' LT	N84°26'37"E	166.32'
L18	52+86.90, 10.00' RT	54+60.98, 10.00' RT	N79°45'11"E	174.05'
L19	52+86.91	54+15.72	N79°45'11"E	128.82'
L20	54+00.33, 4.58' LT	54+15.60, 5.28' LT	S77°08'43"W	15.29'
L21	55+38.70, 10.16' RT	56+37.25, 10.20' RT	N82°43'26"E	98.49'
L22	56+52.20, 24.02' RT	56+52.64, 29.63' RT	S11°46'11"E	5.62'
L23	52+69.58, 28.56' LT	52+76.40, 33.09' LT	N46°12'21"E	8.18'
L24	52+84.49, 35.58' LT	54+24.48, 37.40' LT	N79°00'39"E	140.00'
L25	55+08.88, 32.88' LT	55+76.11, 30.44' LT	S84°20'43"W	68.01'
L26	55+96.27, 21.86' LT	56+29.99, 20.91' LT	S84°20'43"W	33.73'
L27	56+55.68, 45.11' LT	56+56.39, 67.69' LT	N05°27'58"W	22.59'
L28	57+08.02, 69.46' LT	57+17.34, 75.15' LT	N51°19'30"E	10.92'
L29	57+03.24, 60.33' LT	57+04.37, 41.61' LT	S10°42'32"E	18.75'
L30	57+28.60, 18.12' LT	57+47.99, 17.55' LT	S84°23'28"W	19.40'
L31	57+13.07, 43.66' RT	57+20.81, 36.42' RT	S39°39'21"W	10.60'
L32	57+09.03, 25.54' RT	57+08.03, 41.28' RT	N03°36'39"W	15.77'
L33	57+24.00, 11.50' RT	57+54.30, 11.50' RT	N82°43'26"E	30.30'
L34	57+68.61, 24.96' LT	59+69.99, 19.10' LT	S84°23'28"W	201.46'
L35	60+18.46, 36.22' LT	60+17.82, 55.34' LT	S08°19'15"E	19.13'
L36	58+15.08, 11.50' RT	59+85.21, 11.50' RT	N82°43'26"E	170.14'

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Shane - Manual  
Kaden, Doug

### CONGRESS STREET GEOMETRIC LAYOUT PLAN

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

**LEGEND**  
L - CURB LINE  
CC - CURB CURVE INFORMATION

**J** TWO WORKING DAYS BEFORE YOU DO CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER CALL COLLECT

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS PREPARED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STATICS CONSULTING AND STATICS CONSULTING SHALL HAVE NO LIABILITY TO ANY ONE OF THE INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**PRELIMINARY**  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL



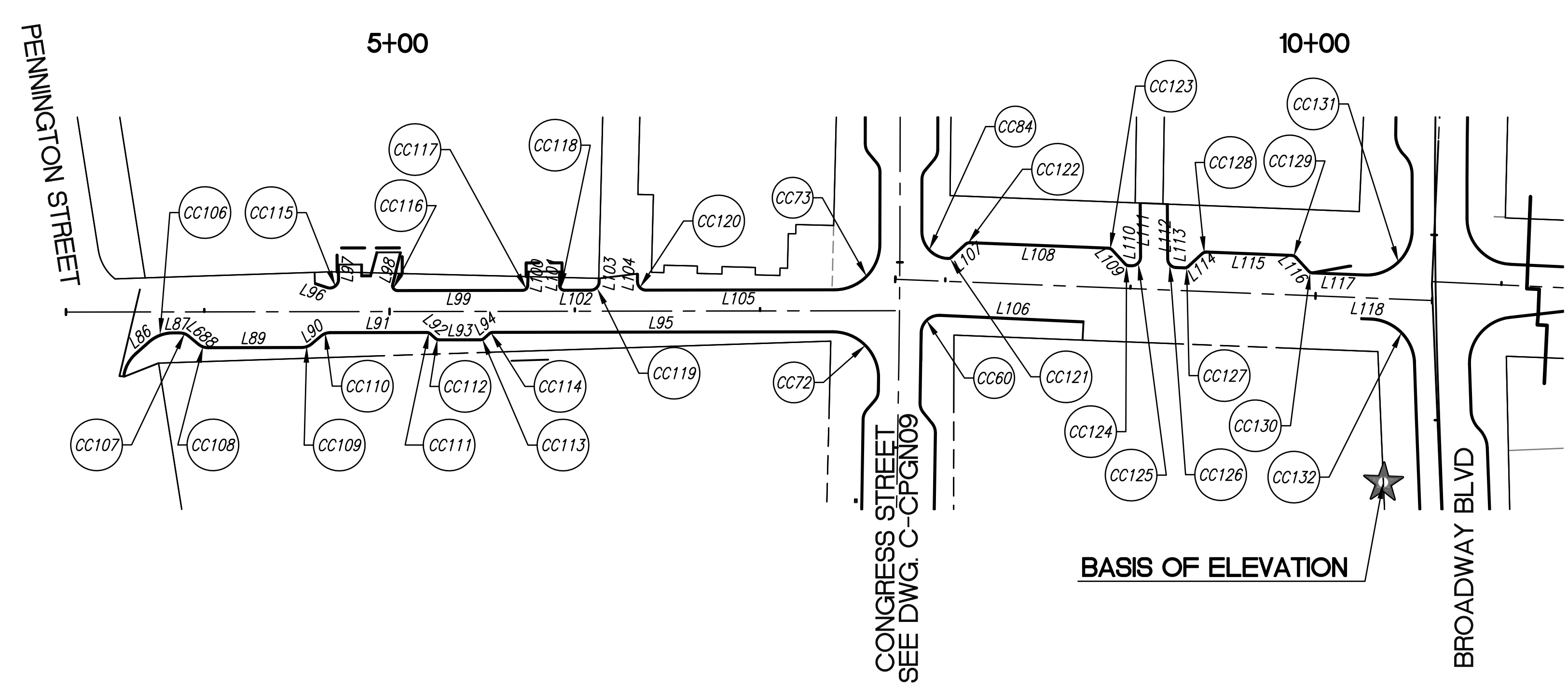
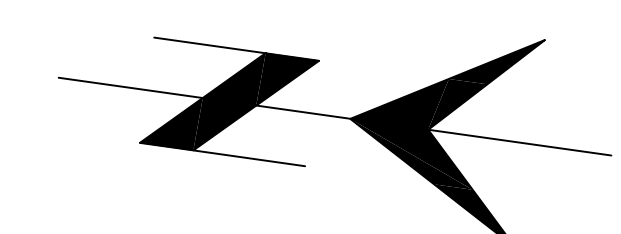
DRWN. BY V. HO  
DSGN. BY D. MOSEKE, JD, HP  
CHKD. BY A. BATT

REF. CC-CFGN08 SCALE: 1"=50'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.







CURB LINE TABLE				
LINE	BEG. STA. & OFF.	END STA. & OFF.	BEARING	DISTANCE
L86	3+63.45, 21.69' RT	3+69.91, 15.99' RT	S46°28'59"E	8.62'
L87	3+83.14, 11.00' RT	3+86.70, 11.00' RT	S05°05'51"E	3.56'
L88	3+91.84, 12.87' RT	3+96.91, 17.13' RT	S34°54'09"W	6.62'
L89	4+02.06, 19.00' RT	4+52.57, 19.00' RT	S05°05'51"E	50.51'
L90	4+57.71, 17.13' RT	4+62.79, 12.87' RT	S45°05'51"E	6.62'
L91	4+67.93, 11.00' RT	5+20.16, 11.00' RT	S05°05'51"E	52.23'
L92	5+22.16, 11.77' RT	5+24.90, 14.23' RT	N36°53'23"E	3.68'
L93	5+26.90, 15.00' RT	5+48.90, 15.00' RT	S05°05'51"E	22.00'
L94	5+50.91, 14.23' RT	5+53.64, 11.77' RT	N47°05'05"W	3.68'
L95	5+55.65, 11.00' RT	7+39.20, 11.00' RT	S05°05'51"E	183.55'
L96	4+59.78, 14.85' LT	4+66.42, 12.64' LT	N13°20'15"E	7.00'
L97	4+73.00, 17.38' LT	4+73.00, 22.87' LT	S84°54'09"W	5.49'
L98	5+02.86, 20.37' LT	5+01.41, 14.75' LT	N80°37'36"W	5.81'
L99	5+04.32, 11.00' LT	5+71.89, 13.85' LT	S05°05'51"E	67.57'
L100	5+74.88, 13.85' LT	5+75.12, 18.43' LT	S87°48'01"W	4.59'
L101	5+91.48, 18.22' LT	5+91.47, 14.01' LT	S85°03'19"W	4.22'
L102	5+94.47, 11.00' LT	6+08.49, 11.00' LT	S05°05'51"E	14.02'
L103	6+13.49, 16.07' LT	6+13.48, 16.85' LT	N84°09'13"E	0.78'
L104	6+33.53, 20.14' LT	6+33.53, 16.00' LT	S84°54'09"W	4.14'
L105	6+38.53, 11.00' LT	7+40.04, 11.00' LT	S05°05'51"E	101.51'
L106	7+97.78, 18.19' RT	8+75.18, 18.46' RT	S02°23'30"E	77.66'
L107	8+03.10, 12.88' LT	8+10.34, 20.12' LT	N47°44'06"W	10.24'
L108	8+12.46, 21.00' LT	8+87.11, 21.00' LT	N02°44'06"W	74.65'
L109	8+89.23, 20.12' LT	8+96.47, 12.88' LT	S42°15'54"W	10.24'
L110	8+98.60, 12.00' LT	9+00.14, 12.00' LT	N02°44'06"W	1.54'
L111	9+05.13, 17.24' LT	9+04.89, 22.30' LT	S84°27'56"W	5.07'
L112	9+19.18, 19.92' LT	9+19.23, 16.92' LT	S86°22'01"W	3.00'
L113	9+24.23, 12.00' LT	9+28.80, 12.00' LT	N02°44'06"W	4.57'
L114	9+30.92, 12.88' LT	9+38.16, 20.12' LT	N47°44'06"W	10.24'
L115	9+40.28, 21.00' LT	9+86.28, 21.00' LT	N02°44'06"W	46.00'
L116	9+88.40, 20.12' LT	9+95.65, 12.88' LT	S42°15'54"W	10.24'
L117	9+97.77, 12.00' LT	10+26.04, 12.00' LT	N02°44'06"W	28.27'
L118	10+25.09, 11.00' RT	10+30.21, 11.00' RT	N02°45'01"W	5.12'

CURB CURVE TABLE						
CURVE	BEG. STA. & OFF.	END STA. & OFF.	RADIUS	DELTA	TANGENT	LENGTH
CC47	7+87.79, 28.46' RT	7+97.78, 18.19' RT	10.00'	91°33'31"	10.28'	15.98'
CC58	7+39.20, 11.00' RT	7+64.20, 36.43' RT	25.00'	90°58'49"	25.43'	39.70'
CC59	7+40.04, 11.00' LT	7+65.04, 35.91' LT	25.00'	89°47'38"	24.91'	39.18'
CC70	7+85.99, 26.44' LT	8+00.98, 12.00' LT	15.00'	87°50'38"	14.45'	23.00'
CC106	3+69.91, 15.99' RT	3+83.14, 11.00' RT	20.00'	41°23'08"	7.55'	14.45'
CC107	3+86.70, 11.00' RT	3+91.84, 12.87' RT	8.00'	40°00'00"	2.91'	5.59'
CC108	3+96.91, 17.13' RT	4+02.06, 19.00' RT	8.00'	40°00'00"	2.91'	5.59'
CC109	4+52.57, 19.00' RT	4+57.71, 17.13' RT	8.00'	40°00'00"	2.91'	5.59'
CC110	4+62.79, 12.87' RT	4+67.93, 11.00' RT	8.00'	40°00'00"	2.91'	5.59'
CC111	5+20.16, 11.00' RT	5+22.16, 11.77' RT	3.00'	41°59'14"	1.15'	2.20'
CC112	5+24.90, 14.23' RT	5+26.90, 15.00' RT	3.00'	41°59'14"	1.15'	2.20'
CC113	5+48.90, 15.00' RT	5+50.91, 14.23' RT	3.00'	41°59'14"	1.15'	2.20'
CC114	5+53.64, 11.77' RT	5+55.65, 11.00' RT	3.00'	41°59'14"	1.15'	2.20'
CC115	4+66.42, 12.64' LT	4+73.00, 17.38' LT	5.00'	108°26'06"	6.94'	9.46'
CC116	5+01.41, 14.75' LT	5+04.32, 11.00' LT	3.00'	104°28'14"	3.87'	5.47'
CC117	5+71.89, 13.85' LT	5+74.88, 13.85' LT	3.00'	87°06'08"	2.85'	4.56'
CC118	5+91.47, 14.01' LT	5+94.47, 11.00' LT	3.00'	90°09'10"	3.01'	4.72'
CC119	6+08.49, 11.00' LT	6+13.49, 16.07' LT	5.00'	90°44'56"	5.07'	7.92'
CC120	6+33.53, 16.00' LT	6+38.53, 11.00' LT	5.00'	90°00'00"	5.00'	7.85'
CC121	8+00.98, 12.00' LT	8+03.10, 12.88' LT	3.00'	45°00'00"	1.24'	2.36'
CC122	8+10.34, 20.12' LT	8+12.46, 21.00' LT	3.00'	45°00'00"	1.24'	2.36'
CC123	8+87.11, 21.00' LT	8+89.23, 20.12' LT	3.00'	45°00'00"	1.24'	2.36'
CC124	8+96.47, 12.88' LT	8+98.60, 12.00' LT	3.00'	45°00'00"	1.24'	2.36'
CC125	9+00.14, 12.00' LT	9+05.13, 17.24' LT	5.00'	92°47'58"	5.25'	8.10'
CC126	9+19.23, 16.92' LT	9+24.23, 12.00' LT	5.00'	89°06'08"	4.92'	7.78'
CC127	9+28.80, 12.00' LT	9+30.92, 12.88' LT	3.00'	45°00'00"	1.24'	2.36'
CC128	9+38.16, 20.12' LT	9+40.28, 21.00' LT	3.00'	45°00'00"	1.24'	2.36'
CC129	9+86.28, 21.00' LT	9+88.40, 20.12' LT	3.00'	45°00'00"	1.24'	2.36'
CC130	9+95.65, 12.88' LT	9+97.77, 12.00' LT	3.00'	45°00'00"	1.24'	2.36'
CC131	10+26.04, 12.00' LT	10+51.02, 38.13' LT	25.00'	92°36'06"	26.16'	40.41'
CC132	10+30.21, 11.00' RT	10+55.15, 34.28' RT	25.00'	86°04'41"	23.34'	37.56'

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 3/9/2009 3:05:57 PM  
 Moseke, Doug  
 Status: - Manual

**LEGEND**  
 L - CURB LINE  
 CC - CURB CURVE INFORMATION

TWO WORKING DAYS BEFORE YOU DO CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER CALL COLLECT  
USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STATICS CONSULTING AND STATICS CONSULTING SHALL HAVE NO LIABILITY TO ANY ONE OF THE INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**PRELIMINARY**  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

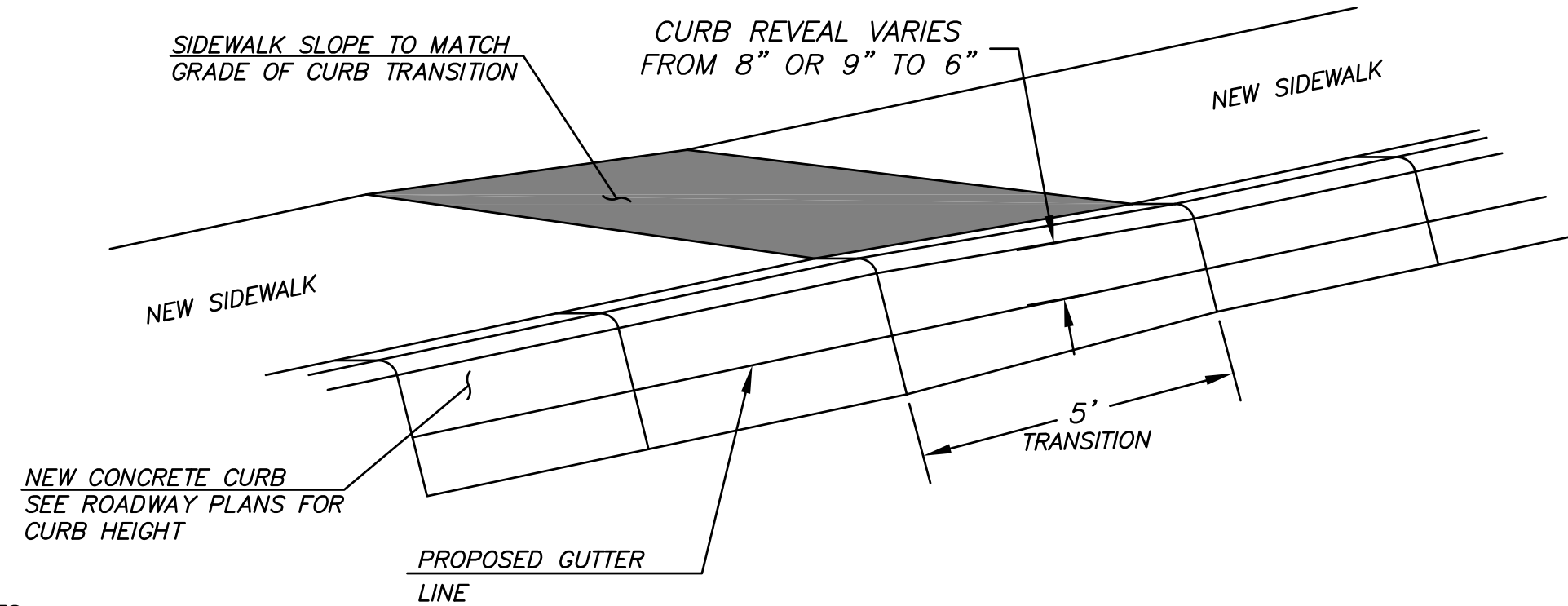
**SCOTT AVENUE  
 GEOMETRIC LAYOUT PLAN**

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
 CONGRESS STREET - GRANADA AVE. TO 5TH AVE.**

10  
 of  
 184

	DRWN. BY	V. HO	REF.	CC-CPGN10	SCALE:	1"=50'
	DSGN. BY	D. MOSEKE, JD, HP				
	CHKD. BY	A. BATT	PLAN NO.	I-2008-035		

NO.	DATE	REVISION	BY	CHKD.	APPR.

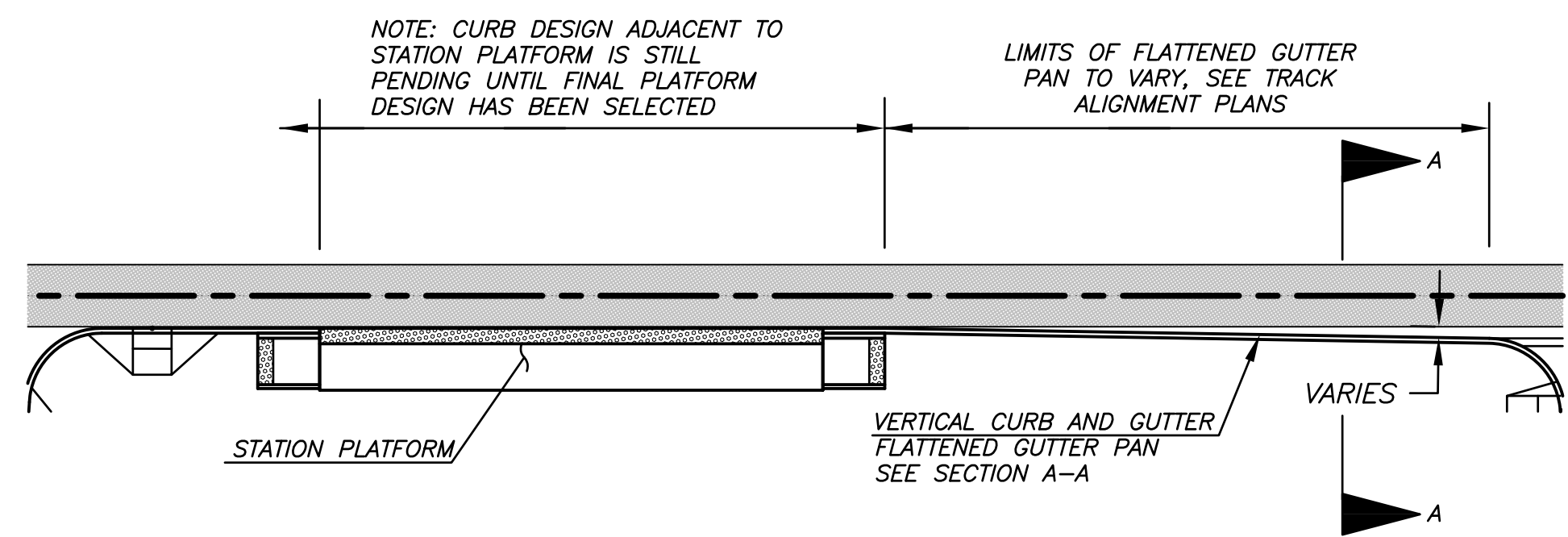


**NOTES:**

1. ALL CONCRETE TO BE CLASS "B".
2. UNLESS OTHERWISE SPECIFIED, THE TRANSITION WILL BE CONSTRUCTED PER PC/COT STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENT SECTION 908.
3. PAYMENT FOR 5-FOOT TRANSITION WILL BE PAID PER LINEAR FOOT OF NEW 6" CONCRETE CURB.
4. SEE ROADWAY PROFILE CURB CURB HEIGHTS

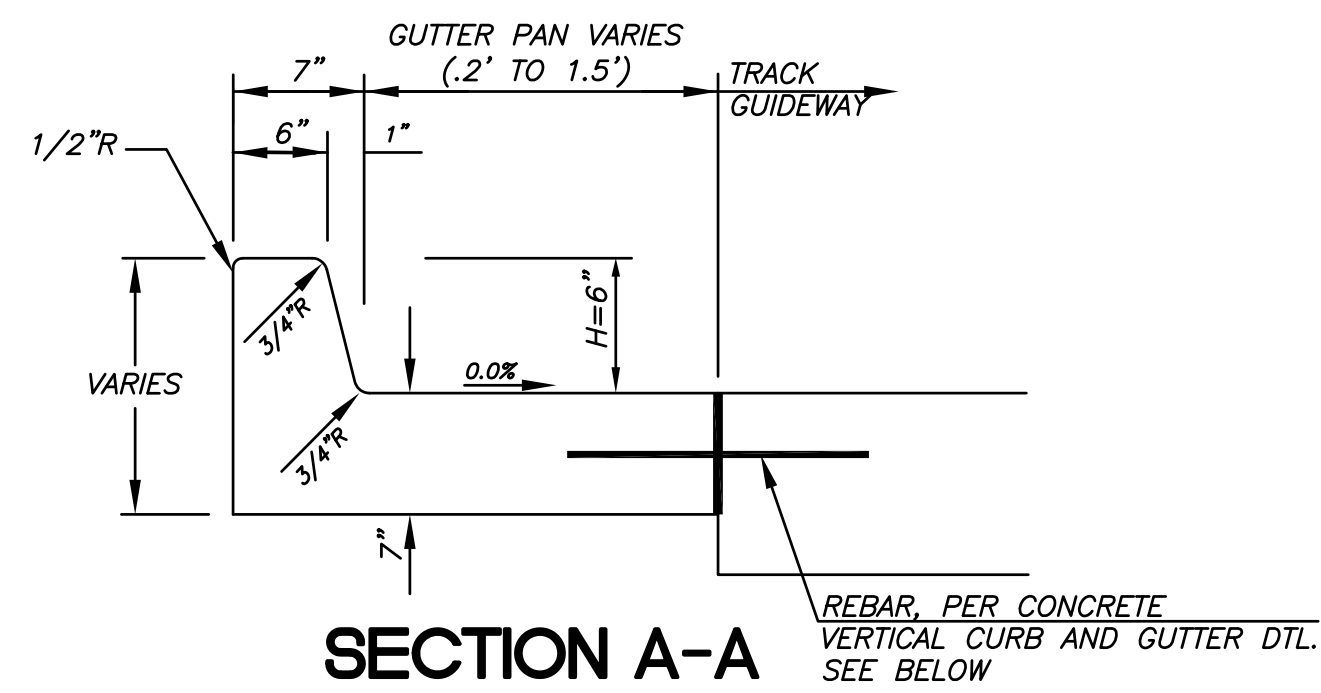
**5' VERTICAL CURB TRANSITION DETAIL**

NTS



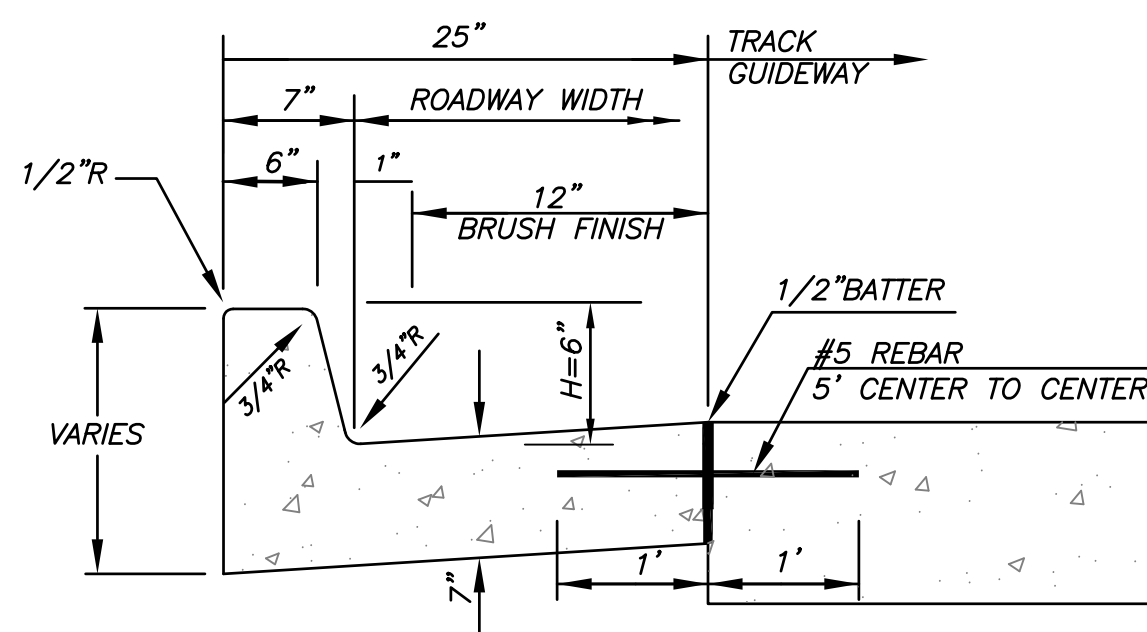
**NOTES:**

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN.
2. H=6" OR AS SPECIFIED ON PLANS.
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER PC/COT STD DTL 209.
5. CLASS 'B' CONCRETE PER SECTION 1006.



**VERTICAL CURB AND GUTTER FLATTENED GUTTER PAN**

NTS

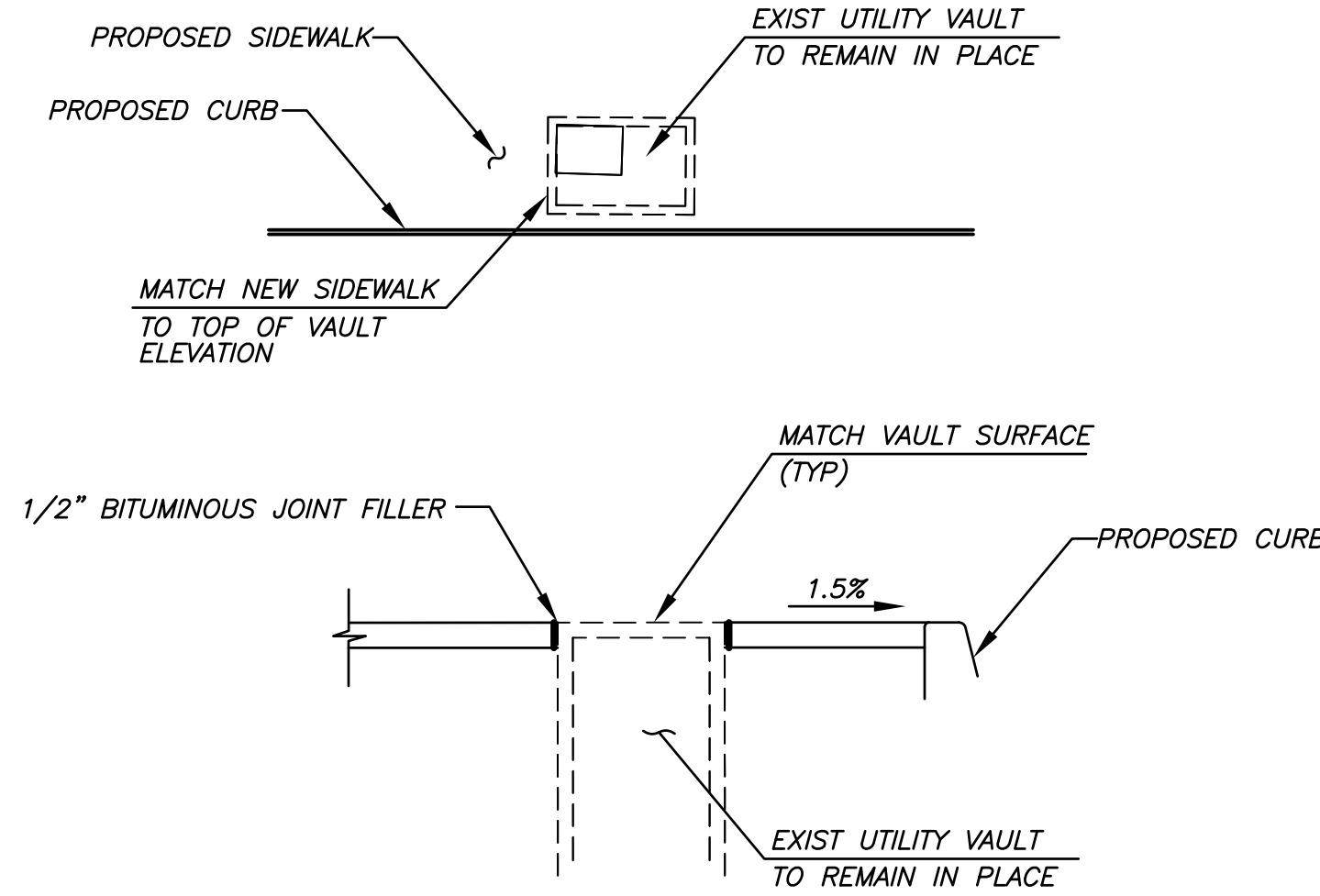


**NOTES:**

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN.
2. H=6" OR AS SPECIFIED ON PLANS.
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER PC/COT STD DTL 209.
5. CLASS 'B' CONCRETE PER SECTION 1006.

**CONCRETE VERTICAL CURB AND GUTTER**

NTS

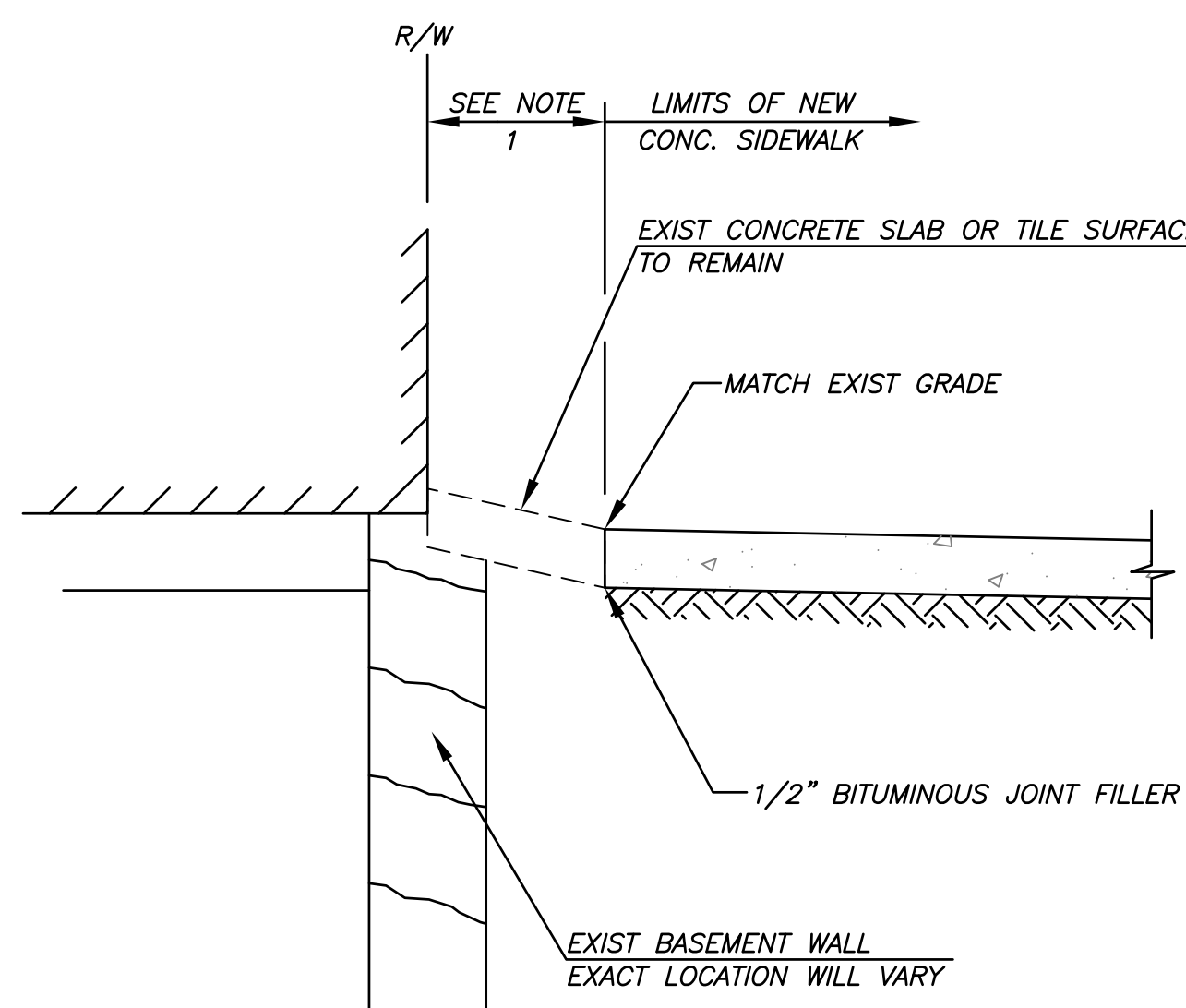


**NOTE:**

1. PRIOR TO CONSTRUCTION THE EXISTING UTILITY VAULT SHALL BE ACCESSED BY THE CONTRACTOR TO DETERMINE THE TRUE LIMITS OF THE VAULT SURFACE TO REMAIN.

**NEW SIDEWALK TO MATCH EXIST. UTILITY VAULT DETAIL**

NTS

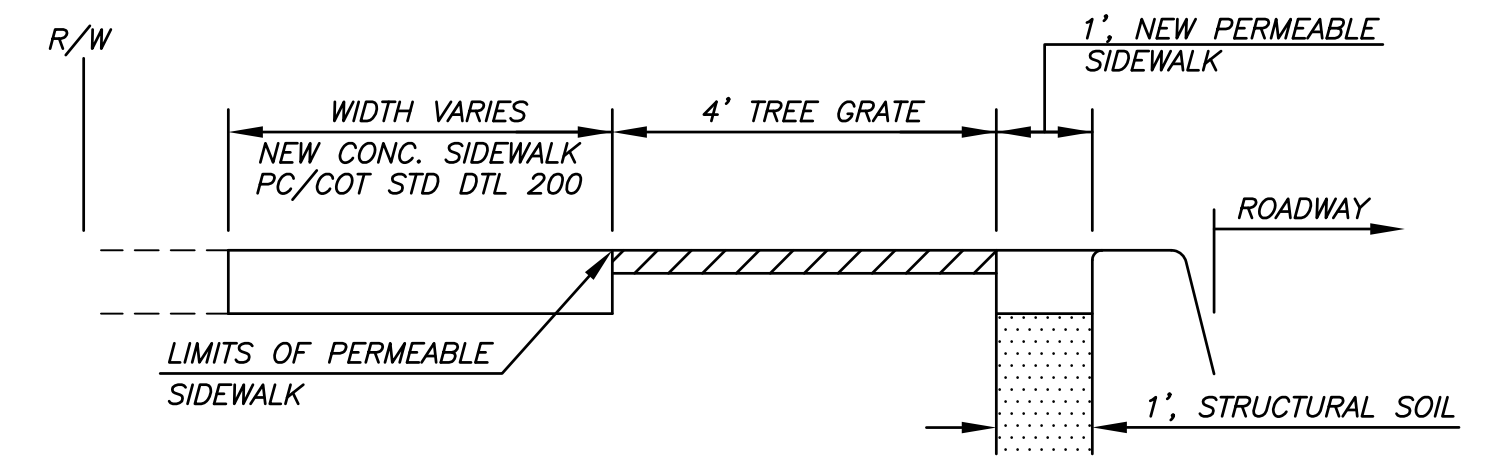


**NOTES:**

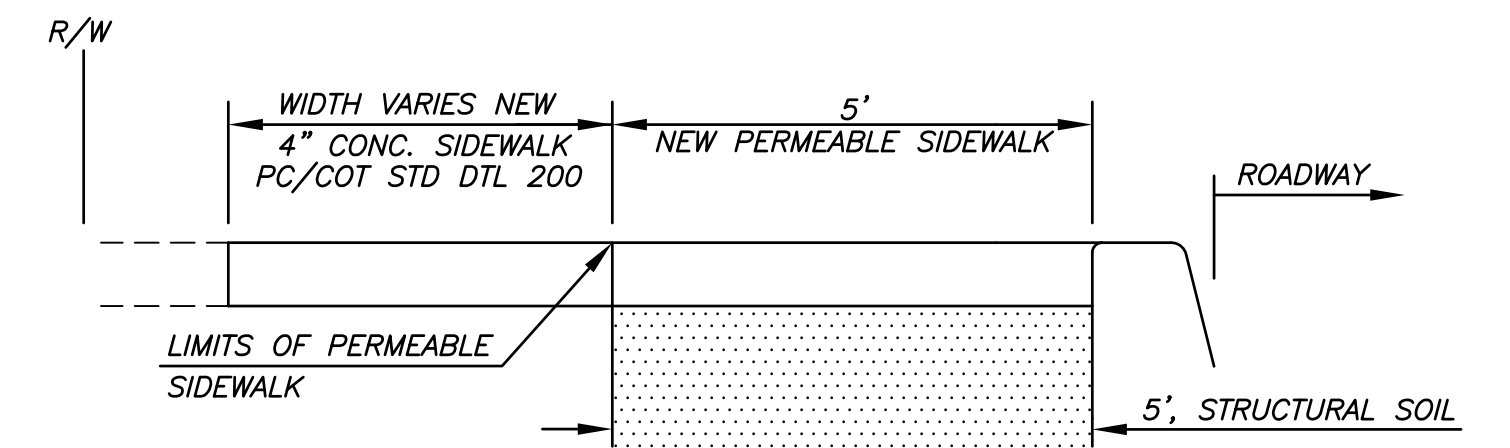
1. THE WIDTH OF EXIST SIDEWALK SURFACE THAT WILL REMAIN IN PLACE WILL VARY FROM SITE TO SITE.
2. ANY DECORATIVE FEATURES ON THE REMAINING CONCRETE SLAB SHALL BE PROTECTED. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO STAINED SIDEWALK, BRICK WORK, AND TILE.

**NEW SIDEWALK TO EXIST. BUILDING TRANSITION DETAIL**

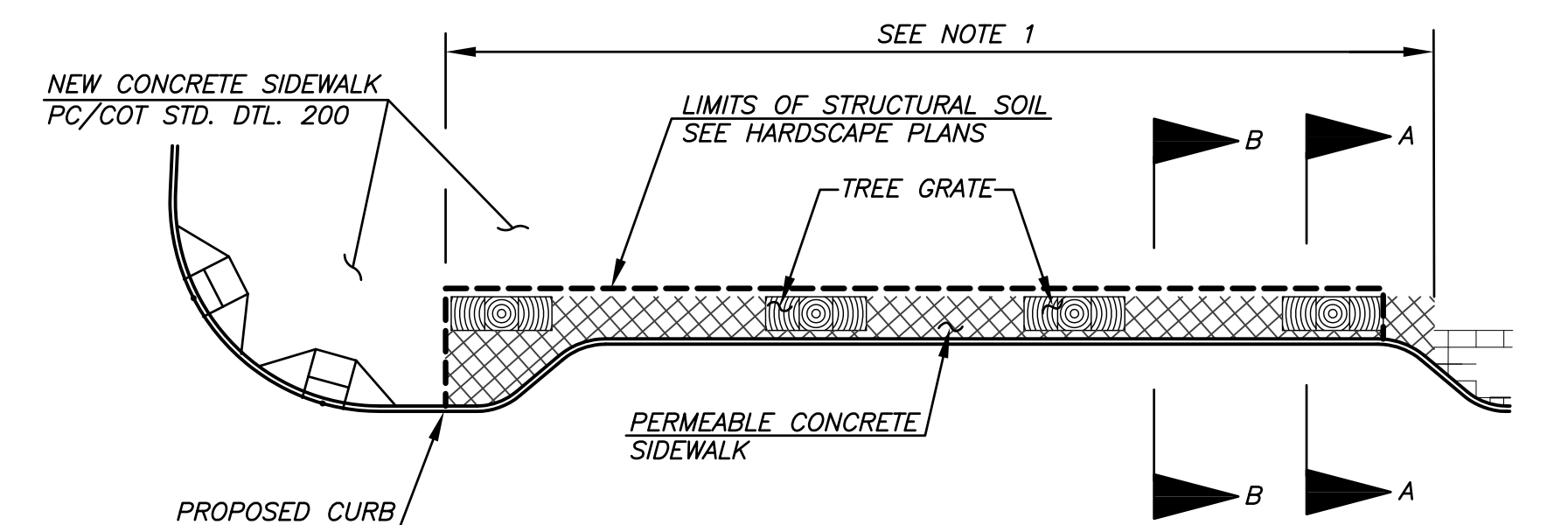
NTS



**SECTION A-A**



**SECTION B-B**



**NOTES:**

1. LIMITS OF PERMEABLE CONCRETE SIDEWALK TO VARY. SEE HARDSCAPE PLANS FOR LIMITS.
2. SEE HARDSCAPE PLANS REGARDING PLACEMENT OF TREES, TREE GRATES, STRUCTURAL SOIL, PERMEABLE CONCRETE SIDEWALK, AND CONCRETE SIDEWALK PER PC/DOT STD DTL 200.

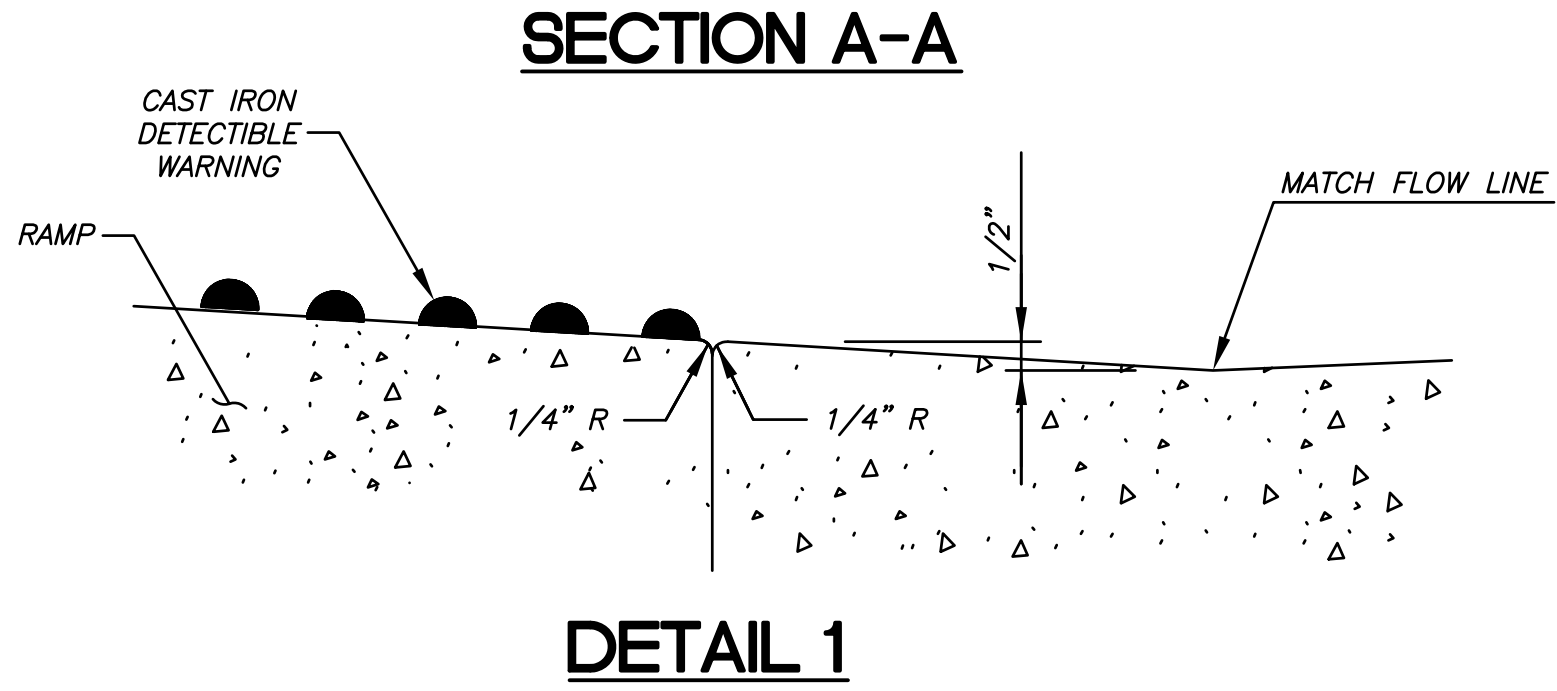
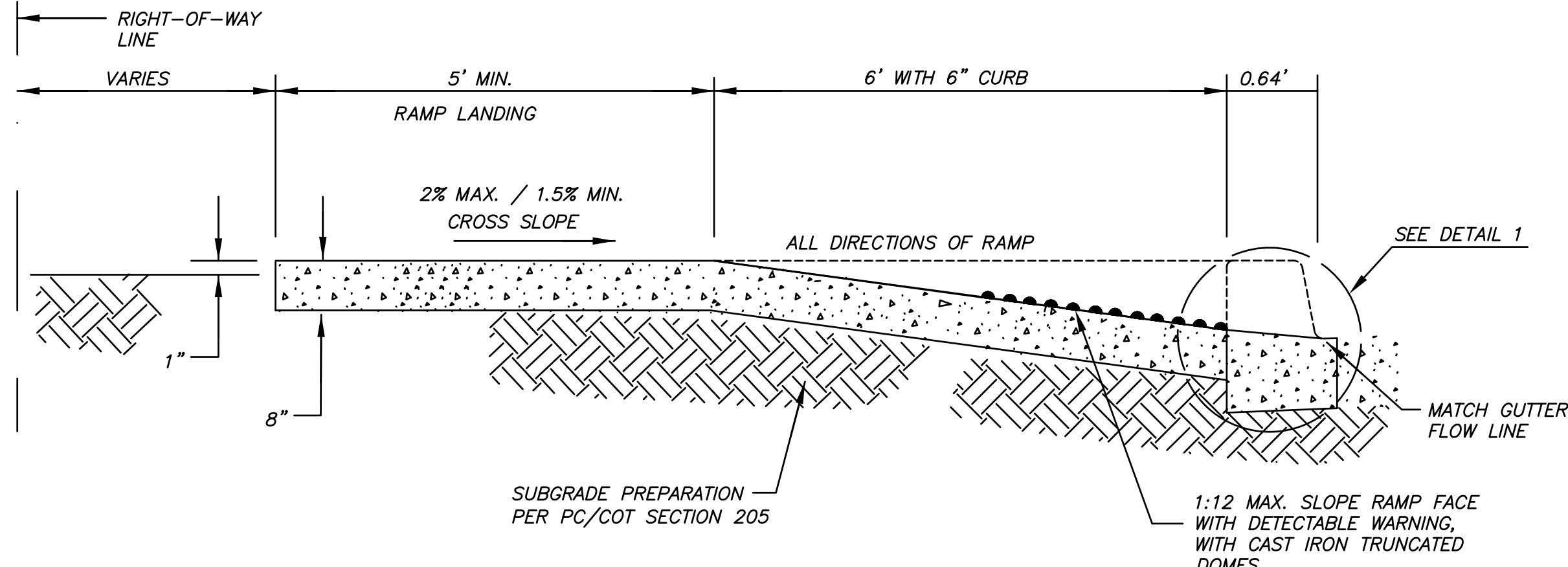
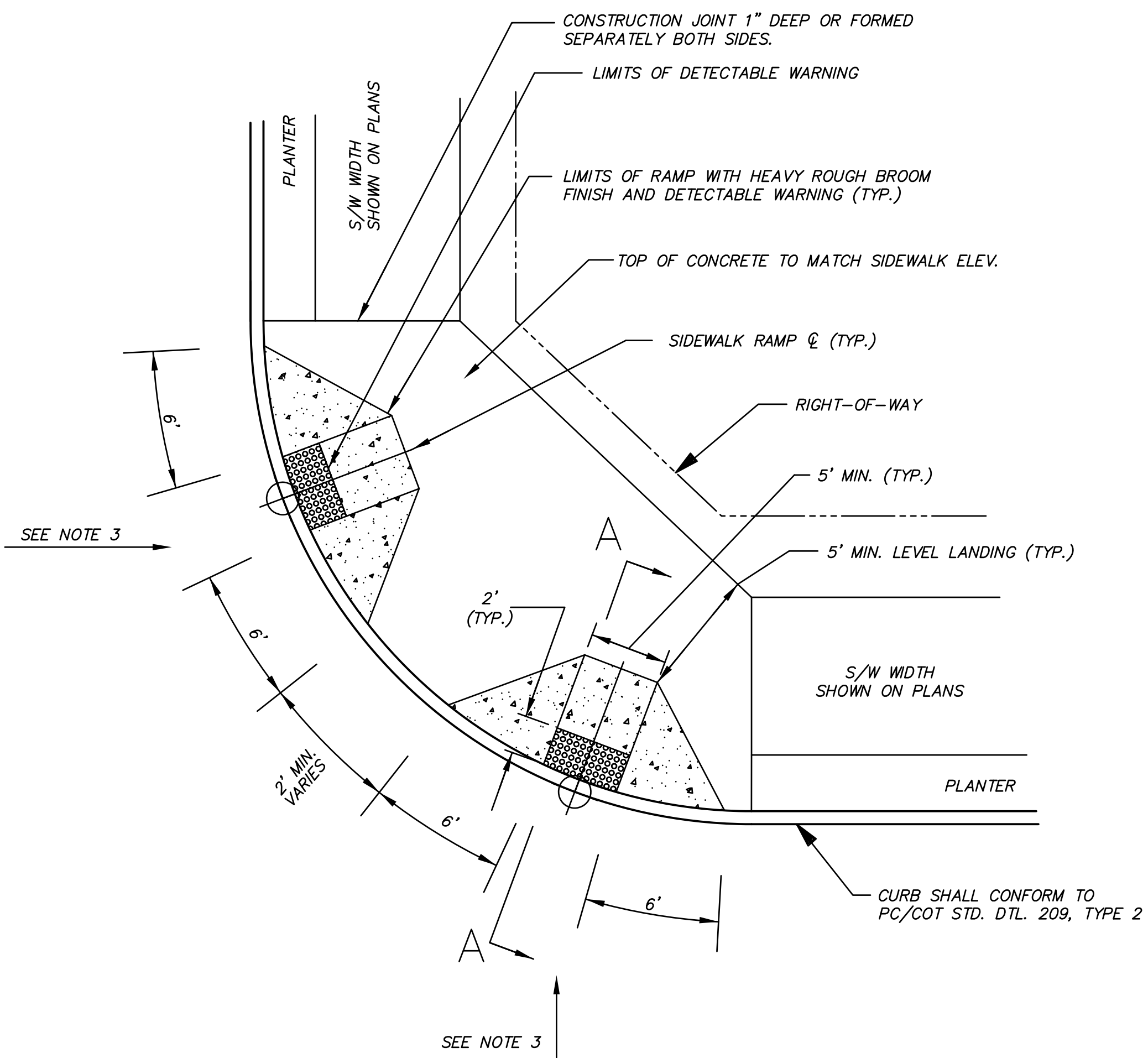
**NEW PERMEABLE CONCRETE SIDEWALK**

NTS

**ROADWAY DETAILS**

<p><b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>11 OF 184</p>
	<p>CITY OF <b>TUCSON</b></p>	<p>DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT</p>	<p>REF. CC-CPDT01 SCALE: PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.



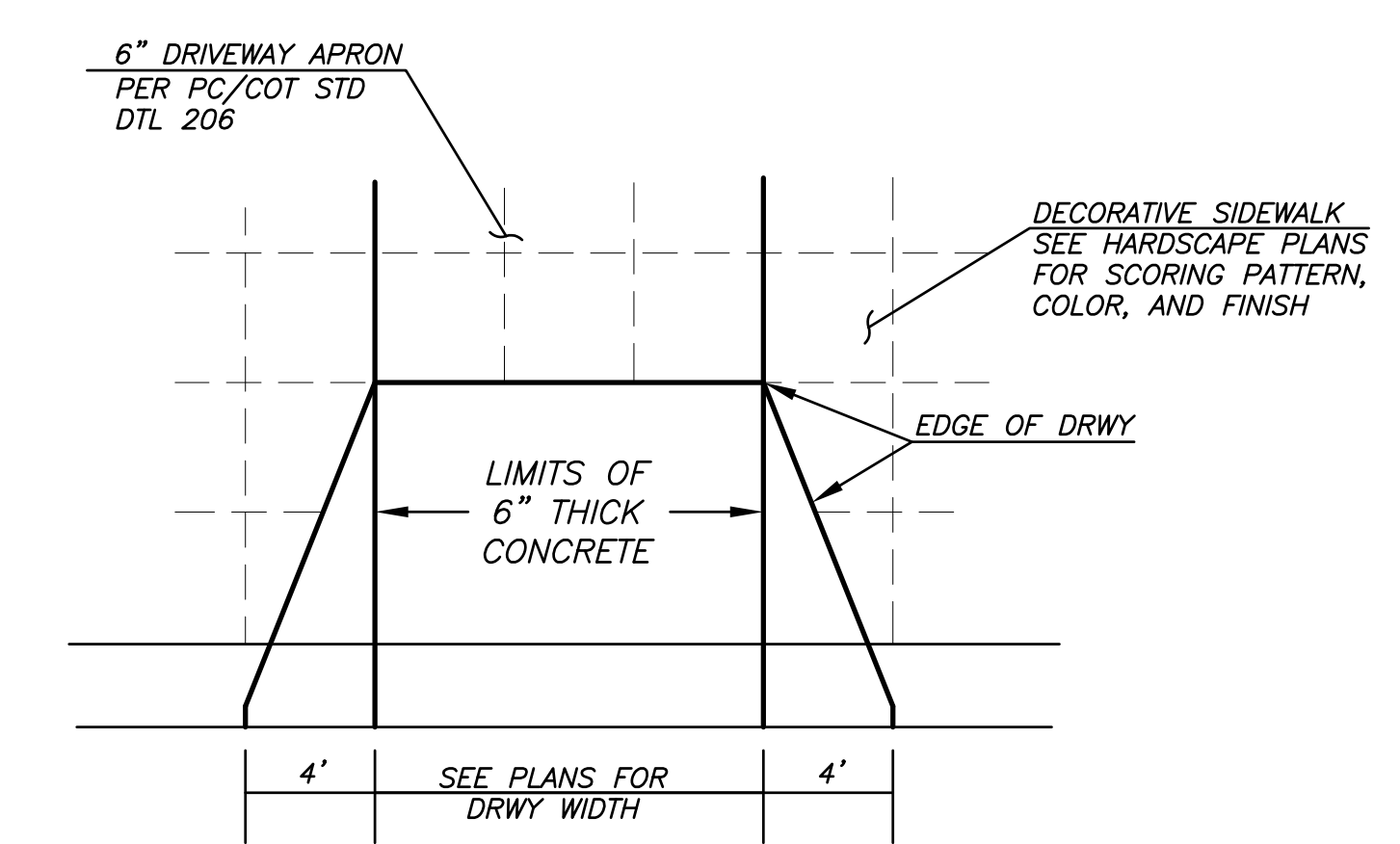
**CURB ACCESS RAMP, PC/COT DTL 207, TYPE 1 (MOD)**

NTS

**NOTES**

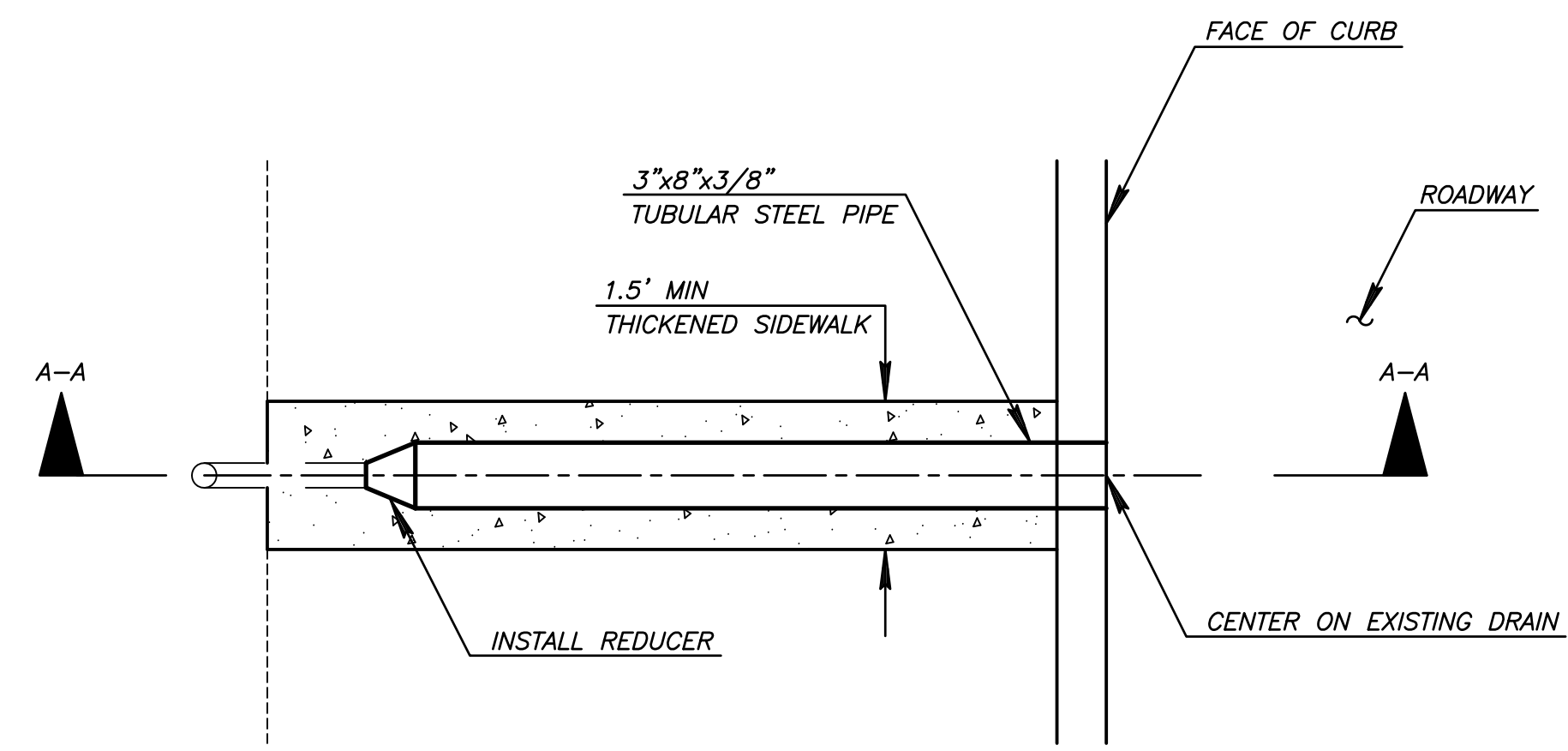
1. ALL CONCRETE TO BE CLASS "B".
2. ALL RAMPS AND DETECTABLE WARNING SHALL BE ALIGNED PERPENDICULAR TO THE CURB AT THE RAMP CONTROL POINT. CROSSWALKS SHALL BE ALIGNED PERPENDICULAR TO THE STREET CENTERLINE AS MUCH AS POSSIBLE.
3. SEE PLANS FOR LOCATION OF SIDEWALK RAMP CENTERLINE.
4. UNLESS OTHERWISE NOTED DETECTABLE WARNING PLATE SHALL BE CONSTRUCTED OF CAST IRON. 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. 70% VISUAL CONTRAST IS REQUIRED. THE COLOR SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING MATERIAL, AS SPECIFIED ON THE PLANS.
7. THE CONCRETE WORK REQUIRED TO FORM A BLOCK OUT FOR CAST IN PLACE APPLICATIONS, OR TO CREATE A SMOOTH AND CLEAN CONCRETE SURFACE FOR SURFACE APPLICATIONS, SHALL BE INCLUDED IN THE COST OF THE CONCRETE CURB RAMP.

**LEGEND**



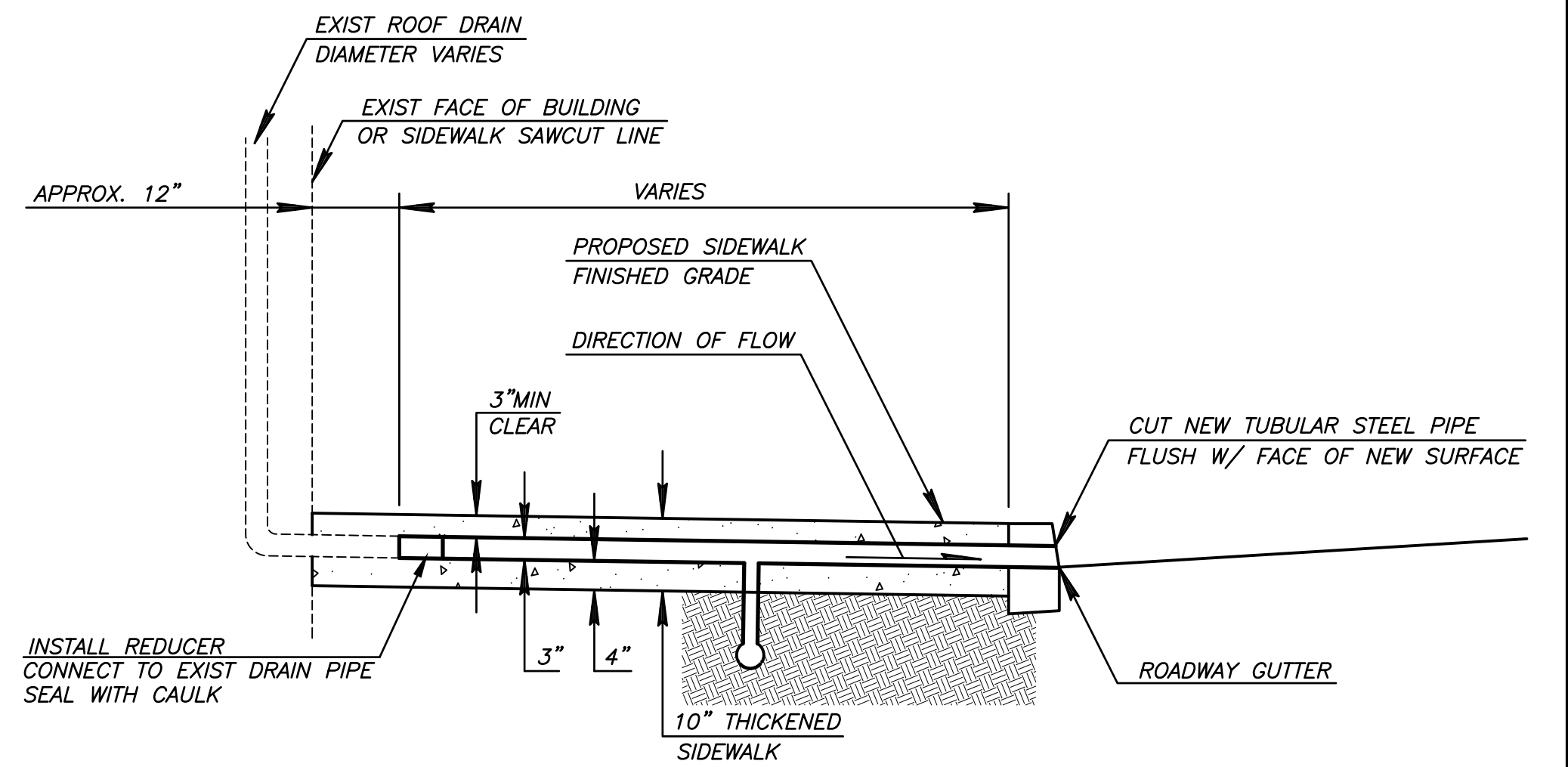
**DRIVEWAY APRON, PC/COT STD DTL 206**

NTS



**PLAN VIEW**

SCALE: N.T.S.



**SECTION A-A**

WHERE ROOF DRAIN CROSSES STRUCTURAL SOIL

SCALE: N.T.S.

- NOTES:
1. PROVIDE POSITIVE DRAINAGE FROM REDUCER CONNECTION TO OUTLET AT ROADWAY GUTTER FLOWLINE.
  2. DEPENDING ON EXISTING FIELD CONDITIONS, THE CONTRACTOR SHALL MODIFY AS NECESSARY TO PROVIDE DRAINAGE. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER, PRIOR TO ANY MODIFICATION.
  3. THIS DETAIL APPLIES TO ROOF DRAINS RECESSED IN BUILDINGS OR LOCATED AT THE FACE OF BUILDINGS.
  4. TUBULAR STEEL PIPE SHALL BE PAINTED WITH EPOXY COATING TO PREVENT CORROSION.

**ROOF DRAIN DETAIL**

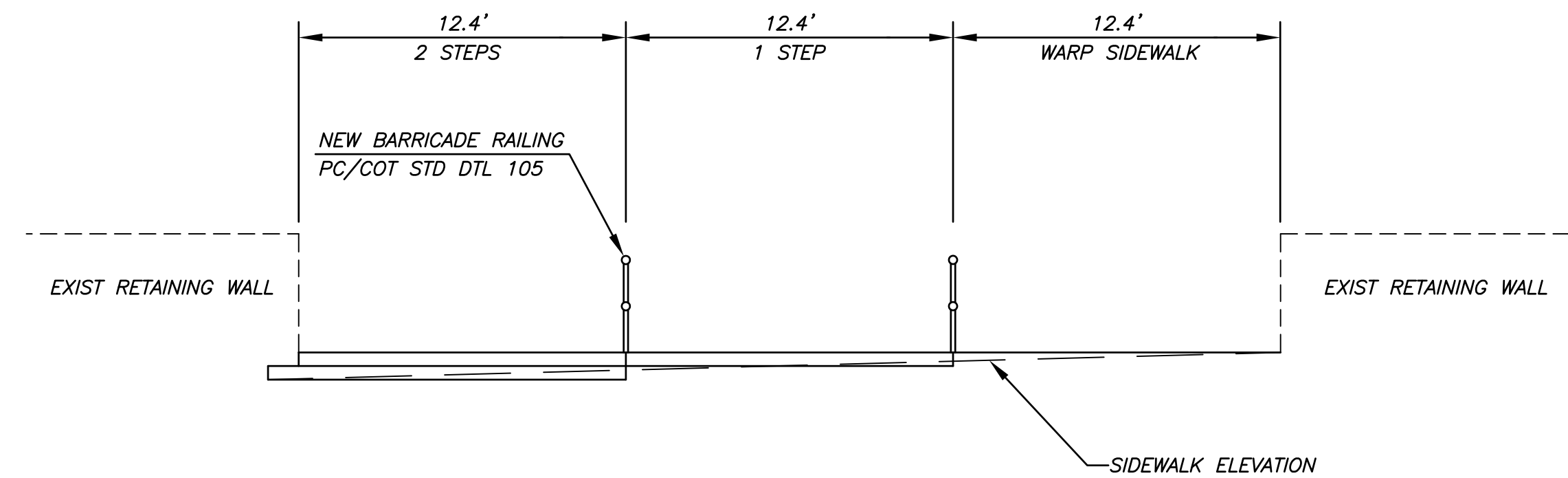
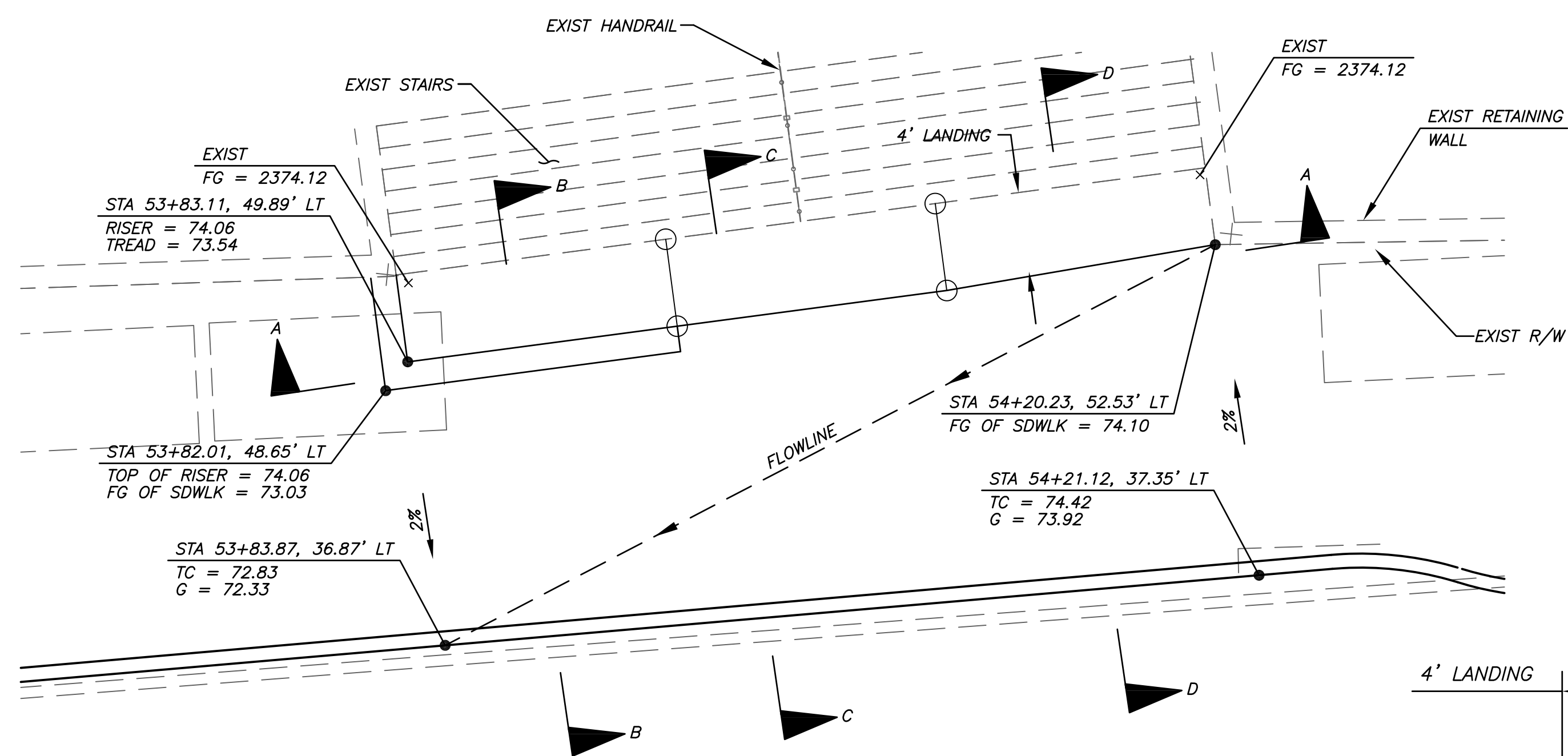
SCALE: N.T.S.

**ROADWAY DETAILS**

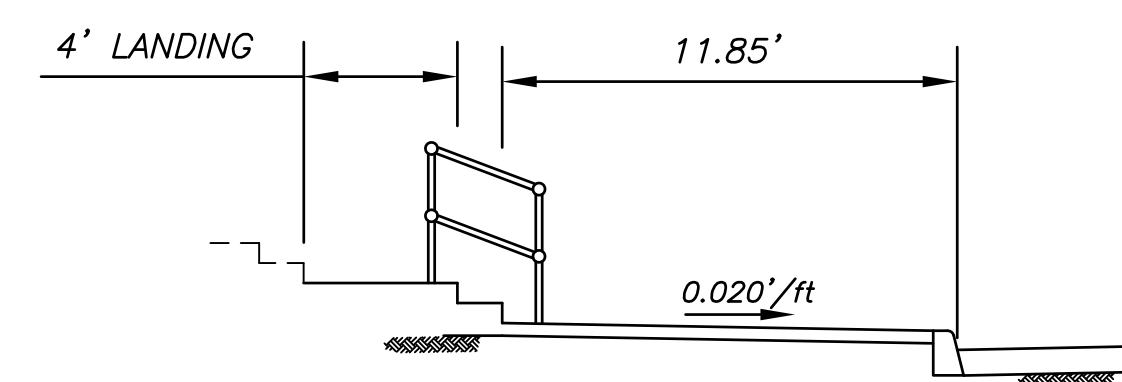
<p><b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>12 OF 184</p>
	<p>CITY OF <b>TUCSON</b></p>	<p>DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT</p>	<p>REF. CC-CPDT02 SCALE: PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.

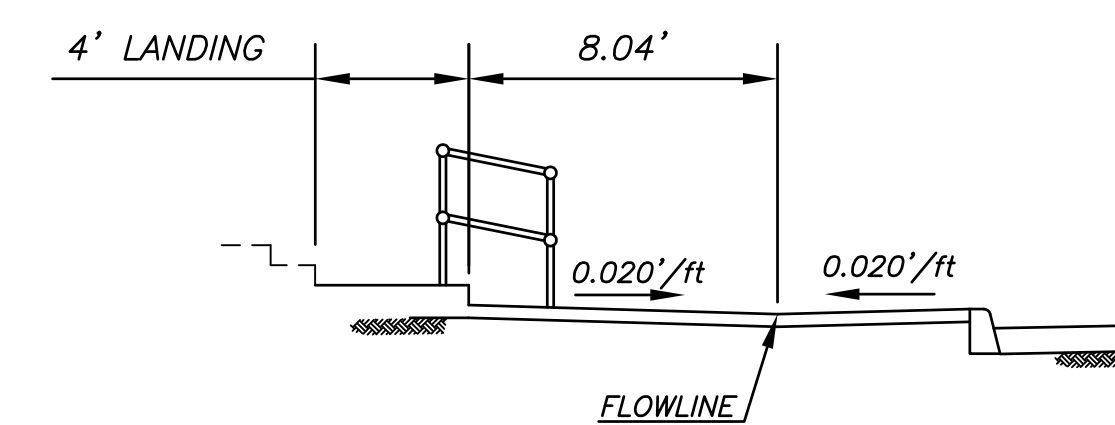
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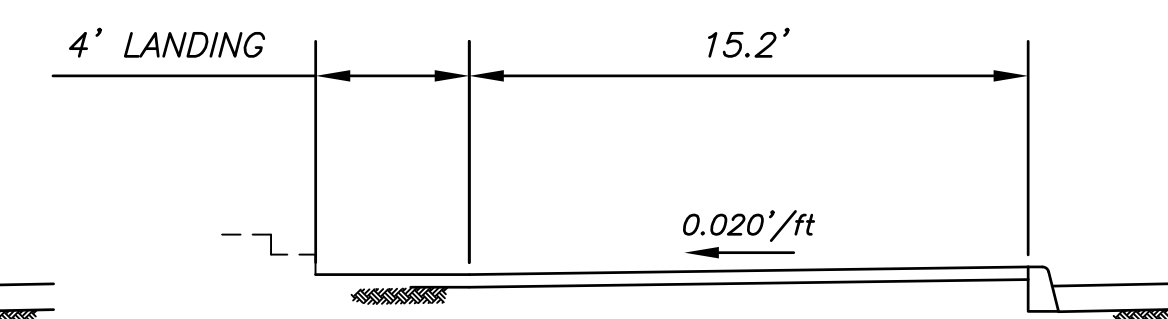
SECTION A-A



SECTION B-B



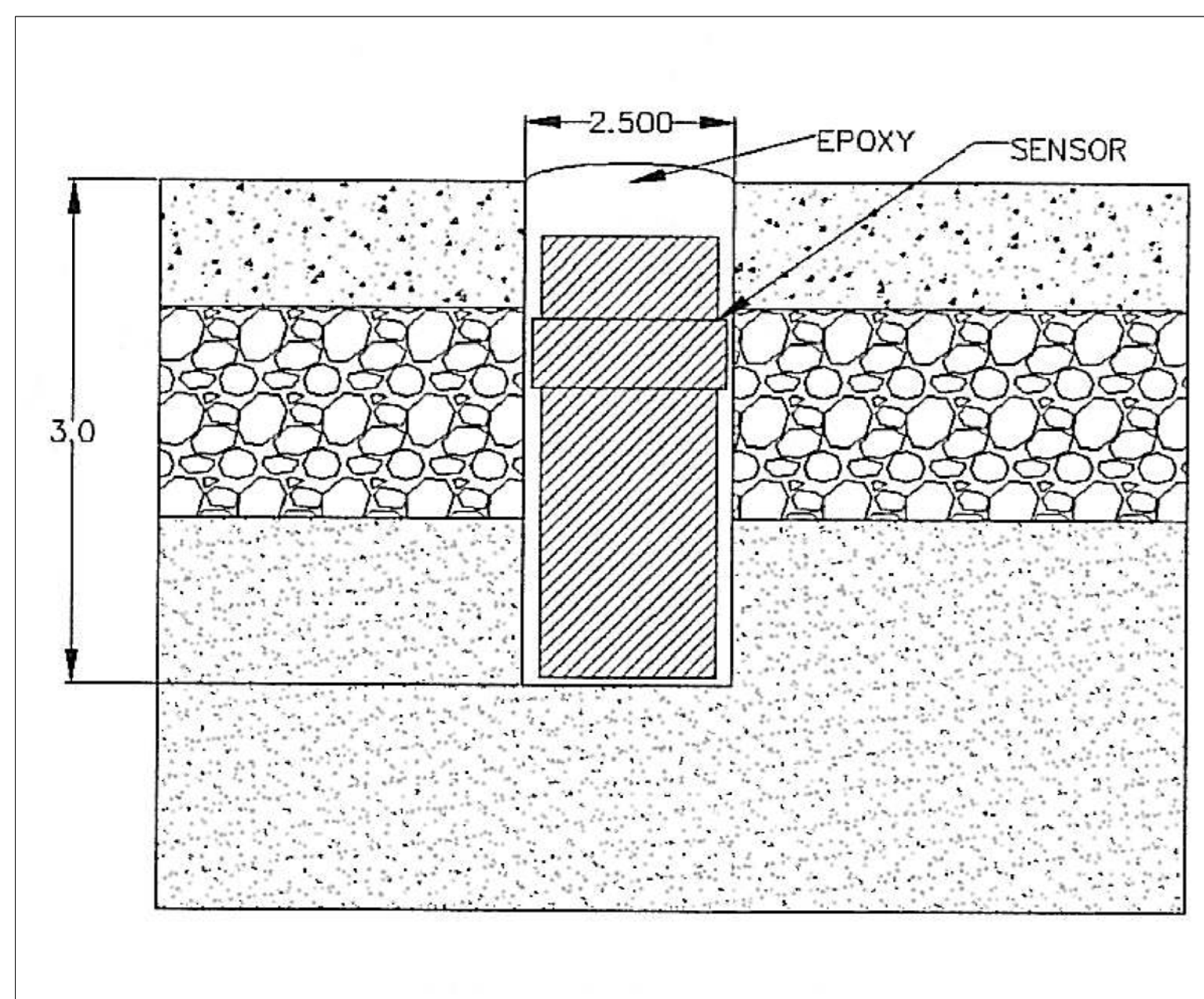
SECTION C-C



SECTION D-D

STA. 54+00, 50' LT. STAIRWELL GRADING PLAN

SCALE: 1"=5'



PARKING SENSOR DETAIL

SCALE: NTS'

M-GAGE INSTALLATION INSTRUCTIONS

- Safety**
1. Always wear proper eye protection when grinding or drilling.
  2. Gloves, hearing protection, and sturdy boots are also highly recommended.
  3. Always read and follow all specific instructions and safety precautions provided by manufacturer of all equipment.
- Equipment Required**
1. 2.5" Coring equipment. Many varieties exist; choose whichever best suits the conditions of the particular installation site.
  2. Epoxy. We recommend using FJS/MP-55 from Fabick Protective Coatings. This material is self-leveling, compatible with porous surfaces like asphalt/concrete, ductile, and extremely fast curing.
- Layout Requirements**
1. Ensure the pavement is solid and stable for each sensor that is to be installed
  2. Locate the drilling point for each parking space; locations should be derived using the following methodology:
    - i. *Parallel Parking* – measure 4 foot from front of parking space and place mark on roadway, typically where engine blocks will be directly over the sensor. Sensors should be located equal distance from each side of the parking space.
    - ii. *Front Pull In/Angled Parking* – measure 4 foot from the front of the parking space and place mark on roadway, typically where the engine

PARKING KIOSK DETAIL

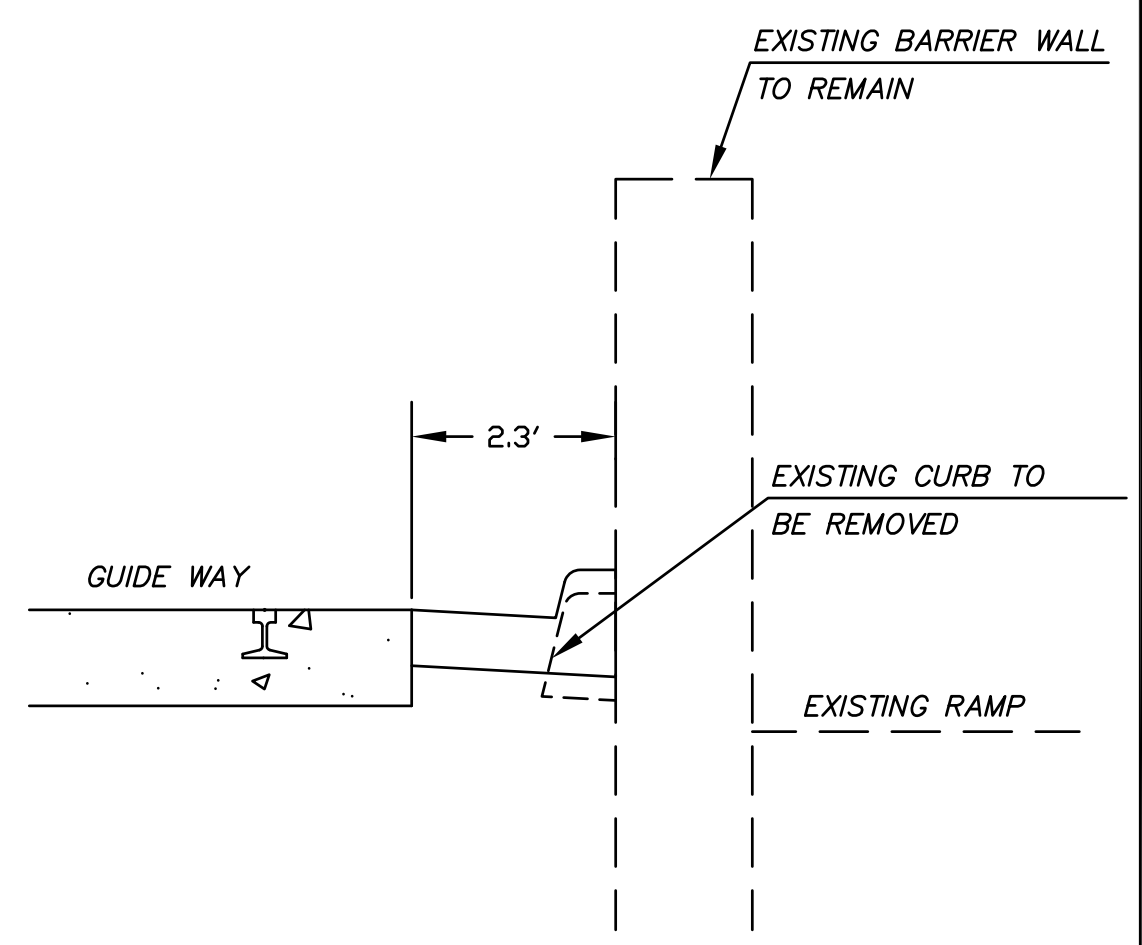
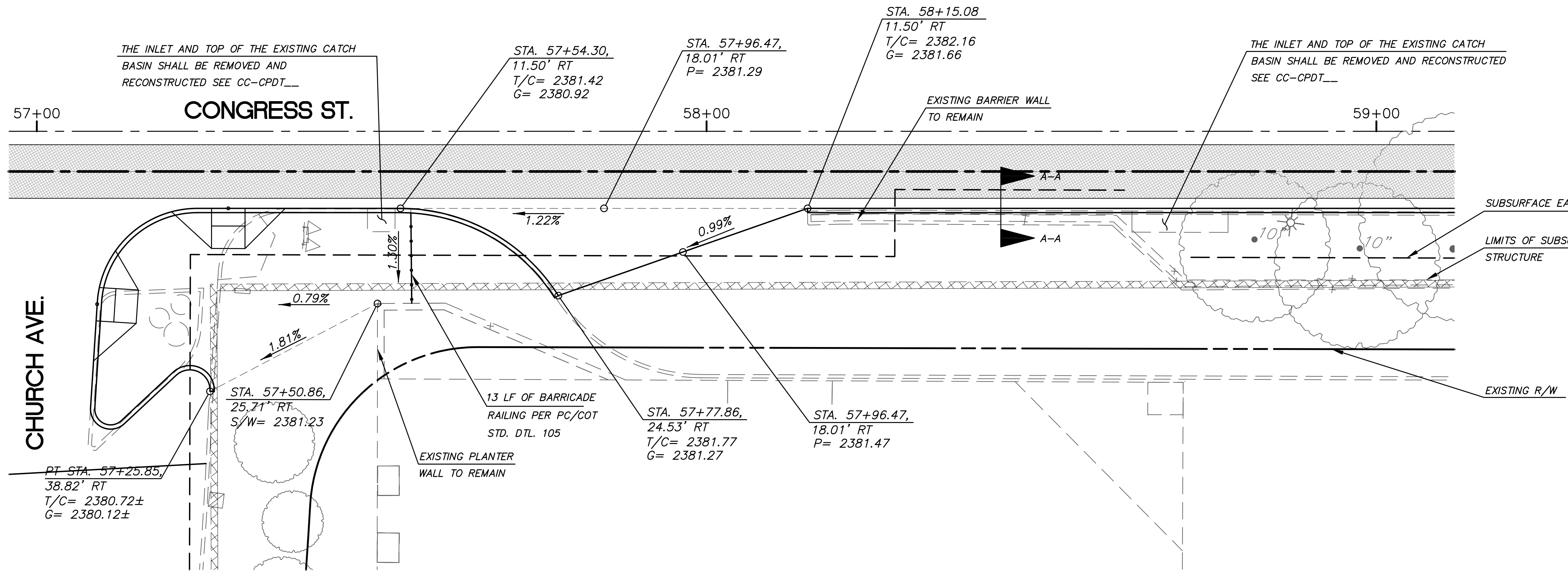
SCALE: NTS'

ROADWAY DETAILS

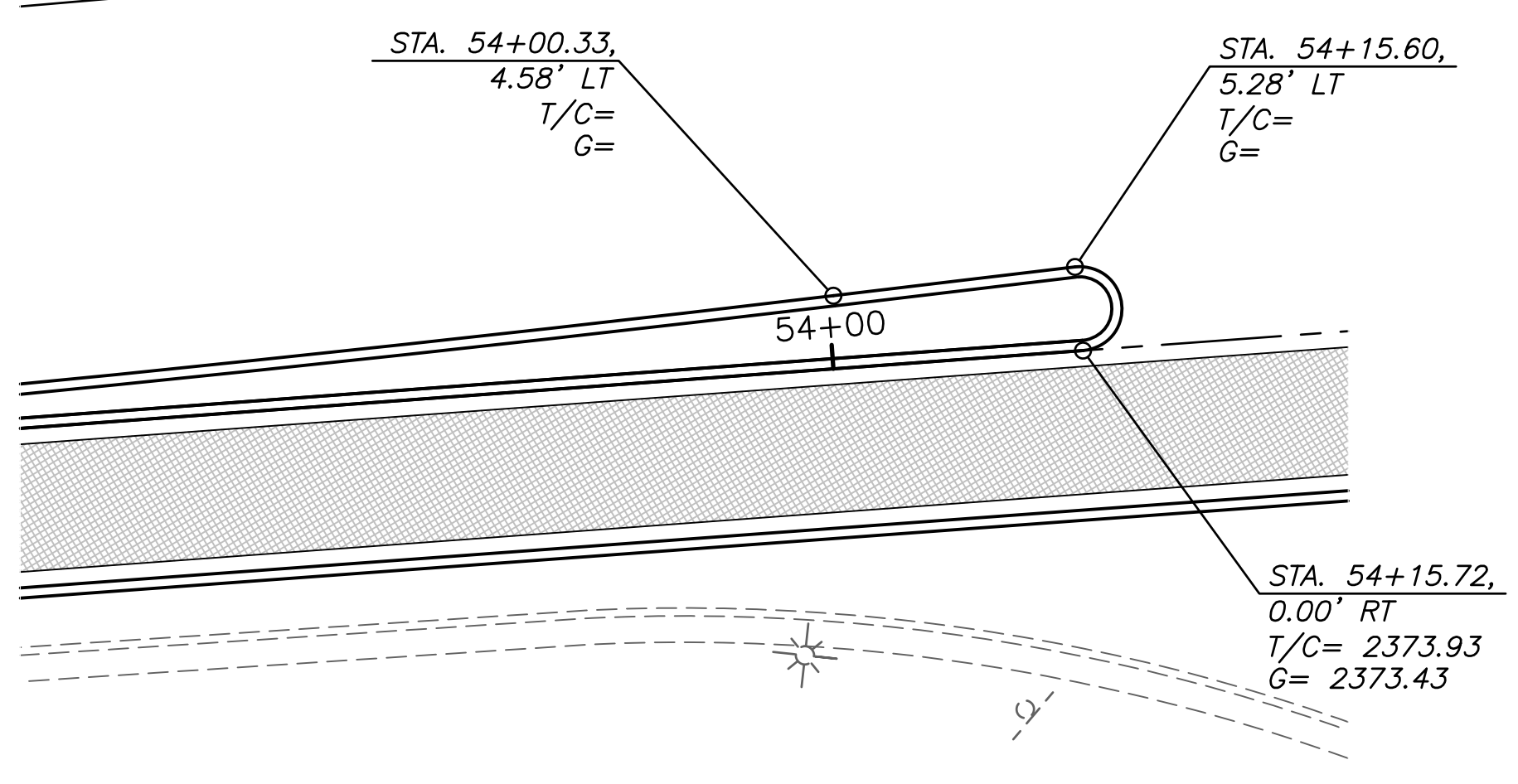
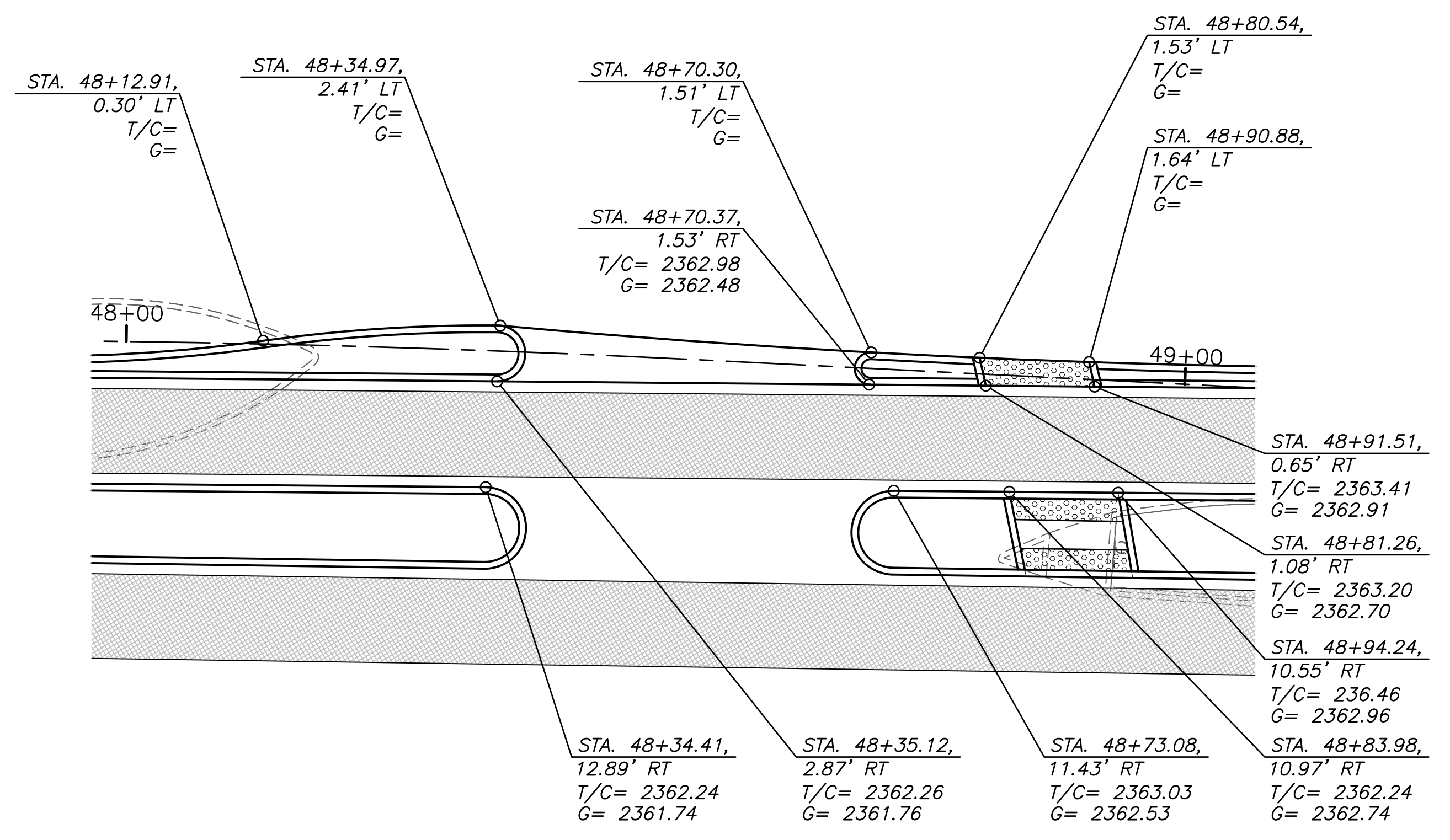
<p><b>P</b>RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>13 OF 184</p>
	<p>CITY OF <b>TUCSON</b></p>	<p>DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT</p>	<p>REF. CC-CPDT03 SCALE: PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Moseke, Doug



**UNISOURCE TOWER RAMP EXIST GRADING DETAIL**  
SCALE: 1"=10'



**CONGRESS MEDIAN GRADING DETAIL (STA 48+50)**  
SCALE: 1"=10'

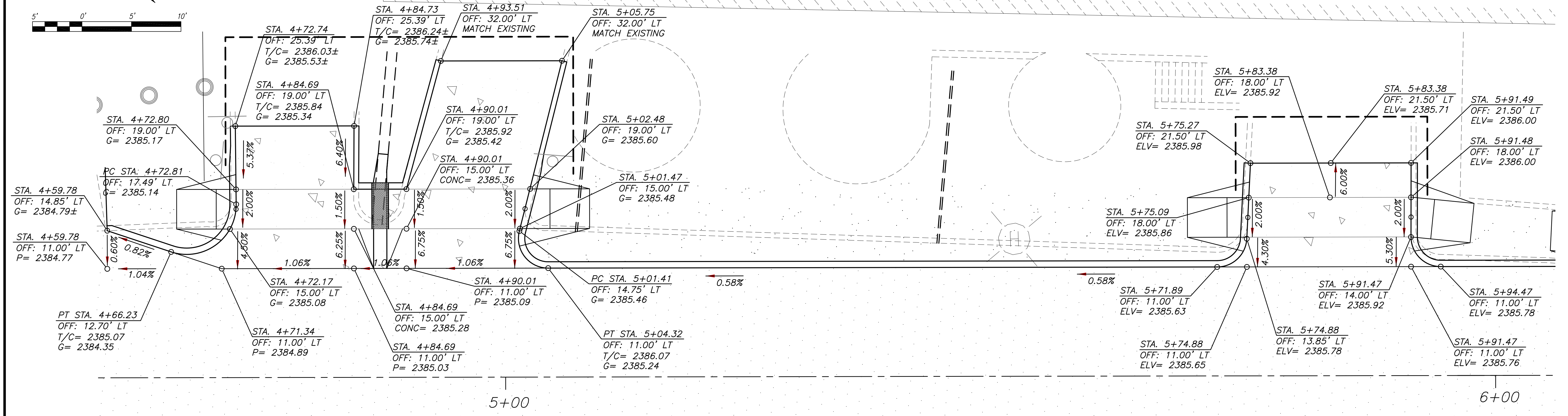
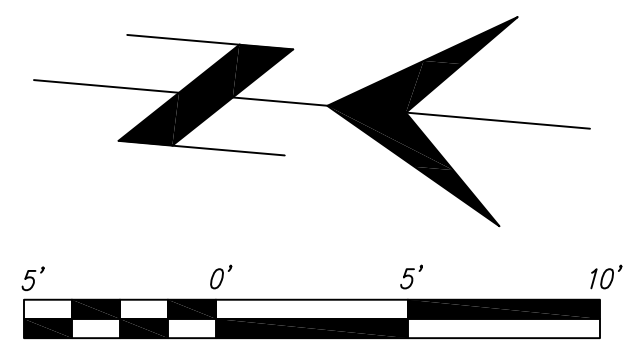
**CONGRESS MEDIAN GRADING DETAIL (STA 54+15)**  
SCALE: 1"=10'

**ROADWAY DETAILS**

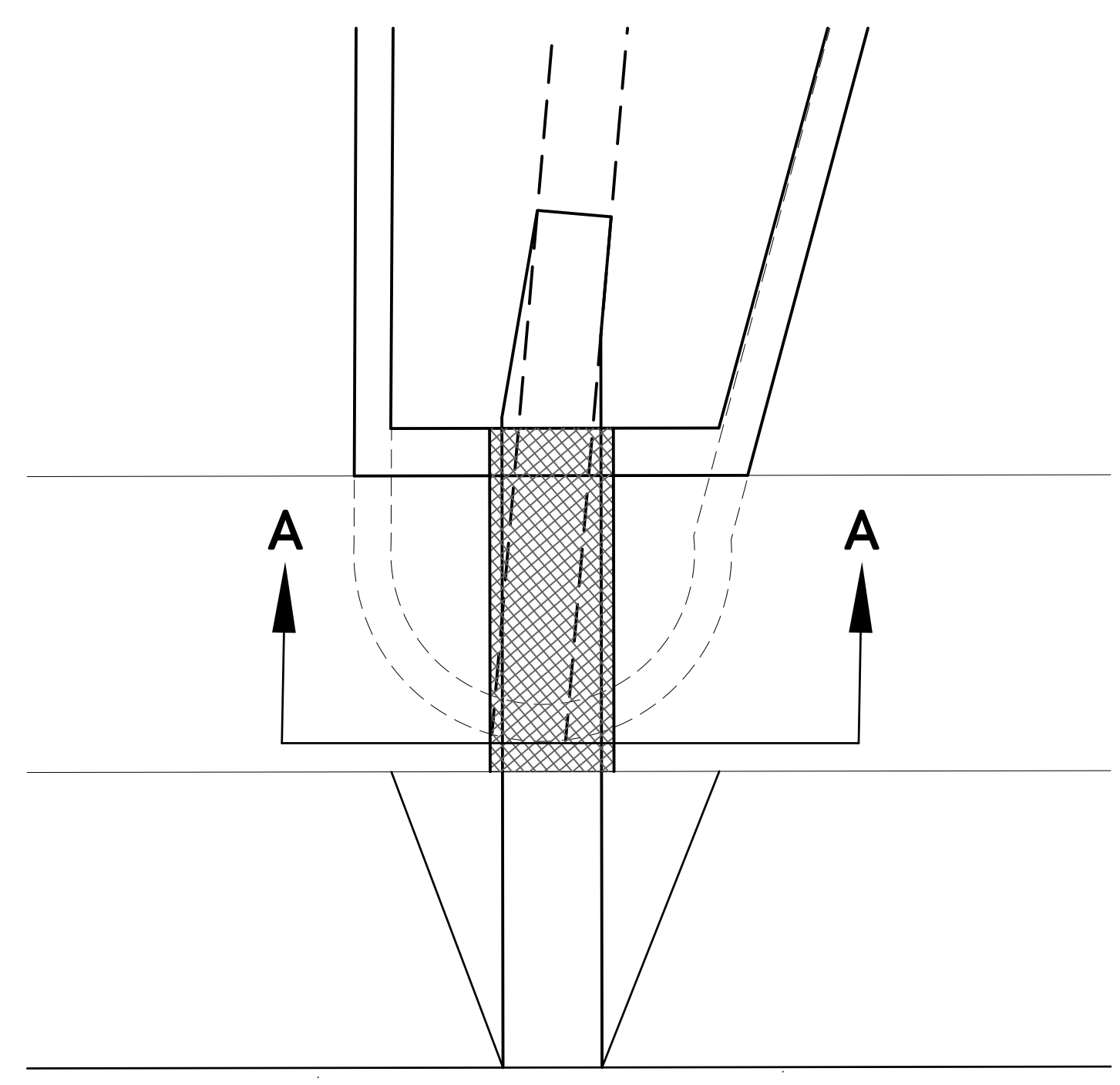
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DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPDT04 SCALE: _____ PLAN NO. I-2008-035		

NO.	DATE	REVISION	BY	CHKD.	APPR.

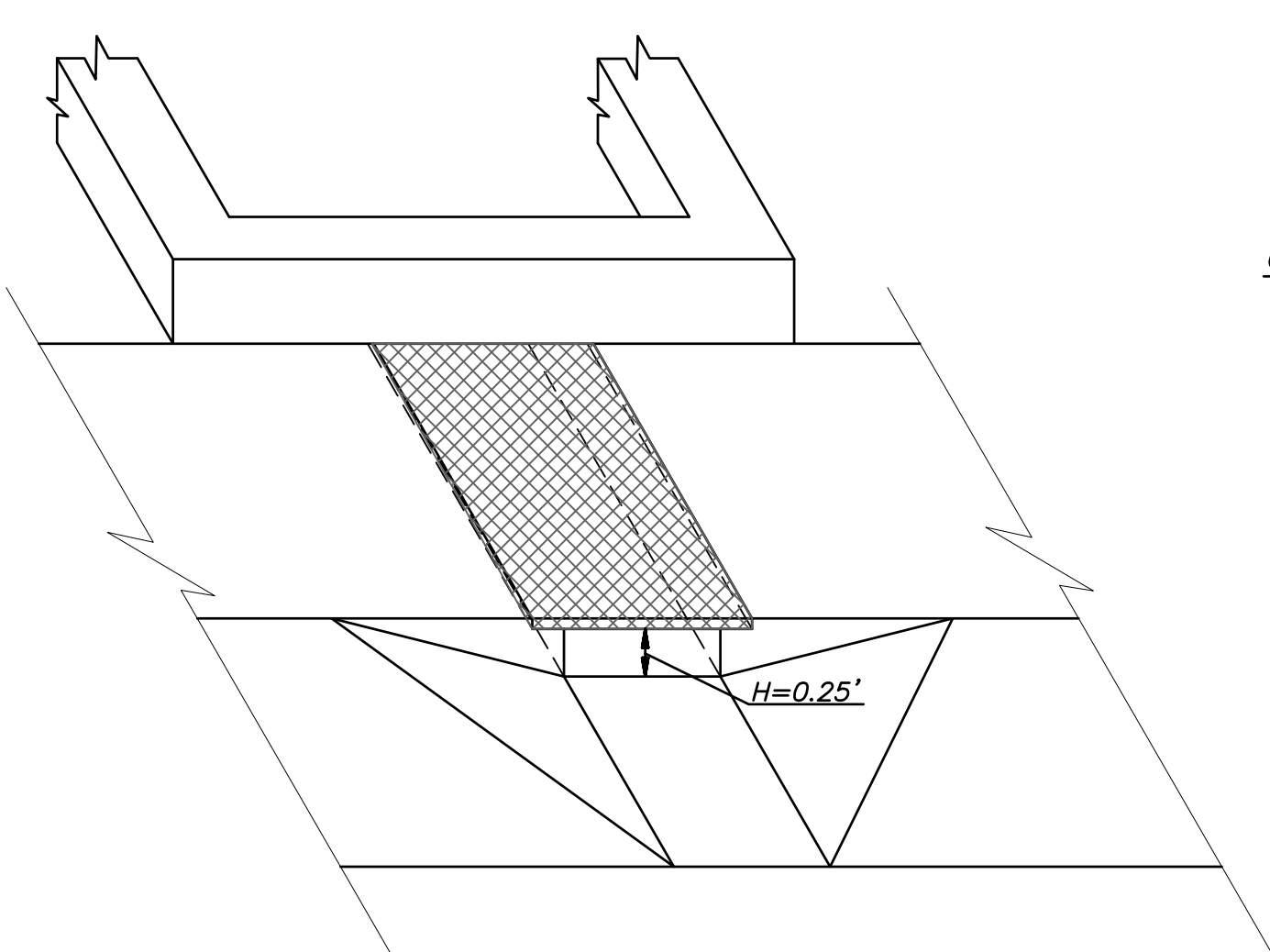
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 Moseke, Doug



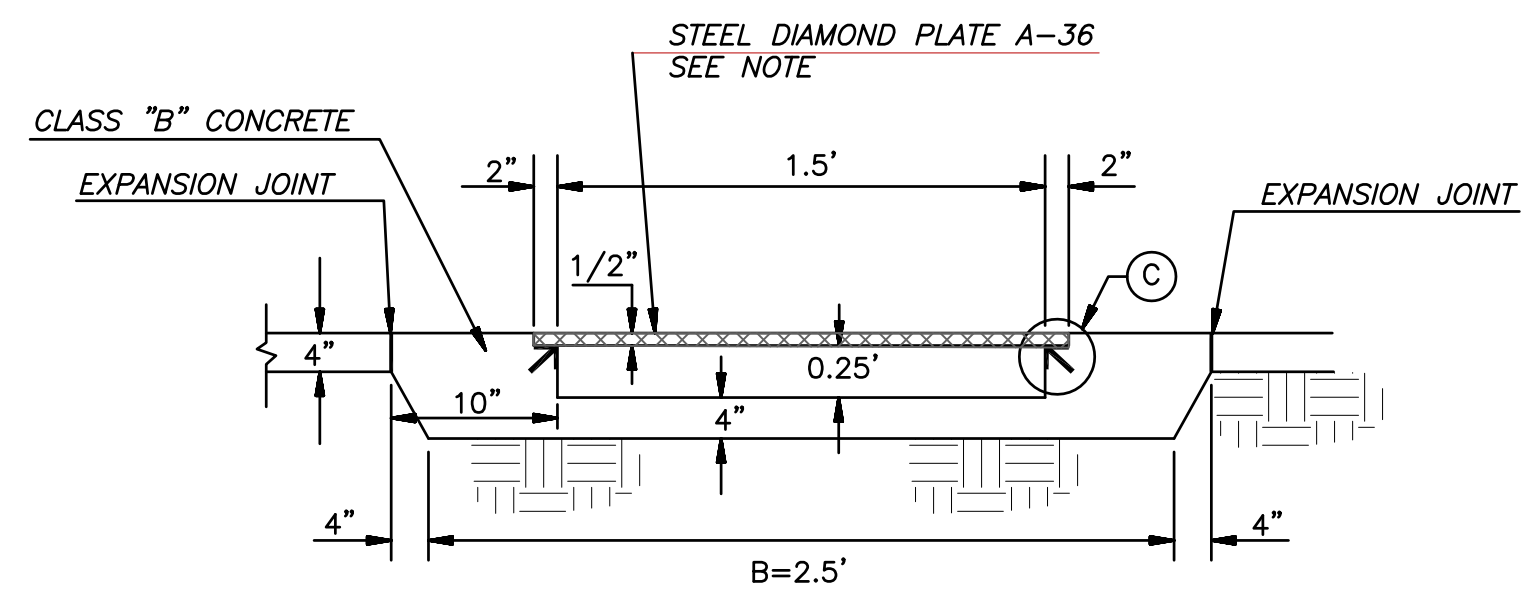
**SCOTT AVE. DRIVEWAY DETAILS**  
**STA. 4+78.85, STA. 4+96.70, STA 5+83.30**  
 SCALE 1" = 5'



**SCUPPER DETAIL**  
**PLAN VIEW**

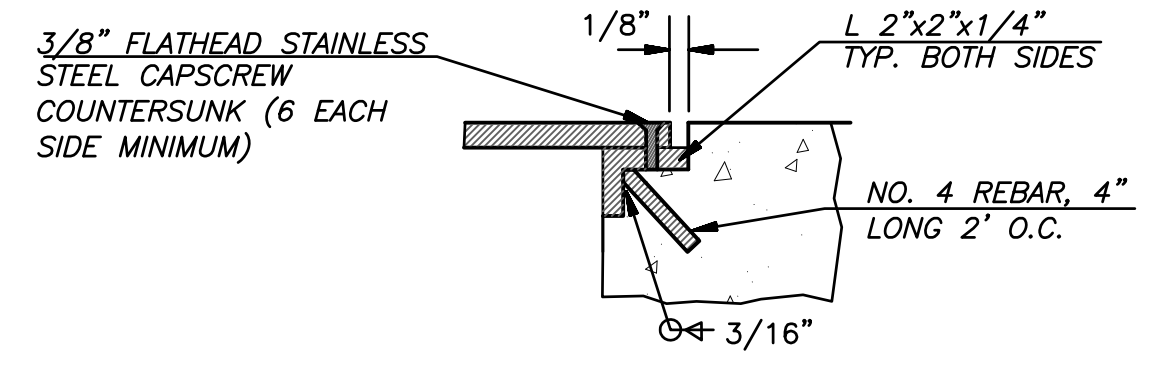


**SCUPPER DETAIL**  
**ISOMETRIC VIEW**  
 SIDEWALK SCUPPER, TYPE 2  
 PER COT STD. DTL. 205 AS  
 MODIFIED HEREON



**NOTES:**  
 STEEL DIAMOND PLATE SHALL BE GIVEN ONE SHOP COAT OF PAINT NO. 1 PER STD. SPEC. SECTION 1002. EXPOSED METAL SHALL BE PAINTED WITH TWO COATS OF SSSP PAINT NO. 5 PER STD. SPEC. SECTION 1002.

**SECTION A - A**



**DETAIL C**

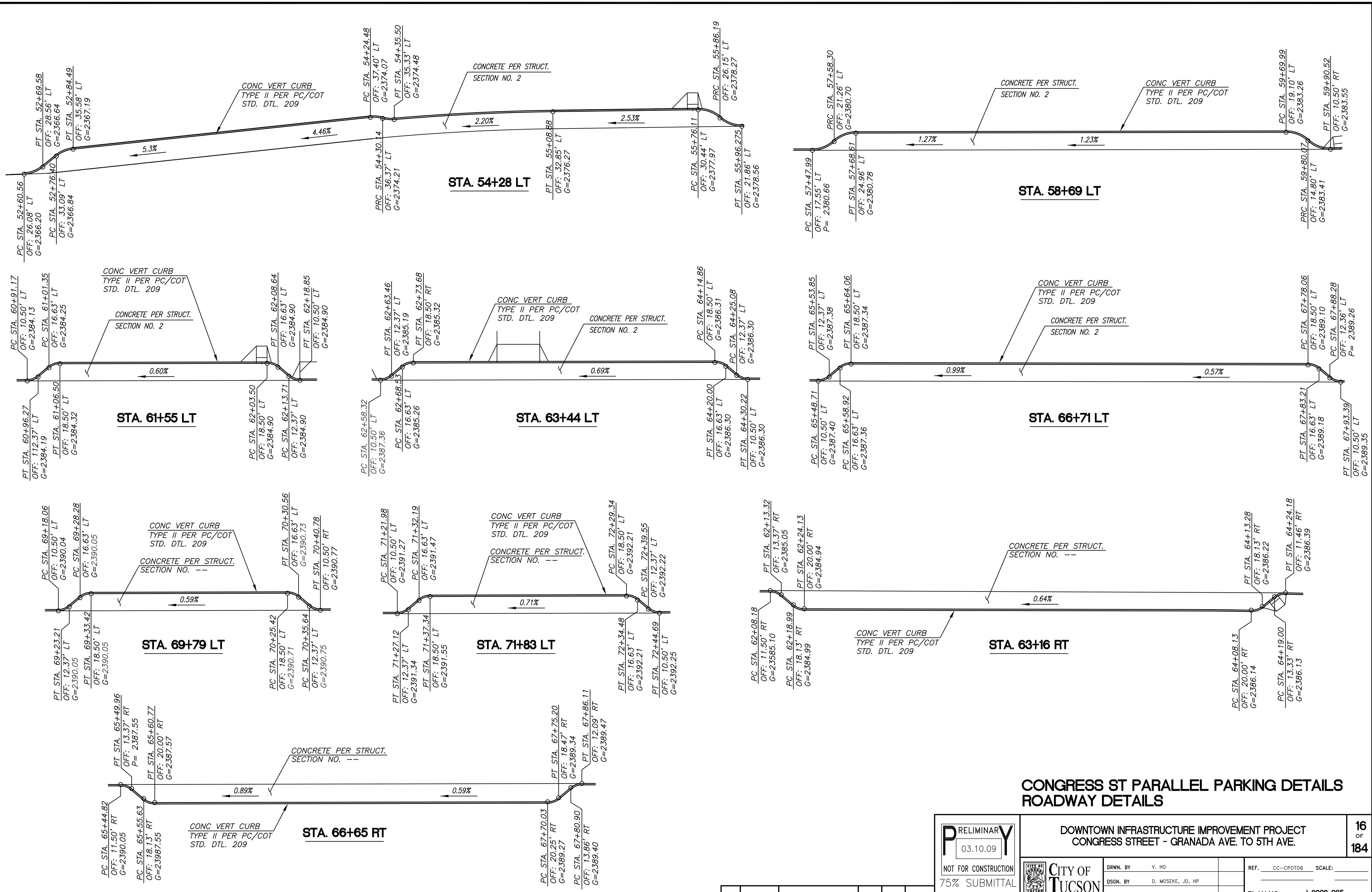
**SCOTT AVENUE DRIVEWAY DETAILS**  
**ROADWAY DETAILS**

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**P** RELIMINARY  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		15 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPD105 SCALE: _____ PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



**CONGRESS ST PARALLEL PARKING DETAILS  
 ROADWAY DETAILS**

**P** RELIMINARY  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

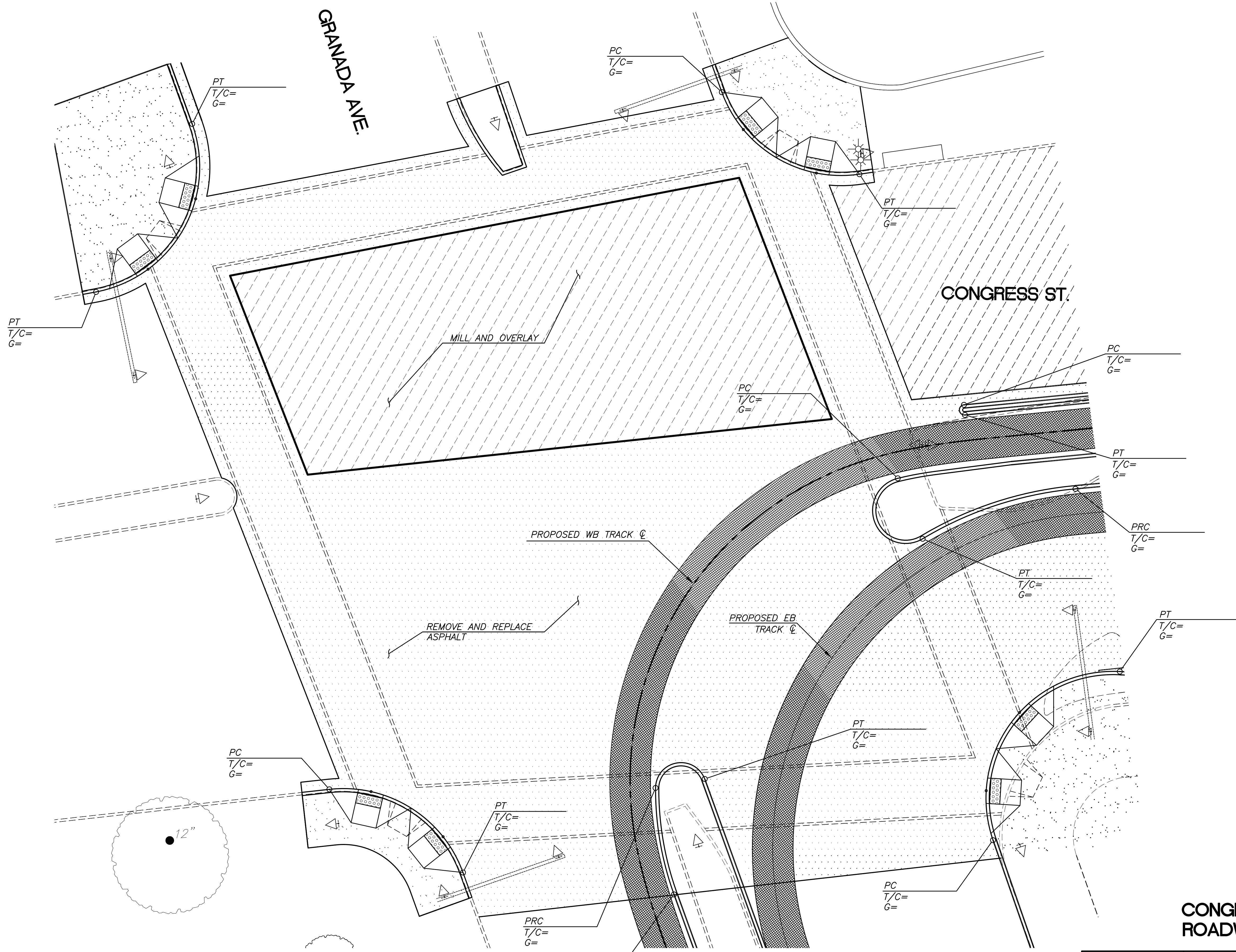
		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT		16 of 184
		CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		
DRWN. BY	V. HO	REF.	CC-CPD06	SCALE:
DSGN. BY	D. MOSEKE, JD, HP	PLAN NO.	I-2008-035	
CHKD. BY	A. BATT			

NO.	DATE	REVISION	BY	CHKD.	APPR.



GRANADA AVE.

CONGRESS ST.



CONGRESS ST + GRANADA AVE STA. 15+30.35  
SCALE 1" = 10'

NOTE: FOR STATION & OFFSET LOCATIONS TO PCs, PRCs, AND PTs SEE GEOMETRIC LAYOUT PLAN SEE DWG. CC-CPGN08

CONGRESS STREET INTERSECTION DETAILS  
ROADWAY DETAILS

**P** RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

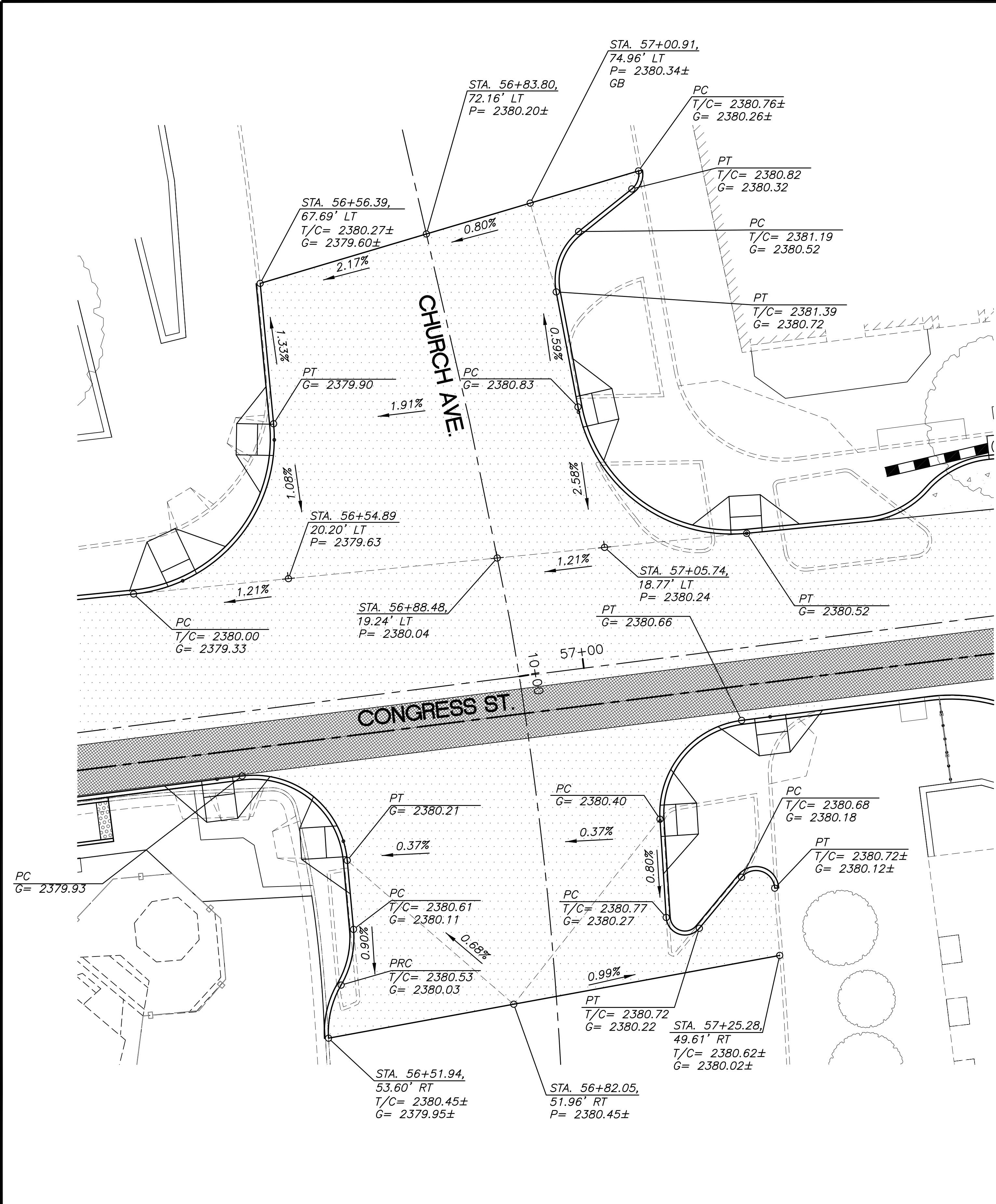
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

17  
of  
184

DRWN. BY	V. HO	REF.	CC-CPDT07	SCALE:	
DSGN. BY	D. MOSEKE, JD, HP				
CHKD. BY	A. BATT	PLAN NO.	I-2008-035		

NO.	DATE	REVISION	BY	CHKD.	APPR.

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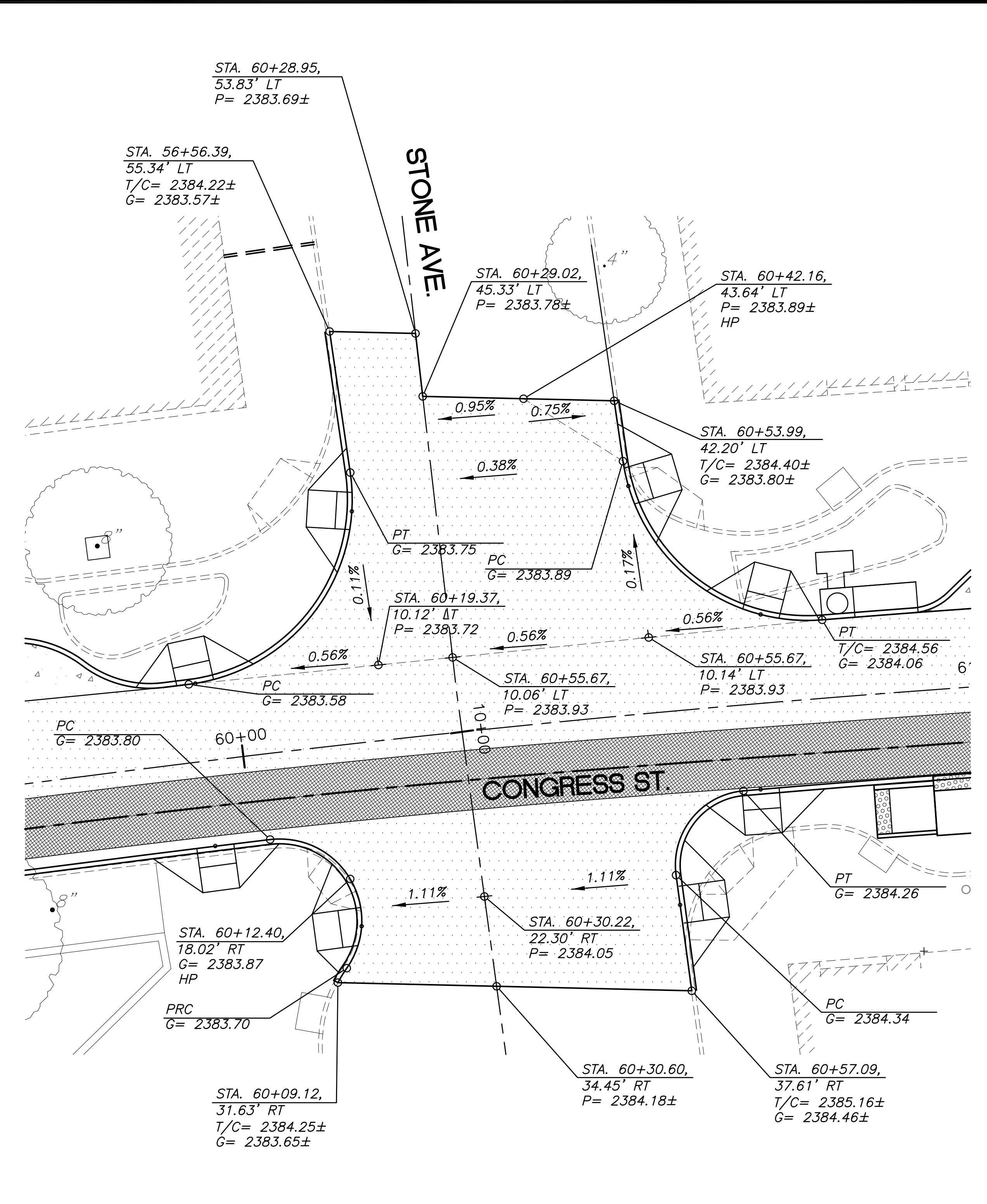


**CONGRESS ST + CHURCH AVE STA. 56+89.58**

SCALE 1" = 10'

NOTE: FOR STATION & OFFSET LOCATIONS TO PCs, PRCs, AND PTs SEE GEOMETRIC LAYOUT PLAN SEE DWG. CC-CPGN08

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 Status: - Manual



**CONGRESS ST + STONE AVE STA. 60+29.66**

SCALE 1" = 10'

NOTE: FOR STATION & OFFSET LOCATIONS TO PCs, PRCs, AND PTs SEE GEOMETRIC LAYOUT PLAN SEE DWG. CC-CPGN09

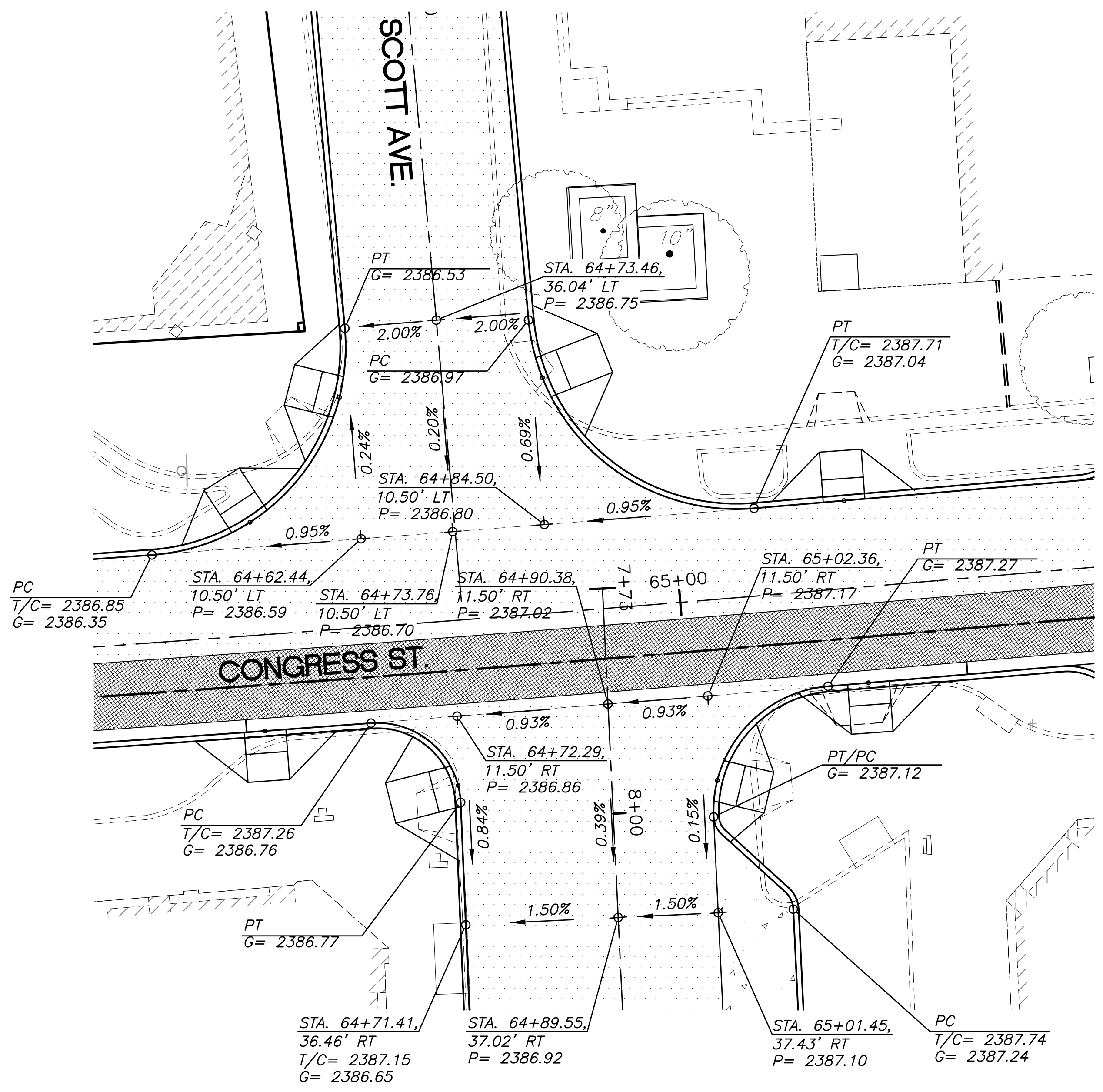
**P** RELIMINARY  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
 CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

DRWN. BY V. HO  
 DSGN. BY D. MOSEKE, JD. HP  
 CHKD. BY A. BATT

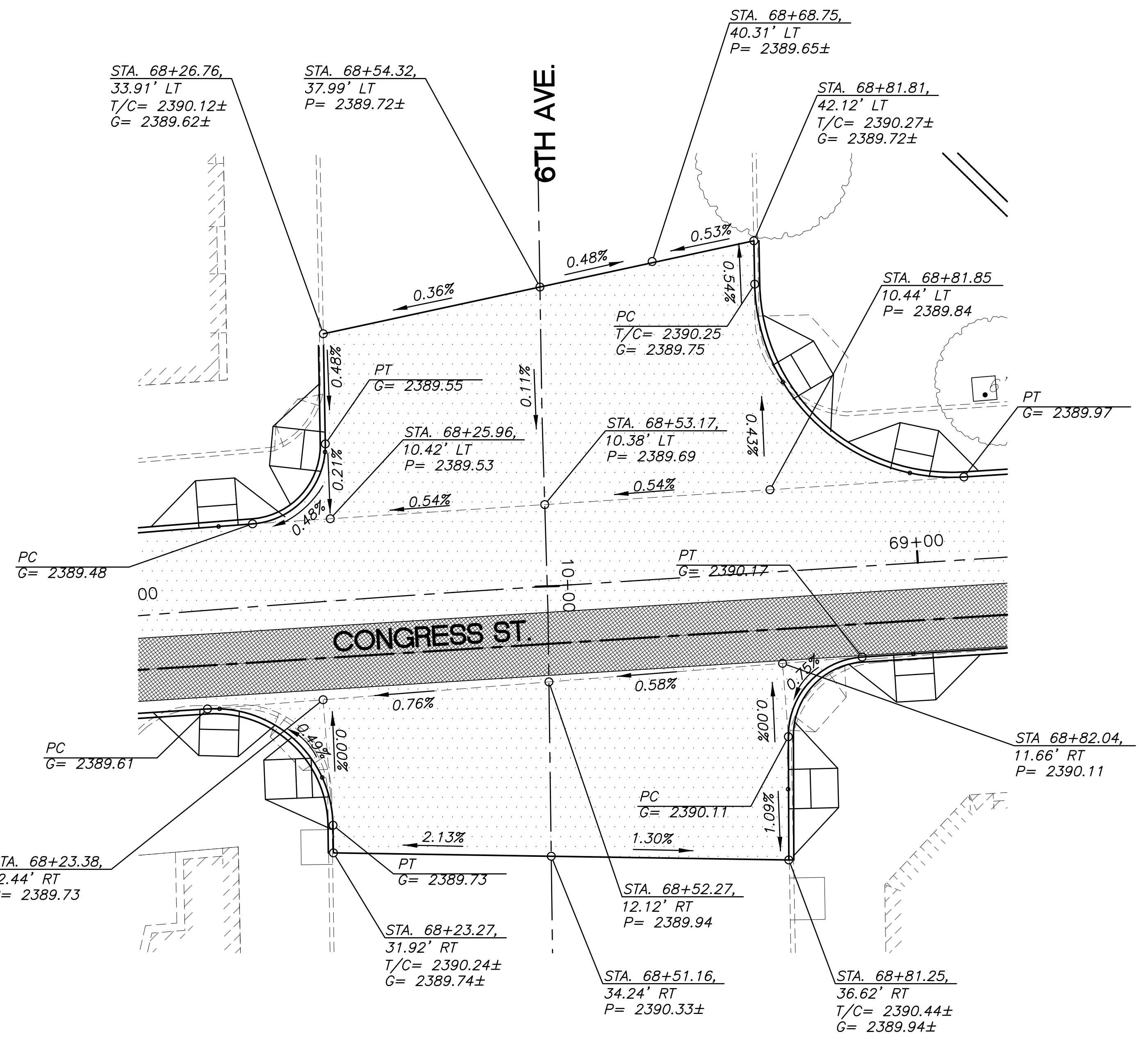
REF. CC-CPDT08 SCALE: \_\_\_\_\_  
 PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



**CONGRESS ST + SCOTT AVE STA. 64+90.76**  
SCALE 1" = 10'

NOTE: FOR STATION & OFFSET LOCATIONS TO PCs, PRCs, AND PTs SEE GEOMETRIC LAYOUT PLAN SEE DWG. CC-CPGN09



**CONGRESS ST + 6TH AVE STA. 68+52.77**  
SCALE 1" = 10'

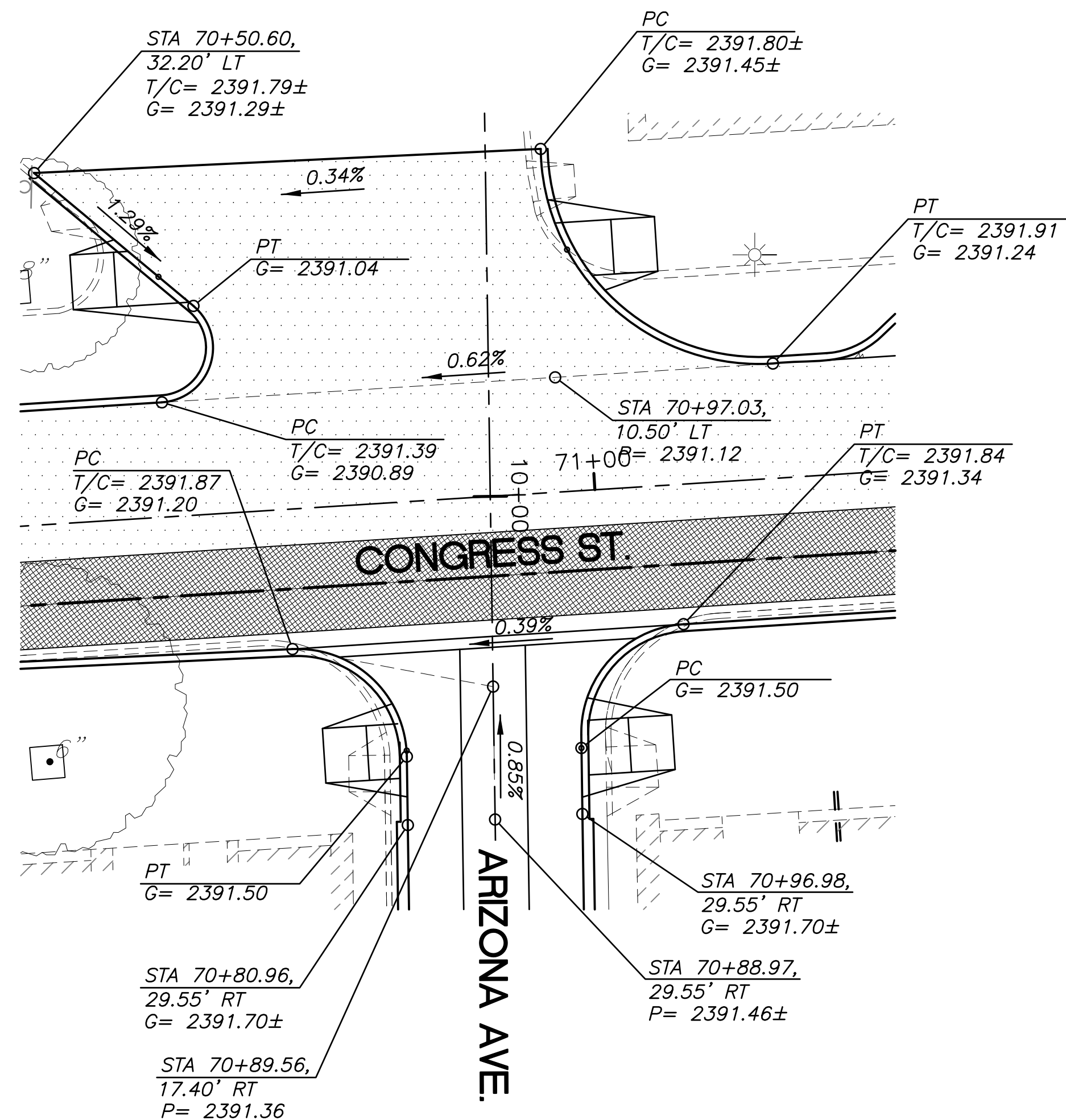
NOTE: FOR STATION & OFFSET LOCATIONS TO PCs, PRCs, AND PTs SEE GEOMETRIC LAYOUT PLAN SEE DWG. CC-CPGN09

**CONGRESS STREET INTERSECTION DETAILS  
ROADWAY DETAILS**

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<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		19 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPDT09 SCALE: _____ PLAN NO. I-2008-035	

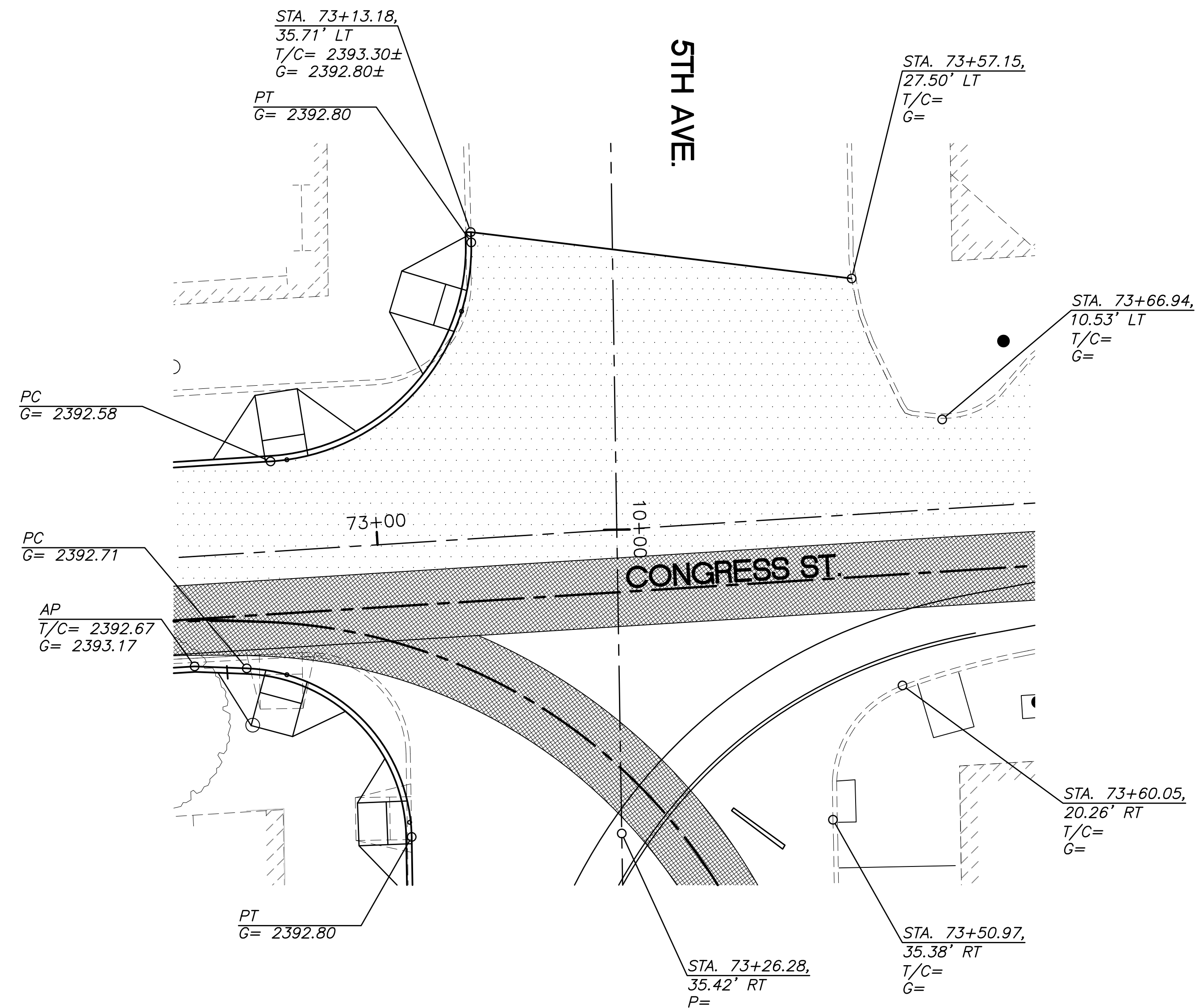
NO.	DATE	REVISION	BY	CHKD.	APPR.



**CONGRESS ST + ARIZONA AVE STA. 70+90.41**

SCALE 1" = 10'

NOTE: FOR STATION & OFFSET LOCATIONS TO PCs, PRCs, AND PTs SEE GEOMETRIC LAYOUT PLAN SEE DWG. CC-CPGN09



**CONGRESS ST + 5TH AVE STA. 73+27.96**

SCALE 1" = 10'

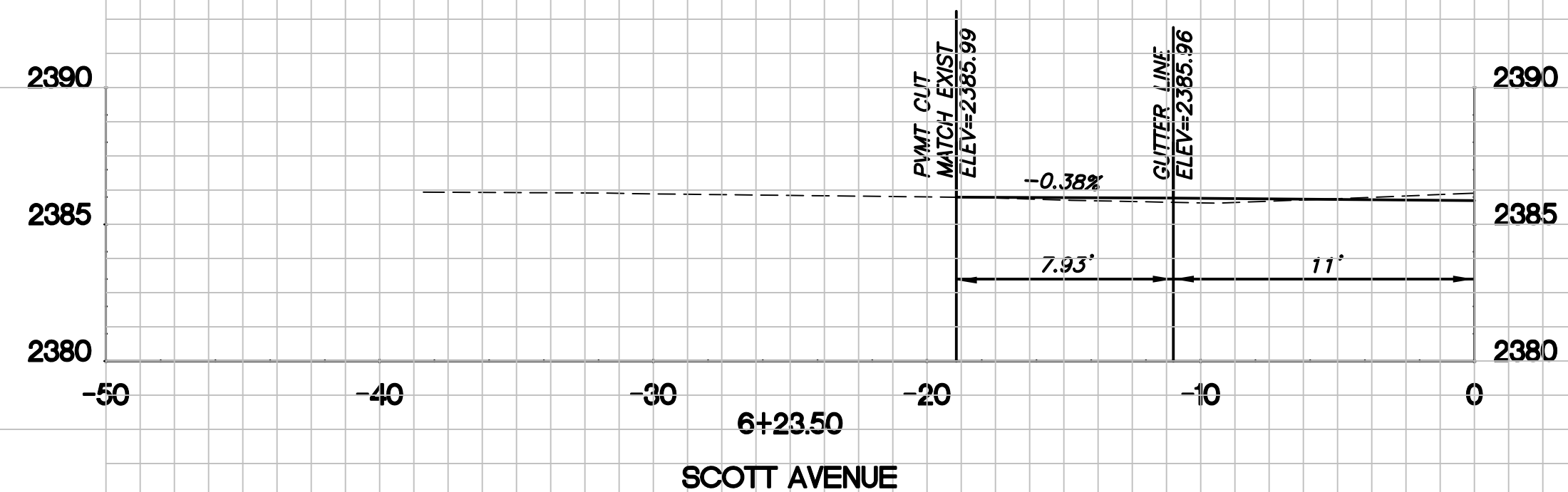
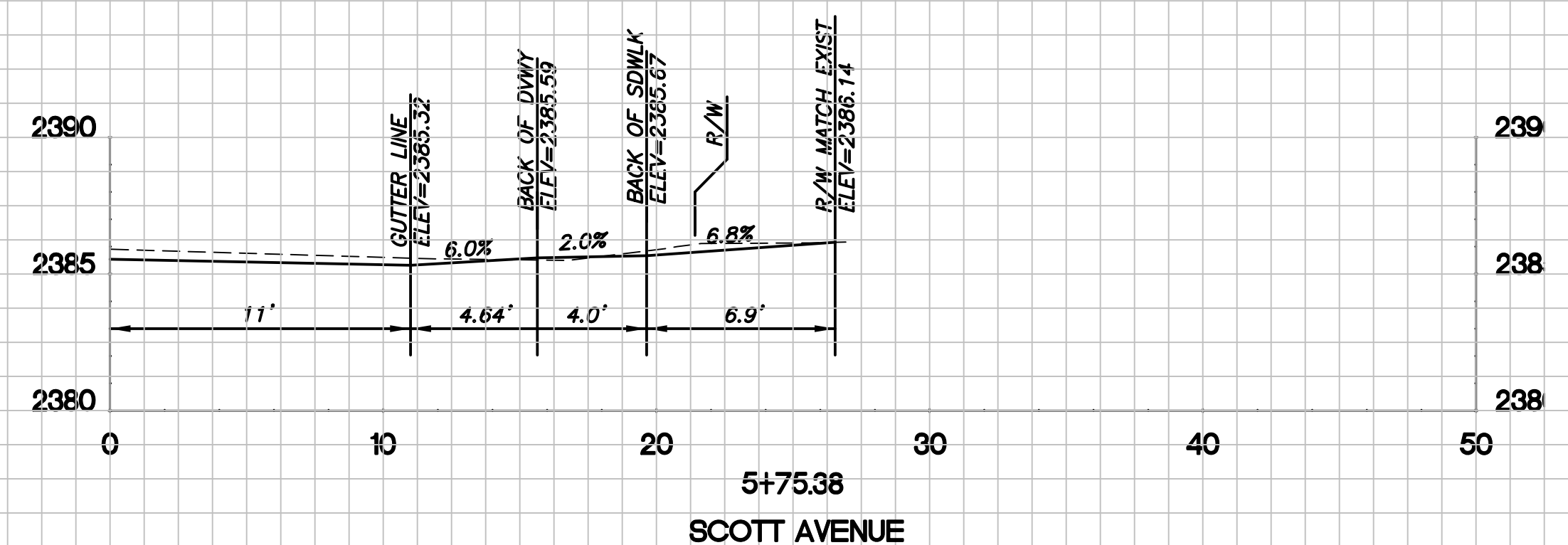
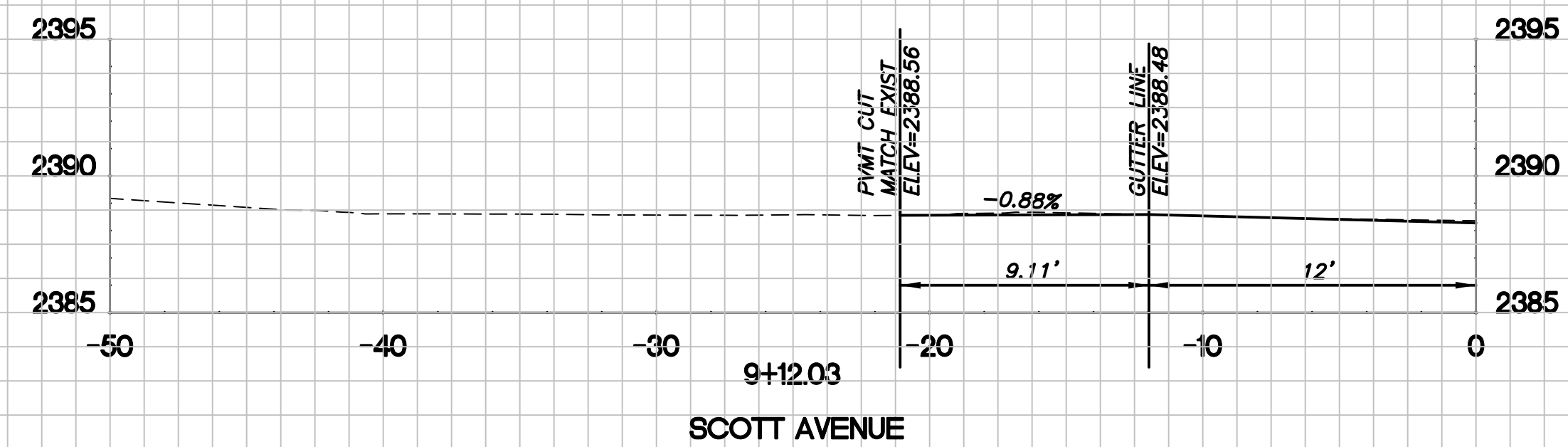
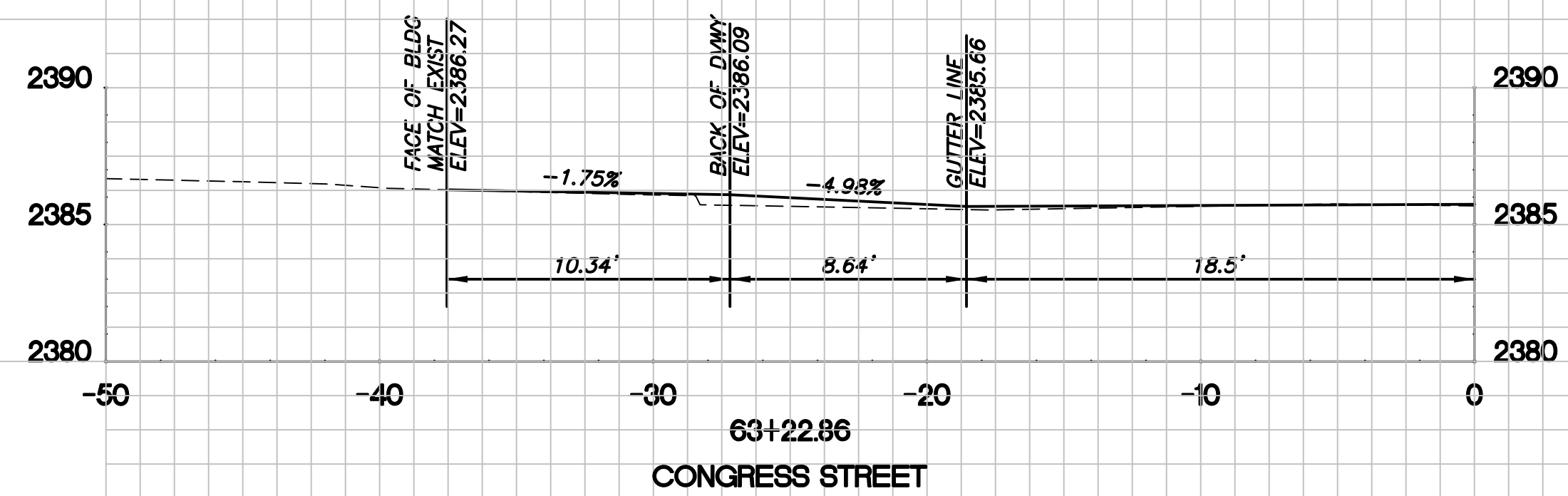
NOTE: FOR STATION & OFFSET LOCATIONS TO PCs, PRCs, AND PTs SEE GEOMETRIC LAYOUT PLAN SEE DWG. CC-CPGN09

**CONGRESS STREET INTERSECTION DETAILS  
ROADWAY DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		20 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPDT10 SCALE: _____ PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

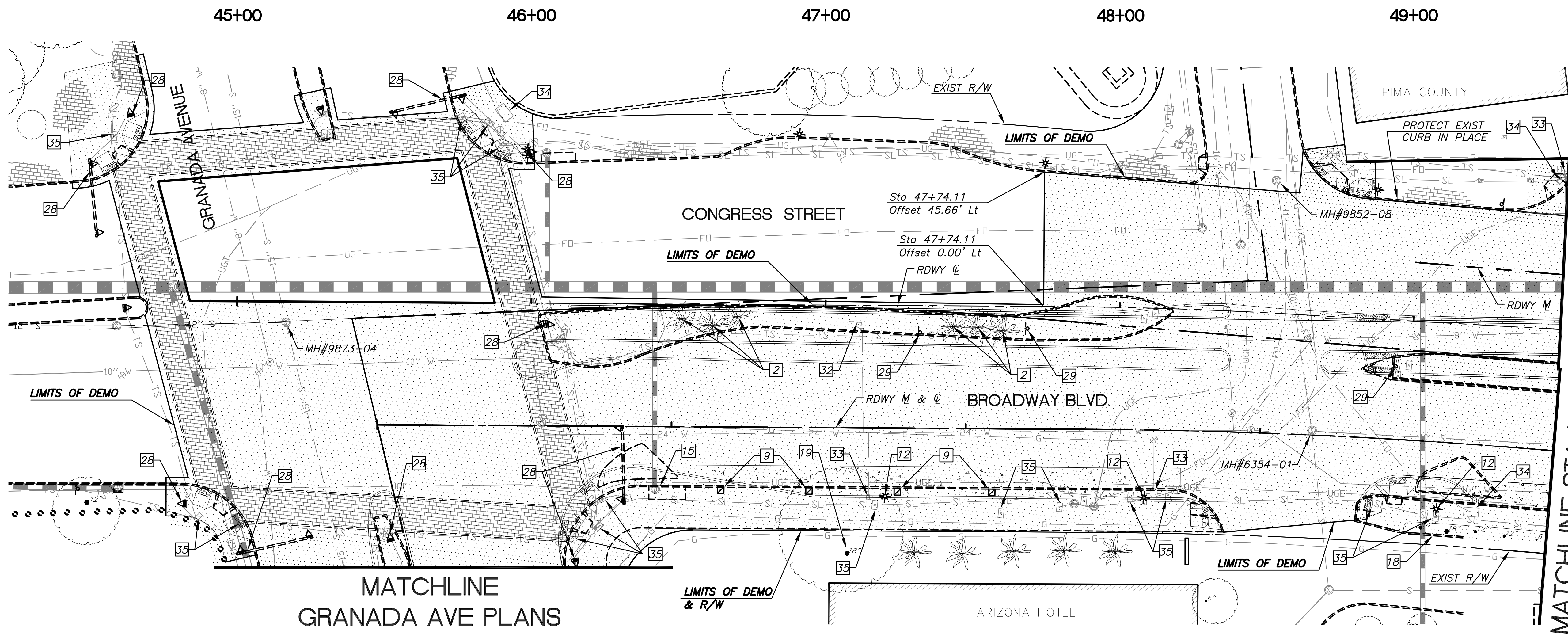
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 Shrike - Mmcdab



**DRIVEWAY PROFILES  
ROADWAY DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		21 OF 184
		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPDT11 SCALE: PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 14+00 MATCHLINE STA 49+50  
 SEE DWG. BC-DPPL02 SEE DWG. CC-DPPL02

MATCHLINE  
GRANADA AVE PLANS

REMOVAL NOTES	
2	REMOVE EXIST PALM TREES.
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
12	REMOVE EXISTING COT SHOEBOX STYLE LIGHT POLE (250W, HPS, 480V) AND SALVAGE TO COT ELECTRIC SHOP.
15	REMOVE EXISTING CATCH BASIN.
18	PROTECT EXISTING WALL IN-PLACE.
19	EXISTING TREE - PROTECT IN PLACE.
28	REMOVE & SALVAGE EXIST. SIGNAL & EQUIP. SEE SIGNAL PLANS.

REMOVAL NOTES	
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
32	REMOVE EXISTING BACKFLOW PREVENTER.
33	SEE WATER PLANS.
34	PROTECT/ADJUST EXISTING PULL BOX.
35	REMOVE EXISTING PULL BOX.

- NOTES:
- ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT-OF-WAY OR DEMO LIMITS.
  - PROTECT EXISTING TREES IN-PLACE, UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
  - PROTECT EXISTING WATER METERS AND VALVES IN-PLACE UNTIL NEW SYSTEM IS ACTIVATED.
  - SEE GENERAL NOTE NO.37 ON DWG. CC-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
  - GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

**DEMOLITION PLAN**

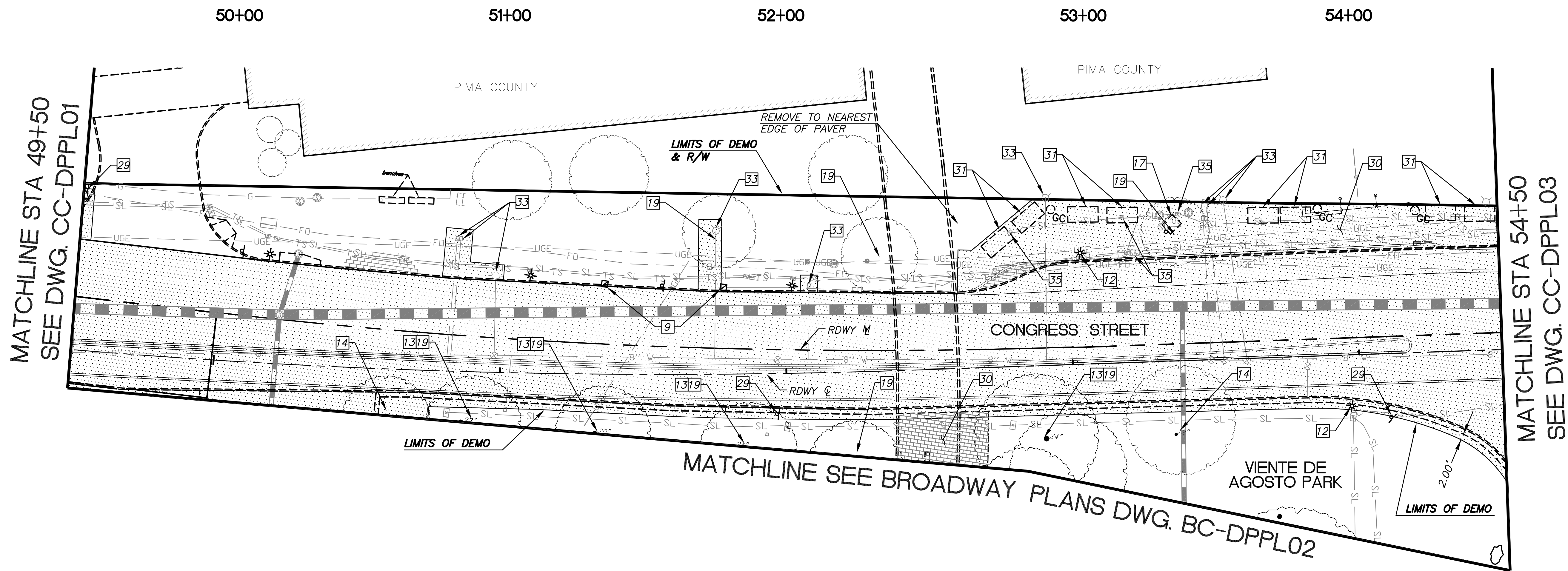
TWO WORKING DAYS BEFORE YOU DIG CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT  
USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORGONE UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THE INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**P** PRELIMINARY  
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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		22 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-DPPL01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Shrike - Momo.cib  
 Moseke, Doug



MATCHLINE STA 49+50  
SEE DWG. CC-DPPL01

MATCHLINE STA 54+50  
SEE DWG. CC-DPPL03

REMOVAL NOTES	
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
12	REMOVE EXISTING COT SHOEBOX STYLE LIGHT POLE (250W, HPS, 480V) AND SALVAGE TO COT ELECTRIC SHOP.
13	PRUNE EXISTING TREE PER SPECIAL PROVISIONS.
14	REMOVE EXISTING TREE.
19	EXISTING TREE - PROTECT IN PLACE.
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.

REMOVAL NOTES	
30	PROTECT IN PLACE EXISTING BRICK PAVERS. REMOVE, SALVAGE, AND REPLACE AS NEEDED WITH CURB CONSTRUCTION.
31	REMOVE, SALVAGE, AND REPLACE EXISTING BUS SHELTER AND APPURTANANCES.
33	SEE WATER PLANS.
34	PROTECT/ADJUST EXISTING PULL BOX.
35	REMOVE EXISTING PULL BOX.

- NOTES:
1. ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT-OF-WAY OR DEMO LIMITS.
  2. PROTECT EXISTING TREES IN-PLACE, UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
  3. PROTECT EXISTING WATER METERS AND VALVES IN-PLACE UNTIL NEW SYSTEM IS ACTIVATED.
  4. SEE GENERAL NOTE NO.37 ON DWG. CC-CPG02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
  5. GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

**DEMOLITION PLAN**

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

23  
OF  
184

TWO WORKING DAYS BEFORE YOU DIG  
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1-800-782-5348  
BLUE STAKE CENTER  
CALL & COLLECT

PRELIMINARY  
03.10.09  
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100% SUBMITTAL

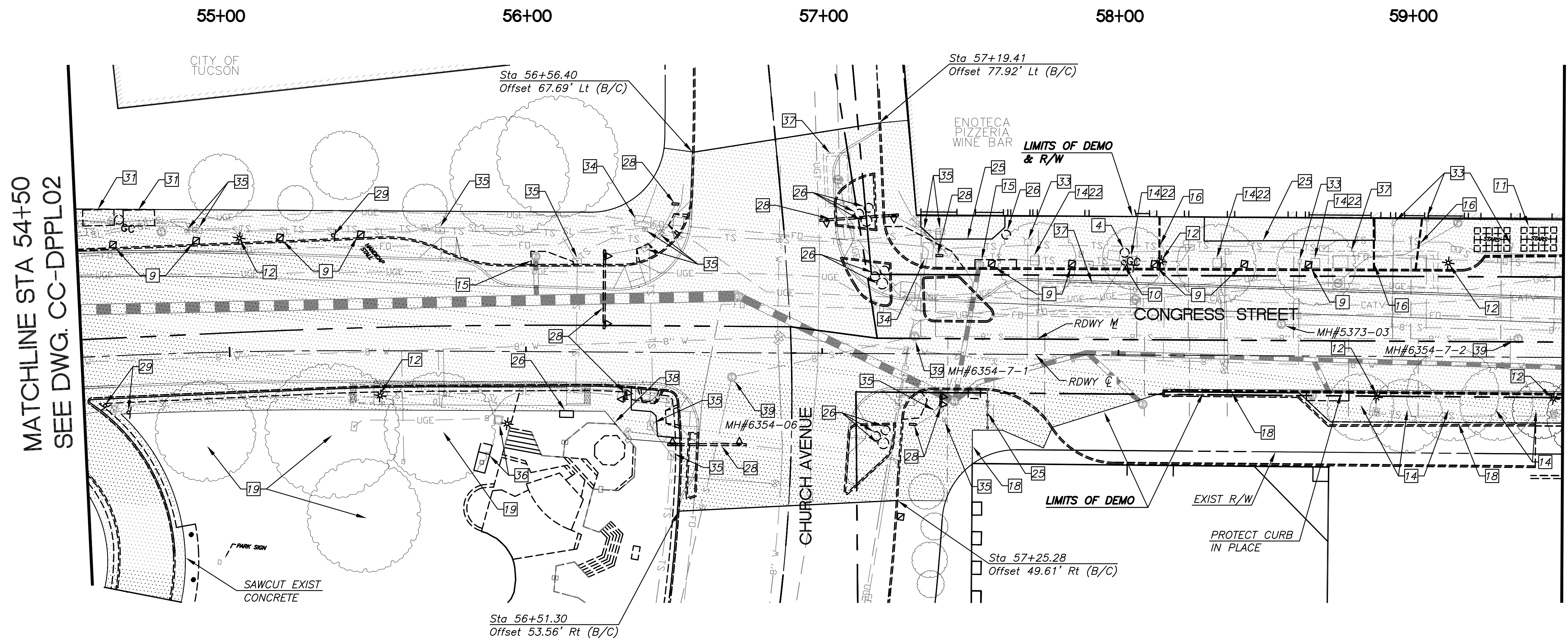


DRWN. BY V. HO  
DSGN. BY D. MOSEKE, JD, HP  
CHKD. BY A. BATT

REF. CC-DPPL02 SCALE: 1"=20'  
PLAN NO. I-2008-035

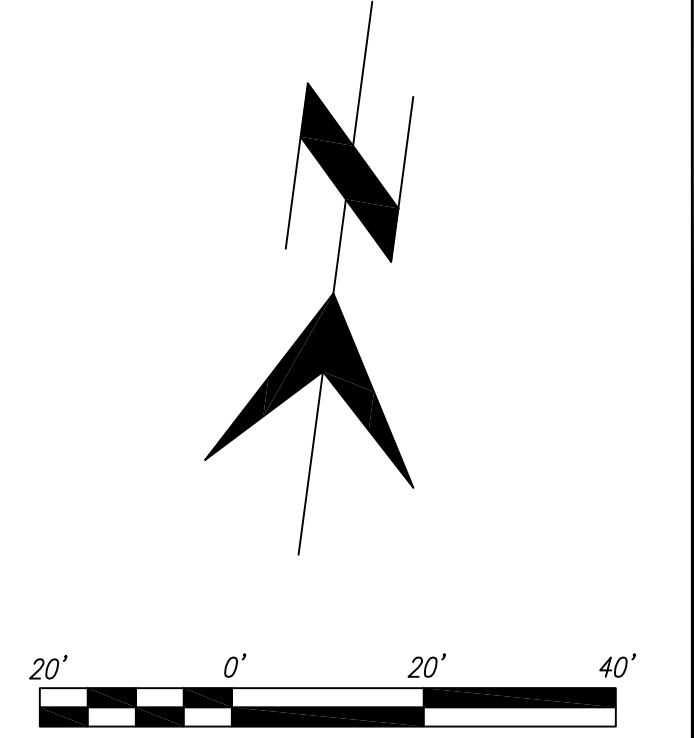
NO.	DATE	REVISION	BY	CHKD.	APPR.

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Shane - Momo.tb  
Moses, Doug



MATCHLINE STA 54+50  
SEE DWG. CC-DPPL02

MATCHLINE STA 59+50  
SEE DWG. CC-DPPL04



REMOVAL NOTES	
4	REMOVE & SALVAGE EXISTING TRASH RECEPTACLE.
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
10	REMOVE AND SALVAGE EXISTING ASH TRAY.
11	REMOVE & SALVAGE FOX THEATRE STARS.
12	REMOVE EXISTING COT SHOEBOX STYLE LIGHT POLE (250W, HPS, 480V) AND SALVAGE TO COT ELECTRIC SHOP.
14	REMOVE EXISTING TREE.
15	REMOVE EXISTING CATCH BASIN.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.
18	PROTECT EXISTING WALL IN-PLACE.
19	EXISTING TREE - PROTECT IN PLACE.
22	REMOVE & SALVAGE EXISTING TREE GRATE.

REMOVAL NOTES	
25	REMOVE, SALVAGE & REPLACE EXISTING HANDRAIL
26	REMOVE, CLEAN & SALVAGE EXISTING PLANTER.
28	REMOVE & SALVAGE EXIST. SIGNAL & EQUIP. SEE SIGNAL PLANS.
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
31	REMOVE, SALVAGE, AND REPLACE EXISTING BUS SHELTER AND APPURTANANCES.
33	SEE WATER PLANS.
34	PROTECT/ADJUST EXISTING PULL BOX.
35	REMOVE EXISTING PULL BOX.
36	PROTECT EXISTING CABINET IN PLACE.
37	PROTECT EXISTING VAULT IN PLACE.
39	REMOVE EXISTING SEWER MANHOLE. SEE SANITARY SEWER PLANS.

- NOTES:
- ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT OF WAY OR DEMO LIMITS.
  - PROTECT EXISTING TREES IN-PLACE, UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
  - PROTECT EXISTING WATER METERS AND VALVES IN-PLACE UNTIL NEW SYSTEM IS ACTIVATED.
  - SEE GENERAL NOTE NO.37 ON DWG. CC-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
  - GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

**DEMOLITION PLAN**

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BLUE STAKE CENTER  
CALL TO COLLECT

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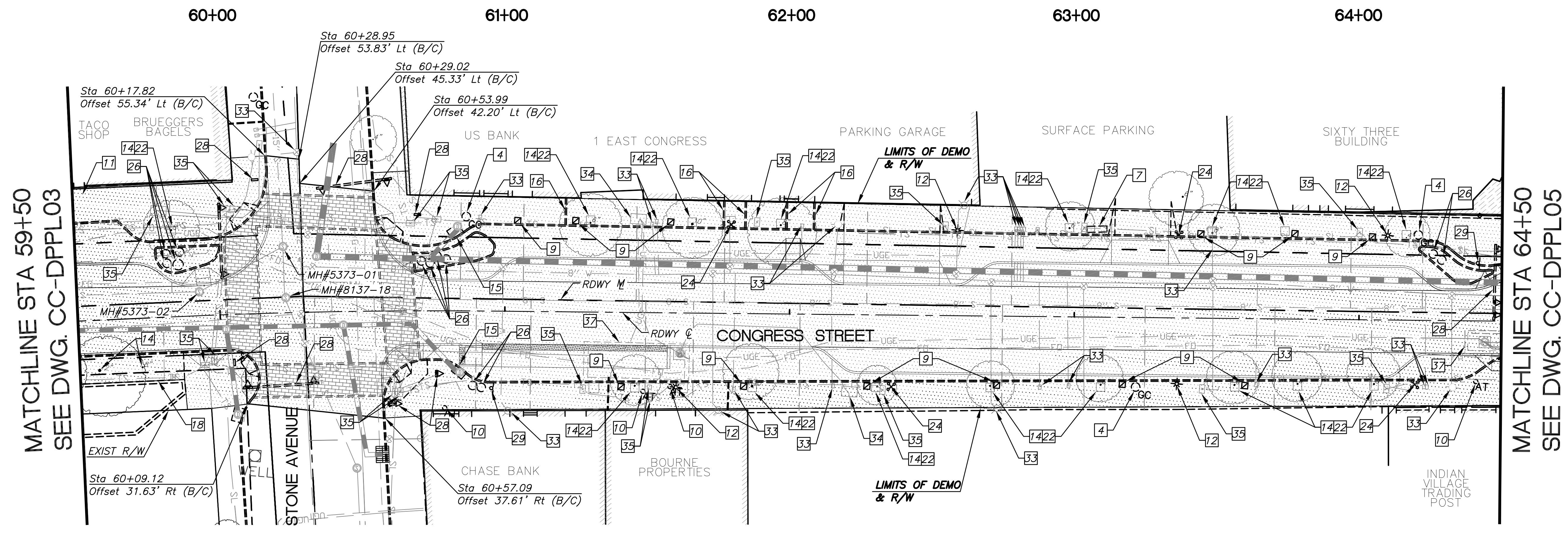
**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
100% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		24 OF 184
DRWN. BY V. HO	REF. CC-DPPL03	SCALE: 1"=20'
DSGN. BY D. MOSEKE, JD, HP	CITY OF TUCSON	
CHKD. BY A. BATT	PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

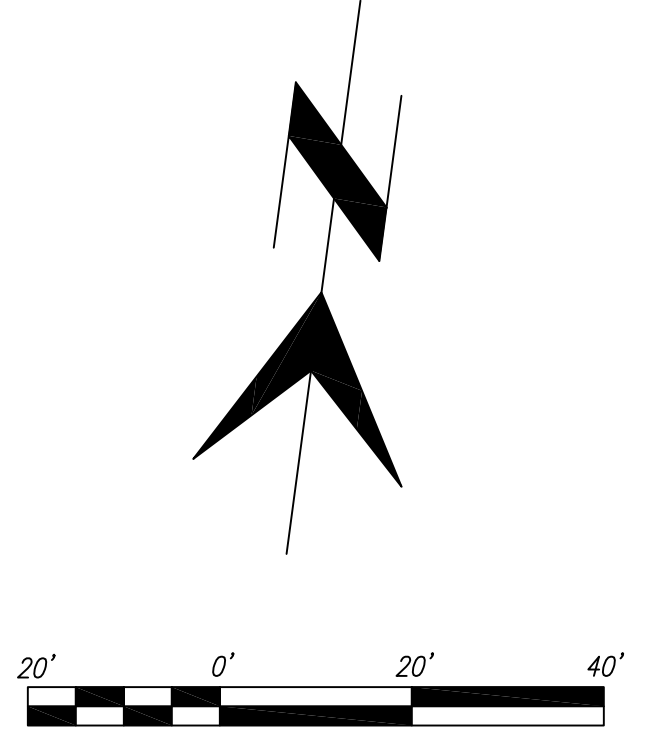
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 Shante - Momo





MATCHLINE STA 59+50  
SEE DWG. CC-DPPL03

MATCHLINE STA 64+50  
SEE DWG. CC-DPPL05



REMOVAL NOTES	
4	REMOVE & SALVAGE EXISTING TRASH RECEPTACLE.
7	REMOVE & SALVAGE EXISTING BENCH.
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
10	REMOVE AND SALVAGE EXISTING ASH TRAY.
11	REMOVE & SALVAGE FOX THEATRE STARS.
12	REMOVE EXISTING COT SHOEBOX STYLE LIGHT POLE (250W, HPS, 480V) AND SALVAGE TO COT ELECTRIC SHOP.
14	REMOVE EXISTING TREE.
15	REMOVE EXISTING CATCH BASIN.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.
18	PROTECT EXISTING WALL IN-PLACE.

REMOVAL NOTES	
19	EXISTING TREE - PROTECT IN PLACE.
22	REMOVE & SALVAGE EXISTING TREE GRATE.
24	REMOVE EXISTING 5-GLOBE HISTORIC LIGHT AND SALVAGE TO COT ELECTRIC SHOP.
26	REMOVE, CLEAN & SALVAGE EXISTING PLANTER.
28	REMOVE & SALVAGE EXIST. SIGNAL & EQUIP. SEE SIGNAL PLANS.
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
33	SEE WATER PLANS.
34	PROTECT/ADJUST EXISTING PULL BOX.
35	REMOVE EXISTING PULL BOX.
37	PROTECT EXISTING VAULT IN PLACE.

- NOTES:
- ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT-OF-WAY OR DEMO LIMITS.
  - PROTECT EXISTING TREES IN-PLACE, UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
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  - SEE GENERAL NOTE NO.37 ON DWG. CC-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
  - GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

**DEMOLITION PLAN**

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

25  
OF  
184

TWO WORKING DAYS BEFORE YOU DIG  
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BLUE STAKE CENTER  
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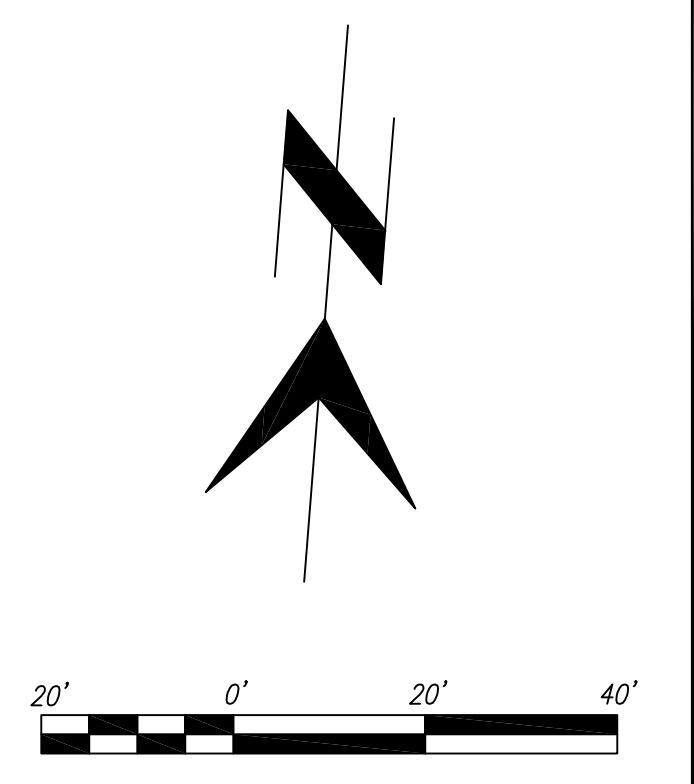
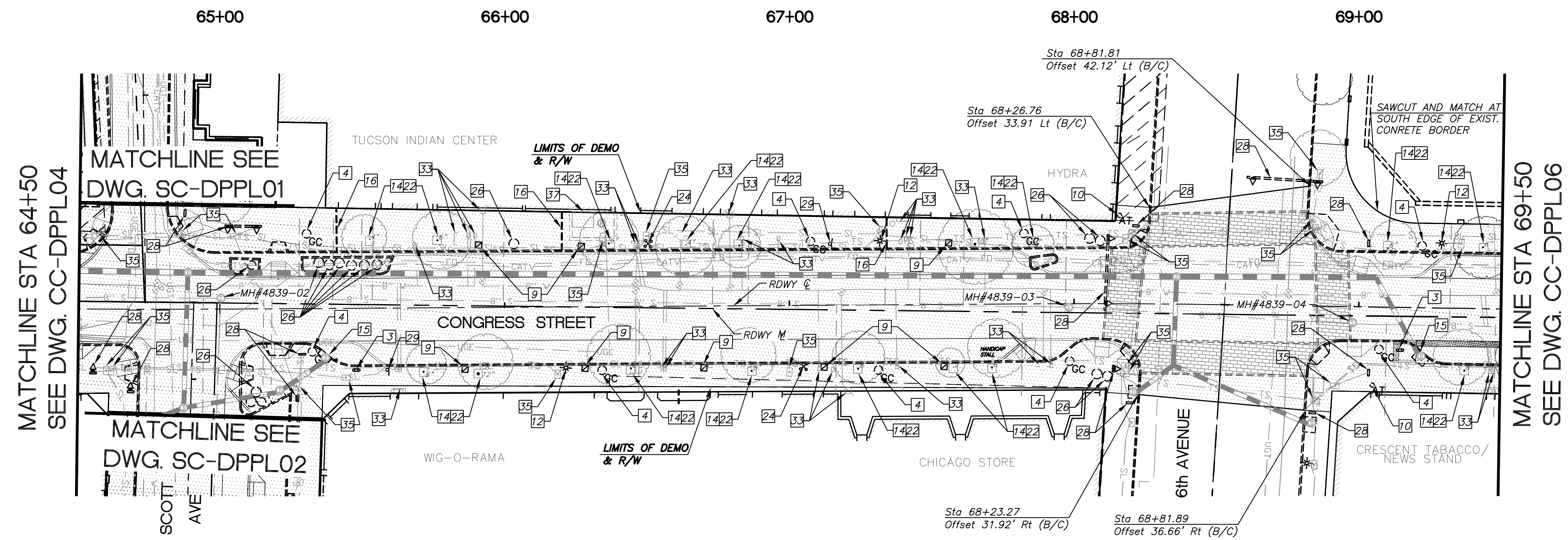
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03.10.09  
NOT FOR CONSTRUCTION  
100% SUBMITTAL

CITY OF TUCSON  
DRWN. BY V. HO  
DSGN. BY D. MOSEKE, JD, HP  
CHKD. BY A. BATT

REF. CC-DPPL04 SCALE: 1"=20'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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MATCHLINE STA 64+50  
SEE DWG. CC-DPPL04

MATCHLINE STA 69+50  
SEE DWG. CC-DPPL06

REMOVAL NOTES	
3	REMOVE & SALVAGE EXIST BIKE RACK
4	REMOVE & SALVAGE EXISTING TRASH RECEPTACLE.
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
10	REMOVE AND SALVAGE EXISTING ASH TRAY.
12	REMOVE EXISTING COT SHOEBOX STYLE LIGHT POLE (250W, HPS, 480V) AND SALVAGE TO COT ELECTRIC SHOP
14	REMOVE EXISTING TREE.
15	REMOVE EXISTING CATCH BASIN.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.
22	REMOVE & SALVAGE EXISTING TREE GRATE.

REMOVAL NOTES	
24	REMOVE EXISTING 5-GLOBE HISTORIC LIGHT AND SALVAGE TO COT ELECTRIC SHOP.
26	REMOVE, CLEAN & SALVAGE EXISTING PLANTER.
28	REMOVE & SALVAGE EXIST. SIGNAL & EQUIP. SEE SIGNAL PLANS.
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
33	SEE WATER PLANS.
34	PROTECT/ADJUST EXISTING PULL BOX.
35	REMOVE EXISTING PULL BOX.
37	PROTECT EXISTING VAULT IN PLACE.

- NOTES:
- ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT-OF-WAY OR DEMO LIMITS.
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  - SEE GENERAL NOTE NO.37 ON DWG. CC-CPG02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
  - GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

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100% SUBMITTAL

**DEMOLITION PLAN**

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		26 OF 184
CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-DPPL05 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

70+00

71+00

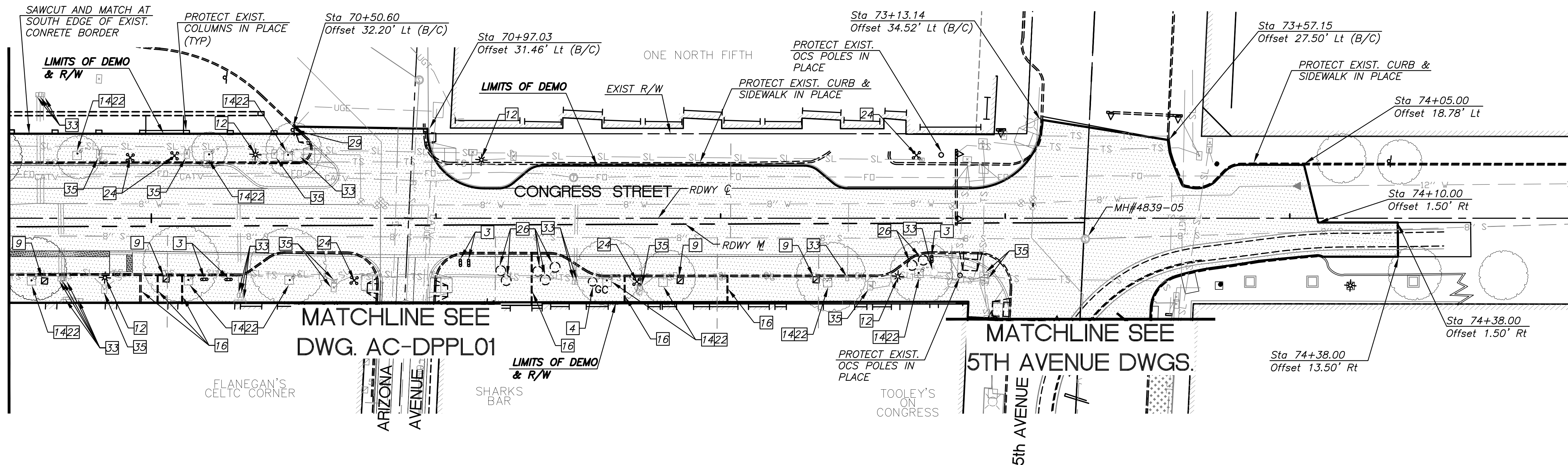
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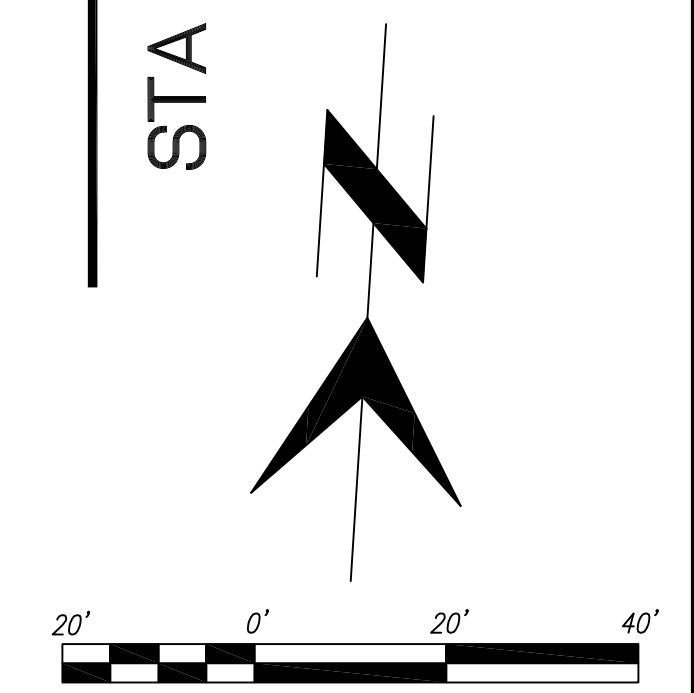
MATCHLINE STA 69+50  
SEE DWG. CC-DPPL05



MATCHLINE SEE  
DWG. AC-DPPL01

MATCHLINE SEE  
5TH AVENUE DWGS.

STA 75+00 END CONGRESS  
STREET PROJECT



REMOVAL NOTES	
3	REMOVE & SALVAGE EXIST BIKE RACK
4	REMOVE & SALVAGE EXISTING TRASH RECEPTACLE.
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
12	REMOVE EXISTING COT SHOEBOX STYLE LIGHT POLE (250W, HPS, 480V) AND SALVAGE TO COT ELECTRIC SHOP.
14	REMOVE EXISTING TREE.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.

REMOVAL NOTES	
22	REMOVE & SALVAGE EXISTING TREE GRATE.
24	REMOVE EXISTING 5-GLOBE HISTORIC LIGHT AND SALVAGE TO COT ELECTRIC SHOP.
26	REMOVE, CLEAN & SALVAGE EXISTING PLANTER.
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
33	SEE WATER PLANS.
35	REMOVE EXISTING PULL BOX.

- NOTES:
1. ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT-OF-WAY OR DEMO LIMITS.
  2. PROTECT EXISTING TREES IN-PLACE, UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
  3. PROTECT EXISTING WATER METERS AND VALVES IN-PLACE UNTIL NEW SYSTEM IS ACTIVATED.
  4. SEE GENERAL NOTE NO.37 ON DWG. CC-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
  5. GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

### DEMOLITION PLAN

TWO WORKING DAYS BEFORE YOU DIG CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORGONE UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THE INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**P**RELIMINARY  
03.10.09  
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100% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		27 OF 184
CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-DPPL06 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Shante - Momo.tb  
 Modals, Doug

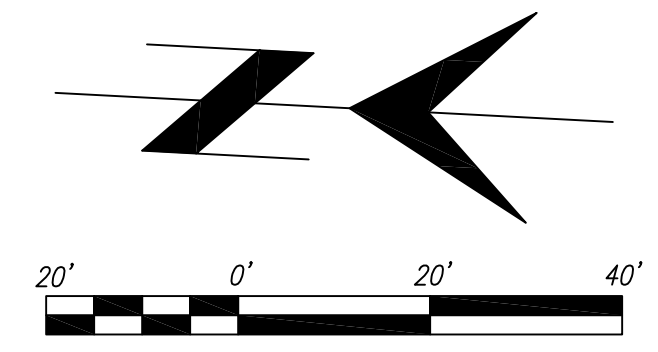
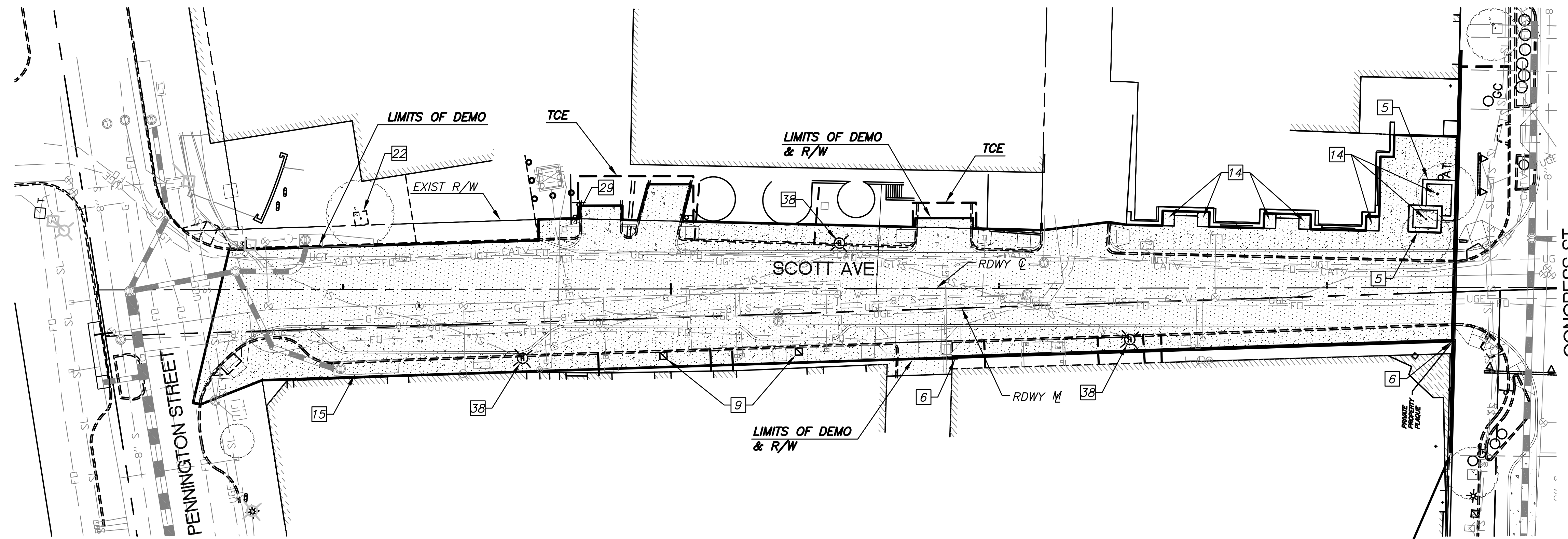
3+00

4+00

5+00

6+00

7+00



MATCHLINE SEE  
DWG. CC-CPPL05

REMOVAL NOTES	
5	REMOVE EXISTING BRICK PLANTER.
6	PRIVATE PROPERTY MARKER - REMOVE & REPLACE
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
14	REMOVE EXISTING TREE.
15	REMOVE EXISTING CATCH BASIN.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.
21	REMOVE EXISTING SURVEY MONUMENT.
22	REMOVE & SALVAGE EXISTING TREE GRATE.

REMOVAL NOTES	
23	PROTECT EXISTING BACKFLOW PREVENTER IN-PLACE.
26	REMOVE, CLEAN & SALVAGE EXISTING PLANTER.
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
38	REMOVE EXISTING SINGLE GLOBE HISTORIC LIGHT AND SALVAGE TO COT ELECTRIC SHOP.

NOTES:

1. ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT OF WAY OR DEMO LIMITS.
2. PROTECT EXISTING TREES IN-PLACE, UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
3. PROTECT EXISTING WATER METERS AND VALVES IN-PLACE UNTIL NEW SYSTEM IS ACTIVATED.
4. SEE GENERAL NOTE NO.37 ON DWG. CC-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
5. GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

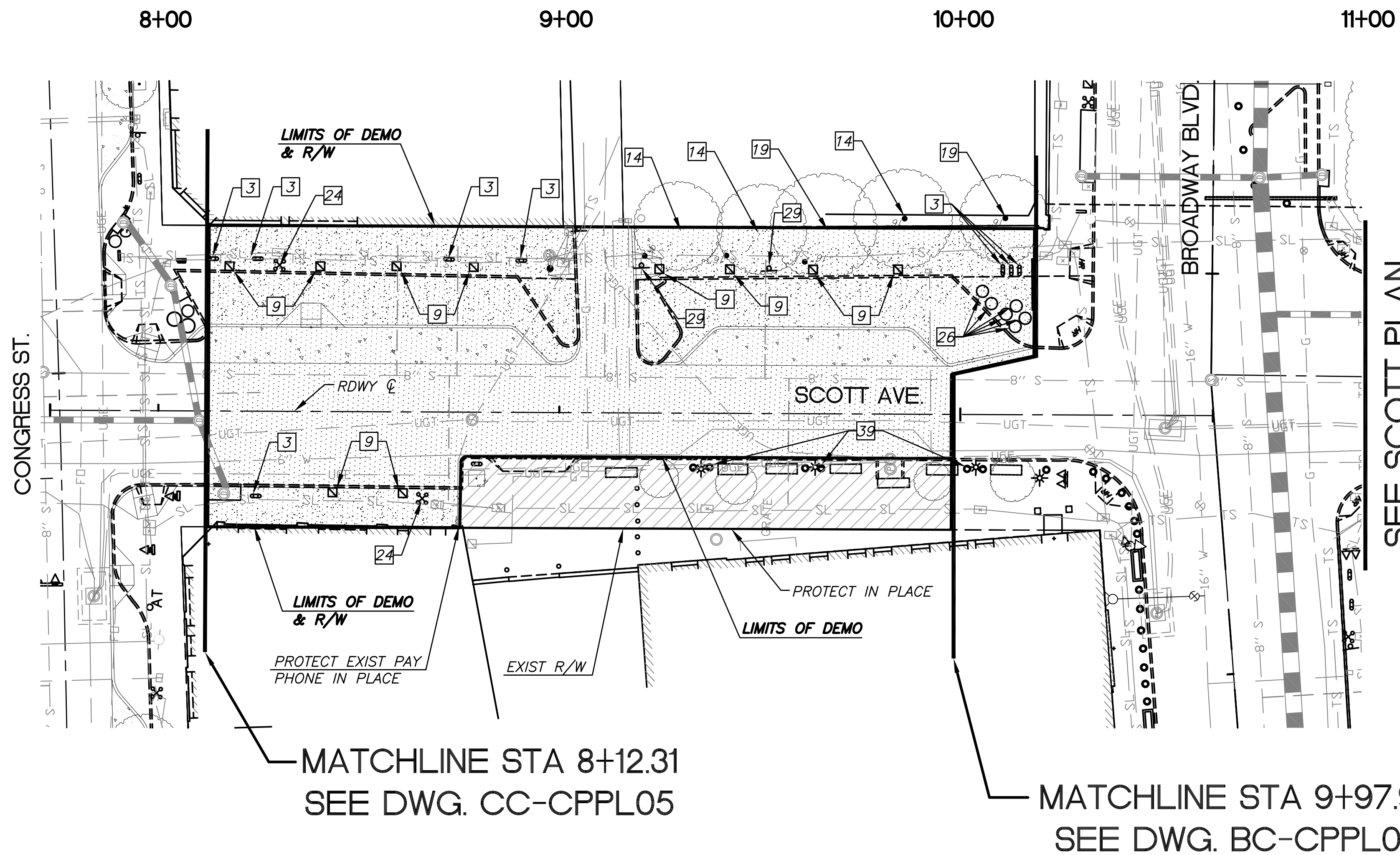
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 Moseke, Doug

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DEMOLITION PLAN

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		28 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	

NO.	DATE	REVISION	BY	CHKD.	APPR.



SEE SCOTT PLAN  
NO. I-2008-027

MATCHLINE STA 8+12.31  
SEE DWG. CC-CPPL05

MATCHLINE STA 9+97.97  
SEE DWG. BC-CPPL05

REMOVAL NOTES	
3	REMOVE & SALVAGE EXIST BIKE RACK
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
12	REMOVE EXISTING COT SHOEBOX STYLE LIGHT POLE (250W, HPS, 480V) AND SALVAGE TO COT ELECTRIC SHOP.
14	REMOVE EXISTING TREE.
15	REMOVE EXISTING CATCH BASIN.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.
19	EXISTING TREE - PROTECT IN PLACE.
20	BOLLARD / BIKE RACK - PROTECT IN PLACE.
21	REMOVE EXISTING SURVEY MONUMENT.

REMOVAL NOTES	
22	REMOVE & SALVAGE EXISTING TREE GRATE.
23	PROTECT EXISTING BACKFLOW PREVENTER IN-PLACE.
24	REMOVE EXISTING 5-GLOBE HISTORIC LIGHT AND SALVAGE TO COT ELECTRIC SHOP.
26	REMOVE, CLEAN & SALVAGE EXISTING PLANTER.
27	REMOVE EXISTING SCUPPER.
29	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
39	REMOVE EXISTING TWO GLOBE HISTORIC LIGHT AND SALVAGE TO COT ELECTRIC SHOP.

- NOTES:
1. ALL CONCRETE, ASPHALT, PAVERS, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE. DEMO TO OCCUR IN TWO PHASES. PHASE 1 INCLUDES ROADWAY DEMO (FACE OF CURB TO FACE OF CURB). PHASE 2 INCLUDES DEMO FROM FACE OF CURB TO RIGHT OF WAY OR DEMO LIMITS.
  2. PROTECT EXISTING TREES IN-PLACE, UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
  3. PROTECT EXISTING WATER METERS AND VALVES IN-PLACE UNTIL NEW SYSTEM IS ACTIVATED.
  4. SEE GENERAL NOTE NO.37 ON DWG. CC-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY.
  5. GEOTECHNICAL REPORT INDICATES 12" OF EXISTING CONCRETE BELOW ASPHALT BETWEEN 5TH AVE. CHURCH AVE.

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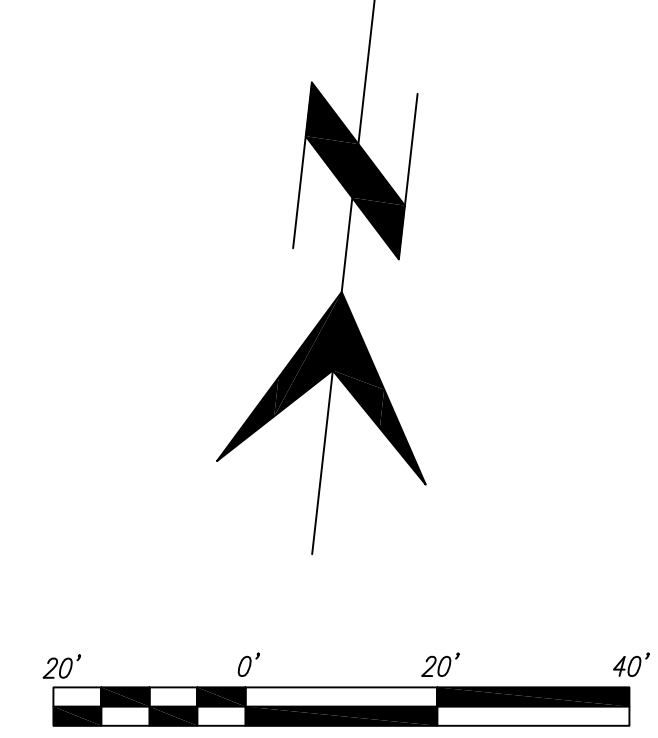
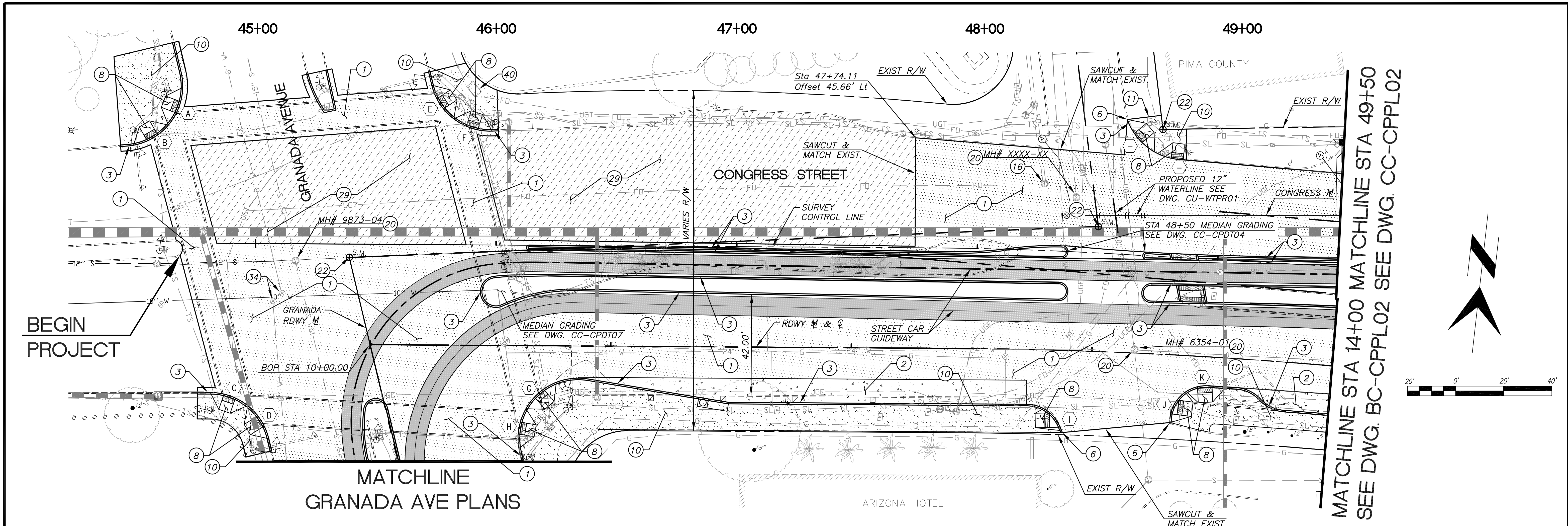
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 BLUE STAKES CENTER  
 CALL / COLLECT  
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 100% SUBMITTAL

**DEMOLITION PLAN**

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		29 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. SC-DPPL02 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
⑥	CONC. CURB NEW TO EXIST CONNECTION PC/COT STD. DTL. 211
⑧	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DWG. CC-CPDT02.
⑩	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
⑪	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑯	ADJUST EXIST TELEPHONE MANHOLE (BY OTHERS)
⑳	ADJUST SANITARY SEWER MH COVER, PC/WWM DTL. 305
㉒	SURVEY MONUMENT, PC/COT STD. DTL. 103
㉔	ADJUST EXISTING VALVE BOX AND COVER
㉖	PVMT STRUCTURAL SEC. NO. 5
㉘	ADJUST EXISTING PULL BOX BY OTHERS

SIDEWALK RAMP ACCESS CONTROL		
ID	STATION	OFFSET
A	-	-
B	-	-
C	-	-
D	-	-
E	45+76.26	58.46' Lt
F	45+89.63	48.43' Lt
G	10+70.26	19.60' Rt
H	10+62.13	34.20' Rt
I	12+86.02	29.00' Rt
J	13+34.87	21.54' Rt
K	13+47.65	12.06' Rt
L	-	-
M	-	-

SANITARY MANHOLE RIM ADJUSTMENT		
IMS #	EXISTING	PROPOSED
9873-04	2355.35	-
-	2361.62	-
9852-08	2361.65	-
6354-01	2362.00	-

BROADWAY BOULEVARD CONSTRUCTION NOTES INCLUDED FOR INFORMATION PURPOSES. FINAL DESIGN TO BE INCLUDED WITH BROADWAY BOULEVARD PLANS.

**ROADWAY PLAN**

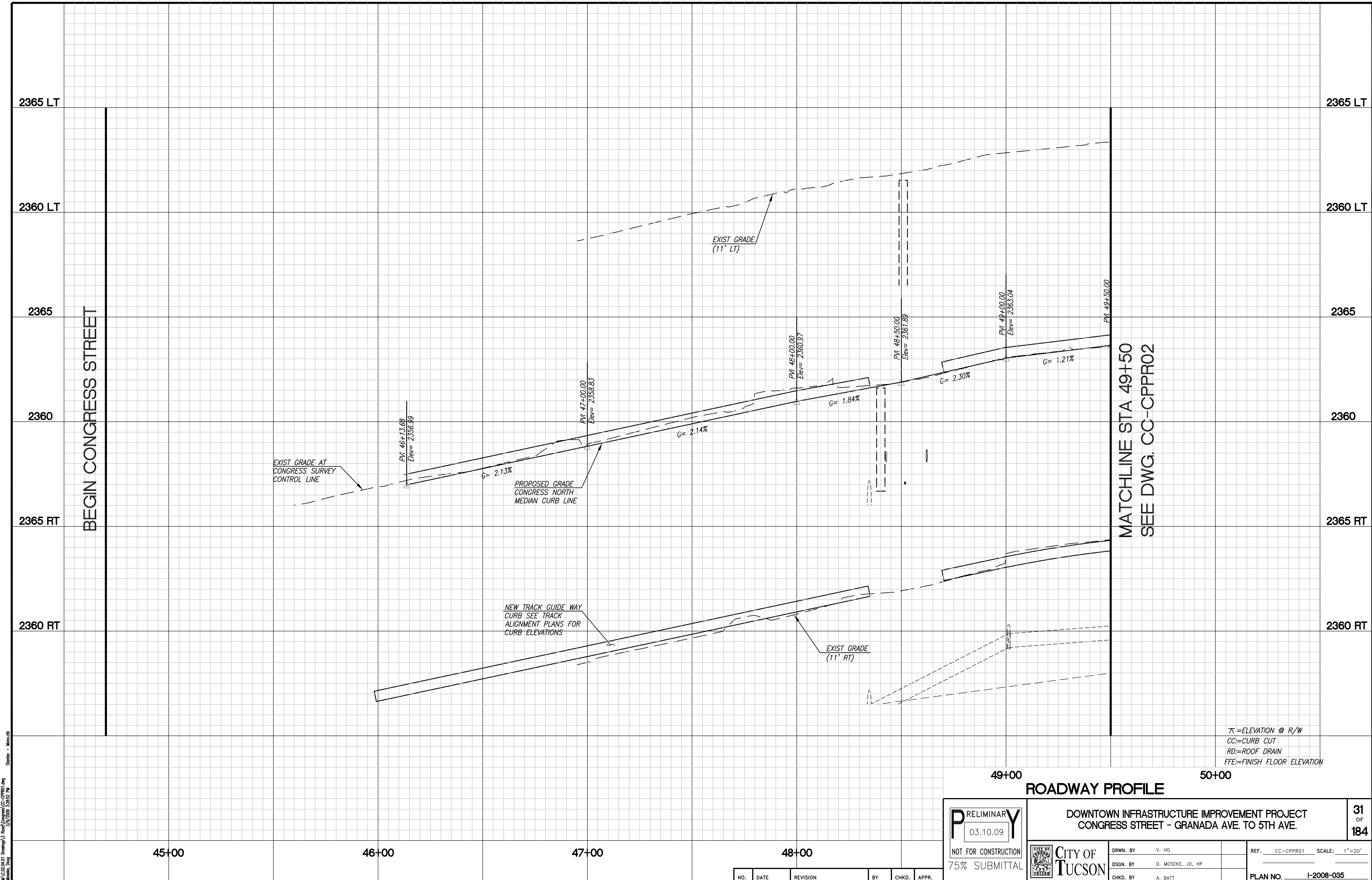
1-800-782-5348  
BLUE STAKE CENTER CALL COLLECT

**PRELIMINARY**  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT		30 OF 184
		CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		
DRWN. BY	V. HO	REF.	CC-CPPL01	SCALE: 1"=20'
DSGN. BY	D. MOSEKE, JD, HP	PLAN NO.	I-2008-035	
CHKD. BY	A. BATT			

NO.	DATE	REVISION	BY	CHKD.	APPR.

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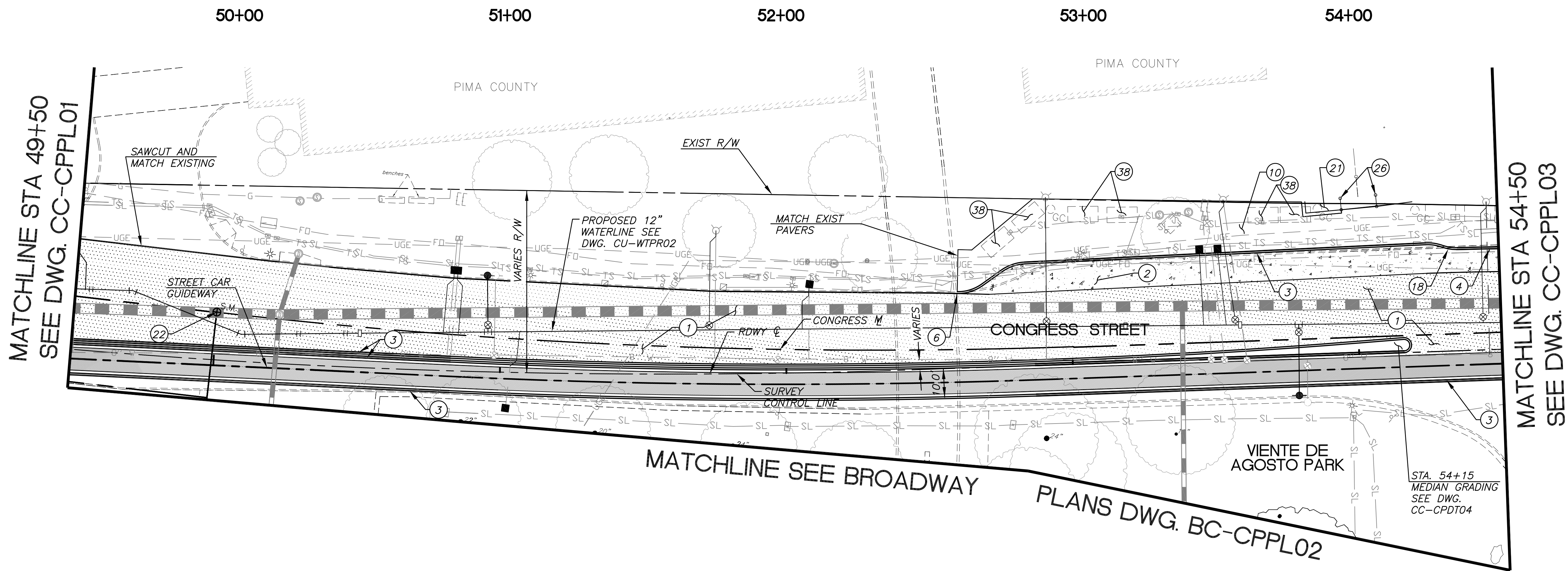
X = ELEVATION @ R/W  
 CC = CURB CUT  
 RD = ROOF DRAIN  
 FFE = FINISH FLOOR ELEVATION

49+00 **ROADWAY PROFILE** 50+00

45+00 46+00 47+00 48+00

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		31 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	

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MATCHLINE STA 49+50  
SEE DWG. CC-CPPL01

MATCHLINE STA 54+50  
SEE DWG. CC-CPPL03

MATCHLINE SEE BROADWAY  
PLANS DWG. BC-CPPL02

CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
④	CONC. CURB TYPE 2, H=8" PC/COT STD. DTL. 209, TYPE II
⑥	CONC. CURB NEW TO EXIST CONNECTION PC/COT STD. DTL. 211
⑧	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DWG. CC-CPDT02.
⑩	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
⑱	5' VERTICAL CURB TRANSITION DETAIL SEE DWG. CC-CPDT01
⑳	STA 54+00, STAIRWELL GRADING PLAN SEE DWG. CC-CPDT03
㉒	SURVEY MONUMENT, PC/COT STD. DTL. 103
㉔	NEW BARRICADE RAILING PC/COT STD. DTL. 105
㉚	REPLACE SALVAGED BUS SHELTER

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BLUE STAKE LEVER  
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ADVANCE BY STANTEC CONSULTING AND  
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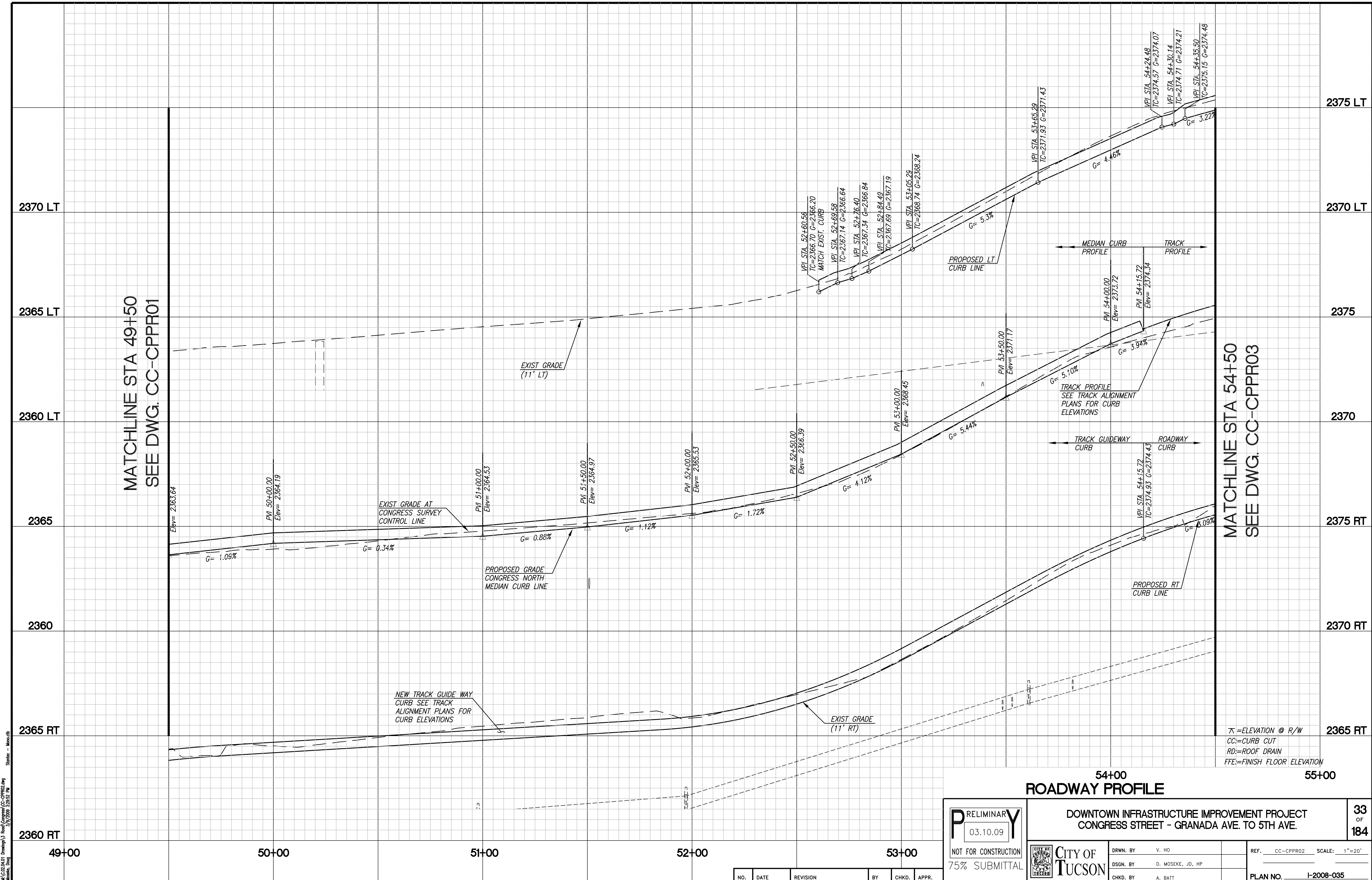
ROADWAY PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		32 OF 184
			REF. CC-CPPL02 SCALE: 1"=20' PLAN NO. I-2008-035
DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT		REF. CC-CPPL02 SCALE: 1"=20' PLAN NO. I-2008-035	

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 Status: - Manual





**54+00 ROADWAY PROFILE 55+00**

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.**

**33  
OF  
184**

**PRELIMINARY**  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

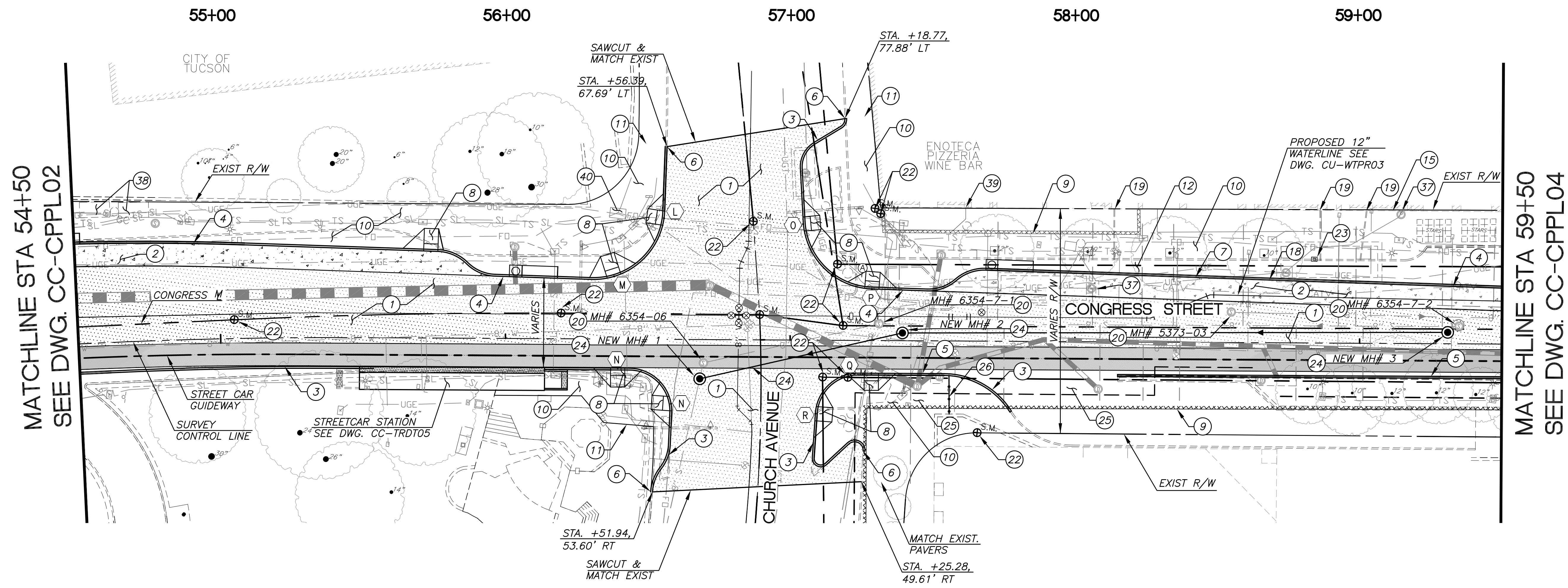


DRWN. BY V. HO  
DSGN. BY D. MOSEKE, JD, HP  
CHKD. BY A. BATT

REF. CC-CPPR02 SCALE: 1"=20'  
PLAN NO. I-2008-035

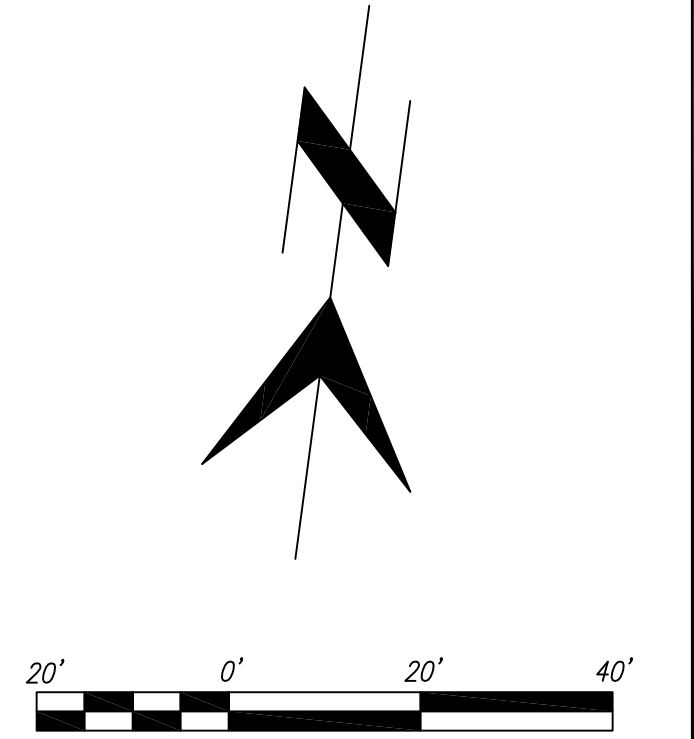
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 Moseke, Doug



MATCHLINE STA 54+50  
SEE DWG. CC-CPPL02

MATCHLINE STA 59+50  
SEE DWG. CC-CPPL04



CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
④	CONC. CURB TYPE 2, H=8" PC/COT STD. DTL. 209, TYPE II
⑤	CONC. VERT. CURB & GUTTER (MOD), H=6" SEE DWG CC-CPDT01
⑥	CONC. CURB NEW TO EXIST CONNECTION PC/COT STD. DTL. 211
⑦	CONC. CURB TYPE 2, H=9" PC/COT STD. DTL. 209, TYPE II
⑨	APPROXIMATE BASEMENT LIMITS
⑩	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
⑪	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑫	NEW PERMEABLE CONCRETE SIDEWALK SEE DWG CC-CPDT01
⑮	NEW SIDEWALK TO EXIST. BUILDING TRANSITION DETAIL SEE DWG. CC-CPDT01
⑱	5' VERTICAL CURB TRANSITION DETAIL SEE DWG. CC-CPDT01
⑲	EXTEND EXIST ROOF DRAIN SEE DWG. CC-CPDT02
⑳	ADJUST SANITARY SEWER MH COVER, PC/WWM DTL. 305
㉒	SURVEY MONUMENT, PC/COT STD. DTL. 103

CONSTRUCTION NOTES	
㉓	PARKING KIOSK, SEE DWG. CC-CPDT03
㉔	NEW SANITARY SEWER MANHOLE SEE SANITARY SEWER PLANS
㉕	UNISOURCE EXIT GRADING DETAIL SEE DWG. CC-CPDT04
㉖	NEW BARRICADE RAILING PC/COT STD. DTL. 105
㉗	EXISTING TEP FACILITY TO BE ADJUSTED BY TEP
㉘	REPLACE SALVAGED BUS SHELTER
㉙	REPLACE SALVAGED RAILING
㉚	ADJUST EXISTING PULL BOX BY OTHERS

SIDEWALK RAMP ACCESS CONTROL		
ID	STATION	OFFSET
Ⓛ	56+55.47	42.54' Lt
Ⓜ	56+38.06	22.01' Lt
Ⓝ	56+39.50	10.20' Rt
Ⓟ	56+58.30	22.61' Rt
Ⓠ	57+04.43	40.79' Lt
Ⓡ	57+28.60	18.12' Lt
Ⓢ	57+28.60	11.50' Rt
Ⓣ	57+09.02	25.81' Rt
Ⓤ	XXX	XXX

SANITARY MANHOLE RIM ADJUSTMENT		
IMS #	EXISTING	PROPOSED
6354-06	2380.42	DEMO
6354-7-1	2380.80	DEMO
6354-7-2	2382.95	DEMO
5373-03	2382.00	2382.05

**ROADWAY PLAN**

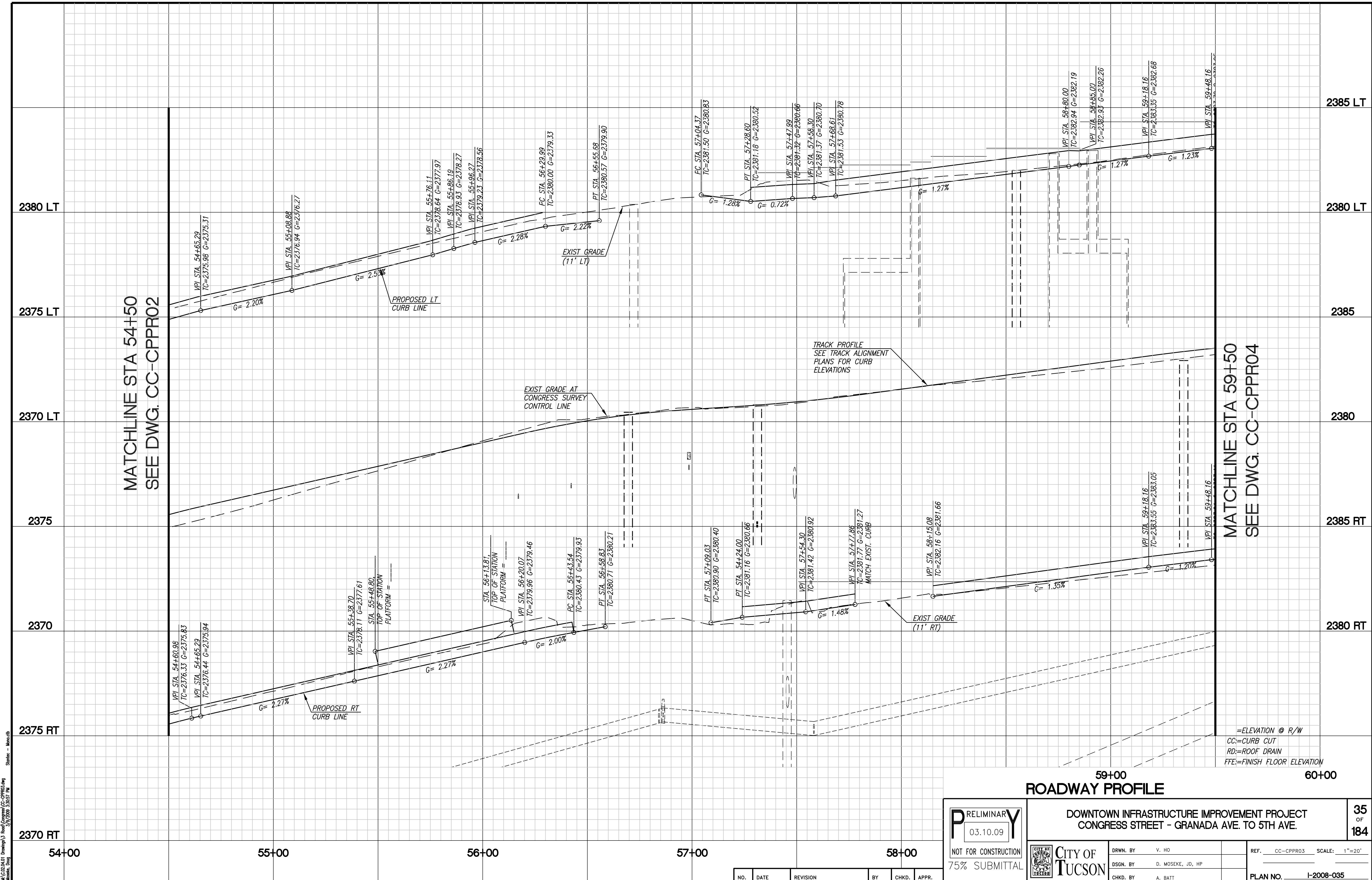
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03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

		DRWN. BY V. HO	REF. CC-CPPL03 SCALE: 1"=20'
		DSGN. BY D. MOSEKE, JD, HP	
		CHKD. BY A. BATT	PLAN NO. I-2008-035

NO WORKING DAYS BEFORE YOU DIG  
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BLUE STAKE CENTER  
CALL COLLECT  
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 Moseke, Doug

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 54+50  
SEE DWG. CC-CPPR02

MATCHLINE STA 59+50  
SEE DWG. CC-CPPR04

59+00  
**ROADWAY PROFILE**  
60+00

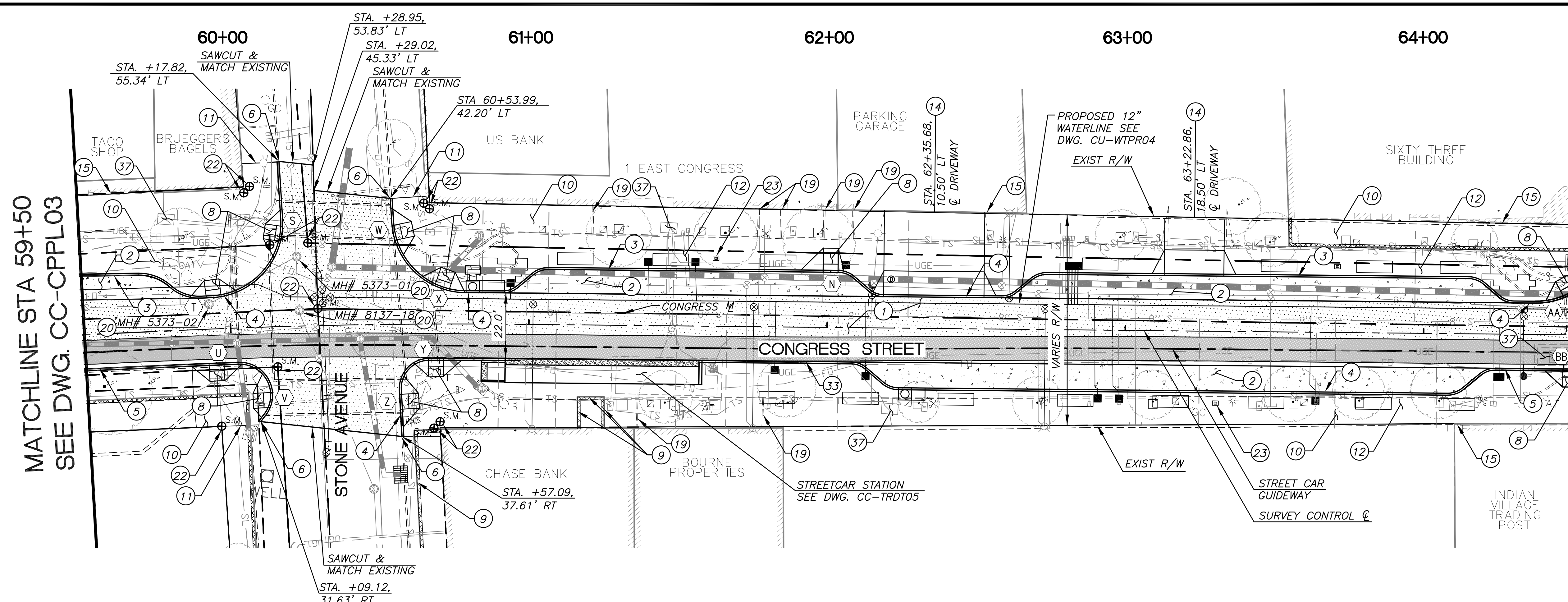
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CC:=CURB CUT  
RD:=ROOF DRAIN  
FFE:=FINISH FLOOR ELEVATION

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**P**RELIMINARY  
03.10.09  
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75% SUBMITTAL

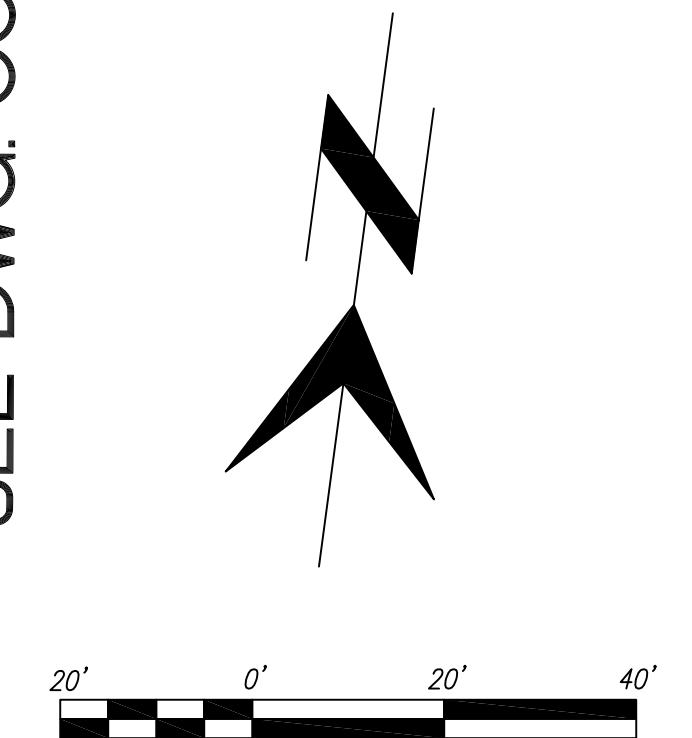
		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		35 OF 184
		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPPR03 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 59+50  
SEE DWG. CC-CPPL03

MATCHLINE STA 64+50  
SEE DWG. CC-CPPL05



CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
④	CONC. CURB TYPE 2, H=8" PC/COT STD. DTL. 209, TYPE II
⑧	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DWG. CC-CPDT02.
⑨	APPROXIMATE BASEMENT LIMITS
⑩	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
⑪	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑫	NEW PERMEABLE CONCRETE SIDEWALK SEE DWG CC-CPDT01
⑭	DRIVEWAY APRON, PC/COT STD. DTL. 206 (MOD), SEE DWG. CC-CPDT02
⑮	NEW SIDEWALK TO EXIST. BUILDING TRANSITION DETAIL SEE DWG. CC-CPDT01
⑲	EXTEND EXIST ROOF DRAIN SEE DWG. CC-CPDT02
⑳	ADJUST SANITARY SEWER MH COVER, PC/WMM DTL. 305
㉒	SURVEY MONUMENT, PC/COT STD. DTL. 103
㉓	PARKING KIOSK, SEE DWG. CC-CPDT03
㉔	VERTICAL CURB AND GUTTER, FLATTENED GUTTER PAN SEE DWG. CC-CPDT01
㉗	EXISTING TEP FACILITY TO BE ADJUSTED BY TEP

SIDEWALK RAMP ACCESS CONTROL		
ID	STATION	OFFSET
⑤	60+18.11	31.01' Lt
⑦	59+94.80	10.49' Lt
⑩	59+94.79	11.47' Rt
⑮	60+13.20	24.47' Rt
⑳	60+54.82	30.63' Lt
㉑	60+70.82	11.89' Lt
㉒	60+68.82	11.50' Rt
㉓	60+56.57	25.99' Rt
㉔	62+01.00	18.50' Lt
㉕	64+49.28	13.57' Lt
㉖	64+49.28	11.51' Rt

SANITARY MANHOLE RIM ADJUSTMENT		
IMS #	EXISTING	PROPOSED
5373-02	2383.69	2383.62
5373-01	2383.89	2383.74
8137-18	2384.00	2383.82

**ROADWAY PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		36 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPPL04 SCALE: 1"=20' PLAN NO. I-2008-035

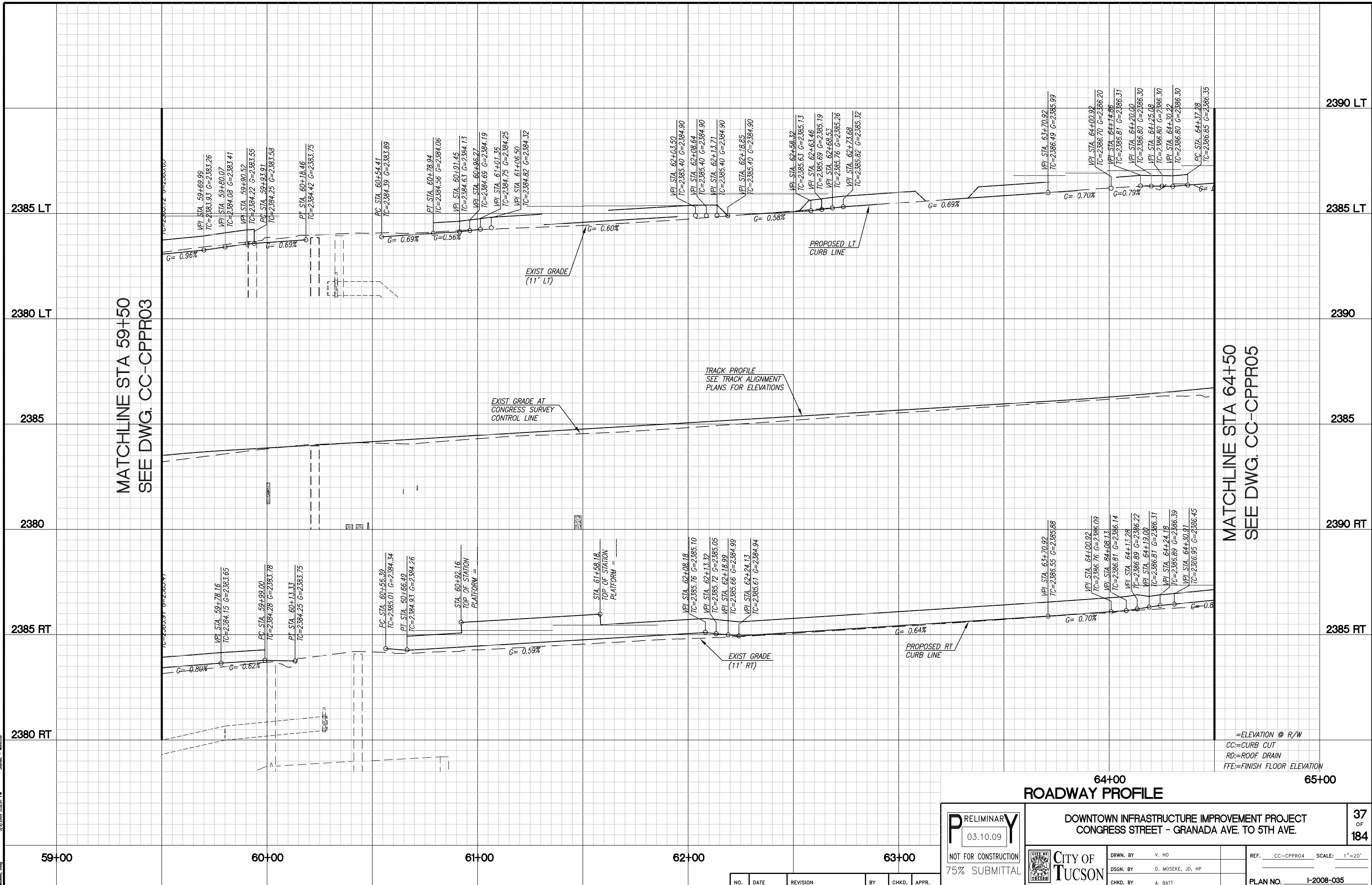
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MATCHLINE STA 59+50  
 SEE DWG. CC-CPPR03

MATCHLINE STA 64+50  
 SEE DWG. CC-CPPR05

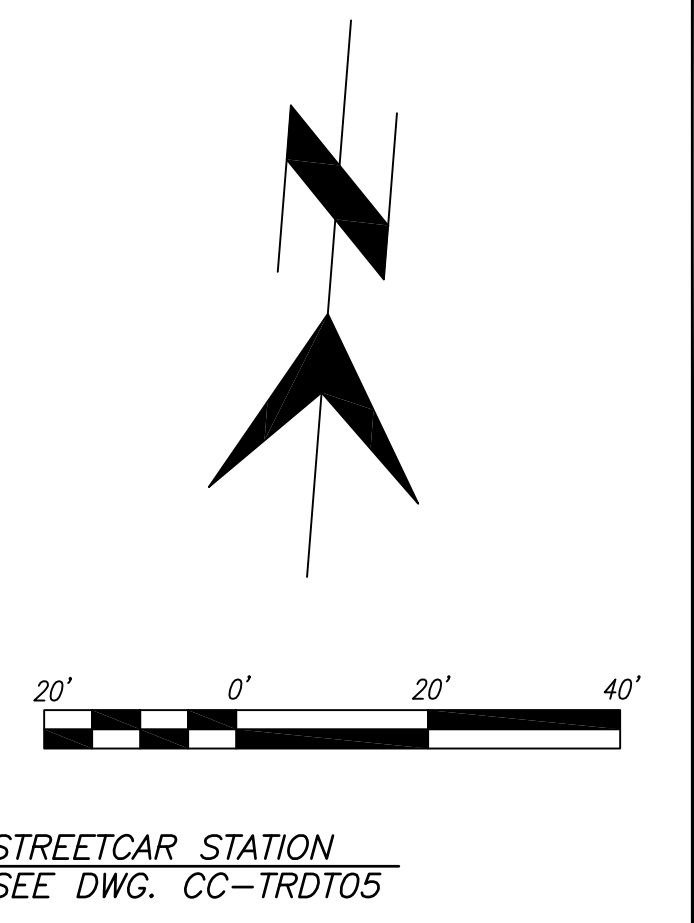
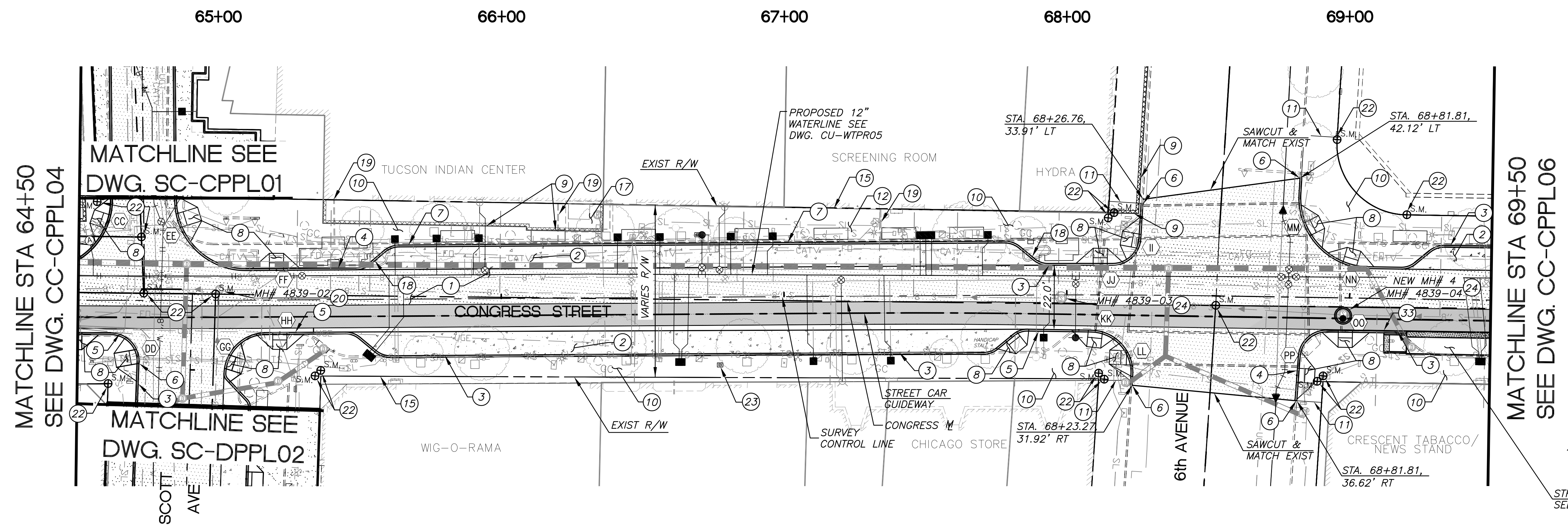
**P** RELIMINARY  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

CITY OF  
**TUCSON**  
 DRWN. BY V. HO  
 DSGN. BY D. MOSEKE, JD, HP  
 CHKD. BY A. BATT

REF. CC-CPPR04 SCALE: 1"=20'  
 PLAN NO. I-2008-035

37  
 OF  
 184

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MATCHLINE STA 64+50  
SEE DWG. CC-CPPL04

MATCHLINE STA 69+50  
SEE DWG. CC-CPPL06

CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
④	CONC. CURB TYPE 2, H=8" PC/COT STD. DTL. 209, TYPE II
⑤	CONC. VERT. CURB & GUTTER (MOD), H=6" SEE DWG CC-CPDT01
⑥	CONC. CURB NEW TO EXIST CONNECTION PC/COT STD. DTL. 211
⑦	CONC. CURB TYPE 2, H=9" PC/COT STD. DTL. 209, TYPE II
⑧	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DWG. CC-CPDT02.
⑨	APPROXIMATE BASEMENT LIMITS
⑩	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
⑪	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑫	NEW PERMEABLE CONCRETE SIDEWALK SEE DWG CC-CPDT01
⑮	NEW SIDEWALK TO EXIST. BUILDING TRANSITION DETAIL SEE DWG. CC-CPDT01
⑰	NEW SIDEWALK-MATCH EXISTING UTILITY VAULT DETAIL SEE DWG. CC-CPDT01
⑱	5' VERTICAL CURB TRANSITION DETAIL SEE DWG. CC-CPDT01
⑲	EXTEND EXIST ROOF DRAIN SEE DWG. CC-CPDT02
⑳	ADJUST SANITARY SEWER MH COVER, PC/WWM DTL. 305
㉒	SURVEY MONUMENT, PC/COT STD. DTL. 103
㉓	PARKING KIOSK, SEE DWG. CC-CPDT03
㉔	NEW SANITARY SEWER MANHOLE SEE SANITARY SEWER PLANS
㉖	VERTICAL CURB AND GUTTER, FLATTENED GUTTER PAN SEE DWG. CC-CPDT01

SIDEWALK RAMP ACCESS CONTROL		
ID	STATION	OFFSET
CC	64+61.12	27.72' Lt
DD	64+71.77	19.76' Rt
EE	64+85.67	28.18' Lt
FF	65+20.58	10.50' Lt
GG	65+02.65	21.62' Rt
HH	65+21.64	11.50' Rt
N	67+80.17	12.59' Rt
II	68+25.91	18.93' Lt
JJ	68+11.79	10.50' Lt
KK	68+10.14	12.59' Rt
LL	68+22.55	22.27' Rt
MM	68+84.35	23.98' Lt
NN	68+99.72	11.45' Lt
OO	68+98.69	11.50' Rt
PP	68+81.74	27.64' Rt

SANITARY MANHOLE RIM ADJUSTMENT		
IMS #	EXISTING	PROPOSED
4839-02	2387.05	2387.08
4839-03	2389.66	2389.60
4839-04	2390.12	DEMO

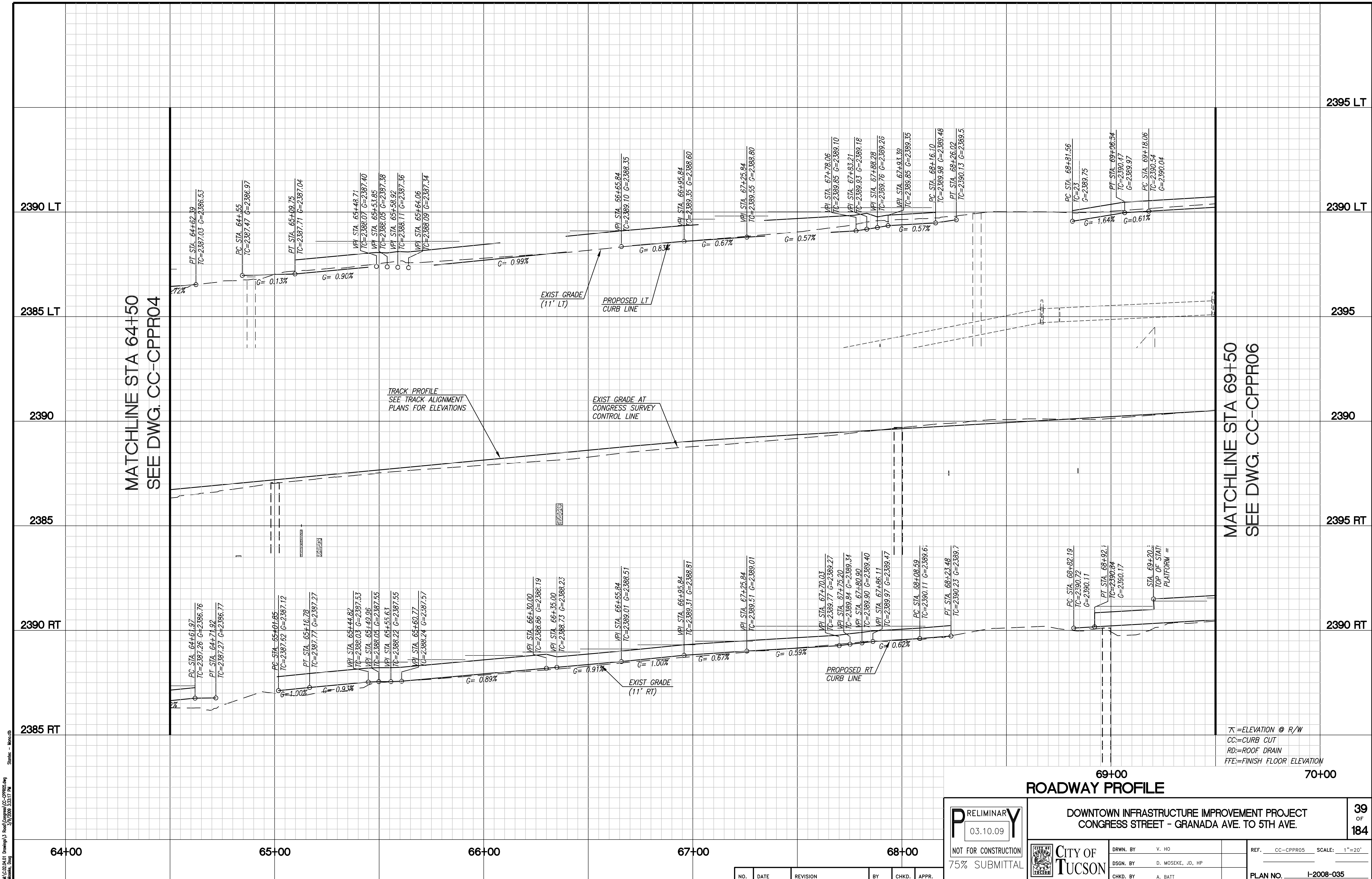
**ROADWAY PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		<b>38</b> OF <b>184</b>
		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPPL05 SCALE: 1"=20' PLAN NO. I-2008-035

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**P** RELIMINARY  
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 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		39 OF 184
		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPPR05 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

70+00

71+00

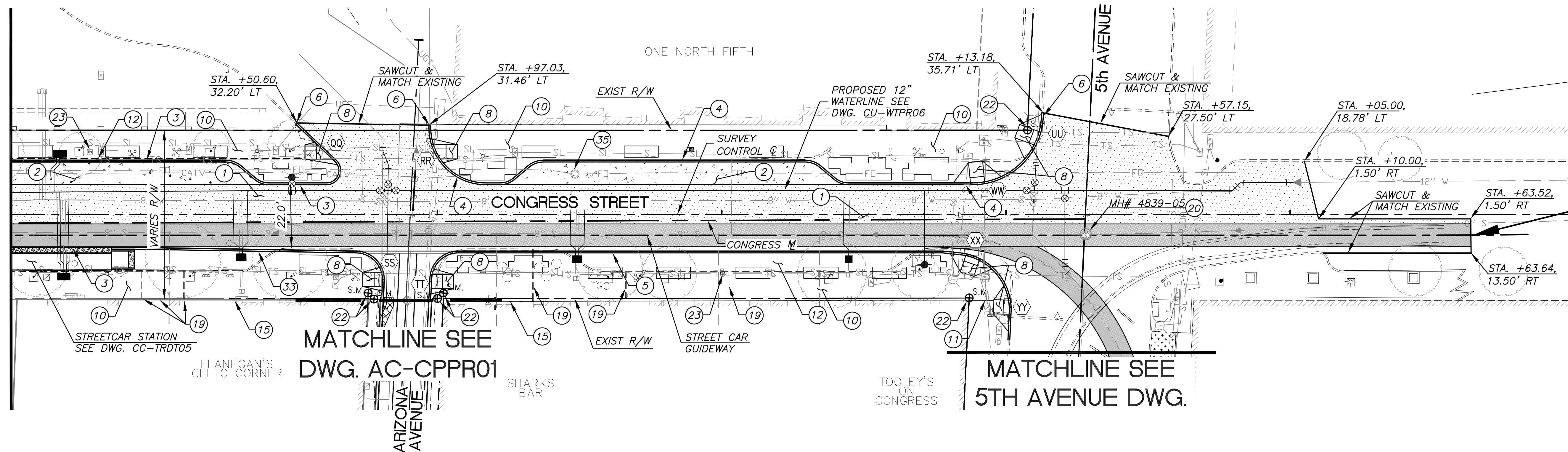
72+00

73+00

74+00

75+00

MATCHLINE STA 69+50  
SEE DWG. CC-CPPL05



END PROJECT

CONSTRUCTION NOTES

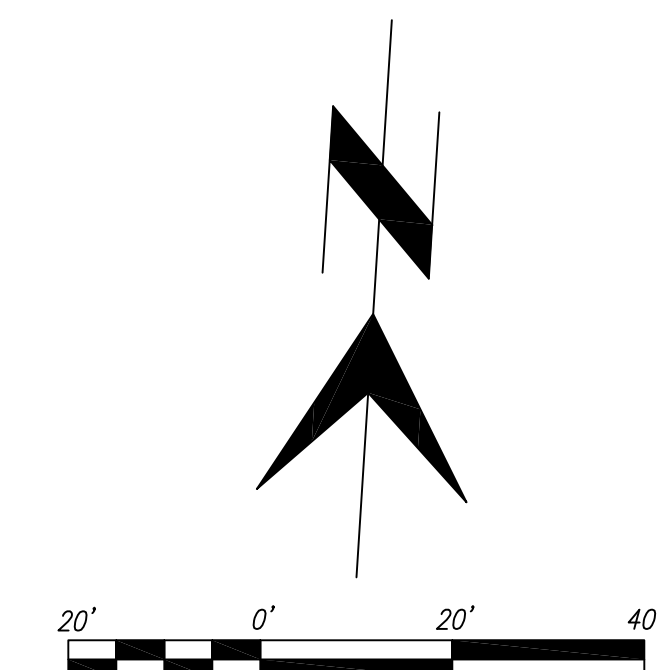
(1)	PVMT STRUCTURAL SEC. NO. 1
(2)	PVMT STRUCTURAL SEC. NO. 2
(3)	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
(4)	CONC. CURB TYPE 2, H=8" PC/COT STD. DTL. 209, TYPE II
(5)	CONC. VERT. CURB & GUTTER (MOD), H=6" SEE DWG CC-CPDT01
(6)	CONC. CURB NEW TO EXIST CONNECTION PC/COT STD. DTL. 211
(8)	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DWG. CC-CPDT02.
(10)	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
(11)	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
(12)	NEW PERMEABLE CONCRETE SIDEWALK SEE DWG CC-CPDT01
(15)	NEW SIDEWALK TO EXIST. BUILDING TRANSITION DETAIL SEE DWG. CC-CPDT01
(19)	EXTEND EXIST ROOF DRAIN SEE DWG. CC-CPDT02
(20)	ADJUST SANITARY SEWER MH COVER, PC/WWM DTL. 305
(22)	SURVEY MONUMENT, PC/COT STD. DTL. 103
(23)	PARKING KIOSK, SEE DWG. CC-CPDT03
(24)	NEW SANITARY SEWER MANHOLE SEE SANITARY SEWER PLANS

SIDEWALK RAMP  
ACCESS CONTROL

ID	STATION	OFFSET
(RR)	70+61.37	21.99' Lt
(RR)	70+98.85	22.10' Lt
(SS)	70+81.30	22.74' Rt
(TT)	70+97.28	23.52' Rt
(UU)	73+11.51	26.57' Lt
(VV)	72+90.07	10.57' Lt
(XX)	72+88.48	14.45' Rt
(YY)	73+01.82	32.55' Rt

SANITARY MANHOLE  
RIM ADJUSTMENT

IMS #	EXISTING	PROPOSED
4839-05	2392.98	2393.08



ROADWAY PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		40 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-CPPL06 SCALE: 1"=20' PLAN NO. I-2008-035

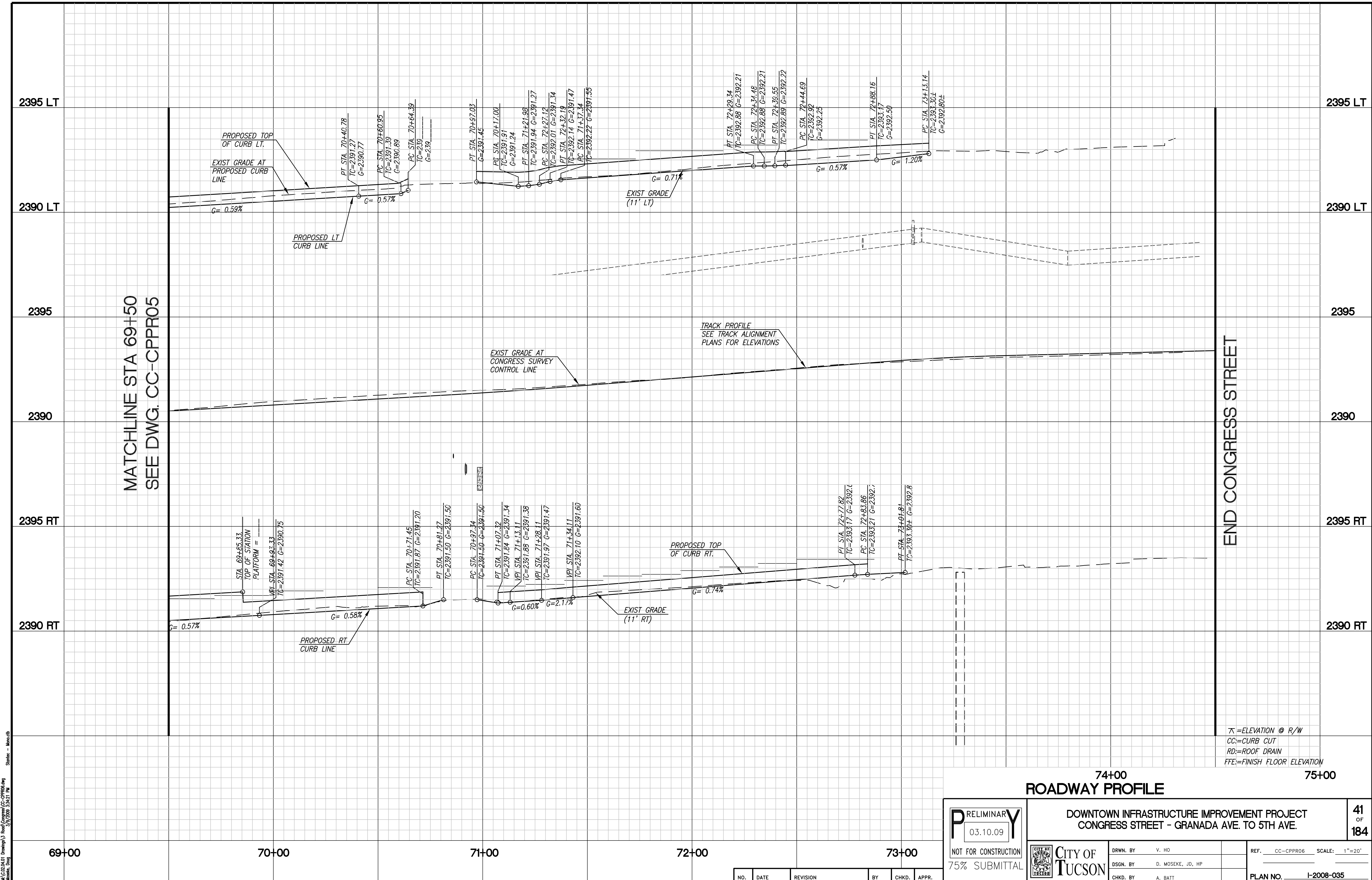
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MATCHLINE STA 69+50  
SEE DWG. CC-CPPR05

END CONGRESS STREET

⌘ = ELEVATION @ R/W  
CC = CURB CUT  
RD = ROOF DRAIN  
FFE = FINISH FLOOR ELEVATION

74+00  
**ROADWAY PROFILE**  
75+00

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

41  
OF  
184

**P** RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL



DRWN. BY V. HO  
DSGN. BY D. MOSEKE, JD, HP  
CHKD. BY A. BATT

REF. CC-CPPR06 SCALE: 1"=20'  
PLAN NO. I-2008-035

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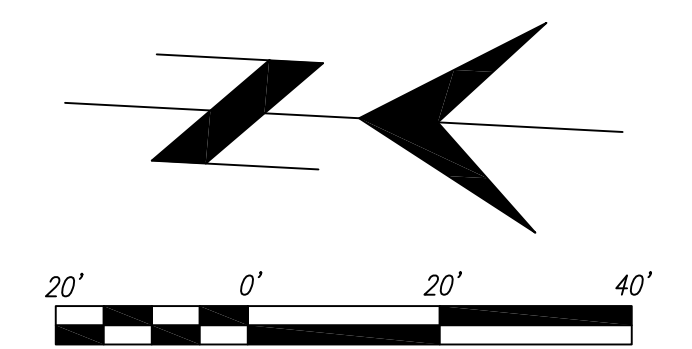
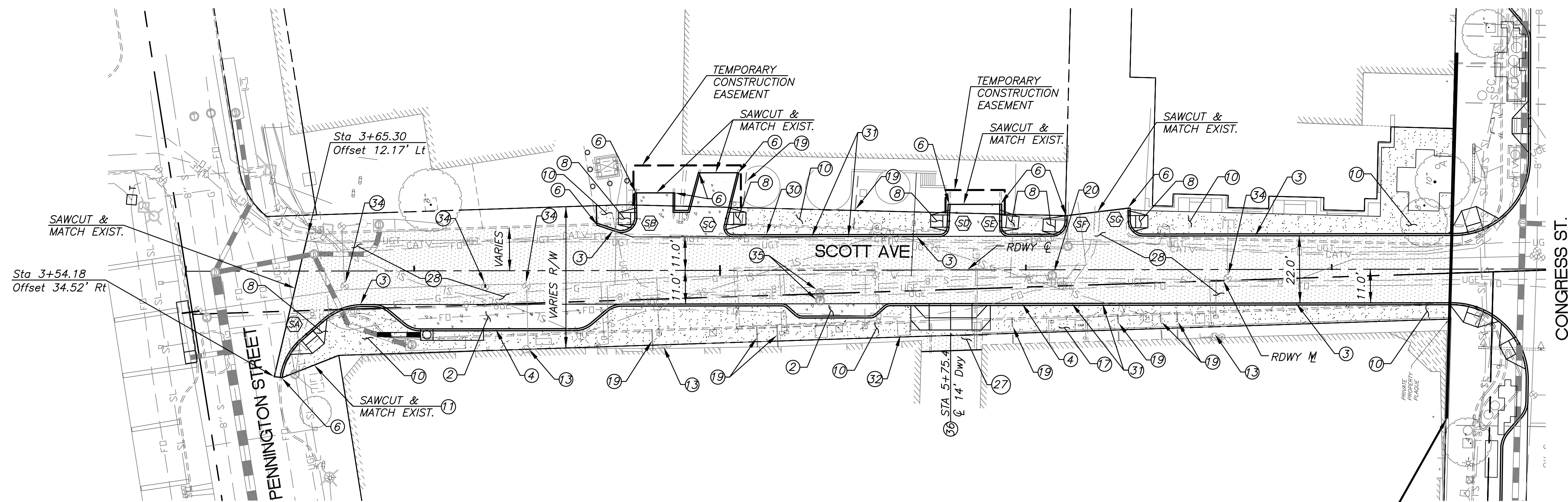
3+00

4+00

5+00

6+00

7+00



CONGRESS  
MATCHLINE STA 7+39.20  
SEE DWG. CC-CPPL05

CONSTRUCTION NOTES	
②	PVMT STRUCTURAL SEC. NO. 2
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
④	CONC. CURB TYPE 2, H=8" PC/COT STD. DTL. 209, TYPE II
⑥	CONC. CURB NEW TO EXIST CONNECTION PC/COT STD. DTL. 211
⑧	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DWG. CC-CPDT02.
⑩	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
⑪	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑬	SEE WATERLINE PLANS FOR VALVE, HYDRANT, AND METER RELOCATION/ADJUSTMENT
⑭	DRIVEWAY APRON, PC/COT STD. DTL. 206 (MOD), SEE DWG. CC-CPDT02

CONSTRUCTION NOTES	
⑰	NEW SIDEWALK-MATCH EXISTING UTILITY VAULT DETAIL SEE DWG. CC-CPDT01
⑲	EXTEND EXIST ROOF DRAIN SEE DWG. CC-CPDT02
⑳	ADJUST SANITARY SEWER MH COVER, PC/WWM DTL. 305
㉒	SURVEY MONUMENT, PC/COT STD. DTL. 103
㉔	PVMT STRUCTURAL SEC. NO. 4
⑳	CONC. CURB TYPE 2, H=10" PC/COT STD. DTL. 209, TYPE II
㉑	MODIFIED VERTICAL CURB TRANSITION DETAIL SEE DWG. CC-CPDT01
㉓	EXISTING VENT IN SIDEWALK. PROTECT-IN-PLACE
㉕	ADJUST EXISTING VALVE BOX AND COVER
㉖	ADJUST EXISTING MANHOLE FRAME AND COVER BY OTHERS

SIDEWALK RAMP ACCESS CONTROL		
ID	STATION	OFFSET
SA	3+64.67	20.62' Rt
SB	4+72.80	17.00' Lt
SC	5+01.99	17.00' Lt
SD	5+74.99	16.00' Lt
SE	5+91.48	16.01' Lt
SF	6+13.17	14.22' Lt
SG	6+33.53	15.71' Lt

SANITARY MANHOLE RIM ADJUSTMENT		
IMS #	EXISTING	PROPOSED
5384-01	-	-



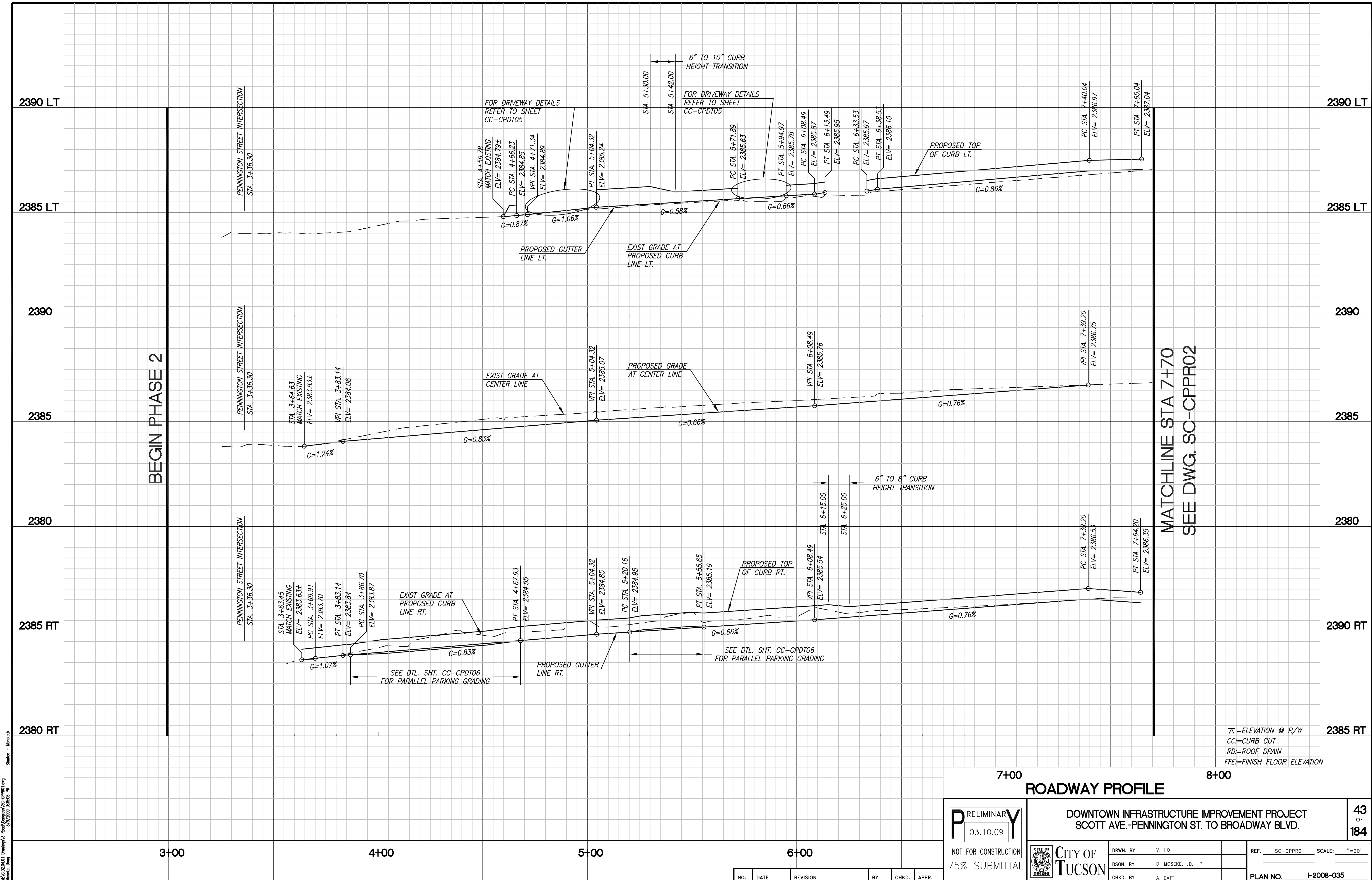
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**ROADWAY PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		42 OF 184
		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. SC-CPPL01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Stantec - Monocb



ELEVATION @ R/W  
 CC=CURB CUT  
 RD=ROOF DRAIN  
 FFE=FINISH FLOOR ELEVATION

7+00  
**ROADWAY PROFILE**  
 8+00

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		43 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. SC-CPPR01 SCALE: 1"=20' PLAN NO. I-2008-035

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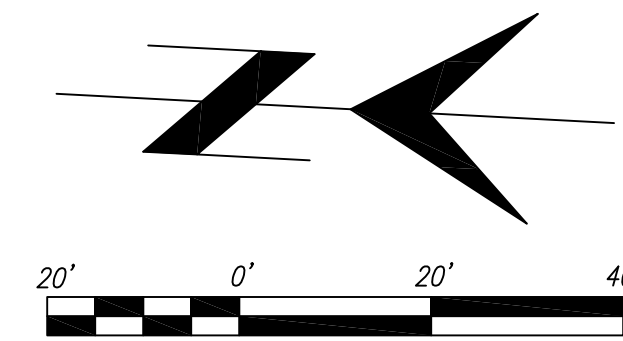
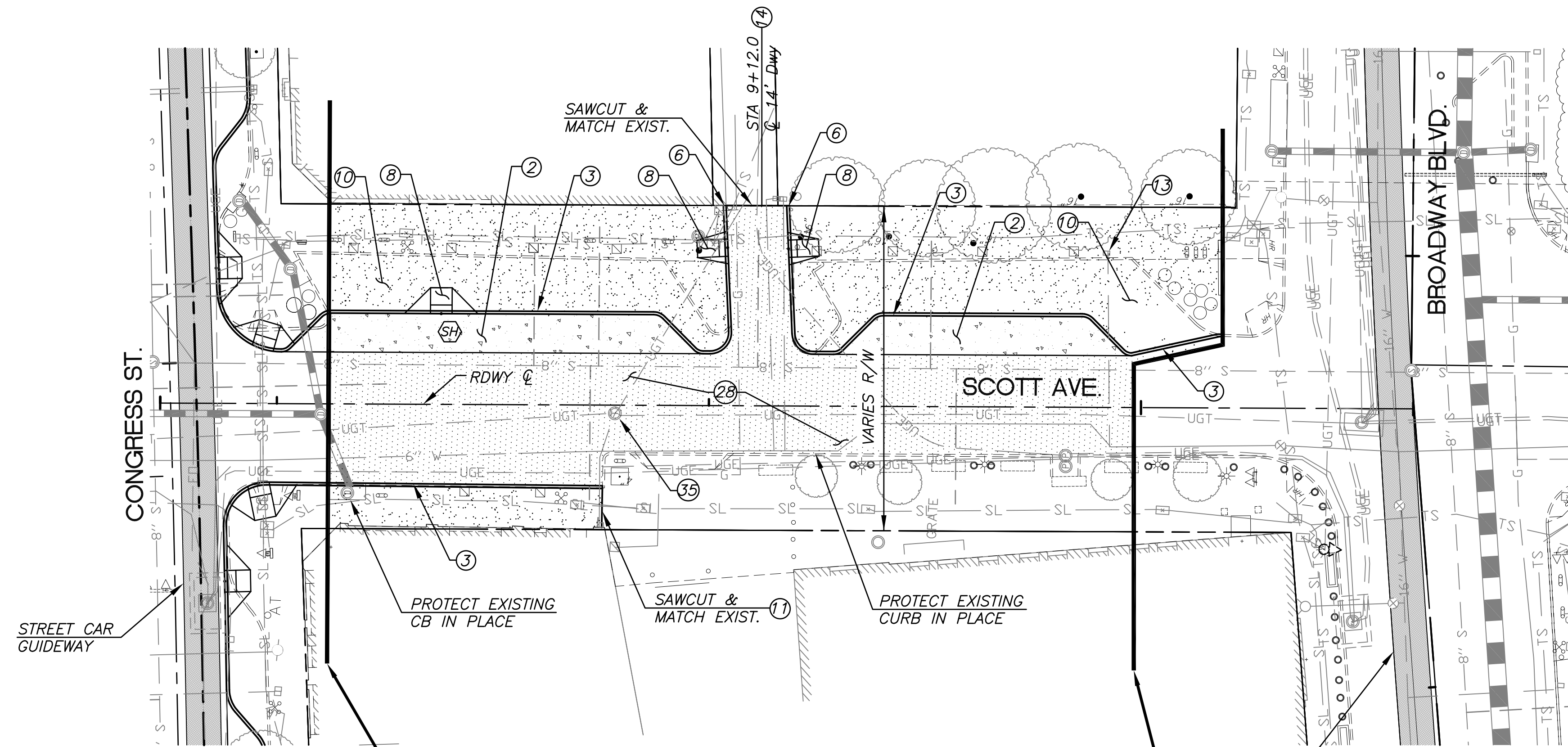
7+00

8+00

9+00

10+00

11+00



SEE SCOTT PLAN  
NO. I-2008-027

CONGRESS  
MATCHLINE STA 8+12.31  
SEE DWG. CC-CPPL05

BROADWAY  
MATCHLINE STA 9+97.97  
SEE DWG. BC-CPPL05

CONSTRUCTION NOTES	
②	PVMT STRUCTURAL SEC. NO. 2
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
⑥	CONC. CURB NEW TO EXIST CONNECTION PC/COT STD. DTL. 211
⑧	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DWG. CC-CPDT02.
⑩	NEW CONCRETE SIDEWALK PC/COT STD. DTL. 200 SEE HARDSCAPE PLANS FOR SURFACE TREATMENT
⑪	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203

CONSTRUCTION NOTES	
⑬	SEE WATERLINE PLANS FOR VALVE, HYDRANT, AND METER RELOCATION/ADJUSTMENT
⑭	DRIVEWAY APRON, PC/COT STD. DTL. 206 (MOD), SEE DWG. CC-CPDT02
⑳	SURVEY MONUMENT, PC/COT STD. DTL. 103
㉔	PVMT STRUCTURAL SEC. NO. 4
㉕	ADJUST EXISTING MANHOLE FRAME AND COVER BY OTHERS

SIDEWALK RAMP ACCESS CONTROL		
ID	STATION	OFFSET
SH	8+37.96	21.00' Lt

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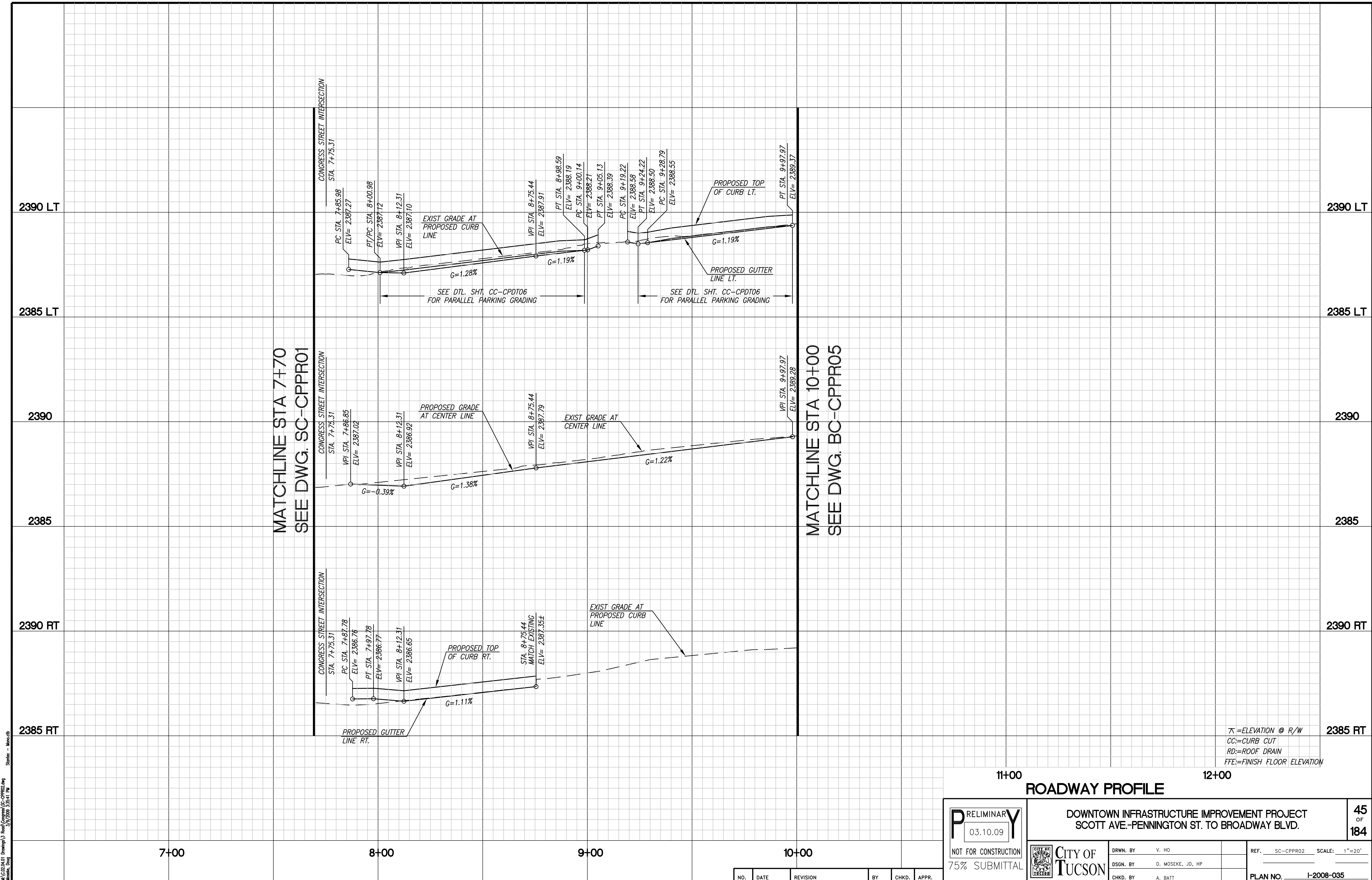
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**ROADWAY PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		44 OF 184
		DRWN. BY V. HO DSGN. BY D. MOSELEY, JD, HP CHKD. BY A. BATT	REF. SC-CPPL02 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 7+70  
SEE DWG. SC-CPPR01

MATCHLINE STA 10+00  
SEE DWG. BC-CPPR05

X = ELEVATION @ R/W  
 CC = CURB CUT  
 RD = ROOF DRAIN  
 FFE = FINISH FLOOR ELEVATION

11+00 ROADWAY PROFILE 12+00

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-PENNINGTON ST. TO BROADWAY BLVD.		45 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. SC-CPPR02 SCALE: 1"=20' PLAN NO. I-2008-035

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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

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

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

Station	Storm Drain Dwg Ref.	Controlling Fill Height Range	DESCRIPTION								CSP	CAP	RCP	NRCP	NRCPCP	CHDPEPP	END TREATMENT								QUANTITIES		REMARKS																																																	
			Size, Corrugated	Length (0)	Skew (0)	Corrugation	Wall Thickness (0.00)	Zinc Bit. Coated Aluminum	Aluminum Bit. Coated Aluminum	Corrugation	Wall Thickness (0.00)	Uncoated Bit. Coated	Class - Non Trench				Class - Trench	Class	Min Wall Thickness (0)	AASHTO M-294 Type C	AASHTO M-294 Type S	C-13.20 & C-13.25	Detail -	Size (in) Manhole	Standard or Detail	S-Single / D-Double		Location	H (0.0)	L Wing (0.0)	L 18" Slotted Drm (0)	L 24" Slotted Drm (0)	Type	Elev. (0.00)	Depth	Grate		Inlet Depression	Pipe Exc (0)	Pipe Bkfil (0) C-13.15	Drm Exc (0)	Berm/Dike Emb (0)																																		
																																				In.	In.						Ft.	Degree	In.	Coating	In.	In.	Each	Ea	Ft.	In.	Ft.	Ft.	Ft.																					
																																				Length	In.						Depth	L	Wing	Slotted	Slotted	Type	Depth	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc
																																				Exc	Exc						Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc	Exc
54+37.06, LT	C11		18	20																																																																								
56+05.39, LT	C12		18	5																																																																								
57+51.95, LT	C13		18	18																																																																								
62+21.32	C14		18	36																																																																								
64+87.87, RT	C15		18	30																																																																								
65+16.40, RT	C16		18	45																																																																								
65+66.20, LT	C17		18	5																																																																								
69+19.48, RT	C18		18	4																																																																								
69+05.86, LT	C19		24	25																																																																								
69+35.73, LT	C20		18	7																																																																								
3+87.83, RT (SCOTT)	S11		18	15																																																																								
Sheet Total				136																																																																								

RANGE NO.	1	2	3	4	5	6	7	8	9	10	11	12
FILL	> 1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤ 3	5	8	11	15	20	25	30	40	55	70	90

● SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.

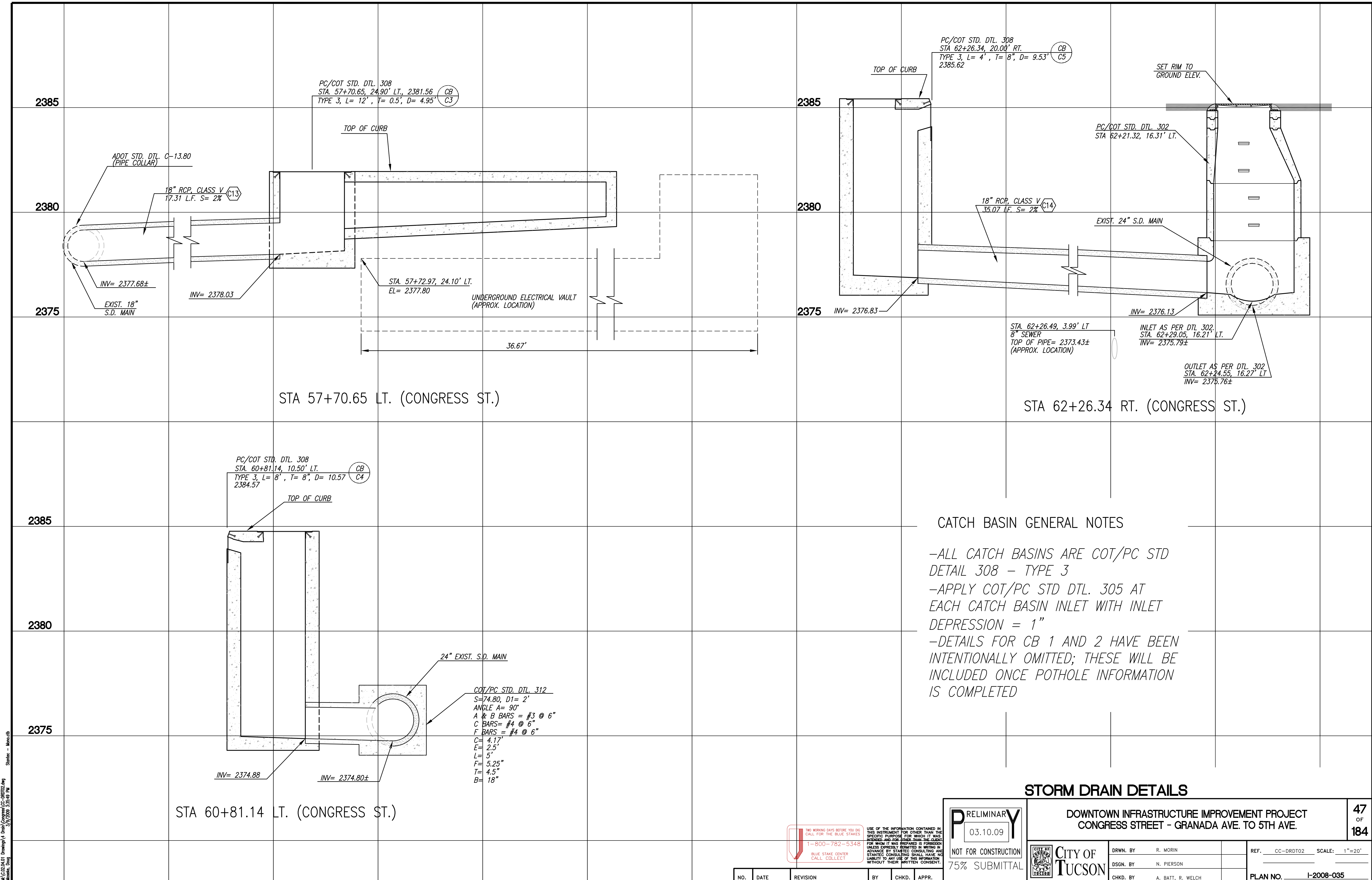
**STORM DRAIN PIPE QUANTITIES**

**P** RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		46 of 184
CITY OF TUCSON	DRWN. BY N. PIERSON DSGN. BY N. PIERSON CHKD. BY A. BATT, R. WELCH	REF. CC-DRD01 SCALE: PLAN NO. I-2008-035

M:\2008\03\01\Drawings\3-D\Storm\CC-DRD01.dwg  
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 Muesel, Doug  
 Sheet: 1 of 46

NO.	DATE	REVISION	BY	CHKD.	APPR.
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**CATCH BASIN GENERAL NOTES**

- ALL CATCH BASINS ARE COT/PC STD DETAIL 308 - TYPE 3
- APPLY COT/PC STD DTL. 305 AT EACH CATCH BASIN INLET WITH INLET DEPRESSION = 1"
- DETAILS FOR CB 1 AND 2 HAVE BEEN INTENTIONALLY OMITTED; THESE WILL BE INCLUDED ONCE POTHOLE INFORMATION IS COMPLETED

**STORM DRAIN DETAILS**

M:\CADD\01 Drawings\Drawings\CC-080702.dwg  
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 Shrike - Monica B

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 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT

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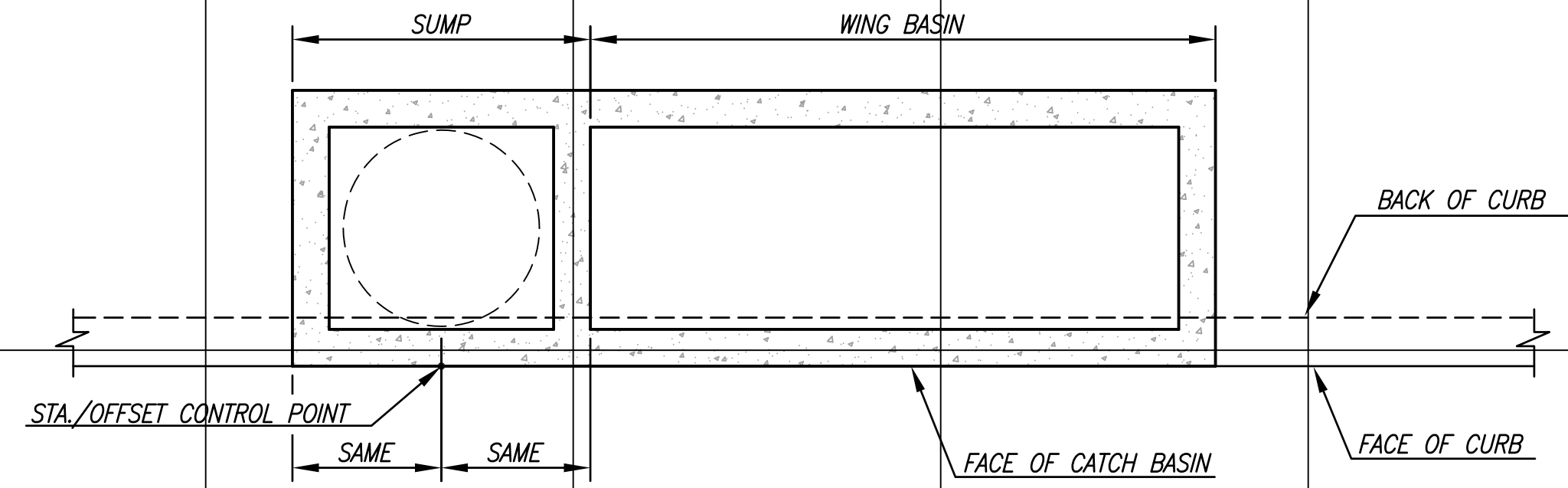
		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		47 of 184
		DRWN. BY R. MORIN DSGN. BY N. PIERSON CHKD. BY A. BATT, R. WELCH	REF. CC-DRDT02 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

2390

2385

2380

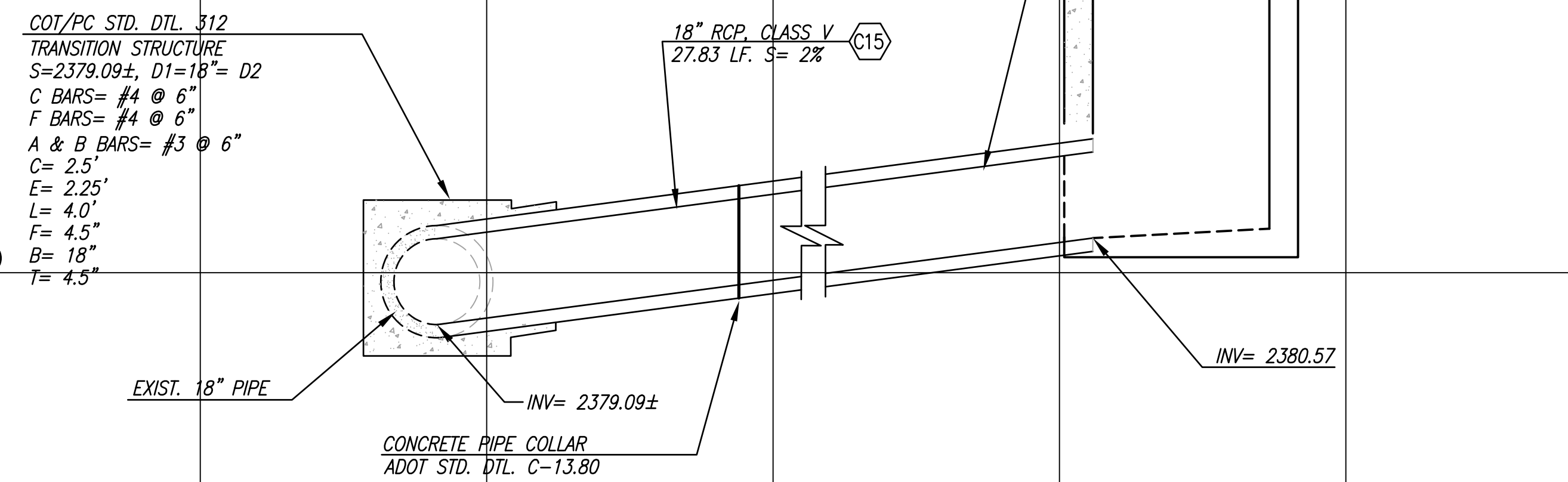


CATCH BASIN CONTROL POINT DETAIL

2385

2380

2375

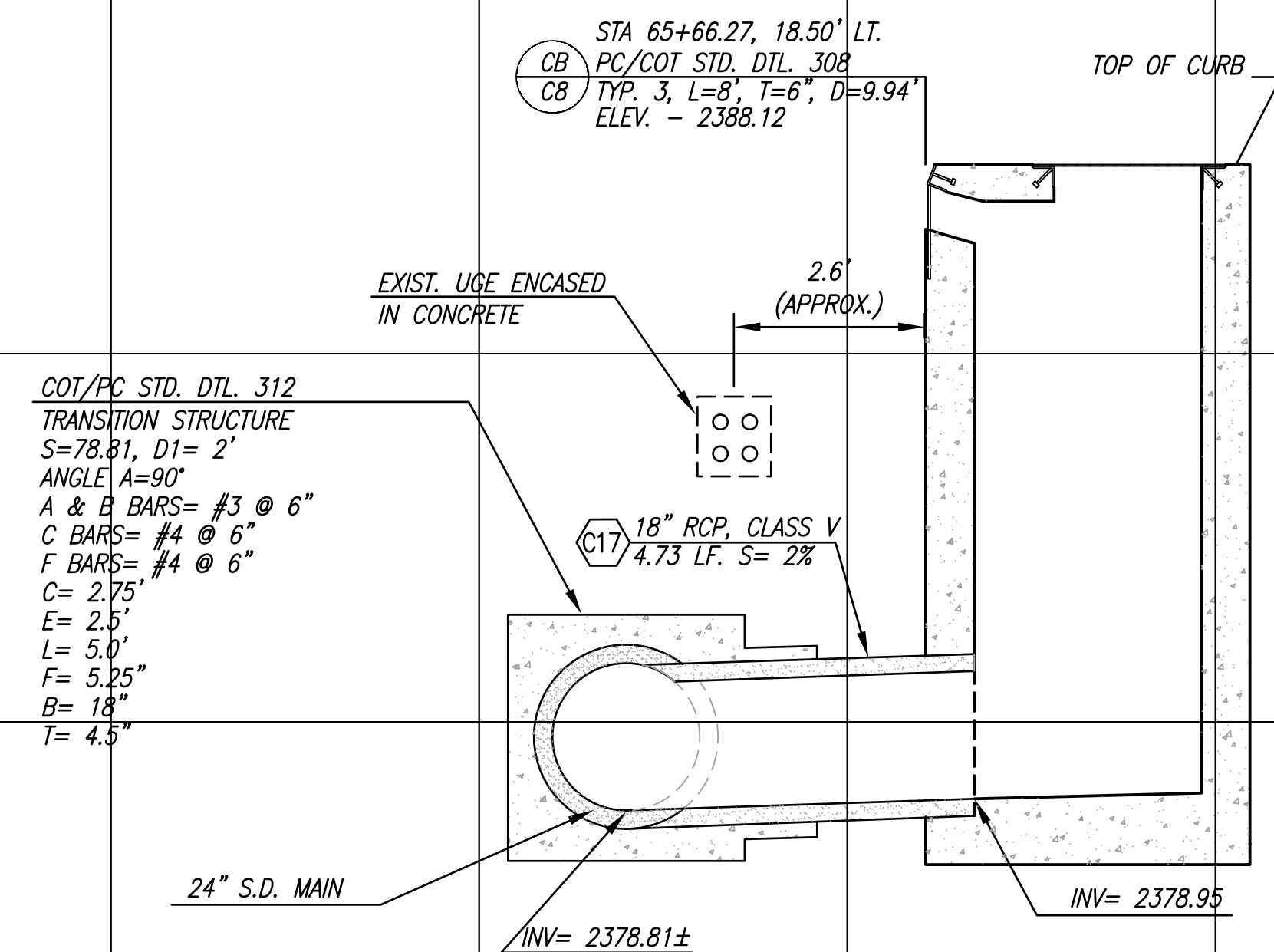


STA 65+62.98 RT. (CONGRESS ST.)

2390

2385

2380

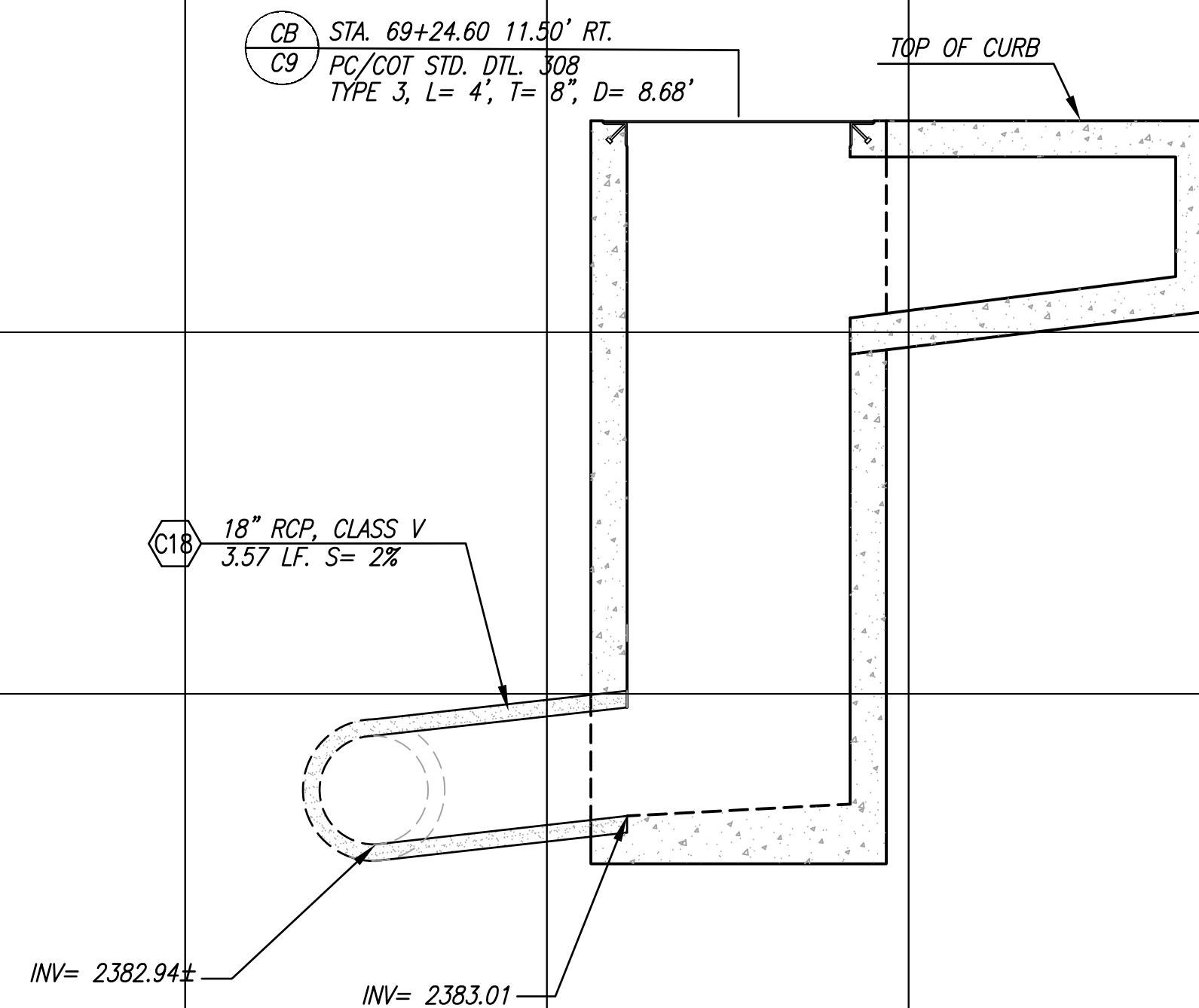


STA 65+66.27 LT. (CONGRESS ST.)

2390

2385

2380



STA 69+24.60, (CONGRESS ST.)

STORM DRAIN DETAILS

Vertical: - Monocad  
Horizontal: - Monocad  
3/9/2009 3:55:47 PM

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PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

48  
OF  
184



DRWN. BY R. MORIN  
DSGN. BY N. PIERSON  
CHKD. BY A. BATT, R. WELCH

REF. CC-DRD103 SCALE: 1"=20'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

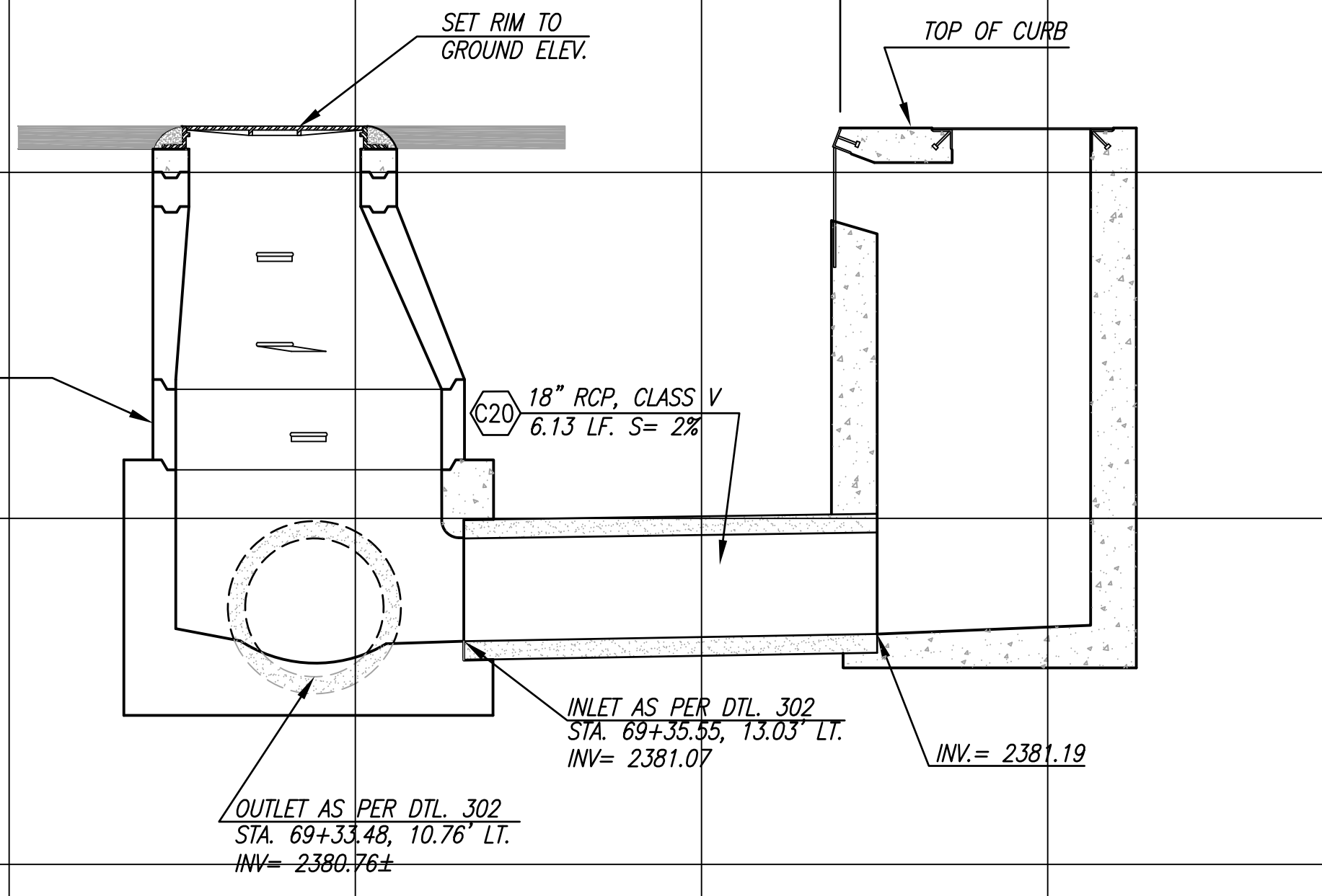


2390

PC/COT STD. DTL. 302  
STA 69+35.73, 10.78' LT.

2385

2380



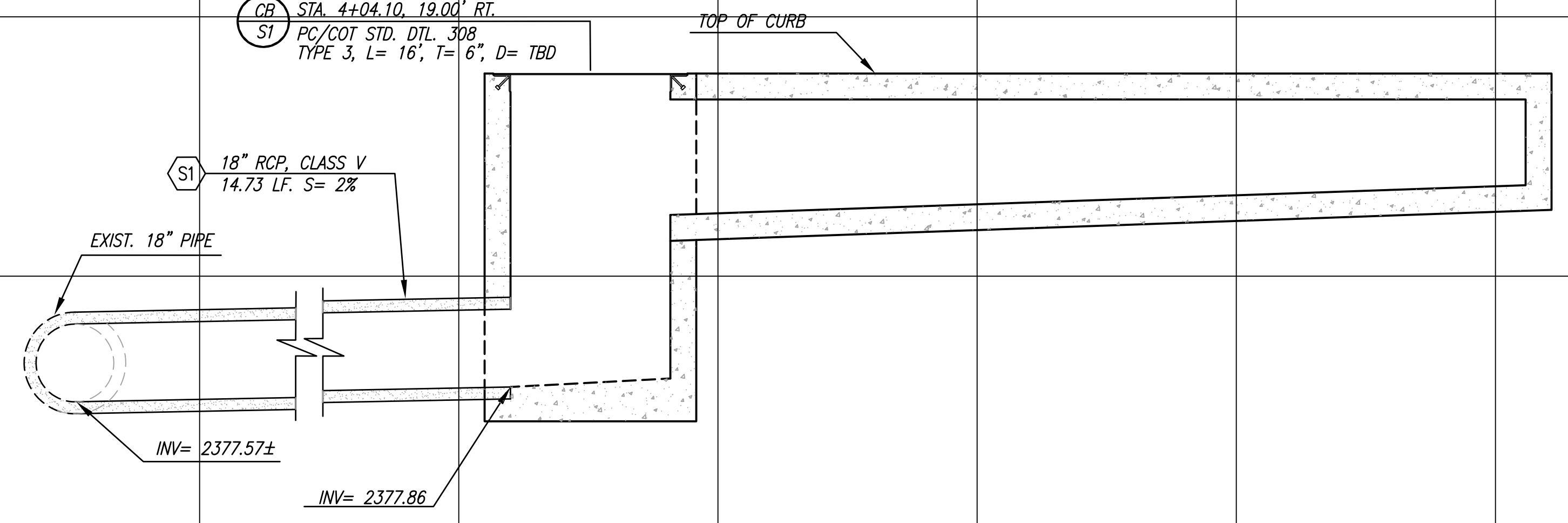
STA 69+35.63, LT. (CONGRESS ST.)

2385

CB STA 4+04.10, 19.00' RT.  
SI PC/COT STD. DTL. 308  
TYPE 3, L= 16', T= 6", D= TBD

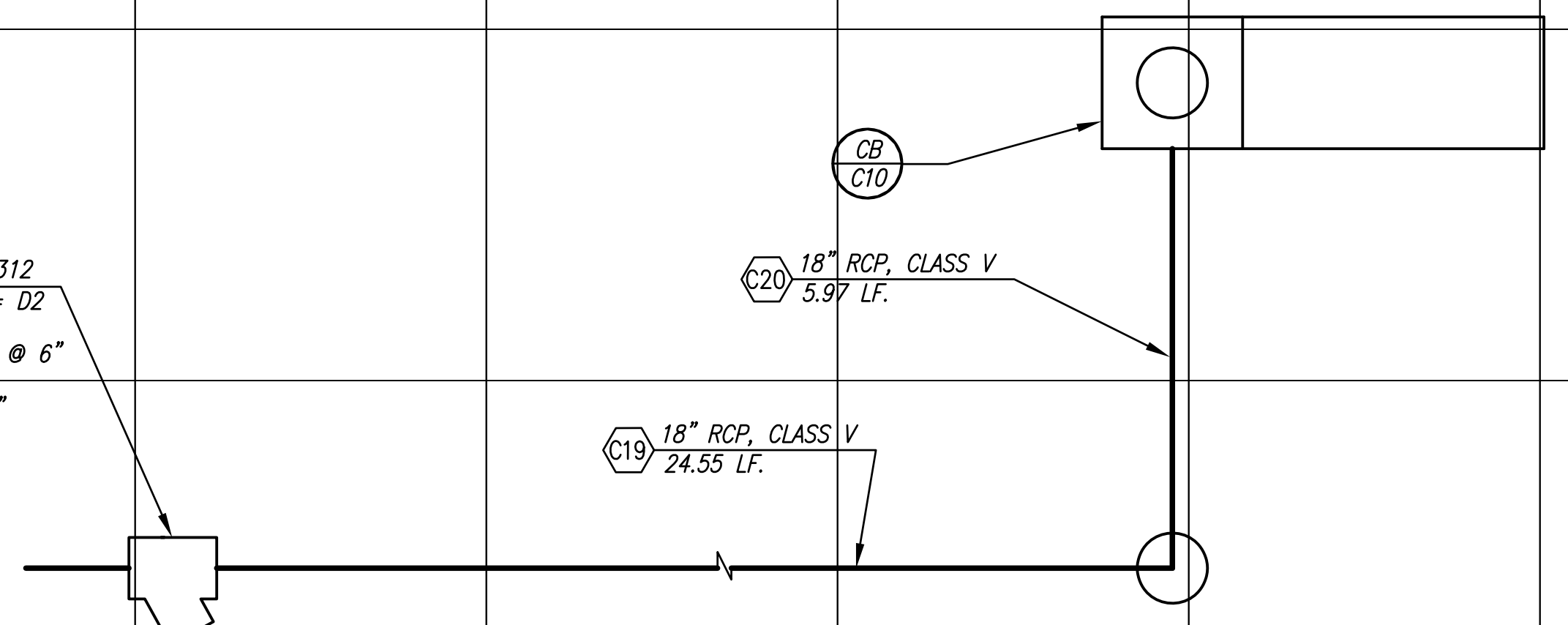
2380

2375



STA 4+4.10, RT. (SCOTT AVE.)

COT/PC STD. DTL. 312  
S=82.17, D1= 2' = D2  
ANGLE A= 61.06°  
A & B BARS = #3 @ 6"  
C BARS = #4 @ 6"  
F BARS = #4 @ 6"  
C= 4.25'  
E= 3.47'  
L= 5'  
F= 5.25'  
T= 4.5"  
B= 18"



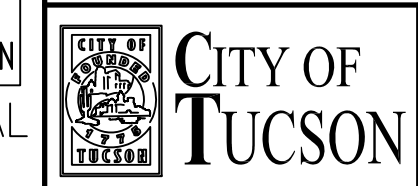
STA 69+05.86, LT. (CONGRESS ST.)

### STORM DRAIN DETAILS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

49  
OF  
184

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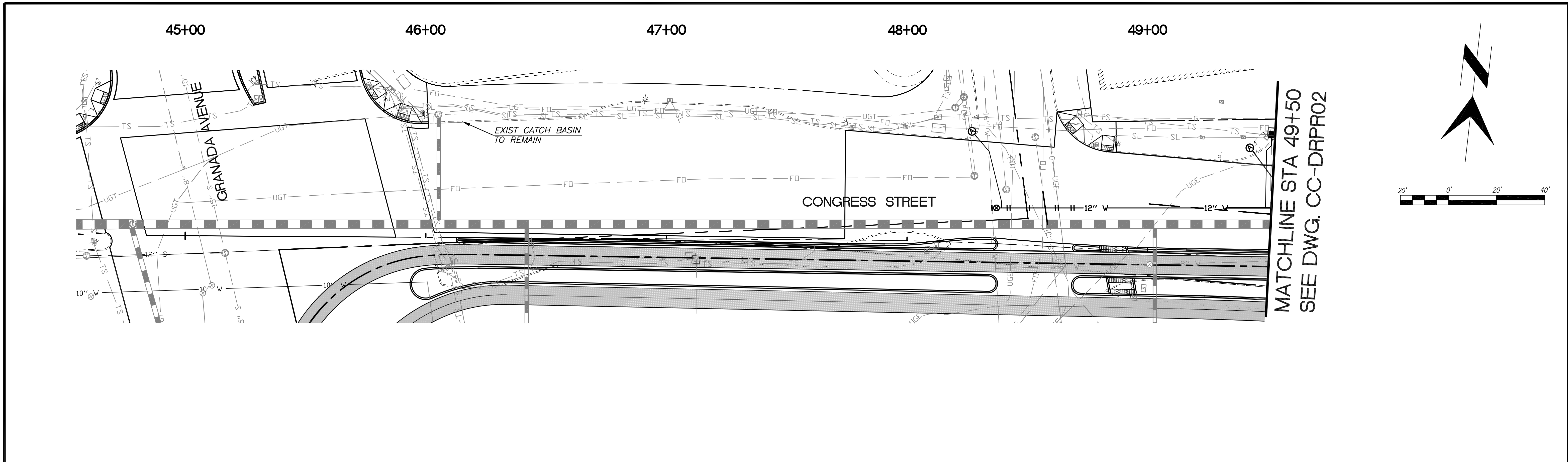
DRWN. BY R. MORIN  
DSGN. BY N. PIERSON  
CHKD. BY A. BATT, R. WELCH

REF. CC-DRDT04 SCALE: 1"=20'  
PLAN NO. I-2008-035

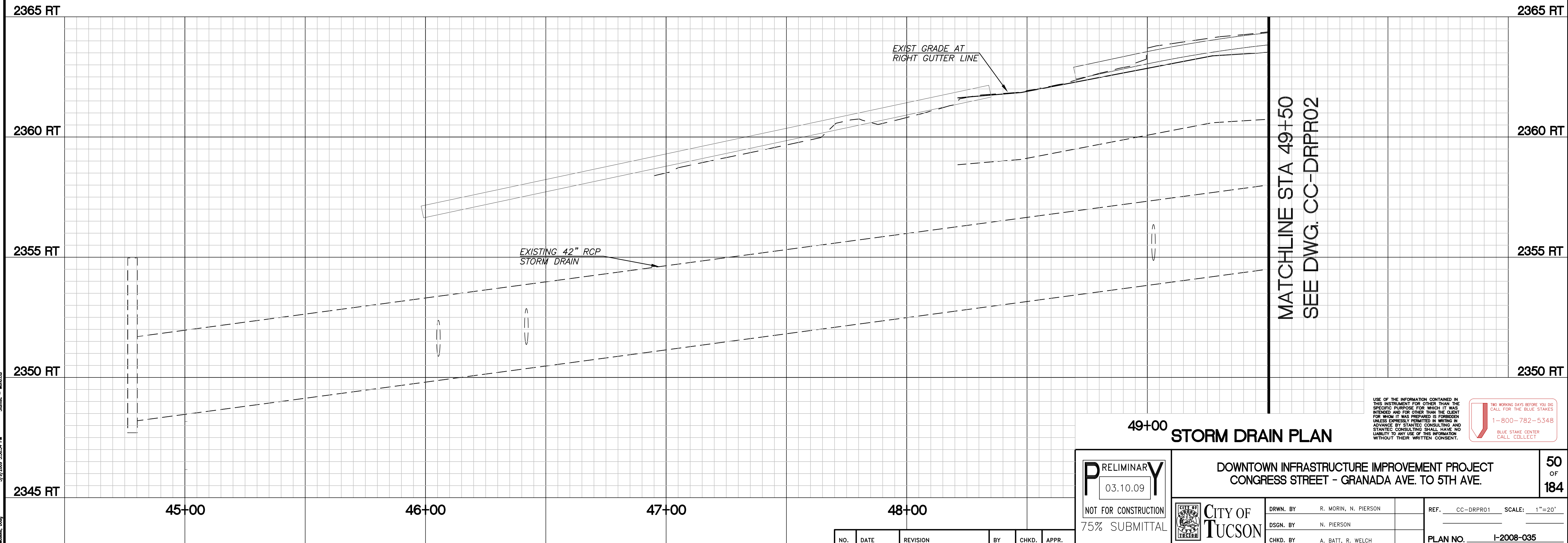
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BLUE STAKE CENTER  
CALL COLLECT

NO.	DATE	REVISION	BY	CHKD.	APPR.

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Shane - Mmcb  
Mwls, Doug



MATCHLINE STA 49+50  
SEE DWG. CC-DRPR02



MATCHLINE STA 49+50  
SEE DWG. CC-DRPR02

49+00 STORM DRAIN PLAN

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BLUE STAKE CENTER  
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**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

CITY OF TUCSON

DRWN. BY R. MORIN, N. PIERSON  
DSGN. BY N. PIERSON  
CHKD. BY A. BATT, R. WELCH

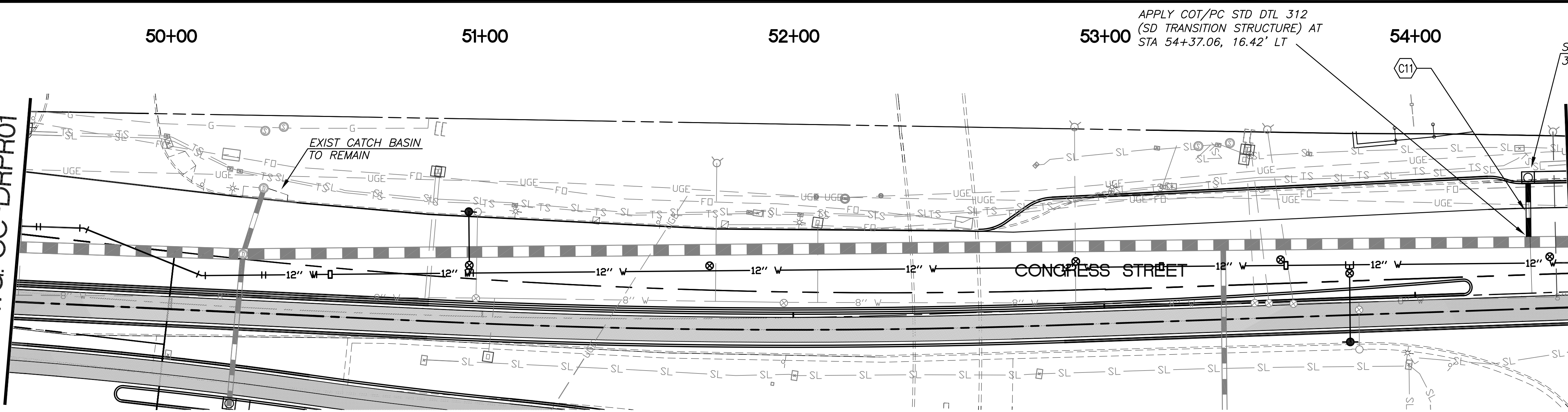
REF. CC-DRPR01 SCALE: 1"=20'  
PLAN NO. I-2008-035

50 OF 184

NO.	DATE	REVISION	BY	CHKD.	APPR.

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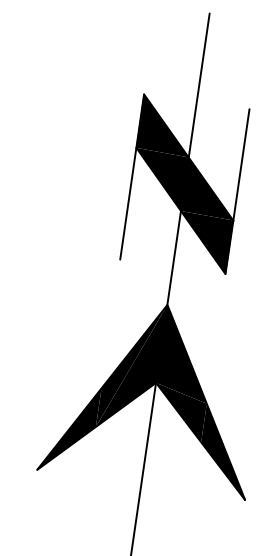
MATCHLINE STA 49+50  
SEE DWG. CC-DRPR01



MATCHLINE STA 54+50  
SEE DWG. CC-DRPR03

APPLY COT/PC STD DTL 312  
(SD TRANSITION STRUCTURE) AT  
STA 54+37.06, 16.42' LT

STA 54+37.54 (CB)  
35.31' LT (C1)



2380 FT

2380 FT

2375 FT

2375 FT

2370 FT

2370 FT

2365 FT

2365 FT

2360 FT

2360 FT

2355 FT

2355 FT

RIGHT GUTTER LINE ← → LEFT GUTTER LINE

MATCHLINE STA 49+50  
SEE DWG. CC-DRPR01

MATCHLINE STA 54+50  
SEE DWG. CC-DRPR03

EXIST GRADE AT  
RIGHT GUTTER LINE

EXIST GRADE AT  
LEFT GUTTER LINE

PROPOSED GRADE AT  
LEFT GUTTER LINE

EXISTING 42" RCP  
STORM DRAIN

(C1) PROPOSED 18" RCP  
LATERAL

G = 3.22%

G = 4.46%

G = 5.3%

55+00

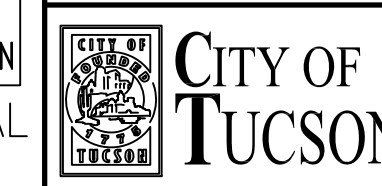
54+00

**STORM DRAIN PLAN**

**P** RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

51  
OF  
184



DRWN. BY R. MORIN, N. PIERSON  
DSGN. BY N. PIERSON  
CHKD. BY A. BATT, R. WELCH

REF. CC-DRPR02 SCALE: 1"=20'  
PLAN NO. I-2008-035

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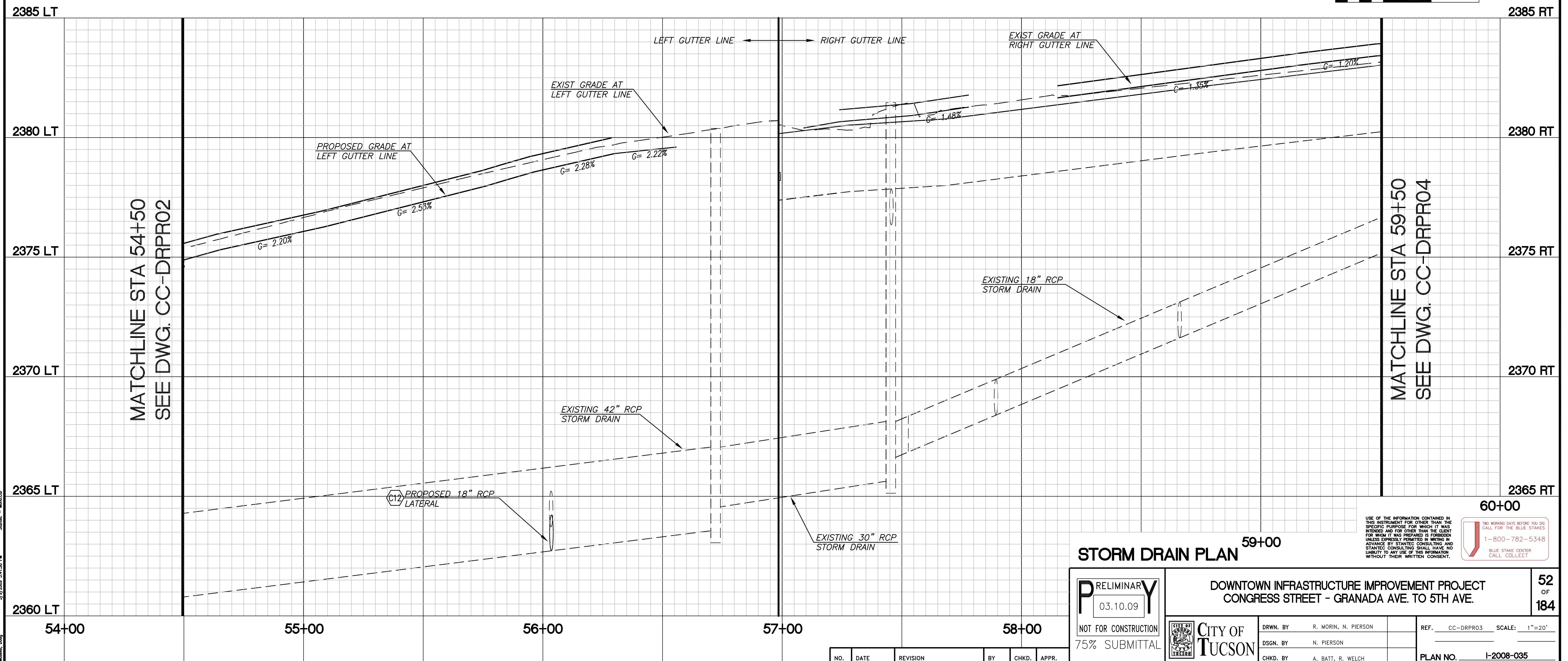
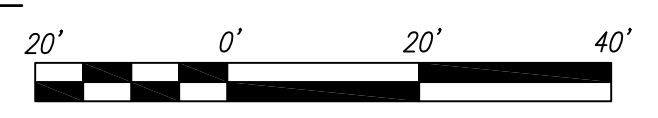
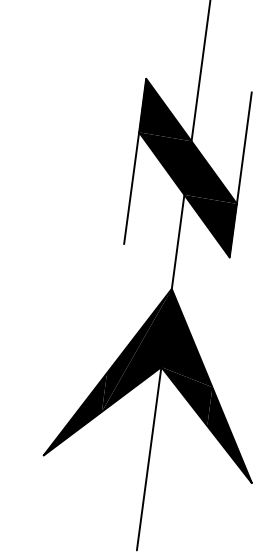
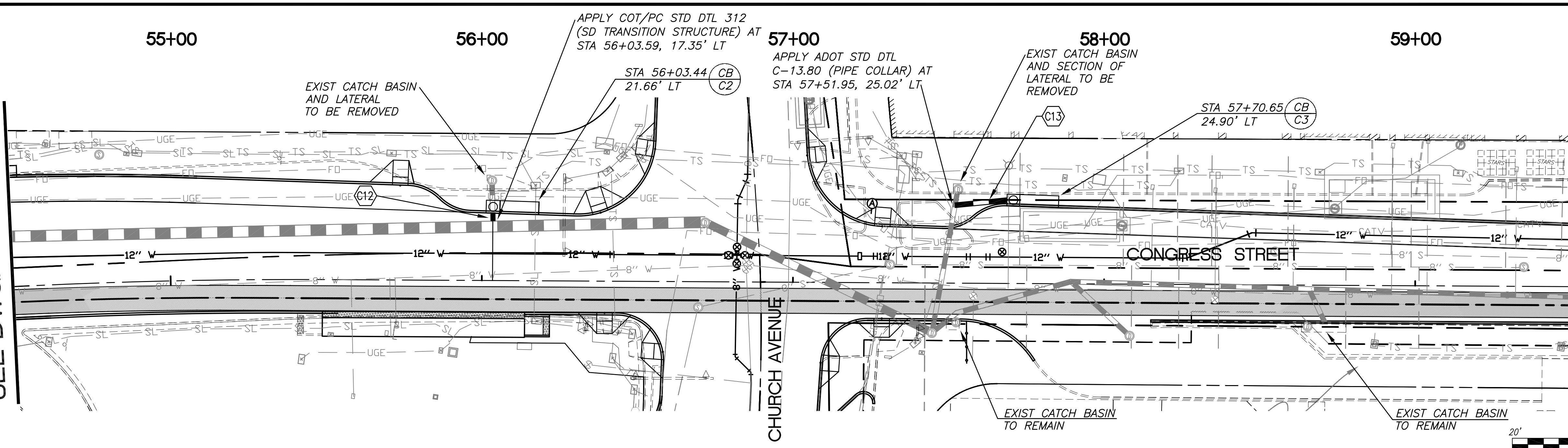
TWO WORKING DAYS BEFORE YOU DIG CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 P:\Half\1000\_S&S\Stamiec.cb  
 Mikes, Doug

MATCHLINE STA 54+50  
SEE DWG. CC-DRPR02

MATCHLINE STA 59+50  
SEE DWG. CC-DRPR04



MATCHLINE STA 54+50  
SEE DWG. CC-DRPR02

MATCHLINE STA 59+50  
SEE DWG. CC-DRPR04

**STORM DRAIN PLAN**

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		52 OF 184
DRWN. BY R. MORIN, N. PIERSON DSGN. BY N. PIERSON CHKD. BY A. BATT, R. WELCH	REF. CC-DRPR03 SCALE: 1"=20' PLAN NO. I-2008-035	CITY OF <b>TUCSON</b>

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BLUE STAKE CENTER  
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 Modifiable: Yes

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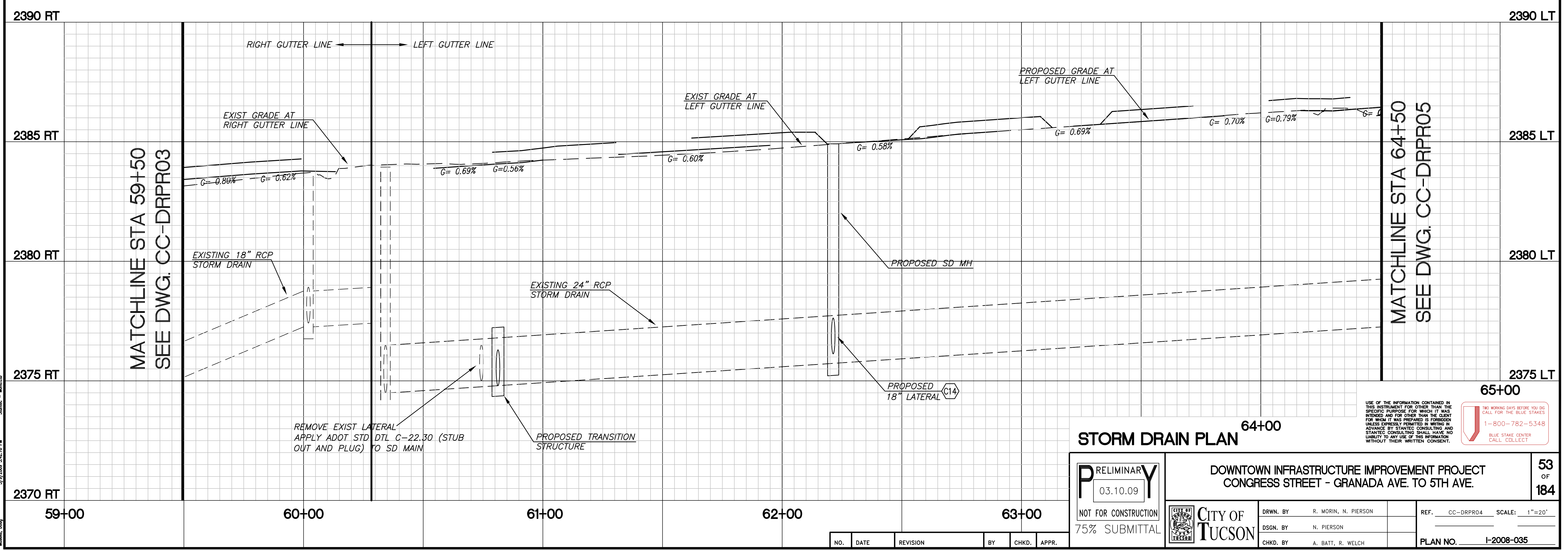
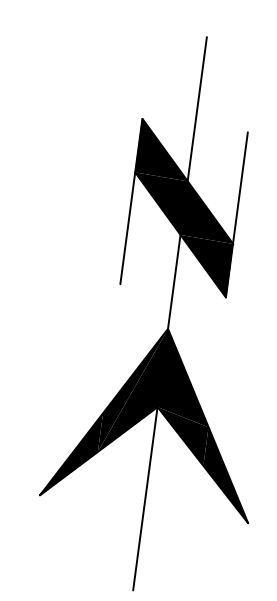
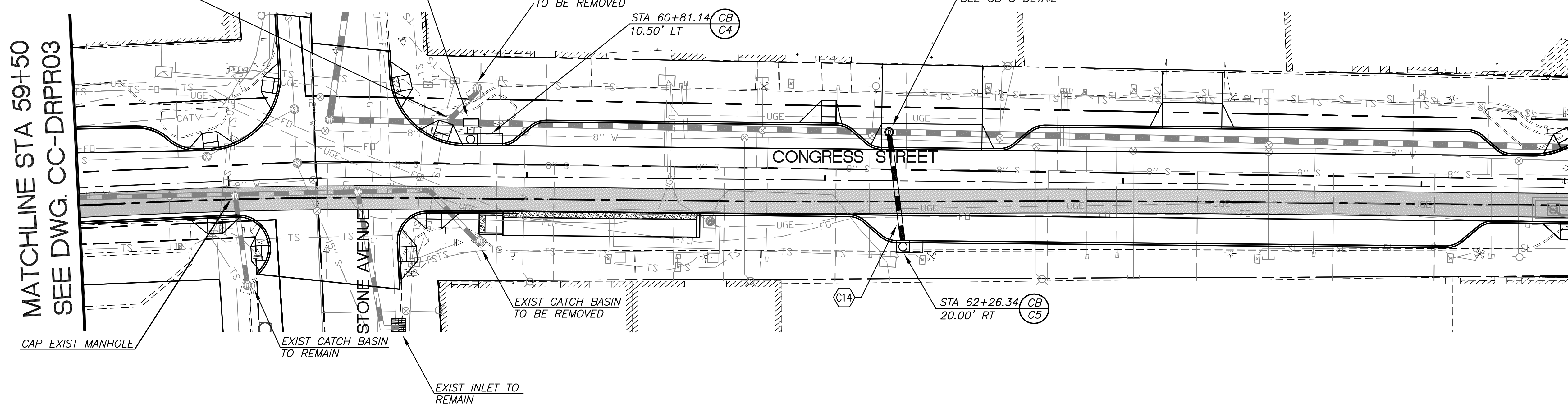
APPLY ADOT STD DTL C-22.30 (STUB OUT AND PLUG) TO SD MAIN AT APPROX. STA 60+74.32, 19.32' LT

APPLY COT/PC STD DTL 312 (SD TRANSITION STRUCTURE) AT STA 60+81.25, 18.08' LT

COT/PC STD DTL 302 (STORM DRAIN MH) STA 62+21.32, 16.31' LT SEE CB 5 DETAIL

MATCHLINE STA 59+50  
SEE DWG. CC-DRPR03

MATCHLINE STA 64+50  
SEE DWG. CC-DRPR05



**STORM DRAIN PLAN**

64+00

**PRELIMINARY**  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT**  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

DRWN. BY R. MORIN, N. PIERSON  
DSGN. BY N. PIERSON  
CHKD. BY A. BATT, R. WELCH

REF. CC-DRPR04 SCALE: 1"=20'  
PLAN NO. I-2008-035

53 OF 184

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BLUE STAKE CENTER CALL COLLECT

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 3/9/2009 3:42:16 PM  
 Males, Doug  
 Statute - Mma.cad

APPLY COT/PC STD DTL 312 (SD TRANSITION STRUCTURE) AT STA 64+87.87, 14.88' RT SEE CB C7 DETAIL

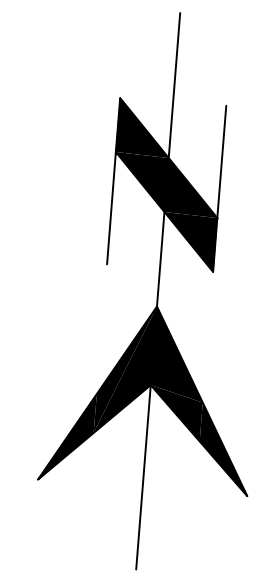
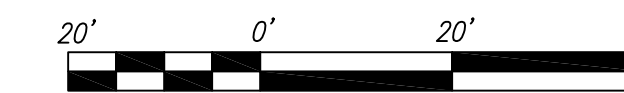
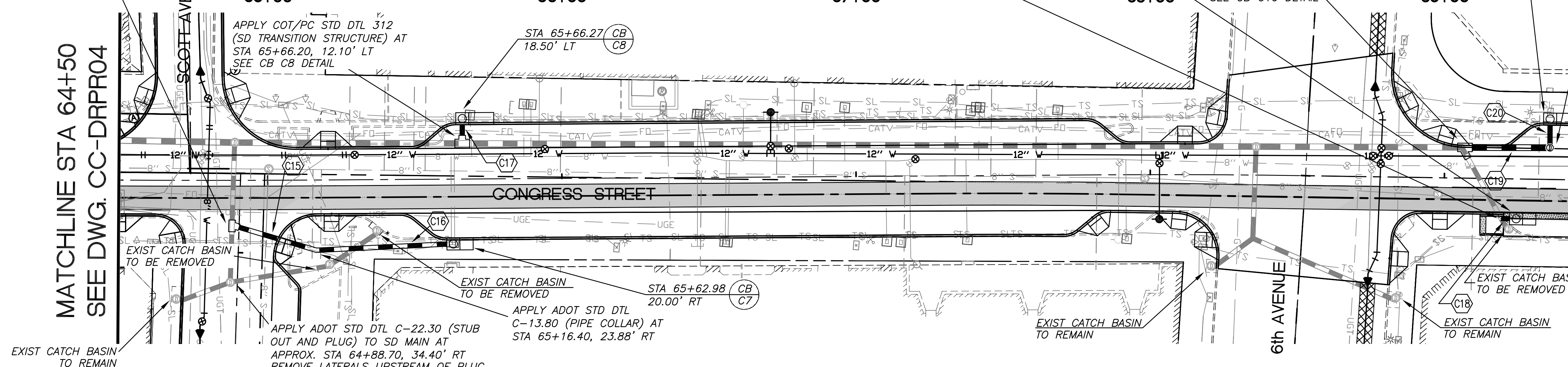
APPLY ADOT STD DTL C-13.80 (PIPE COLLAR) AT STA 69+19.48, 13.54' RT

APPLY COT/PC STD DTL 312 (SD TRANSITION STRUCTURE) AT STA 69+05.86, 10.44' LT SEE CB C10 DETAIL

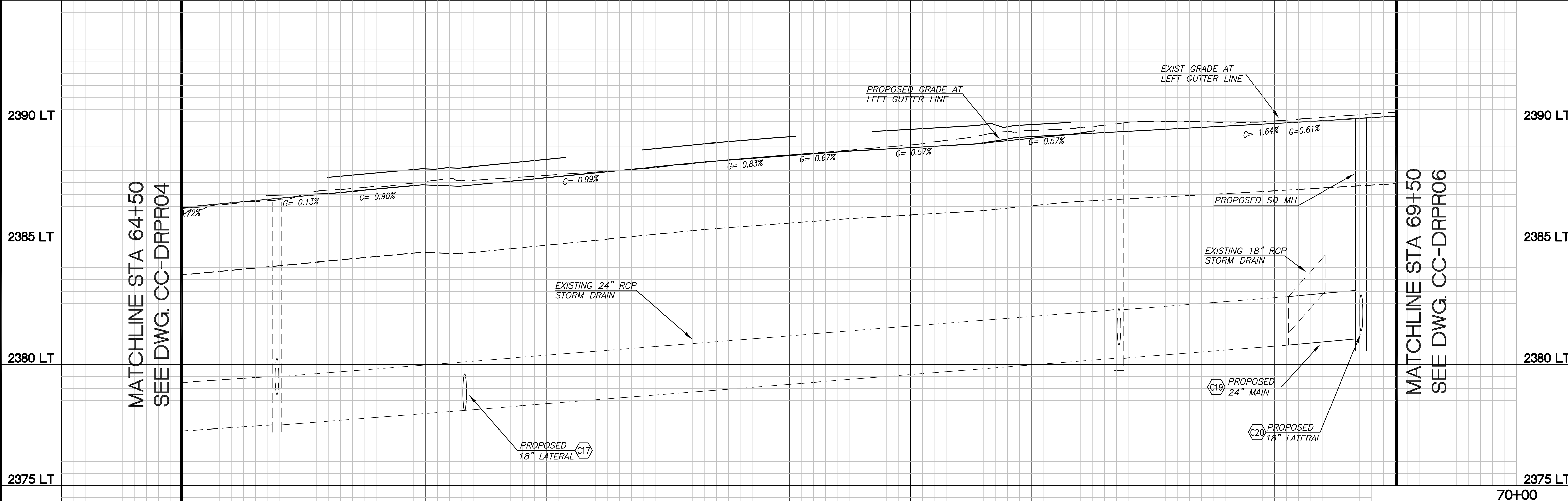
COT/PC STD DTL 302 (STORM DRAIN MH) STA 69+35.73, 10.78' LT SEE CB 10 DETAIL

MATCHLINE STA 64+50  
SEE DWG. CC-DRPR04

MATCHLINE STA 69+50  
SEE DWG. CC-DRPR06



2395 LT 2395 LT



MATCHLINE STA 64+50  
SEE DWG. CC-DRPR04

MATCHLINE STA 69+50  
SEE DWG. CC-DRPR06

2375 LT 2375 LT

2370 LT 2370 LT

64+00	65+00	66+00	67+00	68+00	69+00	70+00
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**STORM DRAIN PLAN** 69+00

PRELIMINARY 03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

CITY OF TUCSON

DRWN. BY: R. MORIN, N. PIERSON  
DSGN. BY: N. PIERSON  
CHKD. BY: A. BATT, R. WELCH

REF: CC-DRPR05 SCALE: 1"=20'  
PLAN NO. I-2008-035

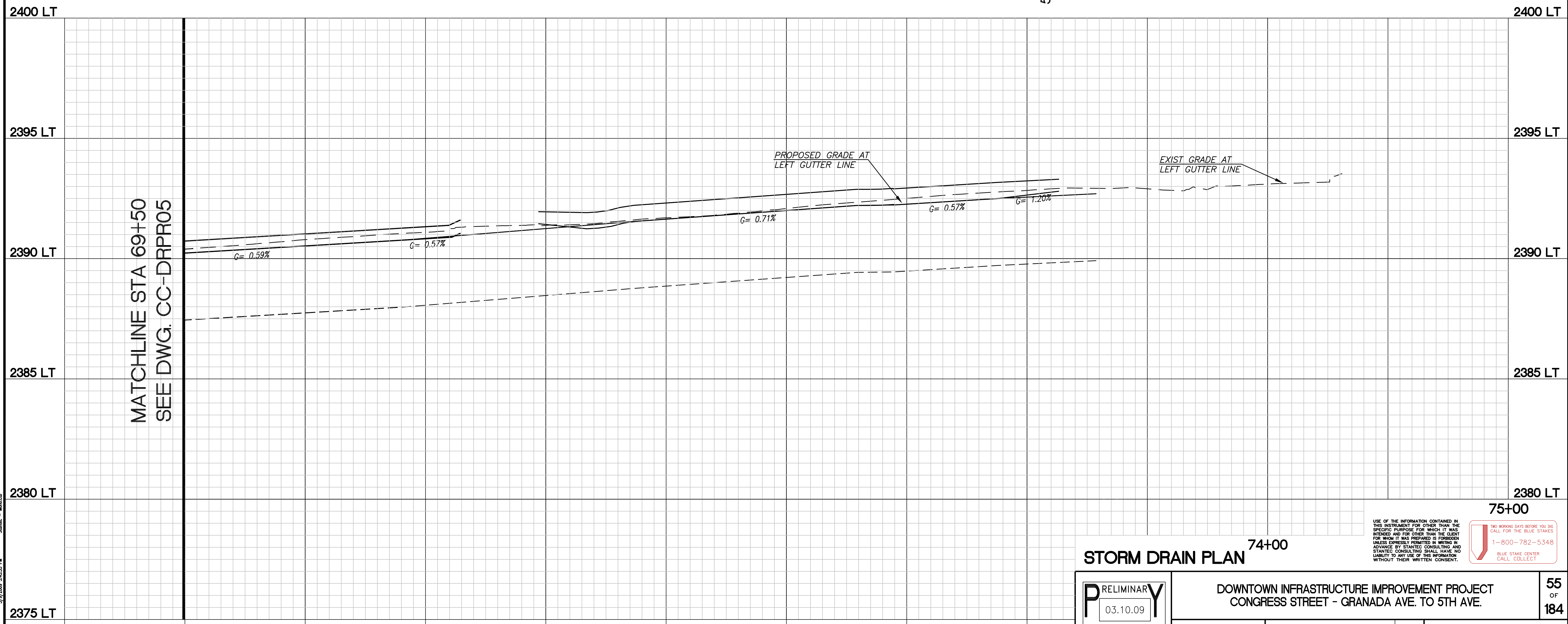
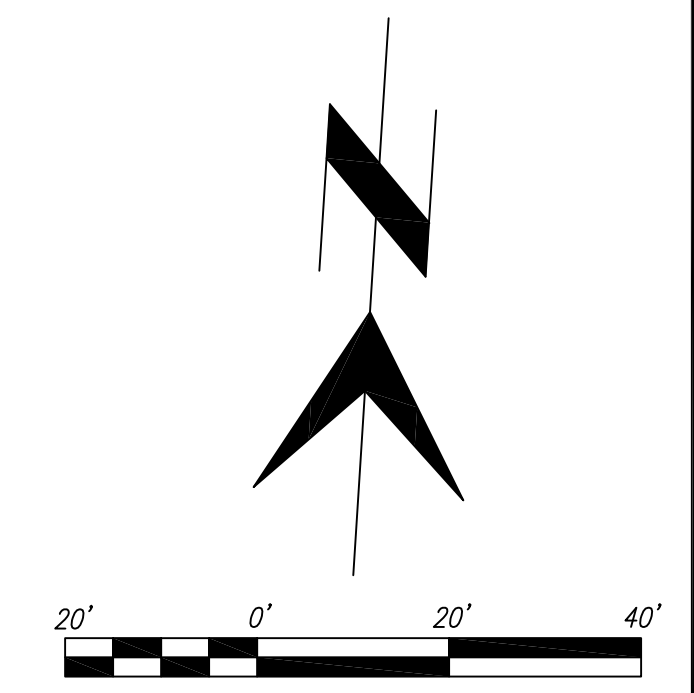
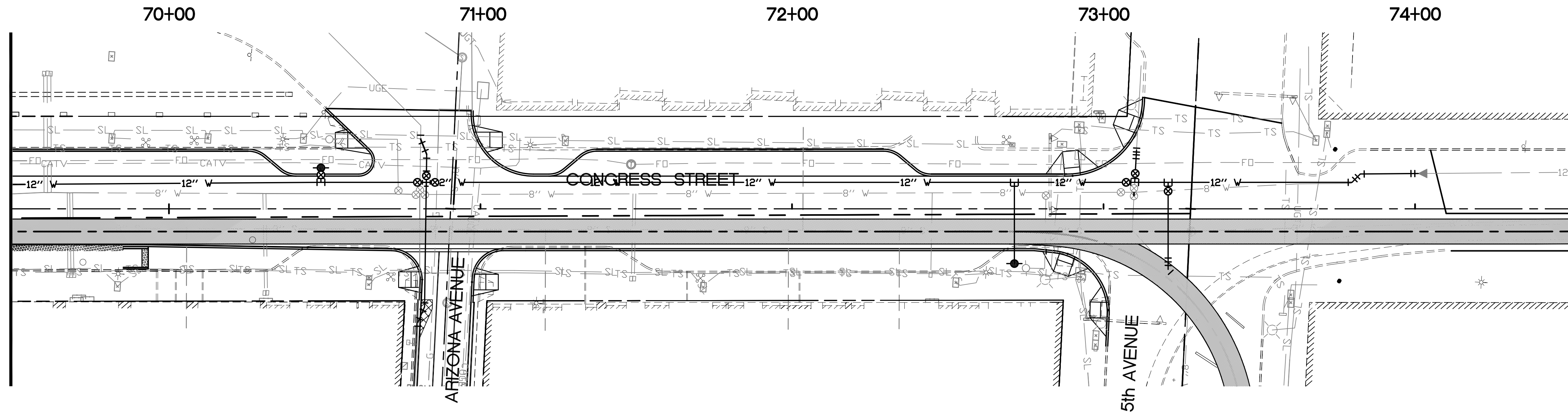
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1-800-782-5348  
BLUE STAKE CENTER CALL COLLECT

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SEE DWG. CC-DRPR05

**STORM DRAIN PLAN** 74+00

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<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		55 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY R. MORIN, N. PIERSON DSGN. BY N. PIERSON CHKD. BY A. BATT, R. WELCH	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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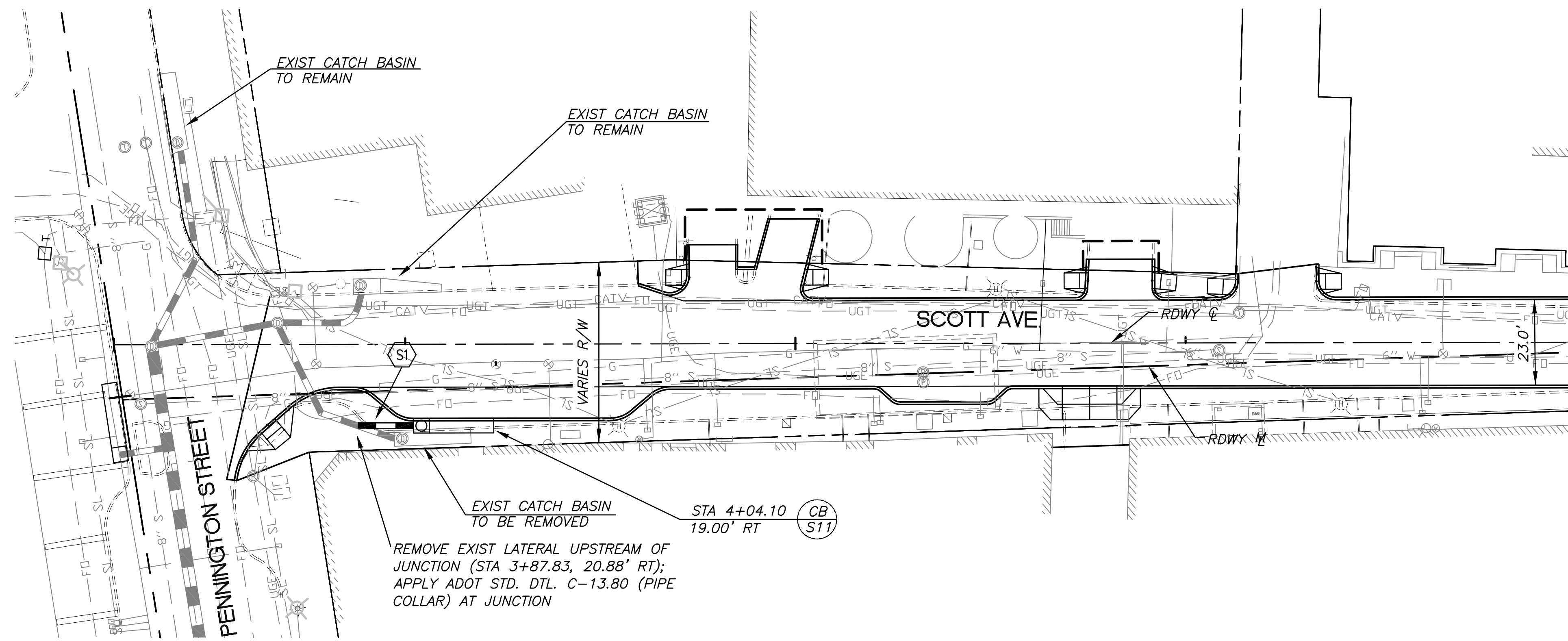
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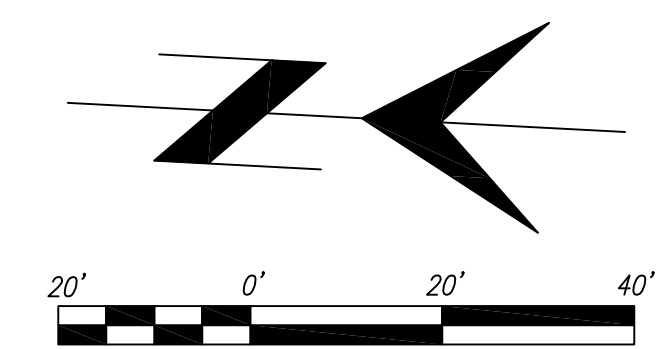
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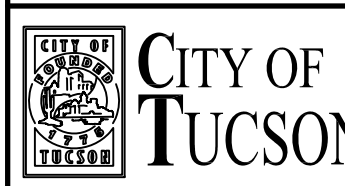


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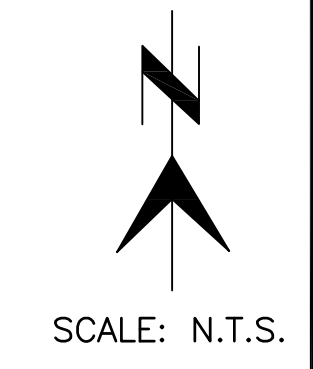
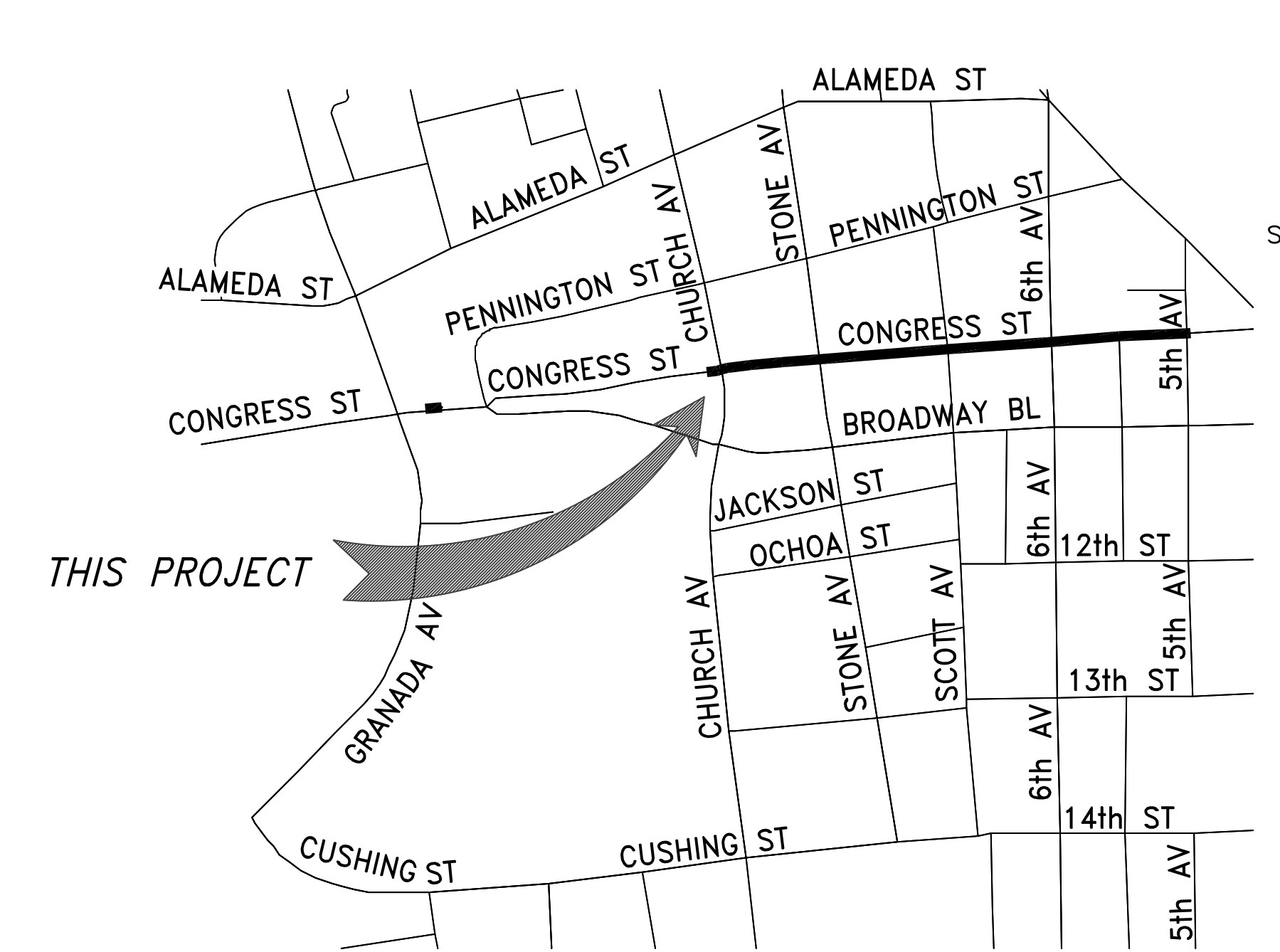
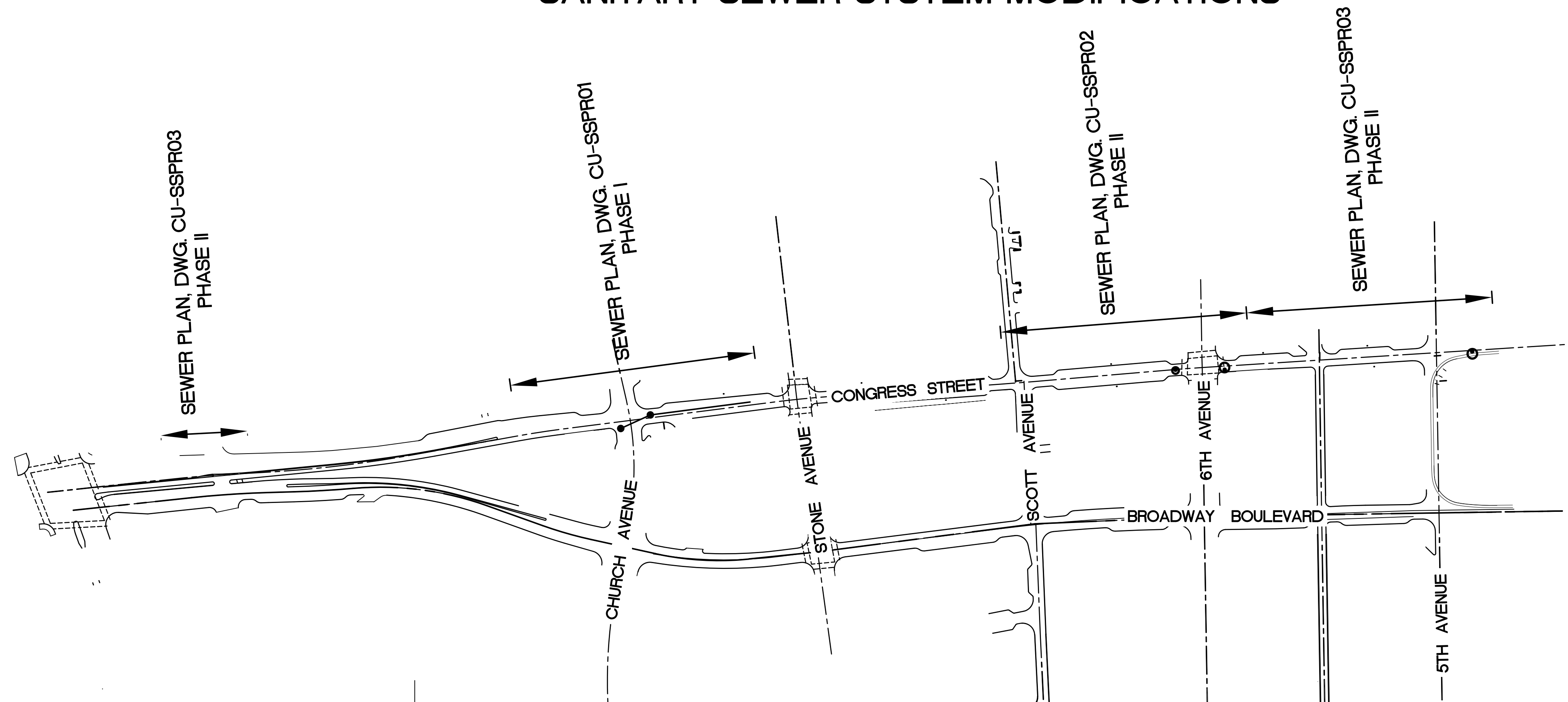
**STORM DRAIN PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-PENNINGTON ST. TO BROADWAY BLVD.		<b>56</b> OF <b>184</b>
	 CITY OF <b>TUCSON</b>	DRWN. BY N. PIERSON DSGN. BY N. PIERSON CHKD. BY A. BATT	REF. SC-DRPR01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



# DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET SANITARY SEWER SYSTEM MODIFICATIONS



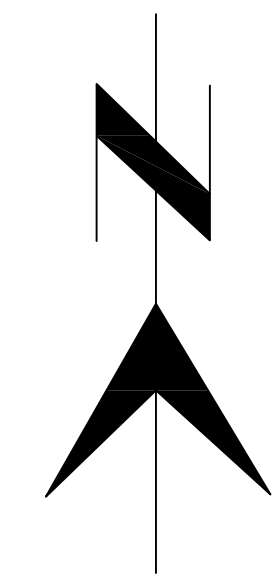
### LOCATION PLAN

SEC. 12 & 13, T14S, R13E  
G. & S.R.M.  
CITY OF TUCSON, PIMA COUNTY, ARIZONA  
LATITUDE 32°11'N, LONGITUDE 110°93'W

### SHEET INDEX PLAN

SHEET	DESCRIPTION
57	COVER SHEET
58	GENERAL NOTES, LEGEND
59	DETAIL SHEET
60-62	PLAN & PROFILE

1" = 200'



PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT \_\_\_\_\_ DATE

PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY \_\_\_\_\_ DATE

### SEWER PLAN G-2008-091

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		57 OF 184
	CITY OF TUCSON	DRWN. BY M. MOLLENKOPF DSGN. BY L. LOHNER CHKD. BY A. BATT	REF. CU-SSGN01 SCALE: 1"=200' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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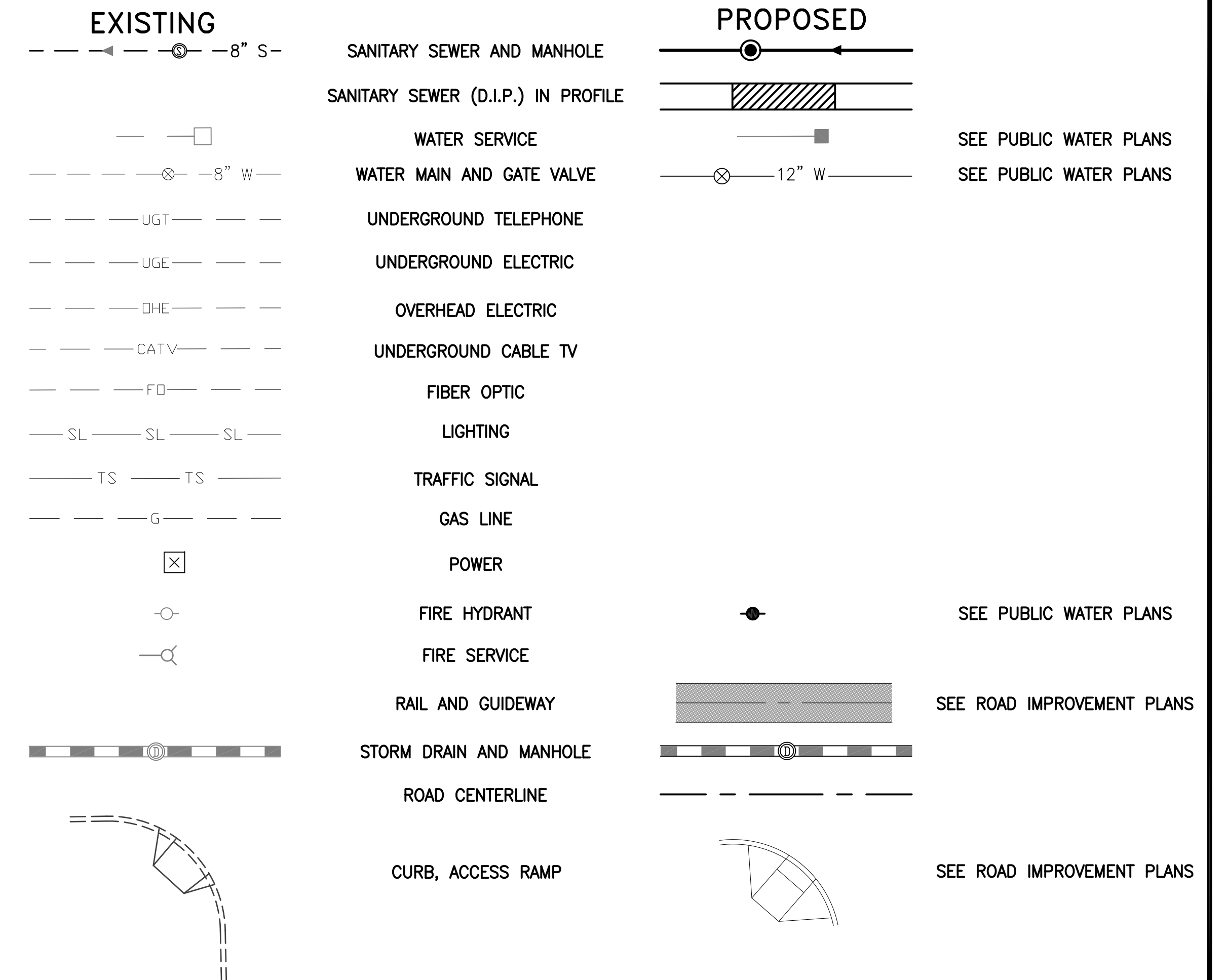
**GENERAL SANITARY SEWER CONSTRUCTION NOTES**

- THE DESIGN OF THIS SEWER SYSTEM IS BASED ON "AS BUILT" DRAWINGS, FIELD SURVEYS AND OTHER AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY THE SITE CONDITIONS PRIOR TO COMMENCING WORK, AND NOTIFY THE ENGINEER OF ALL DISCREPANCIES FOUND.
- ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT'S (PCRWRD) MANUAL OF ENGINEERING STANDARDS AND PROCEDURES, AND THE PIMA COUNTY / CITY OF TUCSON (PC/COT) STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. SAID MANUALS ARE ON FILE AT THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT OFFICE: 201 N. STONE AVENUE, 8TH FLOOR.
- THE DESIGN AND CONSTRUCTION OF THE SANITARY SEWER SYSTEM SHALL COMPLY WITH THE STATE OF ARIZONA ADMINISTRATIVE CODE, TITLE 18 - ENVIRONMENTAL QUALITY, AND THE RULES AND REGULATIONS OF THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ).
- BEDDING SHALL BE IN ACCORDANCE WITH ENGINEERING DIRECTIVE ENG2008-16 (MODIFIED STANDARD DETAILS 104 AND 105) OR AS SHOWN ON THE PLANS. SHOULD GROUND WATER OR OTHER UNANTICIPATED SOIL CONDITION BE ENCOUNTERED, THE BEDDING SHALL BE MODIFIED AS DIRECTED BY THE ENGINEER.
- THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN PUBLIC WATER MAINS AND PUBLIC SANITARY SEWER MANHOLES AND MAINS WILL BE IN ACCORDANCE WITH PC/COT STANDARD DETAIL WMM 108.
- THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL "BLUE STAKE" (1-800-782-5348), A MINIMUM OF TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLE STRUCTURES TO FINISHED GRADE. ALL RING AND COVER ADJUSTMENTS ARE TO BE IN ACCORDANCE WITH THE CITY OF TUCSON/PIMA COUNTY STANDARD DETAILS FOR PUBLIC IMPROVEMENTS WMM 304, WMM 305 OR WMM 306 (AS APPLICABLE) AND WMM 307. WHILE ADJUSTING THE MANHOLE TO FINISHED GRADE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT RINGS AND COVERS ARE CLEANED OF ANY AND ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.), AND ENSURE THAT ANY VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS. IF THE FRAMES AND COVERS ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED, THEN A NEW FRAME AND COVER IS TO BE PUT INTO PLACE, AND COST ASSOCIATED WITH THESE ACTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO DETAILS WMM 213.0-214.3 FOR REQUIREMENTS FOR RINGS AND COVERS.
- SEWER CONSTRUCTION/MODIFICATIONS SHALL PROGRESS FROM DOWNSTREAM TO UPSTREAM UNLESS APPROVED IN WRITING BY PCRWRD.
- THE CONTRACTOR SHALL FURNISH, OPERATE, AND MAINTAIN ALL EQUIPMENT NECESSARY TO PROVIDE SEWER SERVICE TO ALL PARTIES TRIBUTARY TO A LIVE SEWER TO WHICH MODIFICATIONS ARE TO BE MADE. ALL AFFECTED PROPERTY OWNERS MUST BE NOTIFIED 48 HOURS PRIOR TO STARTING ANY CONSTRUCTION THAT WILL AFFECT LIVE SEWERS.
- PC/COT STD. DTL. WMM-106 SHALL APPLY TO THIS PROJECT.
- THE PIPE LENGTH DIMENSIONS SHOWN ON THE PROFILE ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
- 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 FIELD ENGINEERING (740-2651) OR PCRWRD FIELD OPERATIONS (326-4333). ON WEEKENDS, HOLIDAYS, OR BETWEEN 5:00 PM AND 8:00 AM, IMMEDIATELY CALL THE PIMA COUNTY SHERIFF'S COMMUNICATION CENTER AT 295-4595 OR 791-4911 AND REQUEST A PCRWRD REPRESENTATIVE 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 COST TO REPAIR THE SEWER SYSTEM, FOR ALL EXPENSES TO MITIGATE THE RELEASE AND TO DISINFECT THE RELEASE AREA, 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 THE PCRWRD FIELD ENGINEERING MANGER.
- CONNECTION TO SEWER MAINS OF UNLIKE MATERIALS SHALL BE MADE WITH THE APPROVED COUPLINGS PER PC/COT STD. DTL. WMM-103.
- THE CONTRACTOR MUST PROVIDE UNINTERRUPTED SERVICE TO ALL PARTIES TRIBUTARY TO AN EXISTING ACTIVE SANITARY SEWER. WHENEVER FLOW IN AN EXISTING ACTIVE SANITARY SEWER MUST BE INTERRUPTED, THE CONTRACTOR SHALL PROVIDE PC/COT WITH A PLAN DETAILING HOW THIS WILL BE ACCOMPLISHED. IF THE PLAN INCLUDES BY-PASS PUMPING, THE PLAN MUST INCLUDE MULTIPLE PUMPS WITH A COMBINED CAPACITY THAT EXCEEDS THE PROJECTED PEAK WET WEATHER FLOW. NO CONSTRUCTION THAT WILL CAUSE INTERRUPTION OF FLOW IN AN EXISTING SANITARY SEWER, MAY PROCEED UNTIL THE OWNER HAS REVIEWED AND APPROVED THE PLANS FOR PROVIDING UNINTERRUPTED SERVICE. PLEASE CONTACT THE OWNER TO REQUEST FLOW METERING REQUIRED TO PROPERLY SIZE BY-PASS BUMPS. PLEASE ALLOW, AT LEAST THREE WEEKS FOR METER TO BE SET, THE DATA TO BE COLLECTED AND PROCESSED, AND A REPORT TO BE PREPARED. MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY DIVERSION OR INTERRUPTION OF SEWERAGE FLOW.
- ACCORDING TO THE REVISED "BLUE STAKE LAW" (ARS 40-360.21 THROUGH ARS 40-360.32), THIS PROJECT IS SUBJECT TO NEW PRIVATE SEWER LATERAL DESIGN AND CONSTRUCTION REQUIREMENTS PER PIMA COUNTY WASTEWATER MANAGEMENT DIRECTIVE ENG2005-01 AND REVISED PC/COT STANDARD DETAIL WMM 401. SEE WWW.PIMA.GOV/WMM/STDDT/INDEX.HTM.
- SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY (PDEQ) HAS ISSUED A "CERTIFICATE OF CONSTRUCTION AUTHORIZATION" FOR THIS PROJECT. (B) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (740-6369). (C) 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) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- AS-BUILT PLANS SHALL BE REQUIRED WHEN CONSTRUCTION IS COMPLETE. SUBMIT THREE BLACK LINE COPIES AND AN ELECTRONIC VERSION TO THE PCRWRD OR PCDOT INSPECTOR. CONTACT PCRWRD, MAPS AND RECORDS (740-6646), FOR ACCEPTABLE ELECTRONIC FORMATS.
- THE BASIS OF ELEVATION FOR THIS PROJECT IS THE USGS BCSM IN MARBLE FOUNDATION OF US COURT HOUSE #55 EAST BROADWAY SAID ELEVATION BEING 2390.72.
- THE BASIS OF BEARING FOR THE PROJECT ARE THE CAPS BETWEEN 13TH AND 14TH STREET ON SCOTT AVENUE, SAID BEARING BEING N 02°42'56" W.
- WHENEVER CONNECTING TO A LIVE SEWER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO: (A) IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE SEWER CONSTRUCTION BID SUBMITTED WITH THE PUBLIC SEWER PERMIT APPLICATION. (B) PROVIDE A FLOW MANAGEMENT PLAN, THIRTY (30) DAYS PRIOR TO A PRE-CONSTRUCTION MEETING WITH WASTEWATER FIELD ENGINEERING. PRIOR TO SEWER CONSTRUCTION. REFER TO DETAIL WMM A-5 FOR FLOW MANAGEMENT PLAN REQUIREMENTS. CALL REGIONAL WASTEWATER FIELD ENGINEERING (520) 740-2651 REGARDING ALL QUESTIONS INVOLVING PREPARATION OF FLOW MANAGEMENT PLANS.
- A STAMPED SET OF APPROVED PLANS WILL BE AT THE JOB SITE AT ALL TIMES.

**GENERAL SANITARY SEWER CONSTRUCTION NOTES CONT'D**

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- FILL OVER SEWER SHALL BE PLACED TO 95% MAXIMUM DENSITY IN STREETS AND TO 90% MAXIMUM DENSITY IN ALL OTHER AREAS.
- ALL NEW MANHOLES SHALL BE CONSTRUCTED ACCORDING TO PC/COT S.D. WMM-208 UNLESS NOTED OTHERWISE ON PLANS.
- AT ALL NEW SEWER MAINS, CONTRACTOR SHALL REPLACE EXISTING HCS'S FROM THE NEW MAIN TO THE RIGHT-OF-WAY, PER WMM 404 (REVISED JUNE 2006).
- ALL NEW WATER MAIN CONSTRUCTED BELOW SEWER MAINS OR HCS LATERALS SHALL BE D.I.P. PER WMM 108. SEE PUBLIC WATER PLANS FOR DETAILS.
- ENGINEERING DIRECTIVE, ENG2006-09, APPLIES TO ANY PROJECT THAT REQUIRES TRENCHING WITHIN 6' HORIZONTAL, OR 2' VERTICAL, OF AN EXISTING PUBLIC SEWER MAIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO: (A) IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BID. (B) PROVIDE A FLOW MANAGEMENT PLAN, THIRTY (30) DAYS PRIOR TO A PRE-CONSTRUCTION MEETING WITH WASTEWATER FIELD ENGINEERING, PRECEDING ANY WORK THAT MAY AFFECT A LIVE SEWER. REFER TO DETAIL WMM A-5 FOR FLOW MANAGEMENT PLAN REQUIREMENTS. CALL REGIONAL WASTEWATER FIELD ENGINEERING AT (520) 740-2651 REGARDING ALL QUESTIONS INVOLVING PREPARATION OF FLOW MANAGEMENT PLANS.

**SEWER SYSTEM MODIFICATION LEGEND**



**ABBREVIATIONS**

PCRWRD	PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
PDEQ	PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY
MH	MANHOLE
CO	CLEANOUT
DIP	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCP	VITRIFIED CLAY PIPE
HCS	HOUSE OR BUILDING SEWER CONNECTION
WMM#	PIMA COUNTY/CITY OF TUCSON STANDARD DETAIL NUMBER
EXST.	EXISTING

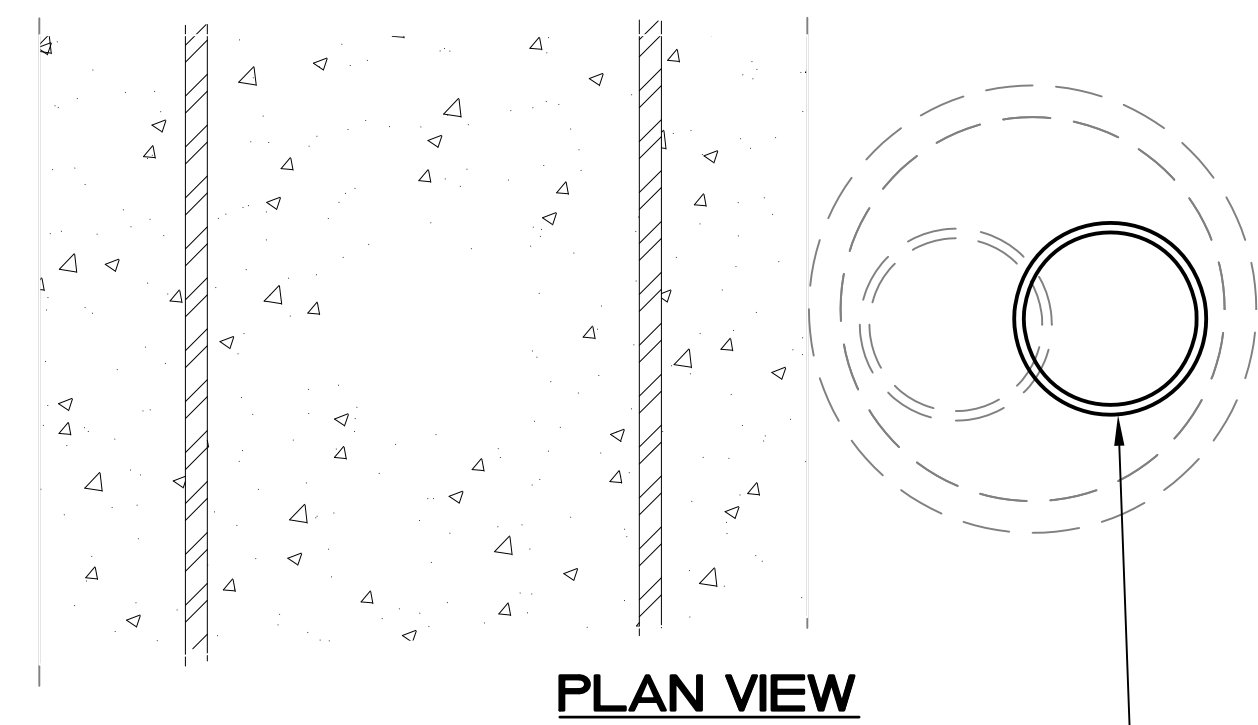
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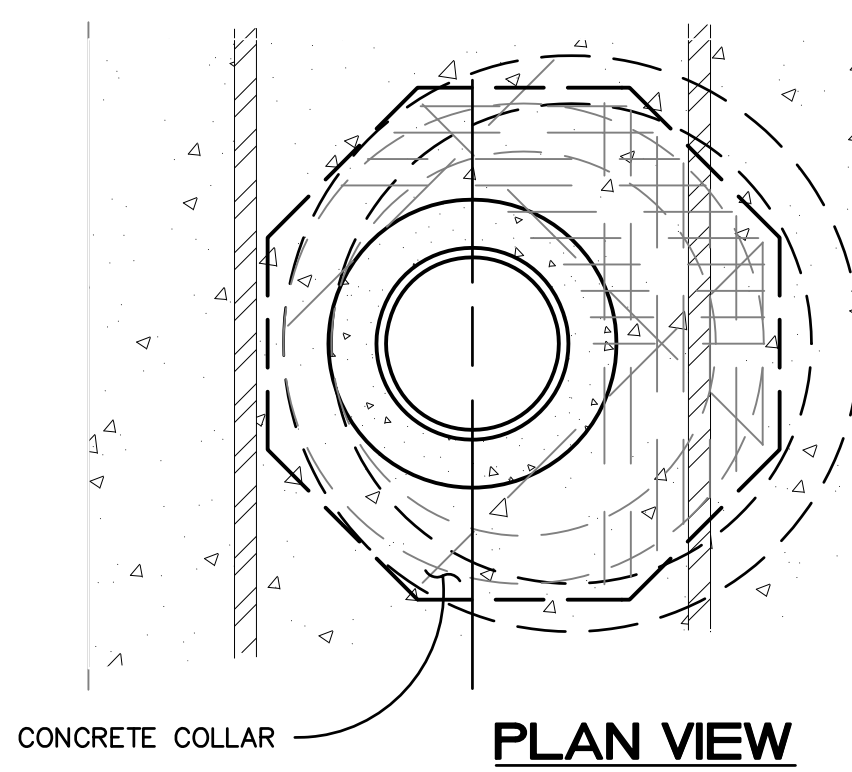
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		DRWN. BY M. MOLLENKOPF DSGN. BY L. LOHNER CHKD. BY A. BATT	REF. CU-SSG02 SCALE: PLAN NO. I-2008-035

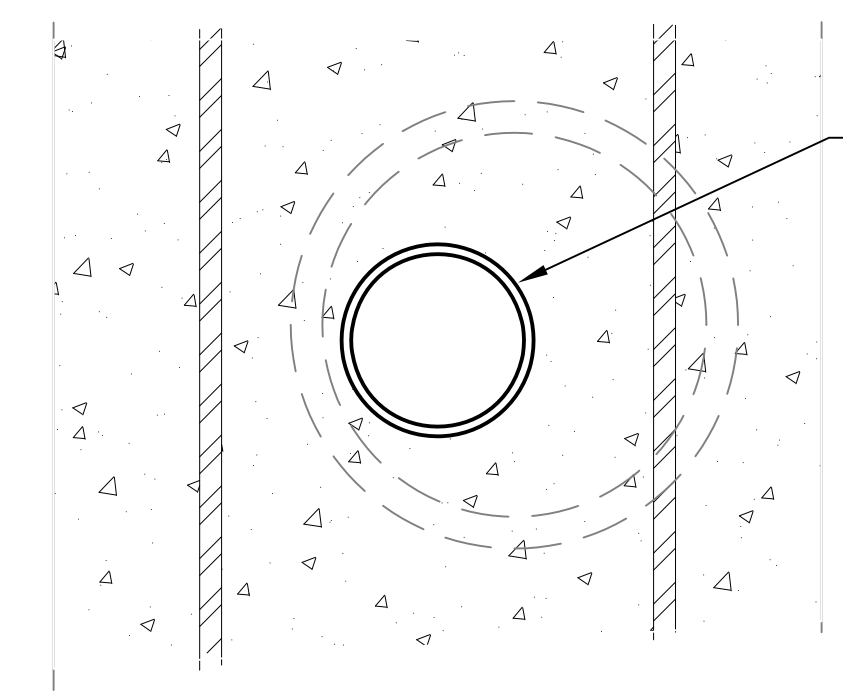
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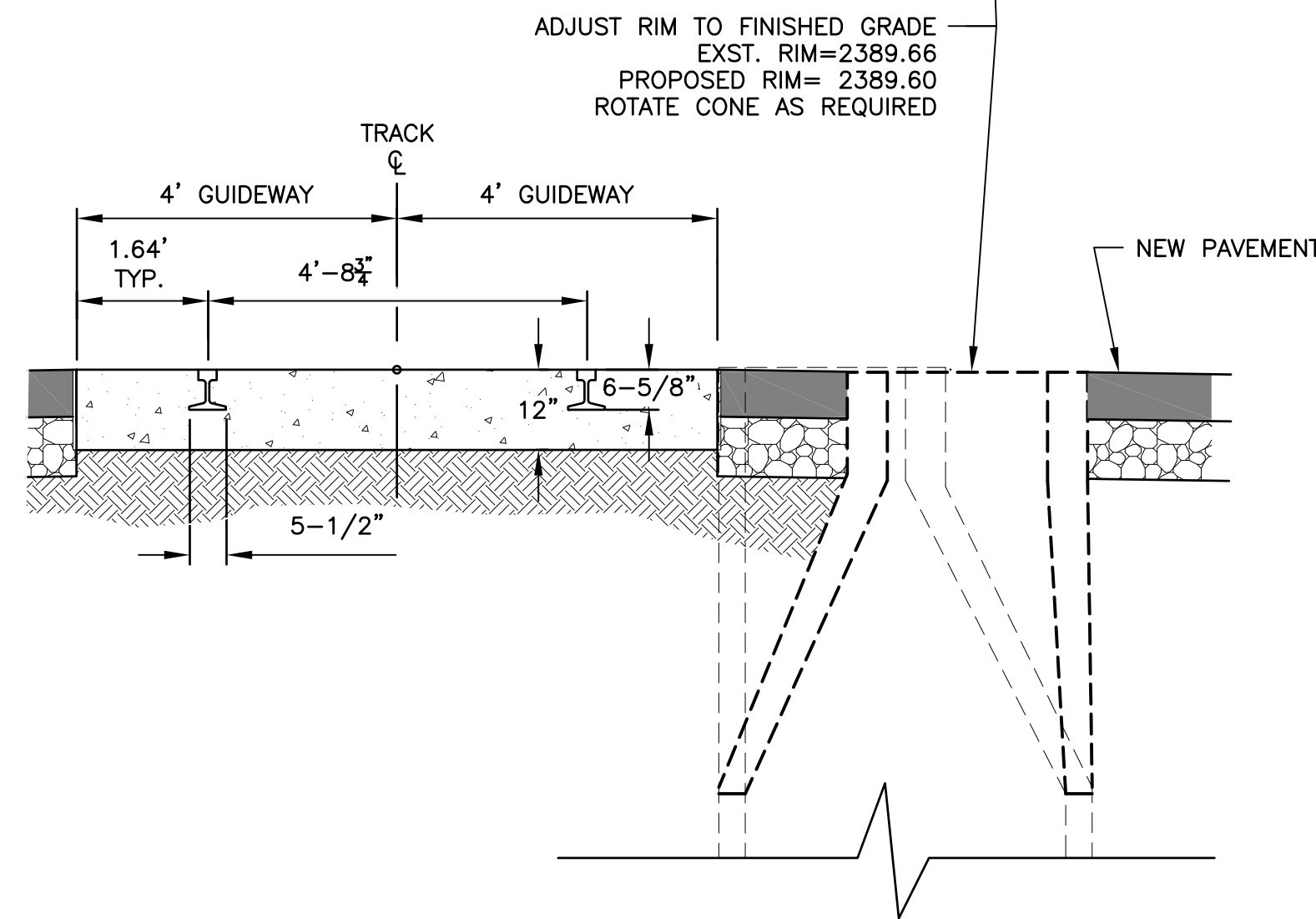
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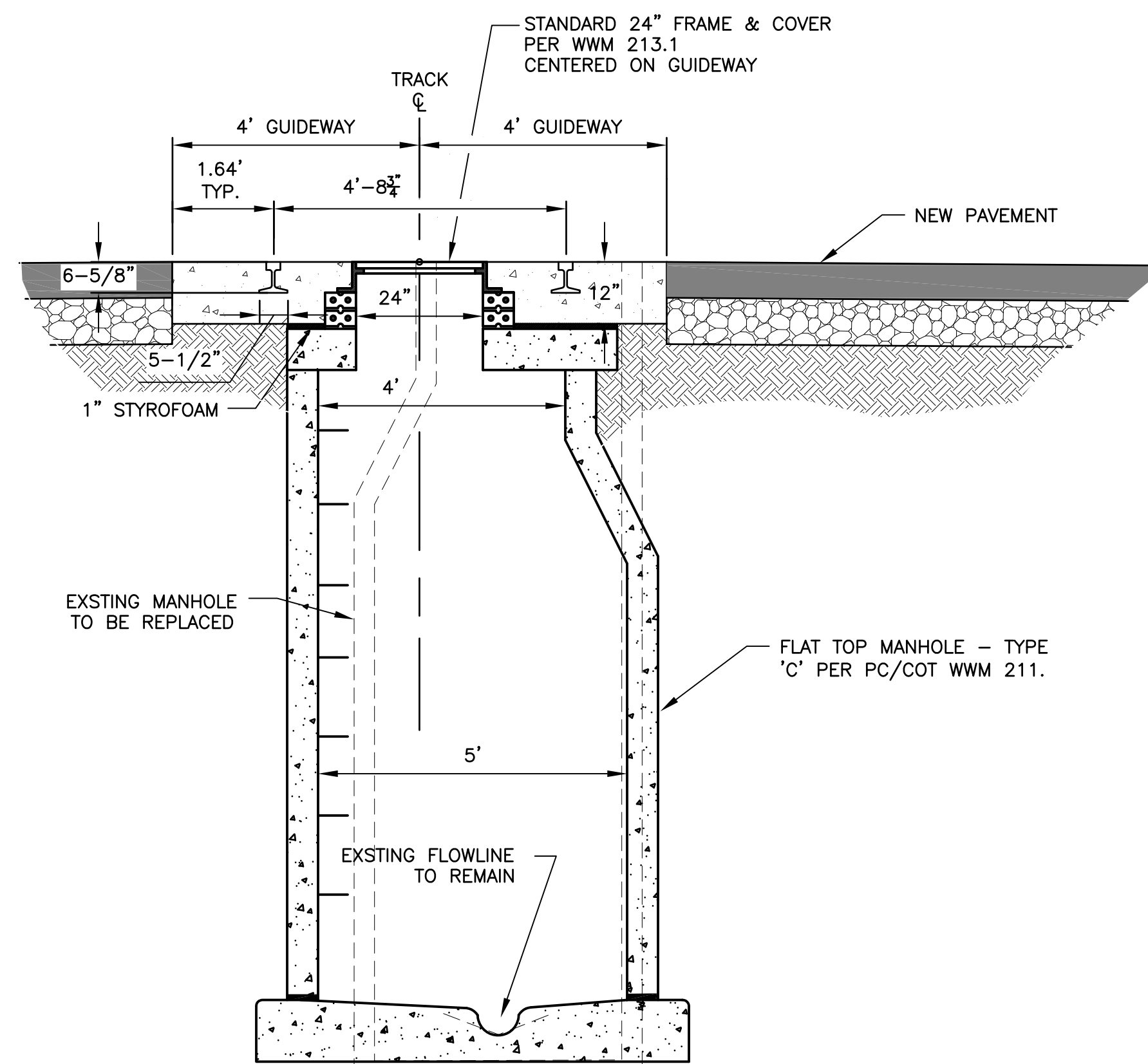
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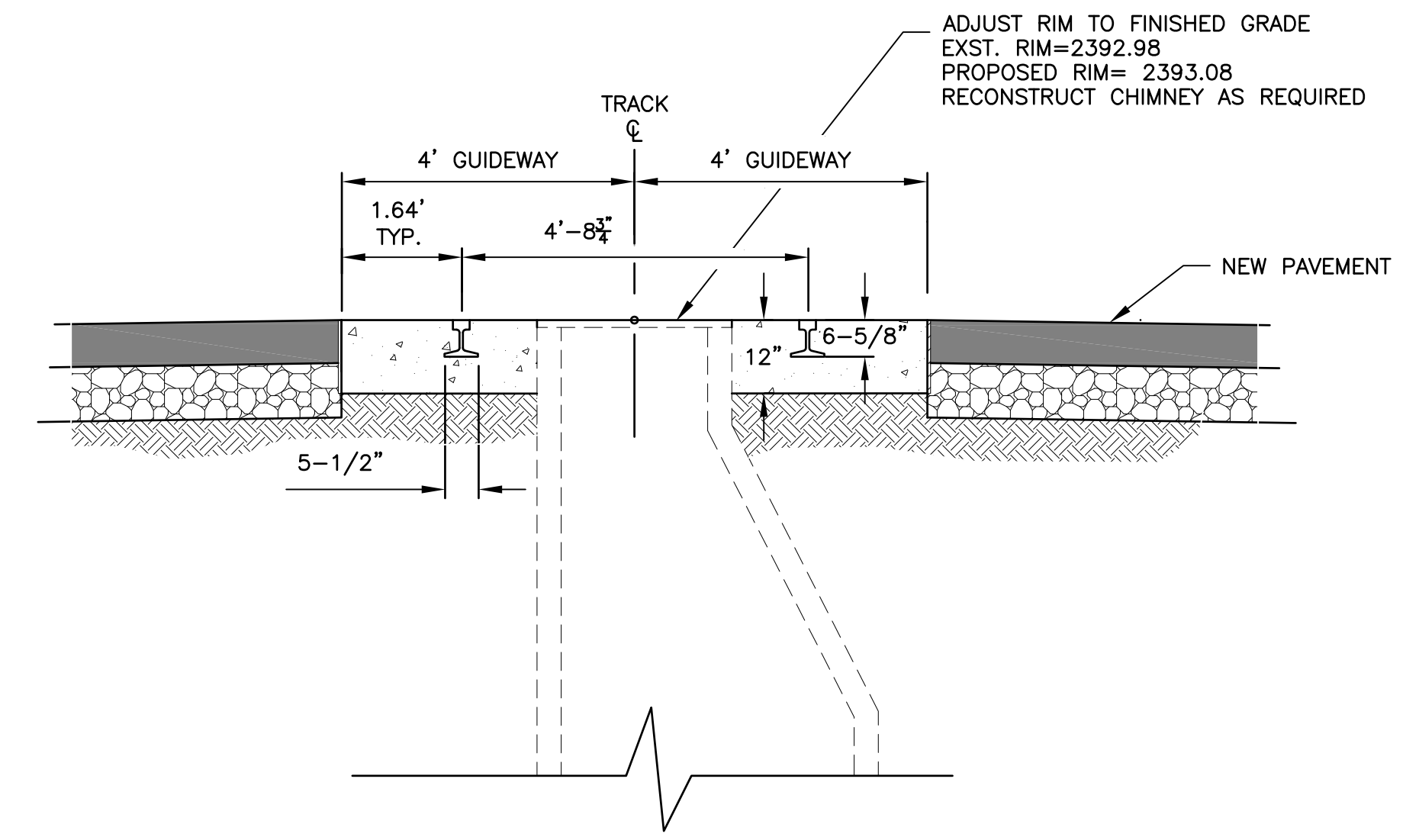
PLAN VIEW



1 EX MH #4839-03  
STA. 67+97.15 SCALE 1"=2'



2 NEW MH #4  
STA. 68+97.89 SCALE 1"=2'



3 EX MH #4839-03  
STA. 73+28.18 SCALE 1"=2'

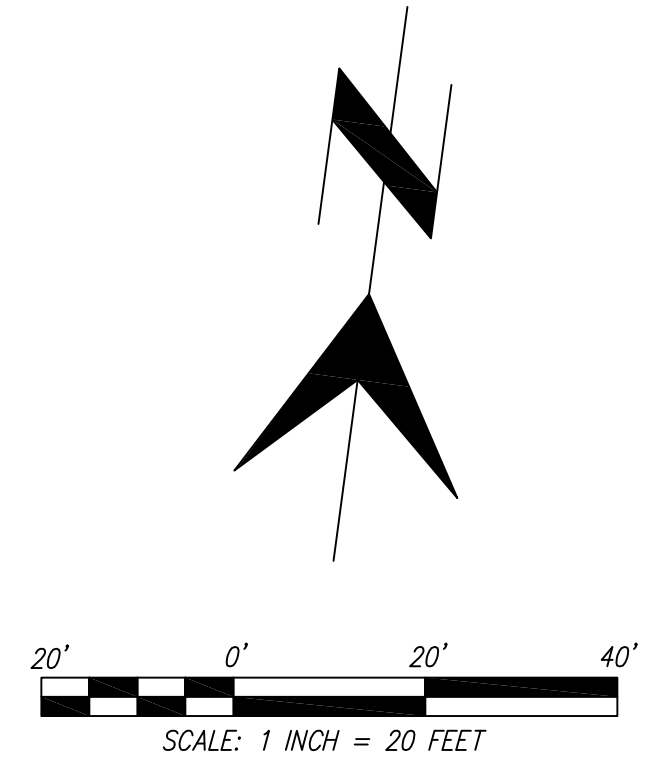
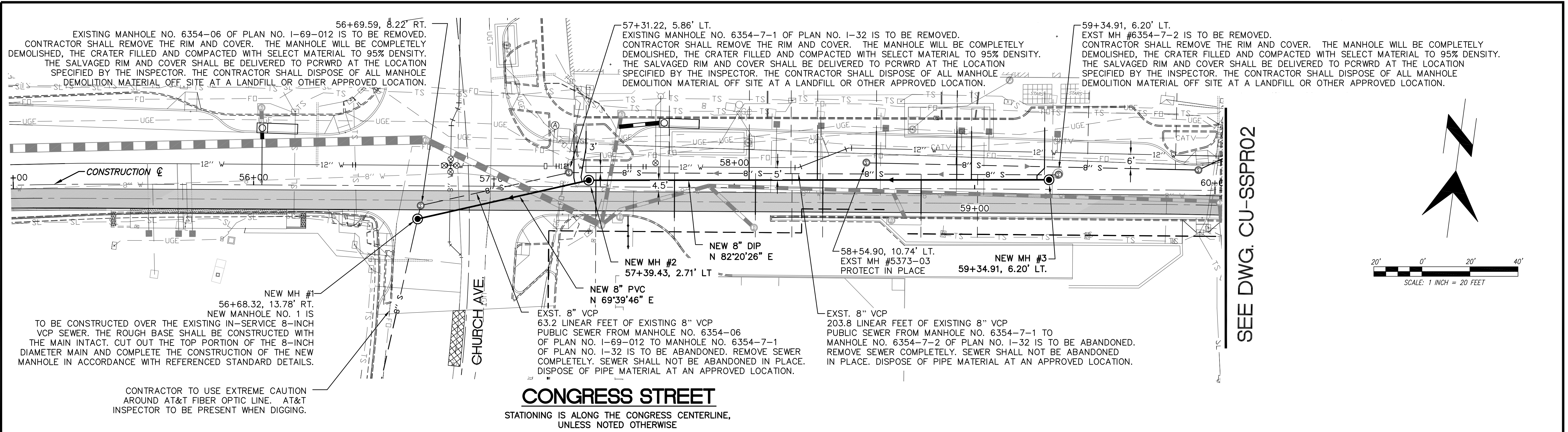
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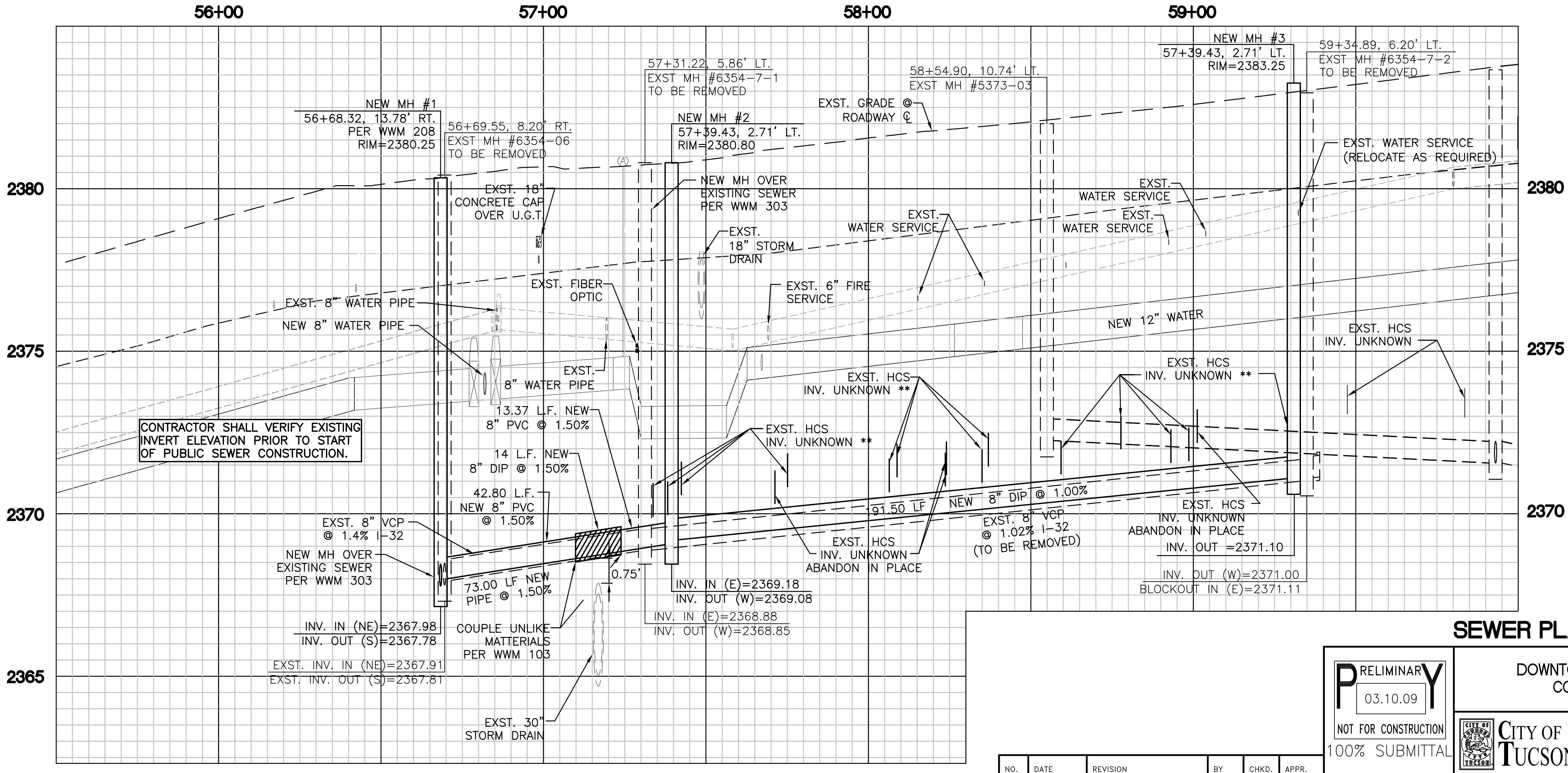
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<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		59 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY M. MOLLENKOPF DSGN. BY L. LOHNER CHKD. BY A. BATT	REF. CU-SSD101 SCALE: N.T.S. PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



SEE DWG. CU-SSPR02



\*\* EXISTING HCS TO BE REMOVED AND REPLACED AS NECESSARY NOT BEYOND R/W. CONNECT NEW HSC TO NEW SEWER LINE.

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BLUE STAKE CENTER CALL COLLECT

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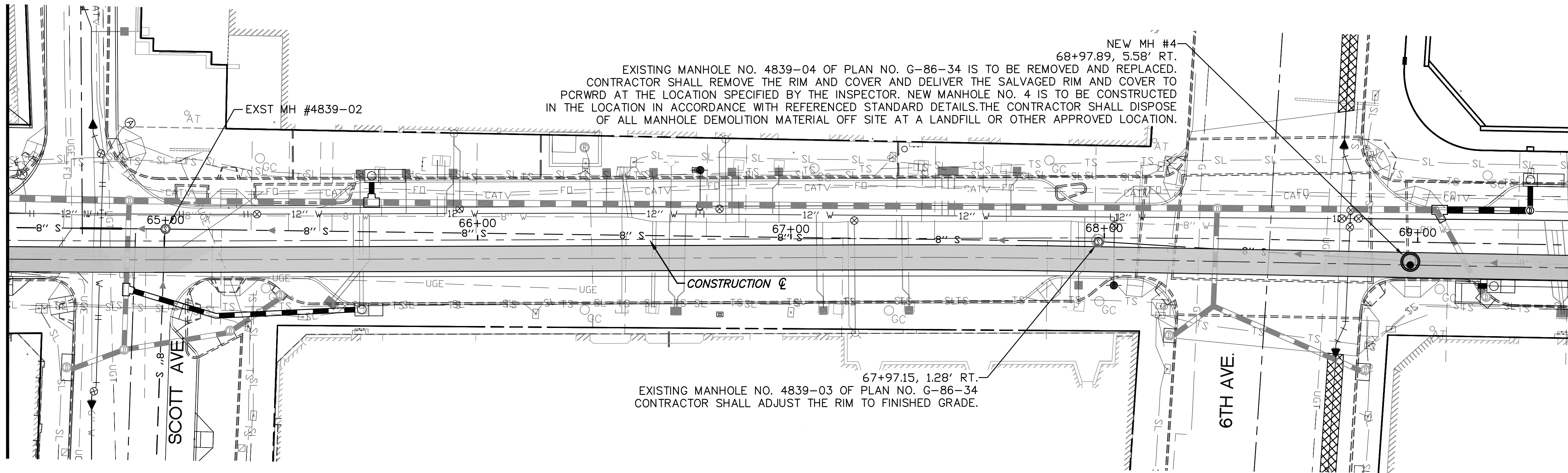
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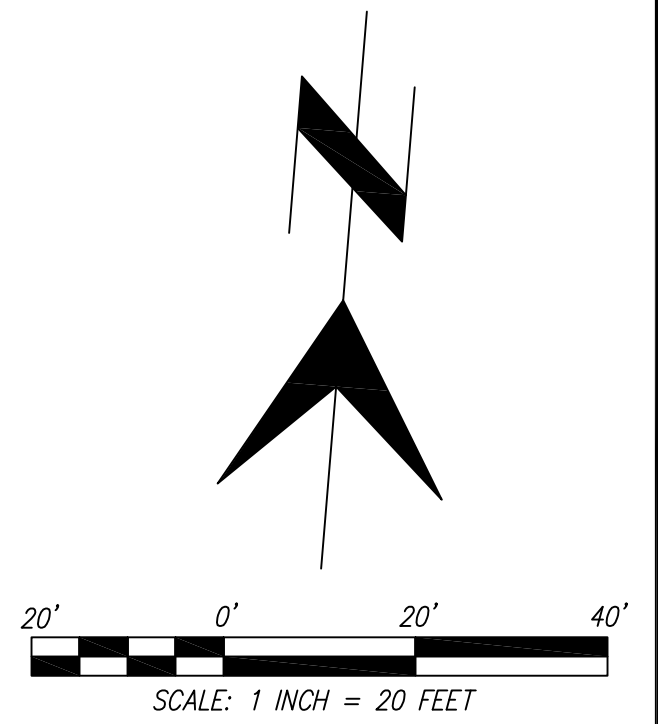
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PLAN NO. I-2008-035		

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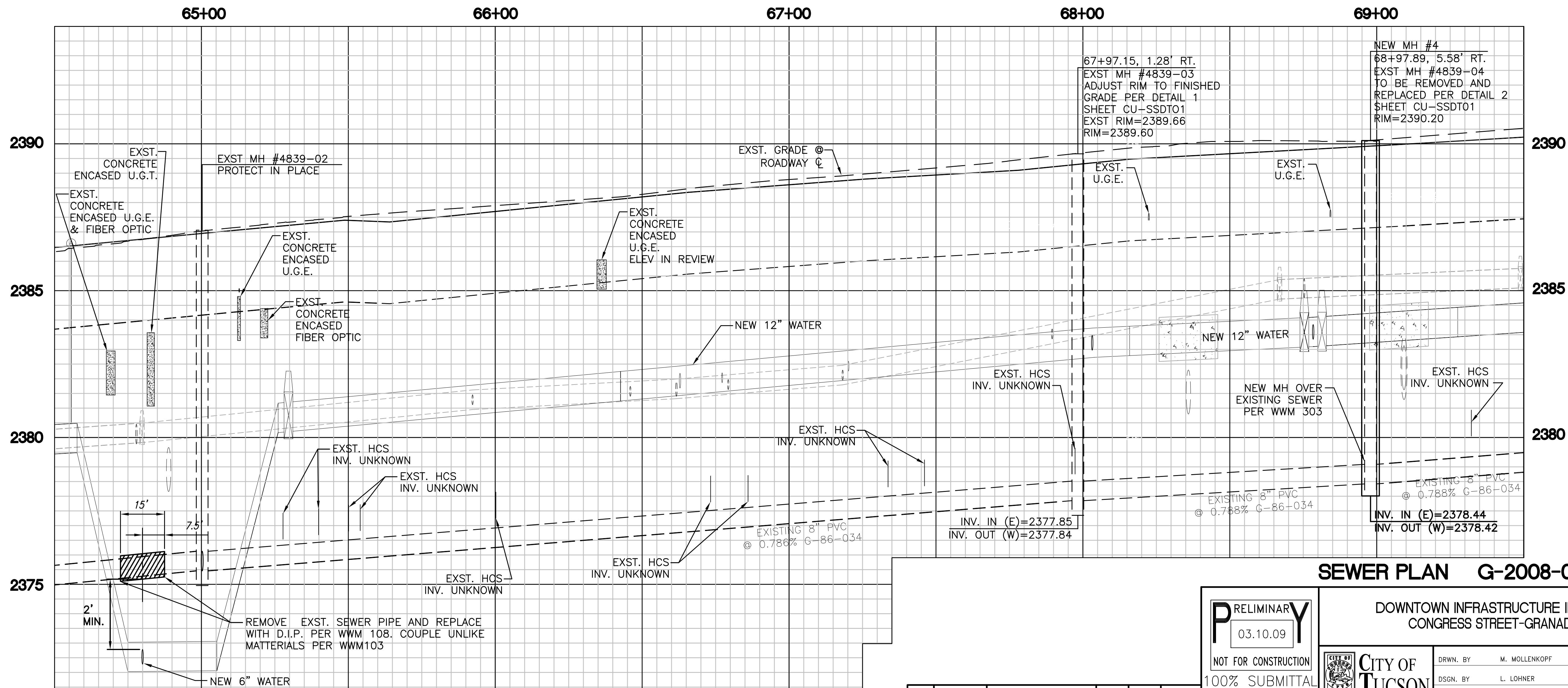


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**CONGRESS STREET**

STATIONING IS ALONG THE ROADWAY CENTERLINE,  
UNLESS NOTED OTHERWISE



**SEWER PLAN G-2008-091**

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
100% SUBMITTAL

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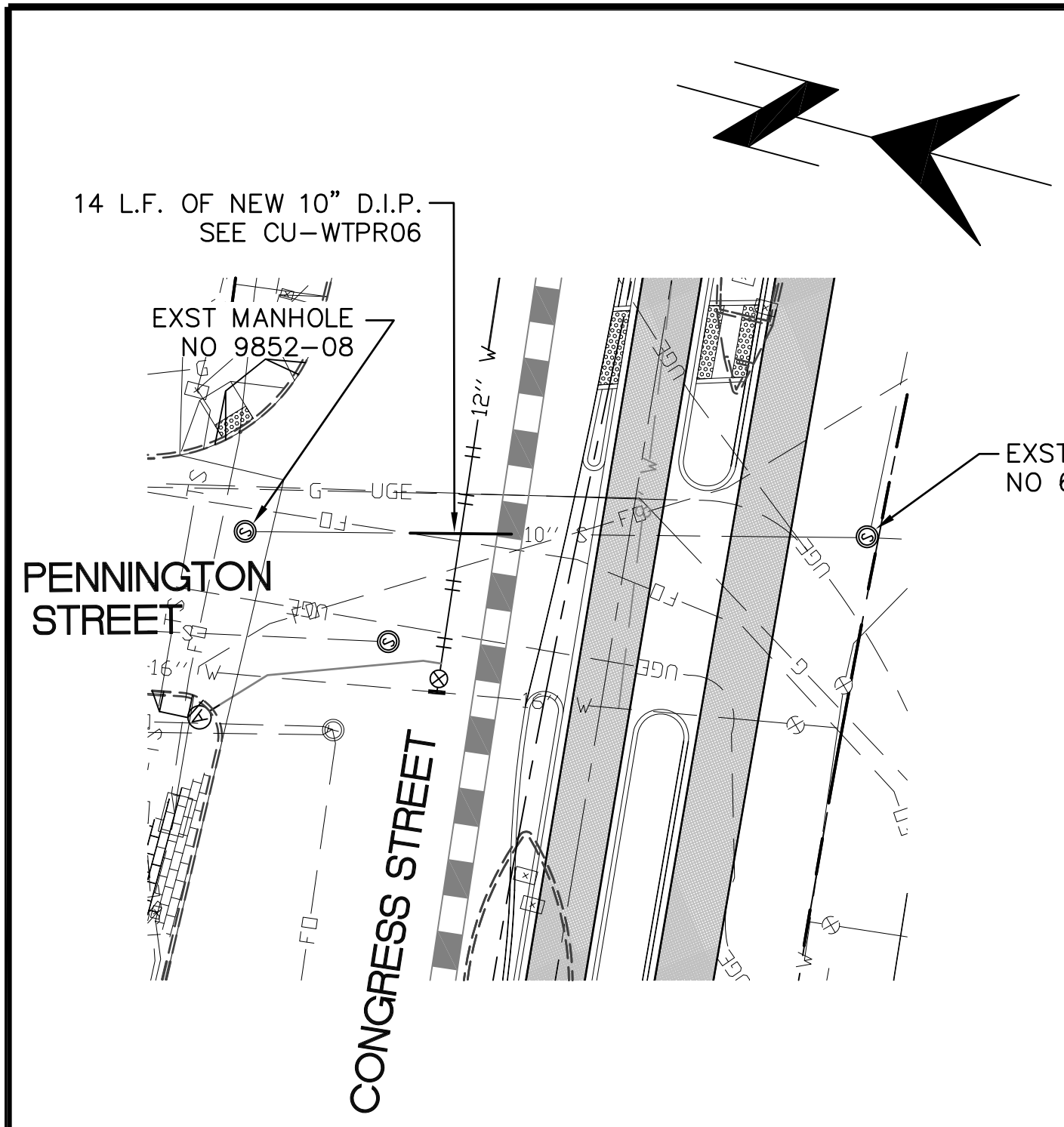
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184

	DRWN. BY	M. MOLLENKOPF	REF. CU-SSPR02 SCALE: H: 1"=20' V: 1"=2' PLAN NO. I-2008-035
	DSGN. BY	L. LOHNER	
	CHKD. BY	A. BATT	

NO.	DATE	REVISION	BY	CHKD.	APPR.

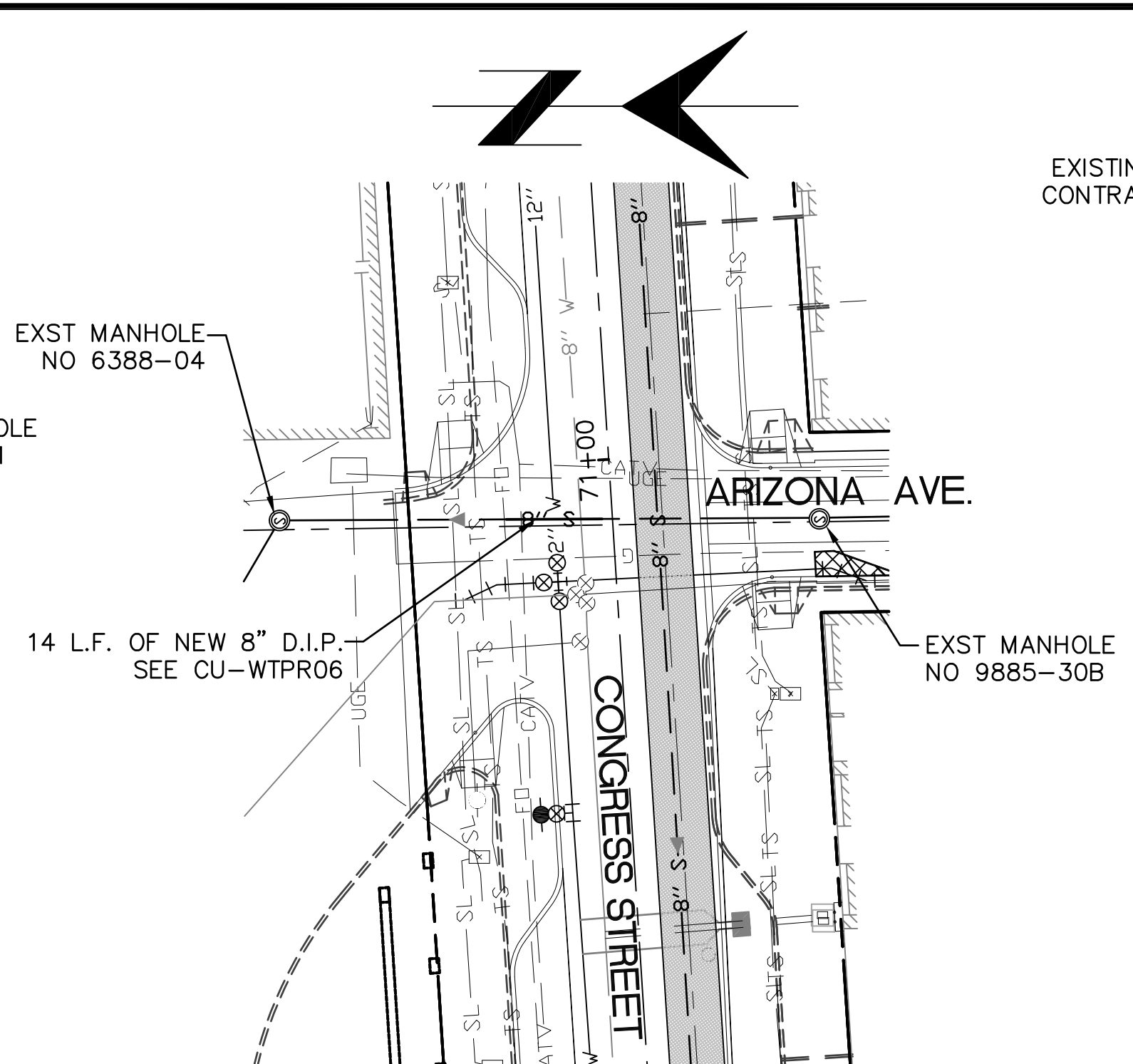
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 BLUE STAKE CENTER  
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 ADVANCE BY STANTEC CONSULTING AND  
 STANTEC CONSULTING SHALL HAVE NO  
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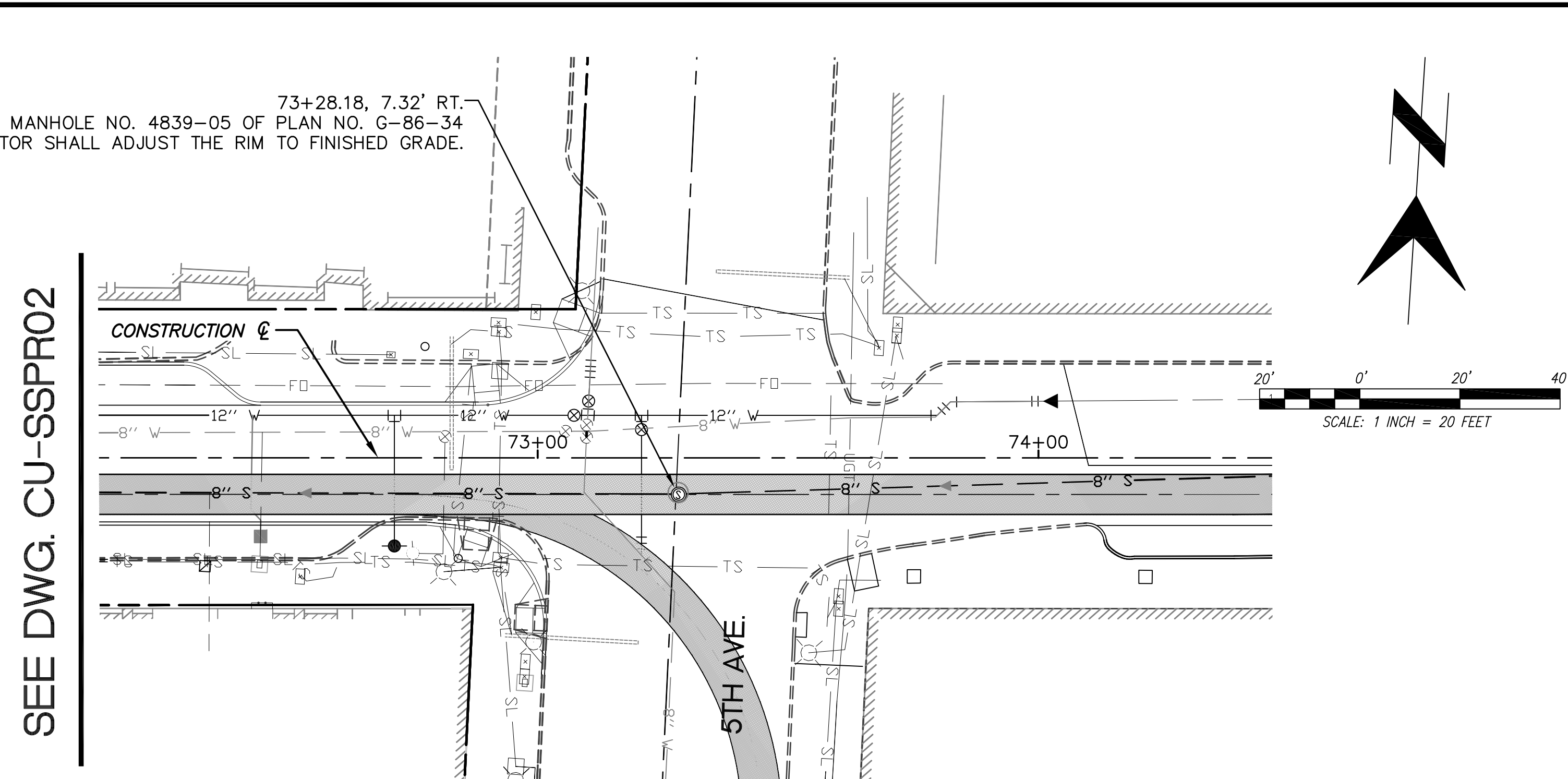
**PENNINGTON STREET**

STATIONING IS ALONG THE SEWER CENTERLINE, UNLESS NOTED OTHERWISE



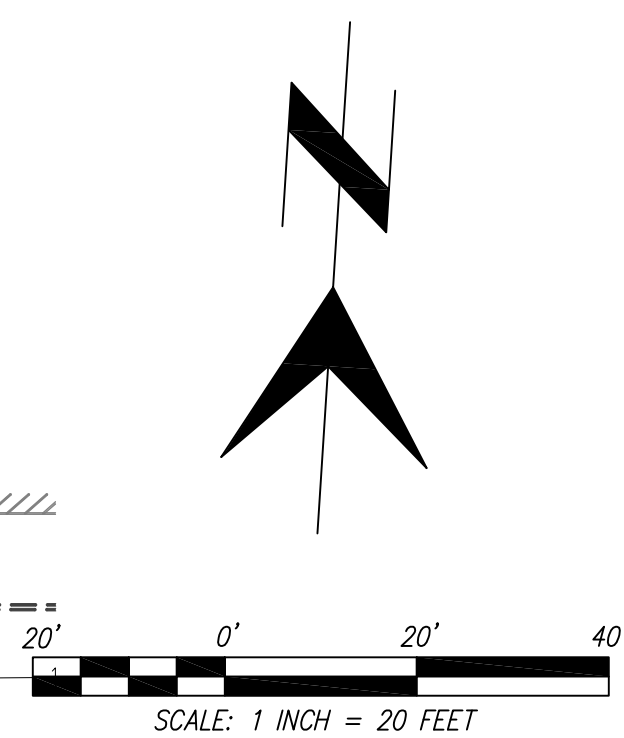
**ARIZONA AVENUE**

STATIONING IS ALONG THE SEWER CENTERLINE, UNLESS NOTED OTHERWISE

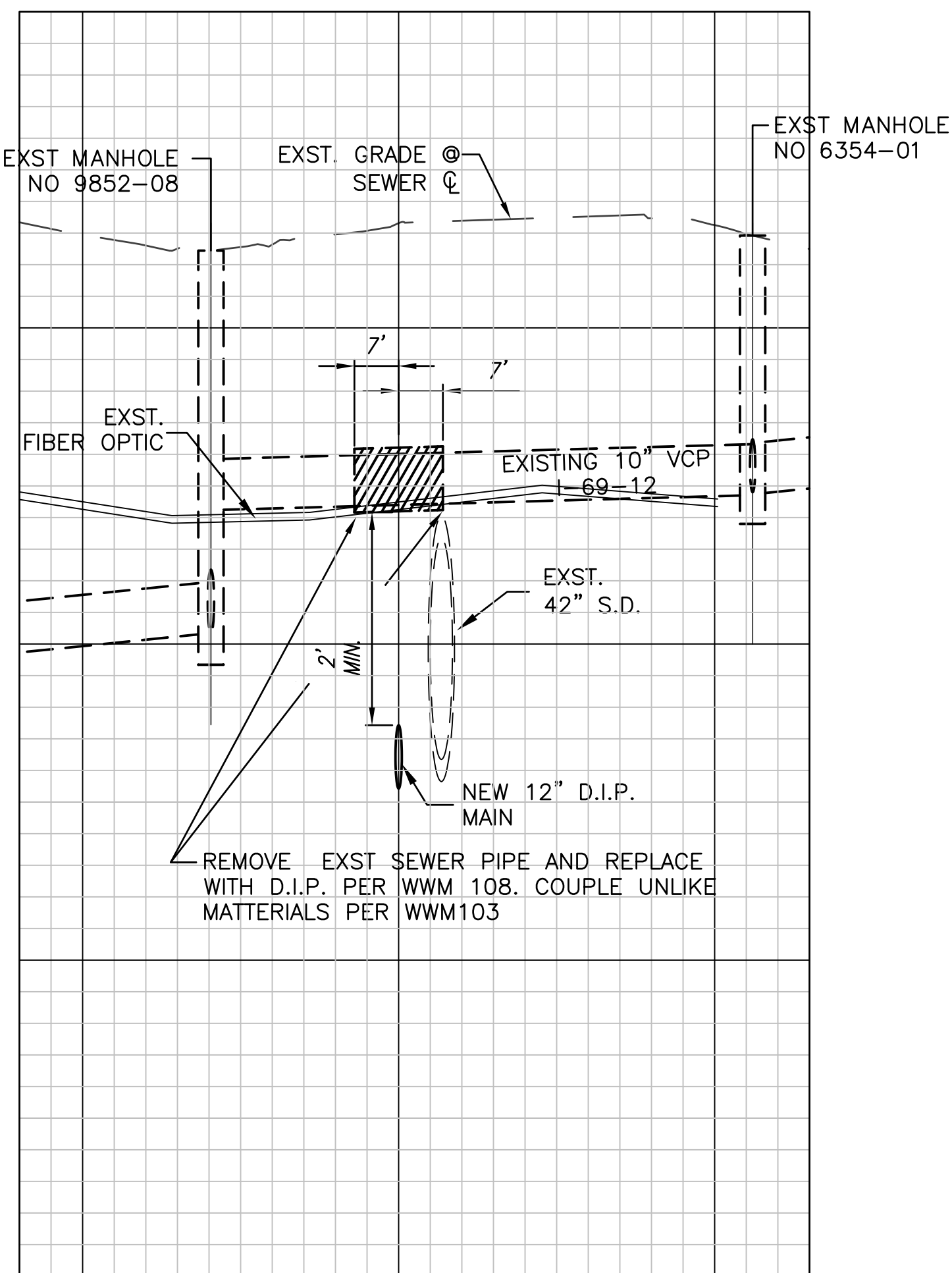


**CONGRESS STREET**

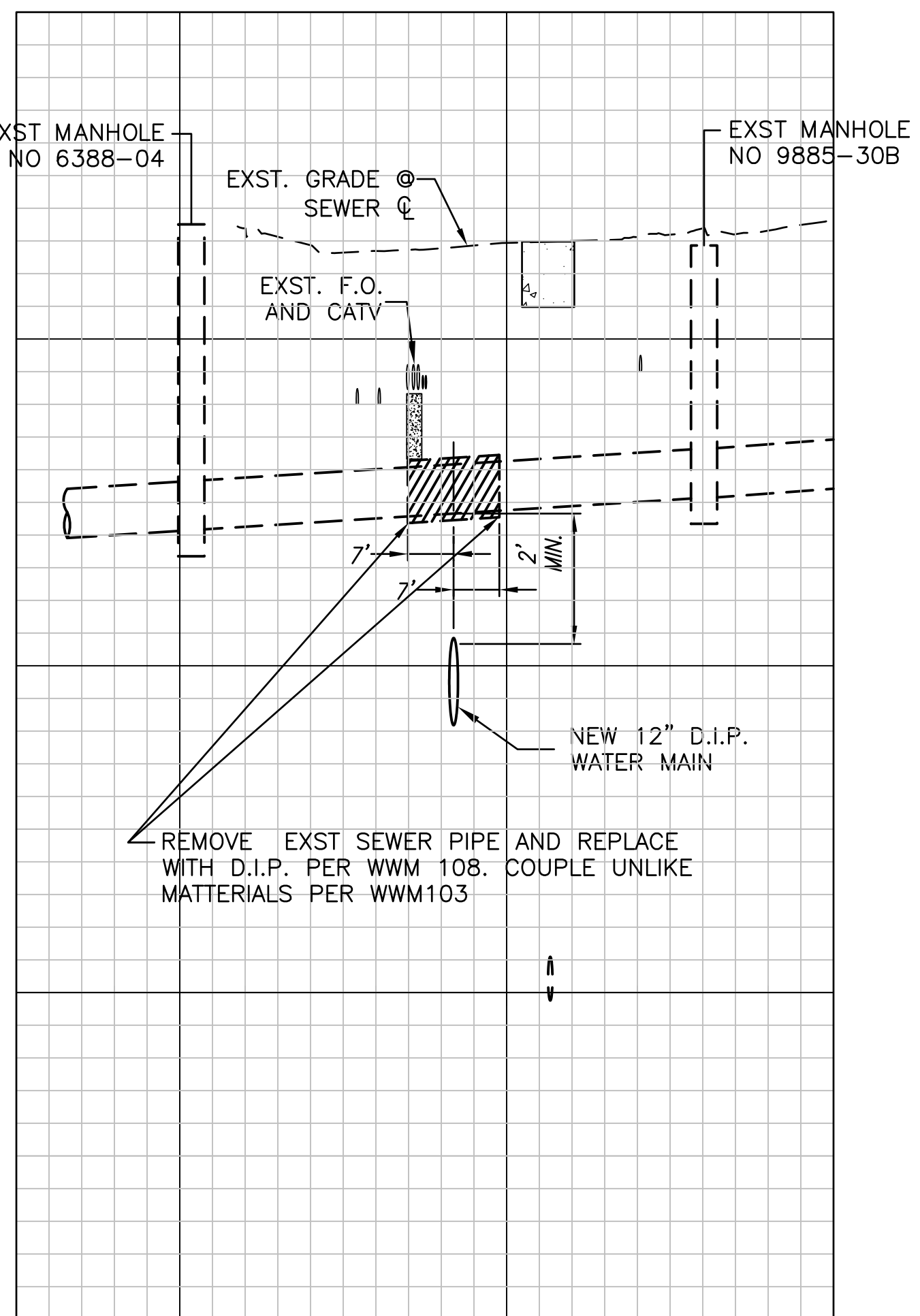
STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



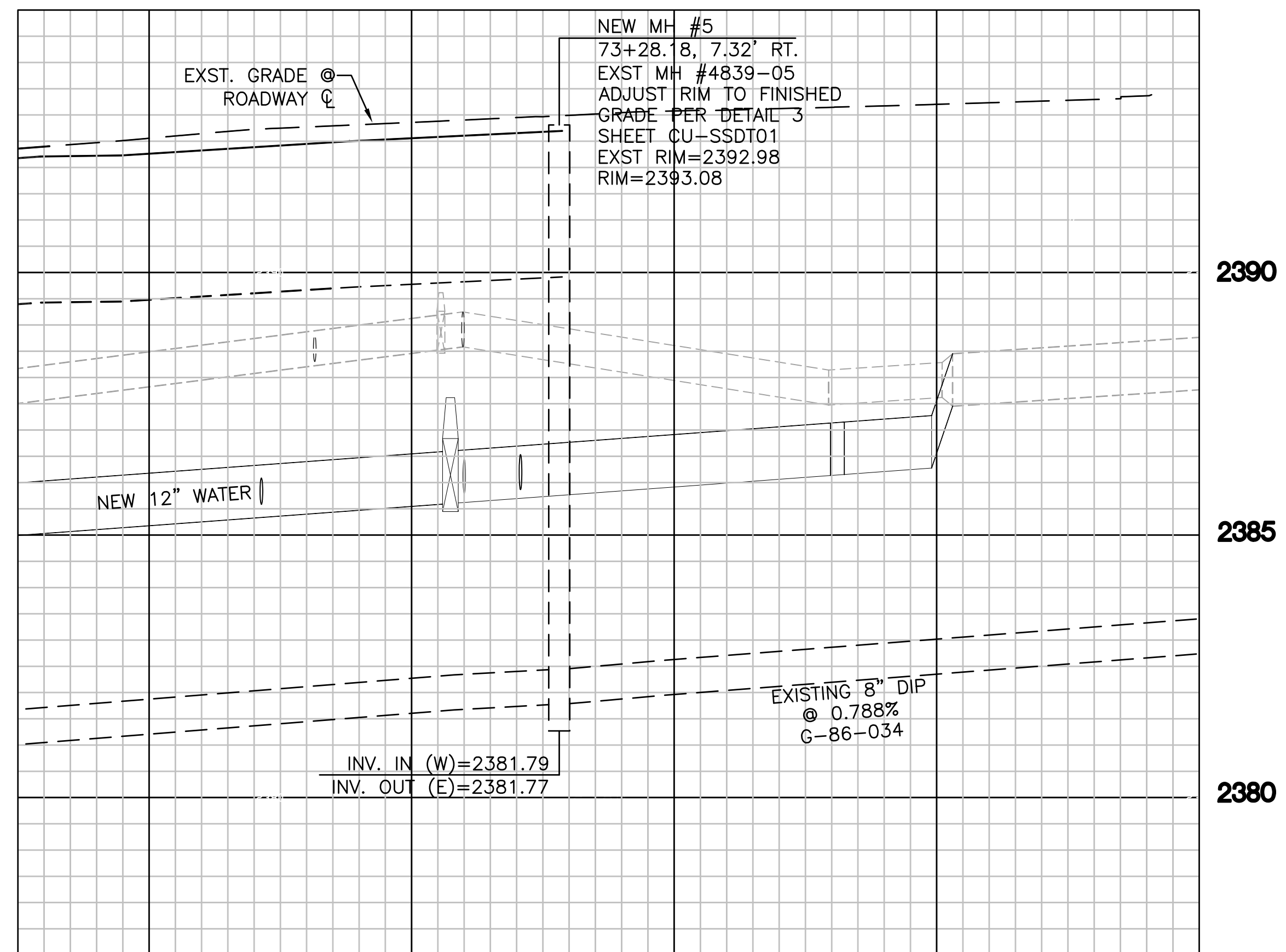
9+00 10+00 11+00



9+00 10+00 11+00



73+00 74+00

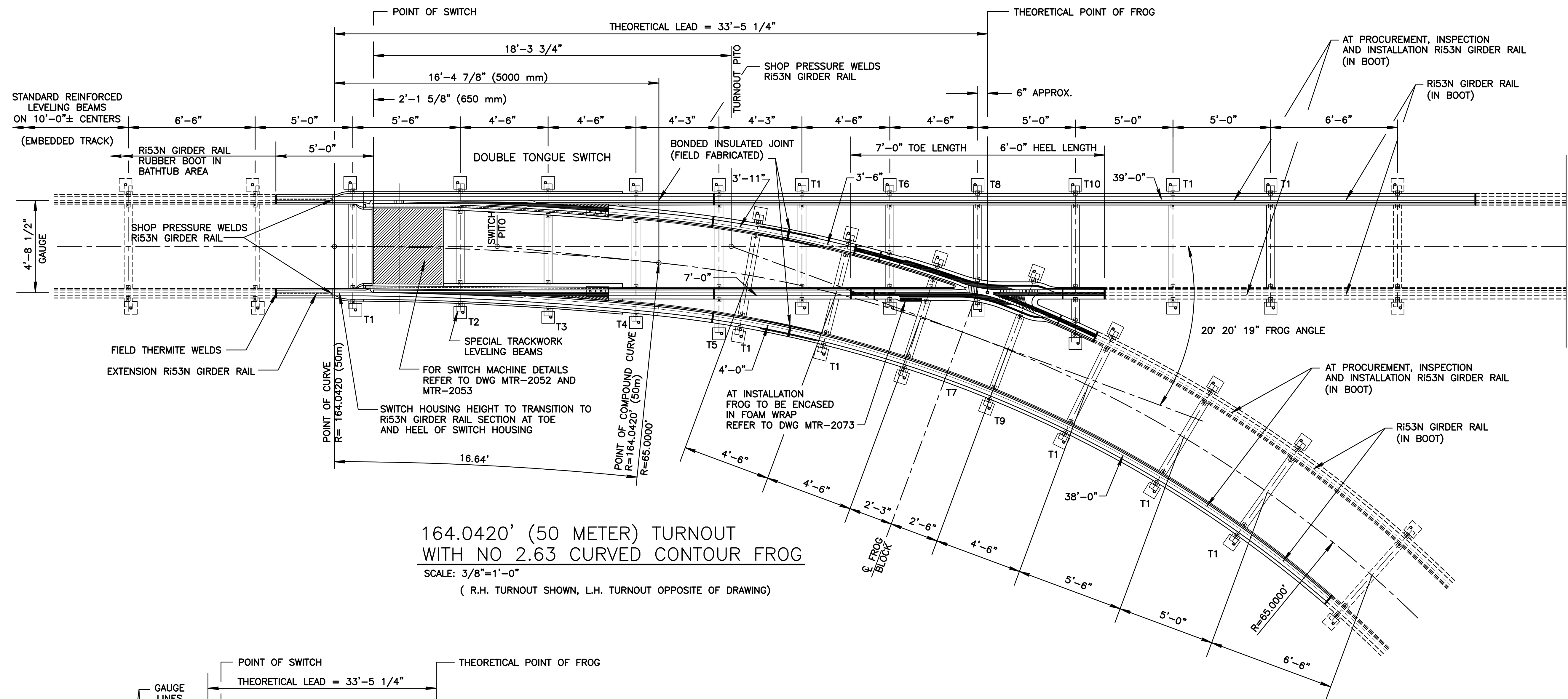


**SEWER PLAN G-2008-091**

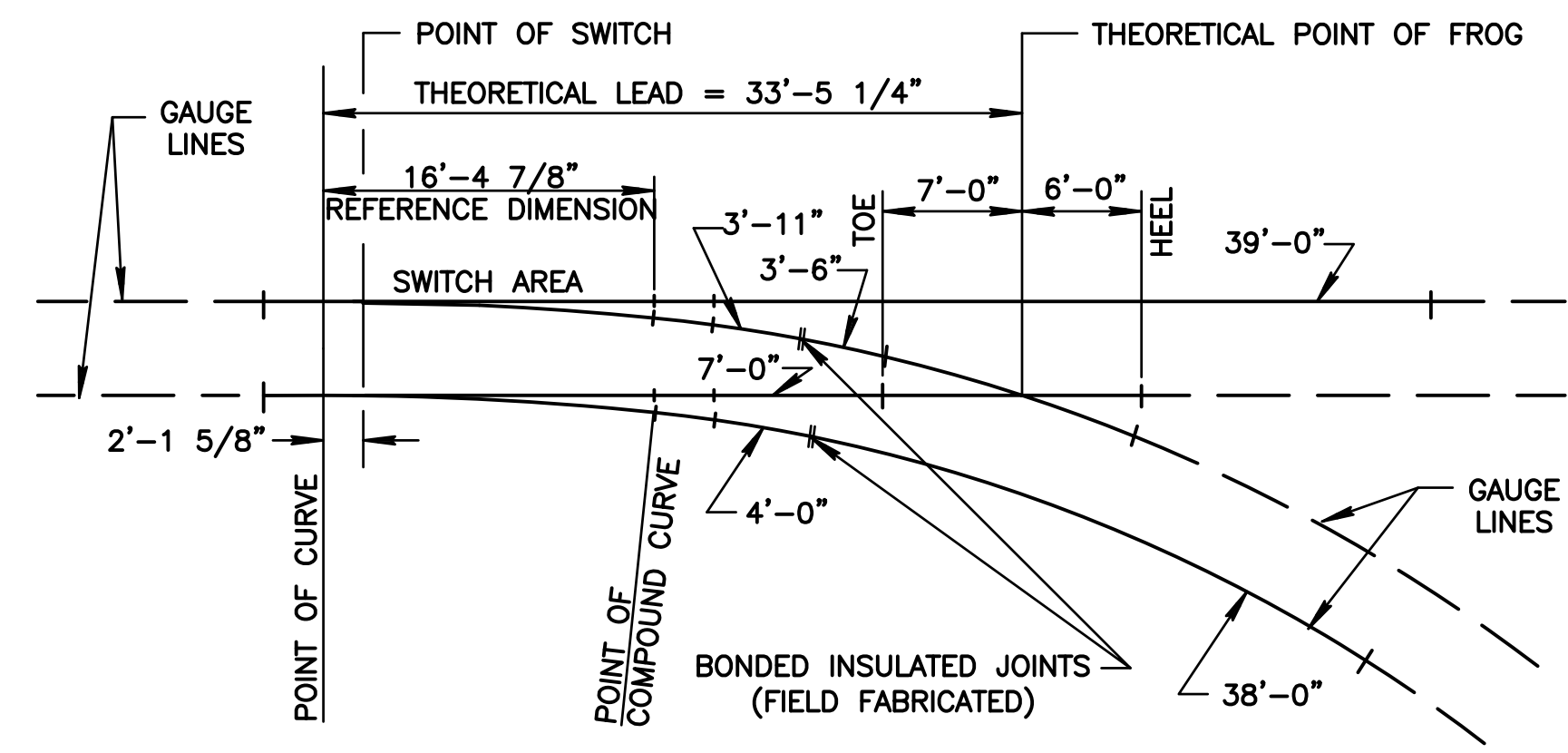
<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		62 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY M. MOLLENKOPF DSGN. BY L. LOHNER CHKD. BY A. BATT	REF. CU-SSPR03 SCALE: H: 1"=20' V: 1"=2' PLAN NO. I-2008-035

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 Mollen, Doug

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164.0420' (50 METER) TURNOUT  
 WITH NO 2.63 CURVED CONTOUR FROG  
 SCALE: 3/8"=1'-0"  
 ( R.H. TURNOUT SHOWN, L.H. TURNOUT OPPOSITE OF DRAWING)



RAIL LAYOUT DIAGRAM  
 SCALE: NONE

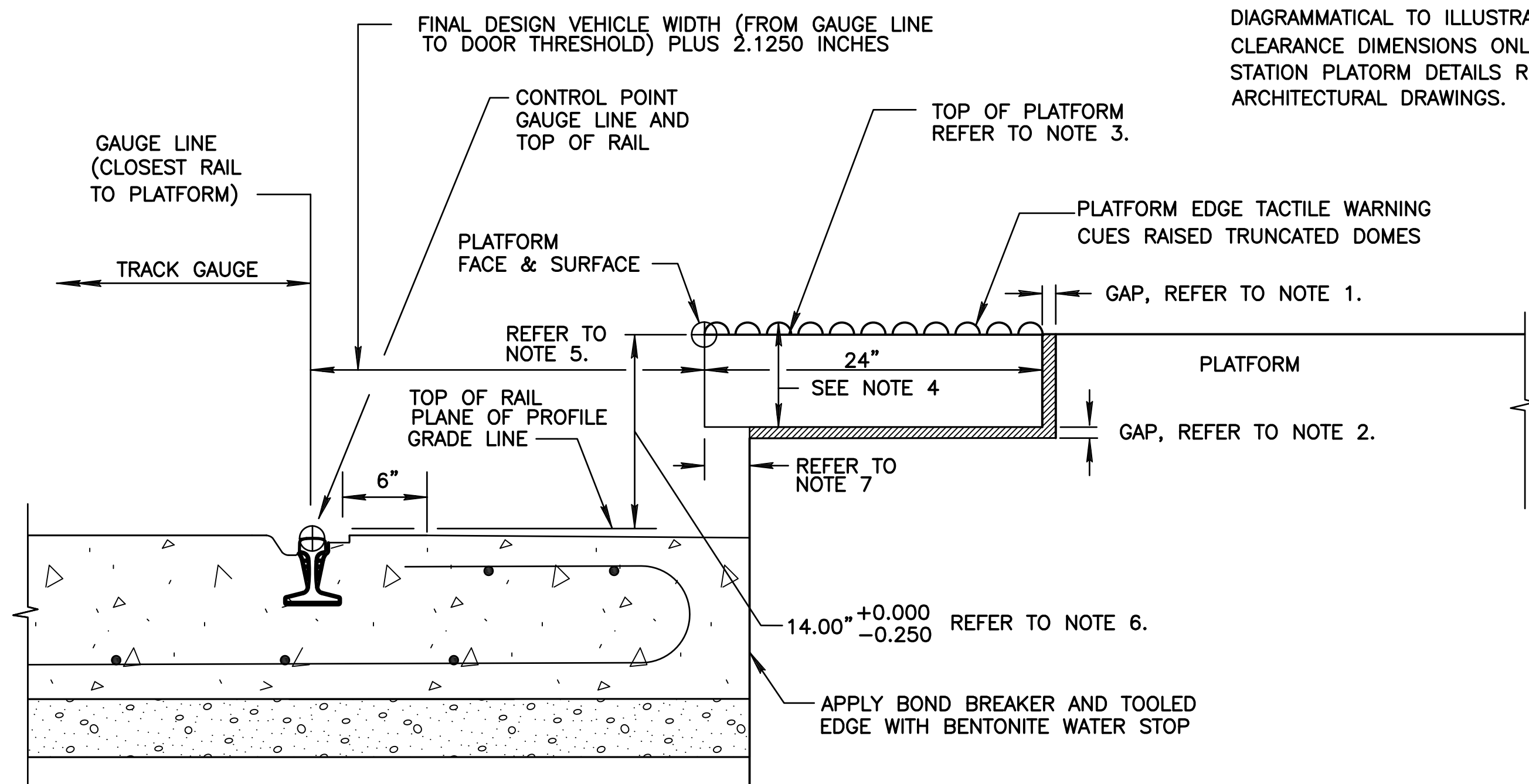
INSTALLATION NOTES:  
 I-1. FOR TYPICAL EMBEDDED CONSTRUCTION/ INSTALLATION  
 DETAILS REFER TO 100m TURNOUT DWG MTR-2064  
 OR MTR-2067.

50 METER EMBEDDED TURNOUT  
 W/ 20' 20' 19" CURVED CONTOUR FROG  
 R153N GIRDER RAIL

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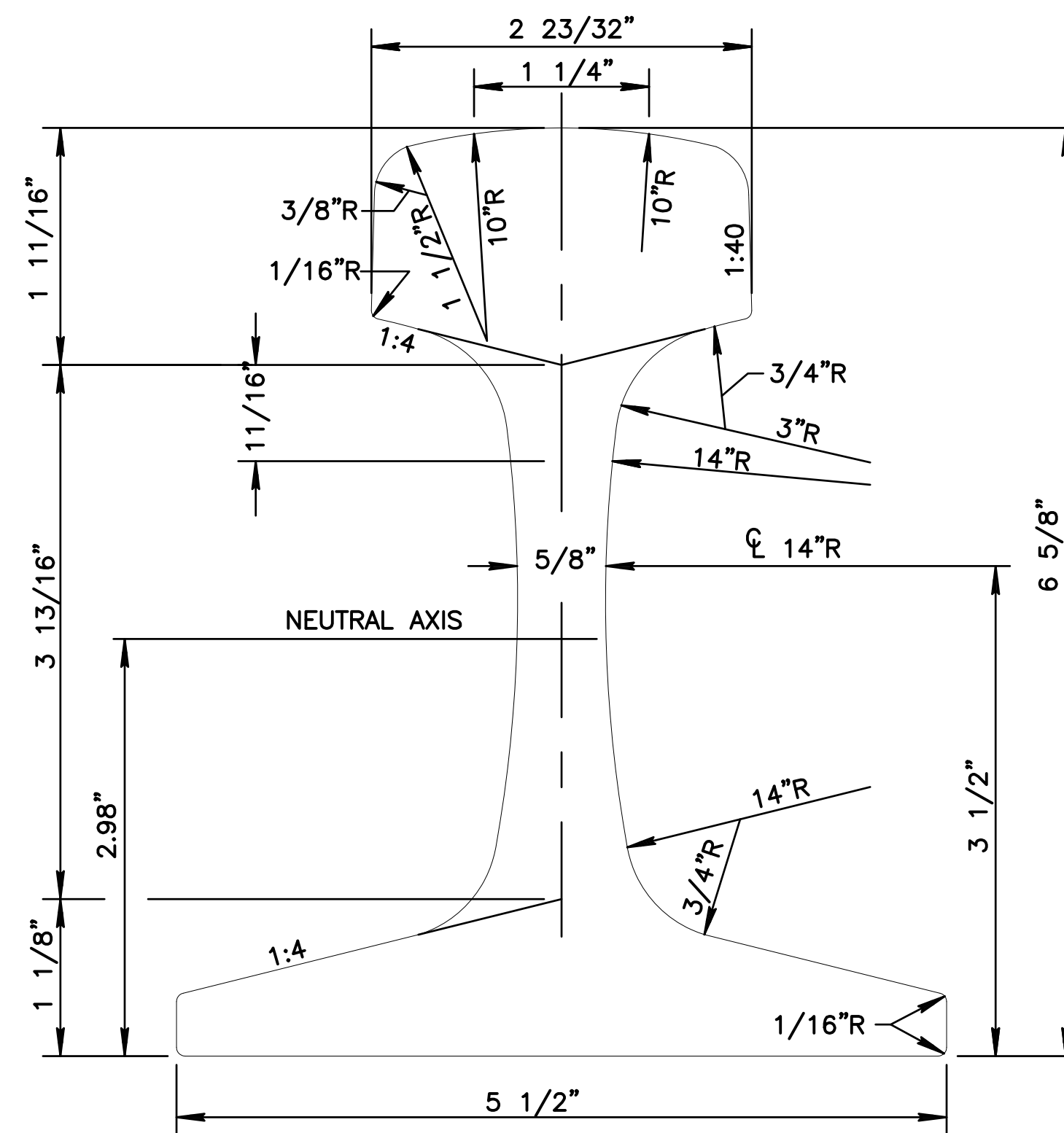
<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		63 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TRD101 SCALE: PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.



DESIGN COMMENT:  
 DETAILS OF STATION PLATFORM ARE DIAGRAMMATICAL TO ILLUSTRATE LOCATION AND CLEARANCE DIMENSIONS ONLY. FOR ACTUAL STATION PLATFORM DETAILS REFER TO ARCHITECTURAL DRAWINGS.

EMBEDDED TRACK SECTION AT STATION PLATFORM  
 SCALE: 1 1/2"=1'-0" RAIL TO PLATFORM GUIDELINES



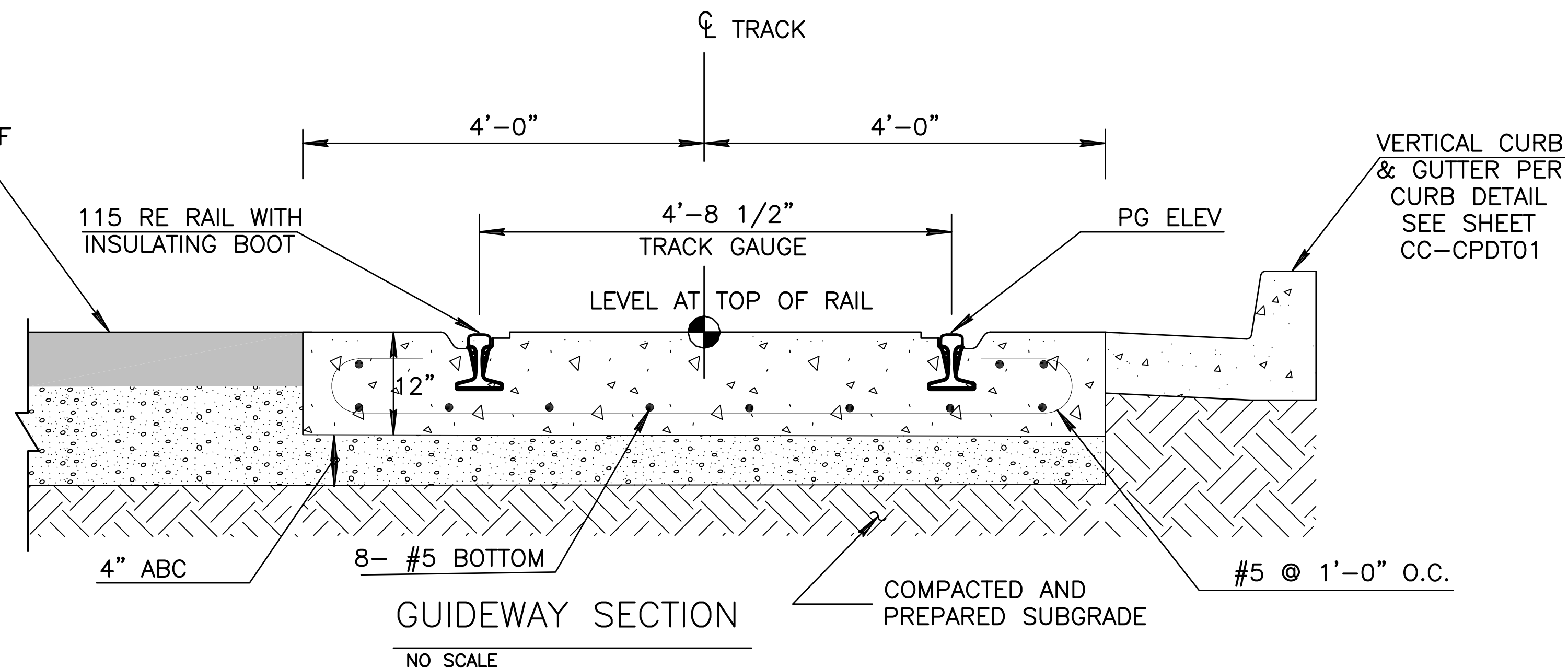
115 RE RAIL	
RAIL AREA (SQ. IN.)	
HEAD	4.03
WEB	2.80
BASE	4.42
WHOLE RAIL	11.25
RAIL WEIGHT (LBS/YD)	= 114.7
MOMENT OF INERTIA ABOUT THE HORIZONTAL	
NEUTRAL AXIS (IN <sup>4</sup> )	= 65.9
MOMENT OF INERTIA ABOUT THE VERTICAL	
NEUTRAL AXIS (IN <sup>4</sup> )	= 10.7

115 RE RAIL  
 (STANDARD IN BALLASTED TRACK)  
 SCALE: 1"=1"

NOTES:

- EDGE PAVERS TO BE INSTALLED AFTER TRACK IS BROUGHT TO ITS FINAL ELEVATION AND ALIGNMENT. CONSTRUCTION GAP MINIMUM DIMENSION SHALL BE OF SUFFICIENT WIDTH TO ALLOW INSTALLATION CONTRACTOR TO ESTABLISH REQUIRED DISTANCE FROM GAUGE LINE TO PLATFORM FACE WITHIN STATED HORIZONTAL TOLERANCE.
- CONSTRUCTION GAP MINIMUM DIMENSION SHALL BE OF SUFFICIENT HEIGHT TO ALLOW INSTALLATION CONTRACTOR TO ESTABLISH REQUIRED DISTANCE FROM TOP OF RAIL TO PLATFORM SURFACE WITHIN STATED VERTICAL TOLERANCE.
- FOR THE ENTIRE LONGITUDINAL LENGTH OF PLATFORM, THE SURFACE DEVIATION SHALL HAVE A TOLERANCE OF 1/8 INCH IN 20 FEET AND MUST BE CONSTRUCTED WITHIN THE STATED CRITICAL VERTICAL (TOP OF RAIL TO PLATFORM SURFACE) TOLERATED LIMITS.
- DIMENSION TO BE DETERMINED BY CONTRACTOR TO MEET REQUIREMENTS FOR RAISED TRUNCATED DOMES.
- THE GAUGE LINE ALIGNMENT OF THE CLOSEST RAIL TO THE PLATFORM SHALL MAINTAIN A SPECIFIC HORIZONTAL RELATIONSHIP TO THE PLATFORM FACE WITHIN THE STATED HORIZONTAL CLEARANCE THROUGHOUT THE LENGTH OF THE STATION PLATFORM.
- THE TOP OF RAIL ALIGNMENT SHALL MAINTAIN A SPECIFIC VERTICAL RELATIONSHIP TO THE PLATFORM SURFACE WITHIN THE STATED VERTICAL CLEARANCE THROUGHOUT THE LENGTH OF THE STATION PLATFORM.
- PLATFORM EDGE OVERHANG SHALL BE OF SUFFICIENT LENGTH TO ALLOW INSTALLATION CONTRACTOR TO MEET THE REQUIREMENTS OF NOTE 1 AND A PLATFORM VEHICLE CLEARANCE, AT DOORS, OF 2.1250 INCHES WITH VEHICLE IN NORMAL STATIC POSITION.
- EXISTING UTILITIES SHOWN ON PLANS ARE BASED ON BEST AVAILABLE INFORMATION - PER BLUE STAKE LAW, PRIOR TO ANY EXCAVATION CONTRACTOR TO FIELD VERIFY ELEVATION, SIZE AND LOCATION OF EXISTING UTILITIES.

ADJACENT ROADWAY SURFACE AT TOP OF RAIL ELEVATION



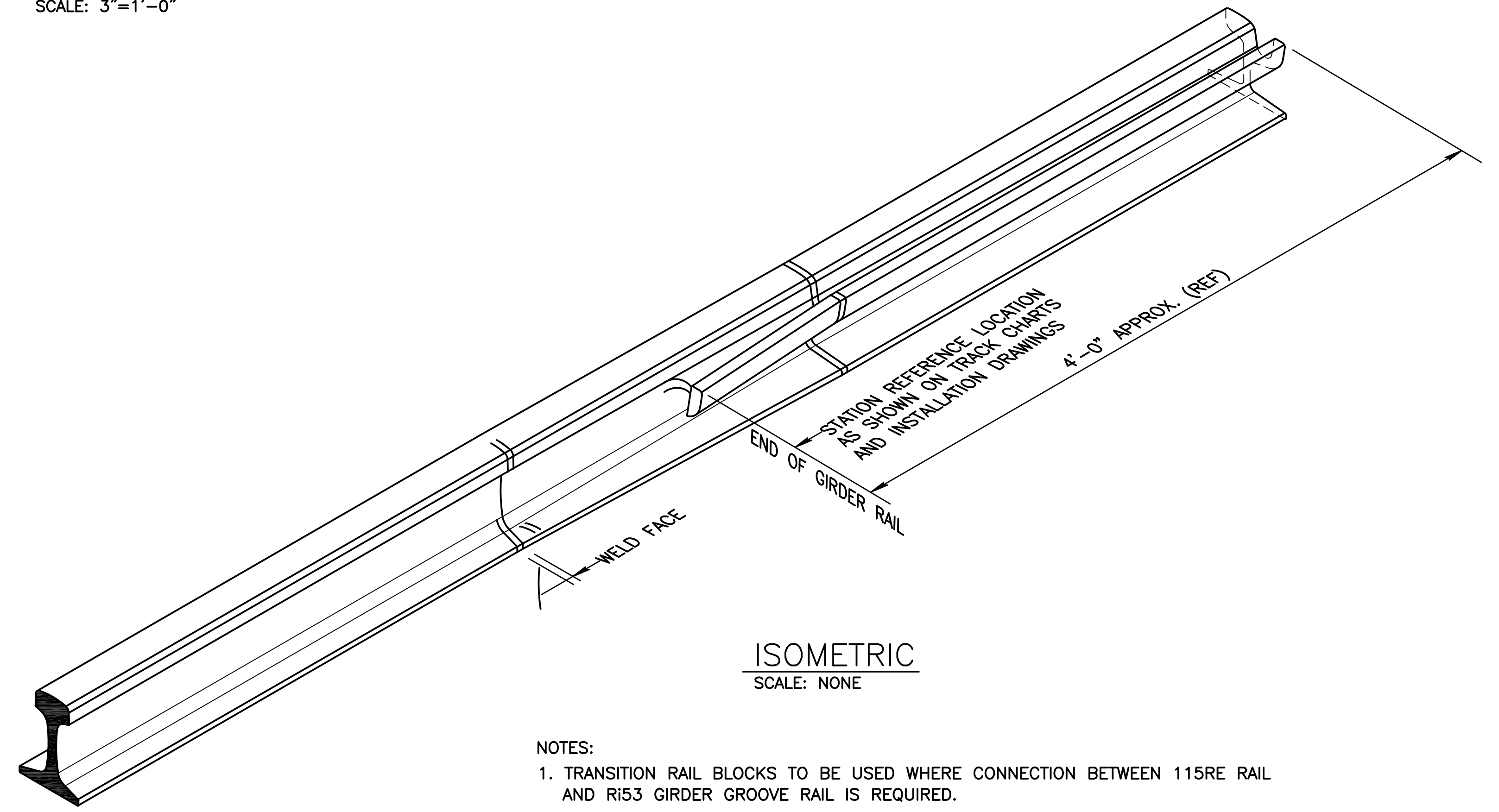
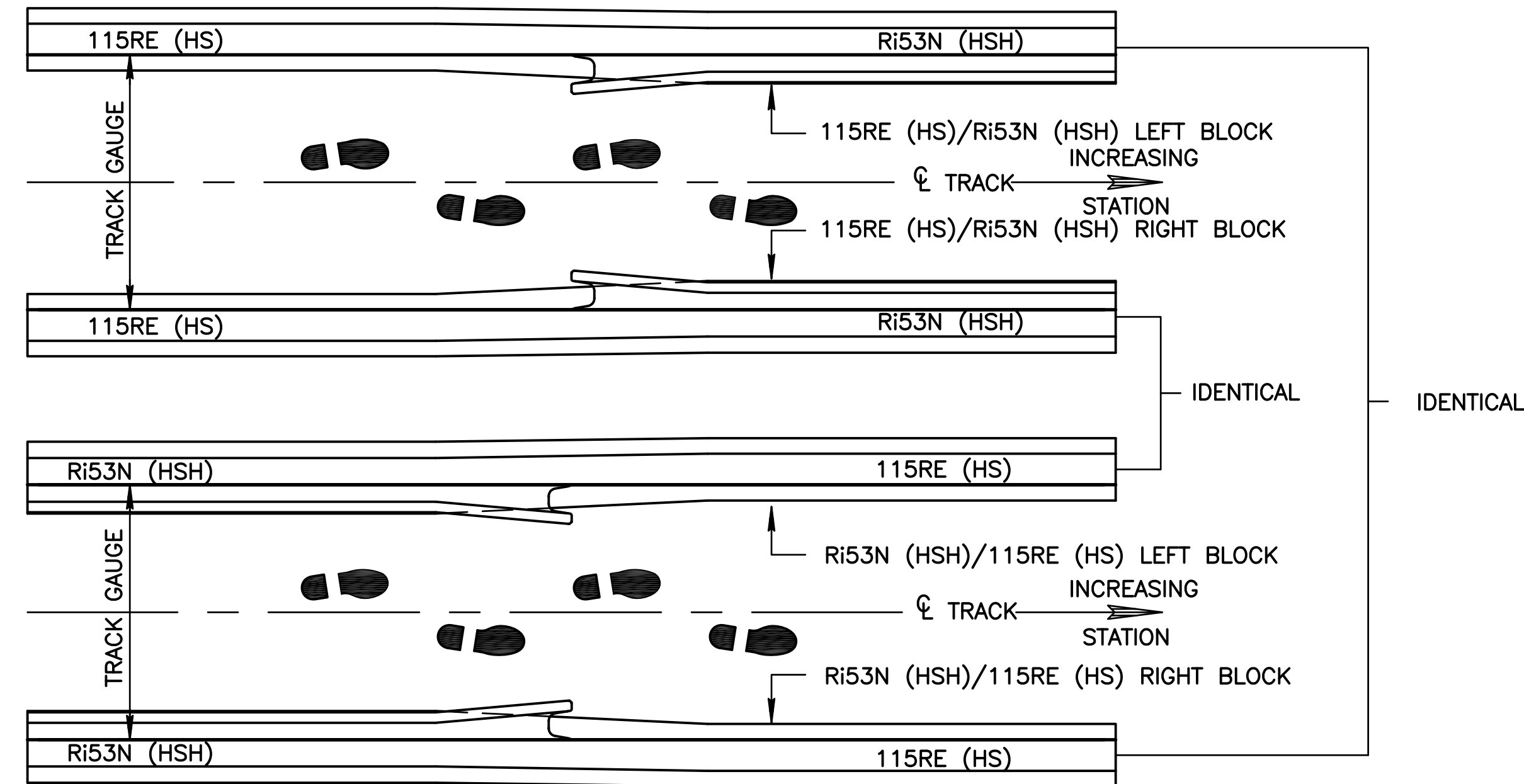
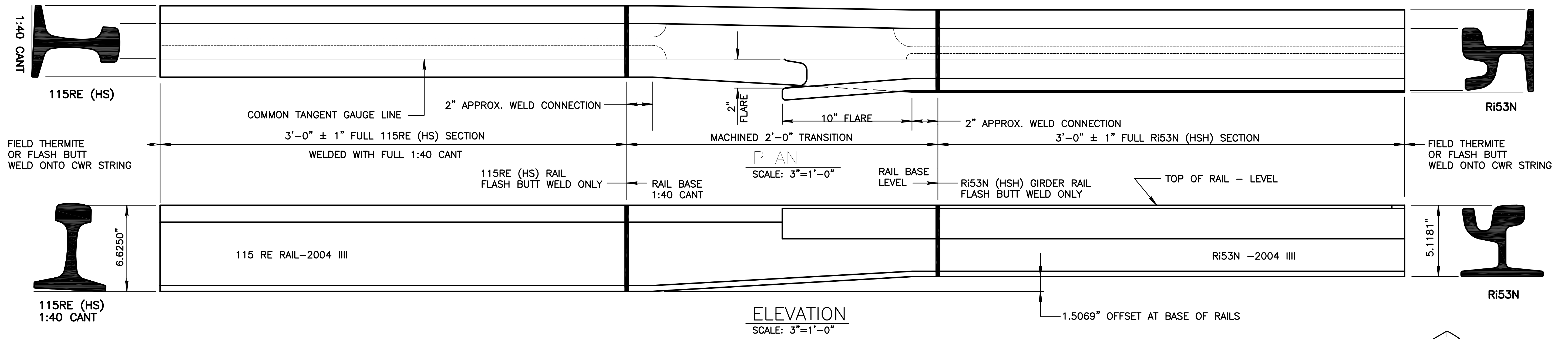
GUIDEWAY SECTION  
 NO SCALE

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 Moseke, Doug

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		64 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TRD102 SCALE: AS NOTED PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.





- NOTES:
- TRANSITION RAIL BLOCKS TO BE USED WHERE CONNECTION BETWEEN 115RE RAIL AND Ri53 GIRDER GROOVE RAIL IS REQUIRED.
  - TRANSITION RAIL BLOCKS TO BE ORDERED IN PAIRS AND INSTALLED OPPOSITE EACH OTHER.
    - 115RE/Ri53N PAIR CONSISTING OF TWO BLOCKS
    - Ri53N/115RE PAIR CONSISTING OF TWO BLOCKS
  - SEE LEGEND FOR RIGHT & LEFT HAND TRANSITION BLOCK INSTALLATION DETAILS (NOTE IDENTICAL SHAPES)
  - 115RE RAIL TO BE HIGH STRENGTH (HS).
  - Ri53N GIRDER RAIL TO BE HEAD SPECIAL HARDENED (HSH).

**TRANSITION RAIL BLOCK  
115RE (HS) RAIL TO  
Ri53N (HSH) GIRDER RAIL**

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

65  
OF  
184

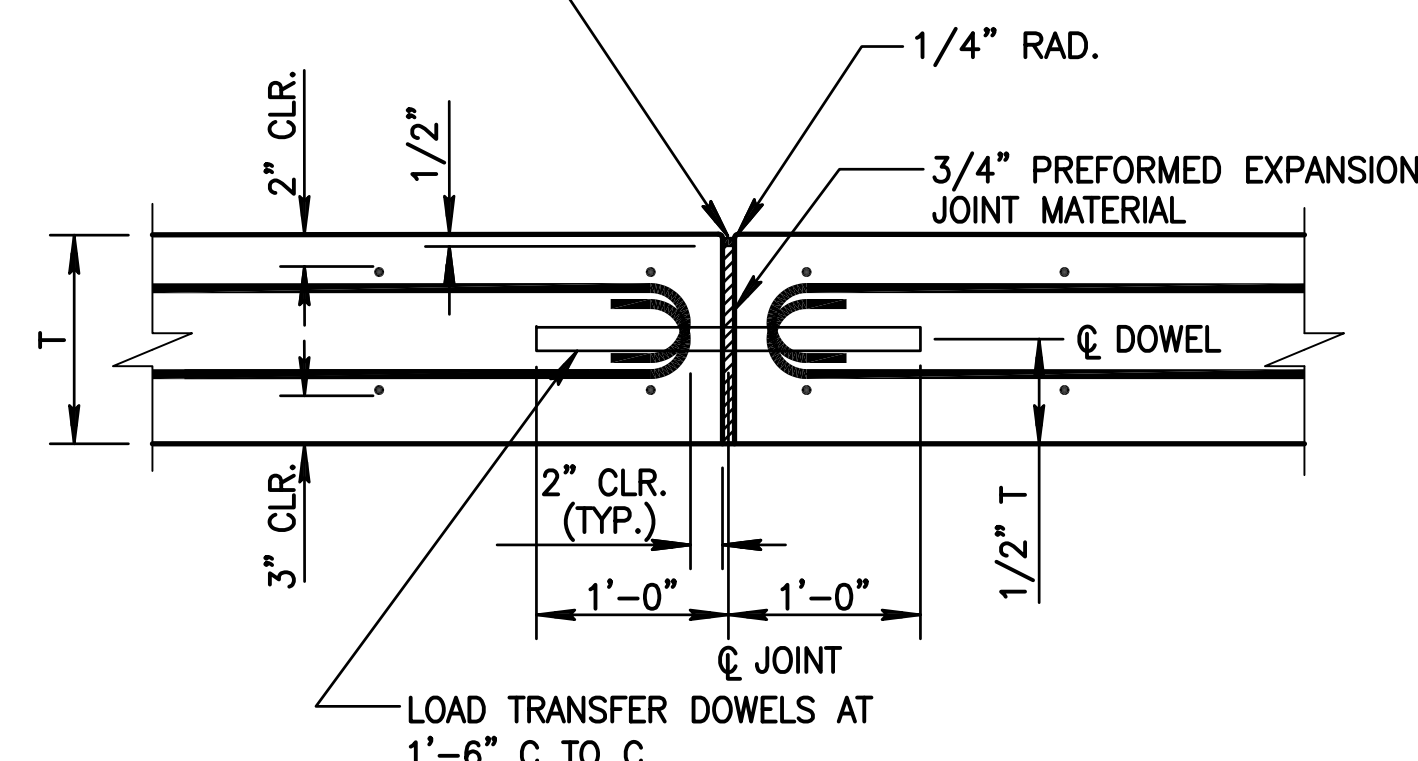


DRWN. BY V. HO  
DSGN. BY D. MOSEKE, JD, HP  
CHKD. BY A. BATT

REF. CC-TRD103 SCALE:  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

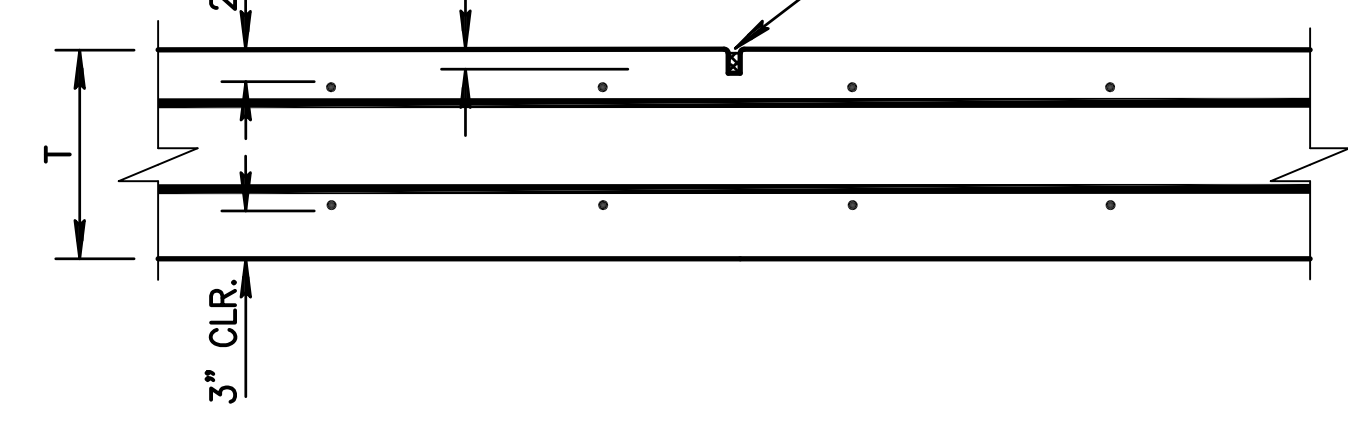
APPROVED SILICONE SEALANT  
RECESS 1/4" FROM CONCRETE SURFACE  
(1/4" SEALANT HEIGHT MIN.)



**EXPANSION JOINT - DETAIL**  
SCALE: 1"=1'-0"

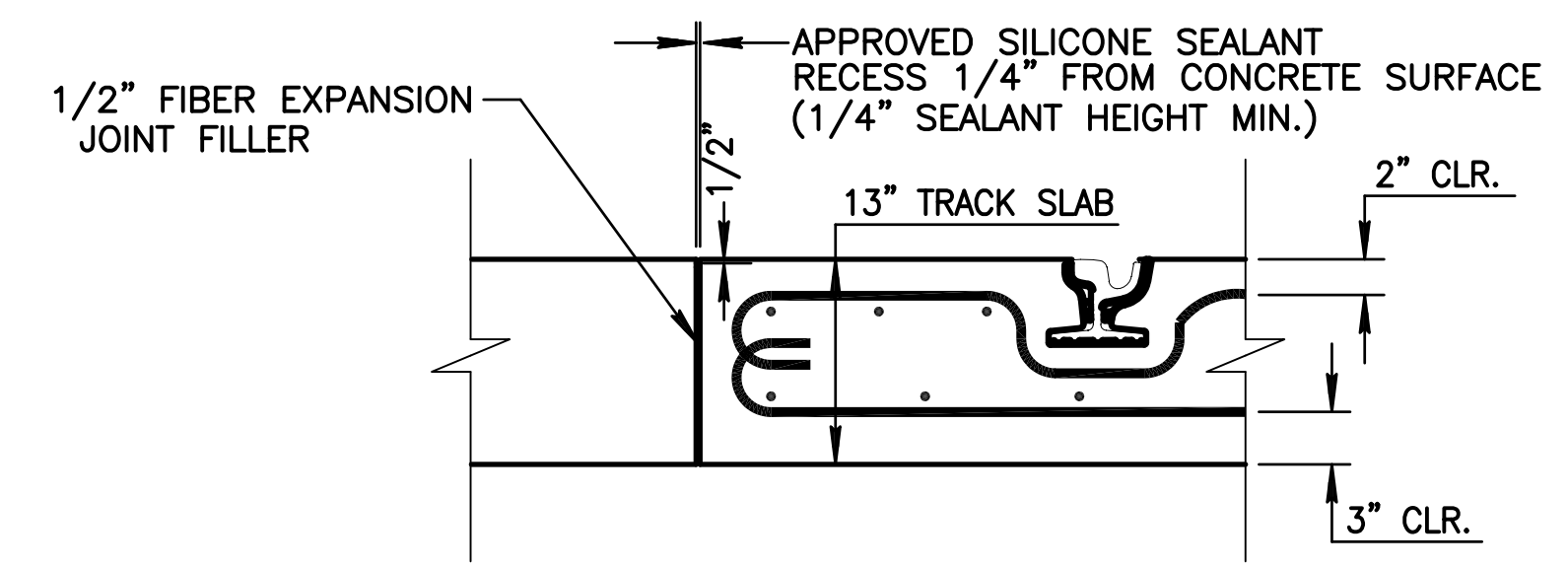
NOTE: TRANSVERSE EXPANSION JOINT SHOWN,  
LONGITUDINAL EXPANSION JOINT SIMILAR.

IMPRESSION MADE BY JOINT  
TOOL, 1/4" PLATE & EDGING  
TOOL WITH 1/4" RADIUS.



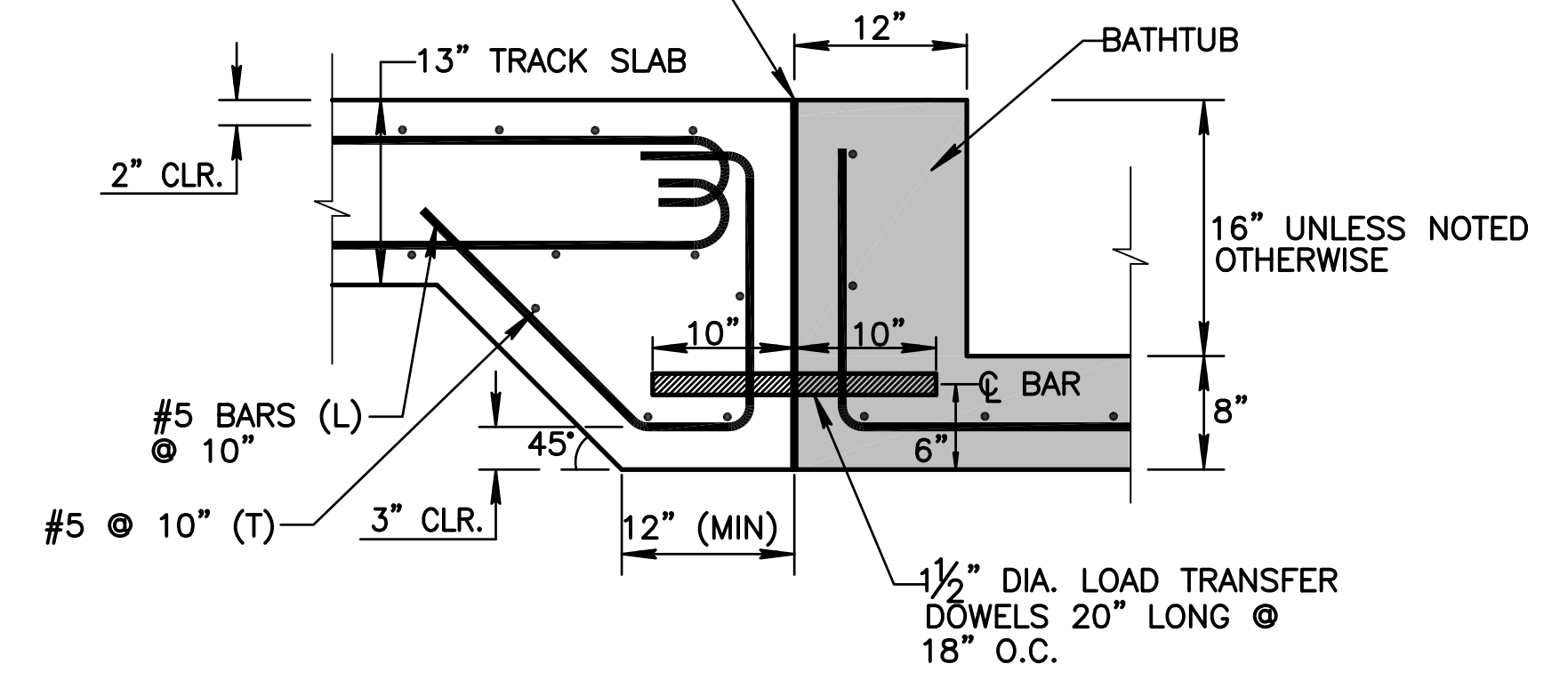
**CONTROLLED TOOL JOINT - DETAIL**  
SCALE: 1"=1'-0"

NOTE: CONTROLLED TOOL JOINT OUTSIDE OF LIMITS OF  
RAIL LEVELING BEAMS.



**DEVIL STRIP JOINT - DETAIL**  
SCALE: 1"=1'-0"

EXPANSION JOINT, SEE DETAIL 1



**TRACK SLAB JOINT DETAIL AT TURNOUT BATH TUB**  
SCALE: 1"=1'-0"

**NOTES:**

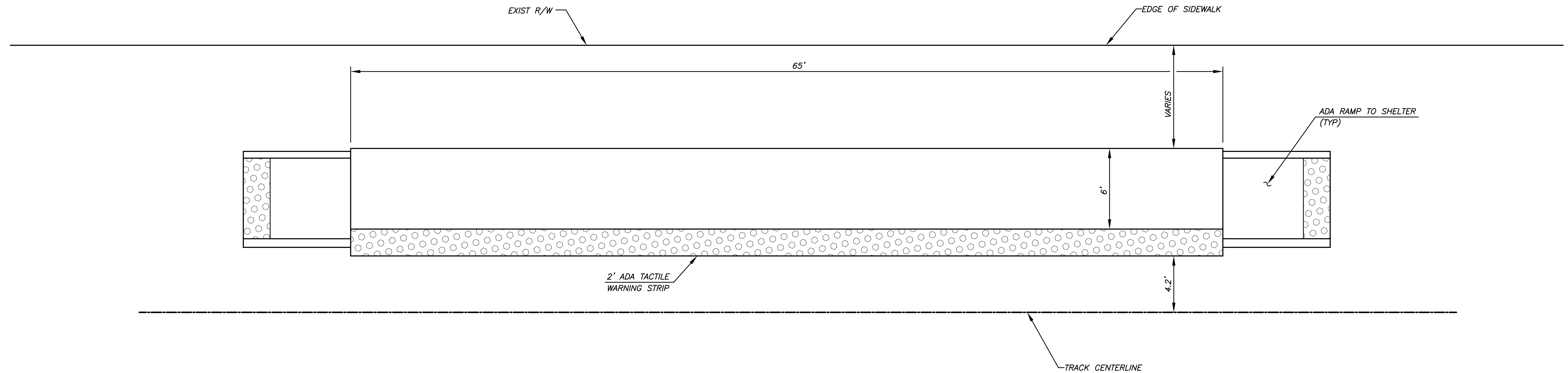
1. REFER TO TRACKWORK DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS AND CONTROLLED TOOL JOINTS.
- 2a. FURNISH AND INSTALL LOAD TRANSFER DOWELS IN ACCORDANCE WITH STATE OF ARIZONA, DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD DRAWING NO. C-07.02, EXCEPT AS NOTED.
- 2b. EXPANSION JOINTS BETWEEN TRACK SLAB AND DEVIL STRIP DO NOT REQUIRE LOAD TRANSFER DOWELS.
3. LOAD TRANSFER DOWEL BARS SHALL BE 1 1/2" DIA. PLAIN ROUND BARS WITH EPOXY COATING PER STATE OF ARIZONA, DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS SPECIAL PROVISIONS.

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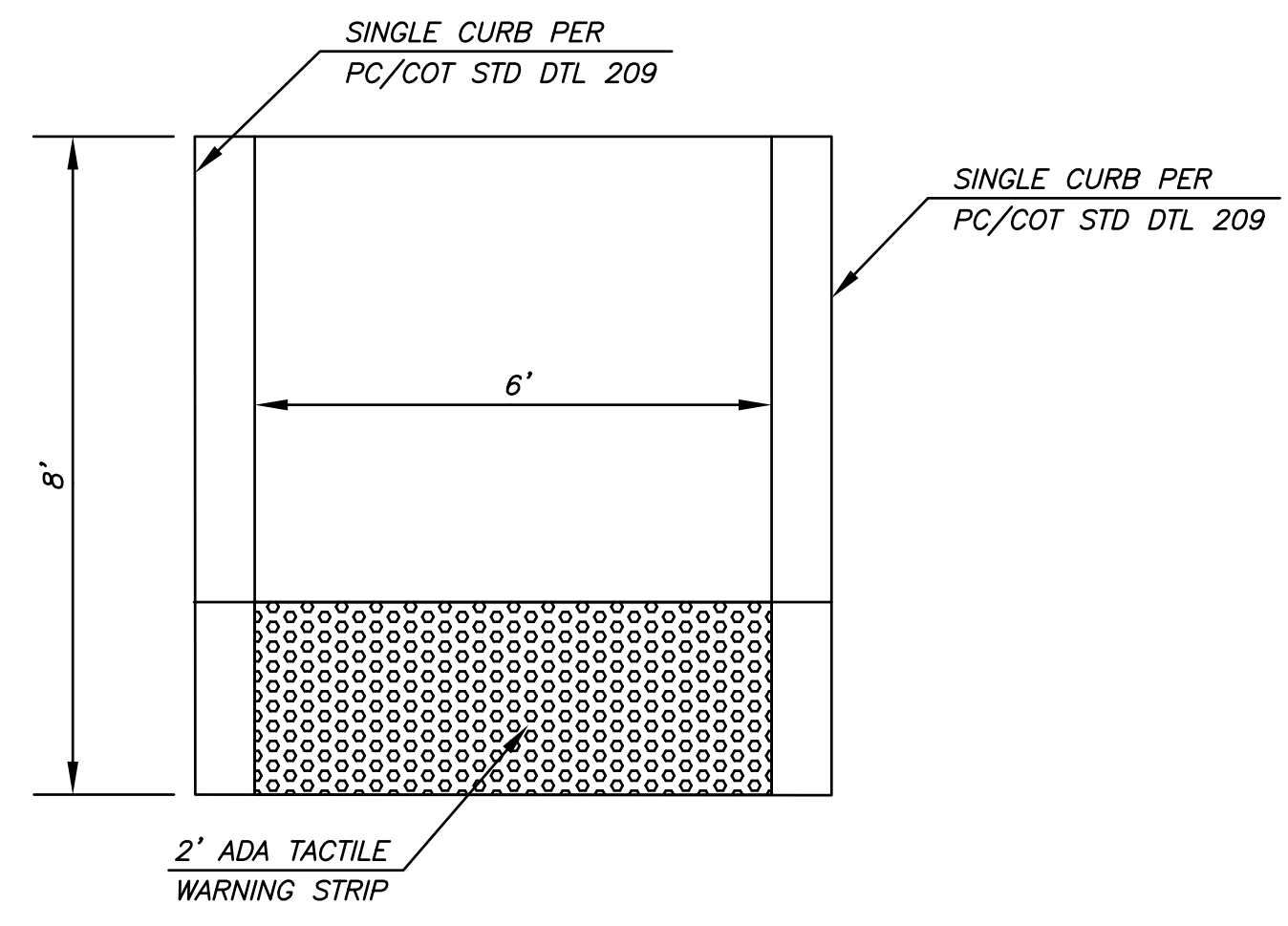
**STRUCTURAL DETAILS  
TRACK SLAB JOINT DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		66 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TRDT04 SCALE: PLAN NO. I-2008-035

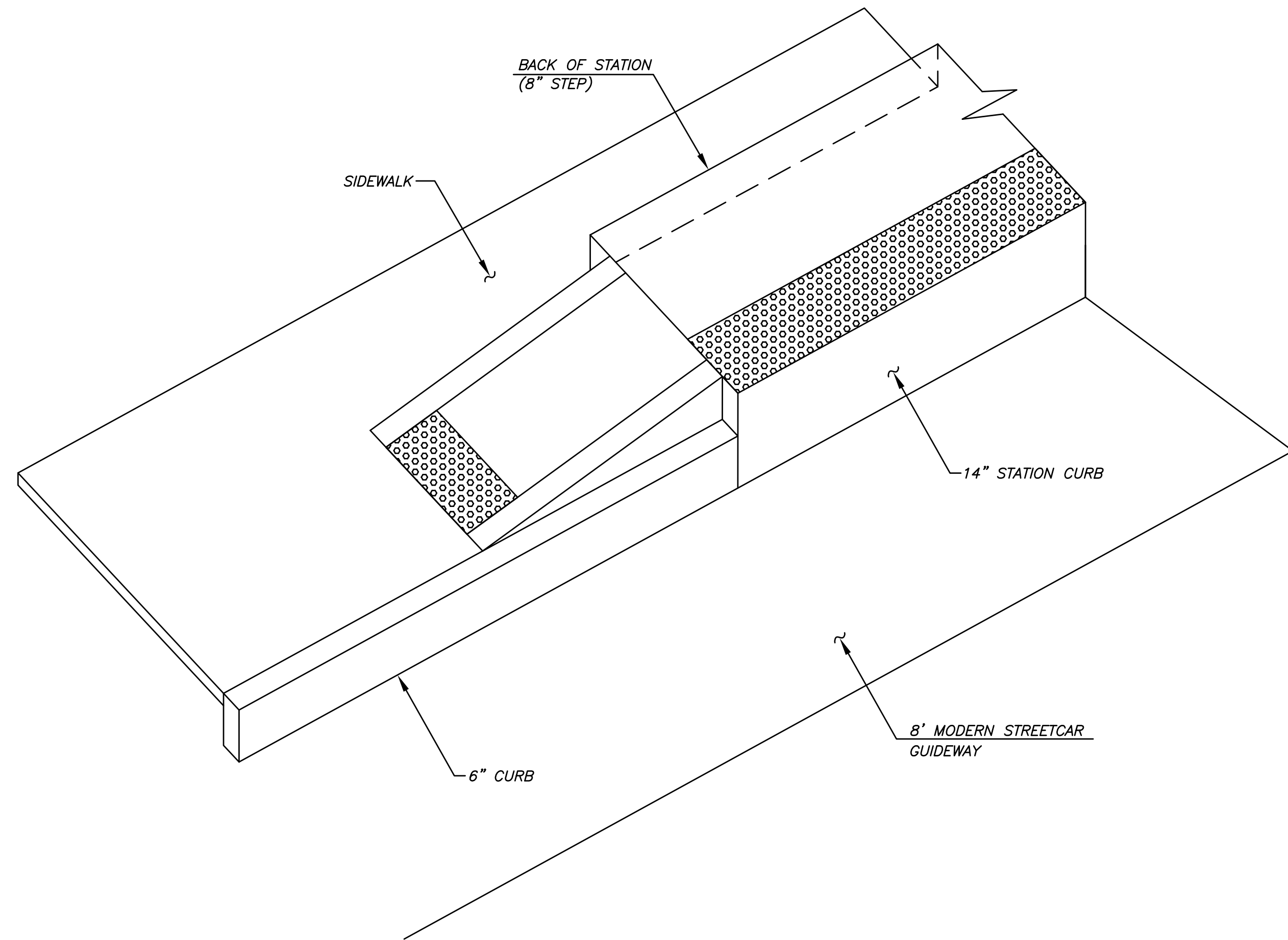
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**SINGLE STATION PLATFORM**  
SCALE: 1"=4'



**STATION RAMP**  
NTS



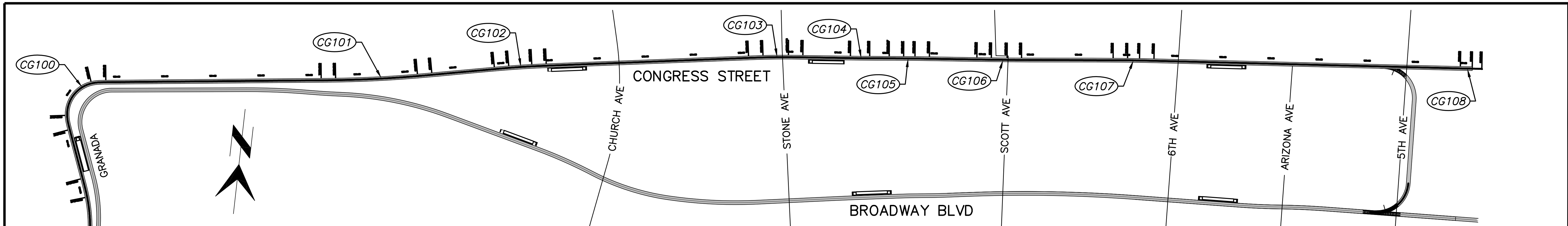
**RAMP ISOMETRIC VIEW**  
NTS

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		DSGN. BY	D. MOSEKE, JD, HP	
		CHKD. BY	A. BATT	PLAN NO. I-2008-035



TRACK ALIGNMENT DATA - CONGRESS

CURVE NO.	POINT	STATION	DISTANCE (ft)	BEARING	PROJECT COORDINATE		CURVE DATA	
					NORTHING	EASTING		
			300.38'	N 19°52'14" W				
CG100							L <sub>S1</sub>	L <sub>S2</sub>
							O <sub>S1</sub>	O <sub>S2</sub>
	TS	157+27.27			445491.83	791007.04	LT <sub>1</sub>	LT <sub>2</sub>
	SC	157+57.27			445520.67	790999.03	ST	ST <sub>2</sub>
	PI	158+10.97			445573.99	790992.62	I	
	CS	158+47.43			445591.10	791043.53	TS <sub>1</sub>	TS <sub>2</sub>
					445596.24	791073.02	R <sub>c</sub>	Δ <sub>c</sub>
							L <sub>c</sub>	T <sub>c</sub>
							V =	Ea = Eu =
			663.58'	N 84°26'37" E				
CG101							L <sub>S1</sub>	L <sub>S2</sub>
							O <sub>S1</sub>	O <sub>S2</sub>
	TS	163+25.00			445639.58	791518.49	LT <sub>1</sub>	LT <sub>2</sub>
	SC	163+55.00			445642.54	791548.34	ST	ST <sub>2</sub>
	PI	164+40.32			445651.32	791633.21	I	
	CS	165+25.58			445665.99	791717.26	TS <sub>1</sub>	TS <sub>2</sub>
					445671.26	791746.79	R <sub>c</sub>	Δ <sub>c</sub>
							L <sub>c</sub>	T <sub>c</sub>
							V =	Ea = Eu =
			299.79'	N 79°45'11" E				
CG102							L <sub>S1</sub>	L <sub>S2</sub>
							O <sub>S1</sub>	O <sub>S2</sub>
	TS	166+86.12			445694.49	791875.26	LT <sub>1</sub>	LT <sub>2</sub>
	SC	167+16.12			445699.73	791904.80	ST	ST <sub>2</sub>
	PI	167+40.01			445703.74	791928.35	I	
	CS	167+63.90			445707.00	791952.01	TS <sub>1</sub>	TS <sub>2</sub>
					445710.90	791981.76	R <sub>c</sub>	Δ <sub>c</sub>
							L <sub>c</sub>	T <sub>c</sub>
							V =	Ea = Eu =
			530.98'	N 82°43'26" E				
CG103							L <sub>S1</sub>	L <sub>S2</sub>
							O <sub>S1</sub>	O <sub>S2</sub>
	TS	172+14.62			445764.19	792399.09	LT <sub>1</sub>	LT <sub>2</sub>
	SC	172+44.62			445767.89	792428.86	ST	ST <sub>2</sub>
	PI	172+70.97			445770.96	792455.03	I	
	CS	172+97.32			445773.12	792481.30	TS <sub>1</sub>	TS <sub>2</sub>
					445775.37	792511.21	R <sub>c</sub>	Δ <sub>c</sub>
							L <sub>c</sub>	T <sub>c</sub>
							V =	Ea = Eu =
			175.30'	N 85°52'58" E				
CG104							L	
	PC	174+26.21			445782.47	792609.85	R	
	PI	174+46.25			445783.91	792629.84	Δ	
	PT	174+66.29			445785.62	792649.81	T	
							V =	Ea = Eu =

TRACK ALIGNMENT DATA - CONGRESS

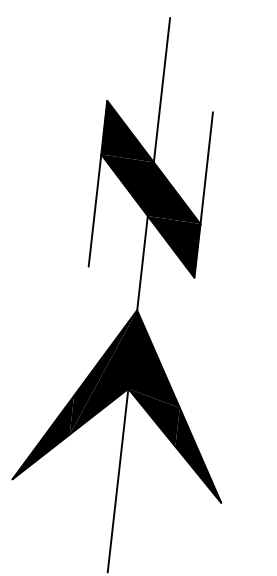
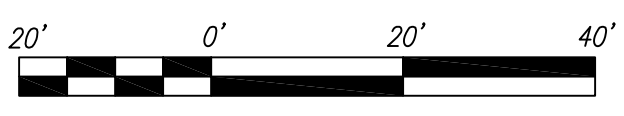
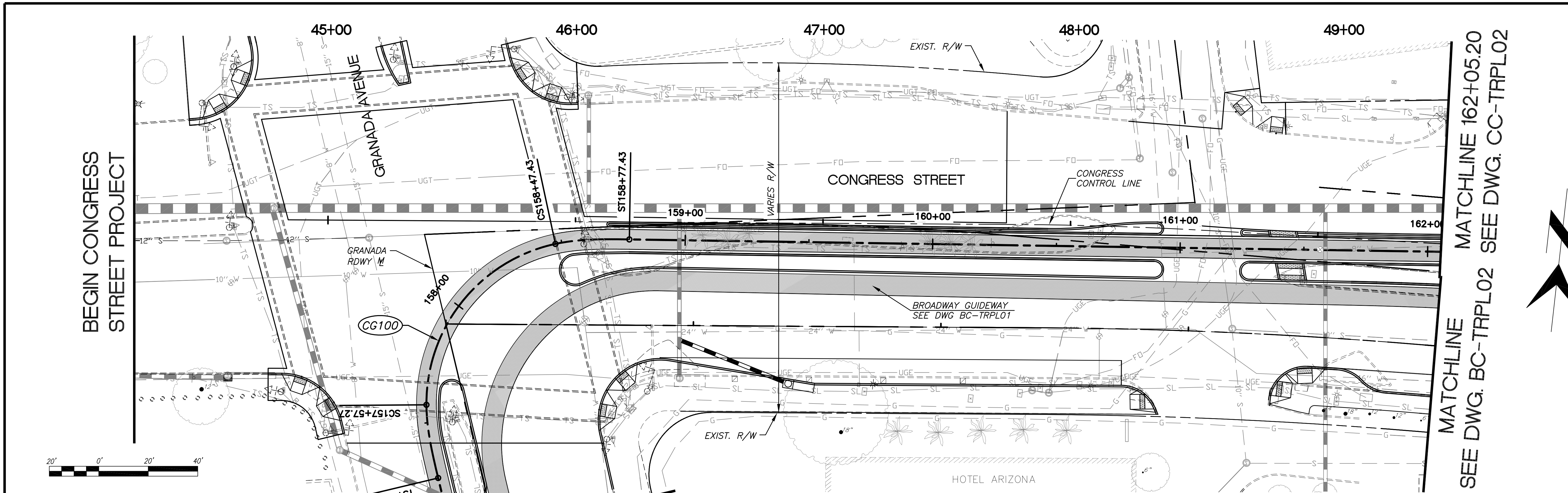
CURVE NO.	POINT	STATION	DISTANCE (ft)	BEARING	PROJECT COORDINATE		CURVE DATA	
					NORTHING	EASTING		
			102.33'	N 85°07'02" E				
CG105							L <sub>S1</sub>	L <sub>S2</sub>
							O <sub>S1</sub>	O <sub>S2</sub>
	TS	175+06.87			445789.07	792690.23	LT <sub>1</sub>	LT <sub>2</sub>
	SC	175+36.87			445791.59	792720.13	ST	ST <sub>2</sub>
	PI	175+48.59			445792.54	792731.81	I	
	CS	175+60.31			445793.42	792743.50	TS <sub>1</sub>	TS <sub>2</sub>
					445795.62	792773.42	R <sub>c</sub>	Δ <sub>c</sub>
							L <sub>c</sub>	T <sub>c</sub>
							V =	Ea = Eu =
			186.89'	N 85°52'58" E				
CG106							L <sub>S1</sub>	L <sub>S2</sub>
							O <sub>S1</sub>	O <sub>S2</sub>
	TS	176+89.06			445802.71	792871.92	LT <sub>1</sub>	LT <sub>2</sub>
	SC	177+19.06			445804.89	792901.84	ST	ST <sub>2</sub>
	PI	177+35.47			445806.12	792918.20	I	
	CS	177+51.88			445807.47	792934.56	TS <sub>1</sub>	TS <sub>2</sub>
					445810.00	792964.45	R <sub>c</sub>	Δ <sub>c</sub>
							L <sub>c</sub>	T <sub>c</sub>
							V =	Ea = Eu =
			279.07'	N 85°06'31" E				
CG107							L <sub>S1</sub>	L <sub>S2</sub>
							O <sub>S1</sub>	O <sub>S2</sub>
	TS	179+72.16			445826.22	793154.03	LT <sub>1</sub>	LT <sub>2</sub>
	SC	180+02.16			445828.72	793183.93	ST	ST <sub>2</sub>
	PI	180+14.54			445829.70	793196.27	I	
	CS	180+26.92			445830.56	793208.62	TS <sub>1</sub>	TS <sub>2</sub>
					445832.52	793238.56	R <sub>c</sub>	Δ <sub>c</sub>
							L <sub>c</sub>	T <sub>c</sub>
							V =	Ea = Eu =
			691.65	N 86°21'50" E				
CG108							L	
	PC	186+93.78			445872.91	793874.13	R	
	PI	187+06.19			445873.70	793886.52	Δ	
	PT	187+18.59			445874.61	793898.89	T	
							V =	Ea = Eu =
				N 85°47'42" E± (MATCH EXIST)				

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 Moseley, Doug

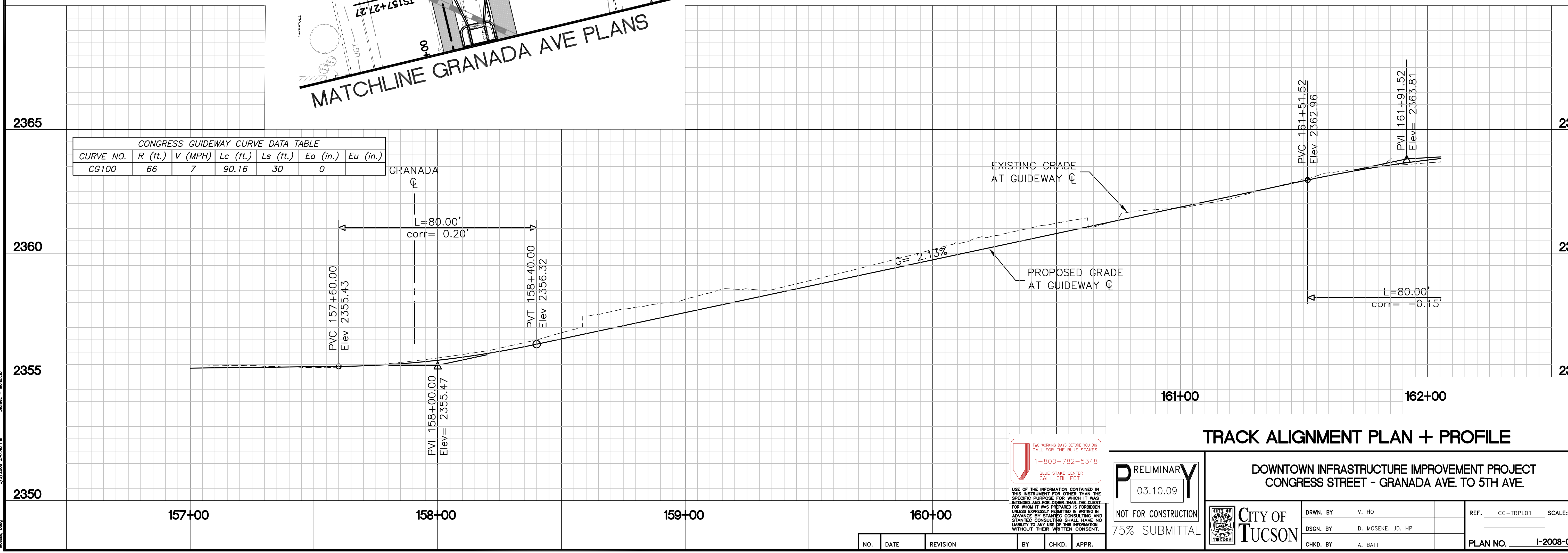
**P**RELIMINARY  
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 75% SUBMITTAL

		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		68 OF 184
		DRWN. BY V. HO DSGN. BY D. MOSELEY, JD, HP CHKD. BY A. BATT	REF. CC-TAPL01 SCALE: 1"=100' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.



BEGIN CONGRESS STREET PROJECT  
 MATCHLINE 162+05.20  
 SEE DWG. BC-TRPLOT SEE DWG. CC-TRPLOT2



CONGRESS GUIDEWAY CURVE DATA TABLE						
CURVE NO.	R (ft.)	V (MPH)	Lc (ft.)	Ls (ft.)	Ea (in.)	Eu (in.)
CG100	66	7	90.16	30	0	

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**TRACK ALIGNMENT PLAN + PROFILE**

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
 CONGRESS STREET - GRANADA AVE. TO 5TH AVE.



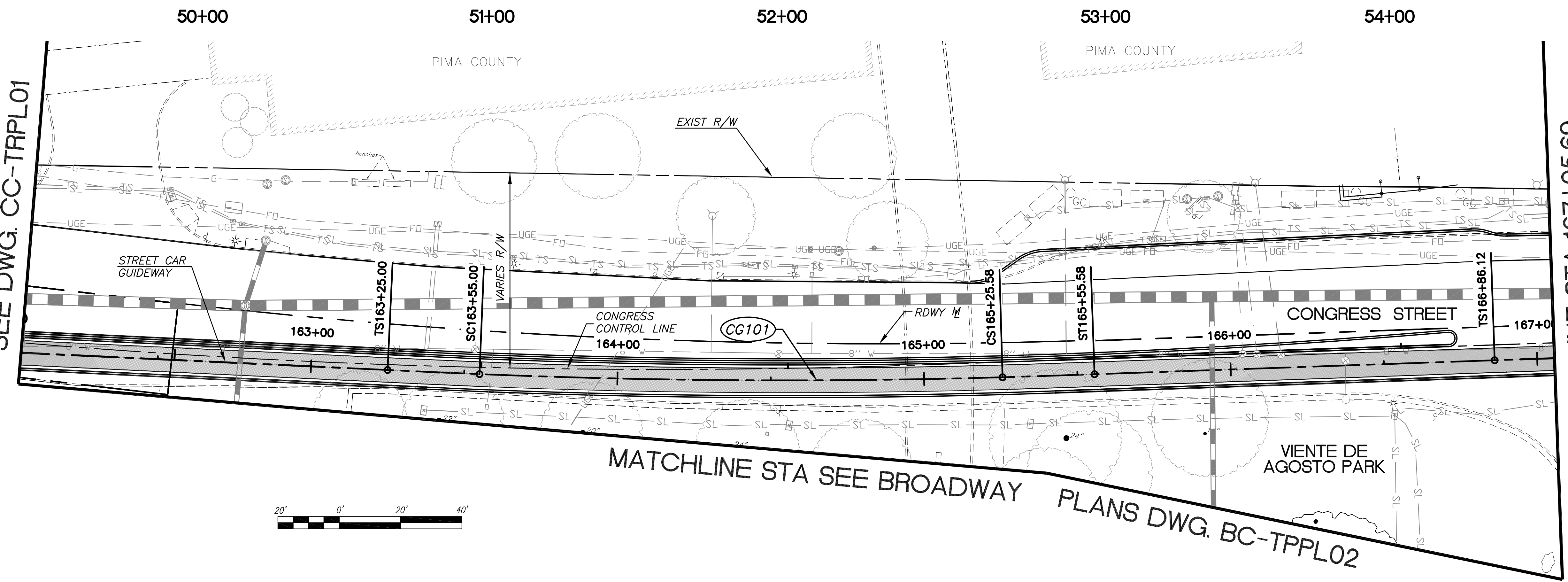
DRWN. BY V. HO  
 DSGN. BY D. MOSEKE, JD, HP  
 CHKD. BY A. BATT

REF. CC-TRPLOT1 SCALE: 1"=20'  
 PLAN NO. I-2008-035

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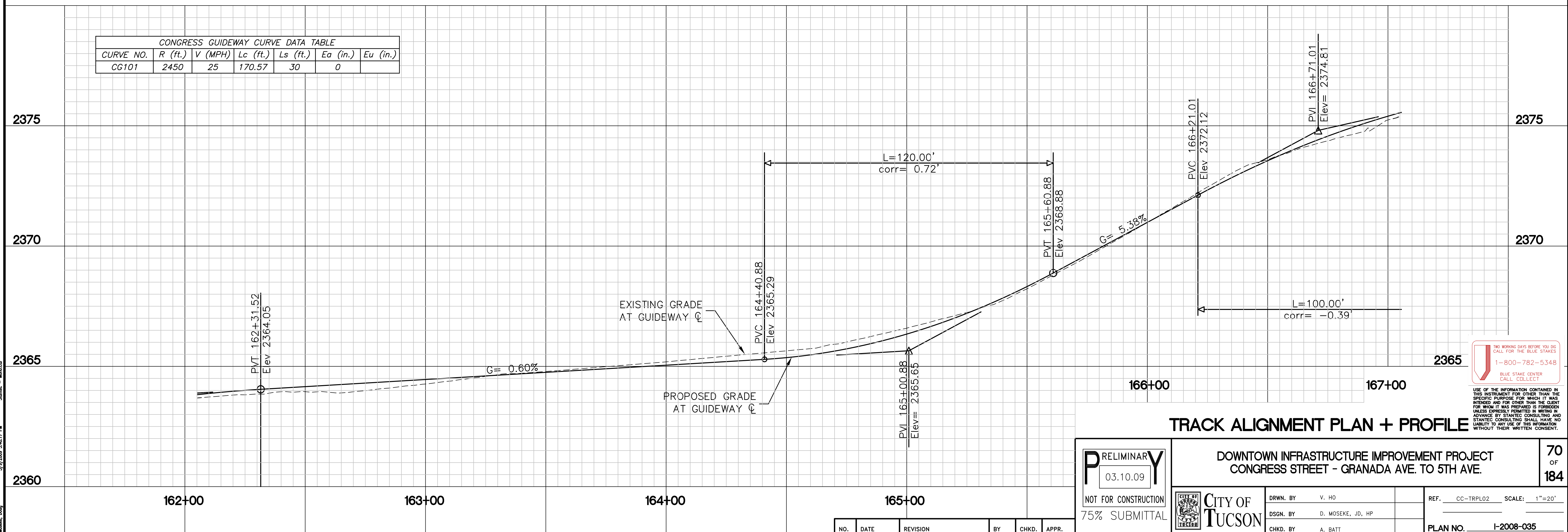
MATCHLINE 162+05.20  
SEE DWG. CC-TRPLO1

MATCHLINE STA 167+05.69  
SEE DWG. CC-TRPLO3



MATCHLINE STA SEE BROADWAY PLANS DWG. BC-TPPL02

CONGRESS GUIDEWAY CURVE DATA TABLE						
CURVE NO.	R (ft.)	V (MPH)	Lc (ft.)	Ls (ft.)	Ea (in.)	Eu (in.)
CG101	2450	25	170.57	30	0	



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TRACK ALIGNMENT PLAN + PROFILE

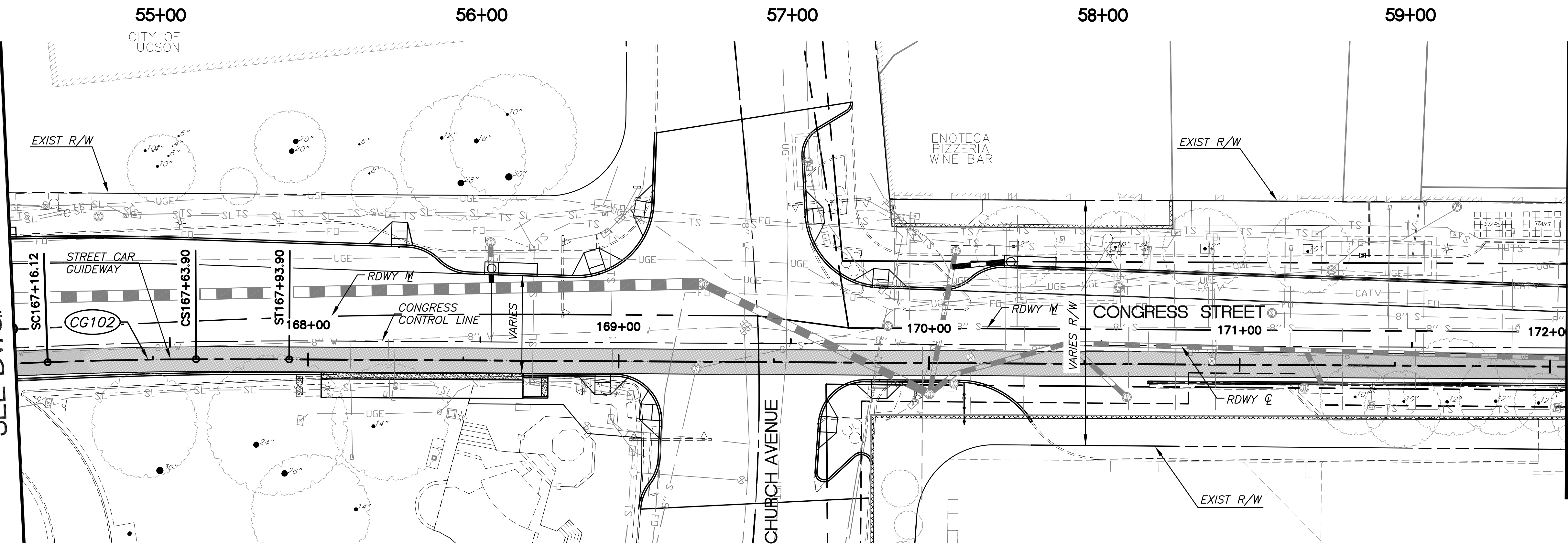
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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		70 OF 184
CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TRPLO2 SCALE: 1"=20' PLAN NO. I-2008-035

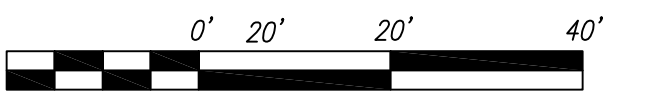
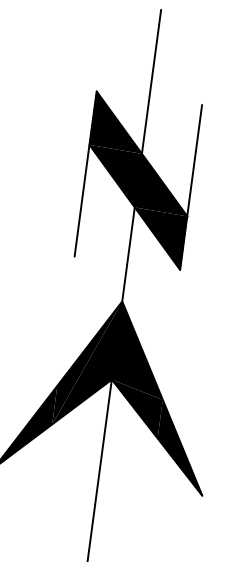
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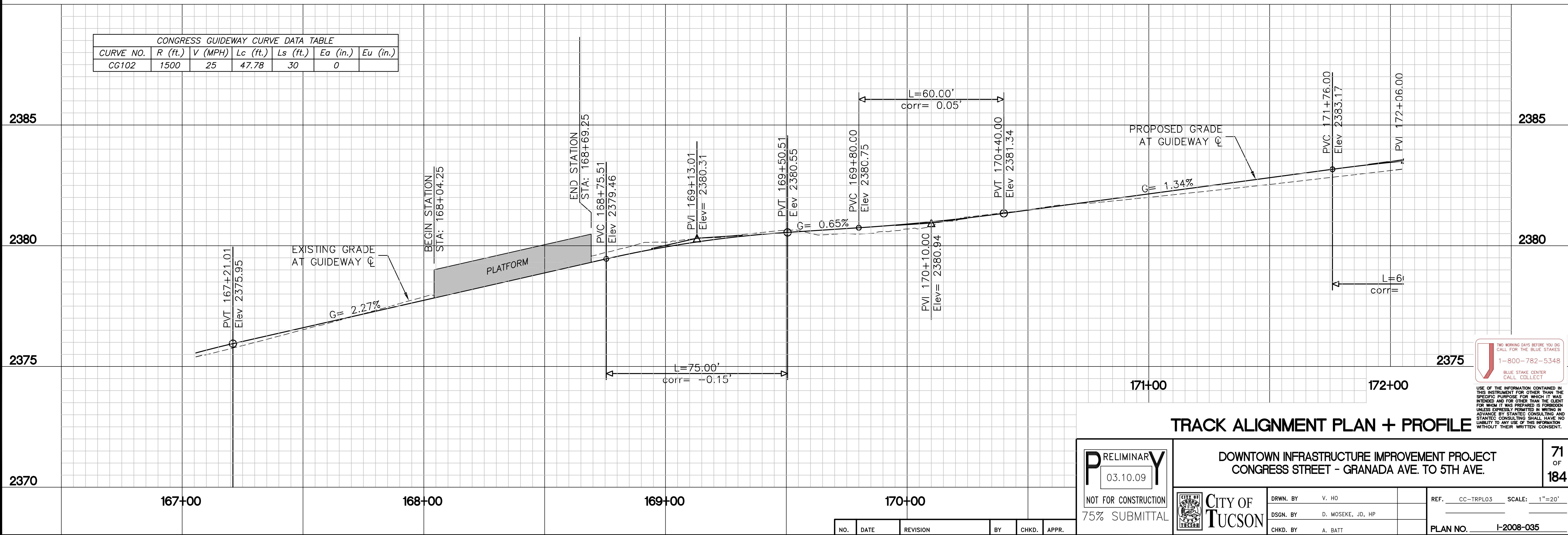
MATCHLINE STA 167+05.69  
SEE DWG. CC-TRPL02



MATCHLINE STA 172+05.43  
SEE DWG. CC-TRPL04



CONGRESS GUIDEWAY CURVE DATA TABLE						
CURVE NO.	R (ft.)	V (MPH)	Lc (ft.)	Ls (ft.)	Ea (in.)	Eu (in.)
CG102	1500	25	47.78	30	0	



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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

71  
OF  
184



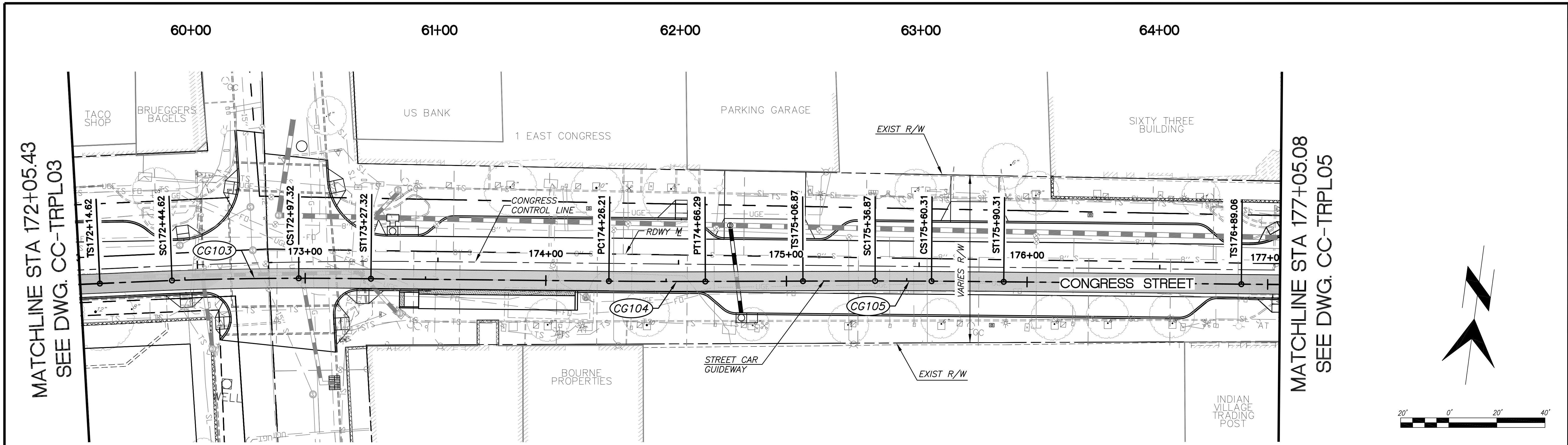
DRWN. BY V. HO  
DSGN. BY D. MOSEKE, JD, HP  
CHKD. BY A. BATT

REF. CC-TRPL03 SCALE: 1"=20'

PLAN NO. I-2008-035

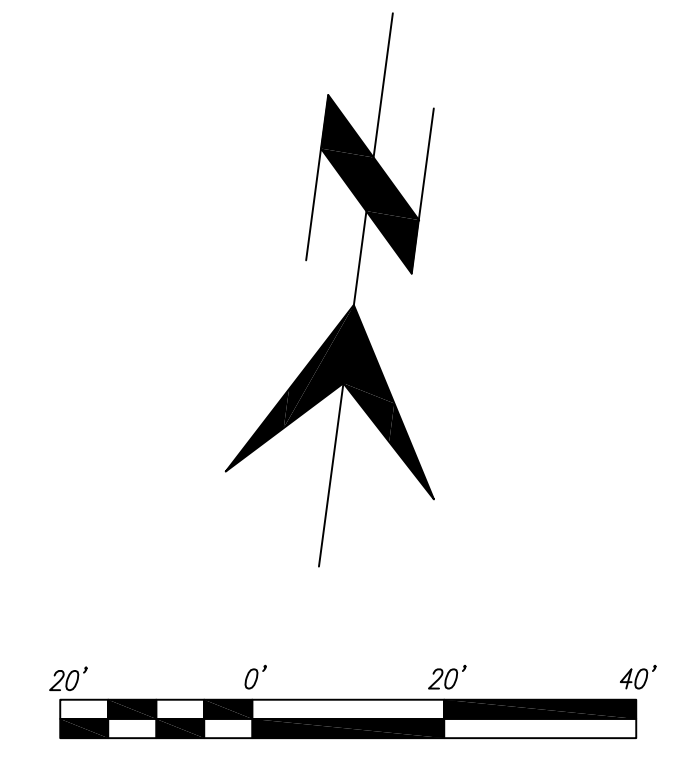
NO.	DATE	REVISION	BY	CHKD.	APPR.

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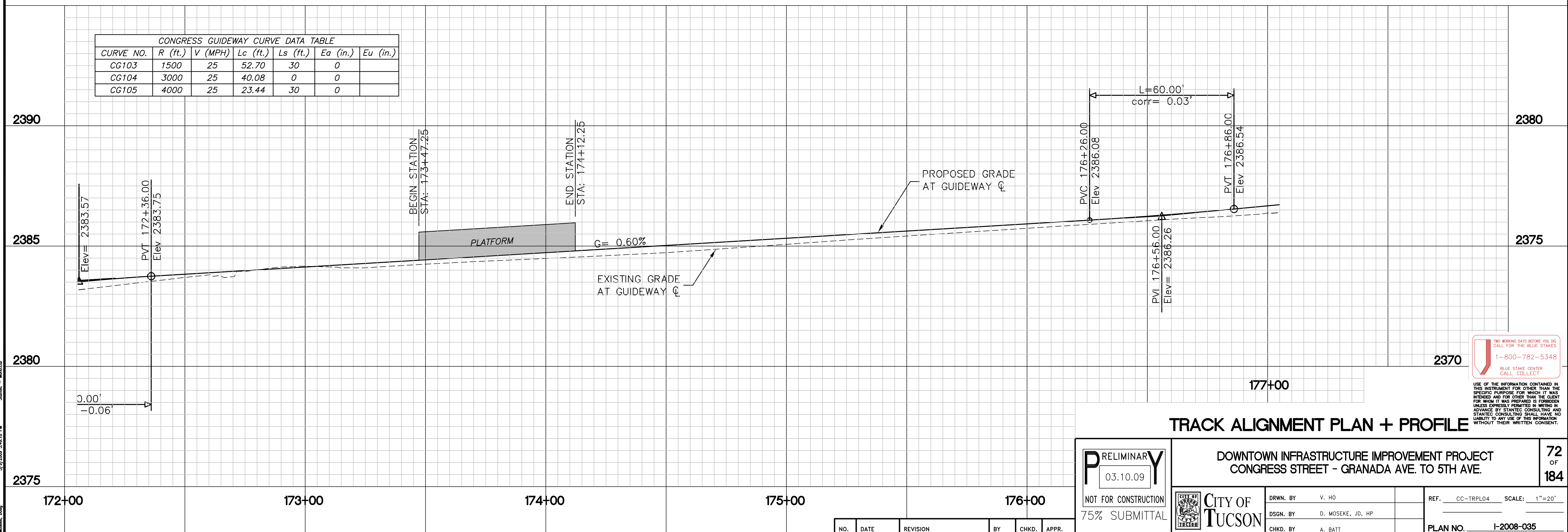


MATCHLINE STA 172+05.43  
SEE DWG. CC-TRPL03

MATCHLINE STA 177+05.08  
SEE DWG. CC-TRPL05



CONGRESS GUIDEWAY CURVE DATA TABLE						
CURVE NO.	R (ft.)	V (MPH)	Lc (ft.)	Ls (ft.)	Ea (in.)	Eu (in.)
CG103	1500	25	52.70	30	0	
CG104	3000	25	40.08	0	0	
CG105	4000	25	23.44	30	0	



TRACK ALIGNMENT PLAN + PROFILE

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		72 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TRPL04 SCALE: 1"=20' PLAN NO. I-2008-035

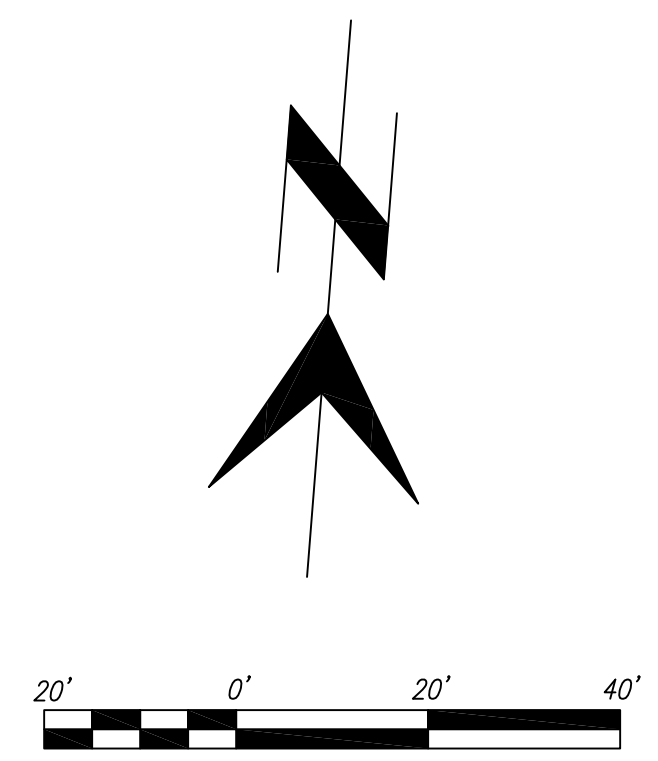
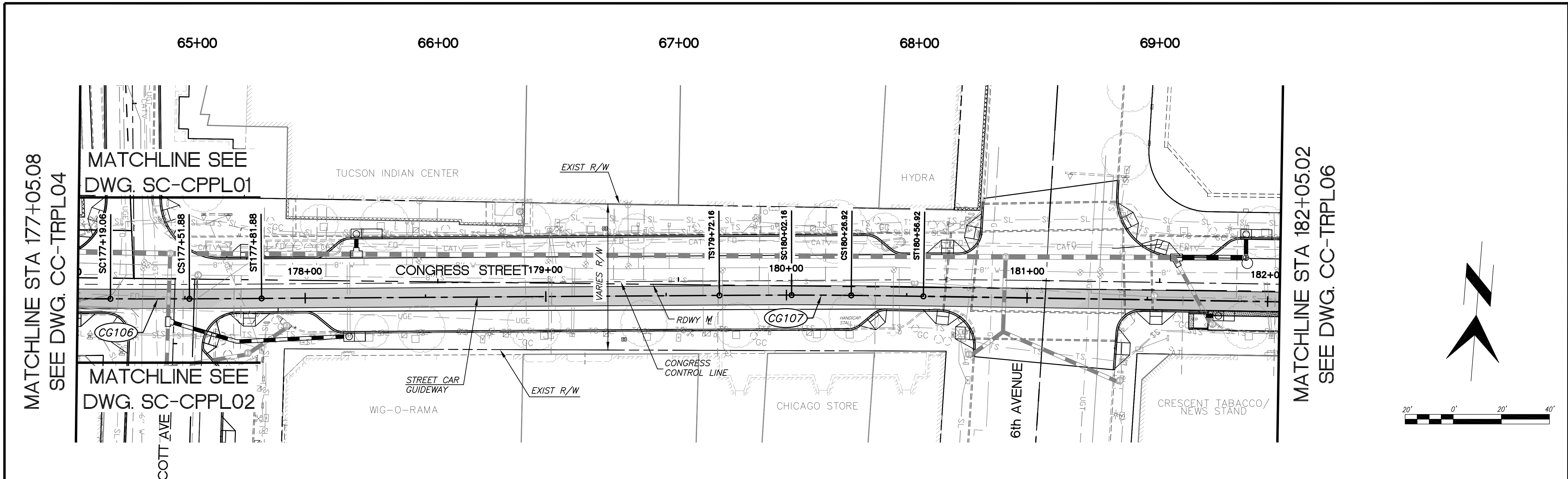
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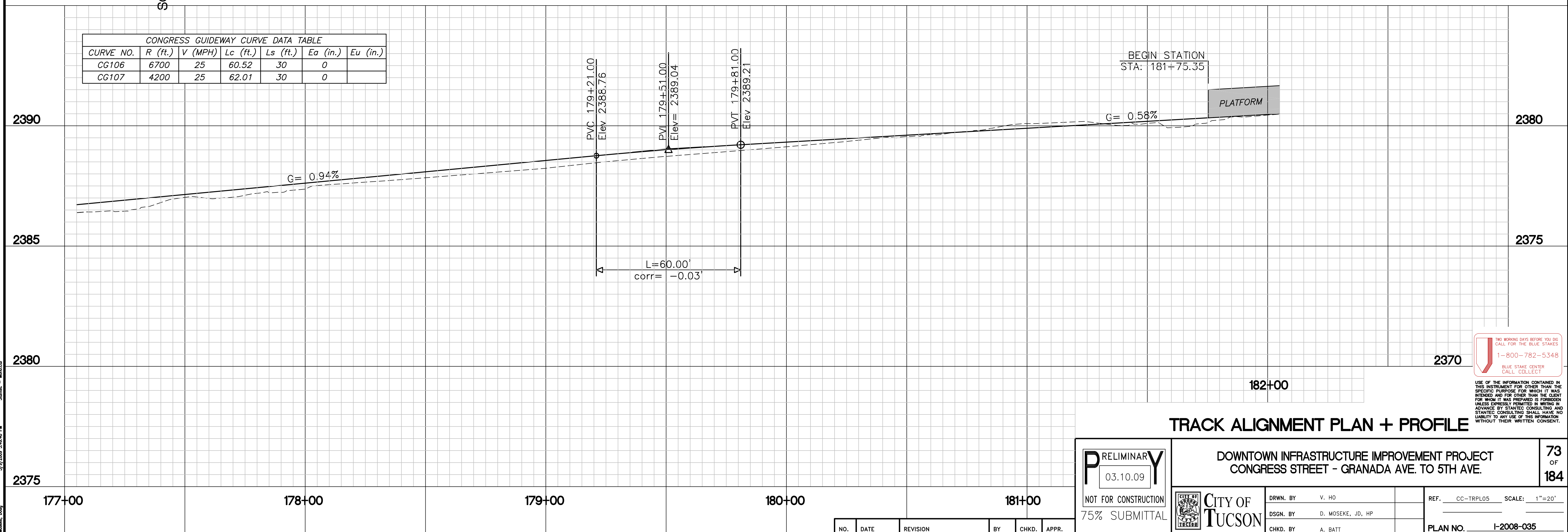
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CONGRESS GUIDEWAY CURVE DATA TABLE

CURVE NO.	R (ft.)	V (MPH)	Lc (ft.)	Ls (ft.)	Ea (in.)	Eu (in.)
CG106	6700	25	60.52	30	0	0
CG107	4200	25	62.01	30	0	0



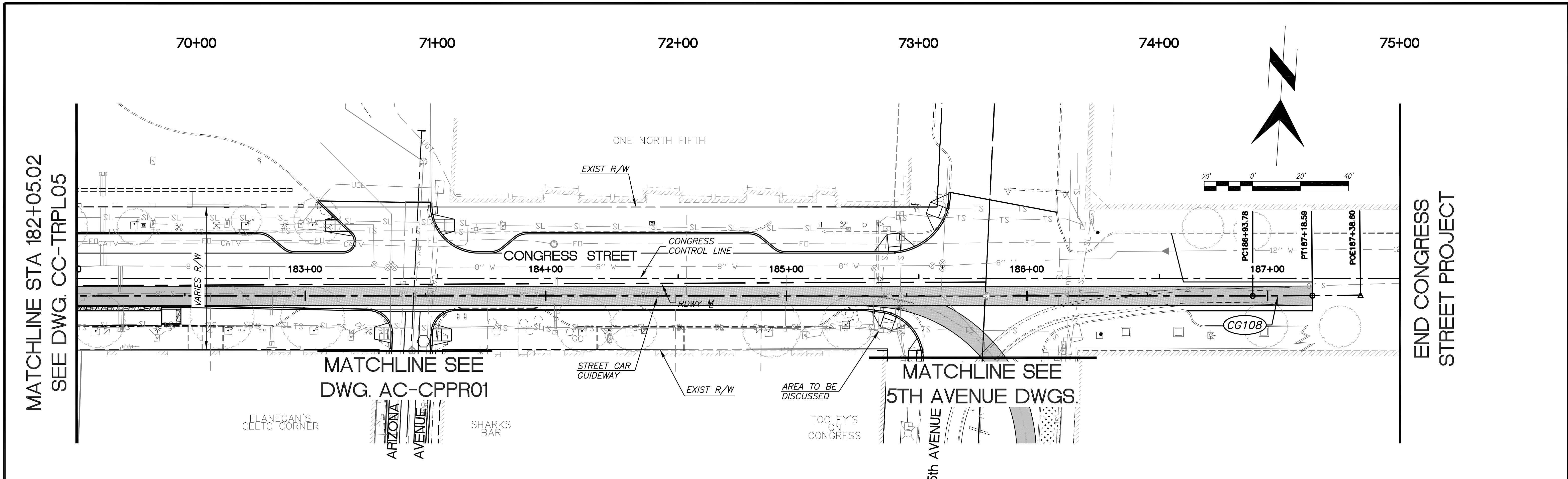
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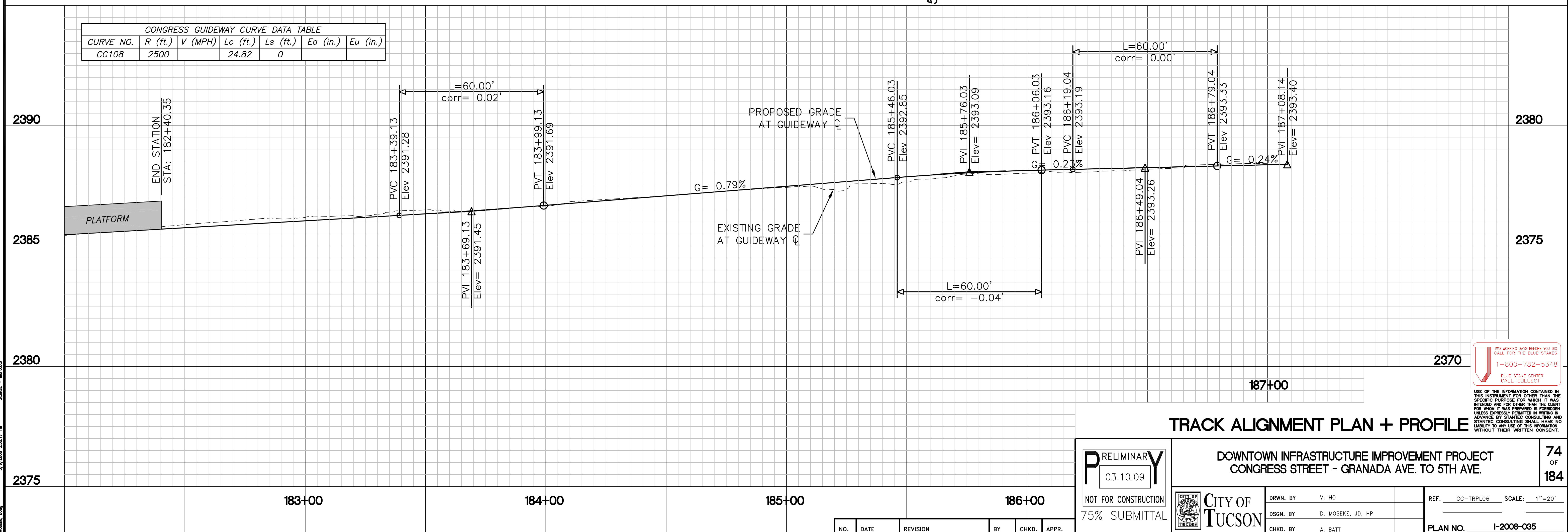
TRACK ALIGNMENT PLAN + PROFILE

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		73 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TRPL05 SCALE: 1"=20' PLAN NO. I-2008-035

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CONGRESS GUIDEWAY CURVE DATA TABLE						
CURVE NO.	R (ft.)	V (MPH)	Lc (ft.)	Ls (ft.)	Ea (in.)	Eu (in.)
CG108	2500		24.82	0		



**TRACK ALIGNMENT PLAN + PROFILE**

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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		74 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TRPL06 SCALE: 1"=20' PLAN NO. I-2008-035

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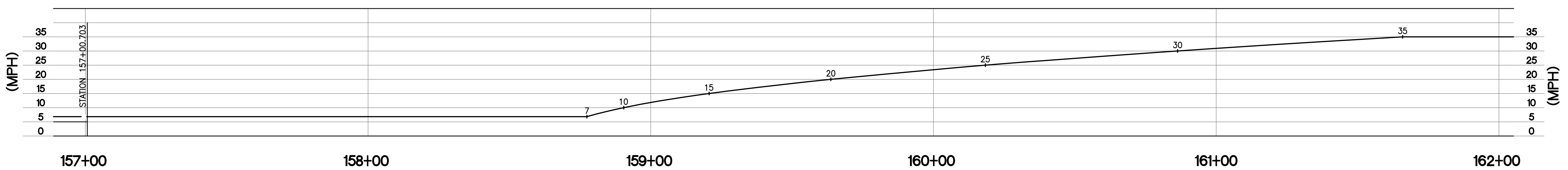
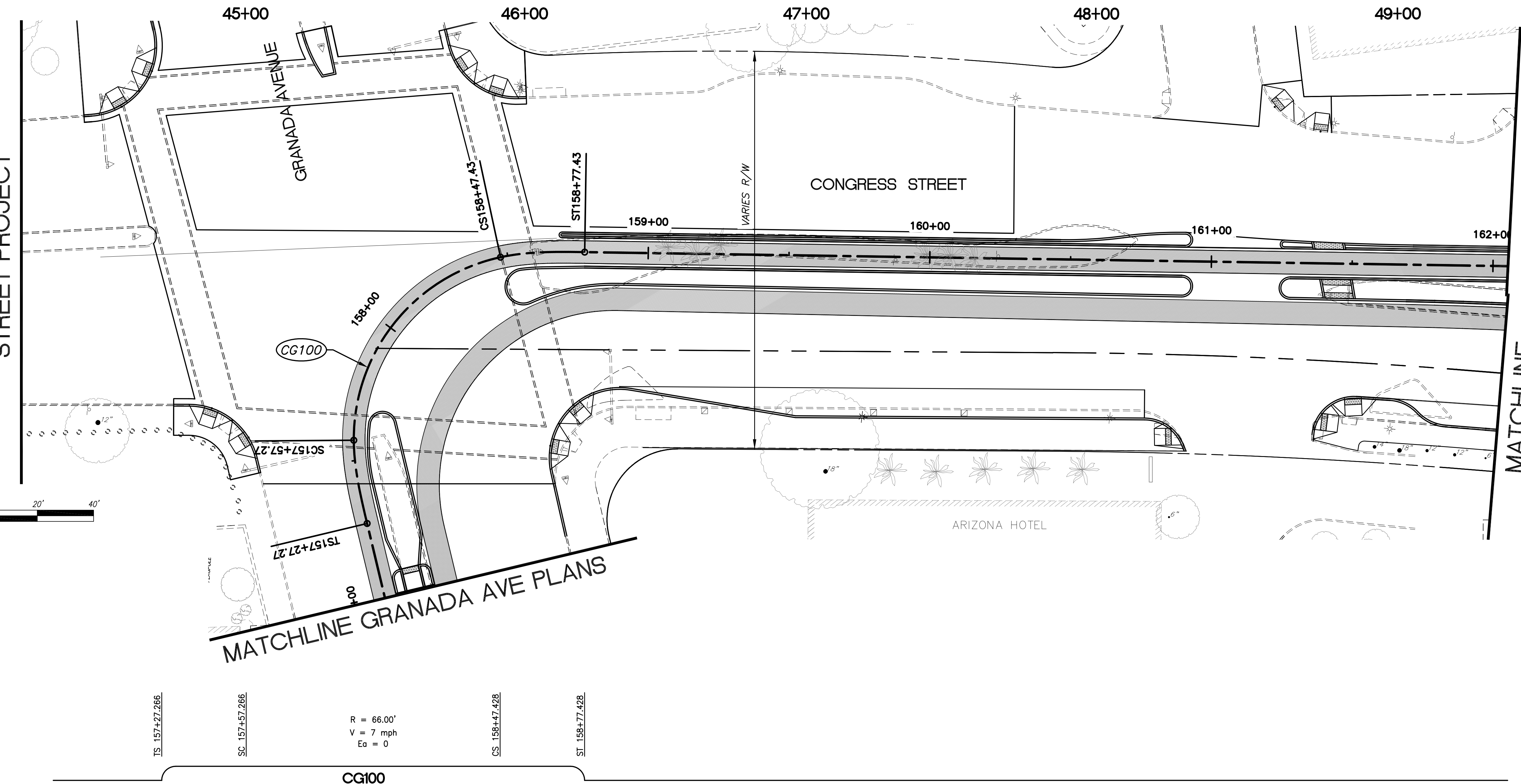
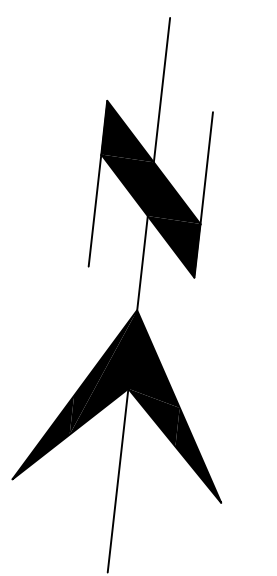
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BEGIN CONGRESS STREET PROJECT

MATCHLINE GRANADA AVE PLANS

MATCHLINE 162+05.20  
SEE DWG. BC-TCPL02 SEE DWG. CC-TCPL02



R = 66.00'  
V = 7 mph  
E = 0

TRACK CHART

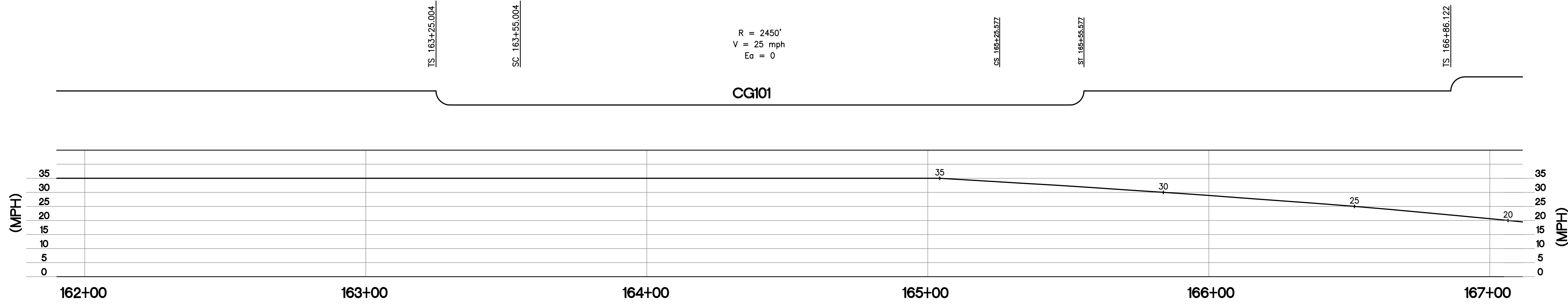
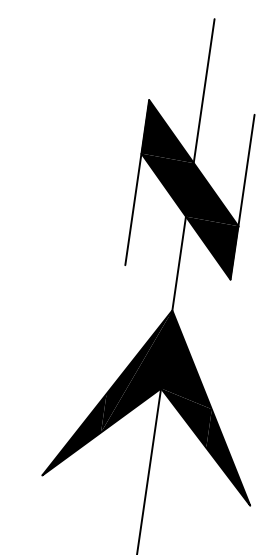
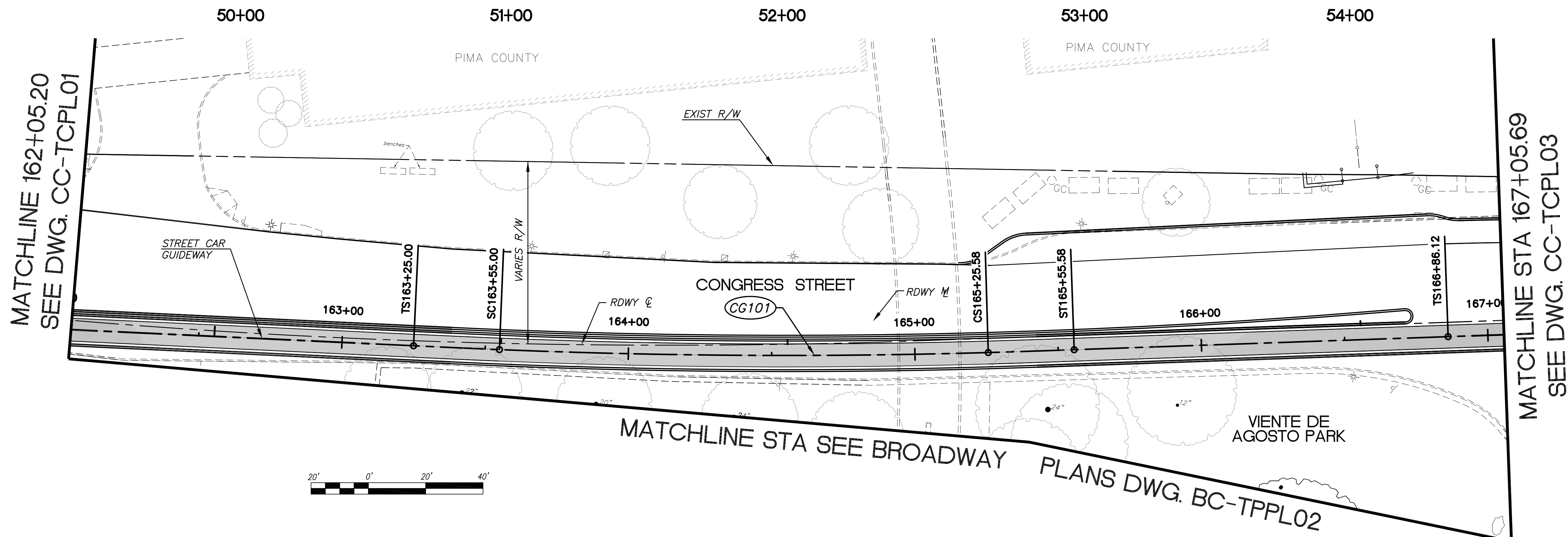
1-800-782-5348  
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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		75 of 184
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(MPH)

(MPH)

**TRACK CHART**

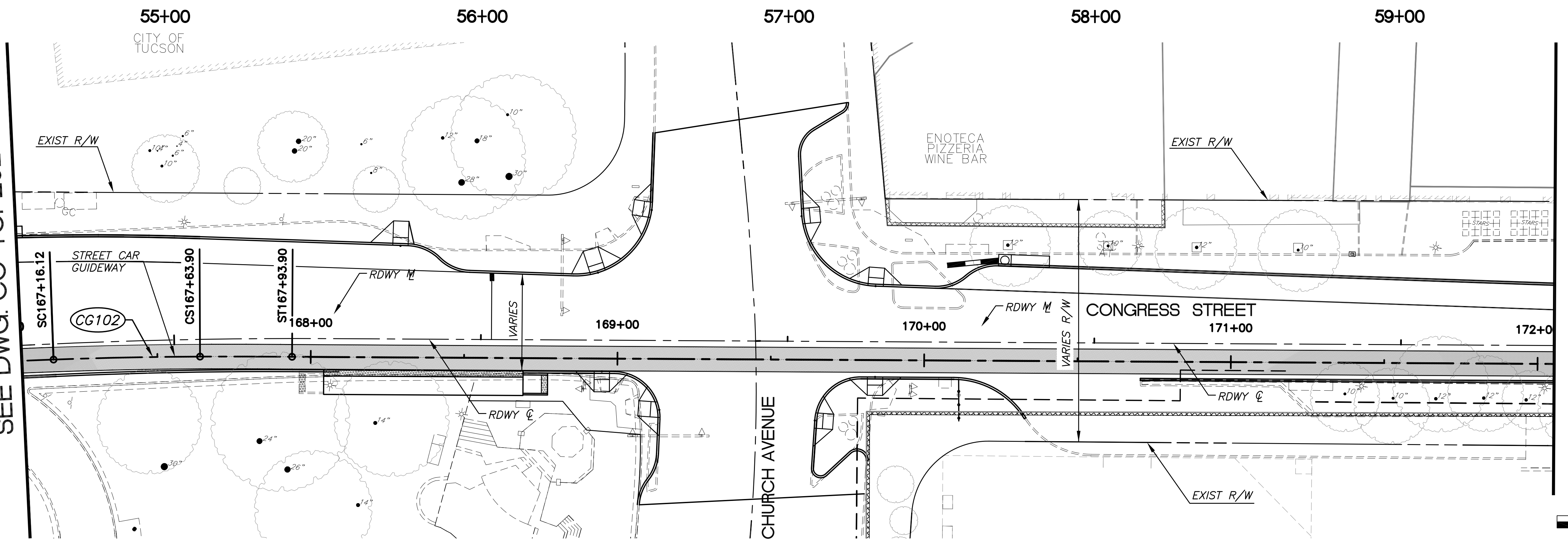
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 BLUE STAKE CENTER CALL COLLECT  
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	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TCPL02 SCALE: 1"=20' PLAN NO. I-2008-035

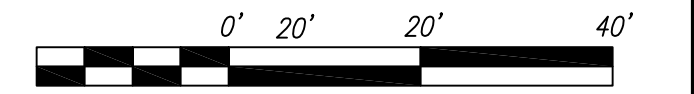
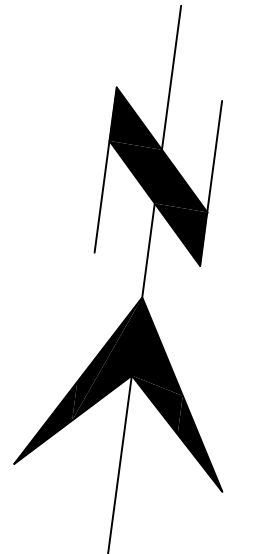
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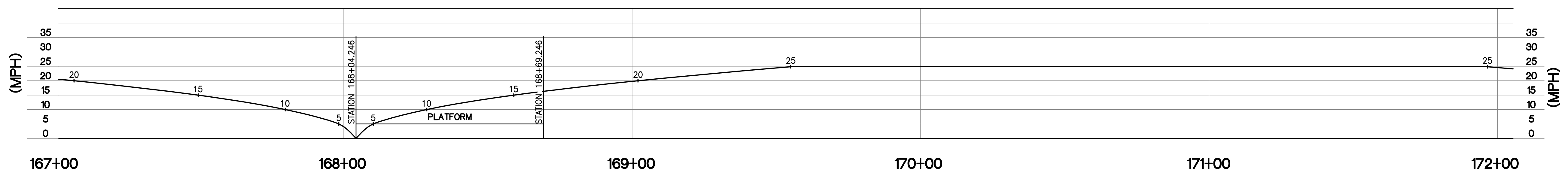
MATCHLINE STA 167+05.69  
SEE DWG. CC-TCPL02



MATCHLINE STA 172+05.43  
SEE DWG. CC-TCPL04



SC 167+16.12  
CG102  
R = 1500'  
V = 25 mph  
Ea = 0  
CS 167+63.90  
ST 167+93.90



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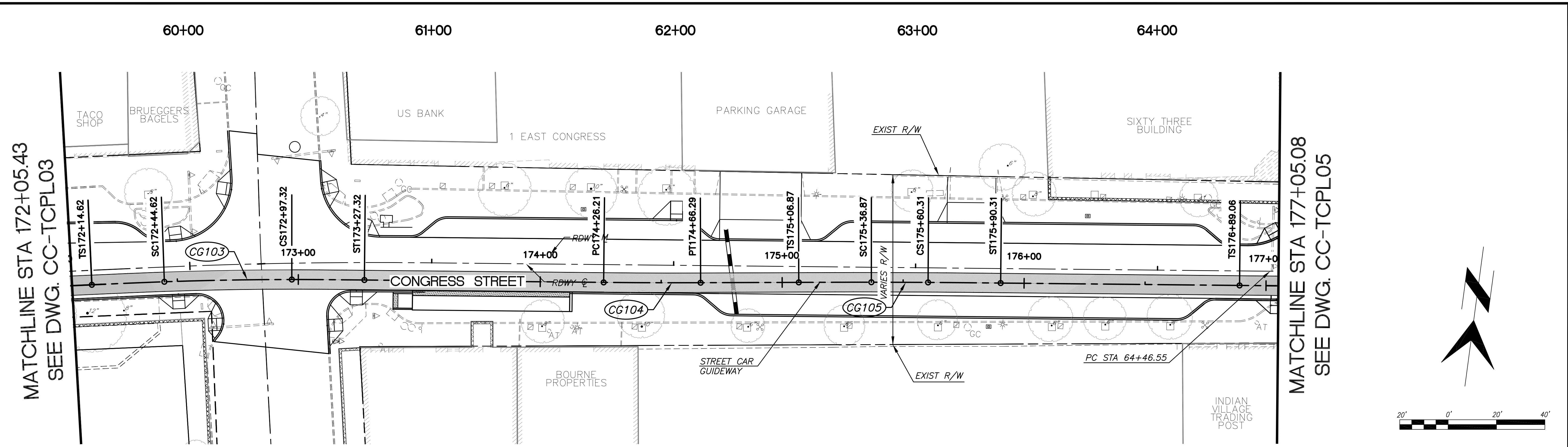
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<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		77 OF 184
		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TCPL03 SCALE: 1"=20' PLAN NO. I-2008-035

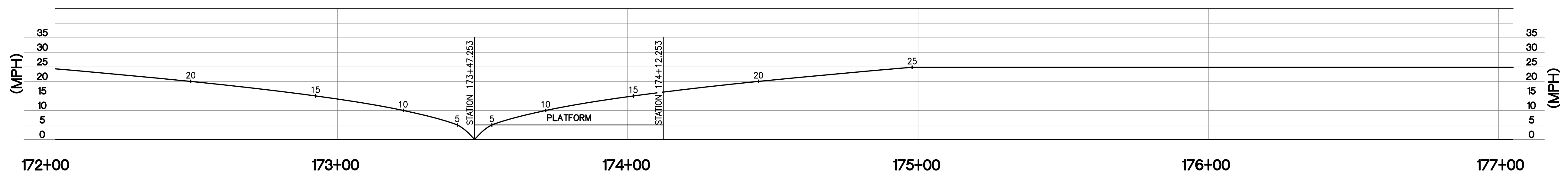
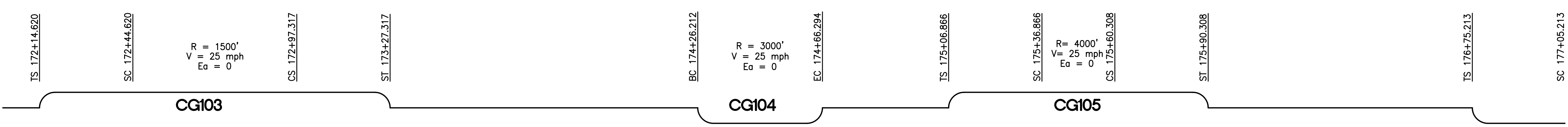
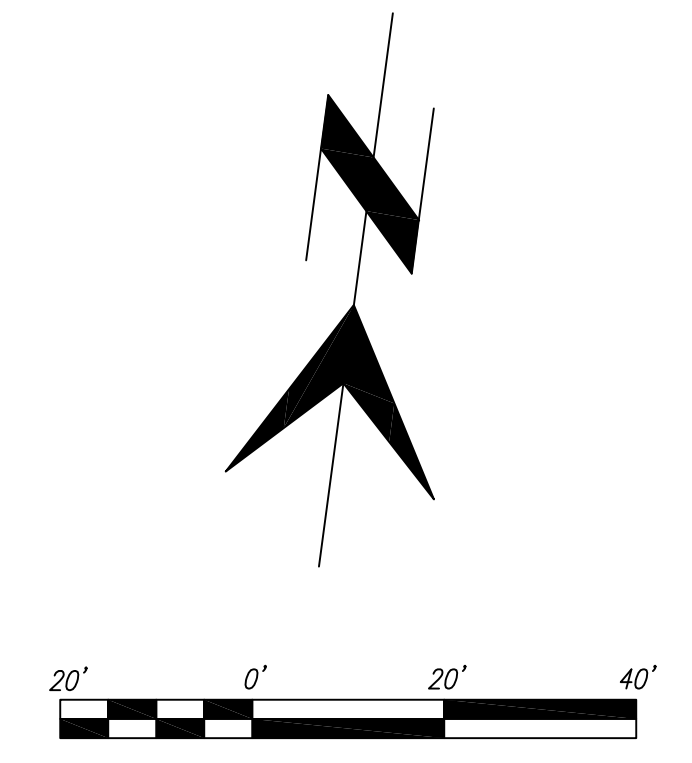
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 Station: - Mono.rdb



MATCHLINE STA 172+05.43  
SEE DWG. CC-TCPL03

MATCHLINE STA 177+05.08  
SEE DWG. CC-TCPL05



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65+00

66+00

67+00

68+00

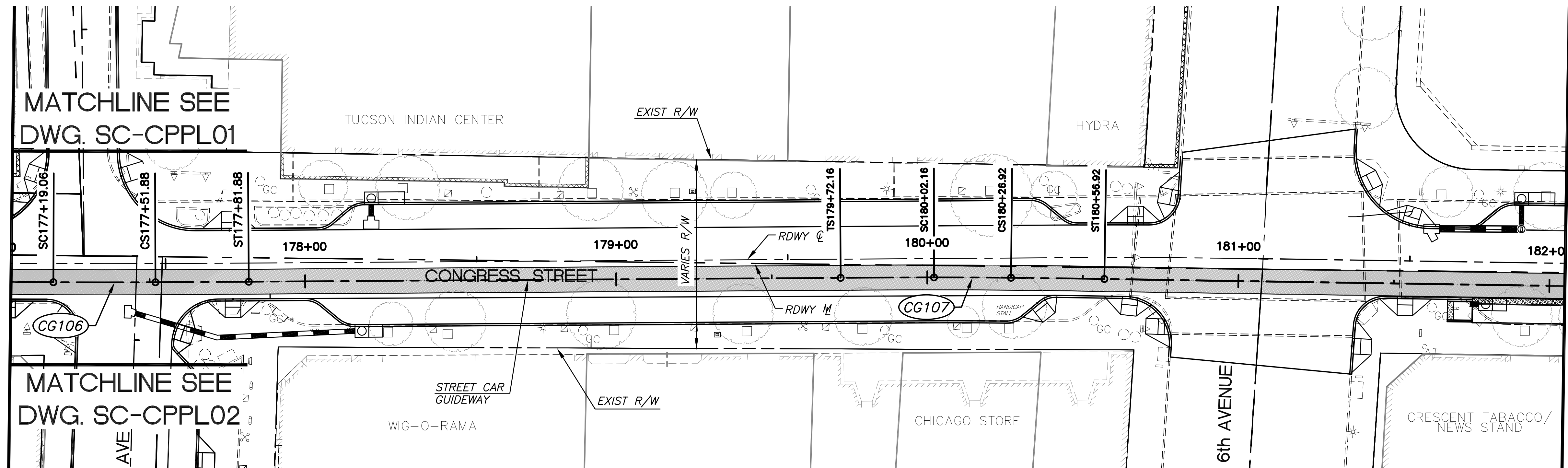
69+00

MATCHLINE STA 177+05.08  
SEE DWG. CC-TCPL04

MATCHLINE SEE  
DWG. SC-CPPL01

MATCHLINE SEE  
DWG. SC-CPPL02

MATCHLINE STA 182+05.02  
SEE DWG. CC-TCPL06



R = 6700'  
V = 25 mph  
Ea = 0

CS 177+65.730

ST 177+95.730

CG106

IS 179+53.534

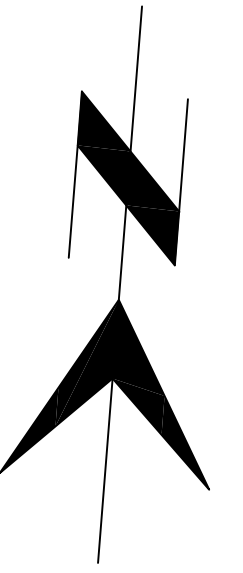
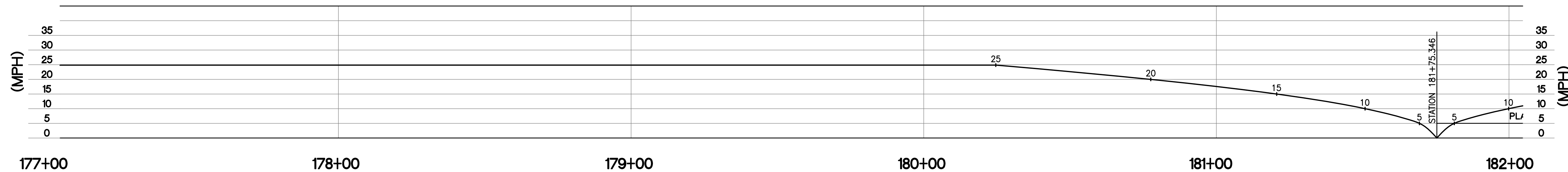
SC 179+83.534

R = 4200'  
V = 25 mph  
Ea = 0

CS 180+45.540

ST 180+75.540

CG107



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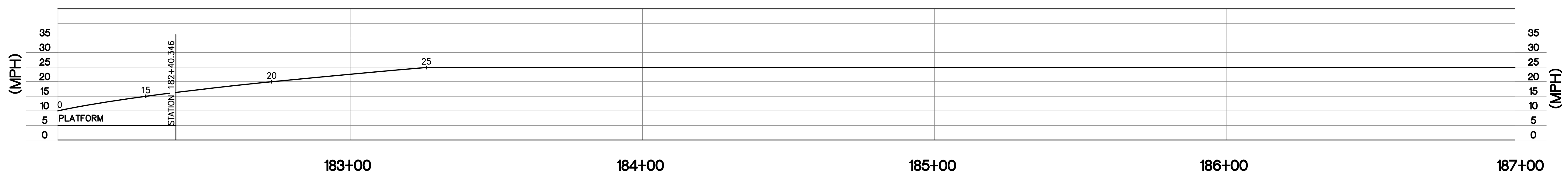
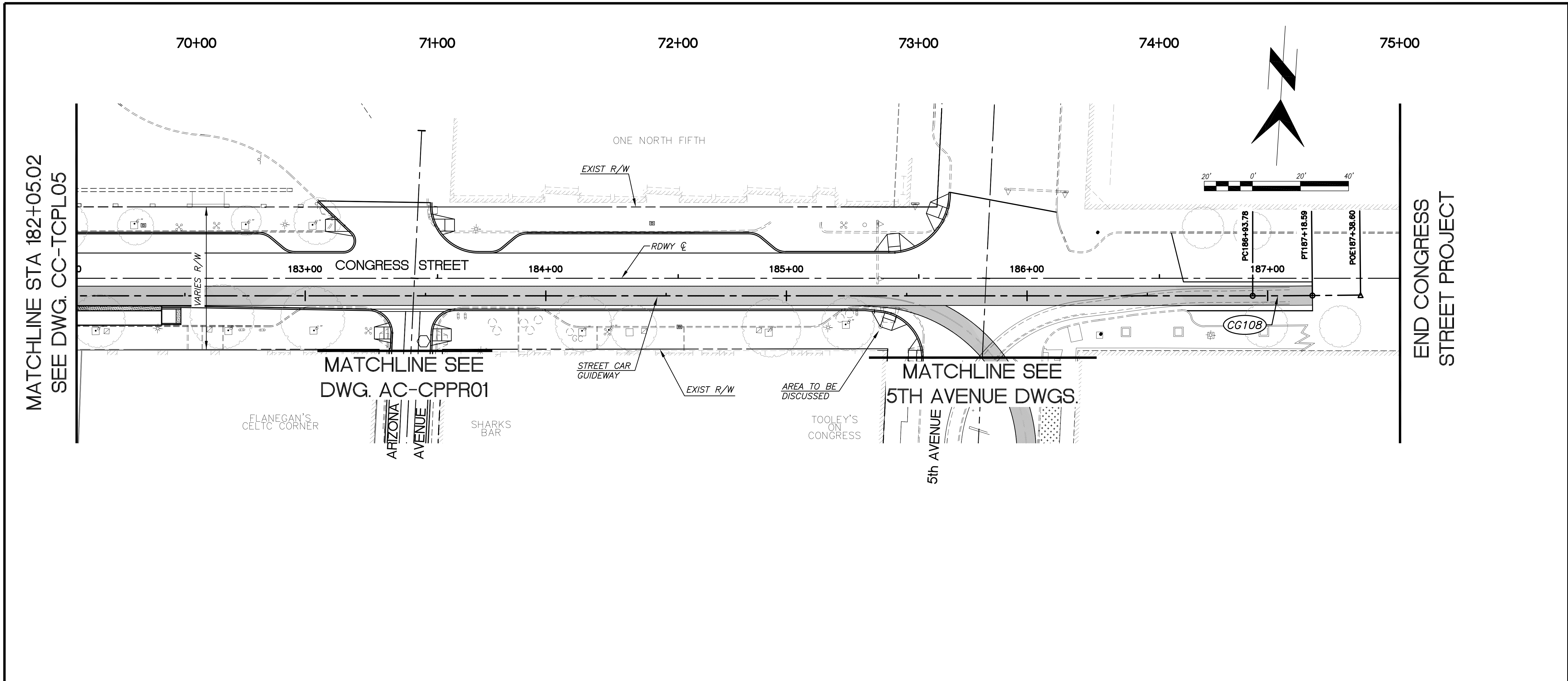
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	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TCPL05 SCALE: 1"=20' PLAN NO. I-2008-035

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<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		80 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-TCPL06 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

M:\C0204001 Drawings\10 Final\Congress\CC-TCPL06.dwg  
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 Stanek - Memo.dwg

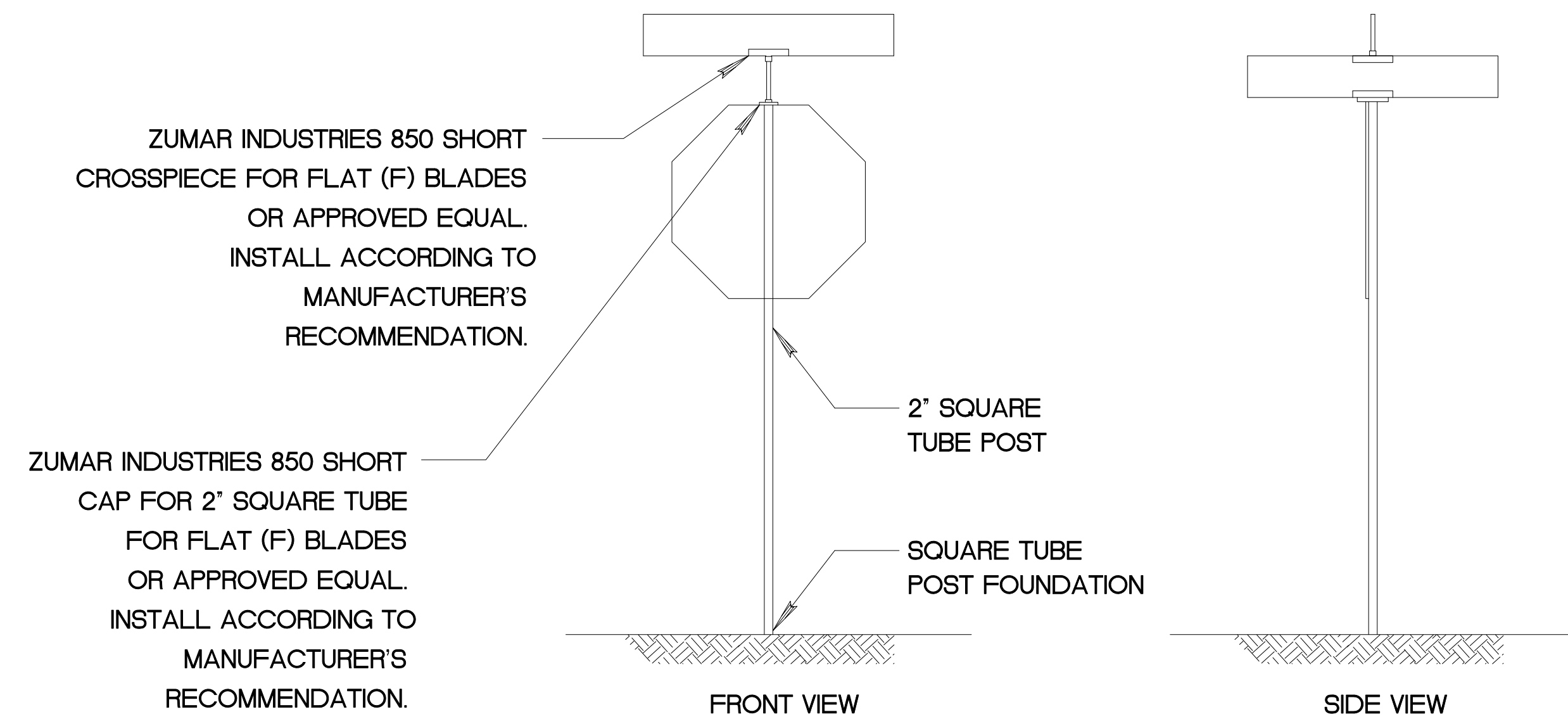


## PAVEMENT MARKING NOTES

- ALL PAVEMENT MARKINGS SHALL CONFORM TO PIMA COUNTY / CITY OF TUCSON (PC/COT) STANDARDS AND SPECIFICATIONS.
- THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE TRAFFIC ENGINEER.
- THE DESIGN SPEED FOR THE ROAD IS: 30mph. THE DESIGN VEHICLE IS: WB-40. THE POSTED SPEED LIMIT IS: 25mph.
- ALL LANE DIMENSIONS ARE FROM CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS AND MARKERS.
- THE FINAL LONGITUDINAL STRIPING SHALL BE 60 MIL (0.060") THICK HOT-SPRAYED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE TEMPORARY STRIPING WITH 14 TO 30 CALENDAR DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE, OR AS DIRECTED BY THE TRAFFIC ENGINEER. ALL OTHER MARKINGS SHALL BE APPLIED AT THE SAME TIME. TEMPORARY STRIPING SHALL BE PAINTED.
- 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 APPLICATION MAY BE USED IF APPROVED BY THE TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. IN TANGENT SECTIONS OF A ROAD WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE, CONTROL POINTS CAN BE SET AT 200 FEET APART. THE LAYOUT AND INSPECTION OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY THE TRAFFIC ENGINEER PRIOR TO THE APPLICATION OF MATERIALS.
- 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 JOINTS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE TRAFFIC ENGINEER BY SWEEPING AND AIR-JET BLOWING IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE TEMPERATURE SHALL NOT BE LESS THAN 50 DEGREES F. FOR THE PLACEMENT OF HOT SPRAYED THERMOPLASTIC STRIPING, AND 40 DEGREES F. FOR THE PLACEMENT OF RPMs.
- ALL RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
- AT INTERSECTION APPROACHES ON ROADWAYS WITH MEDIANS, TYPE C RPMs SHALL BE PLACED AS PER PC/COT STANDARDS OR AS DIRECTED BY THE TRAFFIC ENGINEER.
- 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.
- THE ENGINEER OF RECORD SHALL BE REQUIRED TO PRODUCE AS-BUILT STRIPING PLANS WITHIN 90 DAYS OF STRIPING COMPLETION.
- 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, 2002 VERSION.
- FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID FOR BY THE PROJECT OWNER/DEVELOPER.
- FINAL INSPECTION/ACCEPTANCE OF PAVEMENT MARKINGS SHALL BE PERFORMED BY THE TRAFFIC ENGINEER.
- PAINT CURB YELLOW AT LOADING ZONE AND BLUE AT HANDICAP PARKING SPACES.
- INSTALL RAISED PAVEMENT MARKERS AT MEDIAN NOSES PRE PC/COT PAVEMENT MARKING DESIGN MANUAL.

## SIGNING NOTES

- ALL SIGNS SHALL BE IN COMPLIANCE WITH THE 2003 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE 2002 EDITION OF THE PIMA COUNTY AND CITY OF TUCSON TRAFFIC SIGNING DESIGN MANUAL, THESE PLANS, AND THE SPECIAL PROVISIONS.
- SIGNS MAY BE MODIFIED AND LOCATION ADJUSTED TO FIT CONDITIONS AS DIRECTED BY THE ENGINEER.
- POST LENGTHS INDICATED ON SIGN SUMMARY SHEETS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL POST LENGTHS
- SHALL BE INSTALLED IN A CONCRETE FOUNDATION UNLESS OTHERWISE DIRECTED BY THE CITY TRAFFIC ENGINEER.
- ALL SIGN LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL SIGN LOCATIONS WITH THE TRAFFIC ENGINEER PRIOR TO THE INSTALLATION OF ALL SIGNS.
- ALL NEW REGULATORY SIGNS SHALL HAVE TYPE IV (HIGH INTENSITY PRISMATIC) SHEETING AND ALUMINUM BACKING, UNLESS OTHERWISE SPECIFIED.
- ALL EXISTING SIGNS TO BE REMOVED AS PART OF THIS PROJECT ARE TO BE DELIVERED TO THE CITY OF TUCSON SIGN SHOP AT 4004 S. PARK AVE. (791-3154). THE CONTRACTOR IS RESPONSIBLE FOR UNLOADING THE SALVAGED EQUIPMENT.
- THE DESIGN SPEED FOR THE ROAD IS 30 MPH, THE POSTED SPEED LIMIT FOR THE ROAD IS 25 MPH. SIGN PLACEMENT SHALL BE BASED ON THE POSTED SPEED LIMIT.
- ALL STATION AND OFFSETS REFERENCE CONGRESS ST. CONSTRUCTION CENTERLINE.
- SIGNS SHALL BE MOUNTED A MINIMUM OF 7 FEET FROM THE BOTTOM EDGE OF SIGN TO THE TOP OF PAVEMENT. FOR MULTIPLE SIGNS MOUNTED ON THE SAME POST, A MINIMUM CLEARANCE OF 6 FEET FROM THE BOTTOM OF SIGN TO TOP OF PAVEMENT SHALL BE PROVIDED.
- ALL POSTS SHALL BE TYPE 2P (2" SQUARE TUBE) POSTS WITH 2P POST FOUNDATIONS. FOUNDATION FOR 2P POSTS SHALL BE INSTALLED PER PC/COT DOT SIGNING STD. DTL. 8-2A.



TYPICAL STOP SIGN ASSEMBLY

180 WORKING DAYS BEFORE YOU DO  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
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USE OF THE INFORMATION CONTAINED IN  
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SPECIFIC PURPOSES FOR WHICH IT WAS  
INTENDED AND FOR OTHER THAN THE CLIENT  
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UNLESS EXPRESSLY PERMITTED IN WRITING BY  
ADVANCE BY STANTEC CONSULTING AND  
STANTEC CONSULTING SHALL HAVE NO  
LIABILITY TO ANY USE OF THIS INFORMATION  
WITHOUT THEIR WRITTEN CONSENT.

## STRIPING LEGEND

WS4 - 4" White Solid  
WS12 - 12" White Solid

## SIGNING AND PAVEMENT MARKING NOTES

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		81 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. CC-PMPL01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

Sign Number	Sign Code	Work				Offset (ft)	Legend	Panel						Ground Mounted					Overhead		Location / Remarks	
		New	Replace Panel	Overlay Panel	Relocate			See Remarks	Width (ft)	Height (ft)	Area (sq. ft.)	Type	Min Sheeting Type	Bid Item Number	Foundations	Posts			Structure Type	Number of Lights		
																Type	Total length (ft)	New Slipbases				Retrofit Slipbases
C1	W11-2																					
C2	GUIDE SIGN																					
C3	R4-7																					
C4	R3-2																					
C5	TRACKS																					
C6	SNS																					
	W11-2																					
	R10-7																					
C7	R3-5R																					
C8	W11-2																					
	W11-2																					
	R10-7																					
C9	W11-2																					
C10	PARKING																					
C11	R3-1																					
C12	W11-2																					
C13	(3)PARKING																					
	(3)PARKING																					
C14	W11-2																					
C15	PARKING																					
C16	W9-3A																					
C17	R1-1																					
C18	R3-2																					
C19	R2-1-25																					
	PARKING																					
C20	R9-3A																					
	R8-3A																					
C21	R2-1-25																					
C22	PARKING																					
C23	R6-1R																					
	R6-1R																					
C24	R3-8																					
C25	R3-8																					
	R6-1L																					
	R6-1R																					
C26	GUIDESIGN																					
C27	WARNING																					
	WARNING																					

- Notes:
- The engineer shall verify post lengths and elevations.
  - The engineer may shift a sign in order to achieve a more desirable location.
  - Quantities are approximate and for the contractor's information only.
  - Refer to PCDOT Sign Std. 5-3 for Sign Offset Clearances and Mounting Details.

Panel Types:  
RWM: Regulatory, Warning, or Marker  
F-DA: Flat-sheet aluminum with direct applied or silk-screened characters  
F-Dem: Flat-sheet aluminum with demountable characters  
Ext: Aluminum extrusions  
Incr: Aluminum sheet increment  
Over: Overhead (New overlaid extrusions)

Stringer Types:  
P: Square-tube post  
T: T-section (WT 3x6)

### SIGNING SUMMARY SHEET

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

82  
OF  
184



DRWN. BY T. RADDEMAN  
DSGN. BY T. RADDEMAN  
CHKD. BY K. NGUYEN

REF. CC-PMPLO2 SCALE: N.T.S.  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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BLUE STAKE CENTER  
CALL COLLECT

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 Sheet: - Mono.dwg

Sign Number	Sign Code	Work					Offset (ft)	Panel						Ground Mounted					Overhead		Location / Remarks
		New	Existing					Width (ft)	Height (ft)	Area (sq. ft.)	Type	Min Sheeting Type	Bid Item Number	Foundations	Posts			Structure Type	Number of Lights		
			Replace Panel	Overlay Panel	Relocate	See Remarks									Type	Total length (ft)	New Slipbases			Retrofit Slipbases	
C28	GUIDE SIGN																				
	GUIDE SIGN																				
	PARKING																				
	PARKING																				
C29	R9-3A																				
C30	R6-1L																				
C31	R6-1L																				
C32	PARKING																				
C33	PARKING																				
C34	GUIDE SIGN																				
C35	R6-1R																				
C36	PARKING																				
C37	R6-1R																				
C38	GUIDE SIGN																				
C39	R6-1R																				
C40	R6-1R																				
C41	R6-1L																				
C42	R6-1R																				
C43	PARKING																				
C44	GUIDE SIGN																				
	PARKING																				
C45	GUIDE SIGN																				
	PARKING																				
C46	PARKING																				
C47	R6-1R																				
C48	R6-1L																				
C49	R3-2																				
C50	R6-1R																				
C51	R9-3A																				
	R9-3A																				
C52	GUIDE SIGN																				
C53	(2)R9-3A																				
	(2)R9-3B																				
C54	R9-3A																				
	R9-3A																				
C55	R9-3A																				
	REGULATORY																				
	REGULATORY																				
C56	R6-1L																				
	R1-1																				
C57	R3-1																				
	PARKING																				

- Notes:
- The engineer shall verify post lengths and elevations.
  - The engineer may shift a sign in order to achieve a more desirable location.
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 F-DA: Flat-sheet aluminum with direct applied or silk-screened characters  
 F-Dem: Flat-sheet aluminum with demountable characters  
 Ext: Aluminum extrusions  
 Incr: Aluminum sheet increment  
 Over: Overhead (New overlaid extrusions)

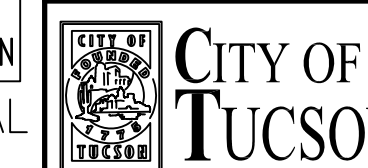
Stringer Types:  
 P: Square-tube post  
 T: T-section (WT 3x6)

### SIGNING SUMMARY SHEET

**P**RELIMINARY  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
 CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

83  
 OF  
 184



DRWN. BY T. RADDEMAN  
 DSGN. BY T. RADDEMAN  
 CHKD. BY K. NGUYEN

REF. CC-PMPLO3 SCALE: N.T.S.

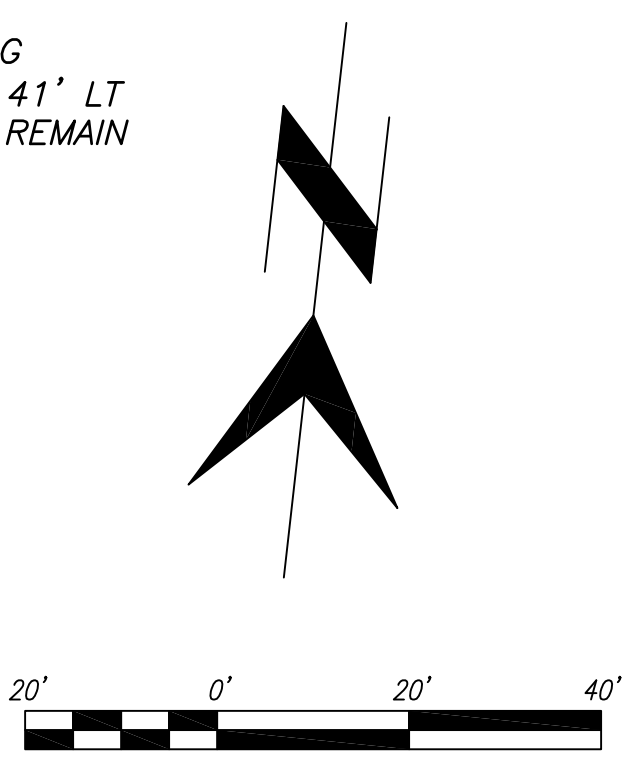
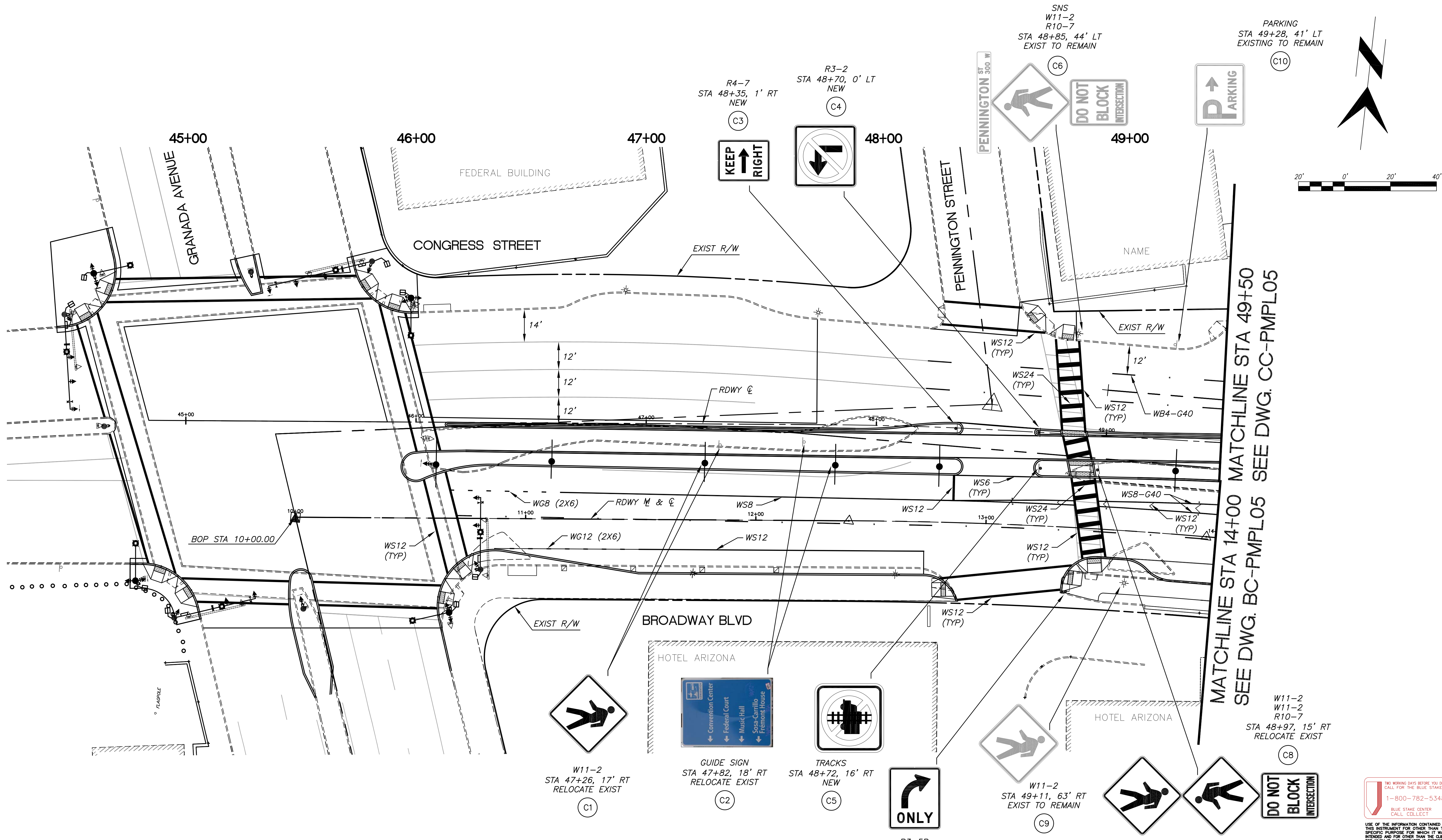
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1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT

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 Status: - Memo:RB



MATCHLINE STA 14+00 SEE DWG. BC-PMPL05  
 MATCHLINE STA 49+50 SEE DWG. CC-PMPL05

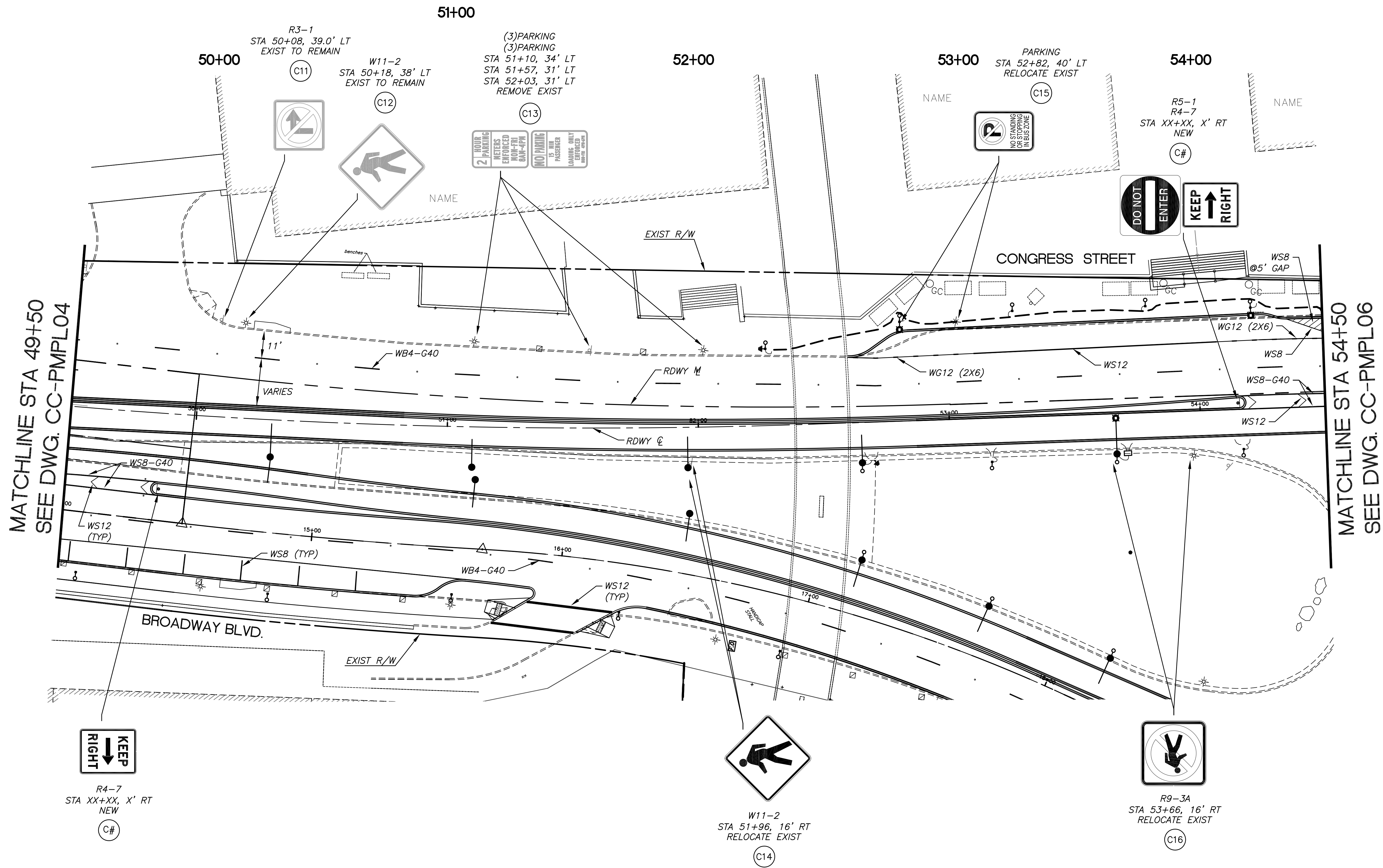
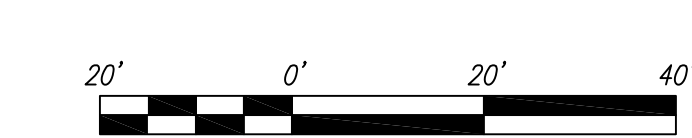
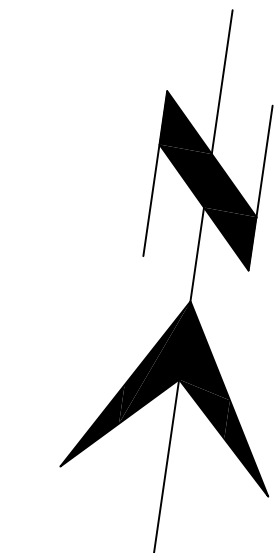
**SIGNING AND PAVEMENT MARKING PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		84 OF 184
	DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. CC-PMPL04 SCALE: 1"=20' PLAN NO. I-2008-035	

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140 WORKING DAYS BEFORE YOU DO CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER CALL COLLECT

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MATCHLINE STA 49+50  
SEE DWG. CC-PMPL04

MATCHLINE STA 54+50  
SEE DWG. CC-PMPL06

**KEEP RIGHT**  
R4-7  
STA XX+XX, X' RT  
NEW  
C#

**PEDESTRIAN**  
W11-2  
STA 51+96, 16' RT  
RELOCATE EXIST  
C14

**NO STANDING**  
R9-3A  
STA 53+66, 16' RT  
RELOCATE EXIST  
C16

**SIGNING AND PAVEMENT MARKING PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		85 OF 184
		DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. CC-PMPL05 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

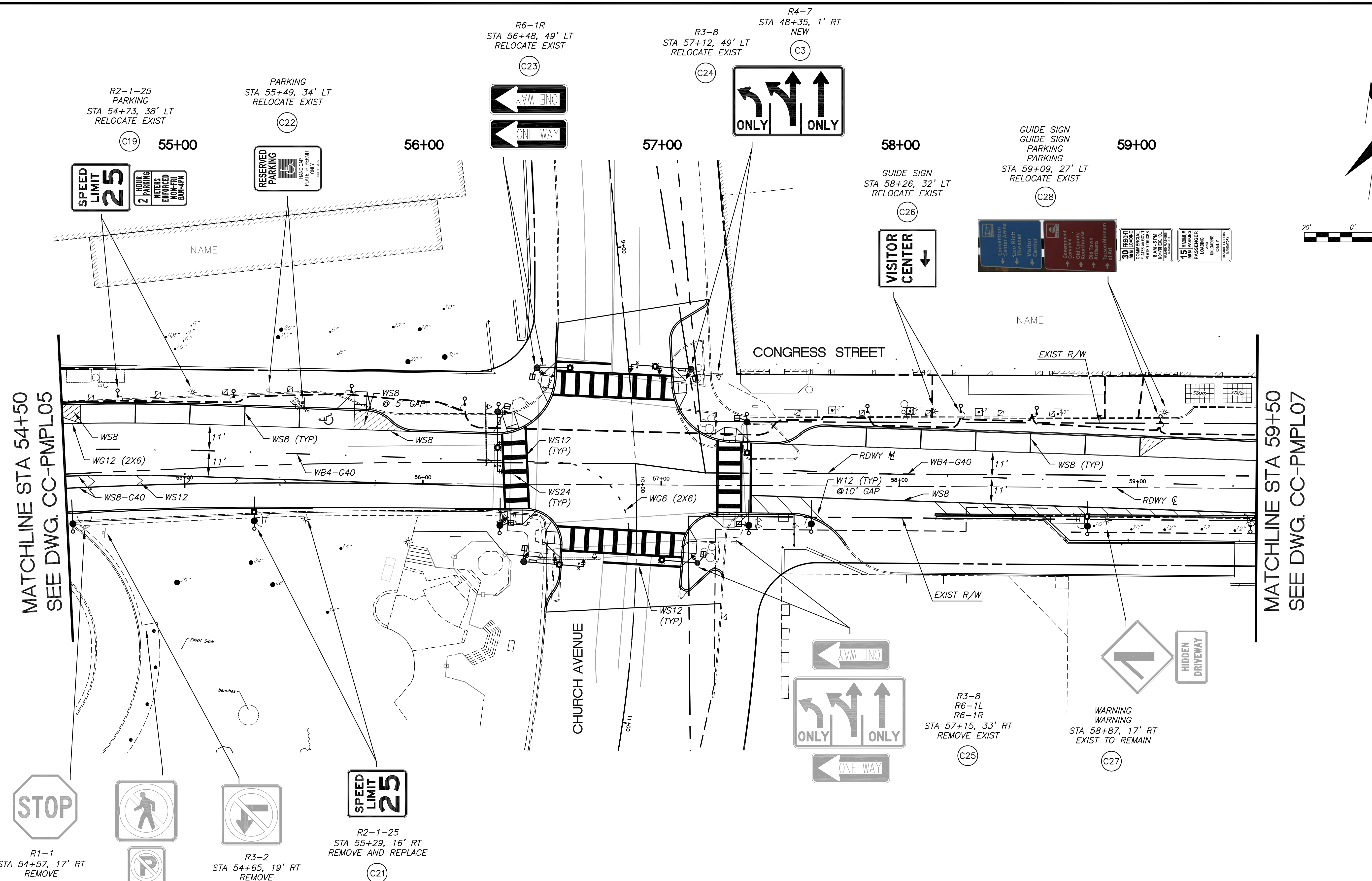
IF YOU KNOW YOU HAVE BLUE STAKES YOU DO NOT CALL FOR THEM.  
1-800-782-5348  
BLUE STAKE CENTER CALL COLLECT

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STA 50+00 TO 54+00  
 CONGRESS STREET  
 GRANADA AVE. TO 5TH AVE.  
 3/9/2009 3:53:59 PM  
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 Madsen, Doug  
 Stantec - Madsen, Doug

MATCHLINE STA 54+50  
SEE DWG. CC-PMPL05

MATCHLINE STA 59+50  
SEE DWG. CC-PMPL07



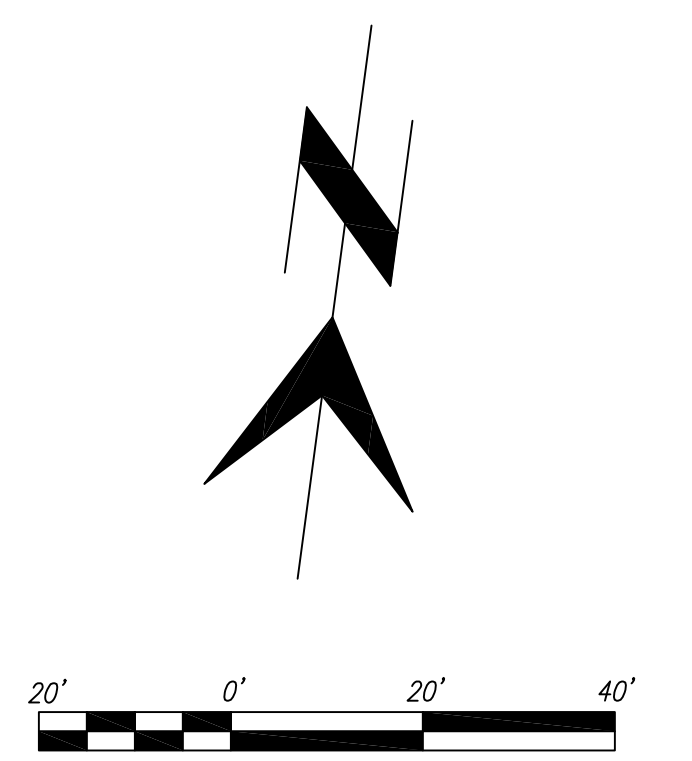
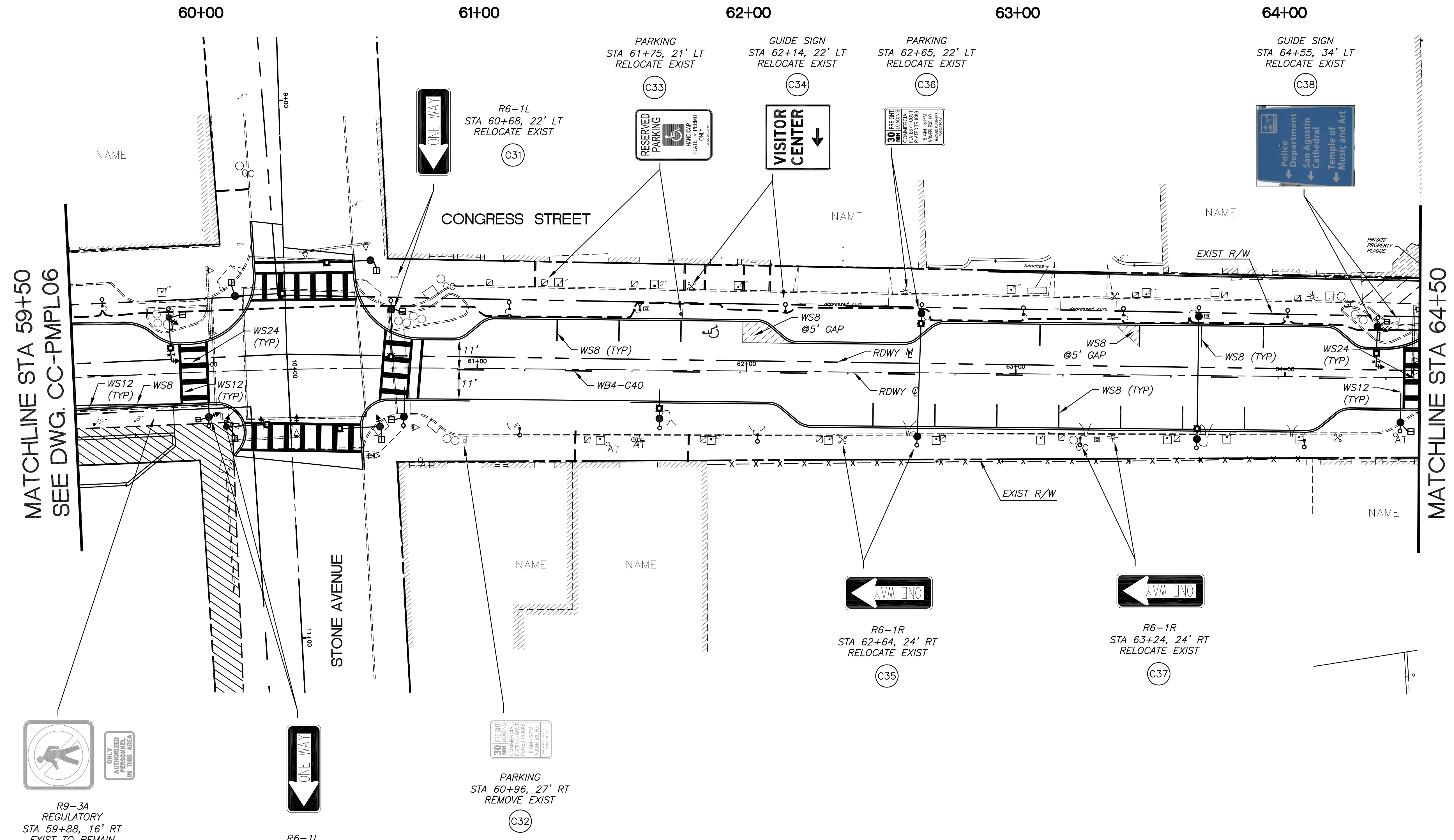
- C17**  
R1-1  
STA 54+57, 17' RT  
REMOVE
- C18**  
R3-2  
STA 54+65, 19' RT  
REMOVE
- C19**  
R2-1-25  
PARKING  
STA 54+73, 38' LT  
RELOCATE EXIST
- C20**  
R9-3A  
R8-3A  
STA 54+82, 61' RT  
REMOVE
- C21**  
R2-1-25  
STA 55+29, 16' RT  
REMOVE AND REPLACE
- C22**  
PARKING  
STA 55+49, 34' LT  
RELOCATE EXIST
- C23**  
R6-1R  
STA 56+48, 49' LT  
RELOCATE EXIST
- C24**  
R3-8  
STA 57+12, 49' LT  
RELOCATE EXIST
- C25**  
R3-8  
R6-1L  
R6-1R  
STA 57+15, 33' RT  
REMOVE EXIST
- C26**  
R4-7  
STA 48+35, 1' RT  
NEW
- C27**  
WARNING  
WARNING  
STA 58+87, 17' RT  
EXIST TO REMAIN
- C28**  
GUIDE SIGN  
GUIDE SIGN  
PARKING  
PARKING  
STA 59+09, 27' LT  
RELOCATE EXIST

**SIGNING AND PAVEMENT MARKING PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		86 OF 184
		DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. CC-PMPL06 SCALE: 1"=20' PLAN NO. I-2008-035

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 Status: - Madsen

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 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT  
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 IS PROHIBITED. UNLESS OTHERWISE NOTED IN  
 ADVANCE BY STATISTICAL CONSULTING AND  
 STATISTICAL CONSULTING SHALL HAVE NO  
 LIABILITY TO ANY USE OF THIS INFORMATION  
 WITHOUT THEIR WRITTEN CONSENT.



MATCHLINE STA 59+50  
SEE DWG. CC-PMPL06

MATCHLINE STA 64+50  
SEE DWG. CC-PMPL08

R9-3A  
REGULATORY  
STA 59+88, 16' RT  
EXIST TO REMAIN  
C29

R6-1L  
STA 60+00, 17' RT  
RELOCATE EXIST  
C30

PARKING  
STA 60+96, 27' RT  
REMOVE EXIST  
C32

R6-1L  
STA 60+68, 22' LT  
RELOCATE EXIST  
C31

PARKING  
STA 61+75, 21' LT  
RELOCATE EXIST  
C33

GUIDE SIGN  
STA 62+14, 22' LT  
RELOCATE EXIST  
C34

PARKING  
STA 62+65, 22' LT  
RELOCATE EXIST  
C36

R6-1R  
STA 62+64, 24' RT  
RELOCATE EXIST  
C35

R6-1R  
STA 63+24, 24' RT  
RELOCATE EXIST  
C37

GUIDE SIGN  
STA 64+55, 34' LT  
RELOCATE EXIST  
C38

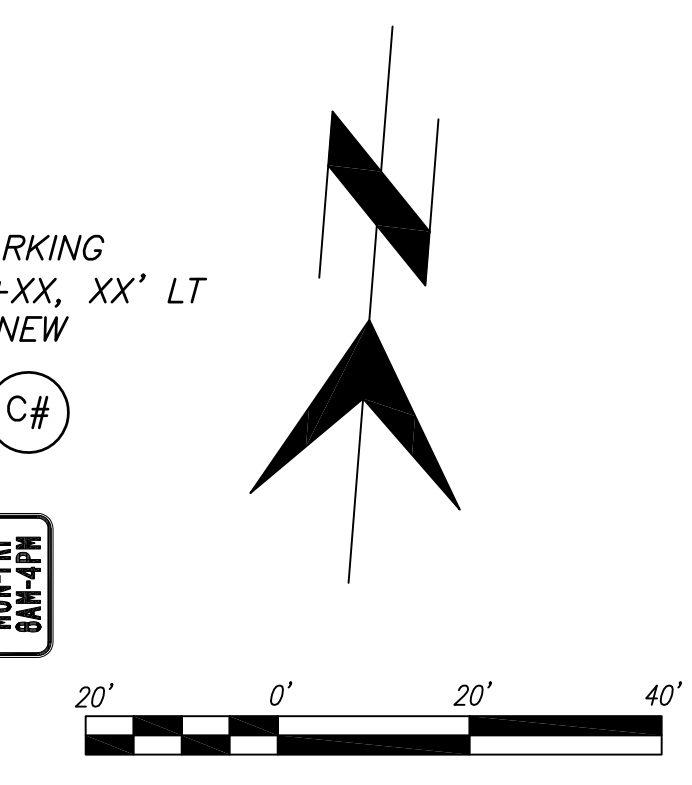
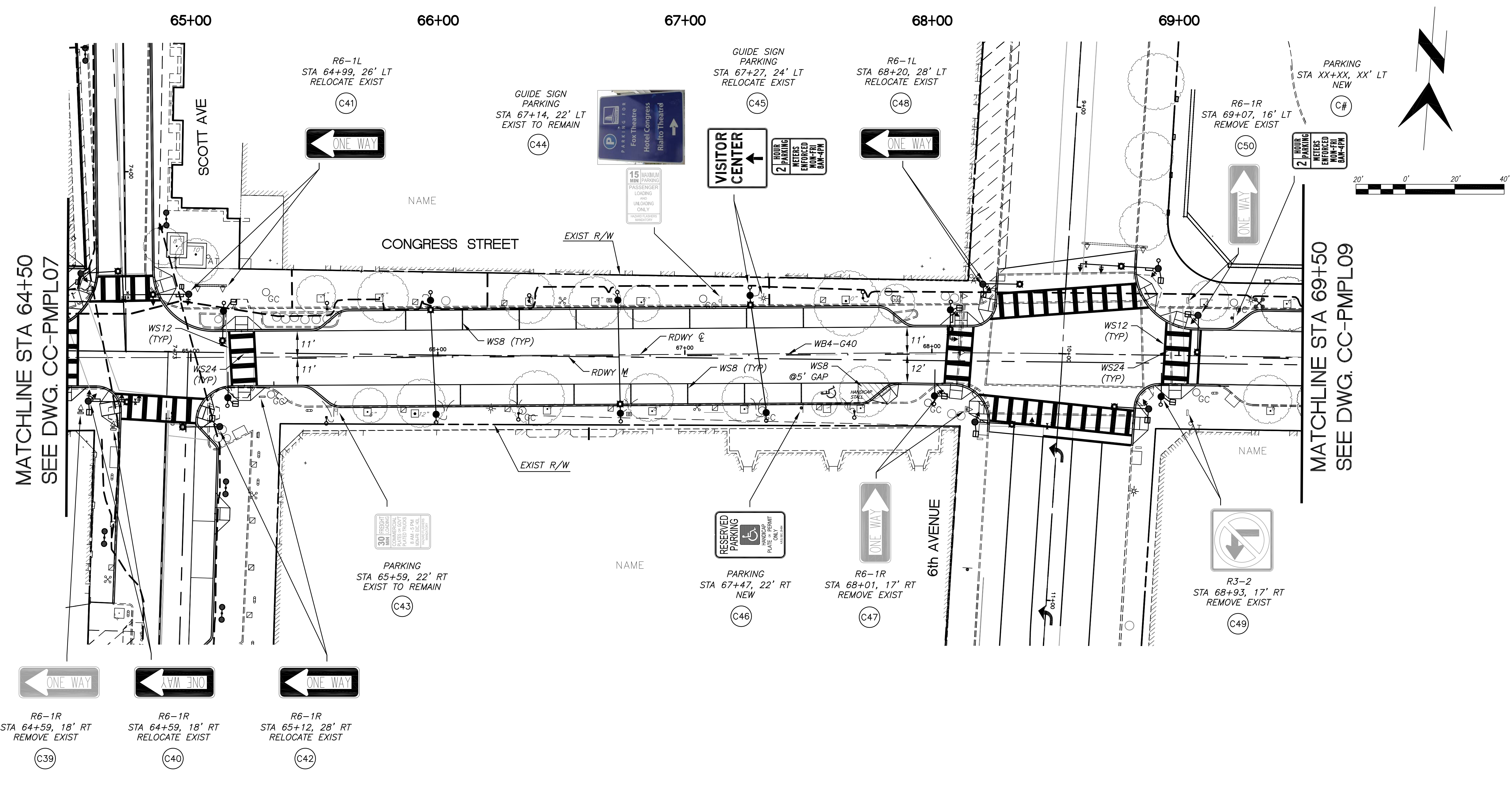
**SIGNING AND PAVEMENT MARKING PLAN**

<p><b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>87 OF 184</p>
	<p>DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN</p>	<p>REF. CC-PMPL07 SCALE: 1"=20' PLAN NO. I-2008-035</p>	

TWO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

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SEE DWG. CC-PMPL07

MATCHLINE STA 69+50  
SEE DWG. CC-PMPL09

R6-1R  
STA 64+59, 18' RT  
REMOVE EXIST  
C39

R6-1R  
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RELOCATE EXIST  
C40

R6-1R  
STA 65+12, 28' RT  
RELOCATE EXIST  
C42

PARKING  
STA 65+59, 22' RT  
EXIST TO REMAIN  
C43

RESERVED PARKING  
STA 67+47, 22' RT  
NEW  
C46

R6-1R  
STA 68+01, 17' RT  
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C47

R3-2  
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C49

**SIGNING AND PAVEMENT MARKING PLAN**

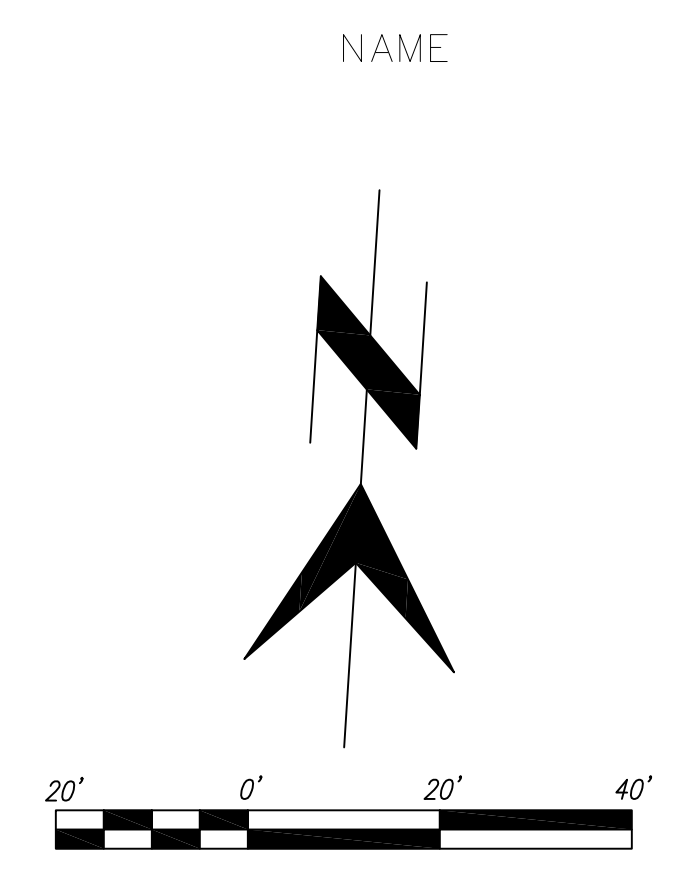
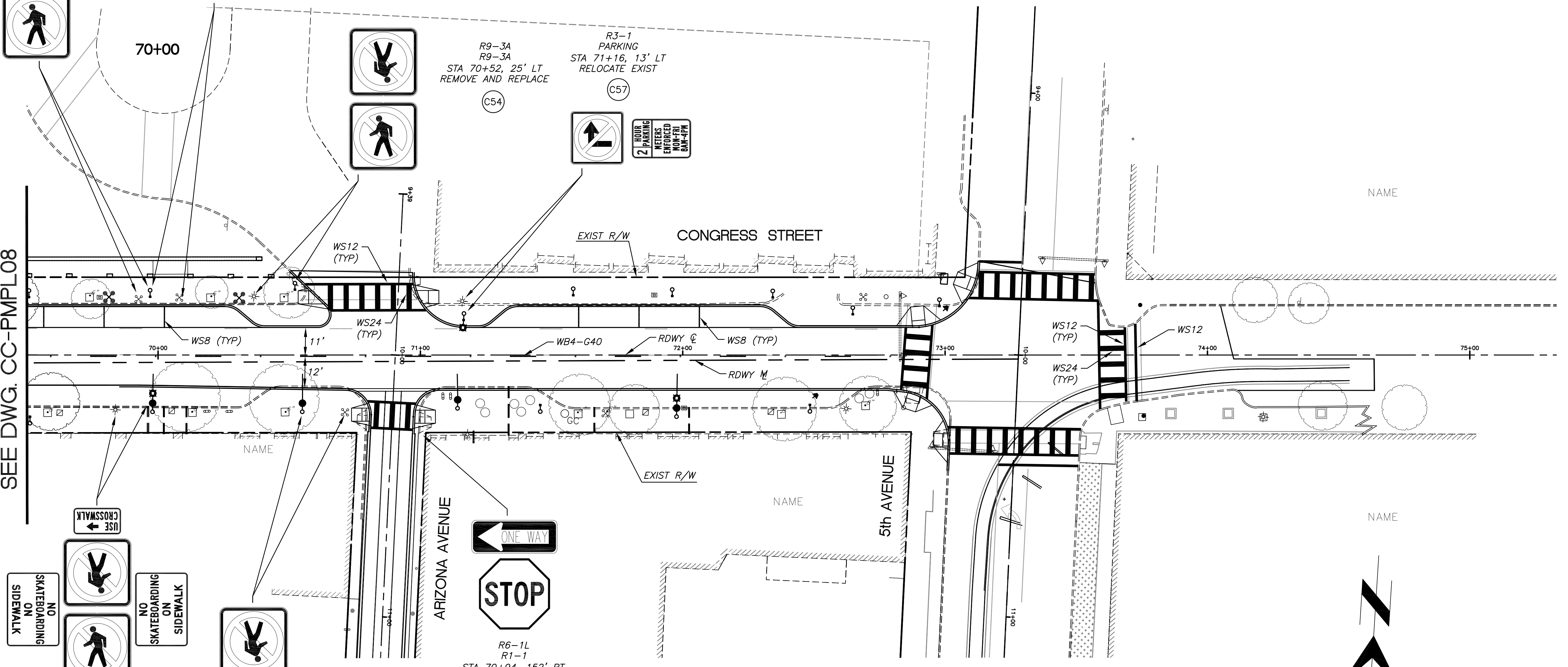
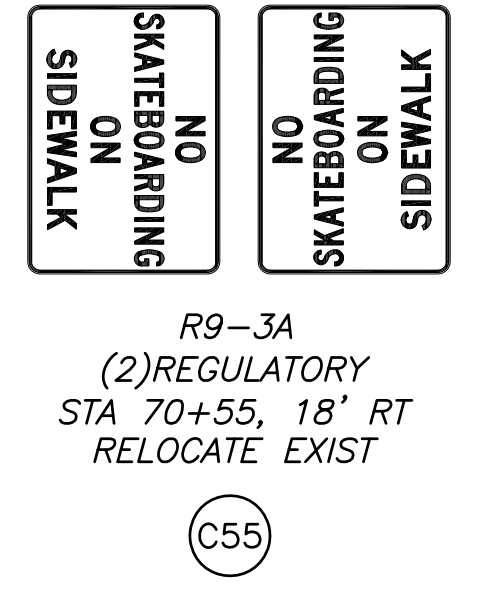
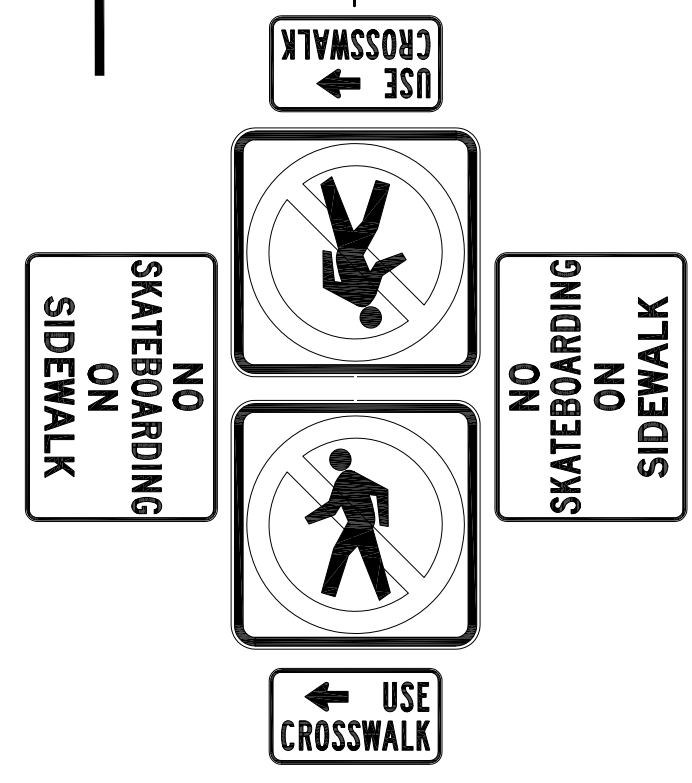
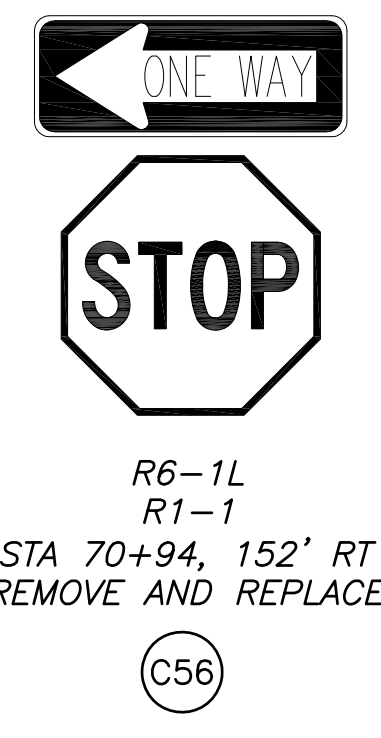
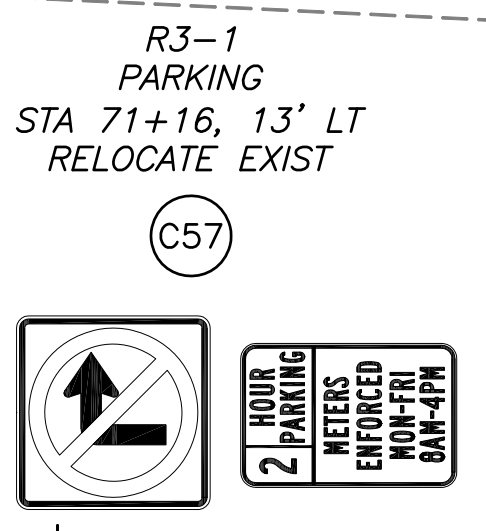
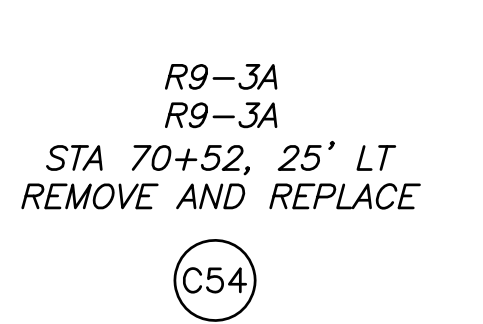
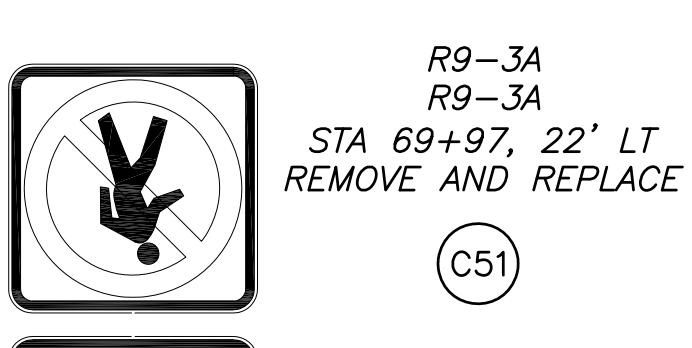
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	<p>DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN</p>	<p>REF. CC-PMPL08 SCALE: 1"=20' PLAN NO. I-2008-035</p>	

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<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		89 OF 184
		DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. CC-PMPL09 SCALE: 1"=20' PLAN NO. I-2008-035

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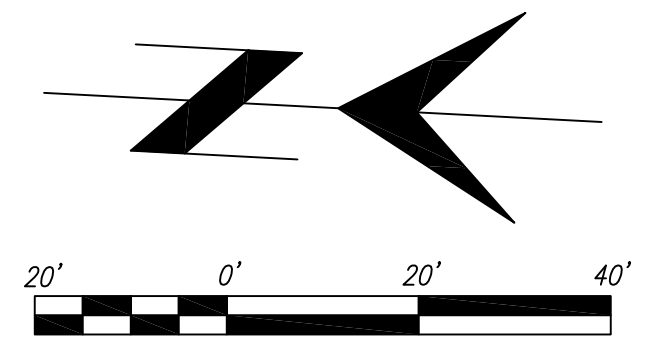
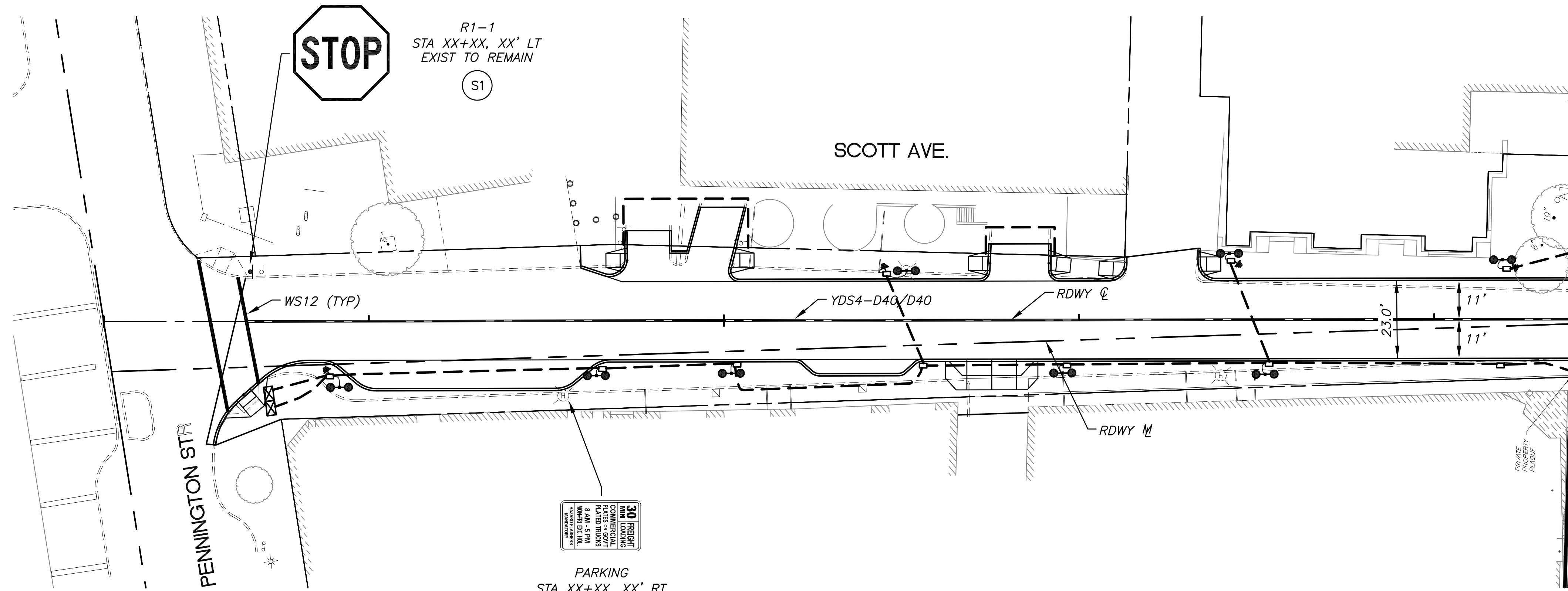
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MATCHLINE STA 7+39.20  
SEE DWG. SC-PMPL02

**30** PREFERRED  
COMMERCIAL  
PARKING  
8 AM - 5 PM  
MON-FRI  
NO PARKING  
EXCEPT  
LOADING UNLOADING

PARKING  
STA XX+XX, XX' RT  
EXIST TO REMAIN

(S2)

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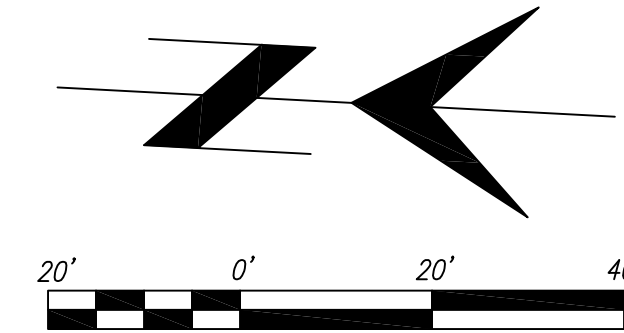
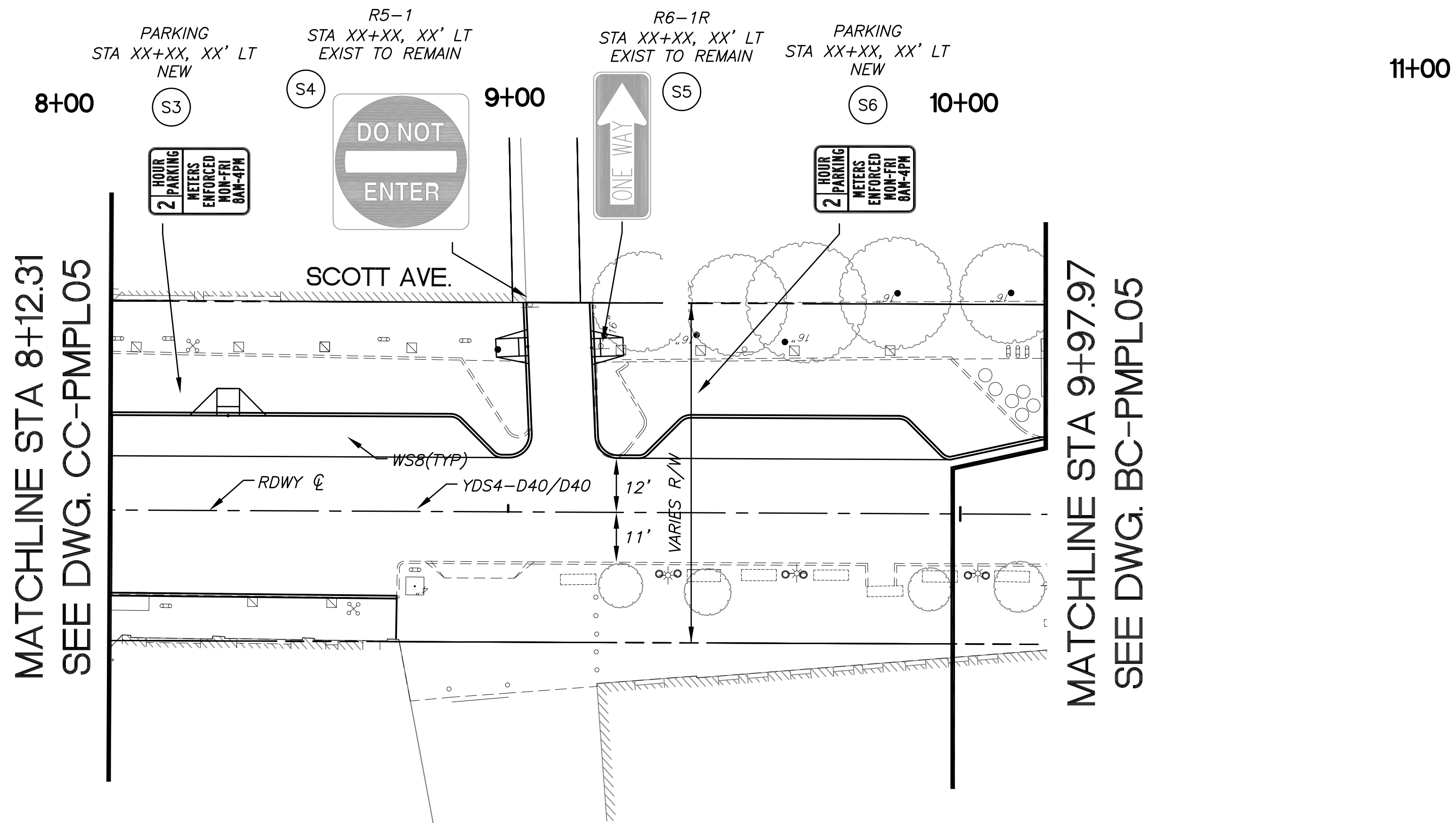
**SIGNING AND PAVEMENT MARKING PLAN**

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	CITY OF TUCSON	DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. SC-PMPL01 SCALE: 1"=20' PLAN NO. I-2008-035


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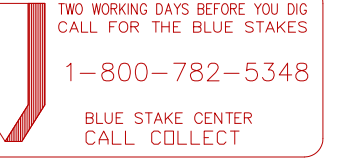
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**SIGNING AND PAVEMENT MARKING PLAN**

**P**RELIMINARY  
 03.10.09  
 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

 <b>CITY OF TUCSON</b>		DRWN. BY T. RADDEMAN	REF. SC-PMPL02 SCALE: 1"=20' PLAN NO. I-2008-035
		DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		91 OF 184	

NO.	DATE	REVISION	BY	CHKD.	APPR.



4+00

4+00

5+00

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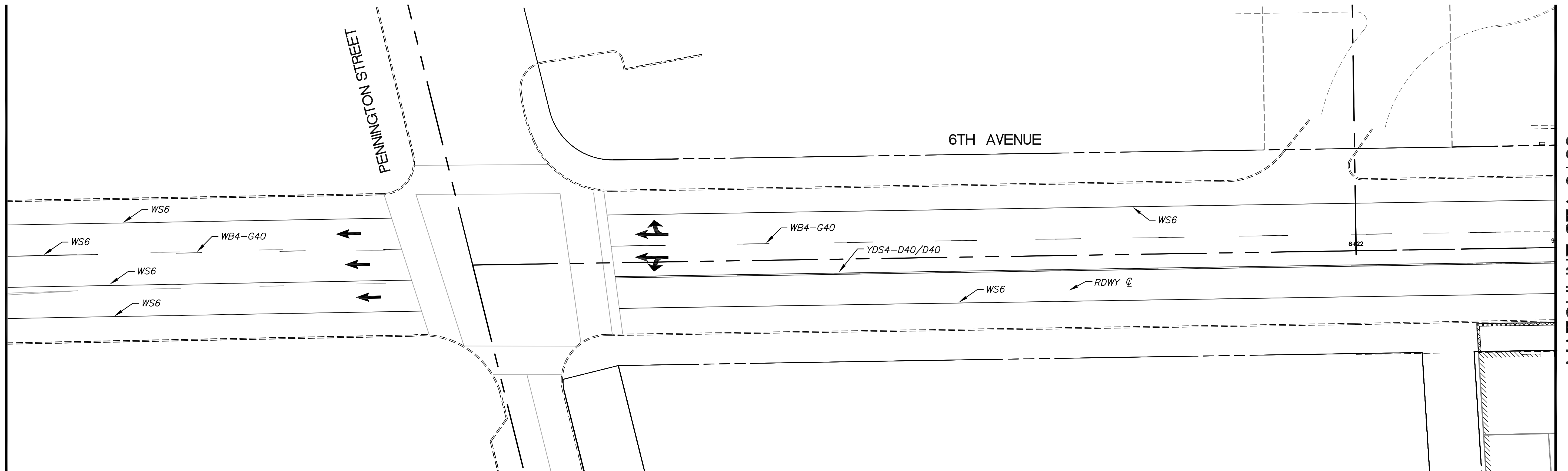
9+00

MATCHLINE STA 4+00

MATCHLINE STA 9+00

PENNINGTON STREET

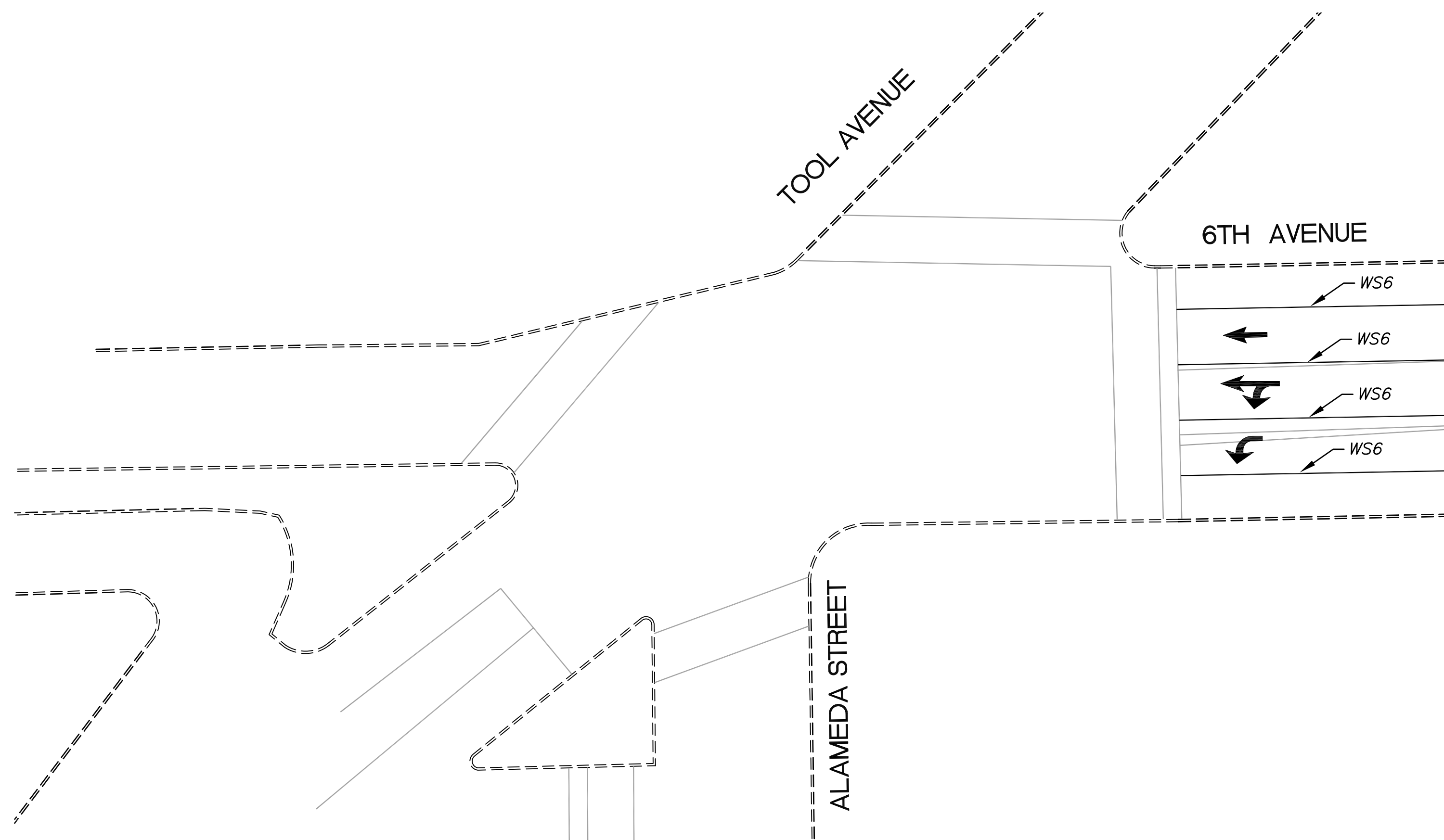
6TH AVENUE



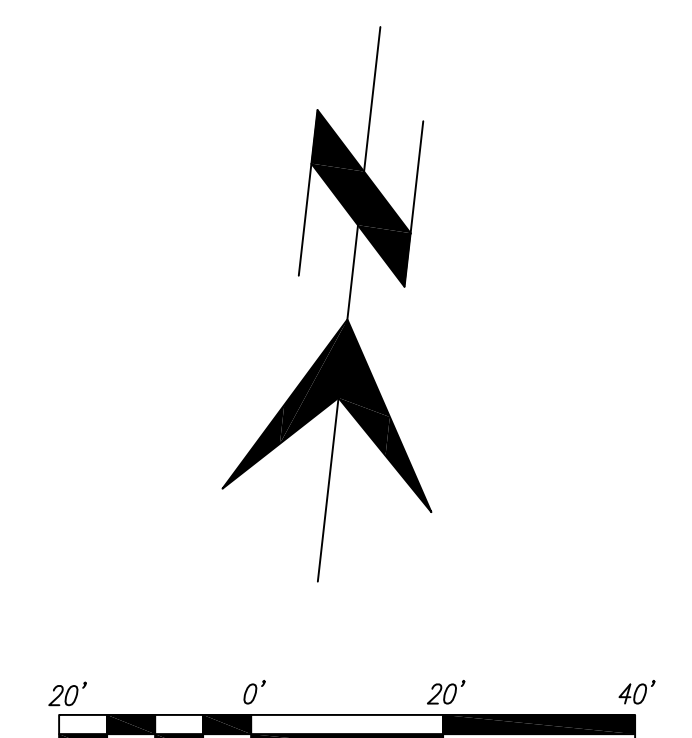
TOOL AVENUE

6TH AVENUE

MATCHLINE STA 4+00



ALAMEDA STREET



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**6TH AVE TEMPORARY TWO-WAY CONVERSION  
SIGNING AND MARKING PLAN SHEET**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		93 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY T. RADDAMAN DSGN. BY T. RADDAMAN CHKD. BY K. NGUYEN	REF. CC-MTPI05 SCALE: 1"=20' PLAN NO. I-2008-035

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## GENERAL NOTES

1. ALL EQUIPMENT/ MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON "STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" AND "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS", THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. ALL PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL MEET ADA REQUIREMENTS. THE SIGNS THAT SHALL BE USED ARE IDENTIFIED IN THE 2003 MUTCD AS R10-3B ON PAGE 2B-40.
3. THE EXACT LOCATION OF EACH NEW POLE FOUNDATION, PULL BOX, CONTROLLER CABINET FOUNDATION, AND ELECTRIC SERVICE PEDESTAL FOUNDATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
4. THE TOP OF THE POLE FOUNDATION SHALL BE LEVEL WITH THE FINISHED GRADE.
5. ONLY NEW CONDUIT AND CABLE SHALL BE INSTALLED.
6. ANY CONDUIT INSTALLED SHALLower THAN 30 INCHES BELOW FINISHED GRADE SHALL BE ENCASED IN CONCRETE PER SPECIFICATION NO. 732-3.01 (G).
7. ALL CONDUITS SHALL BE CLEANED BY COMPRESSED AIR AND A PROPERLY SIZED CONDUIT PISTON OR MANDREL PRIOR TO CABLE INSTALLATION AND PER PC/COT STD DTL 7713.
8. CONDUIT INSTALLED UNDER EXISTING PAVED DRIVEWAYS THAT ARE NOT SCHEDULED TO BE RECONSTRUCTED AS PART OF THIS PROJECT SHALL BE INSTALLED BY MEANS OF BORING.
9. ITS/ROADWAY LIGHTING SLEEVES SHALL BE INSTALLED UNDER ALL INTERSECTING SIDE STREETS AND DRIVEWAYS ON ALL MAJOR ROADWAY RECONSTRUCTION PROJECTS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
10. PULL BOXES SHALL NOT BE INSTALLED WITHIN CONCRETE CURB ACCESS RAMPS. IN ADDITION, ANY PULLBOXES INSTALLED BEHIND CURBS SHALL BE INSTALLED BETWEEN THE CURB AND THE PROPOSED/FUTURE SIDEWALK OR BEYOND THE PROPOSED/FUTURE SIDEWALK OR AS SHOWN ON THE PLANS. AN EXCEPTION TO THIS NOTE WOULD BE PULL BOXES INSTALLED IN A MEDIAN.
11. A 3/4 IN. x 10 FT. GROUND ROD SHALL BE INSTALLED IN THE NO. 7 PULL BOX (WITH THE EXTENSION) ADJACENT TO THE CONTROLLER CABINET. TWO GROUND ROD CLAMPS SHALL BE FURNISHED FOR GROUNDING THE GROUND WIRE.
12. THE HIGH VOLTAGE CABLES SHOULD BE SEPARATED FROM THE LOW VOLTAGE CABLES AS MUCH AS POSSIBLE.
13. POLES WITH PEDESTRIAN SIGNALS AND PUSH BUTTON STATIONS SHALL USE ONE 7-CONDUCTOR CABLE FOR BOTH THE PUSH BUTTON STATION AND THE PEDESTRIAN SIGNAL. THE OUTER CABLE JACKET SHALL BE REMOVED AT THE HAND HOLE HEIGHT. TWO CONDUCTORS SHALL BE ROUTED TO THE PUSH BUTTON STATION AND THE REMAINING CONDUCTORS SHALL BE ROUTED TO THE PEDESTRIAN SIGNAL.
14. THE CONTRACTOR IS TO MOUNT THE VIDEO DETECTION CAMERA ON THE END OF THE LUMINAIRE. CONTRACTOR TO PROVIDE CAMERA EXTENDER POLE FROM ECONOLITE WHEN REQUIRED.
15. THE CONDUCTORS FOR THE EMERGENCY VEHICLE PRE-EMPTION BEACON SHALL BE ROUTED TO THE TRAFFIC SIGNAL HEAD OF THE MAST ARM TIP. THE BEACON SHALL BE INSTALLED ON THE TOP OF THE TRAFFIC SIGNAL HEAD. THE EMERGENCY VEHICLE PRE-EMPTION SENSOR SHALL BE MOUNTED ON THE MAST ARM USING A SPECIAL CLAMP LOCATED A MINIMUM OF 6FT FROM THE MAST ARM TIP.
16. THE VIDEO POWER FROM POLEHAND HOLE TO CABINET SHALL BE A 6 PAIR, 18AWG CABLE TO POWER VIDEO FROM A SOURCE NOT CONNECTED TO THE PHOTO CELL. THE CONTRACTOR IS TO CONTACT PAUL BURTON AT 791-3191 PRIOR TO PURCHASE OR INSTALLATION OF VIDEO CONDUCTORS.
17. THE SPECIAL PROVISIONS INCLUDE INFORMATION REGARDING THE INSTALLATION OF FIBER OPTIC CONDUIT AND PULLBOXES.
18. THE TUCSON ELECTRIC POWER COMPANY PUBLIC IMPROVEMENT COORDINATOR (918-8359) SHALL BE CONTACTED BY THE CONTRACTOR TO VERIFY THE LOCATION OF THE ELECTRIC SERVICE CONNECTION AT EACH INTERSECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING THE TRENCH AND INSTALLING ANY NECESSARY SLEEVES UNDER SIDEWALKS OR DRIVEWAYS IN WHICH THE ELECTRIC SERVICE CABLE IN CONDUIT (CIC) IS TO BE INSTALLED BY TEP.
19. THE QWEST PUBLIC IMPROVEMENT COORDINATOR (884-2952) SHALL BE CONTACTED BY THE CONTRACTOR TO VERIFY THE LOCATION OF THE ELECTRIC SERVICE CONNECTION AT EACH INTERSECTION.
20. THE TRAFFIC SIGNAL OPERATION AT EXISTING SIGNALIZED INTERSECTIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
21. ALL 16 CONDUCTOR IMSA CABLE SHALL RUN FROM CONTROLLER TO POLE UNSPLICED. ALL 4 CONDUCTOR IMSA CABLES SHALL RUN FROM CONTROLLER TO DEVICE UNSPLICED.
22. CONTRACTOR TO PURCHASE AND INSTALL WIFI RADIO AT EACH INTERSECTION ON POLE SPECIFIED. CONTACT FRANCISCO LEYVA AT 791-4259 FOR SPECIFICATIONS. ETHERNET CABLE TO RUN UNSPLICED FROM CABINET TO RADIO.
23. STREET LIGHTING POLES ON SCOTT AVENUE (UNLESS OTHERWISE INDICATED ON THE PLANS) SHALL BE PRINCETON STYLE 16 FOOT HIGH ALUMINUM WITH A 45" TWIN CROSSARM AND IN CONFORMANCE WITH THE LIGHTING POLE DETAIL (SHEET CE-EP0NO2) AND THE SPECIAL PROVISIONS. POLE SHALL BE HOLOPHANE CATALOG NUMBER PT 1655X/18-CA/CMH WITH HOLOPHANE CROSS ARM PART NUMBER OUC90/2-CAAS AND SHALL MATCH EXISTING POLES ON SCOTT AVENUE BETWEEN BROADWAY AND 14TH STREET.
24. ALL LUMINAIRES ON SCOTT AVENUE SHALL BE IESNA TYPE III LIGHTING DISTRIBUTION, FULL CUT-OFF, 85 WATT, 240 VOLT, SINGLE PHASE INDUCTION FIXTURES, HOLOPHANE GLASSWORKS II BERN SERIES CATALOG NUMBER GB85QL243ASN TO MATCH EXISTING FIXTURES ON SCOTT AVENUE BETWEEN BROADWAY BOULEVARD AND 14TH STREET.
25. STREET LIGHTING AND WALKWAY LIGHTING POLE ON CONGRESS STREET SHALL CONFORM TO THE CONGRESS STREET WALKWAY AND STREET LIGHTING DETAIL SHEET CE-EPDT01 OF THE PLANS.
26. ALL PULL BOXES SHALL BE INSTALLED WITH A 6-INCH COLLAR PER PC/COT STD. DTL T106.
27. THE CONTRACTOR SHALL CONTACT BLUESTAKE (1-800-782-5348) 48 HOURS IN ADVANCE FOR VERIFICATION OF UNDERGROUND UTILITY LOCATIONS.
28. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER SHOWN HEREIN OR NOT AND SHALL PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF ANY DAMAGED UTILITY.


## RESPONSIBILITIES:

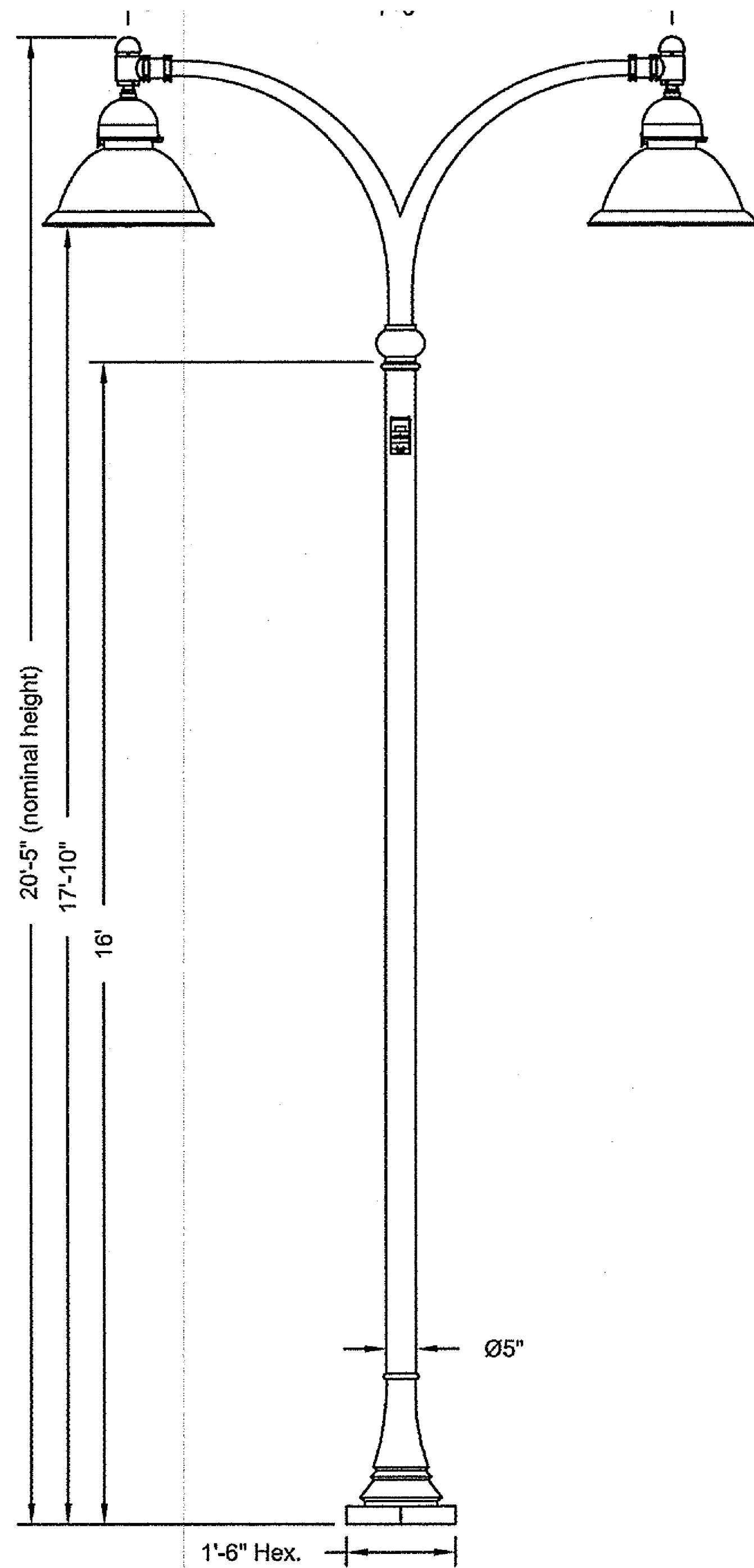
29. CONDUIT LOCATIONS SHOWN ON THE PLANS ARE SCHEMATIC. THE CONTRACTOR SHOULD LOCATE THE CONDUIT TO AVOID CONFLICTS WITH OTHER UTILITIES.
  30. AT POLE FOUNDATIONS CLOSE TO EXISTING SANITARY SEWER, CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO (2) FEET HORIZONTAL AND VERTICAL SEPARATION FROM OUTSIDE OF FOUNDATION TO OUTSIDE OF PIPE.
  31. ANY HOUSE CONNECTION SEWERS (HCS) ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED OR REROUTED AS THE SITUATION DICTATES, PER P.C.R.W.R.D. STANDARD DETAIL NO. WWM-404.
  32. MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN EXISTING GAS DISTRIBUTION FACILITIES SUCH AS GAS LINES AND THE NEW STREET LIGHTING CONDUIT, PULL BOXES, AND POLE FOUNDATIONS SHALL BE ONE (1) FOOT.
  33. ANY POLE FOUNDATIONS CLOSE TO EXISTING WATER MAINS MUST MAINTAIN A MINIMUM OF FIVE (5) FEET HORIZONTAL DISTANCE FROM OUTSIDE OF FOUNDATION TO THE OUTSIDE OF PIPE. MINIMUM HORIZONTAL SEPARATION BETWEEN EXISTING WATER MAINS AND ELECTRICAL CONDUIT IS FIVE (5) FEET FROM OUTSIDE OF WATER LINE TO OUTSIDE OF ELECTRICAL CONDUIT. MINIMUM VERTICAL SEPARATION IS ONE (1) FOOT FROM OUTSIDE OF WATERLINE TO OUTSIDE OF ELECTRICAL CONDUIT.
  34. THE CONTRACTOR IS ADVISED TO USE CAUTION WHEN INSTALLING CONDUIT RUNS IN THE VICINITY OF WATER SERVICE FACILITIES/APPURTENANCES (WATER METER BOXES, FIRE HYDRANTS, VALVE BOXES, ETC.) AND SHALL HAND DIG WHEN WORKING WITHIN 24" OF THE FACILITY.
  35. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 6" VERTICAL SEPARATION BETWEEN ELECTRICAL CONDUIT AND WATER SERVICE LINES.
  36. TREE REMOVAL OR PRUNING MUST FIRST BE APPROVED BY TDOT LANDSCAPE ARCHITECT GARY WITTEWAT AT 837-6618.
1. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING EQUIPMENT AND MATERIALS AS SPECIFIED ON THE PLANS: STEEL POLE ANCHOR BOLTS (WITH NUTS AND WASHERS), CONCRETE POLE FOUNDATIONS WITH REINFORCEMENT (WHERE SPECIFIED), TRAFFIC SIGNAL CONTROL CABINET(S) WITH CONTROLLER(S) AND ALL AUXILIARY EQUIPMENT, CONTROL CABINET CONCRETE FOUNDATION(S), CONCRETE PULLBOXES, 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), VIDEO DETECTION SYSTEM EQUIPMENT, VEHICLE DETECTION LOOPS, AND ALL OTHER APPURTENANCES NECESSARY FOR THE OPERATION OF THE TRAFFIC SIGNAL INSTALLATION(S), EXCEPT AS MODIFIED IN THE PLANS.
  2. THE CONTRACTOR SHALL DELIVER THE CONTROLLER CABINET(S) WITH THE CONTROLLER(S) AND AUXILIARY EQUIPMENT SPECIFIED IN THE PLANS TO THE TDOT MAINTENANCE YARD. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH COT REPRESENTATIVE RICK RIZZOLI AT 520-791-3191, 48 HOURS IN ADVANCE OF PLANNED DELIVERY. THIS SHALL OCCUR A MINIMUM OF TWO WEEKS PRIOR TO INSTALLATION(S) AT THE INTERSECTION(S). THE CONTRACTOR SHALL PICKUP AND TRANSPORT THE CONTROLLER CABINET(S) FROM THE TDOT MAINTENANCE YARD TO THE INTERSECTION(S) AFTER THE TDOT STAFF HAS PROPERLY TESTED THE EQUIPMENT AND APPROVED IT FOR INSTALLATION.
  3. THE CONTRACTOR SHALL INSTALL EACH TRAFFIC CONTROLLER CABINET ON ITS FOUNDATION AND ROUTE ALL OF THE CONDUCTORS INTO THE CONTROLLER CABINET. THE TDOT STAFF SHALL TERMINATE THE CONDUCTORS IN THE CONTROLLER CABINET.
  4. THE CONTRACTOR SHALL CAREFULLY DISASSEMBLE AND SALVAGE ALL EXISTING TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT THAT IS NOT TO REMAIN OR BE RELOCATED. ALL OF THE EQUIPMENT SHALL BE RETURNED TO THE TDOT MAINTENANCE YARD. THE EQUIPMENT SHALL BE UNLOADED BY THE CONTRACTOR. CONTACT RICK RIZZOLI, AT 520-791-3191 AT LEAST 48 HOURS PRIOR TO DELIVERING THE EQUIPMENT.

## LIGHTING GENERAL NOTES

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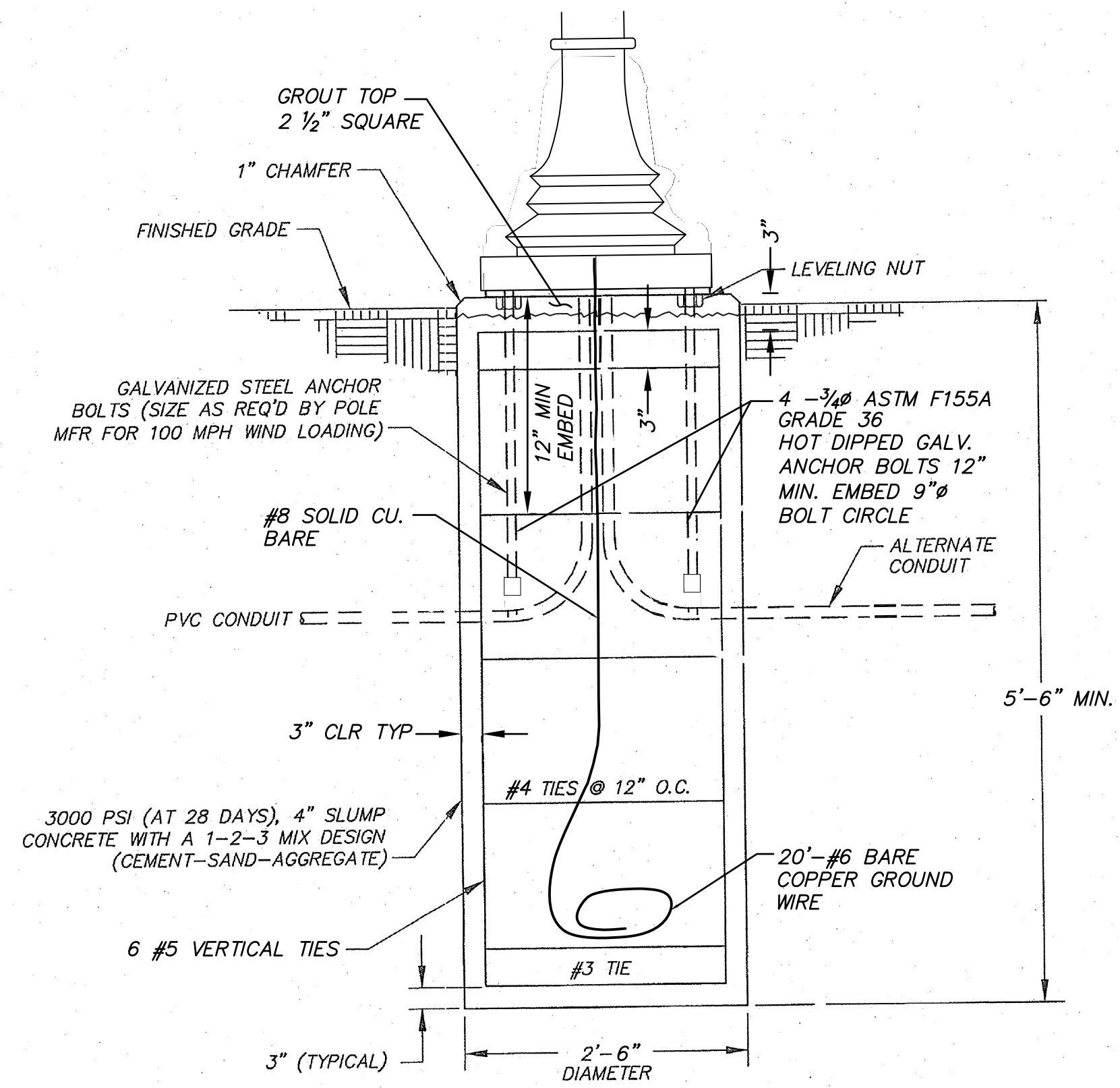
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	 CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-EPGN01 SCALE: _____ PLAN NO. I-2008-035



(SEE SPECIAL PROVISIONS FOR DETAILS)

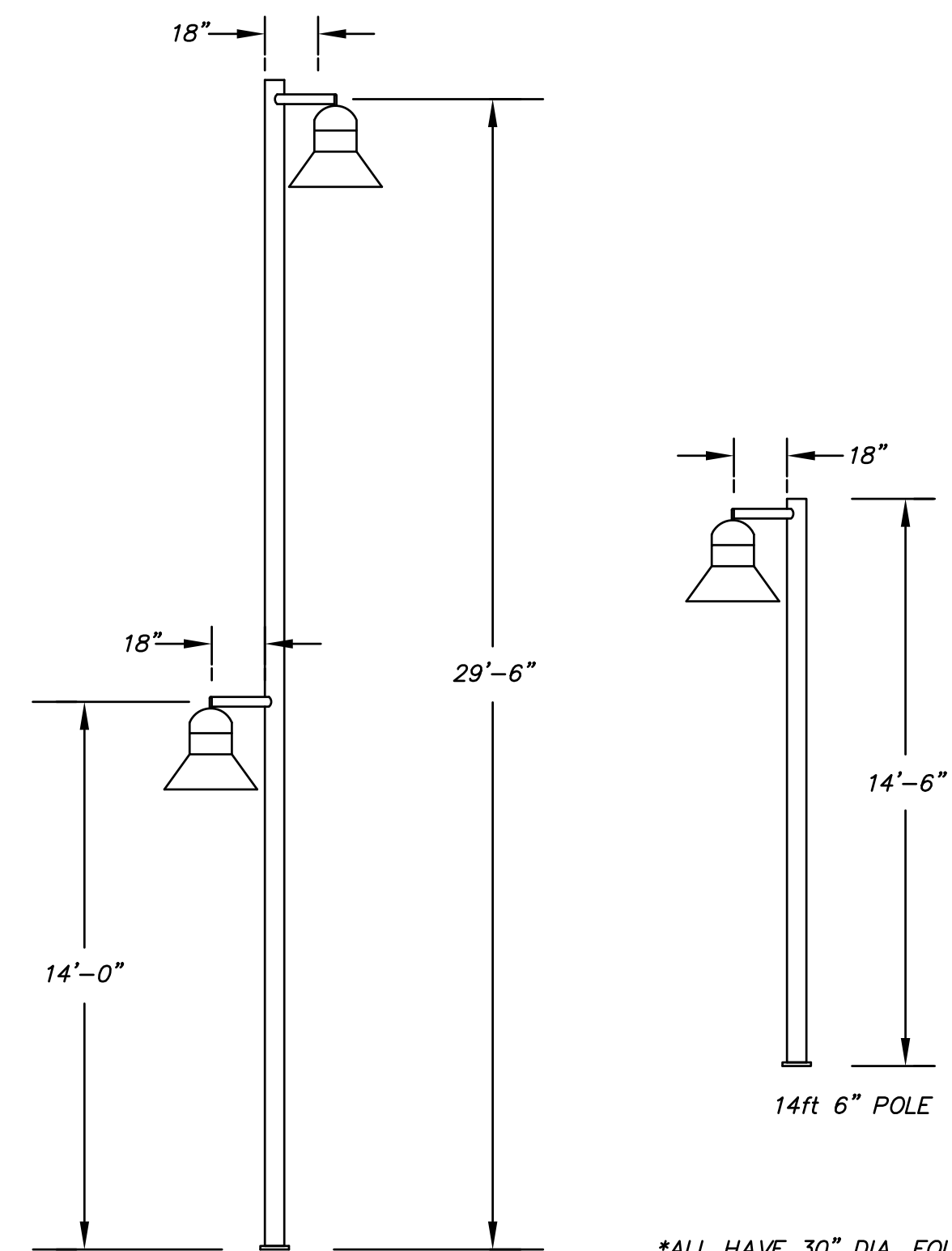
**SCOTT AVENUE LIGHTING POLE, CROSS ARM, AND LUMINAIRE**

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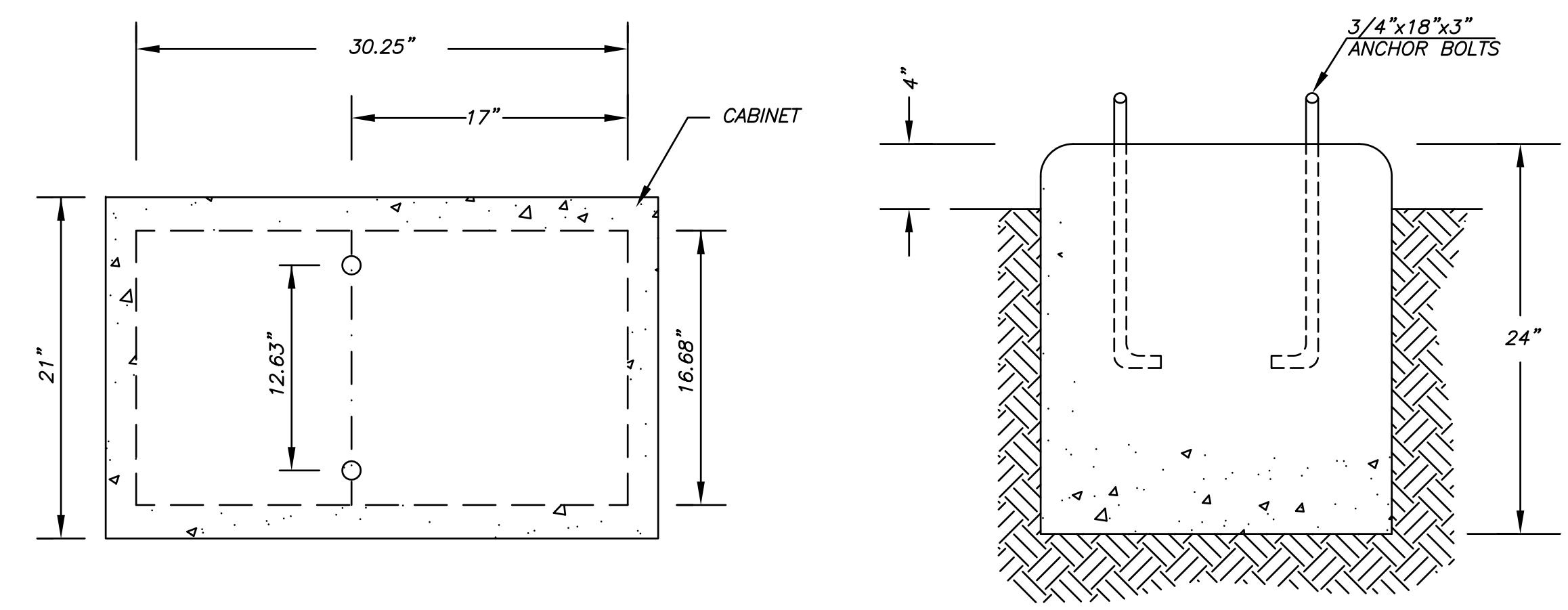
**SCOTT AVENUE POLE FOUNDATION DETAIL**

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**CONGRESS STREET WALKWAY AND STREET LIGHTING POLE (STEEL TAPERED)**

NTS



**FOUNDATION AND PAD FOR 60M CONTROL CABINET**

NTS

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TWO WORKING DAYS BEFORE YOU DIG CALL FOR THE BLUE STAKES

1-800-782-5348

BLUE STAKE CENTER CALL COLLECT

**LIGHTING DETAILS**

**P** RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT**  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

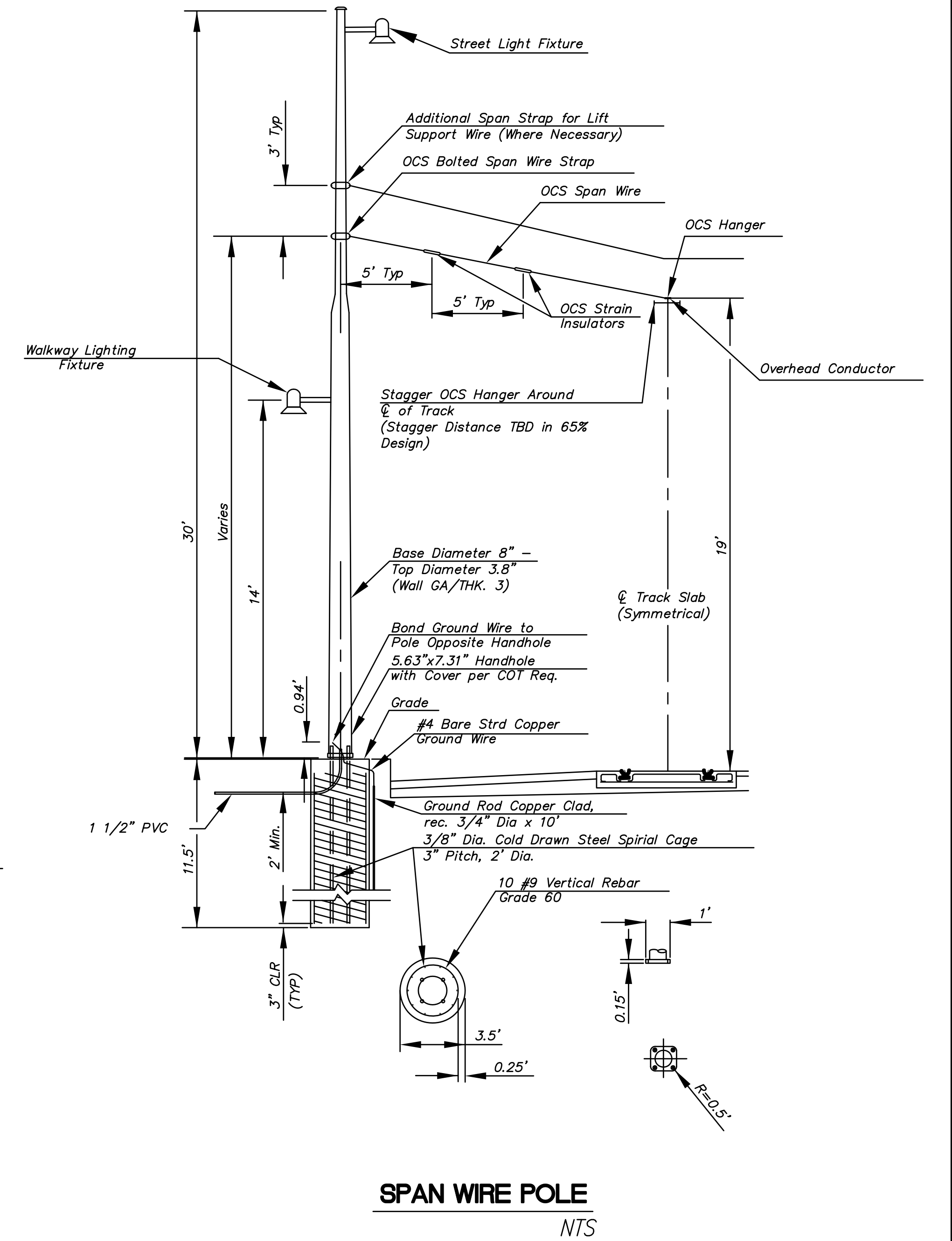
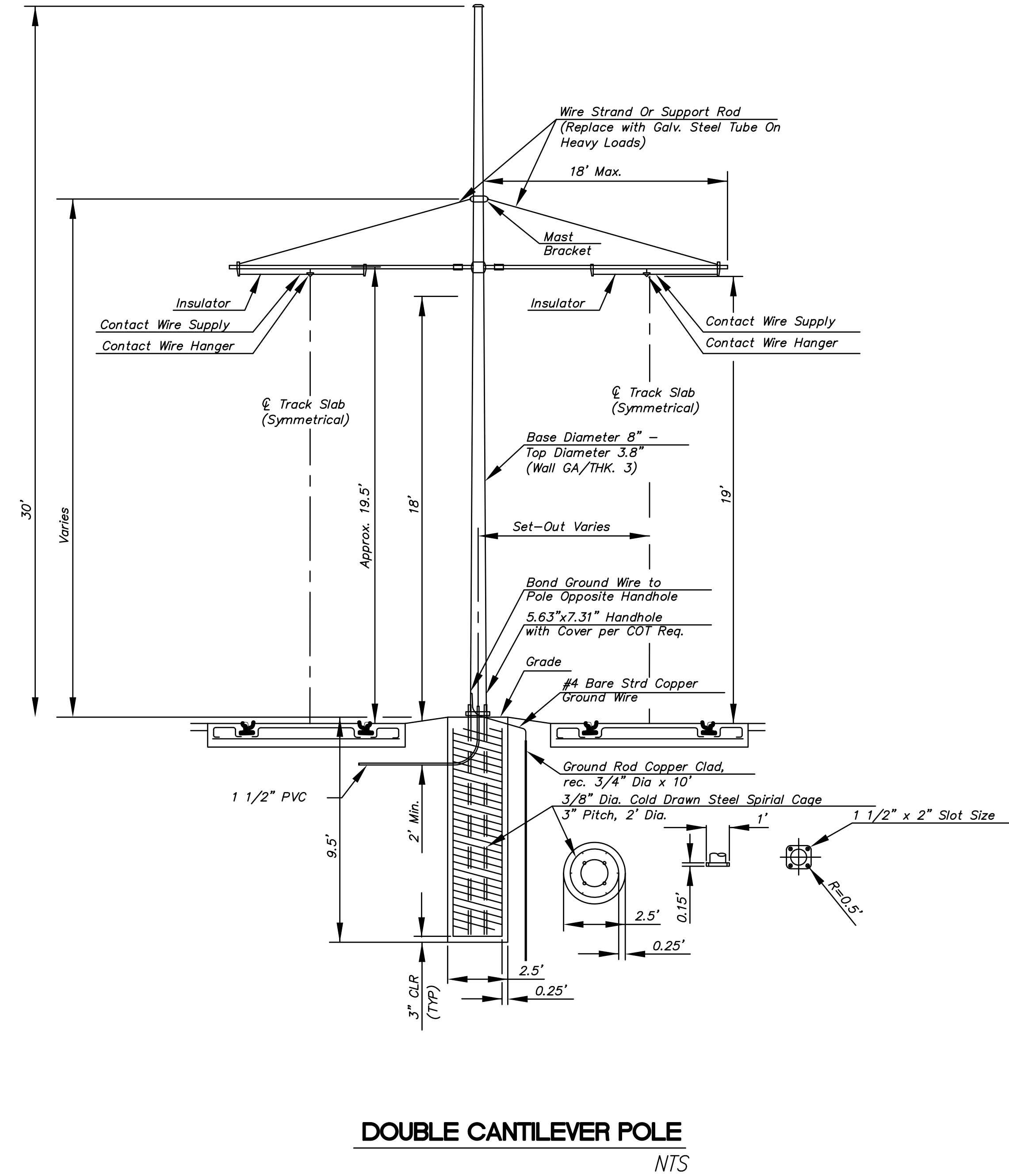
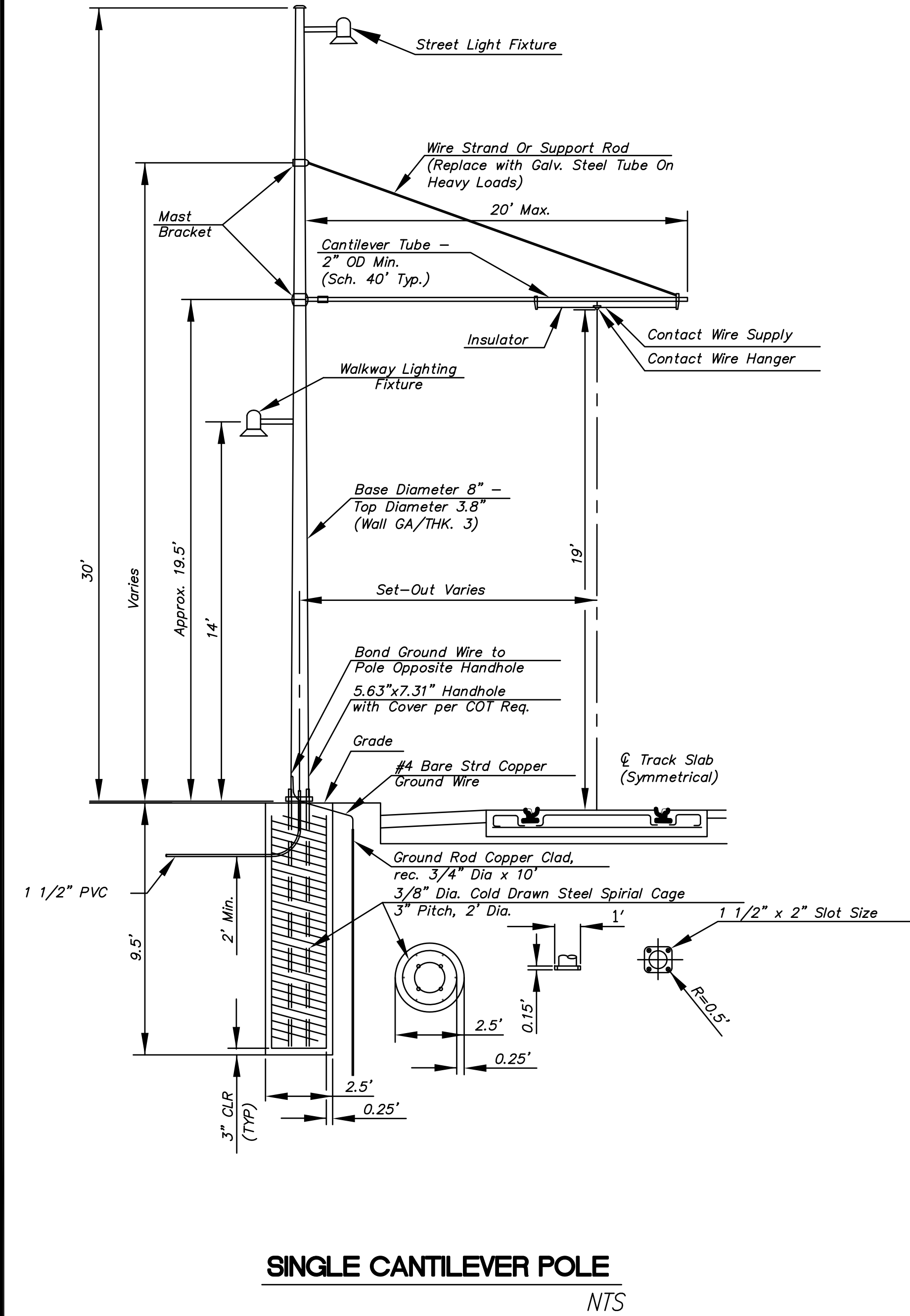
95 OF 184

DRWN. BY V. HO	REF. CE-EPD101	SCALE:
DSGN. BY E. KESSLER		
CHKD. BY A. BATT	PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Stakes - Madsen



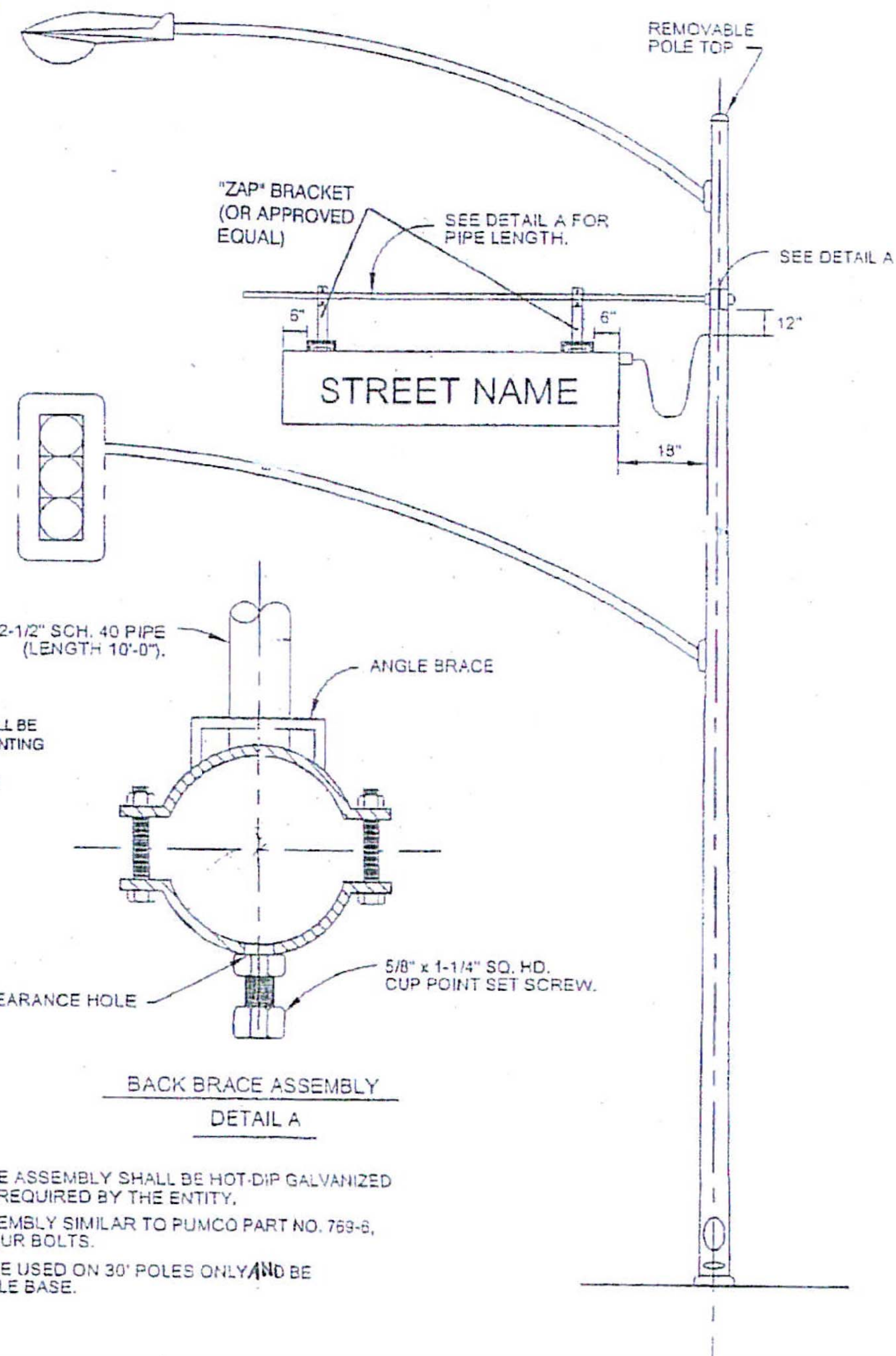
**LIGHTING DETAILS**

TWO WORKING DAYS BEFORE YOU DIG  
 CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT  
 USE OF THE INFORMATION CONTAINED IN  
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<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		96 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-EPD102 SCALE: PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.





\* NOTE: THE DIAMETER WILL BE DETERMINED BY THE MOUNTING HEIGHT AND THE TAPER CHARACTERISTICS OF THE REQUIRED TYPE POLE

**NOTES:**

1. COMPLETE BACK BRACE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.
2. COMPLETE BRACE ASSEMBLY SIMILAR TO PUNCO PART NO. 769-6, AND SHALL HAVE (4) FOUR BOLTS.
3. BRACE ASSEMBLY TO BE USED ON 30' POLES ONLY AND BE MOUNTED 24' FROM POLE BASE.

**SIGN AND MOUNTING BRACKET DETAIL**

NTS

**LIGHTING DETAILS**

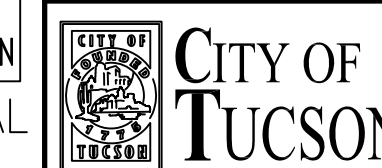
TWO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

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**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

97  
OF  
184



DRWN. BY V. HO  
DSGN. BY E. KESSLER  
CHKD. BY A. BATT

REF. CE-EPD103 SCALE:  
PLAN NO. I-2008-035

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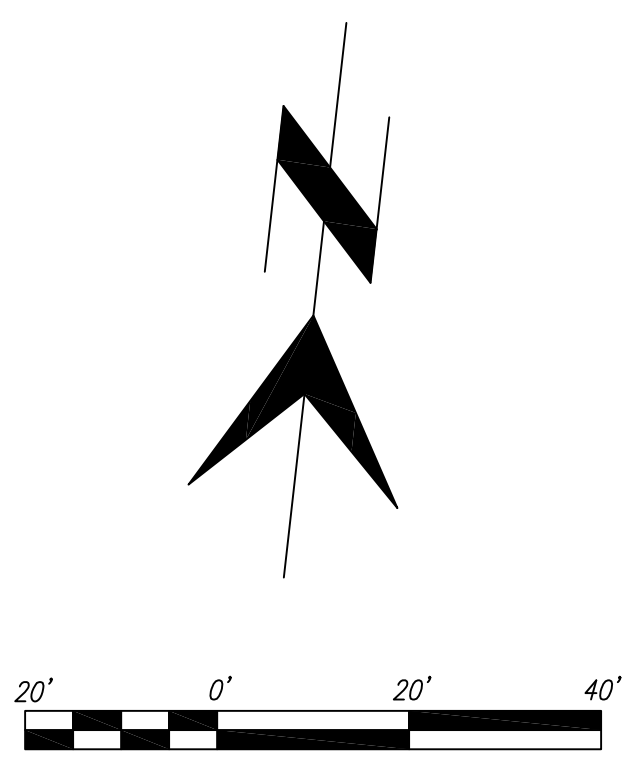
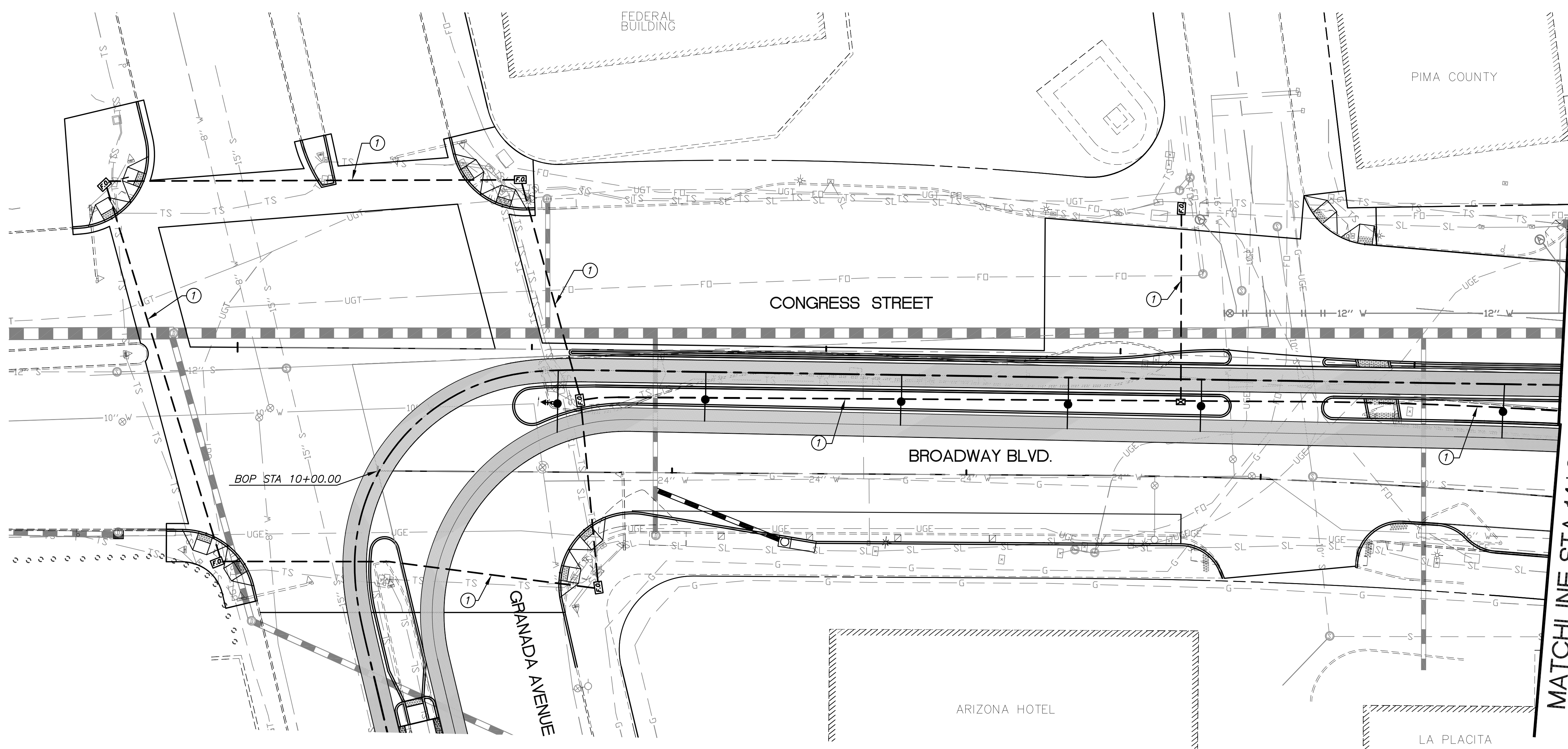
45+00

46+00

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48+00

49+00



MATCHLINE STA 14+00 SEE DWG. BE-EPPL02  
 MATCHLINE STA 49+50 SEE DWG. CE-EPPL02

\*NOTE: EXISTING STREET/WALKWAY LIGHTING TO REMAIN.

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE

\*NOTE: SEE TRAFFIC SIGNAL PLAN CE-TSINTO1 FOR FIBER OPTICS TIE-IN TO TRAFFIC SIGNAL SYSTEM

- #5 PULLBOX
- #7 PULLBOX W/ EXTENSION
- 30"x48" PEN CELL PULLBOX (PEM-3048-PCH-COM) SEE SPECIAL PROVISIONS
- OCS POLE - DOUBLE CANTILEVER
- OCS POLE - DOUBLE CANTILEVER WITH TRAFFIC SIGNAL HEAD

180 WORKING DAYS BEFORE YOU DO CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER CALL COLLECT

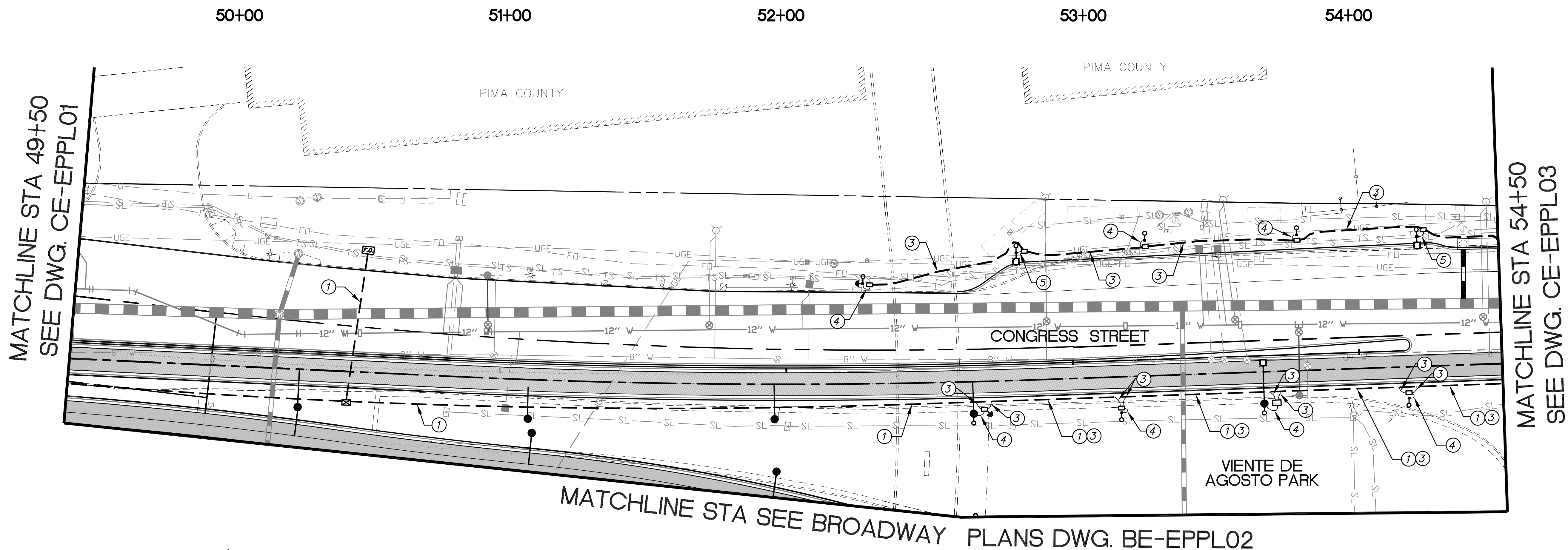
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**LIGHTING PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		99 OF 184
		DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-EPPL01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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MATCHLINE STA 49+50  
SEE DWG. CE-EPPL01

MATCHLINE STA 54+50  
SEE DWG. CE-EPPL03

\* NOTE: EXISTING STREET/PEDESTRIAN LIGHTS ON CONGRESS STREET WEST OF PEDESTRIAN BRIDGE TO REMAIN. SEE DEMOLITION PLANS FOR LIGHT POLE REMOVALS.

- #5 PULLBOX
- #7 PULLBOX
- 30"x48" PEN CELL PULLBOX (PEM-3048-PCH-COM) SEE SPECIAL PROVISIONS
- INDUCTION WALKWAY LIGHT
- INDUCTION WALKWAY LIGHT AND HPS STREET LIGHT ON MAST ARM
- OCS POLE - DOUBLE CANTILEVERED
- OCS POLE - DOUBLE CANTILEVERED WITH INDUCTION WALKWAY LIGHT
- GROUND ROD

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE
③	1 - 2" PVC CONDUIT FOR STREET AND WALKWAY LIGHTING
④	1 - 1/2" PVC CONDUIT WITH 2 - #12 & 1 - #8 GRD
⑤	1 - 1/2" PVC CONDUIT WITH 4 - #12 & 1 - #8 GRD

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 Mikes, Doug

**LIGHTING PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		100 OF 184
		DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-EPPL02 SCALE: 1"=20' PLAN NO. I-2008-035

NO WORKING DATE BEFORE YOU DO  
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55+00

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59+00

CITY OF TUCSON

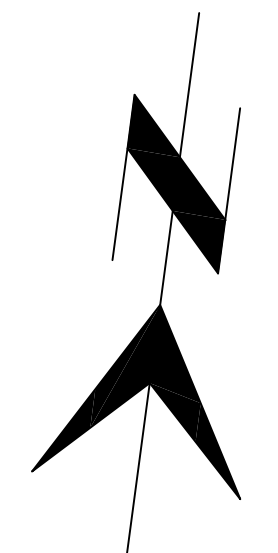
ENOTECA PIZZERIA WINE BAR








CHURCH AVENUE

CONGRESS STREET

MATCHLINE STA 54+50  
SEE DWG. CE-EPPL02

MATCHLINE STA 59+50  
SEE DWG. CE-EPPL04



-  #5 PULLBOX
-  #7 PULLBOX
-  #7 PULLBOX W/ EXTENSION
-  30"x48" PEN CELL PULLBOX (PEM-3048-PCH-COM) SEE SPECIAL PROVISIONS
-  INDUCTION WALKWAY LIGHT
-  OCS POLE - CANTILEVERED WITH INDUCTION WALKWAY LIGHT
-  OCS POLE - CANTILEVERED WITH INDUCTION WALKWAY AND HPS STREET LIGHT

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE
②	1 - 4" PVC CONDUIT W/ 4 - 1" INNERDUCTS FOR PIMA COUNTY F.O. & 1250# MULE TAPE
③	1 - 2" PVC CONDUIT FOR STREET AND WALKWAY LIGHTING
④	1 - 1/2" PVC CONDUIT WITH 2 - #12 & 1 - #8 GRD
⑤	1 - 1/2" PVC CONDUIT WITH 4 - #12 & 1 - #8 GRD


\* NOTE: SEE DEMOLITION PLANS FOR LIGHT POLE REMOVALS

\*NOTE: SEE TRAFFIC SIGNAL PLAN CE-TSINT02 FOR FIBER OPTICS TIE-IN TO TRAFFIC SIGNAL SYSTEM

NO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

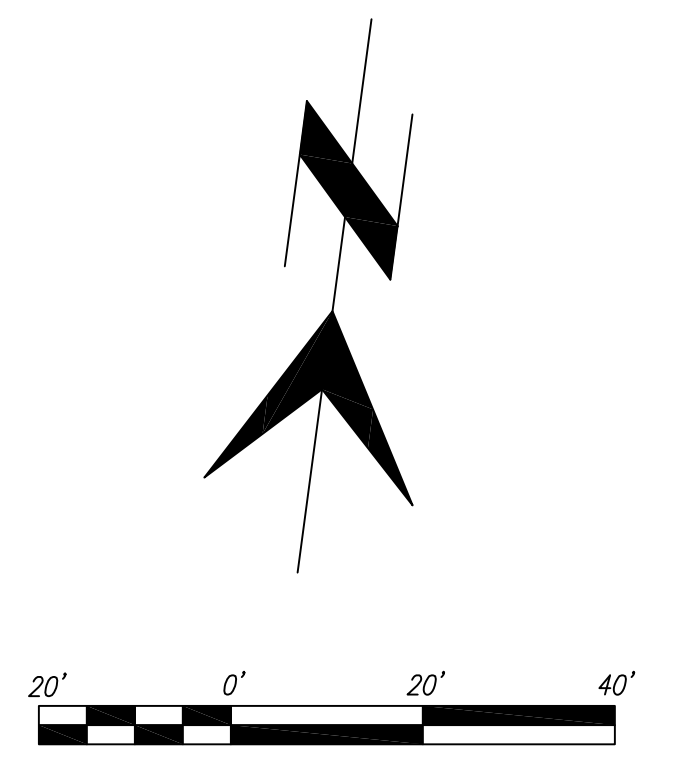
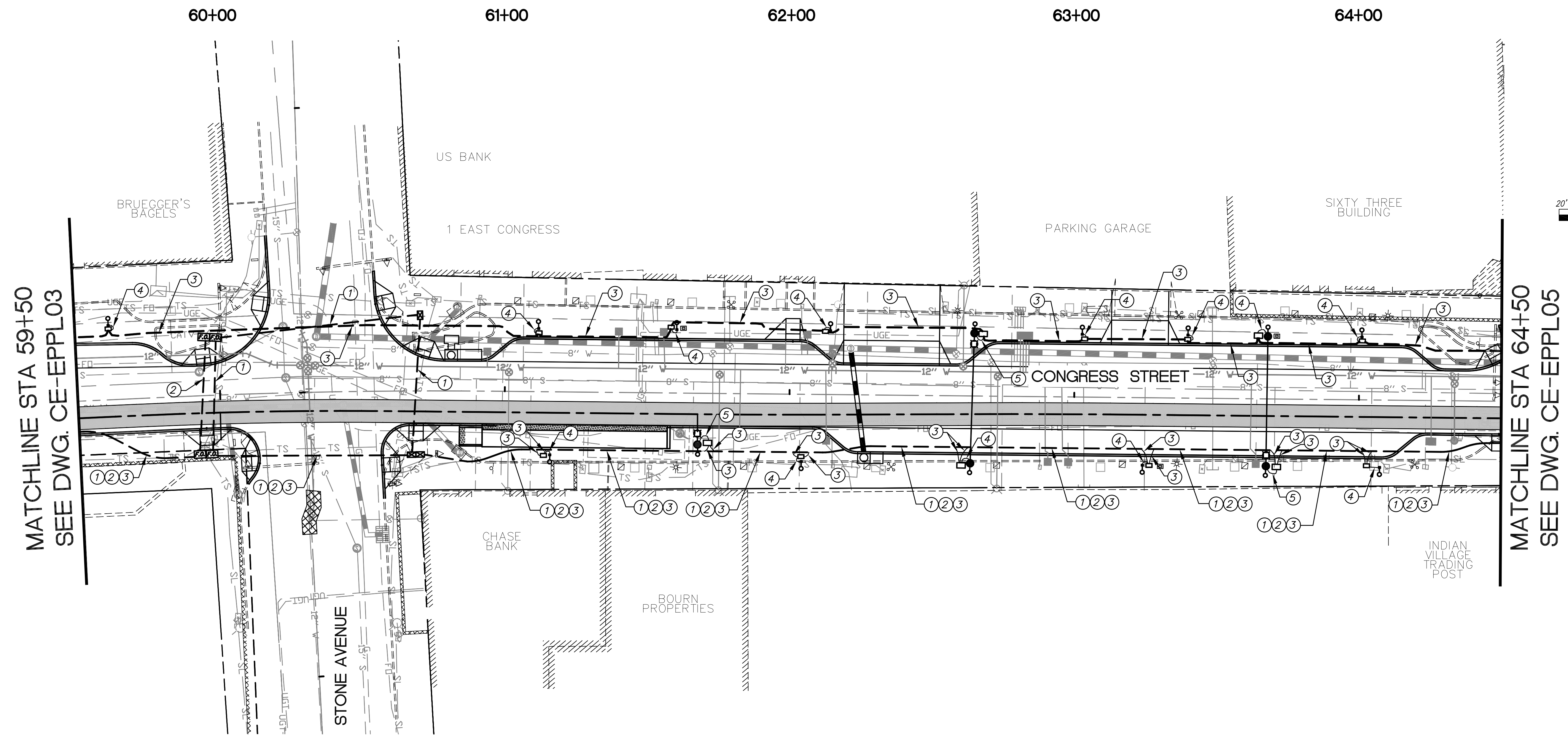
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### LIGHTING PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		101 OF 184
		DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-EPPL03 SCALE: 1"=20' PLAN NO. I-2008-035

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Kessler, Doug



MATCHLINE STA 59+50  
SEE DWG. CE-EPPL03

MATCHLINE STA 64+50  
SEE DWG. CE-EPPL05

\* NOTE: SEE DEMOLITION PLANS FOR LIGHT POLE REMOVALS

- #5 PULLBOX
- #7 PULLBOX
- #7 PULLBOX W/ EXTENSION
- F.O. 30"x48" PEN CELL PULLBOX (PEM-3048-PCH-COM) SEE SPECIAL PROVISIONS

- INDUCTION WALKWAY LIGHT
- OCS POLE - CANTILEVERED WITH INDUCTION WALKWAY LIGHT
- OCS POLE - CROSS SPAN WITH INDUCTION WALKWAY LIGHTS
- OCS POLE - CROSS SPAN WITH INDUCTION WALKWAY AND HPS STREET LIGHTS

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE
②	1 - 4" PVC CONDUIT W/ 4 - 1" INNERDUCTS FOR PIMA COUNTY F.O. & 1250# MULE TAPE
③	1 - 2" PVC CONDUIT FOR STREET AND WALKWAY LIGHTING
④	1 - 1/2" PVC CONDUIT WITH 2 - #12 & 1 - #8 GRD
⑤	1 - 1/2" PVC CONDUIT WITH 4 - #12 & 1 - #8 GRD

\*NOTE: SEE TRAFFIC SIGNAL PLAN CE-TSINT03 FOR FIBER OPTICS TIE-IN TO TRAFFIC SIGNAL SYSTEM

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### LIGHTING PLAN

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REF. CE-EPPL04 SCALE: 1"=20'		PLAN NO. I-2008-035

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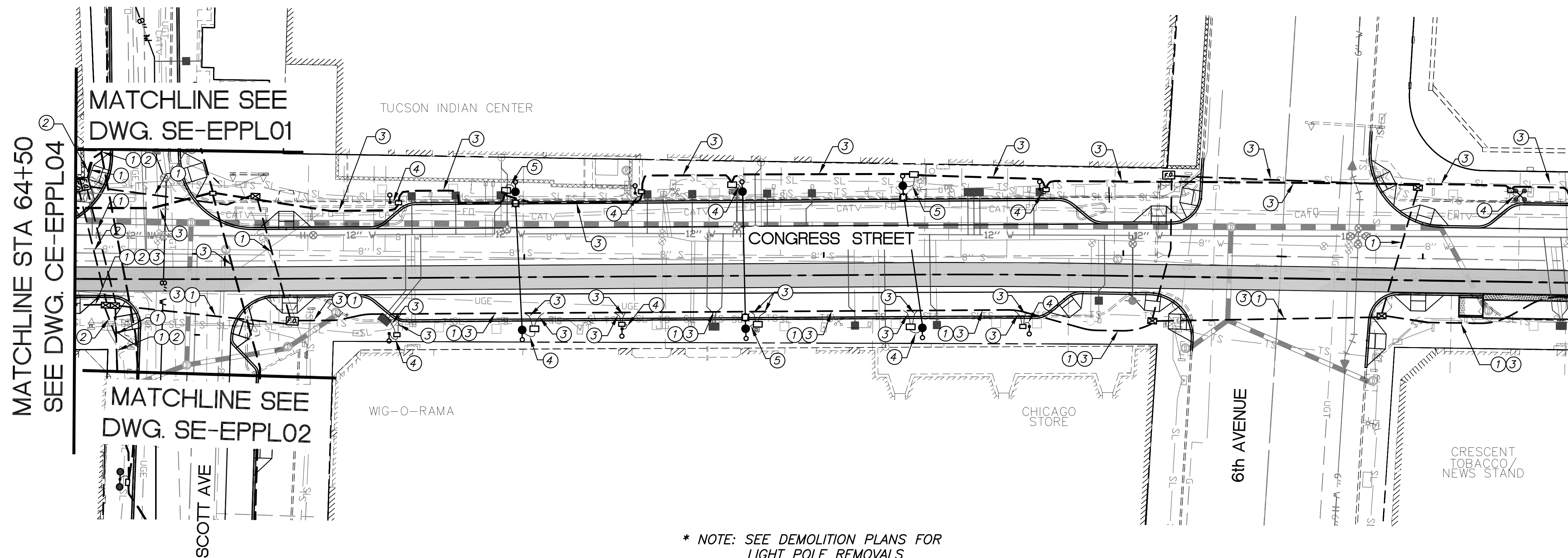
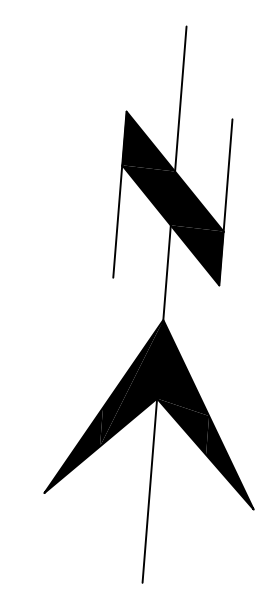
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MATCHLINE STA 64+50  
SEE DWG. CE-EPPL04

MATCHLINE SEE  
DWG. SE-EPPL01

MATCHLINE SEE  
DWG. SE-EPPL02

MATCHLINE STA 69+50  
SEE DWG. CE-EPPL06

\* NOTE: SEE DEMOLITION PLANS FOR  
LIGHT POLE REMOVALS

- #5 PULLBOX
- #7 PULLBOX
- #7 PULLBOX W/ EXTENSION
- 30"x48" PEN CELL PULLBOX (PEM-3048-PCH-COM) SEE SPECIAL PROVISIONS

- INDUCTION WALKWAY LIGHT
- OCS POLE - CANTILEVERED WITH INDUCTION WALKWAY LIGHT
- OCS POLE - CROSS SPAN WITH INDUCTION WALKWAY LIGHTS
- OCS POLE - CROSS SPAN WITH INDUCTION WALKWAY AND HPS STREET LIGHTS
- REFURBISHED 5 GLOBE HISTORIC ORNAMENTAL LIGHT

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE
②	1 - 4" PVC CONDUIT W/ 4 - 1" INNERDUCTS FOR PIMA COUNTY F.O. & 1250# MULE TAPE
③	1 - 2" PVC CONDUIT FOR STREET AND WALKWAY LIGHTING
④	1 - 1/2" PVC CONDUIT WITH 2 - #12 & 1 - #8 GRD
⑤	1 - 1/2" PVC CONDUIT WITH 4 - #12 & 1 - #8 GRD

\*NOTE: SEE TRAFFIC SIGNAL PLAN CE-TSINT04 & CE-TSINT05 FOR FIBER OPTICS TIE-IN TO TRAFFIC SIGNAL SYSTEM

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1-800-782-5348  
BLUE STAKE CENTER  
CALL TO COLLECT

### LIGHTING PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		103 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-EPPL05 SCALE: 1"=20' PLAN NO. I-2008-035

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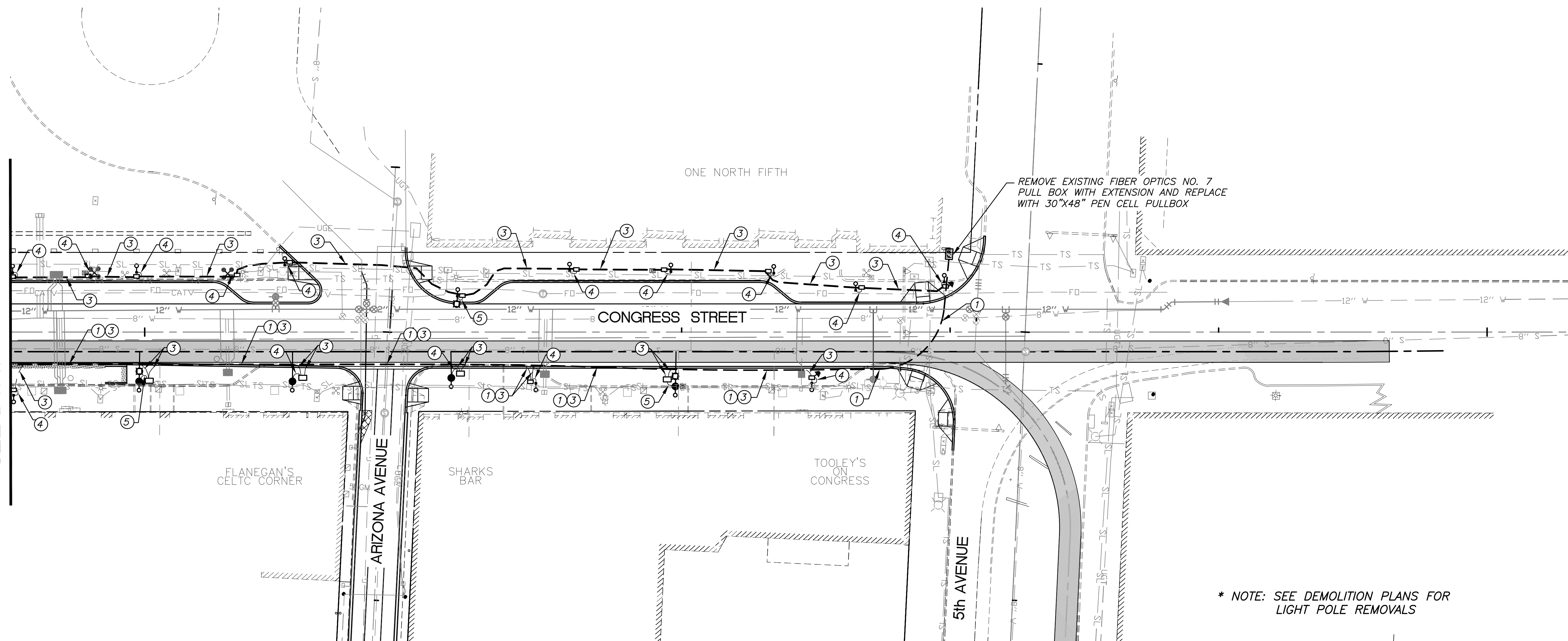
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MATCHLINE STA 69+50  
SEE DWG. CE-EPPL05

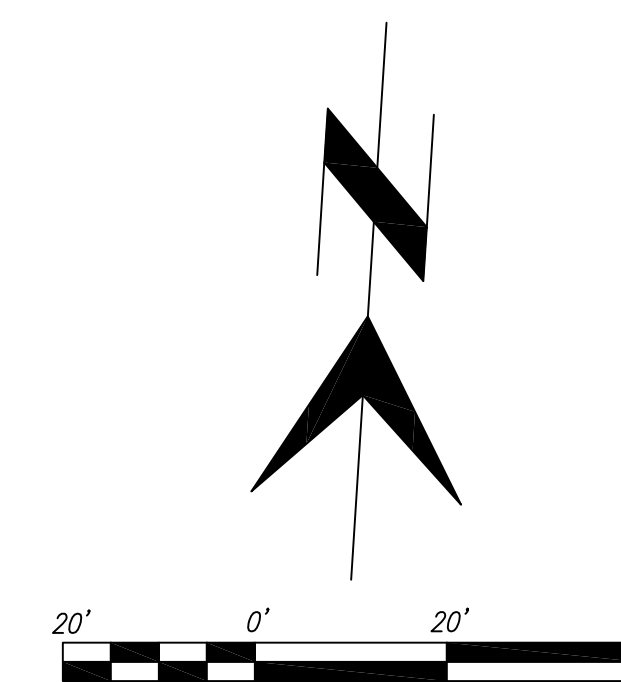


\* NOTE: SEE DEMOLITION PLANS FOR LIGHT POLE REMOVALS

- #5 PULLBOX
- #7 PULLBOX
- #7 PULLBOX W/ EXTENSION
- 30"x48" PEN CELL PULLBOX (PEM-3048-PCH-COM) SEE SPECIAL PROVISIONS

- INDUCTION WALKWAY LIGHT
- INDUCTION WALKWAY LIGHT AND HPS STREET LIGHT ON MAST ARM
- OCS POLE - CANTILEVERED WITH INDUCTION WALKWAY AND HPS STREET LIGHTS
- OCS POLE - CANTILEVERED WITH INDUCTION WALKWAY LIGHT
- REFURBISHED 5 GLOBE HISTORIC ORNAMENTAL LIGHT

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE
③	1 - 2" PVC CONDUIT FOR STREET AND WALKWAY LIGHTING
④	1 - 1/2" PVC CONDUIT WITH 2 - #12 & 1 - #8 GRD
⑤	1 - 1/2" PVC CONDUIT WITH 4 - #12 & 1 - #8 GRD



TWO WORKING DAYS BEFORE YOU DIG  
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1-800-782-5348  
BLUE STAKE CENTER  
CALL TO COLLECT

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### LIGHTING PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		104 OF 184
		DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-EPPL06 SCALE: 1"=20' PLAN NO. I-2008-035

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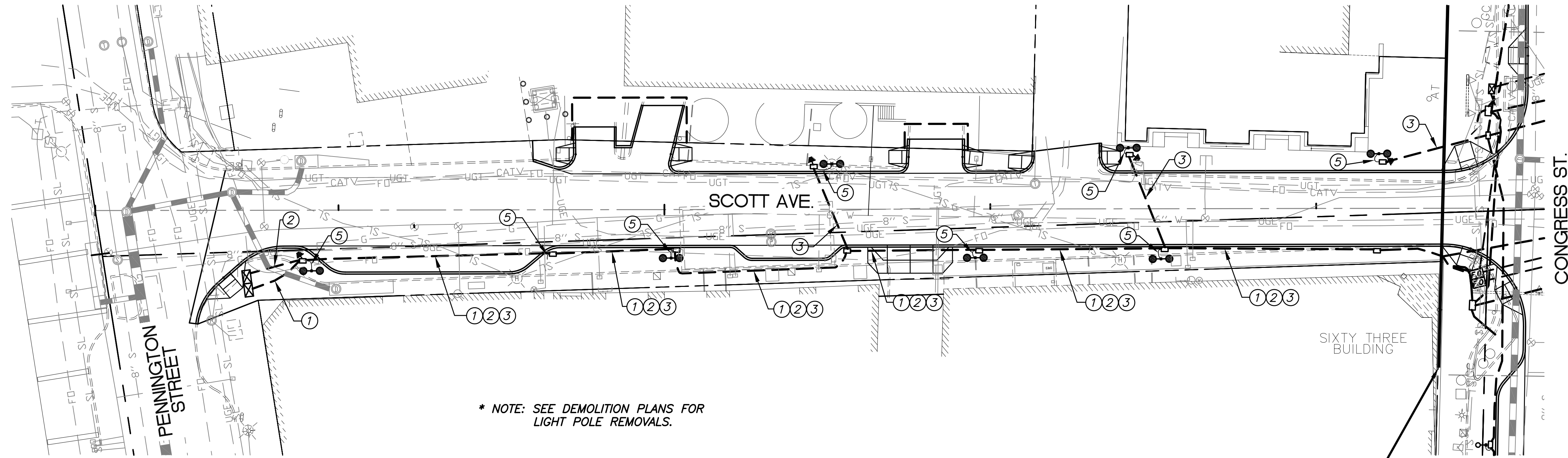
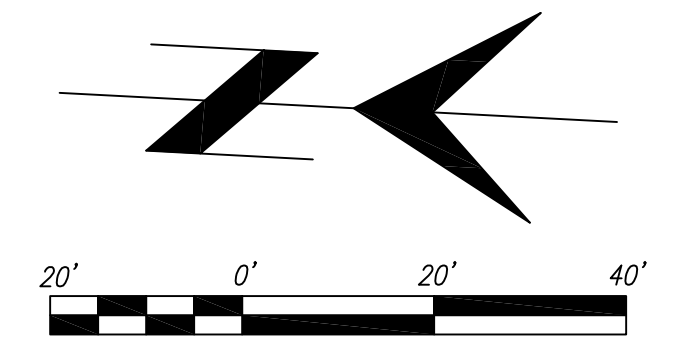
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\* NOTE: SEE DEMOLITION PLANS FOR LIGHT POLE REMOVALS.

MATCHLINE STA 7+39.20  
SEE DWG. CE-EPPL05

- DOUBLE ARM INDUCTION STREET LIGHT
- #5 PULLBOX
- ⊥ GROUND ROD
- ⊠ #7 PULLBOX WITH EXTENSION

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE
②	1 - 4" PVC CONDUIT W/ 4 - 1" INNERDUCTS FOR PIMA COUNTY F.O. & 1250# MULE TAPE
③	1 - 2" PVC CONDUIT FOR STREET AND WALKWAY LIGHTING
⑤	1 - 1/2" PVC CONDUIT WITH 4 - #12 & 1 - #8 GRD



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LIGHTING PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-PENNINGTON ST. TO BROADWAY BLVD.		105 OF 184
		DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. SE-EPPL01 SCALE: 1"=20' PLAN NO. I-2008-035

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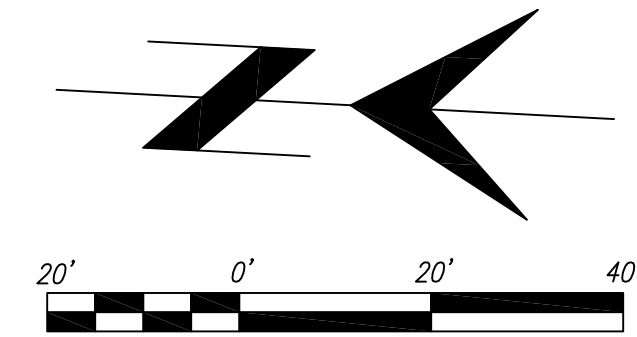
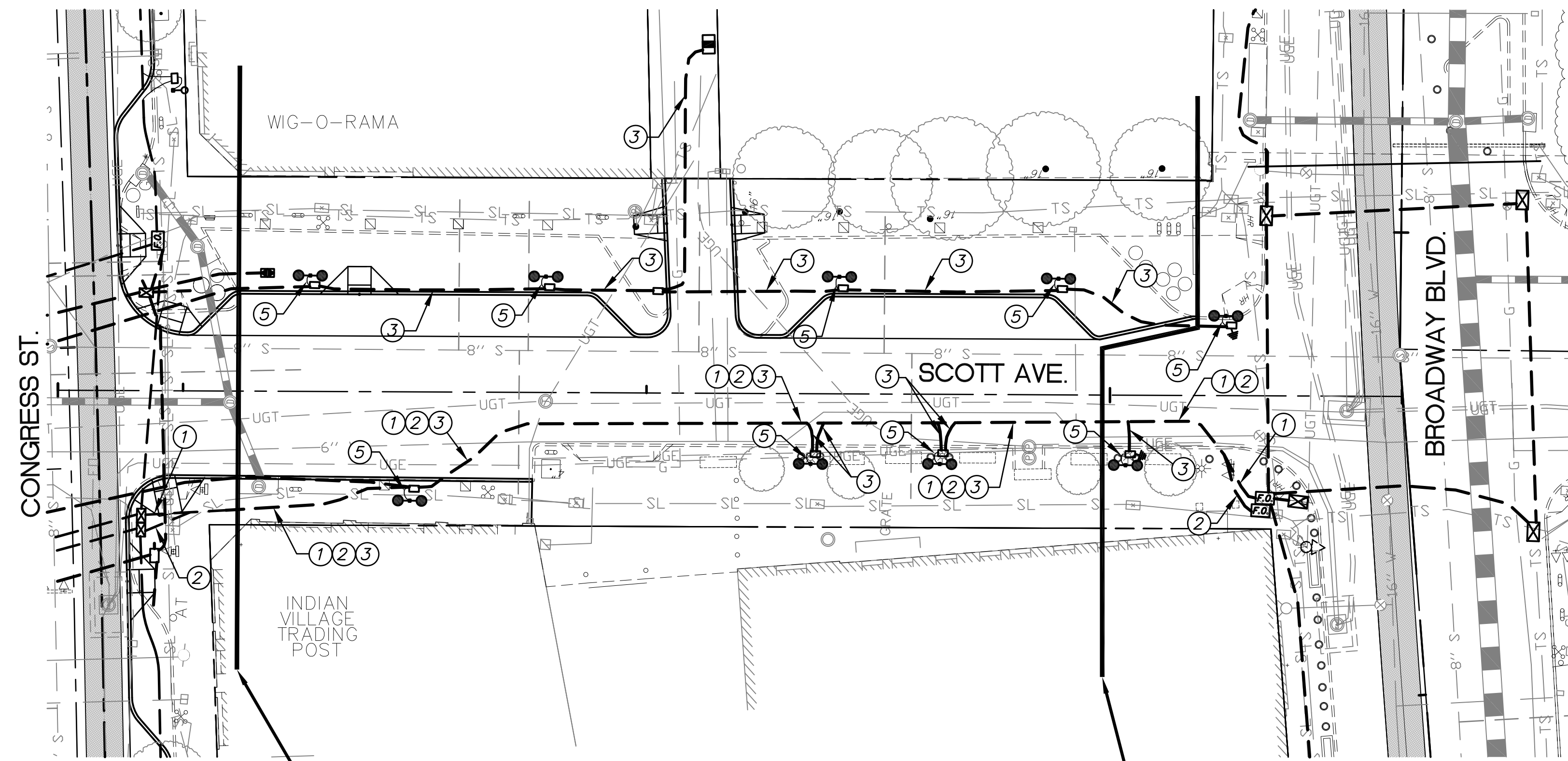
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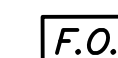






SEE SCOTT PLAN  
NO. I-2008-027

\* NOTE: SEE DEMOLITION PLANS FOR  
LIGHT POLE REMOVALS.

MATCHLINE STA 8+12.31  
SEE DWG. CE-EPPL05

MATCHLINE STA 9+97.97  
SEE DWG. BE-EPPL05

-  DOUBLE ARM INDUCTION STREET LIGHT
-  30"x48" PEN CELL PULLBOX  
(PEM-3048-PCH-COM)  
SEE SPECIAL PROVISIONS
-  #5 PULLBOX
-  GROUND ROD
-  STREET LIGHTING LOAD CENTER
-  #7 PULLBOX WITH EXTENSION

CONDUCTOR SCHEDULE	
①	1 - 4" PVC CONDUIT WITH 4 - 1" INNERDUCTS FOR COT INET & 1250# MULE TAPE
②	1 - 4" PVC CONDUIT W/ 4 - 1" INNERDUCTS FOR PIMA COUNTY F.O. & 1250# MULE TAPE
③	1 - 2" PVC CONDUIT FOR STREET AND WALKWAY LIGHTING
⑤	1 - 1/2" PVC CONDUIT WITH 4 - #12 & 1 - #8 GRD

BROADWAY/SCOTT INTERSECTION SHOWN  
FOR INFORMATION ONLY  
FINAL DESIGN TO BE INCLUDED WITH  
BROADWAY BLVD. PLANS


1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

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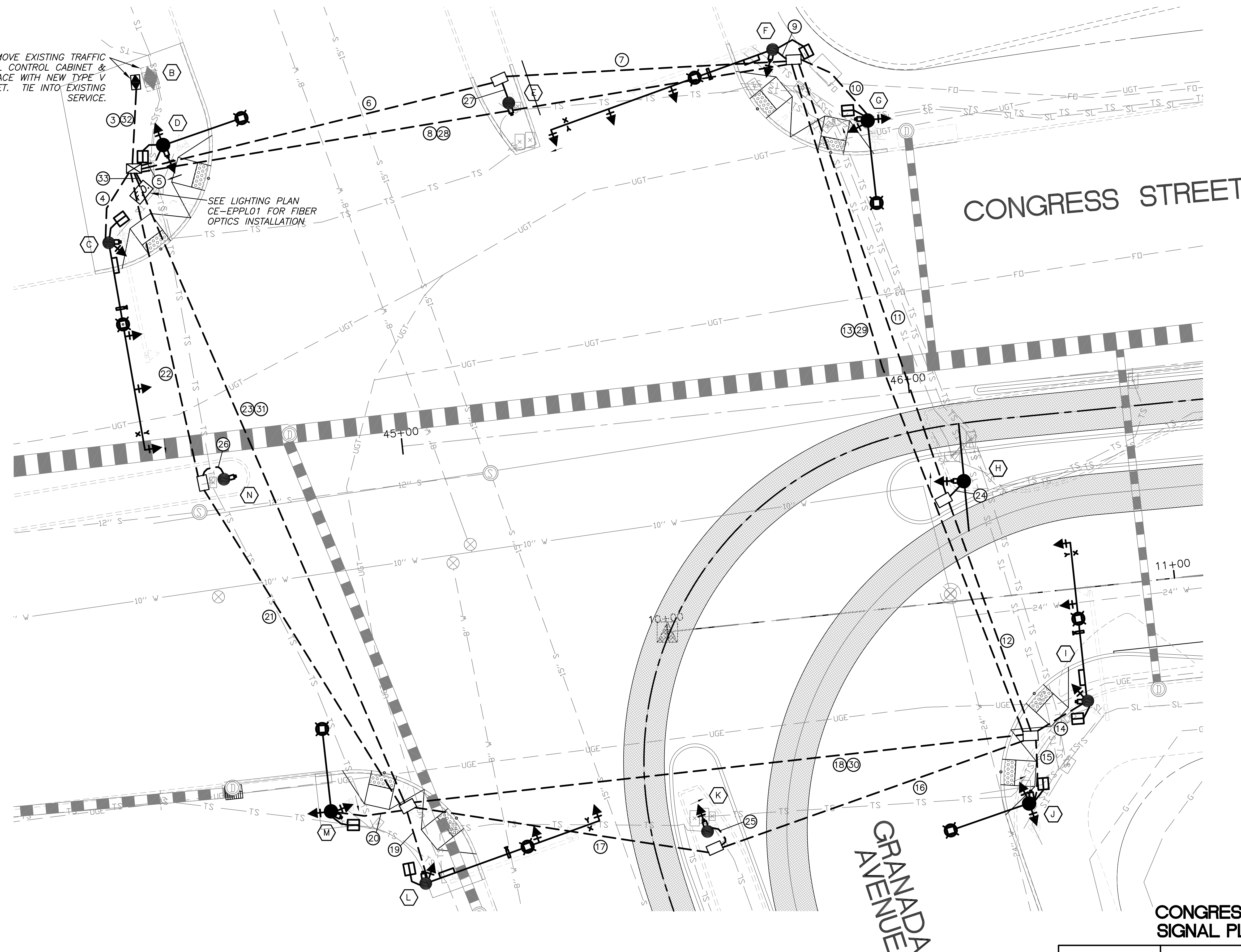
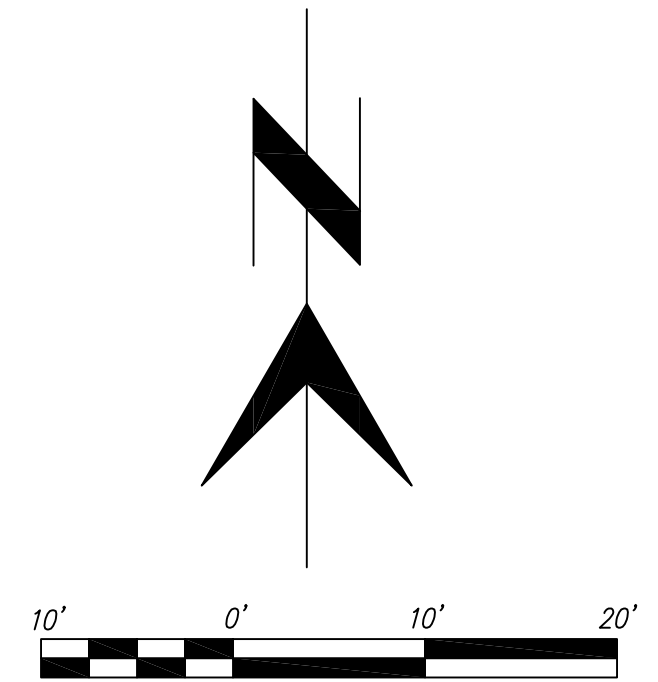
LIGHTING PLAN

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-PENNINGTON ST. TO BROADWAY BLVD.		106 OF 184
			DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT
		REF. SE-EPPL02 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

REMOVE EXISTING TRAFFIC SIGNAL CONTROL CABINET & REPLACE WITH NEW TYPE V CABINET. TIE INTO EXISTING SERVICE.

SEE LIGHTING PLAN CE-EPPL01 FOR FIBER OPTICS INSTALLATION.



**CONGRESS ST/GRANADA AVE  
SIGNAL PLAN**

140 WORKING DAYS BEFORE YOU DO  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSES FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND SURVEYING. CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

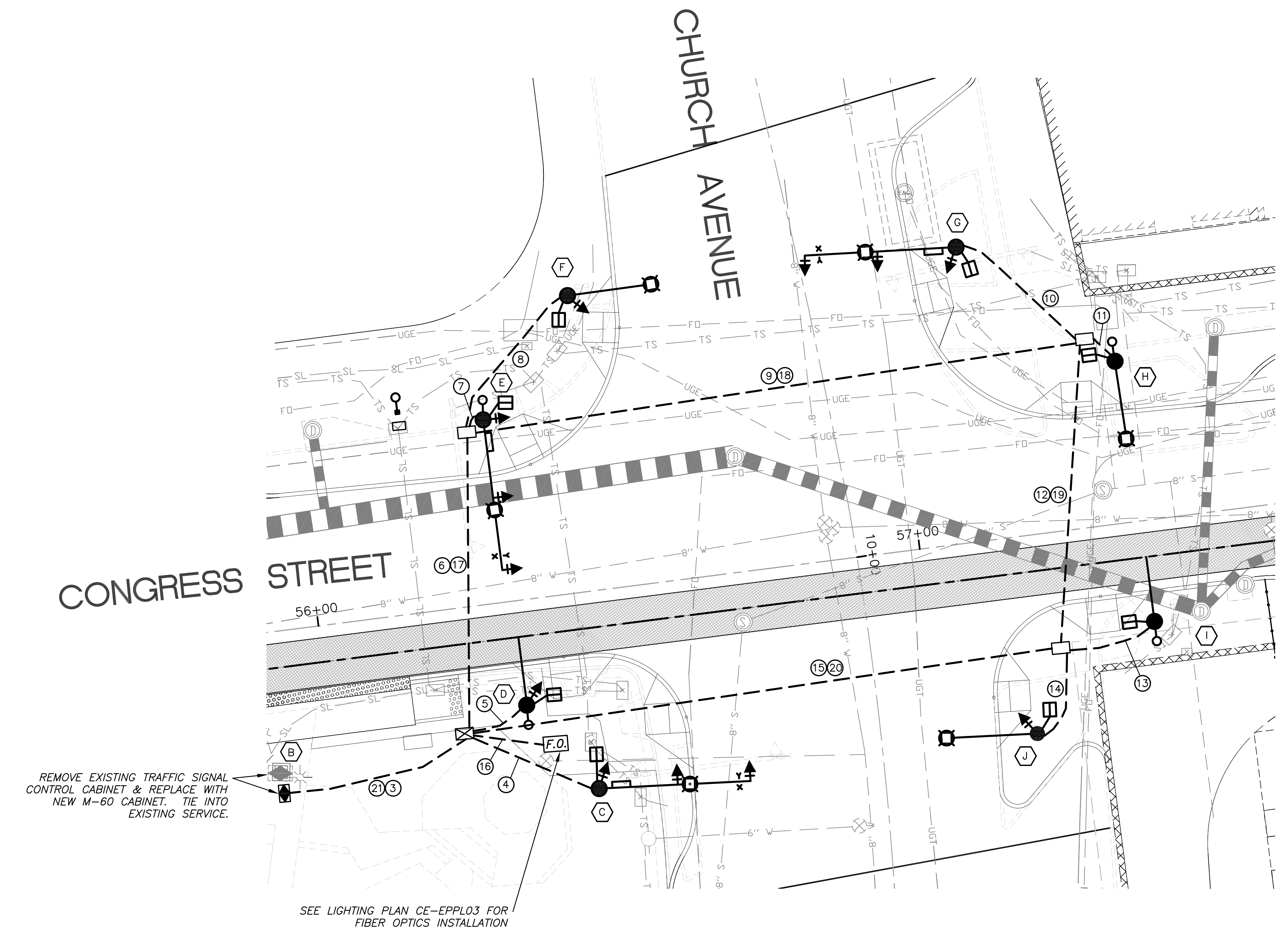
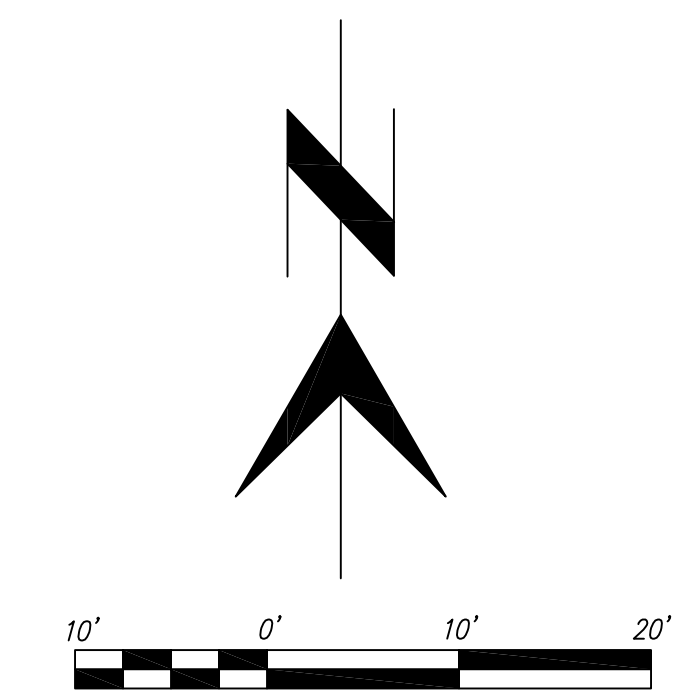
**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		107 OF 184
	DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-TSINT01 SCALE: 1"=10' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Madsen, Doug  
 Stantec - Madsen





REMOVE EXISTING TRAFFIC SIGNAL CONTROL CABINET & REPLACE WITH NEW M-60 CABINET. TIE INTO EXISTING SERVICE.

SEE LIGHTING PLAN CE-EPPL03 FOR FIBER OPTICS INSTALLATION



USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSES FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

### CONGRESS ST/CHURCH AVE SIGNAL PLAN

	DRWN. BY V. HO	REF. CE-TSINT02 SCALE: 1"=10'
	DSGN. BY E. KESSLER	PLAN NO. I-2008-035
CHKD. BY A. BATT		

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

NO.	DATE	REVISION	BY	CHKD.	APPR.

109  
OF  
184

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 Madsen, Doug  
 Stantec - Madsen, Doug

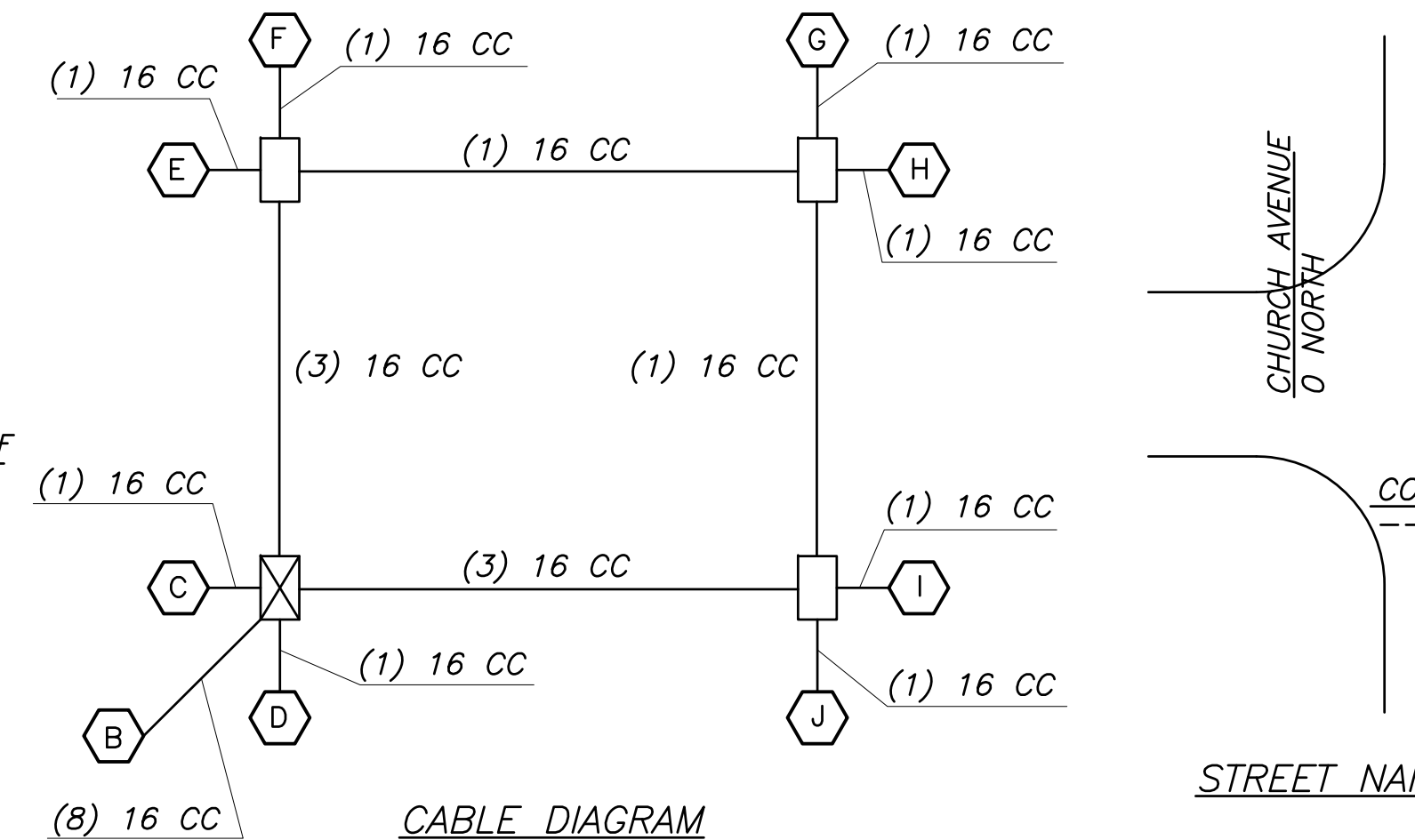
TRAFFIC CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT AND CONDUCTOR SCHEDULE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
CONDUIT RUN NUMBERS		2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
CONDUIT SIZE IN INCHES		3/2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
TYPE	CIRCUIT PHASE																						
#14 16 CONDUCTOR ISMA CABLE	BLACK - PED SIGNAL WALK																						
	WHITE- SIGNAL COMMON																						
	RED- 'A' SIGNAL RED																						
	GREEN- 'A' SIGNAL GREEN																						
	ORANGE- PED PUSH BUTTON																						
	BLUE- 'A' SIGNAL YELLOW																						
	WHITE w/B- LOW VOLTAGE COMMON																						
	RED w/B- 'A' AUX SIGNAL RED																						
	GREEN w/B- 'A' AUX SIGNAL GREEN																						
	ORANGE w/B- SPARE PED PUSH BUTTON																						
	BLUE w/B- 'A' AUX SIGNAL YELLOW																						
	BLACK w/W- PED SIGNAL DON'T WALK																						
	RED w/W- SPARE																						
	GREEN w/W- 'B' SIGNAL LEFT TURN GREEN																						
	ORANGE w/W- SPARE																						
	BLUE w/W- 'B' SIGNAL LEFT TURN YELLOW																						
GROUND	#8 BARE																						
#10 XHHW/THW	STREET LIGHT/ SIGN CIRCUIT #1 (BLK)																						
	STREET LIGHT/SIGN CIRCUIT #2 (RED)																						
	STREET LIGHT COMMON (WHT)																						
	PRE-EMPT BEACON	N/S																					
	PRE-EMPT BEACON	E/W																					
#10 XHHW/THW	WALKWAY LIGHTING CIRCUIT #1 (BLK)																						
	WALKWAY LIGHTING CIRCUIT #2 (RED)																						
	WALKWAY LIGHTING COMMON (WHT)																						
3 COND ISMA CABLE	TO PHOTOCELL (BLACK)																						
	COMMON (WHT)																						
	FROM PHOTOCELL (RED)																						
4 COND SHIELDED CABLE	PRE-EMPT SENSOR	N/S																					
	PRE-EMPT SENSOR	E/W																					
WIFI RADIO BELDEN OUTDOOR RATED CAT 5 CABLE																							
PTZ CAMERA BELDEN OUTDOOR RATED CAT 5 CABLE																							

POLE & EQUIPMENT SCHEDULE

TRAFFIC SIGNAL CONTROL						REMARKS	LOCATION		
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION					
A						EXISTING TO REMAIN			
B		M-60	ACS-3		M-60 SEE FOUNDATION DTL	CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTROL CABINET AND FOUNDATION. (SEE SPECIAL PROVISIONS)			
POLE NUMBER		MAST ARM		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
	TYPE	SIG	LUM	MTG	FACE				
C		TYPE 'Q'	25'	12'	(2) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(3) F T801 (1) COUNTDOWN PED	--	TYPE 'Q' T412	250W.120V HPS LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. INSTALL PHOTOCCELL ON LUM. MOUNT STREET NAME SIGN ON POLE SHAFT.
D		OCS CANTILEVER (SEE DTL)	--	--	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS
E		TYPE 'Q' T412	25'	12'	(2) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(3) F T801 (1) COUNTDOWN PED	--	TYPE 'Q' T412	250W.120V HPS LUM. W/ FULL CUTOFF. 85W.120V INDUCTION WALKWAY LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. INSTALL WIFI RADIO ON LUMINAIRE MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT. INSTALL PTZ CAMERA ON TOP OF POLE.
F		TYPE "G" T407	--	12'	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS
G		TYPE 'Q'	25'	12'	(2) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(3) F T801 (1) COUNTDOWN PED	--	TYPE 'Q' T412	250W.120V HPS LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT.
H		TYPE "G" T407	--	12'	(1) TYPE XI T909	(1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS 85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS
I		OCS CANTILEVER (SEE DTL)	--	--	(1) TYPE XI T909	(1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS
J		TYPE "G" T407	--	12'	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS

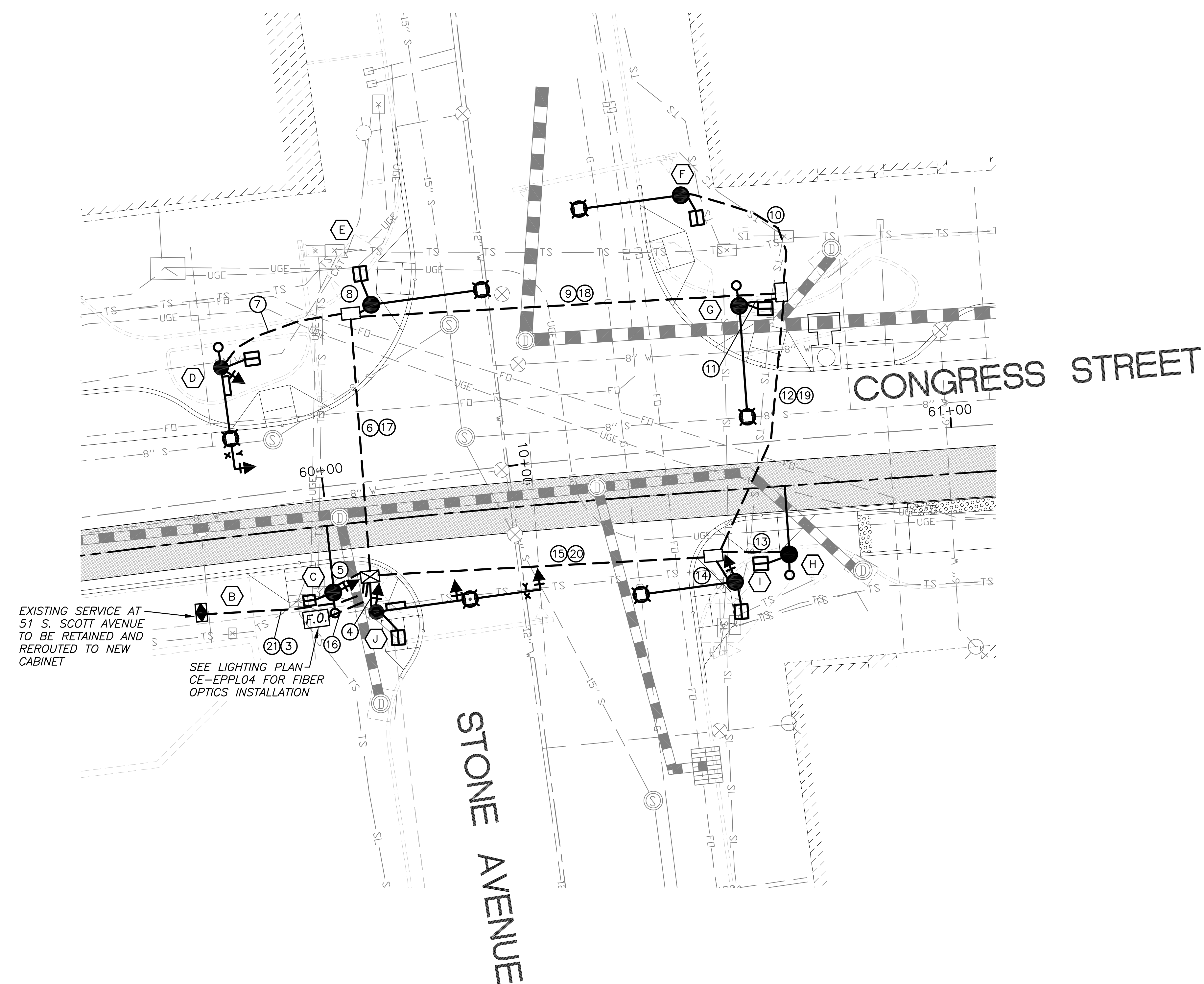
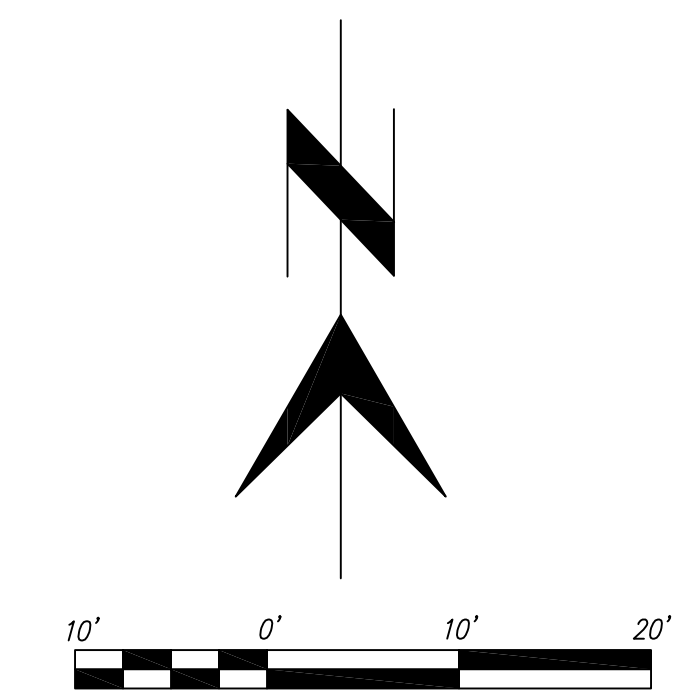
- NOTES:
- ALL EQUIPMENT SHALL BE PLACED WITHIN THE RIGHT OF WAY, INCLUDING ALL CONDUIT RUNS.
  - CONDUIT RUNS ARE SHOWN FOR SCHEMATIC PURPOSE, AND SHALL BE PLACED IN A COMMON TRENCH WHERE POSSIBLE.
  - SEPARATE POWER FROM SIGNAL CABLES AS MUCH AS POSSIBLE.
  - ALL EQUIPMENT, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE CURRENT CITY OF TUCSON/PIMA COUNTY "STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" AND "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".
  - THE CONTRACTOR SHALL VERIFY STREET NAME LEGENDS WITH CITY OF TUCSON PRIOR TO ORDERING MOUNT STREET NAME SIGN TO SIDE OF POLE. REFER TO SPECIAL PROVISIONS FOR DETAILS AND SIGNING PLANS FOR SIGN LAYOUT.
  - SIGNAL HEADS ON MAST ARMS SHALL BE CONSTRUCTED OF ALUMINUM. ALL OTHER SIGNAL HEADS SHALL BE POLYCARBONATE.
  - CONTACT TUCSON ELECTRIC POWER CO. 918-8300, TO COORDINATE ELECTRICAL SERVICE CONNECTION.
  - ALL SIGNAL INDICATIONS AND PEDESTRIAN SIGNALS SHALL BE L.E.D.



CONGRESS ST/CHURCH AVE CONDUCTOR AND POLE SCHEDULE

<p><b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>110 of 184</p>
	<p>CITY OF TUCSON</p>	<p>DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT</p>	<p>REF. CE-TSCON02 SCALE: 1"=10' PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.



EXISTING SERVICE AT 51 S. SCOTT AVENUE TO BE RETAINED AND REROUTED TO NEW CABINET

SEE LIGHTING PLAN CE-EPPLO4 FOR FIBER OPTICS INSTALLATION

STONE AVENUE

CONGRESS STREET

180 WORKING DAYS BEFORE YOU DO CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER CALL COLLECT

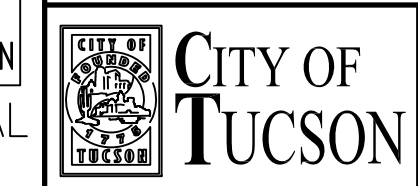
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**CONGRESS ST/STONE AVE SIGNAL PLAN**

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

111 OF 184

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL



DRWN. BY V. HO  
DSGN. BY E. KESSLER  
CHKD. BY A. BATT

REF. CE-TSINT03 SCALE: 1"=10'

PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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TRAFFIC CONDUIT AND CONDUCTOR SCHEDULE

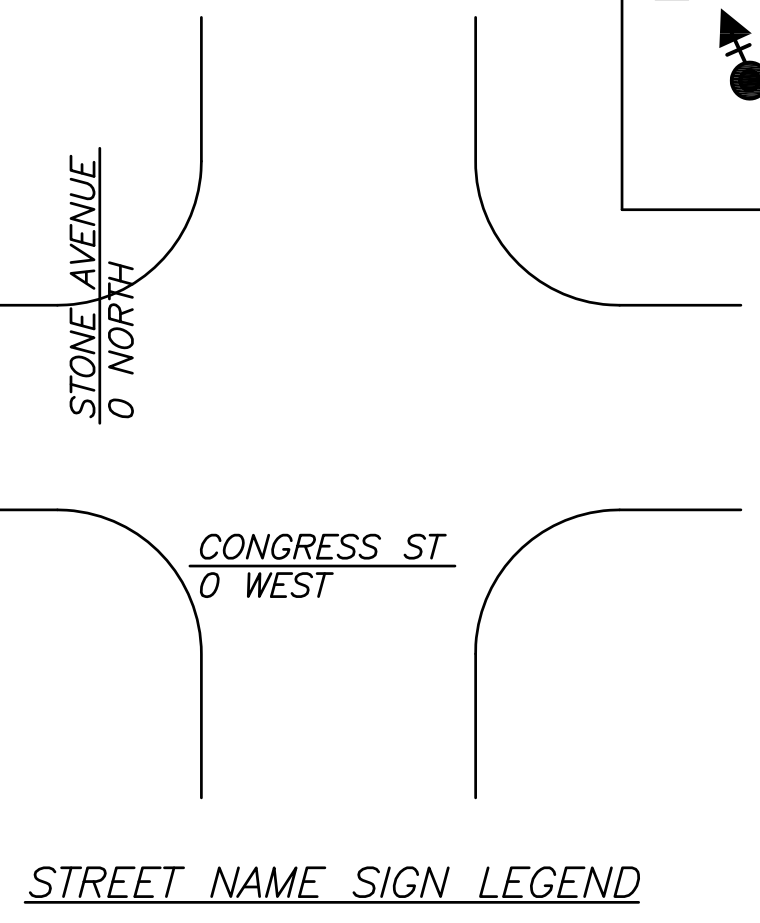
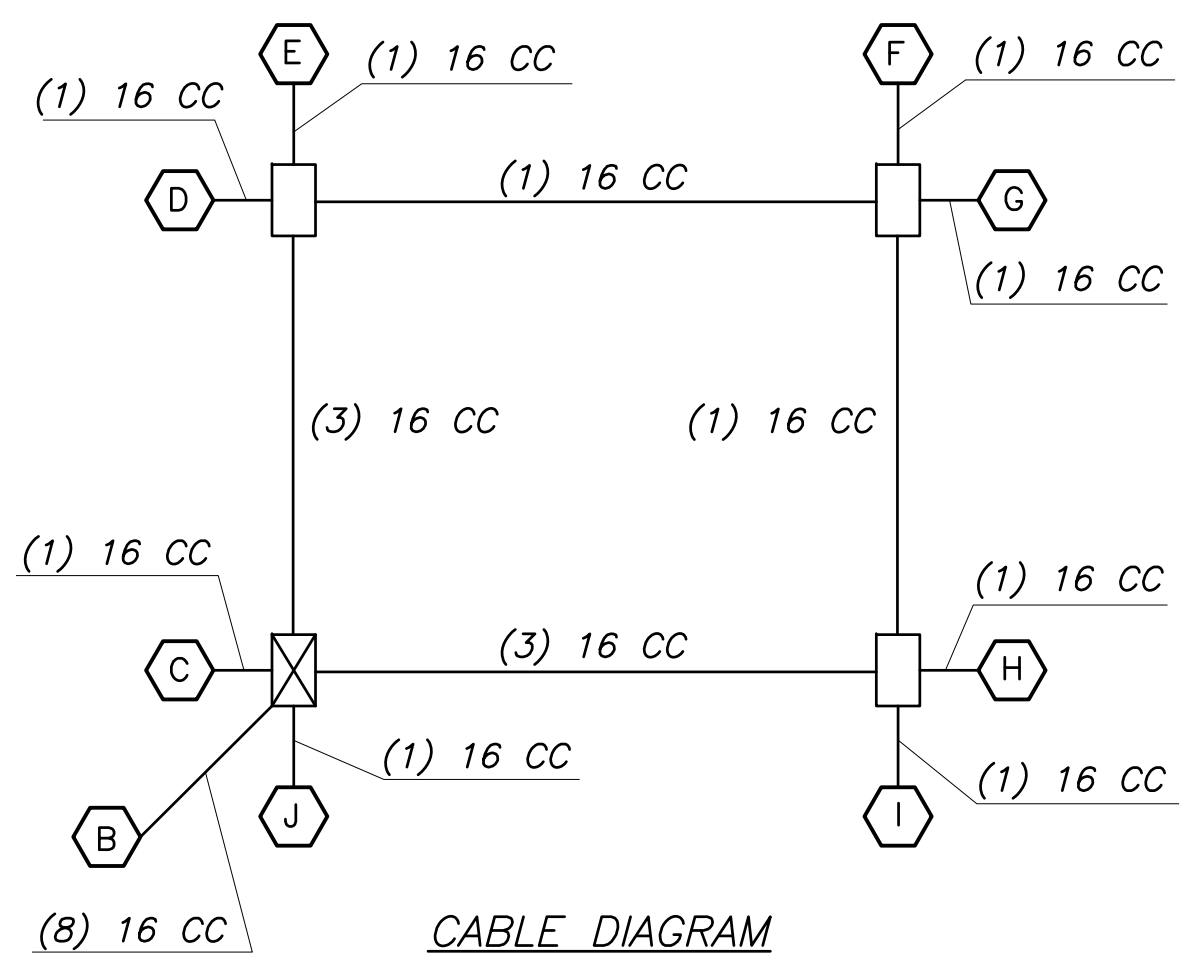
CONDUIT AND CONDUCTOR SCHEDULE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
TYPE	CIRCUIT PHASE																							
#14 16 CONDUCTOR ISMA CABLE	BLACK - PED SIGNAL WALK																							
	WHITE- SIGNAL COMMON																							
	RED- 'A' SIGNAL RED																							
	GREEN- 'A' SIGNAL GREEN																							
	ORANGE- PED PUSH BUTTON																							
	BLUE- 'A' SIGNAL YELLOW																							
	WHITE w/B- LOW VOLTAGE COMMON																							
	RED w/B- 'A' AUX SIGNAL RED																							
	GREEN w/B- 'A' AUX SIGNAL GREEN																							
	ORANGE w/B- SPARE PED PUSH BUTTON																							
	BLUE w/B- 'A' AUX SIGNAL YELLOW																							
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	RED w/W- SPARE																							
	GREEN w/W- 'B' SIGNAL LEFT TURN GREEN																							
	ORANGE w/W- SPARE																							
	BLUE w/W- 'B' SIGNAL LEFT TURN YELLOW																							
	GROUND	#8 BARE																						
	#10 XHHW/THW	STREET LIGHT/ SIGN CIRCUIT #1 (BLK)																						
STREET LIGHT/SIGN CIRCUIT #2 (RED)																								
STREET LIGHT COMMON (WHT)																								
PRE-EMPT BEACON		N/S																						
PRE-EMPT BEACON		E/W																						
#10 XHHW/THW	WALKWAY LIGHTING CIRCUIT #1 (BLK)																							
	WALKWAY LIGHTING CIRCUIT #2 (RED)																							
	WALKWAY LIGHTING COMMON (WHT)																							
3 COND ISMA CABLE	TO PHOTOCELL (BLACK)																							
	COMMON (WHT)																							
	FROM PHOTOCELL (RED)																							
4 COND SHIELDED CABLE	PRE-EMPT SENSOR	N/S																						
	PRE-EMPT SENSOR	E/W																						
WIFI RADIO BELDEN OUTDOOR RATED CAT 5 CABLE																								
PTZ CAMERA BELDEN OUTDOOR RATED CAT 5 CABLE																								

POLE & EQUIPMENT SCHEDULE

TRAFFIC SIGNAL CONTROL						REMARKS	LOCATION		
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION					
A						EXISTING AT 515 SCOTT AVENUE TO REMAIN			
B		M-60	ACS-3		M-60 SEE FOUNDATION DTL	CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTROL CABINET AND FOUNDATION. (SEE SPECIAL PROVISIONS)			
POLE NUMBER	TYPE	MAST ARM		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
		SIG	LUM	MTG	FACE				
C	OCS CANTILEVER (SEE DTL)	--	--	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS	
D	TYPE 'Q' T412 (MOD FOR SHORTER MAST ARM)	15'	10'	(1) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(2) F T801 (1) COUNTDOWN PED	--	T412	250W.120V HPS LUM. W/ FULL CUTOFF. 85W.120V INDUCTION WALKWAY LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. INSTALL WIFI RADIO ON LUMINAIRE MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT. INSTALL PTZ CAMERA ON TOP OF POLE.	
E	TYPE 'G' T407	--	15'	(1) TYPE XI T909	(1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS	
F	TYPE 'Q' T412	--	15'	(1) TYPE XI T909	(1) COUNTDOWN PED	--	T407	Q POLE W/O SIGNAL MASTARM (FOR FUTURE 2-WAY CONVERSION) 250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS	
G	TYPE 'G' T407	--	15'	TYPE XI T909	(1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS. 85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS	
H	OCS CANTILEVER (SEE DTL)	--	--	TYPE XI T909	(1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS	
I	TYPE 'G' T407	--	12'	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS	
J	TYPE 'Q' T412	25'	12'	(2) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(3) F T801 (1) COUNTDOWN PED	--	TYPE 'Q' T412	250W.120V HPS LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. INSTALL PHOTOCELL ON LUM. MOUNT STREET NAME SIGN ON POLE SHAFT.	

NOTES:

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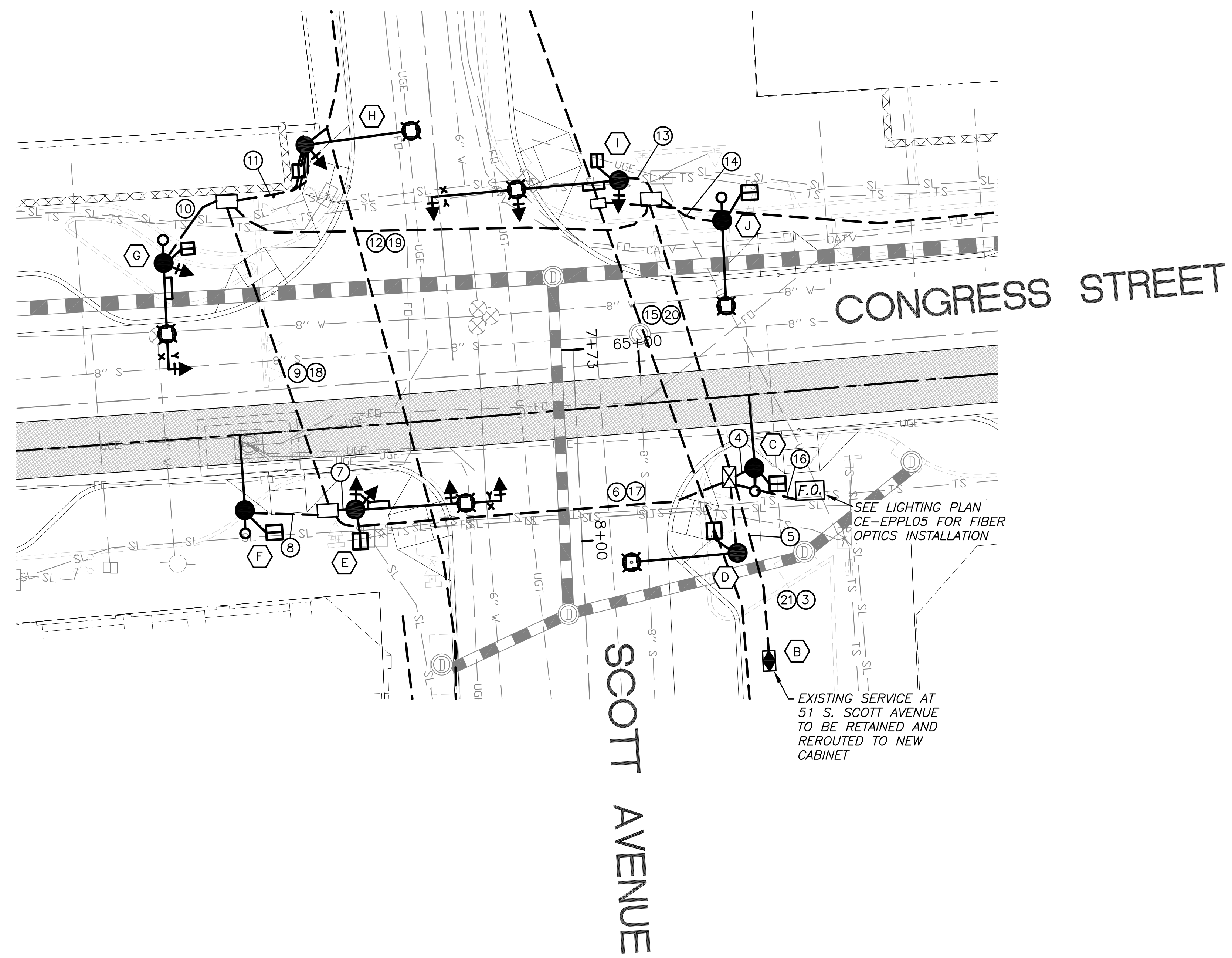
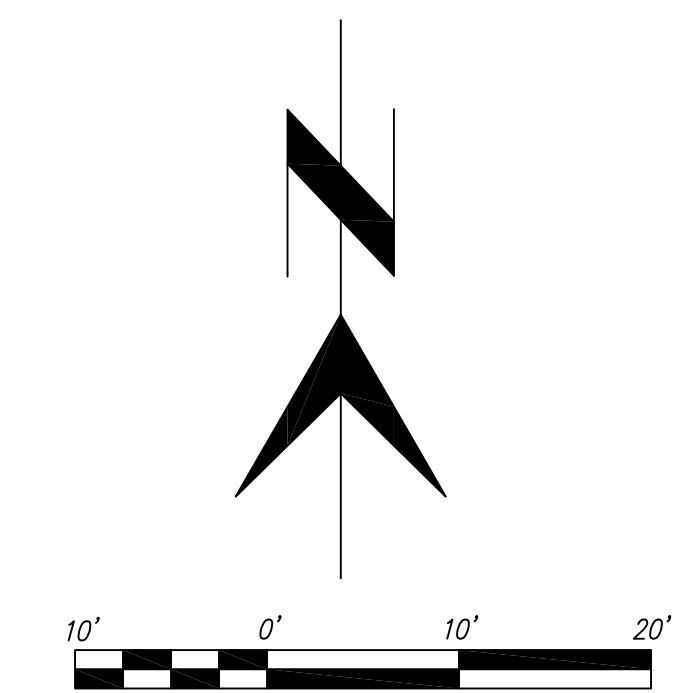


CONGRESS ST/STONE AVE CONDUCTOR AND POLE SCHEDULE

<p><b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>112 OF 184</p>
	<p>CITY OF TUCSON</p>	<p>DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT</p>	<p>REF. CE-TSCON03 SCALE: 1"=10' PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.





140 WORKING DAYS BEFORE YOU DO  
 CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT

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 STANTEC CONSULTING SHALL HAVE NO  
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### CONGRESS ST/SCOTT AVE SIGNAL PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		113 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-TSINT04 SCALE: 1"=10' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

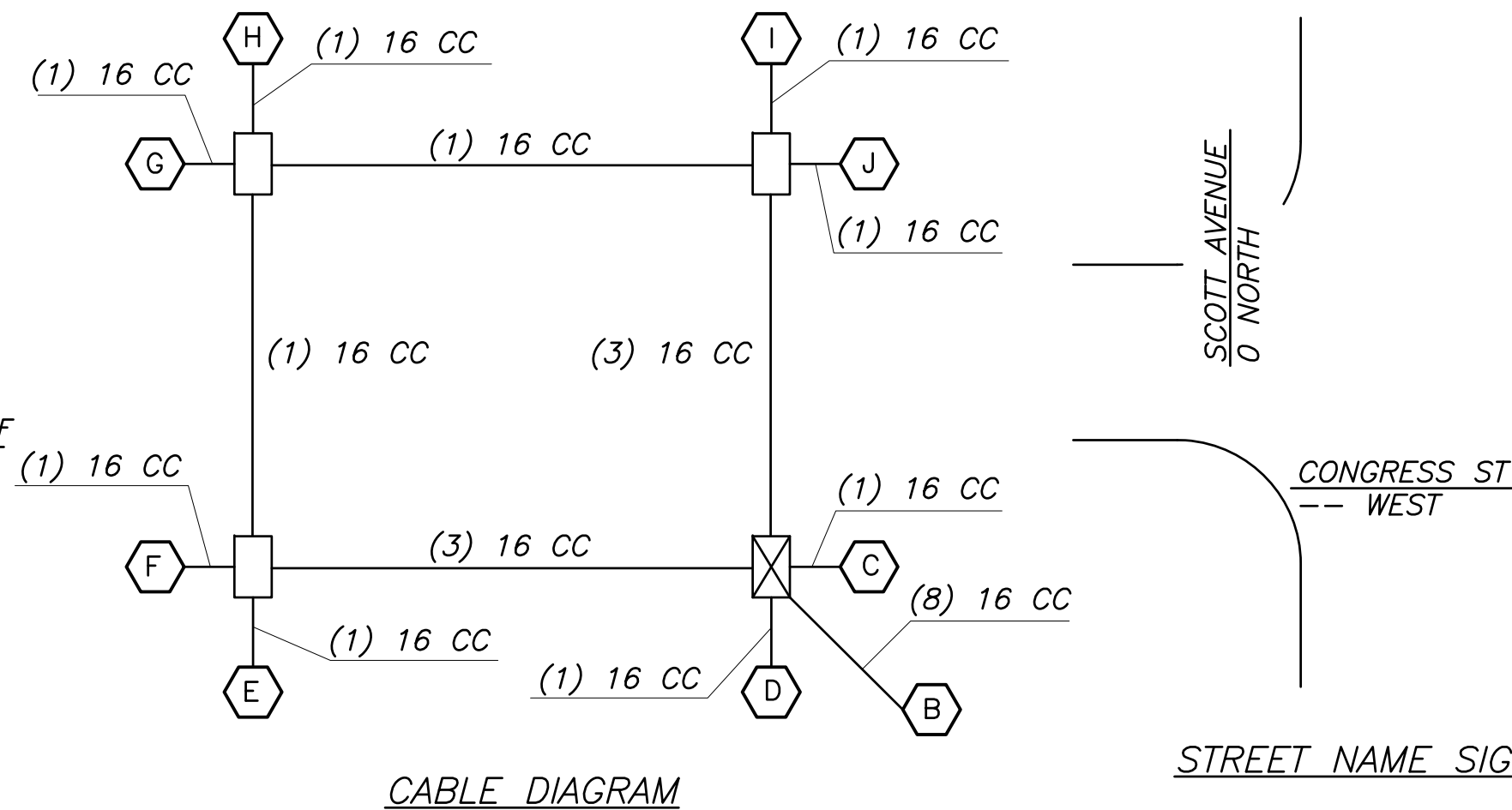
TRAFFIC CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT AND CONDUCTOR SCHEDULE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CONDUIT RUN NUMBERS		2	3(4)	2	2	2(4)	3	3	2(4)	3	3	2(4)	3	2	2(4)	2	2	2	2	2	2	2
CONDUIT SIZE IN INCHES		3/2	3(4)	2	2	2(4)	3	3	2(4)	3	3	2(4)	3	2	2(4)	2	2	2	2	2	2	2
TYPE	CIRCUIT PHASE																					
#14 16 CONDUCTOR ISMA CABLE	BLACK - PED SIGNAL WALK																					
	WHITE - SIGNAL COMMON																					
	RED - 'A' SIGNAL RED																					
	GREEN - 'A' SIGNAL GREEN																					
	ORANGE - PED PUSH BUTTON																					
	BLUE - 'A' SIGNAL YELLOW																					
	WHITE w/B - LOW VOLTAGE COMMON																					
	RED w/B - 'A' AUX SIGNAL RED																					
	GREEN w/B - 'A' AUX SIGNAL GREEN																					
	ORANGE w/B - SPARE PED PUSH BUTTON																					
	BLUE w/B - 'A' AUX SIGNAL YELLOW																					
	BLACK w/W - PED SIGNAL DON'T WALK																					
	RED w/W - SPARE																					
	GREEN w/W - 'B' SIGNAL LEFT TURN GREEN																					
	ORANGE w/W - SPARE																					
	BLUE w/W - 'B' SIGNAL LEFT TURN YELLOW																					
GROUND	#8 BARE																					
#10 XHHW/THW	STREET LIGHT/ SIGN CIRCUIT #1 (BLK)		1		1	1				1	1				1	1						
	STREET LIGHT/SIGN CIRCUIT #2 (RED)		1				1	1				1	1			1	1					
	STREET LIGHT COMMON (WHT)		1		1	1	1			1	1	1	1	1	1	1	1					
	PRE-EMPT BEACON	N/S	1																			
	PRE-EMPT BEACON	E/W	1																			
#10 XHHW/THW	WALKWAY LIGHTING CIRCUIT #1 (BLK)		1	1						1	1				1	1						
	WALKWAY LIGHTING CIRCUIT #2 (RED)		1				1	1							1	1						
	WALKWAY LIGHTING COMMON (WHT)		1	1			1	1	1						1	1	1					
3 COND ISMA CABLE	TO PHOTOCELL (BLACK)		1		1																	
	COMMON (WHT)		1		1																	
	FROM PHOTOCELL (RED)		1		1																	
4 COND SHIELDED CABLE	PRE-EMPT SENSOR	N/S	1																			
	PRE-EMPT SENSOR	E/W	1																			
WIFI RADIO BELDEN OUTDOOR RATED CAT 5 CABLE			1							1	1											
			1							1	1											
PTZ CAMERA BELDEN OUTDOOR RATED CAT 5 CABLE			1							1	1											
			1							1	1											

POLE & EQUIPMENT SCHEDULE

TRAFFIC SIGNAL CONTROL							REMARKS	LOCATION	
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION					
A							EXISTING TO REMAIN		
B		M-60	ACS-3		M-60 SEE FOUNDATION DTL		CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTROL CABINET AND FOUNDATION. (SEE SPECIAL PROVISIONS)		
POLE NUMBER		MAST ARM		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
		TYPE	SIG	LUM	MTG	FACE			
C		OCS CANTILEVER (SEE DTL)	--	--	(1) TYPE XI T909	(1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS
D		TYPE 'G' T407	--	12'	(1) TYPE XI T909	(1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS. INSTALL PHOTOCELL ON LUM.
E		TYPE 'Q' T412 MOD FOR SHORTER MAST ARM	20'	15'	(2) TYPE II T901 (1) TYPE VII T905 (1) TYPE XI T909	(4) F T801 (1) COUNTDOWN PED	--	T412	250W.120V HPS LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT.
F		OCS CANTILEVER (SEE DTL)	--	--	(1) TYPE XI T909	(1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS
G		TYPE 'Q' T412 MOD FOR SHORTER MAST ARM	15'	10'	(1) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(2) F T801 (1) COUNTDOWN PED	--	T412	250W.120V HPS LUM. W/ FULL CUTOFF. 85W.120V INDUCTION WALKWAY LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. INSTALL WIFI RADIO ON LUMINAIRE MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT. INSTALL PTZ CAMERA ON TOP OF POLE.
H		TYPE 'G' T407	--	12'	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS
I		TYPE 'Q' T412	25'	12'	(2) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(3) F T801 (1) COUNTDOWN PED	--	TYPE 'Q' T412	250W.120V HPS LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT.
J		TYPE 'G' T407	--	12'	(1) TYPE XI T909	(1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS 85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS

- NOTES:
- ALL EQUIPMENT SHALL BE PLACED WITHIN THE RIGHT OF WAY, INCLUDING ALL CONDUIT RUNS.
  - CONDUIT RUNS ARE SHOWN FOR SCHEMATIC PURPOSE, AND SHALL BE PLACED IN A COMMON TRENCH WHERE POSSIBLE.
  - SEPARATE POWER FROM SIGNAL CABLES AS MUCH AS POSSIBLE.
  - 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".
  - THE CONTRACTOR SHALL VERIFY STREET NAME LEGENDS WITH CITY OF TUCSON PRIOR TO ORDERING MOUNT STREET NAME SIGN TO SIDE OF POLE. REFER TO SPECIAL PROVISIONS FOR DETAILS AND SIGNING PLANS FOR SIGN LAYOUT.
  - SIGNAL HEADS ON MAST ARMS SHALL BE CONSTRUCTED OF ALUMINUM. ALL OTHER SIGNAL HEADS SHALL BE POLYCARBONATE.
  - CONTACT TUCSON ELECTRIC POWER CO. 918-8300, TO COORDINATE ELECTRICAL SERVICE CONNECTION.
  - ALL SIGNAL INDICATIONS AND PEDESTRIAN SIGNALS SHALL BE L.E.D.

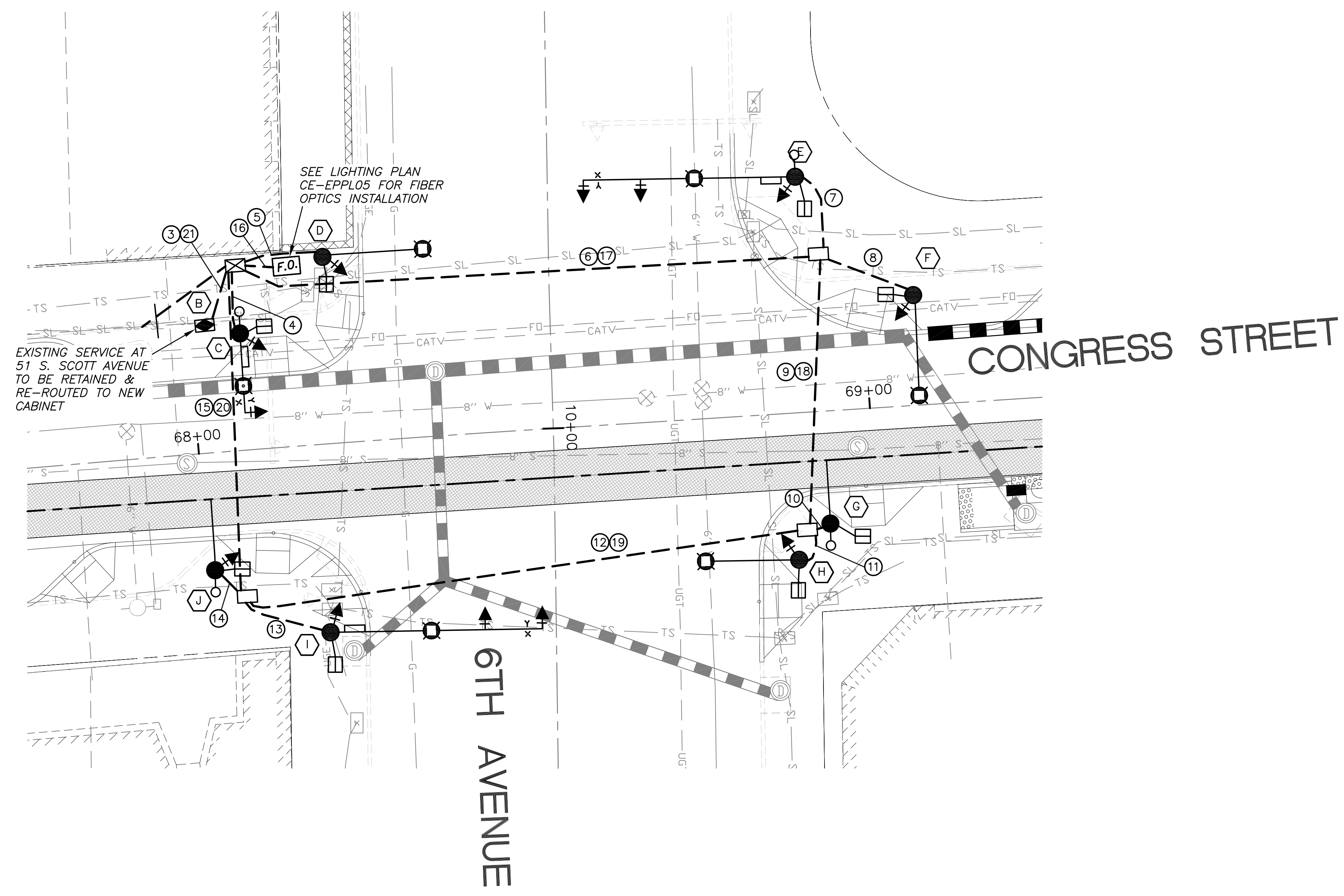
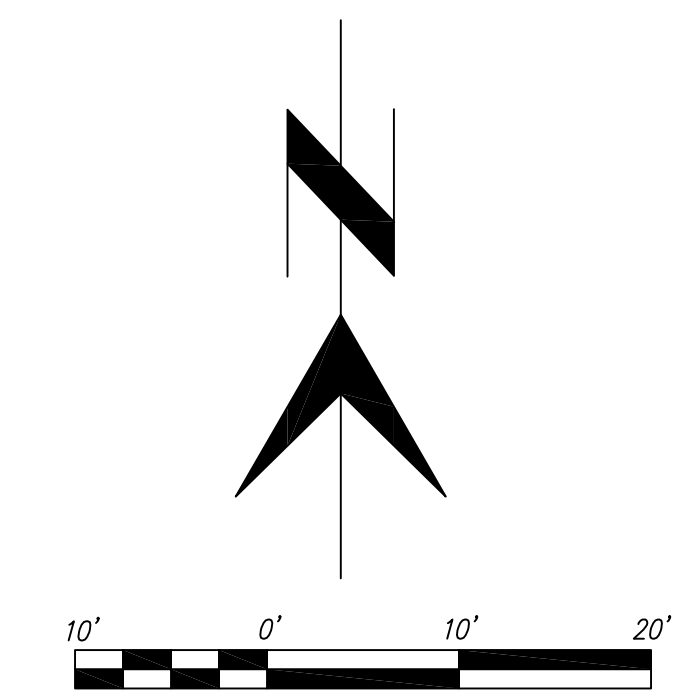


CONGRESS ST/SCOTT AVE CONDUCTOR AND POLE SCHEDULE

<p><b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>114 OF 184</p>
	<p>DRWN. BY V. HO</p> <p>DSGN. BY E. KESSLER</p> <p>CHKD. BY A. BATT</p>	<p>REF. CE-TSCONG4 SCALE: 1"=10'</p> <p>PLAN NO. I-2008-035</p>	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Madsen, Doug



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BLUE STAKE CENTER  
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**CONGRESS ST/6TH AVE  
SIGNAL PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		115 OF 184
		DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-TSINT05 SCALE: 1"=10' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

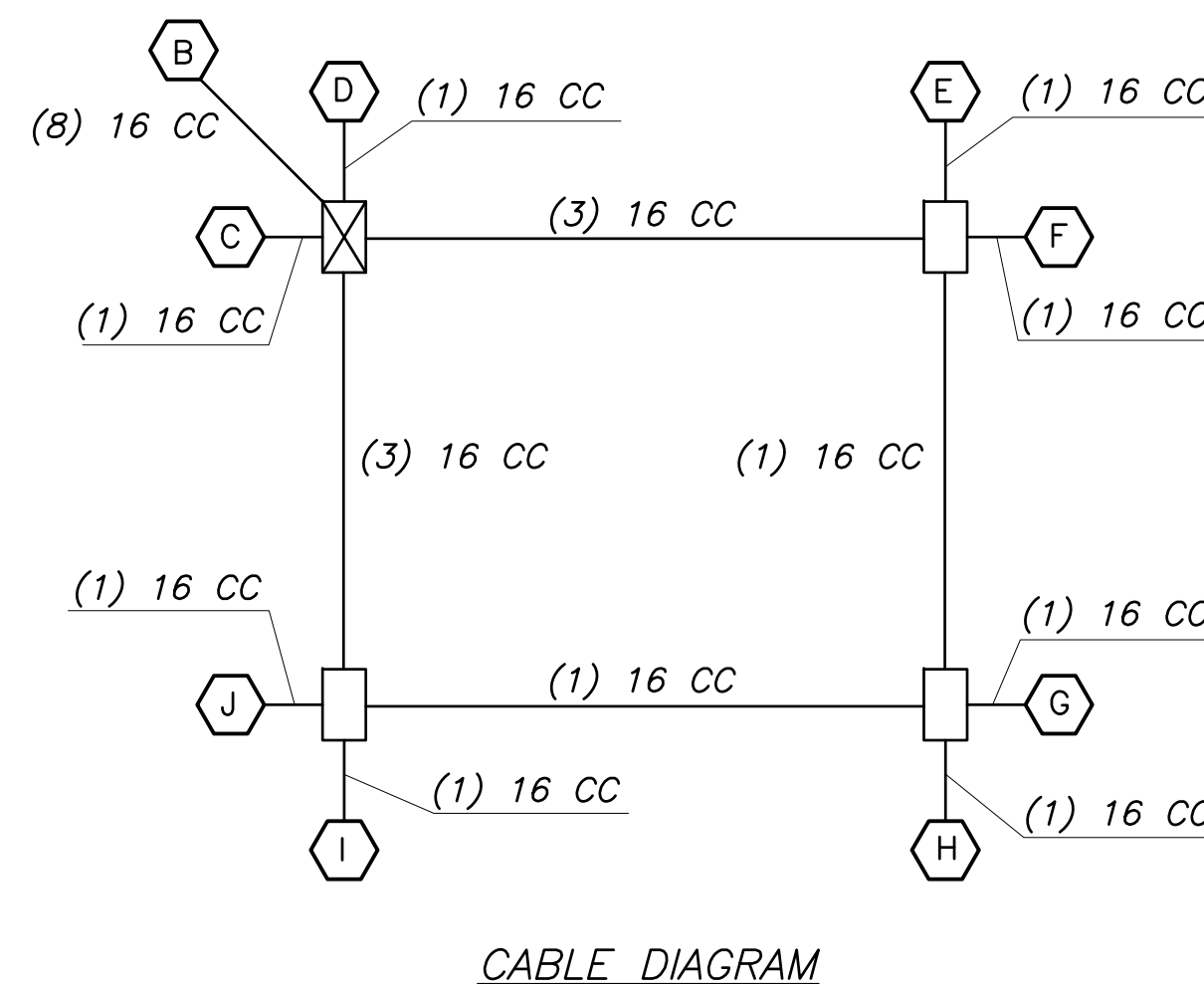
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TRAFFIC CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT AND CONDUCTOR SCHEDULE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
TYPE	CIRCUIT PHASE	2	3(4)	3	3	2(4)	3	2	2(4)	2	2	2(4)	2	3	2(4)	2	2	2	2	2	2	2
#14 16 CONDUCTOR ISMA CABLE	BLACK - PED SIGNAL WALK																					
	WHITE- SIGNAL COMMON																					
	RED- 'A' SIGNAL RED																					
	GREEN- 'A' SIGNAL GREEN																					
	ORANGE- PED PUSH BUTTON																					
	BLUE- 'A' SIGNAL YELLOW																					
	WHITE w/B- LOW VOLTAGE COMMON																					
	RED w/B- 'A' AUX SIGNAL RED																					
	GREEN w/B- 'A' AUX SIGNAL GREEN																					
	ORANGE w/B- SPARE PED PUSH BUTTON																					
	BLUE w/B- 'A' AUX SIGNAL YELLOW																					
	BLACK w/W- PED SIGNAL DON'T WALK																					
	RED w/W- SPARE																					
	GREEN w/W- 'B' SIGNAL LEFT TURN GREEN																					
	ORANGE w/W- SPARE																					
	BLUE w/W- 'B' SIGNAL LEFT TURN YELLOW																					
GROUND	#8 BARE																					
#10 XHHW/THW	STREET LIGHT/ SIGN CIRCUIT #1 (BLK)			1	1		1	1				1	1			1						
	STREET LIGHT/SIGN CIRCUIT #2 (RED)			1		1	1		1						1	1						
	STREET LIGHT COMMON (WHT)			1	1	1	1	1	1			1	1	1	1	1						
	PRE-EMPT BEACON	N/S		1			1	1														
	PRE-EMPT BEACON	E/W		1	1																	
#10 XHHW/THW	WALKWAY LIGHTING CIRCUIT #1 (BLK)			1	1		1				1	1										
	WALKWAY LIGHTING CIRCUIT #2 (RED)			1		1	1								1	1						
	WALKWAY LIGHTING COMMON (WHT)			1	1	1	1	1	1	1					1	1						
3 COND ISMA CABLE	TO PHOTOCELL (BLACK)			1	1																	
	COMMON (WHT)			1	1																	
	FROM PHOTOCELL (RED)			1	1																	
4 COND SHIELDED CABLE	PRE-EMPT SENSOR	N/S		1			1	1														
	PRE-EMPT SENSOR	E/W		1	1																	
WIFI RADIO BELDEN OUTDOOR RATED CAT 5 CABLE				1	1																	
PTZ CAMERA BELDEN OUTDOOR RATED CAT 5 CABLE				1	1																	

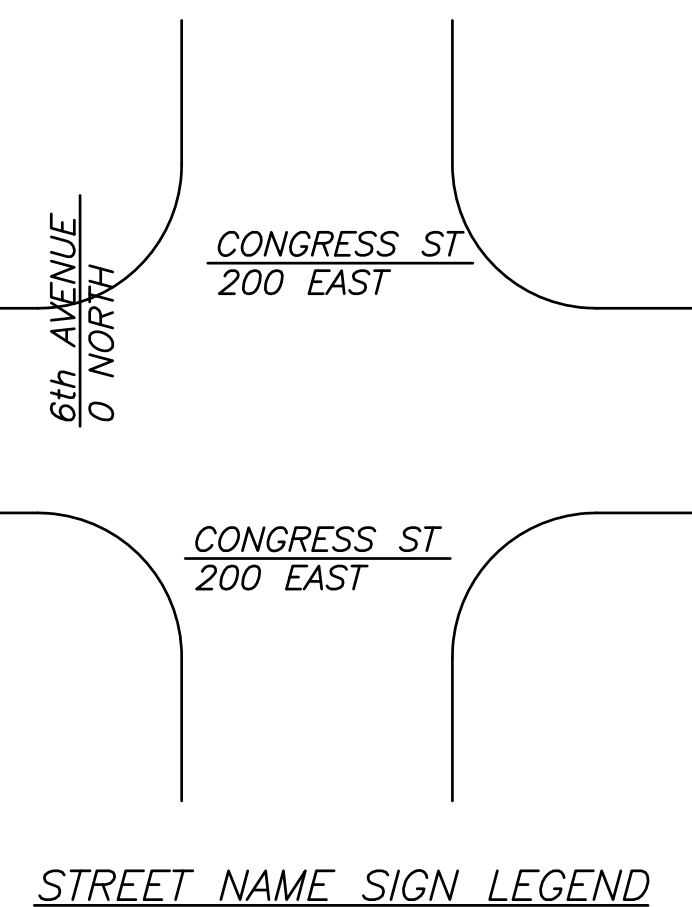
NOTES:

- ALL EQUIPMENT SHALL BE PLACED WITHIN THE RIGHT OF WAY, INCLUDING ALL CONDUIT RUNS.
- CONDUIT RUNS ARE SHOWN FOR SCHEMATIC PURPOSE, AND SHALL BE PLACED IN A COMMON TRENCH WHERE POSSIBLE.
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- ALL SIGNAL INDICATIONS AND PEDESTRIAN SIGNALS SHALL BE L.E.D.



POLE & EQUIPMENT SCHEDULE

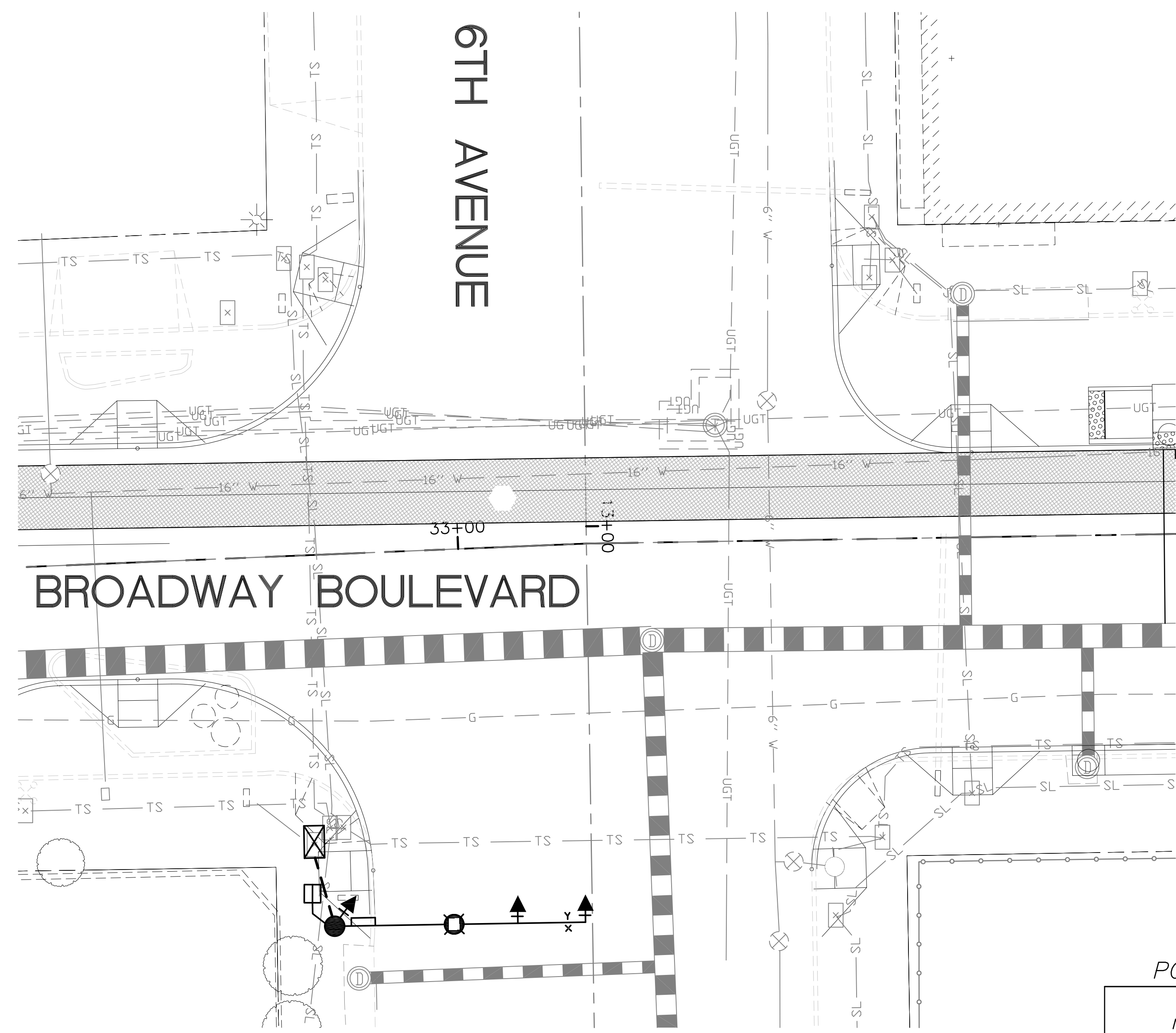
TRAFFIC SIGNAL CONTROL						REMARKS	LOCATION		
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION					
A						EXISTING AT 51 S. SCOTT AVENUE TO REMAIN			
B		M-60	ACS-3		M-60 SEE FOUNDATION DTL	CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTROL CABINET AND FOUNDATION. (SEE SPECIAL PROVISIONS)			
POLE NUMBER	TYPE	MAST ARM		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION
		SIG	LUM	MTG	FACE				
C	TYPE 'F' T412 (MOD FOR SHORTER MAST ARMS)	12'	6'	(1) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(2) F T801 (1) COUNTDOWN PED	--	T412	250W.120V HPS LUM. W/ FULL CUTOFF. 85W.120V INDUCTION WALKWAY LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. INSTALL WIFI RADIO ON LUMINAIRE MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT. INSTALL PTZ CAMERA ON TOP OF POLE.	
D/H	TYPE 'G' T407	--	12'	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	T407	250W.120V HPS LUMINAIRE W/ FULL CUTOFF LENS	
E/I	TYPE 'Q' T412	30'	12'	(2) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(3) F T801 (1) COUNTDOWN PED	--	T412	250W.120V HPS LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT.	
F	TYPE 'G' (MOD FOR WALKWAY LIGHT)	--	12'	(1) TYPE XI T909	(1) COUNTDOWN PED	--	T407	250W.120V HPS LUM. W/ FULL CUTOFF LENS. 85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS.	
G	OCS CANTILEVER (SEE DTL)	--	--	(1) TYPE XI T909	(1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS	
J	OCS CANTILEVER (SEE DTL)	--	--	(1) TYPE V T903 (1) TYPE XI T909	(1) F T801 (1) COUNTDOWN PED	--	OCS CANTILEVER (SEE DTL)	85W.120V INDUCTION WALKWAY LUMINAIRE W/ FULL CUTOFF LENS	



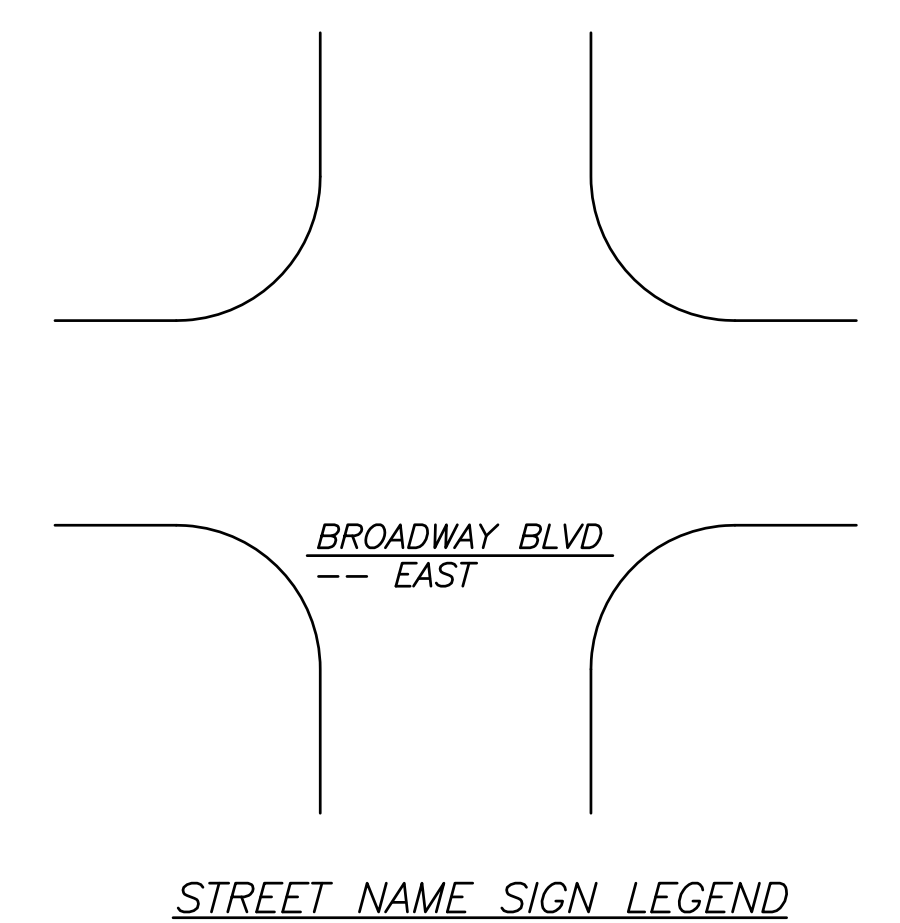
CONGRESS ST/6TH AVE CONDUCTOR AND POLE SCHEDULE

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		116 OF 184
	DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. CE-TSCON05 SCALE: 1"=10' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.



- NOTES:**
1. INTERCEPT CONDUIT FROM NO. 7 PULL BOX TO EXISTING CBD STRUCTURE & RE-ROUTE TO POLE A.
  2. FROM CONTROLLER ON NW CORNER OF INTERSECTION TO NEW POLE A INSTALL NEW #14 16 CONDUCTOR ISMA CABLE, #8 BARE BOND GROUND, 3 #10 XHHW/THW (STREET LIGHTING, PRE-EMPT BEACON) & 4 CONDUCTOR SHIELDED CABLE (PRE-EMPT SENSOR).



**POLE & EQUIPMENT SCHEDULE**

POLE NUMBER	MAST ARM		SIGNALS		PED. P.B.	FOUNDATION	REMARKS	LOCATION	
	TYPE	SIG	LUM	MTG					FACE
A	TYPE 'Q' T412	30'	12'	(2) TYPE II T901 (1) TYPE V T903 (1) TYPE XI T909	(3) F T801 (1) COUNTDOWN PED	--	TYPE 'Q' T412	250W, 120V HPS LUM. W/ FULL CUTOFF. INSTALL PRE-EMPT SENSOR & BEACON ON SIGNAL MAST ARM. MOUNT STREET NAME SIGN ON POLE SHAFT.	BROADWAY BLVD. STA 32+85.51 47' RT

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**BROADWAY BLVD/6TH AVE  
SIGNAL PLAN**

<b>PRELIMINARY</b> 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		117 OF 184
		DRWN. BY V. HO DSGN. BY E. KESSLER CHKD. BY A. BATT	REF. BE-TSINT05 SCALE: 1"=10' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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STRUCTURAL SOIL LEGEND/ STATION AND OFFSET

SOLAR PAVER LIGHT LEGEND/ STATION AND OFFSET

TREE GRATE LEGEND/ STATION AND OFFSET

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1-800-782-5348  
BLUE STAKE CENTER  
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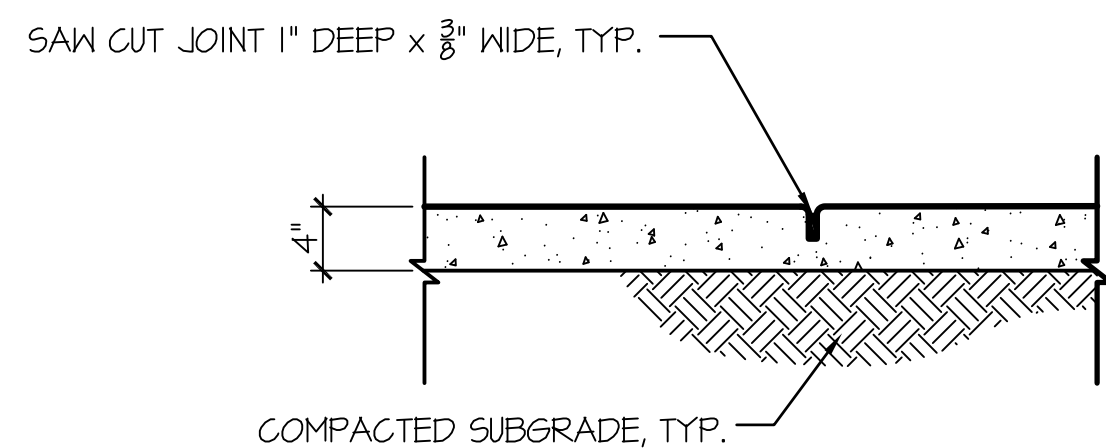
PERVIOUS CONCRETE LEGEND/ STATION AND OFFSET

HARDSCAPE DETAILS

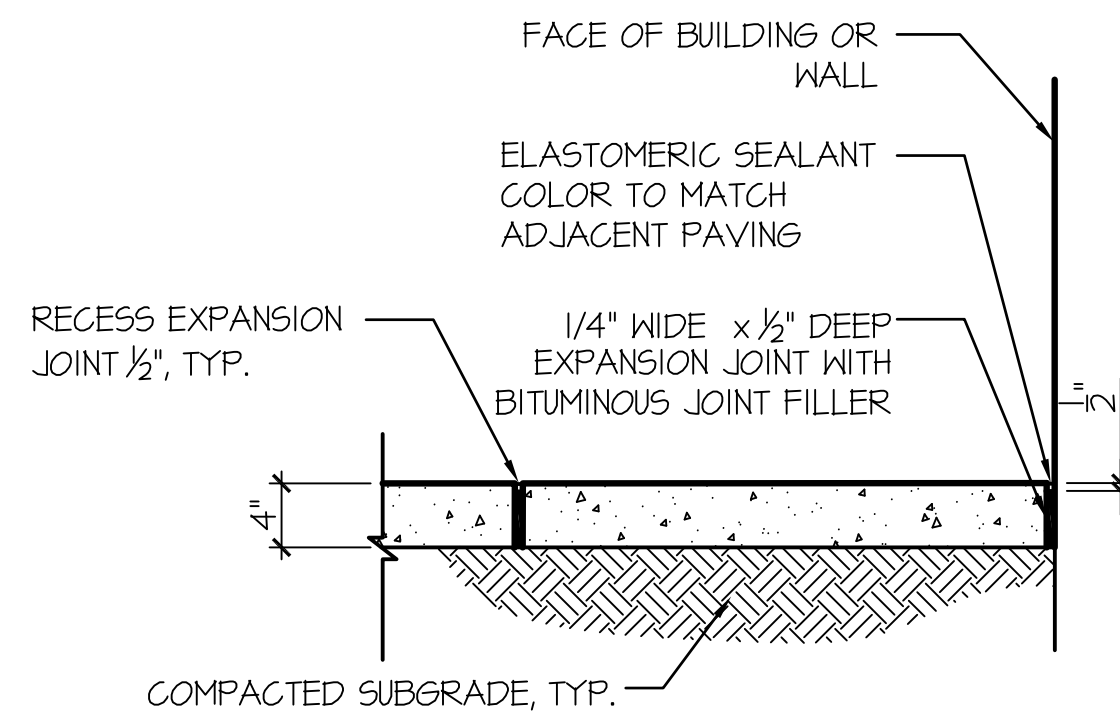
<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		118 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	CITY OF <b>TUCSON</b>	REF. CL-HSDT01 SCALE: PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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Shane - Memo:db  
Meehan, Doug



**CONTROL JOINT**

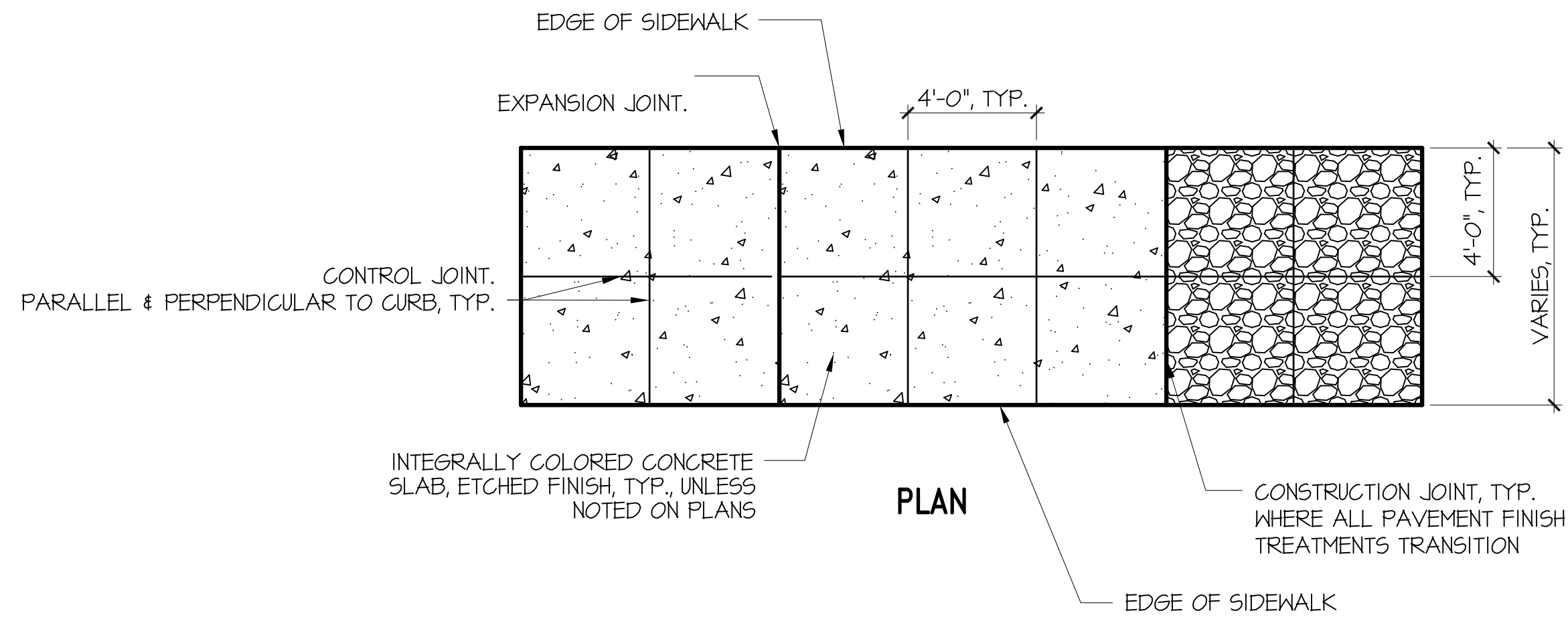


**EXPANSION JOINT**

- NOTES:
1. All concrete walks shall have a minimum cross slope of 1/8" per ft. and a maximum cross slope of 1/4" per ft. unless otherwise noted on plan.
  2. Expansion joints shall be set between sidewalks and all abutting structures. Maximum length of sidewalk without expansion joint shall be 60 linear feet.
  3. Elastomeric sealant color to be approved by Landscape Architect.
  4. Refer to PC/COT Std. Detail 200 and Typical Sections for sidewalk construction.
  5. Refer to specifications for color and finish of concrete.

**1 CONCRETE PAVEMENT JOINTS**

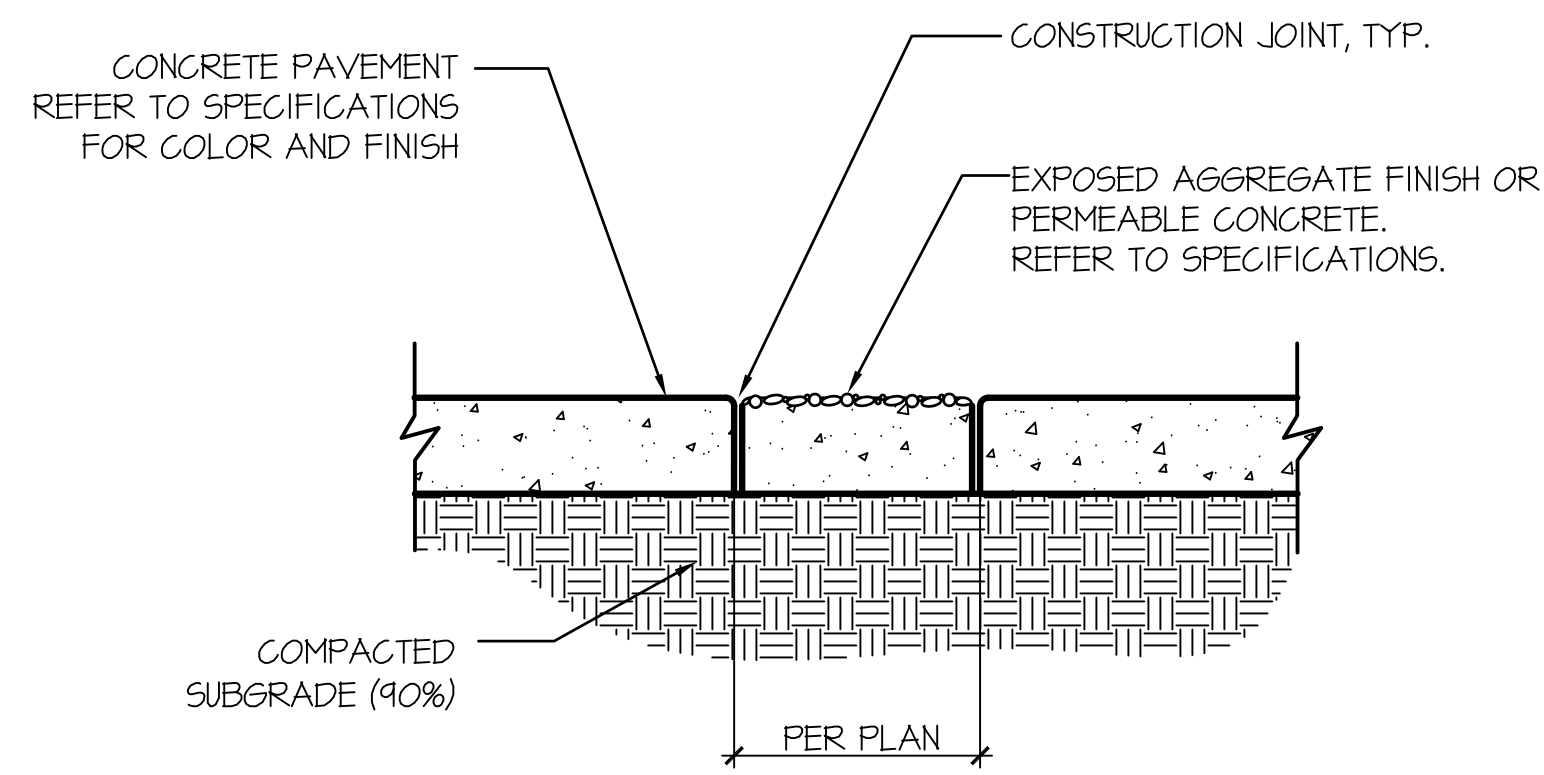
1"=1'-0"



**2 TYPICAL SIDEWALK JOINTS**

1/2"=1'-0"

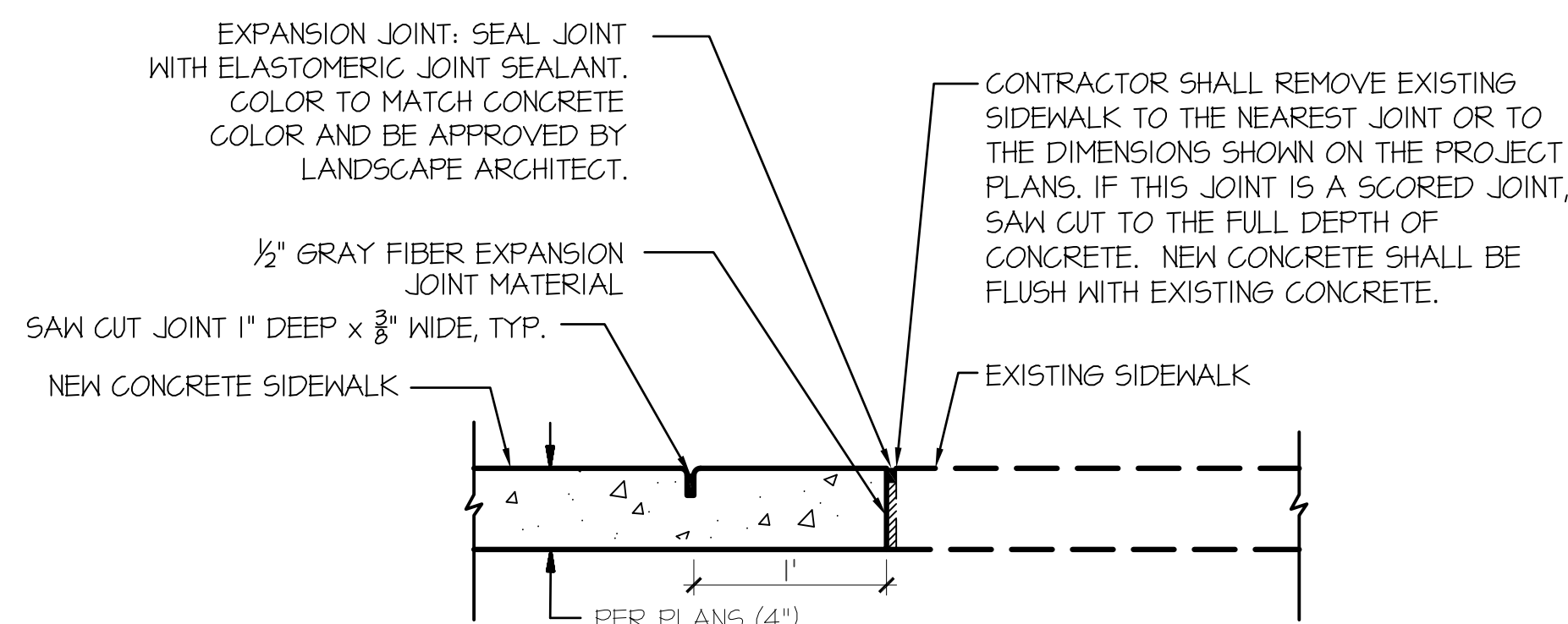
- NOTES:
1. All concrete walks shall have a minimum cross slope of 1/8" per ft. and a maximum cross slope of 1/4" per ft. unless otherwise noted on plan.
  2. Expansion joints shall be set between sidewalks and all abutting structures. Maximum length of sidewalk without expansion shall be 60 linear feet.
  3. Maximum distance between control joints shall be 10 linear feet.
  4. Refer to COT Standard Detail 200 and Typical Sections for Sidewalk Construction.
  5. Refer to specifications for color and finish of concrete.



- NOTES:
1. Refer to COT Standard Detail 200 and Typical Sections for Sidewalk Construction.

**3 CONCRETE PAVEMENT TRANSITIONS**

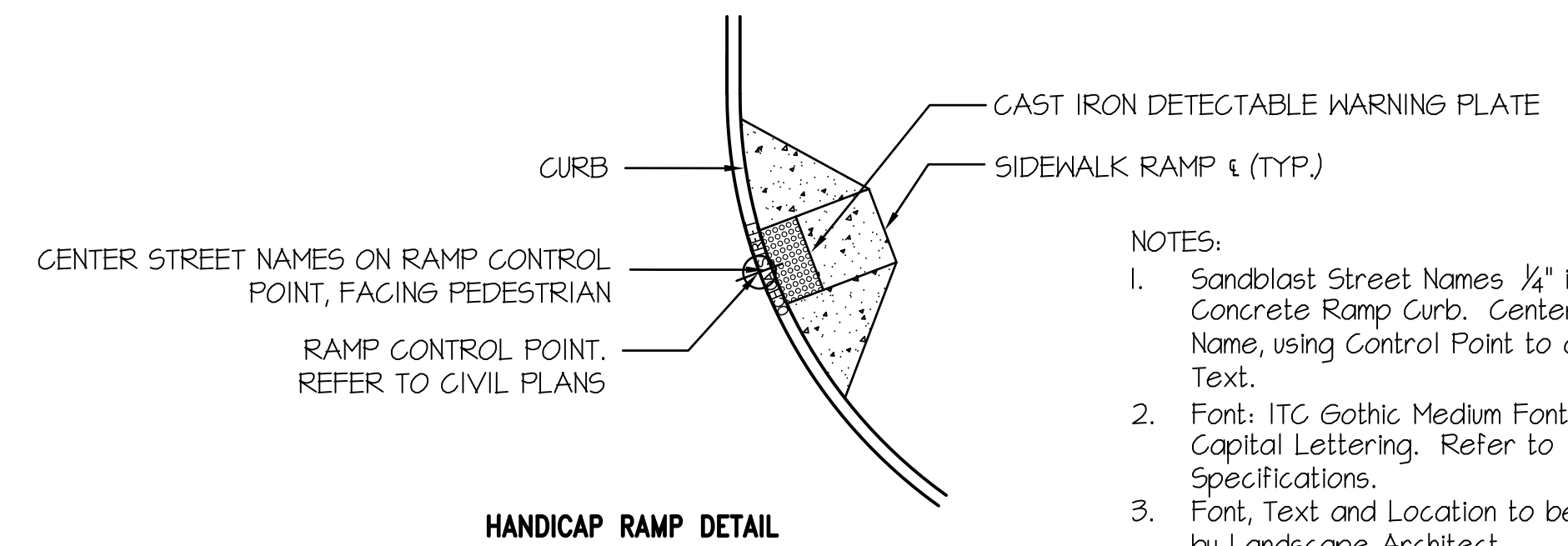
1"=1'-0"



- NOTES:
1. Refer to COT Standard Detail 200 and Typical Sections for Sidewalk Construction.

**4 CONCRETE SIDEWALK TRANSITION TO EXISTING**

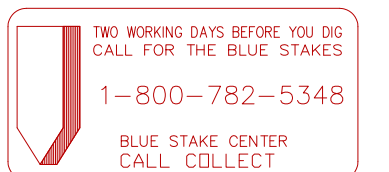
1"=1'-0"



- NOTES:
1. Sandblast Street Names 1/4" into Concrete Ramp Curb. Center Street Name, using Control Point to center the Text.
  2. Font: ITC Gothic Medium Font, 2 1/2" Height. Capital Lettering. Refer to Specifications.
  3. Font, Text and Location to be approved by Landscape Architect.
  4. Refer to Roadway Details for Ramp Construction.

**5 SANDBLASTED STREET NAMES AT RAMPS**

1"=1'-0"

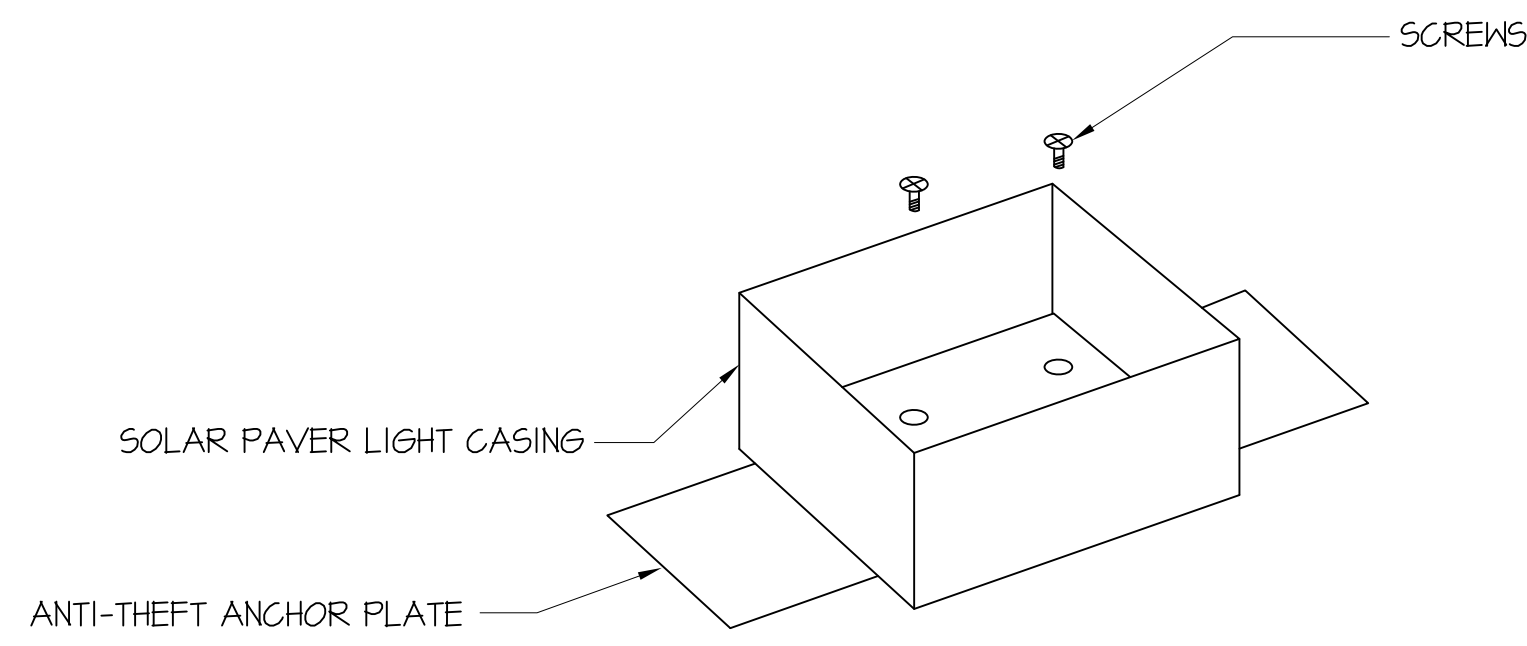


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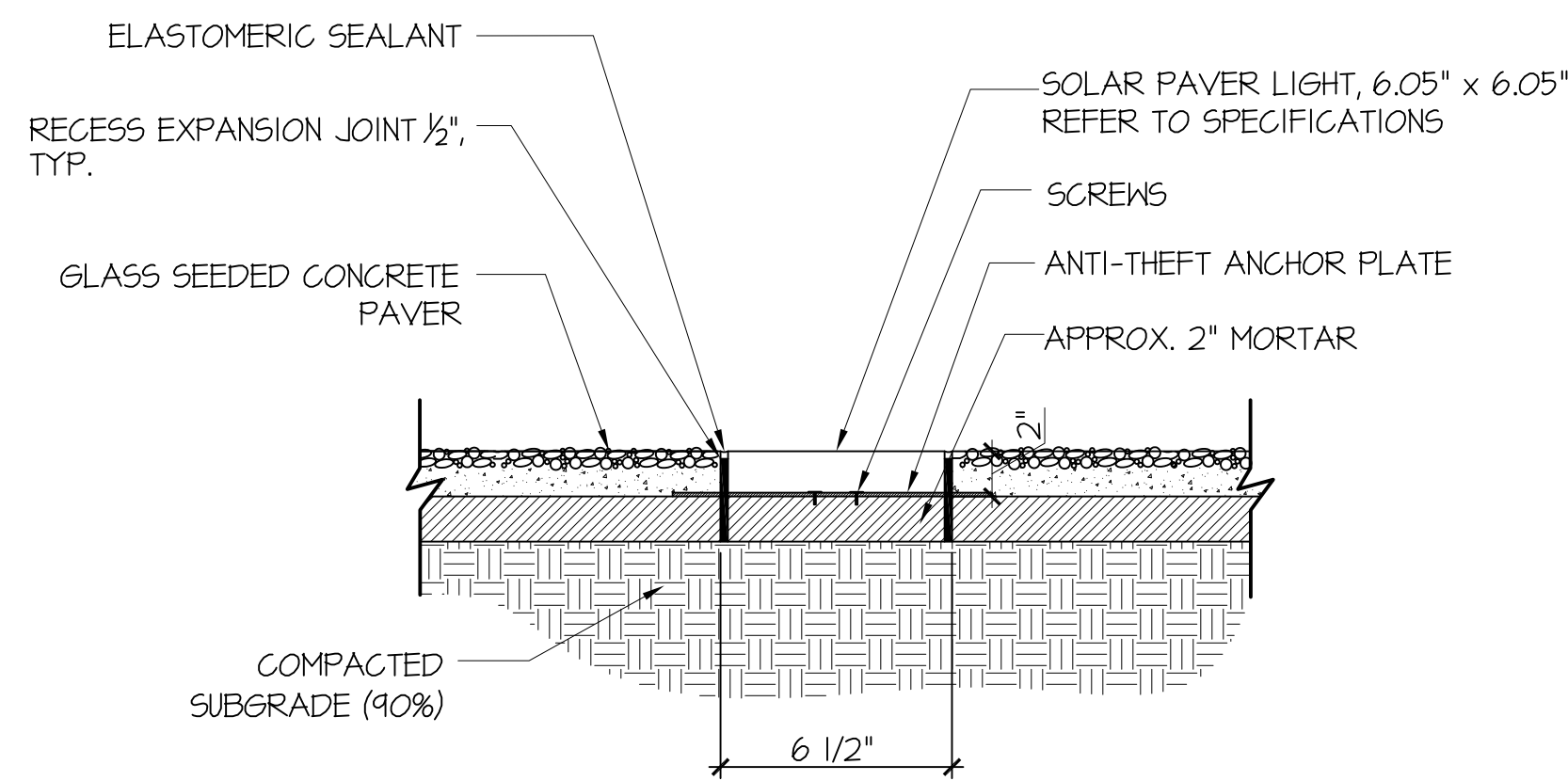
**HARDSCAPE DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		119 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSDT02 SCALE: _____ PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.



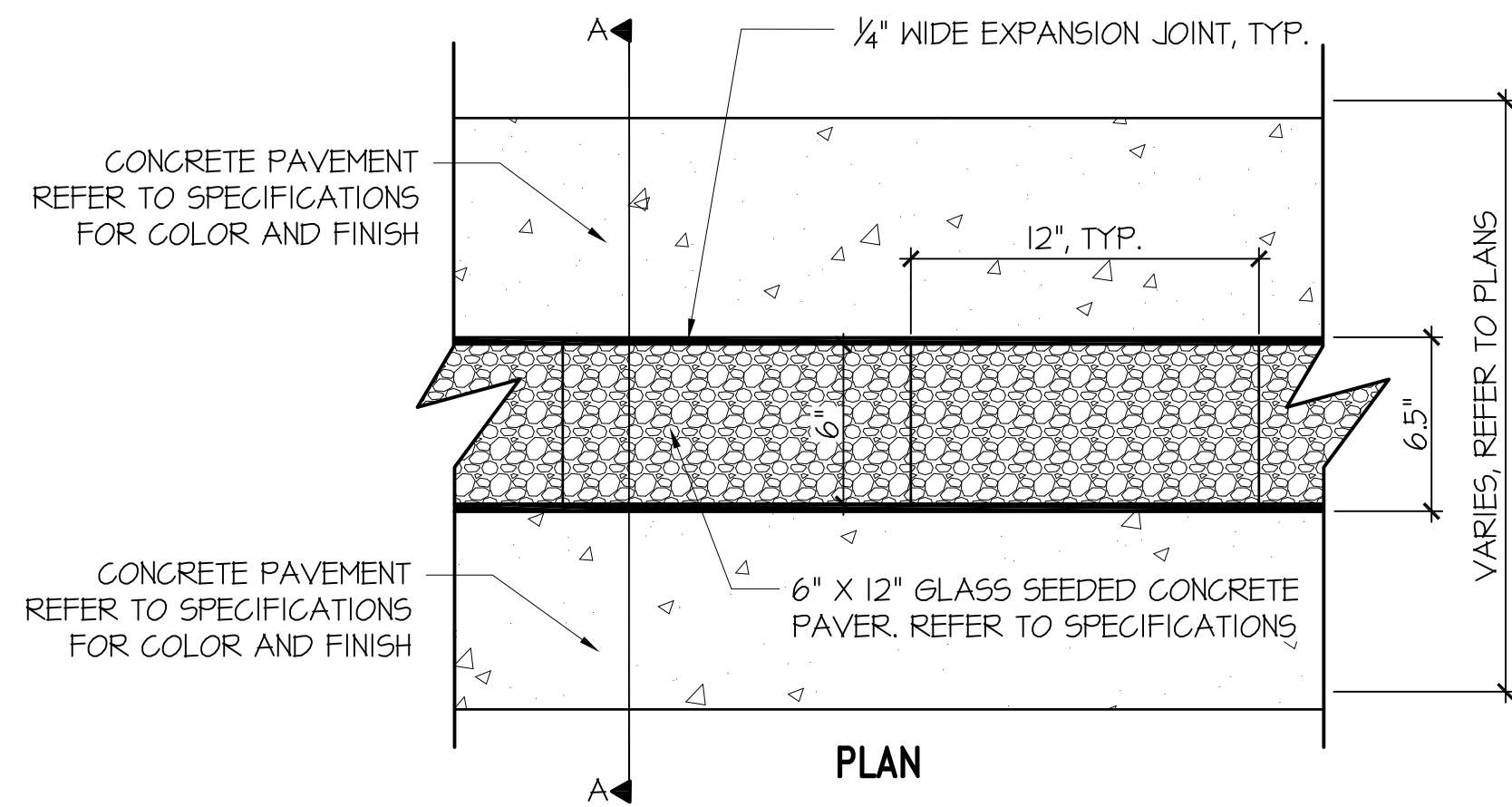
**ANTI-THEFT ANCHOR PLATE AND LIGHT CASING**



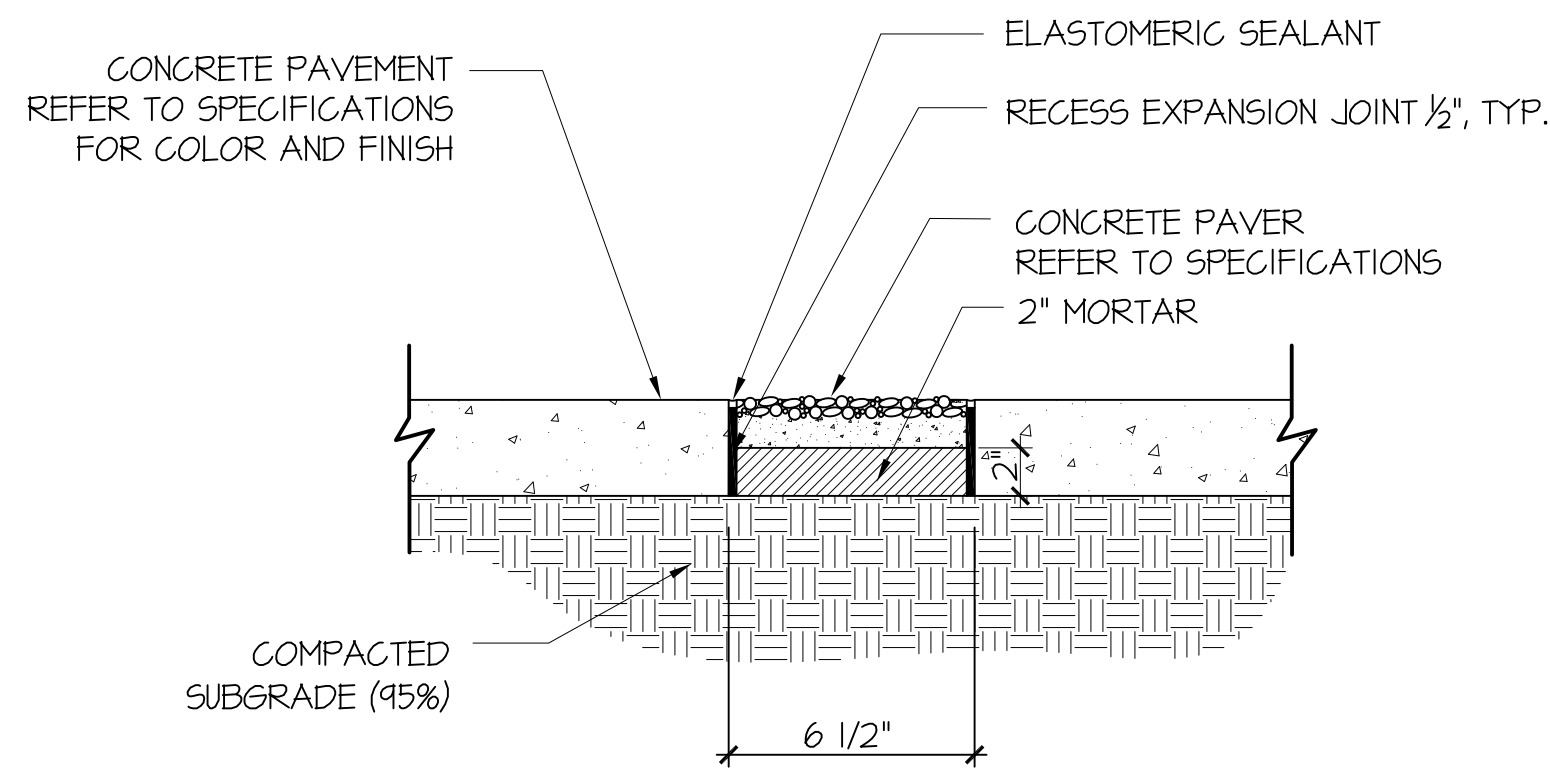
**NOTES:**

1. Expansion joint shall be 1/4" wide with bituminous joint filler, typ.
2. Elastomeric sealant to be placed over bituminous joint filler. Color to match adjacent paving and be approved by Landscape Architect.
3. Install Solar Paver Lights per Manufacturer's Instructions.

**1 SOLAR PAVER LIGHT INSTALLATION** 1"=1'-0"



**PLAN**

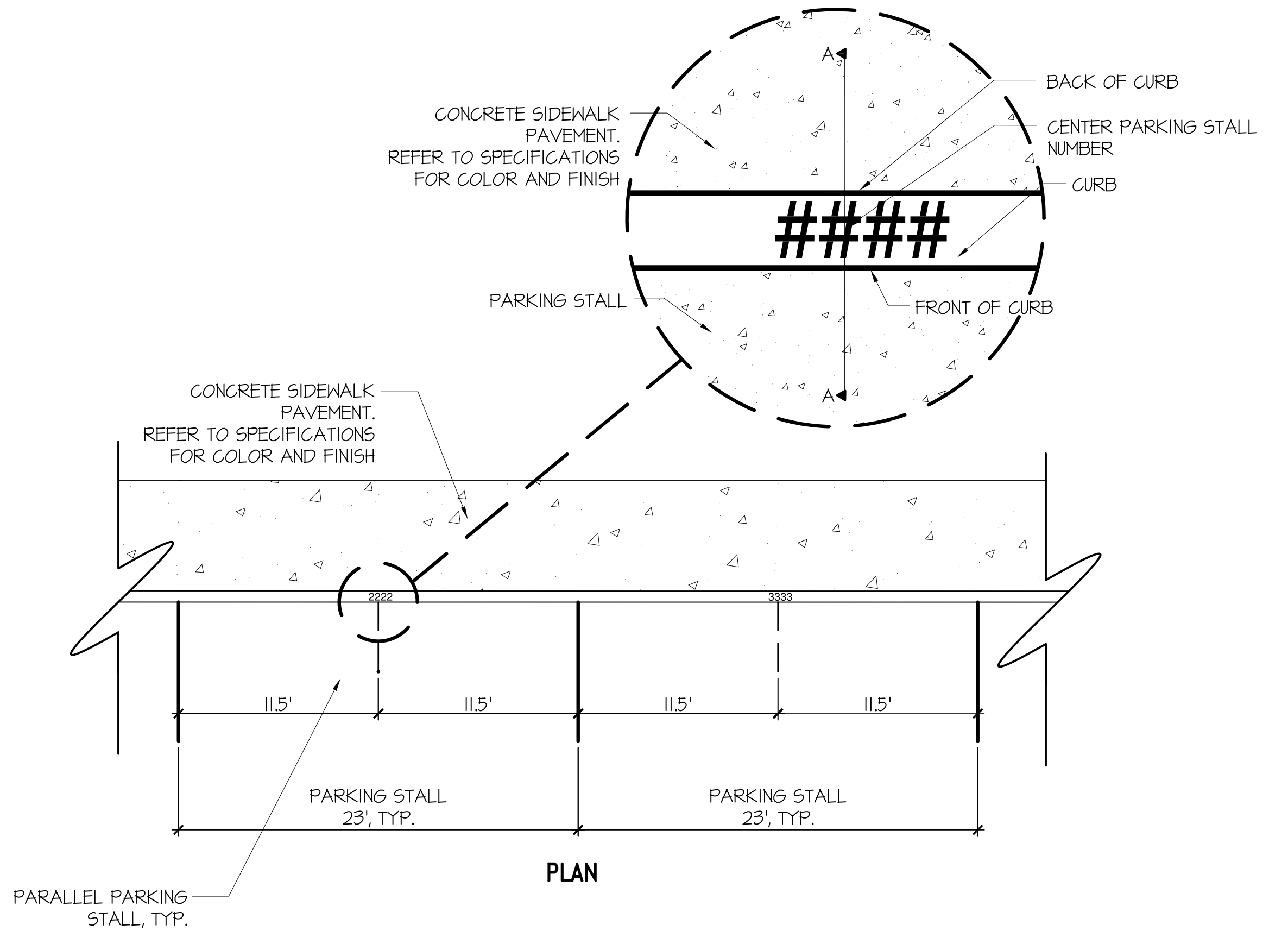


**SECTION A-A**

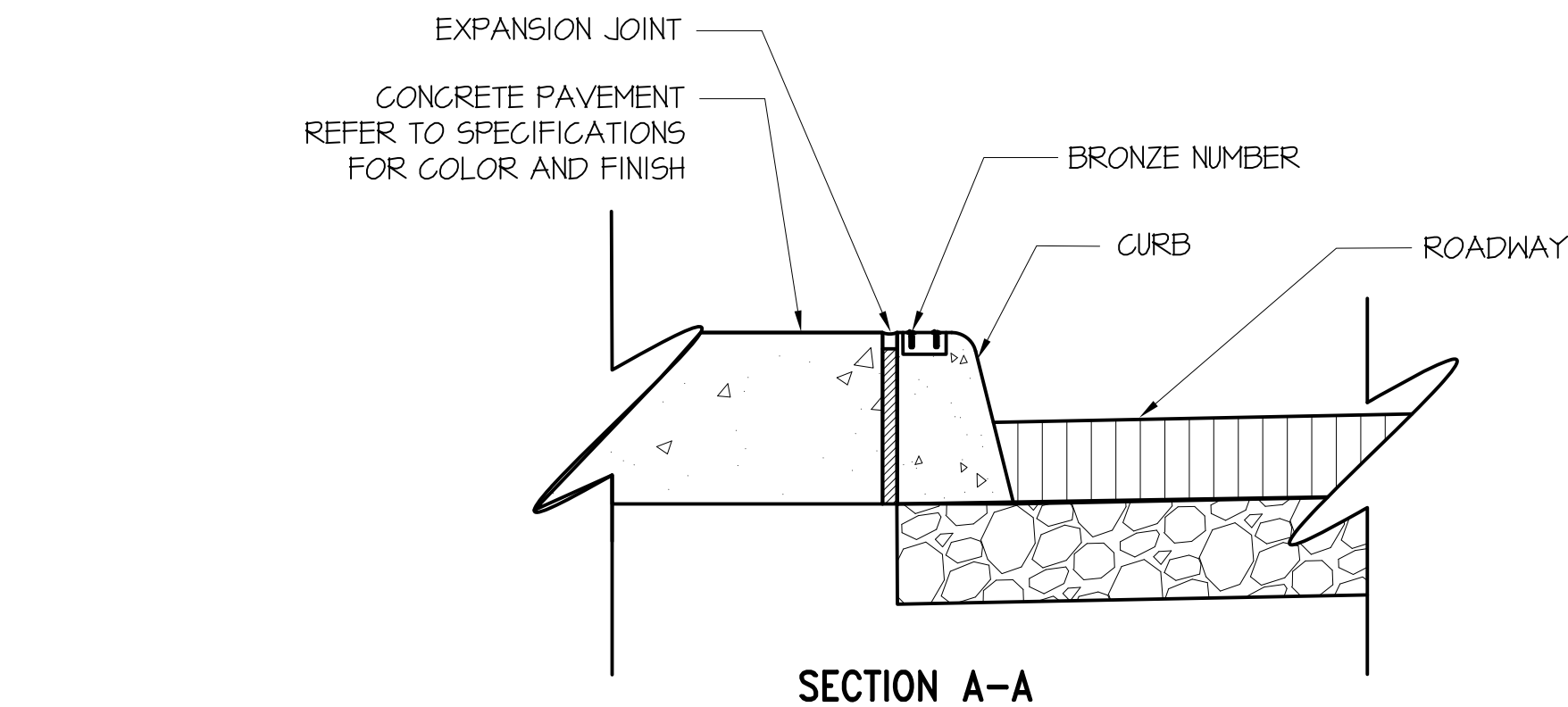
**NOTES:**

1. 1/4" wide expansion joint with bituminous joint filler, typ.
2. Elastomeric sealant to be placed over bituminous joint filler. Color to match adjacent paving and be approved by landscape architect.
3. Sidewalks to be formed or sawcut prior to paver installation.
4. Pavers to be cut in field to 6" wide x 12" long for installation.

**2 GLASS SEEDED CONCRETE PAVER INSTALLATION** 1"=1'-0"



**PLAN**

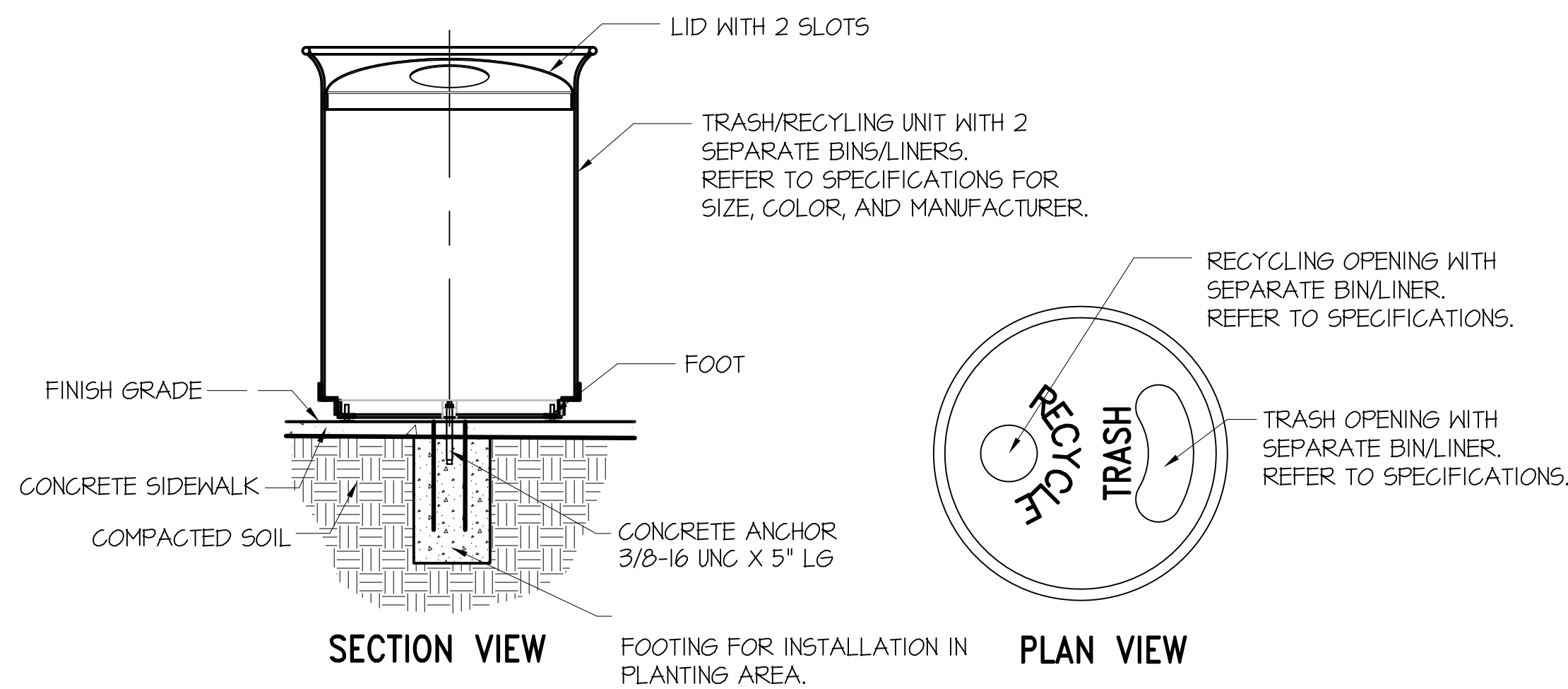


**SECTION A-A**

**NOTES:**

1. Bronze numbers to be installed per manufacturer's instructions.

**3 PARKING STALL NUMBERS** 1"=1'-0"



**SECTION VIEW**

**PLAN VIEW**

**NOTES:**

1. Refer to specifications for manufacturer and color.
2. Install per manufacturer's instructions.

**4 TRASH/RECYCLING UNIT ANCHORING DETAIL** 1"=1'-0"

**BACKFLOW PREVENTER ENCLOSURE**

**HARDSCAPE DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		120 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSDT03 SCALE: _____ PLAN NO. I-2008-035	

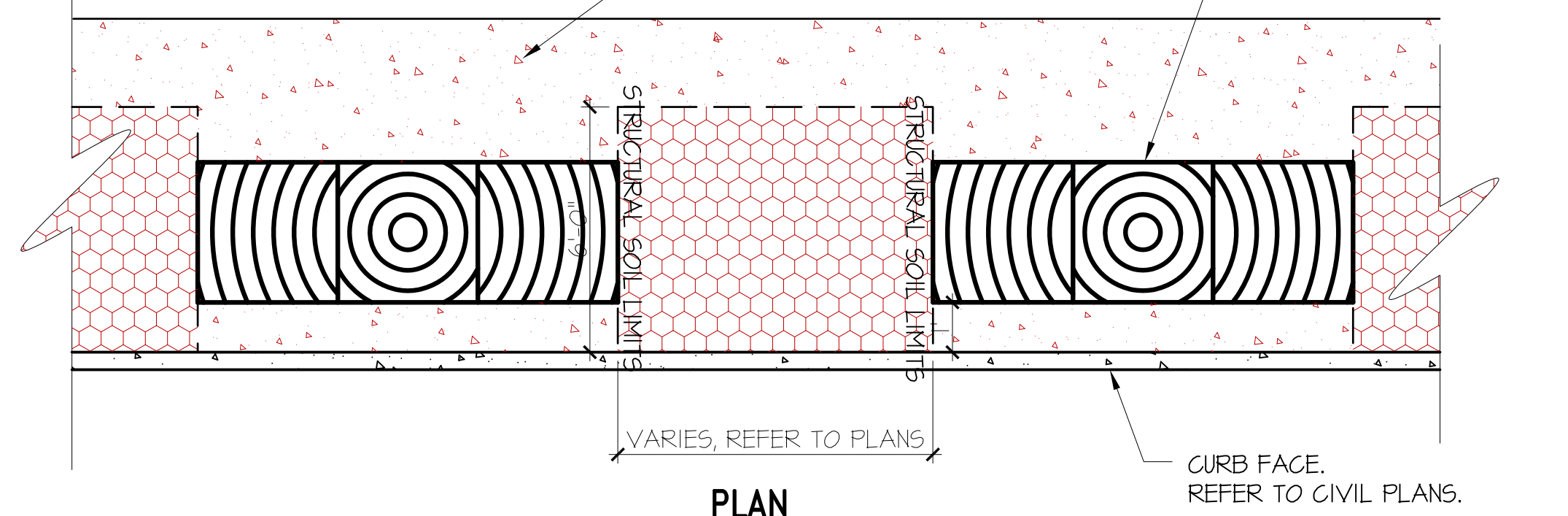
NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Madsen, Doug  
 S:\Users\madsen



NOTE:  
REFER TO CIVIL ENG. PLANS FOR  
ELEVATIONS AND GRADES.



1 STRUCTURAL SOIL  
1/2"=1'-0"

BACKFLOW PREVENTER ENLOSURE DETAIL  
TO BE DEVELOPED

MEDIA CORRAL DETAIL  
TO BE DEVELOPED

FOX STARS REPLACEMENT DETAIL  
TO BE DEVELOPED

STONE SEATING DETAIL  
TO BE DEVELOPED

LANDSCAPE CONTAINER DRAINAGE DETAIL  
TO BE DEVELOPED

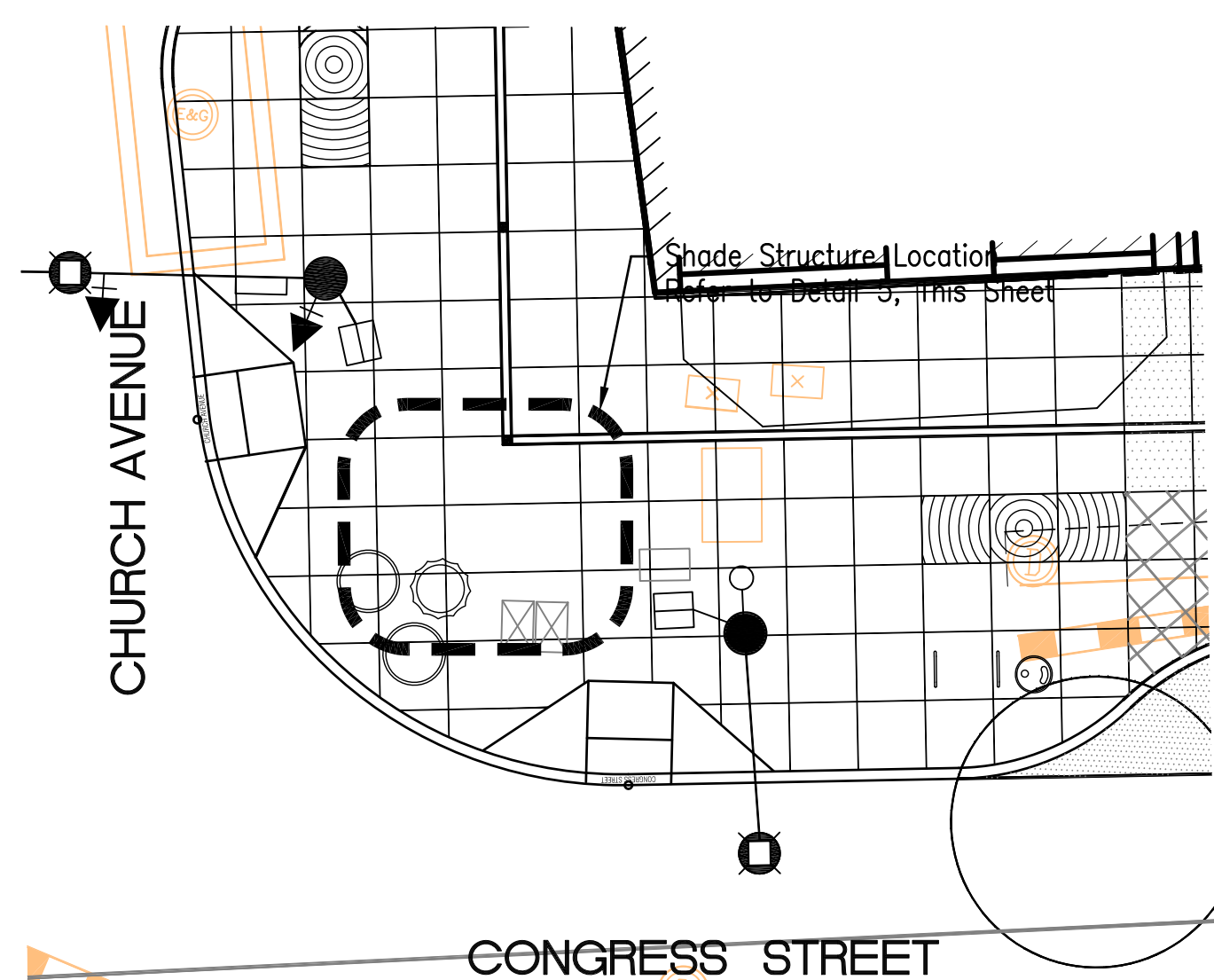


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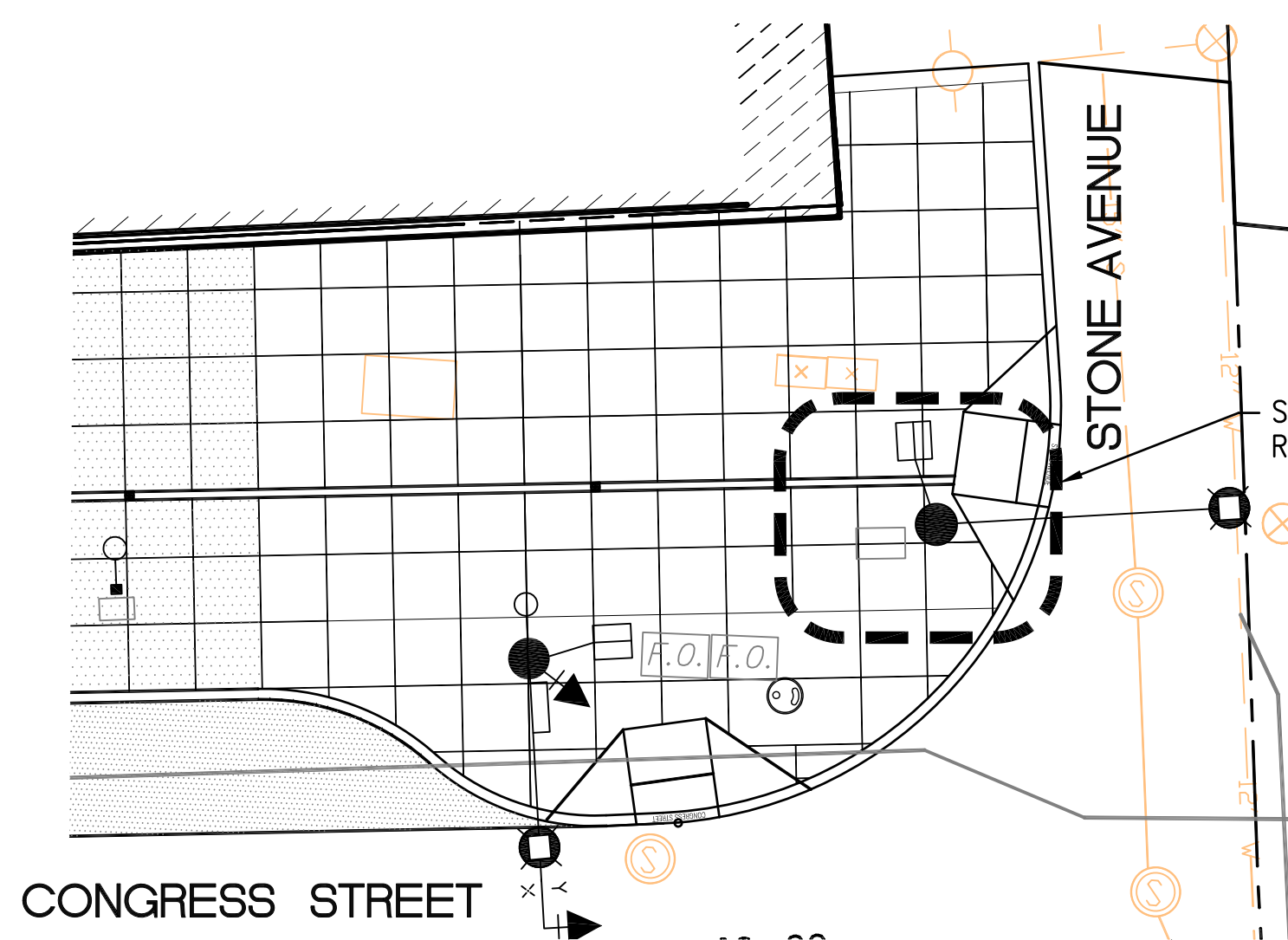
HARDSCAPE DETAILS

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		121 OF 184
		DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSDT04 SCALE: PLAN NO. I-2008-035

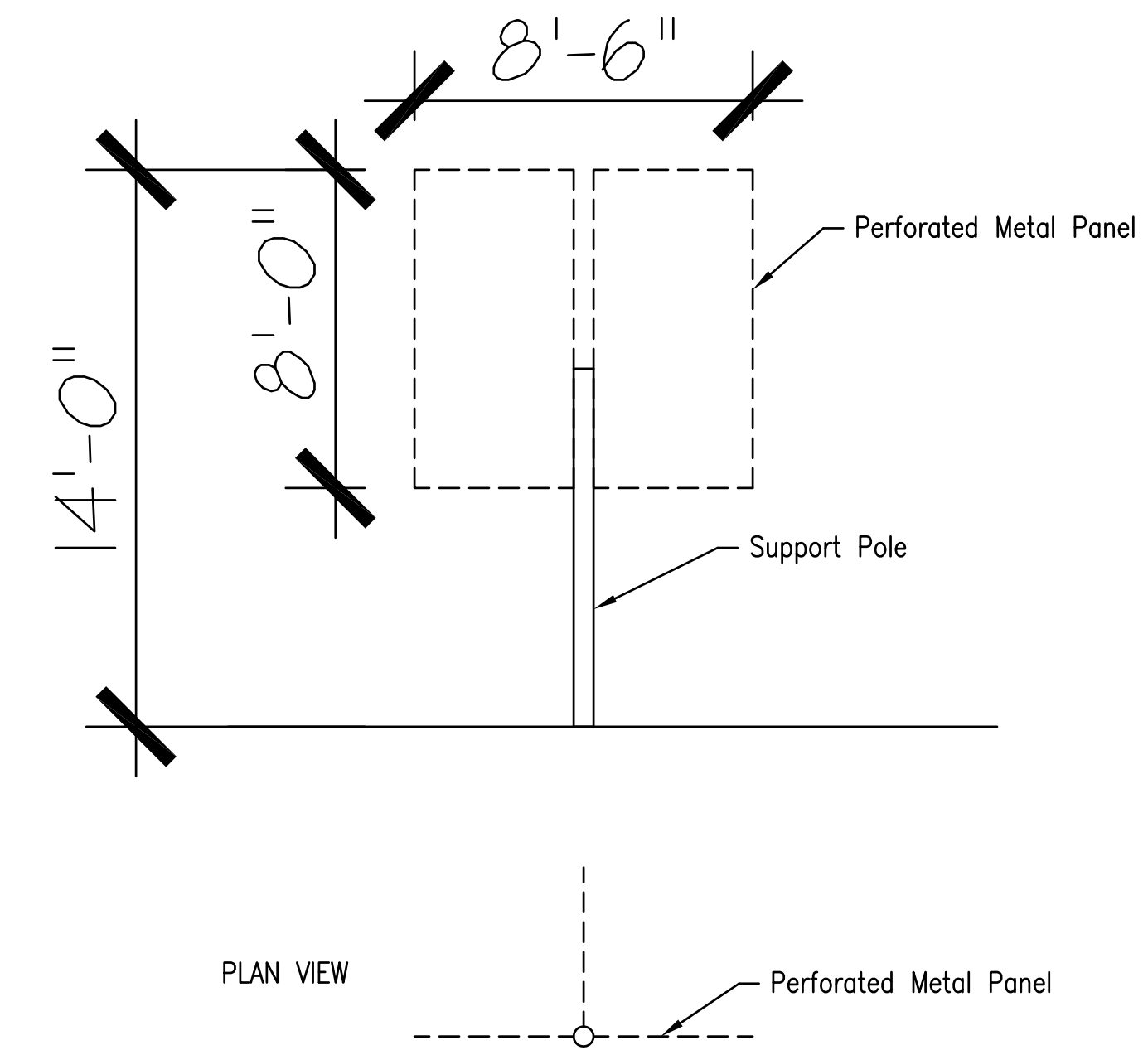
NO.	DATE	REVISION	BY	CHKD.	APPR.



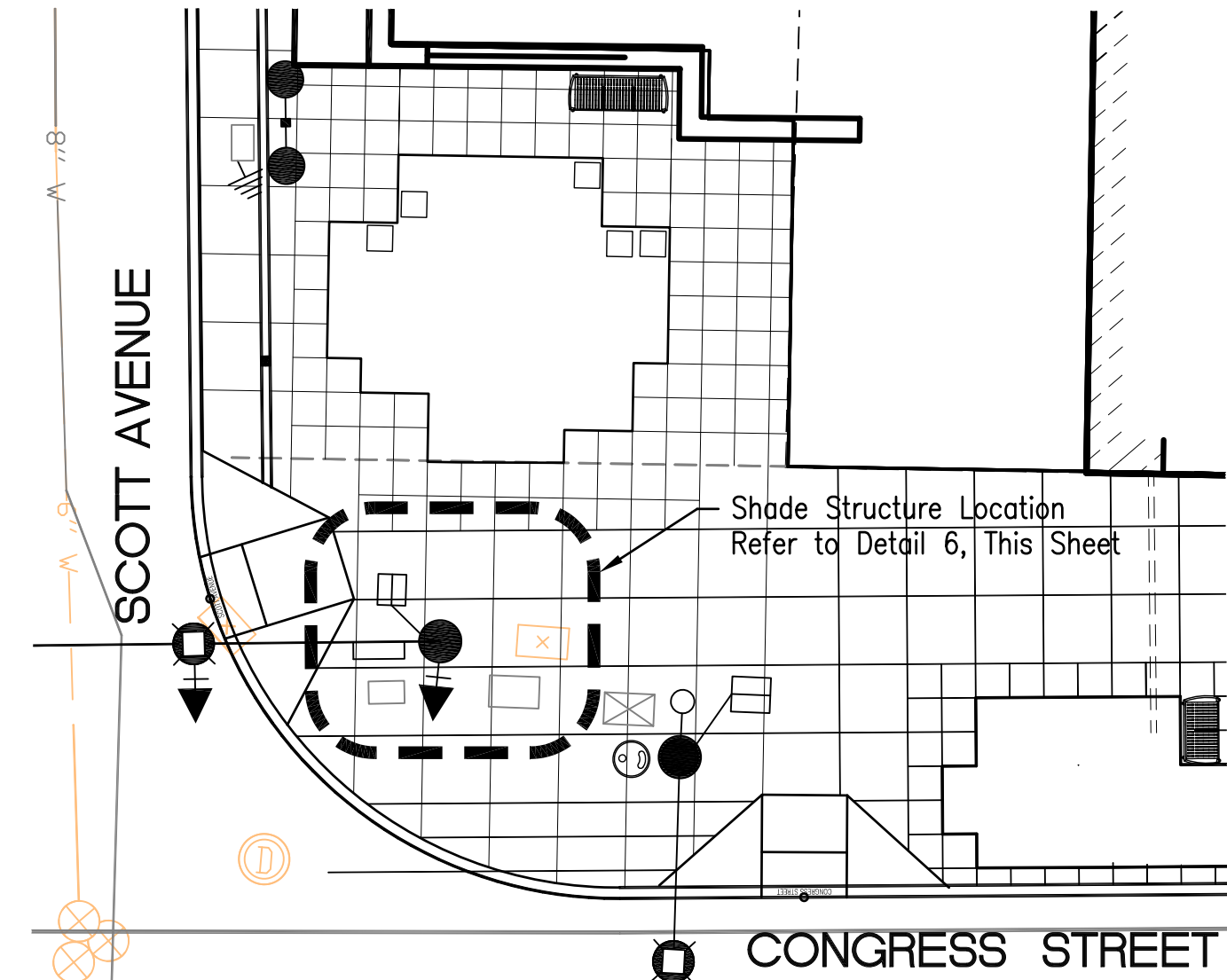
1 SHADE STRUCTURE 'A' 1"=10'-0"



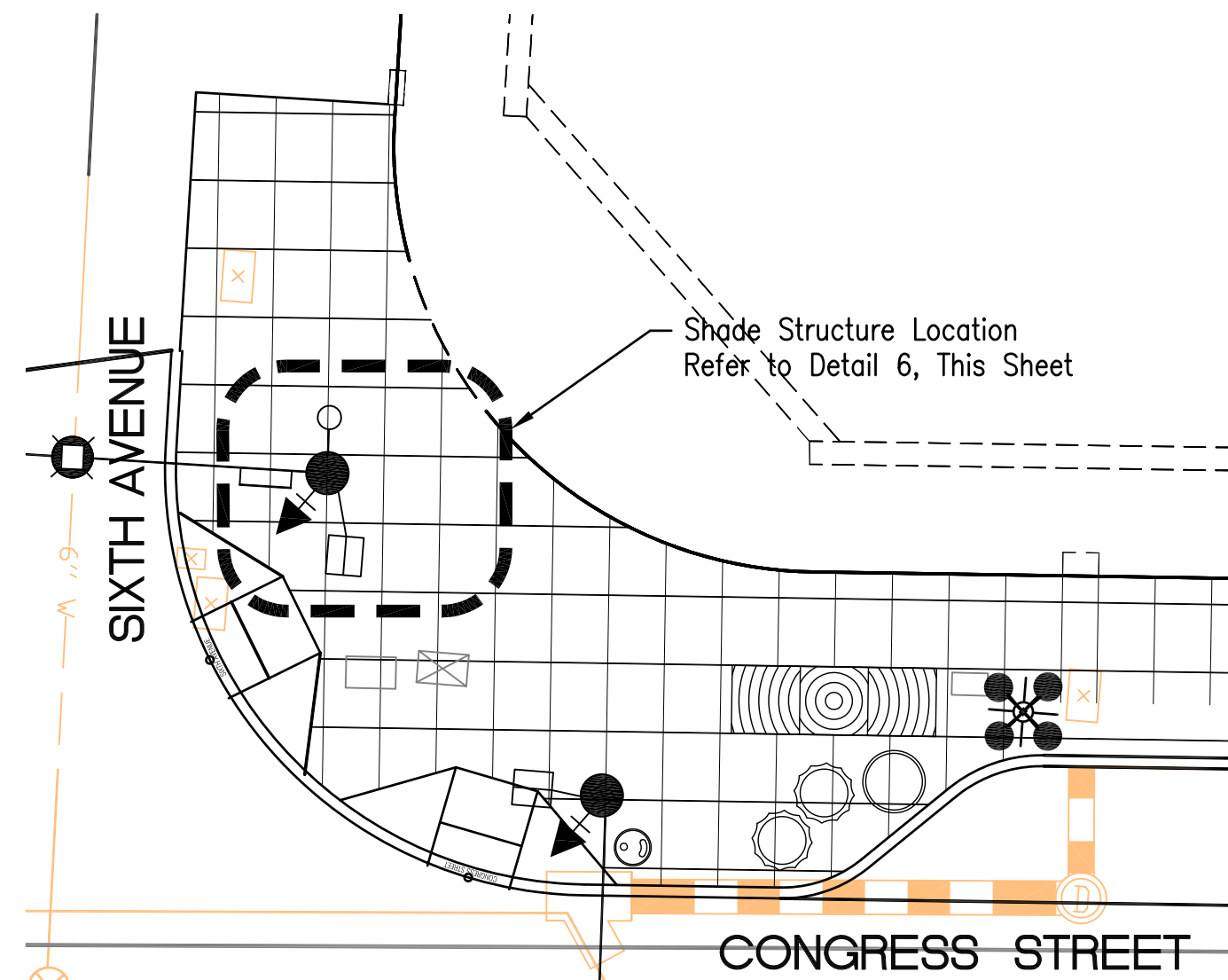
3 SHADE STRUCTURE 'B' 1"=10'-0"



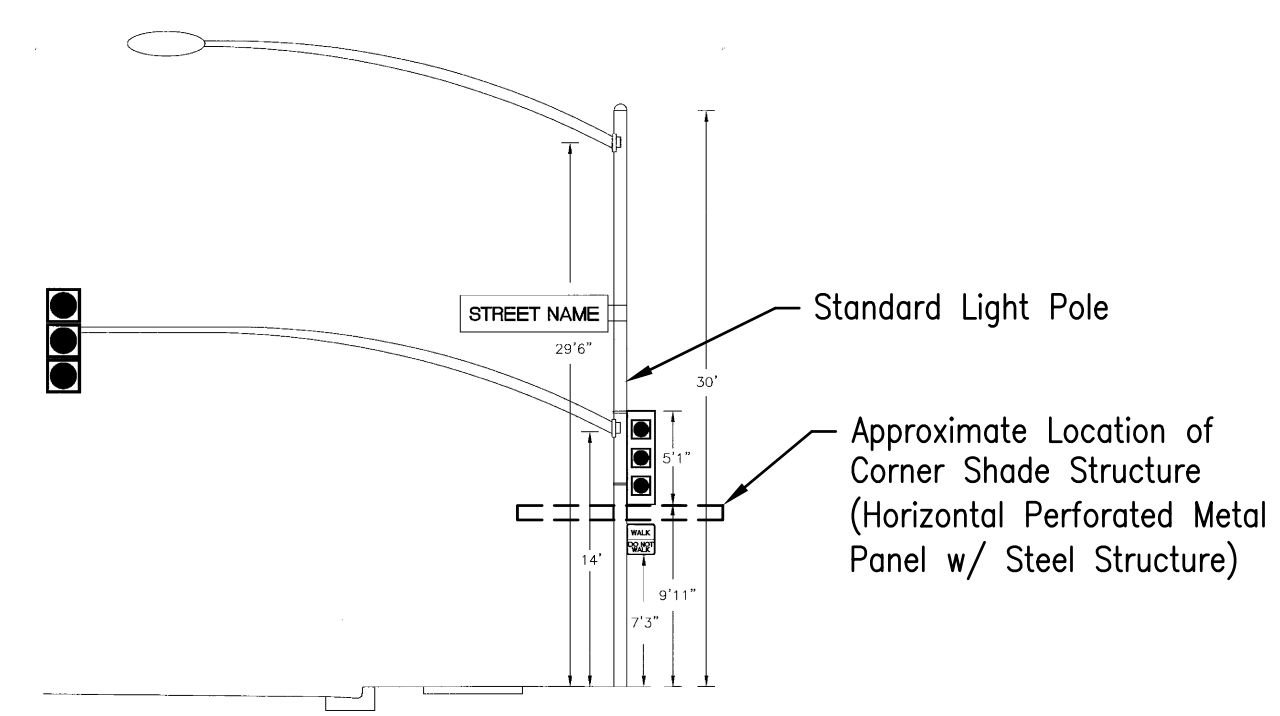
5 ELEVATION - SHADE STRUCTURE 'A' 1"=10'-0"



2 SHADE STRUCTURE 'C' 1"=10'-0"



4 SHADE STRUCTURE 'D' 1"=10'-0"



6 ELEVATION - SHADE STRUCTURE 'B', 'C', 'D' 1"=10'-0"

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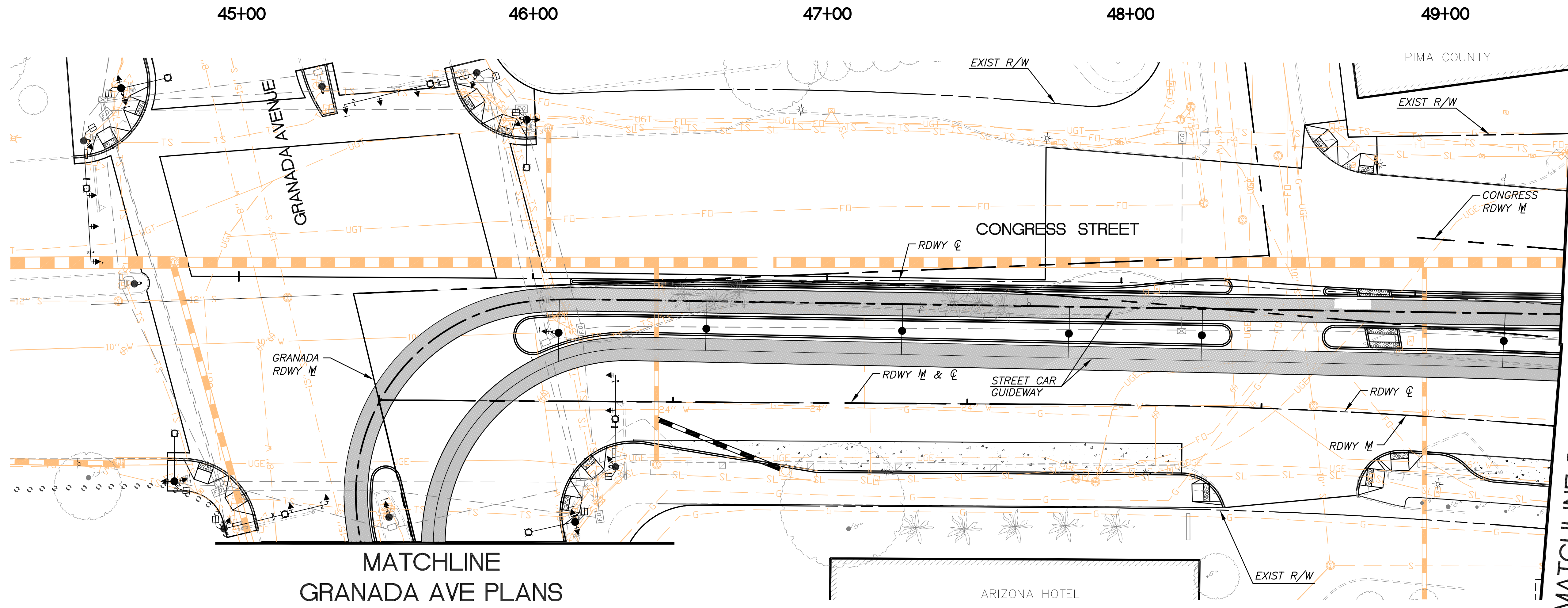
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**HARDSCAPE DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		122 OF 184
		DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSDT05 SCALE: 1"=20' PLAN NO. I-2008-035

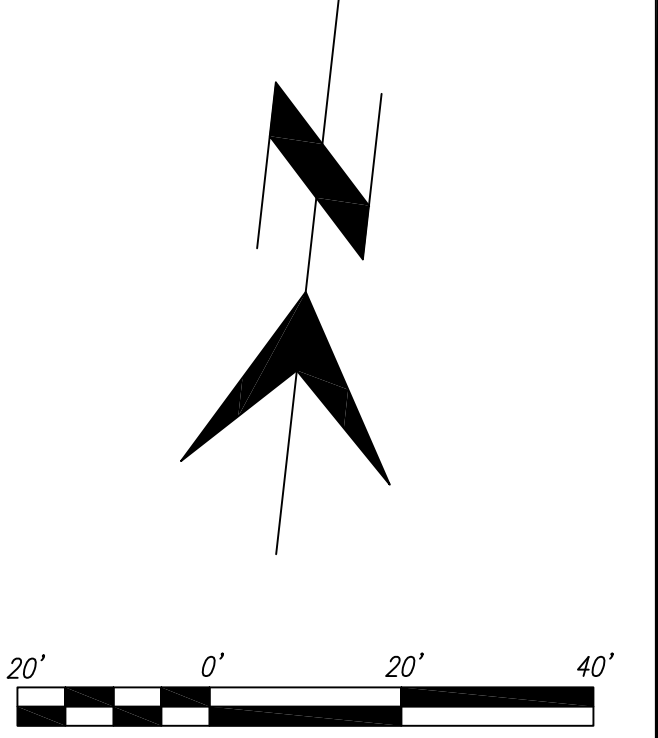
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MATCHLINE  
GRANADA AVE PLANS

MATCHLINE STA 14+00 MATCHLINE STA 49+50  
SEE DWG. BL-HSPL02 SEE DWG. CL-HSPL02



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 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

**HARDSCAPE PLAN**

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		123 OF 184
DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSPL01 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

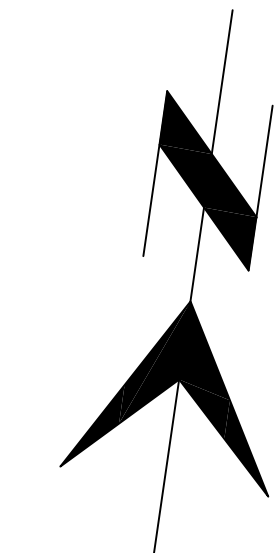
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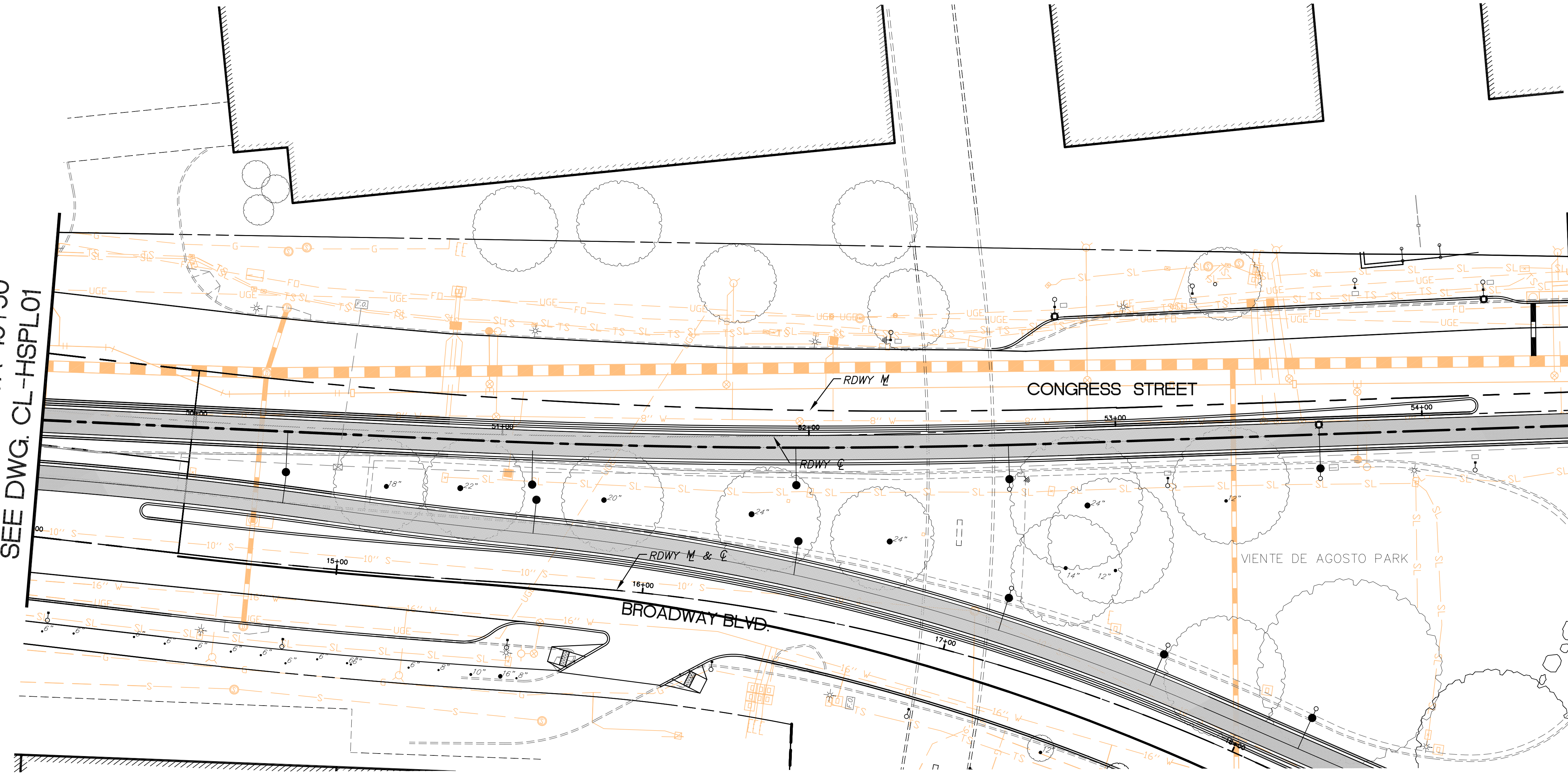
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54+00



MATCHLINE STA 49+50  
SEE DWG. CL-HSPL01

MATCHLINE STA 54+50  
SEE DWG. CL-HSPL03



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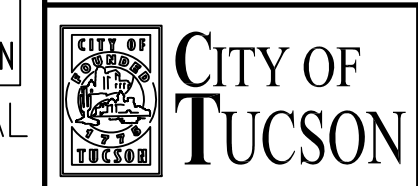
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### HARDSCAPE PLAN

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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

124  
OF  
184



DRWN. BY H. FLUGSTAD  
DSGN. BY L. RIBES, H.F., C.M.  
CHKD. BY L. RIBES

REF. CL-HSPL02 SCALE: 1"=20'

PLAN NO. I-2008-035

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PIMA COUNTY

CHURCH AVENUE

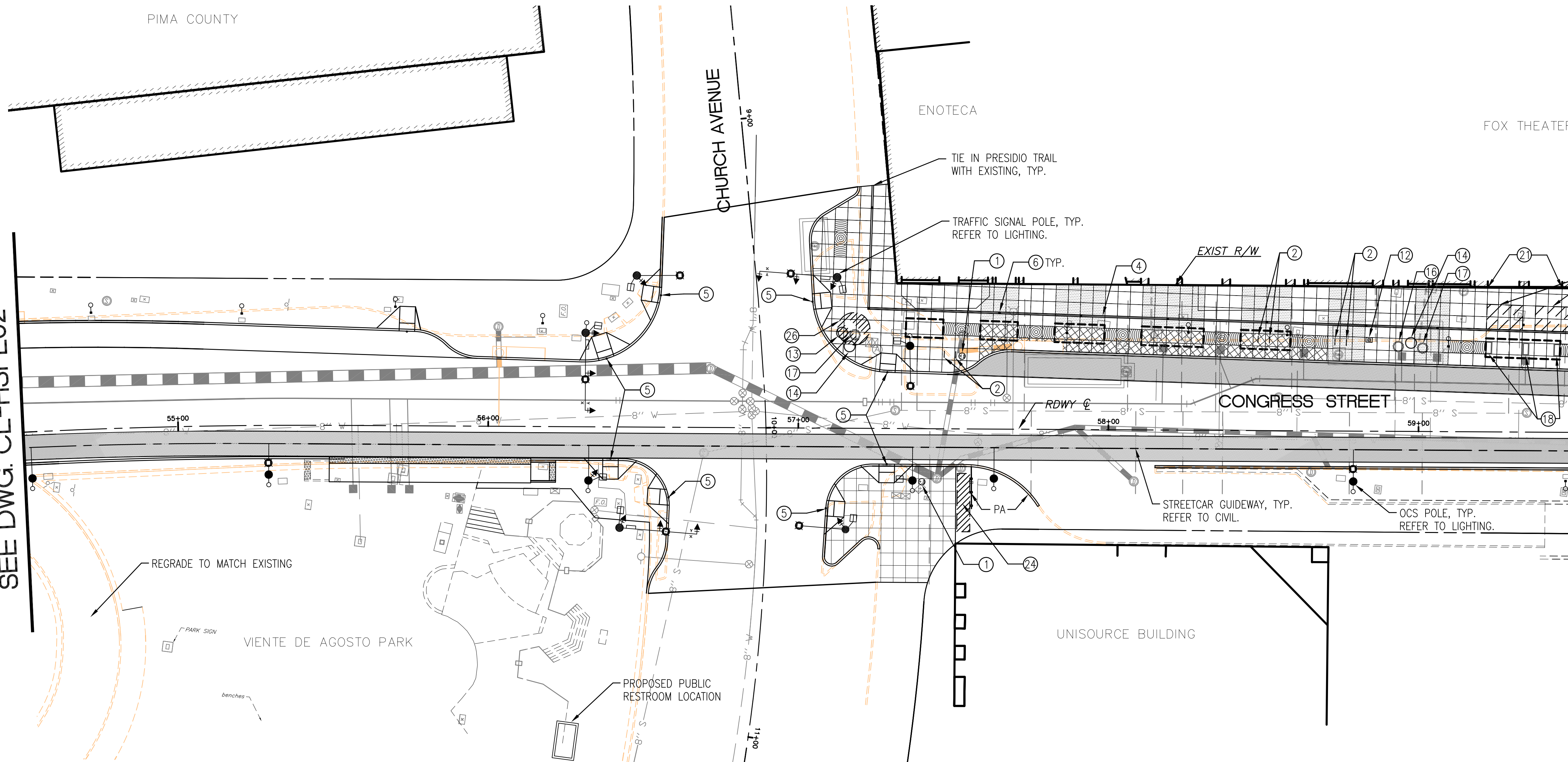
ENOTECA

FOX THEATER



MATCHLINE STA 54+50  
SEE DWG. CL-HSPL02

MATCHLINE STA 59+50  
SEE DWG. CL-HSPL04



**MATERIAL LEGEND**

SYMBOL	MATERIAL	UNIT	QTY.
[Solid Grey Box]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR TBD, FINISH TBD	SY	
[Dotted Grey Box]	INTEGRALLY COLORED CONCRETE, EXPOSED AGGREGATE FINISH, DAVIS COLOR TBD	SY	
[Cross-hatched Box]	INTEGRALLY COLORED PERVIOUS CONCRETE, DAVIS COLOR TBD. REFER TO TYPICAL SECTIONS.	SY	
[Diagonal Lines Box]	GLASS SEEDED CONCRETE PAVER	LF	
[Circle with Dots Box]	TREE GRATE 4' x 12'	EA	
[Dashed Box]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	
PA	PLANTING AREA		

QUANTITIES PROVIDED ARE ESTIMATES AND ARE INTENDED AS A REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES.

**GENERAL NOTES - HARDSCAPE**

- Sidewalk paving shall be sloped to drain to planting areas.
- All sidewalks and ramps shall be integrally colored concrete, Davis Colors TBD, unless otherwise noted. Refer to Specifications.
- Screened rock to be placed in all planting and non-paved areas. Refer to Specifications.
- Refer to Civil Plans for roadway layout, ramps, curb cuts and curbs.

**KEYNOTES**

- Trash/Recycling Receptacle. Refer to Hardscape Detail 4, Sheet CL-HSDT03 and Specifications.
- Salvage and Reuse Steel Inverted U Bicycle Rack, Powdercoated. Refer to Specifications for Manufacturer and Finish.
- Reserved.
- Glass Seeded Concrete Paver: Refer to Hardscape Detail 2, Sheet CL-HSDT03 and Specifications.
- Street Name Sandblasted 1/4" in Concrete. Refer to Hardscape Detail 5, Sheet CL-HSDT02 and Specifications for Font Type, Size, and Locations. Font and Location to be approved by Landscape Architect.
- Recessed LED Solar Paver Light. Refer to Sheet CL-HSDT01 for Solar Paver Light Legend. Stake Light Locations for approval by Landscape Architect prior to installation. Refer to Hardscape Detail 1, Sheet CL-HSDT03 and Specifications.
- Parking Stall Number in Curb. Refer to Hardscape Detail 3, Sheet CL-HSDT03 and Specifications.
- 6" Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
- 4" Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
- 18" Stone Cube Seat. Refer to Specifications.
- Reserved.
- Parking Kiosk. Refer to Civil Plans.
- Salvage and Reuse 44" Diameter Concrete Landscape Container, 17.5"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 44" Diameter Concrete Landscape Container, 32"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 36" Diameter Concrete Landscape Container, 23"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 40" Diameter Concrete Landscape Container, 30"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 40" Diameter Concrete Landscape Container, 18"H. Refer to Specifications for Manufacturer and Color.
- Cast in Place Concrete Seatwall with Decorative Tile to Match Fox Theater.
- Steel Planting Container. Refer to Hardscape Detail xx, Sheet CL-HSDTxx.
- Reserved.
- Align Pavement Joint with Edge of Building Corner, Typ. this Area.
- Control Joint, Refer to Hardscape Detail 1, Sheet CL-HSDT02.
- New Backflow Preventer Enclosure around Existing BPV. Refer to Detail xx, Sheet CL-HSDTxx and Specifications.
- Proposed Media Corral Location. Refer to Hardscape Detail xx, Sheet CL-HSDTxx and Specifications.
- Proposed Information Kiosk Location. Refer to Specifications.
- Proposed Shade Structure Location. Refer to Sheet CL-HSDT05.

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**HARDSCAPE PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		125 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSPL03 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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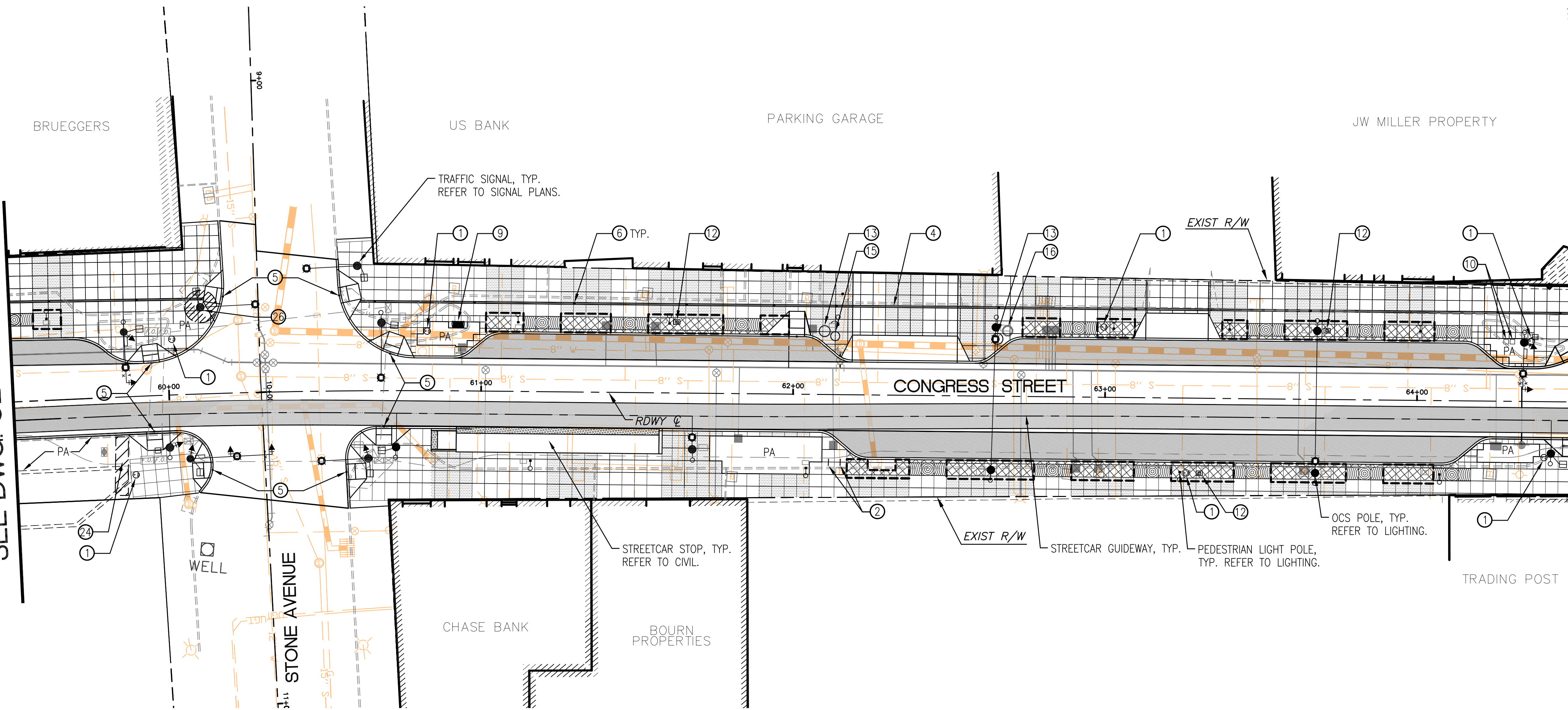
62+00

63+00

64+00

MATCHLINE STA 59+50  
SEE DWG. CL-HSPL03

MATCHLINE STA 64+50  
SEE DWG. CL-HSPL05



**MATERIAL LEGEND**

SYMBOL	MATERIAL	UNIT	QTY.
[Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR TBD, FINISH TBD	SY	
[Pattern]	INTEGRALLY COLORED CONCRETE, EXPOSED AGGREGATE FINISH, DAVIS COLOR TBD	SY	
[Pattern]	INTEGRALLY COLORED PERVIOUS CONCRETE, DAVIS COLOR TBD. REFER TO TYPICAL SECTIONS.	SY	
[Pattern]	GLASS SEEDED CONCRETE PAVER	LF	
[Pattern]	TREE GRATE 4' x 12'	EA	
[Pattern]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	
PA	PLANTING AREA		

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**GENERAL NOTES - HARDSCAPE**

1. Sidewalk paving shall be sloped to drain to planting areas.
2. All sidewalks and ramps shall be integrally colored concrete, Davis Colors TBD, unless otherwise noted. Refer to Specifications.
3. Screened rock to be placed in all planting and non-paved areas. Refer to Specifications.
4. Refer to Civil Plans for roadway layout, ramps, curb cuts and curbs.

**KEYNOTES**

1. Trash/Recycling Receptacle. Refer to Hardscape Detail 4, Sheet CL-HSDT03 and Specifications.
2. Salvage and Reuse Steel Inverted U Bicycle Rack, Powdercoated. Refer to Specifications for Manufacturer and Finish.
3. Reserved.
4. Glass Seeded Concrete Paver: Refer to Hardscape Detail 2, Sheet CL-HSDT03 and Specifications.
5. Street Name Sandblasted 1/4" in Concrete. Refer to Hardscape Detail 5, Sheet CL-HSDT02 and Specifications for Font Type, Size, and Locations. Font and Location to be approved by Landscape Architect.
6. Recessed LED Solar Paver Light. Refer to Sheet CL-HSDT01 for Solar Paver Light Legend. Stake Light Locations for approval by Landscape Architect prior to installation. Refer to Hardscape Detail 1, Sheet CL-HSDT03 and Specifications.
7. Parking Stall Number in Curb. Refer to Hardscape Detail 3, Sheet CL-HSDT03 and Specifications.
8. 6' Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
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10. 18" Stone Cube Seat. Refer to Specifications.
11. Reserved.
12. Parking Kiosk. Refer to Civil Plans.
13. Salvage and Reuse 44" Diameter Concrete Landscape Container, 17.5"H. Refer to Specifications for Manufacturer and Color.
14. Salvage and Reuse 44" Diameter Concrete Landscape Container, 32"H. Refer to Specifications for Manufacturer and Color.
15. Salvage and Reuse 36" Diameter Concrete Landscape Container, 23"H. Refer to Specifications for Manufacturer and Color.
16. Salvage and Reuse 40" Diameter Concrete Landscape Container, 30"H. Refer to Specifications for Manufacturer and Color.
17. Salvage and Reuse 40" Diameter Concrete Landscape Container, 18"H. Refer to Specifications for Manufacturer and Color.
18. Cast in Place Concrete Seatwall with Decorative Tile to Match Fox Theater.
19. Steel Planting Container. Refer to Hardscape Detail xx, Sheet CL-HSDTxx.
20. Reserved.
21. Align Pavement Joint with Edge of Building Corner, Typ. this Area.
22. Control Joint, Refer to Hardscape Detail 1, Sheet CL-HSDT02.
23. New Backflow Preventer Enclosure around Existing BPV. Refer to Detail xx, Sheet CL-HSDTxx and Specifications.
24. Proposed Media Corral Location. Refer to Hardscape Detail xx, Sheet CL-HSDTxx and Specifications.
25. Proposed Information Kiosk Location. Refer to Specifications.
26. Proposed Shade Structure Location. Refer to Sheet CL-HSDT05.

**HARDSCAPE PLAN**

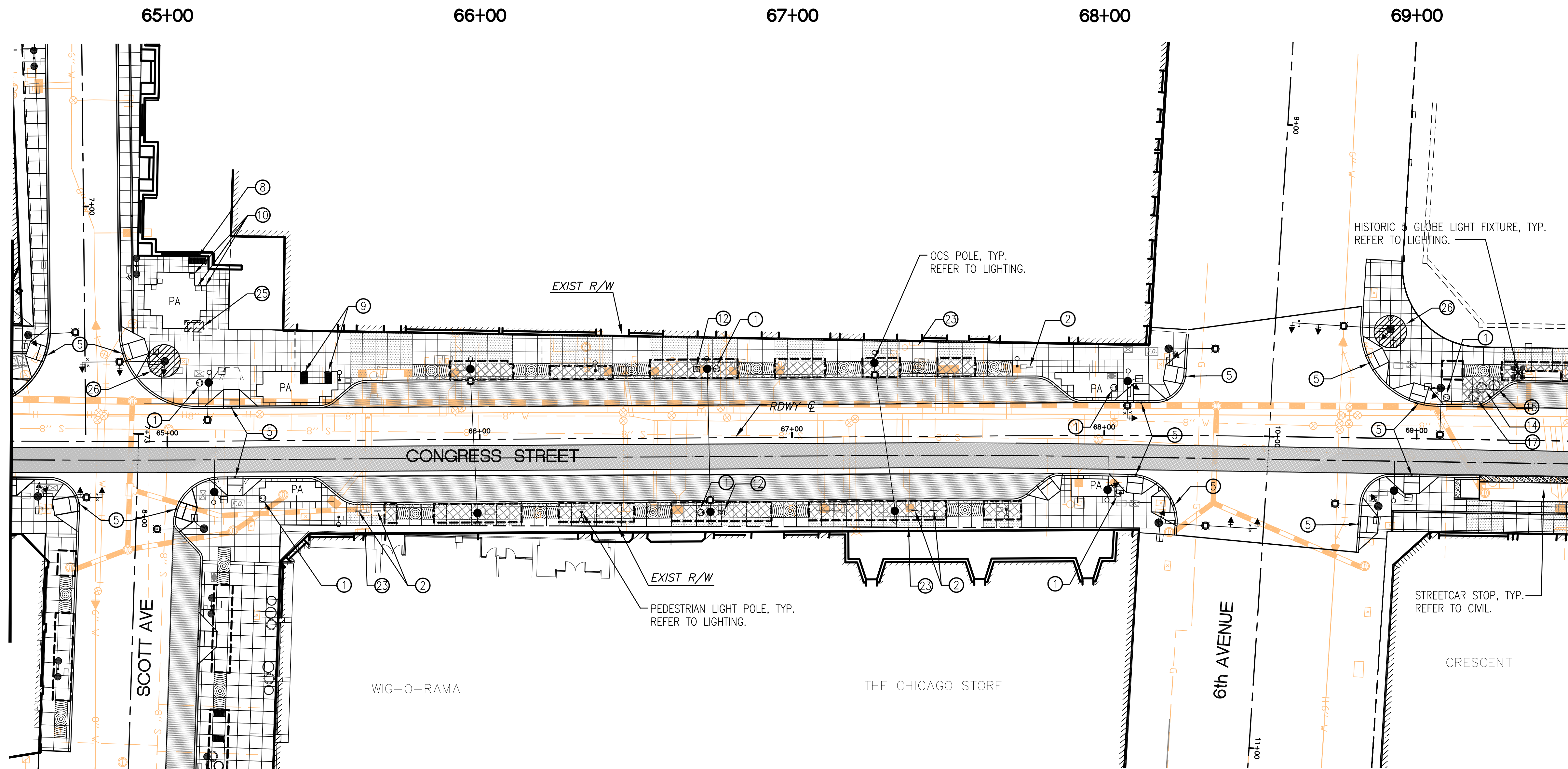
<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		126 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSPL04 SCALE: 1"=20' PLAN NO. I-2008-035	

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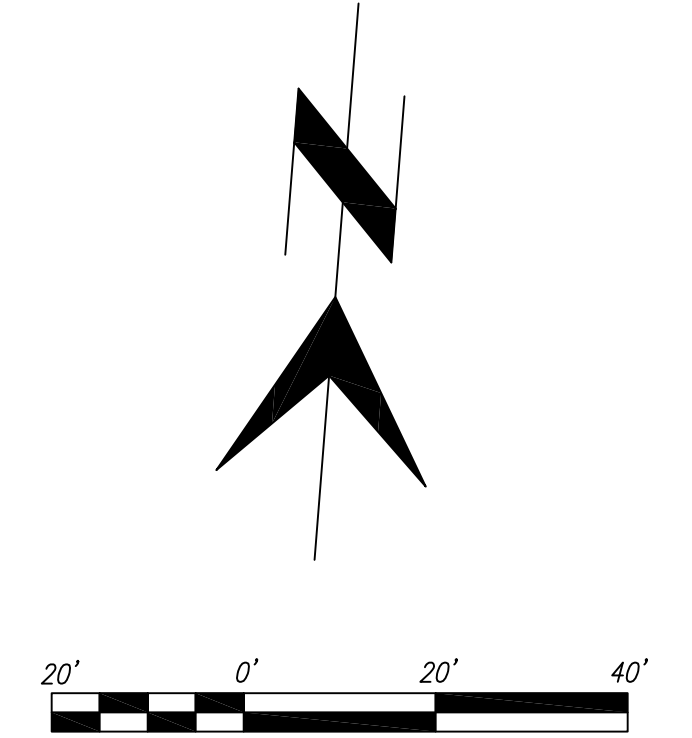
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SEE DWG. CL-HSPL04



MATCHLINE STA 69+50  
SEE DWG. CL-HSPL06



MATERIAL LEGEND			
SYMBOL	MATERIAL	UNIT	QTY.
[Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR TBD, FINISH TBD	SY	
[Pattern]	INTEGRALLY COLORED CONCRETE, EXPOSED AGGREGATE FINISH, DAVIS COLOR TBD	SY	
[Pattern]	INTEGRALLY COLORED PERVIOUS CONCRETE, DAVIS COLOR TBD. REFER TO TYPICAL SECTIONS.	SY	
[Pattern]	GLASS SEEDED CONCRETE PAVER	LF	
[Pattern]	TREE GRATE 4' x 12'	EA	
[Pattern]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	
PA	PLANTING AREA		

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**GENERAL NOTES - HARDSCAPE**

- Sidewalk paving shall be sloped to drain to planting areas.
- All sidewalks and ramps shall be integrally colored concrete, Davis Colors TBD, unless otherwise noted. Refer to Specifications.
- Screened rock to be placed in all planting and non-paved areas. Refer to Specifications.
- Refer to Civil Plans for roadway layout, ramps, curb cuts and curbs.

**KEYNOTES**

- Trash/Recycling Receptacle. Refer to Hardscape Detail 4, Sheet CL-HSDT03 and Specifications.
- Salvage and Reuse Steel Inverted U Bicycle Rack, Powdercoated. Refer to Specifications for Manufacturer and Finish.
- Reserved.
- Glass Seeded Concrete Paver: Refer to Hardscape Detail 2, Sheet CL-HSDT03 and Specifications.
- Street Name Sandblasted 1/4" in Concrete. Refer to Hardscape Detail 5, Sheet CL-HSDT02 and Specifications for Font Type, Size, and Locations. Font and Location to be approved by Landscape Architect.
- Recessed LED Solar Paver Light. Refer to Sheet CL-HSDT01 for Solar Paver Light Legend. Stake Light Locations for approval by Landscape Architect prior to installation. Refer to Hardscape Detail 1, Sheet CL-HSDT03 and Specifications.
- Parking Stall Number in Curb. Refer to Hardscape Detail 3, Sheet CL-HSDT03 and Specifications.
- 6' Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
- 4' Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
- 18" Stone Cube Seat. Refer to Specifications.
- Reserved.
- Parking Kiosk. Refer to Civil Plans.
- Salvage and Reuse 44" Diameter Concrete Landscape Container, 17.5"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 44" Diameter Concrete Landscape Container, 32"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 36" Diameter Concrete Landscape Container, 23"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 40" Diameter Concrete Landscape Container, 30"H. Refer to Specifications for Manufacturer and Color.
- Salvage and Reuse 40" Diameter Concrete Landscape Container, 18"H. Refer to Specifications for Manufacturer and Color.
- Cast in Place Concrete Seatwall with Decorative Tile to Match Fox Theater.
- Steel Planting Container. Refer to Hardscape Detail xx, Sheet CL-HSDTxx.
- Reserved.
- Align Pavement Joint with Edge of Building Corner, Typ. this Area.
- Control Joint, Refer to Hardscape Detail 1, Sheet CL-HSDT02.
- New Backflow Preventer Enclosure around Existing BPV. Refer to Detail xx, Sheet CL-HSDTxx and Specifications.
- Proposed Media Corral Location. Refer to Hardscape Detail xx, Sheet CL-HSDTxx and Specifications.
- Proposed Information Kiosk Location. Refer to Specifications.
- Proposed Shade Structure Location. Refer to Sheet CL-HSDT05.

**HARDSCAPE PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		127 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSPL05 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Minko, Doug

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70+00

71+00

72+00

73+00

74+00

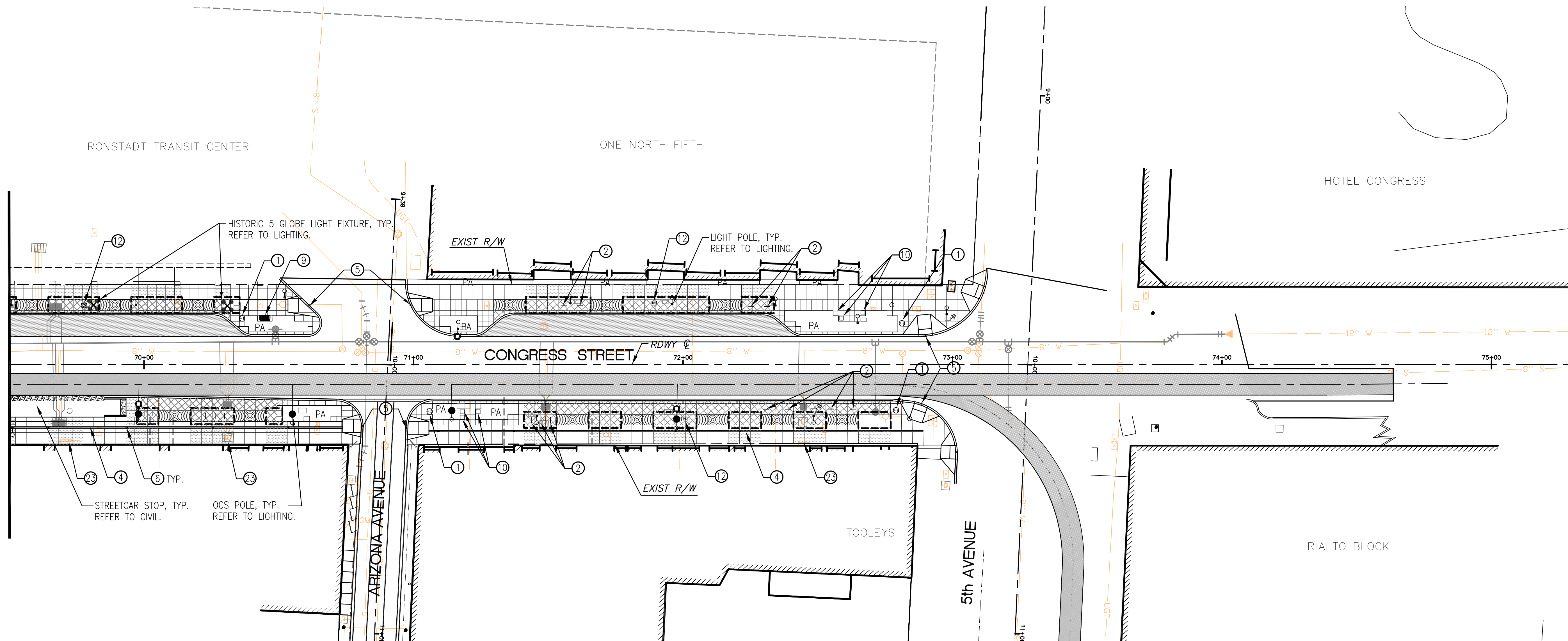
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RONSTADT TRANSIT CENTER

ONE NORTH FIFTH

HOTEL CONGRESS

MATCHLINE STA 69+50  
SEE DWG. CL-HSPL05



**GENERAL NOTES - HARDSCAPE**

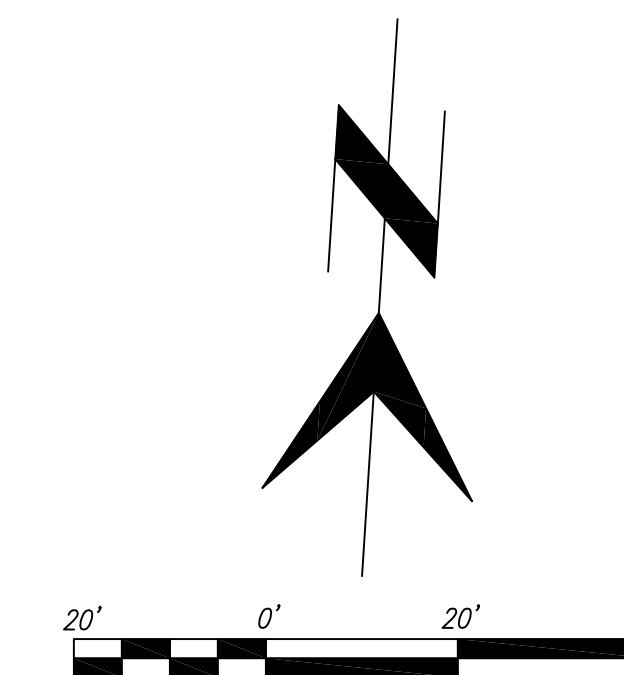
1. Sidewalk paving shall be sloped to drain to planting areas.
2. All sidewalks and ramps shall be integrally colored concrete, Davis Colors TBD, unless otherwise noted. Refer to Specifications.
3. Screened rock to be placed in all planting and non-paved areas. Refer to Specifications.
4. Refer to Civil Plans for roadway layout, ramps, curb cuts and curbs.

**KEYNOTES**

1. Trash/Recycling Receptacle. Refer to Hardscape Detail 4, Sheet CL-HSDT03 and Specifications.
2. Salvage and Reuse Steel Inverted U Bicycle Rack, Powdercoated. Refer to Specifications for Manufacturer and Finish.
3. Reserved.
4. Glass Seeded Concrete Paver: Refer to Hardscape Detail 2, Sheet CL-HSDT03 and Specifications.
5. Street Name Sandblasted 1/4" in Concrete. Refer to Hardscape Detail 5, Sheet CL-HSDT02 and Specifications for Font Type, Size, and Locations. Font and Location to be approved by Landscape Architect.
6. Recessed LED Solar Paver Light. Refer to Sheet CL-HSDT01 for Solar Paver Light Legend. Stake Light Locations for approval by Landscape Architect prior to installation. Refer to Hardscape Detail 1, Sheet CL-HSDT03 and Specifications.
7. Parking Stall Number in Curb. Refer to Hardscape Detail 3, Sheet CL-HSDT03 and Specifications.
8. 6' Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
9. 4' Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
10. 18" Stone Cube Seat. Refer to Specifications.
11. Reserved.
12. Parking Kiosk. Refer to Civil Plans.
13. Salvage and Reuse 44" Diameter Concrete Landscape Container, 17.5"H. Refer to Specifications for Manufacturer and Color.
14. Salvage and Reuse 44" Diameter Concrete Landscape Container, 32"H. Refer to Specifications for Manufacturer and Color.
15. Salvage and Reuse 36" Diameter Concrete Landscape Container, 23"H. Refer to Specifications for Manufacturer and Color.
16. Salvage and Reuse 40" Diameter Concrete Landscape Container, 30"H. Refer to Specifications for Manufacturer and Color.
17. Salvage and Reuse 40" Diameter Concrete Landscape Container, 18"H. Refer to Specifications for Manufacturer and Color.
18. Cast in Place Concrete Seatwall with Decorative Tile to Match Fox Theater.
19. Steel Planting Container. Refer to Hardscape Detail xx, Sheet CL-HSDTxx.
20. Reserved.
21. Align Pavement Joint with Edge of Building Corner, Typ. this Area.
22. Control Joint, Refer to Hardscape Detail 1, Sheet CL-HSDT02.
23. New Backflow Preventer Enclosure around Existing BPV. Refer to Detail xx, Sheet CL-HSDTxx and Specifications.
24. Proposed Media Corral Location. Refer to Hardscape Detail xx, Sheet CL-HSDTxx and Specifications.
25. Proposed Information Kiosk Location. Refer to Specifications.
26. Proposed Shade Structure Location. Refer to Sheet CL-HSDT05.

MATERIAL LEGEND			
SYMBOL	MATERIAL	UNIT	QTY.
[Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR TBD, FINISH TBD	SY	
[Pattern]	INTEGRALLY COLORED CONCRETE, EXPOSED AGGREGATE FINISH, DAVIS COLOR TBD	SY	
[Pattern]	INTEGRALLY COLORED PERVIOUS CONCRETE, DAVIS COLOR TBD. REFER TO TYPICAL SECTIONS.	SY	
[Pattern]	GLASS SEEDED CONCRETE PAVER	LF	
[Pattern]	TREE GRATE 4' x 12'	EA	
[Pattern]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	
PA	PLANTING AREA		

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BLUE STAKE CENTER  
CALL TO COLLECT

**HARDSCAPE PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		128 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-HSPL06 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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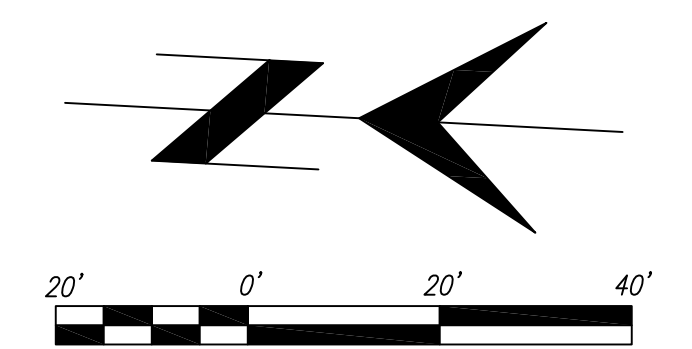
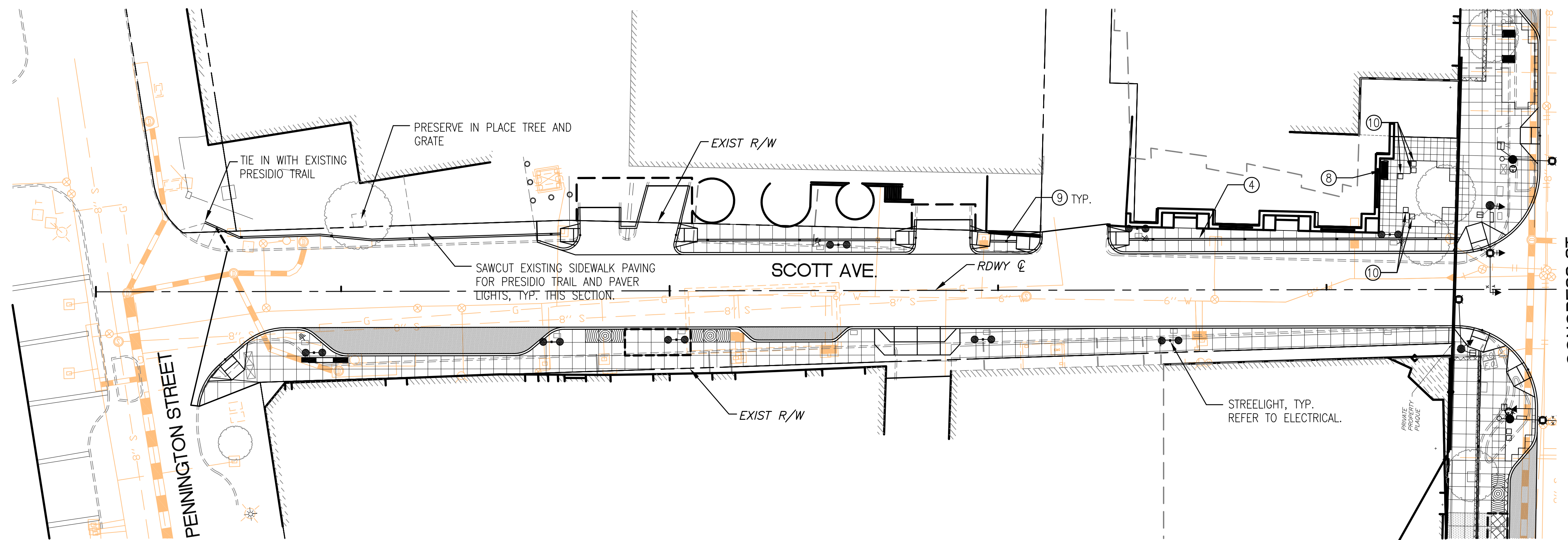
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MATCHLINE STA 7+39.20  
SEE DWG. CL-HSPL05

MATERIAL LEGEND			
SYMBOL	MATERIAL	UNIT	QTY.
[Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR TBD, FINISH TBD	SY	
[Pattern]	INTEGRALLY COLORED CONCRETE, EXPOSED AGGREGATE FINISH, DAVIS COLOR TBD	SY	
[Pattern]	INTEGRALLY COLORED PERVIOUS CONCRETE, DAVIS COLOR TBD. REFER TO TYPICAL SECTIONS.	SY	
[Pattern]	GLASS SEEDED CONCRETE PAVER	LF	
[Pattern]	TREE GRATE 4' x 12'	EA	
[Pattern]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	
PA	PLANTING AREA		

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**KEYNOTES**

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- 4' Bench with Back, Armrest, and Center Arm. Refer to Specifications for Manufacturer and Finish.
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- Proposed Shade Structure Location. Refer to Sheet CL-HSDT05.

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**HARDSCAPE PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		129 OF 184
	CITY OF <b>TUCSON</b>	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. SL-HSPL01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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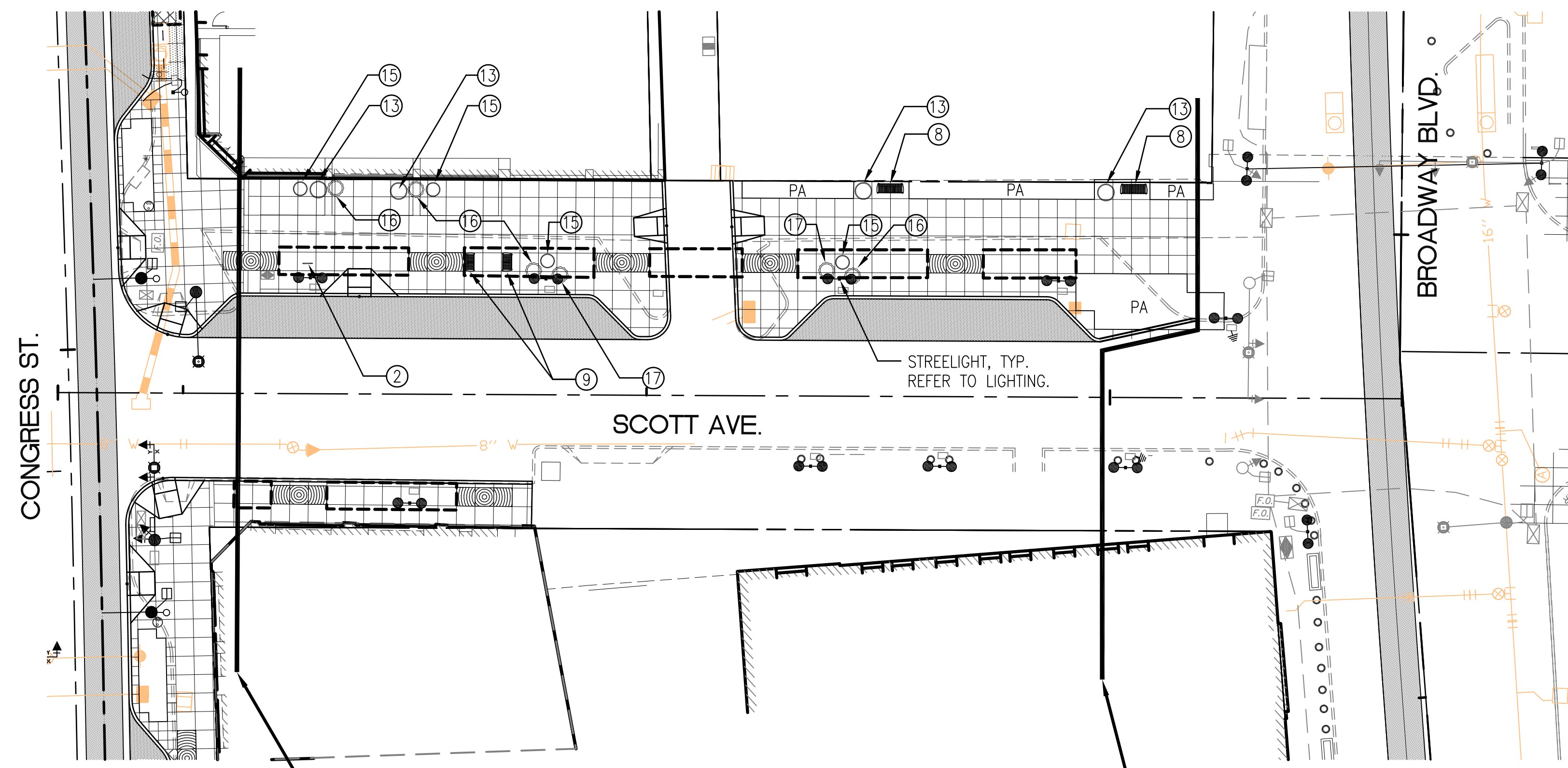
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11+00



SEE SCOTT PLAN  
NO. I-2008-027

MATCHLINE STA 8+12.31  
SEE DWG. CL-HSPL05

MATCHLINE STA 9+97.97  
SEE DWG. BL-HSPL05

MATERIAL LEGEND			
SYMBOL	MATERIAL	UNIT	QTY.
[Solid Grey]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR TBD, FINISH TBD	SY	
[Dotted Grey]	INTEGRALLY COLORED CONCRETE, EXPOSED AGGREGATE FINISH, DAVIS COLOR TBD	SY	
[Cross-hatched Grey]	INTEGRALLY COLORED PERVIOUS CONCRETE, DAVIS COLOR TBD. REFER TO TYPICAL SECTIONS.	SY	
[Horizontal Lines]	GLASS SEEDED CONCRETE PAVER	LF	
[Circle with X]	TREE GRATE 4' x 12'	EA	
[Square with Dotted]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	
PA	PLANTING AREA		

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- Refer to Civil Plans for roadway layout, ramps, curb cuts and curbs.

**KEYNOTES**

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- Reserved.
- Glass Seeded Concrete Paver. Refer to Hardscape Detail 2, Sheet CL-HSDT03 and Specifications.
- Street Name Sandblasted 1/4" in Concrete. Refer to Hardscape Detail 5, Sheet CL-HSDT02 and Specifications for Font Type, Size, and Locations. Font and Location to be approved by Landscape Architect.
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- Steel Planting Container. Refer to Hardscape Detail xx, Sheet CL-HSDTxx.
- Reserved.
- Align Pavement Joint with Edge of Building Corner, Typ. this Area.
- Control Joint, Refer to Hardscape Detail 1, Sheet CL-HSDT02.
- New Backflow Preventer Enclosure around Existing BPV. Refer to Detail xx, Sheet CL-HSDTxx and Specifications.
- Proposed Media Corral Location. Refer to Hardscape Detail xx, Sheet CL-HSDTxx and Specifications.
- Proposed Information Kiosk Location. Refer to Specifications.
- Proposed Shade Structure Location. Refer to Sheet CL-HSDT05.



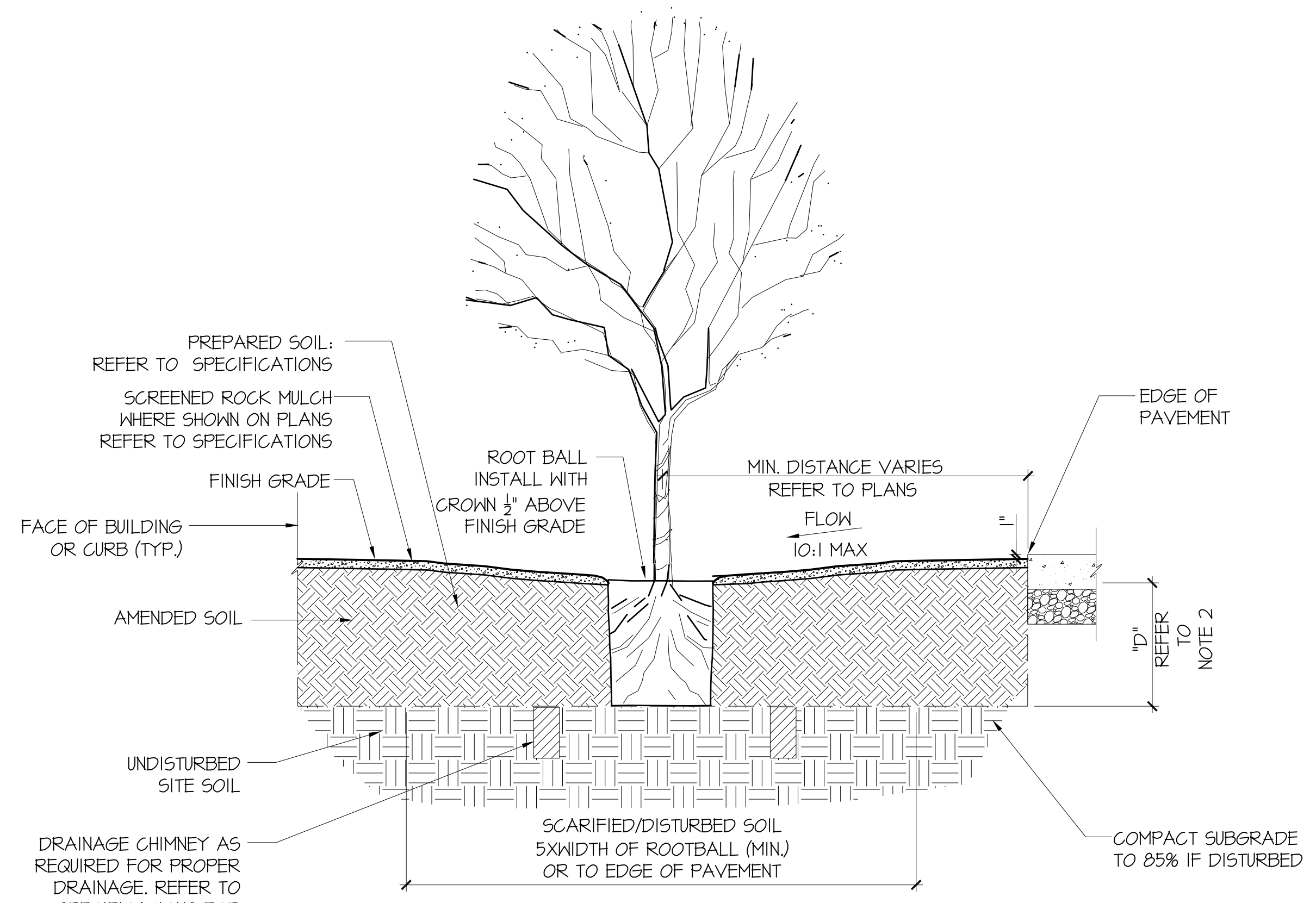
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**HARDSCAPE PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		130 OF 184
		DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. SL-HSPL02 SCALE: 1"=20' PLAN NO. I-2008-035

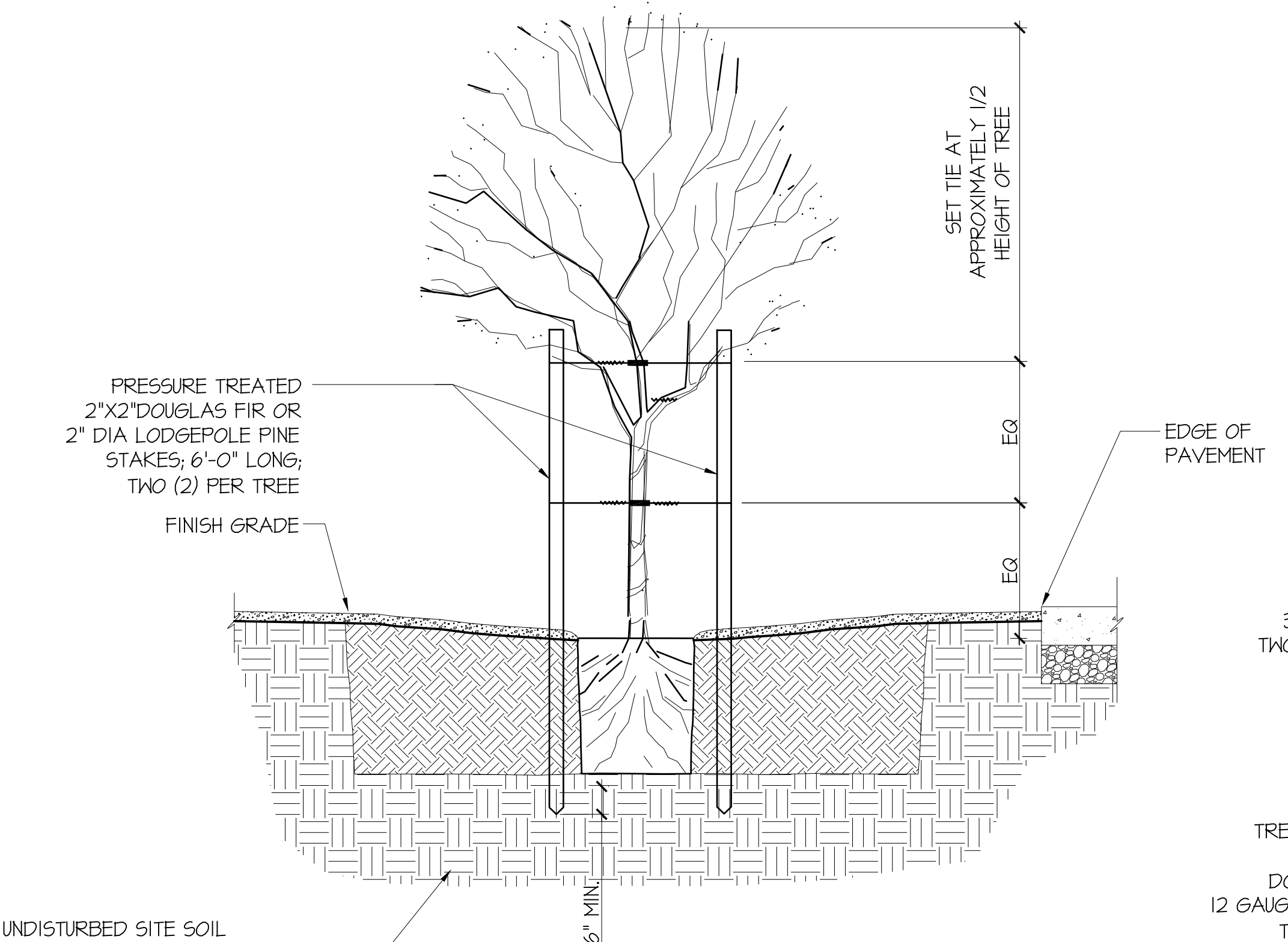
NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Madsen, Doug



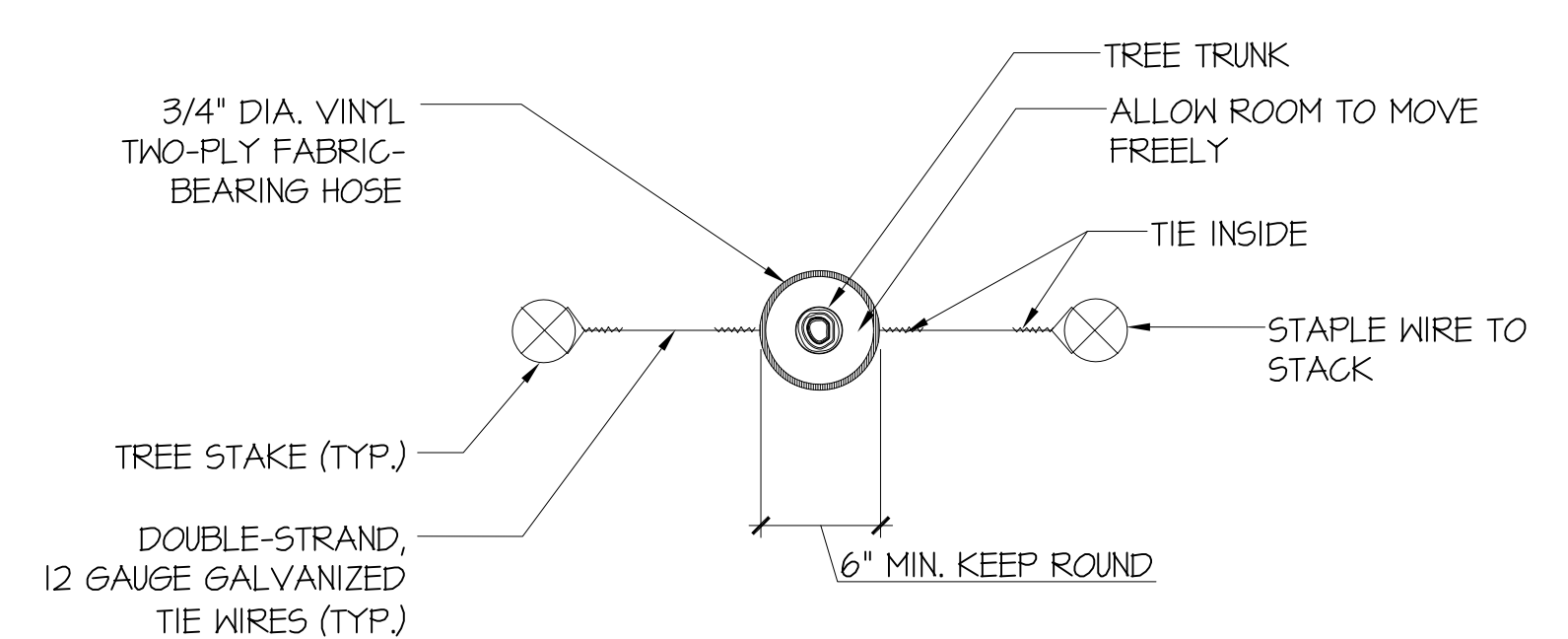
- NOTES:
1. No plants shall be pruned except at the direction of the GOT Landscape Architect or Certified Arborist.
  2. Depth ("D") of plant pit to be equal to depth of rootball.
  3. Test planting pit drainage and provide drainage chimneys as required for adequate drainage.
  4. Finish grade of root ball shall match finish grade of surrounding soil. Root ball may be placed up to 1" above to allow for settling. Do not place mulch at base of plant.
  5. Amend all soil in Planting Areas. Refer to Specifications.

**1 TREE PLANTING DETAIL** N.T.S.

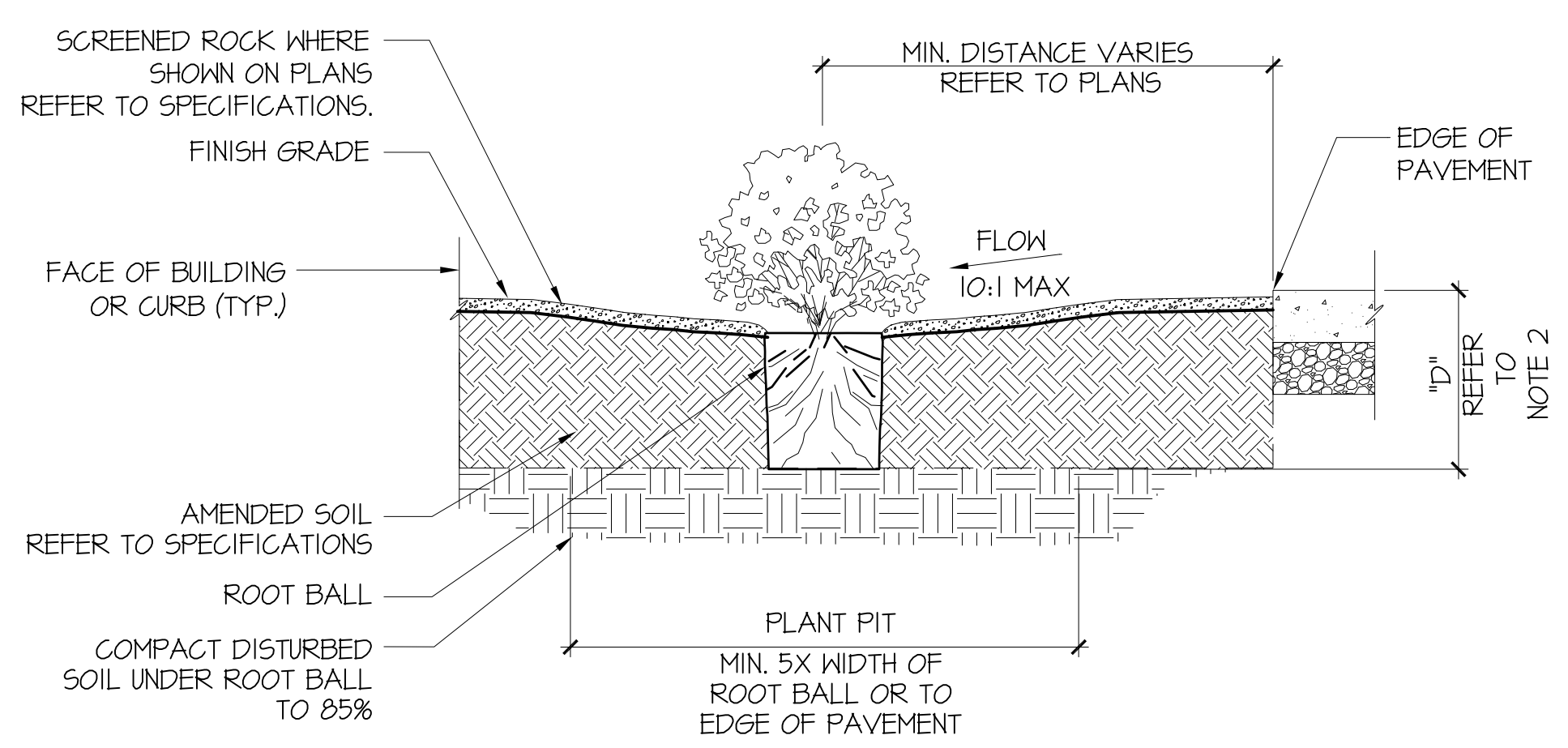


- NOTES:
1. No plants shall be pruned except at the direction of the GOT Landscape Architect or Certified Arborist.
  2. Stake 15 gal. Trees only per direction of GOT Landscape Architect.
  3. Set stakes parallel to sidewalk or street where applicable.

**2 TREE STAKING DETAIL** N.T.S.

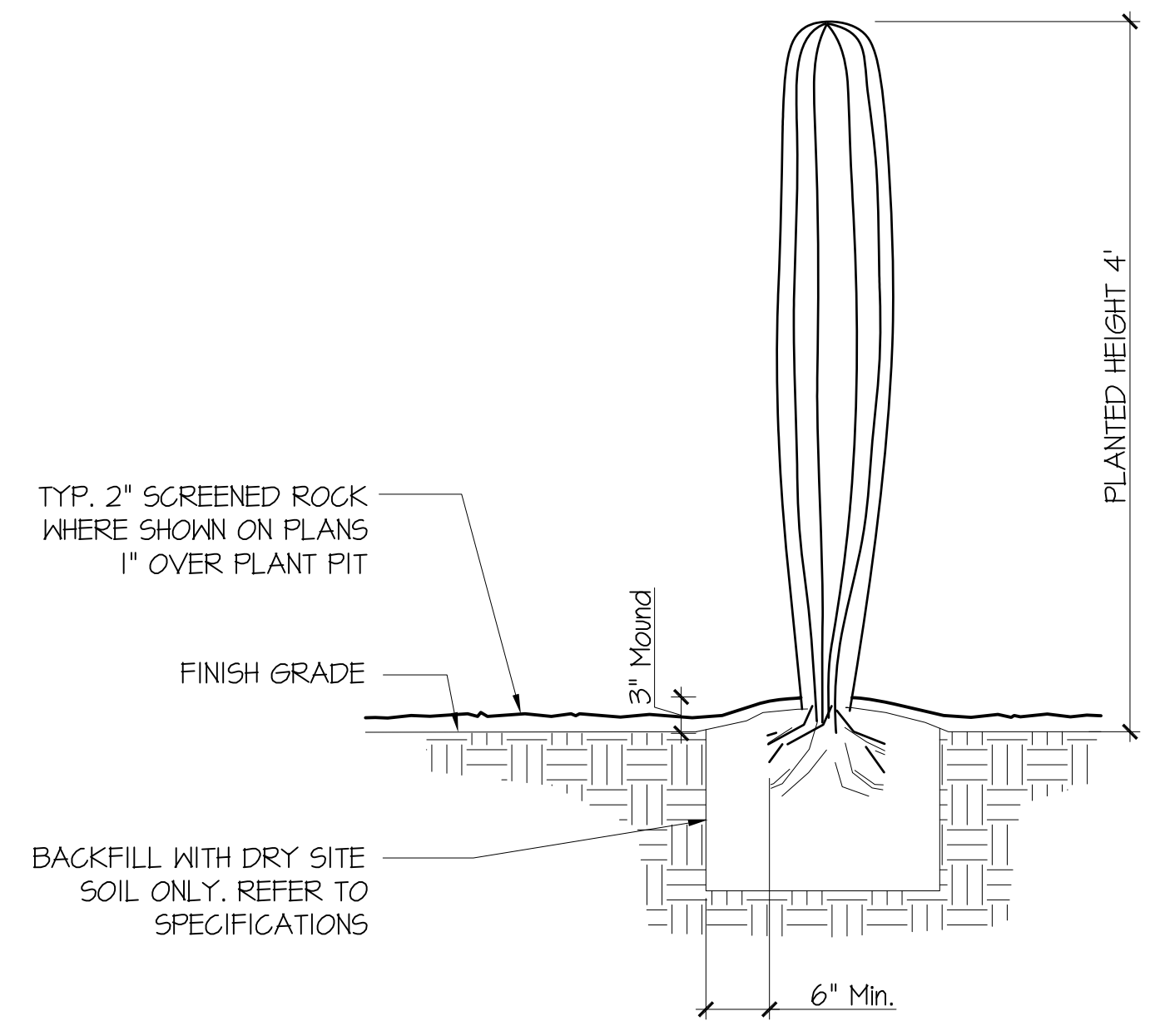


**PLAN**



- NOTES:
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  3. Test planting pit drainage and provide drainage chimneys as required for adequate drainage.
  4. Finish grade of root ball shall match finish grade of surrounding soil. Root ball may be placed up to 1" above to allow for settling. Do not place mulch at base of plant.
  5. Amend all soil in Planting Areas. Refer to Specifications.

**3 SHRUB PLANTING DETAIL** N.T.S.



- NOTES:
1. All saguaro placements must match original orientation with original north side facing north. North side of plants shall be marked by the nursery.

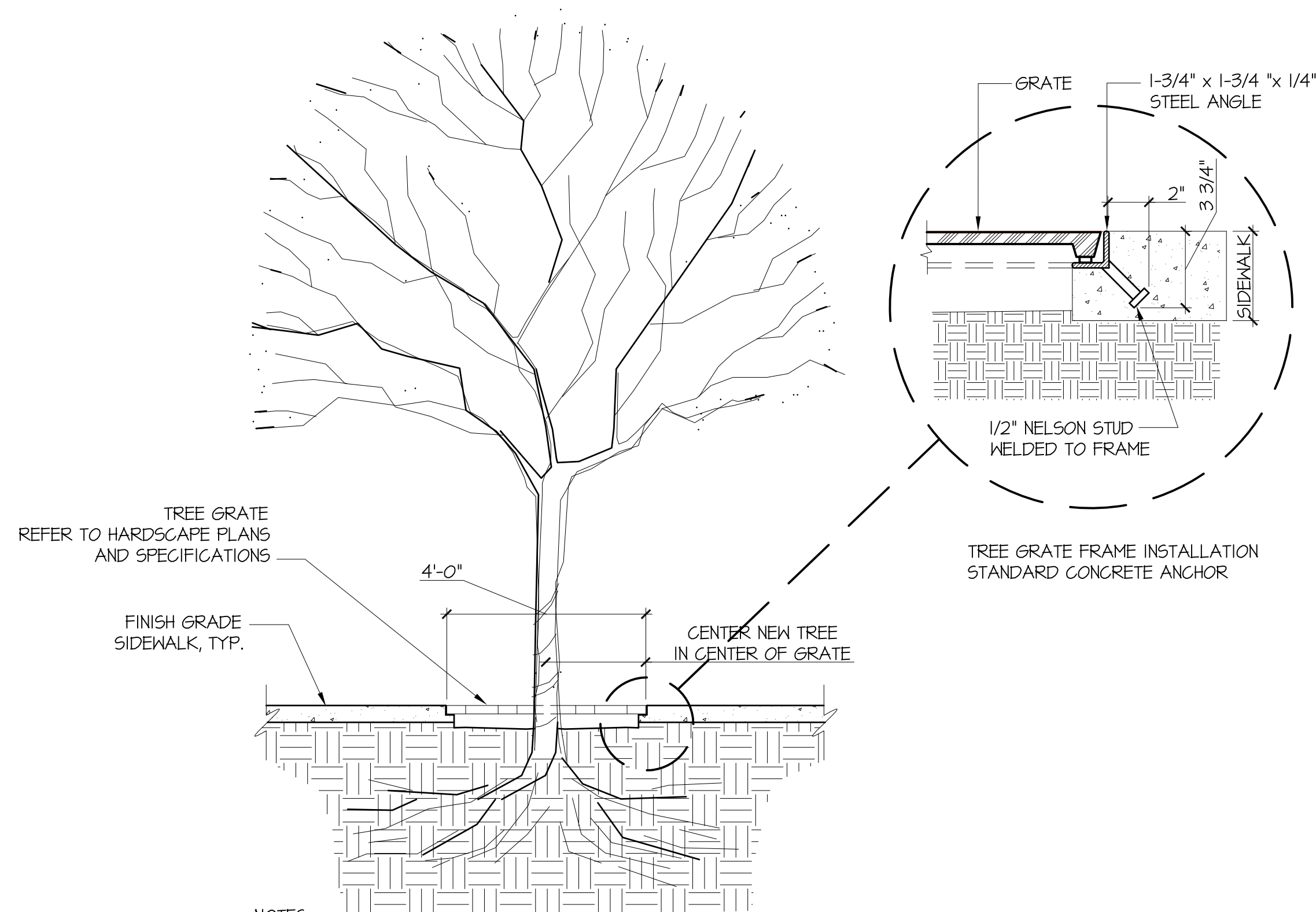
**4 SAGUARO PLANTING DETAIL** N.T.S.

**PLANTING DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		131 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-PLDT01 SCALE: 1"=20' PLAN NO. I-2008-035	

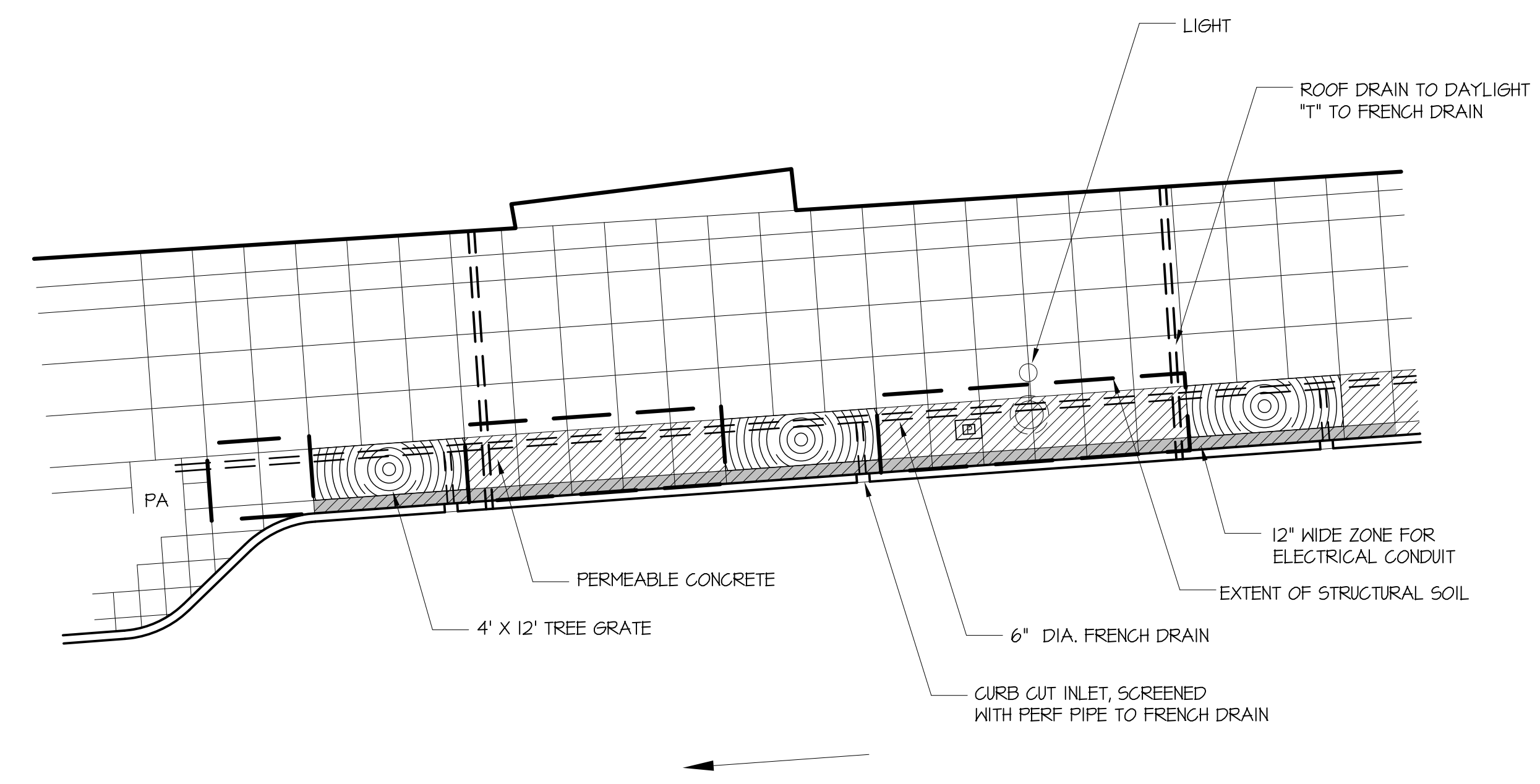
180 WORKING DAYS BEFORE YOU DO CALL FOR THE BLUE STAKES  
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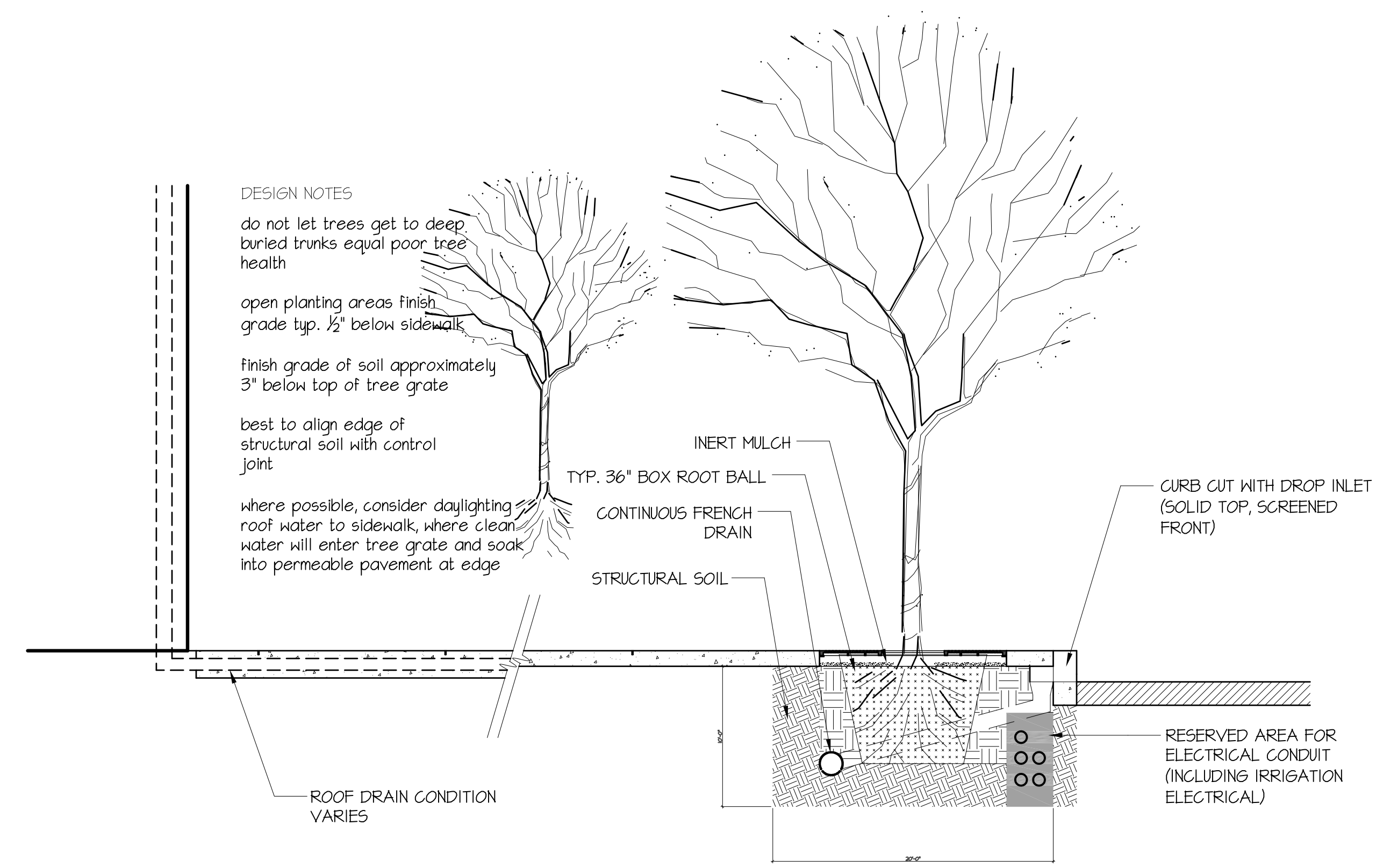


- NOTES:
1. Refer to Civil Plans for elevations and grades.
  2. Tree Grate to be flush with sidewalk.
  3. Grates placed around existing trees shall be field fitted and locations approved by Landscape Architect.
  4. Refer to Tree Grate Legend on Sheet L-H6PLO5 for Station and Offset locations.
  5. Refer to Hardscape Details for Tree Grate Installation.
  6. Install per Manufacturer's instructions.

**1 TREE GRATE INSTALLATION**  
1/2"=1'-0"



**1 CONGRESS STREET - WATER HARVESTING**  
1/8"=1'-0"



**1 CONGRESS ST. WATER HARVESTING TYP. SECTION**  
1/2"=1'-0"

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1-800-782-5348  
BLUE STAKE CENTER CALL COLLECT

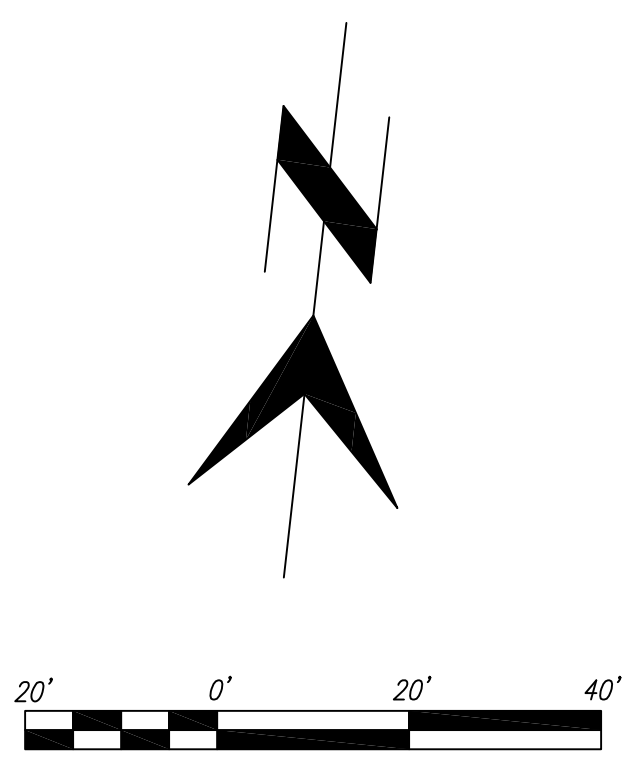
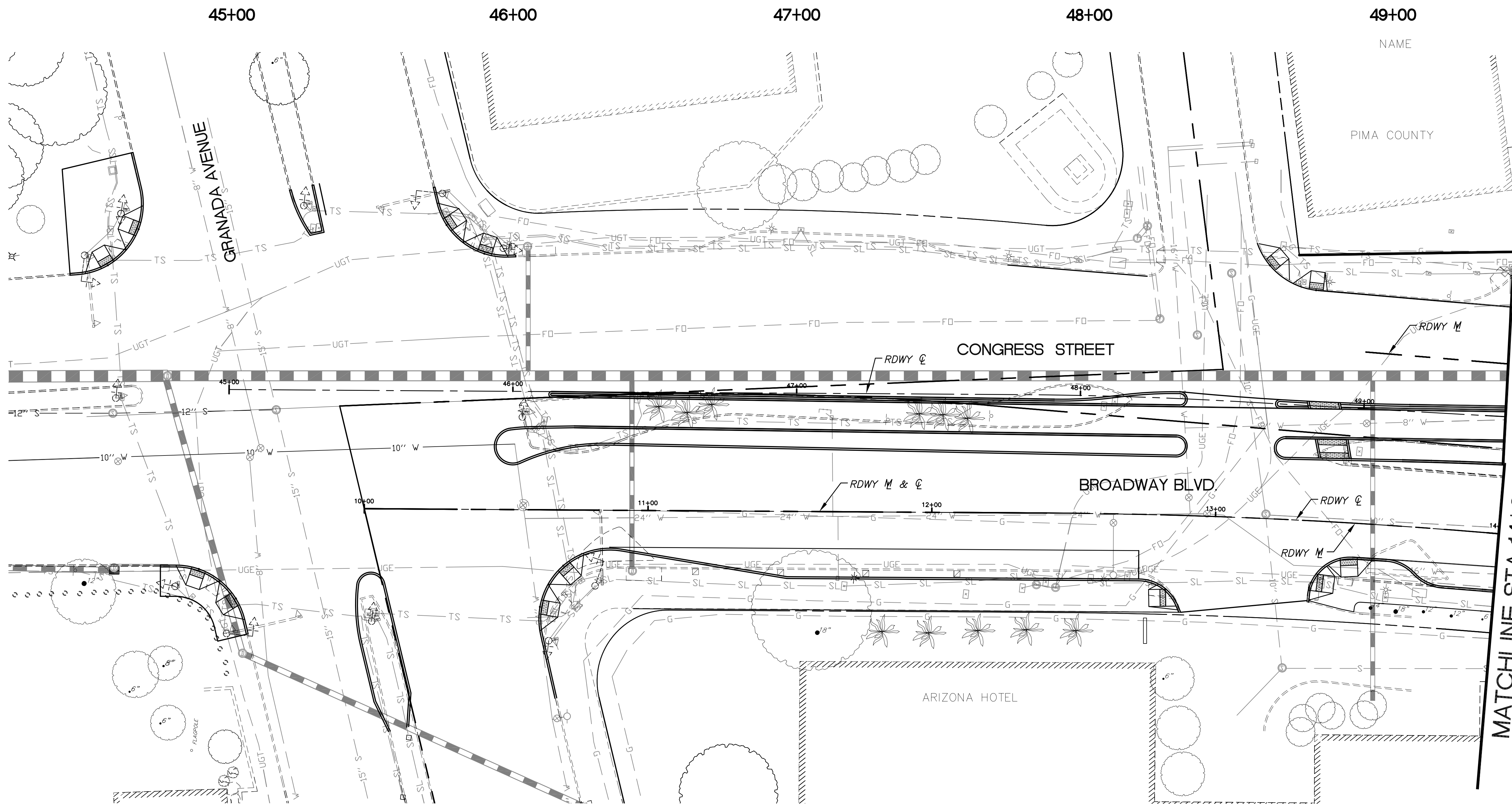
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**PLANTING DETAILS**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		132 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-PLDT02 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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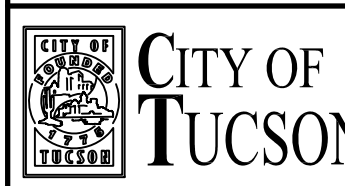
MATCHLINE STA 14+00 SEE DWG. BL-PLPL02  
 MATCHLINE STA 49+50 SEE DWG. CL-PLPL02

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**PLANTING PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		133 OF 184
		DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-PLPL01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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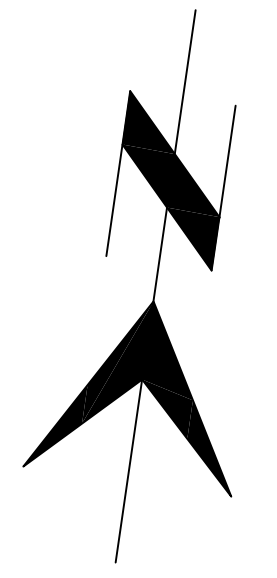
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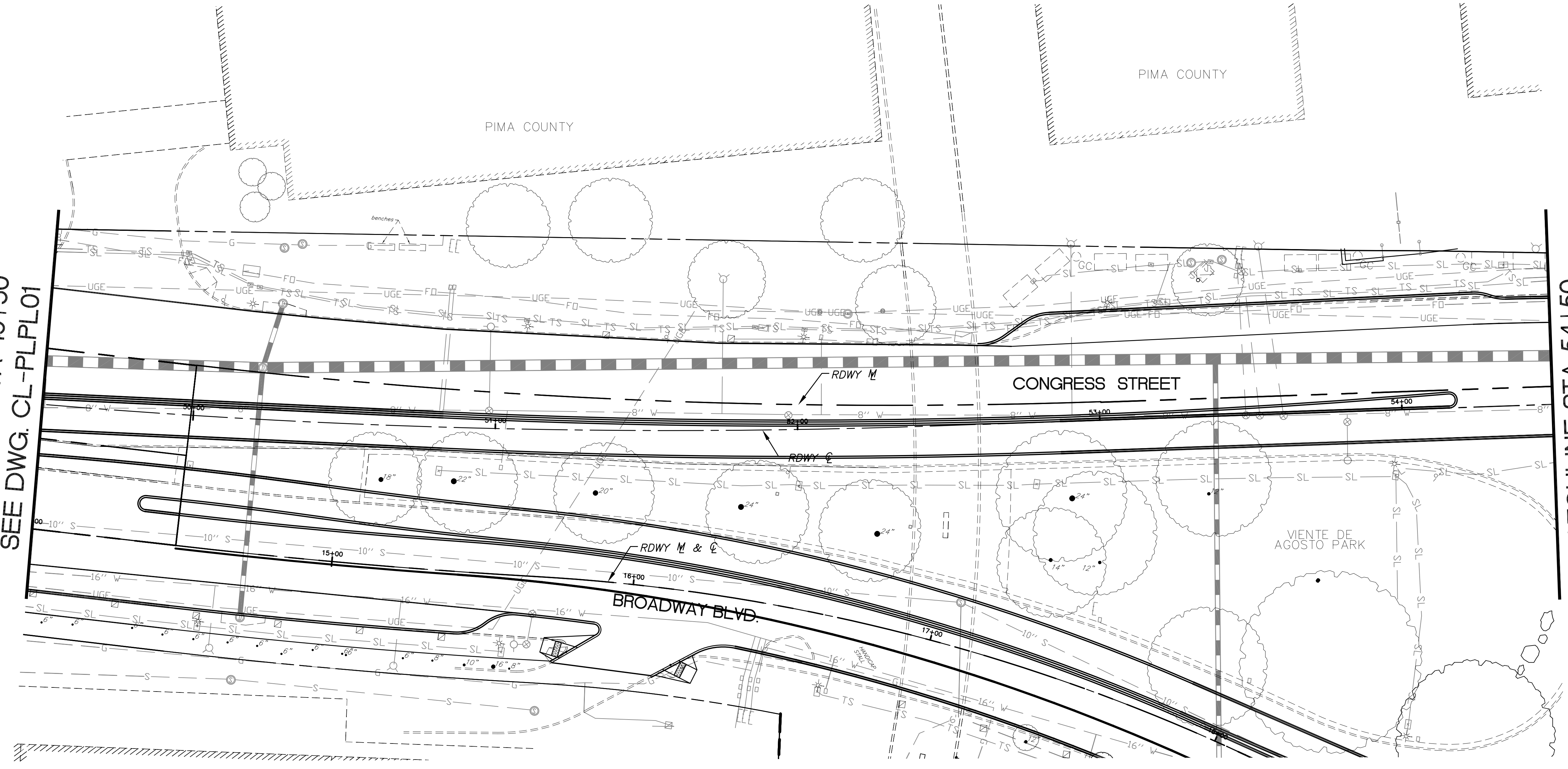
PIMA COUNTY

PIMA COUNTY



MATCHLINE STA 49+50  
SEE DWG. CL-PLPL01

MATCHLINE STA 54+50  
SEE DWG. CL-PLPL03



NO PLANTING, THIS SHEET

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CALL COLLECT

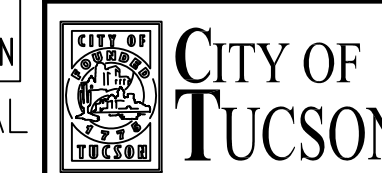
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PLANTING PLAN

PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

134  
OF  
184



DRWN. BY H. FLUGSTAD  
DSGN. BY L. RIBES, H.F., C.M.  
CHKD. BY L. RIBES

REF. CL-PLPL02 SCALE: 1"=20'

PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

55+00

56+00

57+00

58+00

59+00

MATCHLINE STA 54+50  
SEE DWG. CL-PLPL02

MATCHLINE STA 59+50  
SEE DWG. CL-PLPL04

MATCH GRADE AND  
RESEED WITH TURF.

VIENTE DE AGOSTO PARK

CHURCH AVENUE

ENOTECA

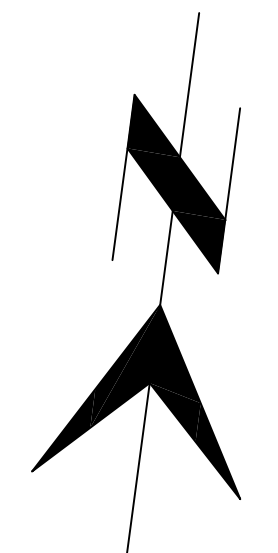
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CONGRESS STREET

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EXIST R/W

UNISOURCE BUILDING



PLANT SCHEDULE  
TREES

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Caesalpinia cacalco Cascalote 'Smoothie'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Chilopsis linearis Desert Willow 'Warren Jones'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper  6' H x 2.5' W Low Branch/Multi	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Fraxinus velutina Velvet Ash	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Havardia pallens Tenaza  'Sierra Sparkler'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Parkinsonia floridum Blue Palo Verde	min. size: 1.5 in. caliper	
	approved salvaged specimens acceptable	7' H x 3.5' W Low Branch Standard	
	Parkinsonia microphyllum Foothills Palo Verde	min. size: 1.5 in. caliper	
	approved salvaged specimens acceptable	7' H x 3.5' W Low Branch Standard	

SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Acacia greggii Catclaw acacia	5 gal	
	Baileya multiradiata Desert Marigold	1 gal	
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	
	Chrysoactinia mexicana Damianita	1 gal	
	Conoclinium greggii 'Boothill'	1 gal	
	Celtis pallida Hackberry	1 gal	
	Eremophila glabra Red flowering Emu bush	5 gal	
	Euphorbia antisiphilitica Candelilla	5 gal	
	Glandularia x Summer Beauty Verbena	1 gal	

SHRUBS

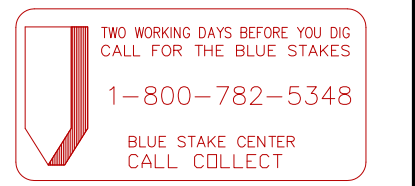
SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Larrea tridentata Creosote Bush	5 gal	
	Nassella tenuissima Mexican Feather Grass	1 gal	
	Penstemon wrightii Wright Penstemon	1 gal	
	Plumbago scandens Native plumbago	1 gal	
	Simmondsia chinensis Jojoba	5 gal	

CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Agave parryi v. parryi Parry's Agave	5 gal	
	Carnegiea gigantea Saguaro	4' spear	
	Ferocactus wislizenii Fishhook Barrel	1' min. H	

GENERAL NOTES

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- Tree caliper for standard trunk trees shall be measured at the widest point within the first four to six inches above the soil of the container for 15-gallon and 24-inch box trees. Caliper for multi trunk is determined by taking half the caliper of up to the three largest trunks.
- Locate trees as shown on plan. Final tree location to be staked and approved by Landscape Architect.

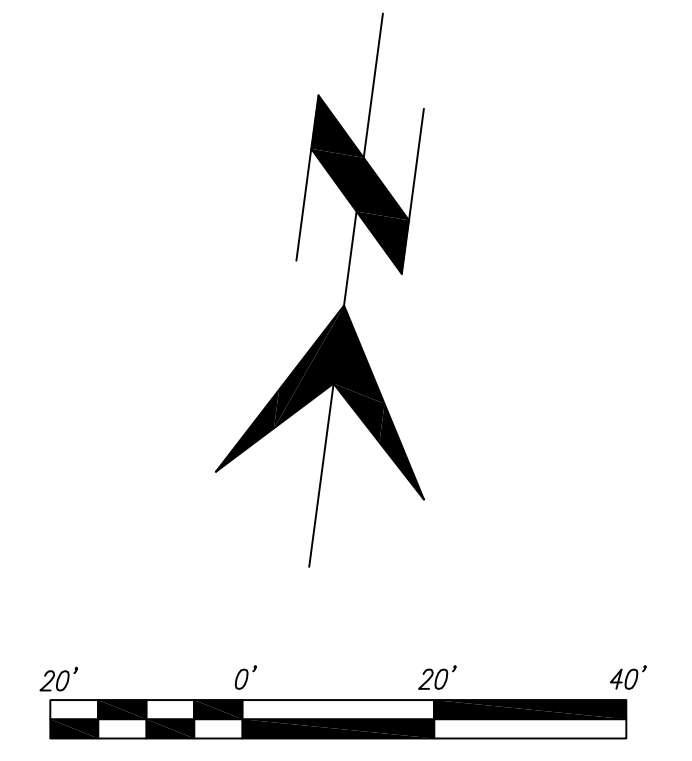
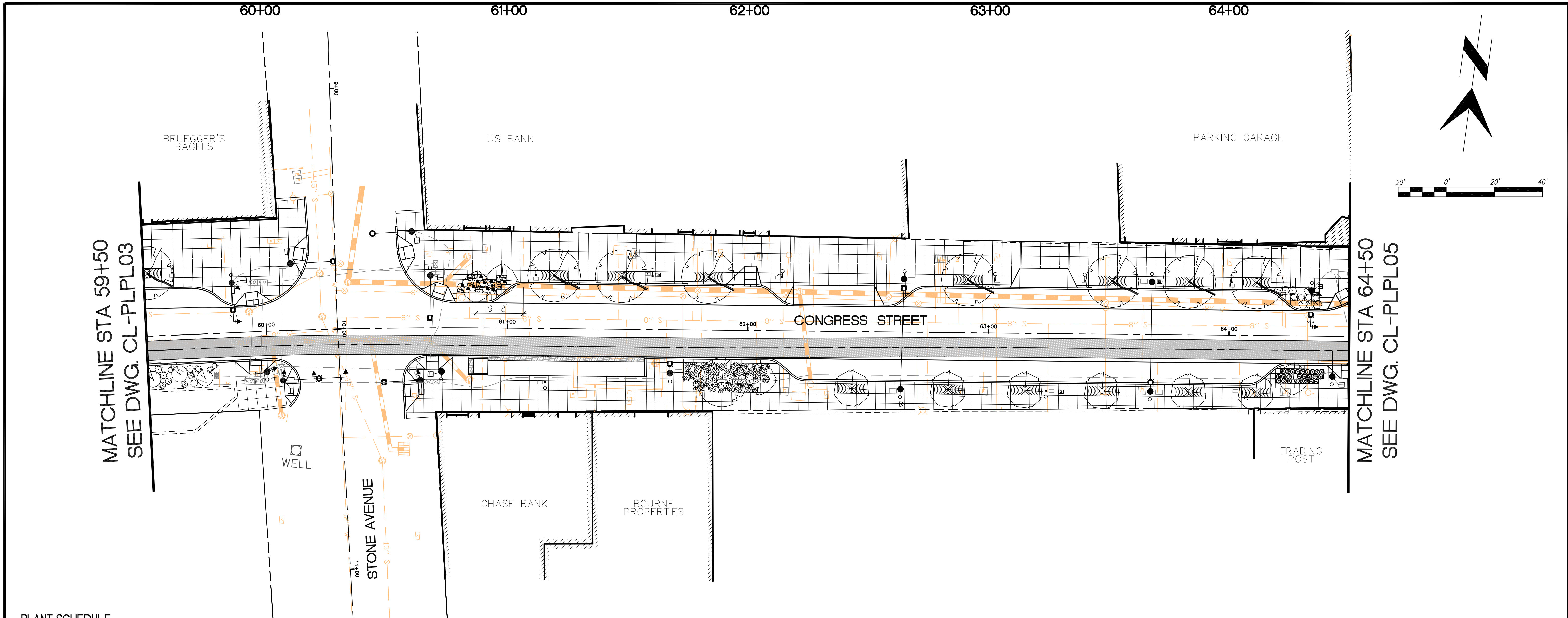


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PLANTING PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		135 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-PLPL03 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.



**PLANT SCHEDULE**  
**TREES**

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Coesalpinia cacalco Cascalote 'Smoothie'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Chilopsis linearis Desert Willow 'Warren Jones'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper  6' H x 2.5' W Low Branch/Multi	

**SHRUBS**

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Fraxinus velutina Velvet Ash	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Havadia pallens Tenaza "Sierra Sparkler"	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Parkinsonia floridum Blue Palo Verde approved salvaged specimens acceptable	min. size: 1.5 in. caliper  7' H x 3.5' W Low Branch Standard	
	Parkinsonia microphyllum Foothills Palo Verde approved salvaged specimens acceptable	min. size: 1.5 in. caliper  7' H x 3.5' W Low Branch Standard	

**SHRUBS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Acacia greggii Catclaw acacia	5 gal	
	Baileya multiradiata Desert Marigold	1 gal	
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	
	Chrysactinia mexicana Damianita	1 gal	
	Conoclinium greggii 'Boothill'	1 gal	
	Celtis pallida Hackberry	1 gal	
	Eremophila glabra Red flowering Emu bush	5 gal	
	Euphorbia antisiphilitica Candelilla	5 gal	
	Glandularia x Summer Beauty Verbena	1 gal	

**SHRUBS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Larrea tridentata Creosote Bush	5 gal	
	Nassella tenuissima Mexican Feather Grass	1 gal	
	Penstemon wrightii Wright Penstemon	1 gal	
	Plumbago scandens Native plumbago	1 gal	
	Simmondsia chinensis Jojoba	5 gal	

**CACTI AND ACCENTS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Agave parryi v. parryi Parry's Agave	5 gal	
	Carnegiea gigantea Saguaro	4' spear	
	Ferocactus wislizenii Fishhook Barrel	1' min. H	

- GENERAL NOTES**
- Contractor is responsible to verify all plant quantities. The plant list is intended as a reference only. Quantities shown are for Scott Ave. project limits from Broadway Blvd. to 14th St.
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  - Locate trees as shown on plan. Final tree location to be staked and approved by Landscape Architect.

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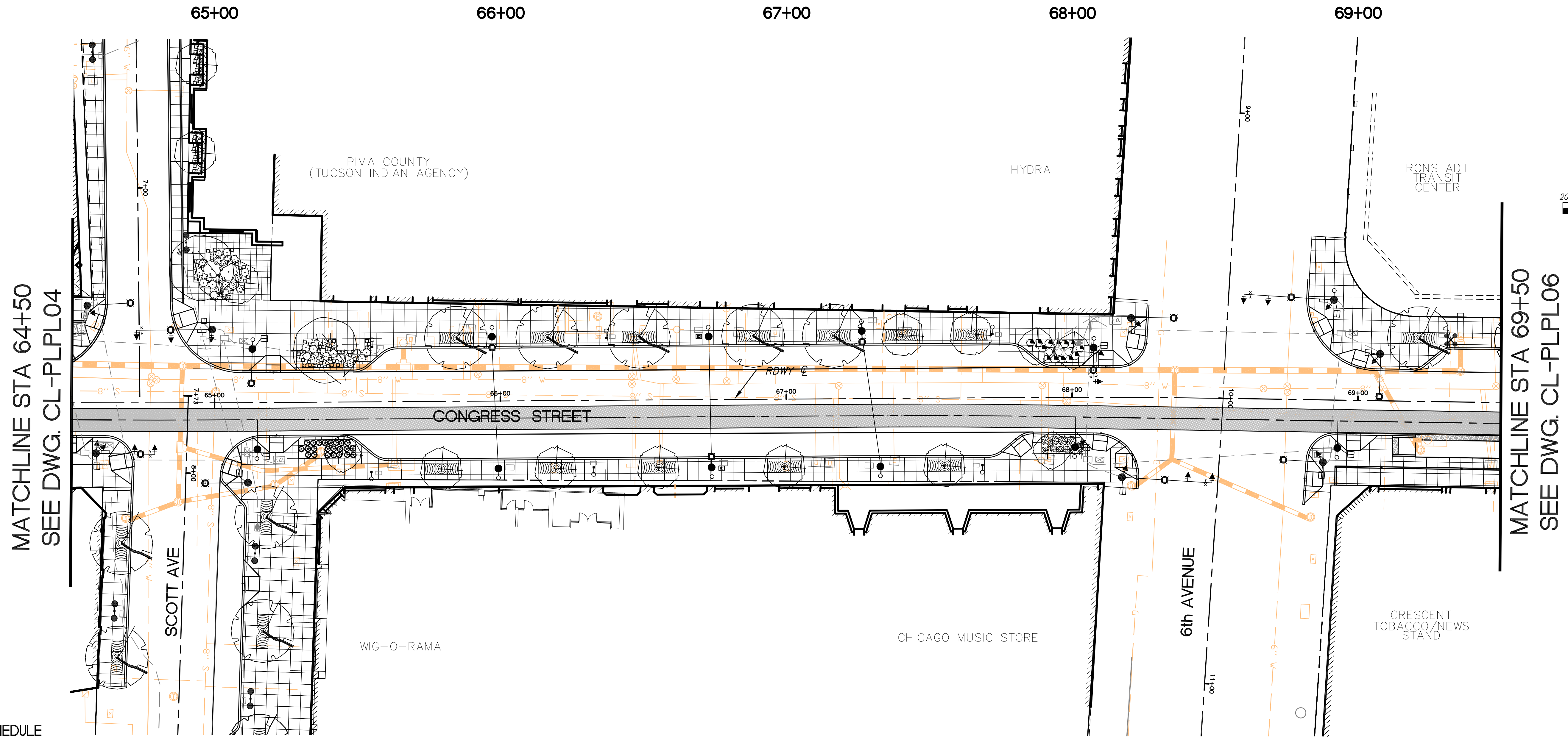
**PLANTING PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		136 OF 184
	DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. CL-PLP04 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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MATCHLINE STA 64+50  
SEE DWG. CL-PLPL04

MATCHLINE STA 69+50  
SEE DWG. CL-PLPL06

**PLANT SCHEDULE**  
**TREES**

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Caesalpinia cacalco Cascolote 'Smoothie'	min. size: 1.5 in. caliper 7' H x 3.1' W Standard Trunk	
	Chilopsis linearis Desert Willow 'Warren Jones'	min. size: 1.5 in. caliper 7' H x 3.5' W Standard Trunk	
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper 6' H x 2.5' W Low Branch/Multi	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Fraxinus velutina Velvet Ash	min. size: 1.5 in. caliper 7' H x 3.5' W Standard Trunk	
	Hovardia pollens Tenaza 'Sierra Sparkler'	min. size: 1.5 in. caliper 7' H x 3.5' W Standard Trunk	
	Parkinsonia floridum Blue Palo Verde	min. size: 1.5 in. caliper 7' H x 3.5' W Low Branch Standard	
	Parkinsonia microphyllum Foothills Palo Verde	min. size: 1.5 in. caliper 7' H x 3.5' W Low Branch Standard	

**SHRUBS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Acacia greggii Catclaw acacia	5 gal	
	Baileya multiradiata Desert Marigold	1 gal	
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	
	Chrysactinia mexicana Damianita	1 gal	
	Conoclinium greggii 'Boothill'	1 gal	
	Celtis pallida Hackberry	1 gal	
	Eremophila glabra Red flowering Emu bush	5 gal	
	Euphorbia antispyphillica Candelilla	5 gal	
	Glandularia x Summer Beauty Verbena	1 gal	

**SHRUBS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Larrea tridentata Creosote Bush	5 gal	
	Nassella tenuissima Mexican Feather Grass	1 gal	
	Penstemon wrightii Wright Penstemon	1 gal	
	Plumbago scandens Native plumbago	1 gal	
	Simmondsia chinensis Jojoba	5 gal	

**CACTI AND ACCENTS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Agave parryi v. parryi Parry's Agave	5 gal	
	Carnegiea gigantea Saguaro	4' spear	
	Ferocactus wislizenii Fishhook Barrel	1' min. H	

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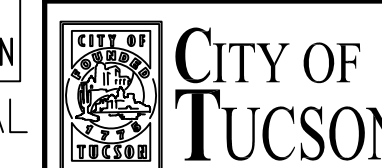
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**PLANTING PLAN**

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

137  
OF  
184



DRWN. BY H. FLUGSTAD  
DSGN. BY L. RIBES, H.F., C.M.  
CHKD. BY L. RIBES

REF. CL-PLPL05 SCALE: 1"=20'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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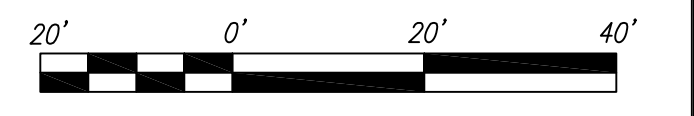
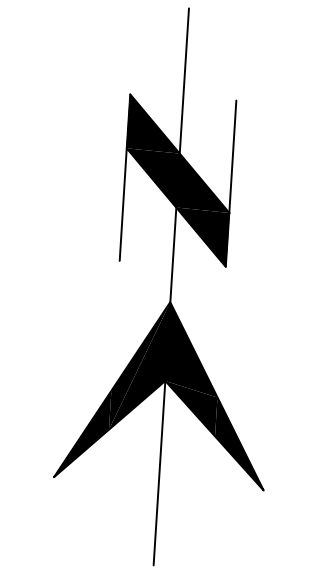
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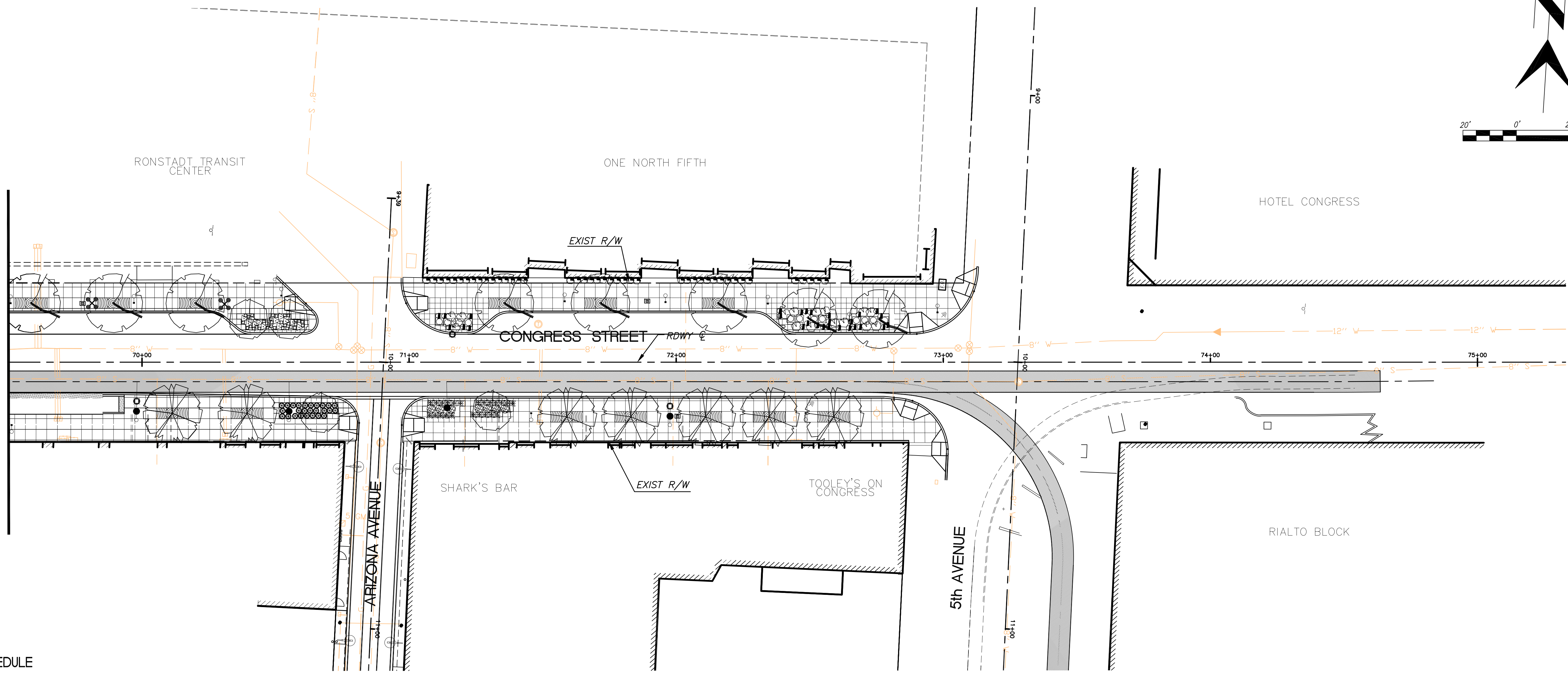


RONSTADT TRANSIT CENTER

ONE NORTH FIFTH

HOTEL CONGRESS

MATCHLINE STA 69+50  
SEE DWG. CL-PLPL05



PLANT SCHEDULE  
TREES

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Caesalpinia cacalco Cascalote, 'Smoothie'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Chilopsis linearis Desert Willow 'Warren Jones'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper  6' H x 2.5' W Low Branch/Multi	

SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Fraxinus velutina Velvet Ash	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Hovardia pallens Tenaza 'Sierra Sparkler'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Parkinsonia floridum Blue Palo Verde approved salvaged specimens acceptable	min. size: 1.5 in. caliper  7' H x 3.5' W Low Branch Standard	
	Parkinsonia microphyllum Foothills Palo Verde approved salvaged specimens acceptable	min. size: 1.5 in. caliper  7' H x 3.5' W Low Branch Standard	

SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Acacia greggii Catclaw acacia	5 gal	
	Baileya multiradiata Desert Marigold	1 gal	
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	
	Chrysactinia mexicana Damianita	1 gal	
	Conoclinium greggii 'Boothill'	1 gal	
	Celtis pallida Hackberry	1 gal	
	Eremophila glabra Red flowering Emu bush	5 gal	
	Euphorbia antisyphilitica Candelilla	5 gal	
	Glandularia x Summer Beauty Verbena	1 gal	

SHRUBS

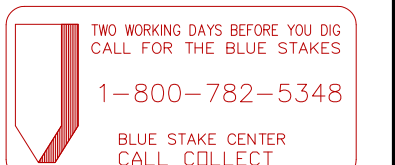
SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Larrea tridentata Creosote Bush	5 gal	
	Nassella tenuissima Mexican Feather Grass	1 gal	
	Penstemon wrightii Wright Penstemon	1 gal	
	Plumbago scandens Native plumbago	1 gal	
	Simmondsia chinensis Jojoba	5 gal	

CACTI AND ACCENTS

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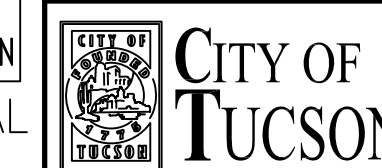
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03.10.09  
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75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

138  
OF  
184



DRWN. BY H. FLUGSTAD  
DSGN. BY L. RIBES, H.F., C.M.  
CHKD. BY L. RIBES

REF. CL-PLPL06 SCALE: 1"=20'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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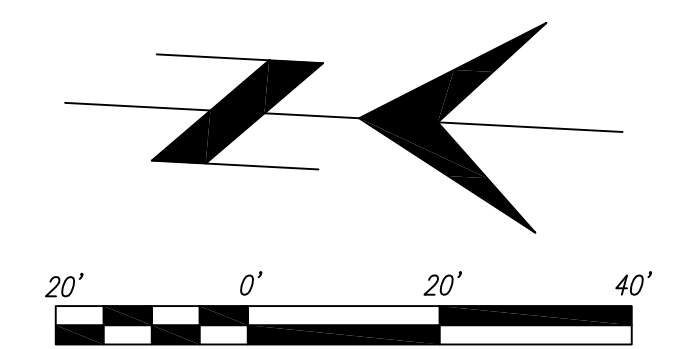
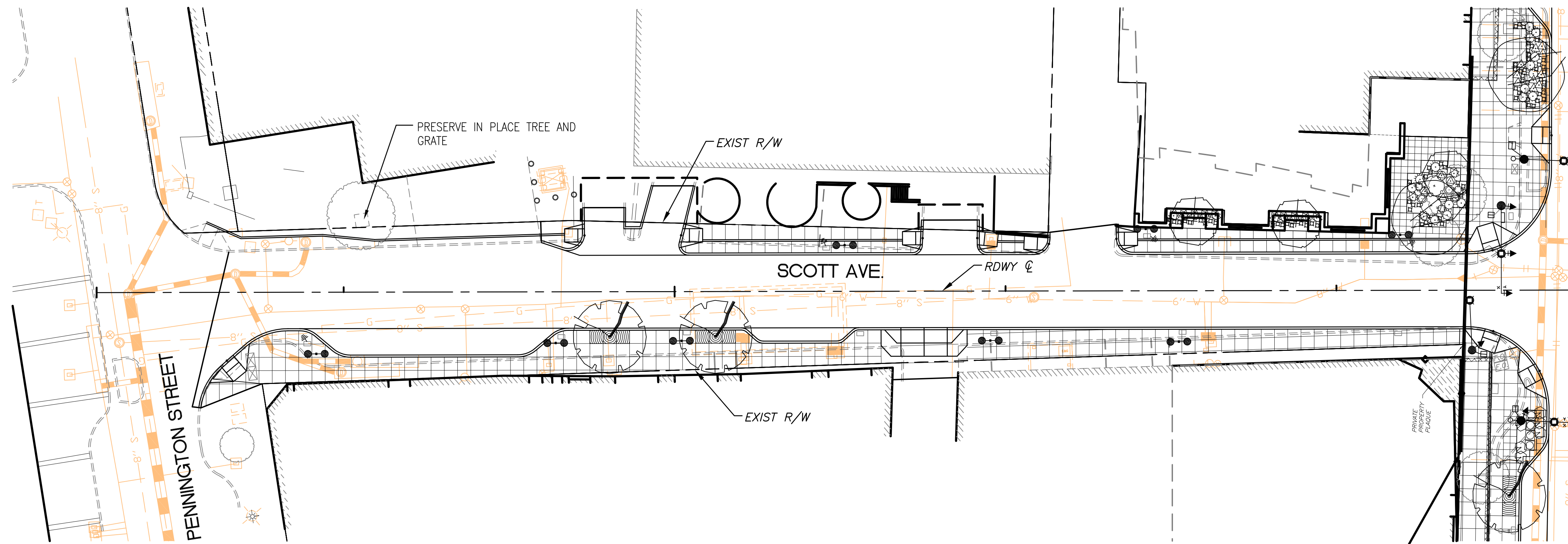
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MATCHLINE STA 7+39.20  
SEE DWG. CL-PLPL05

**PLANT SCHEDULE**

**TREES**

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Caesalpinia cacalco Cascalote 'Smoothie'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Chilopsis linearis Desert Willow 'Warren Jones'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper  6' H x 2.5' W Low Branch/Multi	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Fraxinus velutina Velvet Ash	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Hovardia pallens Tenaza 'Sierra Sparkler'	min. size: 1.5 in. caliper  7' H x 3.5' W Standard Trunk	
	Parkinsonia floridum Blue Palo Verde	min. size: 1.5 in. caliper	
	approved salvaged specimens acceptable	7' H x 3.5' W Low Branch Standard	
	Parkinsonia microphyllum Foothills Palo Verde	min. size: 1.5 in. caliper	
	approved salvaged specimens acceptable	7' H x 3.5' W Low Branch Standard	

**SHRUBS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Acacia greggii Catalaw acacia	5 gal	
	Baileya multiradiata Desert Marigold	1 gal	
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	
	Chrysactinia mexicana Darnianta	1 gal	
	Conoclinium greggii 'Boothill'	1 gal	
	Celtis pallida Hackberry	1 gal	
	Eremophila glabra Red flowering Emu bush	5 gal	
	Euphorbia antisiphilitica Candelilla	5 gal	
	Glandularia x Summer Beauty Verbena	1 gal	

**SHRUBS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Larrea tridentata Creosote Bush	5 gal	
	Nassella tenuissima Mexican Feather Grass	1 gal	
	Penstemon wrightii Wright Penstemon	1 gal	
	Plumbago scandens Native plumbago	1 gal	
	Simmondsia chinensis Jojoba	5 gal	

**CACTI AND ACCENTS**

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Agave parryi v. parryi Parry's Agave	5 gal	
	Carnegiea gigantea Saguaro	4' spear	
	Ferocactus wislizenii Fishhook Barrel	1' min. H	

**GENERAL NOTES**

1. Contractor is responsible to verify all plant quantities. The plant list is intended as a reference only. Quantities shown are for Scott Ave. project limits from Broadway Blvd. to 14th St.
2. "Low Branch Standard" is defined as a tree with more than one main trunk, breaking more than 12" above soil line. "Multi Trunk" is defined as a tree with more than one main trunk originating at or near soil line.
3. Tree caliper for standard trunk trees shall be measured at the widest point within the first four to six inches above the soil of the container for 15-gallon and 24-inch box trees. Caliper for multi trunk is determined by taking half the caliper of up to the three largest trunks.
4. Locate trees as shown on plan. Final tree location to be staked and approved by Landscape Architect.

1-800-782-5348  
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**PLANTING PLAN**

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-PENNINGTON ST. TO BROADWAY BLVD.		139 OF 184
		DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M. CHKD. BY L. RIBES	REF. SL-PLPL01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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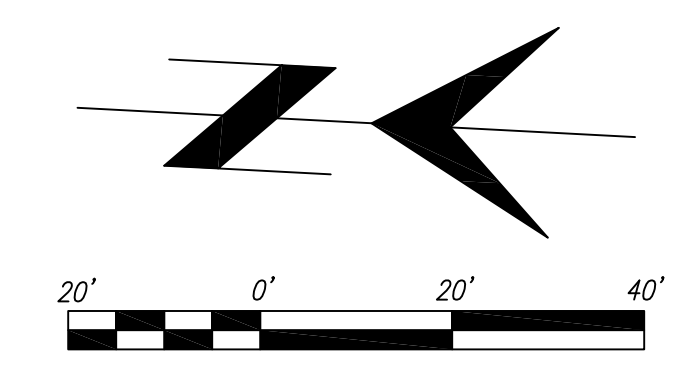
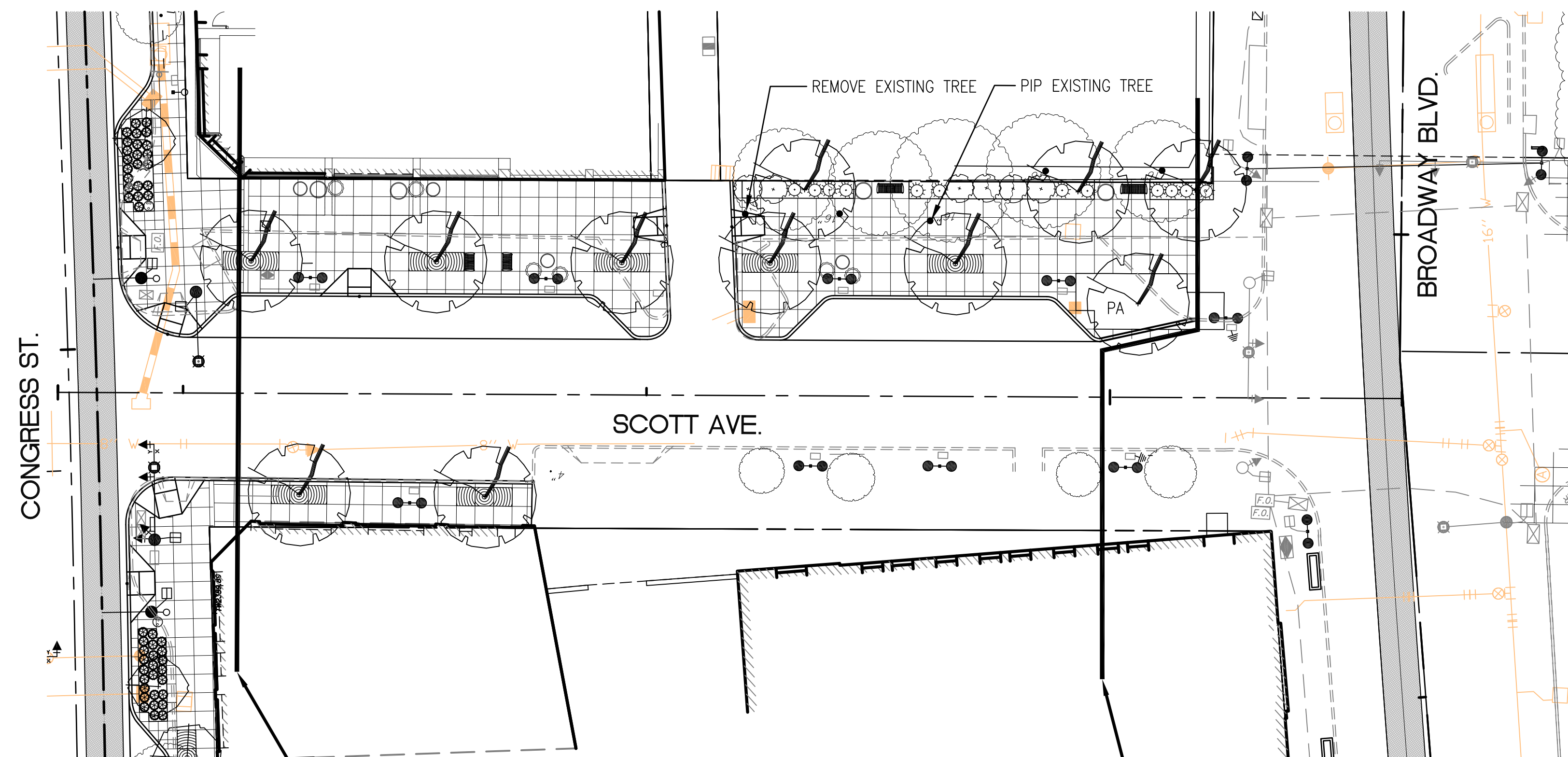
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9+00

10+00

11+00



SEE SCOTT PLAN  
NO. I-2008-027

MATCHLINE STA 8+12.31  
SEE DWG. CL-PLPL05

MATCHLINE STA 9+97.97  
SEE DWG. BL-PLPL05

**PLANT SCHEDULE**  
**TREES**

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	Conoclinium greggii 'Boothill'	1 gal	
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	Eremophila glabra Red flowering Emu bush	5 gal	
	Euphorbia antisiphilitica Candelilla	5 gal	
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BLUE STAKE CENTER  
CALL, COLLECT

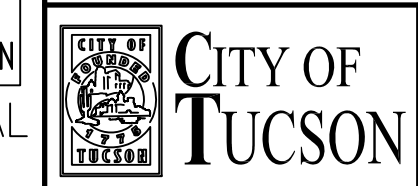
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**PLANTING PLAN**

**PRELIMINARY**  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT**  
**SCOTT AVE.-PENNINGTON ST. TO BROADWAY BLVD.**

**140**  
**OF**  
**184**



DRWN. BY H. FLUGSTAD  
DSGN. BY L. RIBES, H.F., C.M.  
CHKD. BY L. RIBES

REF. SL-PLPL02 SCALE: 1"=20'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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45+00

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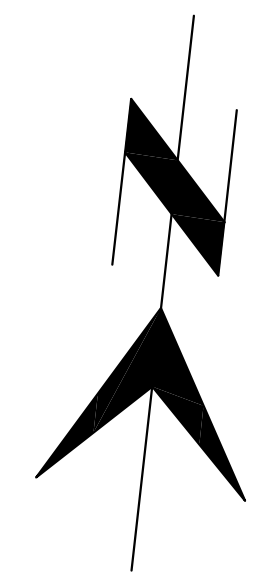
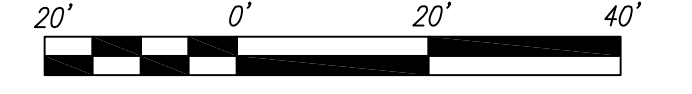
49+00

GRANADA AVENUE

CONGRESS STREET

BROADWAY BLVD.

MATCHLINE STA 14+00 MATCHLINE STA 49+50  
SEE DWG. BL-IRPLO2 SEE DWG. CL-IRPLO2



### IRRIGATION LEGEND

- SLEEVES: SCHEDULE 40 PVC
- MAINLINE PIPE: SCHEDULE 40 PVC (1/4-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO POTTED PLANTS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO TREE EMITTERS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO SHRUB EMITTERS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION (P.O.C) ASSEMBLY
- ISOLATION GATE VALVE ASSEMBLY (GRISWOLD)
- QUICK COUPLING VALVE ASSEMBLY (RAINBIRD)
- REMOTE CONTROL VALVE ASSEMBLY FOR DRIP LATERALS (RAINBIRD)
- FLUSH CAP ASSEMBLY
- IRRIGATION CONTROLLER UNIT (FROM SCOTT AVE.):  
CONTROLLER A: CALSENSE ET2000e-40-LR: 12 STA. USED
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES PLANT MATERIAL TO BE IRRIGATED
- APPROXIMATE TREE LOCATIONS

### CONSTRUCTION NOTES

- 1 CONTRACTOR SHALL FIELD LOCATE AND CONNECT TO IRRIGATION STUBOUT PROVIDED AT SOUTHEAST CORNER OF SCOTT AVE AND BROADWAY BLVD. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
- 2 CONTRACTOR SHALL FIELD LOCATE AND CONNECT TO CONTROL WIRE STUBOUT PROVIDED AT SOUTHEAST CORNER OF SCOTT AVE AND BROADWAY BLVD. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
- 3 IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY. INSTALL IRRIGATION COMPONENT WITHIN LANDSCAPED AREA.

### IRRIGATION PLAN

**P** PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.



DRWN. BY M. HALL  
DSGN. BY M. HALL  
CHKD. BY J. HINES

REF. CL-IRPLO1 SCALE: 1"=20'  
PLAN NO. I-2008-035

141  
OF  
184

NO.	DATE	REVISION	BY	CHKD.	APPR.

P:\West Shore\Overseas\Irrigation Infrastructure\CONGRESS\IG - Downtown\Irrigation Infrastructure\IRPL01.dwg  
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 J. HINES

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50+00

51+00

52+00

53+00

54+00

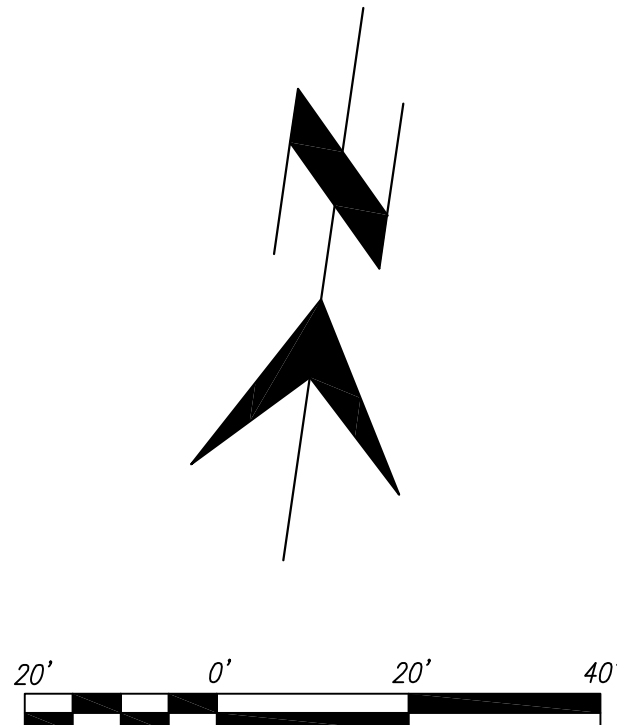
MATCHLINE STA 49+50  
SEE DWG. CL-IRPL01

MATCHLINE STA 54+50  
SEE DWG. CL-IRPL03

CONGRESS STREET

BROADWAY BLVD.

POTENTIAL IRRIGATION  
REWORK IN THIS AREA



### IRRIGATION LEGEND

- SLEEVES: SCHEDULE 40 PVC
- MAINLINE PIPE: SCHEDULE 40 PVC (1/4-INCH Ø UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO POTTED PLANTS: SCHEDULE 40 PVC (1/2-INCH Ø UNLESS OTHERWISE INDICATED)
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- REMOTE CONTROL VALVE ASSEMBLY FOR DRIP LATERALS (RAINBIRD)
- FLUSH CAP ASSEMBLY
- IRRIGATION CONTROLLER UNIT (FROM SCOTT AVE);  
CONTROLLER A: CALSENSE ET2000s-48-LR: 12 STA. USED
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE Ø (INCHES)
- INDICATES PLANT MATERIAL TO BE IRRIGATED
- APPROXIMATE TREE LOCATIONS

### CONSTRUCTION NOTES

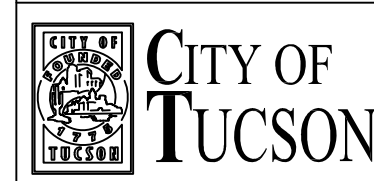
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- 3 IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY. INSTALL IRRIGATION COMPONENT WITHIN LANDSCAPED AREA.

### IRRIGATION PLAN

**P** PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

142  
OF  
184



DRWN. BY	M. HALL
DSGN. BY	M. HALL
CHKD. BY	J. HINES

REF.	CL-IRPL02	SCALE:	1"=20'
PLAN NO.	I-2008-035		

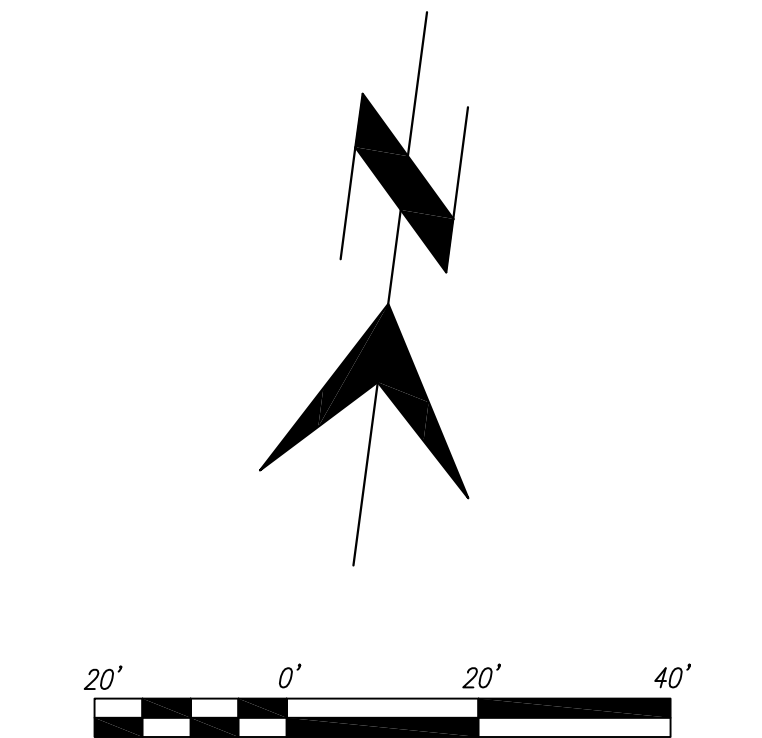
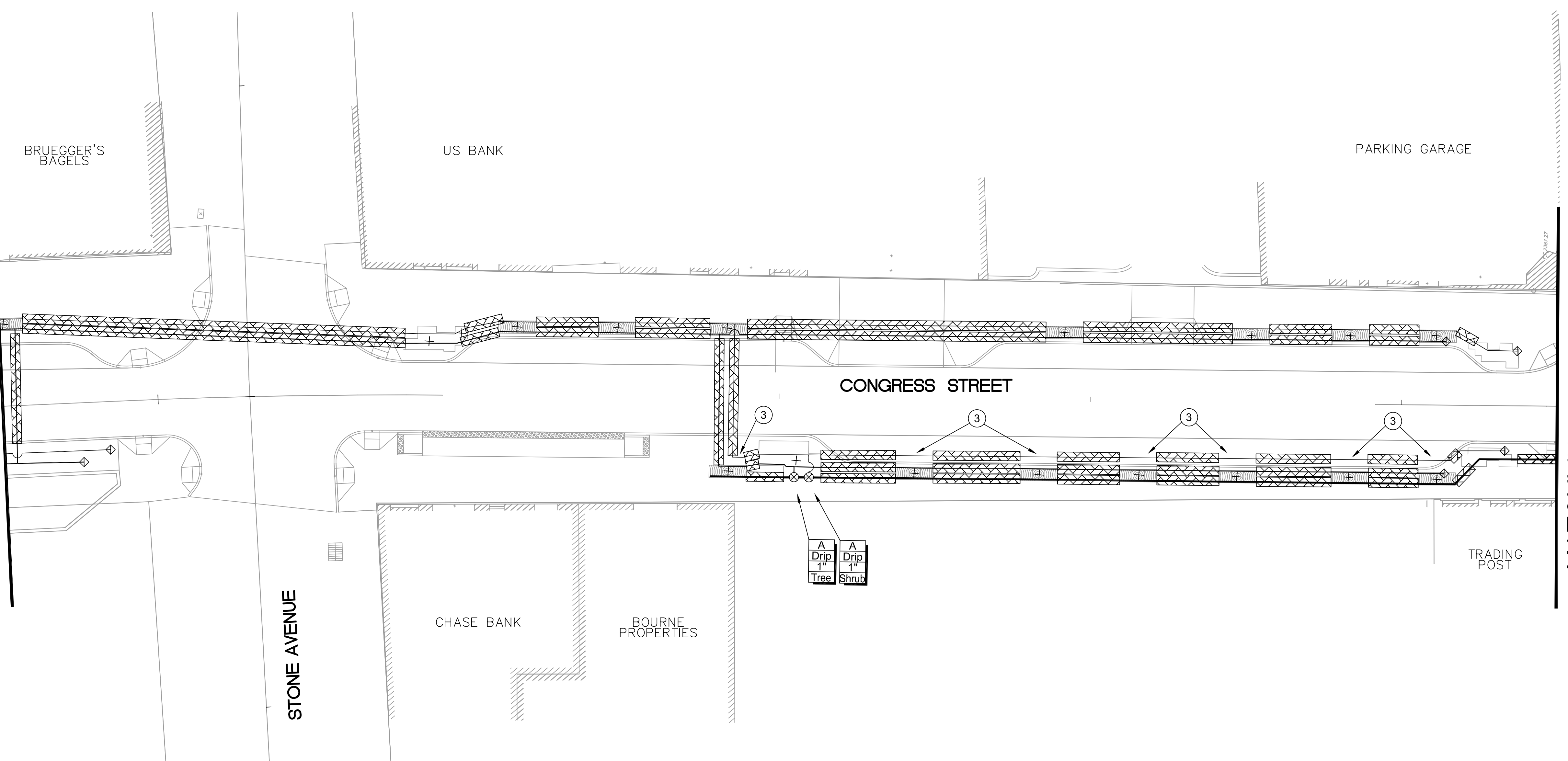
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60+00 61+00 62+00 63+00 64+00



MATCHLINE STA 59+50  
SEE DWG. CL-IRPL03

MATCHLINE STA 64+50  
SEE DWG. CL-IRPL05

**IRRIGATION LEGEND**

- SLEEVES: SCHEDULE 40 PVC
- MAINLINE PIPE: SCHEDULE 40 PVC (1 1/4-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO POTTED PLANTS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO TREE EMITTERS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
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- UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION (P.O.C.) ASSEMBLY
- ISOLATION GATE VALVE ASSEMBLY (GRISWOLD)
- QUICK COUPLING VALVE ASSEMBLY (RAINBIRD)
- REMOTE CONTROL VALVE ASSEMBLY FOR DRIP LATERALS (RAINBIRD)
- FLUSH CAP ASSEMBLY
- IRRIGATION CONTROLLER UNIT (FROM SCOTT AVE); CONTROLLER A: CALSENSE ET2000e-48-LR; 12 STA. USED
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES PLANT MATERIAL TO BE IRRIGATED
- APPROXIMATE TREE LOCATIONS

**CONSTRUCTION NOTES**

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**IRRIGATION PLAN**

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BLUE STAKE CENTER  
CALL, COLLECT

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ADVANCE BY STANTEC CONSULTING AND  
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<p><b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>144 OF 184</p>
		<p>DRWN. BY M. HALL DSGN. BY M. HALL CHKD. BY J. HINES</p>	<p>REF. CL-IRPL04 SCALE: 1"=20' PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.

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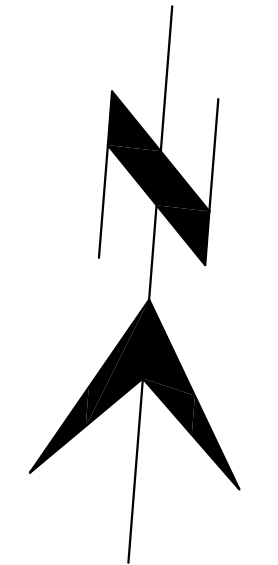
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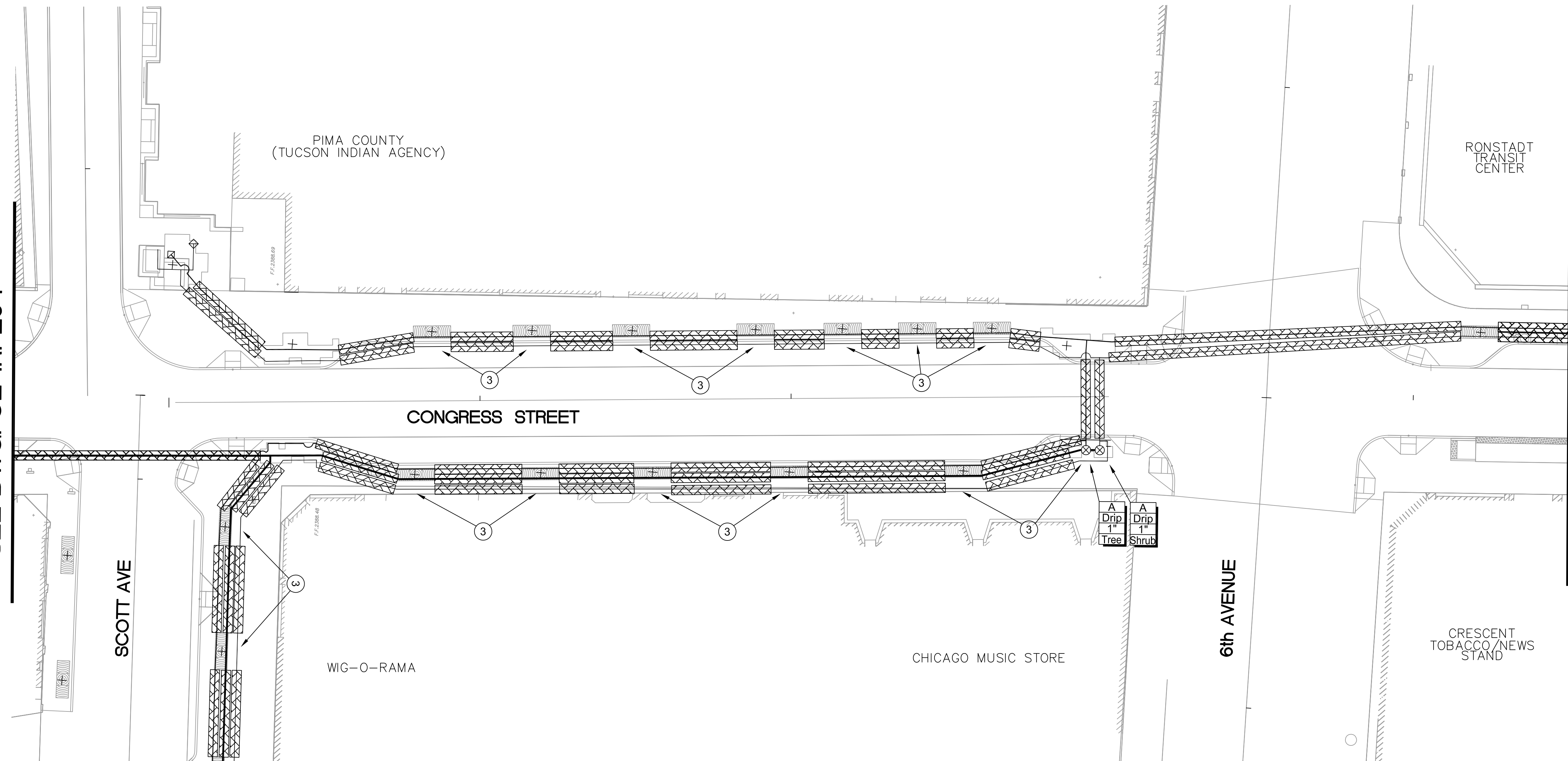
PIMA COUNTY  
(TUCSON INDIAN AGENCY)

RONSTADT  
TRANSIT  
CENTER



MATCHLINE STA 64+50  
SEE DWG. CL-IRPL04

MATCHLINE STA 69+50  
SEE DWG. CL-IRPL06



MATCHLINE STA 7+39.20  
SEE DWG. CL-PLIR07

### IRRIGATION LEGEND

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- MAINLINE PIPE: SCHEDULE 40 PVC (1/4-INCH SIZE UNLESS OTHERWISE INDICATED)
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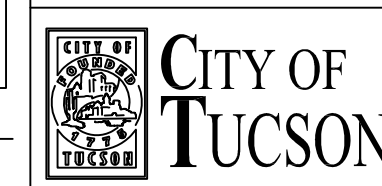
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### IRRIGATION PLAN

**P** PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

145  
OF  
184



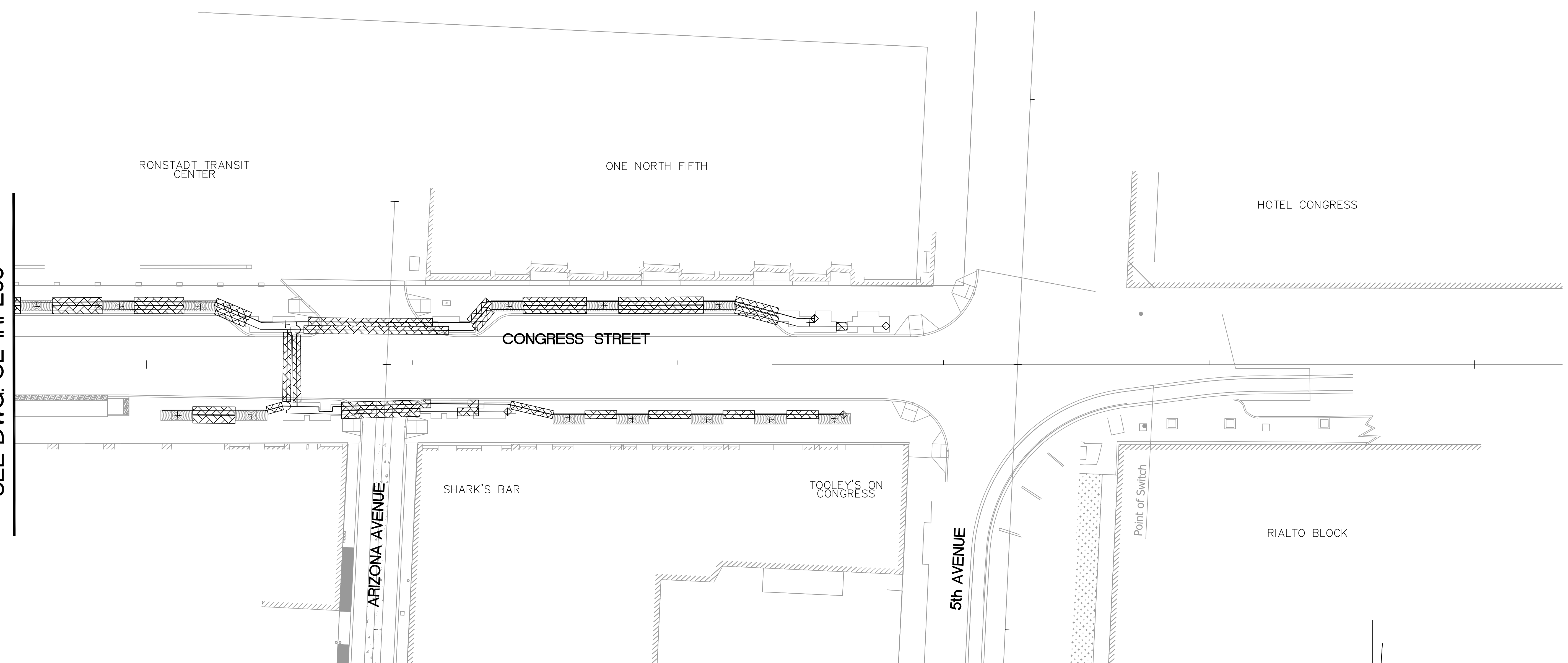
DRWN. BY M. HALL  
DSGN. BY M. HALL  
CHKD. BY J. HINES

REF. CL-IRPL05 SCALE: 1"=20'

PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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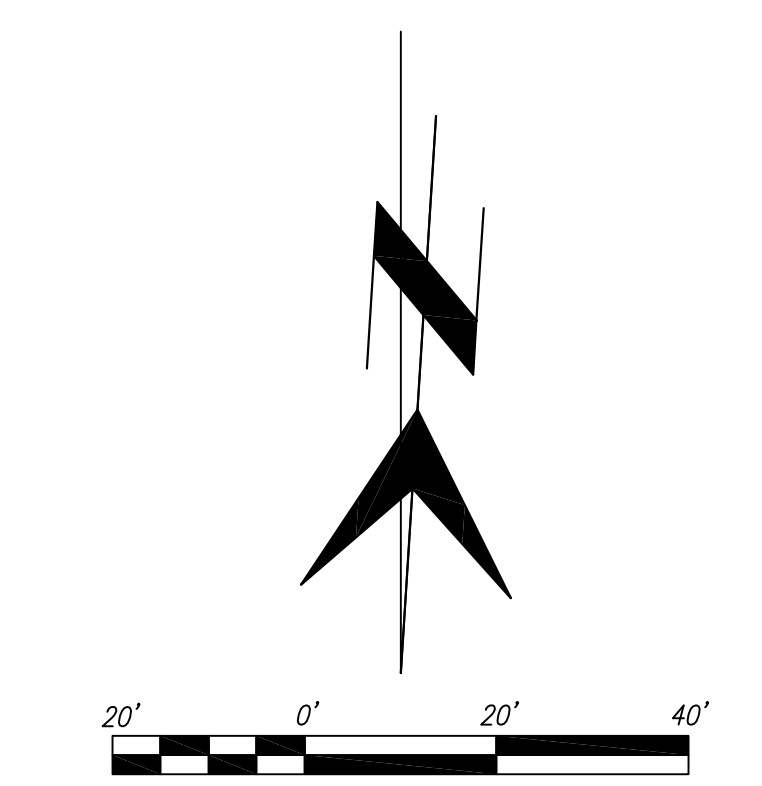


MATCHLINE STA 69+50  
SEE DWG. CL-IRPL05

**IRRIGATION LEGEND**

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- MAINLINE PIPE: SCHEDULE 40 PVC (1/4-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO POTTED PLANTS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO TREE EMITTERS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO SHRUB EMITTERS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION (P.O.C) ASSEMBLY
- ISOLATION GATE VALVE ASSEMBLY (GRISWOLD)
- QUICK COUPLING VALVE ASSEMBLY (RAINBIRD)
- REMOTE CONTROL VALVE ASSEMBLY FOR DRIP LATERALS (RAINBIRD)
- FLUSH CAP ASSEMBLY
- IRRIGATION CONTROLLER UNIT (FROM SCOTT AVE); CONTROLLER A: CALSENSE ET2000e-48-LR; 12 STA. USED
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES PLANT MATERIAL TO BE IRRIGATED
- APPROXIMATE TREE LOCATIONS

- CONSTRUCTION NOTES**
- 1 CONTRACTOR SHALL FIELD LOCATE AND CONNECT TO IRRIGATION STUBOUT PROVIDED AT SOUTHEAST CORNER OF SCOTT AVE AND BROADWAY BLVD. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
  - 2 CONTRACTOR SHALL FIELD LOCATE AND CONNECT TO CONTROL WIRE STUBOUT PROVIDED AT SOUTHEAST CORNER OF SCOTT AVE AND BROADWAY BLVD. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
  - 3 IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY. INSTALL IRRIGATION COMPONENT WITHIN LANDSCAPED AREA.



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**IRRIGATION PLAN**

<p><b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>146 OF 184</p>
		<p>DRWN. BY M. HALL DSGN. BY M. HALL CHKD. BY J. HINES</p>	<p>REF. CL-IRPL06 SCALE: 1"=20' PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.

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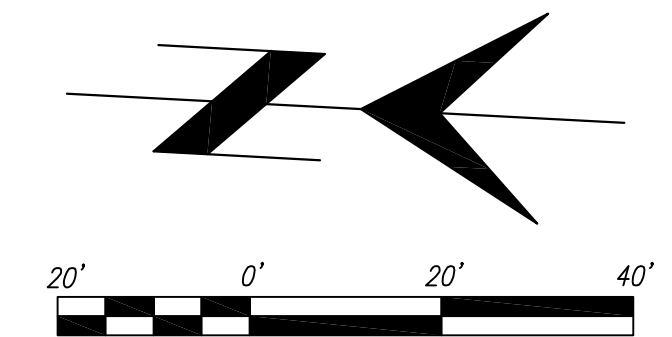
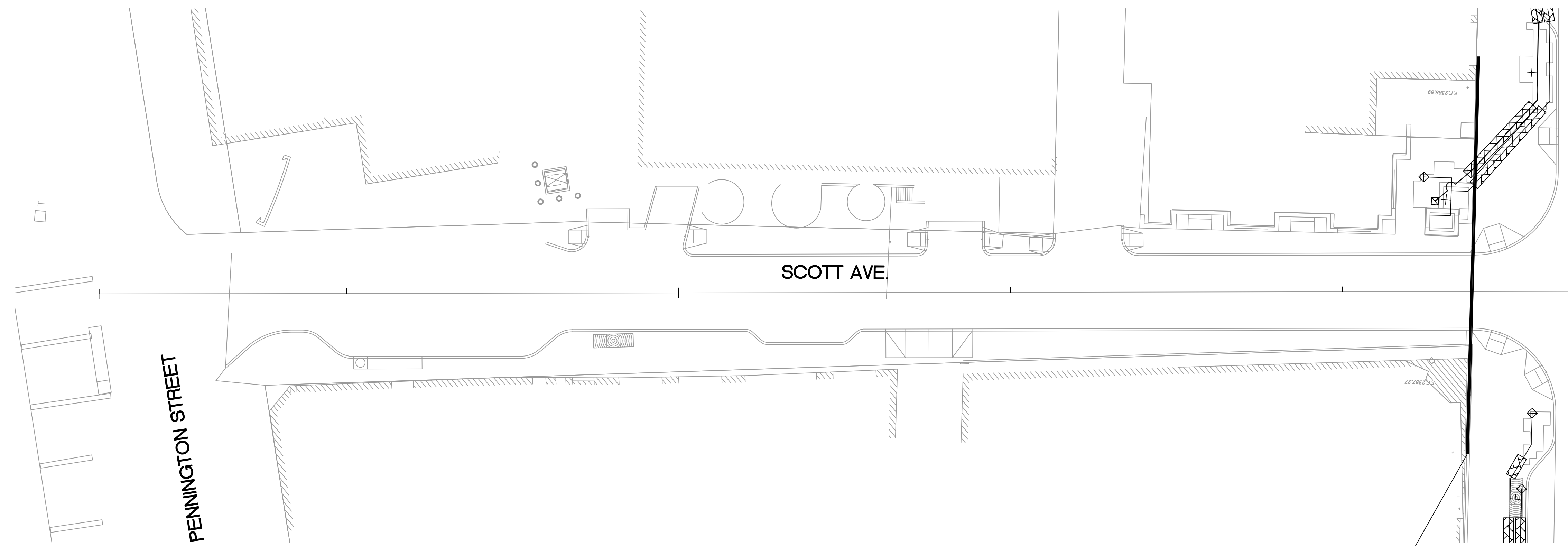
3+00

4+00

5+00

6+00

7+00



MATCHLINE STA 7+39.20  
SEE DWG. CL-IRPL05

**INSTALLATION GENERAL NOTES**

1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 65 PSI, AT A MINIMUM DISCHARGE OF 12 GPM AT THE 3/4-INCH POINT-OF-CONNECTION. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3. COORDINATE UTILITY LOCATES ("CALL FOR 'BLUE STAKE'") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
  - A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
  - B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
  - C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
6. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
  - A. TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.

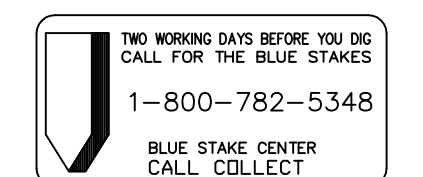
**IRRIGATION LEGEND**

- ☒ SLEEVES: SCHEDULE 40 PVC
- MAINLINE PIPE: SCHEDULE 40 PVC (1 1/4-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO POTTED PLANTS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO TREE EMITTERS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
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- ⊥ UNCONNECTED PIPE CROSSING
- POINT-OF-CONNECTION (P.O.C) ASSEMBLY
- ✱ ISOLATION GATE VALVE ASSEMBLY (GRISWOLD)
- QUICK COUPLING VALVE ASSEMBLY (RAINBIRD)
- ⊗ REMOTE CONTROL VALVE ASSEMBLY FOR DRIP LATERALS (RAINBIRD)
- ◇ FLUSH CAP ASSEMBLY
- Ⓐ IRRIGATION CONTROLLER UNIT (FROM SCOTT AVE); CONTROLLER A: CALSENSE ET2000s-48-LR: 12 STA. USED
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES PLANT MATERIAL TO BE IRRIGATED
- + APPROXIMATE TREE LOCATIONS

**CONSTRUCTION NOTES**

- ① CONTRACTOR SHALL FIELD LOCATE AND CONNECT TO IRRIGATION STUBOUT PROVIDED AT SOUTHEAST CORNER OF SCOTT AVE AND BROADWAY BLVD. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
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- ③ IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY. INSTALL IRRIGATION COMPONENT WITHIN LANDSCAPED AREA.

**IRRIGATION PLAN**



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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

147  
OF  
184

CITY OF TUCSON  
DRWN. BY M. HALL  
DSGN. BY M. HALL  
CHKD. BY J. HINES

REF. CL-IRPL07 SCALE: 1"=20'

PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

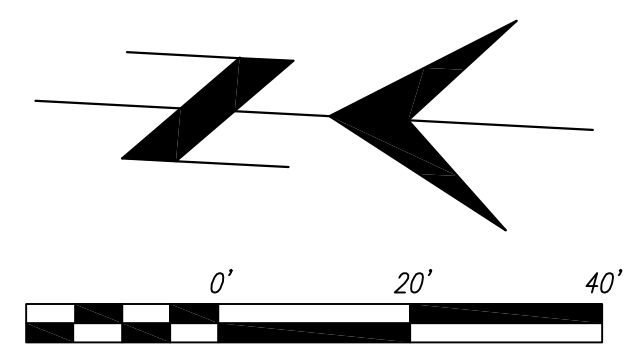
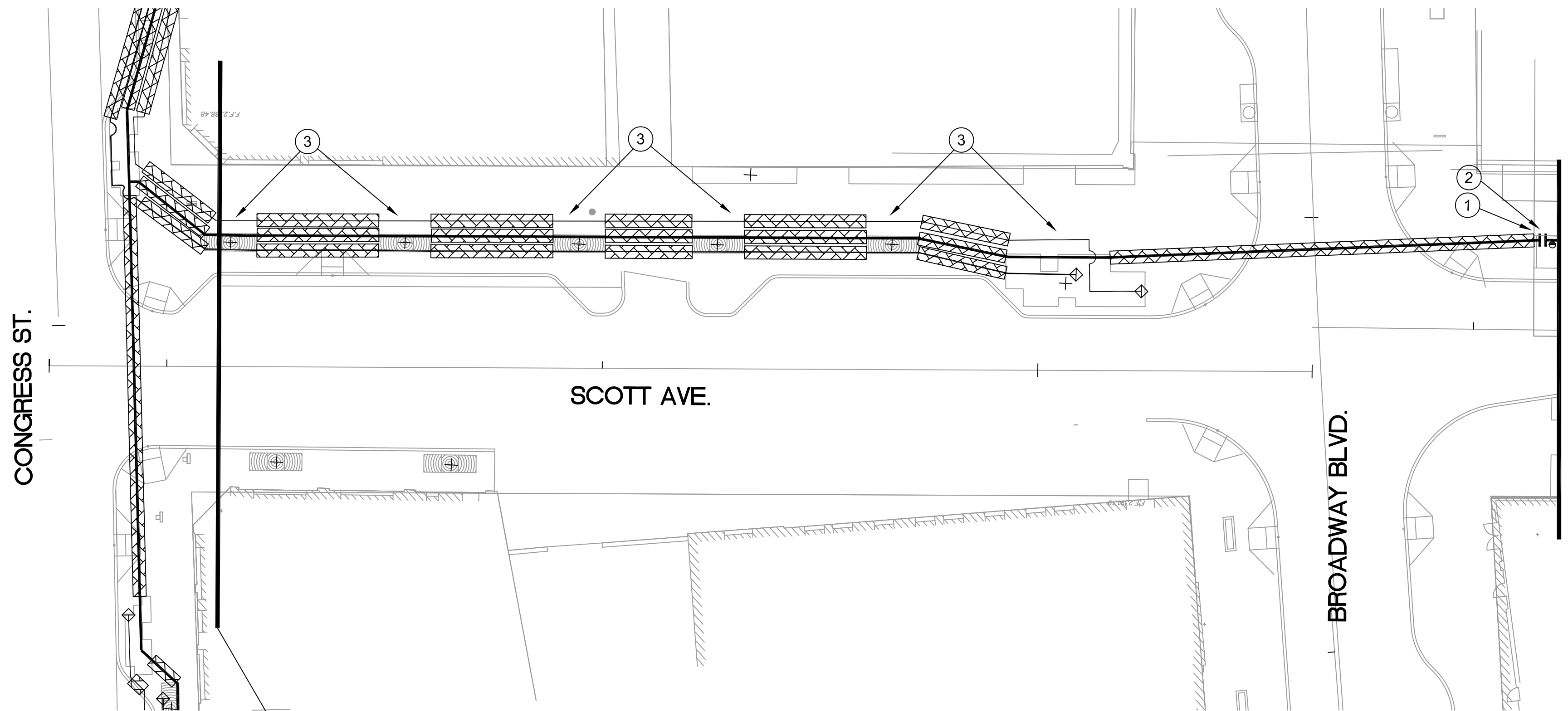
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11+00



SEE SCOTT PLAN  
NO. I-2008-027

MATCHLINE STA 8+12.31  
SEE DWG. CL-IRPL05

**IRRIGATION LEGEND**

- ▨ SLEEVES: SCHEDULE 40 PVC
- MAINLINE PIPE: SCHEDULE 40 PVC (1/4-INCH SIZE UNLESS OTHERWISE INDICATED)
- LATERAL PIPE TO POTTED PLANTS: SCHEDULE 40 PVC (1/2-INCH SIZE UNLESS OTHERWISE INDICATED)
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**CONSTRUCTION NOTES**

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**IRRIGATION PLAN**

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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

148  
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184

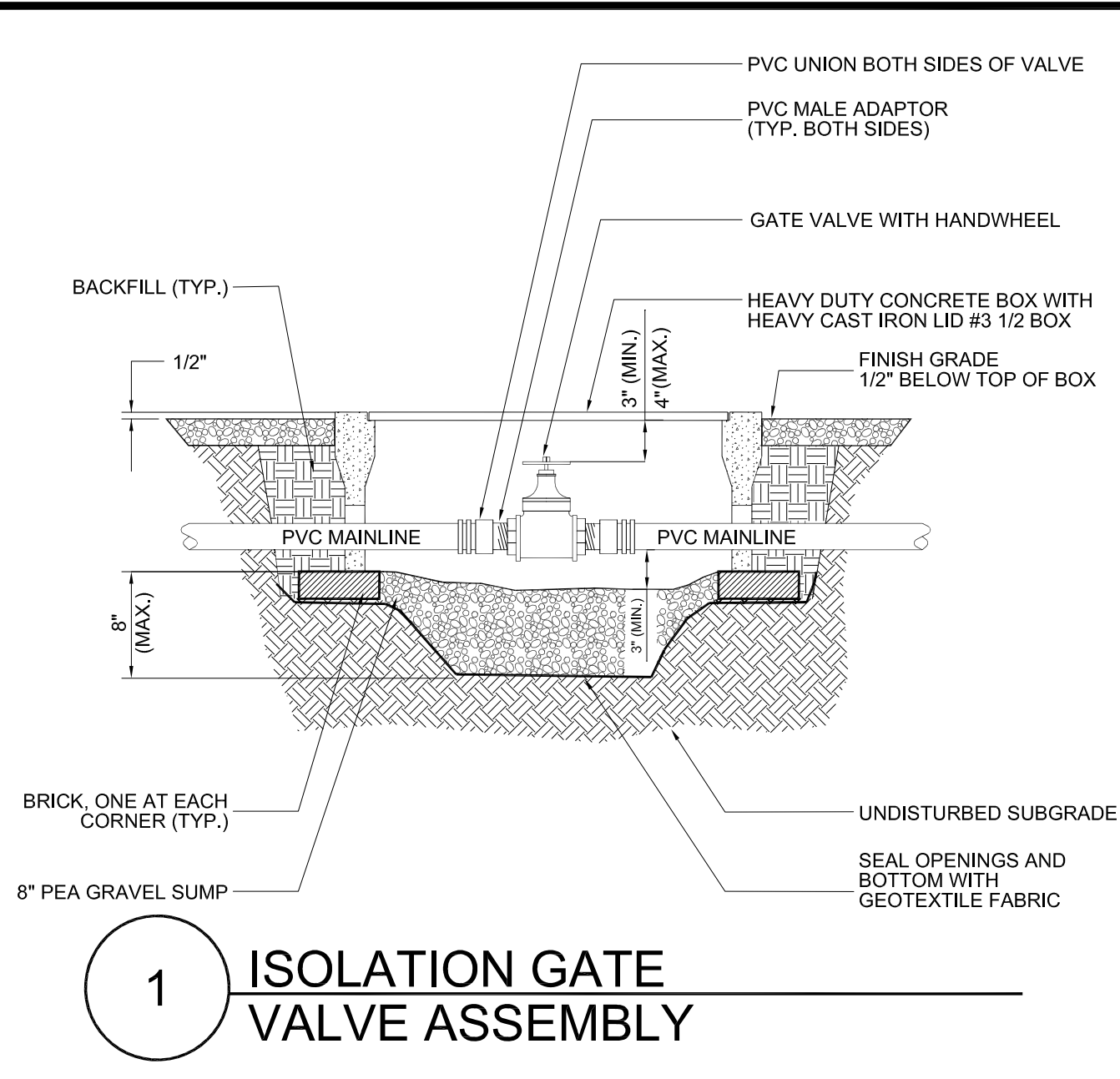
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**TUCSON**

DRWN. BY M. HALL  
DSGN. BY M. HALL  
CHKD. BY J. HINES

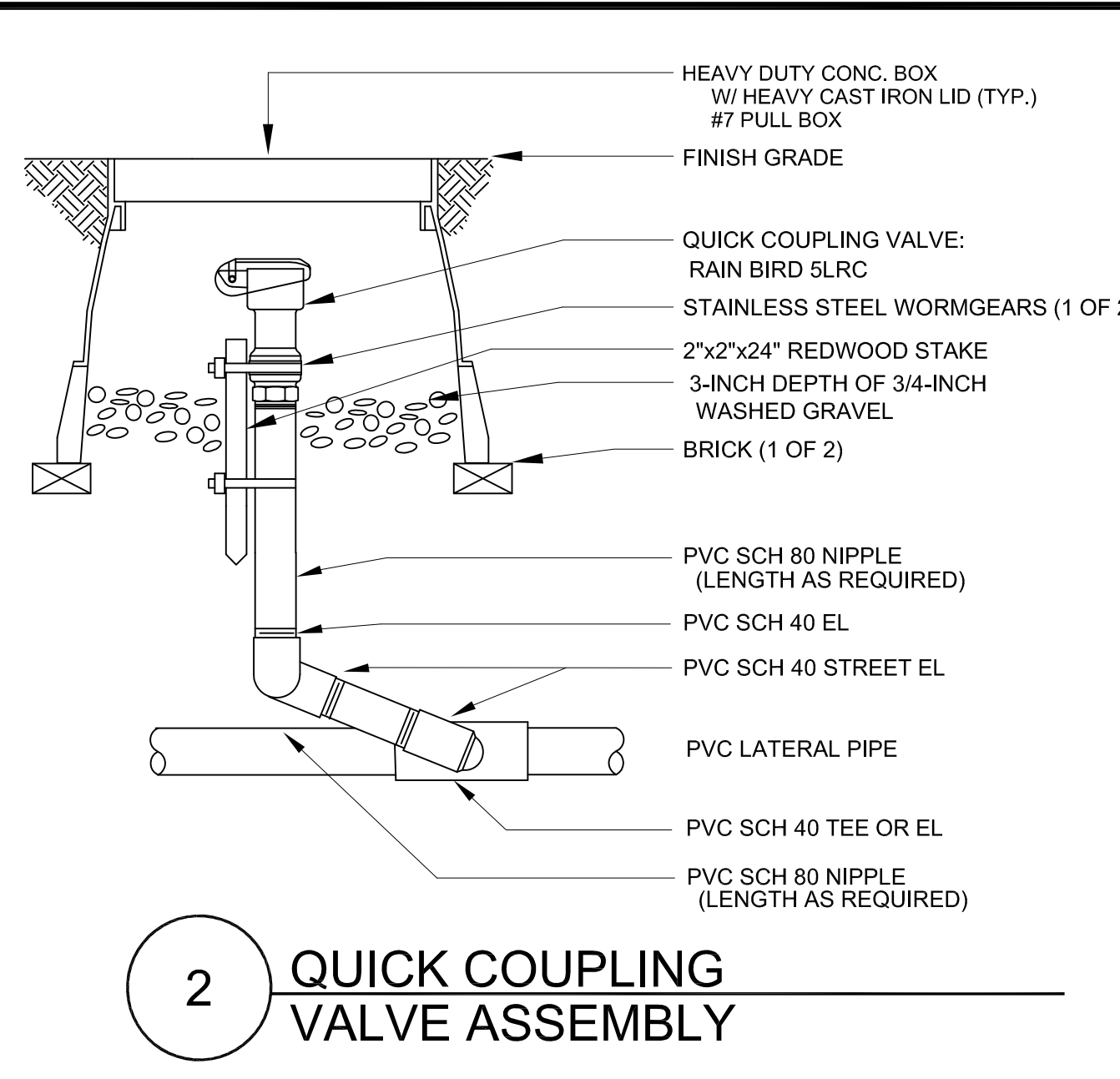
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PLAN NO. I-2008-035

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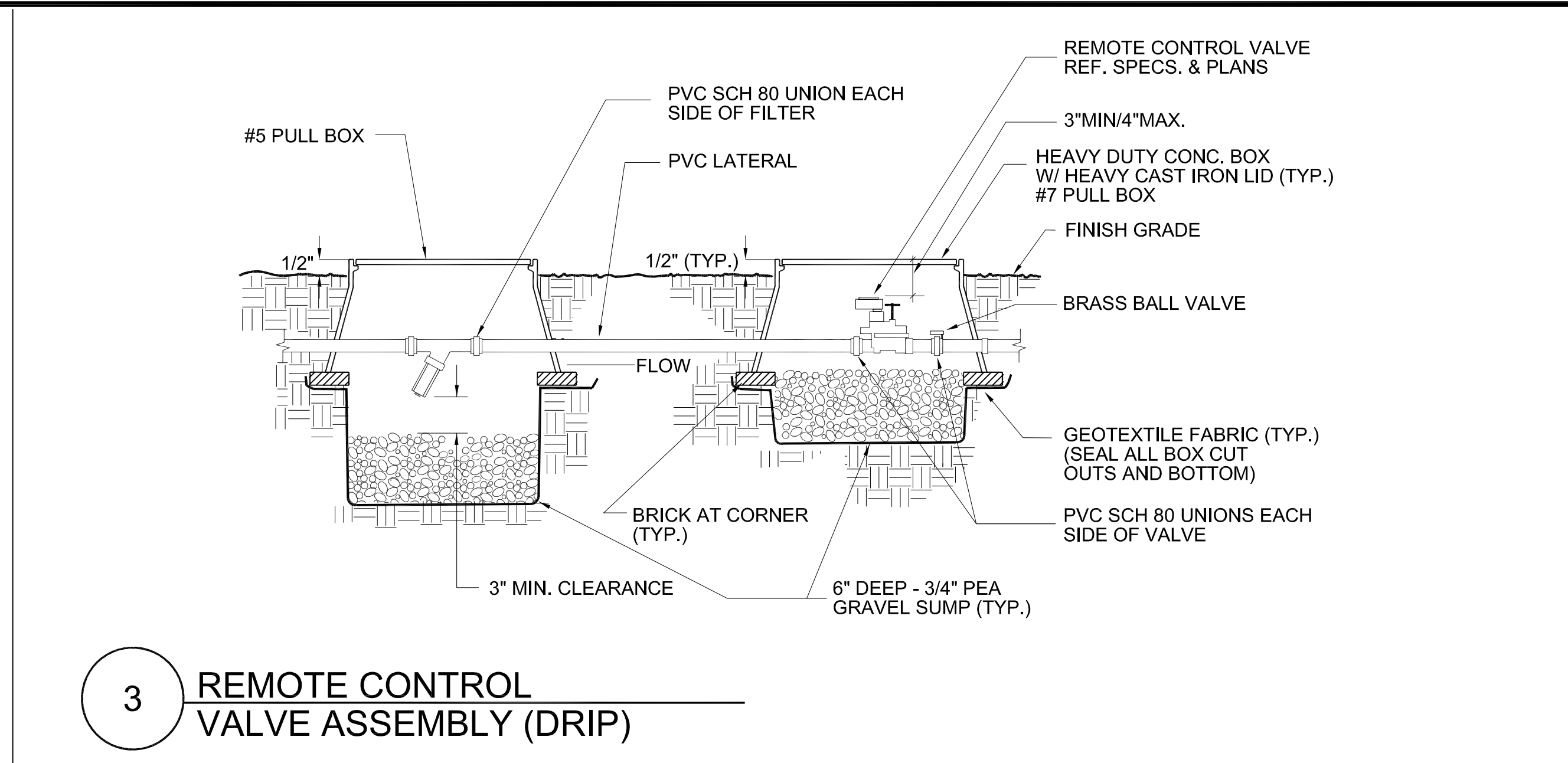
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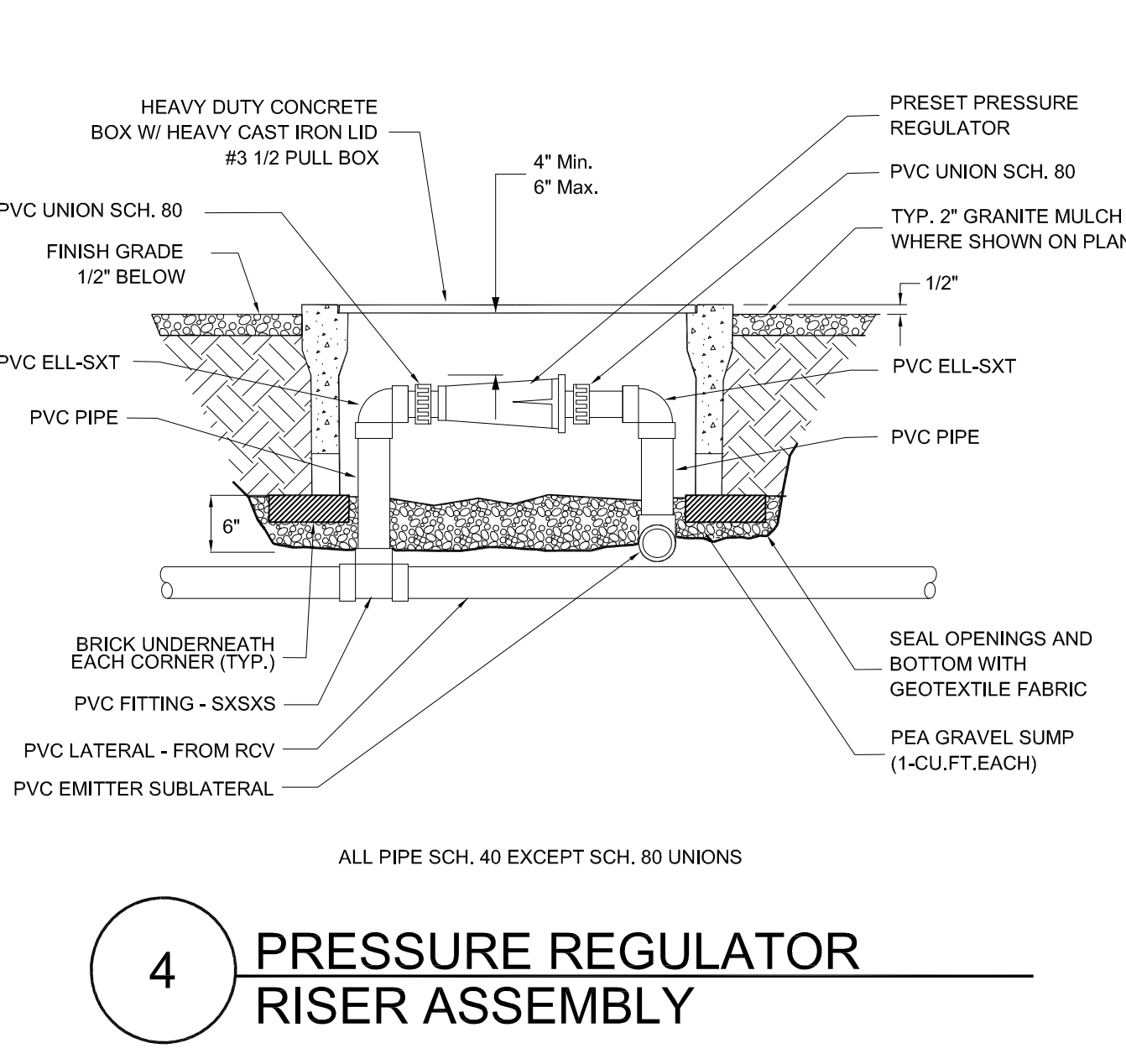
1 ISOLATION GATE VALVE ASSEMBLY



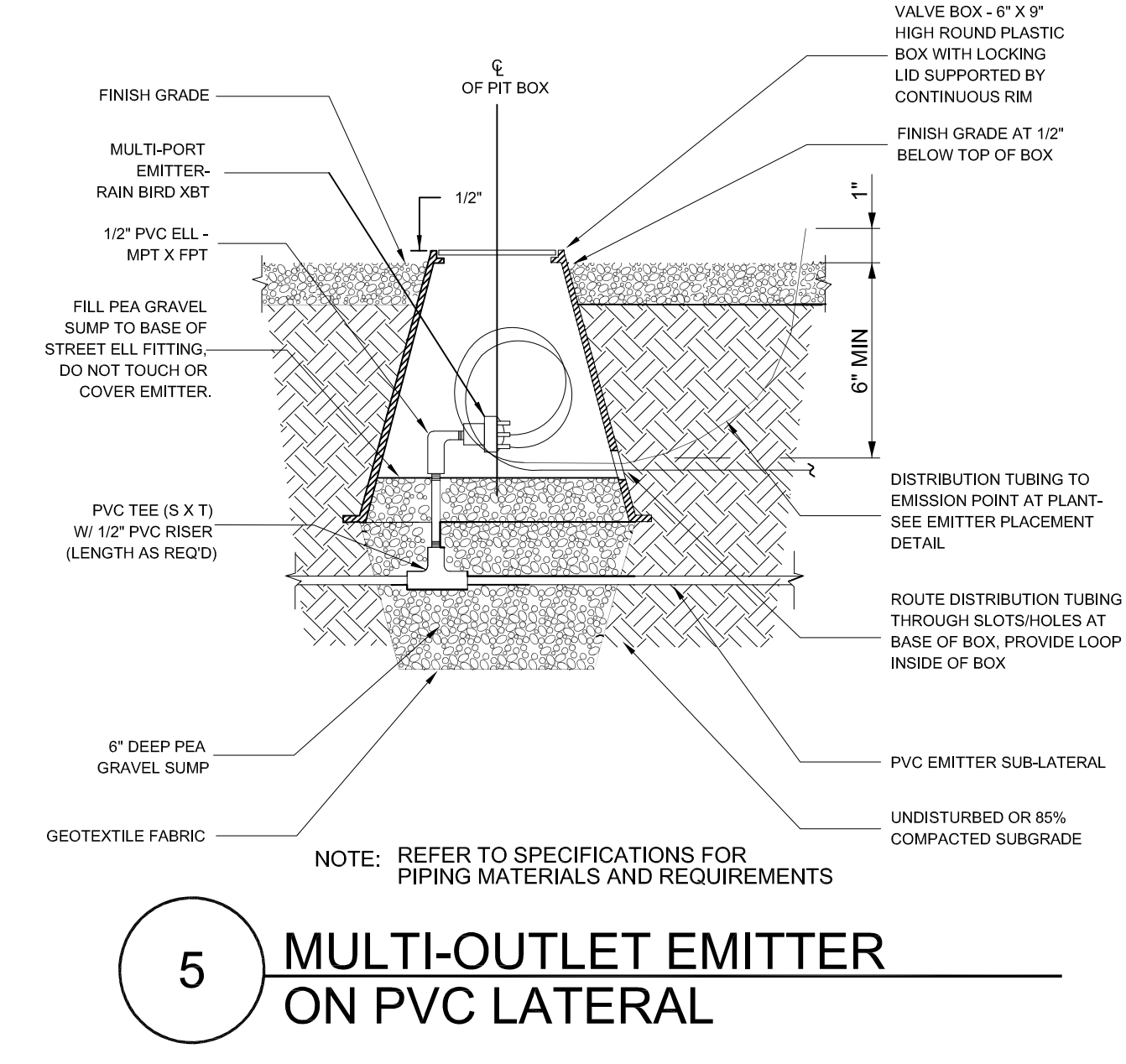
2 QUICK COUPLING VALVE ASSEMBLY



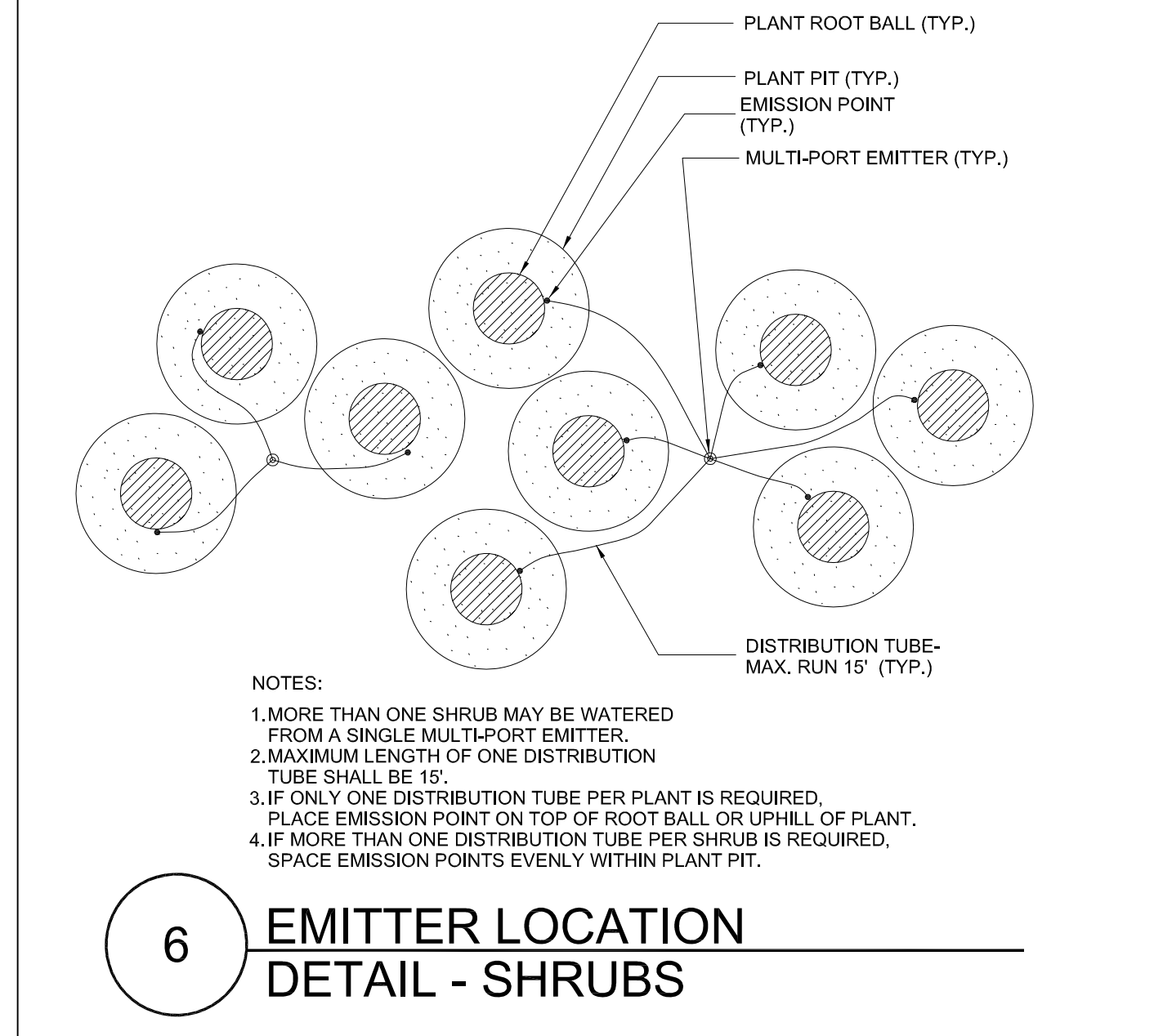
3 REMOTE CONTROL VALVE ASSEMBLY (DRIP)



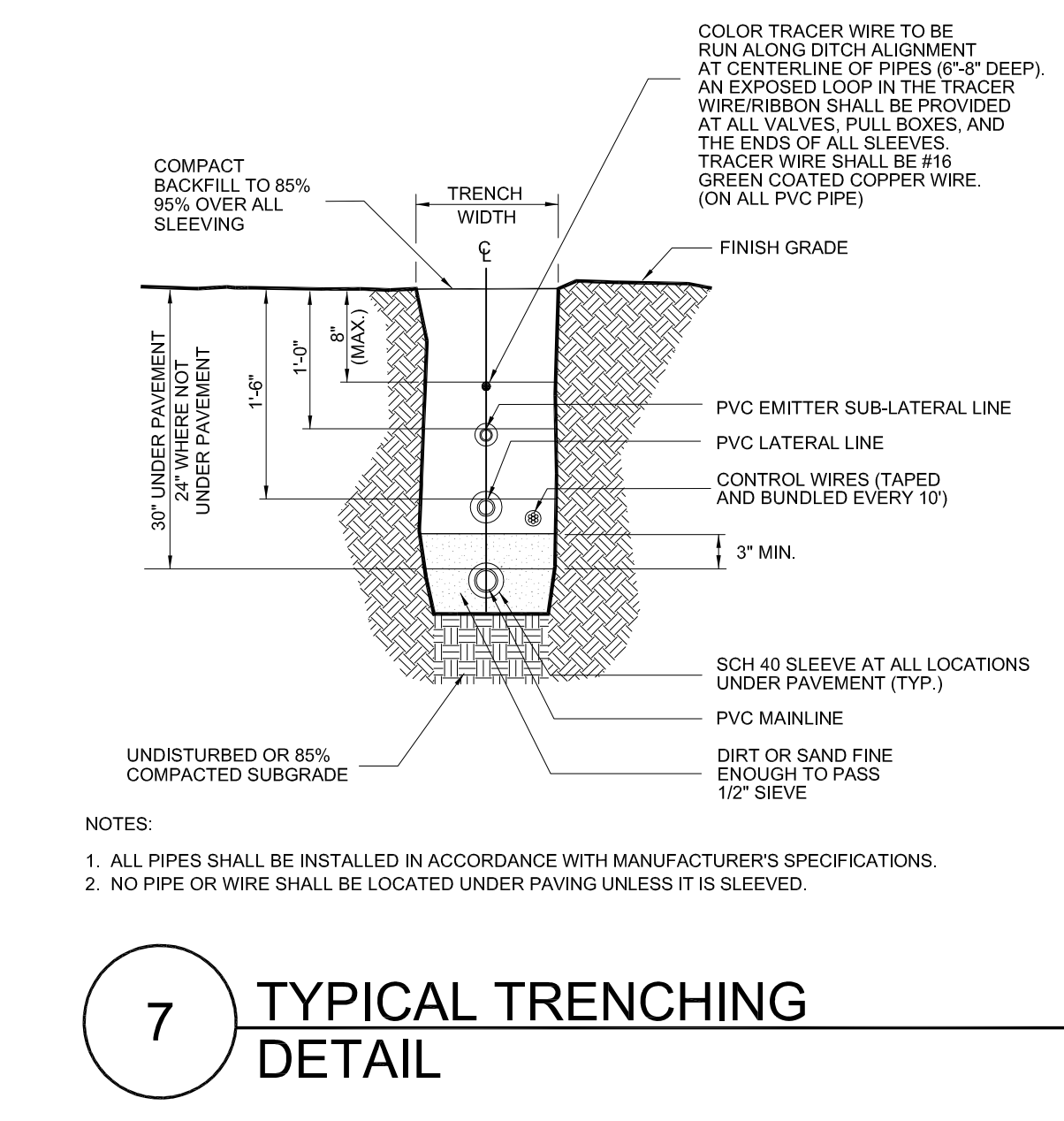
4 PRESSURE REGULATOR RISER ASSEMBLY



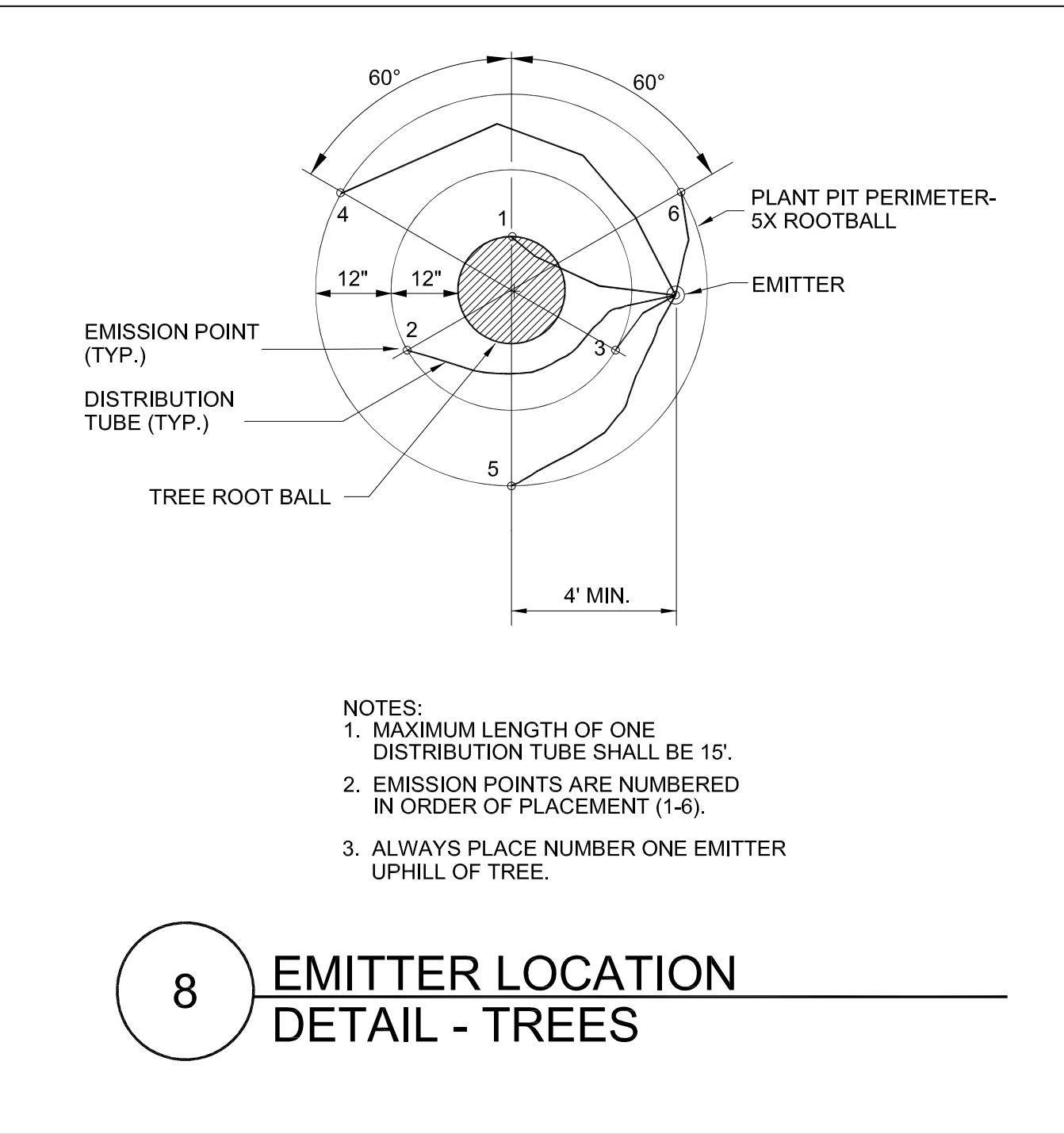
5 MULTI-OUTLET EMITTER ON PVC LATERAL



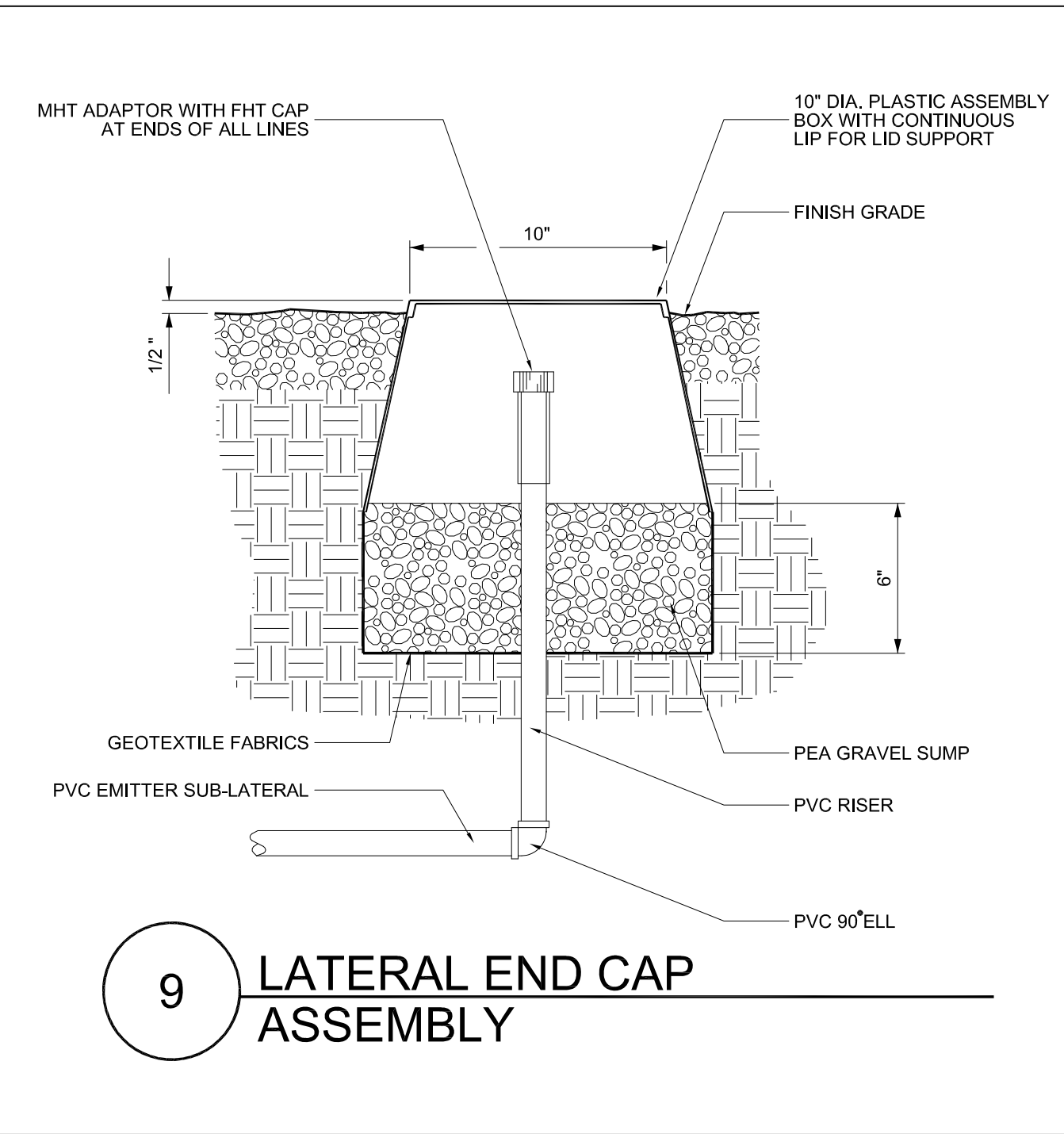
6 EMITTER LOCATION DETAIL - SHRUBS



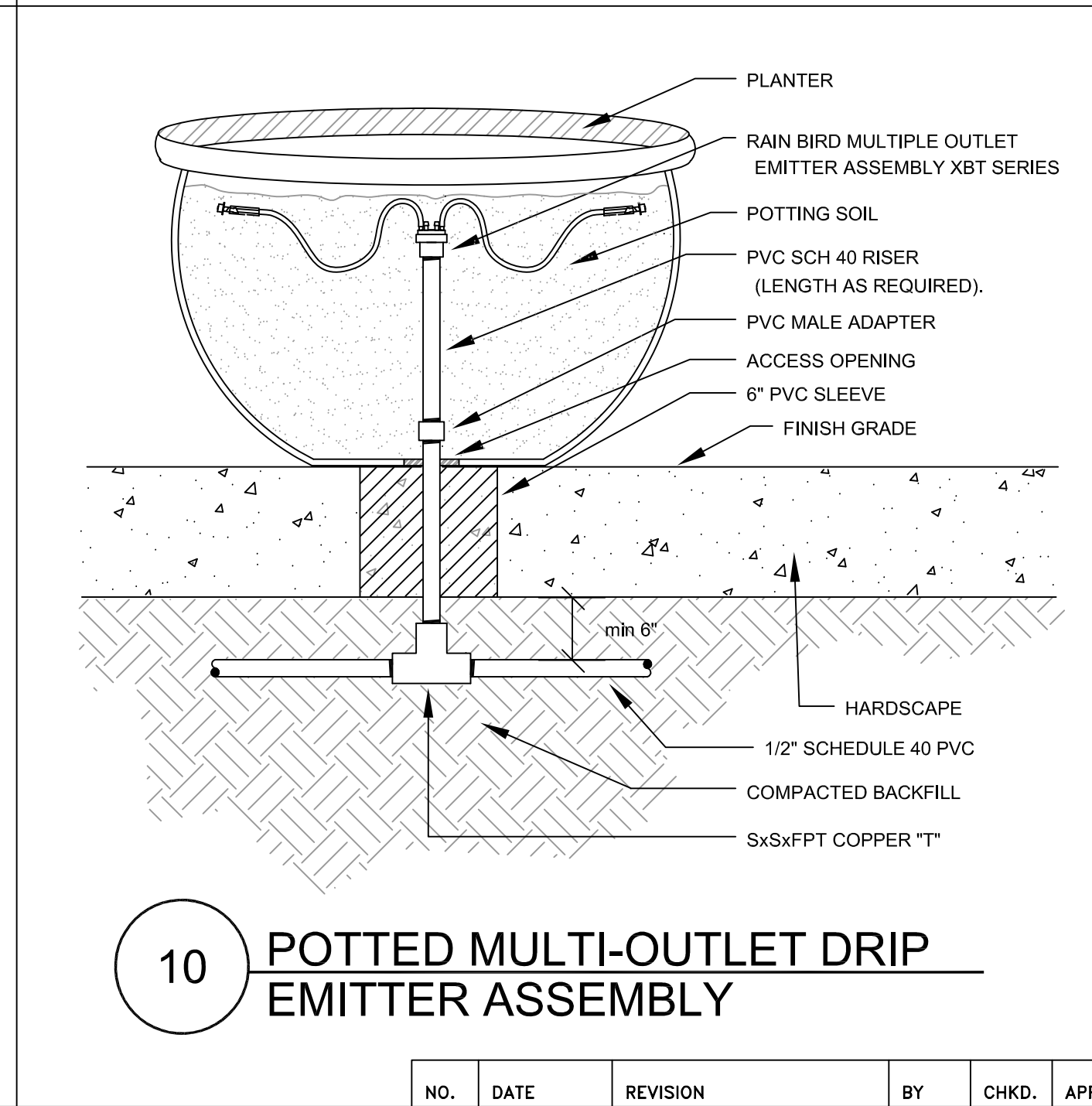
7 TYPICAL TRENCHING DETAIL



8 EMITTER LOCATION DETAIL - TREES



9 LATERAL END CAP ASSEMBLY



10 POTTED MULTI-OUTLET DRIP EMITTER ASSEMBLY

**P** PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
75% SUBMITTAL

IRRIGATION DETAILS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET - GRANADA AVE. TO 5TH AVE.

149 OF 184

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CITY OF TUCSON

DRWN. BY M. HALL  
DSGN. BY M. HALL  
CHKD. BY J. HINES

REF. CL-IRDT01 SCALE: NTS  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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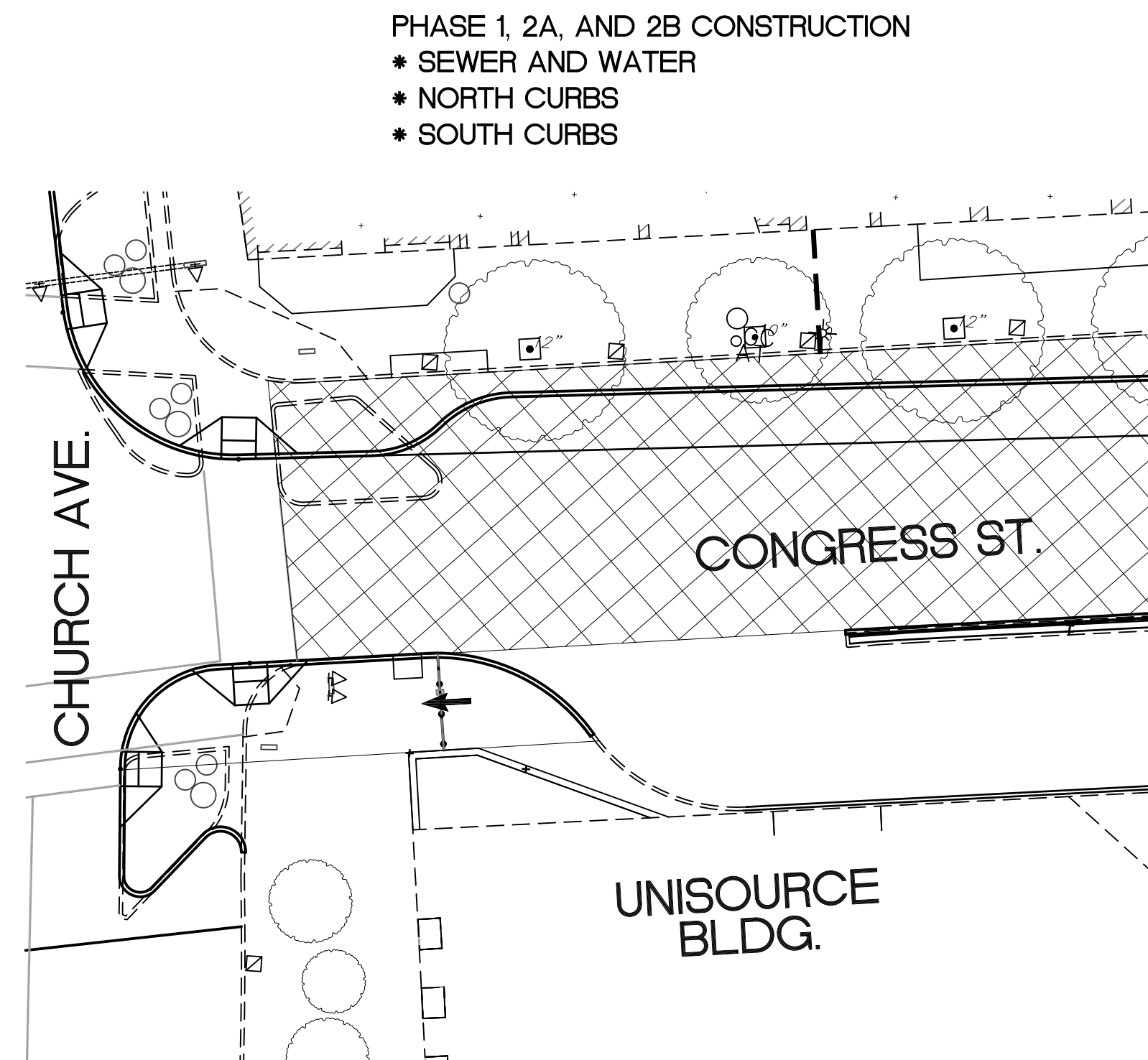
**GENERAL NOTES**

1. ARCHER-WESTERN (AW) SHALL PREPARE TRAFFIC CONTROL PLAN (TCP) IN ACCORDANCE WITH THE LATEST MUTCD, THESE PLANS, AND SUBMIT THEM TO CITY OF TUCSON FOR REVIEW AND APPROVAL.
2. TEMPORARY STRIPING AND SIGNING SHALL BE INSTALLED WHERE NEEDED TO ALLOW 2 DETOUR LANES ON 6TH AVE. AND ALAMEDA ST. THE STRIPING/SIGNING PLANS SHALL REQUIRE APPROVAL FROM THE CITY.
3. UNLESS APPROVED OTHERWISE BY THE CITY, AW SHALL MAINTAIN: (1) PEDESTRIAN ACCESS INTO BUSINESSES AT ALL TIME; (2) ALL UTILITY SERVICES AT ALL TIME; (3) EMERGENCY VEHICLE ACCESS AT ALL TIMES; (4) ACCESS TO EXISTING SEWER LINES AND MANHOLES IN ACCORDANCE WITH PCRWRD STANDARDS.
4. AW SHALL NOT SWITCH TRAFFIC CONTROL TO THE NEXT PHASE OF CONSTRUCTION DURING WORKING HOURS.
5. OPEN TRENCHES SHALL BE COVERED OR SHIELDED DURING NON-CONSTRUCTION HOURS.
6. AW SHALL NOTIFY APPROPRIATE WASTE DISPOSAL COMPANY OF ANY LIMITATION TO ACCESS FOR TRASH PICK-UP.
7. AW SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS, LEGENDS, AND SIGNS PRIOR TO CONSTRUCTION ACTIVITY.
8. ADVANCED TRAFFIC CONTROL DEVICES SHALL BE INSTALLED TO WARN DRIVERS OF ROAD CLOSURE AT THE CONGRESS/6TH INTERSECTION.
9. CONSTRUCTION SHALL NOT BE PERFORMED AT NIGHTS AND ON HOLIDAYS AND WEEKENDS UNLESS APPROVED BY THE CITY IN ADVANCE.
10. BUS ACCESS TO THE SUN TRAN STATION AT THE CONGRESS/CHURCH INTERSECTION SHALL BE MAINTAINED.
11. UNISOURCE PARKING EXIT TO CHURCH AVE. SHALL BE MAINTAINED AS MUCH AS POSSIBLE PER DETAIL 1. CLOSURE OF THE EXIT SHALL REQUIRE COORDINATION WITH AND APPROVAL FROM UNISOURCE.
12. ACCESS FOR THE OLD PUEBLO INDOOR PARKING GARAGE, SHALL BE MAINTAINED AS MUCH AS POSSIBLE PER DETAIL 2. COMPLETE CLOSURE SHALL REQUIRE COORDINATION WITH THE GARAGE.
13. ACCESS FOR PARKING GARAGES ON SCOTT AVE SHALL BE MAINTAINED AS MUCH AS POSSIBLE. COMPLETE CLOSURE SHALL BE APPROVED BY THE CITY IN ADVANCE.
14. ADVANCE SIGNING SHALL BE PROVIDED TO DIRECT MOTORISTS TO MAJOR DESTINATIONS.

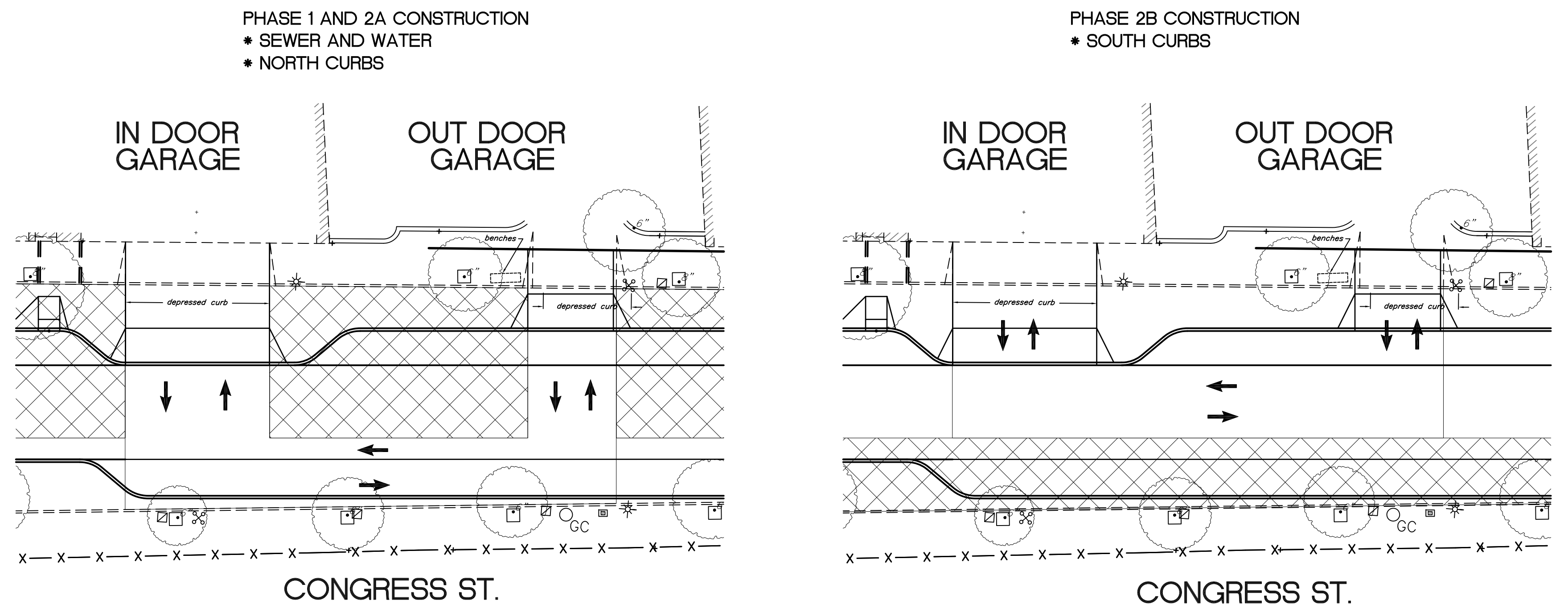
**SIDE STREET/DRIVEWAY CLOSURE**

1. DURATION OF COMPLETE CLOSURE SHALL BE MINIMIZED AS MUCH AS POSSIBLE.
2. AW SHALL PREPARE SPECIFIC TRAFFIC CONTROL PLAN FOR EACH CLOSURE AND SUBMIT IT TO CITY OF TUCSON FOR REVIEW AND APPROVAL.
3. AW SHALL NOTIFY CITY COMMUNICATIONS (520-791-4144) AND AFFECTED BUSINESSES A MINIMUM OF FIVE WORKING DAYS IN ADVANCE OF EACH CLOSURE.
4. TRAFFIC CONTROL PLAN SHALL PROVIDE DETOUR DETAILS FOR VEHICLE AND PEDESTRIAN TRAFFIC.
5. SIMULTANEOUS CLOSURES OF MULTIPLE SIDE STREETS AND DRIVEWAYS SHALL BE MINIMIZED AS MUCH AS POSSIBLE.
6. MAINTAIN SB ACCESS TO PENNINGTON ST PARKING GARAGE AND COUNTY PARKING GARAGE AS MUCH AS POSSIBLE. USE FLAGGER IF NECESSARY.

**DETAIL 1 UNISOURCE ACCESS**



**DETAIL 2 OLD PUEBLO PARKING GARAGE**

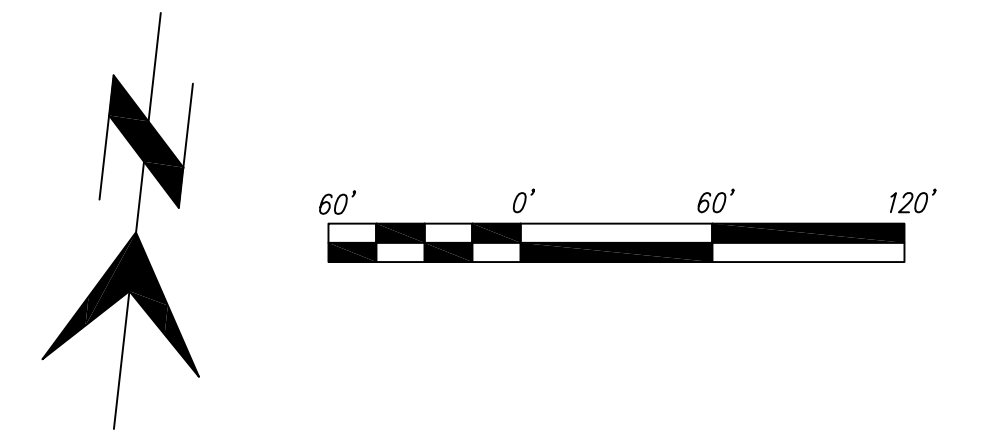


**MAINTENANCE OF TRAFFIC NOTES AND DETAILS**

<p><b>P</b> RELIMINARY                  03.10.09                  NOT FOR CONSTRUCTION                  100% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT                  CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>150                  OF                  184</p>
	<p>DRWN. BY T. RADDEMAN                  DSGN. BY T. RADDEMAN                  CHKD. BY K. NGUYEN</p>	<p>REF. CC-MTLP01 SCALE: N.T.S.</p>	<p>PLAN NO. I-2008-035</p>

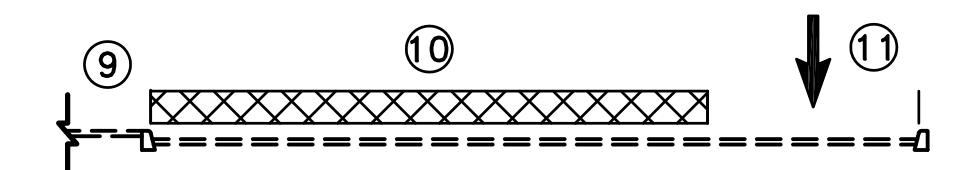
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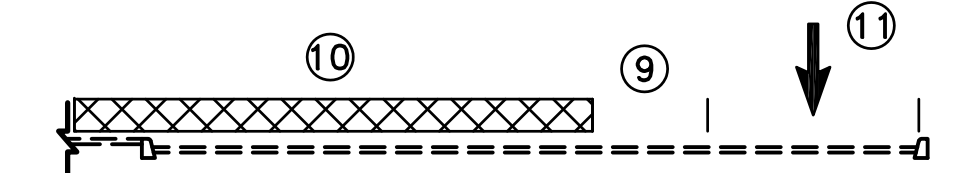


**SECTION A-A**

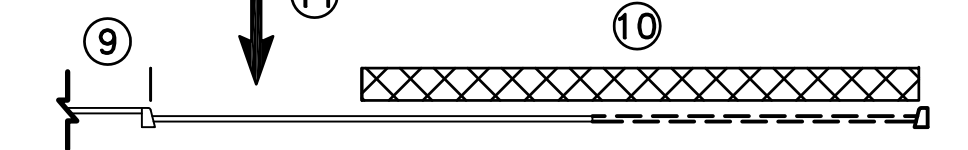
**PHASE 1 CONSTRUCTION**  
• WATER LINE



**PHASE 2A CONSTRUCTION**  
• NORTH CURBS



**PHASE 2A CONSTRUCTION**  
• MEDIAN CURBS  
• TRACKS



**LEGEND**

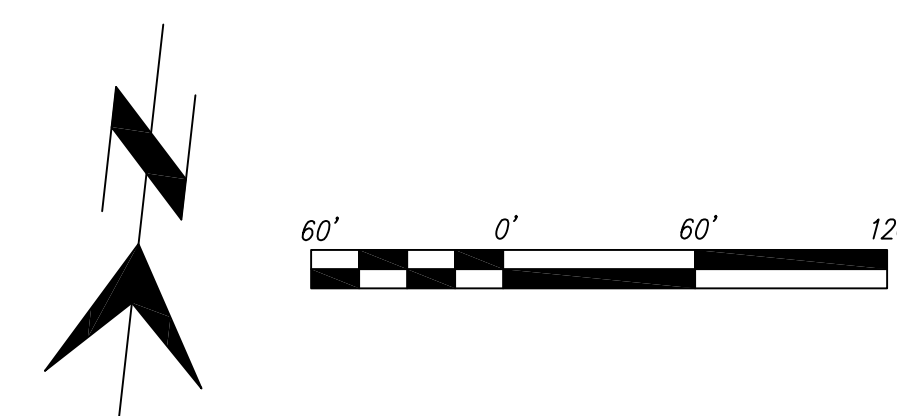
- CONSTRUCTION AREA
- ① PROVIDE 2 DETOUR LANES
- ② ACCESS FOR SUN TRAN ONLY
- ③ ACCESS FOR UNISOURCE PARKING GARAGE
- ④ ACCESS FOR OLD PUEBLO PARKING GARAGE
- ⑤ PROVIDE NB OPERATION
- ⑥ TEMPORARY LOADING AREA
- ⑦ MODIFY STRIPING TO PROVIDE 2 DETOUR LANES
- ⑧ TEMPORARILY REMOVE ON-STREET PARKING TO PROVIDE 2 DETOUR LANES
- ⑨ MAINTAIN PEDESTRIAN ACCESS
- ⑩ CONSTRUCTION AREA
- ⑪ EMERGENCY VEHICLE ACCESS ONLY

**MAINTENANCE OF TRAFFIC - CONGRESS ST**

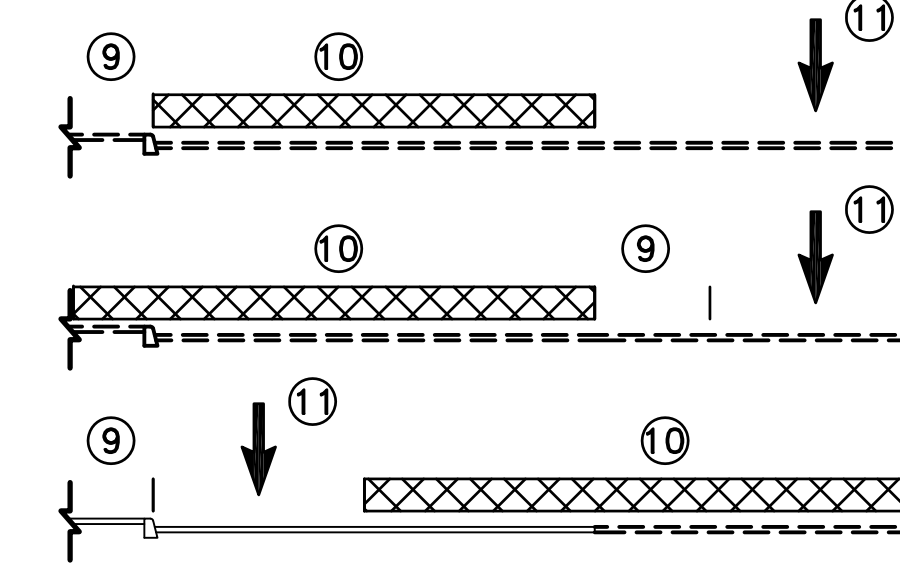
<p><b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL</p>	<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.</p>		<p>151 OF 184</p>
		<p>DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN</p>	<p>REF. CC-MTPL02 SCALE: 1"=60' PLAN NO. I-2008-035</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.

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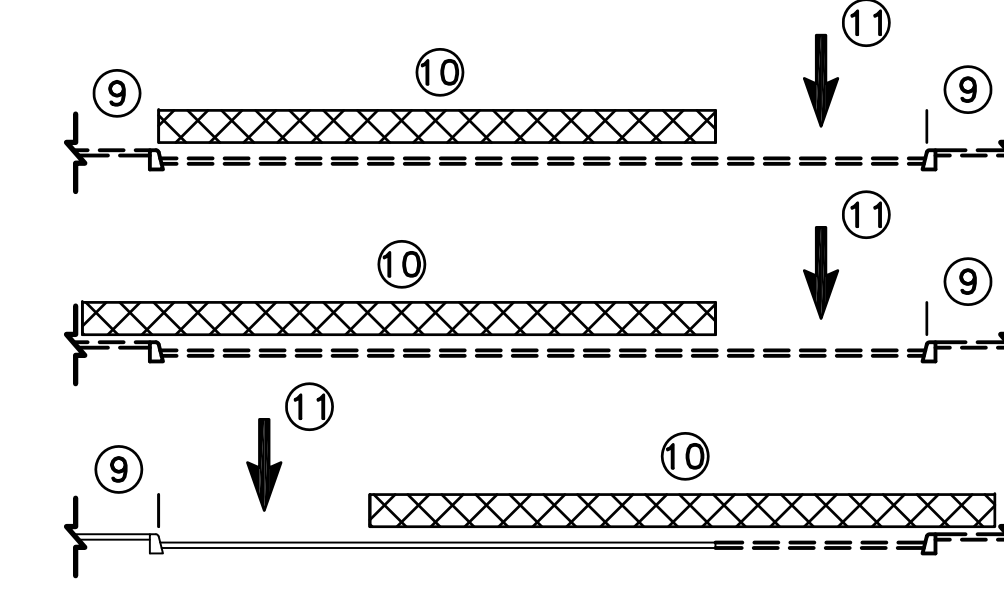


**SECTION A-A**



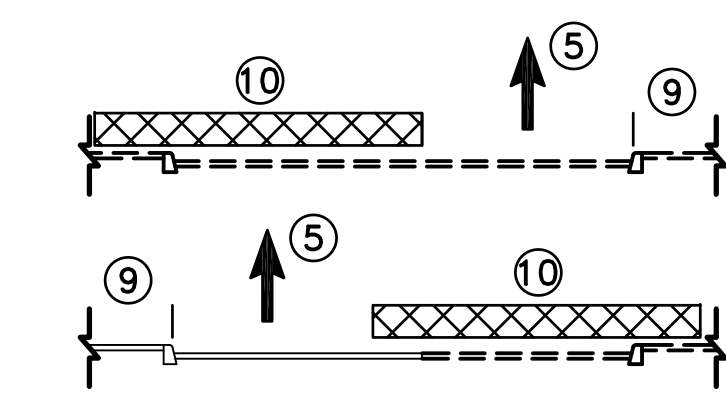
- PHASE 1 CONSTRUCTION
- SANITARY SEWER
- WATER LINE
- PHASE 2A CONSTRUCTION
- NORTH CURBS
- PHASE 2B CONSTRUCTION
- SOUTH CURBS
- TRACKS

**SECTION B-B**



- PHASE 1 CONSTRUCTION
- SANITARY SEWER
- WATER LINE
- PHASE 2A CONSTRUCTION
- NORTH CURBS
- PHASE 2B CONSTRUCTION
- SOUTH CURBS
- TRACKS

**SECTION C-C**



- PHASE 2A CONSTRUCTION
- WEST CURBS
- PHASE 2B CONSTRUCTION
- EAST CURBS

**LEGEND**

- CONSTRUCTION AREA
- ① PROVIDE 2 DETOUR LANES
- ② ACCESS FOR SUN TRAN ONLY
- ③ ACCESS FOR UNISOURCE PARKING GARAGE
- ④ ACCESS FOR OLD PUEBLO PARKING GARAGE
- ⑤ PROVIDE NB OPERATION
- ⑥ TEMPORARY LOADING AREA
- ⑦ MODIFY STRIPING TO PROVIDE 2 DETOUR LANES
- ⑧ TEMPORARILY REMOVE ON-STREET PARKING TO PROVIDE 2 DETOUR LANES
- ⑨ MAINTAIN PEDESTRIAN ACCESS
- ⑩ CONSTRUCTION AREA
- ⑪ EMERGENCY VEHICLE ACCESS ONLY

**MAINTENANCE OF TRAFFIC - CONGRESS ST**

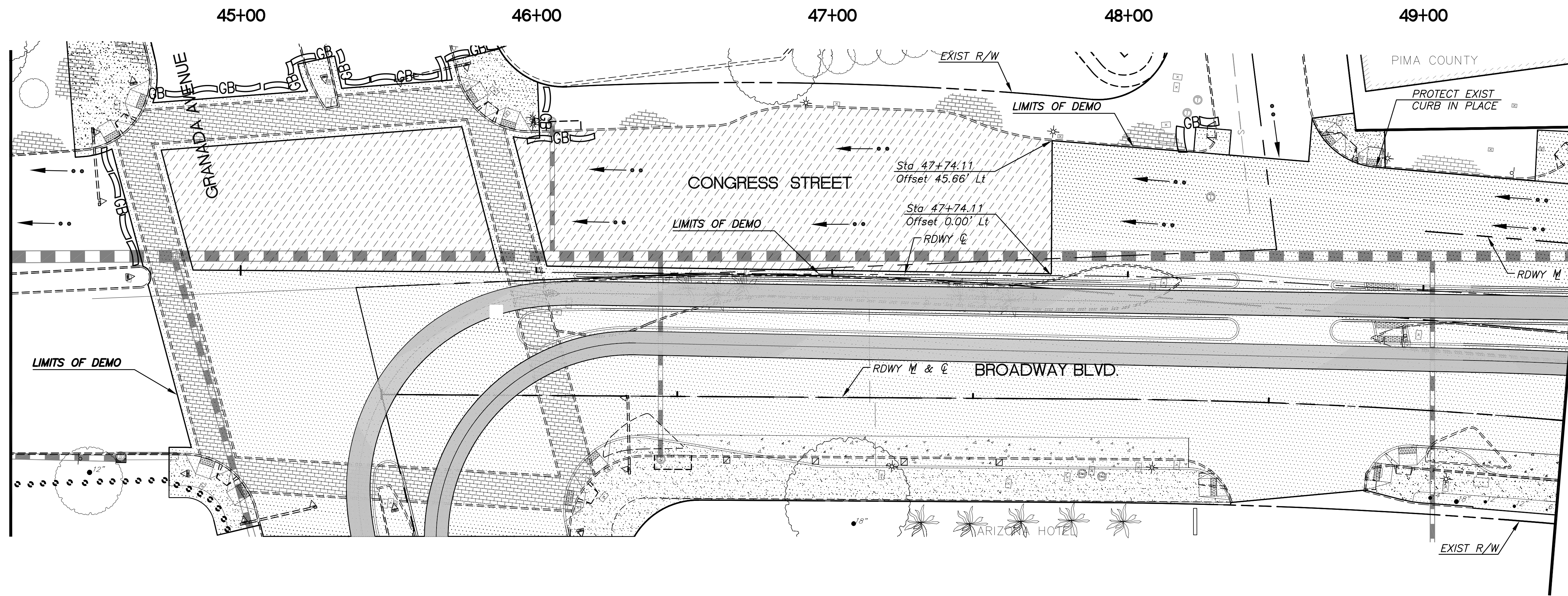
<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		152 OF 184
		DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. CC-MTPL03 SCALE: 1"=60' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

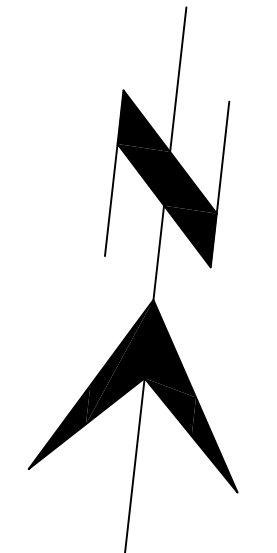
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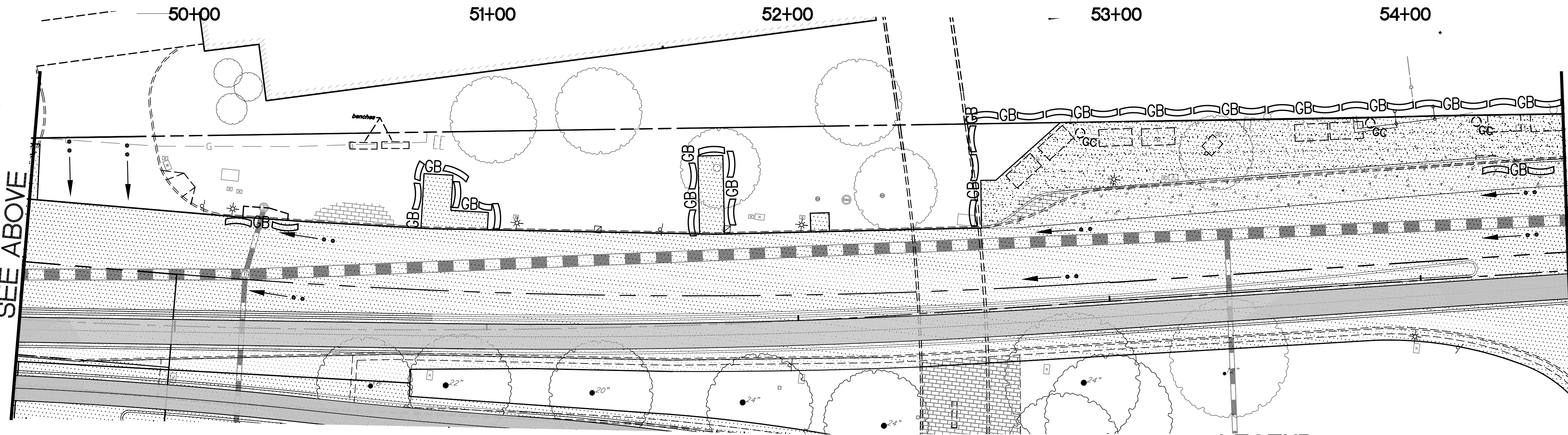
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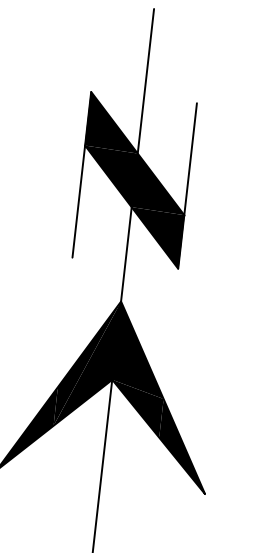
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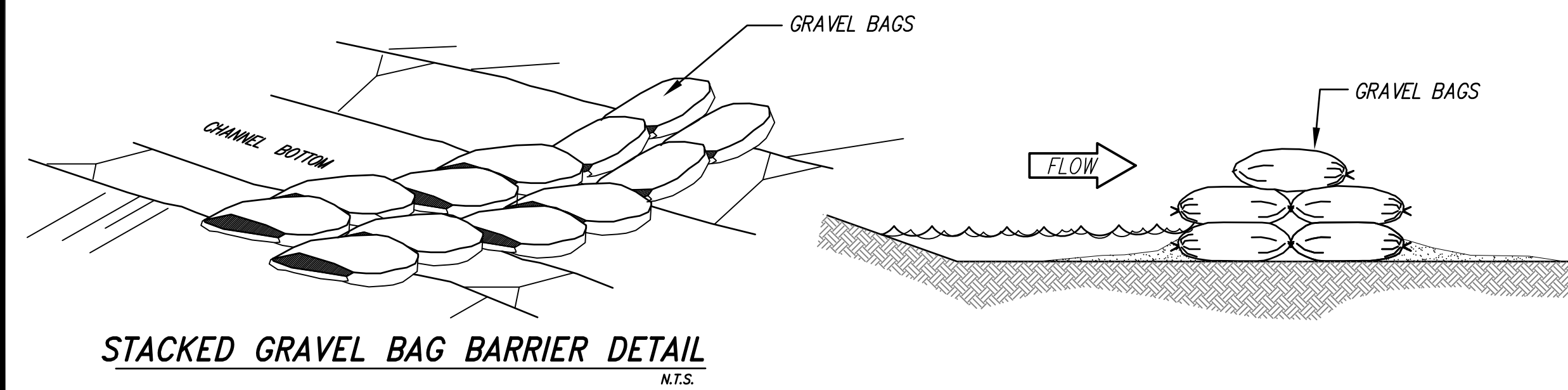
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MATCHLINE STA 54+50  
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 Moseke, Doug  
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STACKED GRAVEL BAG BARRIER DETAIL  
N.T.S.

TOTAL AREA TO BE DISTURBED = 5 ACRES

TEMPORARY STORM DRAIN INLET BARRIERS MUST BE PROVIDED AT THE INITIATION OF PROJECT. TEMPORARY SEDIMENT BARRIERS WILL BE MAINTAINED/MONITORED UNTIL THE CONTRIBUTING WATERSHED IS STABILIZED.

PRACTICES TYPICAL FOR STORMWATER POLLUTION CONTROL METHODS (DETAILS AND DEFINITIONS) ARE PROVIDED IN THE SWPPP, SECTION "STORMWATER POLLUTION CONTROL MEASURES".

THE SITE CONTRACTOR MUST PROVIDE ADDITIONAL OR ALTERNATIVE MEANS TO CONTROL SEDIMENT EROSION AND POLLUTION BASED ON FIELD CONDITIONS.

- LEGEND:**
- GB - GRAVEL BAG, TEMPORARY SEDIMENT BARRIER TO BE IN PLACE DURING CONSTRUCTION
  - DIRECTIONAL FLOW ARROW
  - IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO IMPLEMENT THE STORMWATER PLAN

SWPP

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 75% SUBMITTAL	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		153 OF 184
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. CC-SWPL01 SCALE: 1"=20' PLAN NO. I-2008-035	

NO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

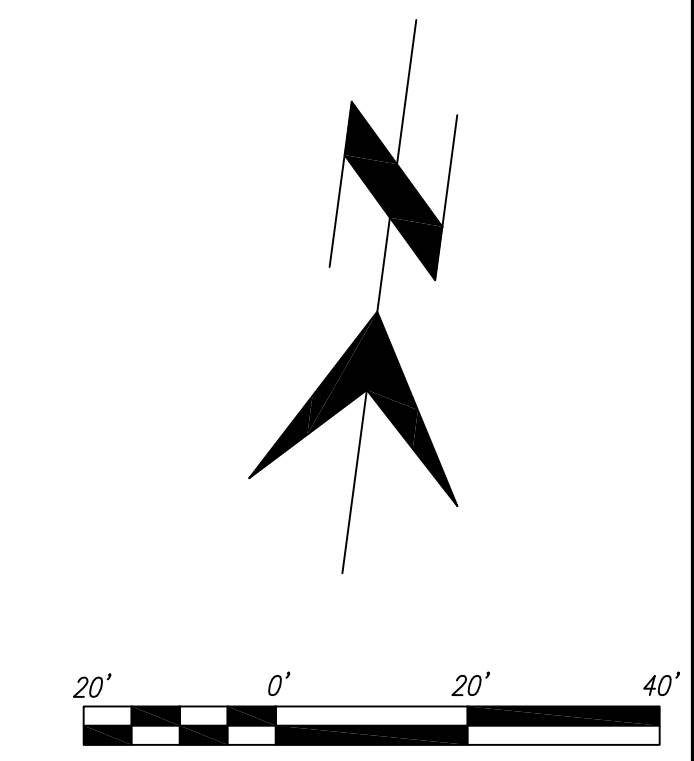
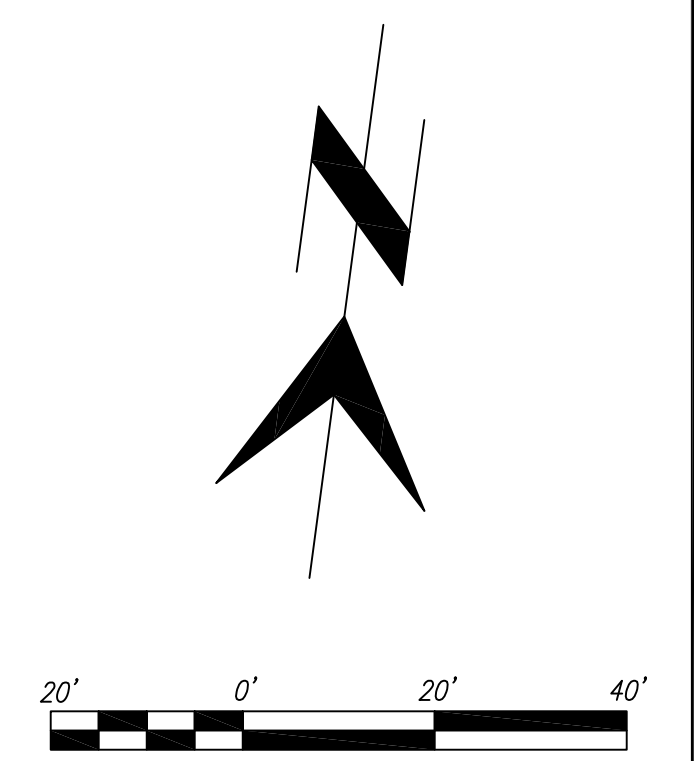
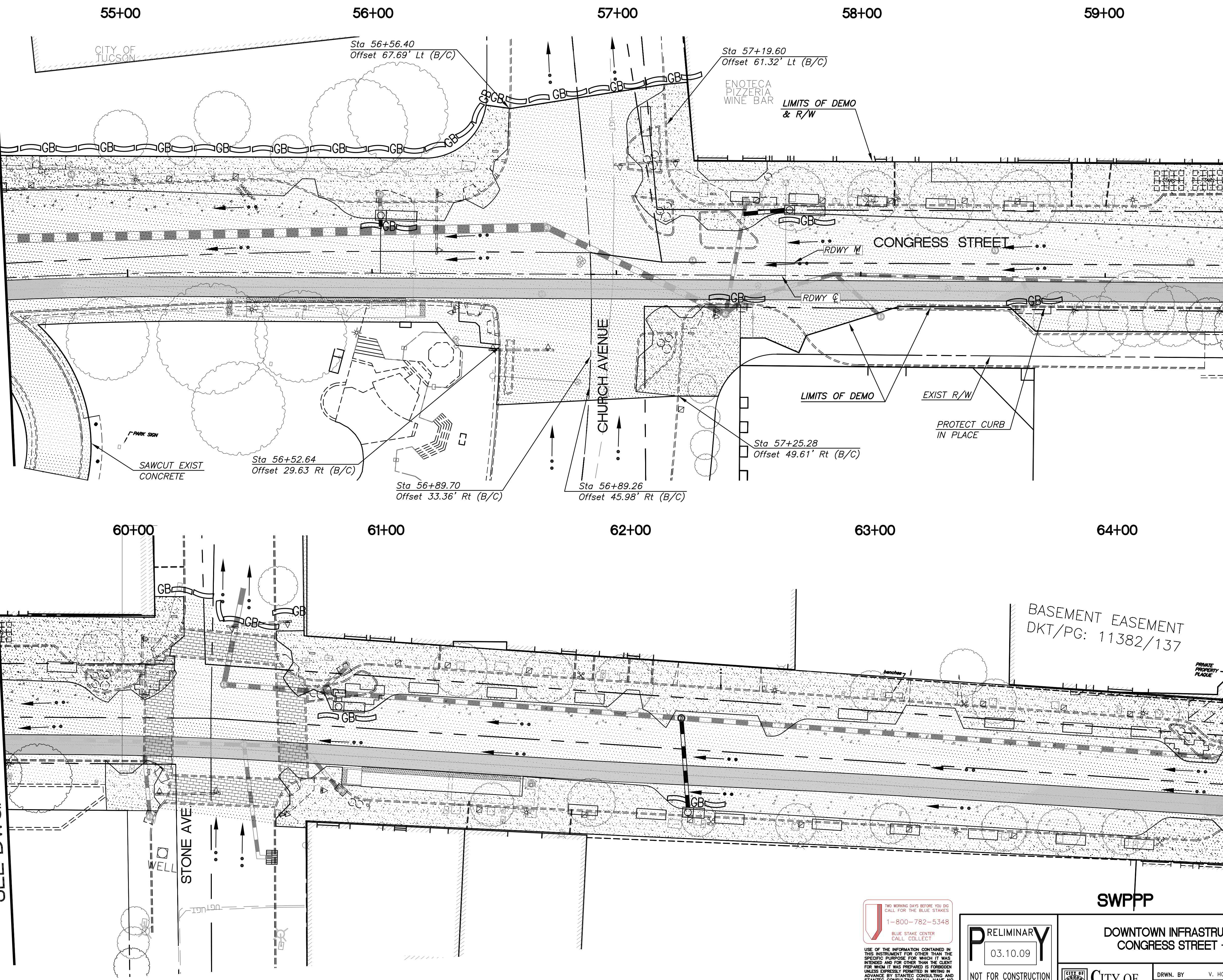
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SEE DWG. CC-SWPL01

MATCHLINE STA 59+50  
SEE DWG. CC-DPPL03

MATCHLINE STA 59+50  
SEE BELOW

MATCHLINE STA 64+50  
SEE DWG. CC-DPPL05



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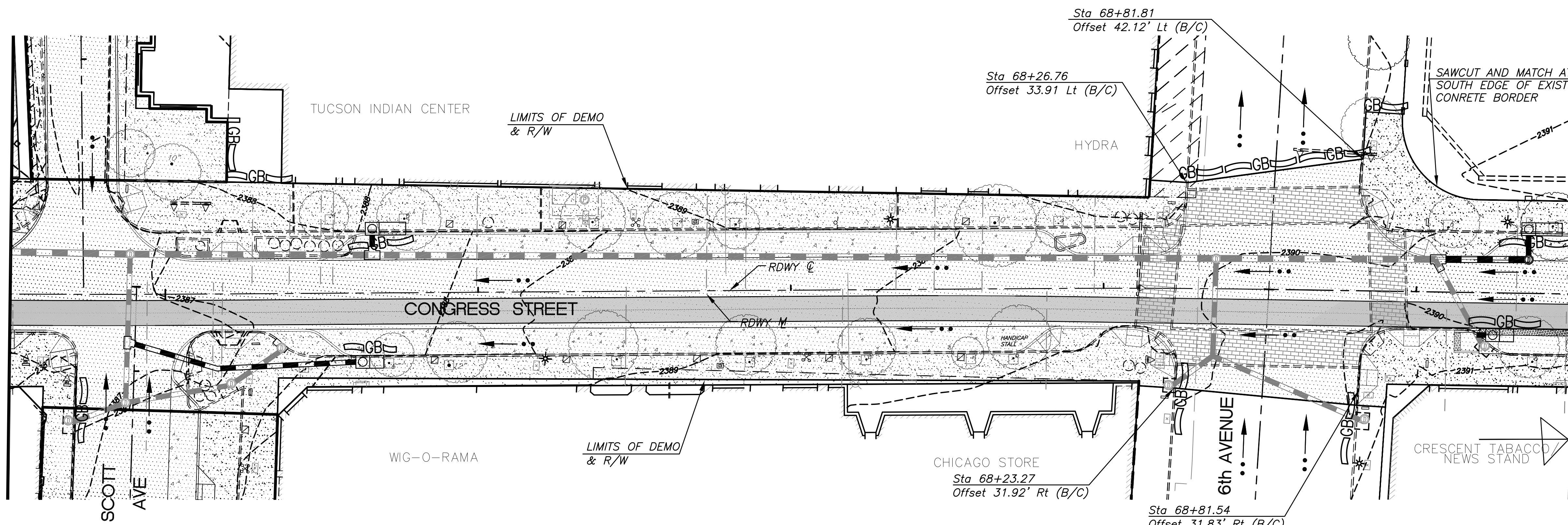
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 BLUE STAKE CENTER  
 CALL COLLECT

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 NOT FOR CONSTRUCTION  
 75% SUBMITTAL

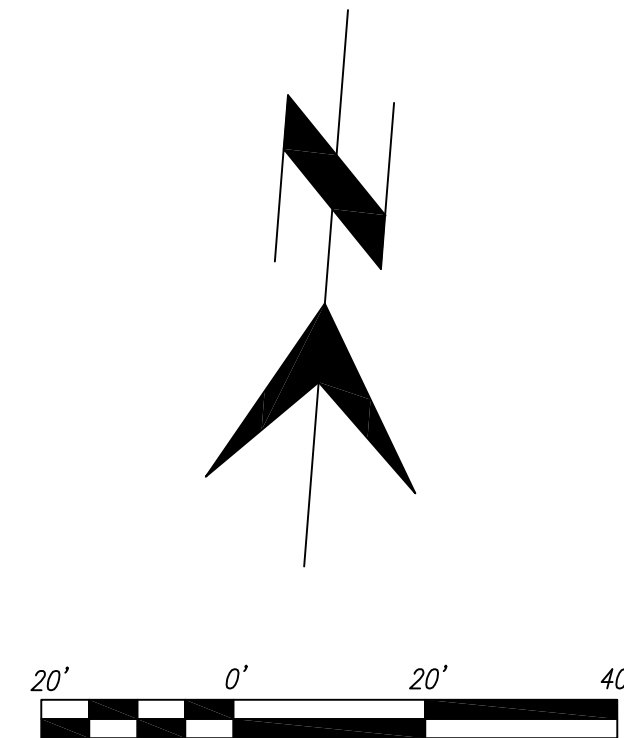
<b>CITY OF TUCSON</b>		DRWN. BY V. HO DSGN. BY D. MOSELEY, JD, HP CHKD. BY A. BATT	REF. CC-SWPL02 SCALE: 1"=20' PLAN NO. I-2008-035	154 OF 184
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NO.	DATE	REVISION	BY	CHKD.	APPR.

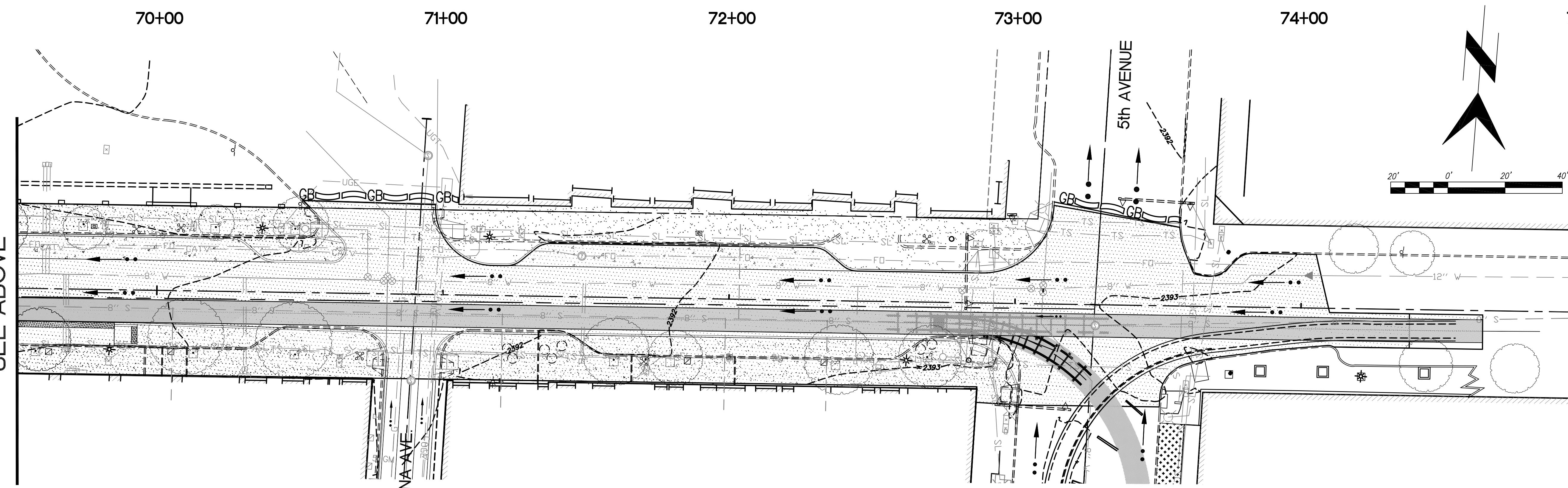
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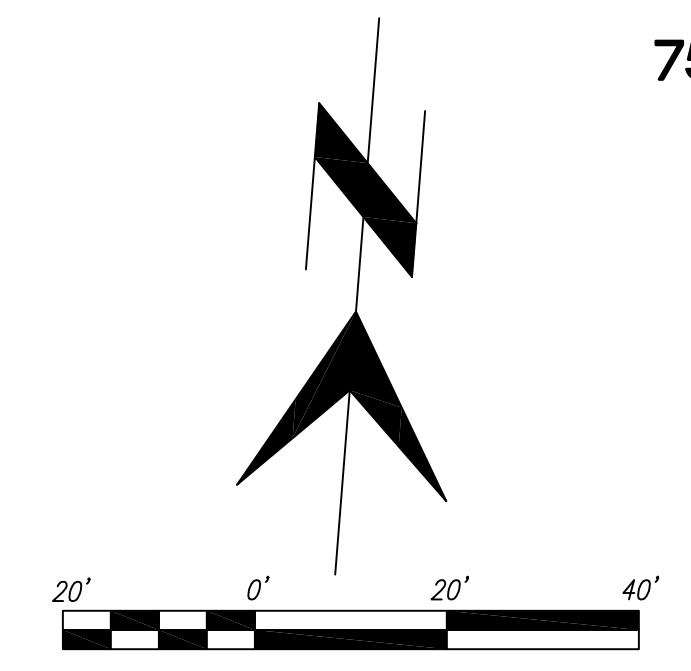
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STA 75+00 END CONGRESS  
STREET PROJECT



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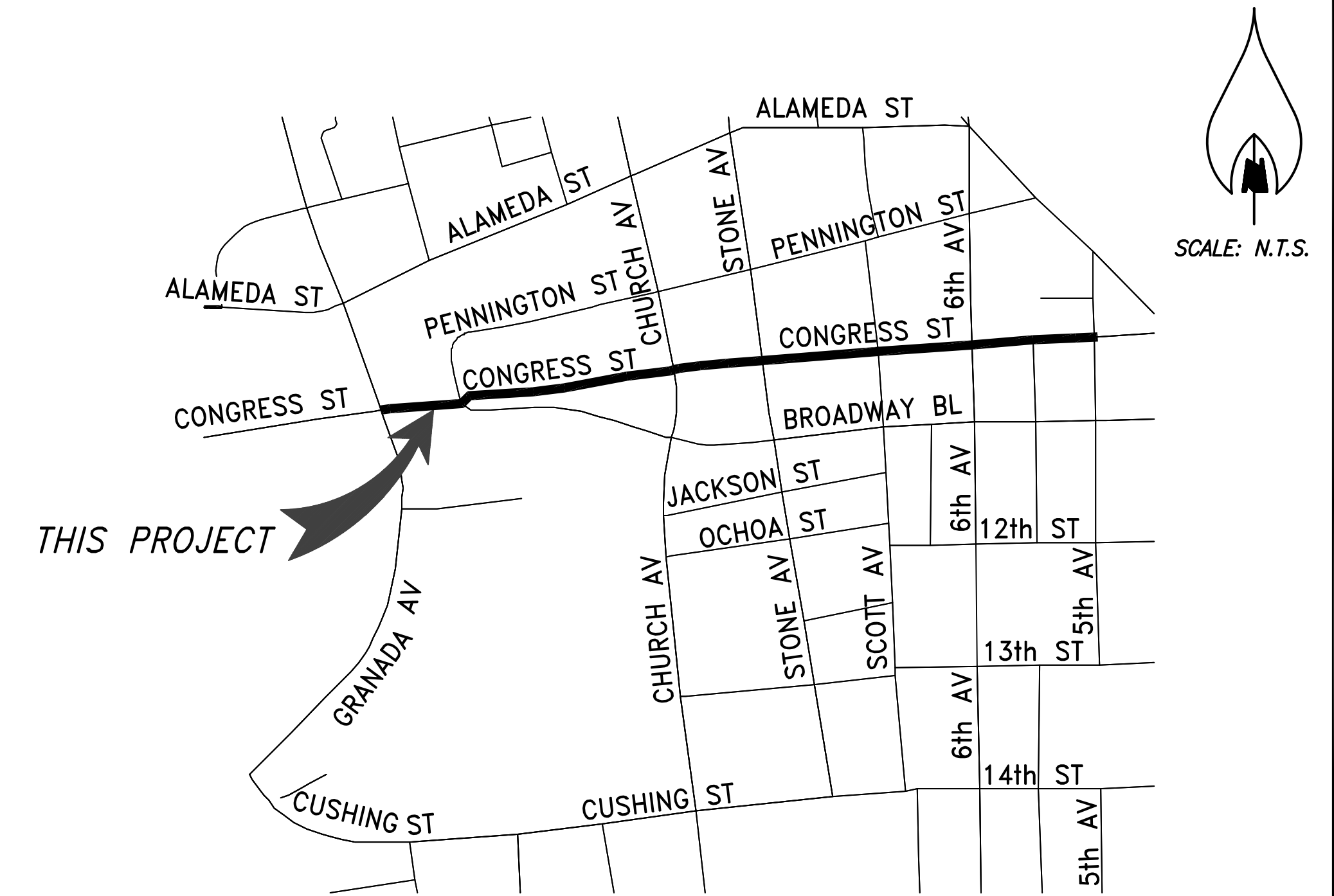
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 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL TO COLLECT  
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<b>SWPPP</b>		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET - GRANADA AVE. TO 5TH AVE.		155 OF 184
	DRWN. BY	V. HO	REF.	CC-SWPL03 SCALE: 1"=20'
	DSGN. BY	D. MOSELEY, JD, HP	PLAN NO.	I-2008-035
	CHKD. BY	A. BATT		

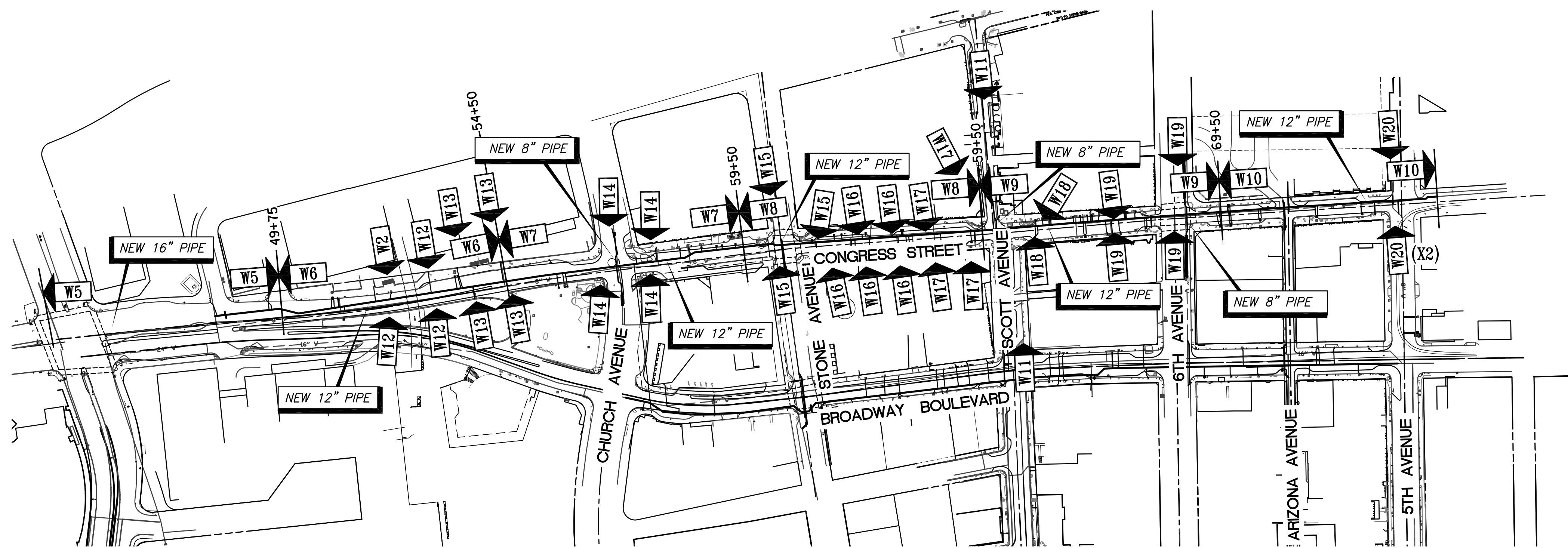
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# DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET GRANADA AVE. TO 5th AVE. WATER SYSTEM MODIFICATIONS

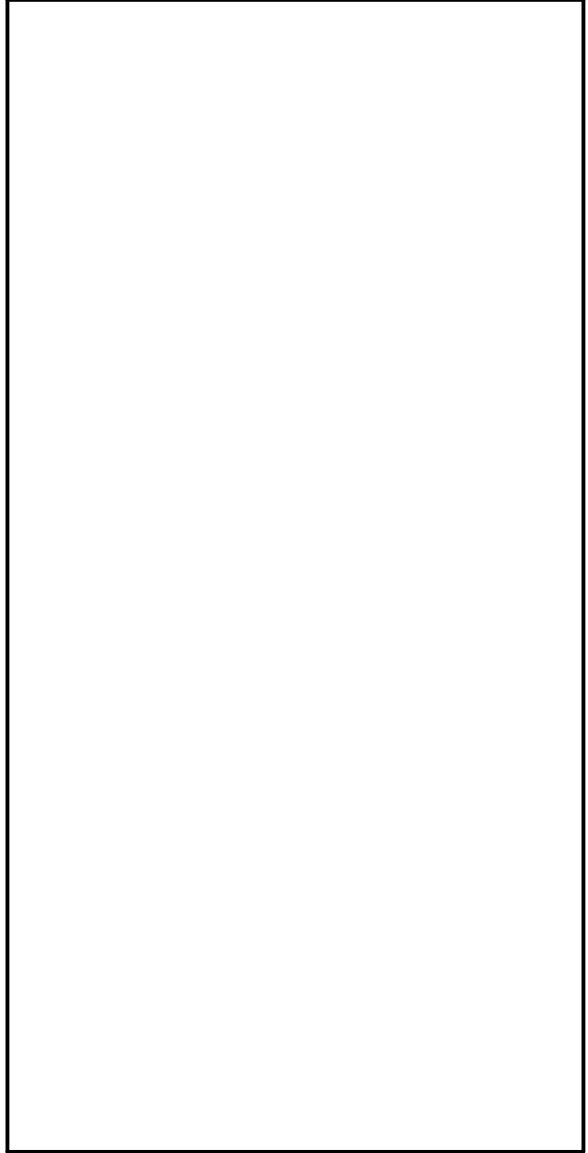


### LOCATION PLAN

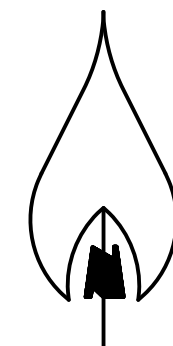
SEC. 12 & 13, T14S, R13E  
G. & S.R.M.  
CITY OF TUCSON PIMA COUNTY, ARIZONA  
LATITUDE 32°22'N, LONGITUDE 110°9'W



AS BUILT DATA



## SHEET INDEX PLAN



1" = 200'

FOR ACCEPTANCE CONDITIONS, SEE WATER SYSTEM MODIFICATION NOTES, NOTE 1, SHEET W2 OF W29

CITY OF TUCSON WATER DEPARTMENT

DATE

CITY OF TUCSON FIRE DEPARTMENT

DATE

## CONTENTS

PAGE	SHEET	DESCRIPTION
156	W1	COVER SHEET
157	W2	GENERAL NOTES, LEGEND, ABBREVIATIONS
158-159	W3-W4	MATERIAL QUANTITIES SUMMARY
160-175	W5-W20	PLAN & PROFILE
176-177	W21-W22	SERVICE TABLES & DETAILS
178-184	W23-W29	CORROSION PROTECTION PLANS

## WATER PLANS

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.	W1 OF W29 156 OF 184
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT
REF. CU-WTGN01 SCALE: 1"=200'		PLAN NO. I-2008-035

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 SYSTEM 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) CALENDAR DAYS PRIOR TO ANY WATER WORK. THE CONTRACTOR SHALL REFER TO THE CITY OF TUCSON WATER DEPARTMENT PLAN NO. 4-004-2009.
  - 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. **SHUT-DOWN OF DISTRIBUTION MAINS:**

SHUT-DOWN OF THE EXISTING WATER SYSTEM REQUIRING THE OPERATION OF TUCSON WATER VALVES SHALL BE CO-ORDINATED 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 HUNDREDTHS FEET (3.67') DEEP FROM THE FINISHED GRADE TO THE TOP OF THE NEW PIPE.
  - C. THESE MINIMUMS SHALL BE APPLY TO ALL WATER MAINS 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 NEW SERVICE LINE. 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 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:**

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. PROTECTION 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 THEIR HANDLING.
  - C. 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.
9. **FIRE PROTECTION SHUT DOWN:**

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. 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:**

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 AFFECTED 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 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 CUSTOMERS AT NO ADDITIONAL COST.

11. **SPECIAL USE WATER PERMITS:**

PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL APPLY FOR TWO (2) SPECIAL WATER USE PERMITS FROM THE CITY OF TUCSON WATER DEPARTMENT COMMERCIAL SECTION.

  - A. CONSTRUCTION WATER SPECIAL PERMIT:

THERE WILL BE NO CHARGE FOR THIS PERMIT, BUT THE CONTRACTOR MUST PAY THE SUM OF \$49.65 PLUS TAX AS THE ESTIMATED COST OF THE WATER TO BE USED. THIS WATER MAY ONLY BE 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:**

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:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL NEW AND EXISTING WATER VALVE BOXES TO THE FINISHED GRADE PER W-300. ALL VALVE BOXES SHALL BE ACCESSIBLE AND MARKED DURING CONSTRUCTION.
14. **JOINT RESTRAINT:**

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 AND/OR EBBA IRON CALCULATIONS APPROVED BY TUCSON WATER. WITH THE WRITTEN APPROVAL OF TUCSON WATER, 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:**

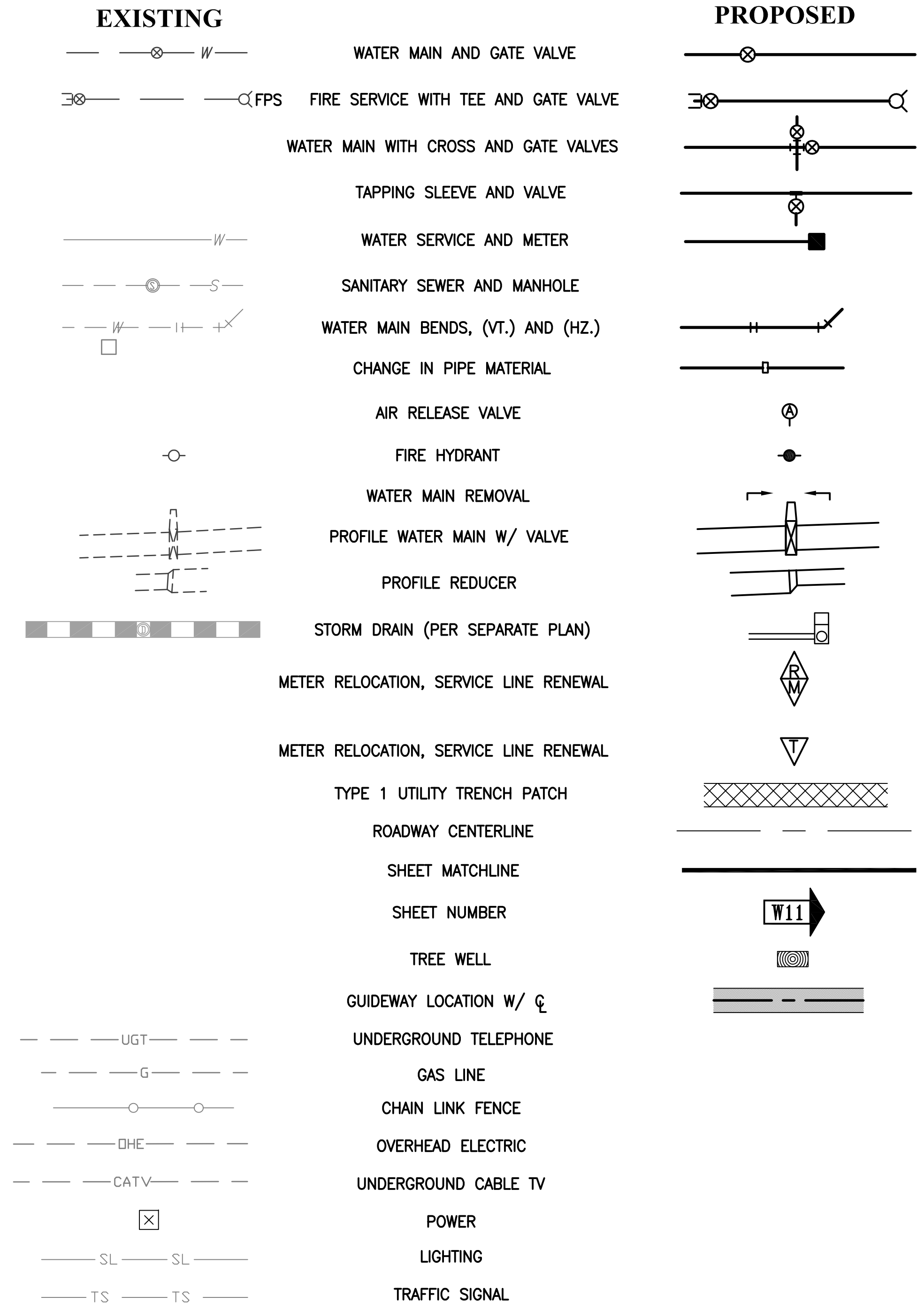
IF ANY EXISTING DETECTABLE MARKING TAPE IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE NEW TAPE. THERE SHALL BE NO ADDITIONAL CHARGE FOR THIS REINSTALLATION.
16. **TRACER WIRE:**

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.
17. **P.V.C. PIPE DEFLECTION:**

THE CONTRACTOR MAY NOT DEFLECT P.V.C. PIPE AT GASKETED BELL AND SPIGOT JOINTS. THE CONTRACTOR MAY USE THE FOLLOWING METHODS TO DEFLECT P.V.C. PIPE:

  - A. STANDARD DUCTILE IRON BENDS OR FITTINGS. P.V.C. PIPE MAY BE DEFLECTED AT BENDS OR FITTINGS PROVIDED THE DEFLECTION IS WITHIN THE MANUFACTURER'S ALLOWABLE DEFLECTION FOR THAT BEND OR FITTING.
  - B. LONGITUDINAL BENDING. P.V.C. PIPE MAY BE BENT WITHIN THE BENDING LIMITS DESCRIBED IN AWWA PUBLICATION, M23 P.V.C. PIPE - DESIGN AND INSTALLATION MANUAL.
  - C. SPECIFICALLY DESIGNED P.V.C. PIPE INTENDED FOR JOINT DEFLECTION AT GASKETED JOINTS. THE USE OF THIS PIPE FOR JOINT DEFLECTION SHALL REQUIRE APPROVAL BY THE CITY OF TUCSON WATER DEPARTMENT AND THE PROJECT ENGINEER.

**WATER SYSTEM MODIFICATION LEGEND**



P-11 1000 SHI St. Summit, AZ  
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 Mikes, Doug

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CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W2 OF W29	157 OF 184
DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTG02 SCALE:	PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.




### MATERIAL QUANTITIES SUMMARY

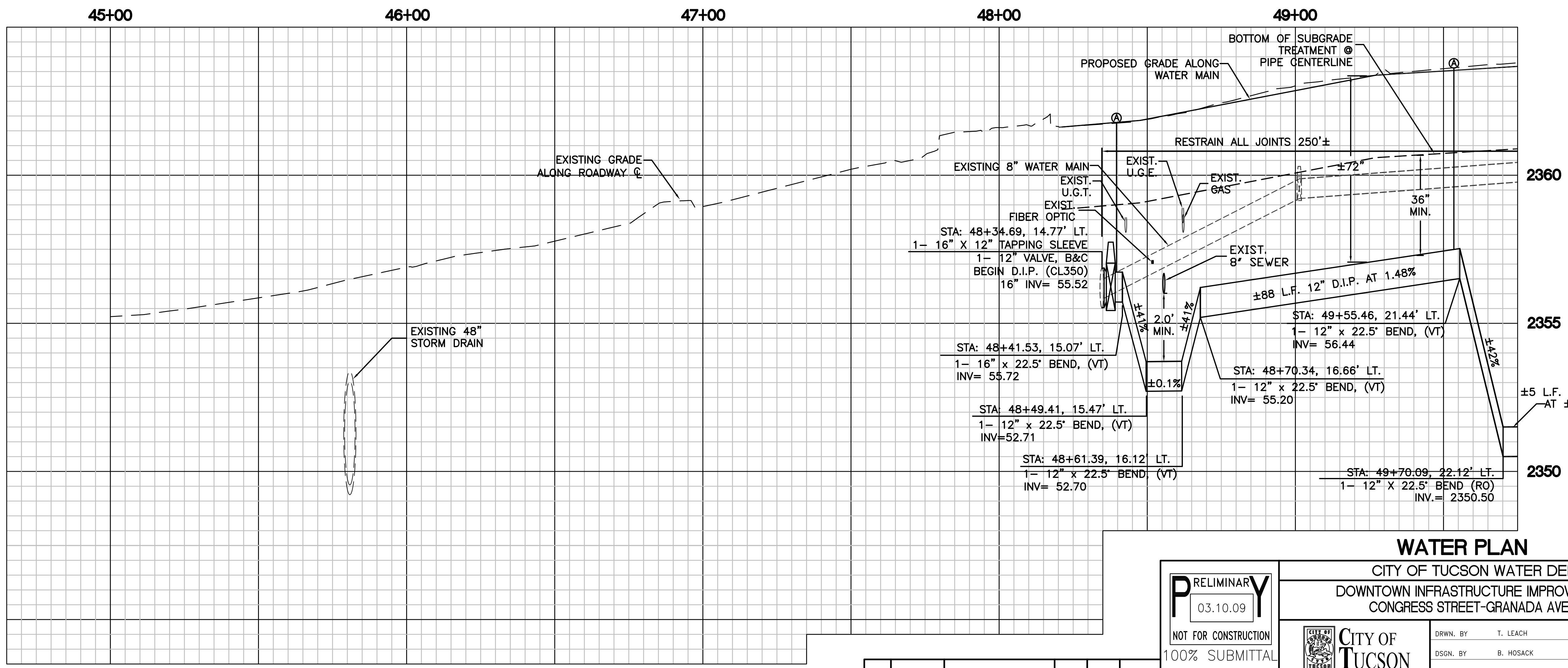
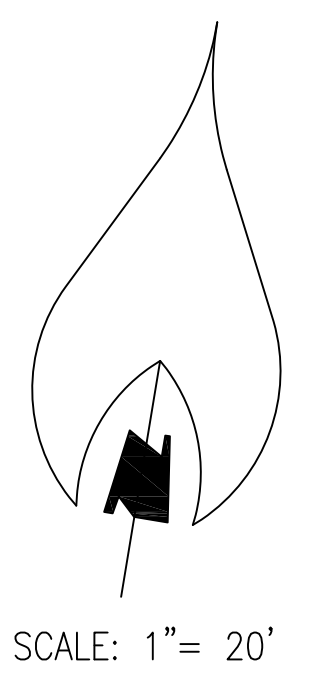
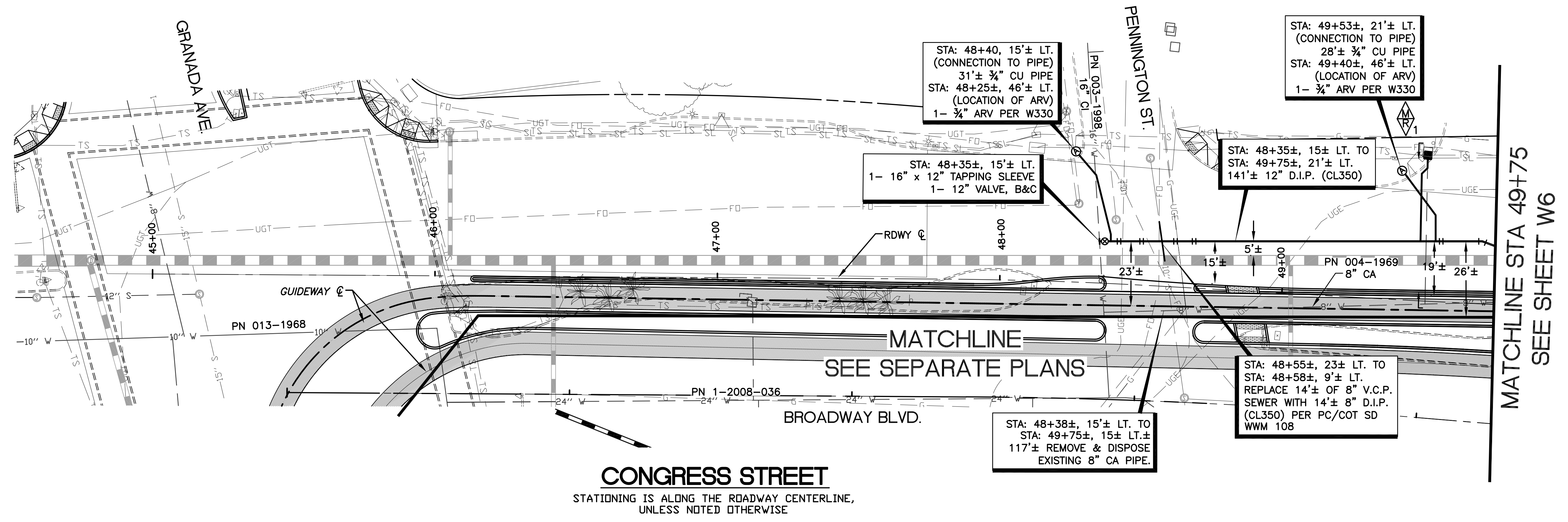
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			EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT
5107005	CORROSION REPORT	LS	---	---	---	---	---	---	---	---
5107110	CORROSION TEST STATION	EA	---	---	---	---	---	---	---	---
5107216	SACRIFICIAL ANODES, 16 LB	EA	---	---	---	---	---	---	---	---
5107232	SACRIFICIAL ANODES, 32 LB	EA	---	---	---	---	---	---	---	---
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5107606	FLANGE INSULATING KIT (FIK), 6"	EA	---	---	---	---	---	---	---	---
5107608	FLANGE INSULATING KIT (FIK), 8"	EA	---	---	---	---	---	---	---	---
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### WATER PLANS

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	 CITY OF <b>TUCSON</b>	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTGN04 SCALE: _____ PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.



NOTE: SEE SHEET W22 OF W29 (177 OF 184) FOR SERVICE WORK TABLE.

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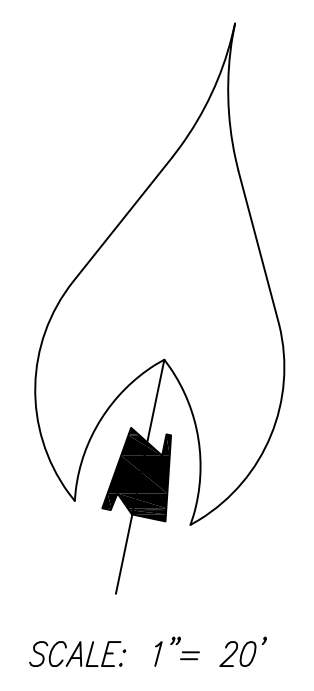
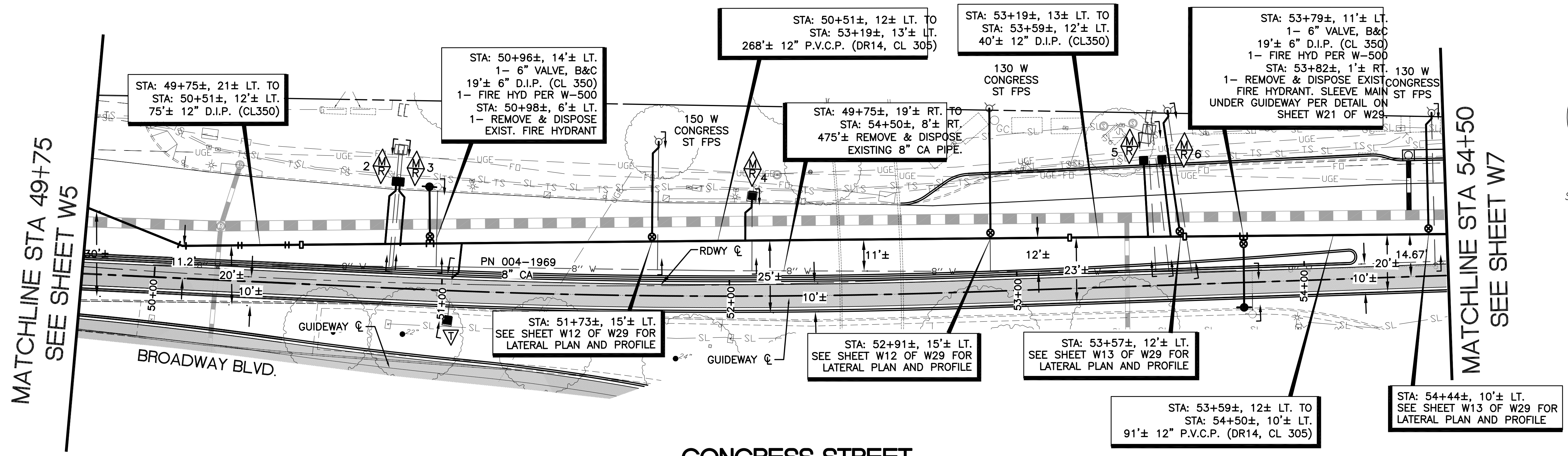
USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USER OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**WATER PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W5 OF W29 OF 184
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTPR01 SCALE: 1"=20' PLAN NO. I-2008-035

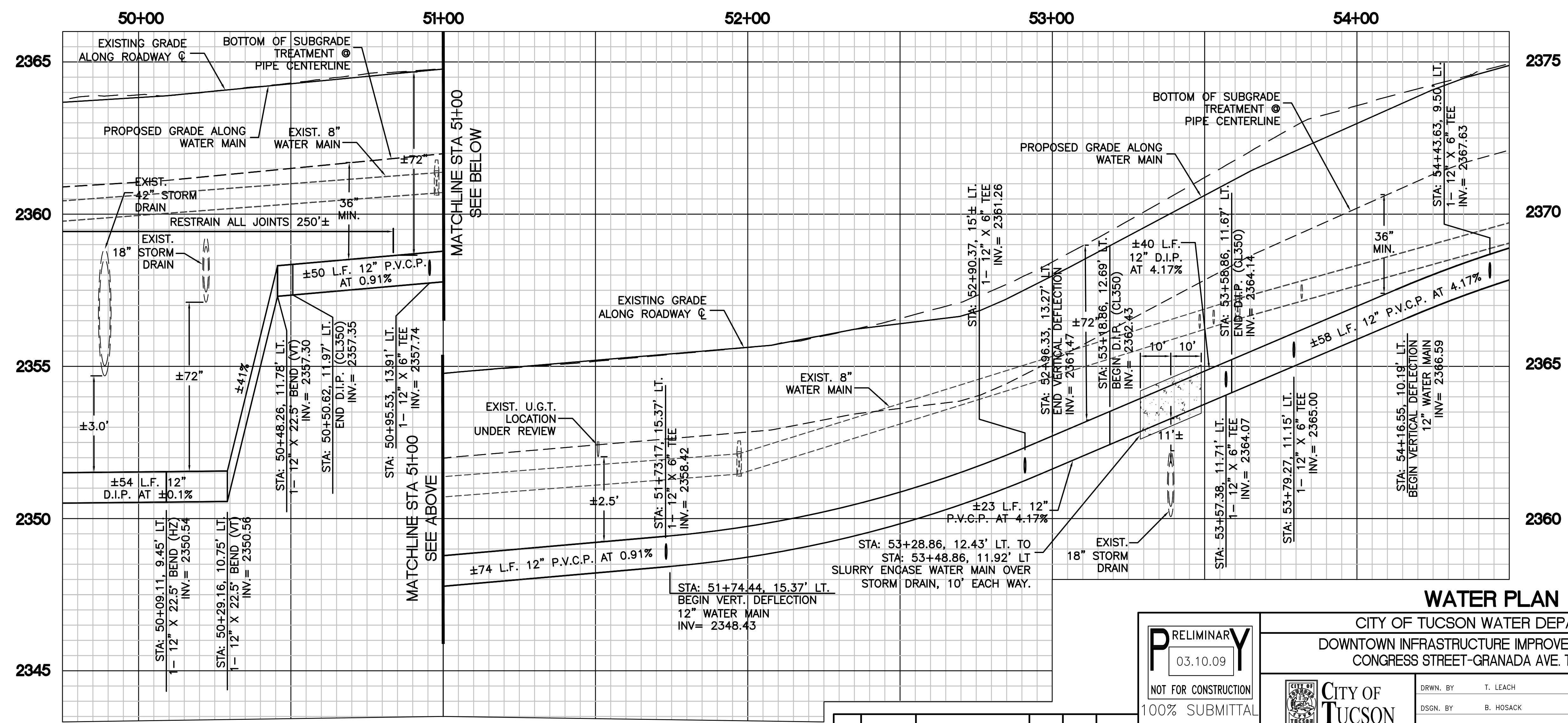
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 Shanley, Doug





**CONGRESS STREET**

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



NOTE: SEE SHEET W22 OF W29 (177 OF 184) FOR SERVICE WORK TABLE.



USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THE INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**WATER PLAN**

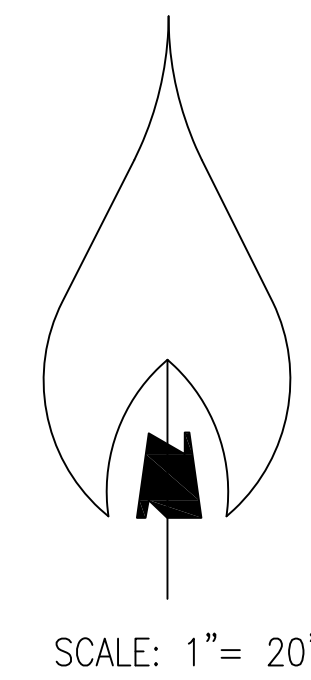
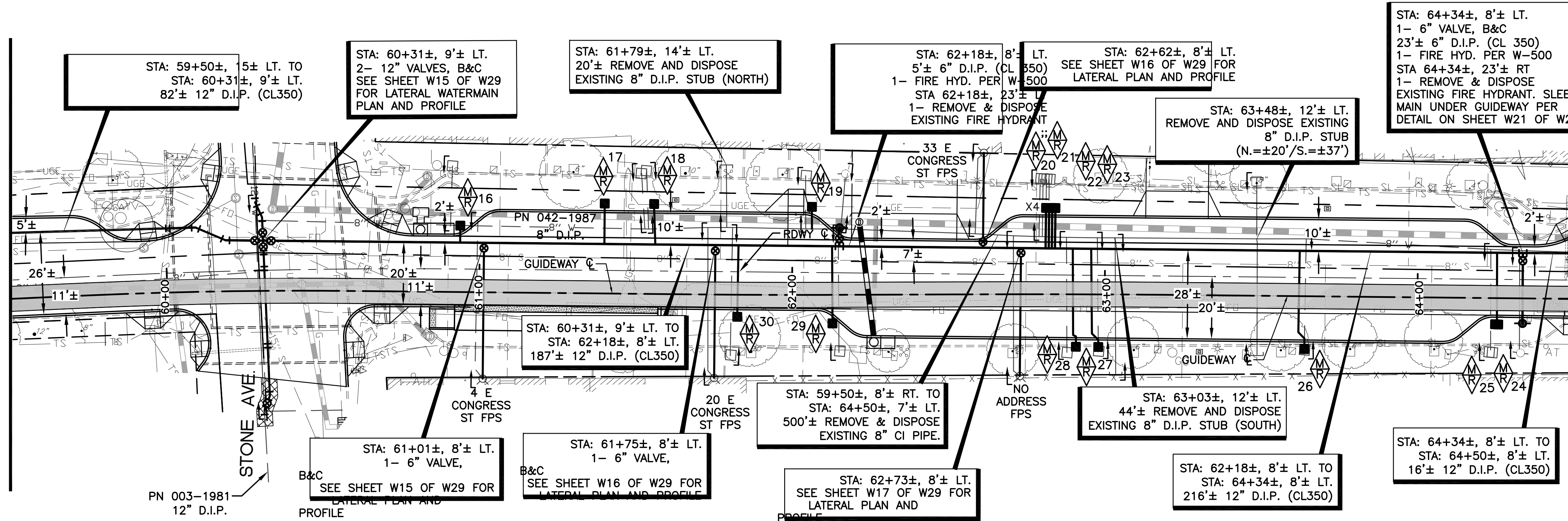
<p><b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL</p>	<p>CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.</p>		<p>W6 161 OF W29 184</p>
	<p>DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT</p>	<p>REF. CU-WTPR02 SCALE: 1"=20' PLAN NO. I-2008-035</p>	<p>CITY OF TUCSON</p>

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 Mikes, Dong



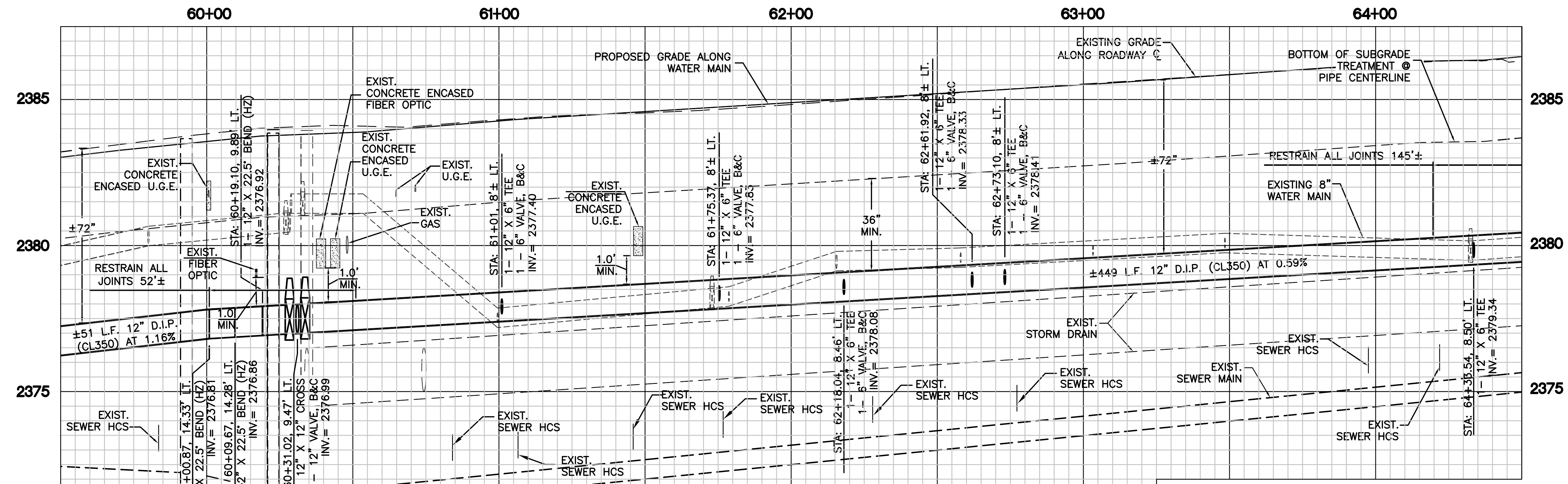
MATCHLINE STA 59+50  
SEE SHEET W7

MATCHLINE STA 64+50  
SEE SHEET W9



**CONGRESS STREET**

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



NOTE: SEE SHEET W22 OF W29 (177 OF 184) FOR SERVICE WORK TABLE.

NO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STATISTICAL CONSULTING AND STATISTICAL CONSULTING SHALL HAVE NO LIABILITY TO ANY USER OF THE INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**WATER PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W8 OF W29	163 OF 184
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTPR04 SCALE: 1"=20' PLAN NO. I-2008-035	

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 Mikes, Doug

MATCHLINE  
SEE SHEET W11

STA: 64+56±, 9'± LT.  
1- ¾" ARV PER W330  
STA: 64+54±, 21'± LT.  
(LOCATION OF ARV)

STA: 64+80±, 9'± LT.  
SEE SHEET W17 OF W29  
FOR LATERAL WATERMAIN  
PLAN AND PROFILE

STA: 66+46±, 7'± LT.  
REMOVE AND DISPOSE  
EXISTING 8" D.I.P.

STA: 66+63±, 8'± LT.  
1- 6" VALVE, B&C  
14'± 6" D.I.P. (CL 350)  
1- FIRE HYD. PER W-500  
STA 66+63±, 22'± LT.  
1- REMOVE & DISPOSE  
EXISTING FIRE HYDRANT

STA: 67+20±, 7'± LT.  
SEE SHEET W19 OF W29 FOR  
LATERAL PLAN AND PROFILE

STA: 68+03±, 7'± LT.  
1- 6" VALVE, B&C  
21'± 6" D.I.P. (CL 350)  
1- FIRE HYD. PER W-500  
STA 68+03±, 14'± RT.  
1- REMOVE & DISPOSE  
EXISTING FIRE HYDRANT. SLEEVE MAIN  
UNDER GUIDEWAY PER DETAIL ON  
SHEET W21 OF W29.

STA: 68+78±, 7'± LT.  
2- 12" VALVES, B&C  
SEE SHEET W19 OF W29  
FOR LATERAL WATERMAIN  
PLAN AND PROFILE

STA: 69+48±, 5'± LT.  
25'± REMOVE AND DISPOSE  
EXISTING 8" D.I.P. STUB (NORTH)

MATCHLINE  
STA 64+50  
SEE SHEET W8

STA: 64+50±, 9'± LT. TO  
STA: 64+80±, 9'± LT.  
30'± 12" D.I.P. (CL350)

STA: 64+73±, 4'± LT. TO  
STA: 64+87±, 4'± LT.  
REPLACE 14' OF 8" P.V.C.P.  
SEWER WITH 8" D.I.P. (CL350)  
PER PC/COT SD WMM 108

STA: 65+94±, 8'± LT.  
OF  
W29 FOR LATERAL  
PLAN AND PROFILE

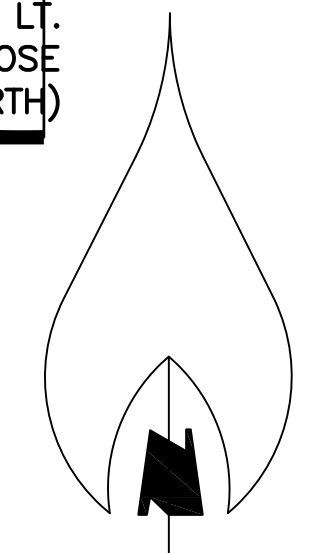
STA: 64+80±, 9'± LT. TO  
STA: 66+43±, 8'± LT.  
163'± 12" D.I.P. (CL350)

STA: 66+77±, 8'± LT.  
SEE SHEET W18 OF W29 FOR  
LATERAL PLAN AND PROFILE

STA: 68+16±, 7'± LT. TO  
STA: 69+28±, 8'± LT.  
112'± 12" D.I.P. PIPE (CL350)

STA: 69+28±, 8'± LT. TO  
STA: 69+50±, 8'± LT.  
22'± 12" P.V.C.P. (DR14, CL 305)

MATCHLINE STA 69+50  
SEE SHEET W10

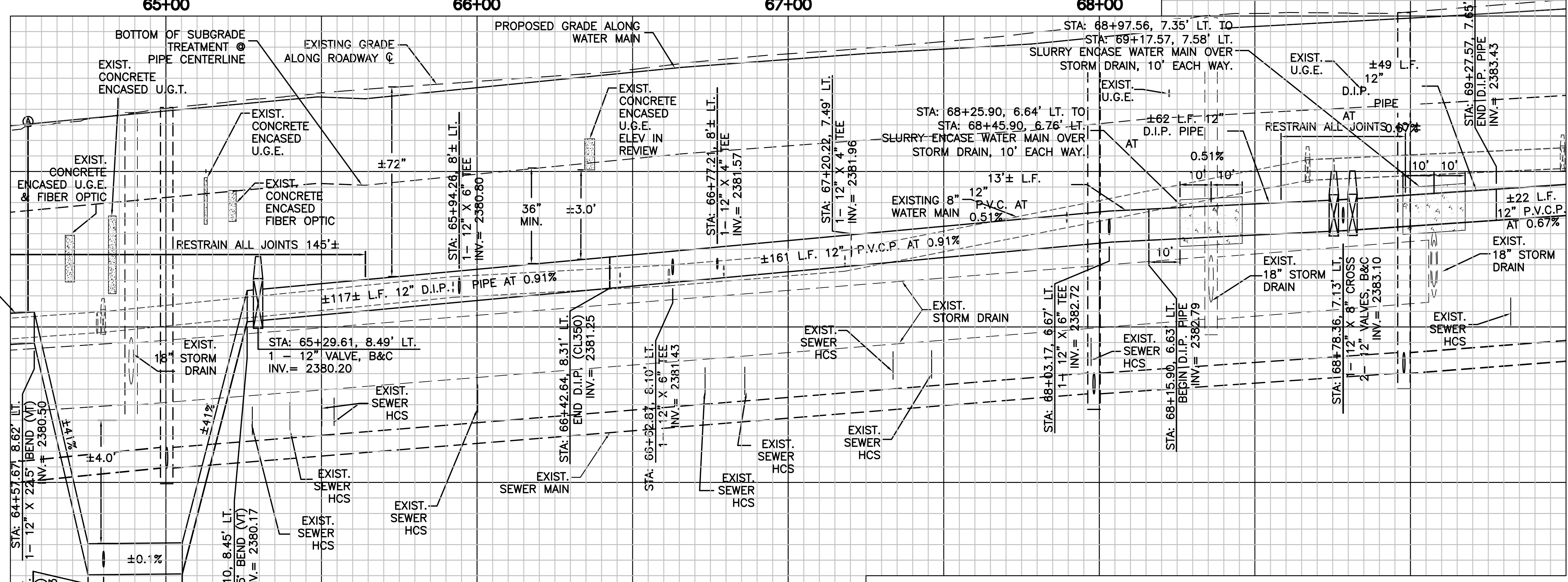


SCALE: 1"=20'

**CONGRESS STREET**

STATIONING IS ALONG THE ROADWAY CENTERLINE,  
UNLESS NOTED OTHERWISE

MATCHLINE  
SEE SHEET W11



NOTE: SEE SHEET W22 OF W29  
(177 OF 184) FOR  
SERVICE WORK TABLE.

**WATER PLAN**

CITY OF TUCSON WATER DEPARTMENT  
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET-GRANADA AVE. TO 5TH AVE.

W9 164  
OF 184

**P** PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
100% SUBMITTAL

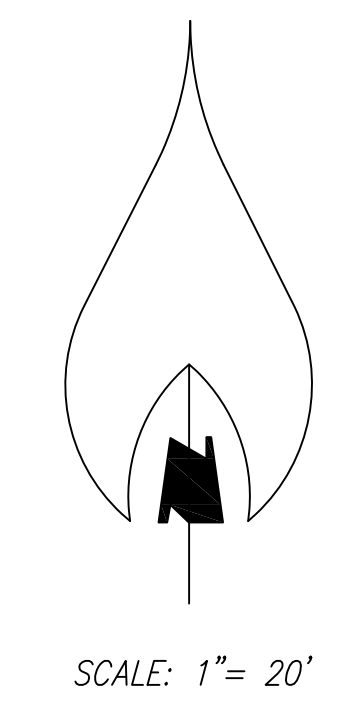
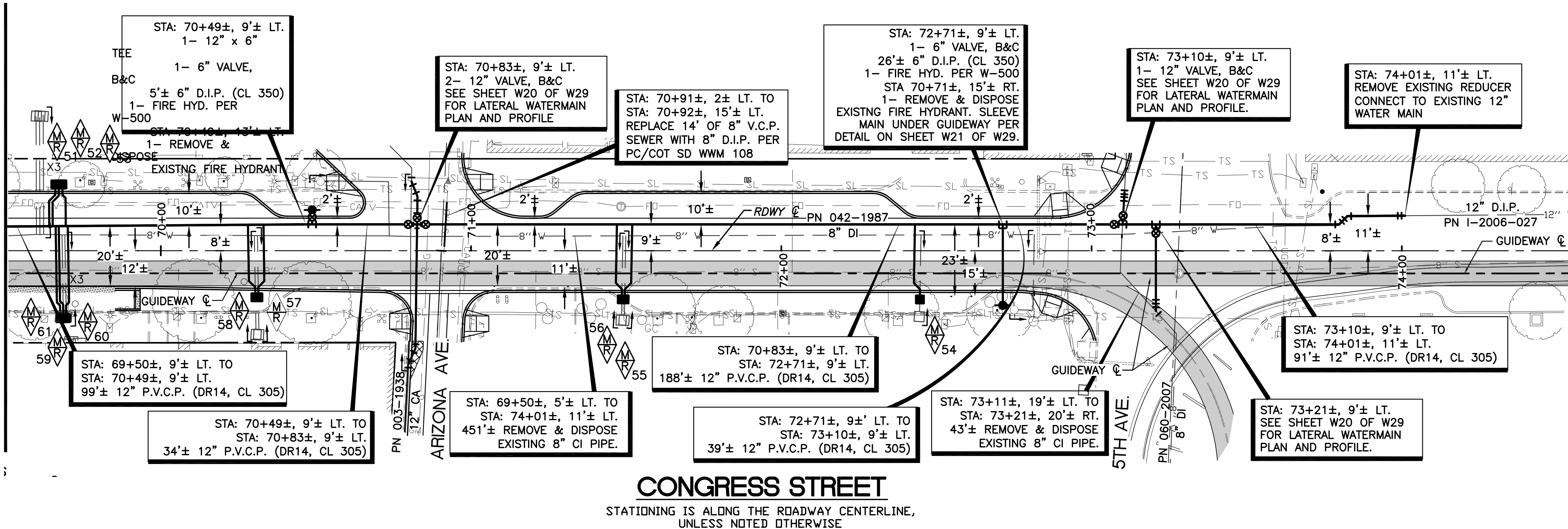


DRWN. BY T. LEACH  
DSGN. BY B. HOSACK  
CHKD. BY A. BATT

REF. CU-WTRP05 SCALE: 1"=20'  
PLAN NO. I-2008-035

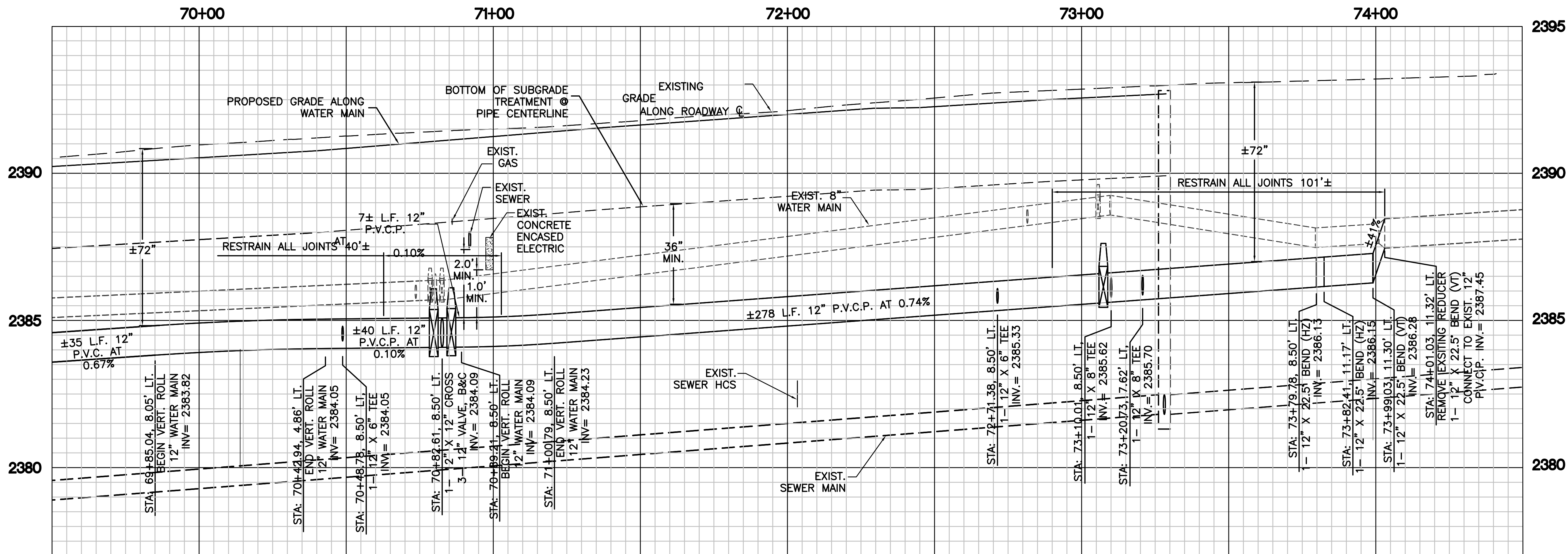
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 Madsen, Doug

MATCHLINE STA 69+50  
SEE SHEET W9



**CONGRESS STREET**

STATIONING IS ALONG THE ROADWAY CENTERLINE,  
UNLESS NOTED OTHERWISE



NOTE: SEE SHEET W22 OF W29  
(177 OF 184) FOR  
SERVICE WORK TABLE.

NO WORKING DATE BEFORE YOU DO  
CALLS FOR THE BLUE STAKES  
BLUE STAKE CENTER  
CALL COLLECT  
1-800-782-5348

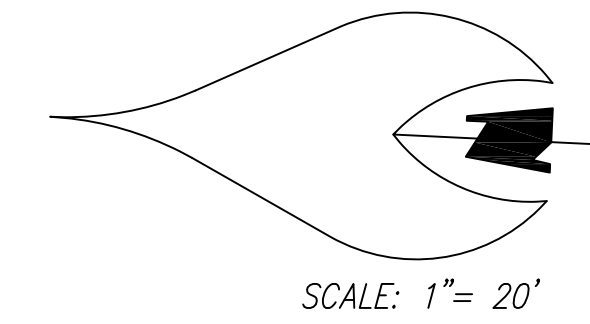
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INTENDED AND FOR OTHER THAN THE CLIENT  
FOR WHOM IT WAS PREPARED IS FORBIDDEN  
UNLESS EXPRESSLY PERMITTED IN WRITING IN  
ADVANCE BY STANTEC CONSULTING AND  
STANTEC CONSULTING SHALL HAVE NO  
LIABILITY TO ANY USER OF THE INFORMATION  
WITHOUT THEIR WRITTEN CONSENT.

**WATER PLAN**

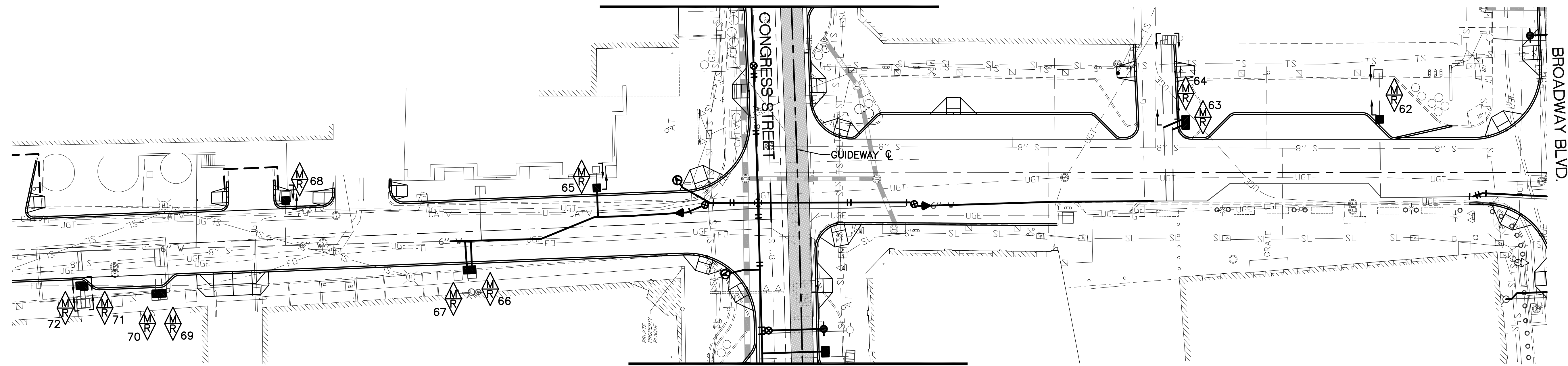
<p><b>P</b>RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL</p>	<p>CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.</p>		<p>W10 OF 165 W29 OF 184</p>
	<p>DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT</p>	<p>REF. CU-WTPR06 SCALE: 1"=20' PLAN NO. I-2008-035</p>	<p>CITY OF TUCSON</p>

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Mikes, Doug



MATCHLINE  
SEE SHEET W8



MATCHLINE  
SEE SHEET W9

**SCOTT AVE.**

STATIONING IS ALONG THE ROADWAY CENTERLINE,  
UNLESS NOTED OTHERWISE

NOTE: SEE SHEET W22 OF W29  
(177 OF 184) FOR  
SERVICE WORK TABLE.



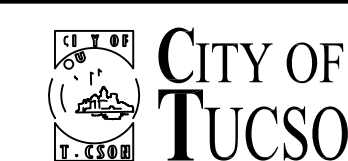
USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**WATER PLAN**

CITY OF TUCSON WATER DEPARTMENT  
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET-GRANADA AVE. TO 5TH AVE.

W11 166  
OF  
W29 184

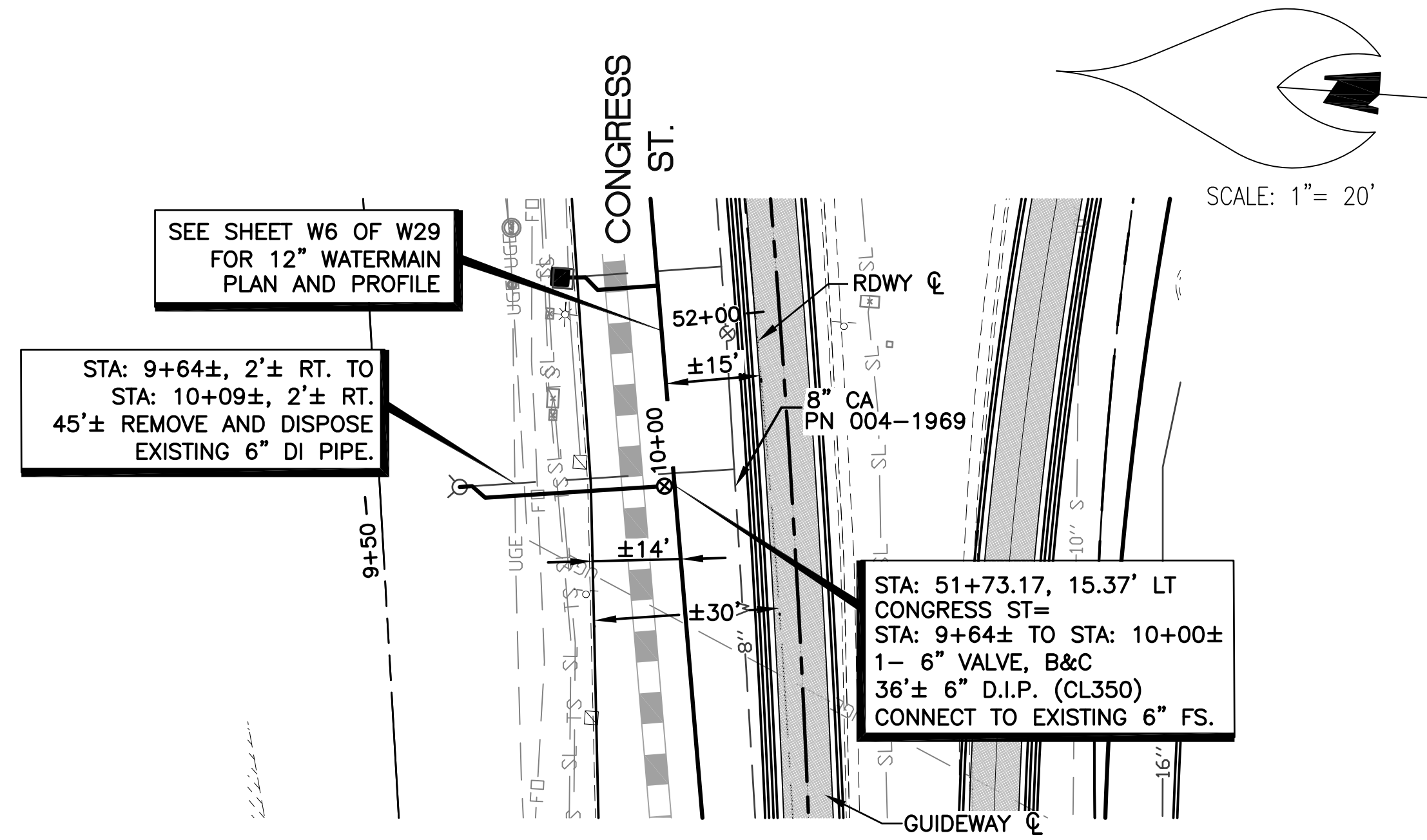
**PRELIMINARY**  
03.10.09  
NOT FOR CONSTRUCTION  
100% SUBMITTAL



DRWN. BY T. LEACH  
DSGN. BY B. HOSACK  
CHKD. BY A. BATT

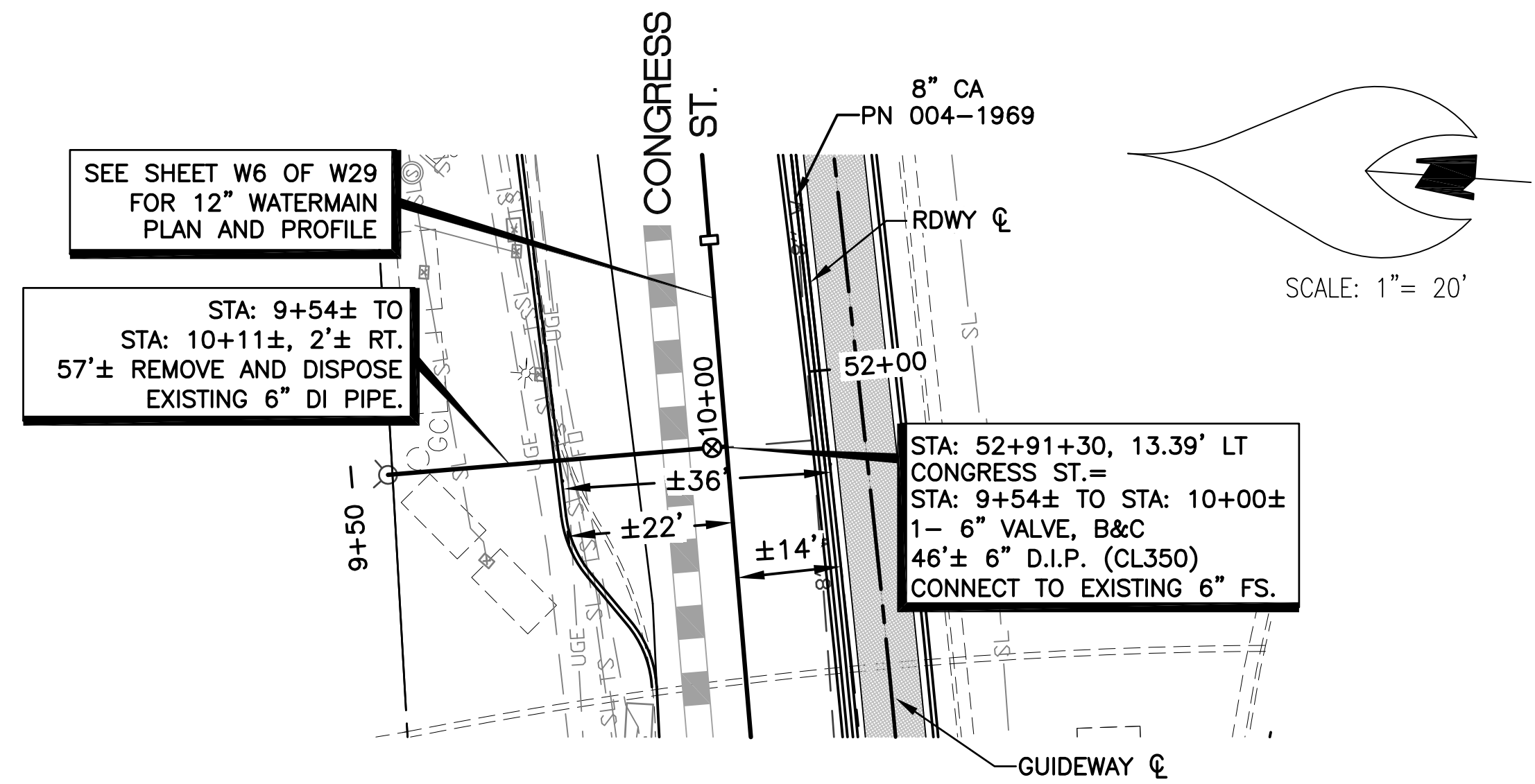
REF. CU-WTPR07 SCALE: 1"=20'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



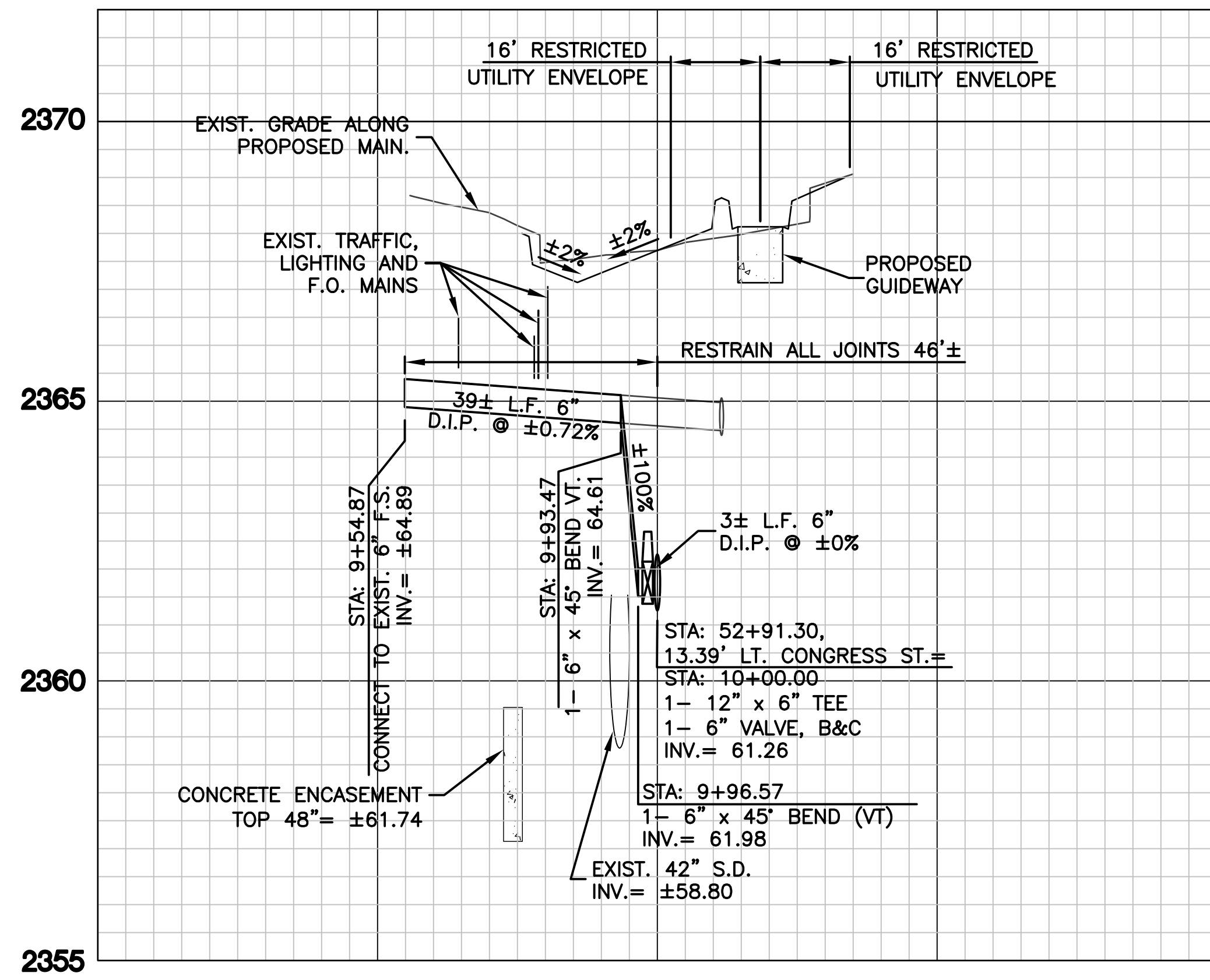
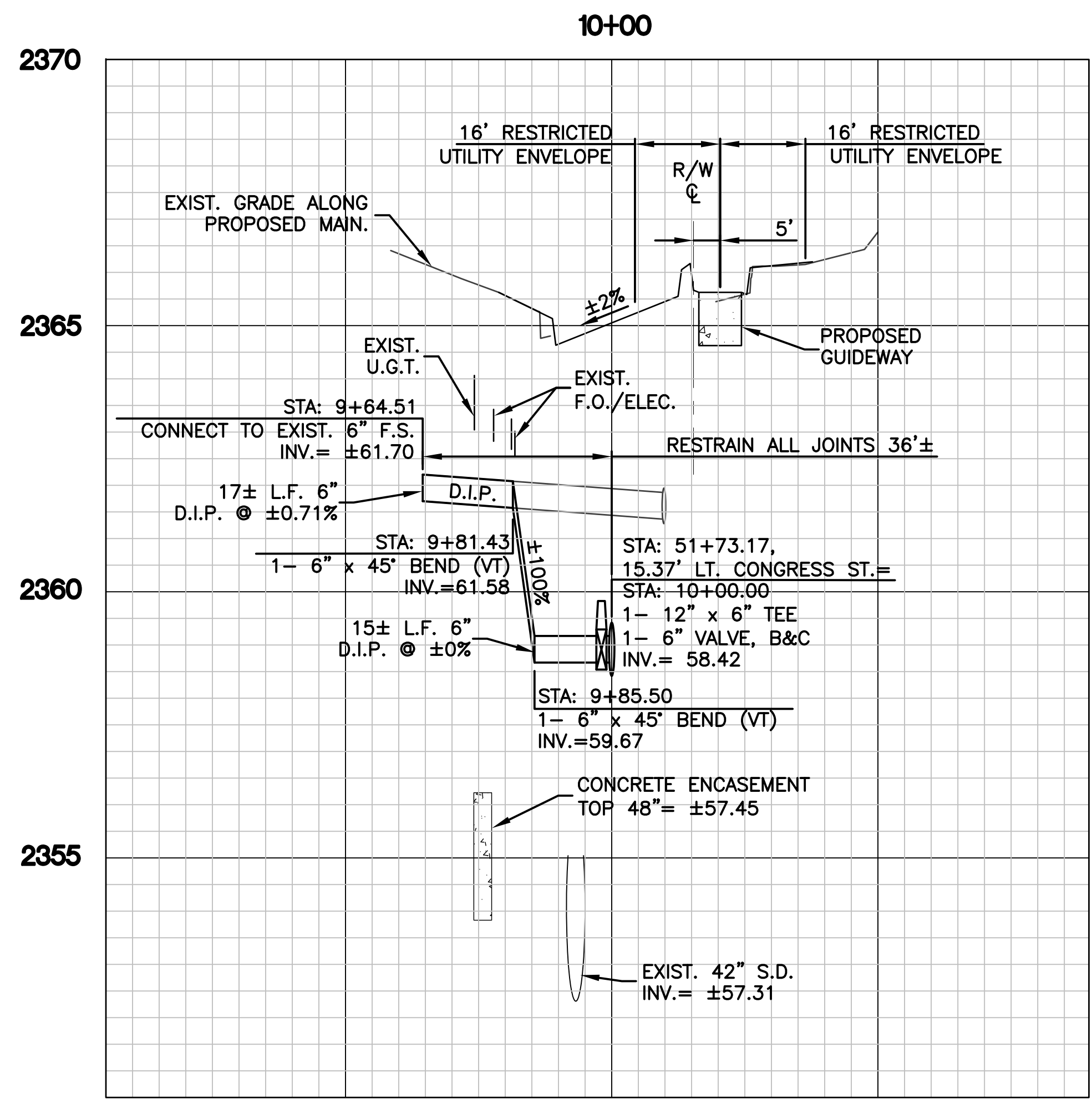
**51+73± (FS)**

STATIONING IS ALONG THE SERVICE MAIN,  
UNLESS NOTED OTHERWISE



**52+91± (FS)**

STATIONING IS ALONG THE SERVICE MAIN,  
UNLESS NOTED OTHERWISE



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 Mikes, Doug

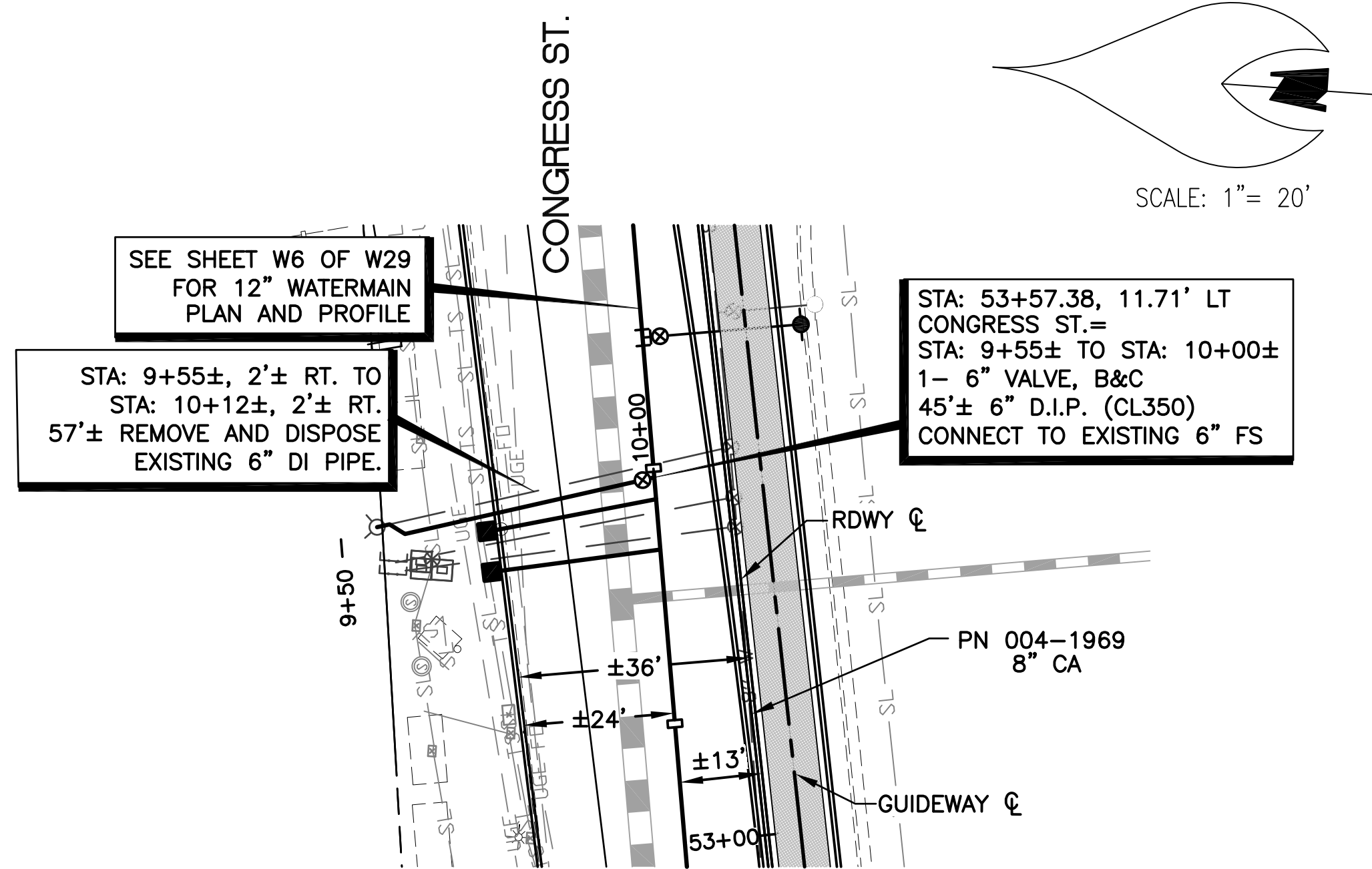
NO WORKING DAYS BEFORE YOU DIG  
 CALL FOR THE BLUE STAKES!  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL, COLLECT

USE OF THE INFORMATION CONTAINED IN  
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 INTENDED AND FOR OTHER THAN THE CLIENT  
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 ADVANCE BY STATTEC CONSULTING AND  
 STATTEC CONSULTING SHALL HAVE NO  
 LIABILITY TO ANY USE OF THIS INFORMATION  
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**WATER PLAN**

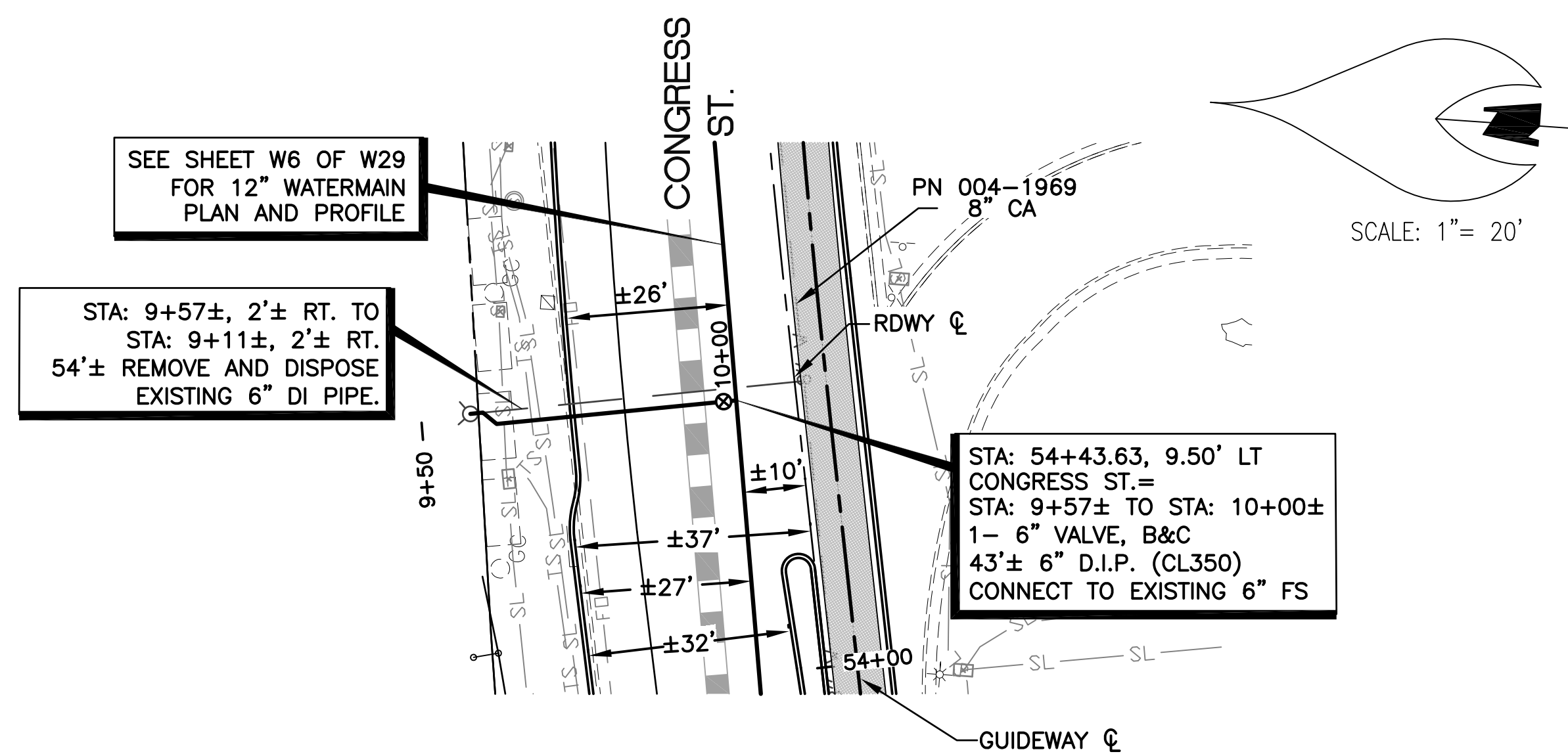
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			DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTDT01 SCALE: 1"=20' PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.



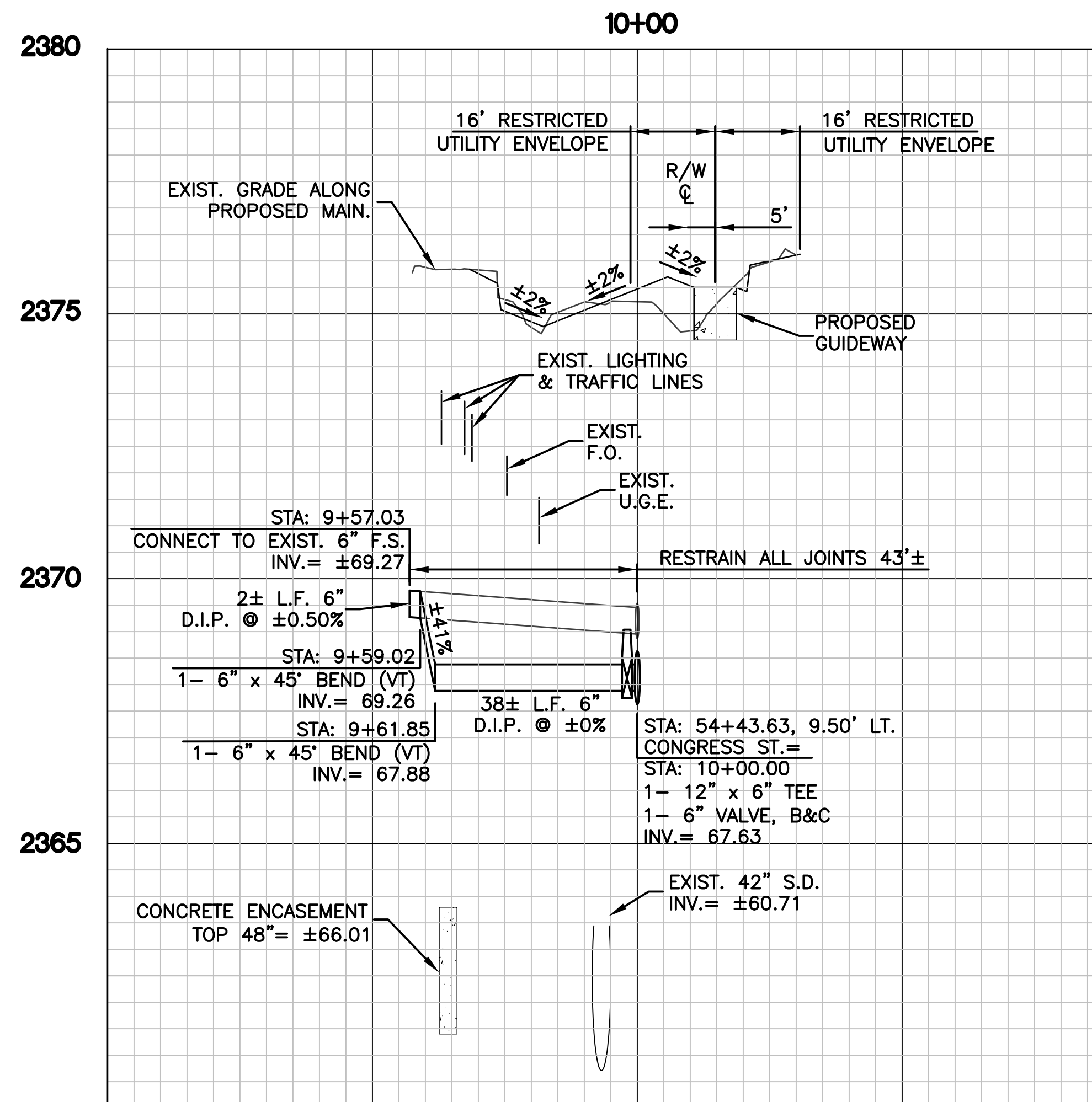
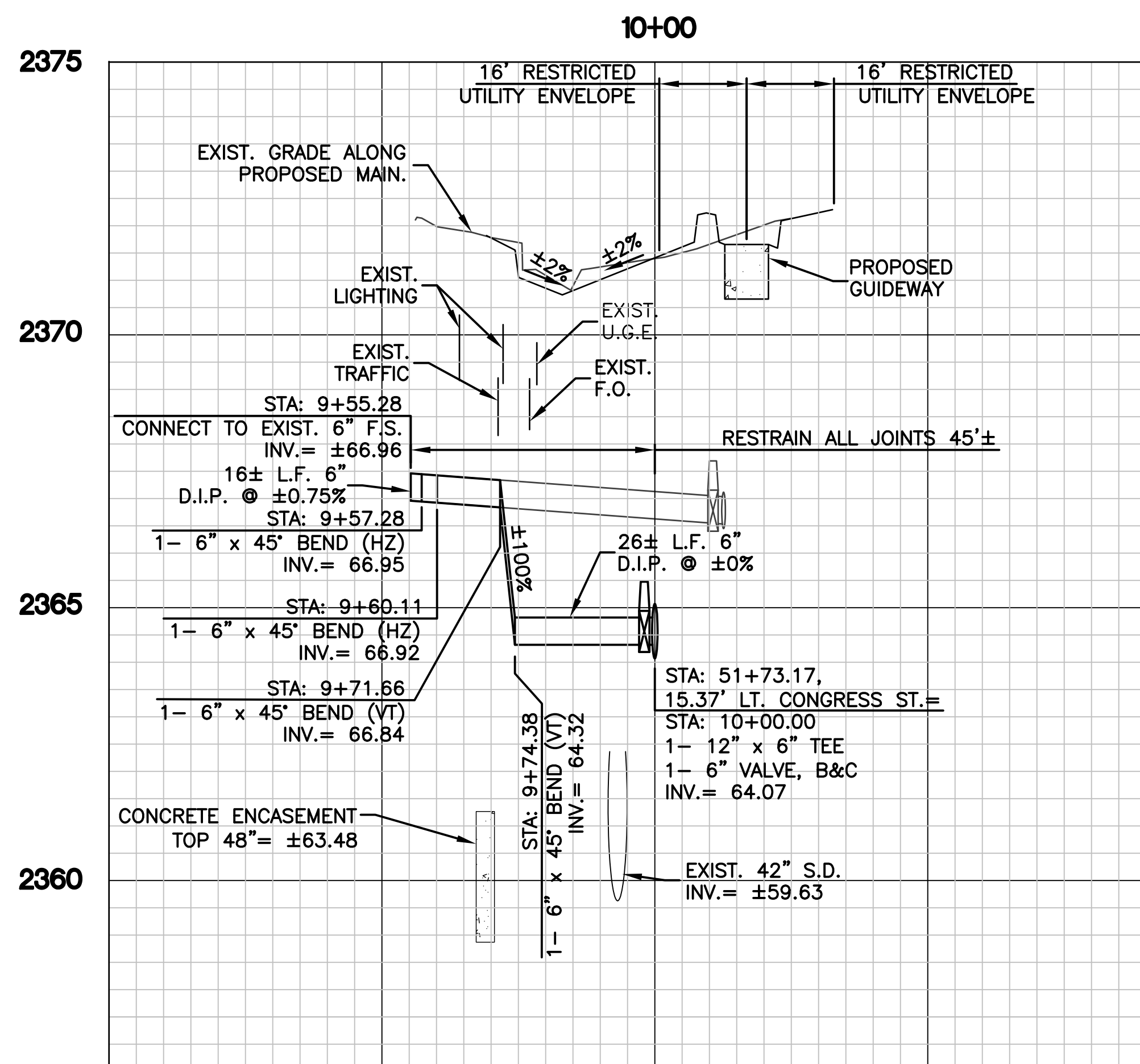
**53+57± (FS)**

STATIONING IS ALONG THE SERVICE MAIN,  
UNLESS NOTED OTHERWISE



**54+44± (FS)**

STATIONING IS ALONG THE SERVICE MAIN,  
UNLESS NOTED OTHERWISE



**WATER PLAN**

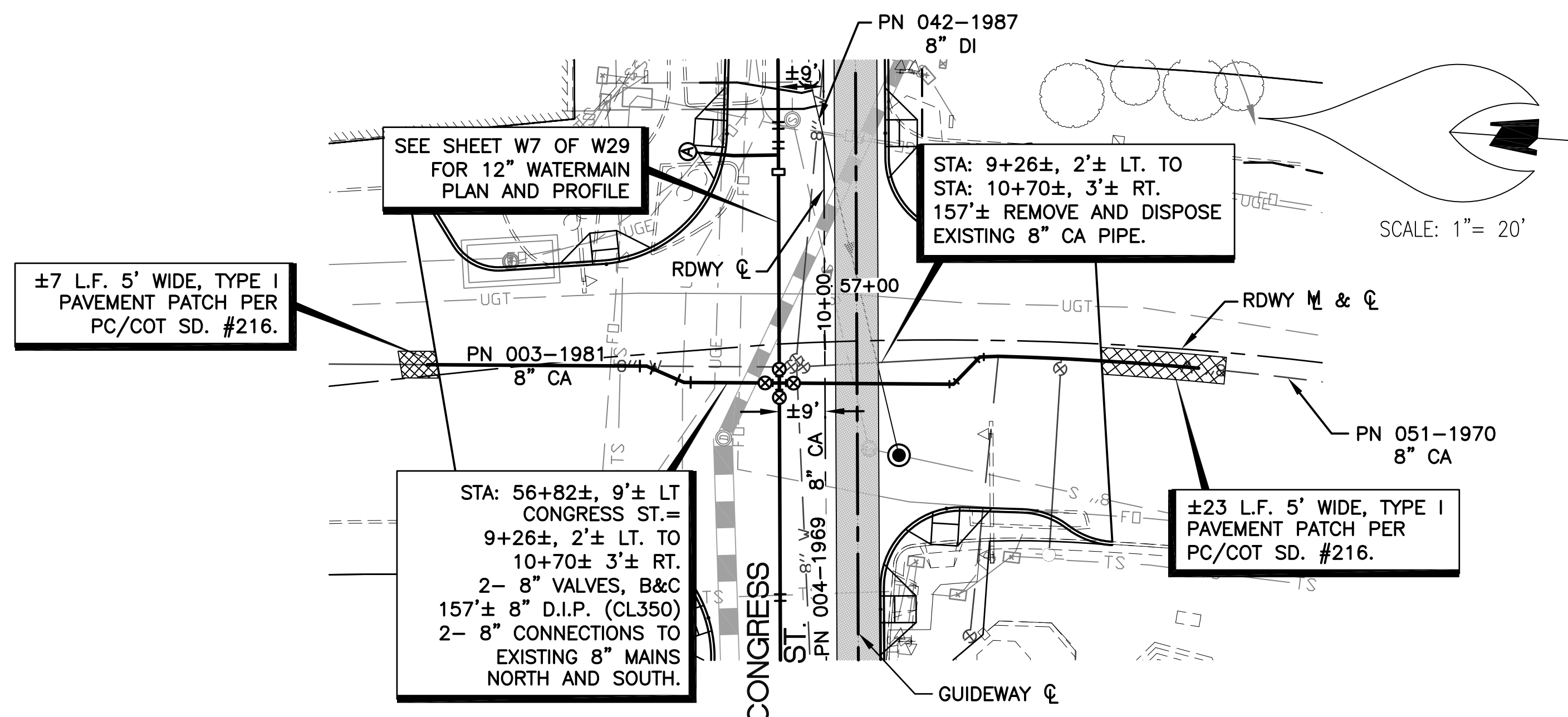
<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W13 OF W29	168 OF 184
	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTDT02 SCALE: 1"=20' PLAN NO. I-2008-035		

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Mikes, Dong

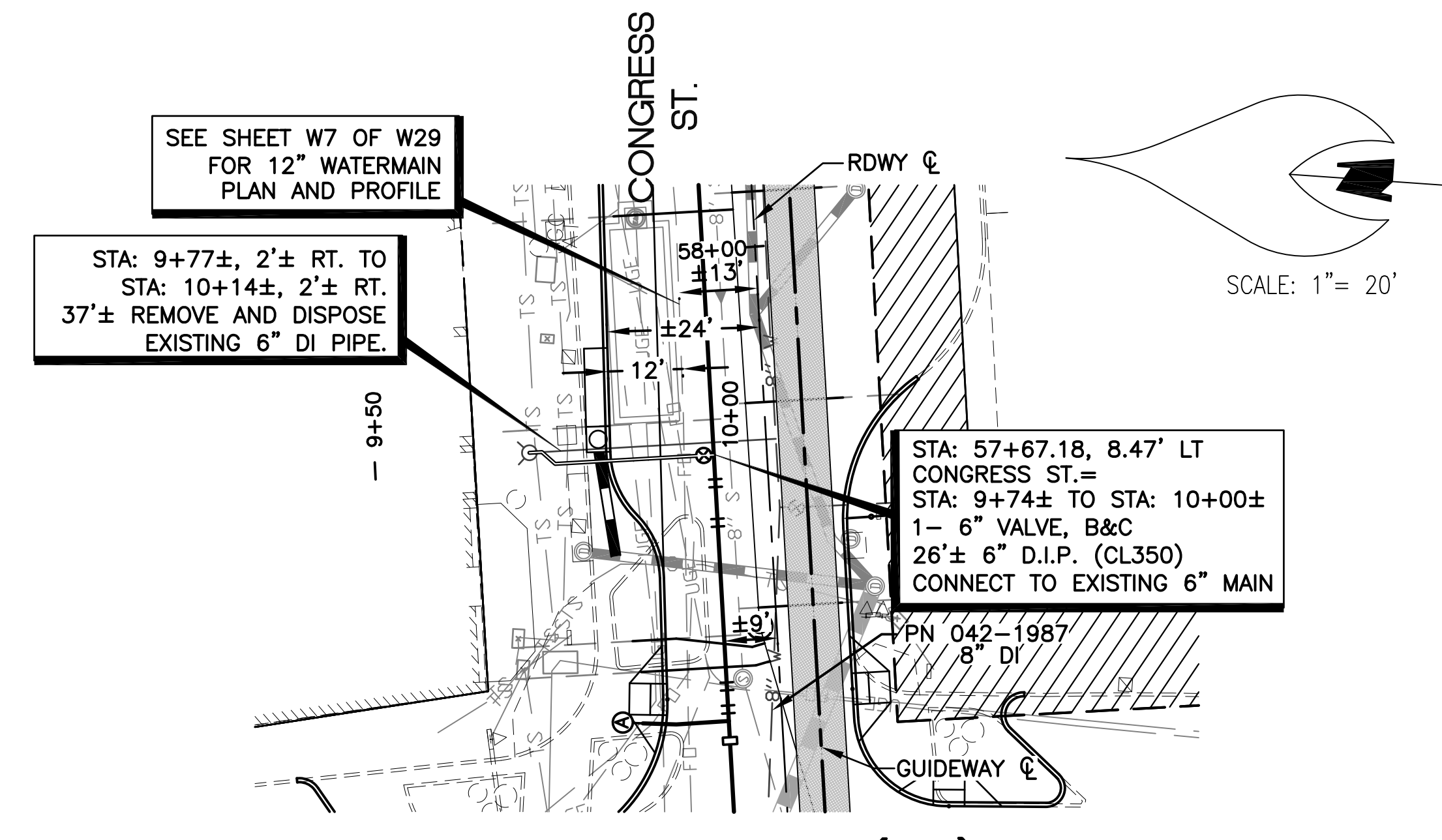
NO WORKING DAYS BEFORE YOU DIG  
 CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT  
 USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STATTEC CONSULTING AND STATTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.





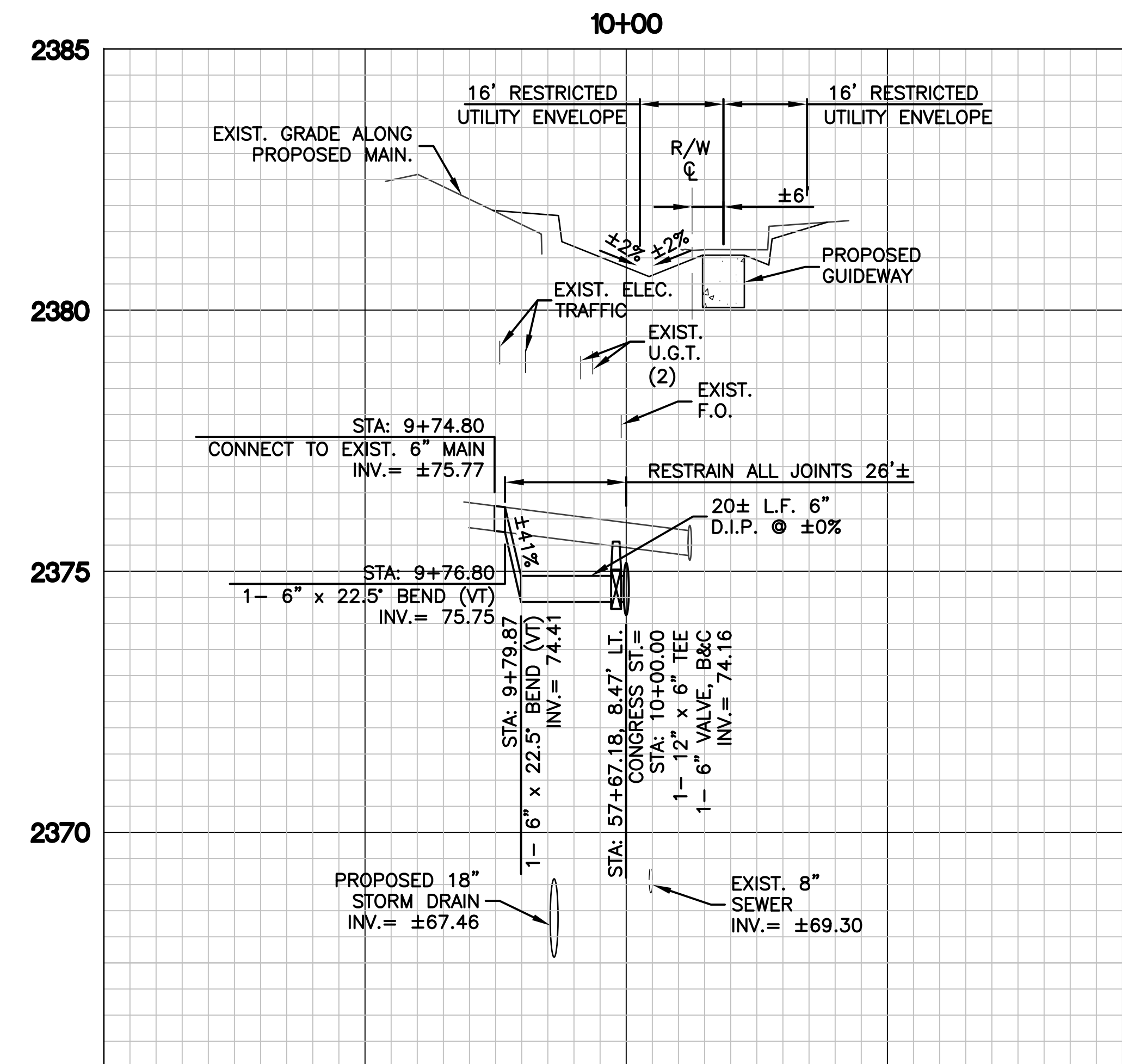
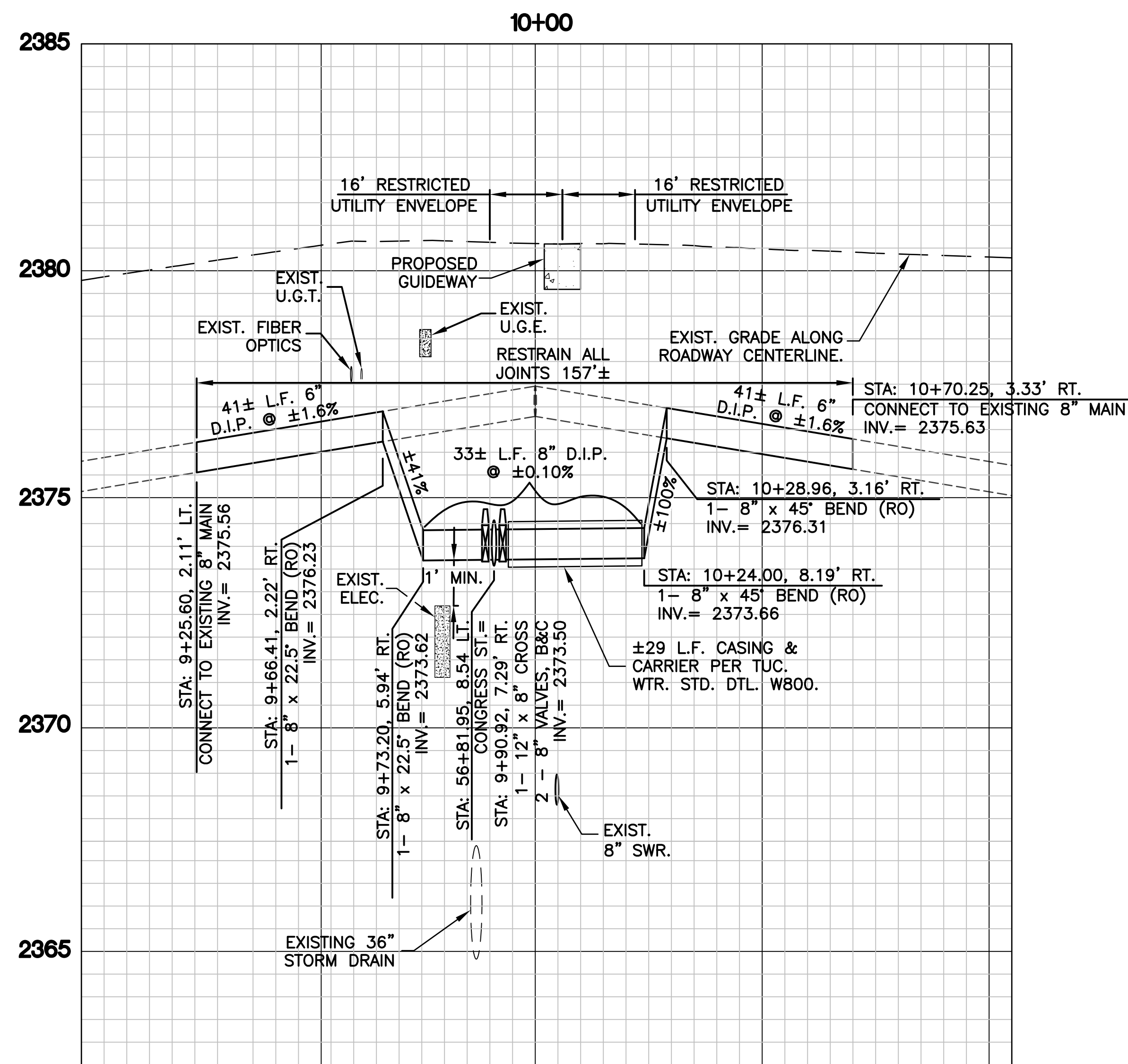
**CHURCH AVENUE**

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



**STA: 57+67± (FS)**

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



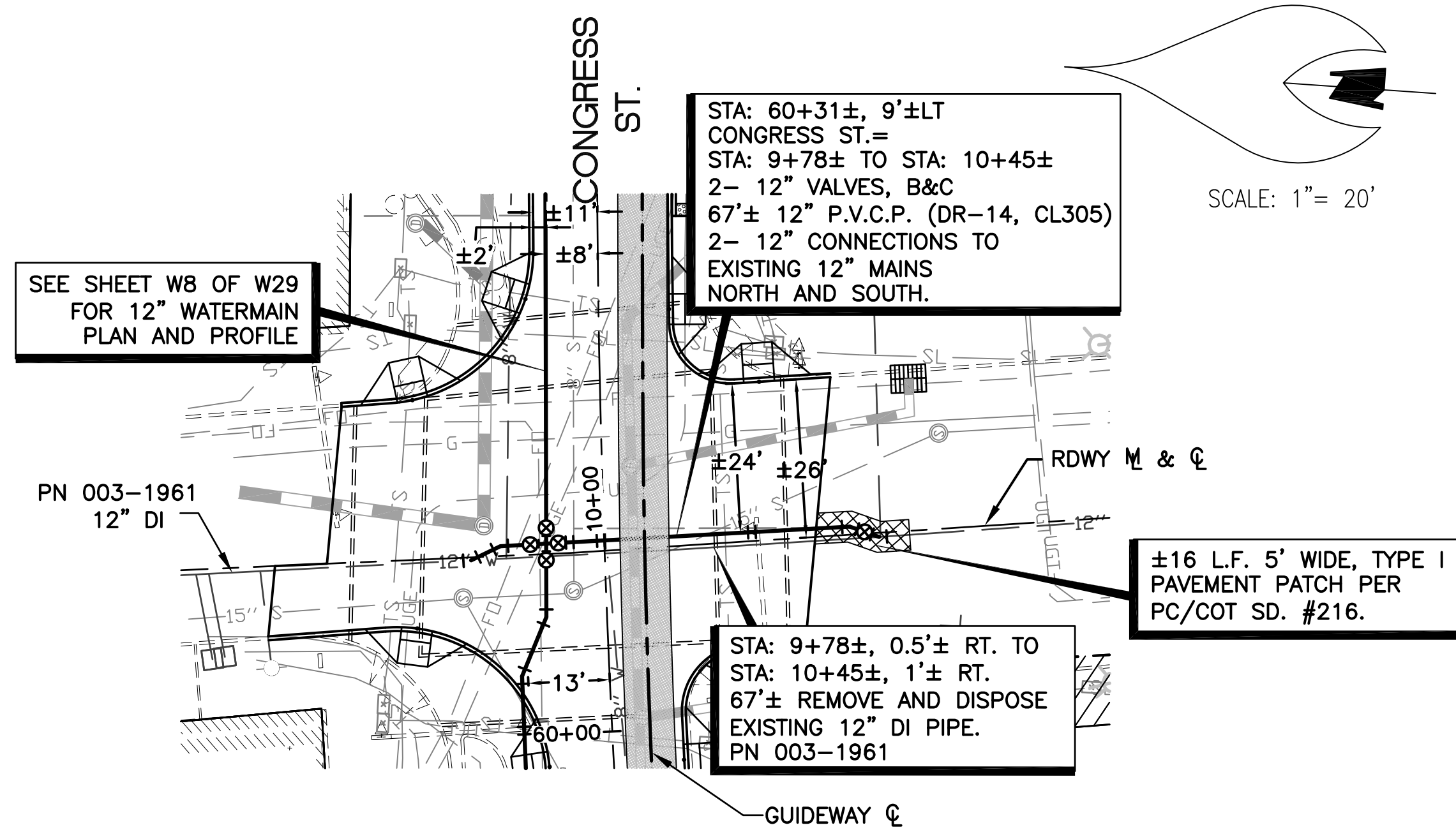
**WATER PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W14 OF W29	169 OF 184
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTD03 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

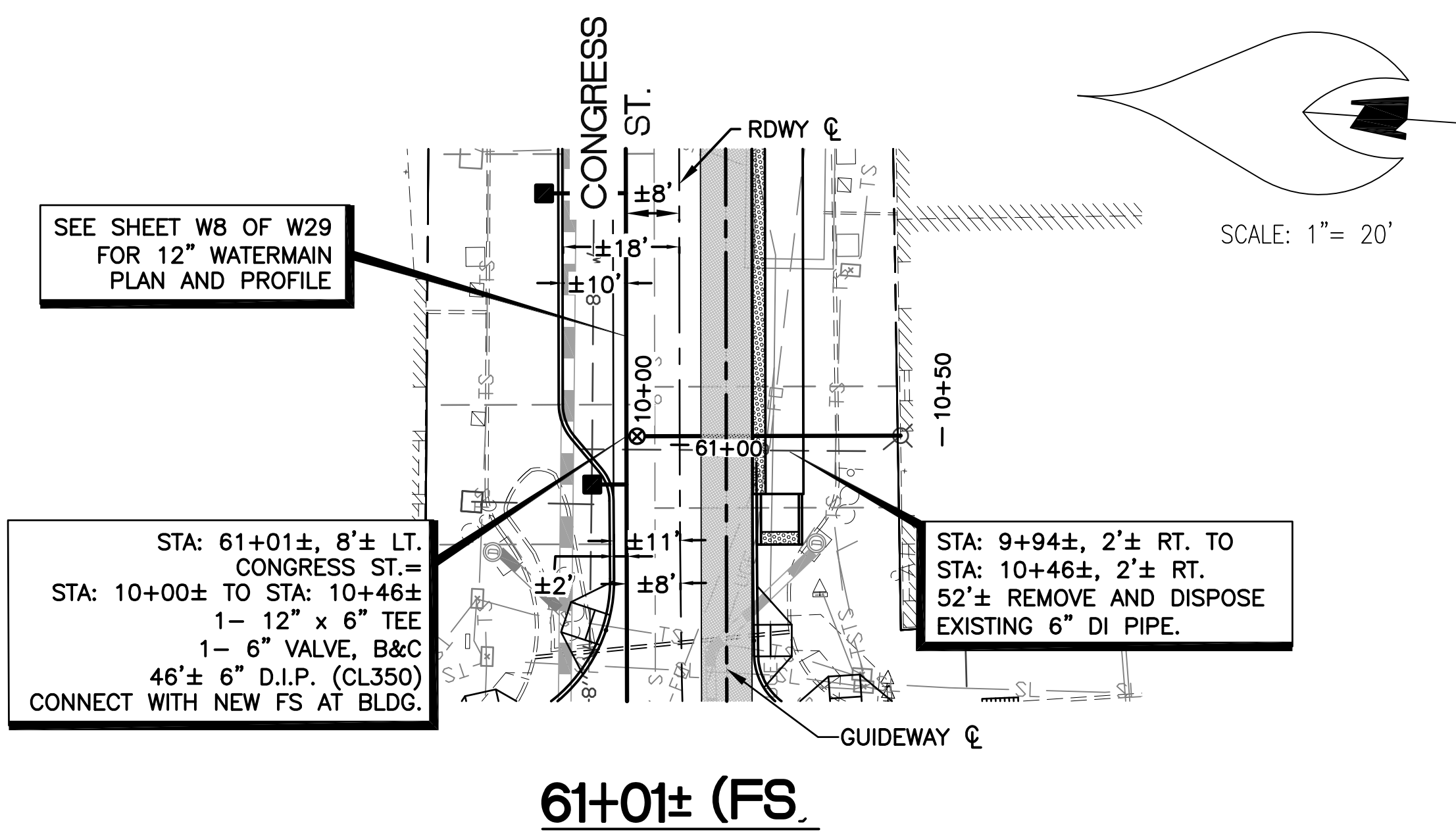
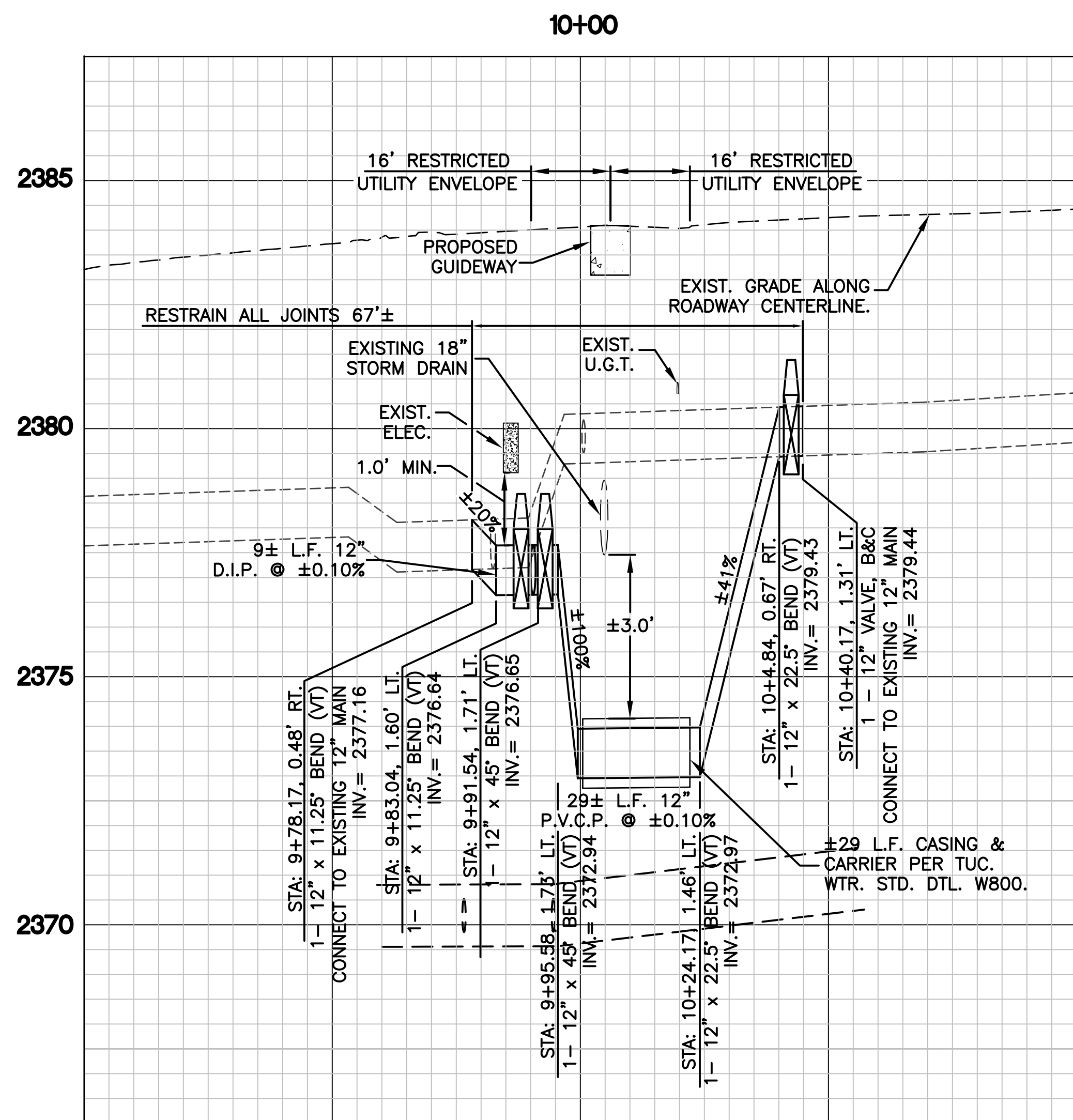
NO WORKING DAYS BEFORE YOU DIG  
 CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL, COLLECT

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS PROHIBITED UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STATTEC CONSULTING AND STATTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

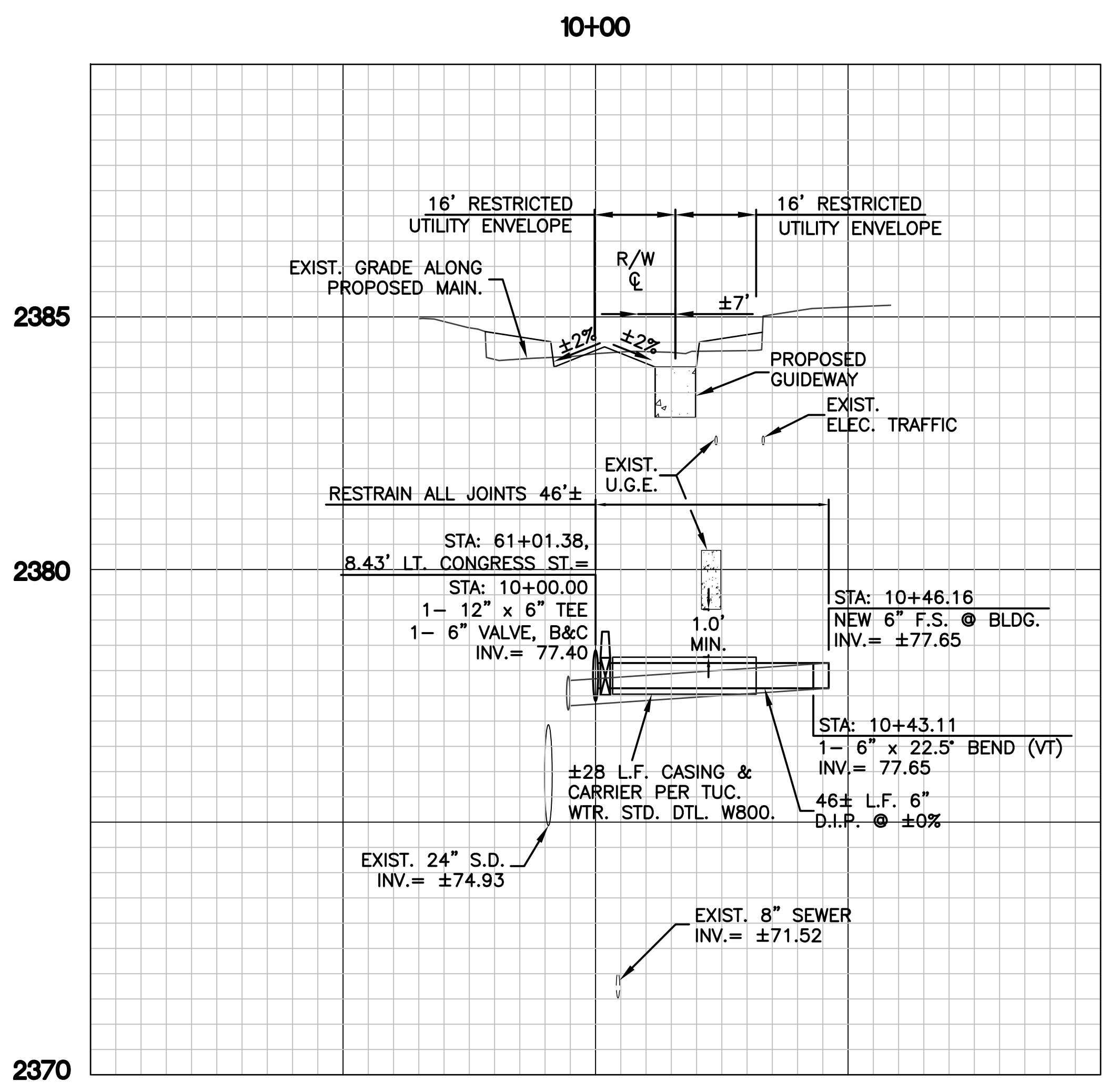


### STONE AVENUE

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



### 61+01± (FS)



NO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

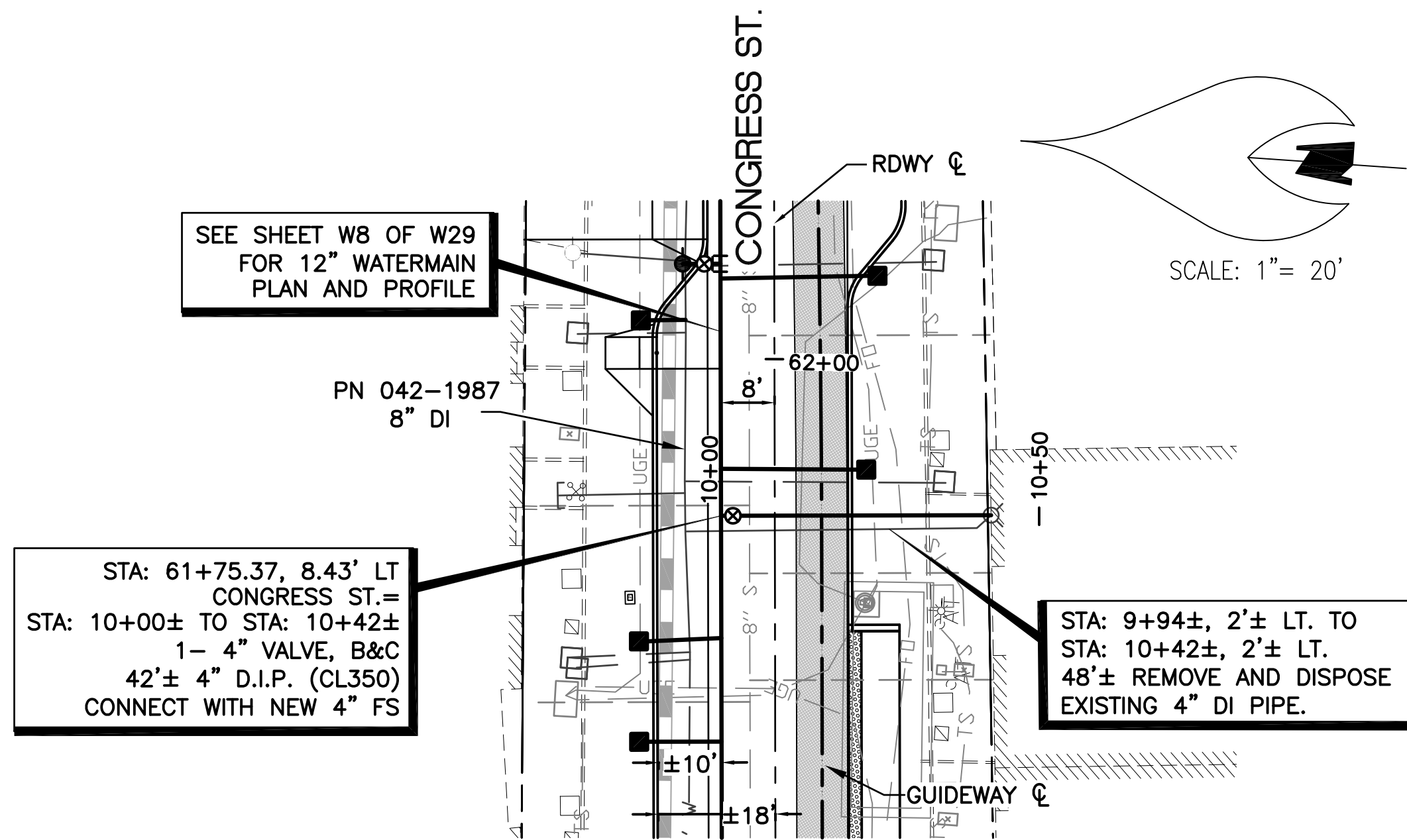
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### WATER PLAN

<b>P</b> RELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W15 OF W29 OF W184 OF
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTDT04 SCALE: 1"=20' PLAN NO. I-2008-035

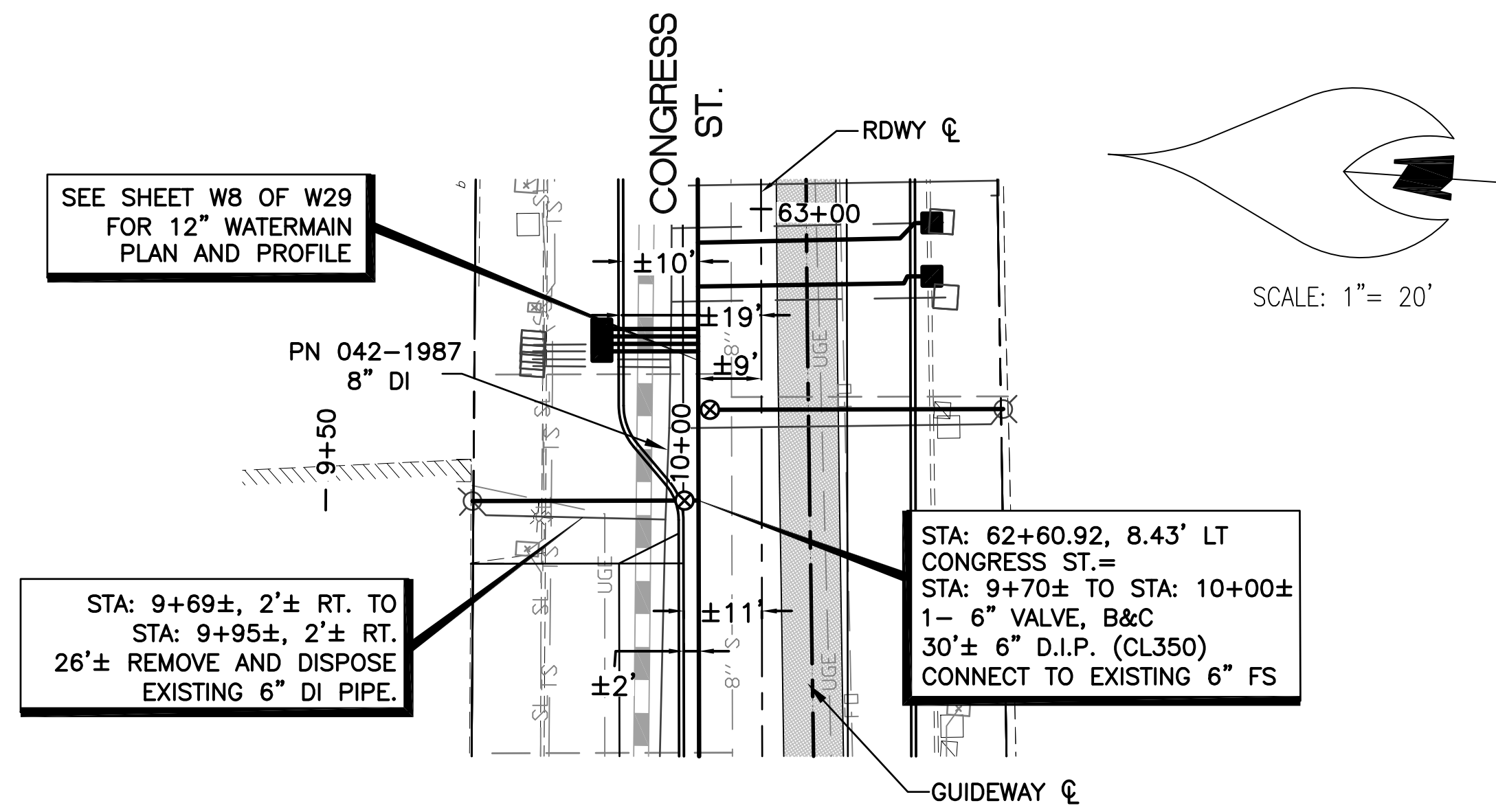
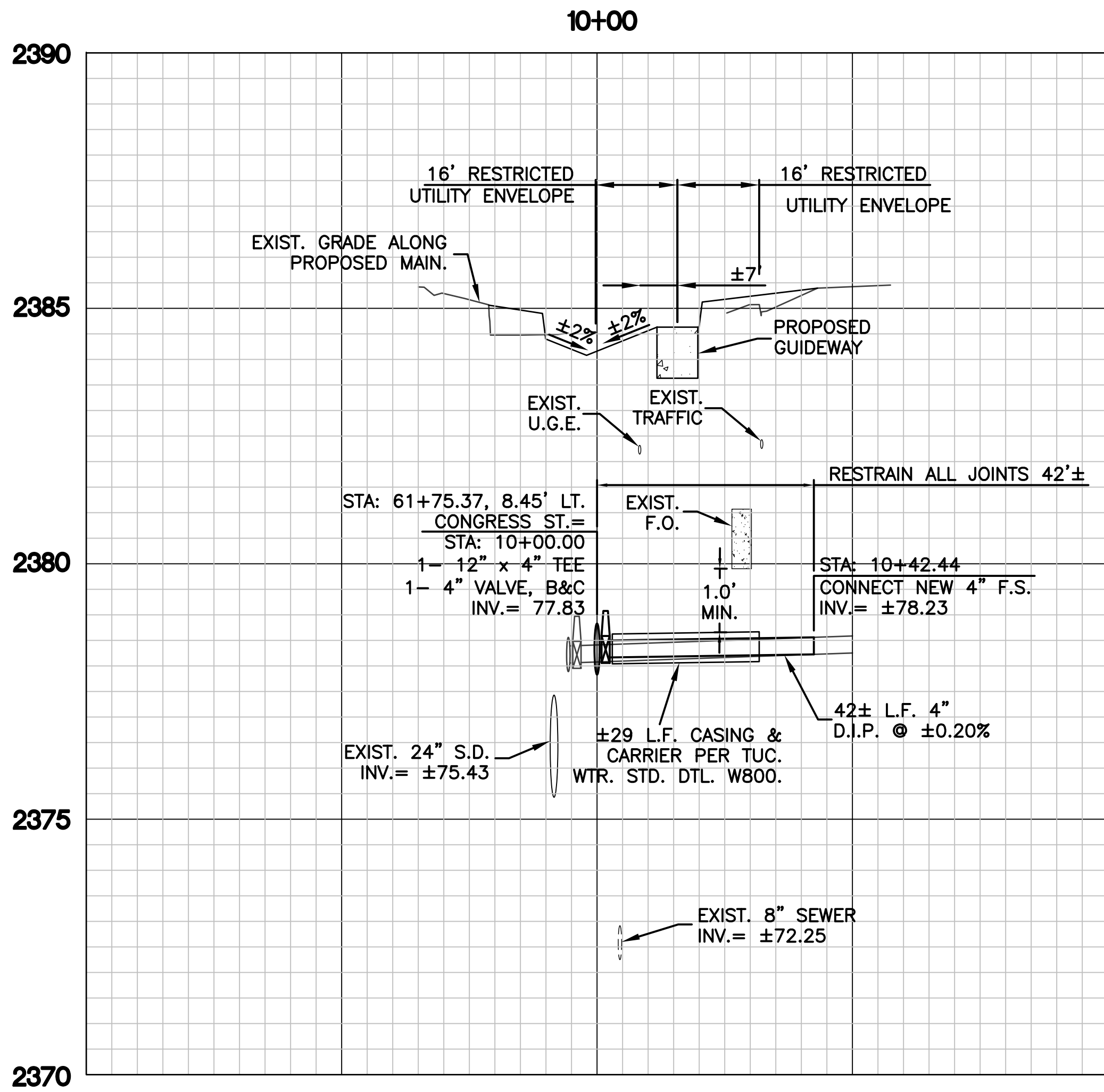
NO.	DATE	REVISION	BY	CHKD.	APPR.

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3/9/2009 4:55:57 PM  
Moses, Doug



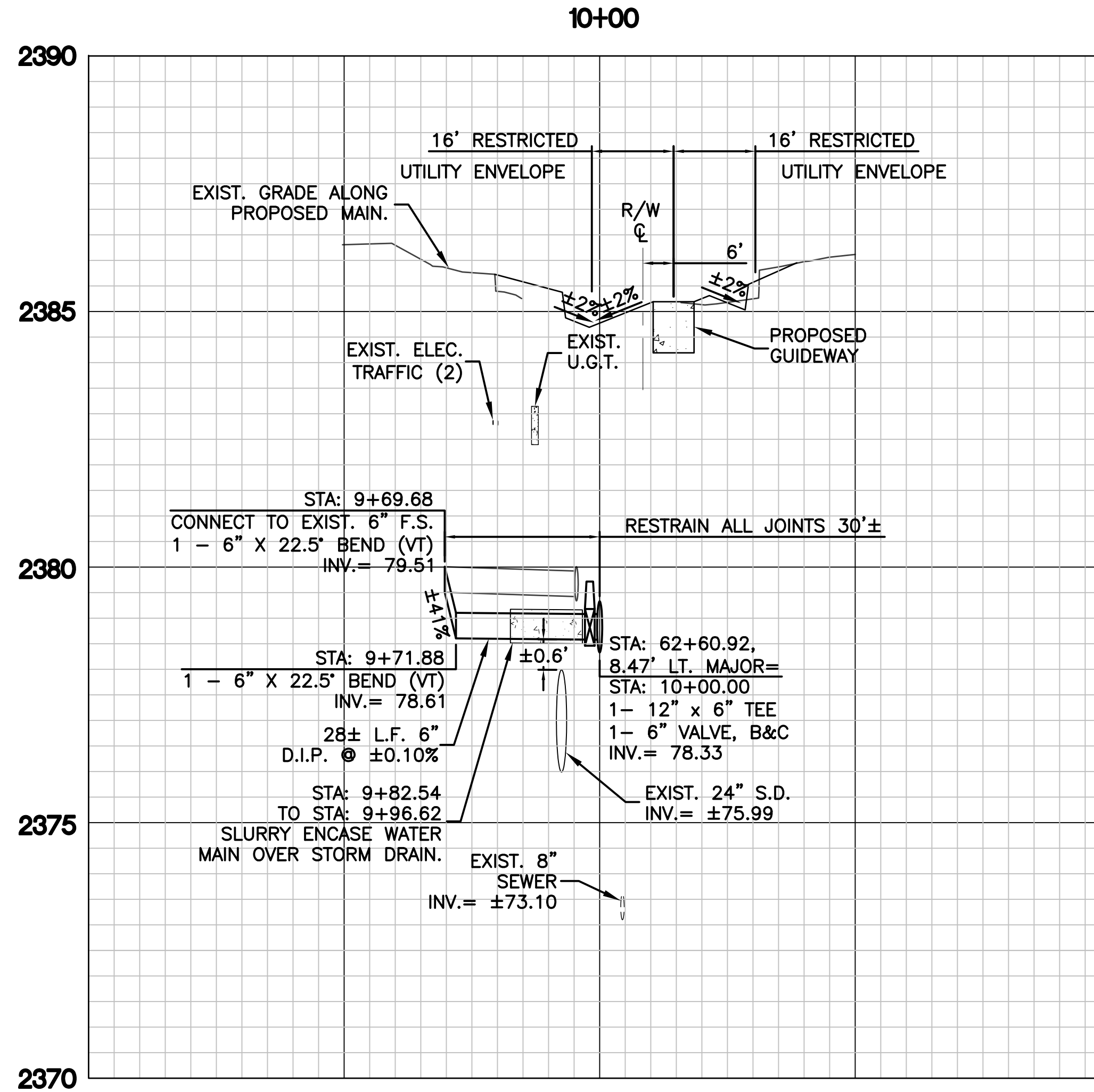
**61+75± (FS)**

STATIONING IS ALONG THE SERVICE MAIN, UNLESS NOTED OTHERWISE



**62+61± (FS)**

STATIONING IS ALONG THE SERVICE MAIN, UNLESS NOTED OTHERWISE

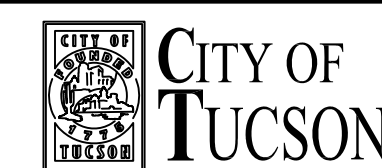


**WATER PLAN**

CITY OF TUCSON WATER DEPARTMENT  
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET-GRANADA AVE. TO 5TH AVE.

W16 171  
OF OF  
W29 184

**P**RELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
100% SUBMITTAL



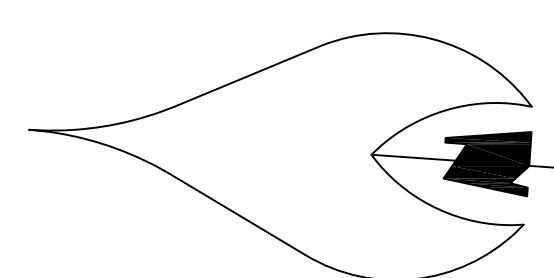
DRWN. BY T. LEACH  
DSGN. BY B. HOSACK  
CHKD. BY A. BATT

REF. CU-WTD705 SCALE: 1"=20'  
PLAN NO. I-2008-035

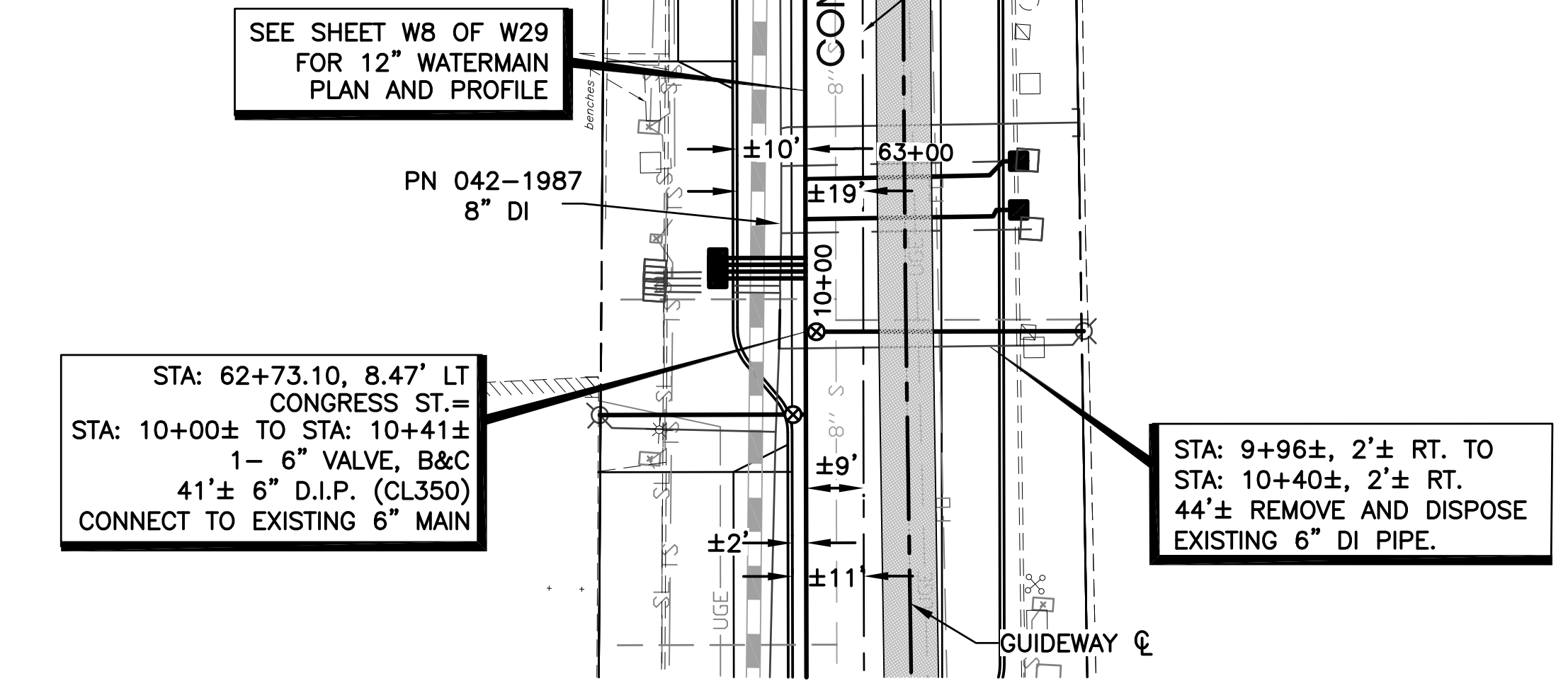
NO.	DATE	REVISION	BY	CHKD.	APPR.

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 3/9/2009 4:53:35 PM  
 Mikes, Doug

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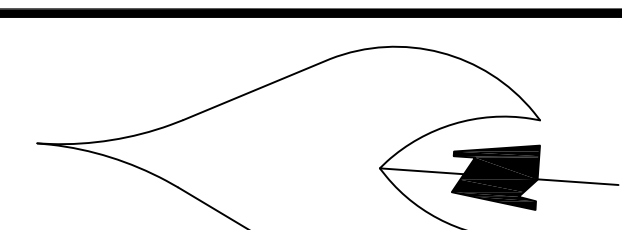
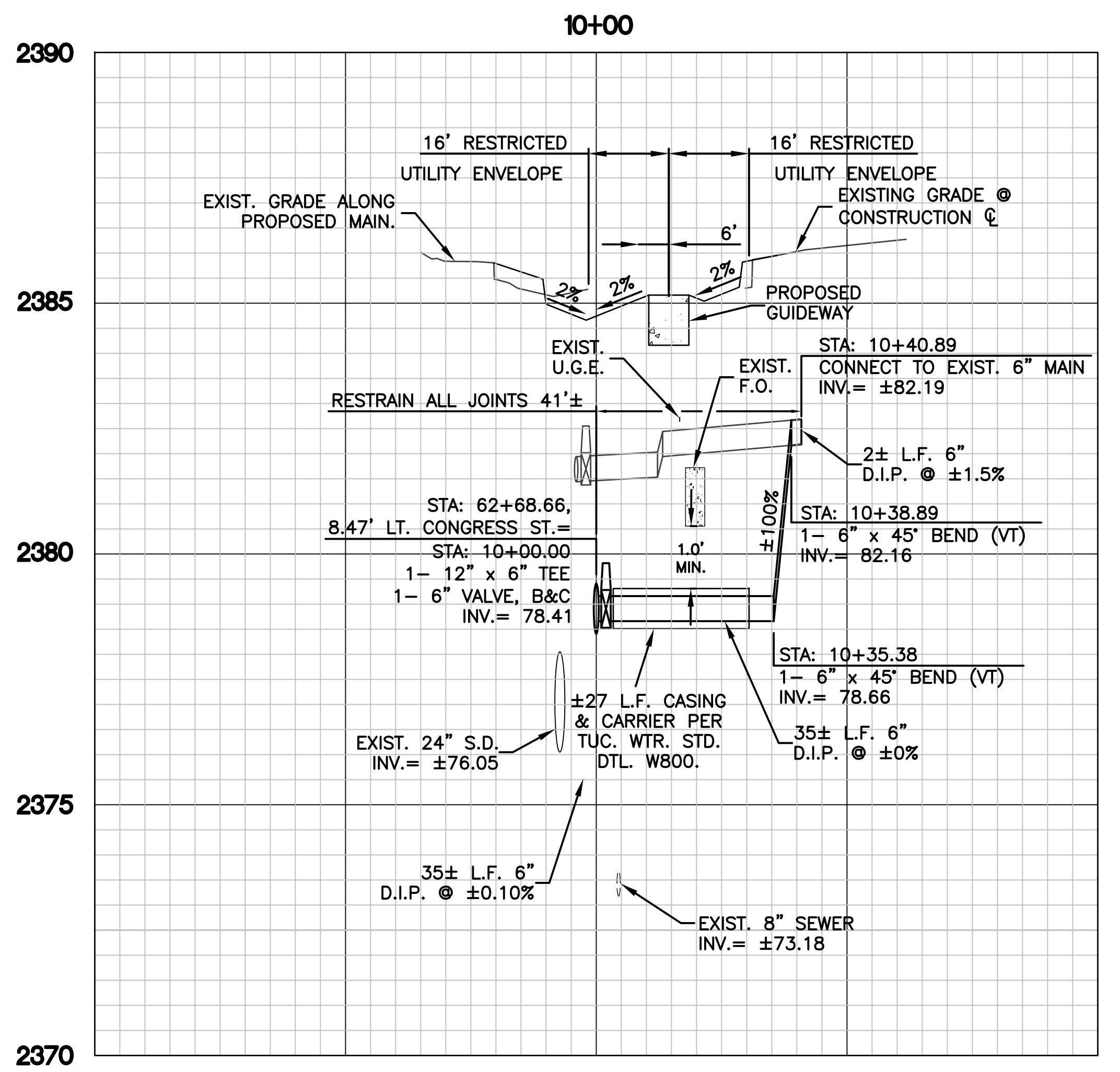


SCALE: 1" = 20'

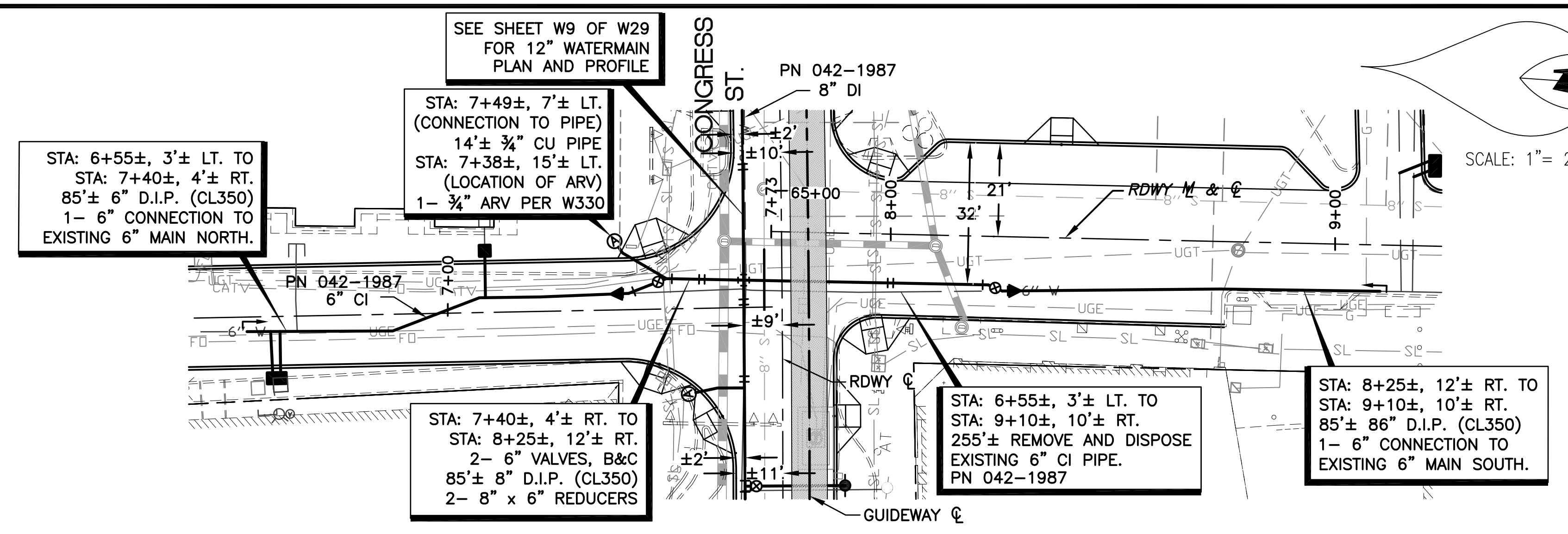


### 62+73± (FS)

STATIONING IS ALONG THE SERVICE MAIN, UNLESS NOTED OTHERWISE

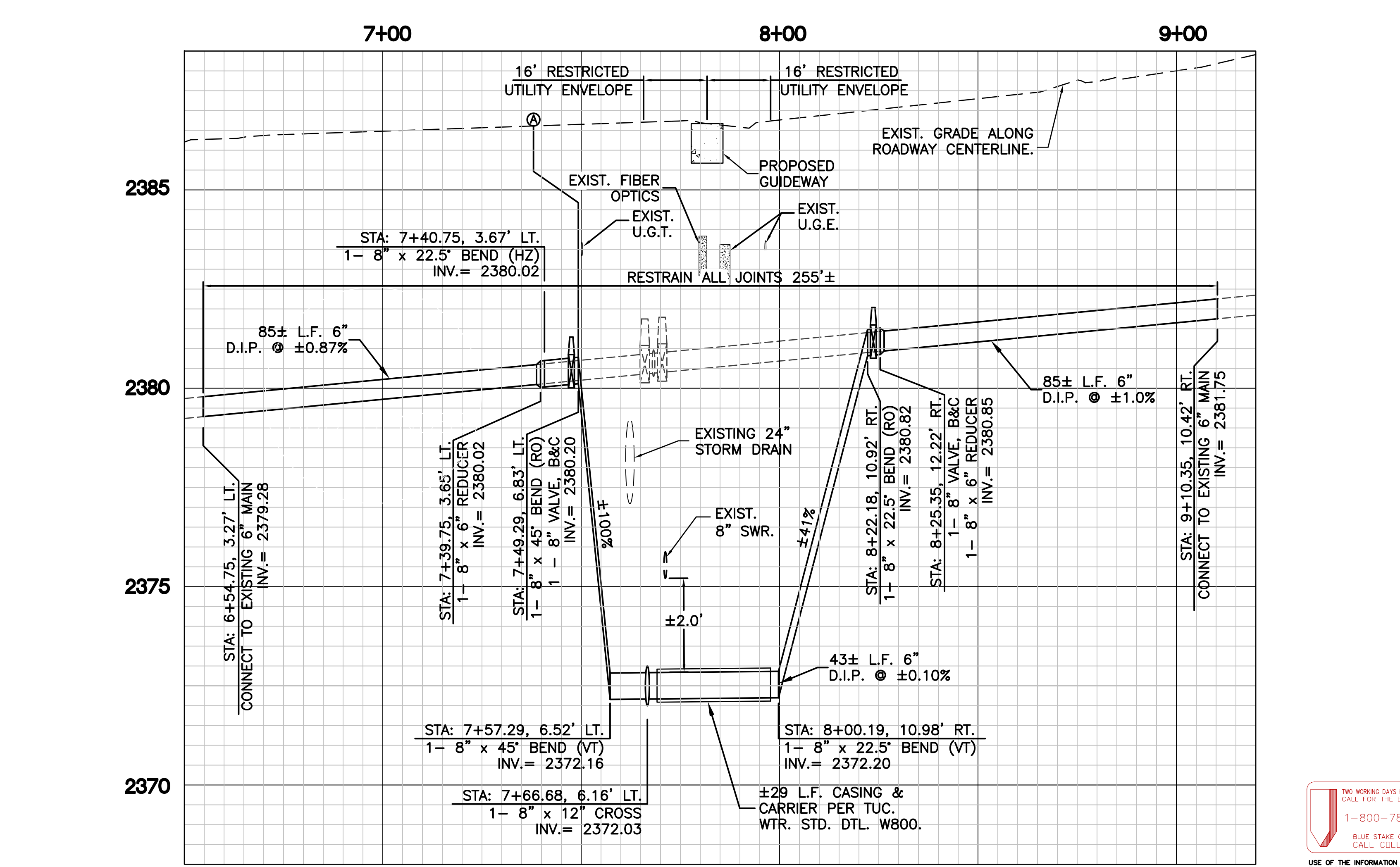


SCALE: 1" = 20'



### SCOTT AVENUE

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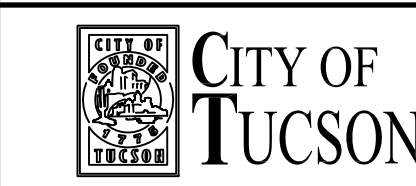


### WATER PLAN

CITY OF TUCSON WATER DEPARTMENT  
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET-GRANADA AVE. TO 5TH AVE.

W17 OF W29  
172 OF 184

PRELIMINARY  
03.10.09  
NOT FOR CONSTRUCTION  
100% SUBMITTAL



DRWN. BY T. LEACH  
DSGN. BY B. HOSACK  
CHKD. BY A. BATT

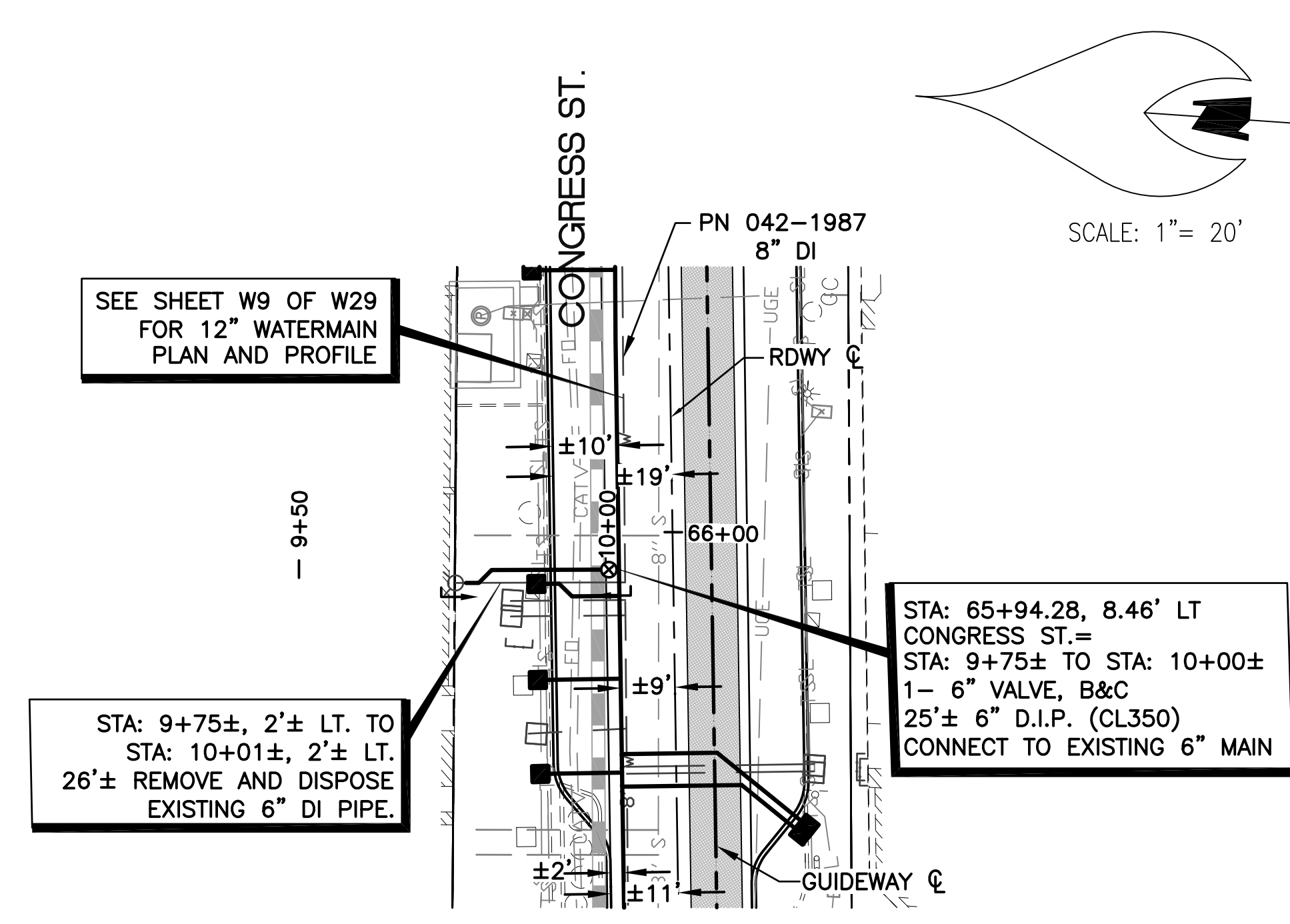
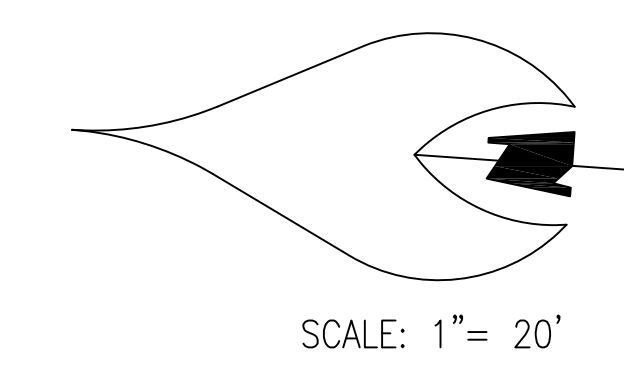
REF. CU-WTD06 SCALE: 1"=20'  
PLAN NO. I-2008-035

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Madden, Doug

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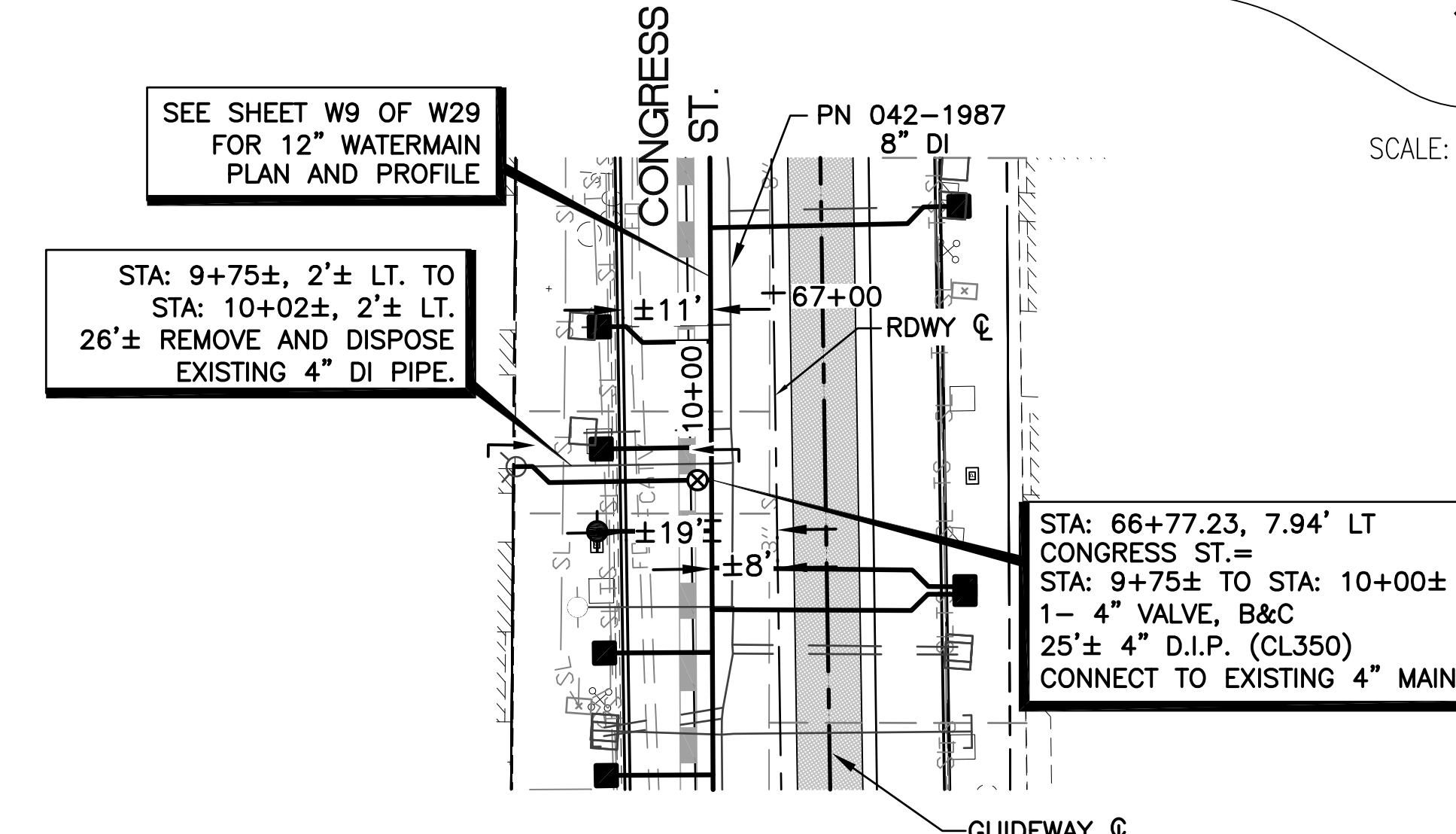
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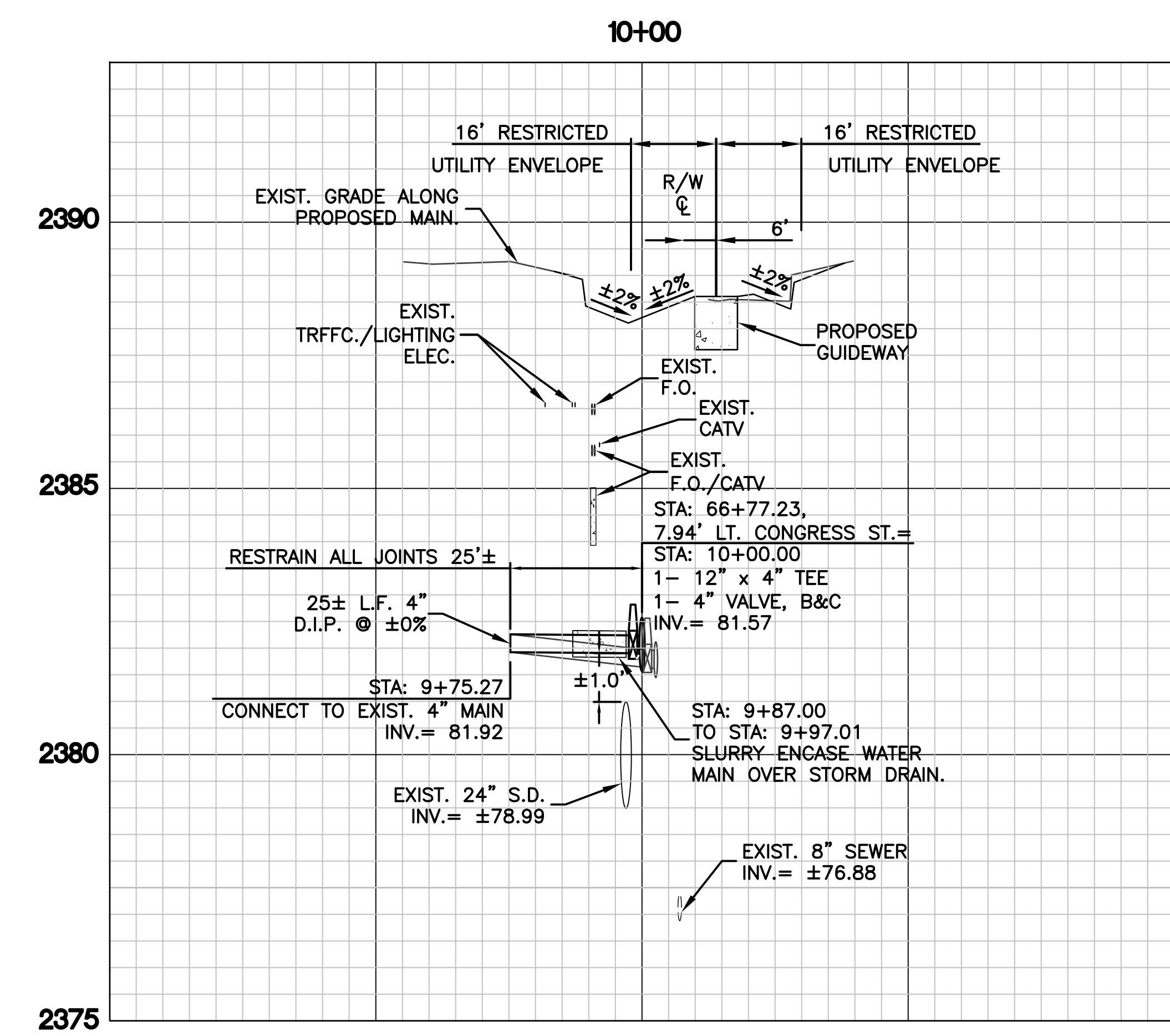
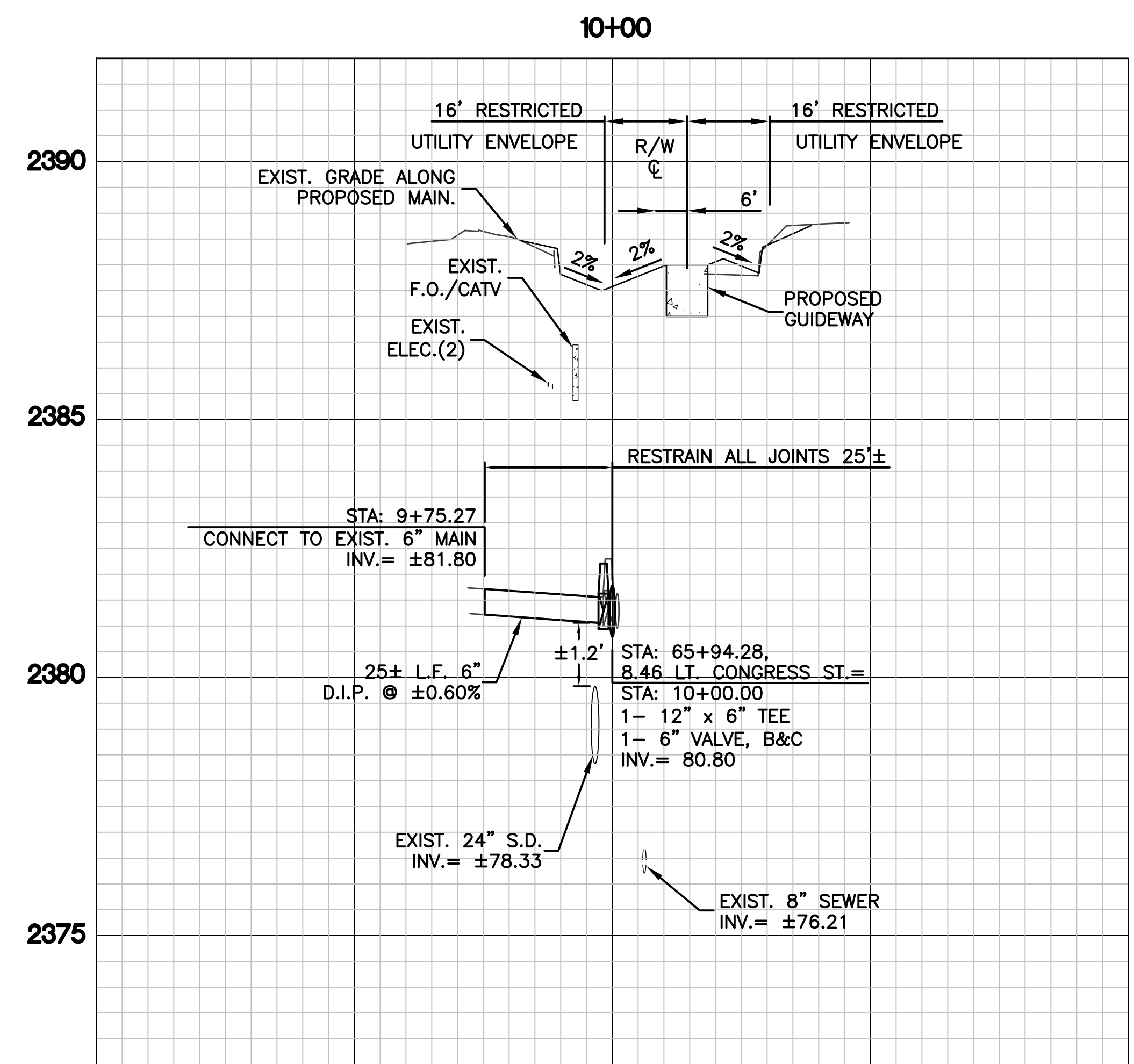
**65+94± (FS)**

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**66+77± (FS)**

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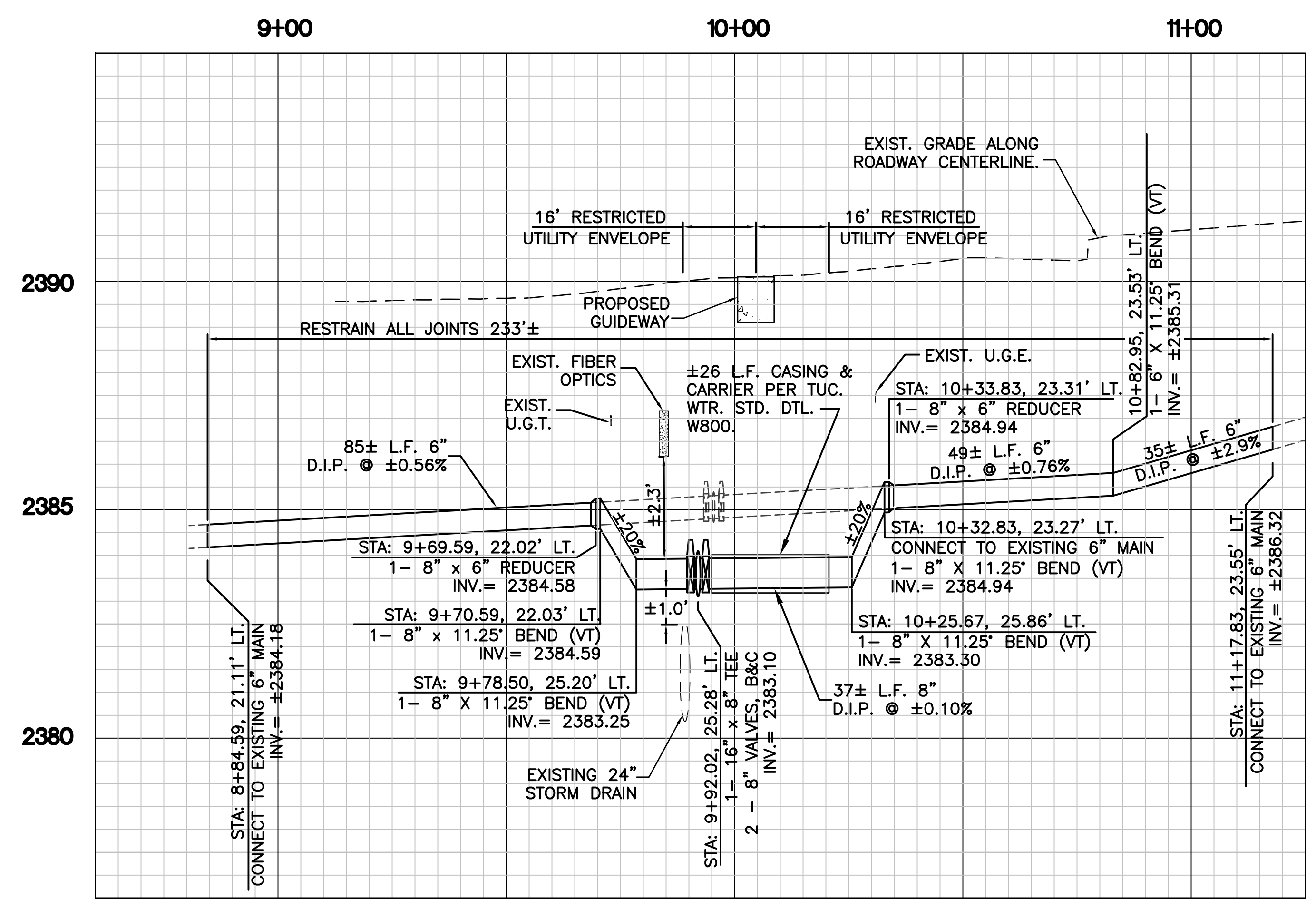
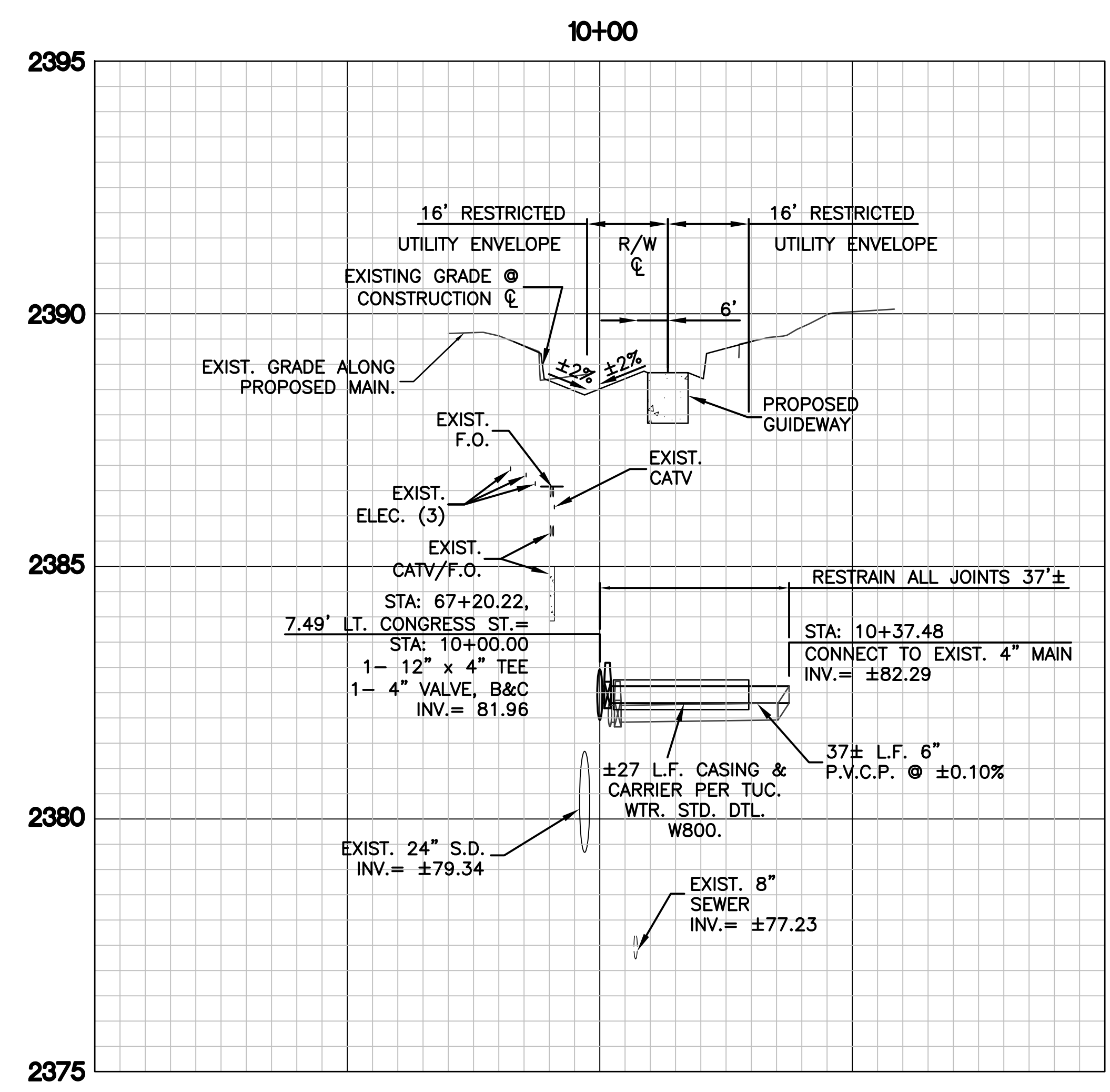
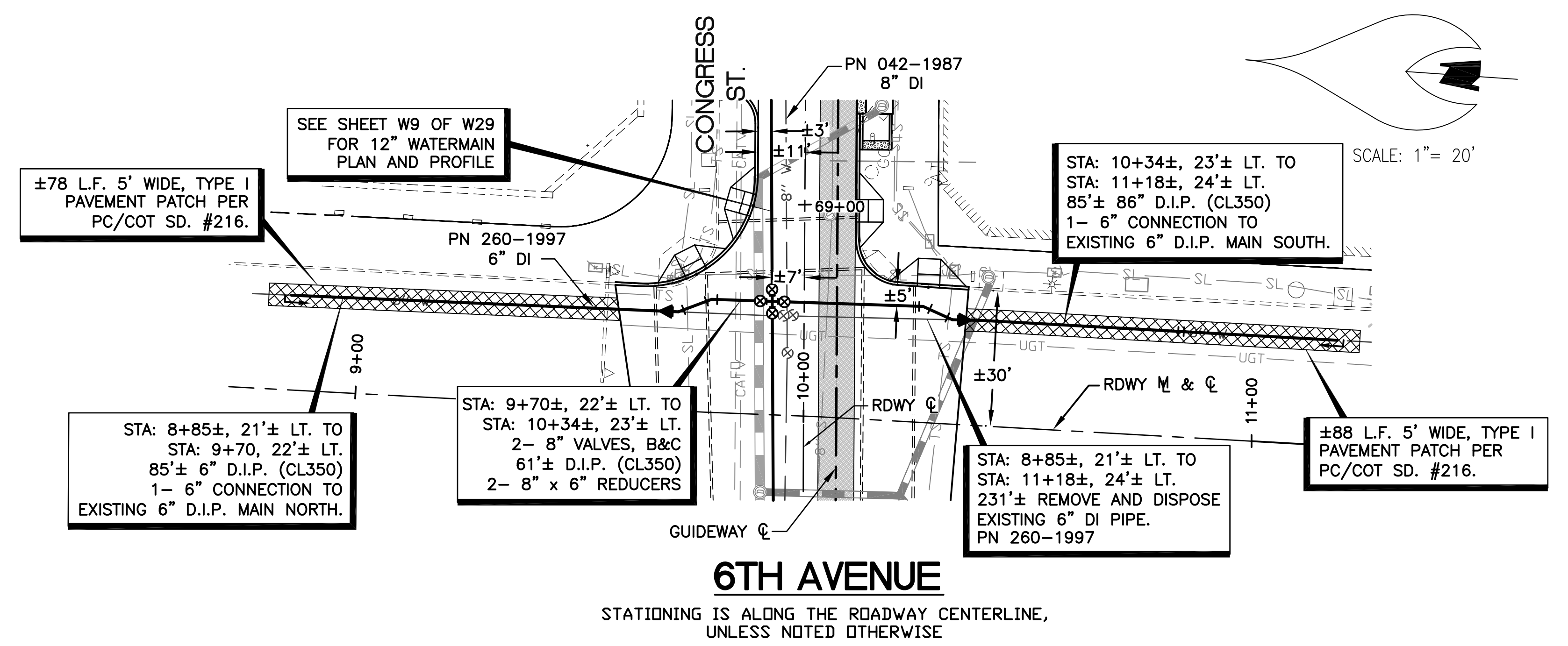
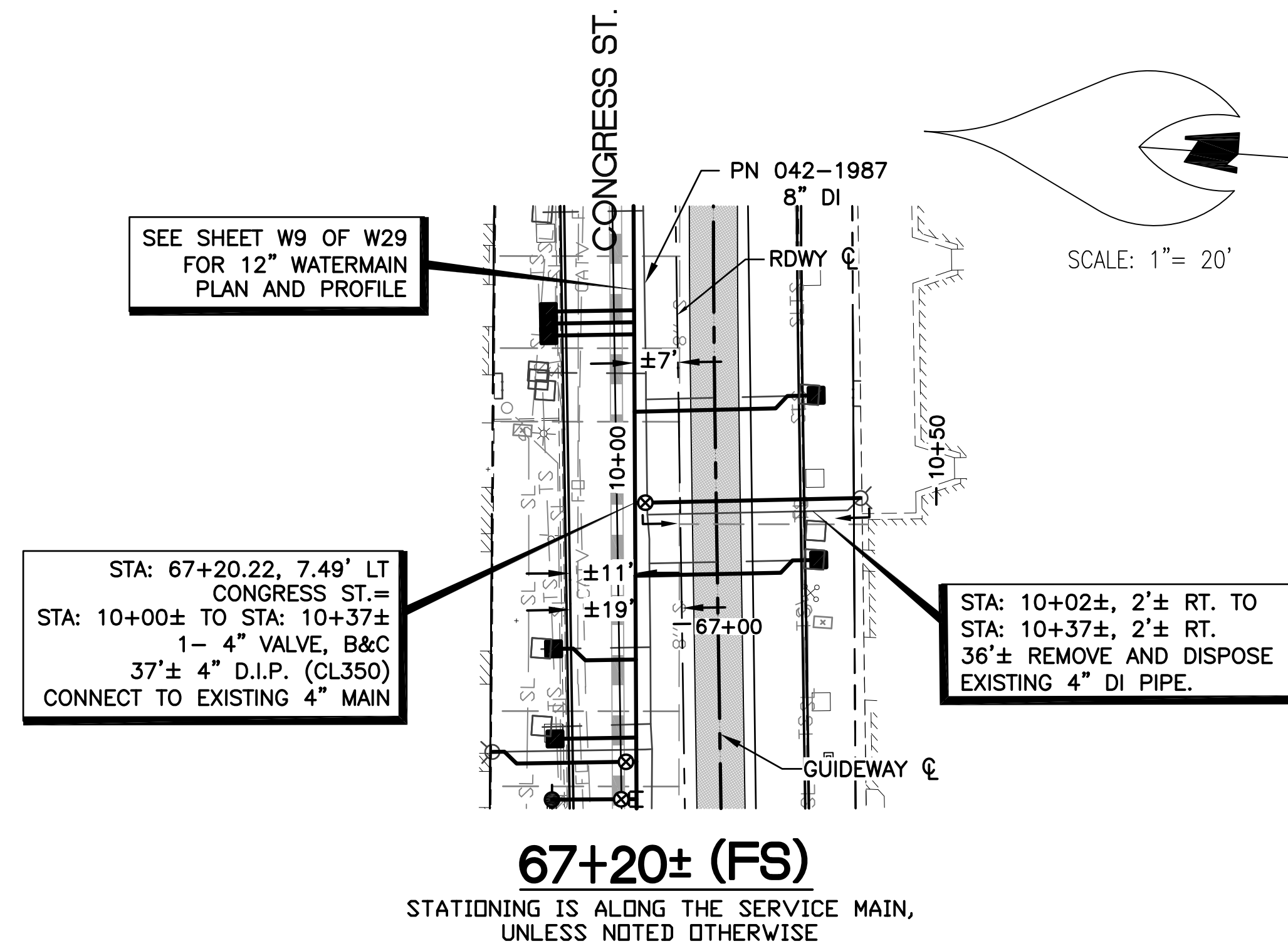
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**WATER PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W18 OF W29	173 OF 184
	CITY OF TUCSON	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTD107 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Mikes, Dong

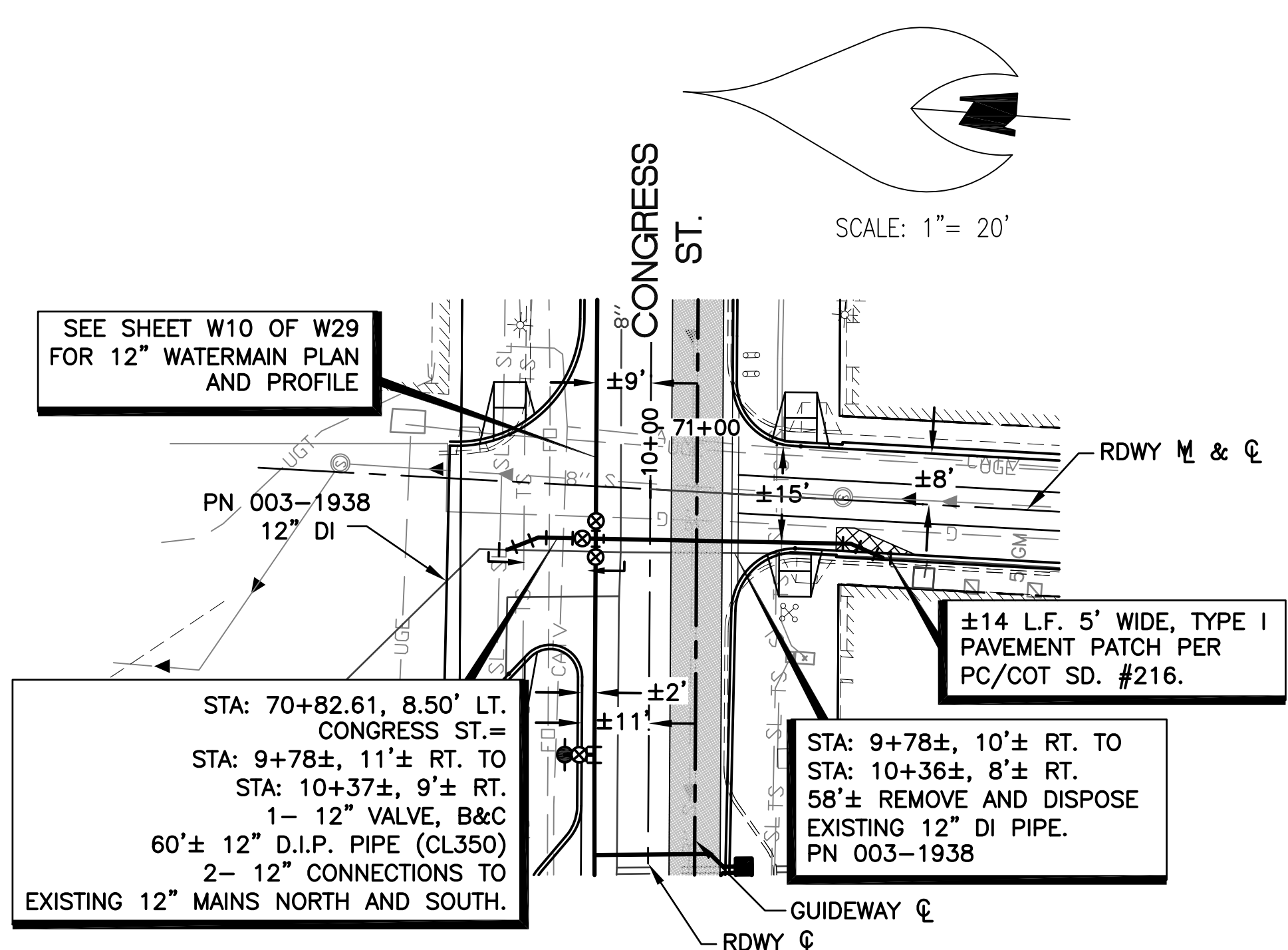


**WATER PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W19 OF W29	174 OF 184
	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTDT08 SCALE: 1"=20' PLAN NO. I-2008-035		

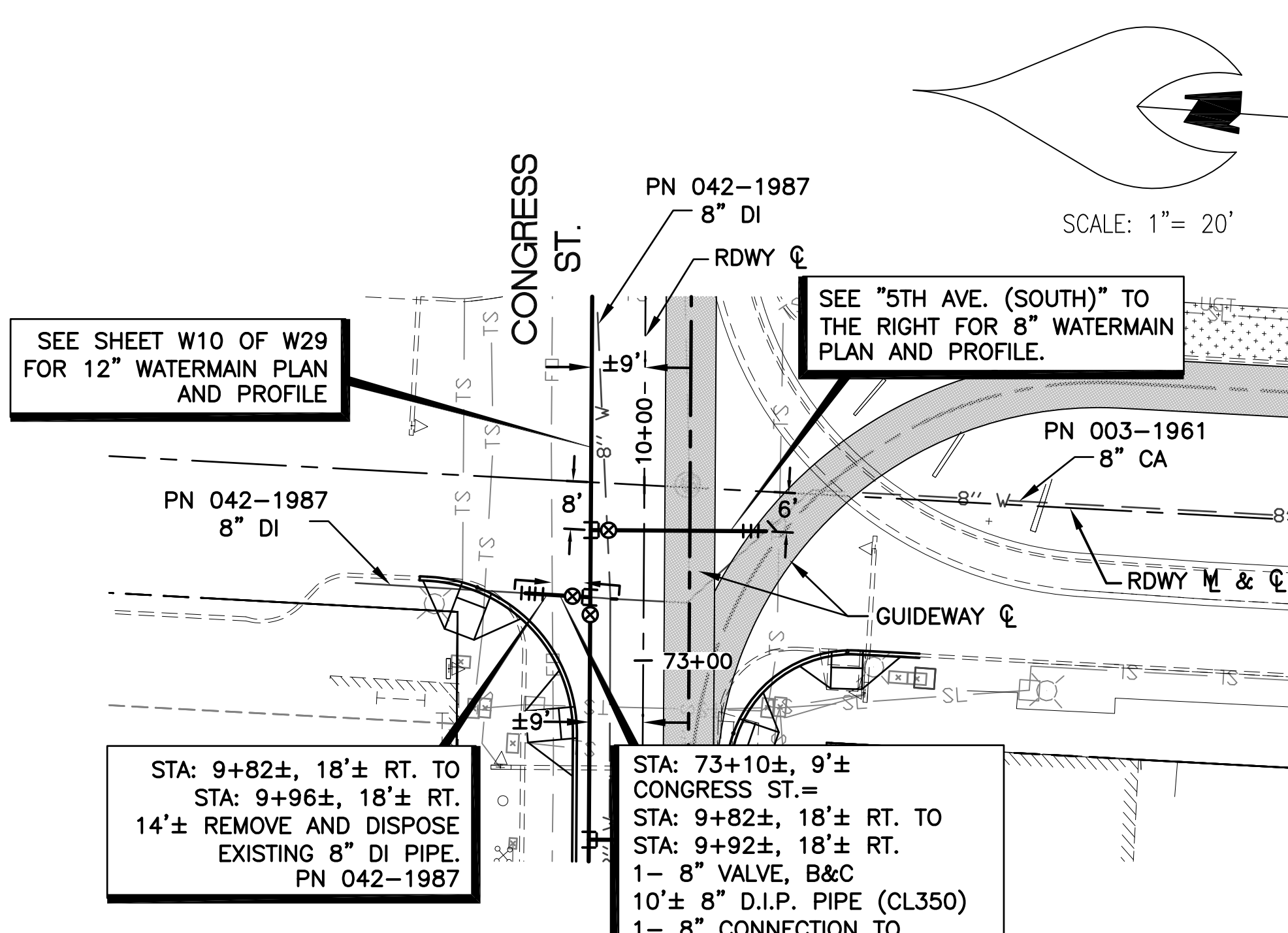
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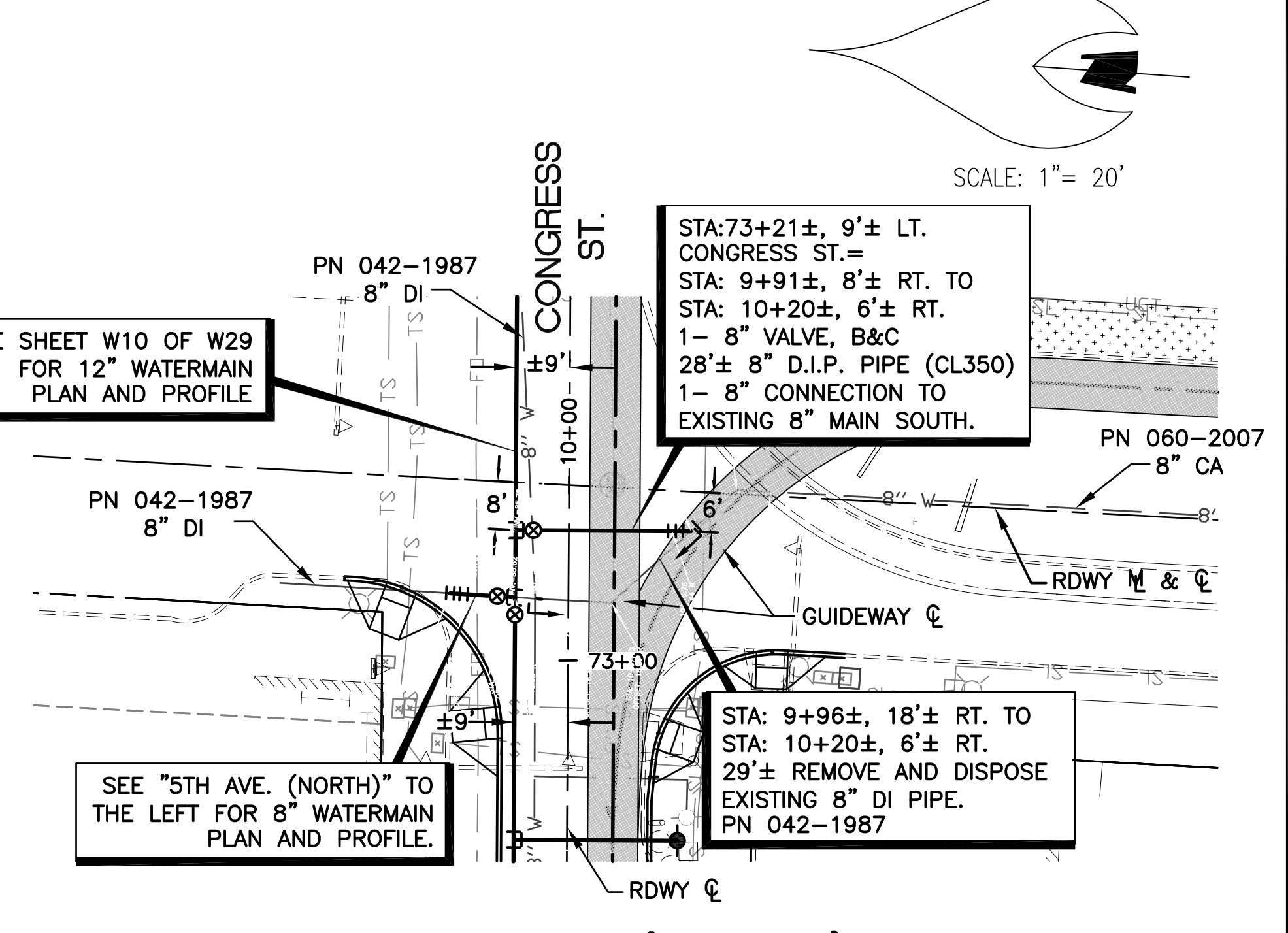
**ARIZONA AVENUE**

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



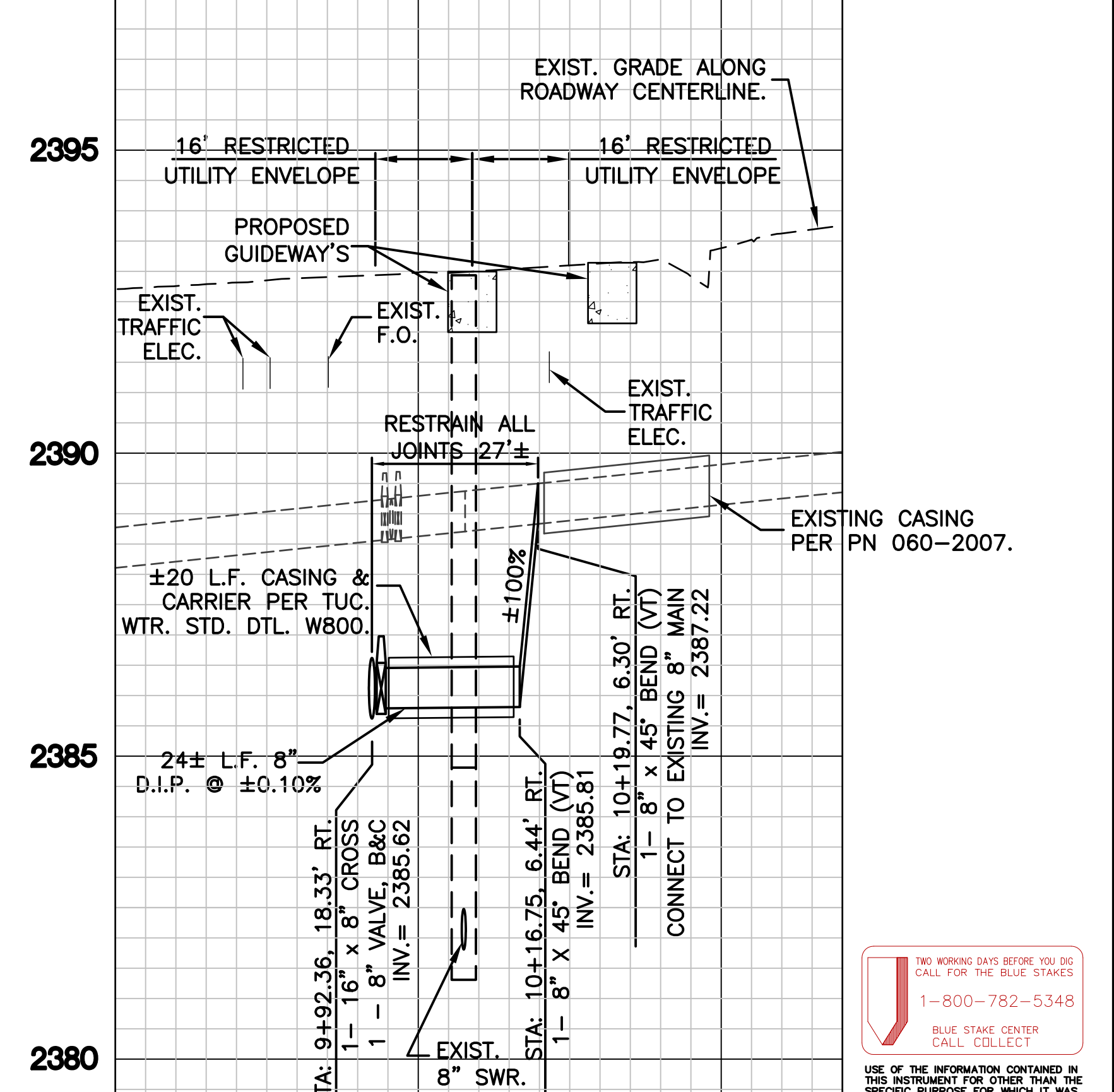
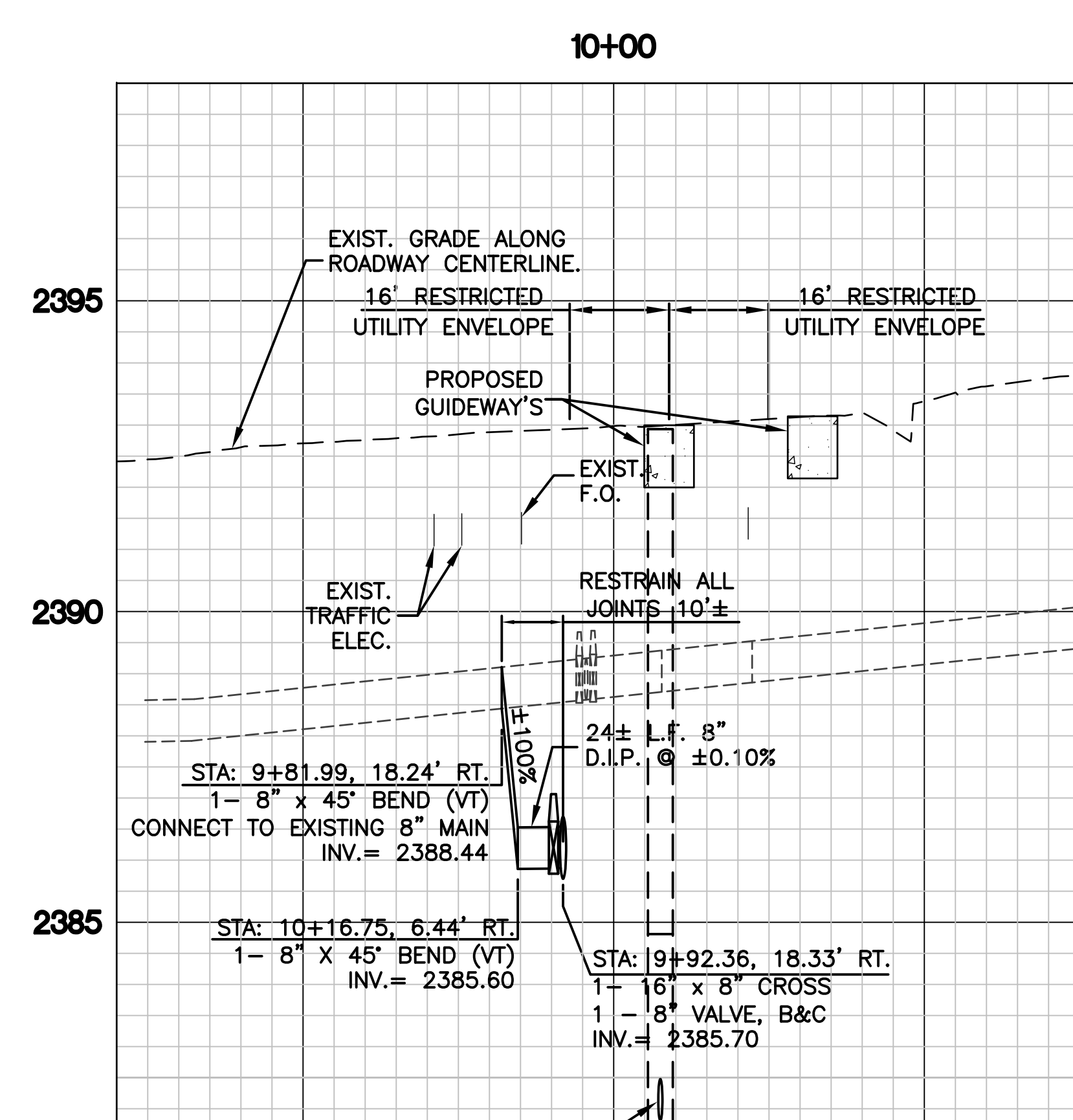
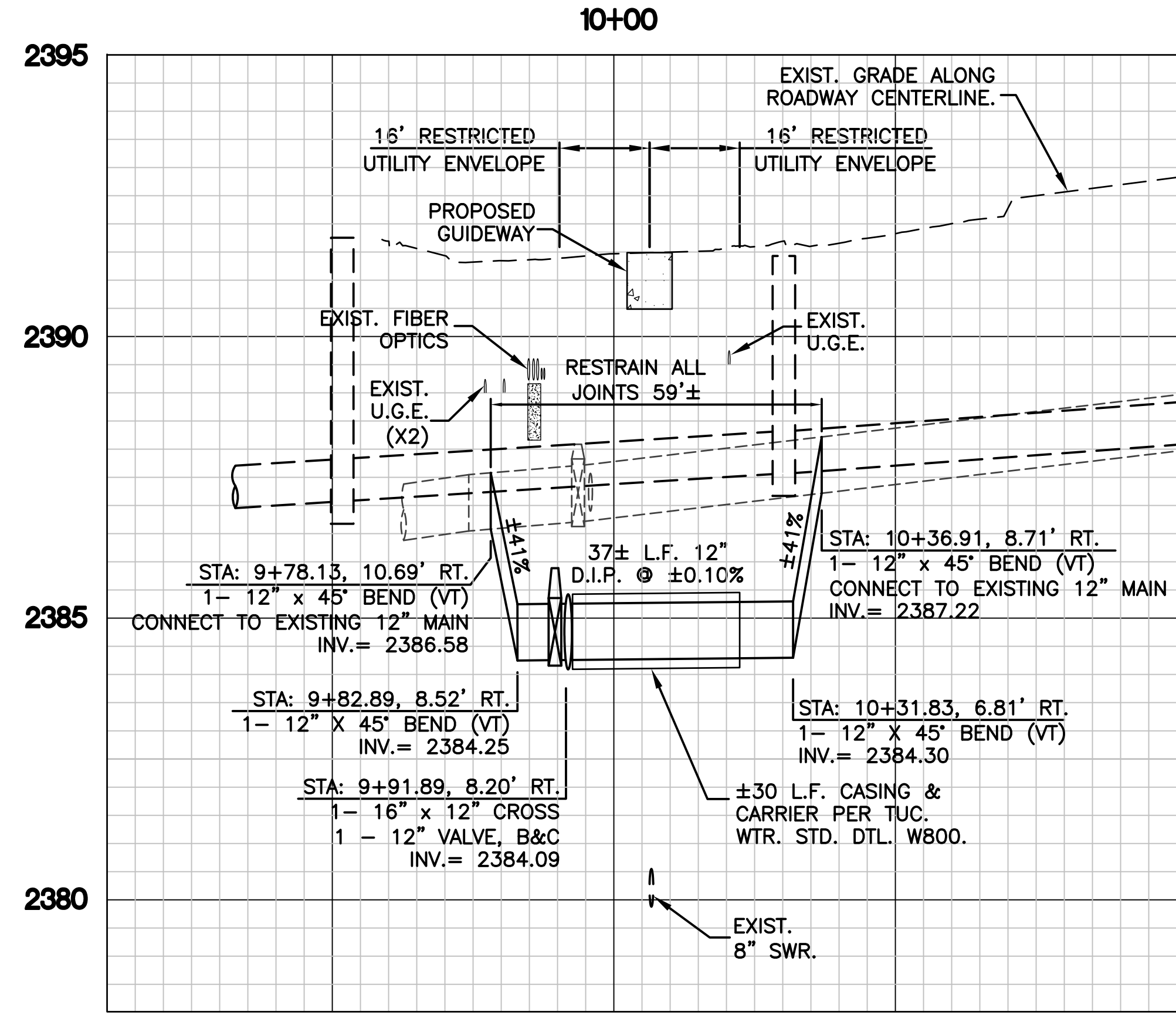
**5TH AVENUE (NORTH)**

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



**5TH AVENUE (SOUTH)**

STATIONING IS ALONG THE ROADWAY CENTERLINE, UNLESS NOTED OTHERWISE



**WATER PLAN**

CITY OF TUCSON WATER DEPARTMENT  
 DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
 CONGRESS STREET-GRANADA AVE TO 5TH AVE.

W20 OF 175  
 09 OF 184

CITY OF TUCSON

DRWN. BY T. LEACH  
 DSGN. BY B. HOSACK  
 CHKD. BY A. BATT

REF. CU-WTD09 SCALE: 1"=20'  
 PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Mikes, Doug

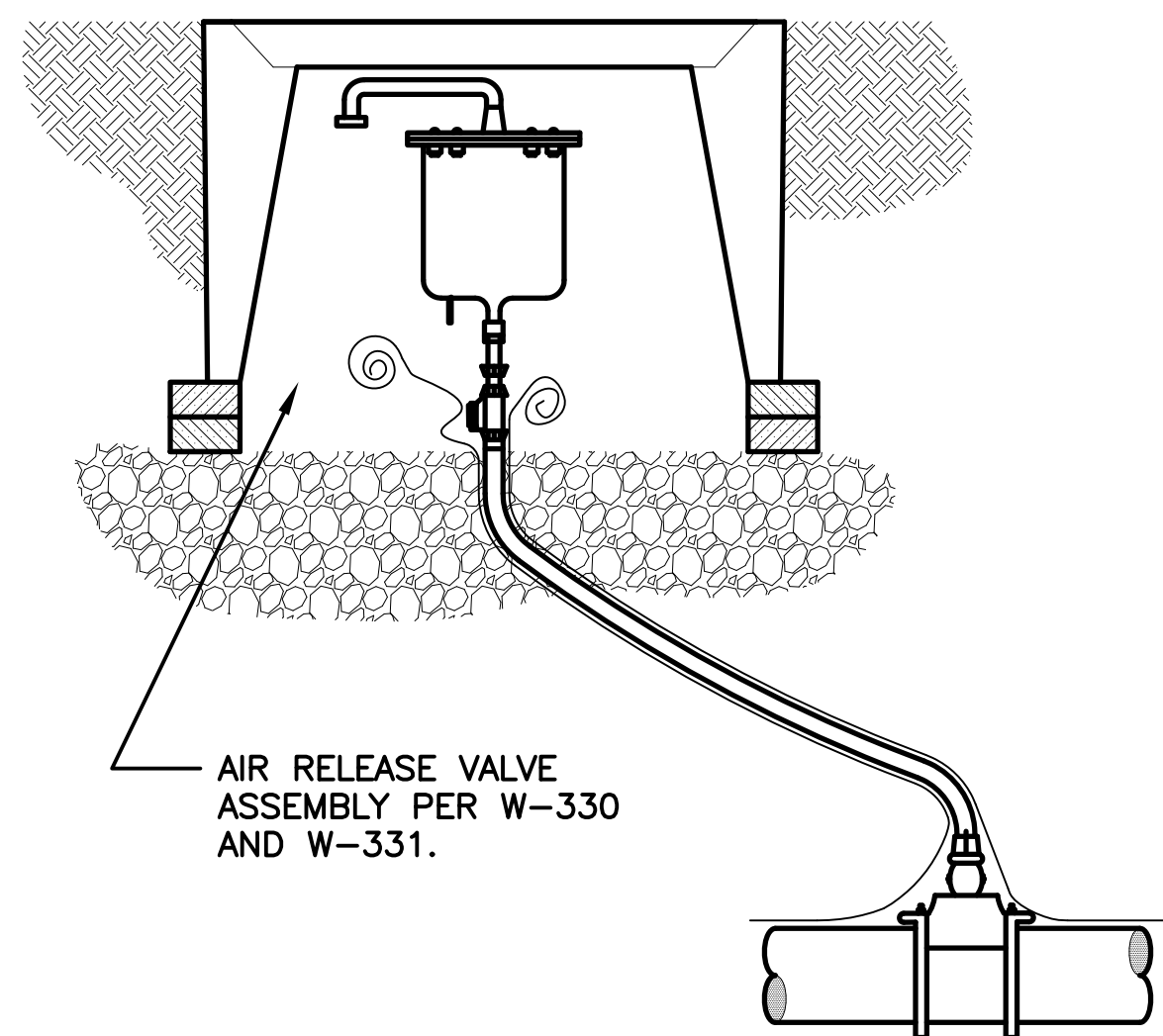
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**NOTES**

- ALL NEW WATER MAINS REQUIRE DETECTABLE LOCATOR TAPE PER W-115. IN ADDITION, A TRACER WIRE SHALL ALSO BE INSTALLED. THE TRACER WIRE SHALL BE UF, THWN, THW, OR RHW/RHH SOLID 12 GAUGE WIRE. THE TRACER WIRE SHALL BE LAID DIRECTLY ON TOP OF THE PIPE IN CONTINUOUS LENGTHS BETWEEN VALVES, AIR RELEASE VALVES (ARV), DRAIN VALVE ASSEMBLIES (D.V.A.) AND LATERAL CONNECTIONS TO EXISTING WATER MAINS.
- THE TRACER WIRE SHALL BE SECURED TO THE PIPE WITH ADHESIVE TAPE AT INTERVALS NOT GREATER THAN 10'. THE INTENT IS TO KEEP THE TRACER WIRE IN PLACE DURING BACK FILL, NOT TO PERMANENTLY FIX THE TAPE TO THE PIPE.
- THE TRACER WIRE SHALL BE SECURED TO VERTICAL COMPONENTS, I.E. VALVE RISERS, AIR RELEASE VALVE (ARV) LINES ETC., BY WRAPPING THE PIPE CIRCUMFERENCE WITH 10 MIL P.V.C. PIPE TAPE OR ZIP TIES WITH A TENSILE STRENGTH OF NOT LESS THAN 50 LBS. AT INTERVALS NOT GREATER THAN ONE FOOT (1').
- FOR D.I.P. WATER MAINS, TRACER WIRE SHALL BE ATTACHED TO THE PIPE OUTSIDE OF THE POLYETHYLENE ENCASUREMENT.
- THE CONTINUITY OF EACH SEGMENT OF TRACER WIRE INSTALLED SHALL BE VERIFIED BY THE CONTRACTOR. FINAL ACCEPTANCE OF THE PROJECT WILL NOT BE GRANTED UNTIL WRITTEN CERTIFICATION, SIGNED BY THE CONTRACTOR, IS RECEIVED BY THE CONSTRUCTION SECTION OF THE CITY OF TUCSON WATER DEPARTMENT.
- THE INSULATION ON TRACER WIRE INSTALLED ON POTABLE WATER MAINS SHALL BE COLORED BLUE. THE INSULATION ON TRACER WIRE INSTALLED ON RECLAIMED WATER LINES SHALL BE COLORED PURPLE.
- WHERE THE ENDS OF NEW TRACER WIRE TERMINATE BELOW GROUND, THE END OF THE NEW TRACER WIRE SHALL BE TAPED WITH TWO HALF LAPPED LAYERS OF POLYETHYLENE OR POLYVINYL CHLORIDE TAPE (ELECTRICIANS TAPE).
- METALLIC TAGS SHALL BE ONE INCH (1") WIDE BY A MINIMUM OF ONE AND ONE HALF INCHES LONG (1 1/2") AND A MINIMUM OF ONE SIXTEENTH INCH (1/16") THICK WITH A ONE EIGHTH INCH (1/8") HOLE AT ONE CORNER OF THE TAG. IT SHALL BE ATTACHED TO THE TRACER WIRE WITH TWELVE GAUGE (12 GA.) WIRE. THE DIRECTION SHALL BE STAMPED WITH A HALF INCH (1/2") LETTER MARKING PUNCH.

**1 TRACER WIRE - NOTES**  
NOT TO SCALE



- NOTES:**
- THE TRACER WIRE SHALL BE ATTACHED TO THE AIR RELEASE LINE WITH TAPE OR ZIP TIES AT A MAXIMUM OF 1' INTERVALS. A 3' COIL OF WIRE SHALL BE LEFT IN THE METER BOX FOR EACH TRACER WIRE INSTALLED.
  - TRACER WIRE SHALL BE LOCATED ON THE SAME SIDE OF THE METER BOX AS THE PIPE IT IS ATTACHED TO. THE COILED TRACER WIRE SHALL BE PERMANENTLY LABELED WITH A METALLIC TAG STATING THE DIRECTION (I.E. NORTH, EAST, ETC.) OF THE PIPE IT IS ATTACHED TO.
  - THIS DETAIL APPLIES TO AIR RELEASE VALVES IN W-330 AND W-331.

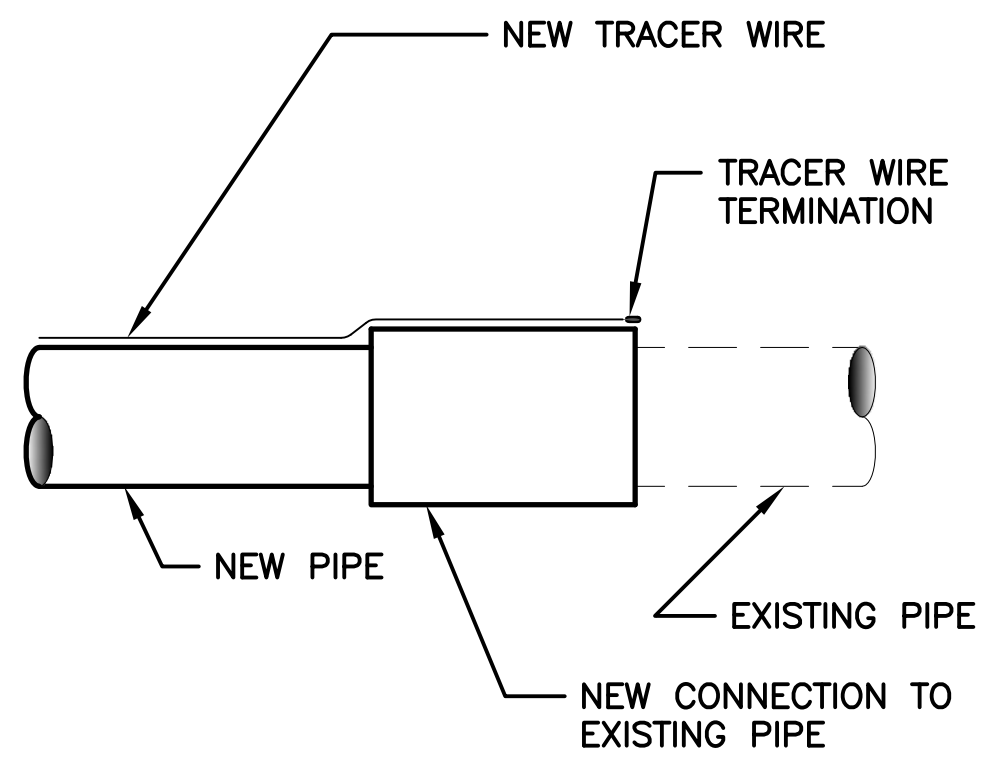
**4 TRACER WIRE - AIR RELEASE VALVES**  
NOT TO SCALE



SPICES IN THE TRACER WIRE SHALL BE PERFORMED AS FOLLOWS:

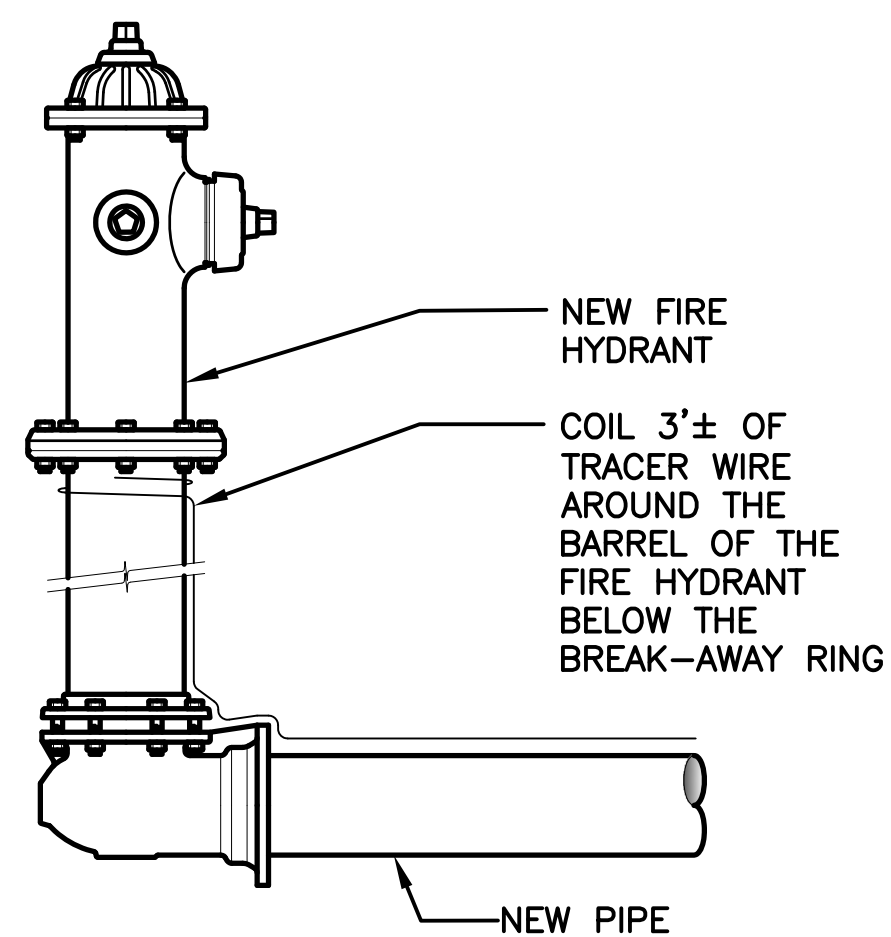
- THE INSULATION SHALL BE STRIPPED FROM THE WIRE EXPOSING ENOUGH BARE WIRE TO EXTEND APPROXIMATELY 1/2" BEYOND THE END OF THE COPPER SLEEVE.
- THE COPPER SLEEVE SHALL BE OF THE APPROPRIATE SIZE FOR 12 GAUGE WIRE AND INTENDED FOR THIS PURPOSE.
- CRIMP THE SLEEVE ON THE WIRE WITH A CRIMPING TOOL A MINIMUM OF 4 TIMES.
- AFTER CRIMPING THE COPPER SLEEVE, BEND THE WIRE BACK OVER THE SLEEVE.
- CLEAN AND DRY THE EXPOSED SECTION OF THE WIRE. WRAP THE CONNECTION WITH TWO HALF-LAPPED LAYERS OF POLYETHYLENE OR POLYVINYL CHLORIDE TAPE (ELECTRICIANS TAPE).

**2 TRACER WIRE - SPLICE DETAIL**  
NOT TO SCALE



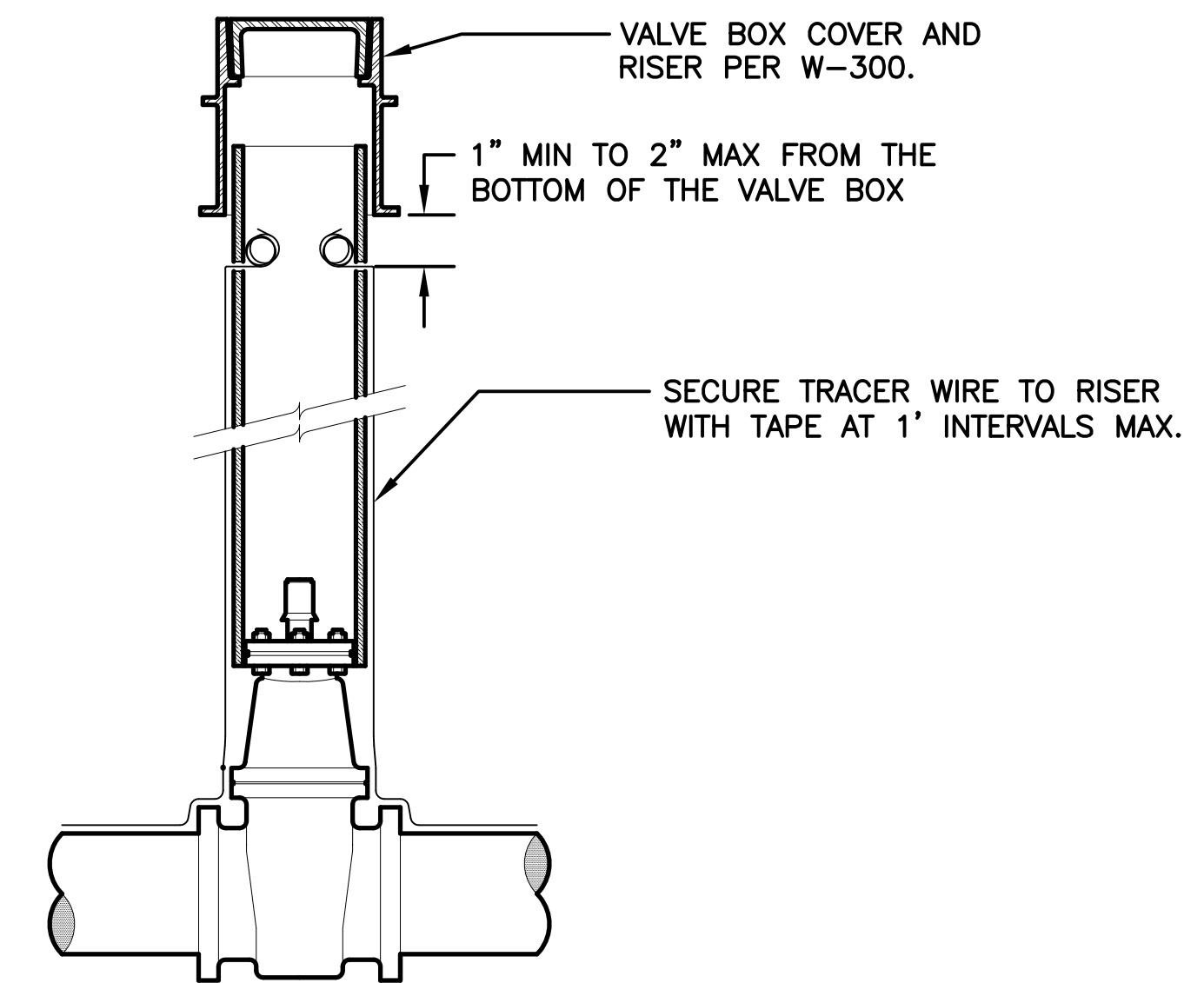
- NOTES:**
- AT CONNECTIONS TO EXISTING PIPE WITH NO TRACER WIRE, THE NEW TRACER WIRE SHALL BE TERMINATED AT THE END OF THE CONNECTION DEVICE.

**5 TRACER WIRE - EXIST WATER MAIN**  
NOT TO SCALE



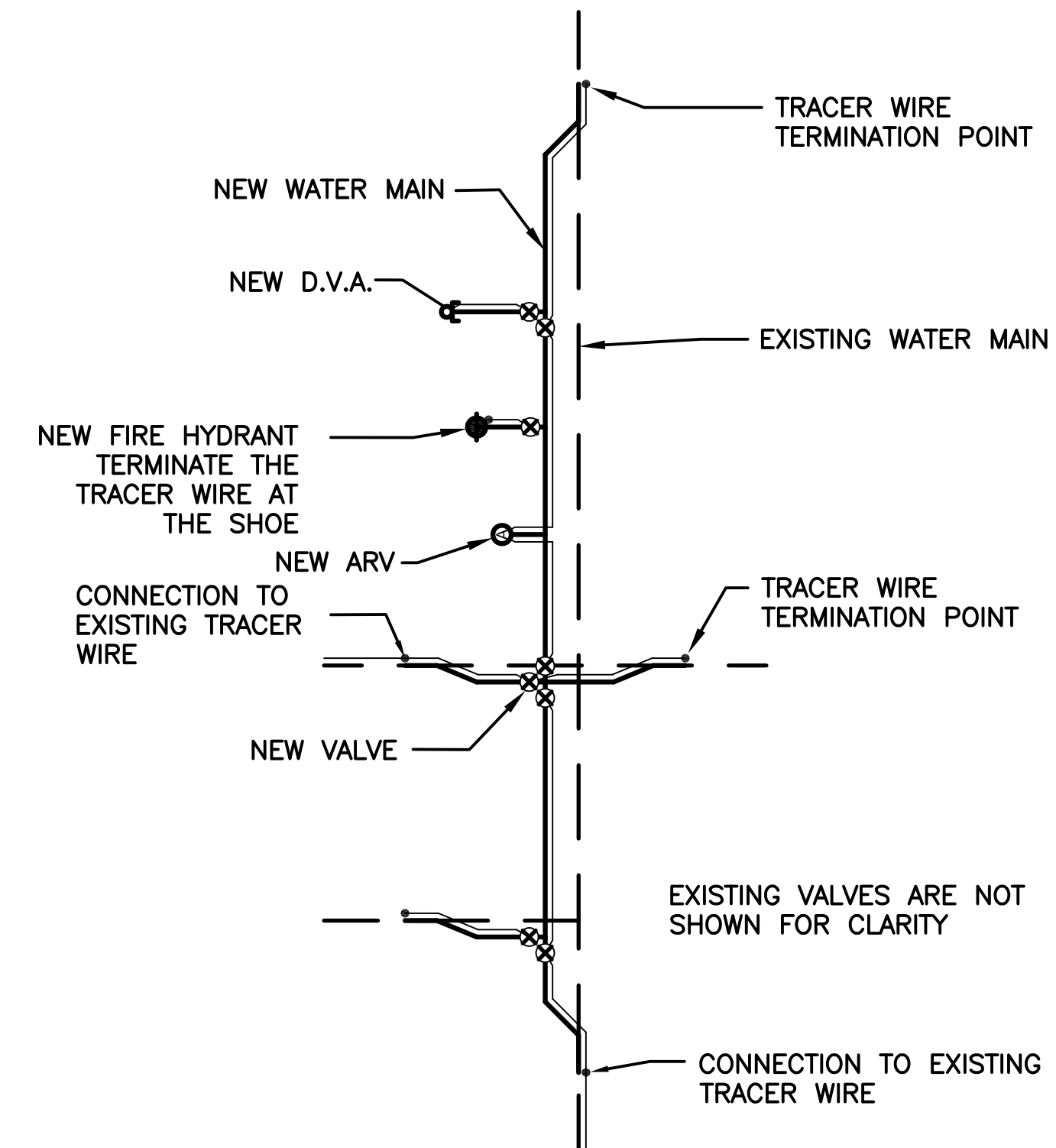
- NOTES:**
- THE TRACER WIRE SHALL TERMINATE ABOVE GRADE BELOW THE BREAK-AWAY RING.

**6 TRACER WIRE - FIRE HYDRANT**  
NOT TO SCALE



- NOTES:**
- THREAD TRACER WIRES THROUGH 1/4" HOLES DRILLED IN THE RISER PIPE 2" TO 4" BELOW THE VALVE BOX.
  - A KNOT SHALL BE TIED IN THE TRACER WIRE INSIDE THE RISER PIPE AND A 3' COIL OF WIRE LEFT NEATLY INSIDE THE RISER.
  - THE TRACER WIRE SHALL ENTER THE RISER PIPE ON THE SAME SIDE AS THE WATER PIPE TO BE TRACED.

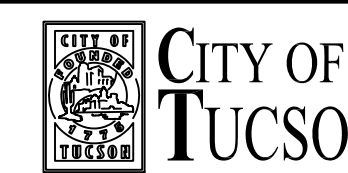
**3 TRACER WIRE - IN LINE VALVES**  
NOT TO SCALE



**8 TRACER WIRE - SCENARIOS**  
NOT TO SCALE

**WATER PLAN**

CITY OF TUCSON WATER DEPARTMENT  
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET-GRANADA AVE. TO 5TH AVE.



DRWN. BY T. LEACH  
DSGN. BY B. HOSACK  
CHKD. BY A. BATT

REF. CU-WDT10 SCALE:  
PLAN NO. I-2008-035

W21 176  
OF OF  
W29 184

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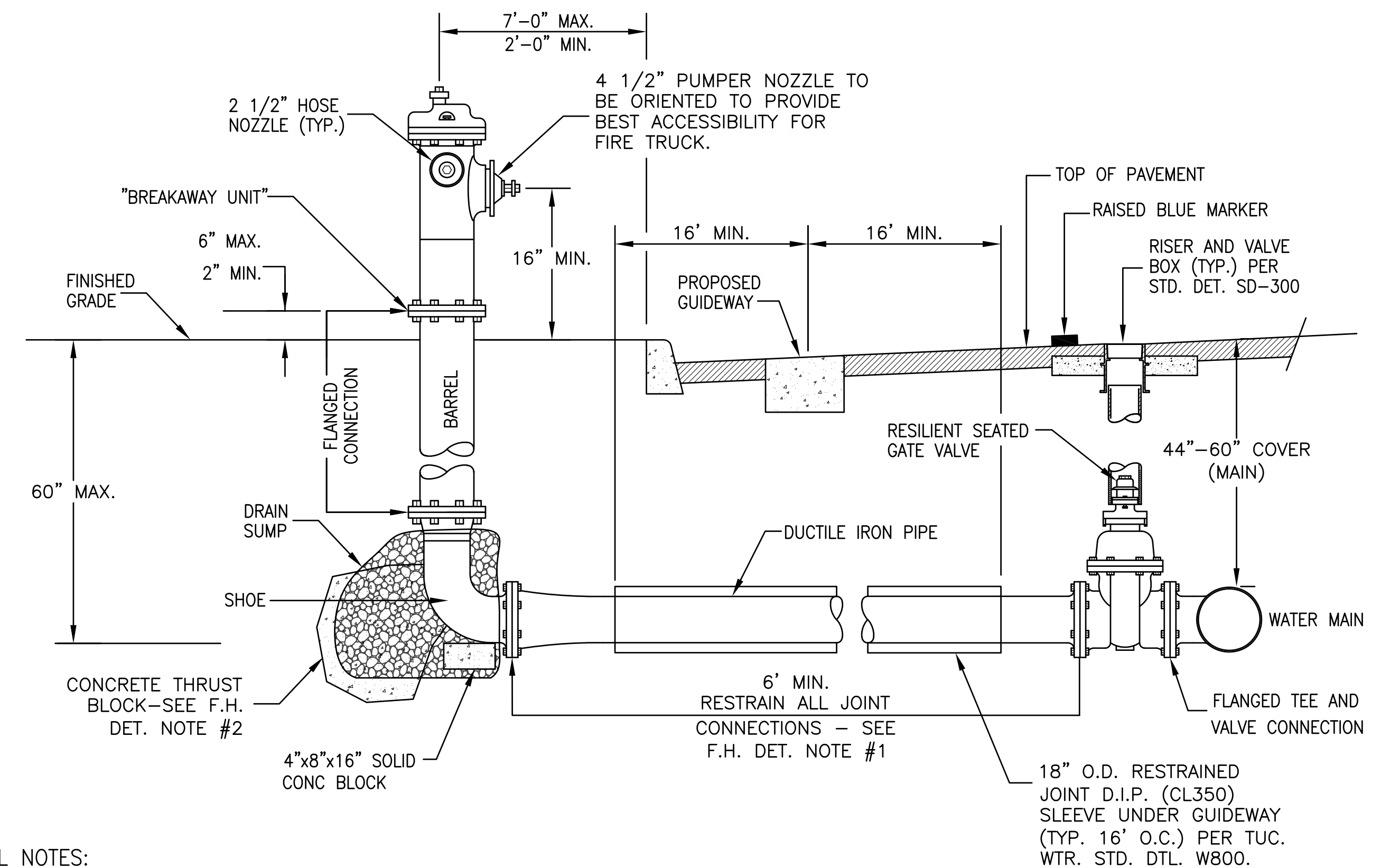
NO.	DATE	REVISION	BY	CHKD.	APPR.
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SERVICE WORK					
LOCATION BY SHT. #	CODE	ADDRESS		PIPE SIZE & QUANT. (IN FEET ±)	
		METER NUMBER & SIZE		1"	1½"
SHEET W5	1	300 WEST CONGRESS ST			31
		D.A.C.	2"		
SHEET W6	2	130 WEST CONGRESS ST			40
		29717977	2"		
	3	130 WEST CONGRESS ST			40
		35080255	2"		
4	130 WEST CONGRESS ST			25	
	42406398	2"			
	130 WEST CONGRESS ST			45	
5	44228309	2"			
	6	110 WEST CONGRESS ST	49		
18885305		5/8"			
SHEET W7	7	STA 55+58		45	
		D.A.C.	5/8"		
	8	STA 55+70		25	
		D.A.C.	5/8"		
	9	STA 55+72		22	
		06097432	5/8"		
	10	STA 58+16		18	
		D.A.C.	1"		
	11	STA 58+36		16	
		D.A.C.	5/8"		
12	33 WEST CONGRESS ST		34		
	43852662	5/8"			
13	STA 58+93		29		
	D.A.C.	1½"			
14	17 WEST CONGRESS ST		31		
	D.A.C.	2"			
15	STA 59+32		22		
	26387599	5/8"			
16	STA 60+93		24		
	D.A.C.	5/8"			
17	15 EAST CONGRESS ST		22		
	87689576	5/8"			
18	21 EAST CONGRESS ST		23		
	42333197	1½"			
19	25 EAST CONGRESS ST		16		
	34307850	5/8"			
20	61 EAST CONGRESS ST		21		
	24865003	5/8"			
21	61 EAST CONGRESS ST		21		
	D.A.C.	5/8"			
22	61 EAST CONGRESS ST		21		
	D.A.C.	5/8"			
23	61 EAST CONGRESS ST		21		
	D.A.C.	5/8"			
24	70 EAST CONGRESS ST		31		
	D.A.C.	5/8"			
25	72 EAST CONGRESS ST		31		
	30598827	5/8"			
26	STA 63+64		31		
	D.A.C.	1"			
27	36 EAST CONGRESS ST		35		
	D.A.C.	1"			
28	STA 62+88		32		
	20600482	1½"			
29	56 EAST CONGRESS ST		33		
	25217037	1½"			
30	20 EAST CONGRESS ST		34		
	43852576	1½"			
31	97 EAST CONGRESS ST		12		
	D.A.C.	2"			
SHEET W9	32	STA 65+88			
		41787555	NO METER		
	33	117 EAST CONGRESS ST		12	
		88473901	5/8"		

SERVICE WORK					
LOCATION BY SHT. #	CODE	ADDRESS		PIPE SIZE & QUANT. (IN FEET ±)	
		METER NUMBER & SIZE		1"	1½"
SHEET W9	34	117 EAST CONGRESS ST		12	
		D.A.C.	5/8"		
	35	STA 66+83		15	
		88489594	5/8"		
	36	125 EAST CONGRESS ST		15	
		06430529	5/8"		
	37	127 EAST CONGRESS ST		15	
		18885273	5/8"		
	38	135 EAST CONGRESS ST		15	
		89344893	5/8"		
39	135 EAST CONGRESS ST		15		
	88489593	5/8"			
40	145 EAST CONGRESS ST		14		
	36823324	5/8"			
41	145 WEST CONGRESS ST				
	D.A.C.	NO METER			
42	204 EAST CONGRESS ST		29		
	29982334	5/8"			
43	200 EAST CONGRESS ST		29		
	87694543	5/8"			
44	254 EAST CONGRESS ST		28		
	D.A.C.	5/8"			
45	STA 67+38		28		
	89343477	5/8"			
46	128 EAST CONGRESS ST		28		
	D.A.C.	5/8"			
47	STA 66+57		30		
	88760065	5/8"			
48	STA 66+55		29		
	08024378	5/8"			
49	110 EAST CONGRESS ST		29		
	0703848	5/8"			
50	98 EAST CONGRESS ST		29		
	30783712	5/8"			
51	STA 69+60		35		
	D.A.C.	5/8"			
52	STA 69+62		35		
	D.A.C.	5/8"			
53	STA 69+63		34		
	D.A.C.	5/8"			
54	270 EAST CONGRESS ST		29		
	37561341	5/8"			
55	STA 71+49		30		
	28537397	1"			
56	STA 71+48		30		
	D.A.C.	5/8"			
57	STA 70+32		28		
	87694546	5/8"			
58	222 EAST CONGRESS ST		35		
	87694545	5/8"			
59	220 EAST CONGRESS ST		28		
	88488114	5/8"			
60	216 EAST CONGRESS ST		28		
	29512289	5/8"			
61	210 EAST CONGRESS ST		28		
	13887286	5/8"			

SERVICE WORK					
LOCATION BY SHT. #	CODE	ADDRESS		PIPE SIZE & QUANT. (IN FEET ±)	
		METER NUMBER & SIZE		1"	1½"
SHEET W11	62	37 SOUTH SCOTT AVE.		27	
		STA:9+93±, 9'± RT.	5/8"		
63	63	110 E. CONGRESS ST.		30	
		STA:9+18±, 10'± RT.	5/8"		
64	64	27 NORTH SCOTT AVE.		34	
		STA:9+15±, 10'± RT.	5/8"		
65	65	97 E. CONGRESS ST.		9	
		STA:7+09±, 3'± RT.	5/8"		
66	66	63 E. CONGRESS ST.		9	
		STA:6+62±, 3'± RT.	5/8"		
67	67	63 E. CONGRESS ST.		9	
		STA:6+60±, 3'± RT.	5/8"		
68	68	50 NORTH SCOTT AVE.		15	
		STA:5+94±, 2'± RT.	5/8"		
69	69	27 NORTH SCOTT AVE.		15	
		STA:5+49±, 2'± RT.	5/8"		
70	70	27 NORTH SCOTT AVE.		15	
		STA:5+48±, 2'± RT.	5/8"		
71	71	31 NORTH SCOTT AVE.		12	
		STA:5+20±, 1'± RT.	5/8"		
72	72	31 NORTH SCOTT AVE.		12	
		STA:5+21±, 1'± RT.	5/8"		



F.H. DETAIL NOTES:

- ALL MECHANICALLY RESTRAINED JOINT CONNECTIONS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 1406 AND SHALL EXTEND FROM WATER MAIN TEE TO HYDRANT SHOE.
- CONCRETE THRUST BLOCK PER STD. DET. 610 SHALL ONLY BE USED FOR EXTENDING EXISTING PIPE, WHICH IS NOT MECHANICALLY RESTRAINED, BETWEEN THE SHOE AND THE MAIN TEE AND APPROVED BY ENGINEER.

**FIRE HYDRANT MOD. DETAIL**

MODIFIED TUCSON WATER S.D. W-500 WITH N.T.S. SLEEVE UNDER PROPOSED GUIDEWAY.

**WATER PLANS**

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 Mikes, Doug



SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY INDICATED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THE INFORMATION WITHOUT THEIR WRITTEN CONSENT.

**PRELIMINARY**  
03.10.09  
NOT FOR CONSTRUCTION  
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CITY OF TUCSON WATER DEPARTMENT		W22	177
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT		OF	
CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W29	184
CITY OF TUCSON		DRWN. BY	T. LEACH
CITY OF TUCSON		DSGN. BY	B. HOSACK
CITY OF TUCSON		CHKD. BY	A. BATT
CITY OF TUCSON		REF.	CU-WDT11 SCALE:
CITY OF TUCSON		PLAN NO.	I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

**TEST STATION SCHEDULE:**

TS NO.	Station	FITTING CODE	Q-ty of 32 lbs MgAnodes	Remarks
1	48+35	16"x8" Cross, 12" Reducer, 2x16" valves DI - 200'	5	
2	50+48		5	
3	50+96	12"x6" Tee, 6" Valve, 20' DIP, FH	2	
4	53+79	12"x6" Tee, 6" Valve, 20' DIP, FH	2	
5	56+82	12"x8" Cross, 12" Valve, 6" Valve	2	
6	57+24	DI - 850'	5	
7	59+00	DI - 33'	5	
	60+19	DI - 33'		
	60+54	12"x12" Cross, 2x12" Valve		
8	60+00	DI - 34	5	
	61+30	DI - 34		
	61+64			
9	62+18	12"x6" Tee, 6" Valve, 16" DIP, FH	5	
10	64+00		5	
11	64+34	12"x6" Tee, 6" Valve, 33' DIP, FH	5	
	64+59	DI - 81		
	65+40	12"x6" Cross, 12" Valve, 6" Valve		
12	66+00		5	
13	66+63	12"x6" Tee, 6" Valve, 15' DIP, FH	2	
14	68+03	12"x6" Tee, 6" Valve, 22' DIP, FH	2	
15	68+78	12"x6" Tee, 12" Valve, 6" Valve	2	
16	70+49	12"x6" Tee, 6" Valve, 6' DIP, FH	2	
17	70+73	DI - 35'	2	
18	71+08	12"x12" Cross, 3x12" Valve	2	
19	72+71	12"x6" Tee, 6" Valve, 25' DIP, FH	2	
20	73+10	12"x8" Valve, 12" Valve, 8" Valve	2	
21	73+79	Two elbows	2	
22	9+66	2x8" Valves	2	Church Ave
23	10+45	DI - 79'	2	
		12"x6" Tee, 6" Valve		
24	9+78	2x12" Valves	2	Stone Ave
25	10+40	DI - 62'	2	
		2x6" Valves		
26	7+40	2x6" Valves	2	Scot Ave
27	8+25	DI - 85'	2	
28	9+71	2x6" Valves	2	6th Ave
29	10+32	DI - 62'	2	
30	9+78	12" Valve	2	Arizona Ave
31	10+36	DI - 58'	2	

**GENERAL NOTES:**

**LEGEND:**



CATHODIC PROTECTION TEST STATION




DUCTILE IRON PIPE

TWO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

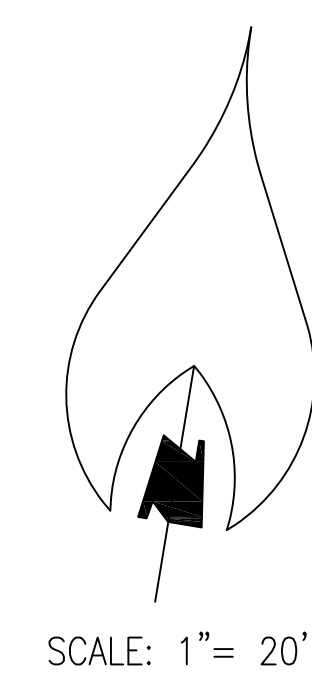
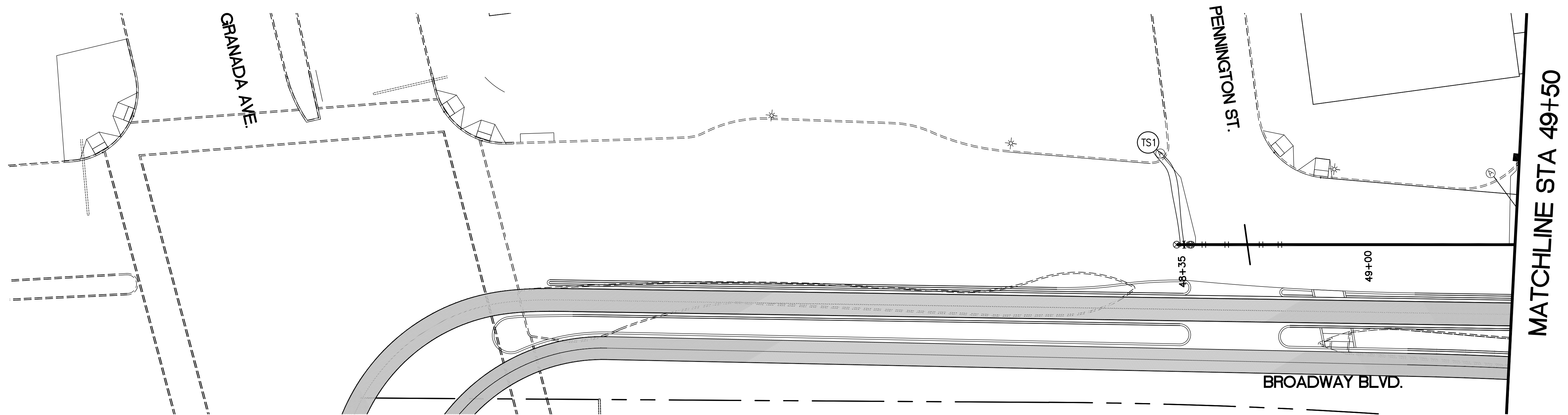
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**TITLE SHEET**

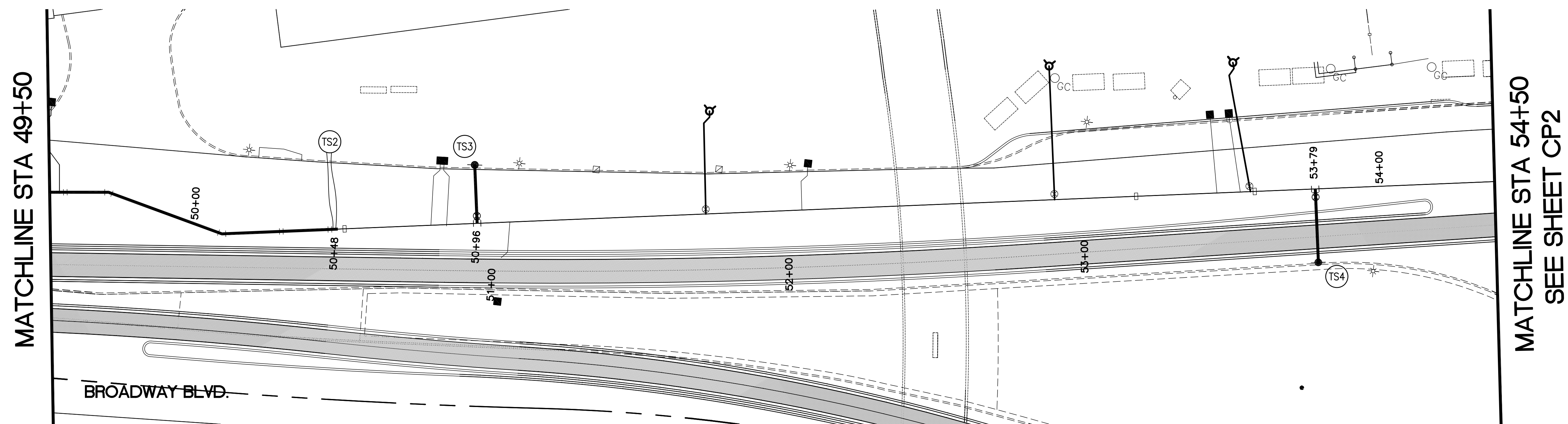
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	 CITY OF TUCSON	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTCP01 PLAN NO. I-2008-035	SCALE: 1"=20' I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

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 Mikes, Doug



SCALE: 1" = 20'



**CONGRESS STREET**  
STATIONING IS ALONG THE ROADWAY CENTERLINE,  
UNLESS NOTED OTHERWISE

**J** TWO WORKING DAYS BEFORE YOU DIG  
CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY STANTEC CONSULTING AND STANTEC CONSULTING SHALL HAVE NO LIABILITY TO ANY USER OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

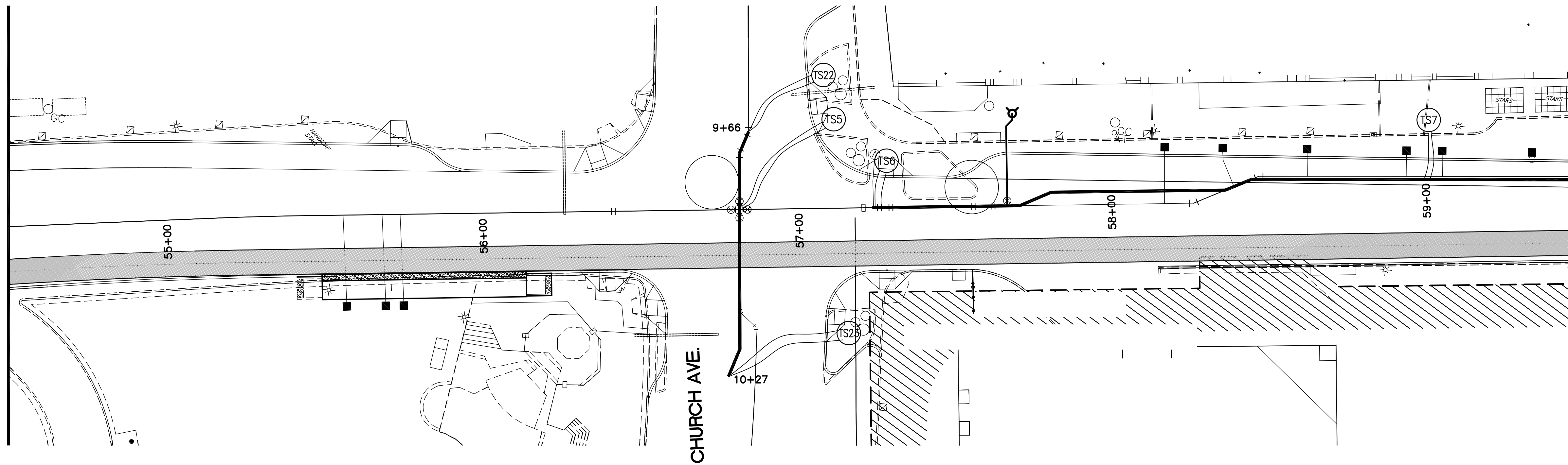
**CP TEST STATION PLAN**

<b>P</b> PRELIMINARY 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W24 OF W29	179 OF 184
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTCP02 SCALE: 1"=20' PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.

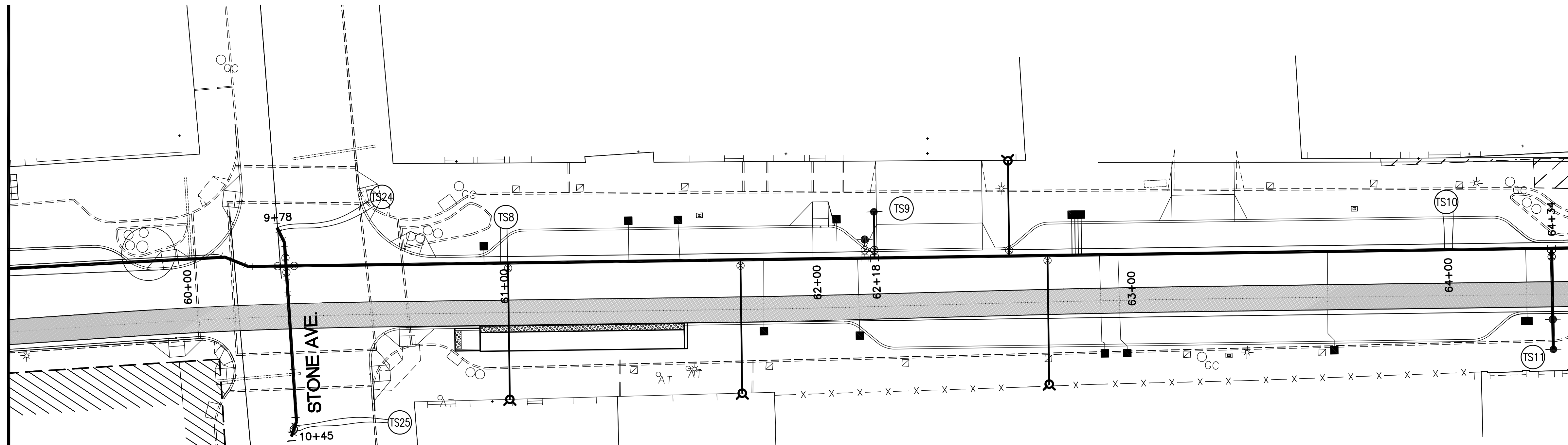
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 Mikes, Dong

MATCHLINE STA 54+50



MATCHLINE STA 59+50


MATCHLINE STA 59+50



MATCHLINE STA 64+50  
SEE SHEET CP3

### CONGRESS STREET

STATIONING IS ALONG THE ROADWAY CENTERLINE,  
UNLESS NOTED OTHERWISE


 TWO WORKING DAYS BEFORE YOU DIG  
 CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT

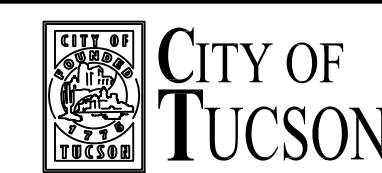
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### CP TEST STATION PLAN

CITY OF TUCSON WATER DEPARTMENT  
 DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
 CONGRESS STREET-GRANADA AVE. TO 5TH AVE.

W25 180  
 OF OF  
 W29 184

**P** PRELIMINARY  
 03.10.09  
 NOT FOR CONSTRUCTION  
 100% SUBMITTAL



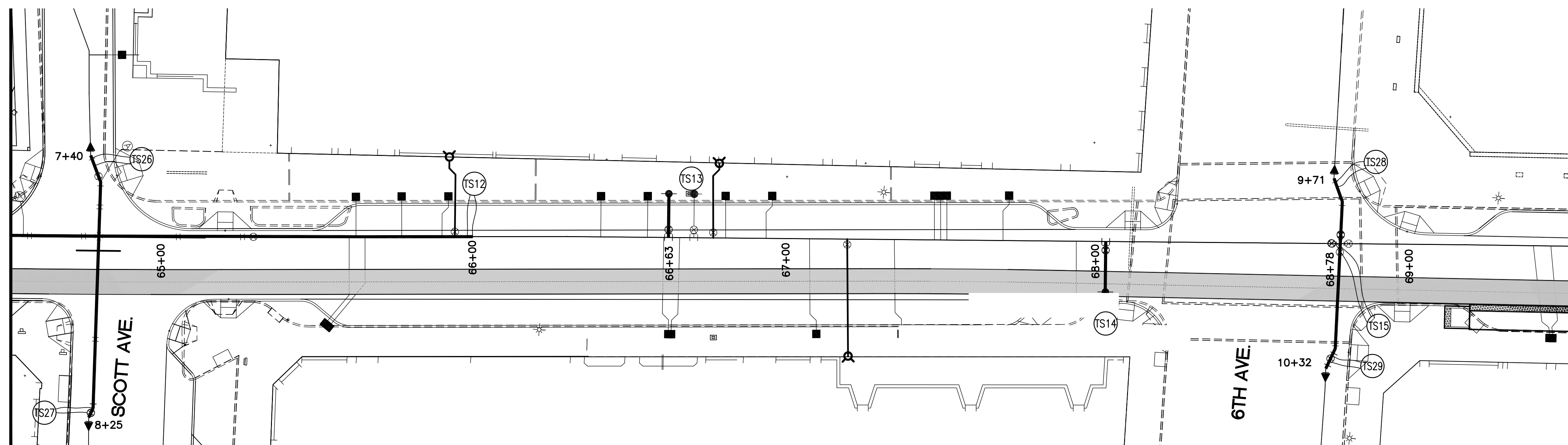
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 DSGN. BY B. HOSACK  
 CHKD. BY A. BATT

REF. CU-WTCP03 SCALE: 1"=20'  
 PLAN NO. I-2008-035

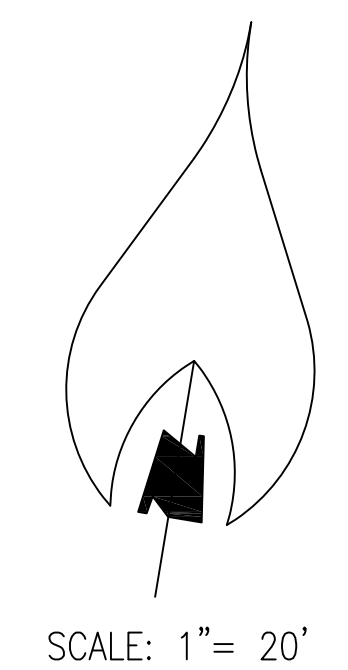
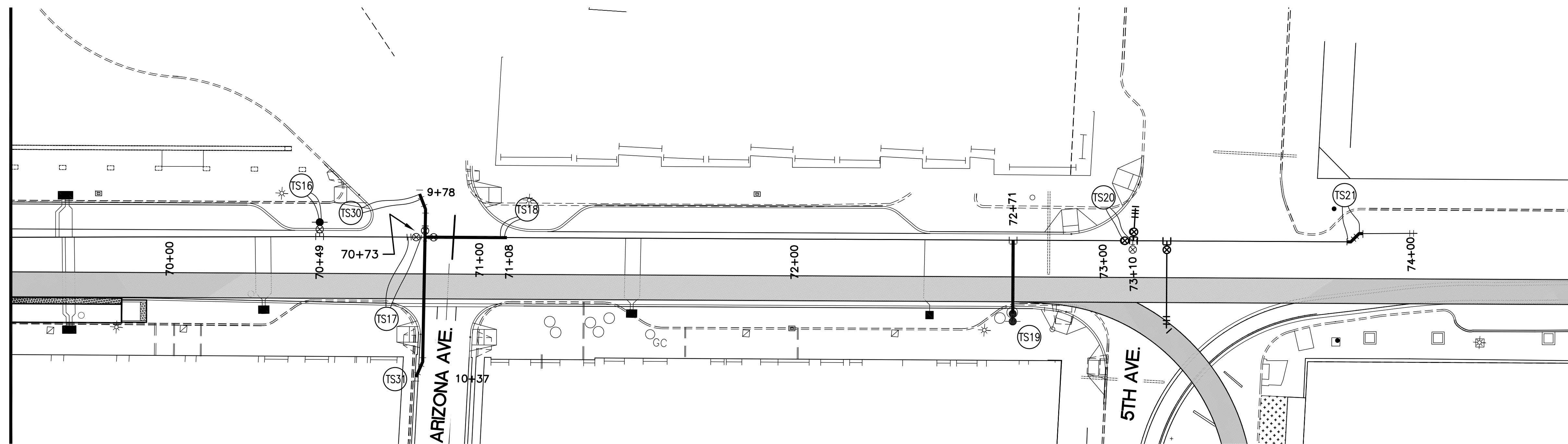
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 Mikes, Doug

MATCHLINE STA 64+50



MATCHLINE STA 69+50



SCALE: 1" = 20'

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CALL COLLECT

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### CP TEST STATION PLAN

CITY OF TUCSON WATER DEPARTMENT  
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT  
CONGRESS STREET-GRANADA AVE. TO 5TH AVE.

W26 181  
OF  
W29 184

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NOT FOR CONSTRUCTION  
100% SUBMITTAL

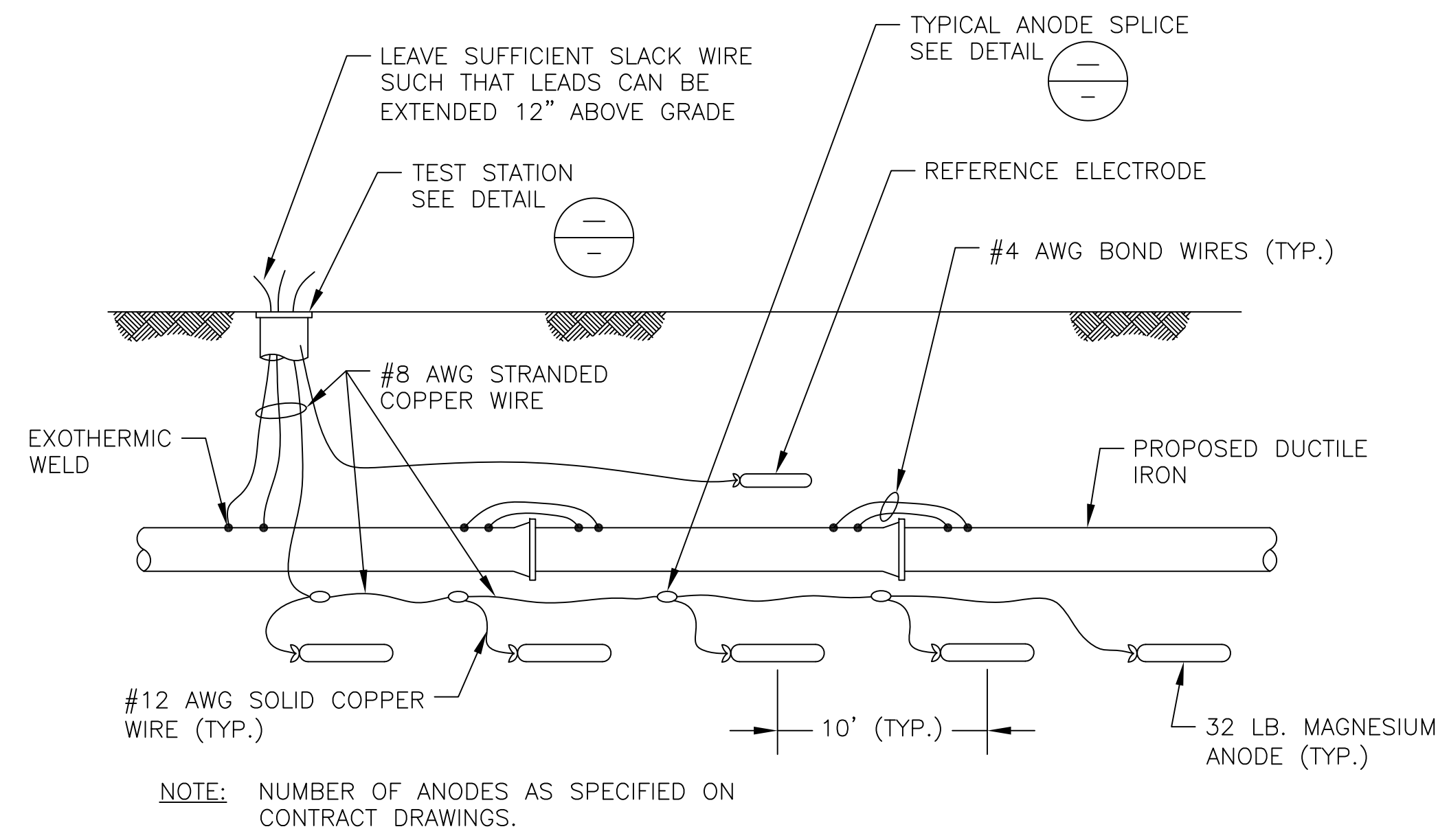


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DSGN. BY B. HOSACK  
CHKD. BY A. BATT

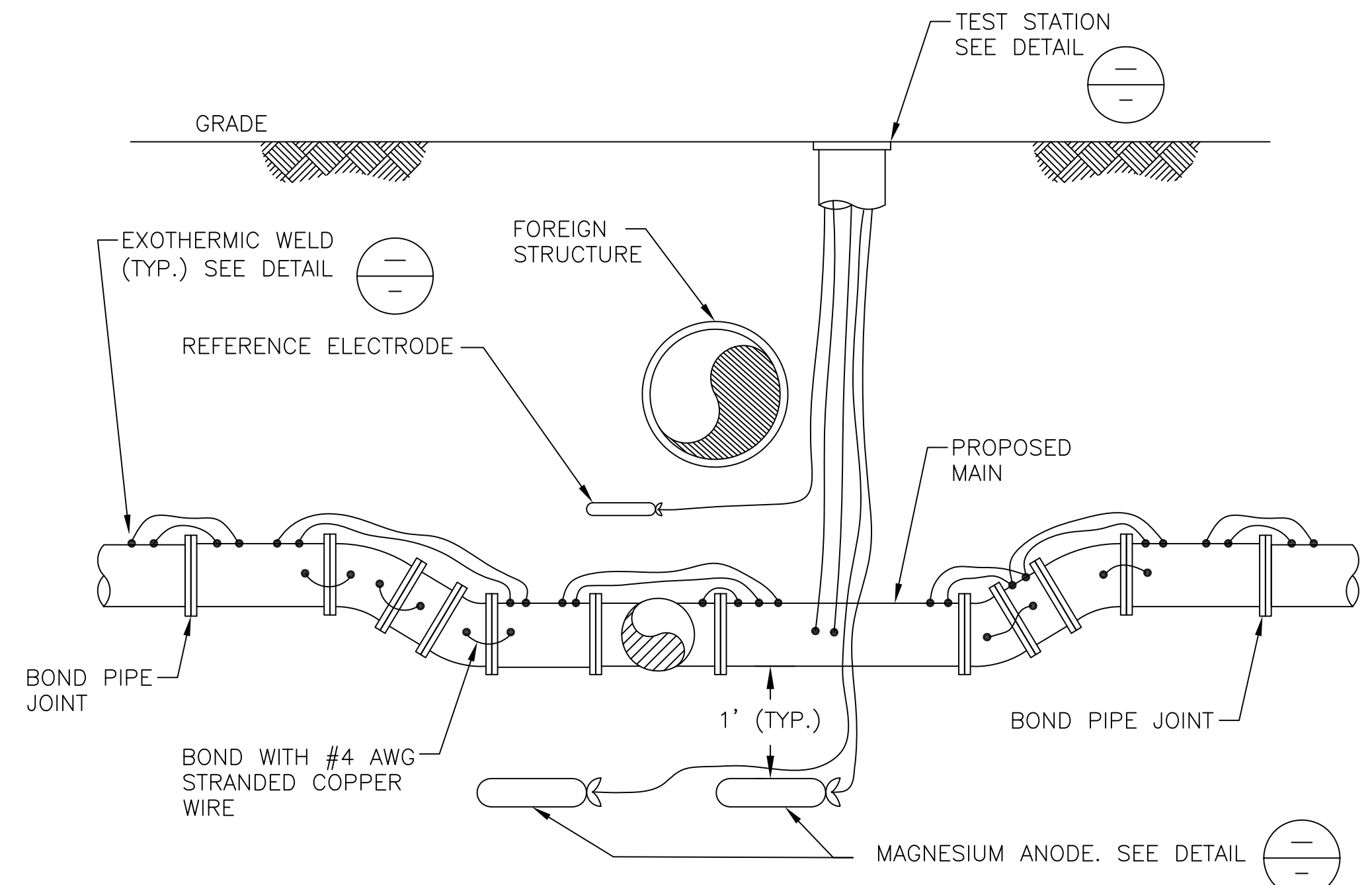
REF. CU-WTCP04 SCALE: 1"=20'  
PLAN NO. I-2008-035

NO.	DATE	REVISION	BY	CHKD.	APPR.

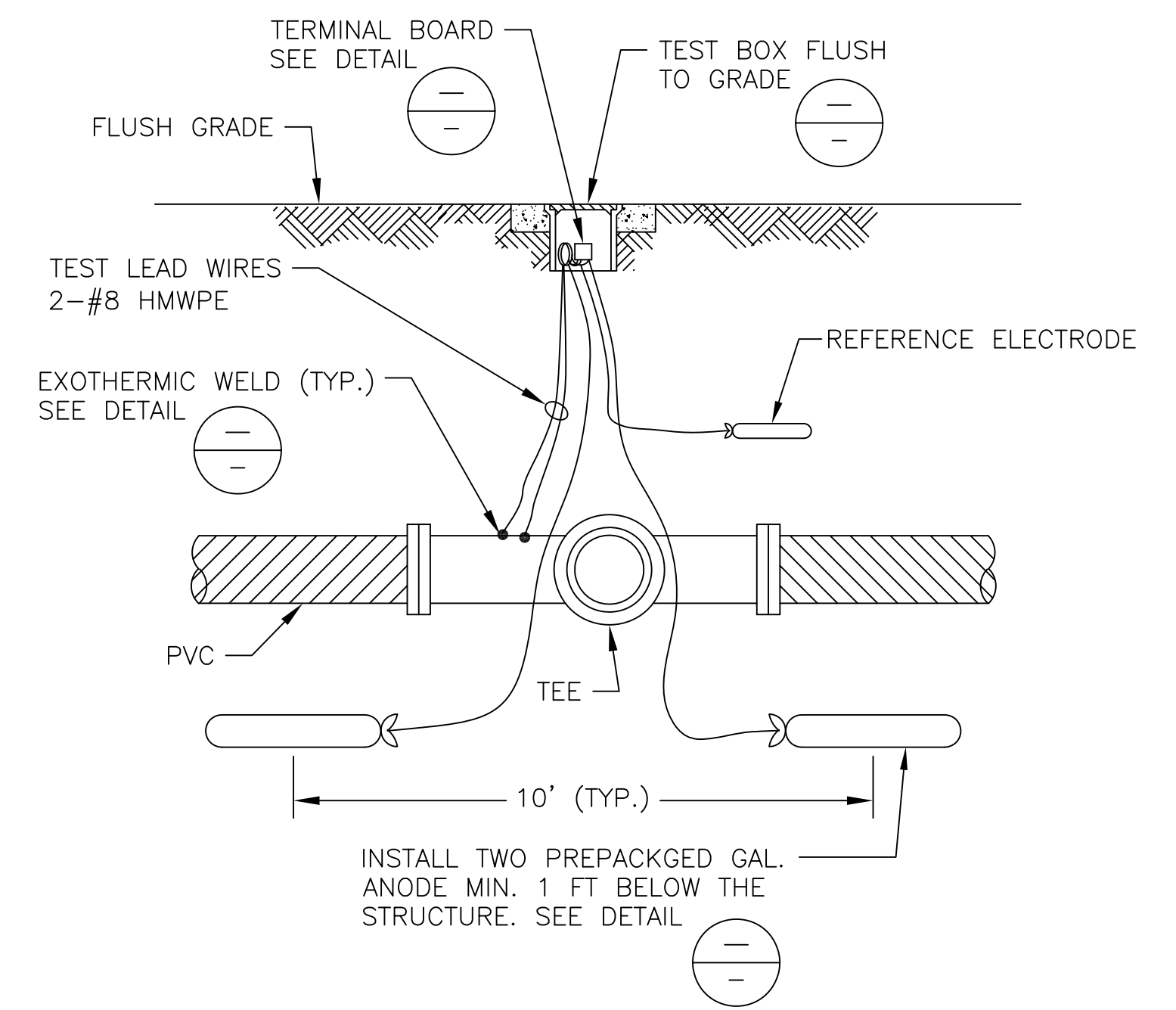
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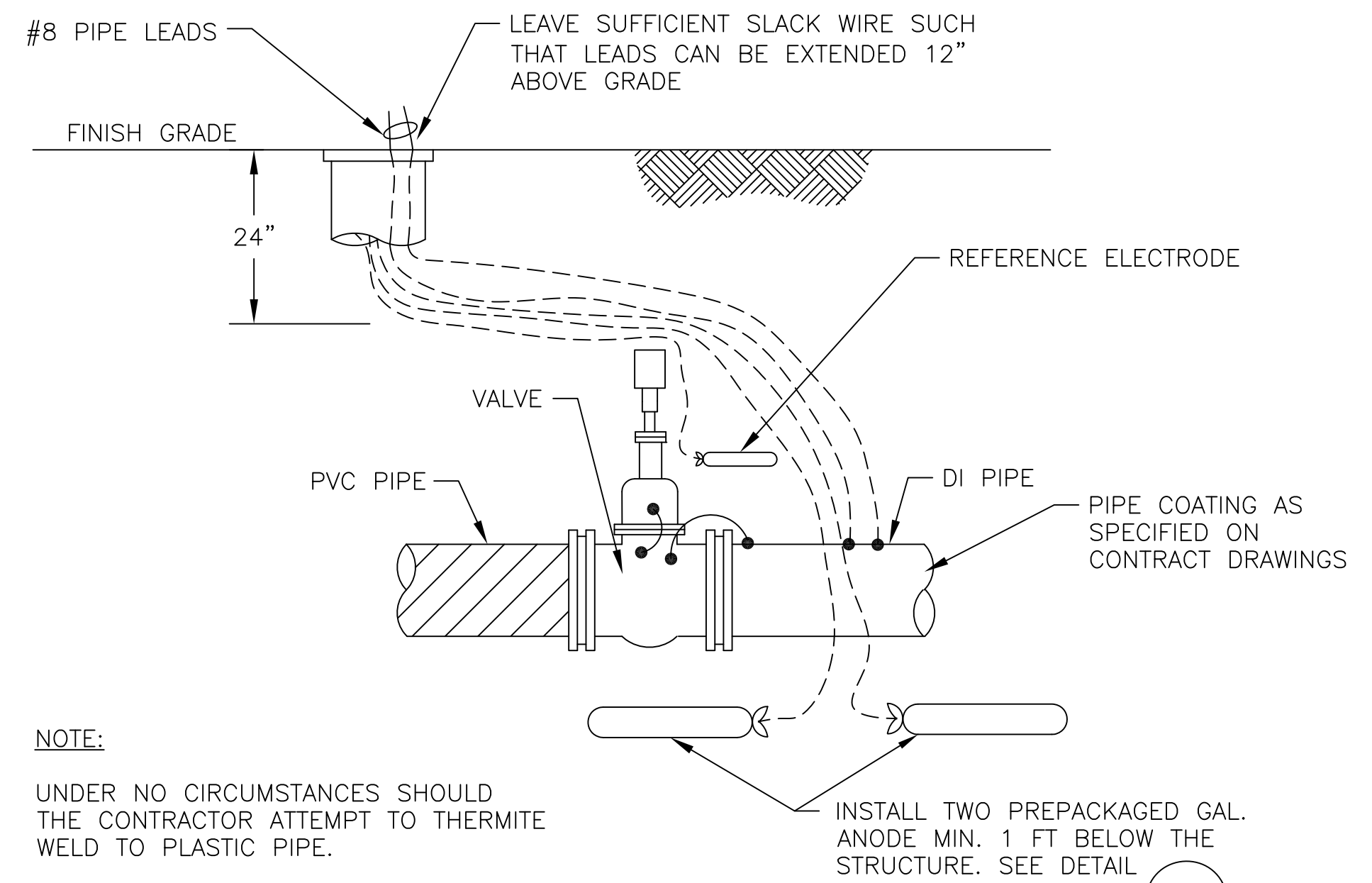
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NOT TO SCALE



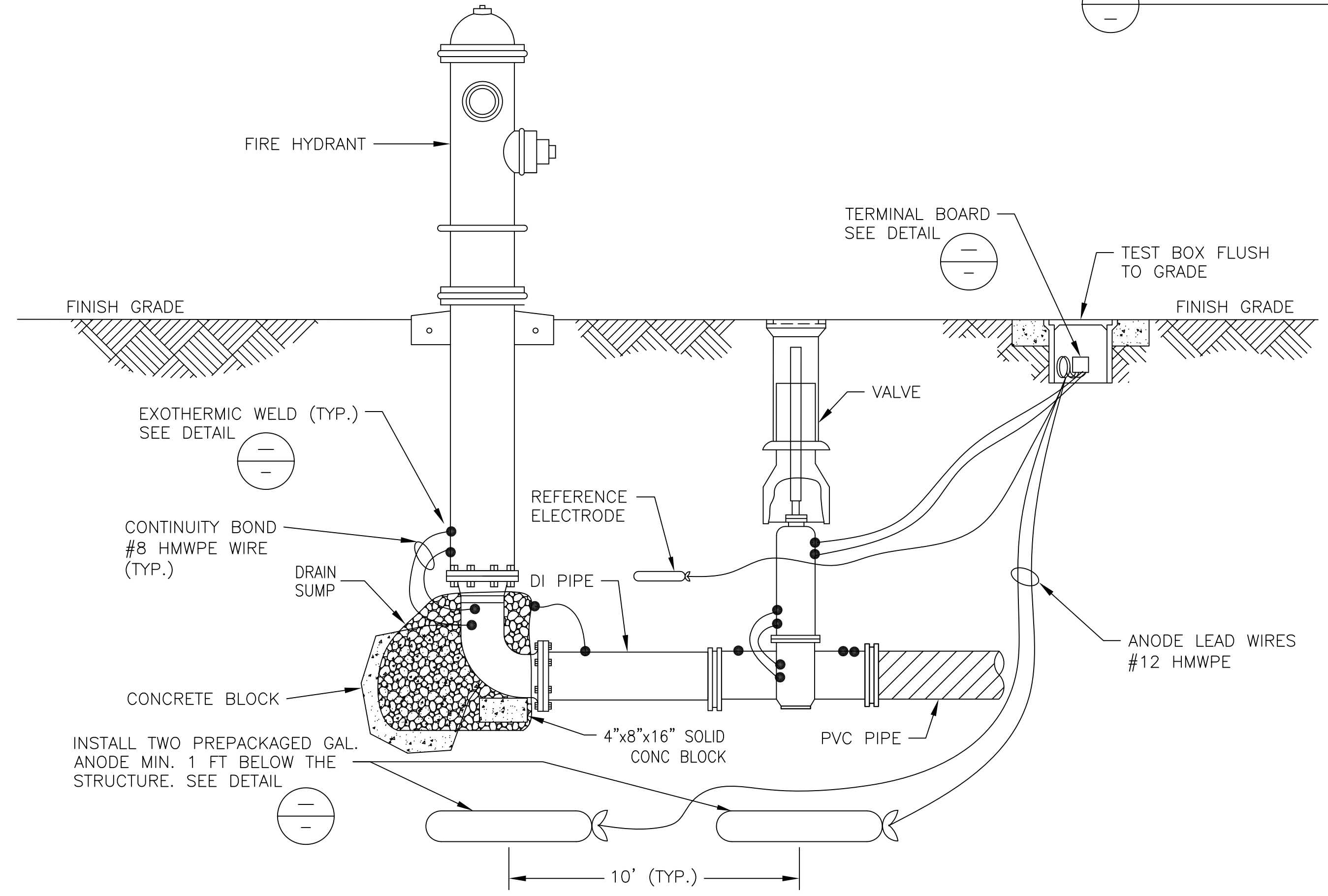
**2 TYPICAL GROUPING OF FITTINGS**  
NOT TO SCALE



**3 TEST STATION AT TEE**  
NOT TO SCALE



**4 TEST STATION AT VALVE**  
NOT TO SCALE



**5 TEST STATION AT FIRE HYDRANT**  
NOT TO SCALE

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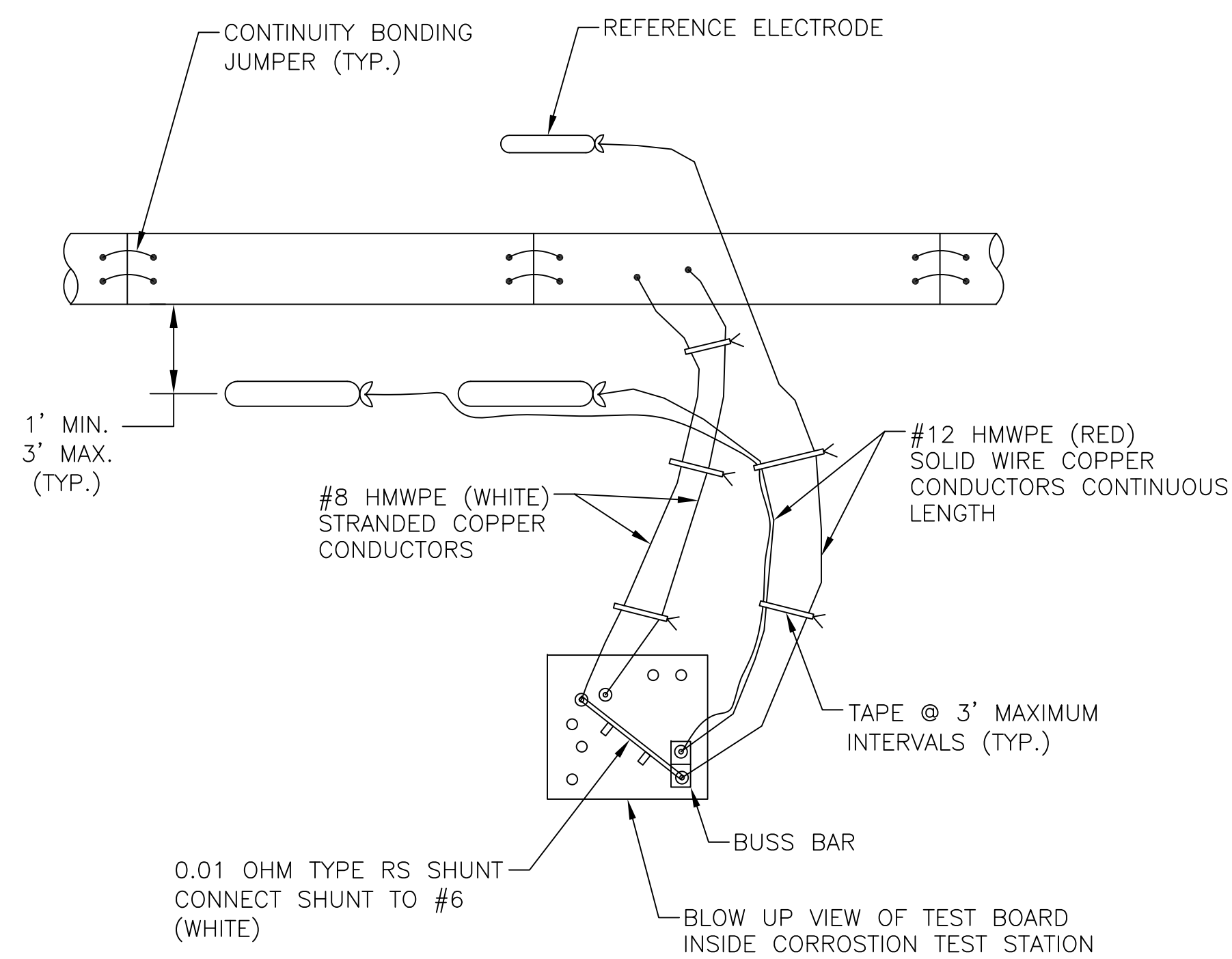
**1-800-782-5348**  
CALL COLLECT  
BLUE STAKE CENTER

**CP DETAILS**

<b>PRELIMINARY</b> 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W27 182 OF W29 184
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTCP05 SCALE: NTS PLAN NO. I-2008-035

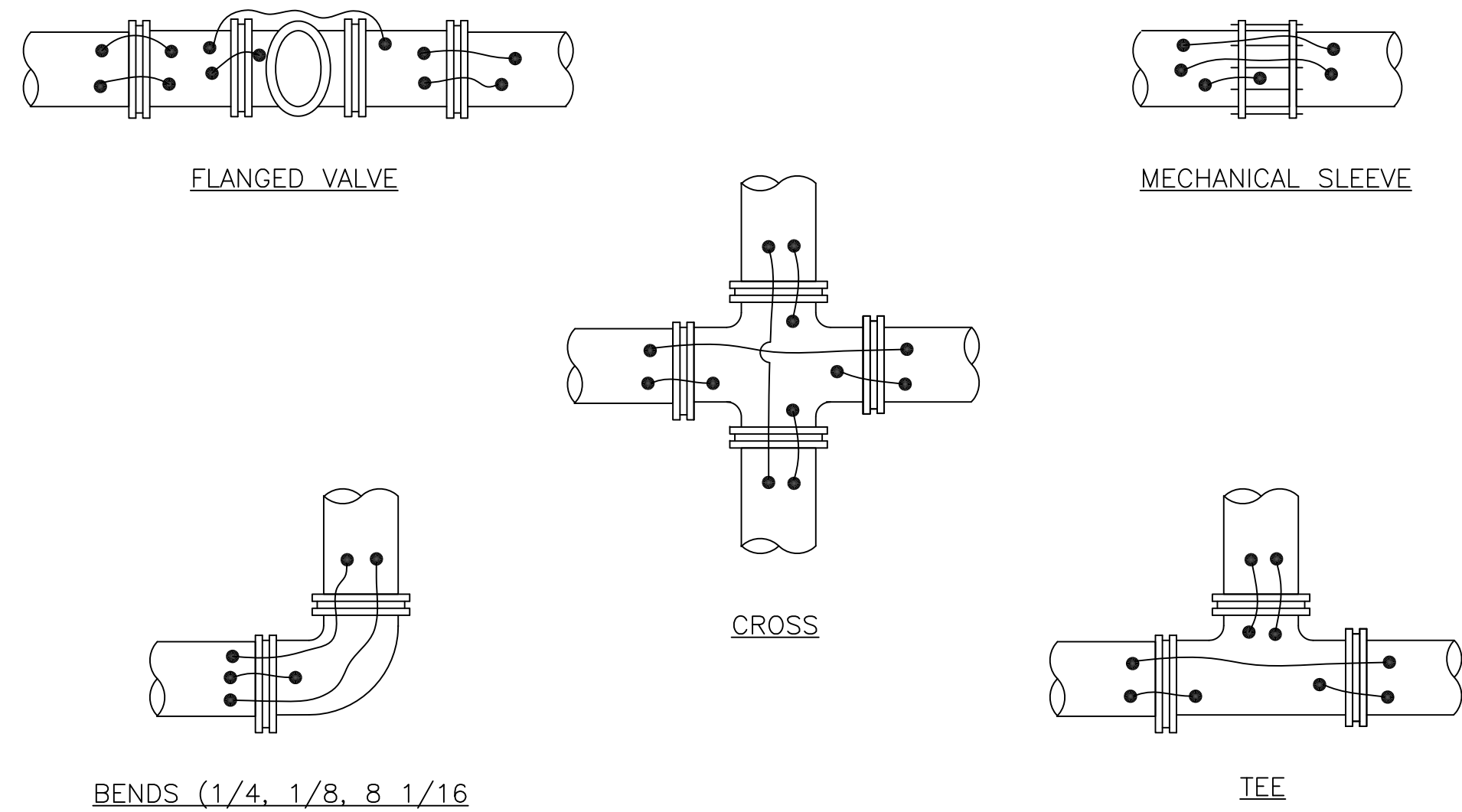
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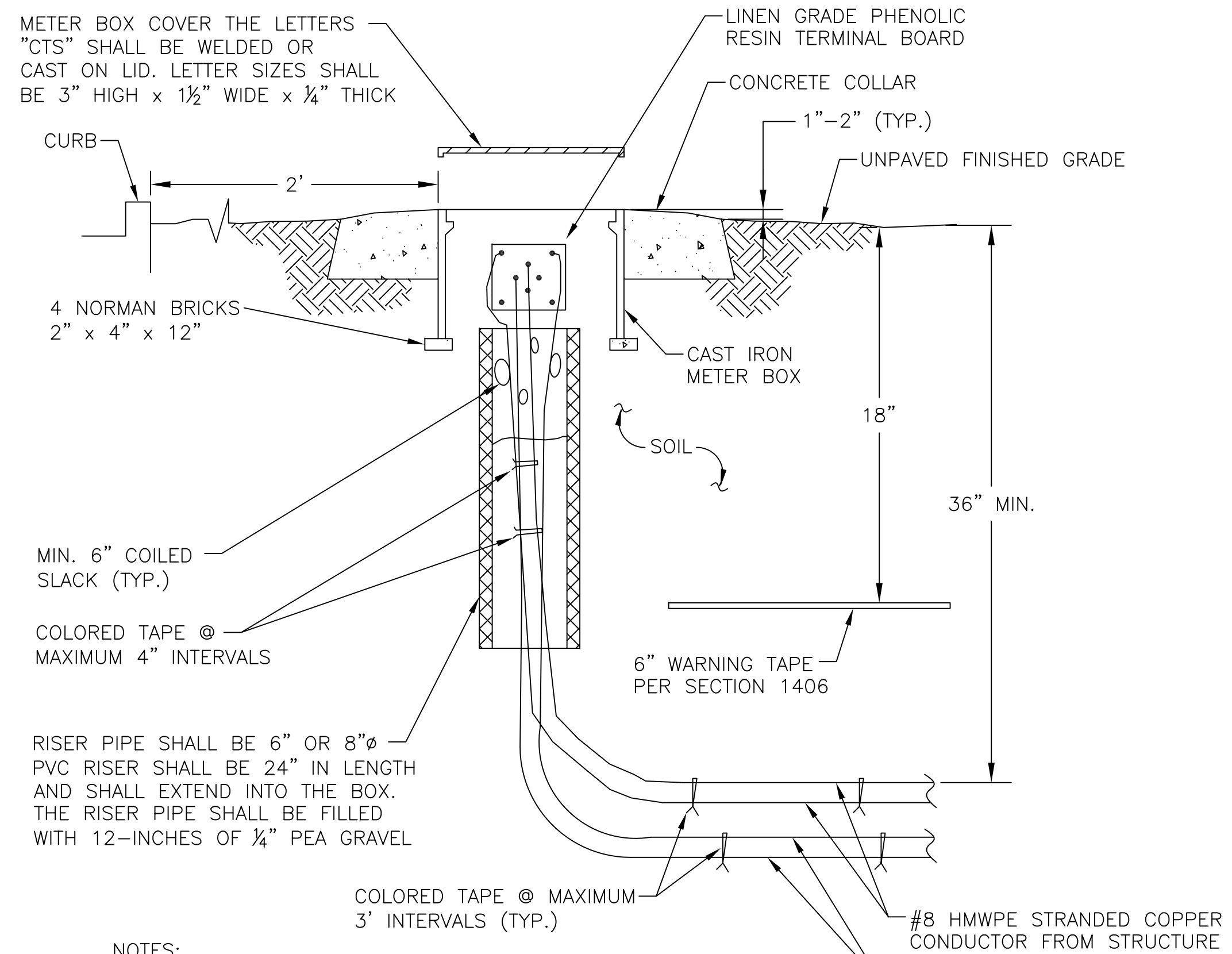


UPON COMPLETION AND 24 HOURS PRIOR TO BURIAL, THE CONTRACTOR SHALL VERIFY THAT THE ANODES ARE PROPERLY INSTALLED. VERIFICATION AND/OR TEST RESULTS SHALL BE INCLUDED IN THE FINAL CORROSION TEST REPORT

**6 TYPES OF CORROSION TEST STATIONS**  
NOT TO SCALE



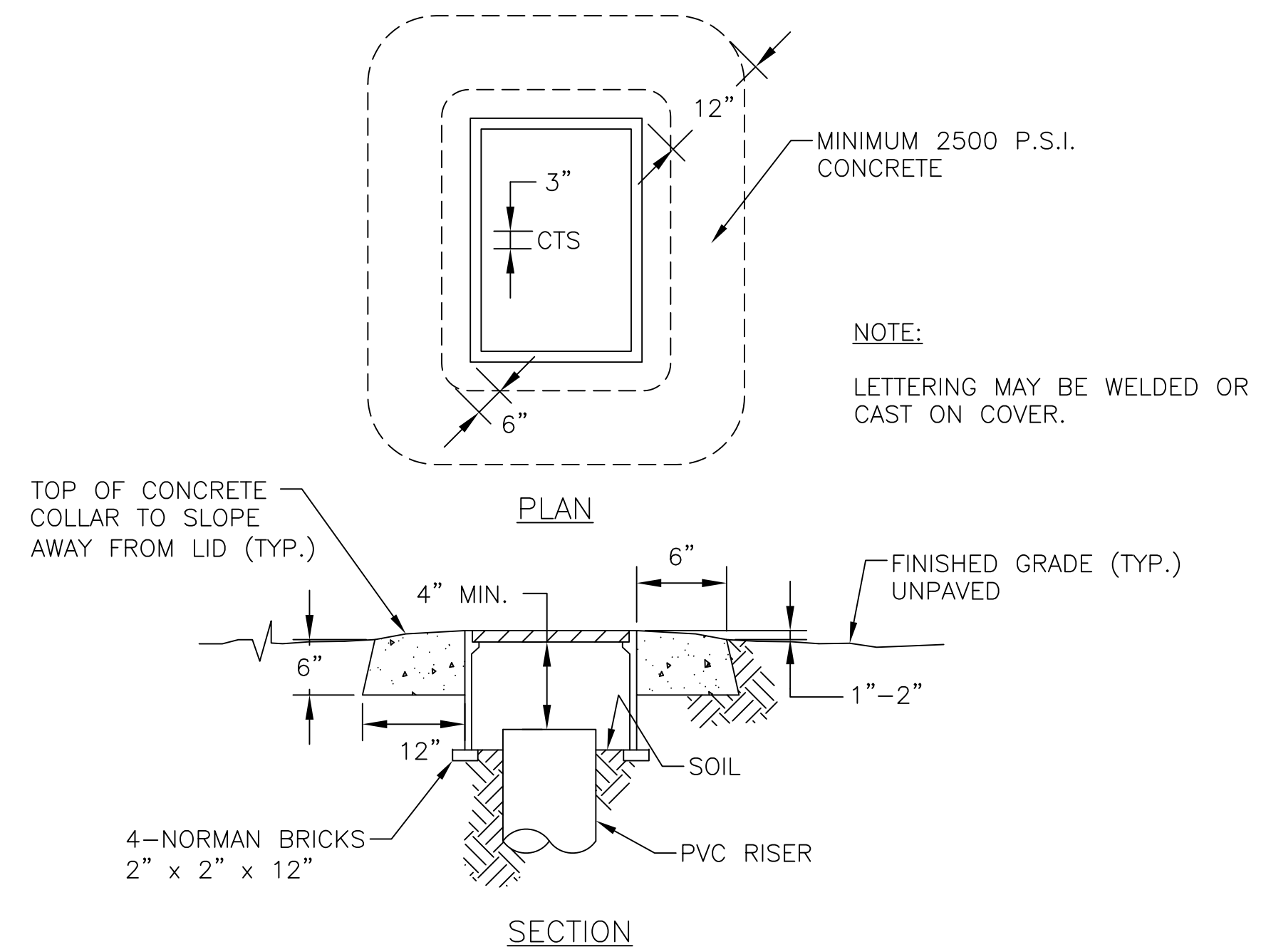
**9 TYPICAL BONDING OF FITTINGS**  
NOT TO SCALE



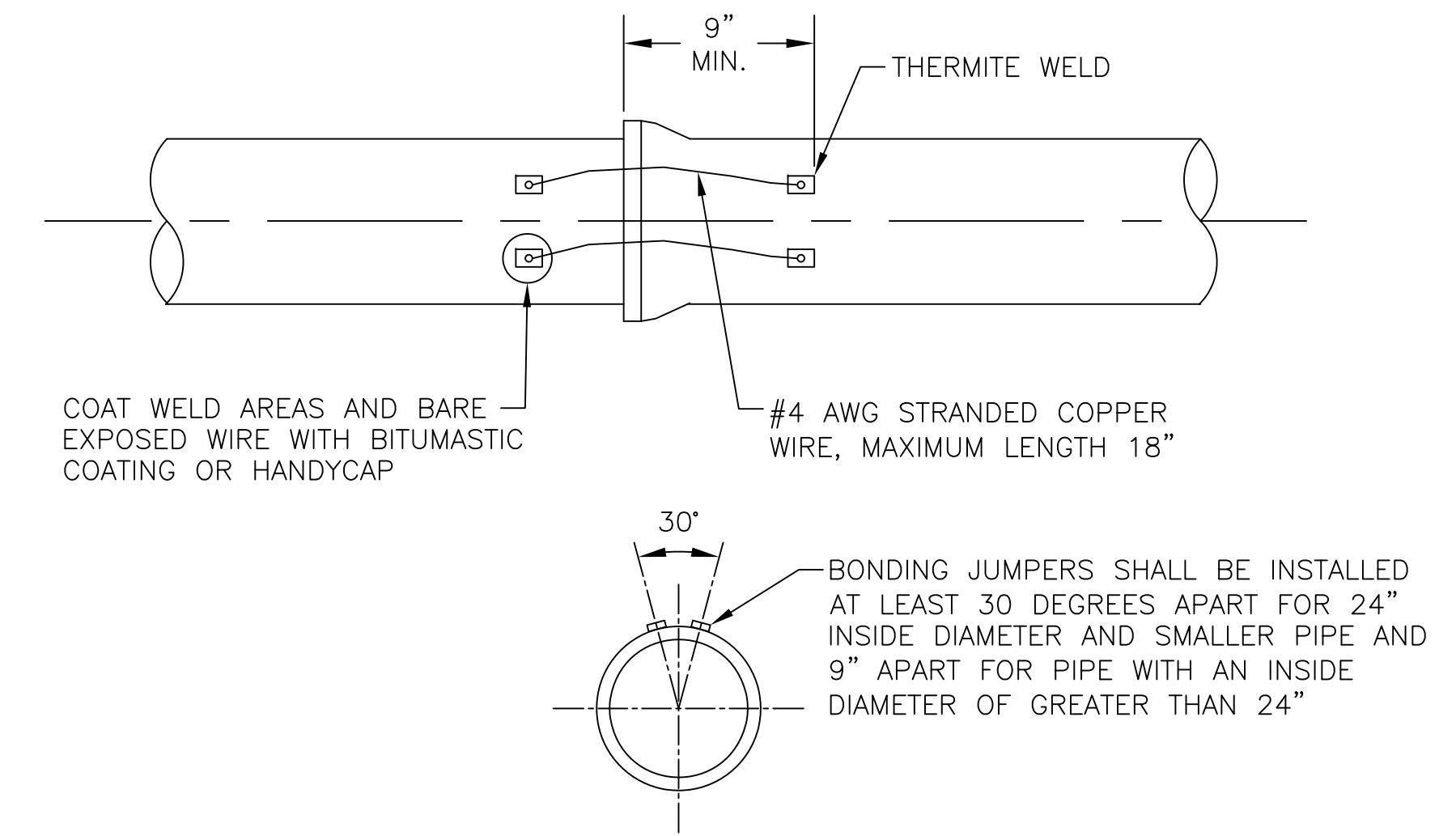
**NOTES:**

- #1 CAST IRON METER BOX COVER AND CONCRETE COLLAR SHALL BE PAINTED BLUE (POTABLE) OR PURPLE (RECLAIMED).
- SET METER BOX 2' BACK OF CURB.

**7 CORROSION TEST STATION**  
NOT TO SCALE



**10 CONCRETE COLLAR**  
NOT TO SCALE



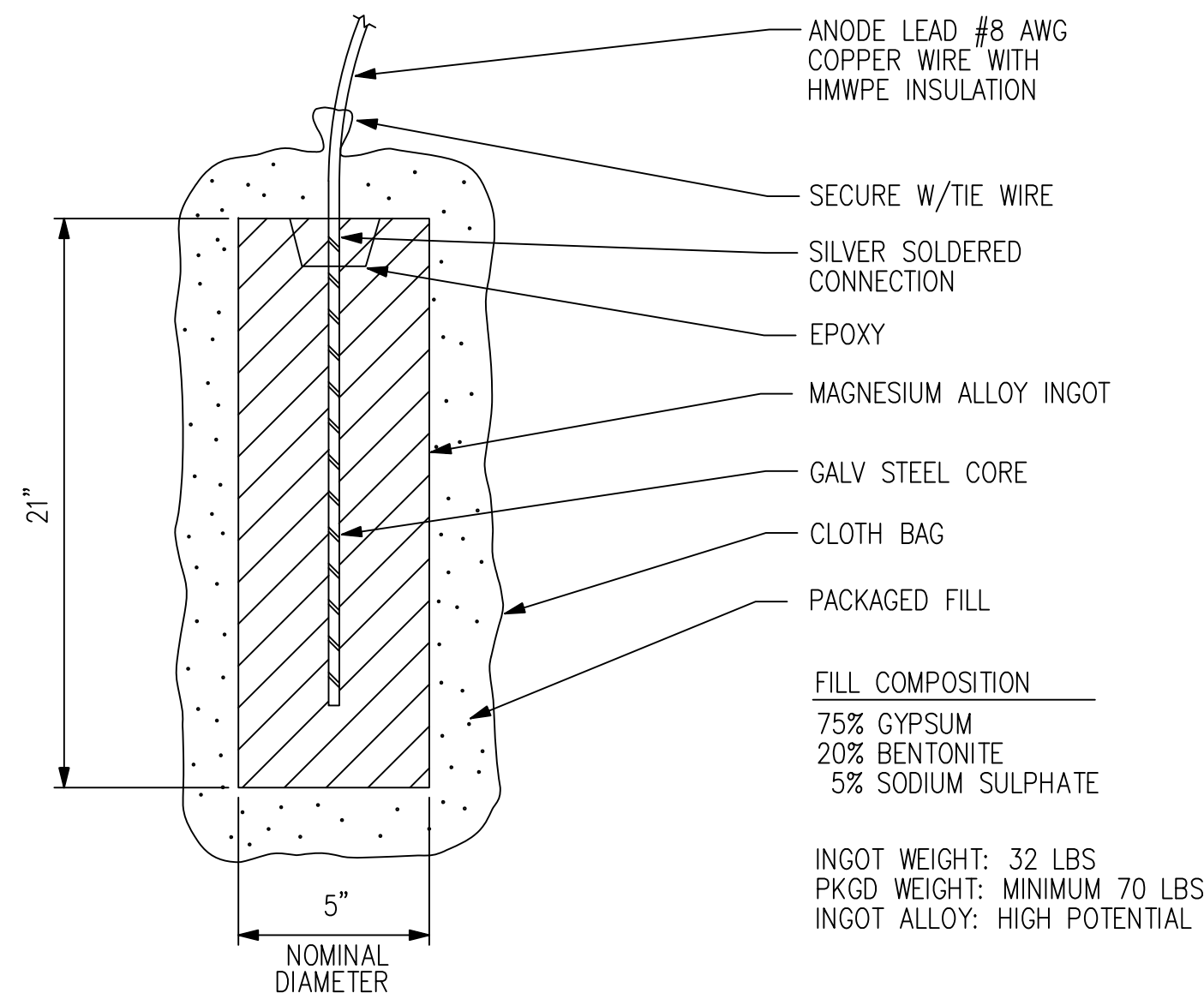
**8 TYPICAL PIPE JOINT BOND (STRAIGHT PIPE)**  
NOT TO SCALE

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 Mikes, Doug

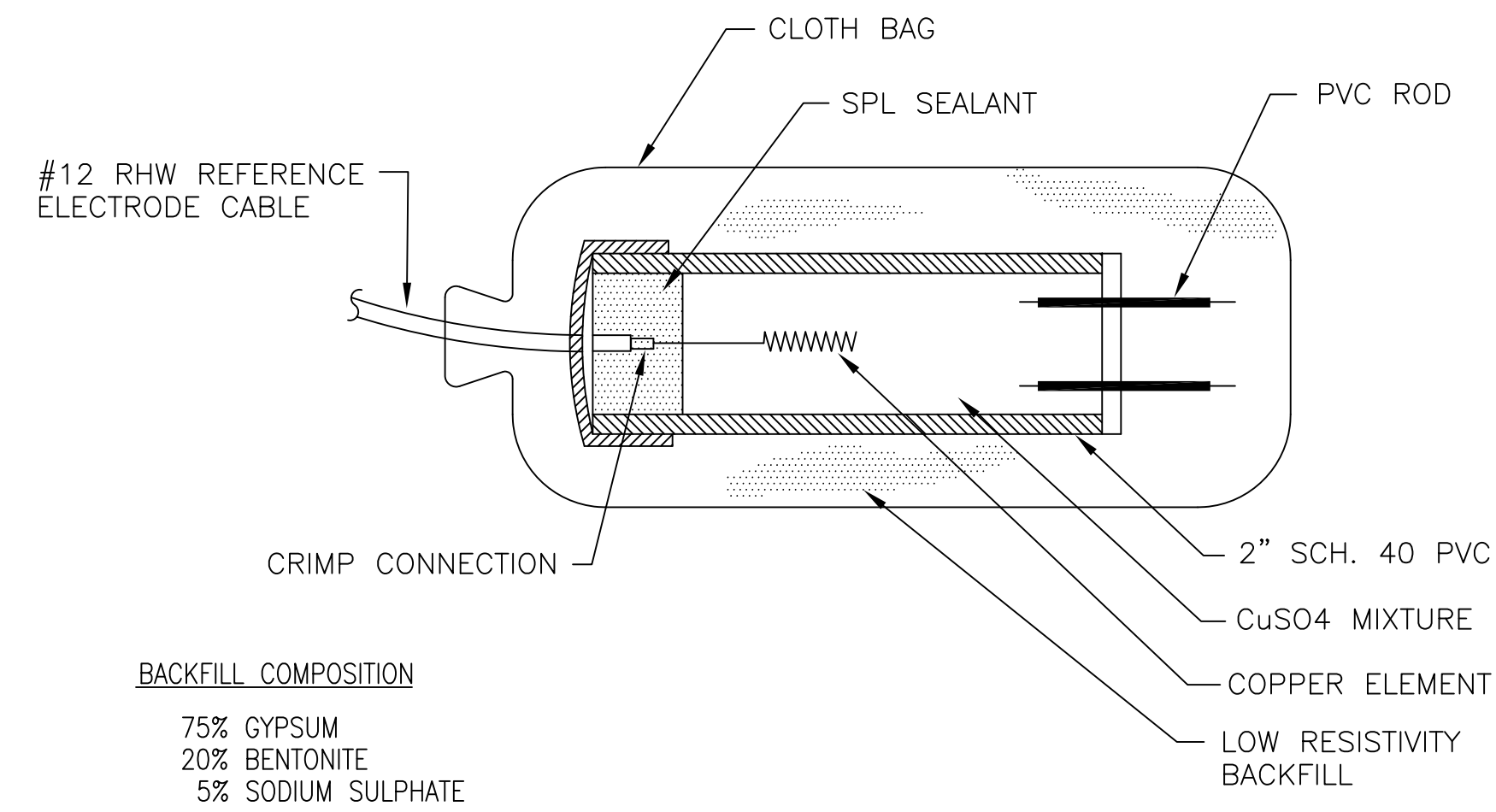
TWO WORKING DAYS BEFORE YOU DIG  
 CALL FOR THE BLUE STAKES  
 1-800-782-5348  
 BLUE STAKE CENTER  
 CALL COLLECT  
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<b>PRELIMINARY</b> 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W28 OF W29 OF 183 OF 184
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTCP06 SCALE: NTS PLAN NO. I-2008-035

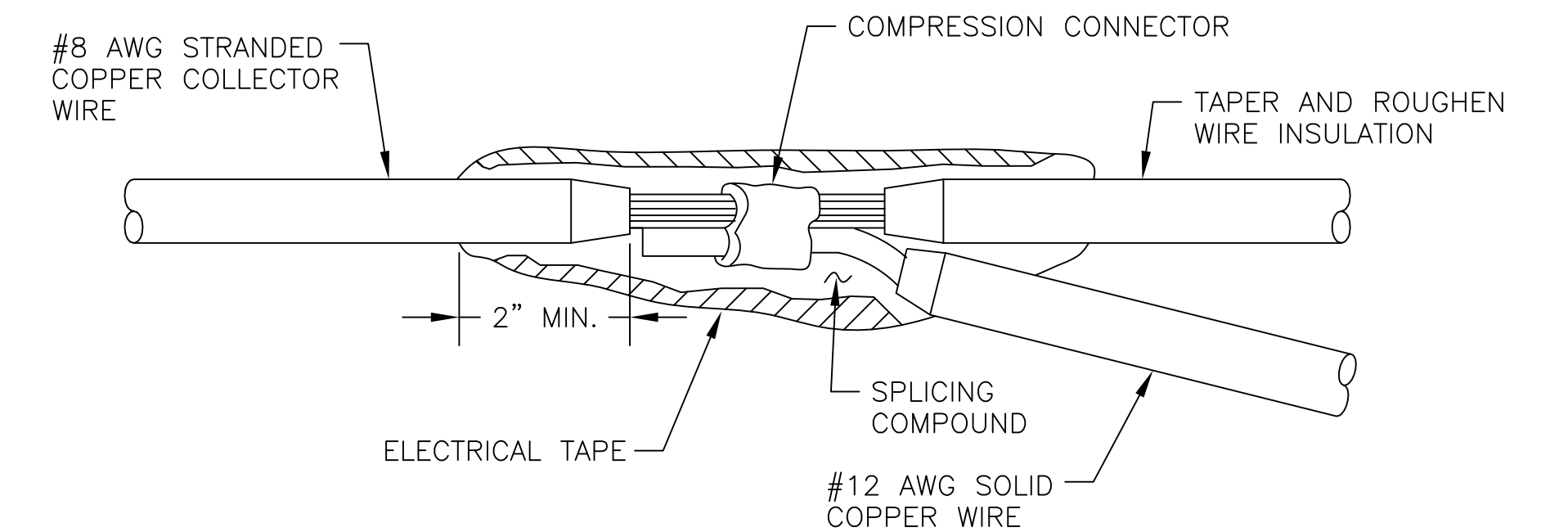
NO.	DATE	REVISION	BY	CHKD.	APPR.



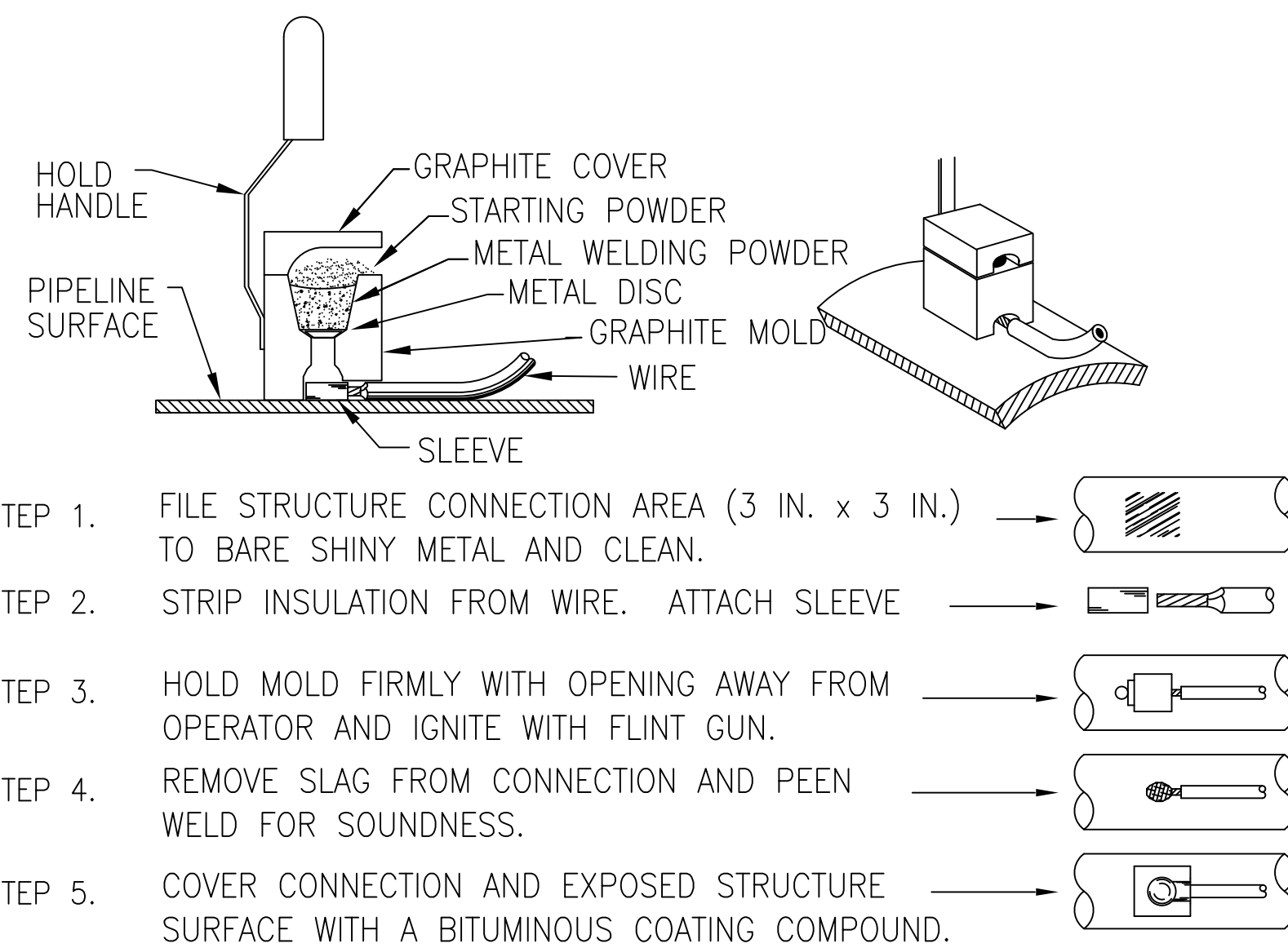
11 **MAGNESIUM ANODE**  
NOT TO SCALE



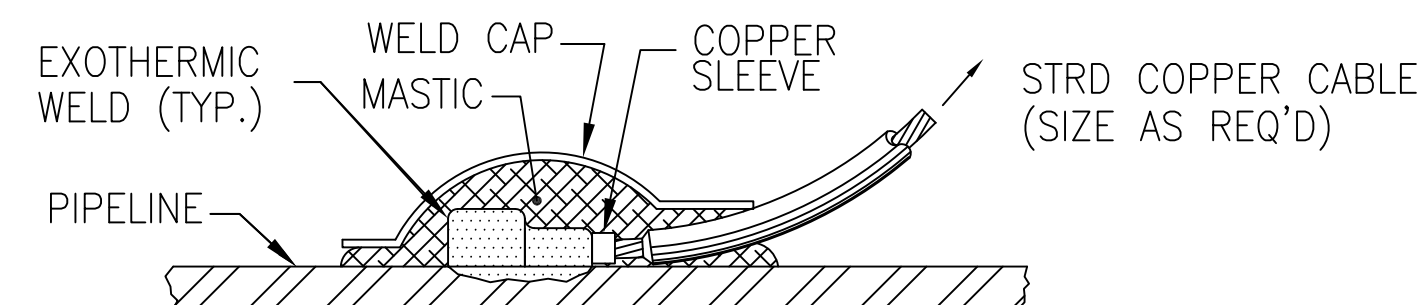
12 **REFERENCE ELECTRODE**  
NOT TO SCALE



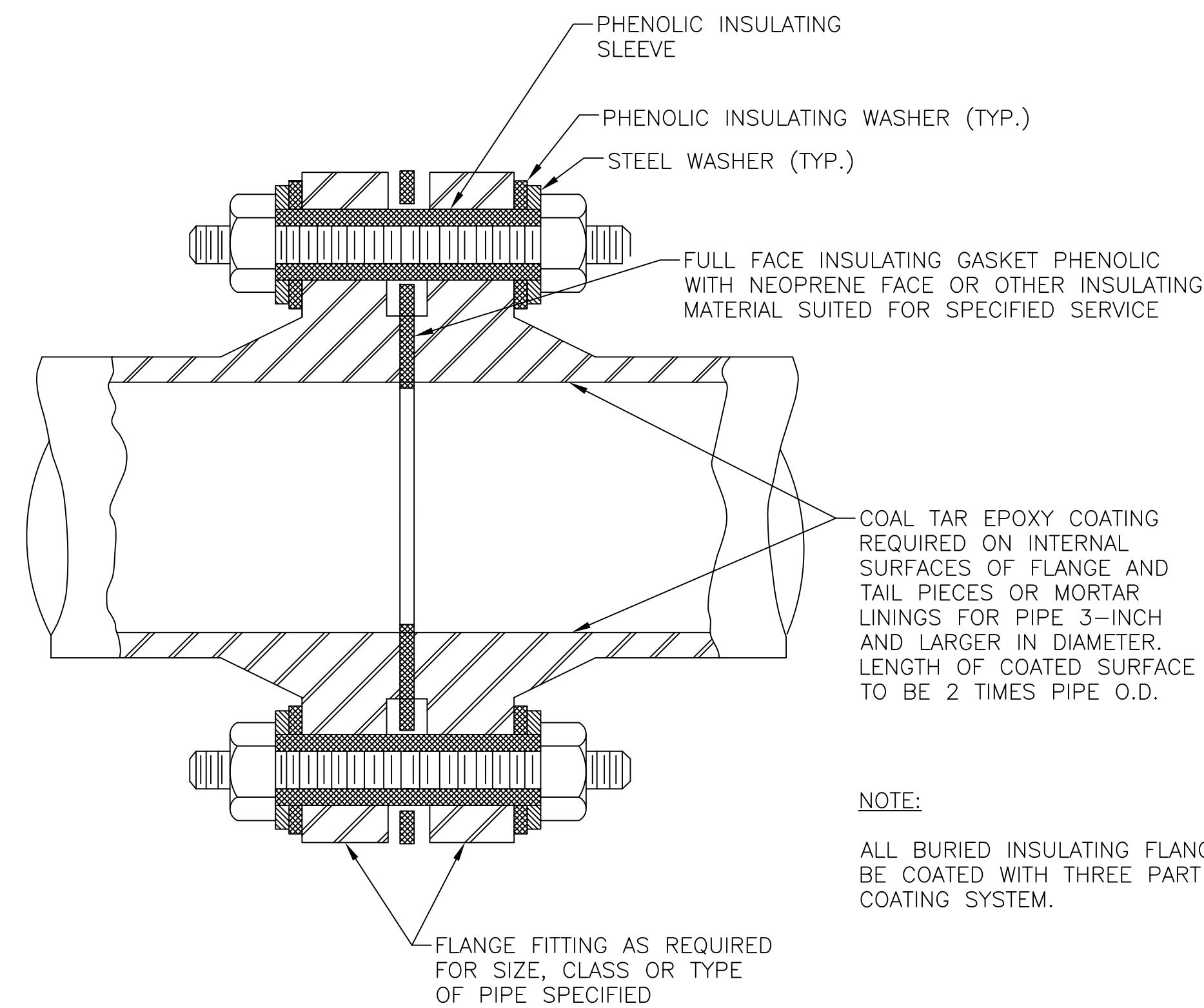
13 **TYPICAL ANODE SPLICE**  
NOT TO SCALE



NOTE: 1. PROCEDURE SHOWN ABOVE IS ONLY TO BE USED AS A GENERAL GUIDE ONLY. CONSULT MANUFACTURER'S LITERATURE FOR SPECIFIC INSTALLATION INSTRUCTIONS.  
2. COPPER SLEEVE ONLY REQUIRED FOR CABLE SIZES #10 OR SMALLER.



14 **EXOTHERMIC WELD PROCEDURE**  
NOT TO SCALE



NOTE:  
ALL BURIED INSULATING FLANGES SHALL BE COATED WITH THREE PART WAX TAPE COATING SYSTEM.

12 **INSULATING FLANGE KIT ASSEMBLY**  
NOT TO SCALE

TWO WORKING DAYS BEFORE YOU DIG CALL FOR THE BLUE STAKES  
1-800-782-5348  
BLUE STAKE CENTER  
CALL COLLECT

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**CP DETAILS**

<b>PRELIMINARY</b> 03.10.09 NOT FOR CONSTRUCTION 100% SUBMITTAL	CITY OF TUCSON WATER DEPARTMENT DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT CONGRESS STREET-GRANADA AVE. TO 5TH AVE.		W29 184 OF W29 184
	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. CU-WTCP07 SCALE: NTS PLAN NO. I-2008-035	

NO.	DATE	REVISION	BY	CHKD.	APPR.