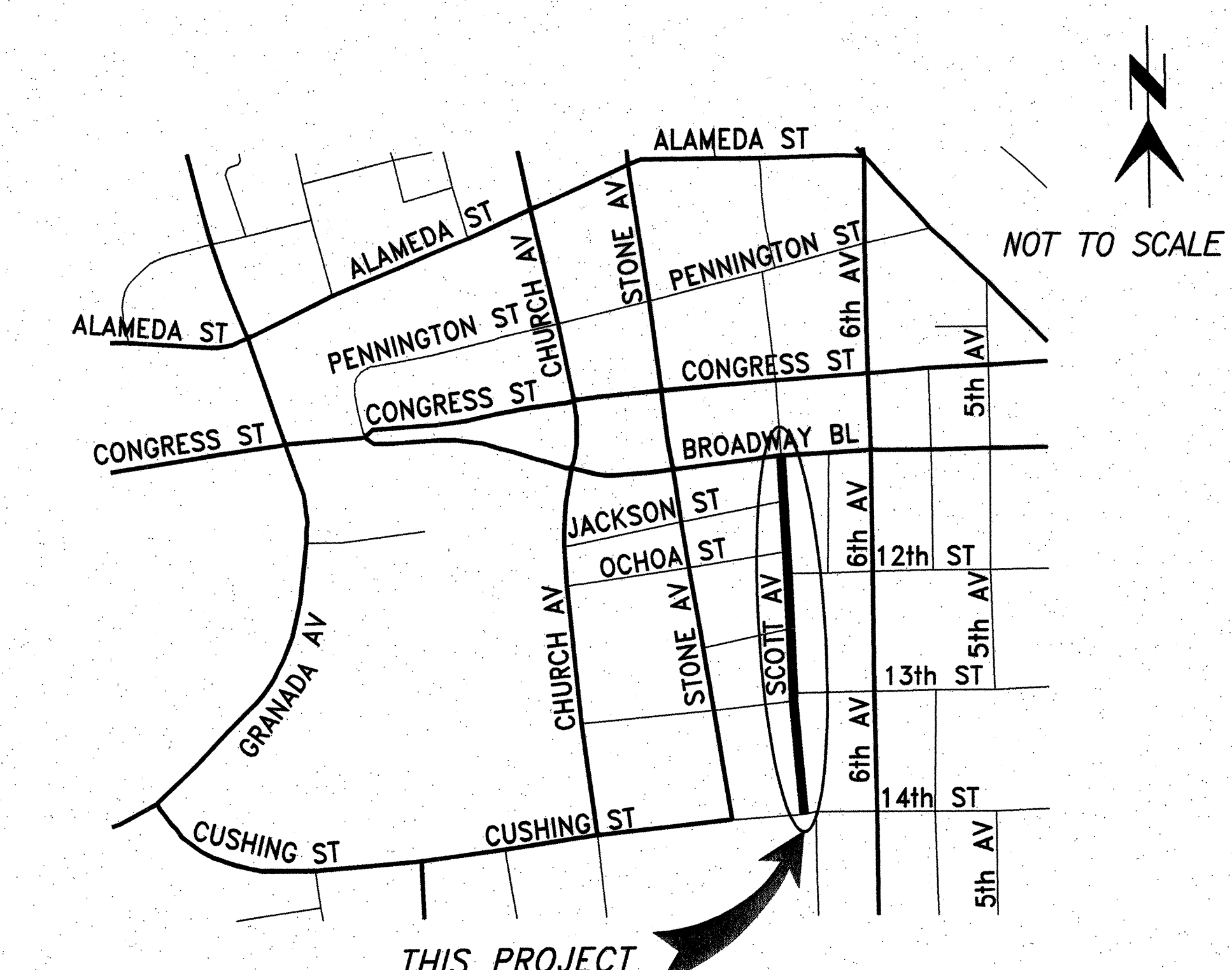
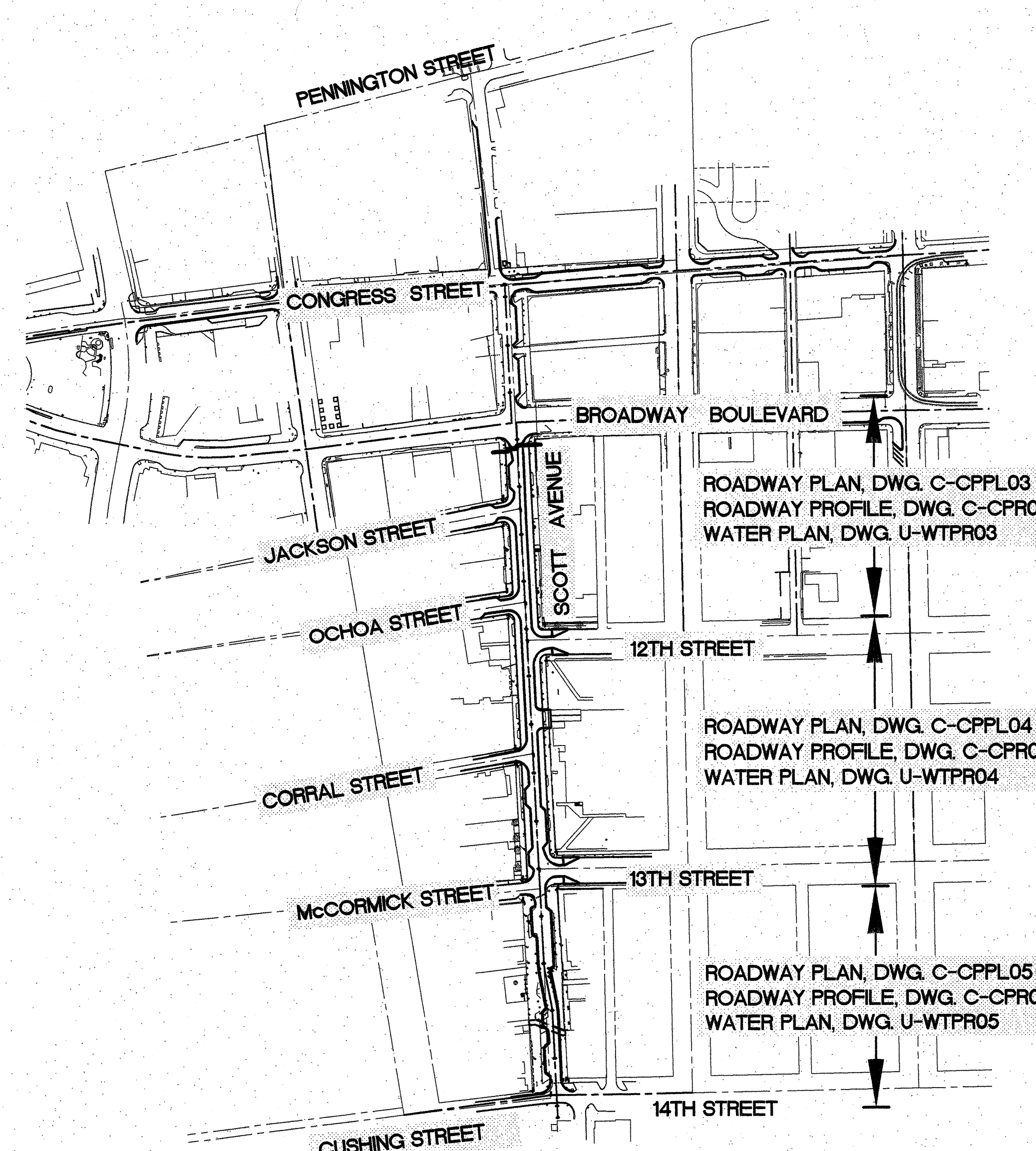
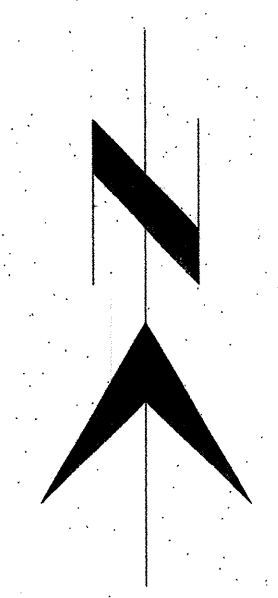


DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVENUE - BROADWAY BLVD. TO 14th STREET STREETScape PROJECT



LOCATION PLAN

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

SHEET INDEX

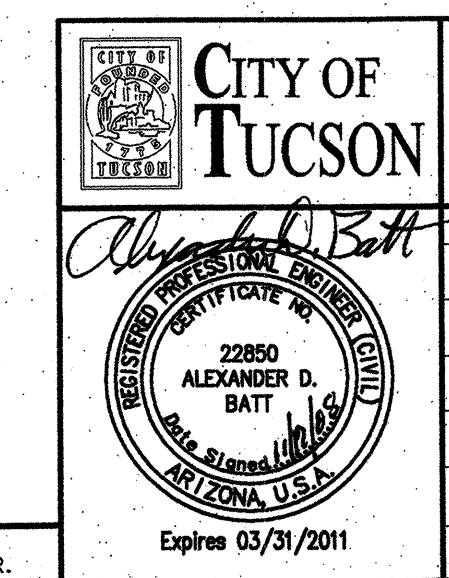
1	COVER SHEET
2	GENERAL NOTES, STRUCTURAL SECTIONS, LEGEND
3	TYPICAL SECTIONS
4	GEOMETRIC LAYOUT PLAN
5-13	ROADWAY DETAILS
14-16	DEMOLITION PLANS
17-22	ROADWAY PLAN + PROFILE
23-27	SIGNING AND MARKING PLANS
28-31	LIGHTING PLANS
32-39	HARDSCAPE PLANS
40-46	LANDSCAPE PLANTING
47-51	IRRIGATION PLANS
52-54	MAINTENANCE OF TRAFFIC PLANS
55-58	SWPPP
59-71	WATER PLANS



DESIGN BUILD TEAM:

Contractor
Archer Western Contractors

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



CITY OF TUCSON		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETScape PROJECT	
Approvals	Signatory	Date	Approved
TPD ENGINEERING	<i>[Signature]</i>	11/08	11/2008
ENGINEERING LANDSCAPE ARCH	<i>[Signature]</i>	11/08	
ENGINEERING ADMINISTRATOR	<i>[Signature]</i>	11/08	
PM/CITY MANAGER'S OFFICE	<i>[Signature]</i>	11/25	
		TRANSPORTATION DIRECTOR	
		REF. C-CPGN01 SCALE: 1"=200'	
DRWN. BY: VH	20 08	DSGN. BY: DMM	20 08
CHKD. BY: AB	20 08	PLAN NO. I-2008-027	

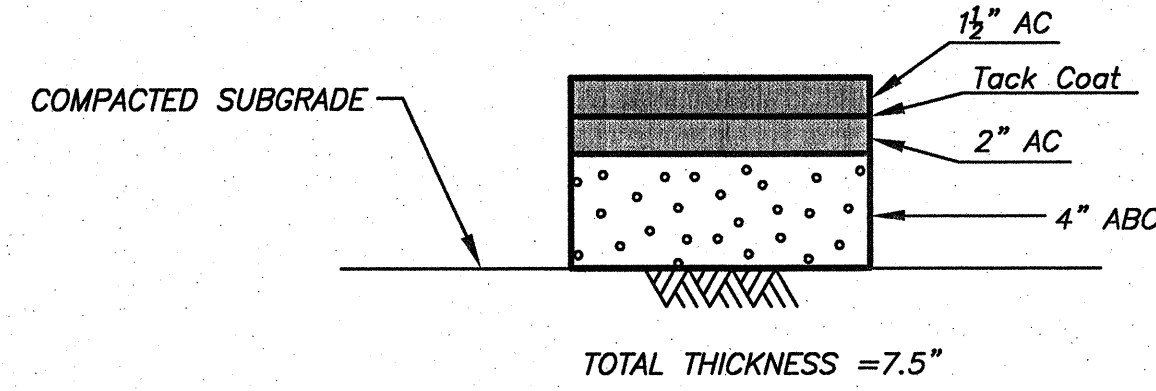
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 Alex D. Bait

NO.	DATE	REVISION	BY	CHKD.	APPR.

GENERAL NOTES

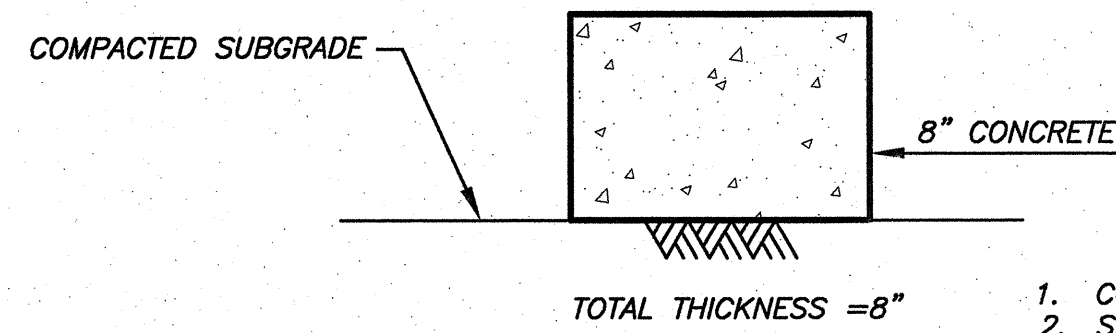
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC IMPROVEMENTS (2003 EDITION) EXCEPT AS MODIFIED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION 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 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 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 OR 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.
- 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.
- 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 PCWMD 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 LEVIED ON PCWMD BECAUSE THE SSO ENTERED A NATURAL OR CONSTRUCTED STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCWMD 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 PCWMD PRIOR TO START OF ANY SEWER RELATED CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE A COPY OF PCWMD 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 PCWMD 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 PCWMD 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 PCWMD 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 PCWMD 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



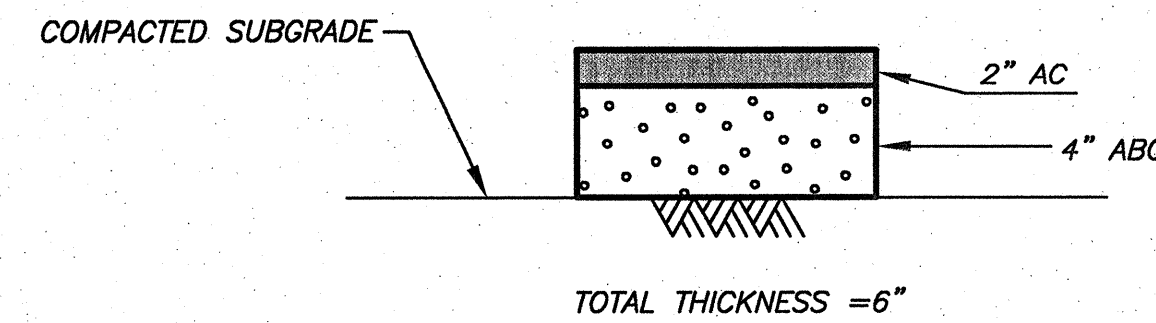
STRUCTURAL SECTION NO. 1

N.T.S.



STRUCTURAL SECTION NO. 2

N.T.S.



STRUCTURAL SECTION NO. 3

MISC. DRIVEWAY PAVEMENT

N.T.S.

LEGEND

EXISTING	CONSTRUCTION NOTE	PROPOSED
●	POWER POLE	(X)
●	FIRE HYDRANT	●
●	VALVE, WATER OR GAS AS NOTED	●
○	EXISTING SEWER MANHOLE	○
○	EXISTING LIGHT POLE	○
○	ELECTRIC MANHOLE	○
□	TRANSFORMER	□
○	TELEPHONE MANHOLE	○
○	PARKING METER	PM
○	BENCHMARK/SURVEY BASIS OF CONTROL	SM
▨	AC PAVEMENT	▨
▩	CONCRETE PAVEMENT	▩
---	MONUMENT CENTERLINE	---
---	RIGHT-OF-WAY LINE	---
⊗	6" PVC WATER LINE & VALVE	⊗
G	GAS LINE	G
UG	UNDERGROUND ELECTRIC LINE	UG
SS	STORM SEWER LINE	SS
OHE	OVERHEAD ELECTRIC LINE	OHE
○	FENCE - CHAINLINK	○
UGT	UNDERGROUND TELEPHONE LINE	UGT
○	SANITARY SEWER AND MANHOLE	○
□	CATCH BASIN	□

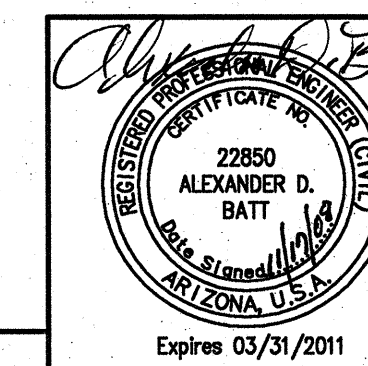
ABBREVIATIONS

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 RIGHT	BLVD	BOULEVARD
CU	COPPER	RT.	RIGHT	AC	ASPHALTIC CONCRETE
F.S.	FIRE SERVICE	LT.	LEFT	ABC	AGGREGATE BASE CONCRETE
ARV	AIR RELEASE VALVE	C	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
CONC	CONCRETE	L	LENGTH	SHT	SHEET
VERT	VERTICAL	D	DEPTH	SDWK	SIDEWALK
STD	STANDARD	G	GUTTER	DEMO	DEMOLITION
DTL	DETAIL	INV	INVERT	DWG	DRAWING
PC/COT	PIMA COUNTY/CITY OF TUCSON			MH	MANHOLE
PC/WWM	PIMA COUNTY/WASTE WATER MANAGEMENT			RD	ROOF DRAIN
S/W	SIDEWALK			FFE	FINISHED FLOOR ELEVATION
				U.G.T.	UNDERGROUND TELEPHONE
				FPS	FIRE PROTECTION SERVICE

GENERAL NOTES

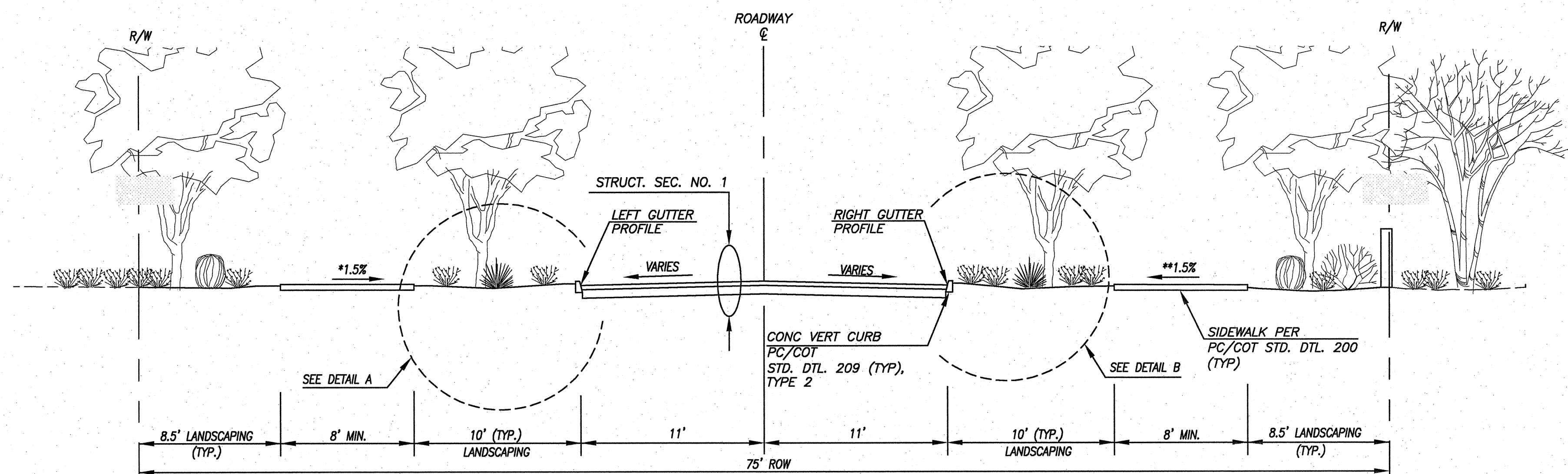
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14TH ST. STREETSCAPE PROJECT

2
OF
71



DRWN. BY	V. HO	REF.	C-CPGN02	SCALE:
DSGN. BY	D. MOSEKE, JD, HP			
CHKD. BY	A. BATT	PLAN NO.	I-2008-027	

NO.	DATE	REVISION	BY	CHKD.	APPR.

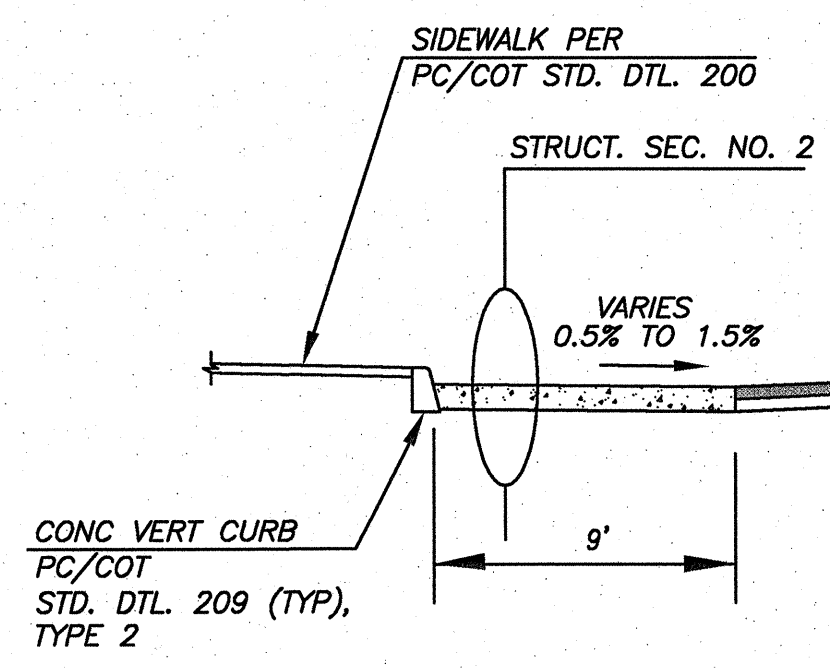


TYPICAL SECTION 1

STA. 11+00 TO STA. 15+71.4
STA. 16+40.3 TO STA. 20+25

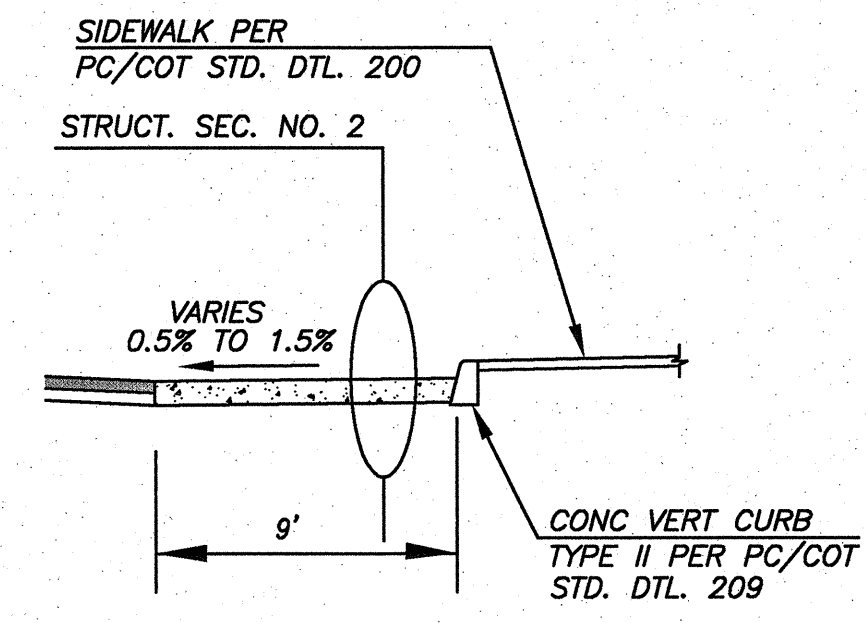
* NOTE: SIDEWALK CROSS SLOPE 1.5% TOWARDS RIGHT-OF-WAY FROM STA: 17+70 TO 18+24
TRANSITION SIDEWALK SLOPE FROM STA: 17+62 TO 17+70 AND STA: 18+24 TO 18+32

** NOTE: SIDEWALK CROSS SLOPE 1.5% TOWARDS RIGHT-OF-WAY FROM STA: 14+86 TO 15+63
TRANSITION SIDEWALK SLOPE FROM STA: 14+78 TO 14+86 AND STA: 15+63 TO 15+71



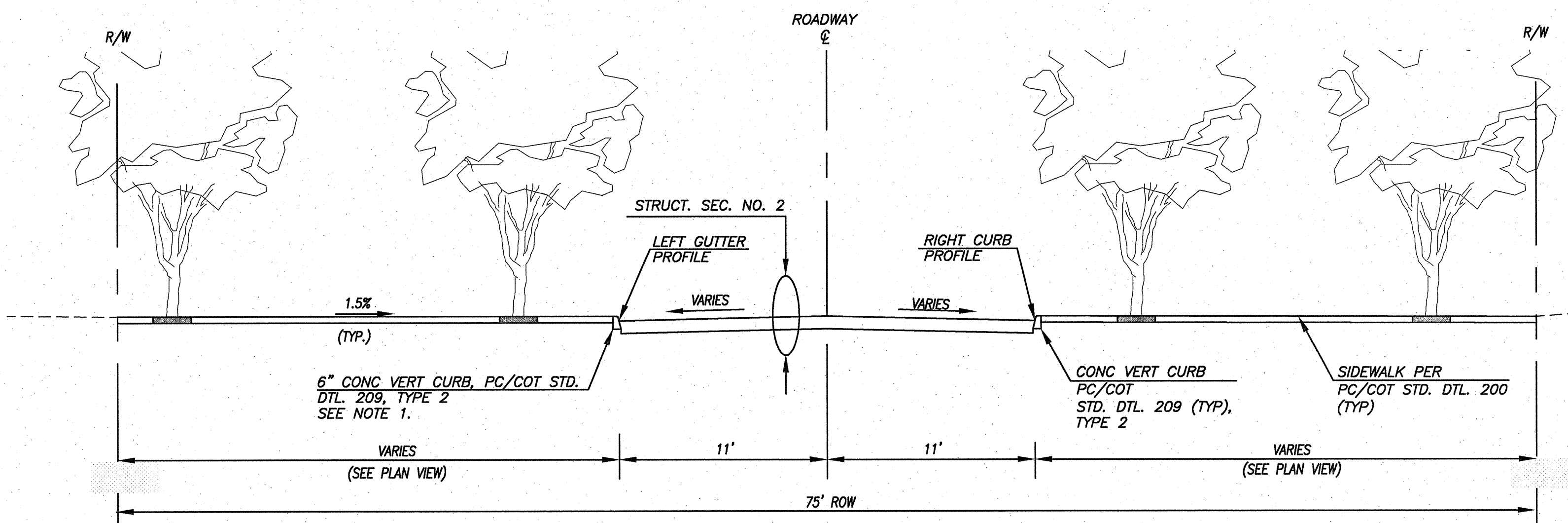
**DETAIL A
PARALLEL PARKING**

STA. 18+68.31 TO 19+58.62



**DETAIL B
PARALLEL PARKING**

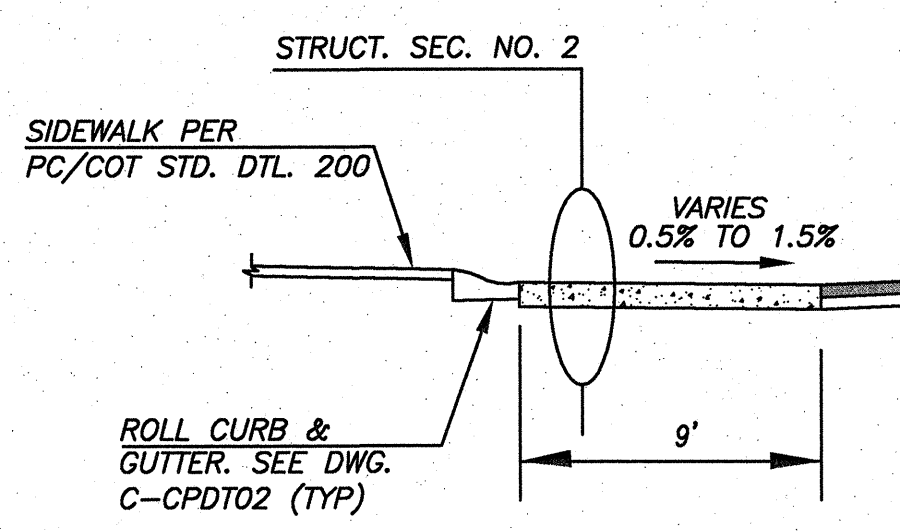
STA. 11+43.32 TO 12+10.47
STA. 18+23.76 TO 18+73.99
STA. 19+55.84 TO 20+01.30



TYPICAL SECTION 2

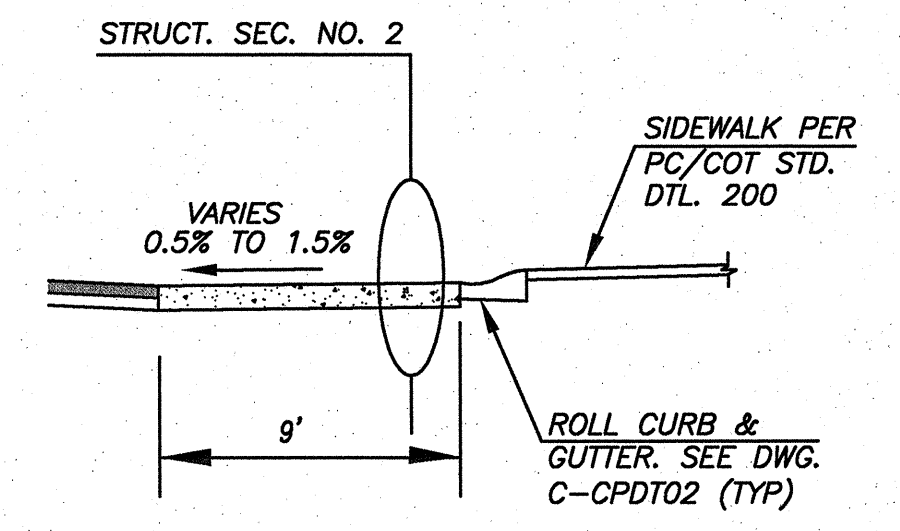
STA. 15+71.4 TO STA. 16+40.3
STA. 22+21.5 TO STA. 22+82.4

NOTES:
1. STA 22+21.5 TO 22+82.4, ROLL CURB & GUTTER. SEE DWG. C-CPDT02.
2. STA 22+21.5 TO 22+82.4, 2' RIBBON CURB, SEE DWG. C-CPDT02.



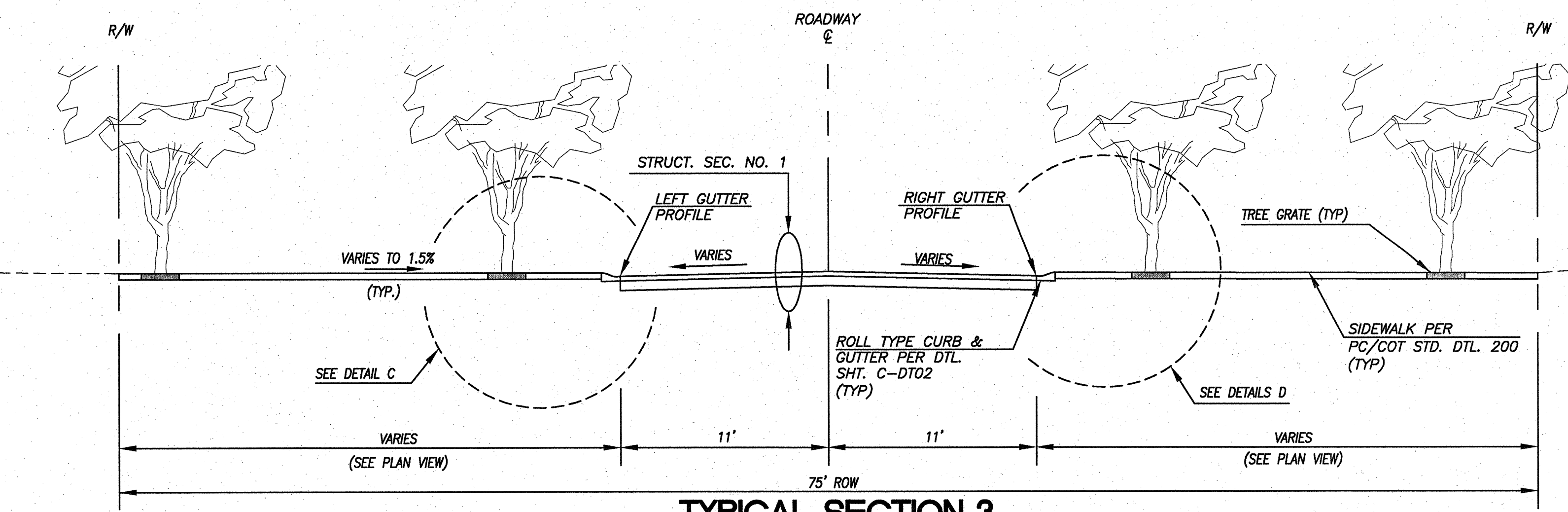
**DETAIL C
PARALLEL PARKING**

STA. 20+80.00 TO 22+16.56



**DETAIL D
PARALLEL PARKING**

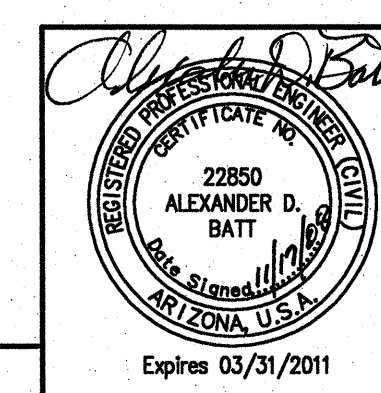
STA. 23+67.46 TO 24+38.93



TYPICAL SECTION 3

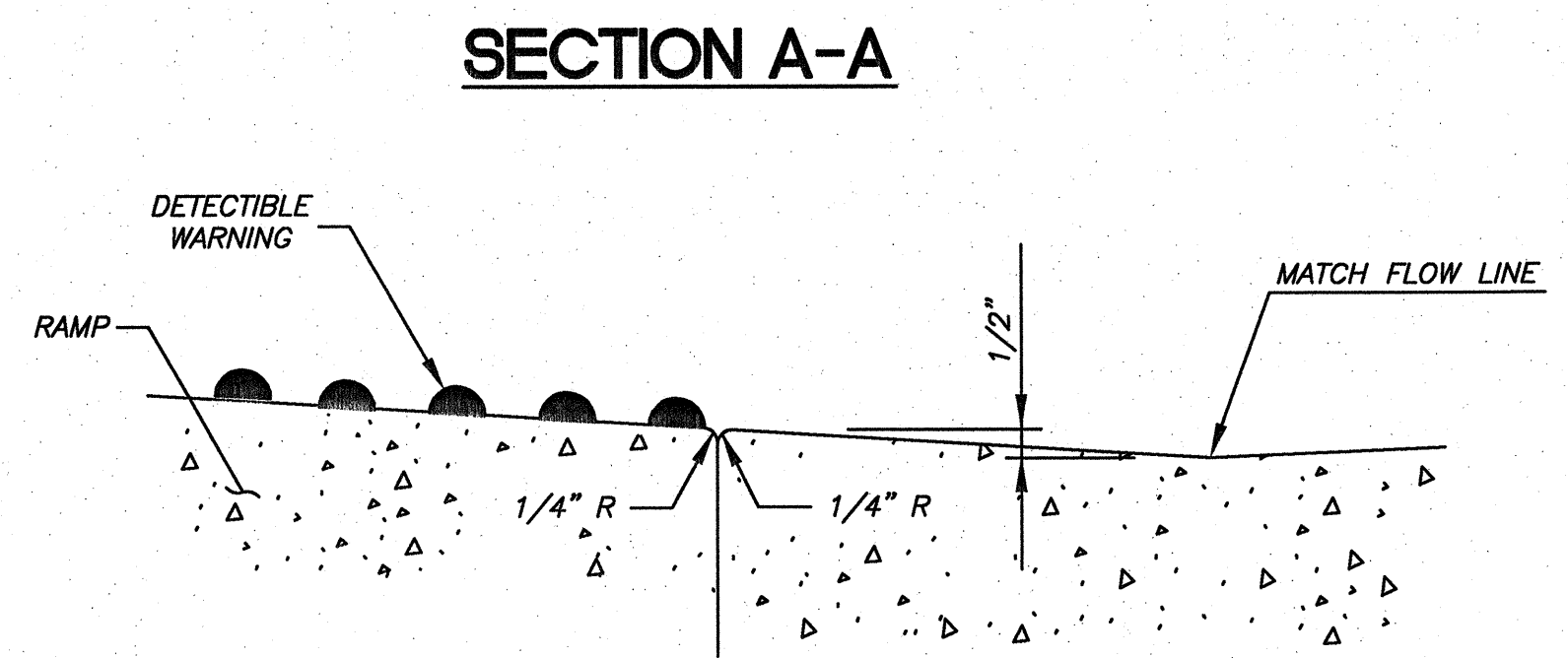
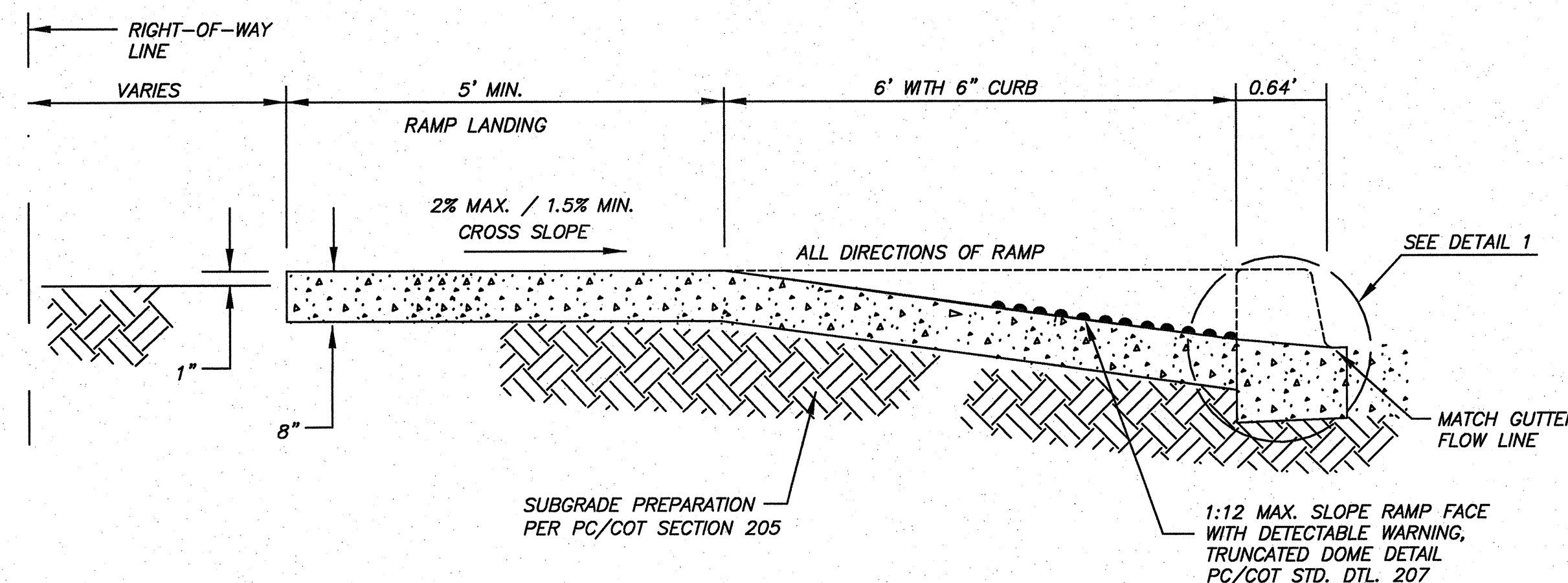
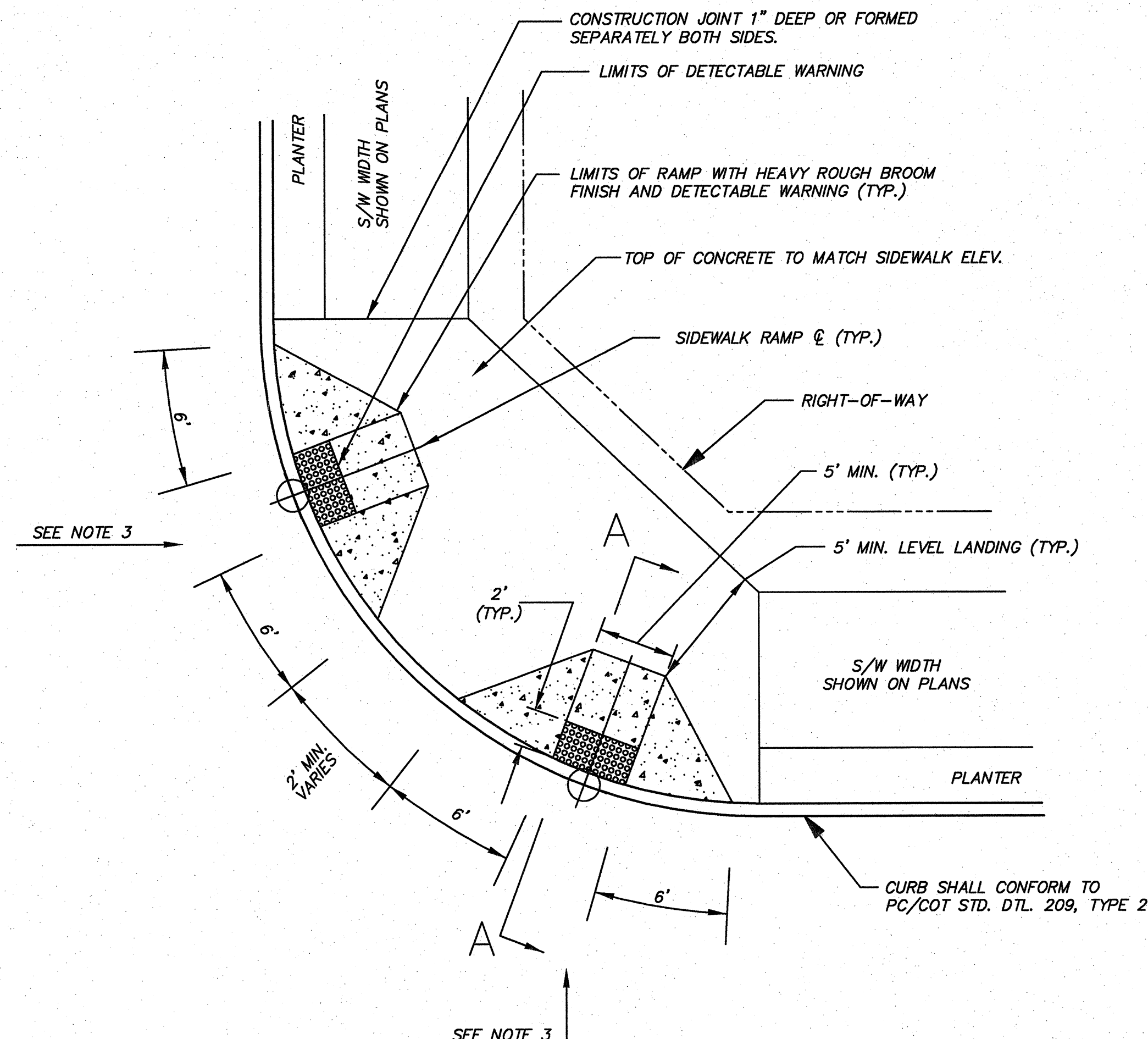
STA. 20+25 TO STA. 22+21.5
STA. 22+82.4 TO STA. 24+73

TYPICAL SECTIONS



CITY OF TUCSON DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-CPGN03 SCALE: PLAN NO. I-2008-027	3 OF 71
		NO. DATE REVISION BY CHKD. APPR.		

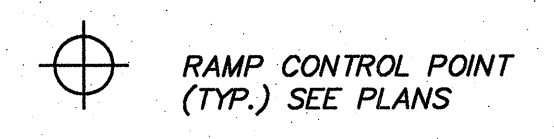
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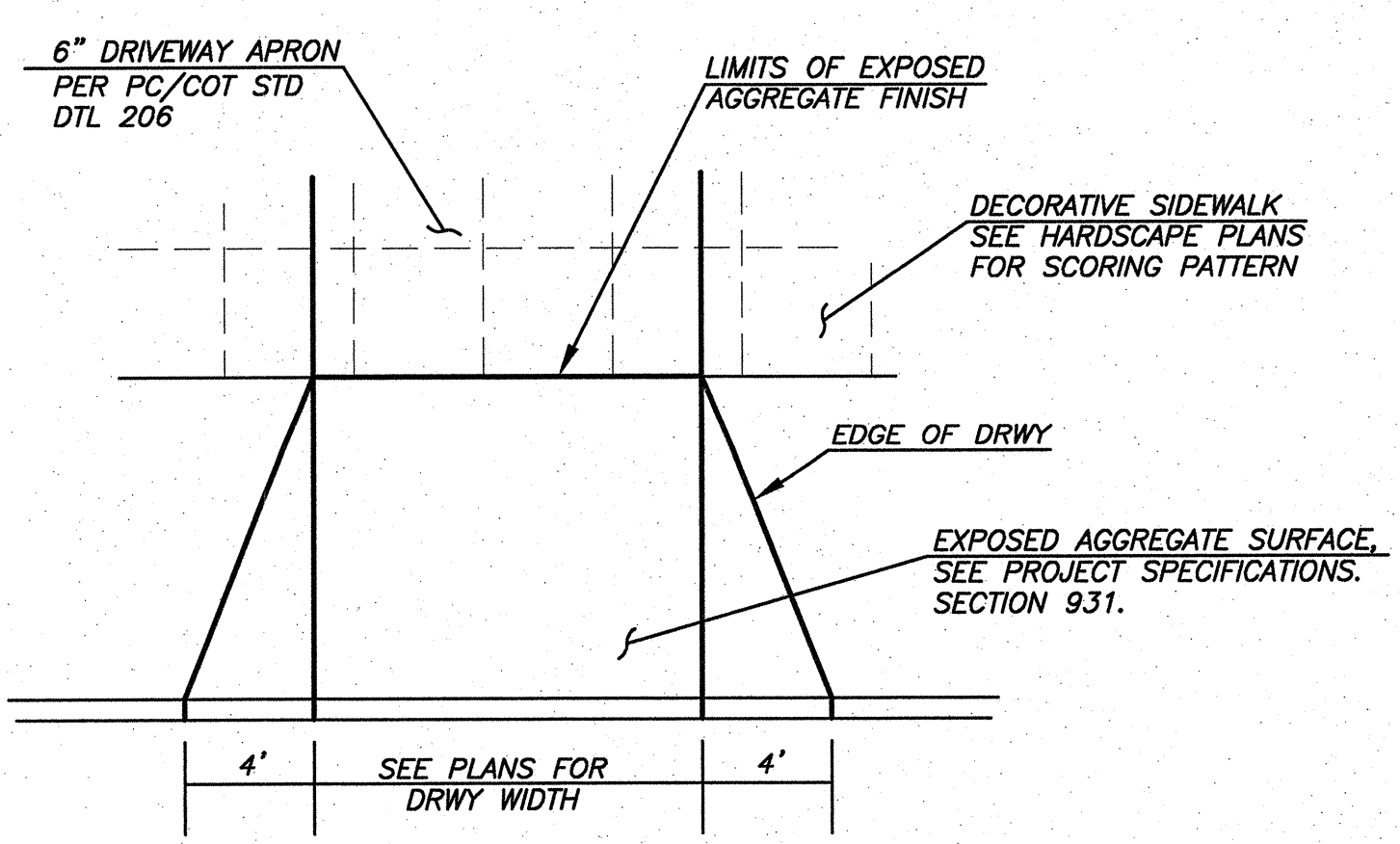
1. ALL CONCRETE TO BE CLASS "B".
2. ALL RAMP AND DETECTABLE WARNING SHALL BE ALIGNED PERPENDICULAR TO THE CURB AT THE RAMP CONTROL POINT. CROSSWALKS SHALL BE ALIGNED PERPENDICULAR TO THE STREET CENTERLINE AS MUCH AS POSSIBLE.
3. SEE PLANS FOR LOCATION OF SIDEWALK RAMP CENTERLINE.
4. UNLESS OTHERWISE 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



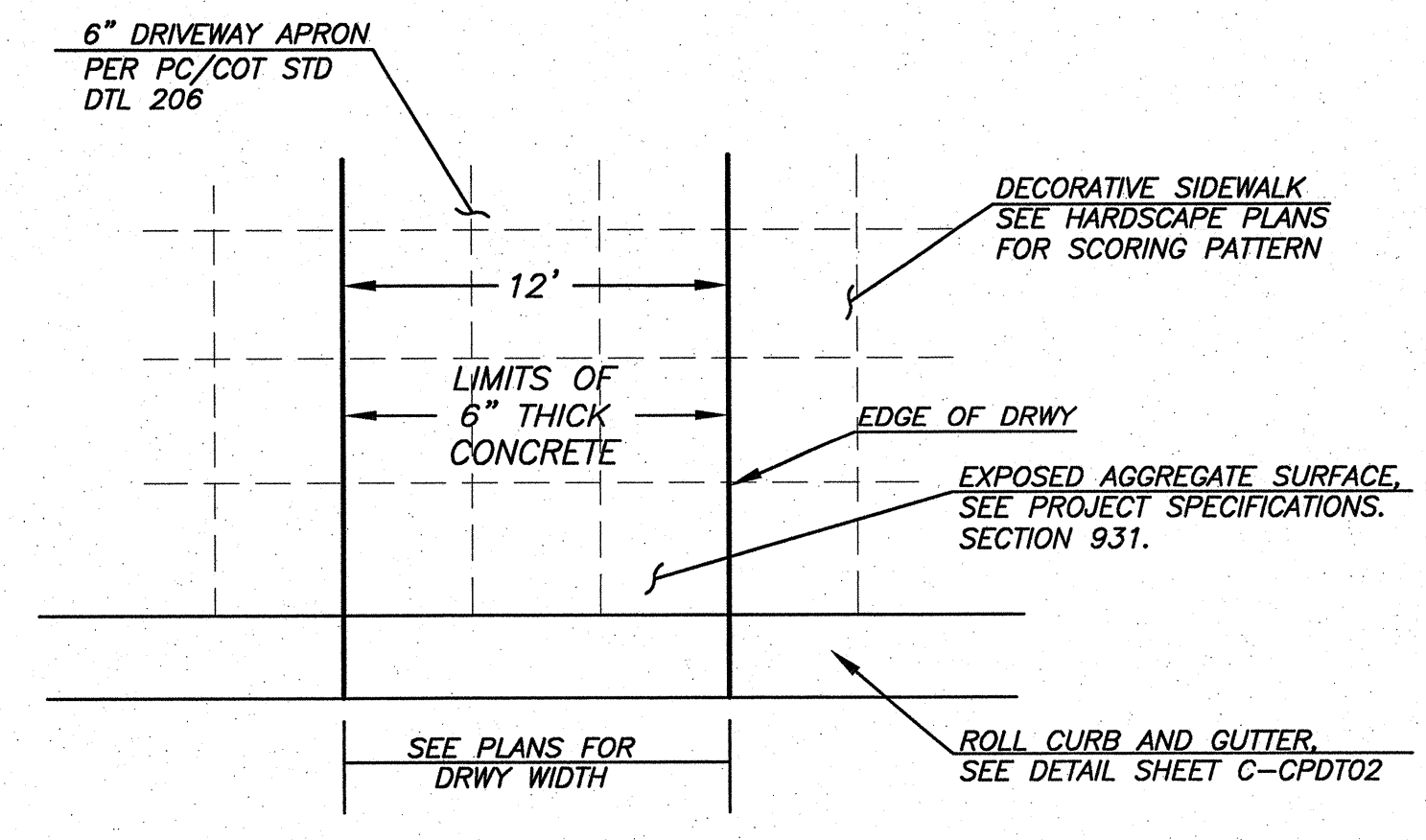
CURB ACCESS RAMP, PC/COT DTL 207, TYPE 1 (MOD)

NTS



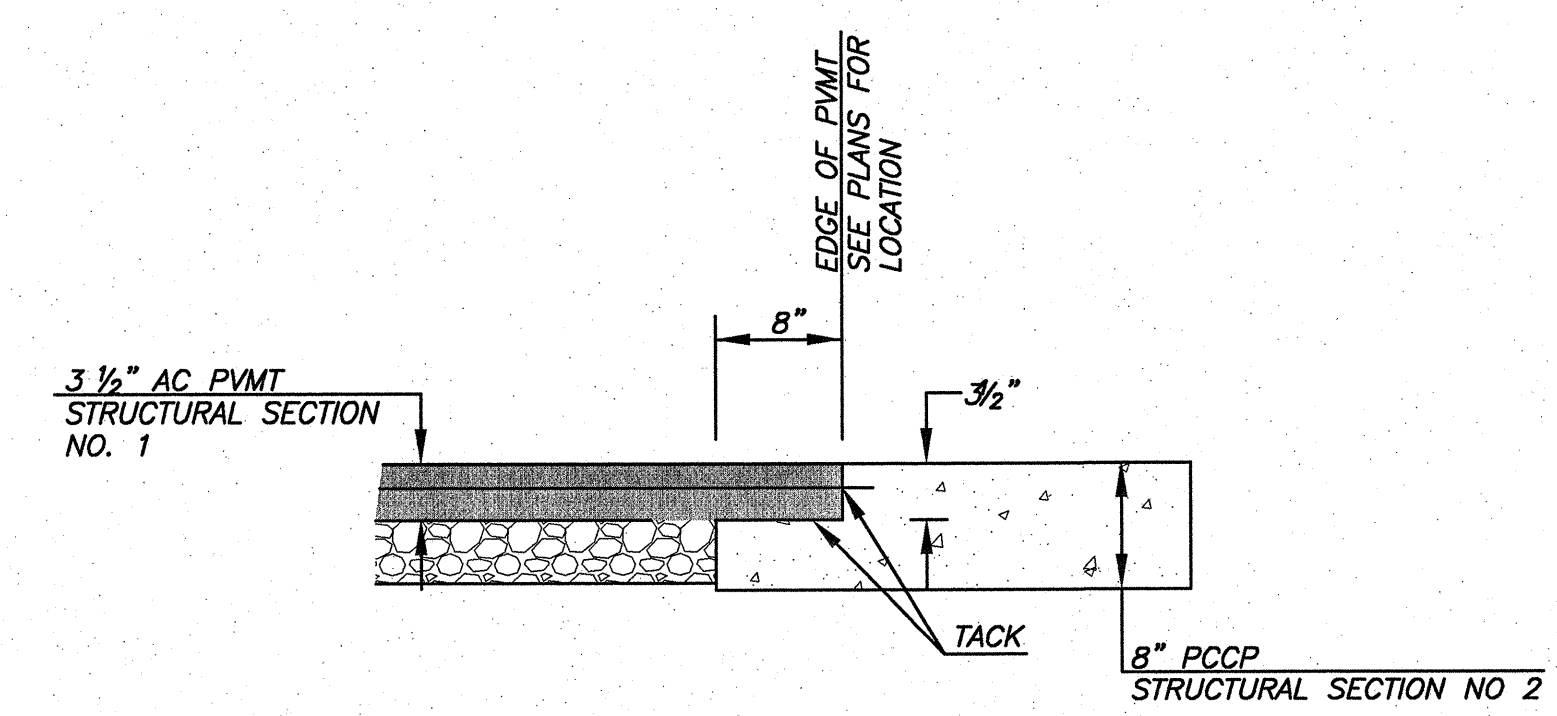
DRIVEWAY APRON, PC/COT STD DTL 206 (MOD)

NTS



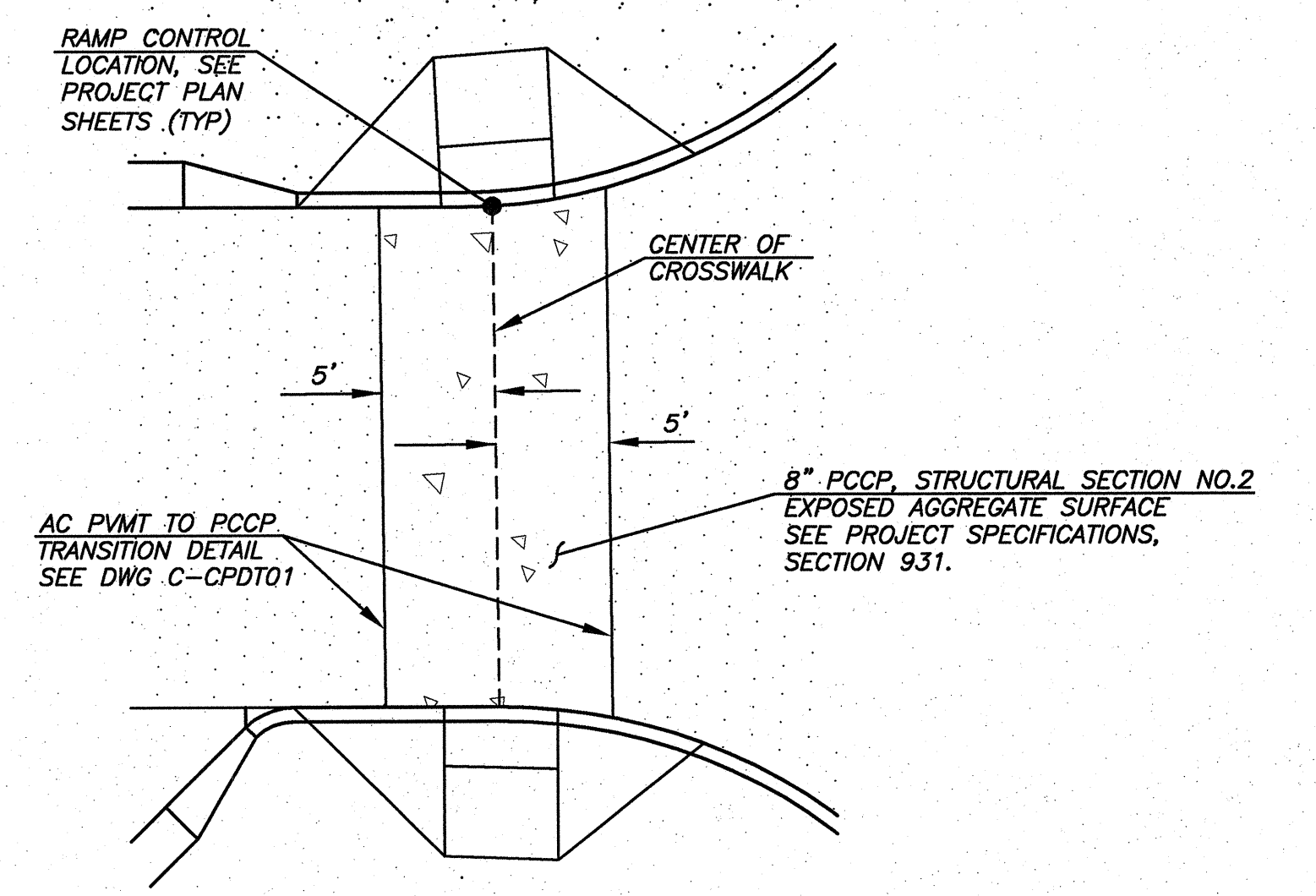
DRIVEWAY APRON, PC/COT STD DTL 206 (MOD) WITH ROLL CURB AND GUTTER

NTS



AC PVMT TO PCCP TRANSITION

NTS

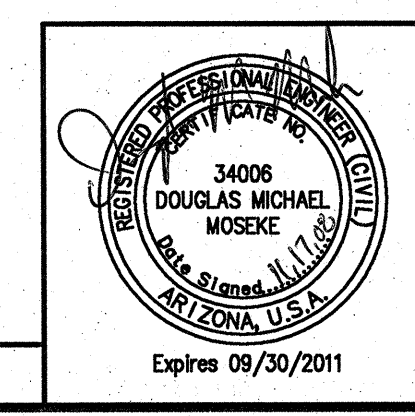


CONCRETE CROSSWALK

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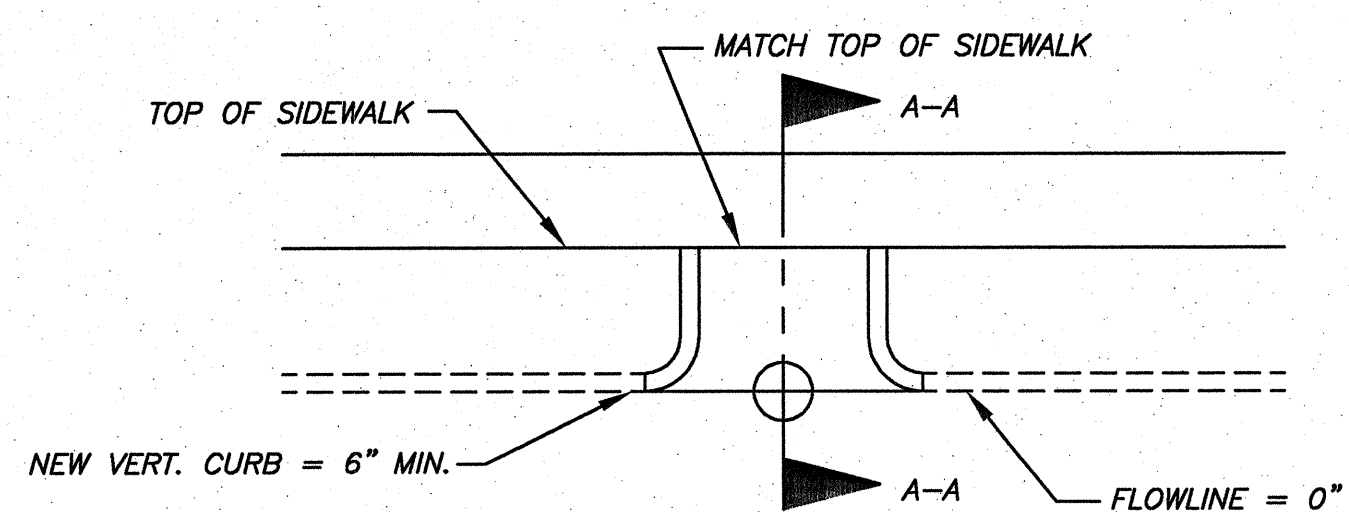
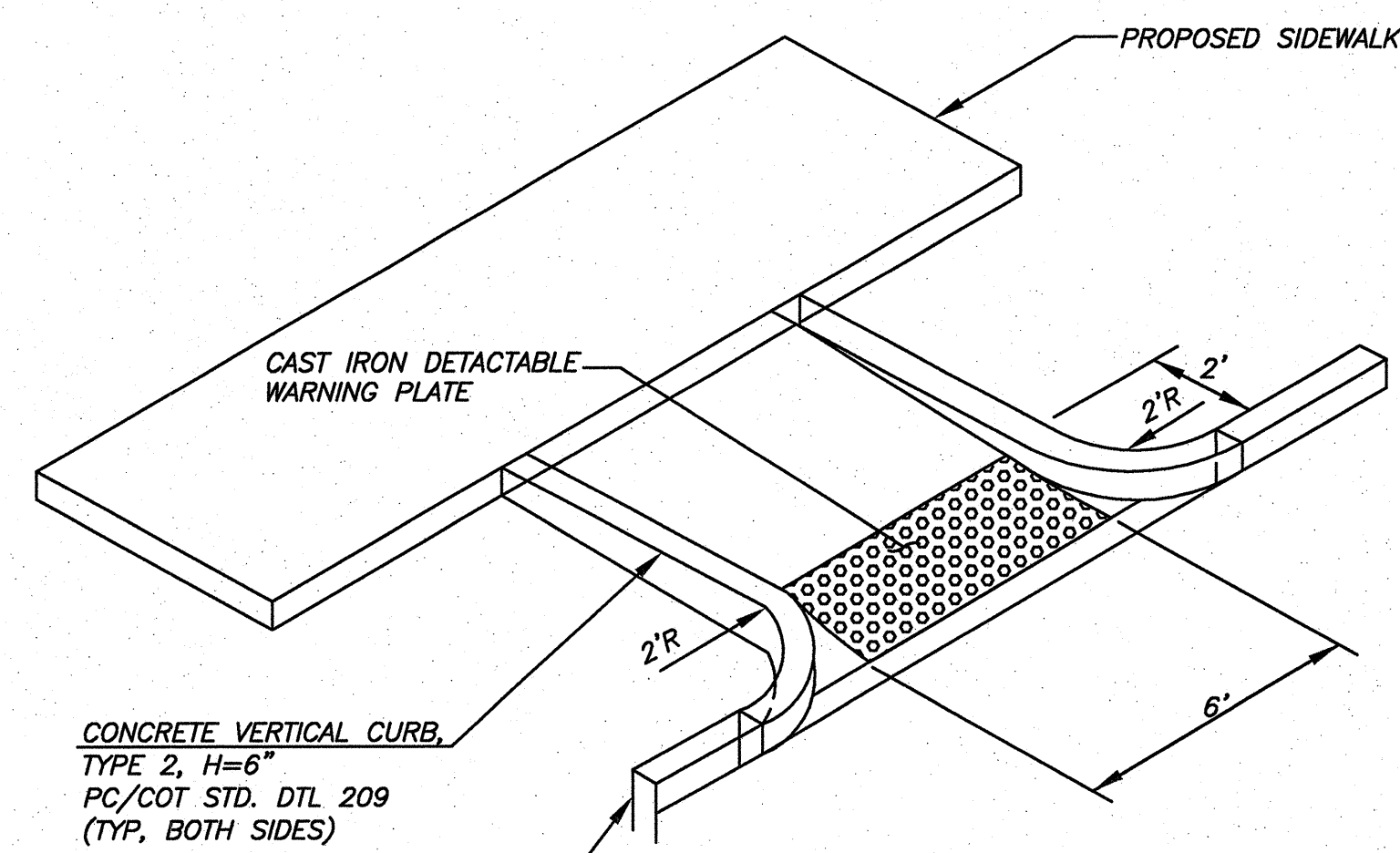
ROADWAY DETAILS

NO.	DATE	REVISION	BY	CHKD.	APPR.

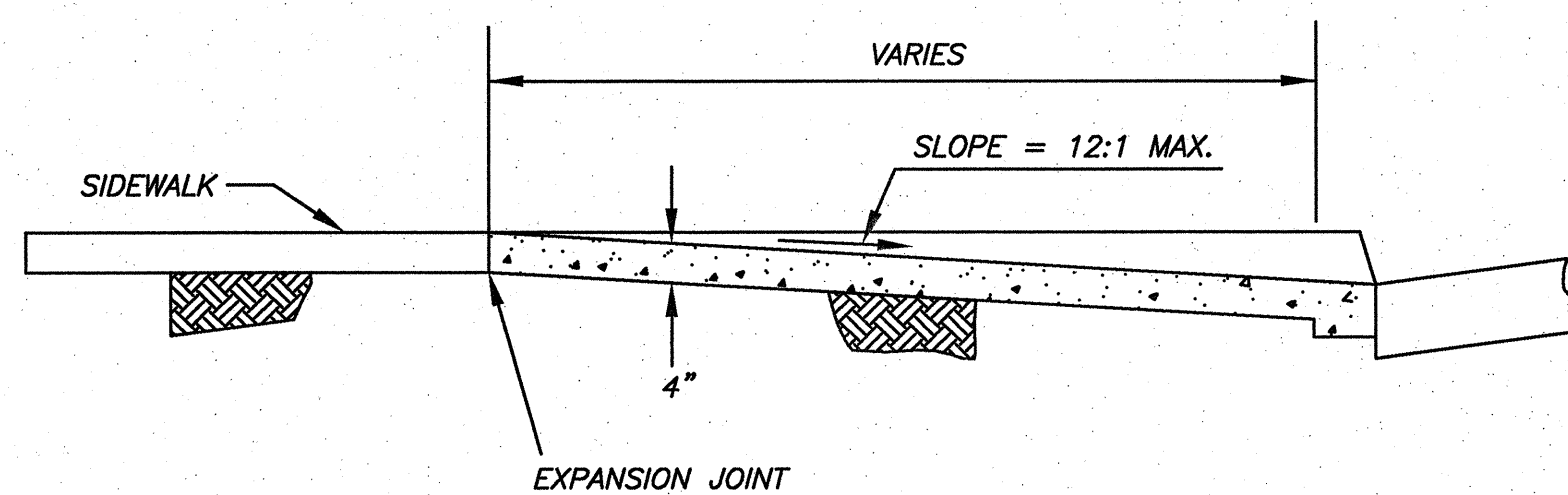


		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		5 OF 71
		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-CPDT01 SCALE: PLAN NO. I-2008-027	

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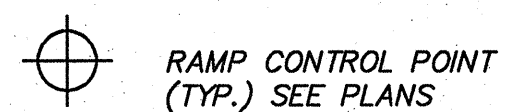


CONTROL ELEVATIONS



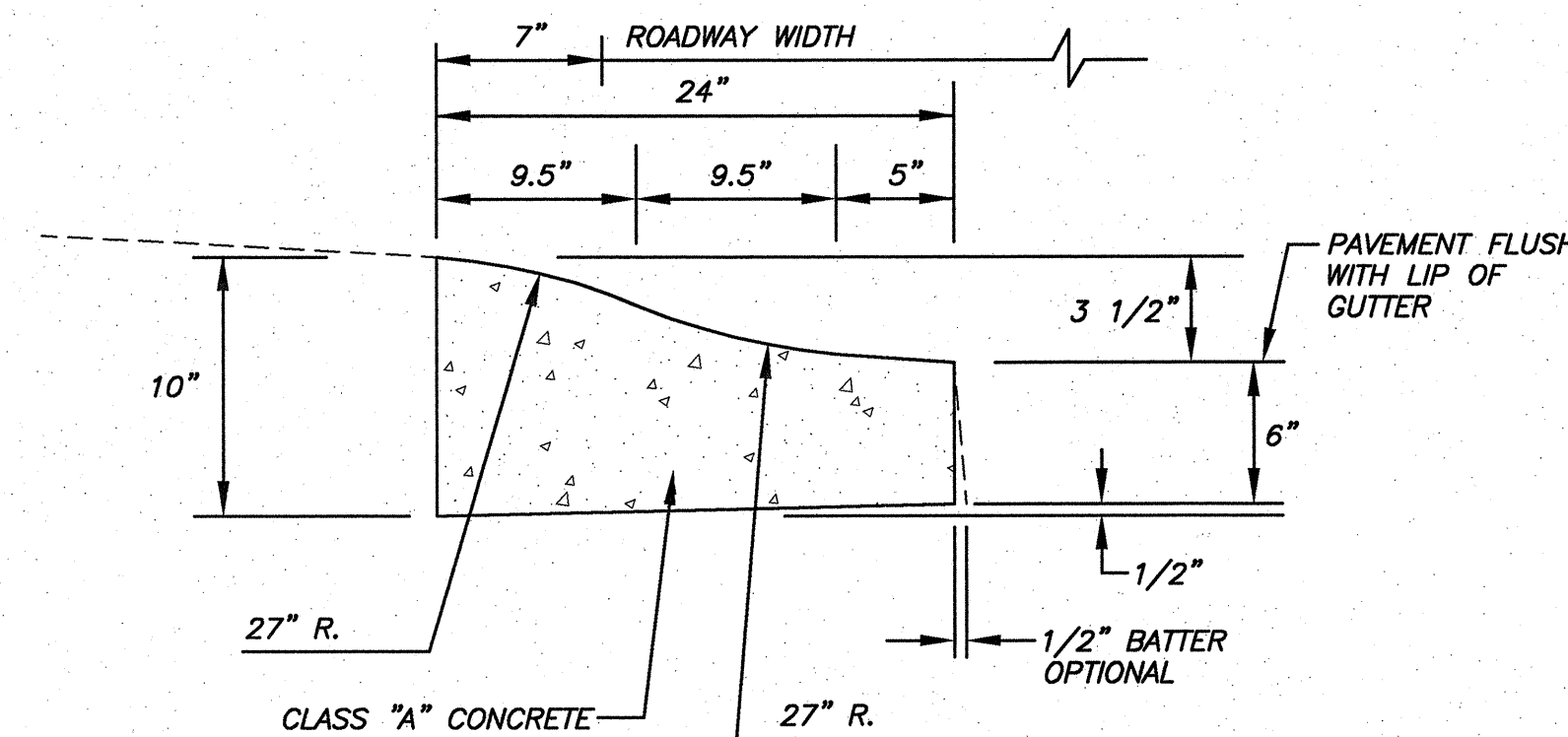
SECTION A-A

LEGEND



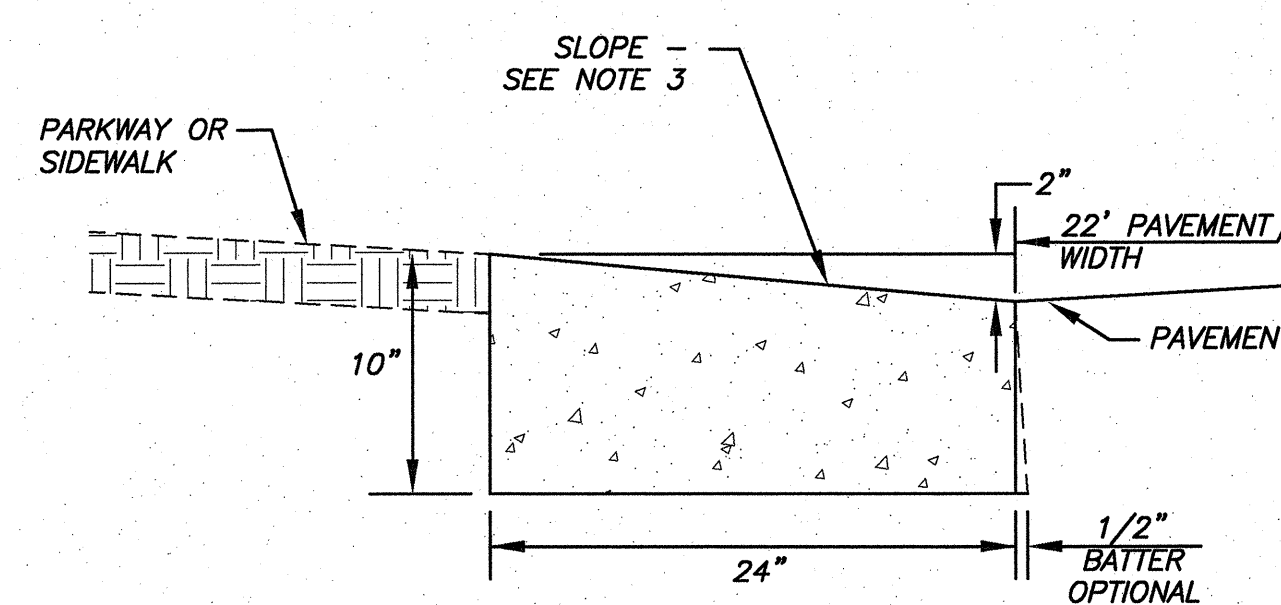
NOTES

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 PLATES SHALL BE CONSTRUCTED OF CAST IRON. ALL WARNING PLATES 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.



ROLL CURB AND GUTTER

NTS



RIBBON CURB

NTS

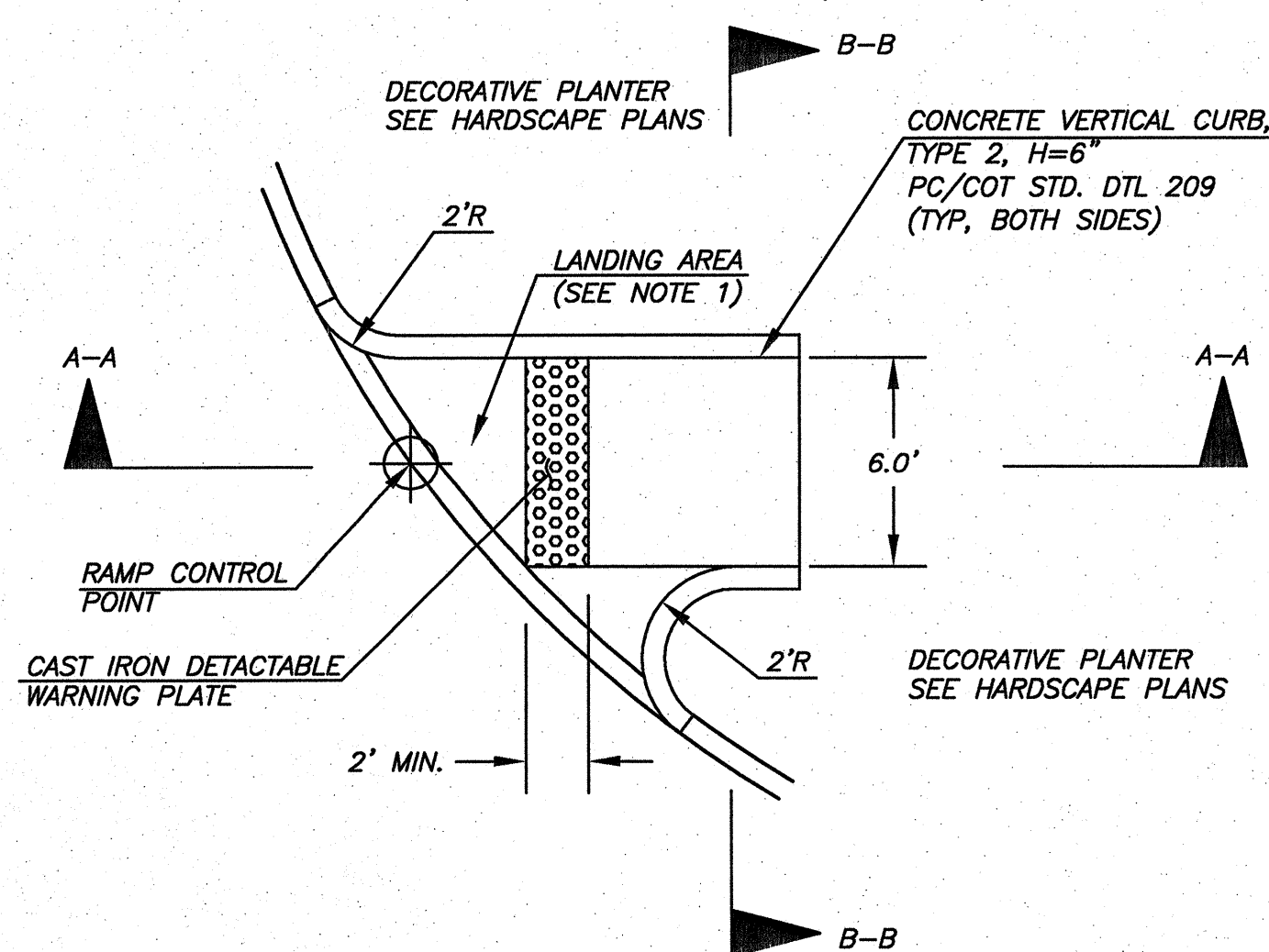
1. CONSTRUCT CURB AND INSTALL 1/2" BITUMINOUS JOINT FILLER PER PIMA COUNTY STANDARD SPEC. 908-2.02.
2. BROOM FINISH ALL SURFACES.
3. RIBBON CURB MAY SLOPE TOWARDS THE PAVEMENT OR PARKWAY AS INDICATED ON PLANS.
4. CONCRETE SHALL BE CLASS 'A' PER PIMA COUNTY STANDARD SPEC. 908-2.01.

HISTORIC SIDEWALK RAMP DETAIL

NTS

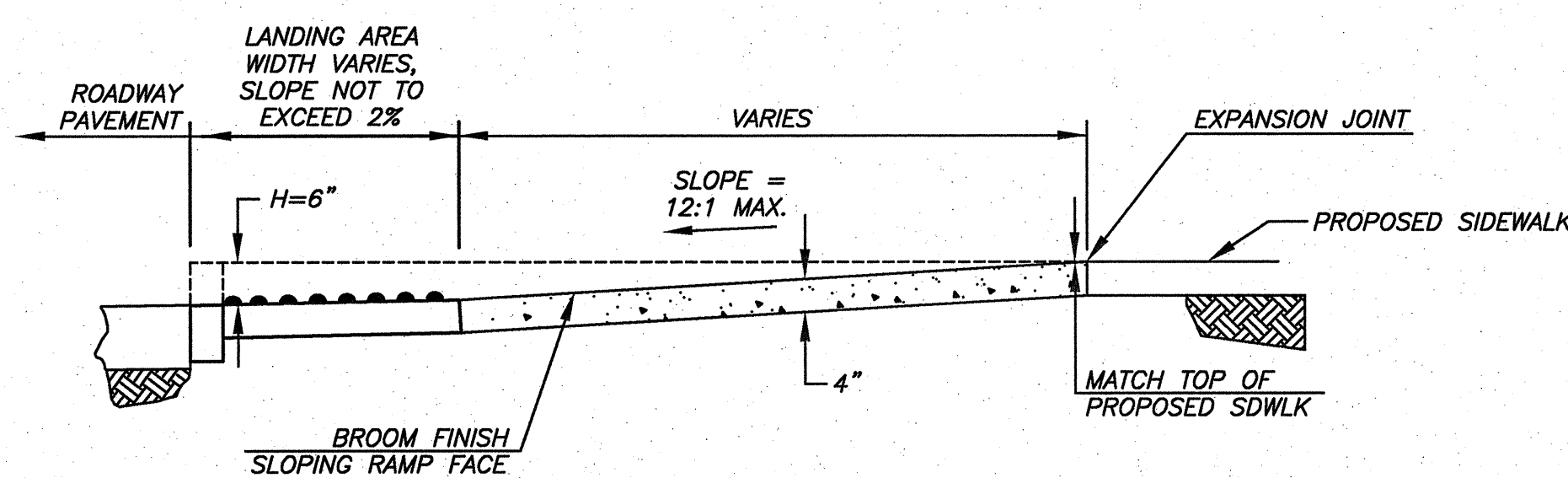
NOTES

1. NO POINT THAT FALLS WITHIN THE LANDING AREA SHALL HAVE A CROSS SLOPE THAT EXCEEDS 2%.
2. SEE NOTES FOR HISTORIC SIDEWALK RAMP (SEE ABOVE).

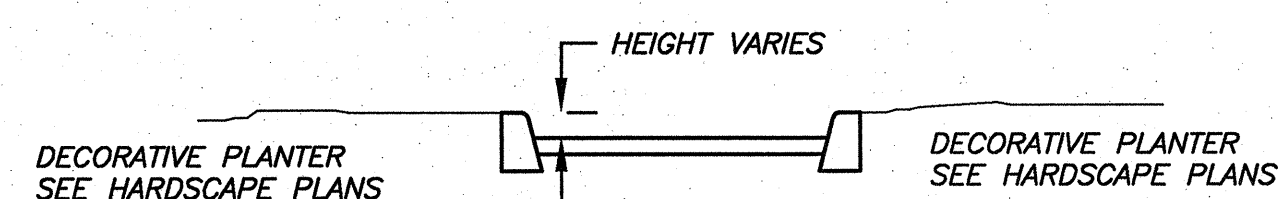


HISTORIC SIDEWALK RAMP (MOD) DETAIL

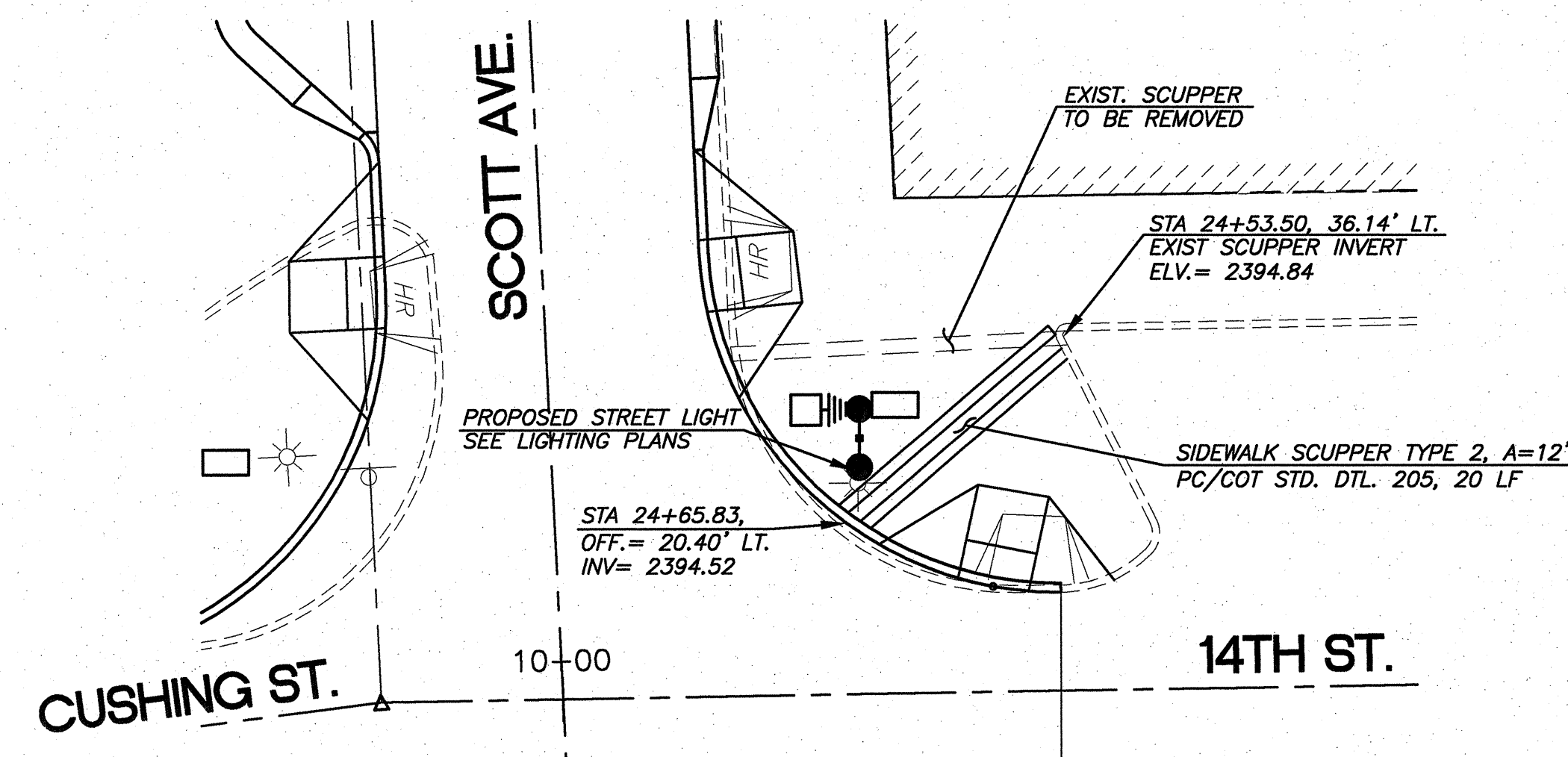
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SECTION A-A



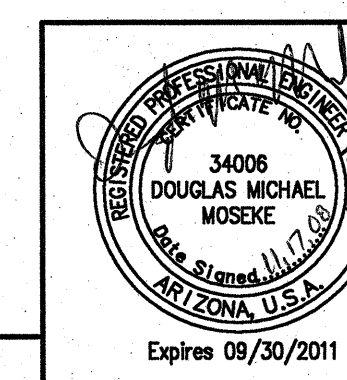
SECTION B-B



STA. 24+64.83, SCOTT AVE. SCUPPER

1"=10'

ROADWAY DETAILS



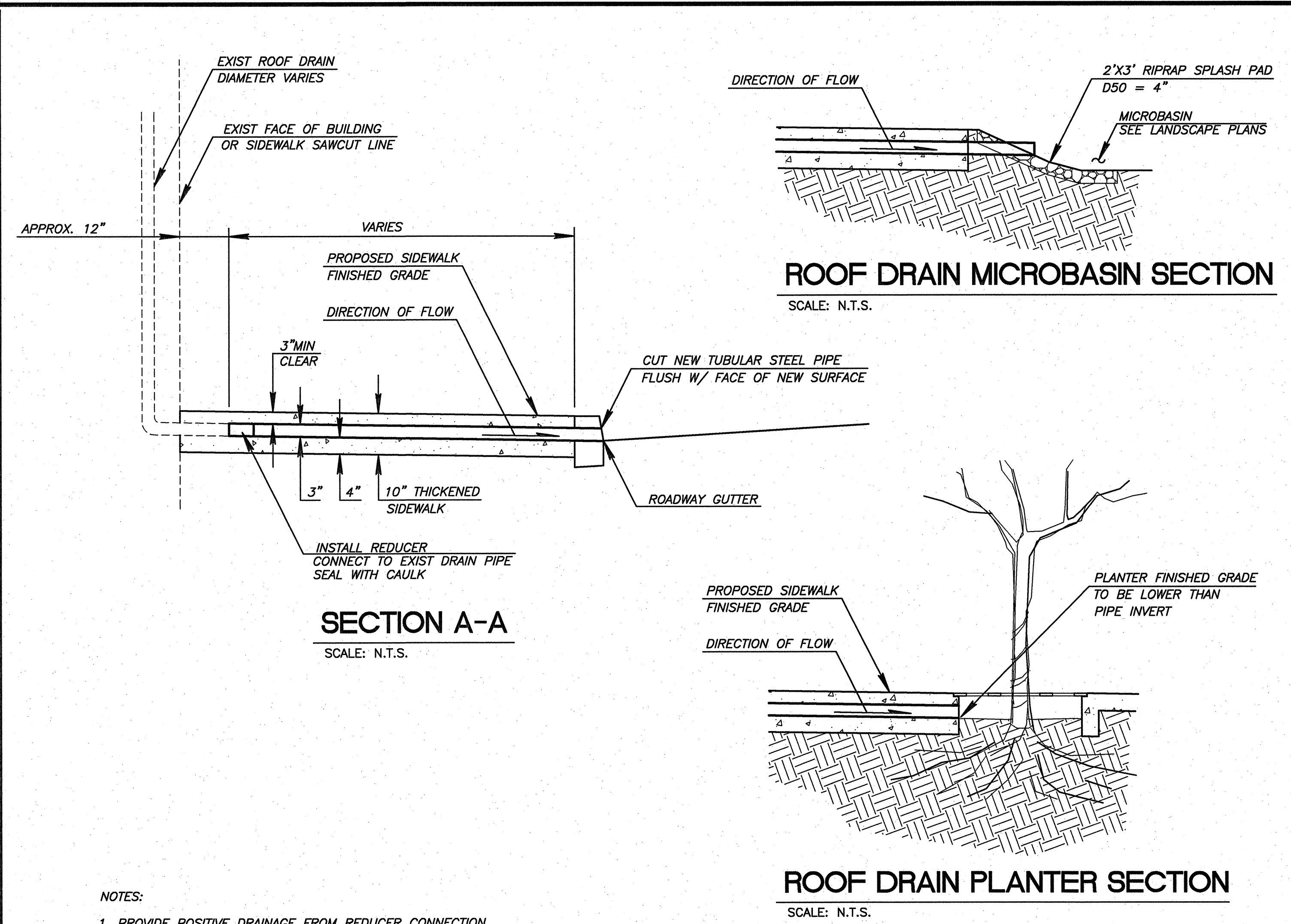
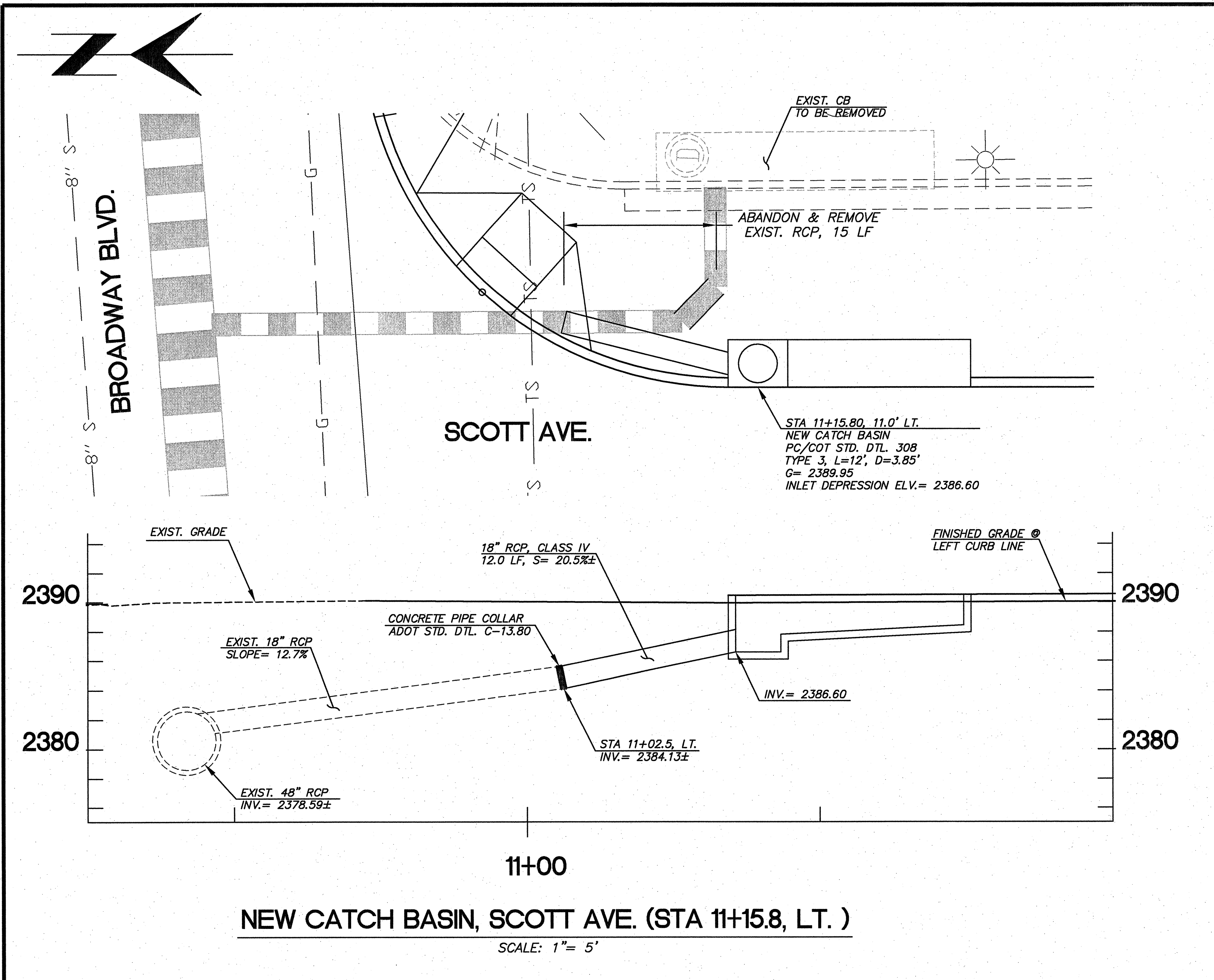
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

6 OF 71

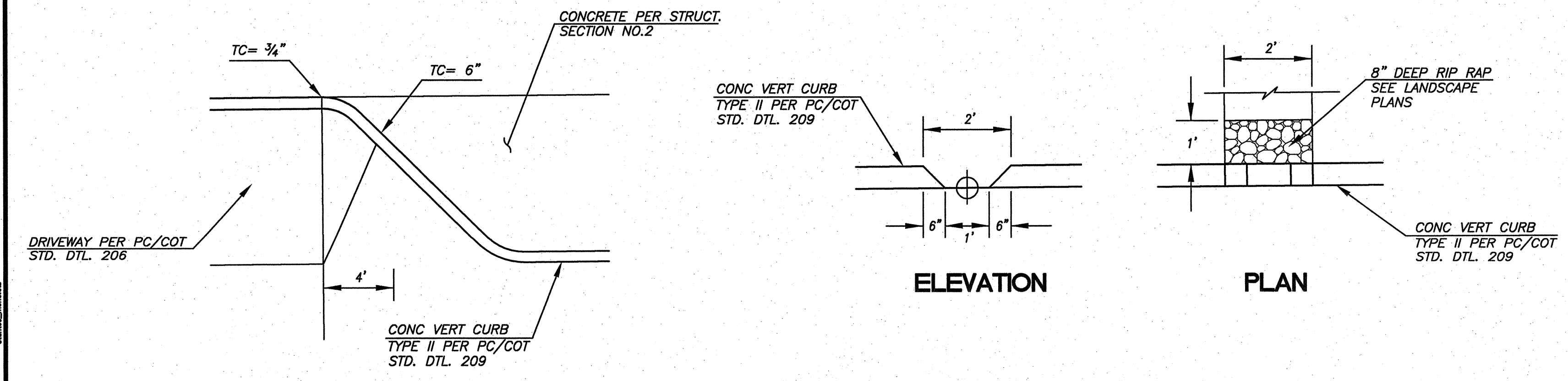
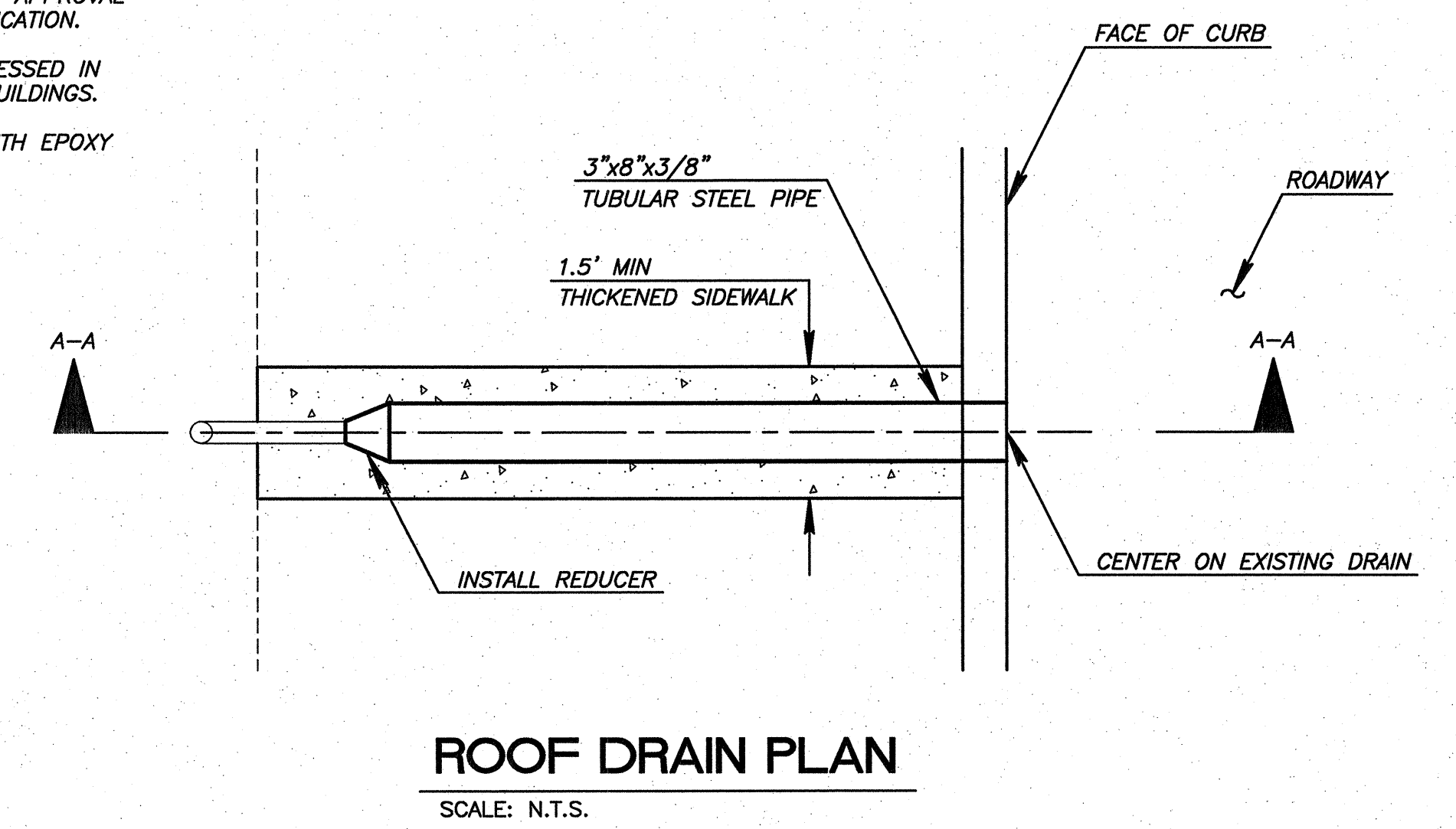
DRWN. BY	V. HO
DSGN. BY	D. MOSEKE, JD, HP
CHKD. BY	A. BATT

REF.	C-CPDT02	SCALE:	
PLAN NO.	I-2008-027		

NO.	DATE	REVISION	BY	CHKD.	APPR.



- 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.

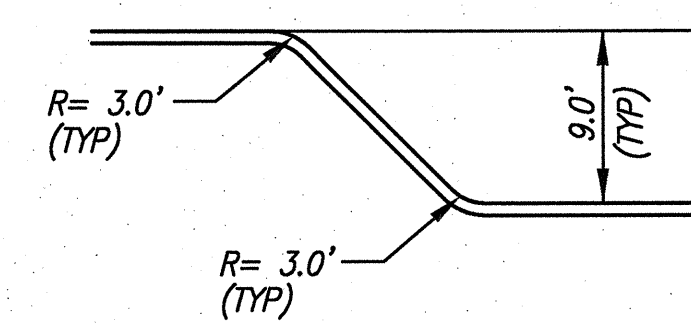
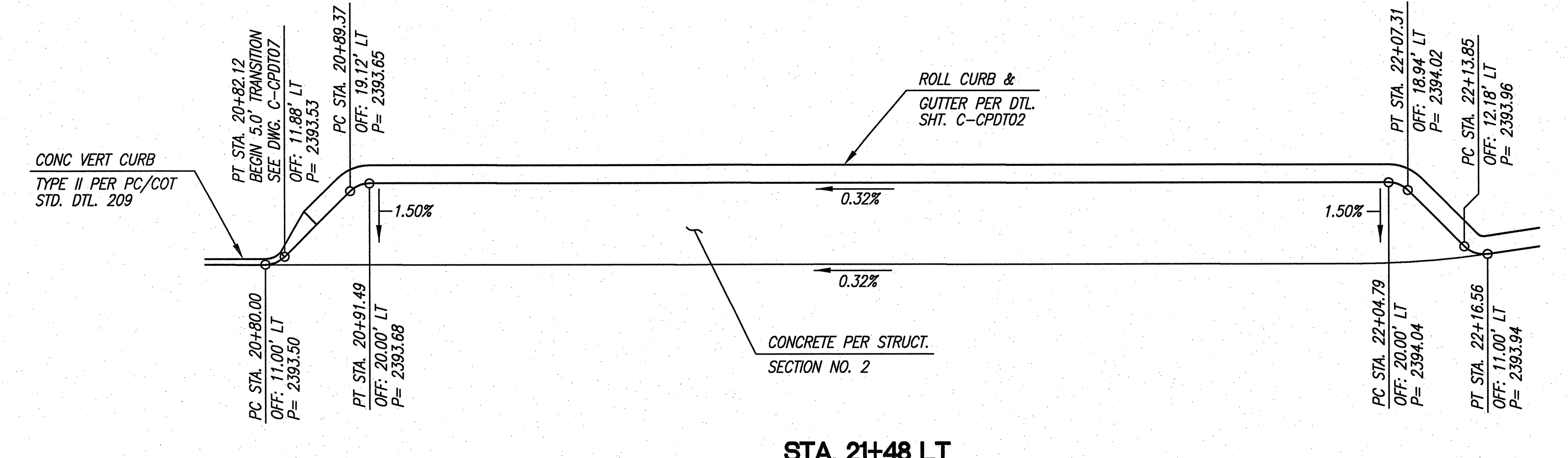
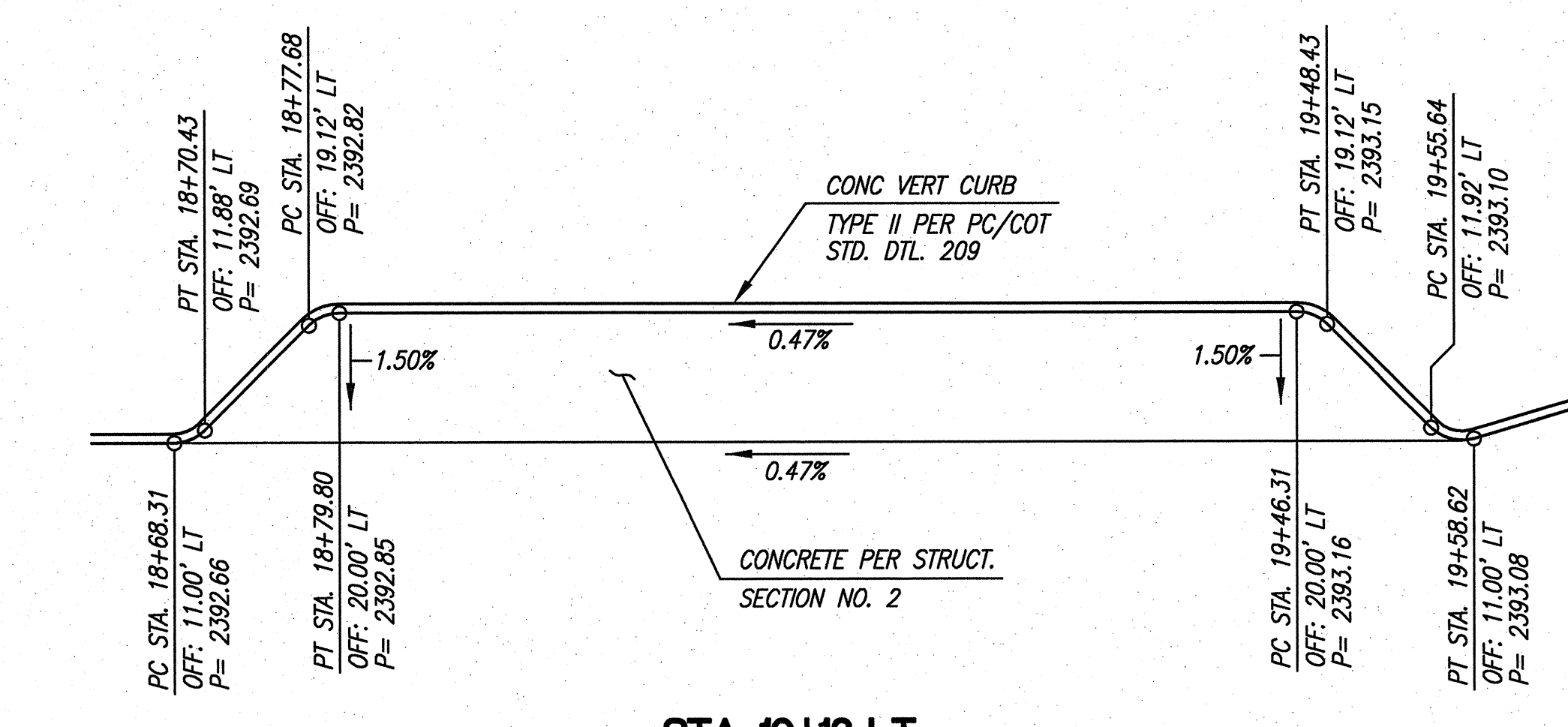
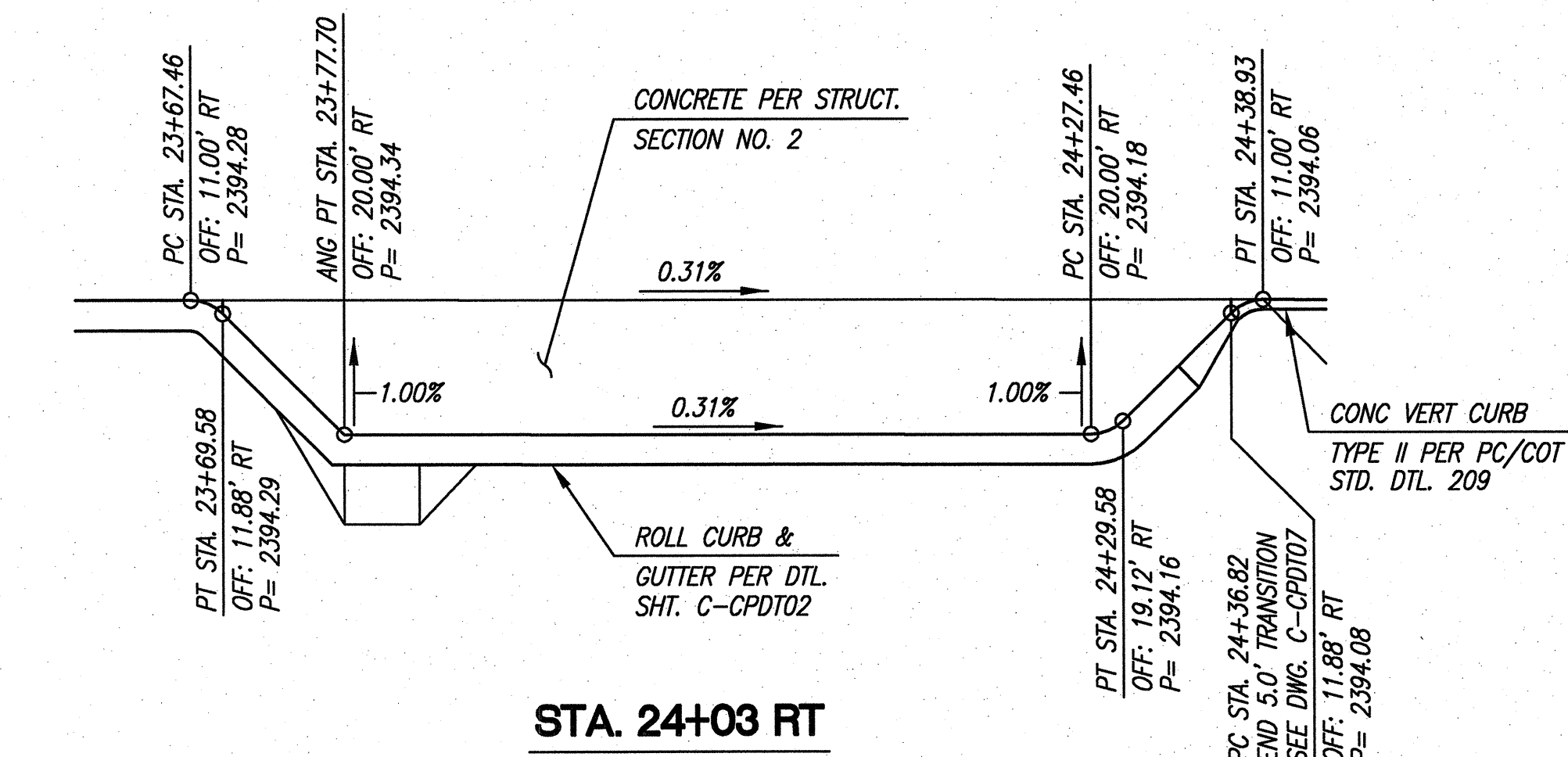
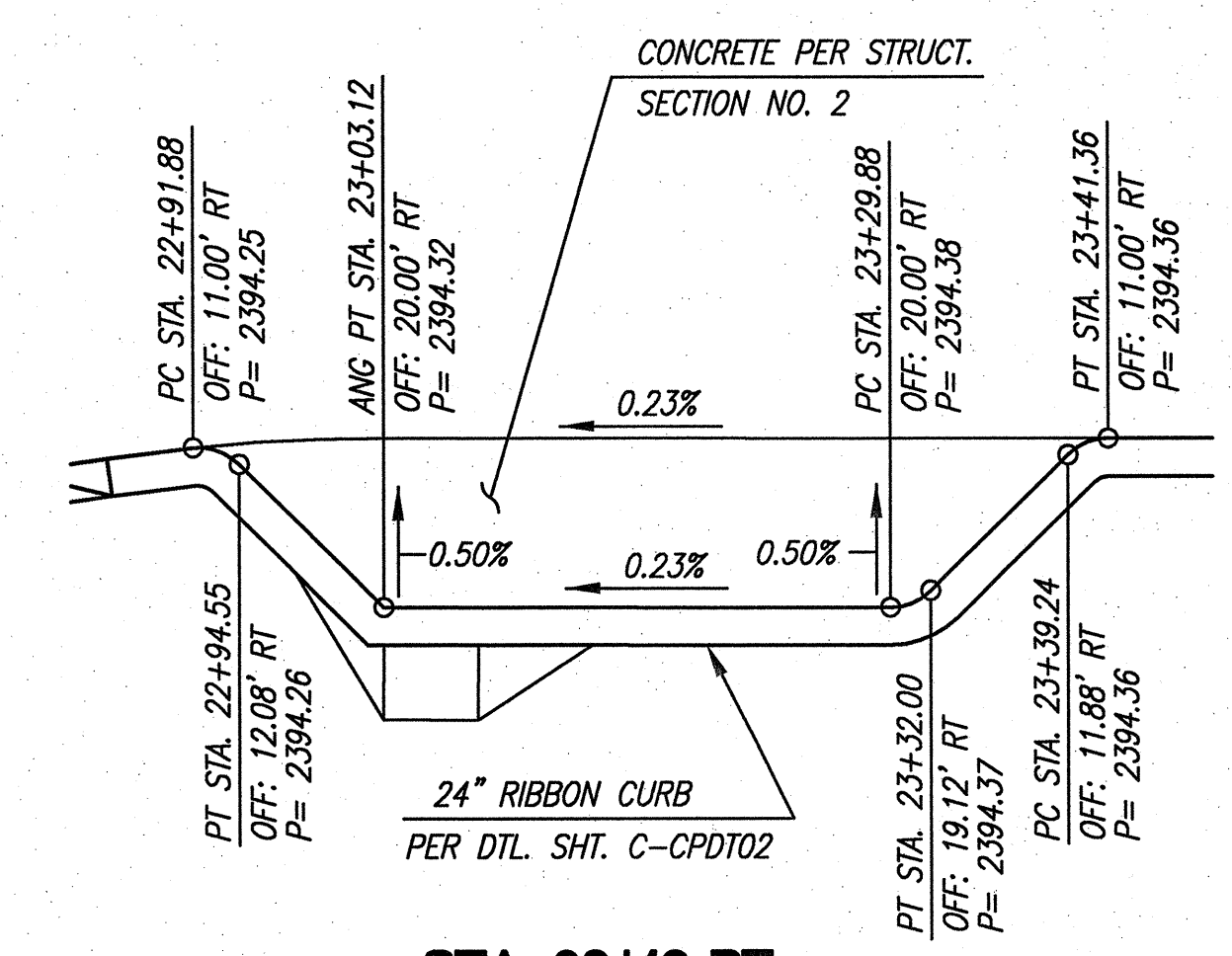
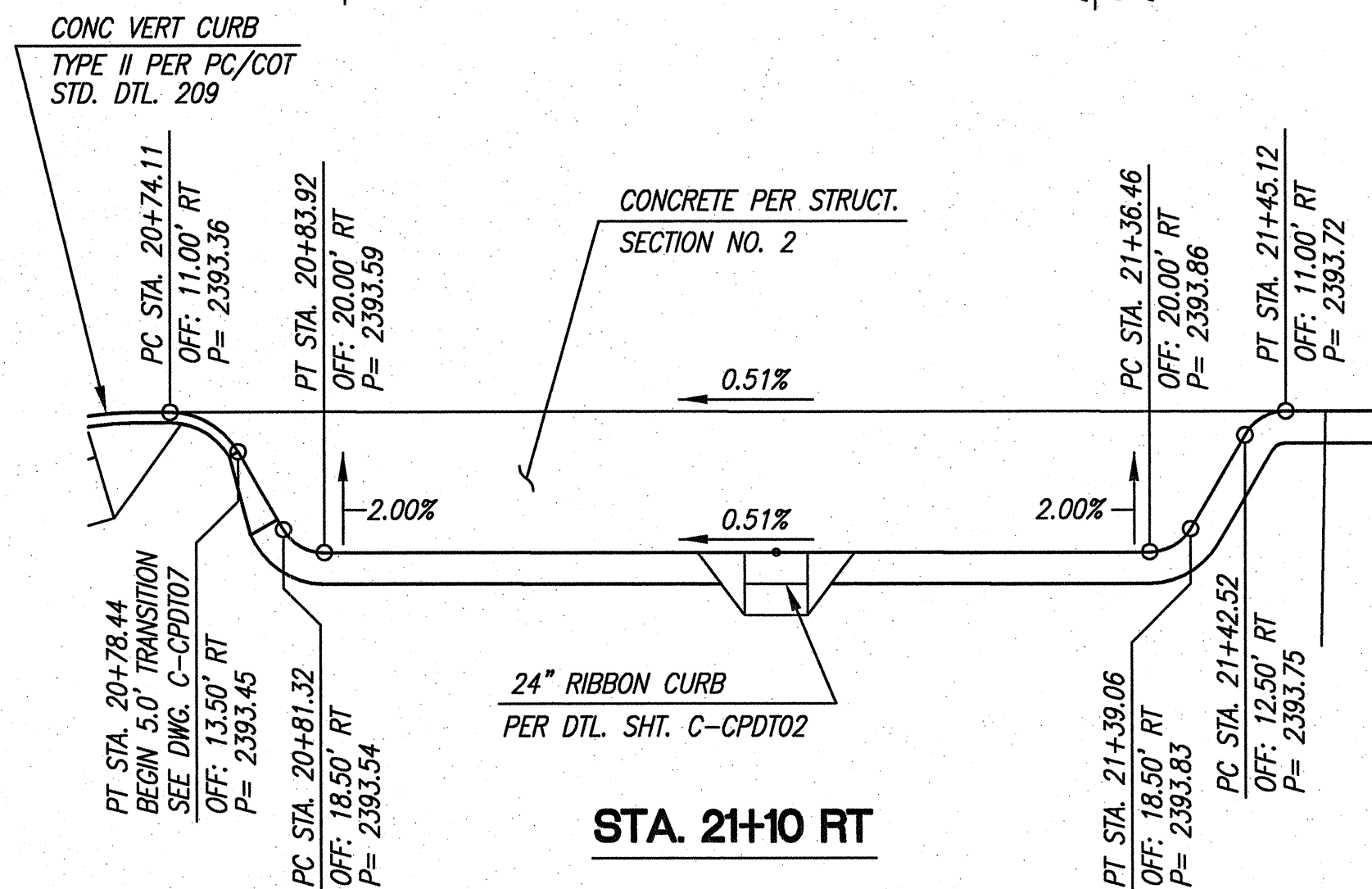
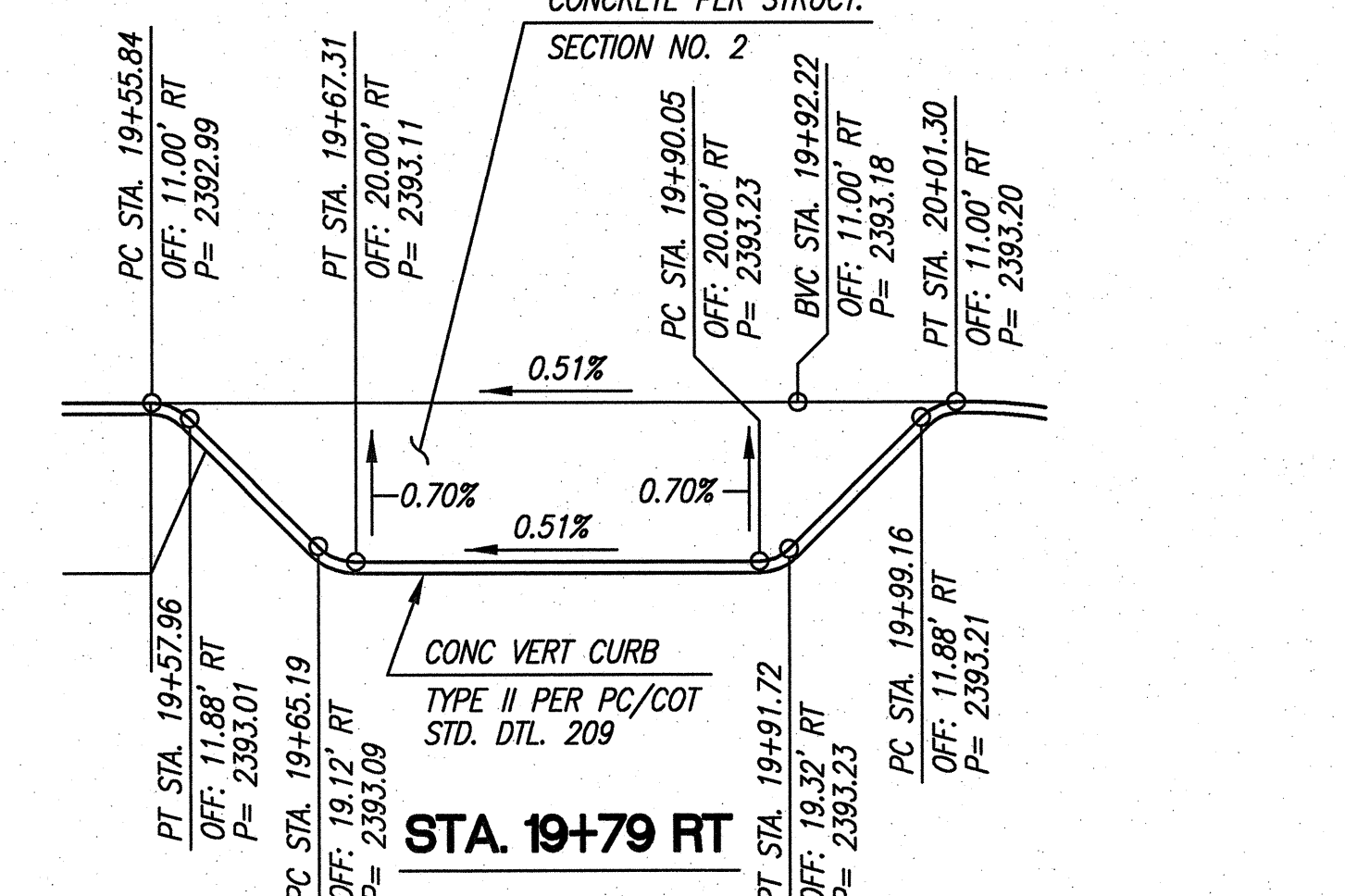
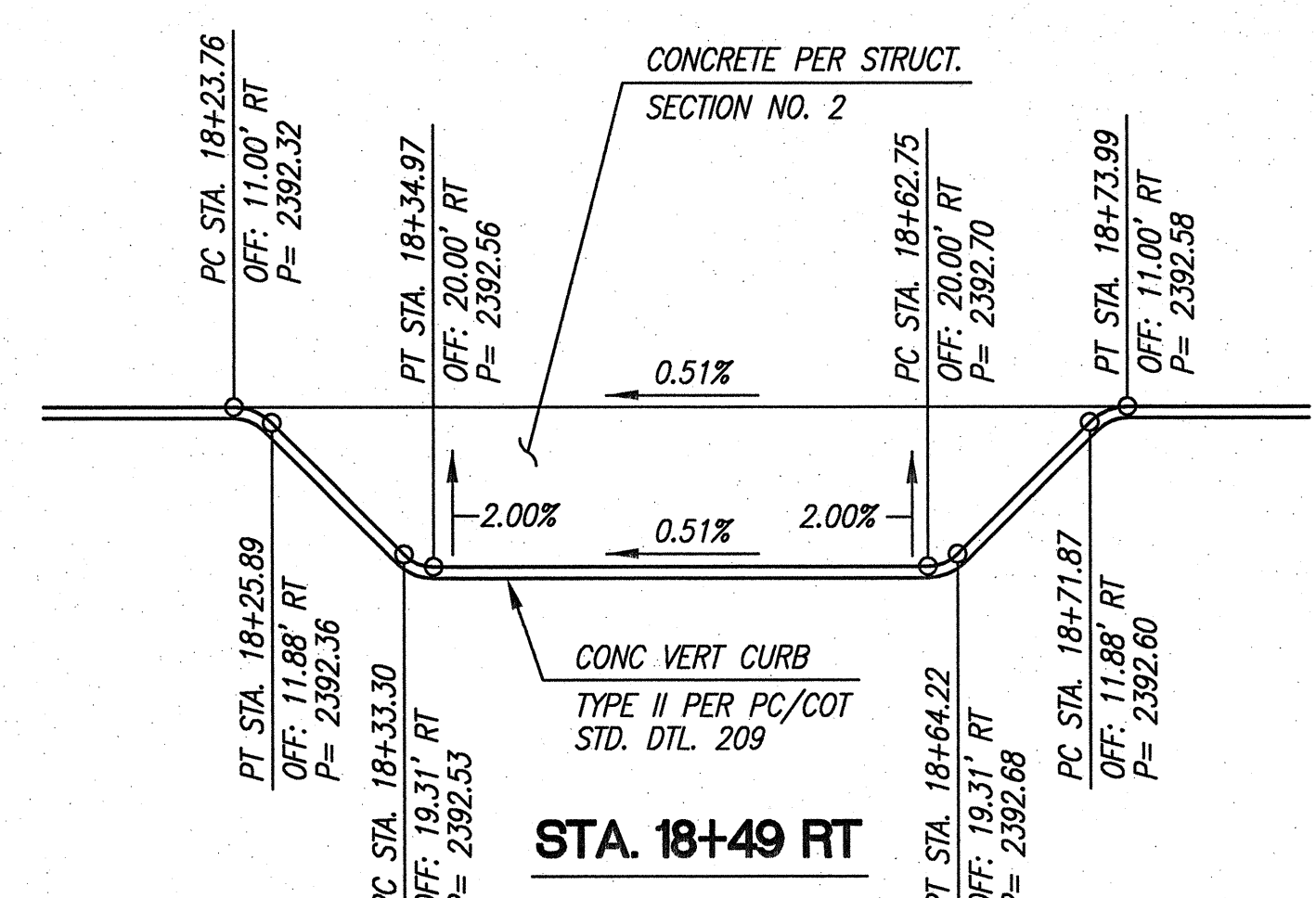
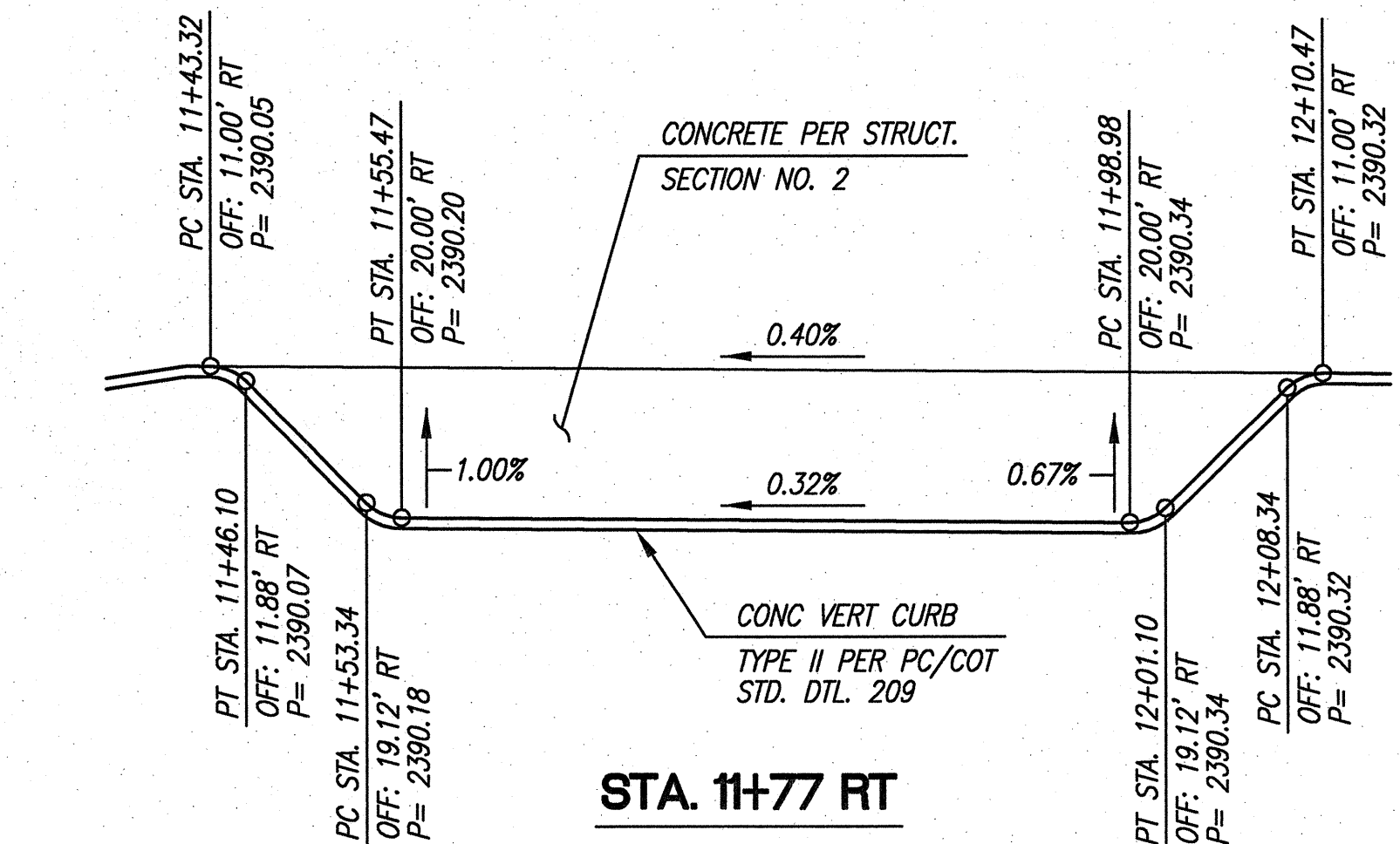


⊕ CONTROL POINT (TYP.) SEE PROFILE FOR STATIONS

ROADWAY DETAILS

	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		7 OF 71
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-CPDT03 SCALE:	PLAN NO. I-2008-027

NO.	DATE	REVISION	BY	CHKD.	APPR.



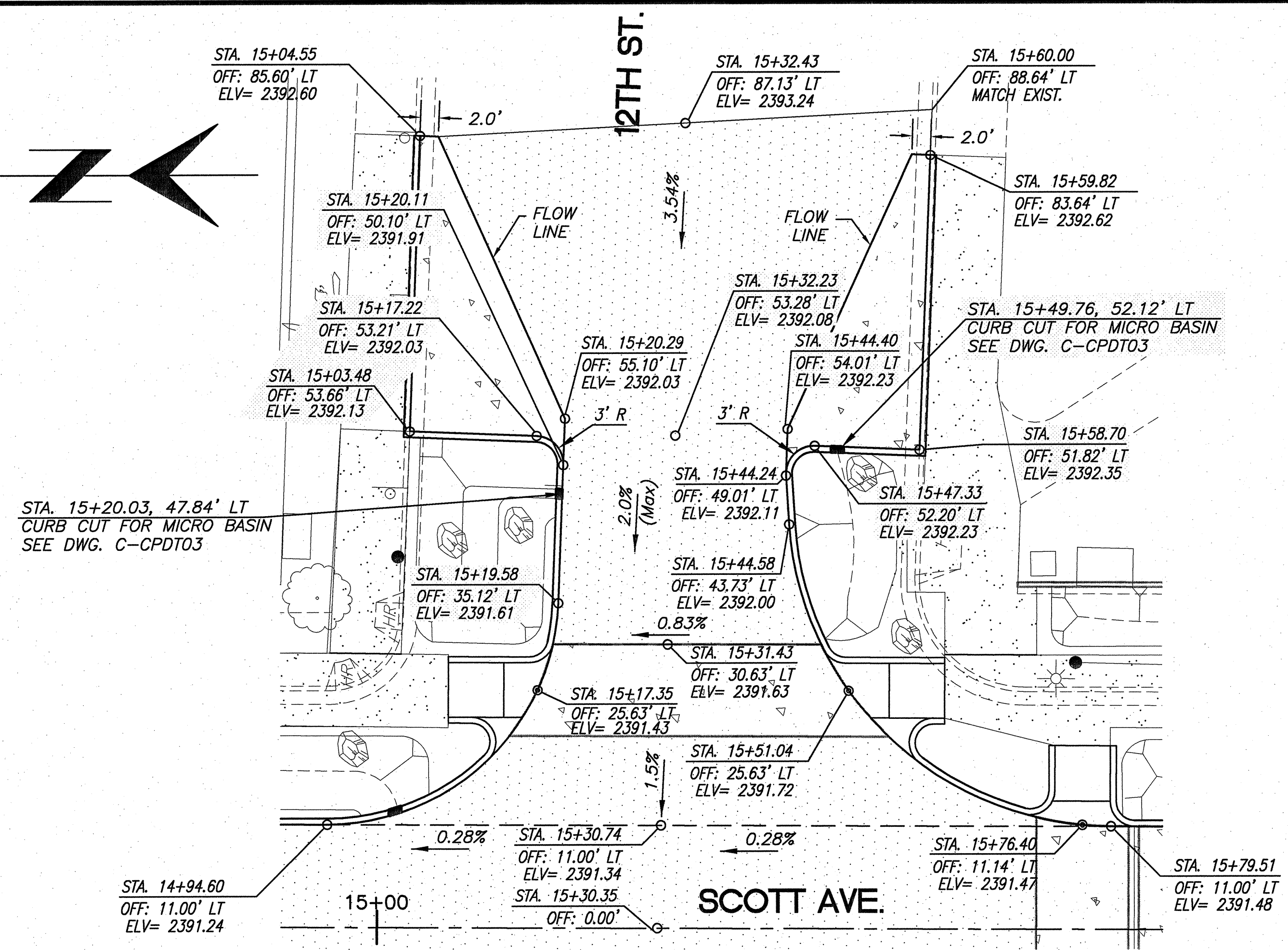
TYP. PARALLEL PARKING RADIUS DETAIL

SCOTT AVENUE PARALLEL PARKING DETAILS
ROADWAY DETAILS

	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		8 OF 71
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-CPDT04 SCALE: _____ PLAN NO. I-2008-027	CITY OF TUCSON

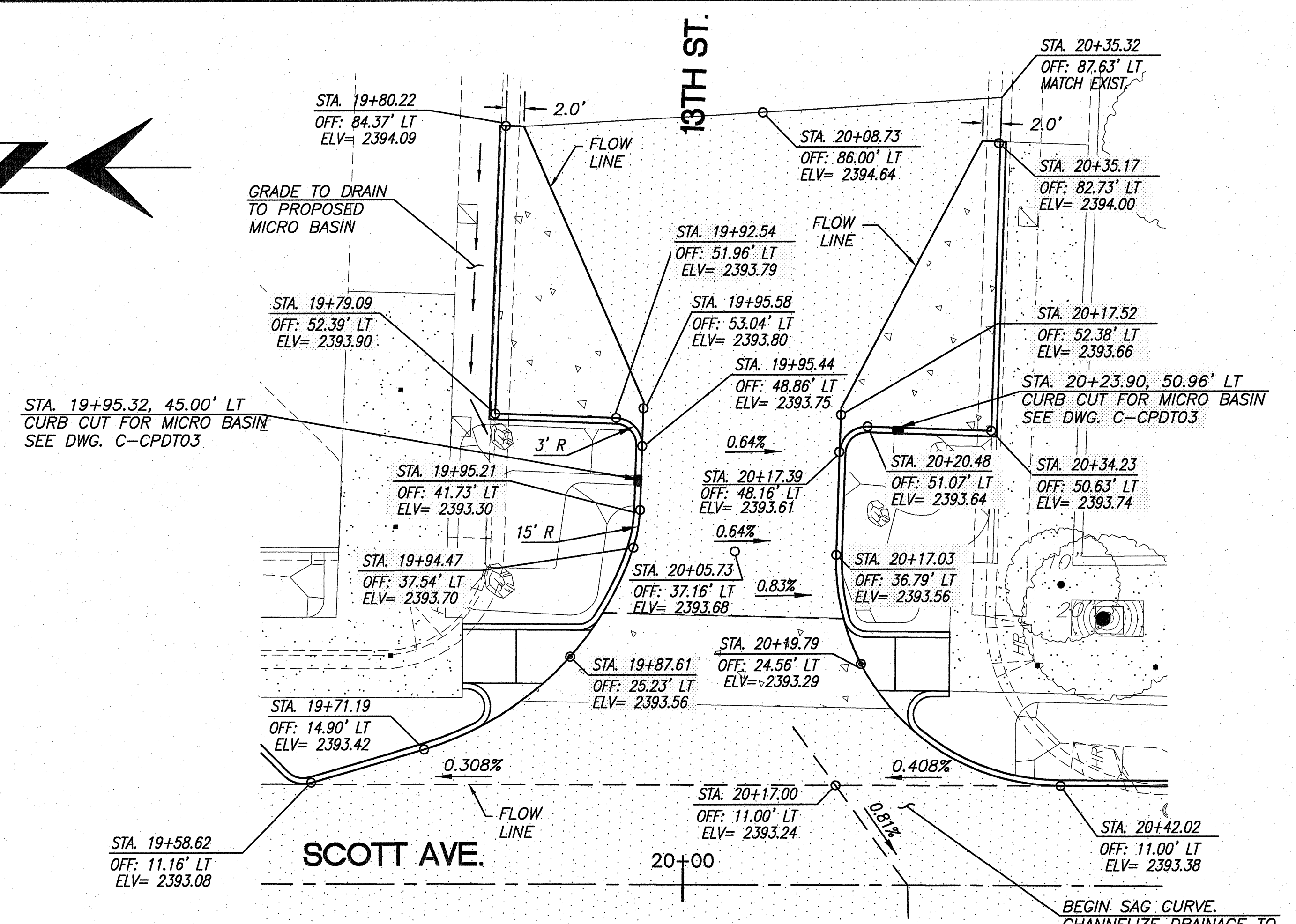
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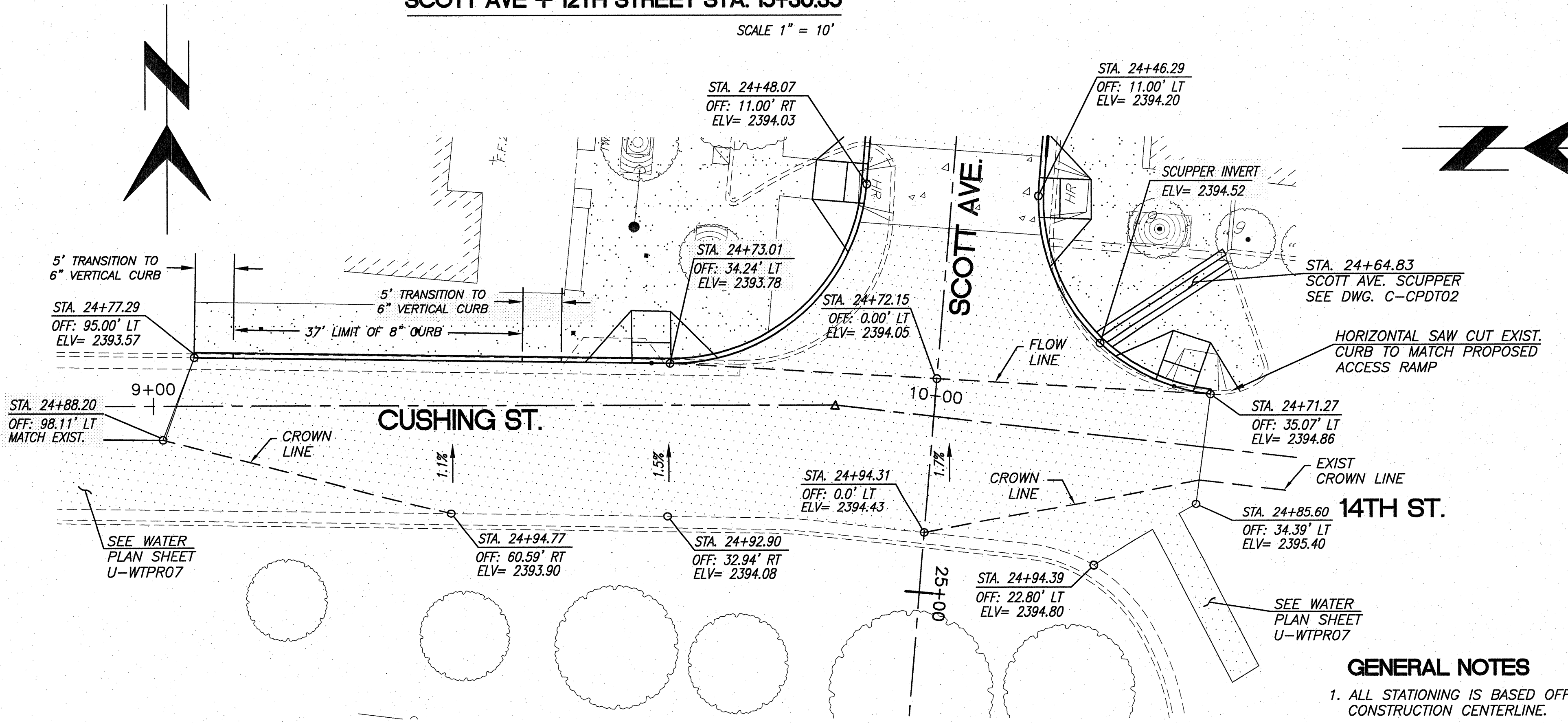
SCOTT AVE + 12TH STREET STA. 15+30.35

SCALE 1" = 10'



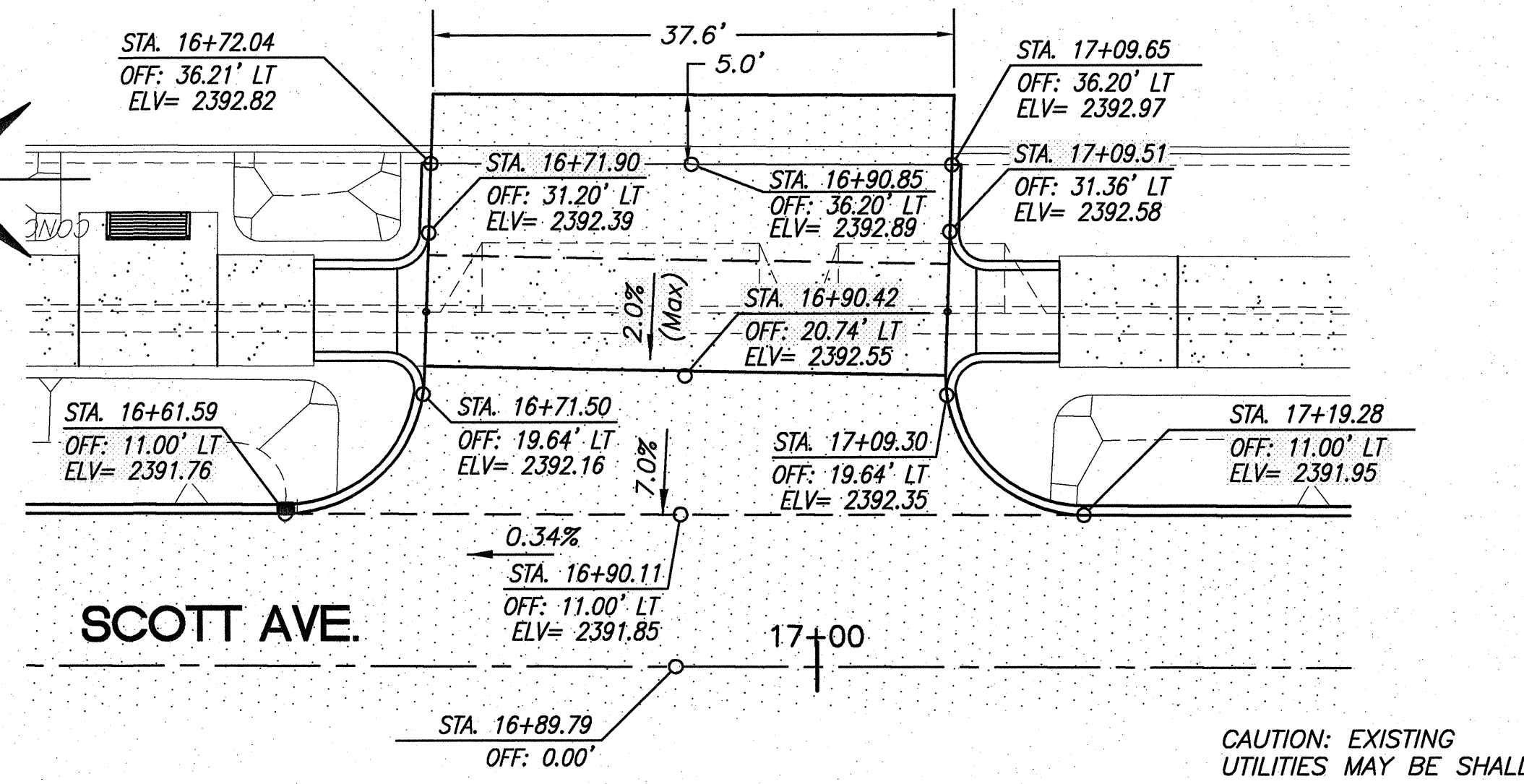
SCOTT AVE + 13TH STREET STA. 20+04.86

SCALE 1" = 10'



SCOTT AVE + CUSHING STREET STA. 24+77.03

SCALE 1" = 10'



SCOTT AVE, DRIVEWAY STA. 16+89.79

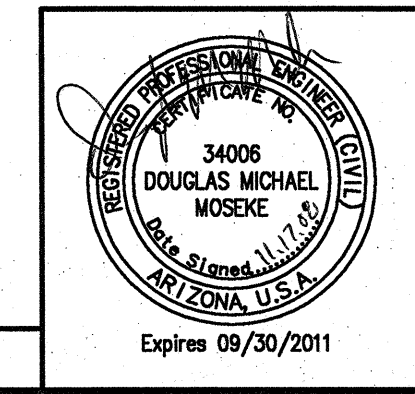
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**SCOTT AVENUE INTERSECTION DETAILS
ROADWAY DETAILS**

GENERAL NOTES

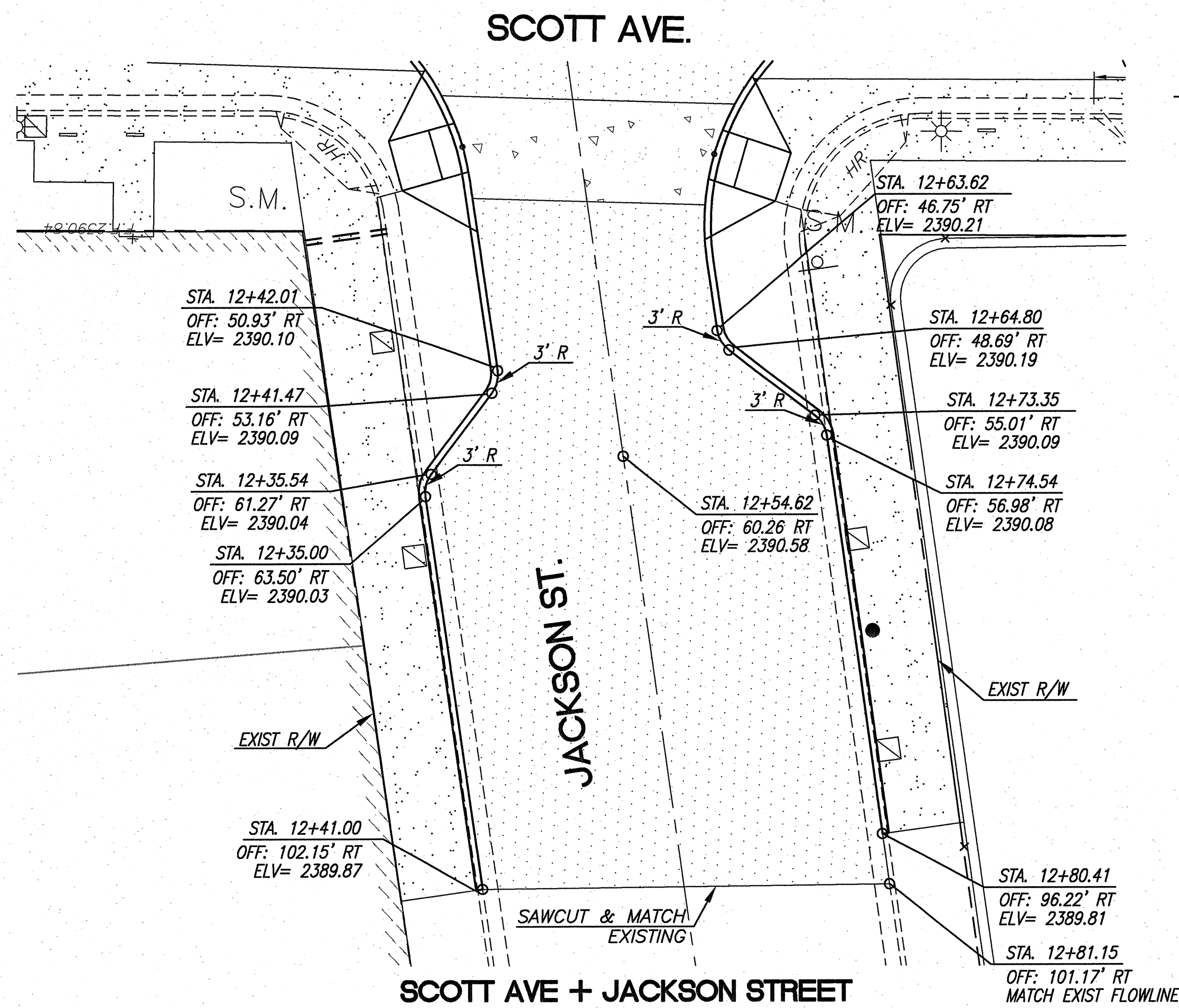
- ALL STATIONING IS BASED OFF THE SCOTT AVE CONSTRUCTION CENTERLINE.
- ALL ELEVATIONS ARE TO THE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.

NO.	DATE	REVISION	BY	CHKD.	APPR.



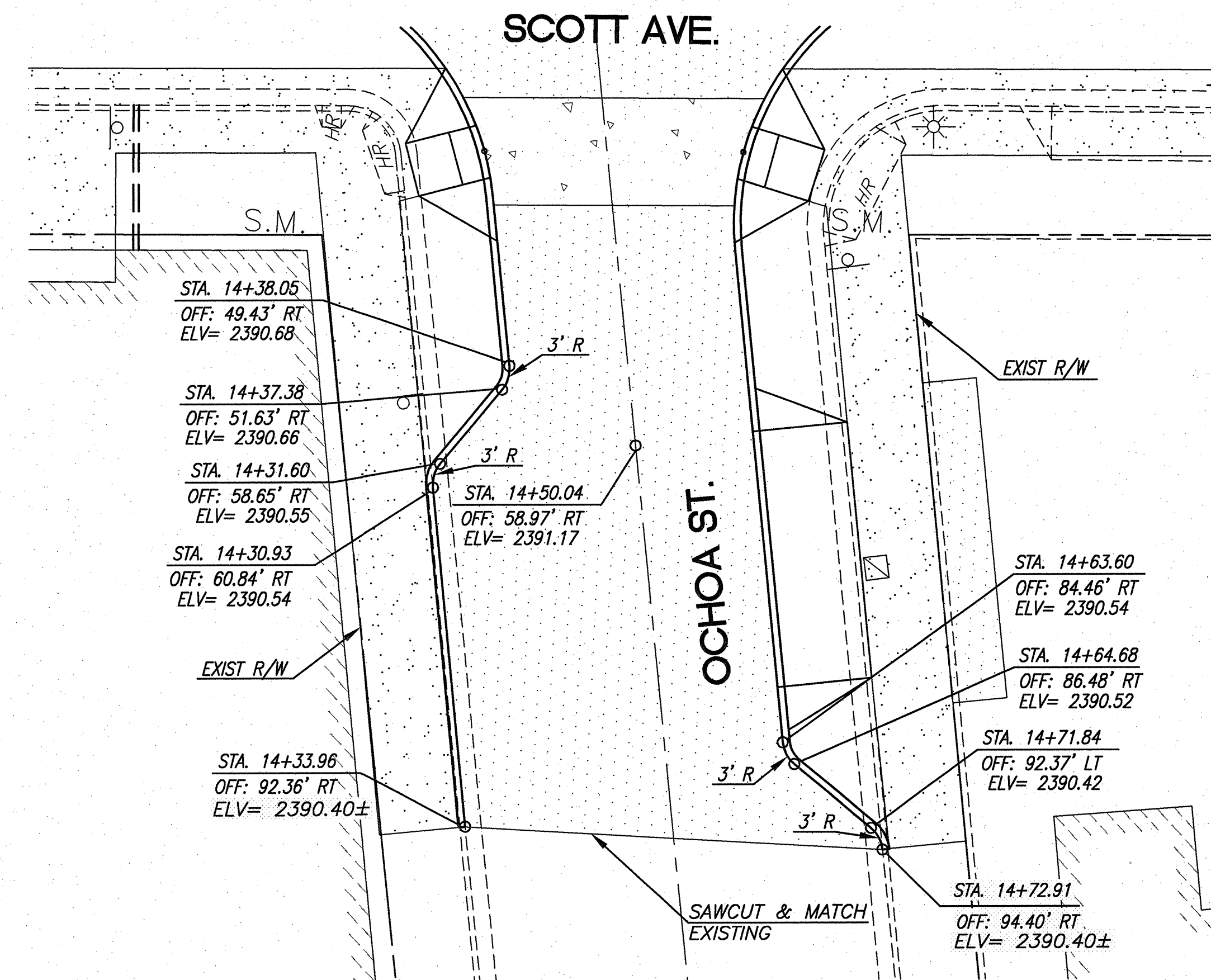
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		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-CPDT05 SCALE: PLAN NO. I-2008-027	

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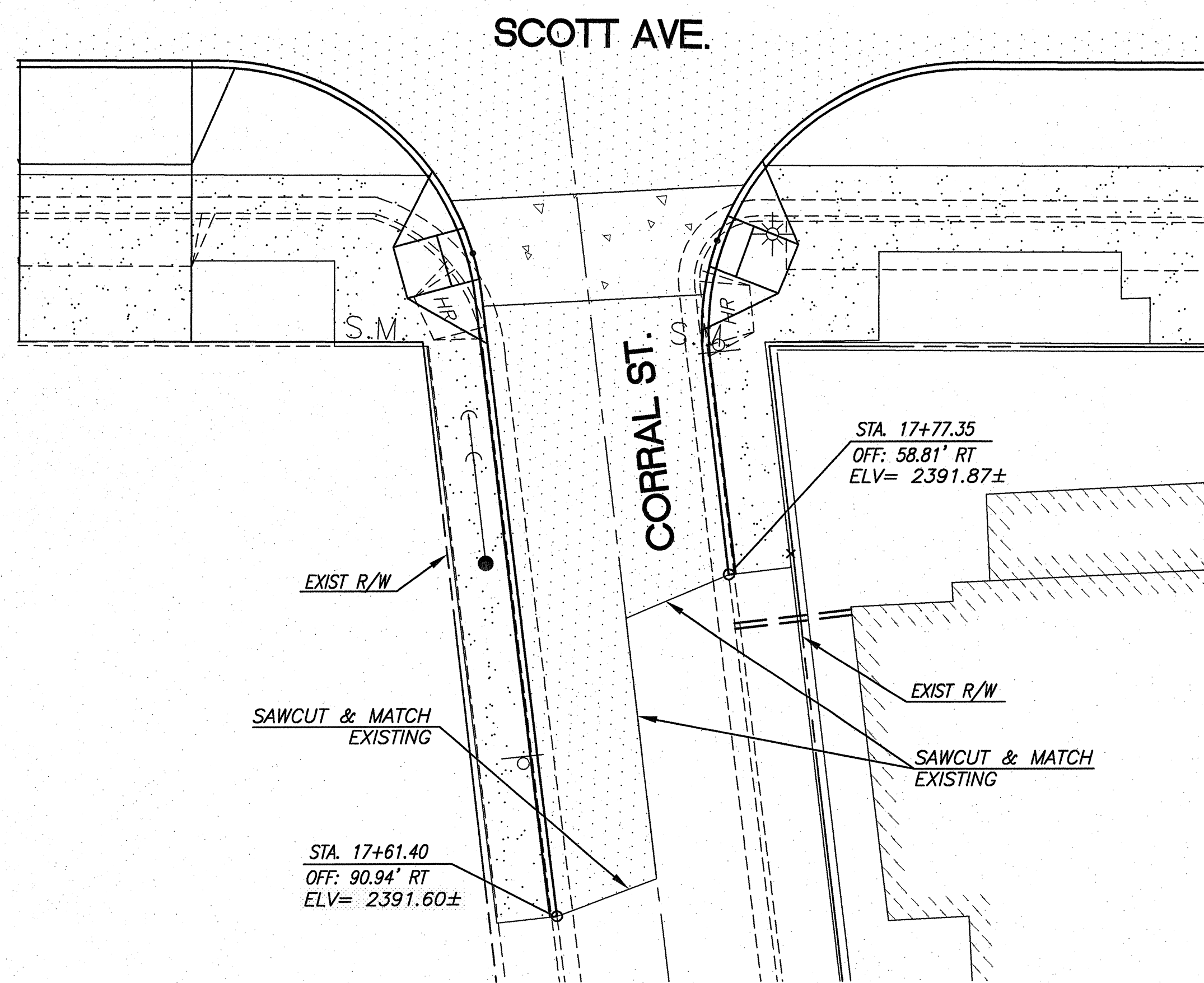
SCOTT AVE + JACKSON STREET

SCALE 1" = 10'



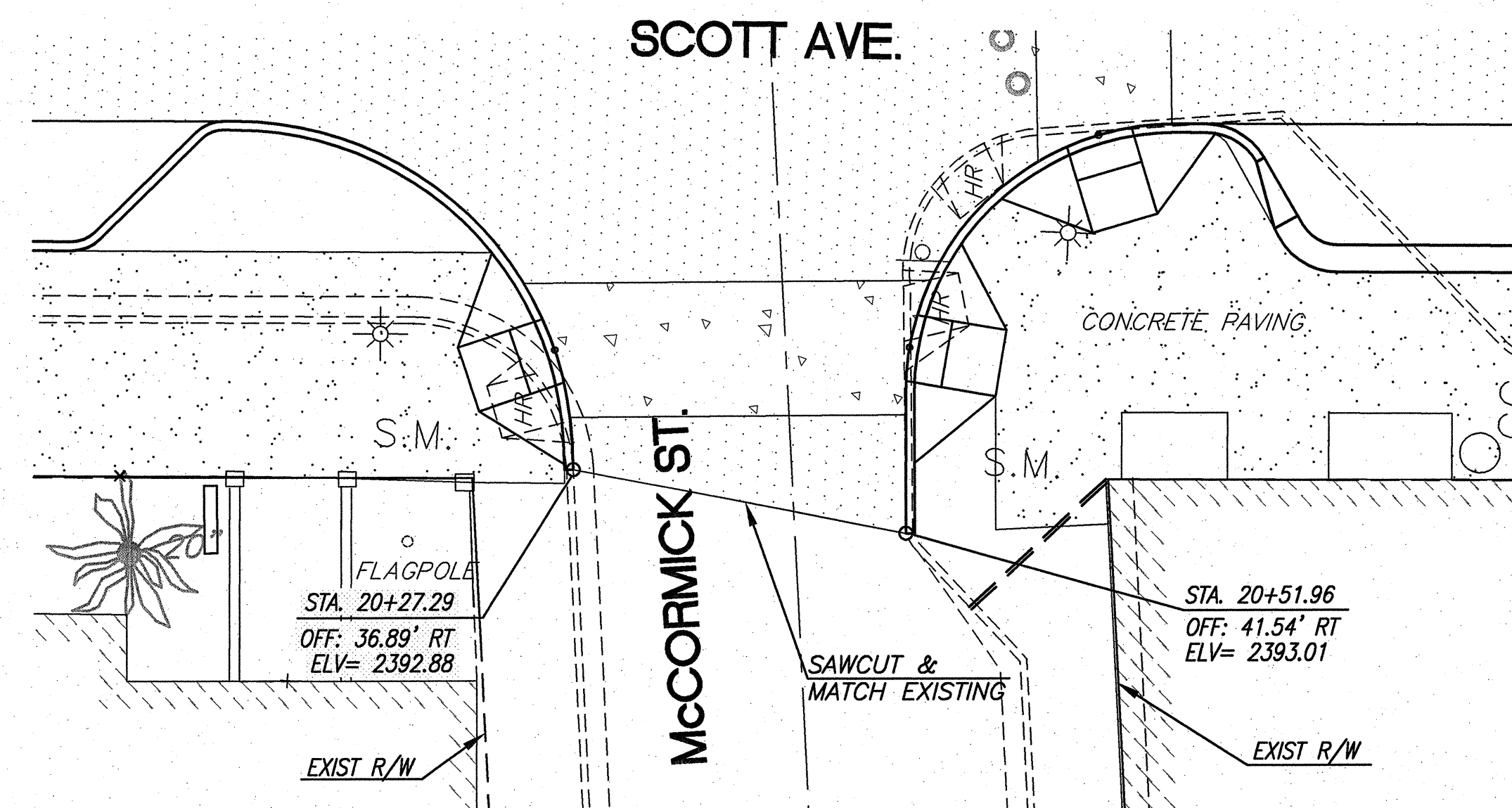
SCOTT AVE + OCHOA STREET

SCALE 1" = 10'



SCOTT AVE + CORRAL STREET

SCALE 1" = 10'



SCOTT AVE + McCORMICK

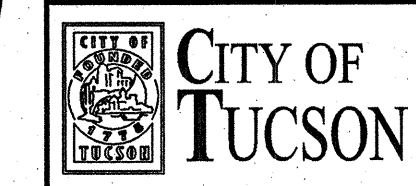
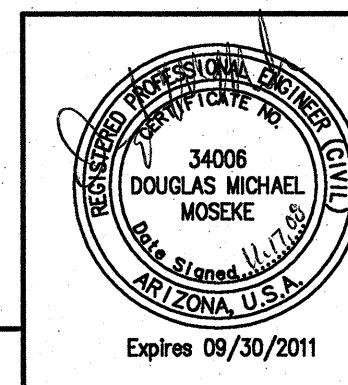
SCALE 1" = 10'

**SCOTT AVENUE INTERSECTION DETAILS
ROADWAY DETAILS**

GENERAL NOTES

1. ALL STATIONING IS BASED OFF THE SCOTT AVE CONSTRUCTION CENTERLINE.
2. ALL ELEVATIONS ARE TO THE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.

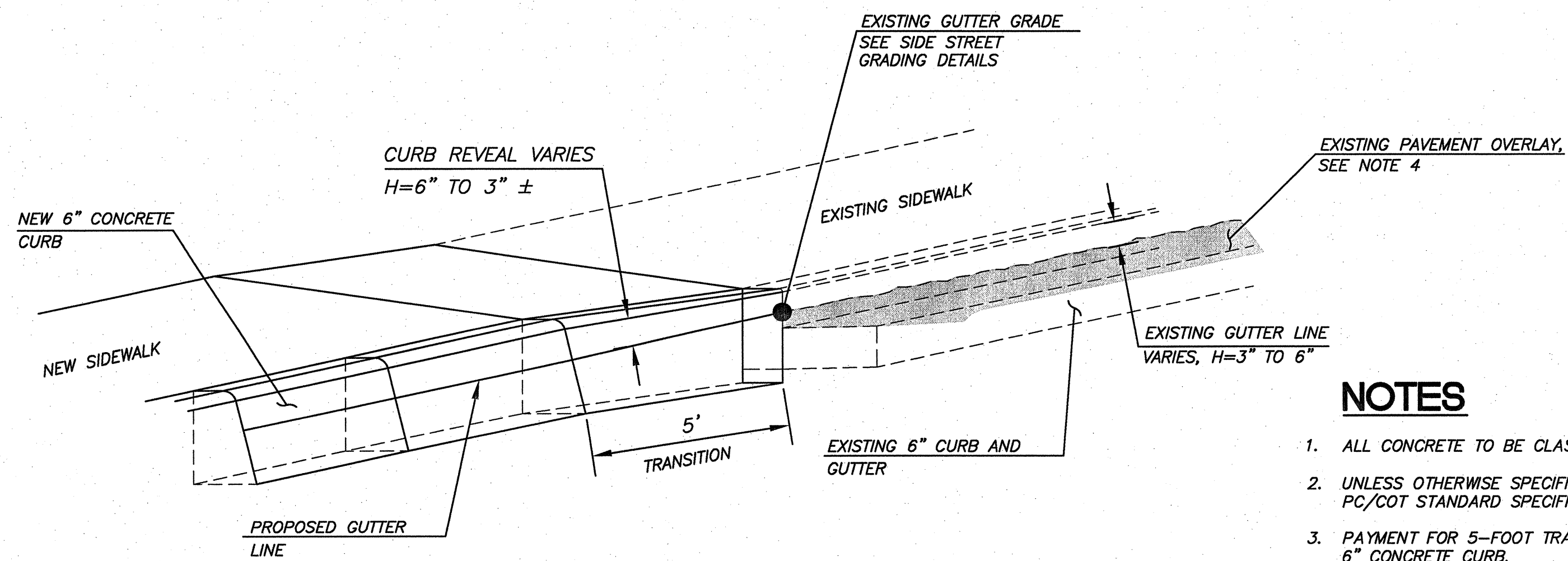
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DRWN. BY	V. HO
DSGN. BY	D. MOSEKE, JD, HP
CHKD. BY	A. BATT

REF.	C-CPDT06	SCALE:	
PLAN NO.	I-2008-027		

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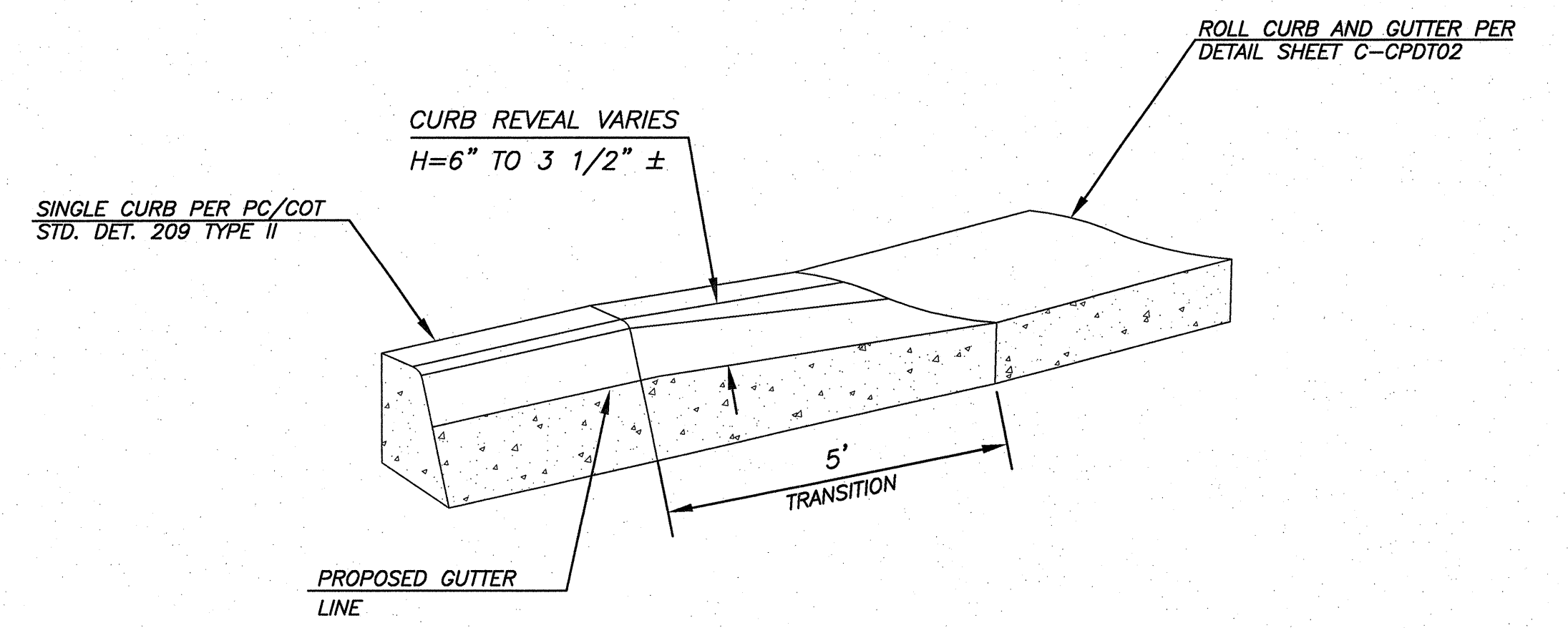


CONC. CURB NEW TO EXIST. CONNECTION, PC/COT DTL 203 (MOD)

NTS

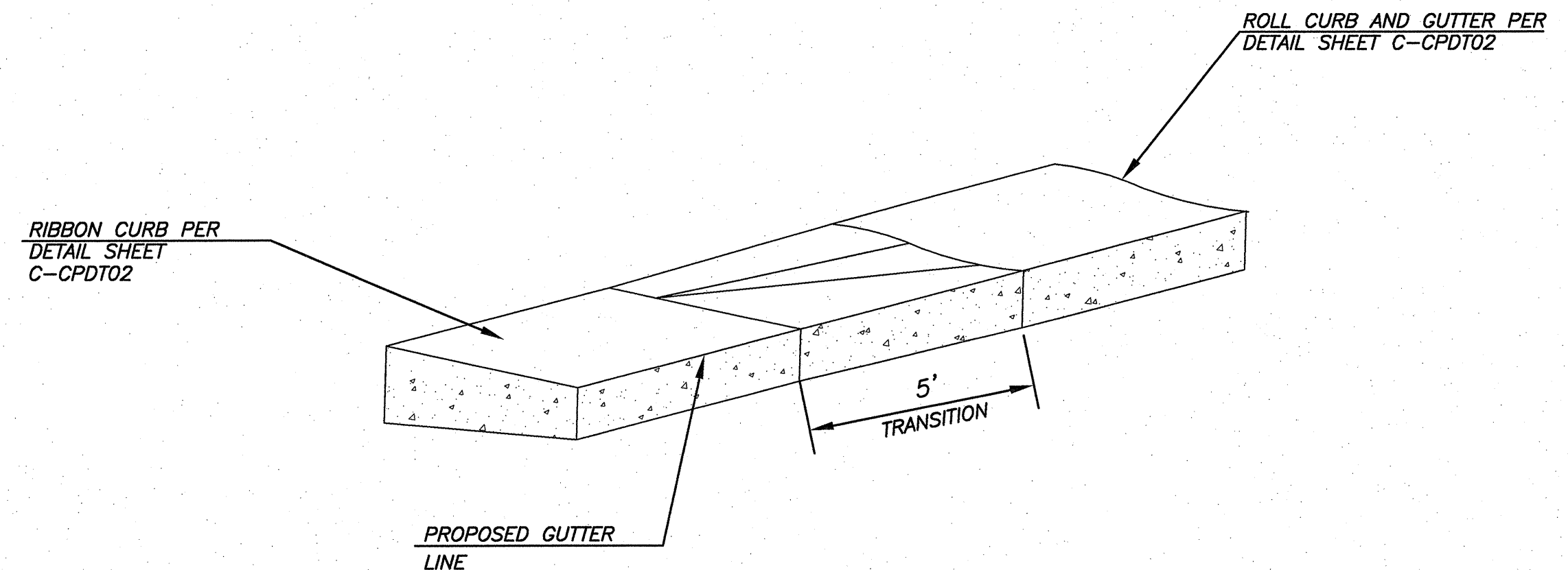
NOTES

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. CURRENTLY, THE EXIST PAVEMENT CONSISTS OF SEVERAL LAYERS OF AC OVERLAYS. IN THE AREA ABOVE THE EXISTING GUTTER PAN, AC PAVEMENT HAS BEEN PLACED THERE FOR CREATING A VARIOUS CURB REVEAL HEIGHT.



ROLL CURB AND GUTTER TO VERTICAL CURB TRANSITION

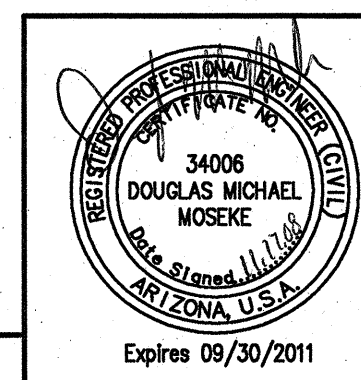
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ROLL CURB TO RIBBON CURB TRANSITION

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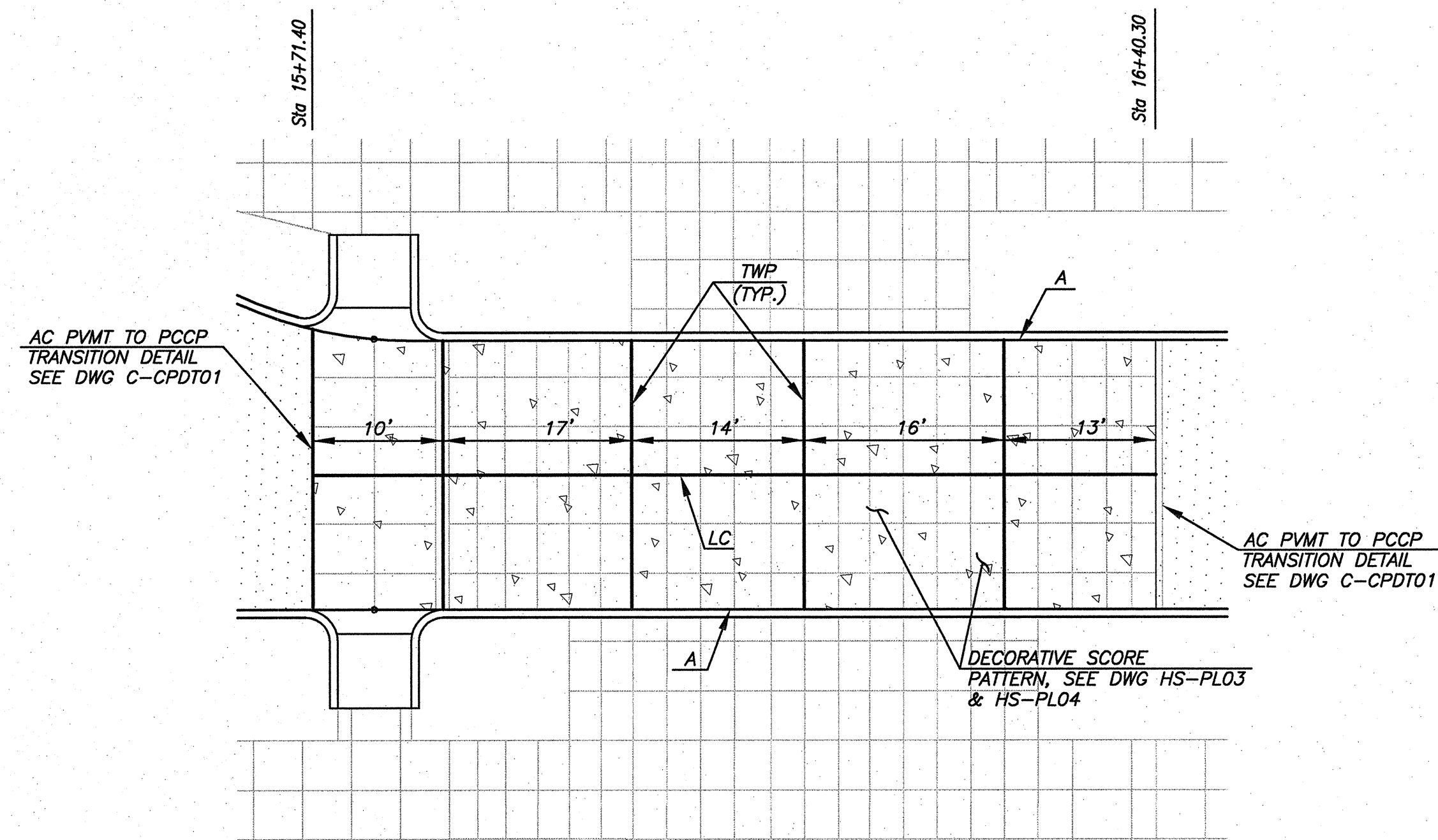
ROADWAY DETAILS



CITY OF TUCSON		DRWN. BY	V. HO	REF. C-CPDT07	SCALE:
		DSGN. BY	D. MOSEKE, JD, HP		
		CHKD. BY	A. BATT	PLAN NO.	I-2008-027

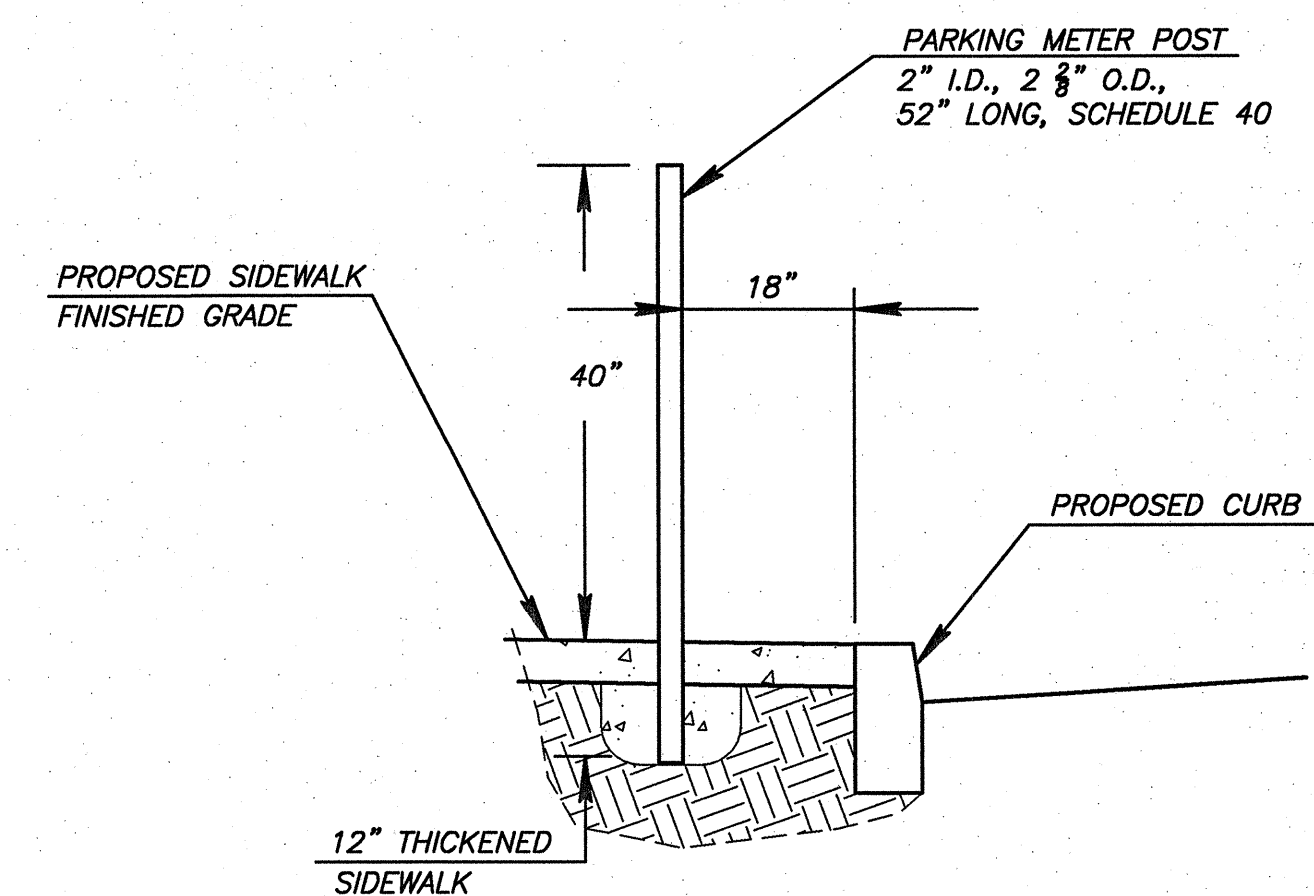
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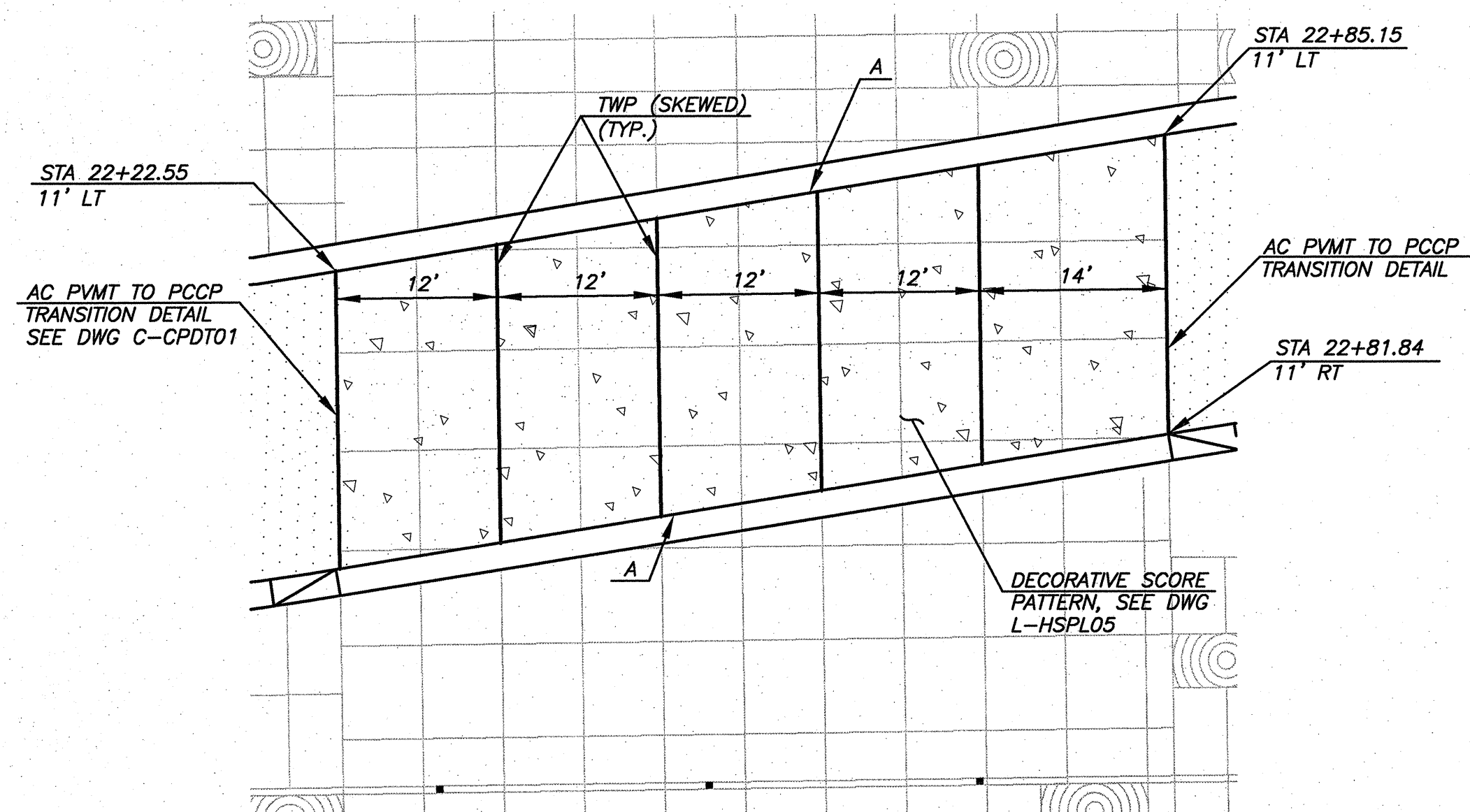
SCOTTISH RITE PCCP JOINTING DETAIL

1"=10'



PARKING METER POST INSTALLATION

N.T.S.



TEMPLE BLOCK PCCP JOINTING DETAIL

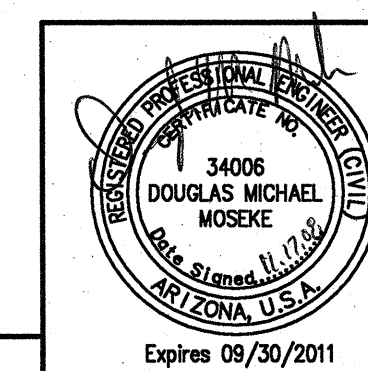
1"=10'

NOTES

UNLESS OTHERWISE SPECIFIED ON PLANS, ALL JOINTING SHALL BE CONSTRUCTED PER ADOT STD DTL C-07.01 & C-07.03

- A: SINGLE CURB JOINT
- LC: LONGITUDINAL CONSTRUCTION JOINT
- TWP: TRANSVERSE WEAKENED PLANE JOINT

ROADWAY DETAILS

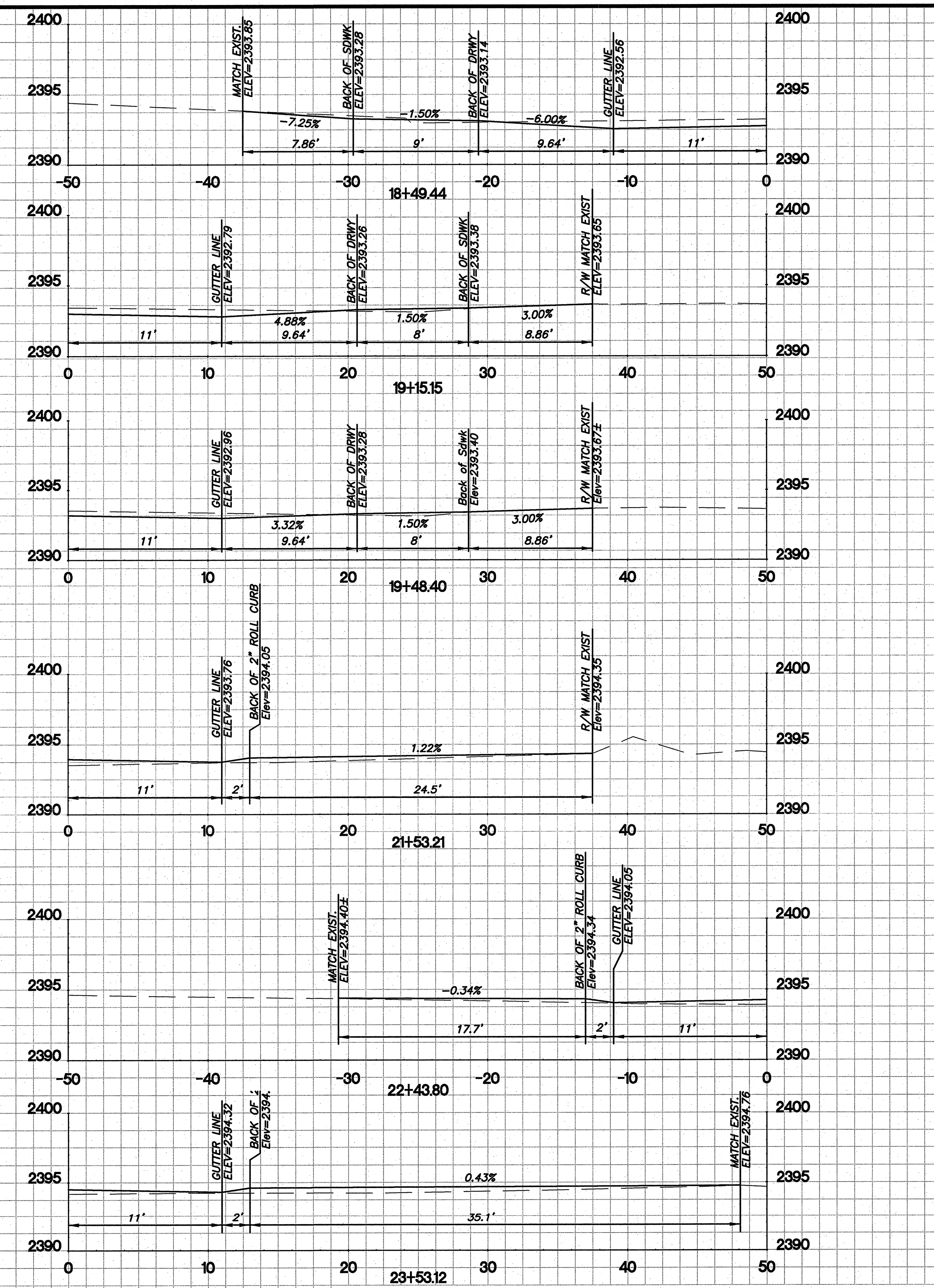
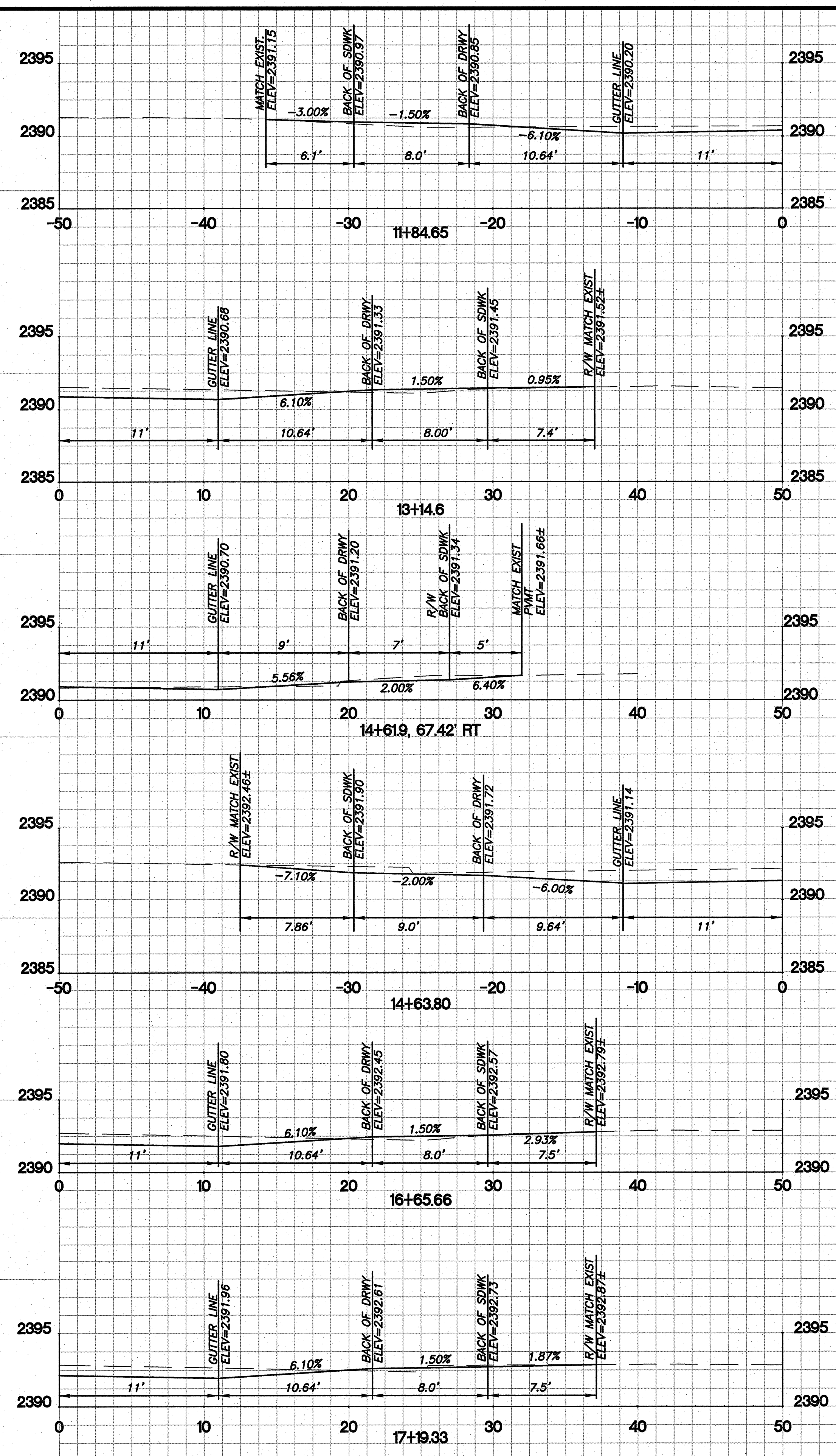


DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		CITY OF TUCSON	DRWN. BY V. HO	REF. C-CPDT08 SCALE: _____
DSGN. BY D. MOSEKE, JD, HP	CHKD. BY A. BATT		PLAN NO. I-2008-027	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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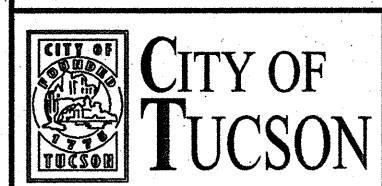
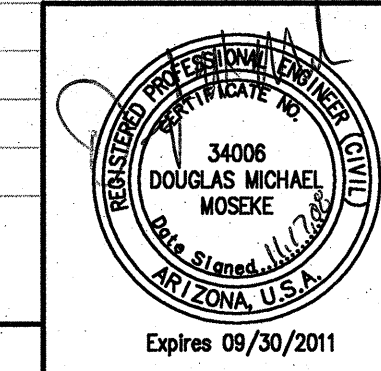
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**DRIVEWAY PROFILES
ROADWAY DETAILS**

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT**

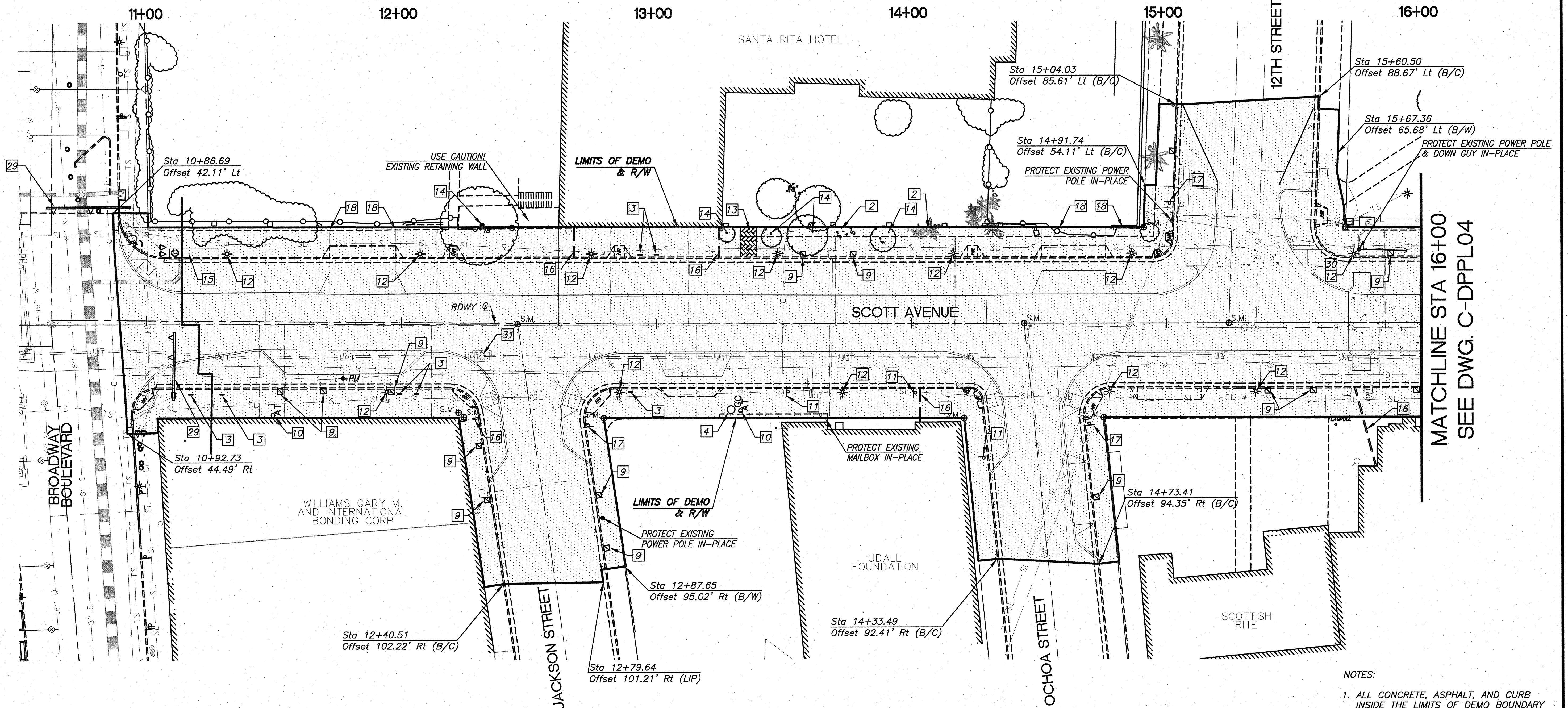
13
OF
71



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

REF. C-CPDT09 SCALE: HZ: 1"=5'
 VT: 1"=5'
 PLAN NO. I-2008-027

NO.	DATE	REVISION	BY	CHKD.	APPR.

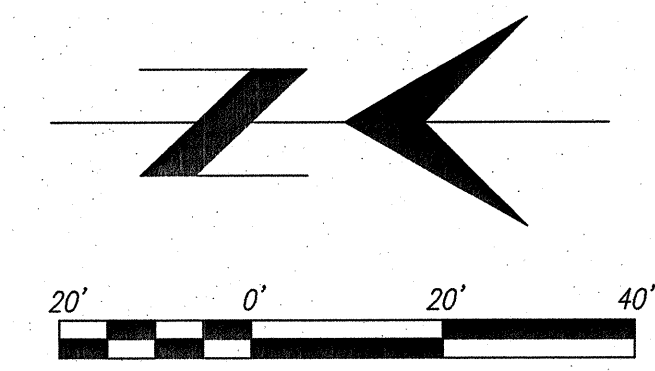


MATCHLINE STA 16+00
SEE DWG. C-DPPL04

REMOVAL NOTES	
2	REMOVE EXIST PALM TREES. USE EXTREME CAUTION. PROTECT EXISTING WALL IN PLACE
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.
11	REMOVE EXISTING PARKING SIGN.
12	REMOVE EXISTING STREET LIGHT & PULLBOX.
13	REMOVE EXISTING BRICK PAVERS.
14	REMOVE EXISTING TREE.
15	REMOVE EXISTING CATCH BASIN.

16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.
17	REMOVE EXISTING STREET SIGN.
18	PROTECT EXISTING WALL IN-PLACE.
29	EXIST. SIGNAL & EQUIP. TO REMAIN
30	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.
31	REMOVE EXISTING QWEST UTILITY VAULT. SEE ROADWAY PLANS FOR NEW VAULT

- NOTES:
- ALL CONCRETE, ASPHALT, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE.
 - 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. C-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY



DEMOLITION PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		14 of 71
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-DPPL03 SCALE: 1"=20' PLAN NO. I-2008-027

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

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FOR WHOM IT WAS PREPARED IS EXPRESSLY
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ADVANCE BY STATING CONSULTING AND
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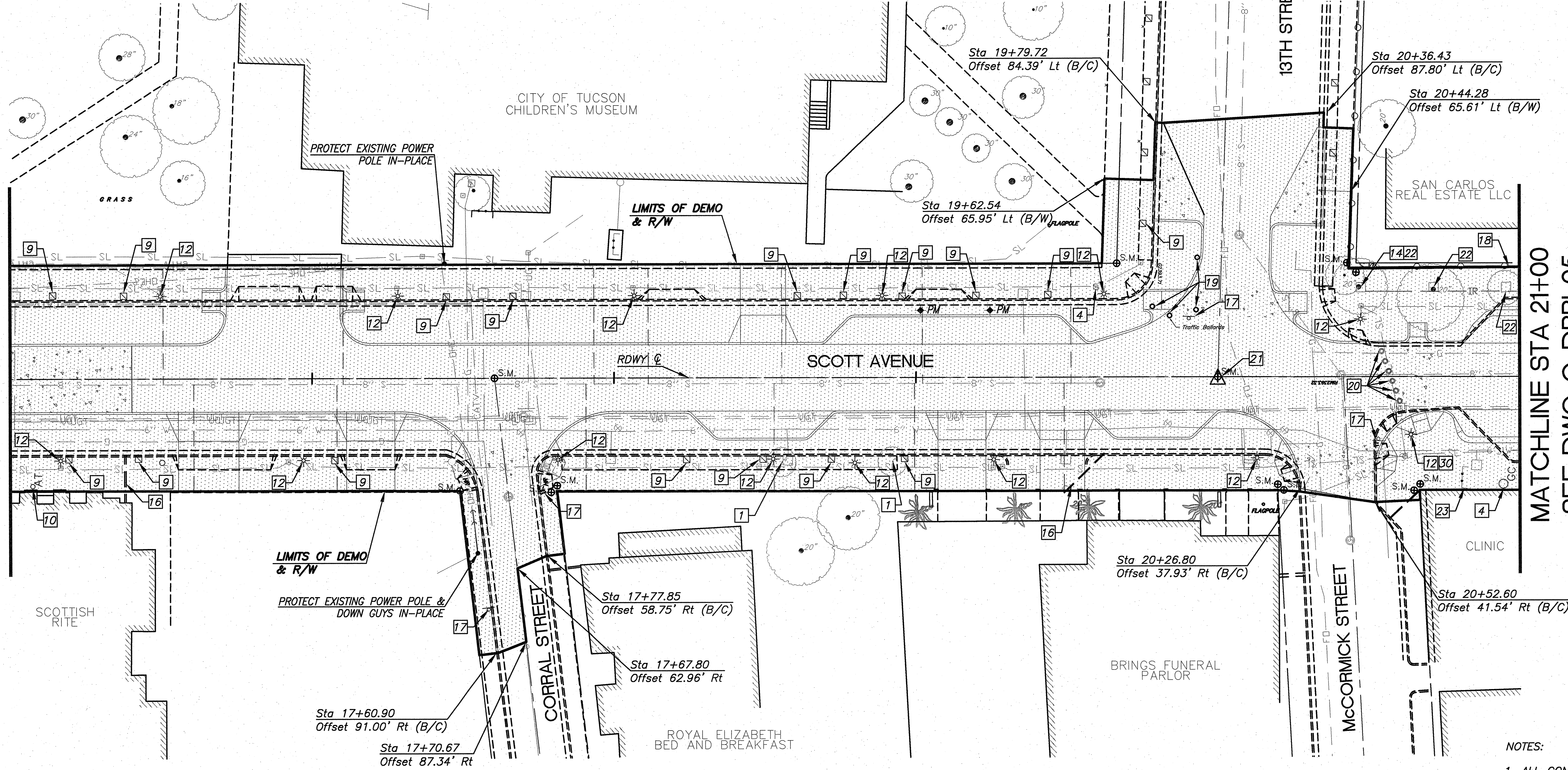
NO.	DATE	REVISION	BY	CHKD.	APPR.

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16+00 17+00 18+00 19+00 20+00 21+00

MATCHLINE STA 16+00
SEE DWG. C-DPPL03

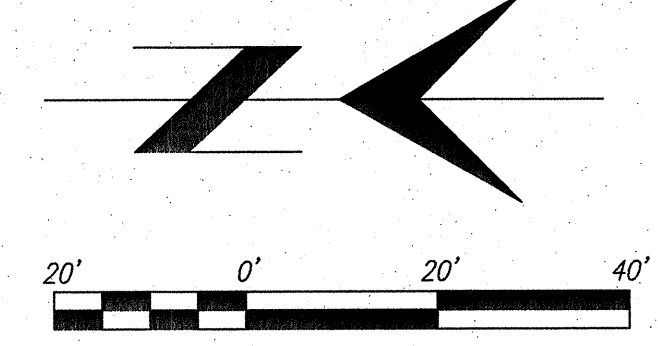
MATCHLINE STA 21+00
SEE DWG. C-DPPL05



REMOVAL NOTES	
1	BOX & SALVAGE EXISTING TREE. REFER TO SPECIAL PROVISIONS
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 STREET LIGHT & PULLBOX.
14	REMOVE EXISTING TREE.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.
17	REMOVE EXISTING STREET SIGN.
18	PROTECT EXISTING WALL IN-PLACE.
19	REMOVE EXISTING PLASTIC BOLLARD.
20	REMOVE EXISTING BOLLARD FOUNDATION.

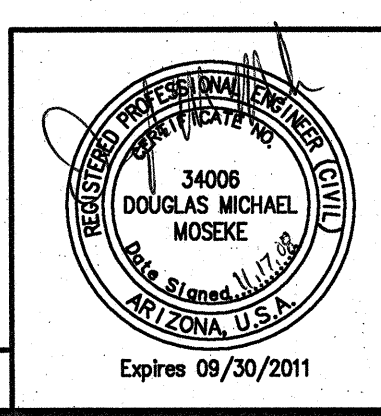
21	REMOVE EXISTING SURVEY MONUMENT.
22	REMOVE & SALVAGE EXISTING TREE GRATE.
23	PROTECT EXISTING BACKFLOW PREVENTER IN-PLACE.
30	SALVAGE & RELOCATE EXIST. SIGN. SEE SIGNING & ROADWAY PLANS.

- NOTES:
- ALL CONCRETE, ASPHALT, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE.
 - 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. C-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY



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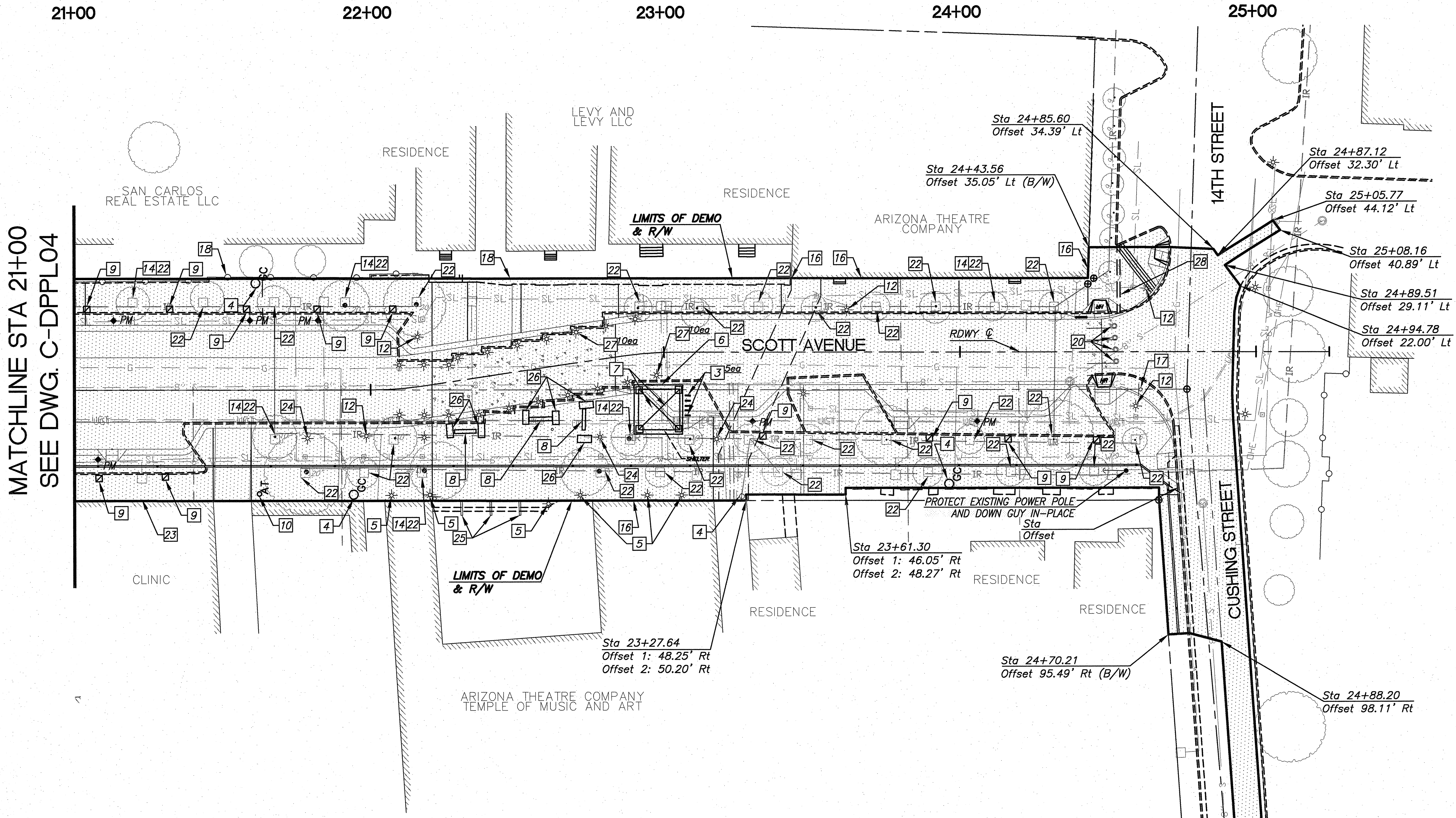
DEMOLITION PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

	DRWN. BY	V. HO	REF. C-DPPL04 SCALE: _____ PLAN NO. I-2008-027
	DSGN. BY	D. MOSEKE, JD, HP	
	CHKD. BY	A. BATT	

15 OF 71

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 21+00
SEE DWG. C-DPPL04

REMOVAL NOTES	
3	REMOVE & SALVAGE EXISTING BIKE RACK.
4	REMOVE & SALVAGE EXISTING TRASH RECEPTACLE.
5	RETAIN AND PROTECT EXISTING IN GROUND LIGHTING.
6	REMOVE EXISTING RAMADA.
7	REMOVE & SALVAGE EXISTING METAL BENCH.
8	REMOVE EXISTING BENCH.
9	REMOVE PARKING METER. SALVAGE HEAD OF METER TO PARKWISE.
10	REMOVE AND SALVAGE EXISTING ASH TRAY.
12	REMOVE EXISTING STREET LIGHT & PULLBOX.
14	REMOVE EXISTING TREE.
16	REMOVE EXISTING ROOF DRAIN TO RIGHT-OF-WAY.

17	REMOVE EXISTING STREET SIGN.
18	PROTECT EXISTING WALL IN-PLACE.
20	REMOVE EXISTING BOLLARD FOUNDATION.
22	REMOVE & SALVAGE EXISTING TREE GRATE.
23	PROTECT EXISTING BACKFLOW PREVENTER IN-PLACE.
24	REMOVE & SALVAGE EXISTING HISTORIC LIGHT.
25	PROTECT EXISTING HANDRAIL IN PLACE.
26	REMOVE EXISTING PLANTER.
27	REMOVE EXISTING IN-STREET LIGHTING.
28	REMOVE EXISTING SCUPPER.

- NOTES:
- ALL CONCRETE, ASPHALT, AND CURB INSIDE THE LIMITS OF DEMO BOUNDARY ARE TO BE REMOVED, UNLESS IDENTIFIED OTHERWISE.
 - 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. C-CPGN02 FOR WORK OUTSIDE OF EXISTING RIGHT-OF-WAY

DEMOLITION PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		16 of 71
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-DPPL05 SCALE: 1"=20' PLAN NO. I-2008-027

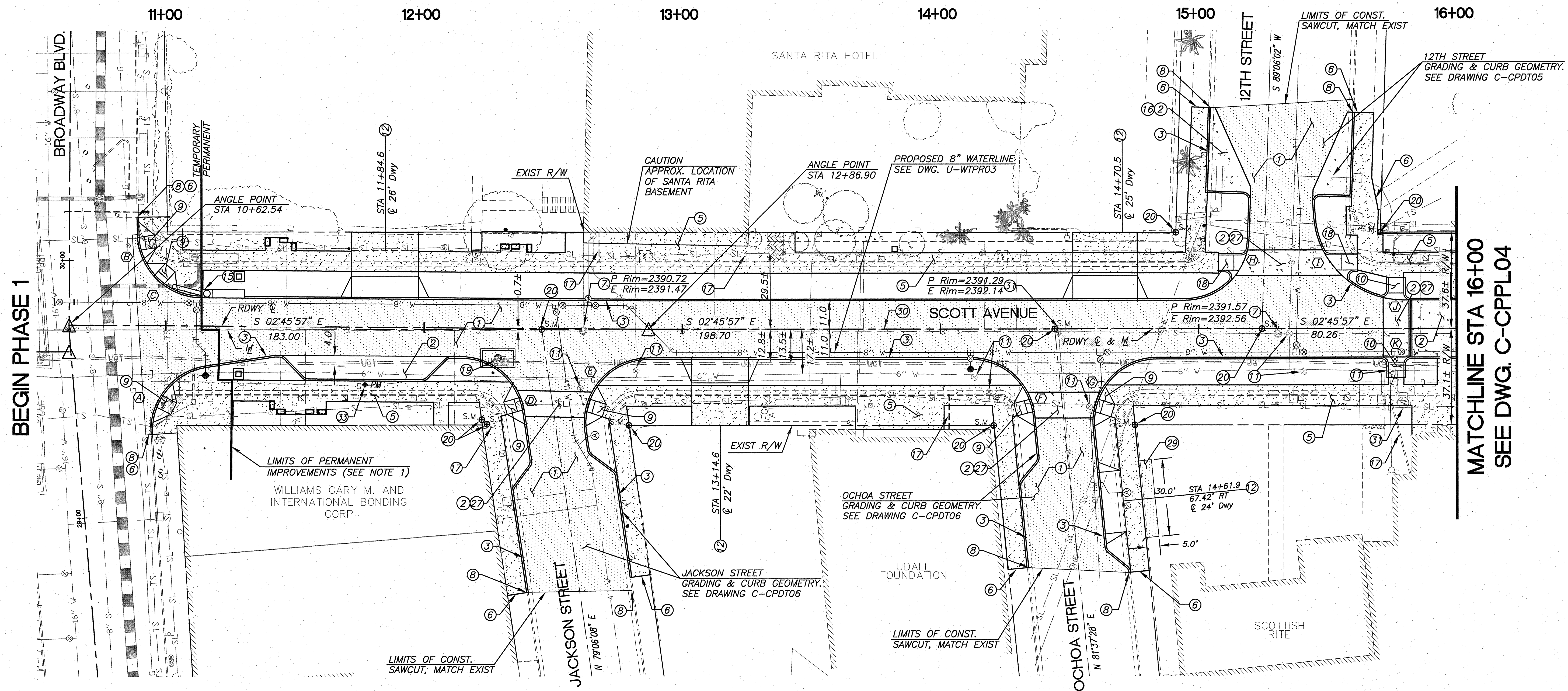
NO.	DATE	REVISION	BY	CHKD.	APPR.

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Expires 09/30/2011
 CITY OF TUCSON

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 aed@stc.com



BEGIN PHASE 1

MATCHLINE STA 16+00
SEE DWG. C-CPPL04

CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2, SEE HARDSCAPE PLANS FOR FINISH
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
⑤	SIDEWALK PER PC/COT STD. DTL. 200. SEE STREETScape PLANS FOR FINISH.
⑥	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑦	ADJUST SANITARY SEWER MH COVER, PC/WWM DTL. 305
⑧	CONC. CURB NEW TO EXIST CONNECTION PER PC/COT STD. DTL. 211(MOD), SEE DWG. C-CPDT07
⑨	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DTL. DWG. C-CPDT01.

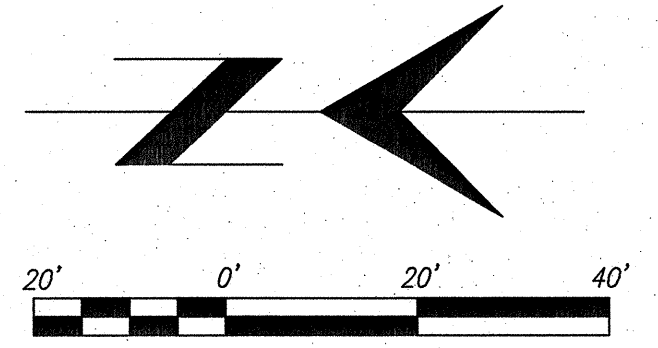
CONSTRUCTION NOTES	
⑩	HISTORIC SIDEWALK RAMP, SEE DWG. C-CPDT02
⑪	SEE WATERLINE PLANS FOR VALVE, HYDRANT, AND METER RELOCATION/ADJUSTMENT
⑫	DRIVEWAY APRON, PC/COT STD. DTL. 206 (MOD), SEE DWG. C-CPDT01
⑮	NEW CATCH BASIN, PC/COT STD. DTL. 308 SEE DWG. C-CPDT03
⑯	CONCRETE APRON, SEE DWG. SHEET C-CPDT05
⑰	EXTEND EXIST ROOF DRAIN, SEE DWG. C-CPDT03
⑱	HISTORIC SIDEWALK RAMP (MOD), SEE DWG. C-CPDT02
⑲	CONSTRUCT NEW 12'x6'x4' QWEST UTILITY VAULT

CONSTRUCTION NOTES	
⑳	SURVEY MONUMENT, PC/COT STD. DTL. 103, SEE DWG. C-CPGN04 FOR BRASS CAP LOCATION TABLE
㉑	CONCRETE CROSSWALK DTL., SEE DWG. C-CPDT01
㉒	NEW AC PVMT, STRUCTURAL SECTION NO. 3
㉓	STA 13+78, SEWER MAIN REPAIR, PC/COT WWM 102
㉔	ADJUST MH COVER PER PC/WWM DTL 306
㉕	INSTALL PARKING METER POST. SEE DWG. C-CPDT08

RAMP CONTROL		
ID	STATION	OFFSET
A	10+97.16	28.77 RT.
B	10+89.09	31.86 LT.
C	10+96.96	17.47 LT.
D	12+38.32	28.84 RT.
E	12+63.17	29.27 RT.
F	14+35.71	29.33 RT.
G	14+59.85	29.36 RT.

RAMP CONTROL		
ID	STATION	OFFSET
H	15+17.35	25.63 LT.
I	15+51.04	25.63 LT.
J	15+76.40	11.14 LT.
K	15+76.40	11.00 RT.

NOTE:
 1. TEMPORARY CONNECTION AT BROADWAY BOULEVARD WILL BE RECONSTRUCTED DURING THE FUTURE BROADWAY BOULEVARD IMPROVEMENTS.
 2. CURB CUTS FOR MICROBASIN WATER HARVESTING ARE SHOWN IN PROFILE. SEE DETAIL SHT. 7.

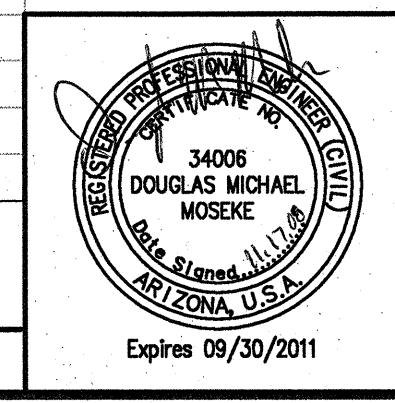
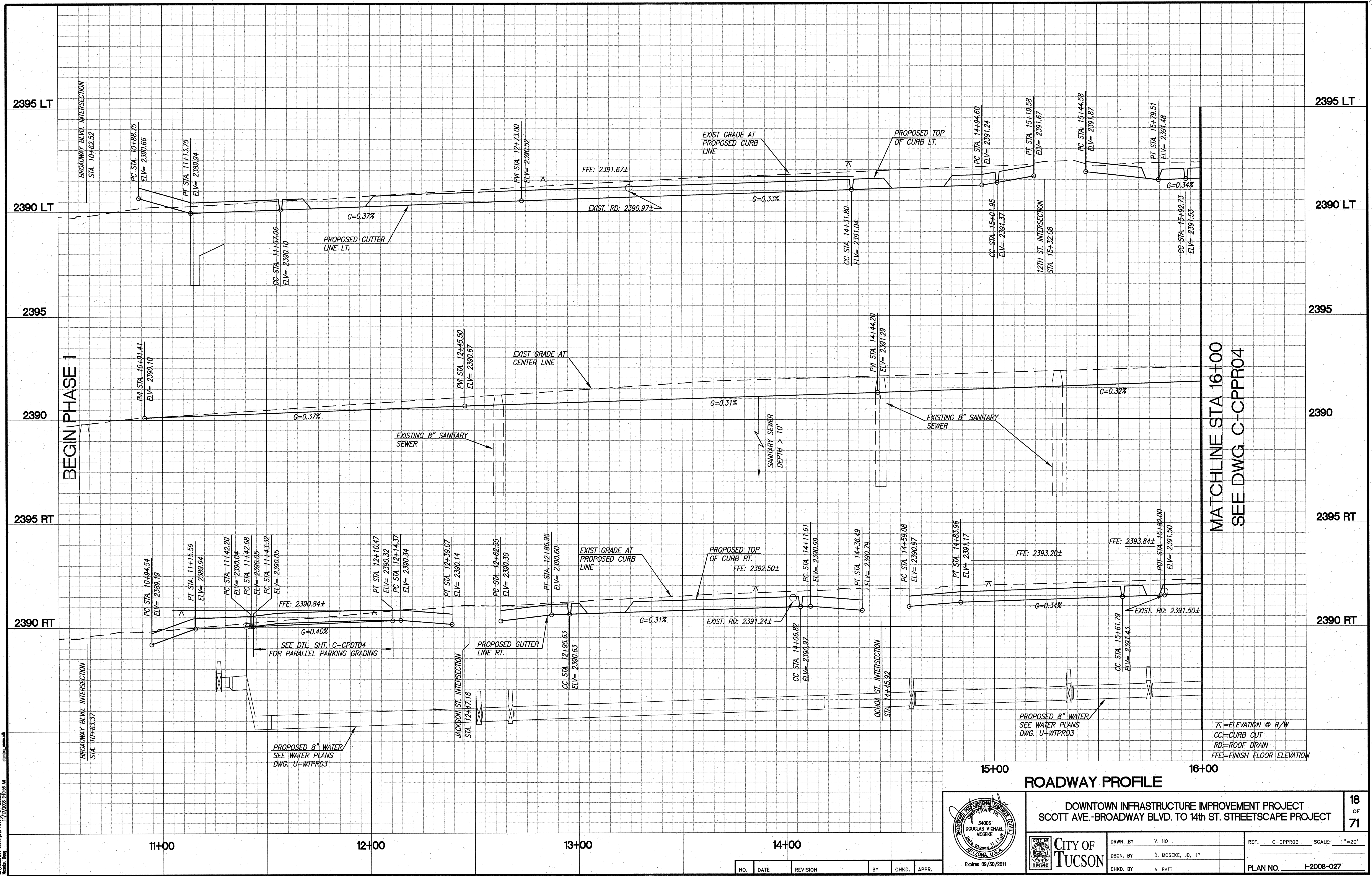


ROADWAY PLAN

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETScape PROJECT		17 OF 71
	DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BATT	REF. C-CPPL03 SCALE: 1"=20' PLAN NO. I-2008-027

NO.	DATE	REVISION	BY	CHKD.	APPR.

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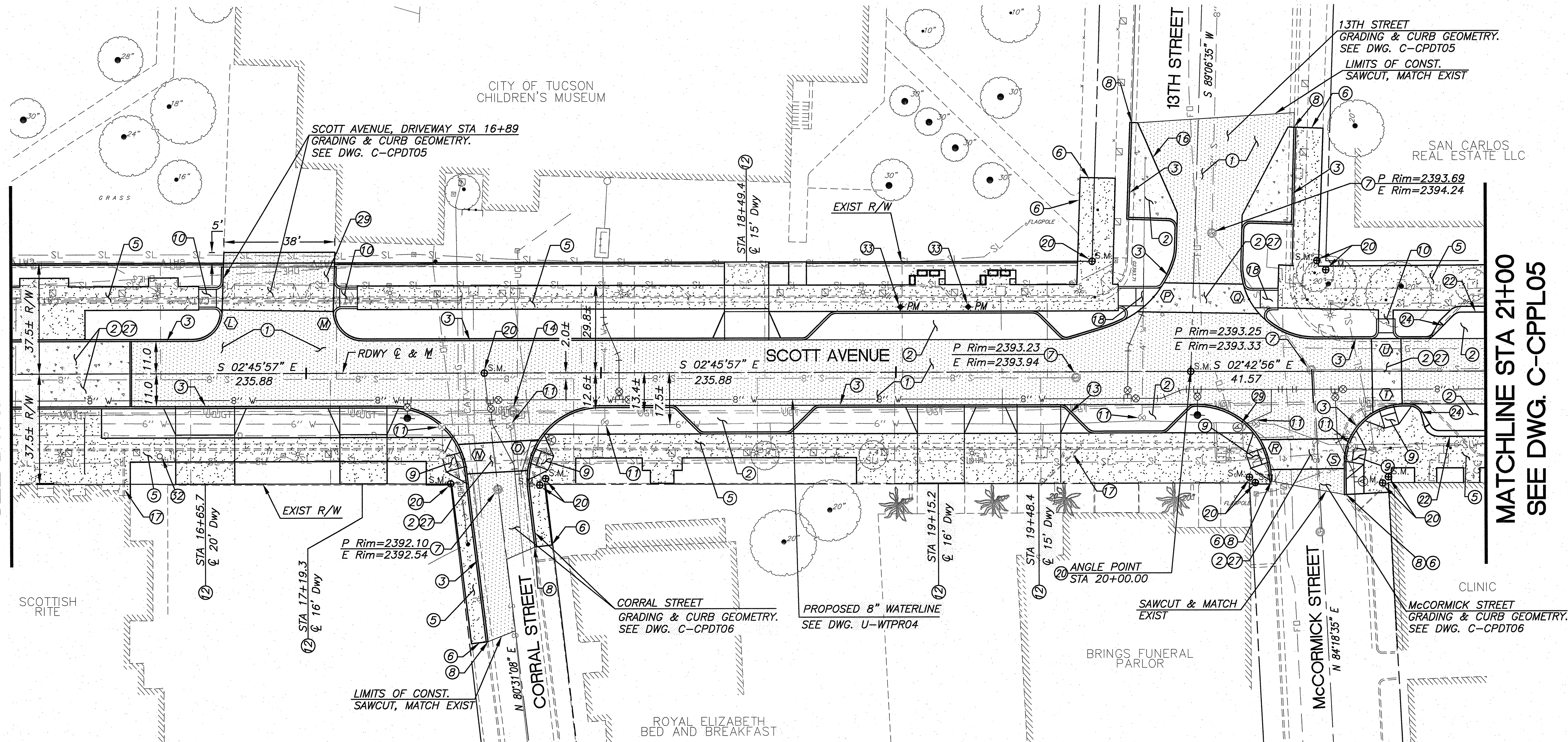
CITY OF TUCSON 34006 DOUGLAS MICHAEL MOSEKE REGISTERED PROFESSIONAL ENGINEER STATE OF ARIZONA U.S.A. Expires 09/30/2011		DRWN. BY V. HO DSGN. BY D. MOSEKE, JD, HP CHKD. BY A. BAIT	REF. C-CPPR03 SCALE: 1"=20' PLAN NO. I-2008-027	18 OF 71
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NO.	DATE	REVISION	BY	CHKD.	APPR.

16+00 17+00 18+00 19+00 20+00 21+00

MATCHLINE STA 16+00
SEE DWG. C-CPPL03

MATCHLINE STA 21+00
SEE DWG. C-CPPL05

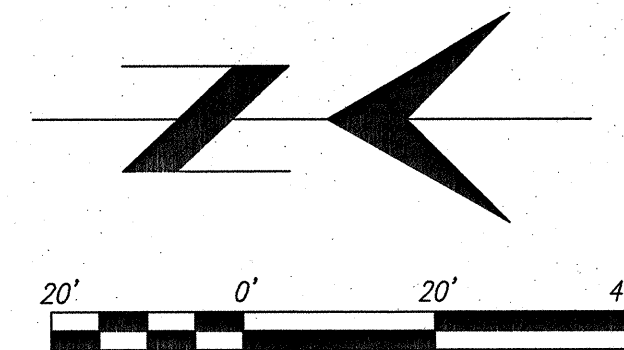


CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2, SEE HARDSCAPE PLANS FOR FINISH
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
⑤	SIDEWALK PER PC/COT STD. DTL. 200, SEE STREETSCAPE PLANS FOR FINISH.
⑥	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑦	ADJUST SANITARY SEWER MH COVER, PC/WWM DTL. 305
⑧	CONC. CURB NEW TO EXIST CONNECTION PER PC/COT STD. DTL. 211(MOD), SEE DWG. C-CPDT07
⑨	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DTL. DWG. C-CPDT01.
⑩	HISTORIC SIDEWALK RAMP, SEE DWG. C-CPDT02
⑪	SEE WATERLINE PLANS FOR VALVE, HYDRANT, AND METER RELOCATION/ADJUSTMENT

CONSTRUCTION NOTES	
⑫	DRIVEWAY APRON, PC/COT STD. DTL. 206 (MOD), SEE DWG. C-CPDT01
⑬	MODIFIED DRIVEWAY WING, SEE DWG. C-CPDT03
⑭	ADJUST EXIST TELEPHONE MANHOLE (BY OTHERS)
⑮	CONCRETE APRON, SEE DWG. SHEET C-CPDT05
⑰	EXTEND EXIST ROOF DRAIN, SEE DWG. C-CPDT03
⑱	HISTORIC SIDEWALK RAMP (MOD), SEE DWG. C-CPDT02
⑳	SURVEY MONUMENT, PC/COT STD. DTL. 103, SEE DWG. C-CPGN04 FOR BRASS CAP LOCATION TABLE
㉑	ROLL CURB AND GUTTER, SEE DWG. C-CPDT02
㉒	RIBBON CURB, SEE DWG. C-CPDT02
㉓	ROLL CURB TO VERTICAL CURB TRANSITION, SEE DWG. C-CPDT07
㉔	CONCRETE CROSSWALK DTL., SEE DWG. C-CPDT01

CONSTRUCTION NOTES	
㉕	NEW AC PVMT, STRUCTURAL SECTION NO. 3
㉖	PROTECT EXISTING STRUCTURE IN PLACE
㉗	INSTALL PARKING METER POST. SEE DWG. C-CPDT08

RAMP CONTROL		
ID	STATION	OFFSET
L	16+71.73	25.56 LT.
M	17+09.34	25.63 LT.
N	17+53.50	28.89 RT.
O	17+76.25	27.66 RT.
P	19+87.45	25.28 LT.
Q	20+19.79	24.56 LT.
R	20+25.90	27.99 RT.
S	20+52.21	27.70 RT.
T	20+66.17	11.85 RT.
U	20+66.17	11.00 RT.



ROADWAY PLAN

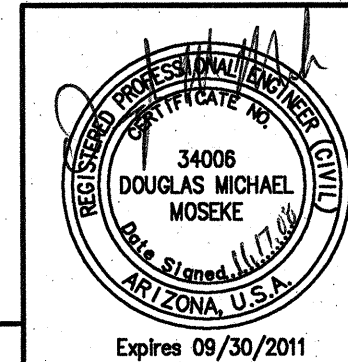
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

19
OF
71

CITY OF TUCSON	DRWN. BY	V. HO	REF. C-CPPL04 SCALE: 1"=20'
	DSGN. BY	D. MOSEKE, JD, HP	
	CHKD. BY	A. BATT	

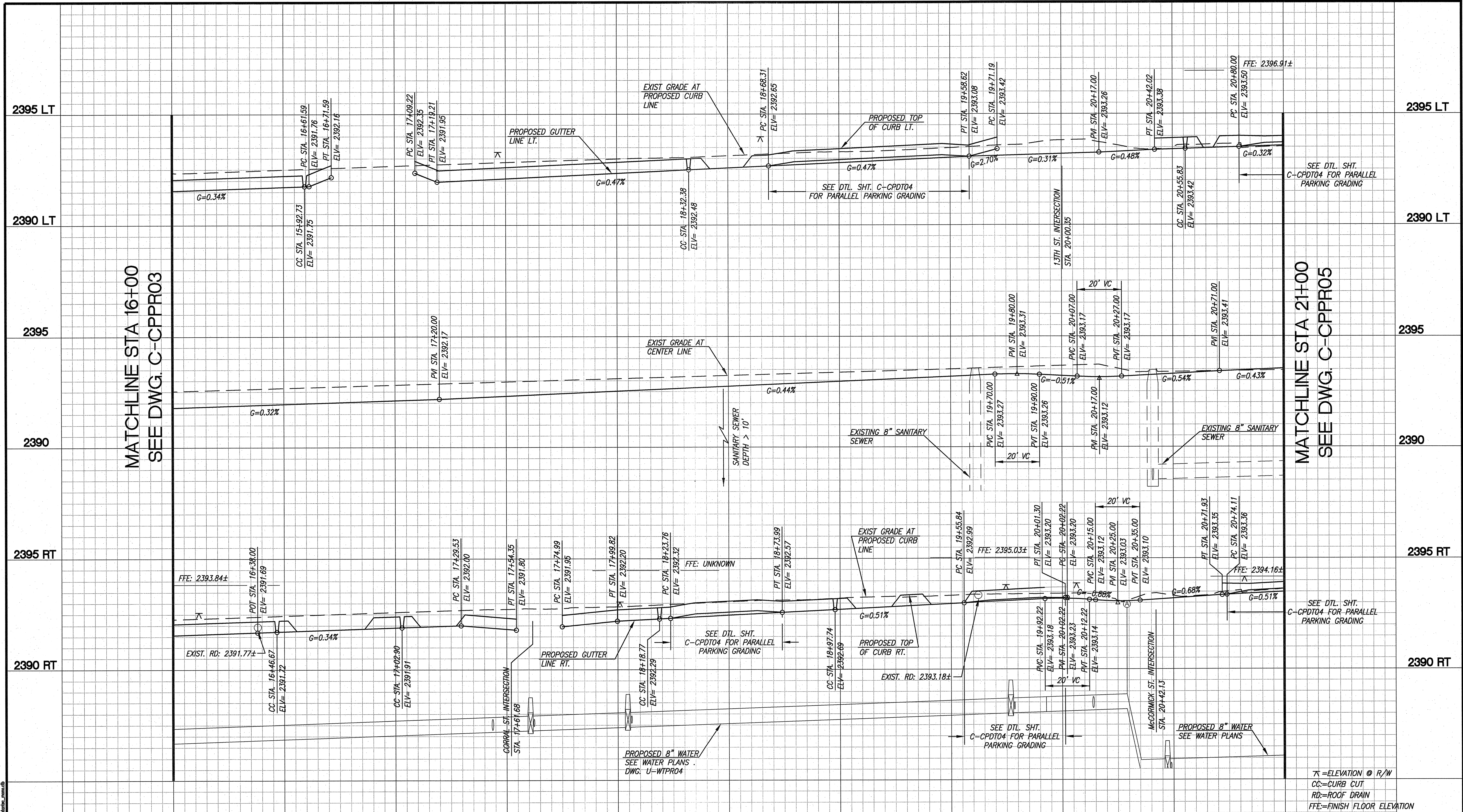
PLAN NO.	I-2008-027
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MATCHLINE STA 16+00
SEE DWG. C-CPPR03

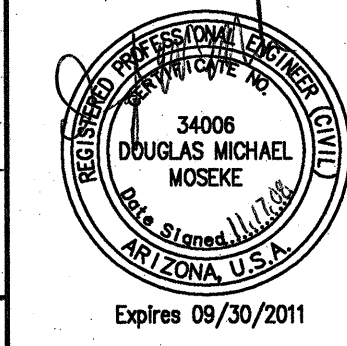
MATCHLINE STA 21+00
SEE DWG. C-CPPR05

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

20+00 ROADWAY PROFILE 21+00

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE. - BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

20 OF 71



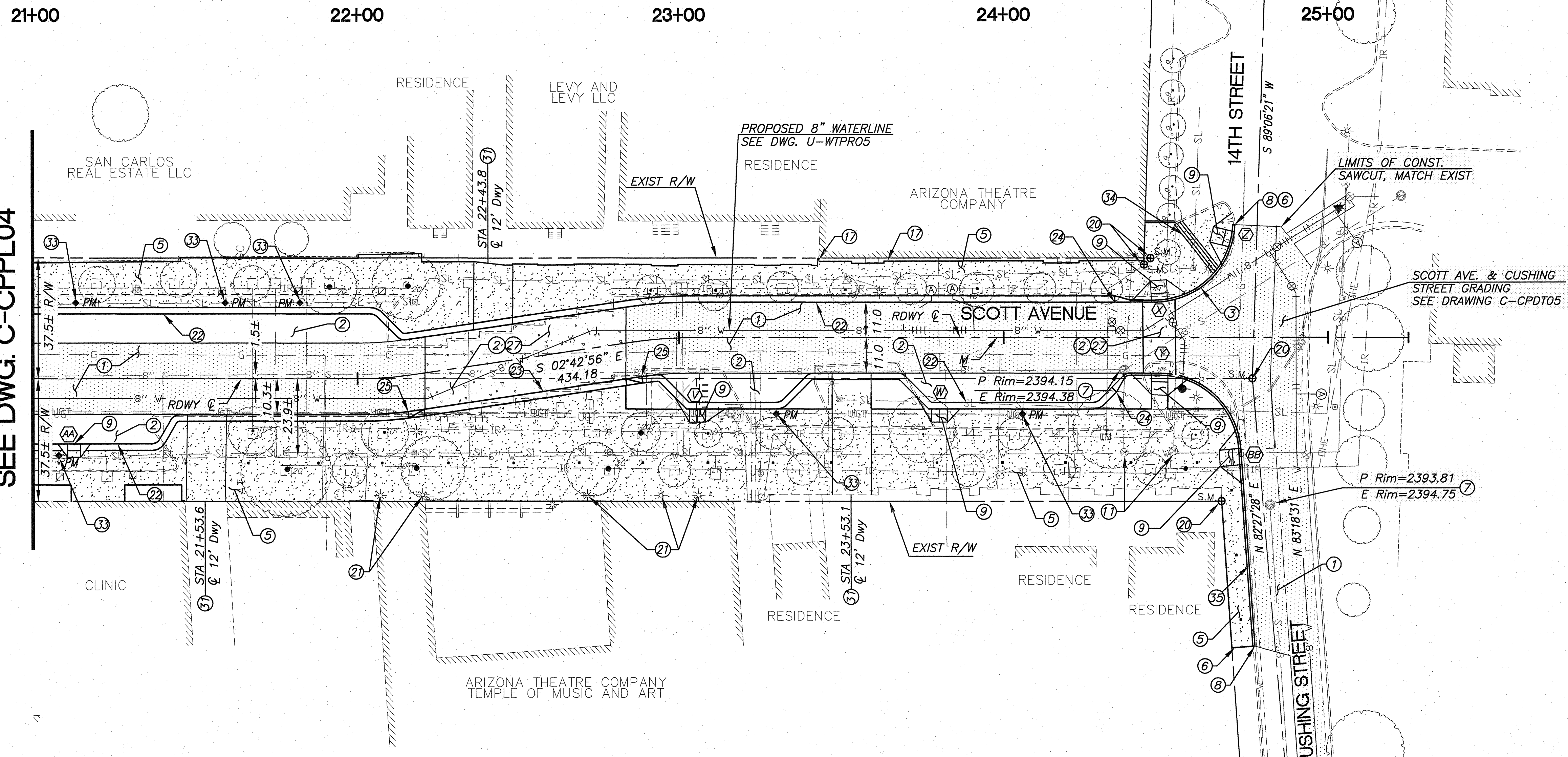
DRWN. BY V. HO
DSGN. BY D. MOSEKE, JD, HP
CHKD. BY A. BAIT

REF. C-CPPR04 SCALE: 1"=20'
PLAN NO. I-2008-027

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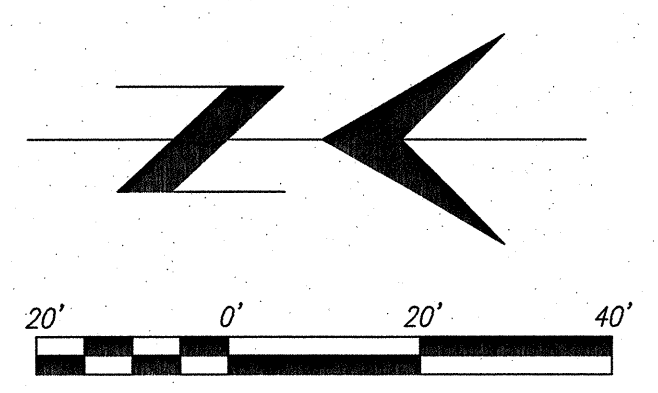
MATCHLINE STA 21+00
SEE DWG. C-CPPL04



CONSTRUCTION NOTES	
①	PVMT STRUCTURAL SEC. NO. 1
②	PVMT STRUCTURAL SEC. NO. 2, SEE HARDSCAPE PLANS FOR FINISH
③	CONC. CURB TYPE 2, H=6" PC/COT STD. DTL. 209, TYPE II
⑤	SIDEWALK PER PC/COT STD. DTL. 200. SEE STREETScape PLANS FOR FINISH.
⑥	CONC. SDWLK NEW TO EXIST CONNECTION, PC/COT STD. DTL. 203
⑦	ADJUST SANITARY SEWER MH COVER, PC/WMM DTL. 305
⑧	CONC. CURB NEW TO EXIST CONNECTION PER PC/COT STD. DTL. 211(MOD), SEE DWG. C-CPDT07
⑨	NEW CONC. CURB ACCESS RAMP, PC/COT STD. DTL. 207, TYPE = 1 (MOD), SEE DTL. DWG. C-CPDT01.
⑪	SEE WATERLINE PLANS FOR VALVE, HYDRANT, AND METER RELOCATION/ADJUSTMENT
⑫	EXTEND EXIST ROOF DRAIN, SEE DWG. C-CPDT03

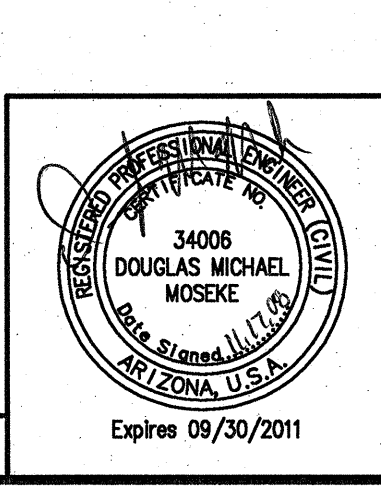
CONSTRUCTION NOTES	
⑳	SURVEY MONUMENT, PC/COT STD. DTL. 103, SEE DWG. C-CPGN04 FOR BRASS CAP LOCATION TABLE
㉑	ADJUST EXIST LIGHTS TO MATCH S/W GRADE
㉒	ROLL CURB AND GUTTER, SEE DWG. C-CPDT02
㉓	RIBBON CURB, SEE DWG. C-CPDT02
㉔	ROLL CURB TO VERTICAL CURB TRANSITION, SEE DWG. C-CPDT07
㉕	RIBBON CURB TO ROLL CURB TRANSITION PER DTL. SHEET C-CPDT07
㉖	CONCRETE CROSSWALK DTL., SEE DWG. C-CPDT01
㉗	DRIVEWAY APRON, PC/COT STD. DTL. 206 (MOD) WITH ROLL CURB AND GUTTER, SEE DWG. C-CPDT01 FOR SCOTT AVE SCIUPPER
㉘	INSTALL PARKING METER POST. SEE DWG. C-CPDT08
㉙	SIDEWALK SCUPPER, TYPE 2, PC/COT STD. DTL. 205 SEE DWG. C-CPDT01 FOR SCOTT AVE SCUPPER
㉚	CONC. CURB TYPE 2, H=8" PC/COT STD. DTL. 209, TYPE II

RAMP CONTROL		
①	23+05.62	20.00 RT
②	23+80.20	20.00 RT
③	24+48.01	11.06 LT
④	24+48.07	11.00 RT
⑤	24+70.65	30.37 LT
⑥	21+12.69	20.00 RT
⑦	24+73.18	36.59 RT



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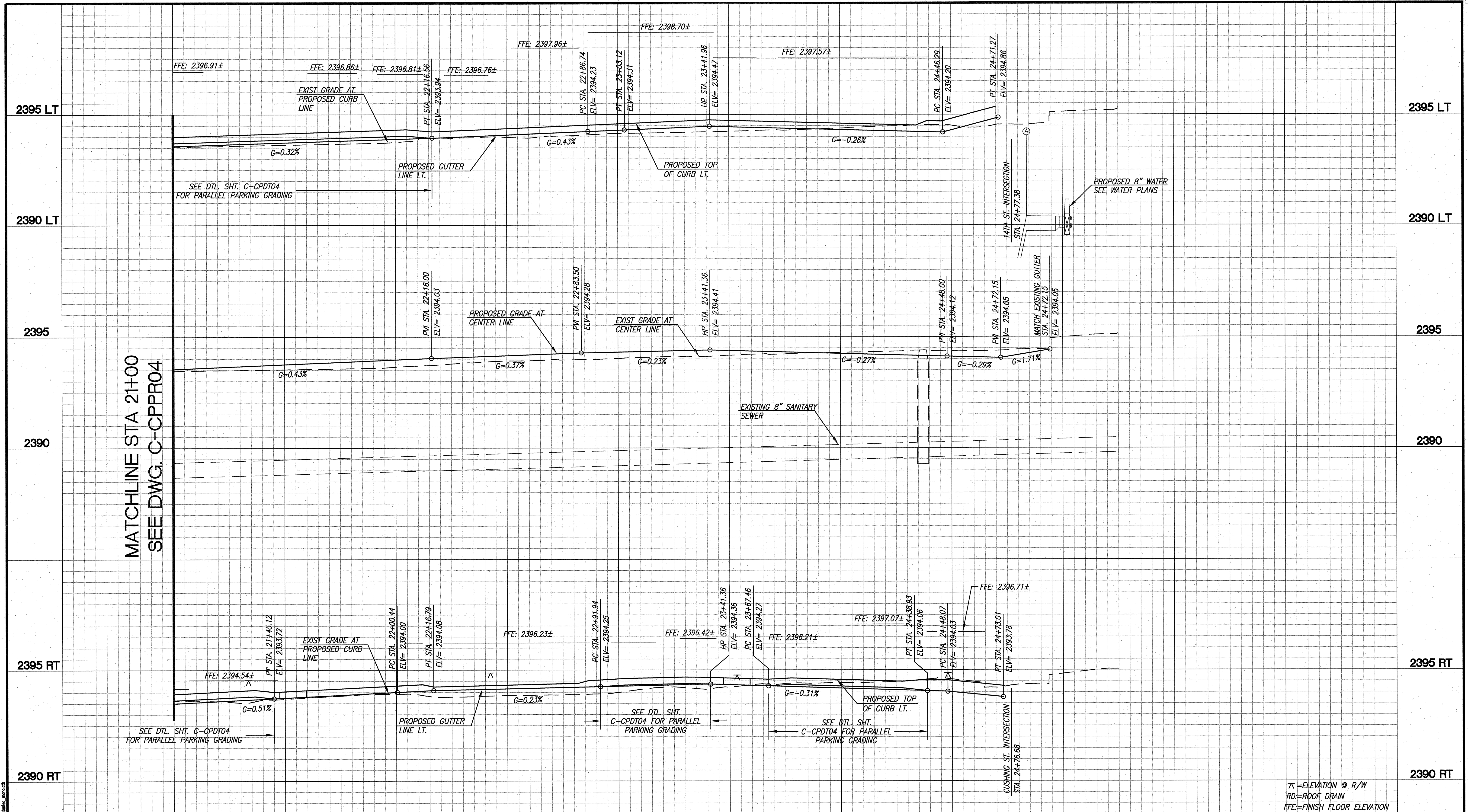
ROADWAY PLAN

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETScape PROJECT**

21 OF 71

DRWN. BY	V. HO	REF.	C-CPPL05	SCALE:	1"=20'
DSGN. BY	D. MOSEKE, JD, HP	PLAN NO.	I-2008-027		
CHKD. BY	A. BATT				

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 21+00
SEE DWG. C-CPPR04

21+00

22+00

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ROADWAY PROFILE

**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT**

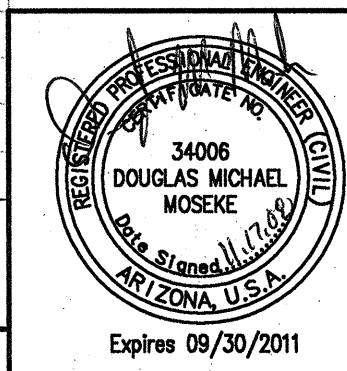
22
OF
71

REF. C-CPPR05 SCALE: 1"=20'

PLAN NO. I-2008-027



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



NO.	DATE	REVISION	BY	CHKD.	APPR.

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PAVEMENT MARKING NOTES

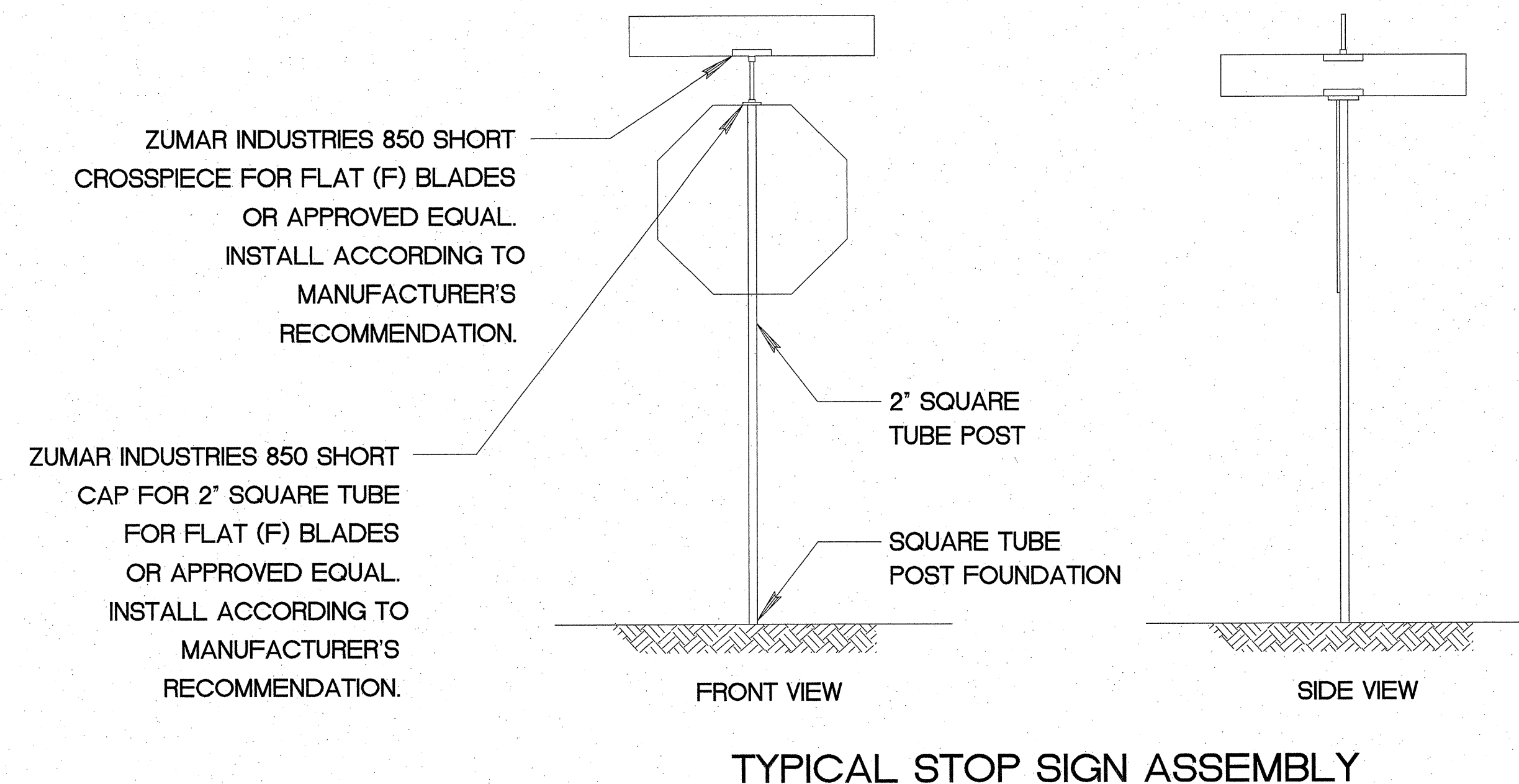
- ALL PAVEMENT MARKINGS SHALL CONFORM TO PIMA COUNTY / CITY OF TUCSON (PC/COT) STANDARDS AND SPECIFICATIONS.
- THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE TRAFFIC ENGINEER.
- THE DESIGN SPEED FOR THE ROAD IS: 30mph. THE DESIGN VEHICLE IS: WB-40. THE POSTED SPEED LIMIT IS: 25mph.
- 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 THAT 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 THAT 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.
- 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.

STRIPING LEGEND

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

SIGNING NOTES

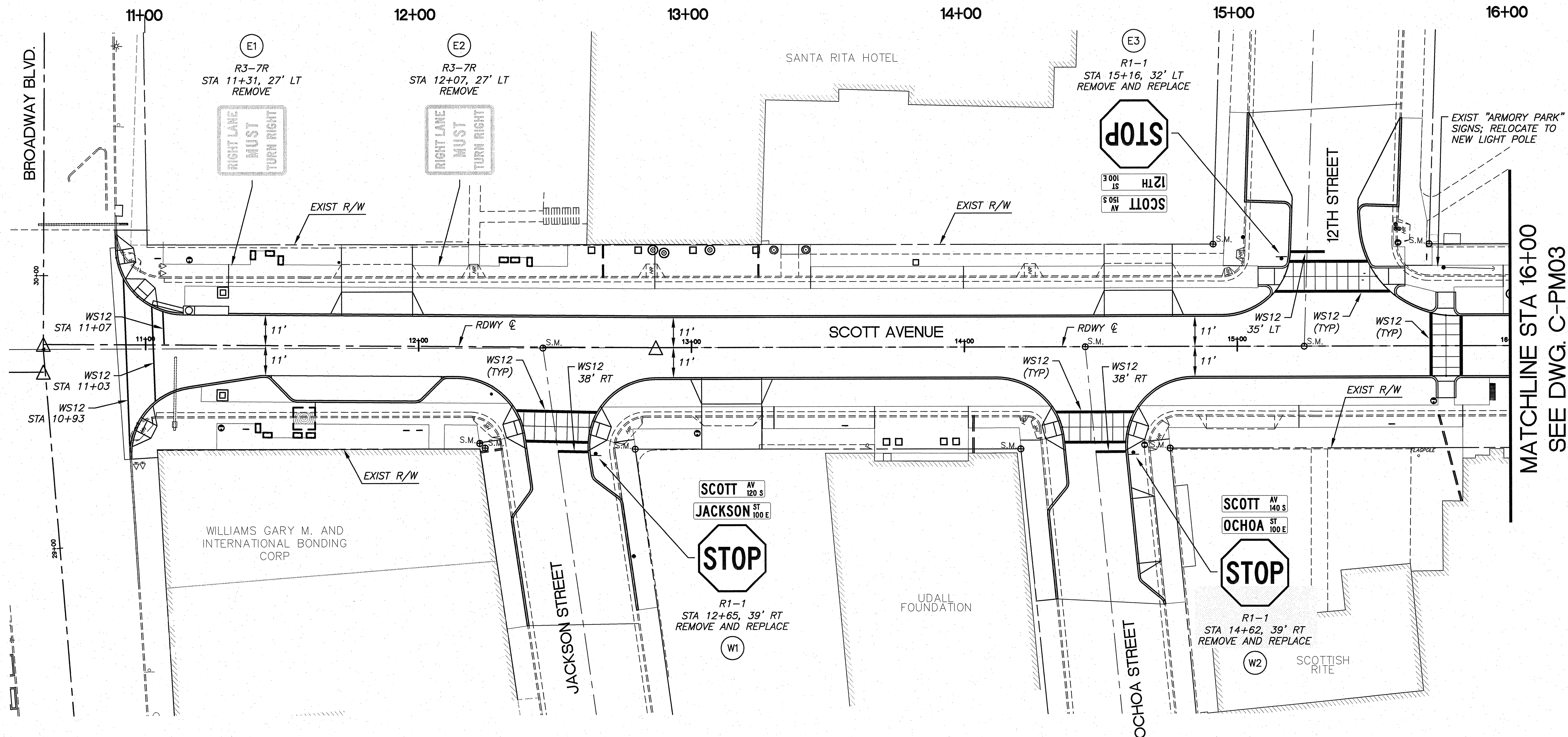
- ALL SIGNS SHALL BE IN COMPLIANCE WITH THE 2003 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE 2002 EDITION OF THE PIMA COUNTY AND CITY OF TUCSON TRAFFIC SIGNING DESIGN MANUAL, THESE PLANS, AND THE SPECIAL PROVISIONS.
- SIGNS MAY BE MODIFIED AND LOCATION ADJUSTED TO FIT CONDITIONS AS DIRECTED BY THE ENGINEER.
- POST LENGTHS INDICATED ON SIGN SUMMARY SHEETS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL POST LENGTHS.
- ALL PERFORATED POSTS 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 SCOTT AVE CONSTRUCTION CENTERLINE.
- REMOVE ALL EXISTING PARKING SIGNS BETWEEN BROADWAY BLVD AND 13 ST.
- 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.



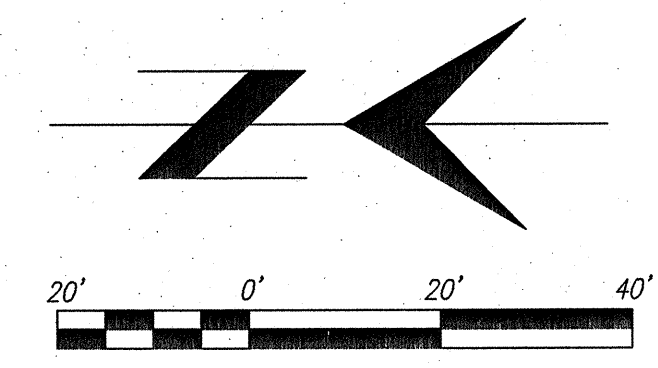
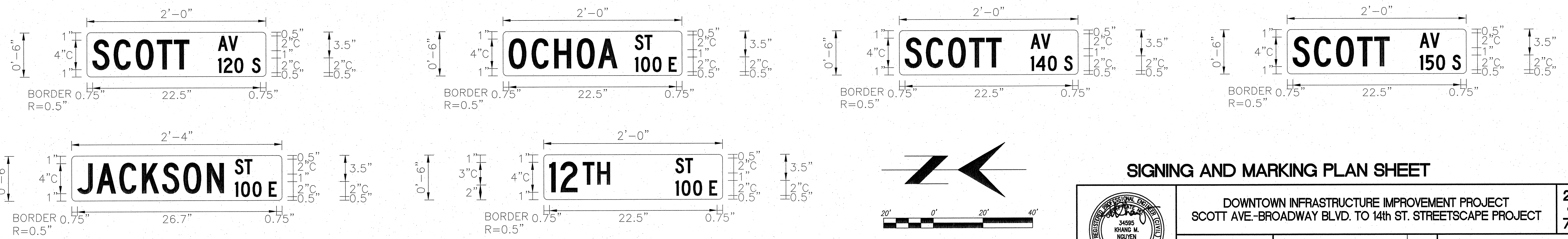
SIGNING AND MARKING NOTES

	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		23 OF 71
	DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. C-PM01 SCALE: N.T.S.	PLAN NO. I-2008-027
	CITY OF TUCSON		

NO.	DATE	REVISION	BY	CHKD.	APPR.

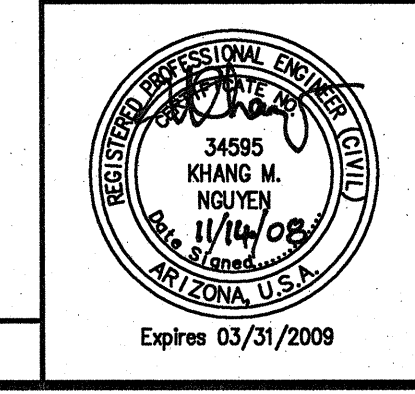


MATCHLINE STA 16+00
SEE DWG. C-PM03



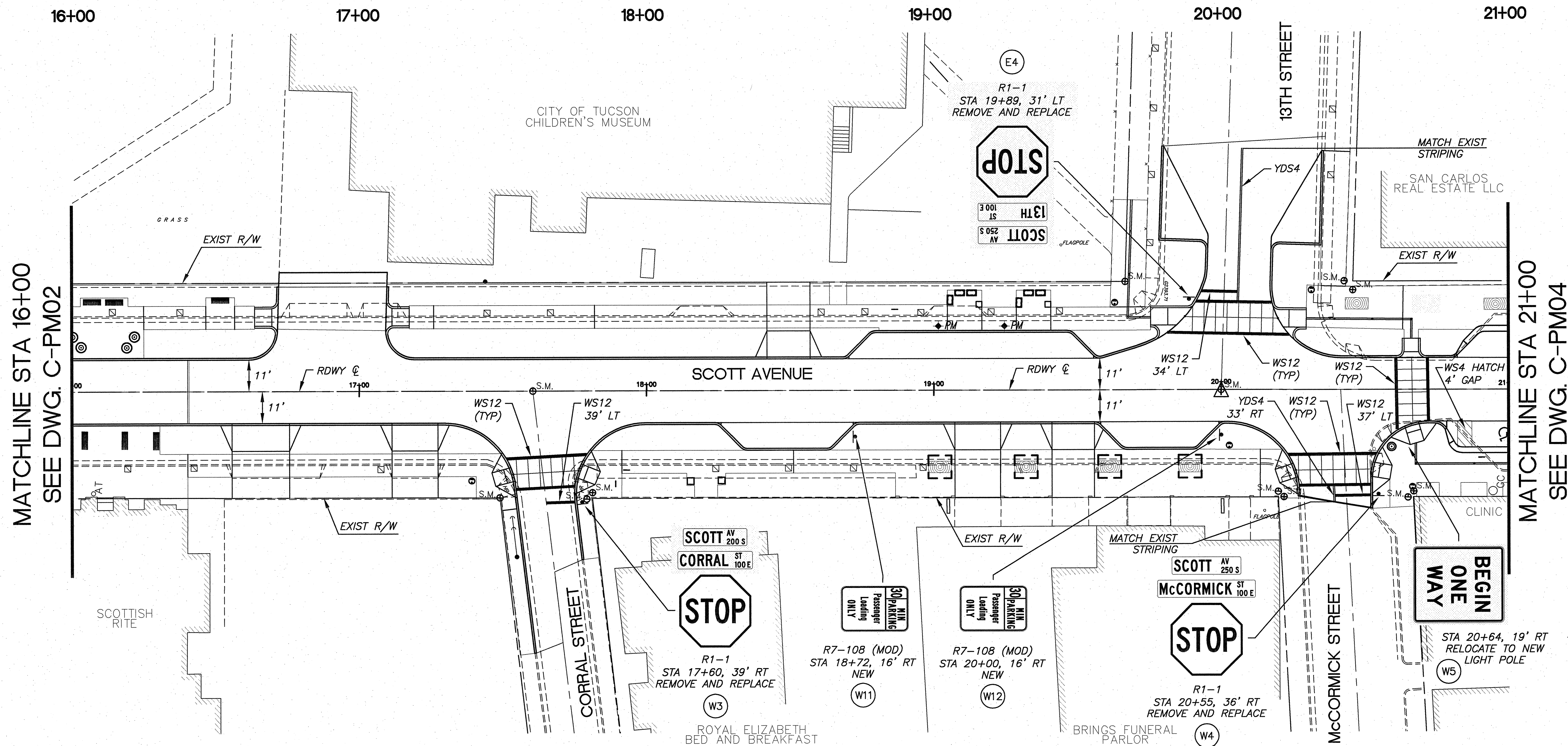
SIGNING AND MARKING PLAN SHEET

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		25 OF 71
DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. C-PM02 SCALE: 1"=20' PLAN NO. I-2008-027	



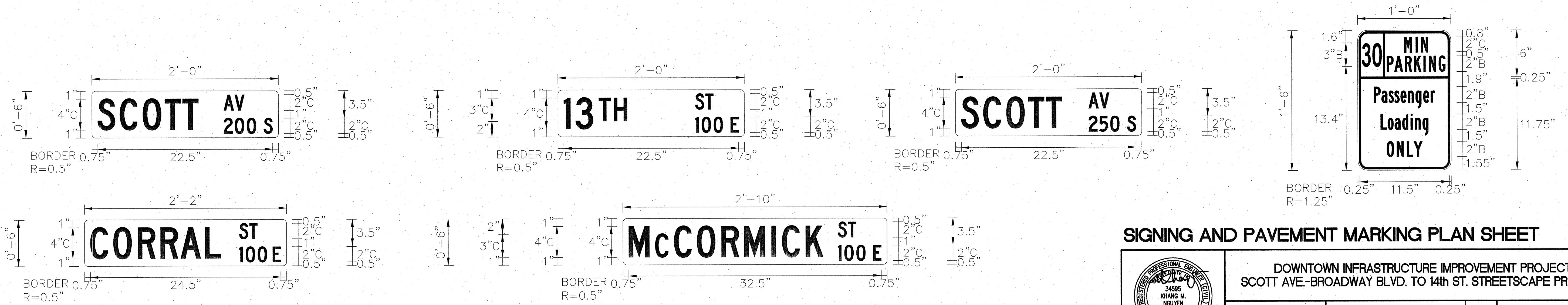
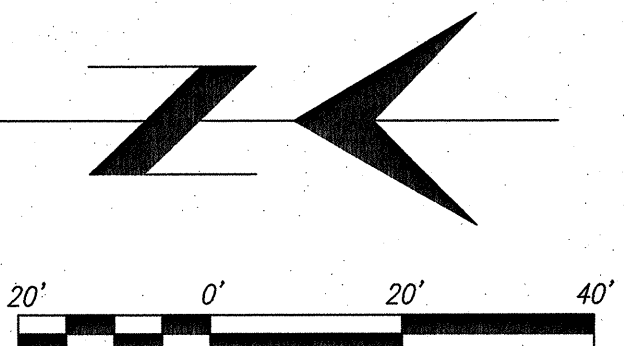
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SEE DWG. C-PM02

MATCHLINE STA 21+00
SEE DWG. C-PM04



SIGNING AND PAVEMENT MARKING PLAN SHEET

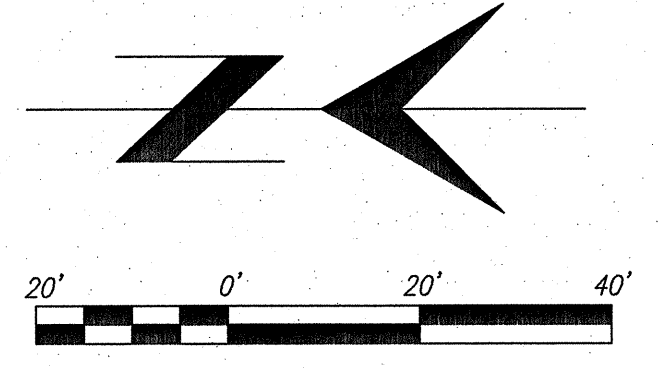
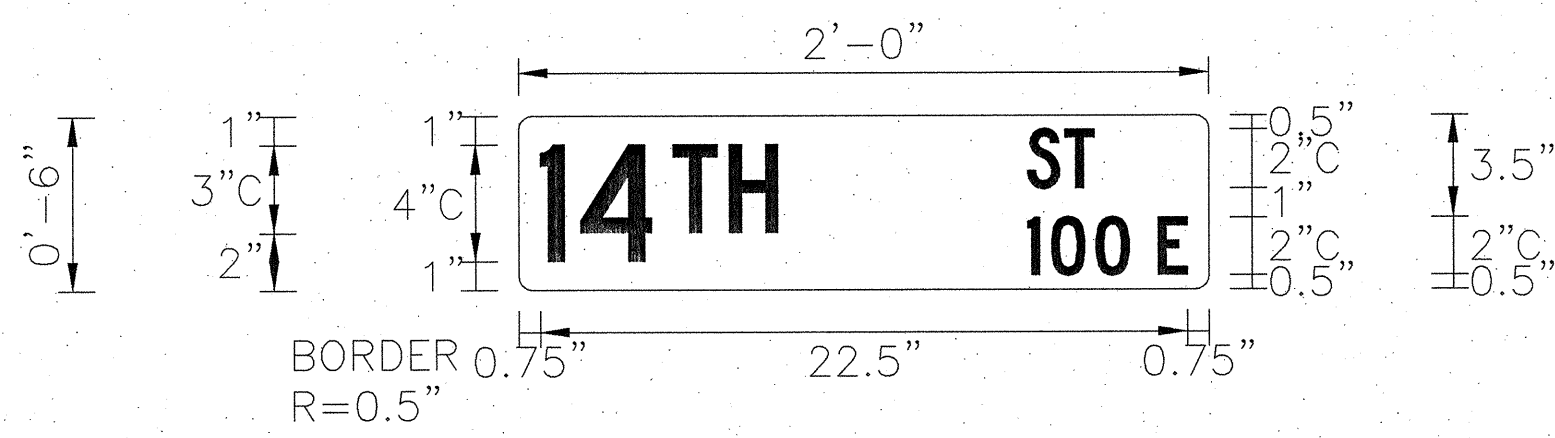
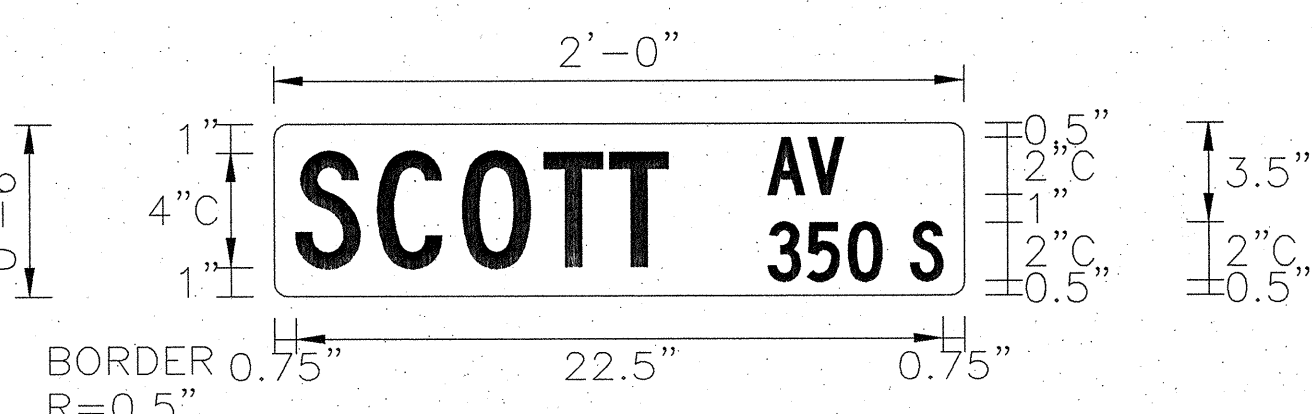
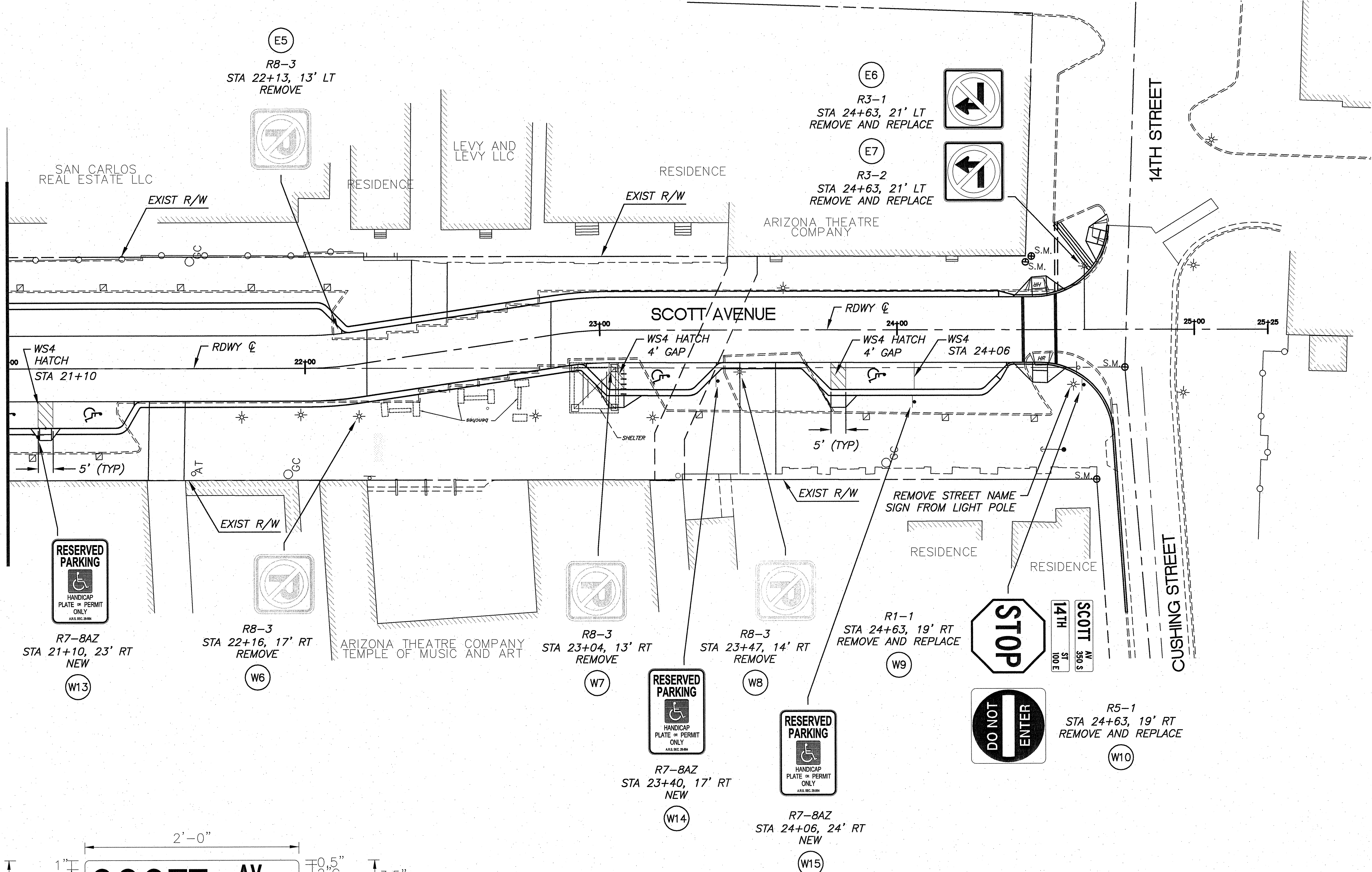
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	<p>DRWN. BY T. RADEMAN</p>	<p>REF. C-PM03 SCALE: 1"=20'</p>	
	<p>DSGN. BY T. RADEMAN</p>	<p>PLAN NO. I-2008-027</p>	
<p>CHKD. BY K. NGUYEN</p>			

NO.	DATE	REVISION	BY	CHKD.	APPR.

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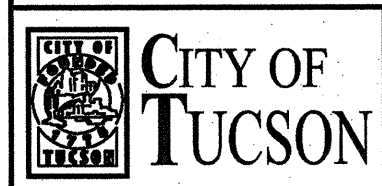
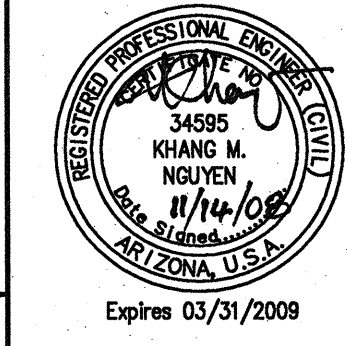
MATCHLINE STA 21+00
SEE DWG. C-PM03



SIGNING AND MARKING PLAN SHEET

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

27
OF
71



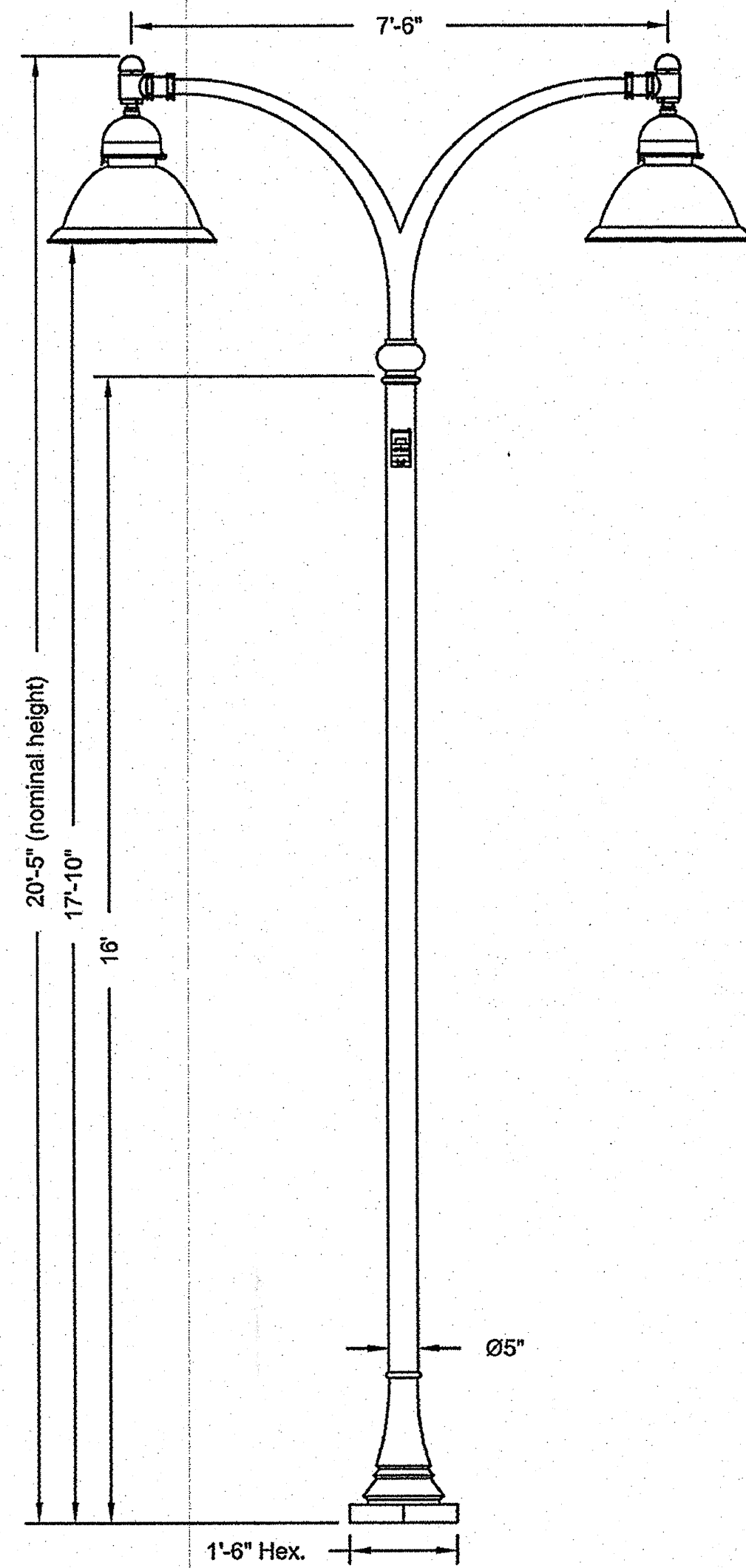
DRWN. BY T. RADDEMAN
DSGN. BY T. RADDEMAN
CHKD. BY K. NGUYEN

REF. C-PM04 SCALE: 1"=20'
PLAN NO. I-2008-027

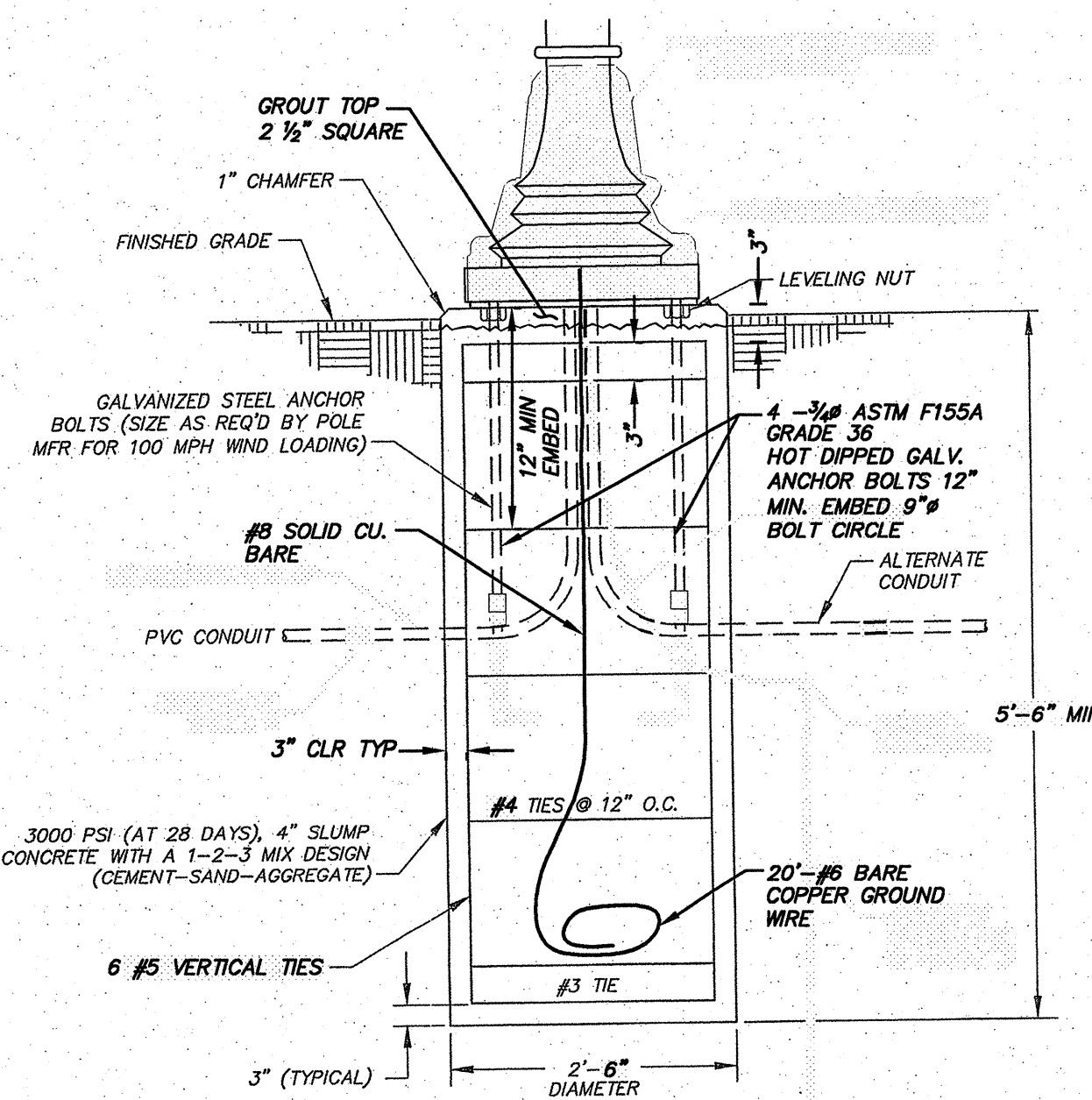
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SCOTT AVENUE LIGHTING POLE, CROSS ARM, AND LUMINAIRE



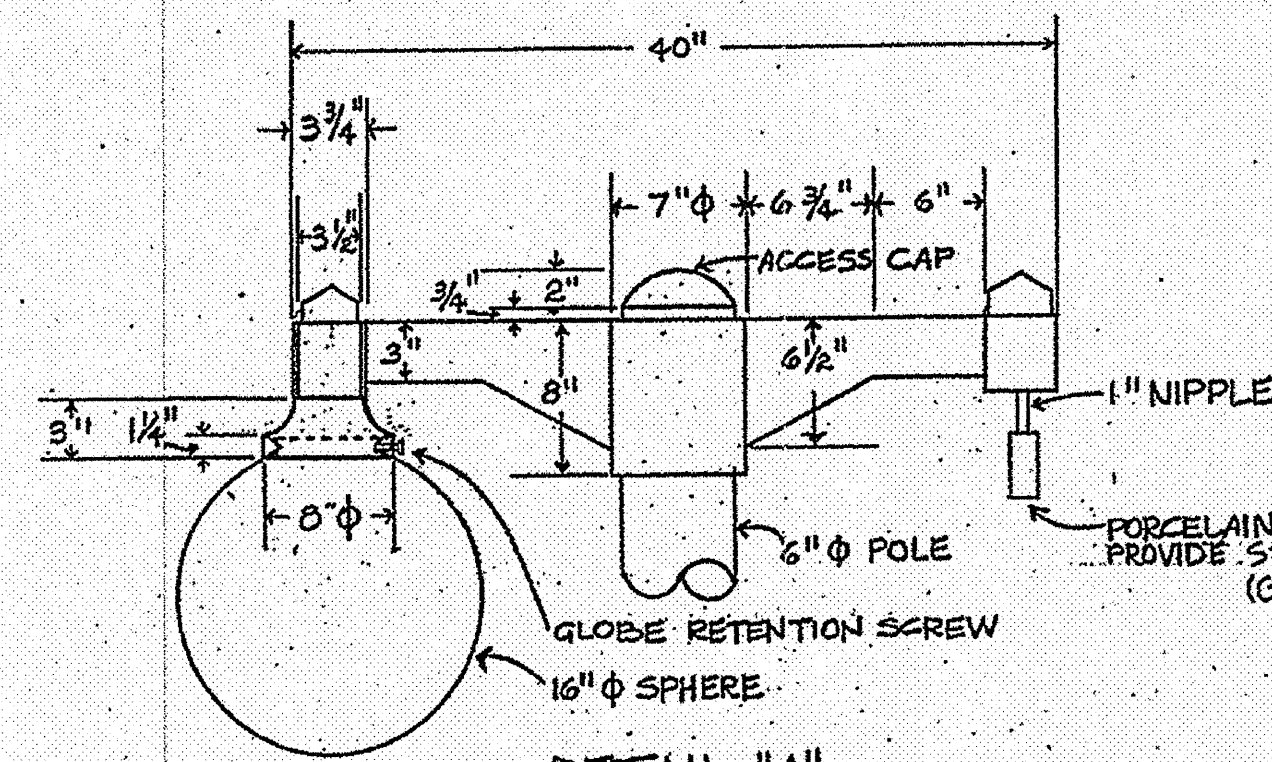
(SEE SPECIAL PROVISIONS FOR DETAILS)



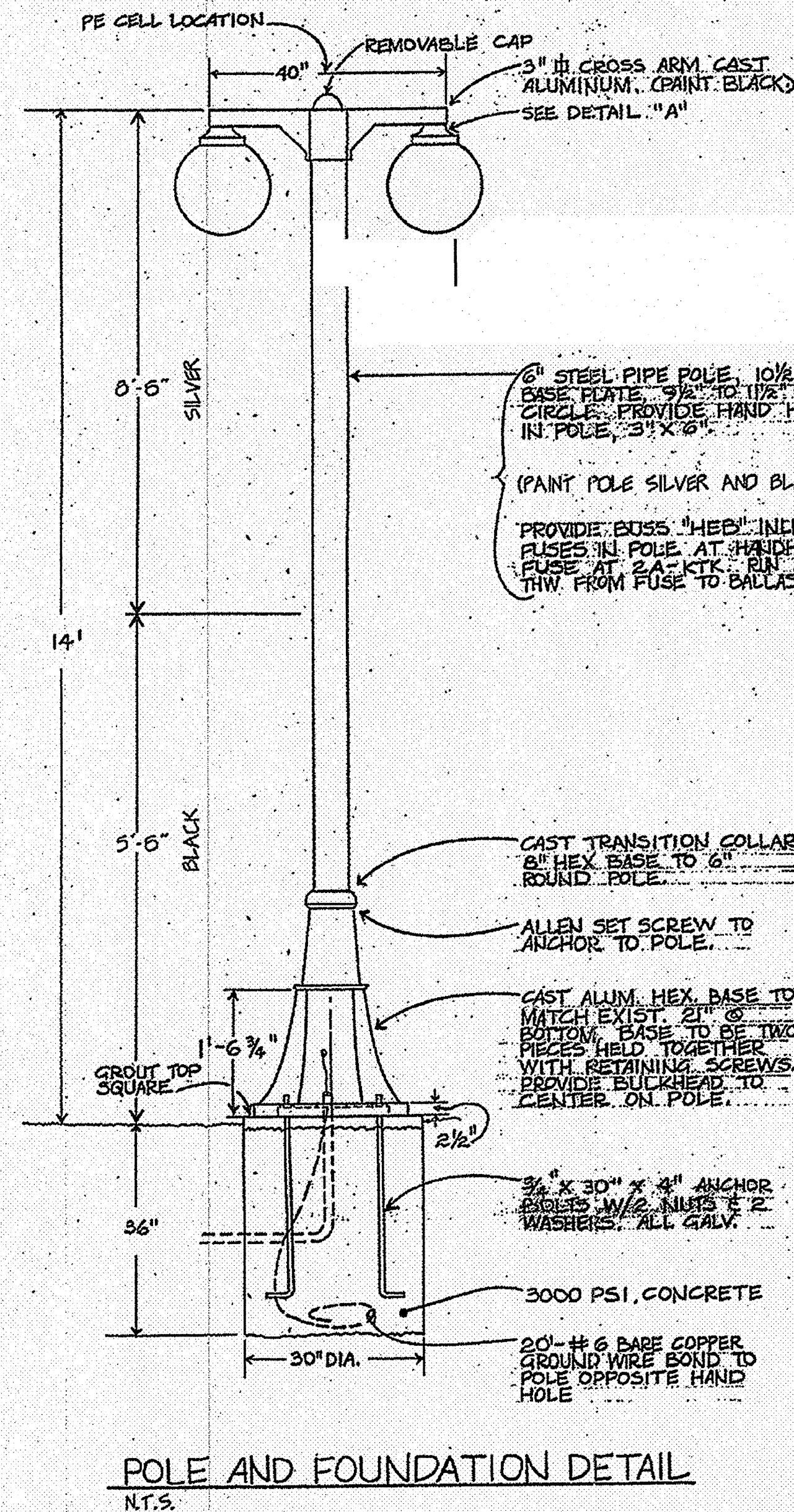
SCOTT AVENUE POLE FOUNDATION DETAIL

GENERAL NOTES:

- ALL CONSTRUCTION AND TESTING METHODS SHALL BE IN CONFORMANCE WITH THE PIMA COUNTY / CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2003 EDITION, EXCEPT AS MODIFIED HEREIN.
- ALL SCOTT AVENUE STREET LIGHTING POLES SHALL BE PRINCETON STYLE 16-FOOT HIGH ALUMINUM WITH A 54" TWIN CROSSARM AND IN CONFORMANCE WITH THE SCOTT AVENUE LIGHTING POLE DETAIL (THIS SHEET) AND THE SPECIAL PROVISIONS. POLE SHALL BE HOLOPHANE CATALOG NUMBER PT16S5X/18-CA/CMH WITH HOLOPHANE CROSS ARM PART NUMBER OUC90/2-CAAS OR APPROVED EQUAL.
- ALL LUMINAIRES 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 OR APPROVED EQUAL.
- ALL POLE SETBACKS SHALL BE FIVE FEET FROM BACK OF CURB OR AS NOTED ON THE PLANS.
- EXACT LOCATION OF EACH NEW PULL BOX, LIGHT POLE, AND CONDUIT RUN SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- ALL PULL BOXES SHALL BE INSTALLED WITH A 6-INCH COLLAR PER PC/COT STD. DTL. T106.
- ANY CONDUIT LESS THAN 30" DEEP SHALL BE ENCASED IN CONCRETE. ALL CONDUIT CROSSING THE STREET SHALL BE ENCASED IN CONCRETE PER PC/COT STD. DTL. T713.
- THE CONTRACTOR SHALL CONTACT BLUESTAKE (1-800-782-5348) 48 HOURS IN ADVANCE FOR VERIFICATION OF UNDERGROUND UTILITY LOCATIONS.
- 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.
- CONDUIT LOCATIONS SHOWN ON THE PLANS ARE SCHEMATIC. THE CONTRACTOR SHOULD LOCATE THE CONDUIT TO AVOID CONFLICTS WITH OTHER UTILITIES.
- AT POLE FOUNDATIONS CLOSE TO EXISTING SANITARY SEWER, CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO (2) FEET HORIZONTAL AND VERTICAL SEPARATION FROM OUTSIDE OF PIPE.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 6" VERTICAL SEPARATION BETWEEN ELECTRICAL CONDUIT AND WATER SERVICE LINES.
- TREE REMOVAL OR PRUNING MUST FIRST BE APPROVED BY TDOT LANDSCAPE ARCHITECT GARY WITTMER AT 837-6618.

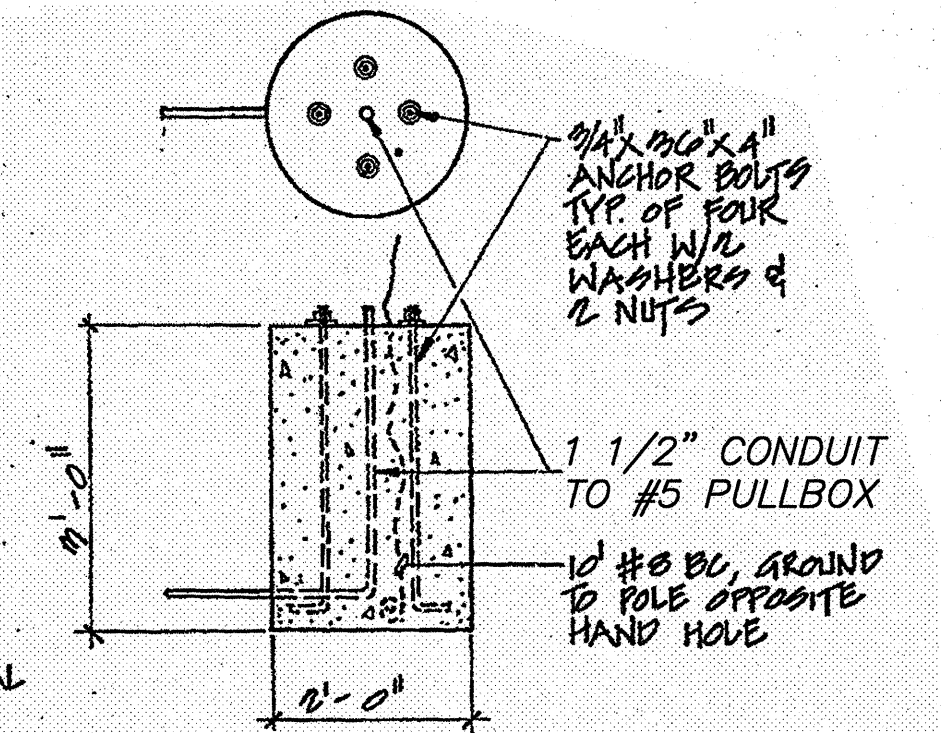


DETAIL "A"
N.T.S.



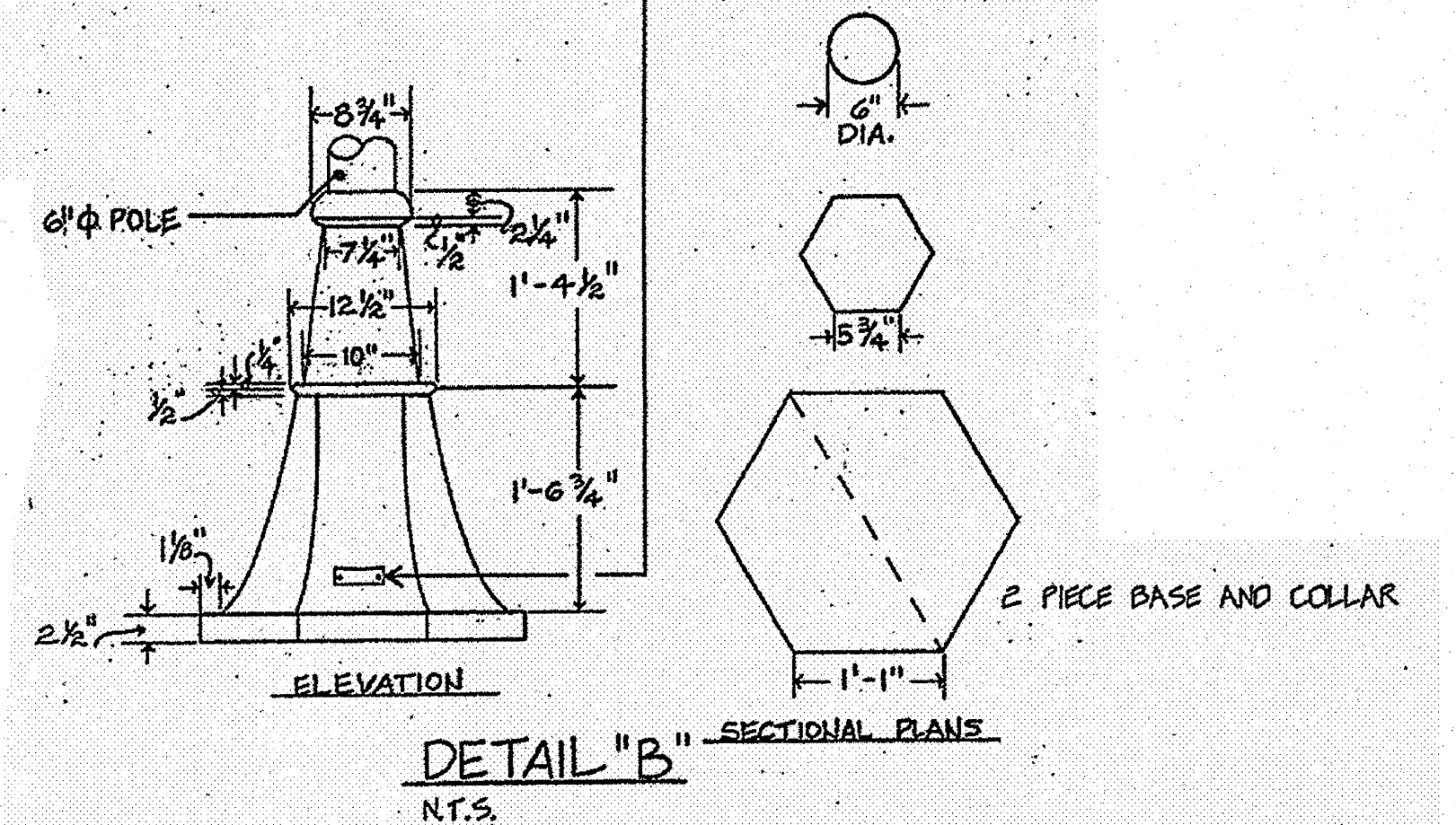
POLE AND FOUNDATION DETAIL
N.T.S.

ARMORY PARK MODIFIED HISTORIC REPLICIA POLE



SINGLE GLOBE POLE BASE DETAIL

RIVET POLE LABEL TO BASE. LABEL WILL INDICATE MANUFACTURER, DATE, AND TYPE (ARMORY PARK TYPE POLE)



DETAIL "B"
N.T.S.

"HEY" WATERPROOF FUSE HOLDER WITH 5.0A "KTK" FU. (SECONDARY)
CONDUIT AND CONDUCTORS AS INDICATED ON PLAN.
750VA TRANSFORMER. SEE SPECS.
U.L. LISTED WATERPROOF SPLICE ASSEMBLY (TYPICAL)
PULLBOX.

POLE CONNECTION DETAIL
N.T.S.

POLE FOUNDATION
1.5" PVC WITH 4 #12 & 1 #8 GND.
HIGH
LOW

LIGHTING PLANS

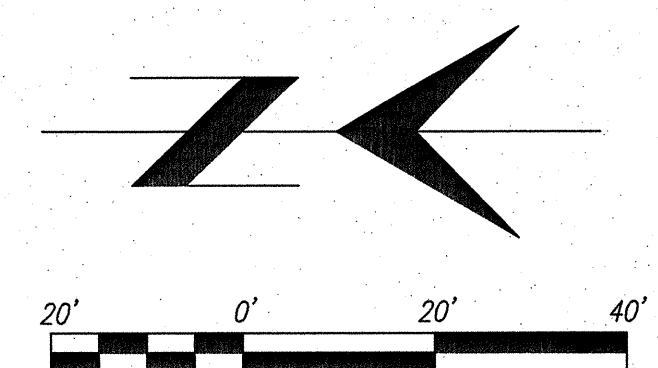
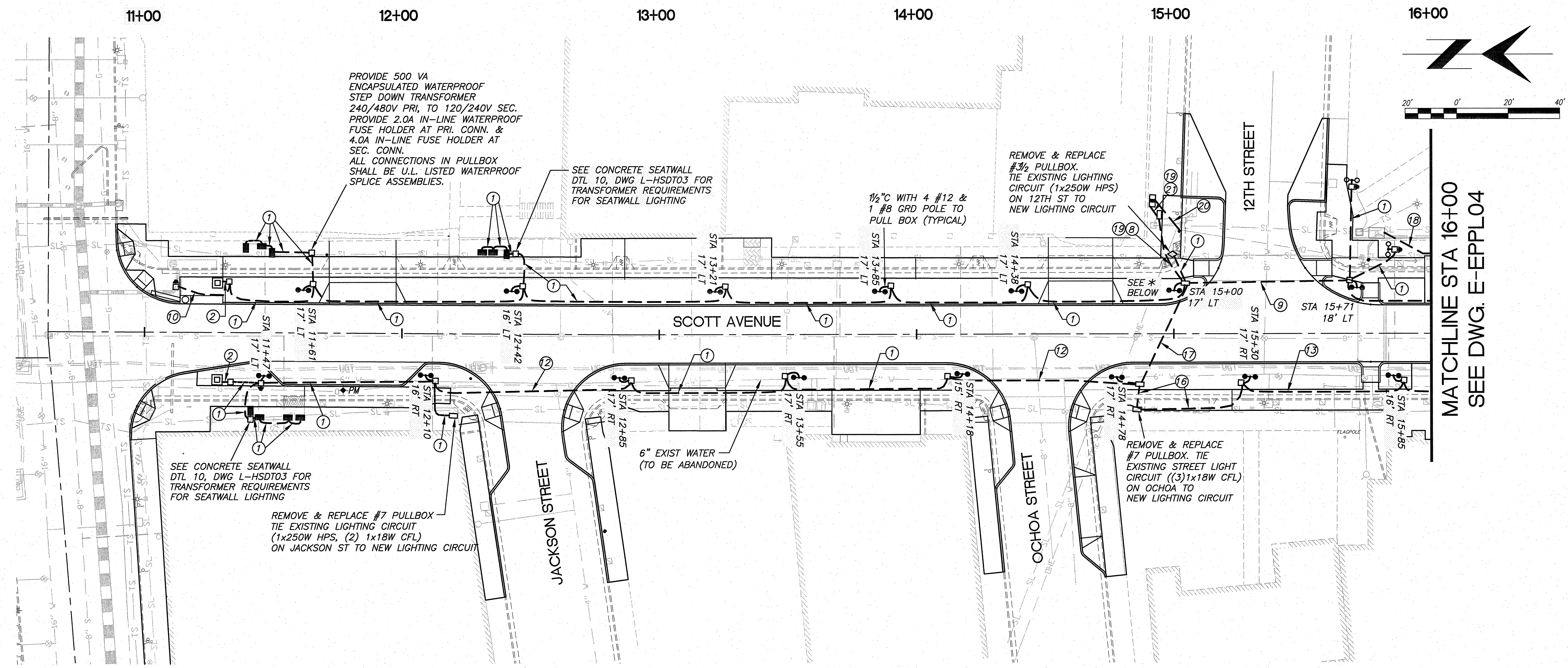
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

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

REF. E-EPGN01 SCALE:
PLAN NO. I-2008-027

Professional Engineer
47724
KRIS BROWN
Date Signed 11/25/08
EXPIRES 03/31/2011

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 16+00
SEE DWG. E-EPPL04

CONDUCTOR SCHEDULE	
①	2" PVC CONDUIT WITH 2 #8 & 1 #8 GND
②	2" PVC CONDUIT WITH PULLSTRING
③	2" PVC CONDUIT WITH 2 #2 & 1 #2 GND
④	3" PVC CONDUIT WITH 2 #1/0 & 1 #1/0 GND
⑤	2" PVC CONDUIT WITH 2 #1/0 & 1 #1/0 GND
⑥	2" PVC CONDUIT WITH 2 #4 & 1 #4 GND
⑦	3" PVC CONDUIT WITH 2 #1 & 1 #1 GND
⑧	2" PVC CONDUIT WITH 3 CONDUCTOR #12 IMSA CABLE FOR PHOTOCELL, 2 #1, 2 #8 & 1 #1 GND 2" PVC CONDUIT WITH 2 #1/0, 2 #6, 1 #1/0 GND
⑨	3" PVC CONDUIT WITH 2 #1, 2 #8 & 1 #1 GND
⑩	2" PVC CONDUIT WITH 1 #6 GND
⑫	3" PVC CONDUIT WITH 2 #8 & 1 #8 GND

CONDUCTOR SCHEDULE	
⑬	2" PVC CONDUIT WITH 2 #1/0, 2 #8 & 1 #1/0 GND
⑭	3" PVC CONDUIT WITH 2 #1/0, 2 #8 & 1 #1/0 GND
⑮	2" PVC CONDUIT WITH 2 #1/0, 2 #6 & 1 #1/0 GND
⑰	3" PVC CONDUIT WITH 2 #1/0, 2 #6 & 1 #1/0 GND
⑱	FIBER OPTICS CONDUIT - 4" PVC CONDUIT WITH 4 - 1" PVC INNERDUCTS, #10 AWG CU STRANDED GREEN CONDUCTOR & 1250# MULETAPE
⑳	1/2" CONDUIT TO CONNECT TEP SERVICE TO NEW STREET LIGHTING CABINET
㉑	(1) 3" PVC CONDUIT WITH 2 #1/0, 2 #6, 1 #1/0 GND, (1) 3" PVC CONDUIT WITH 3 CONDUCTOR #12 IMSA CABLE FOR PHOTOCELL, 2 #1, 2 #8 & 1 #1 GND, AND (2) 2" EMPTY SPARES WITH PULL STRING

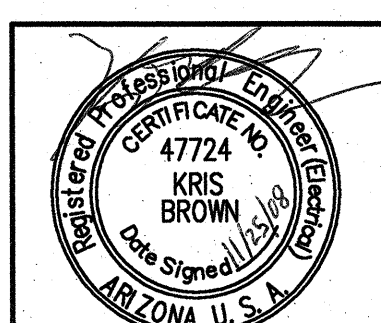
- TYPE I STREET LIGHTING CABINET (PC/COT STD. DTL. T 325)
- GROUND ROD
- #7 PULLBOX
- PROPOSED LIGHT
- #5 PULLBOX
- ARMORY PARK 2 GLOBE DECORATIVE LIGHT
- SEAT WALL LIGHTS
- #3/2 Pullbox symbol"/> #3/2 PULLBOX

- GENERAL NOTES**
- A. ALL CONDUCTORS TO BE COPPER, STRANDED WITH XHHW INSULATION.
 - B. INSTALL 750 VA TRANSFORMER IN PULLBOX ADJACENT TO ALL STREET LIGHTS INCLUDING ARMORY PARK AND SINGLE GLOBE LIGHTS (SEE DETAIL E-EPGN01 AND SPECIAL PROVISIONS)
 - C. ALL CIRCUITS ARE 30A, 480V, 1Ø. SEE DTL T-325 AND LOAD CALCULATION ON SHEET E-EPPL05

* CONDUIT RUN FROM POLE BOX TO POLE SHALL BE 1/2" PVC WITH 4 #12 & 1 #8 GRD & 3 CONDUCTOR #12 IMSA CABLE FOR PHOTOCELL. LOCATE PHOTOCELL ON TOP OF POLE.

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

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LIGHTING PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

29
OF
71



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

REF.	E-EPPL03	SCALE:	1"=20'
PLAN NO.	I-2008-027		

NO.	DATE	REVISION	BY	CHKD.	APPR.

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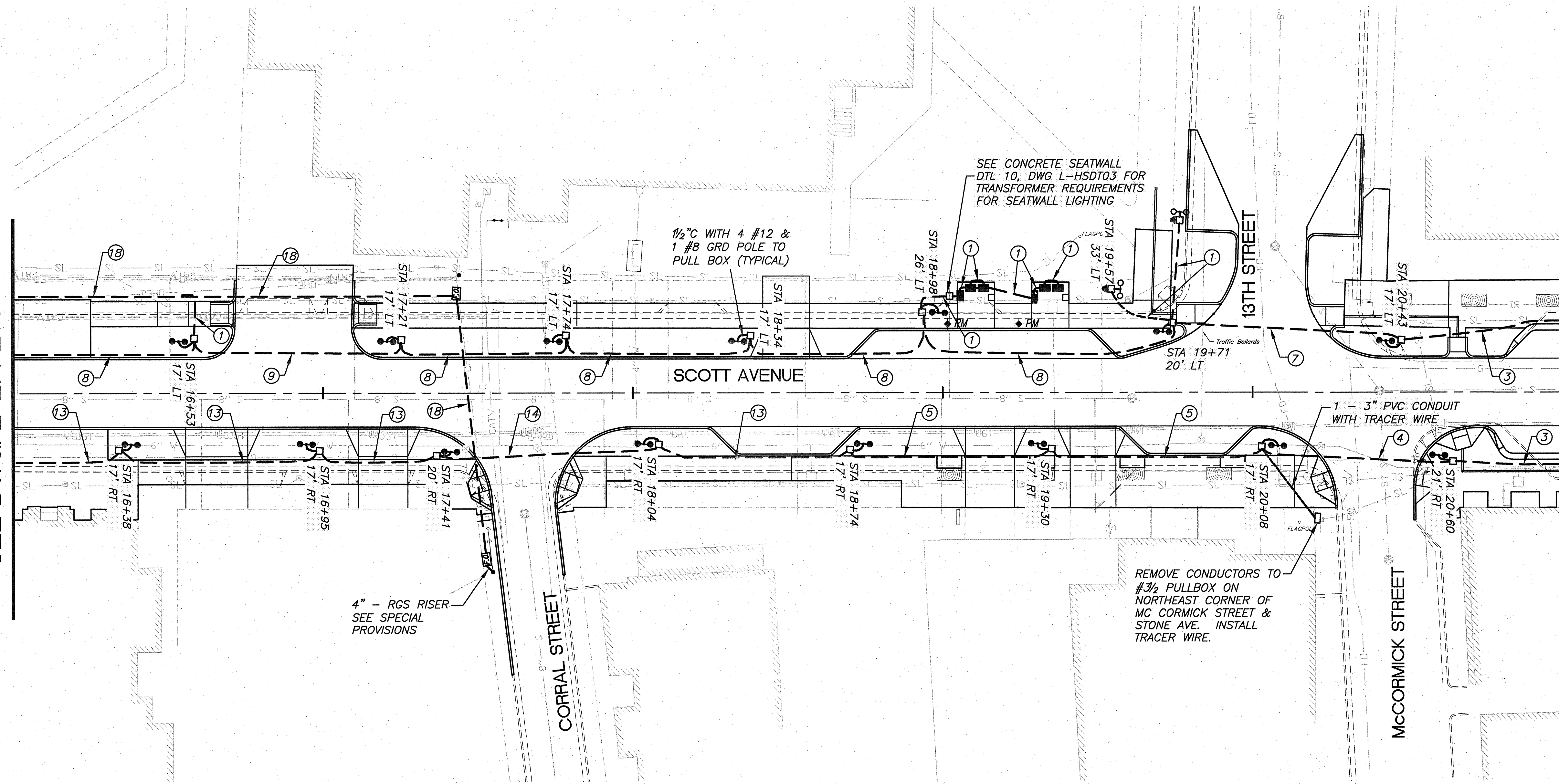
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MATCHLINE STA 16+00
SEE DWG. E-EPPL03

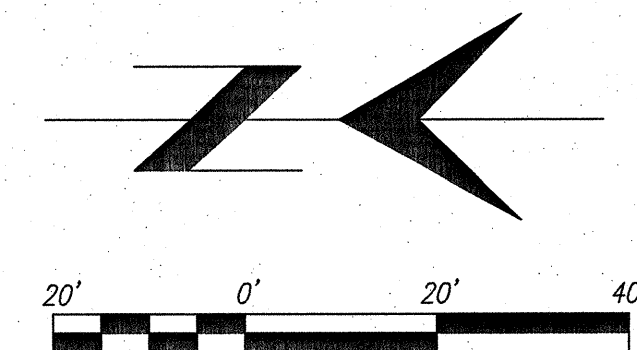
MATCHLINE STA 21+00
SEE DWG. E-EPPL05



CONDUCTOR SCHEDULE	
①	2" PVC CONDUIT WITH 2 #8 & 1 #8 GND
②	2" PVC CONDUIT WITH 2 #8 & 1 #8 GND
③	2" PVC CONDUIT WITH 2 #2 & 1 #2 GND
④	3" PVC CONDUIT WITH 2 #1/0 & 1 #1/0 GND
⑤	2" PVC CONDUIT WITH 2 #1/0 & 1 #1/0 GND
⑥	2" PVC CONDUIT WITH 2 #4 & 1 #4 GND
⑦	3" PVC CONDUIT WITH 2 #1 & 1 #1 GND
⑧	2" PVC CONDUIT WITH 2 #1, 2 #8 & 1 #1 GND
⑨	3" PVC CONDUIT WITH 2 #1, 2 #8 & 1 #1 GND

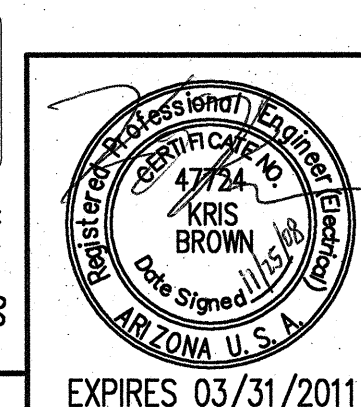
CONDUCTOR SCHEDULE	
⑩	2" PVC CONDUIT WITH 1 #6 GND
⑪	3" PVC CONDUIT WITH 2 #8 & 1 #8 GND
⑫	3" PVC CONDUIT WITH 2 #8 & 1 #8 GND
⑬	2" PVC CONDUIT WITH 2 #1/0, 2 #8 & 1 #1/0 GND
⑭	3" PVC CONDUIT WITH 2 #1/0, 2 #8 & 1 #1/0 GND
⑮	2" PVC CONDUIT WITH 2 #1/0, 2 #6 & 1 #1/0 GND
⑯	3" PVC CONDUIT WITH 2 #1/0, 2 #6 & 1 #1/0 GND
⑰	FIBER OPTICS CONDUIT- 4" PVC CONDUIT WITH 4 - 1" PVC INNERDUCTS, #10 AWG CU STRANDED GREEN CONDUCTOR & 1250# MULETAPE

- ⚡ GROUND ROD
- ☐ #7 PULLBOX
- PROPOSED LIGHT
- ☐ #5 PULLBOX
- ARMORY PARK 2 GLOBE DECORATIVE LIGHT
- F.O. 30"x48" PENCELL PULLBOX (PEM-3048-PCH-COM) SEE SPECIAL PROVISIONS
- SEAT WALL LIGHTS



LIGHTING PLANS

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



**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT**

30 OF 71

	DRWN. BY	V. HO	REF. E-EPPL04	SCALE: 1"=20'
	DSGN. BY	E. KESSLER		
	CHKD. BY	A. BATT		
			PLAN NO.	I-2008-027

NO.	DATE	REVISION	BY	CHKD.	APPR.

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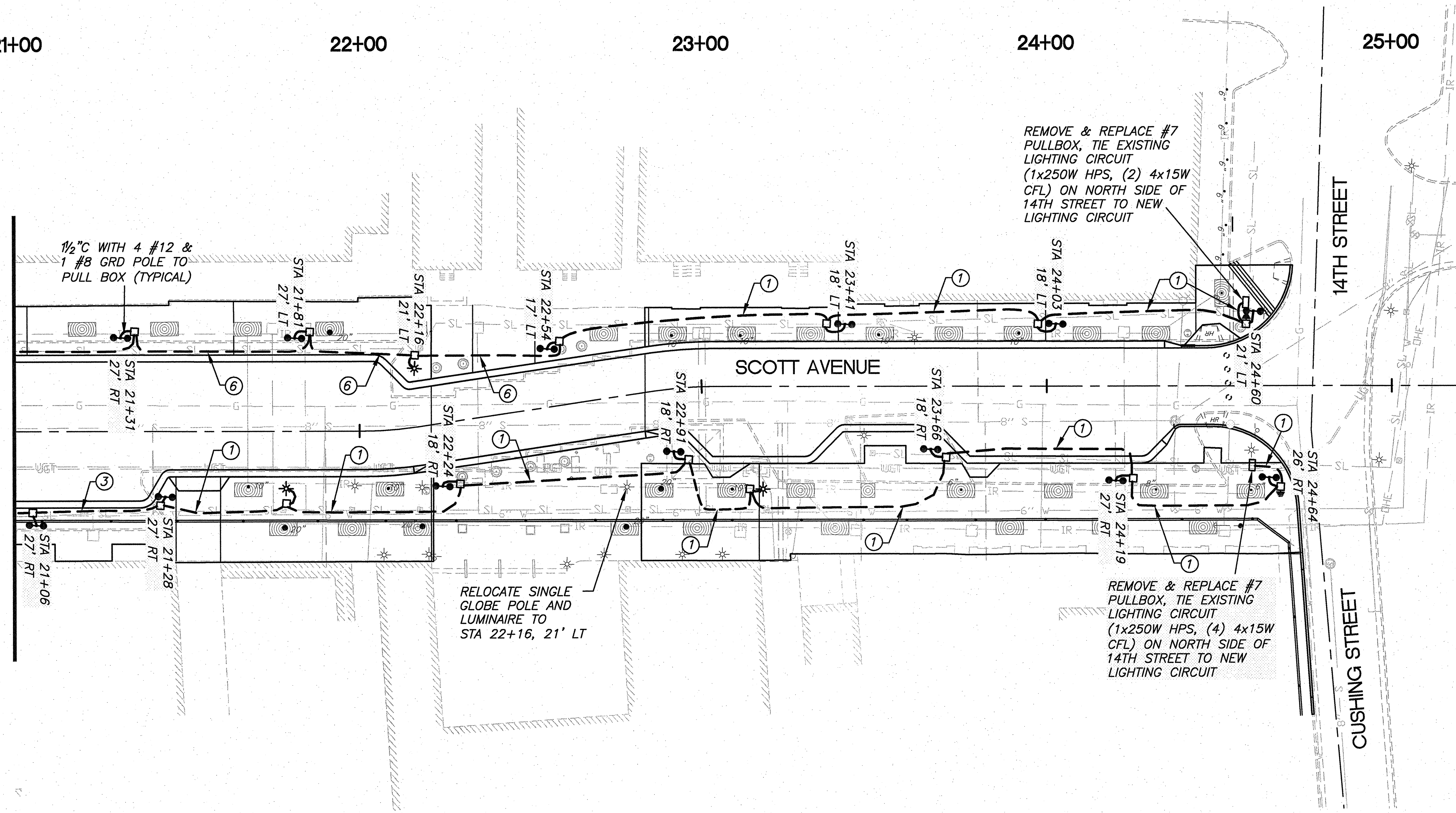
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MATCHLINE STA 21+00
SEE DWG. E-EPPL04



REMOVE & REPLACE #7
PULLBOX, TIE EXISTING
LIGHTING CIRCUIT
(1x250W HPS, (2) 4x15W
CFL) ON NORTH SIDE OF
14TH STREET TO NEW
LIGHTING CIRCUIT

1/2" C WITH 4 #12 &
1 #8 GRD POLE TO
PULL BOX (TYPICAL)

RELOCATE SINGLE
GLOBE POLE AND
LUMINAIRE TO
STA 22+16, 21' LT

REMOVE & REPLACE #7
PULLBOX, TIE EXISTING
LIGHTING CIRCUIT
(1x250W HPS, (4) 4x15W
CFL) ON NORTH SIDE OF
14TH STREET TO NEW
LIGHTING CIRCUIT

LOAD CALCULATION

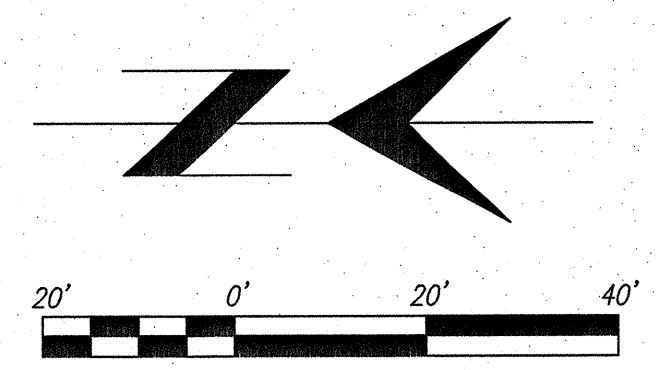
CIRCUIT #	DESCRIPTION	LOAD (KVA)
1,3	NE LIGHTS	9.4
2,4	SE LIGHTS	5.3
5,7	NW LIGHTS	9.5
6,8	SW LIGHTS	7.6
CONNECTED LOAD		31.8
+25% PER NEC		8.0
CODE LOAD		39.8
TOTAL CURRENT @480V 1φ =		82.9A

SEE SINGLE LINE DIAGRAM ON
STD DTL T325

CONDUCTOR SCHEDULE	
①	2" PVC CONDUIT WITH 2 #8 & 1 #8 GND
③	2" PVC CONDUIT WITH 2 #2 & 1 #2 GND
④	3" PVC CONDUIT WITH 2 #1/0 & 1 #1/0 GND
⑤	2" PVC CONDUIT WITH 2 #1/0 & 1 #1/0 GND
⑥	2" PVC CONDUIT WITH 2 #4 & 1 #4 GND
⑦	3" PVC CONDUIT WITH 2 #1 & 1 #1 GND
⑧	2" PVC CONDUIT WITH 2 #1, 2 #8 & 1 #1 GND
⑨	3" PVC CONDUIT WITH 2 #1, 2 #8 & 1 #1 GND

CONDUCTOR SCHEDULE	
⑩	2" PVC CONDUIT WITH 1 #6 GND
⑪	3" PVC CONDUIT WITH 2 #8 & 1 #8 GND
⑬	2" PVC CONDUIT WITH 2 #1/0, 2 #8 & 1 #1/0 GND
⑭	3" PVC CONDUIT WITH 2 #1/0, 2 #8 & 1 #1/0 GND
⑯	2" PVC CONDUIT WITH 2 #1/0, 2 #6 & 1 #1/0 GND
⑰	3" PVC CONDUIT WITH 2 #1/0, 2 #6 & 1 #1/0 GND

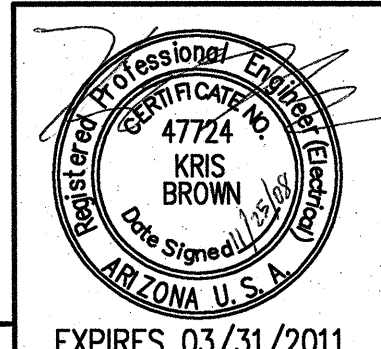
- ⊕ GROUND ROD
- PROPOSED LIGHT
- #5 PULLBOX
- #7 PULLBOX
- ☼ REFURBISHED SINGLE GLOBE LIGHT



LIGHTING PLANS

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

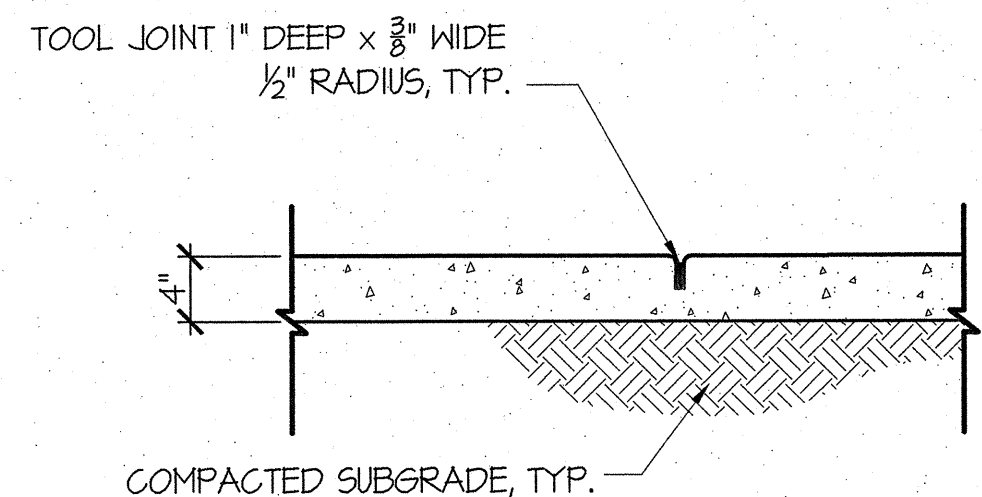
USE OF THE INFORMATION CONTAINED IN
THIS INSTRUMENT FOR OTHER THAN THE
SPECIFIC PURPOSE FOR WHICH IT WAS
ISSUED AND FOR OTHER THAN THE CLIENT
FOR WHOM IT WAS PREPARED IS FORBIDDEN
UNLESS EXPRESSLY PERMITTED IN WRITING IN
ADVANCE BY STANTEC CONSULTING AND
STANTEC CONSULTING SHALL HAVE NO
LIABILITY TO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



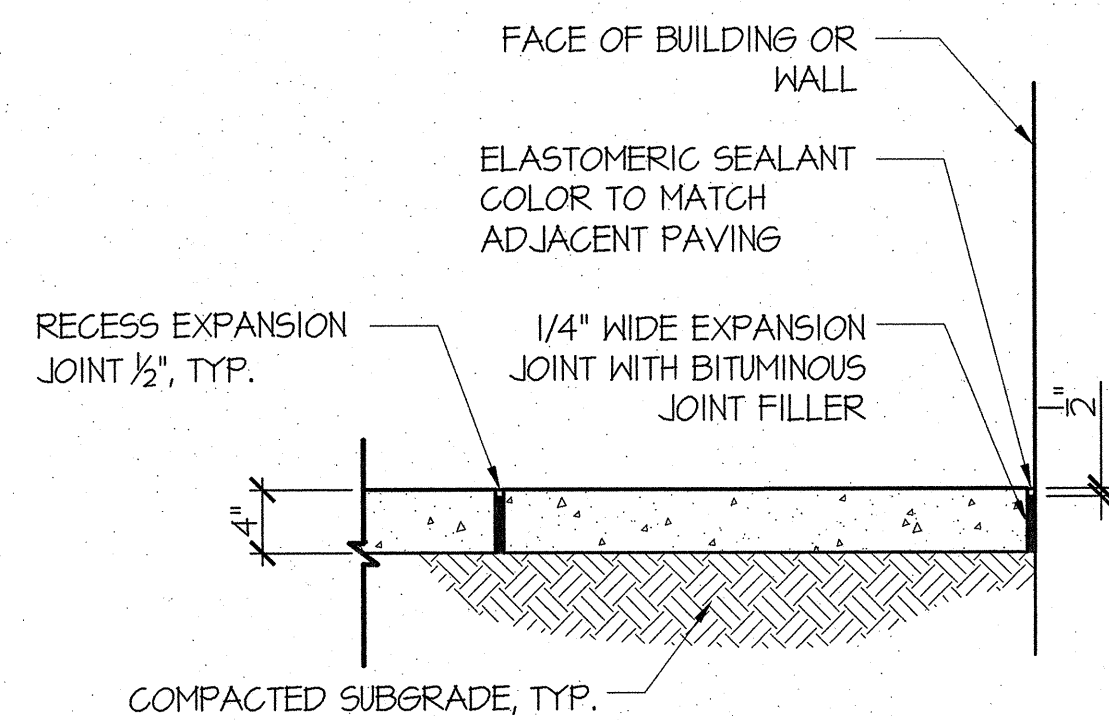
CITY OF TUCSON		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		31 OF 71
DRWN. BY	V. HO	REF.	E-EPPL05	SCALE: 1"=20'
DSGN. BY	E. KESSLER	PLAN NO.	I-2008-027	
CHKD. BY	A. BAIT			

NO.	DATE	REVISION	BY	CHKD.	APPR.

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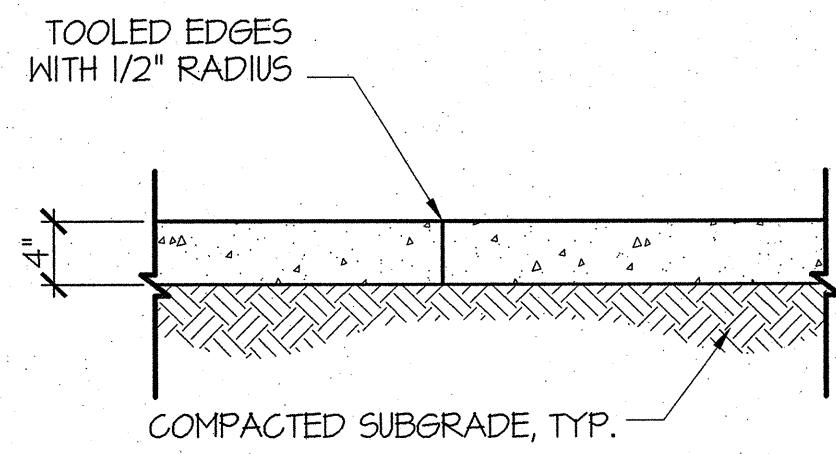


CONTROL JOINT



EXPANSION JOINT

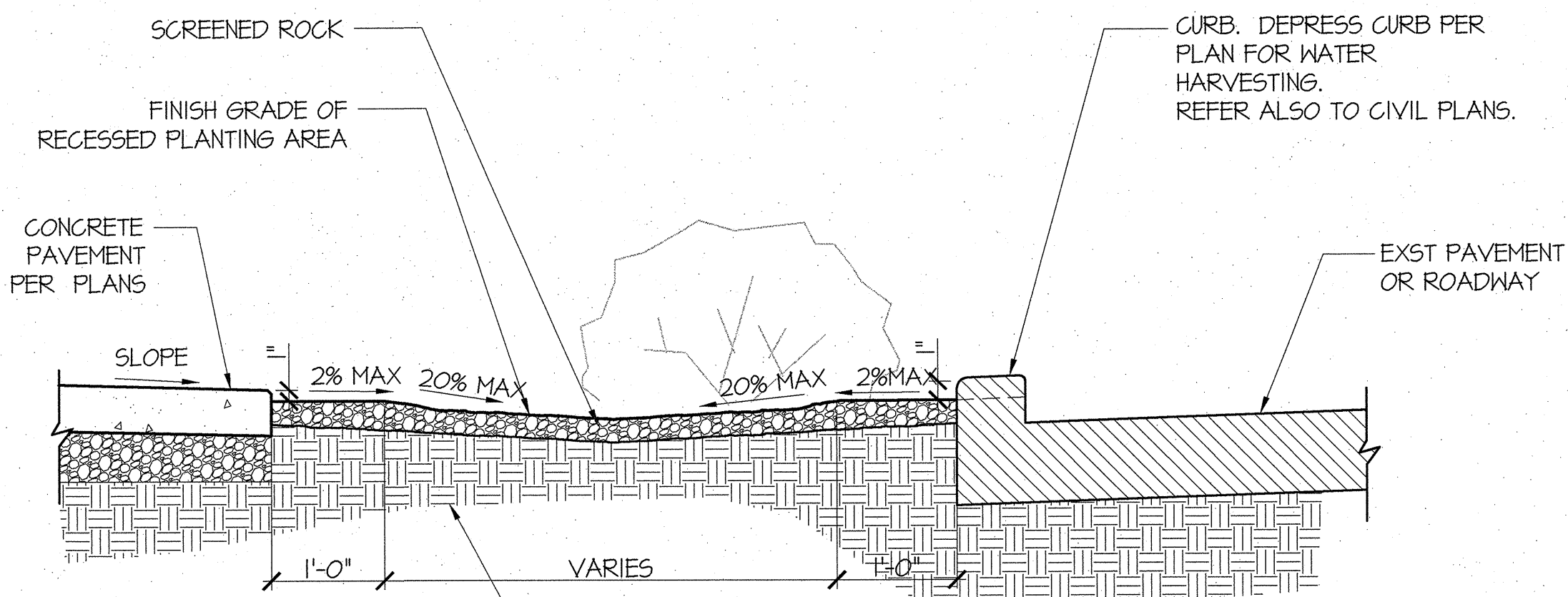
- NOTES:**
1. Refer to PC/COT Std. Detail 200 for sidewalk construction.
 2. Refer to PCCP Joint Plans.
 3. Refer to hardscape drawings for sidewalk pavement joint locations.
 4. Refer to specifications for color and finish of concrete.
 5. All concrete walks shall have a minimum cross slope of 1/8"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



CONSTRUCTION JOINT (COLD JOINT)

1 CONCRETE PAVEMENT JOINTS

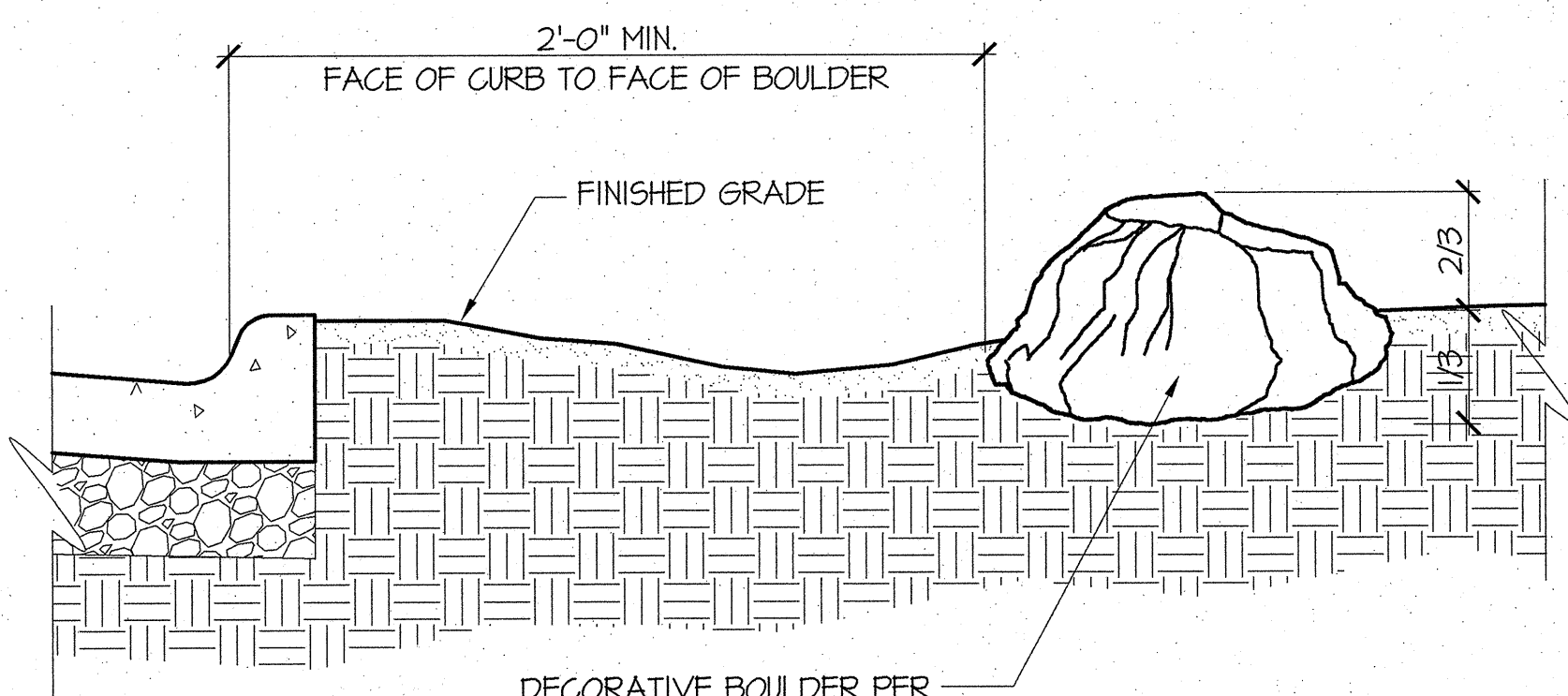
1"=1'-0"



2 RECESSED PLANTING AREA AT SIDEWALK/CURB

- NOTES:**
1. Refer to specifications for screened rock color, size and installation.
 2. Depth of planting area is dependent on avail. width of planting area.
 3. Recessed planting areas shall be located where microbasins are not shown.
 4. Recessed planting area shall be located 10'-0" min. away from face of building.
 5. Amend all soil in planting areas. Refer to specs.

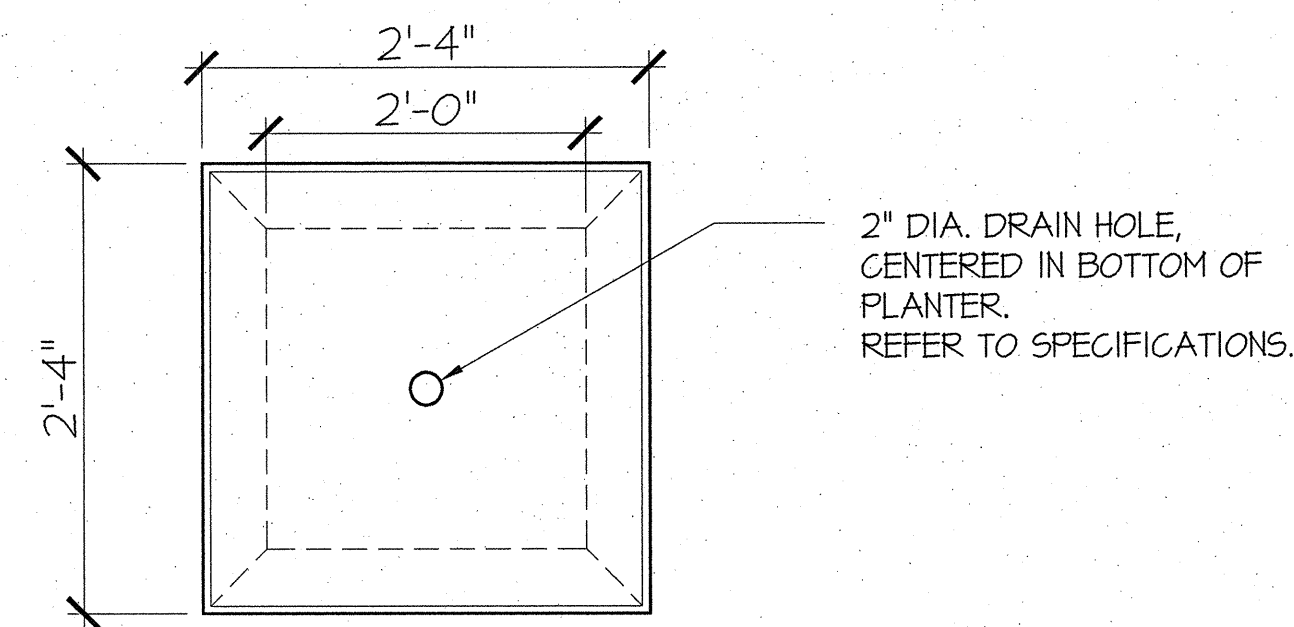
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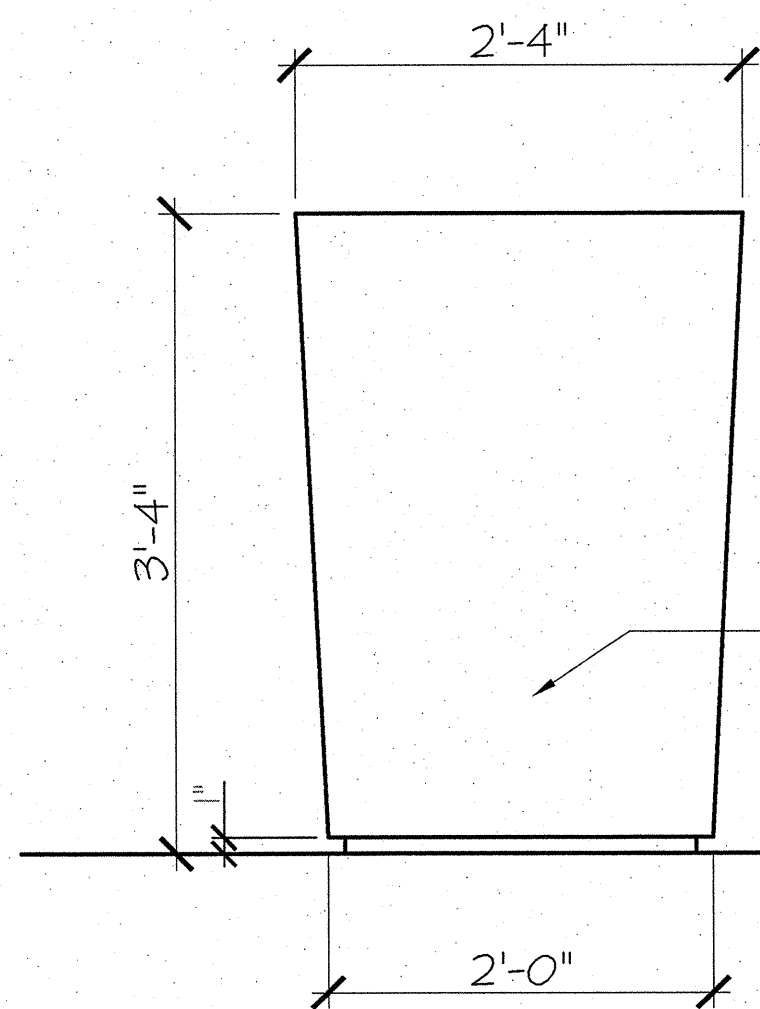
- NOTE:**
1. Boulder to be set with minimum 1/3 mass below Finished Grade.
 2. All boulders to be from surface locations, with weathered surface exposed.
 3. 36" Max. Boulder size. Refer to Specifications.

3 BOULDER AT CURB

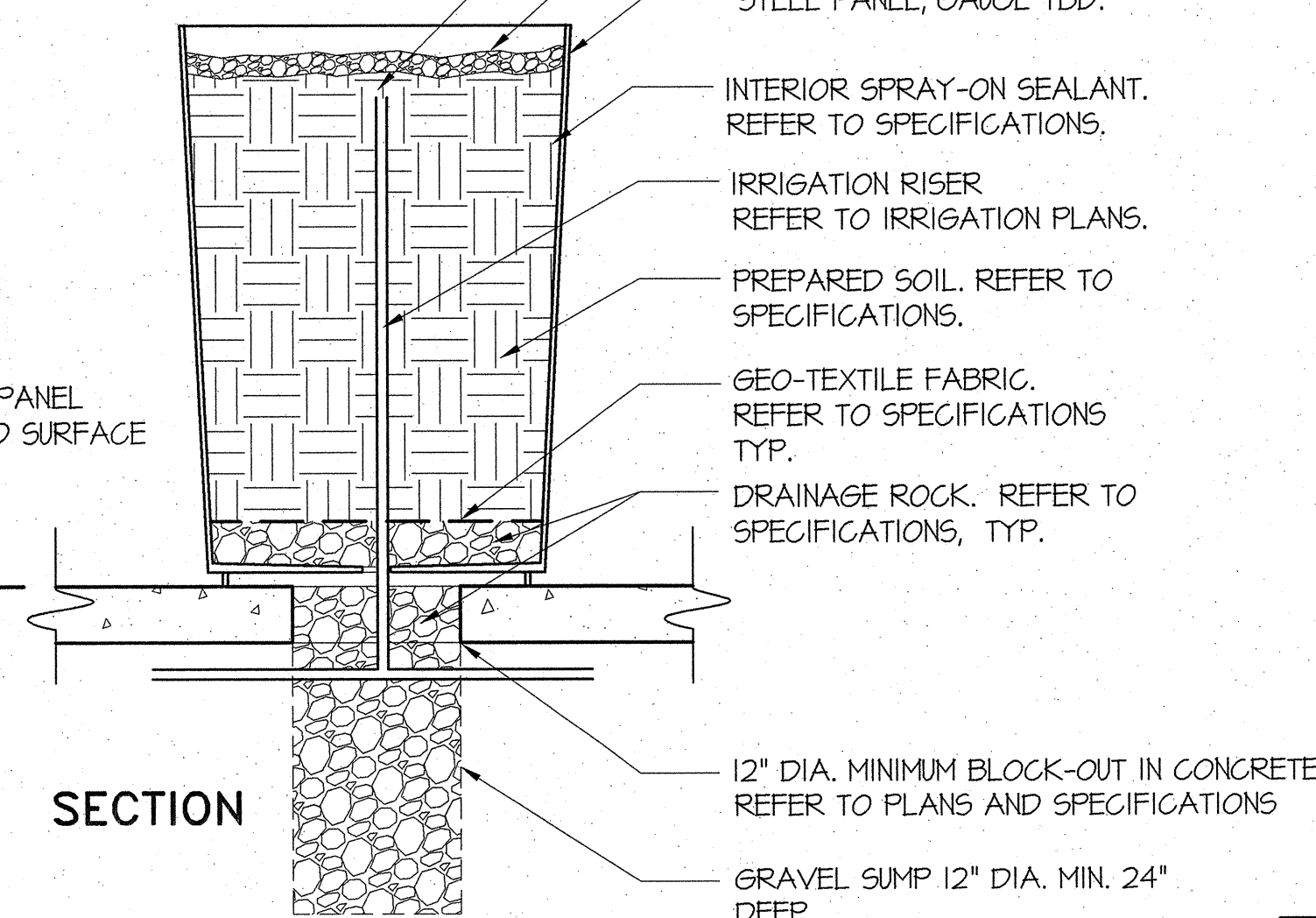
3/4"=1'-0"



PLAN VIEW



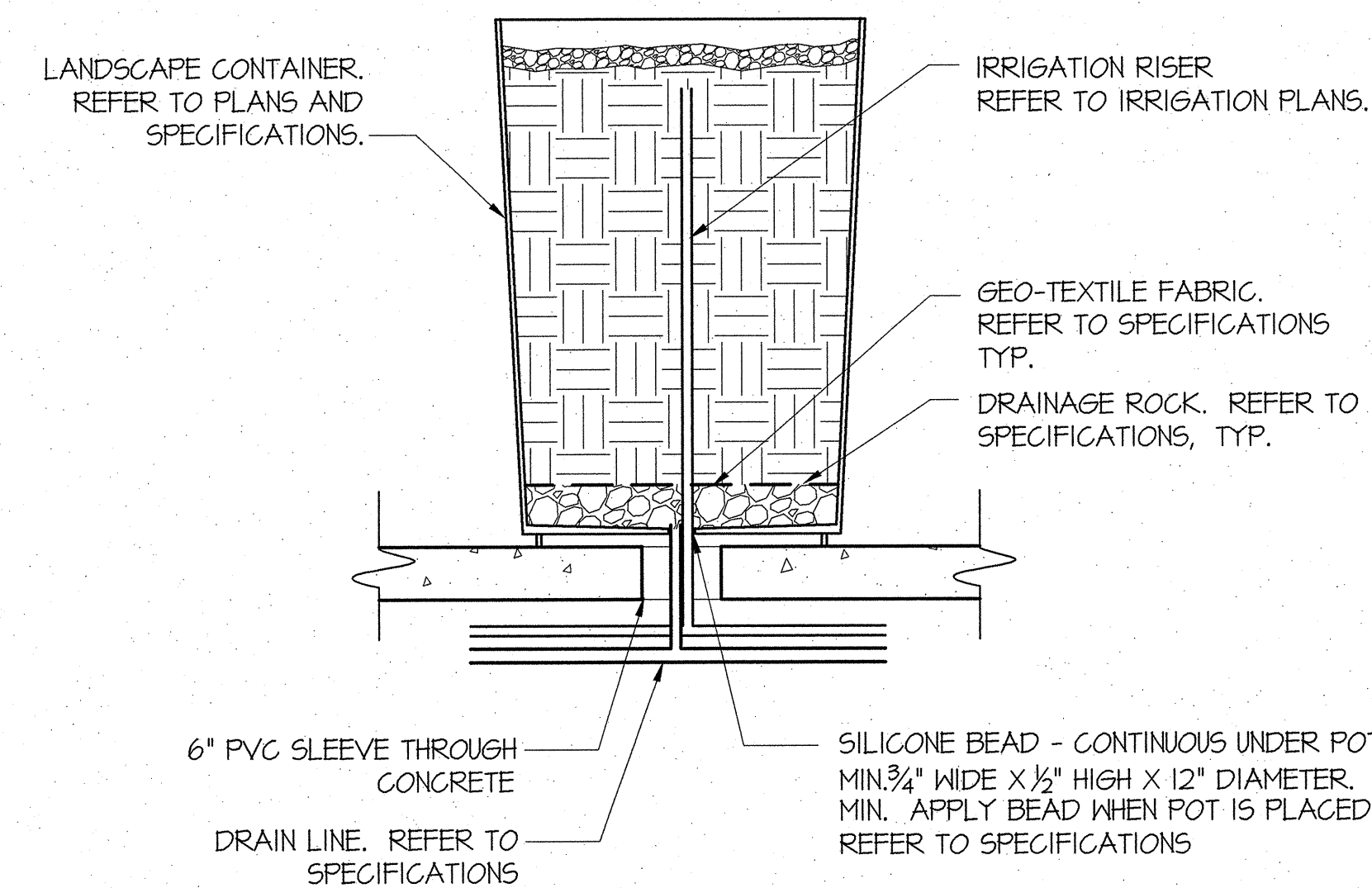
ELEVATION



SECTION

4 STEEL PLANTER

1"=1'-0"



NOTE: PROVIDE SUMP DRAINAGE WHERE SPACE PERMITS. REFER TO DETAIL 4, SHEET L-HSDT01

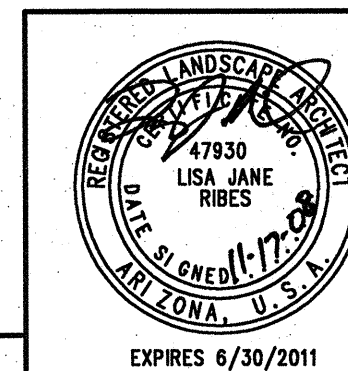
5 PLANTER DRAINAGE

1"=1'-0"

HARDSCAPE DETAIL SHEET

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

32 OF 71

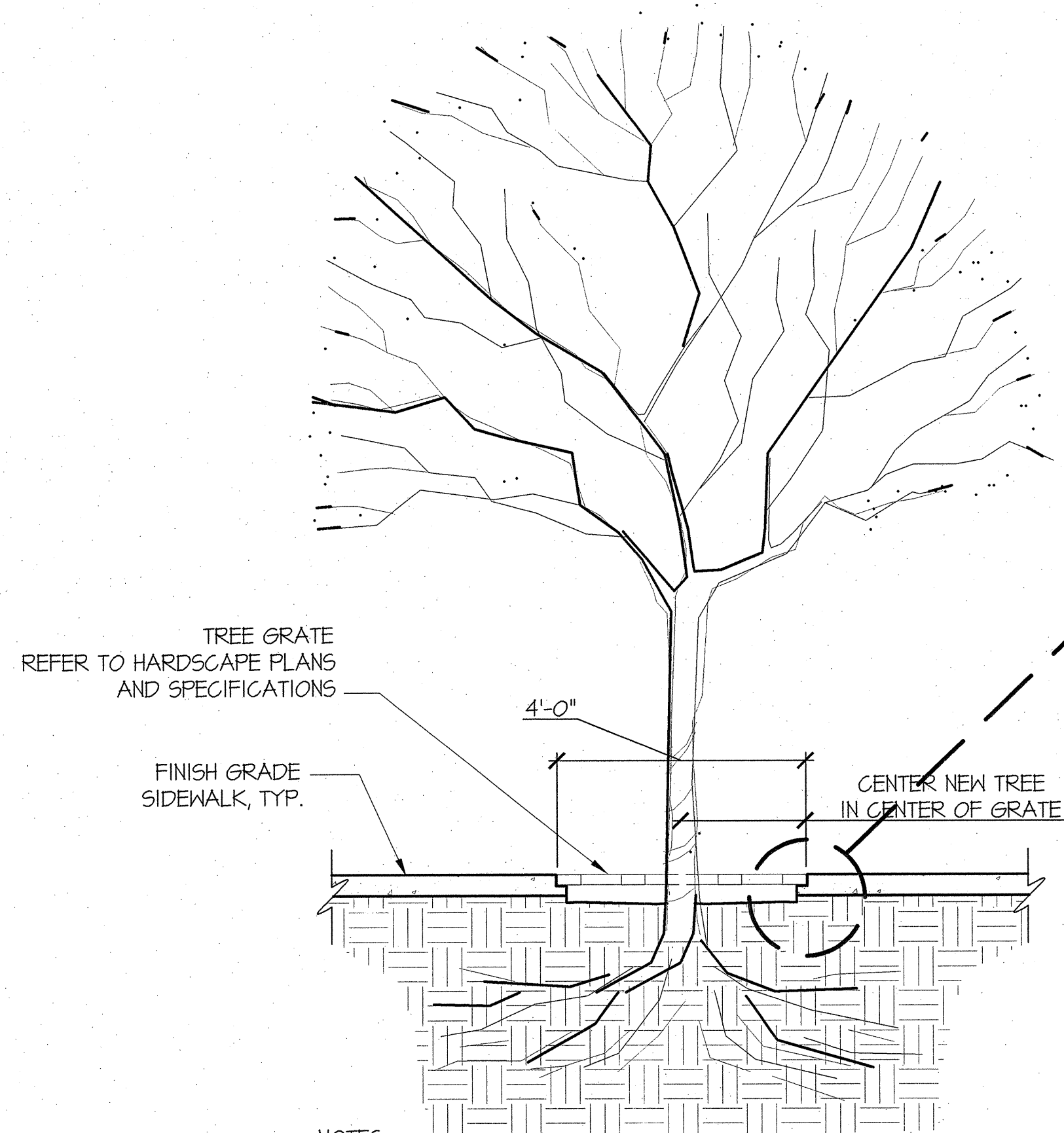


DRWN. BY H. FLUGSTAD
DSGN. BY L. RIBES, H.F., C.M., C.C.
CHKD. BY L. RIBES

REF. L-HSDT01 SCALE:
PLAN NO. I-2008-027

NO.	DATE	REVISION	BY	CHKD.	APPR.

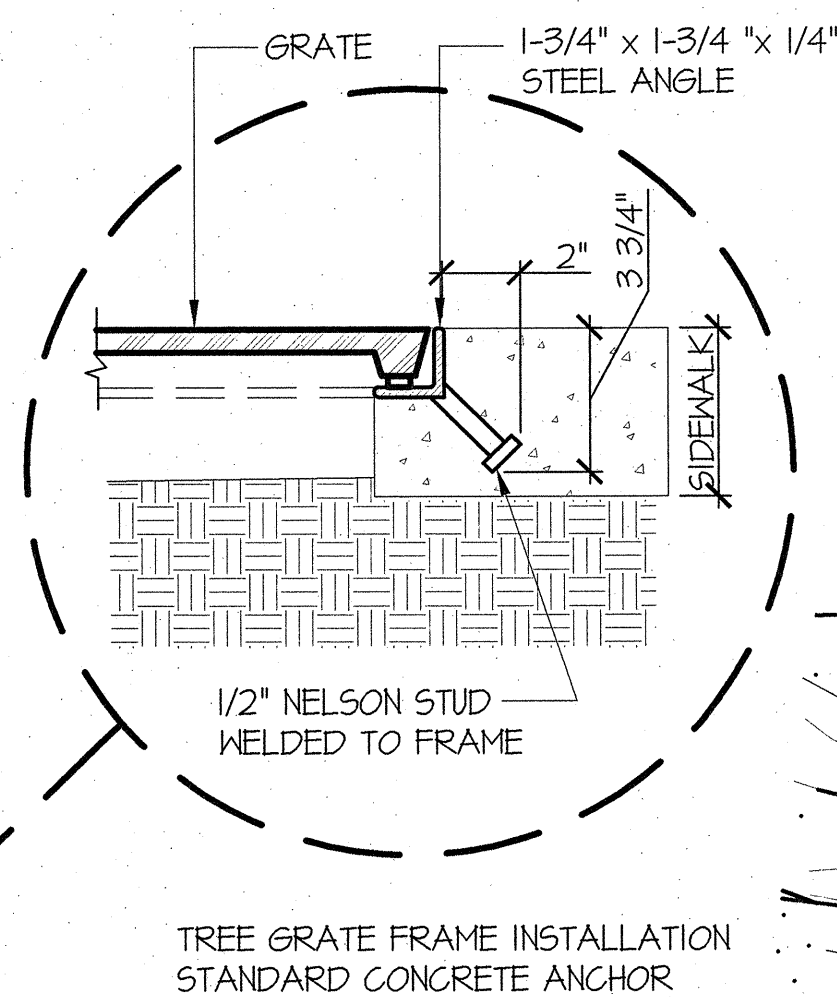
14-CV-02401 Drawing 6 SSV-HSDT01.dwg
 17/11/2008 03:15 PM
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 L. Ribes



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-H5PL05 for Station and Offset locations.
5. Refer to Hardscape Details for Tree Grate Installation.
6. Install per Manufacturer's instructions.

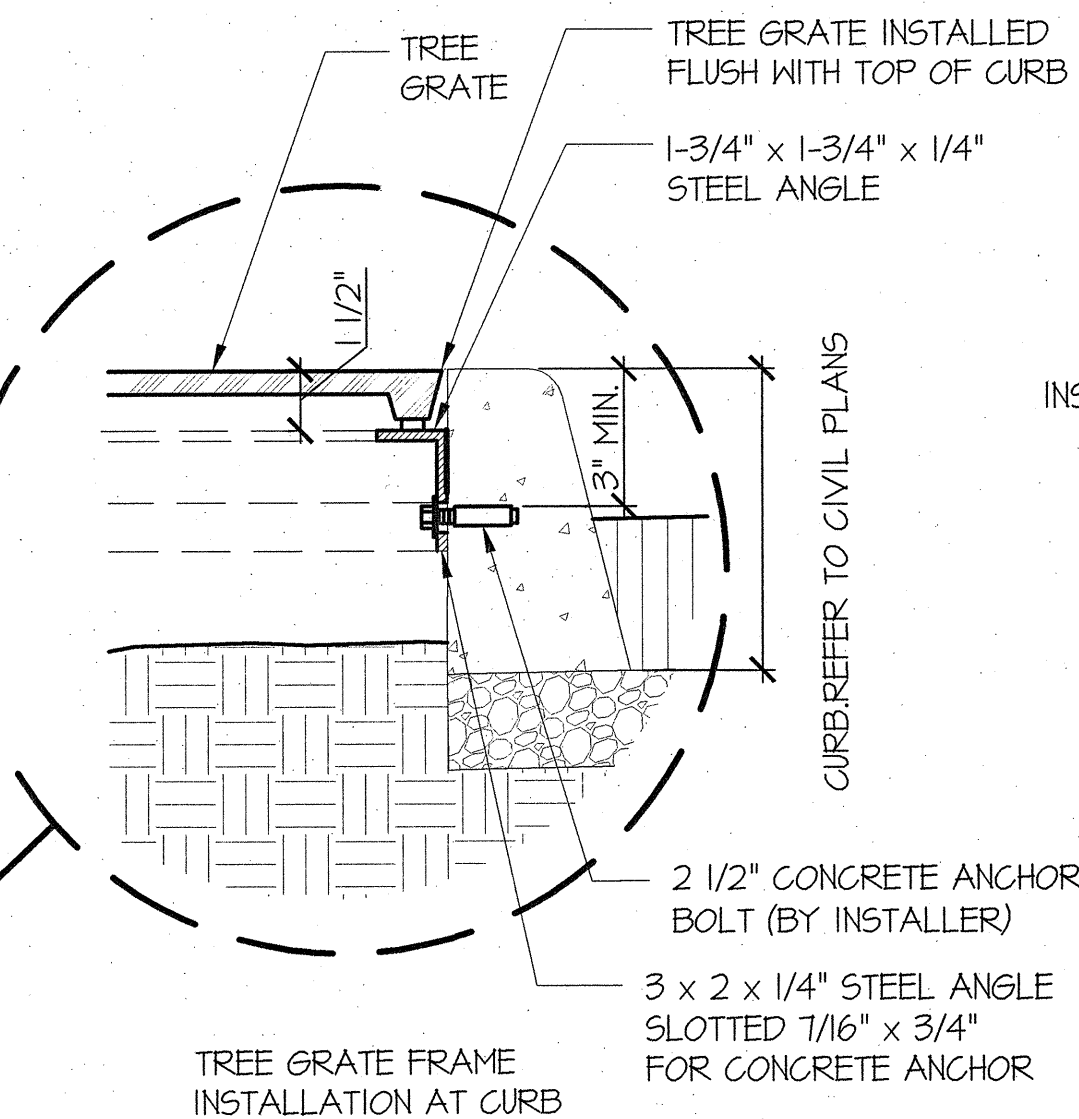
11 TREE GRATE INSTALLATION
1/2"=1'-0"



NOTES:

1. Refer to Civil Plans for elevations and grades.
2. Tree Grate to be flush with sidewalk.

12 TREE GRATE INSTALLATION AT CURB
1/2"=1'-0"



STEEL INVERTED U-SHAPE BICYCLE RACK. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

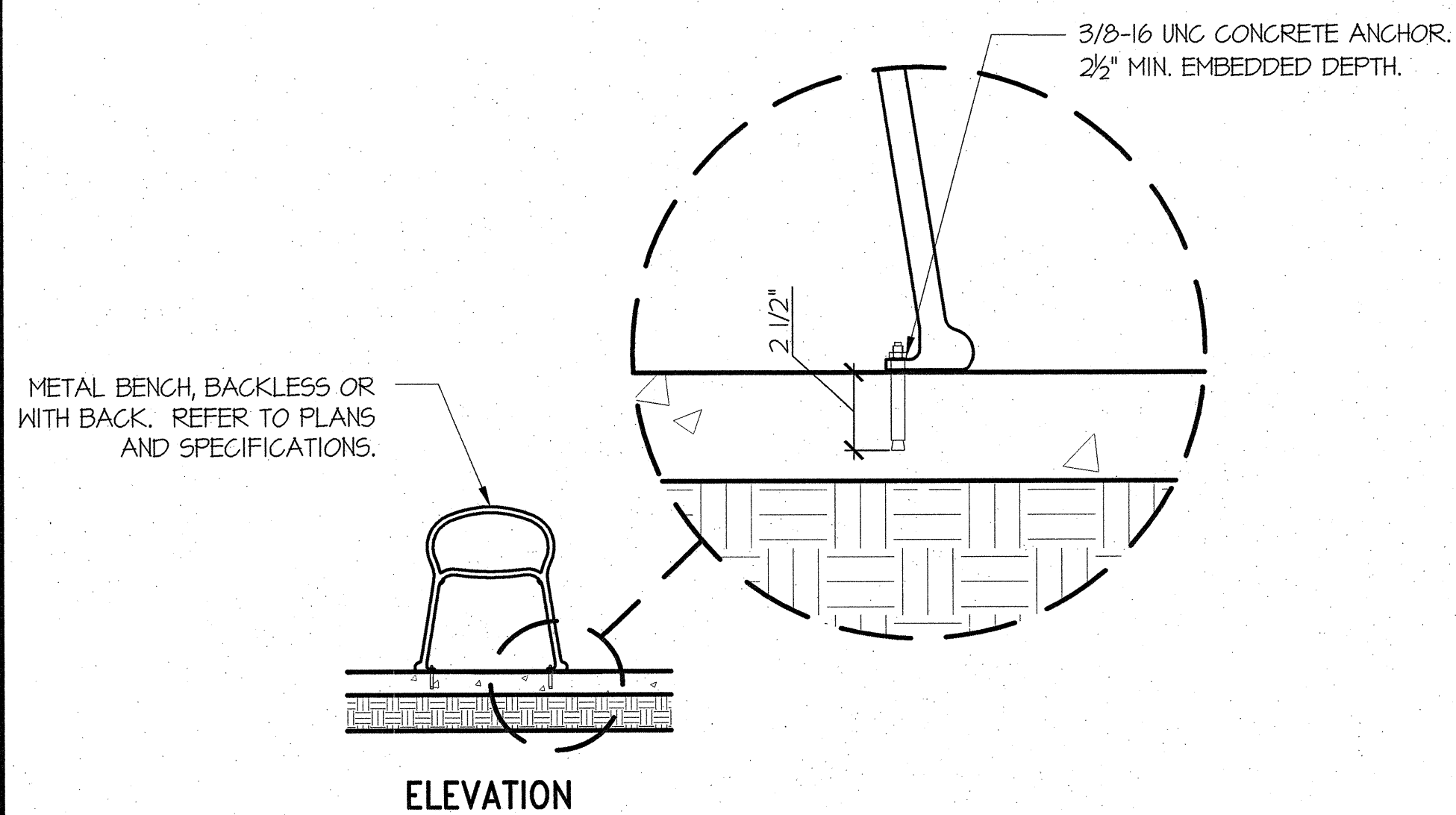
FINISHED GRADE OF PAVING OR SCREENED ROCK. REFER TO HARDSCAPE PLANS.

ANCHOR BOLTS INTO CONCRETE FOOTING, PER MANUFACTURER.

NOTES:

1. Powder Coat finish; Refer to Specifications.
2. Anchoring hardware shall be stainless steel.
3. Refer to Hardscape Plans for locations.

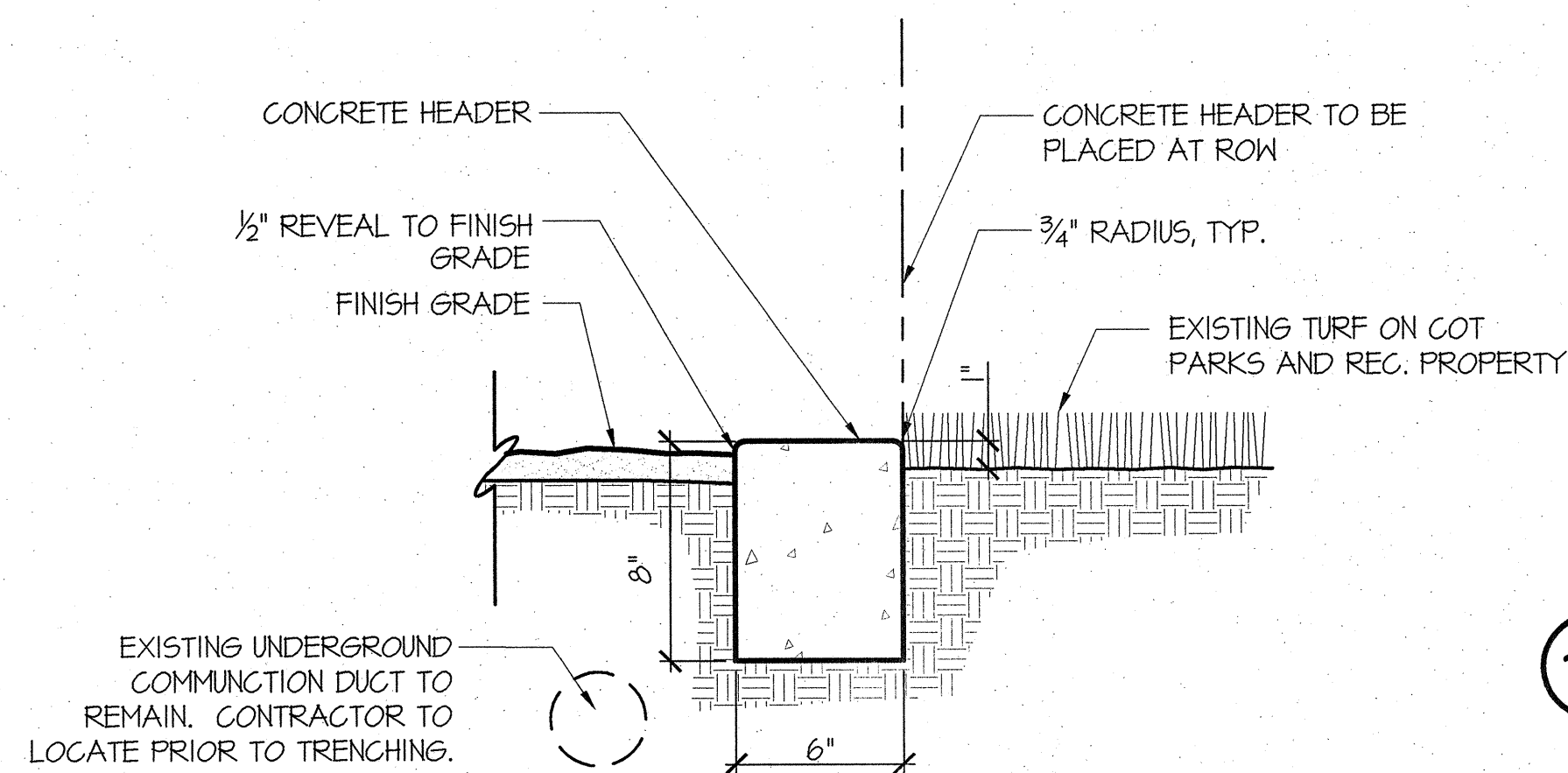
13 BICYCLE RACK
1/2"=1'-0"



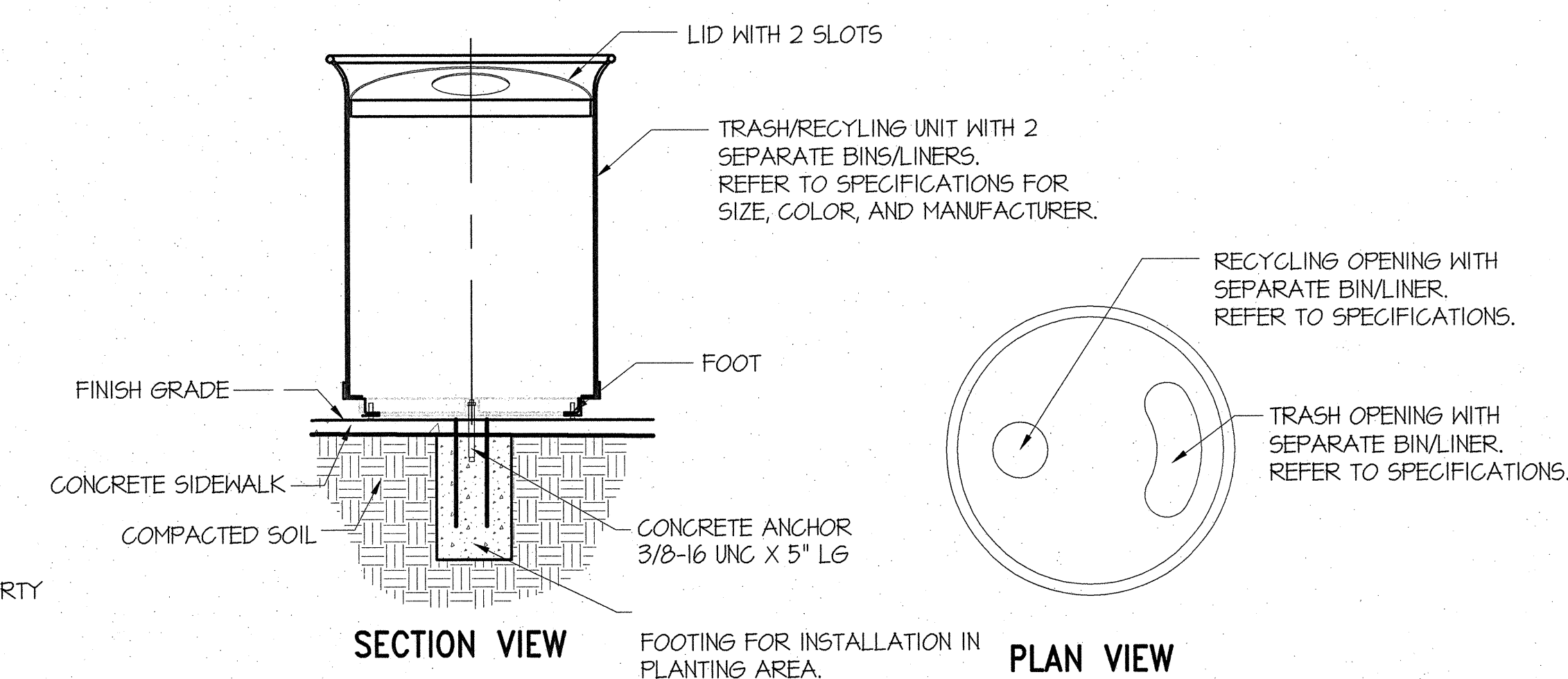
NOTE:

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

14 METAL BENCH, EMBED MOUNT
1/2"=1'-0"



15 CONCRETE HEADER INSTALLATION AT EXISTING TURF
N.T.S.



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

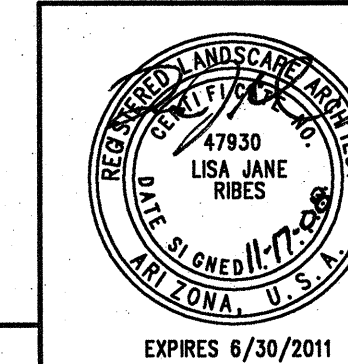
NOTES:

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

HARDSCAPE DETAIL SHEET

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

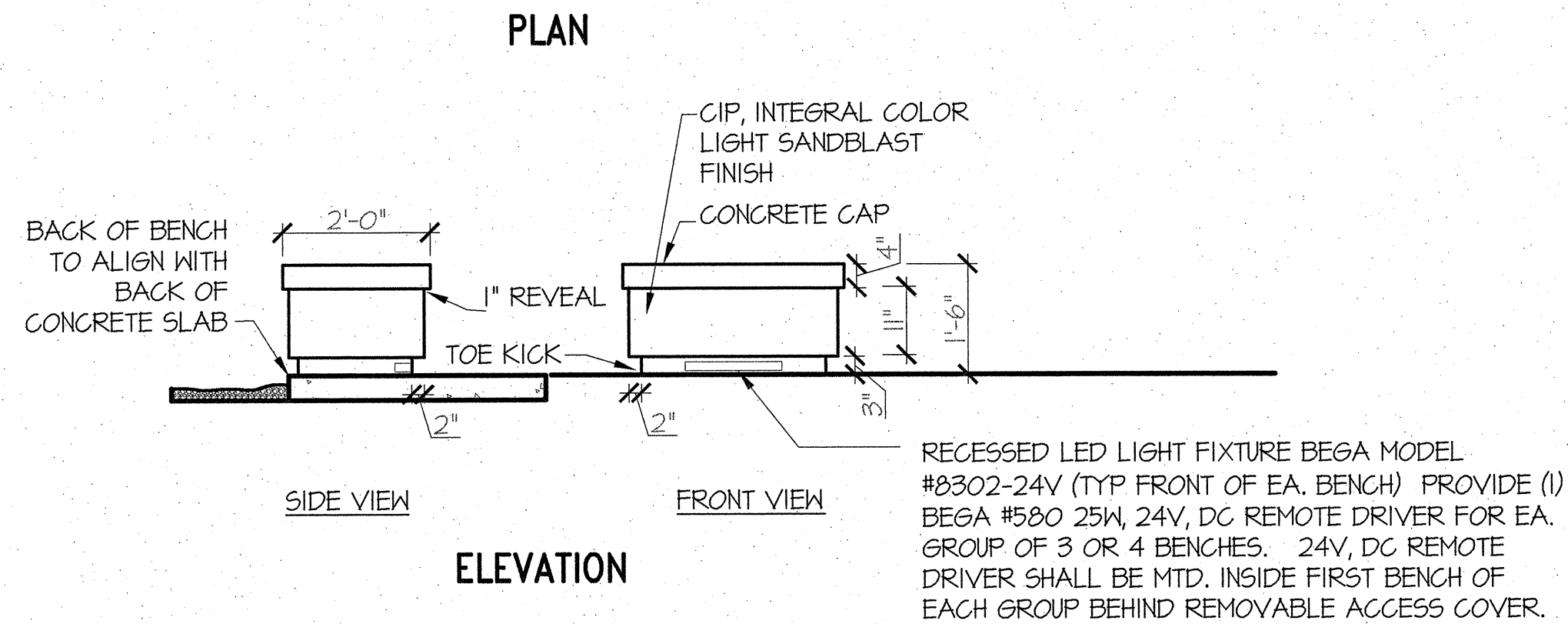
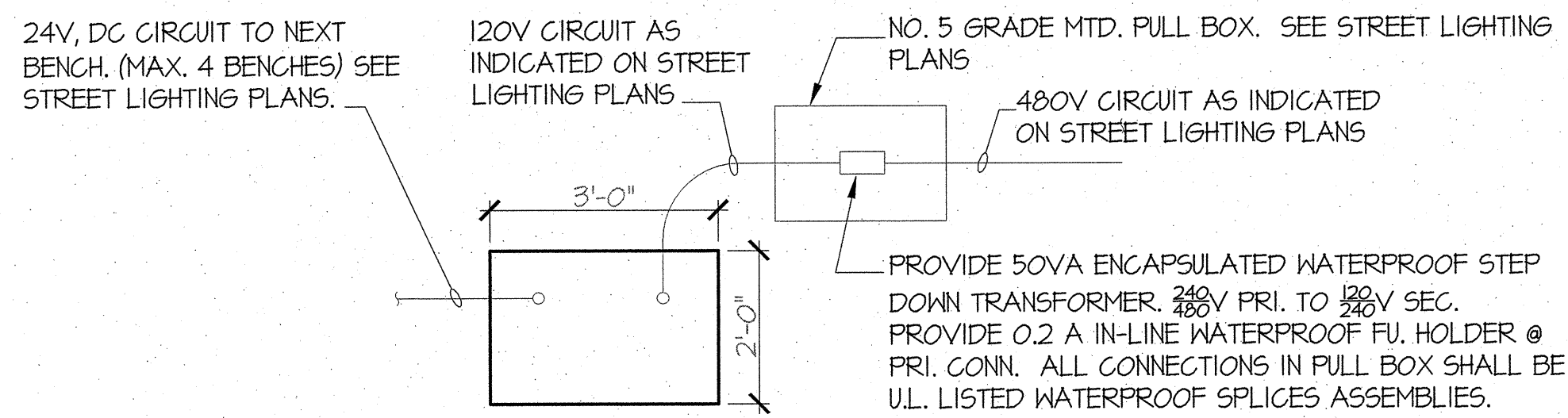
34 OF 71



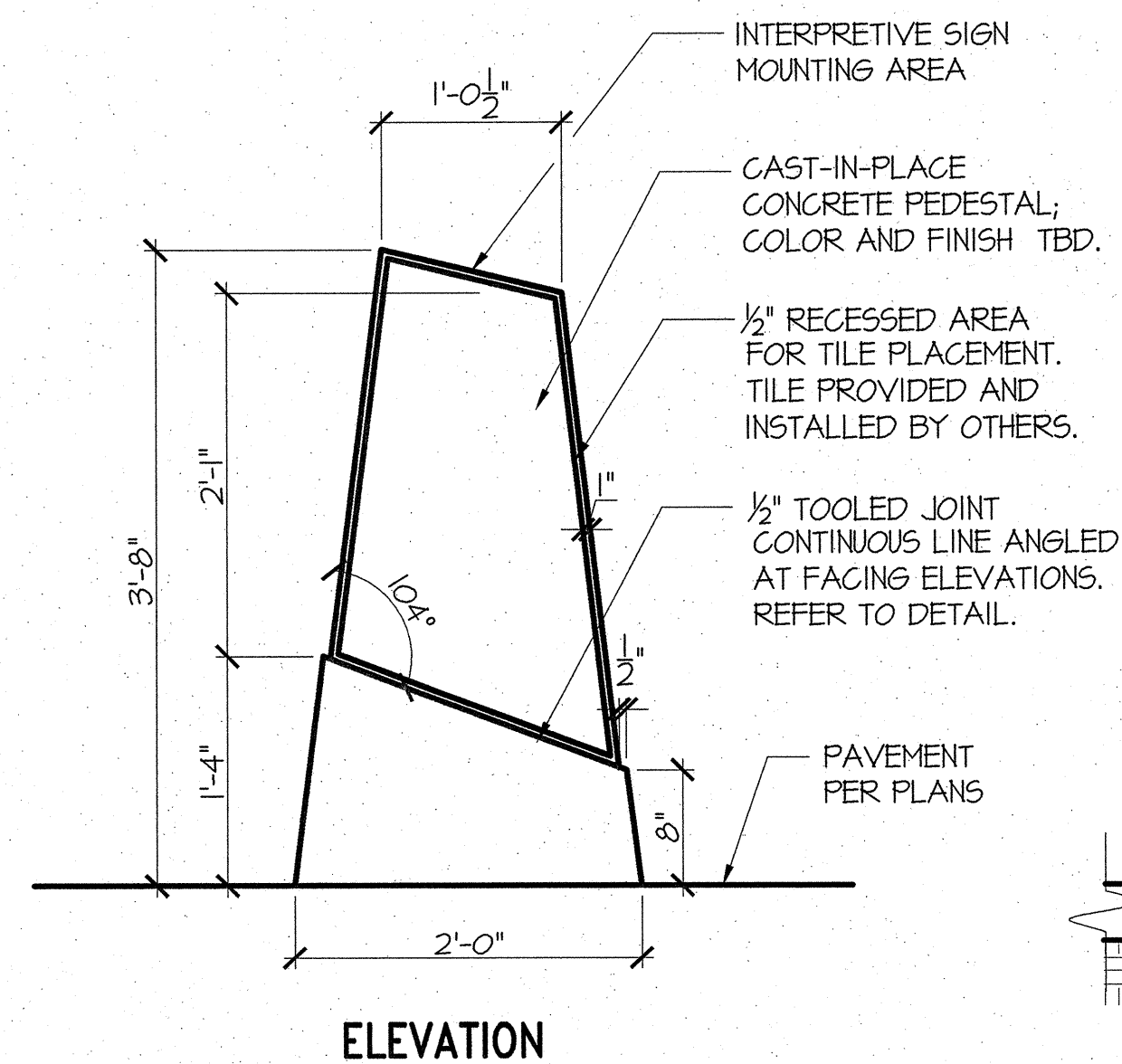
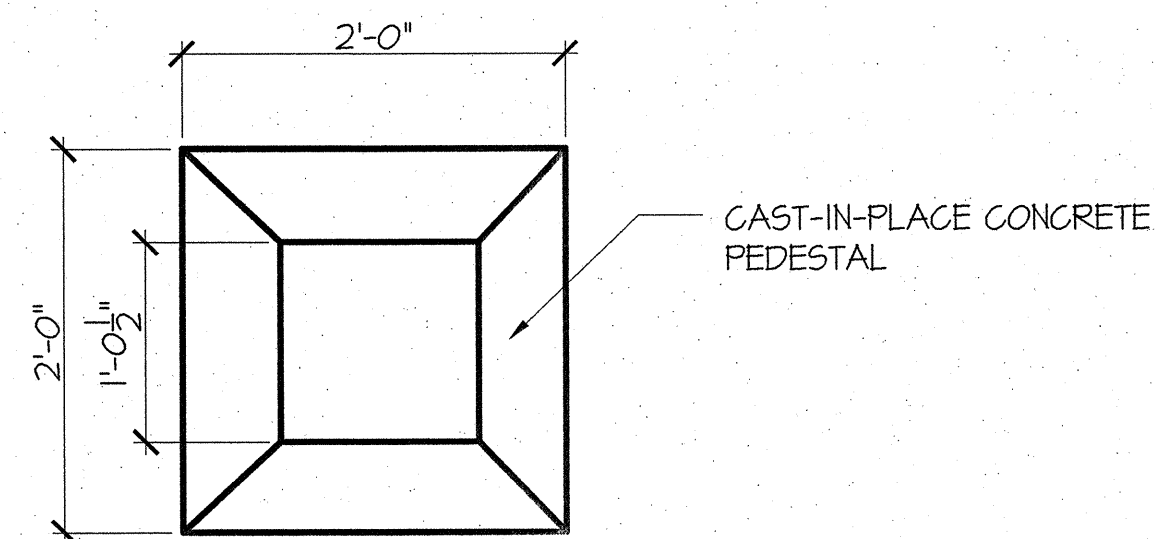
DRWN. BY H. FLUGSTAD
DSGN. BY L. RIBES, H.F., C.M., C.C.
CHKD. BY L. RIBES

REF. L-HSDT03 SCALE:
PLAN NO. I-2008-027

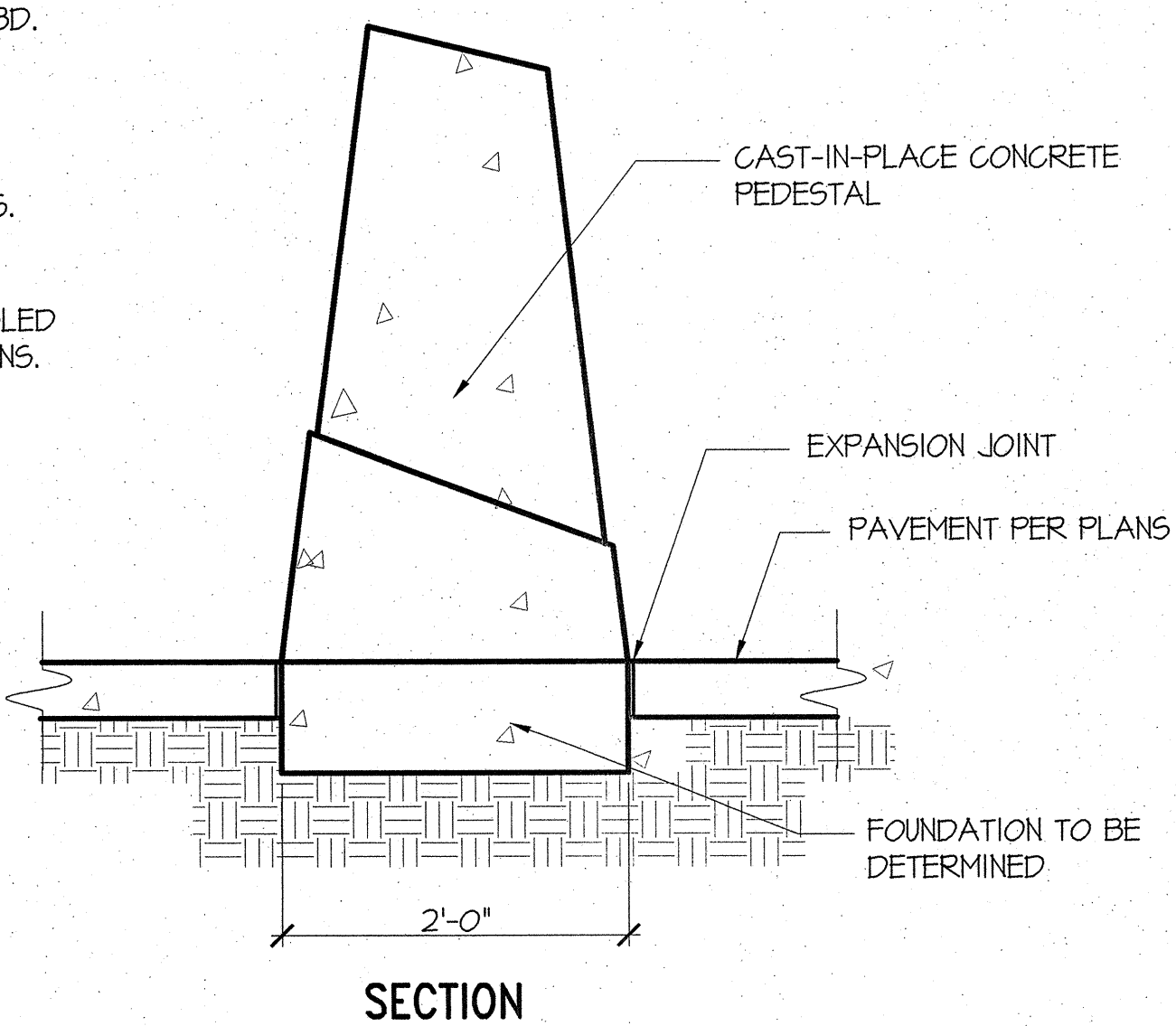
NO.	DATE	REVISION	BY	CHKD.	APPR.



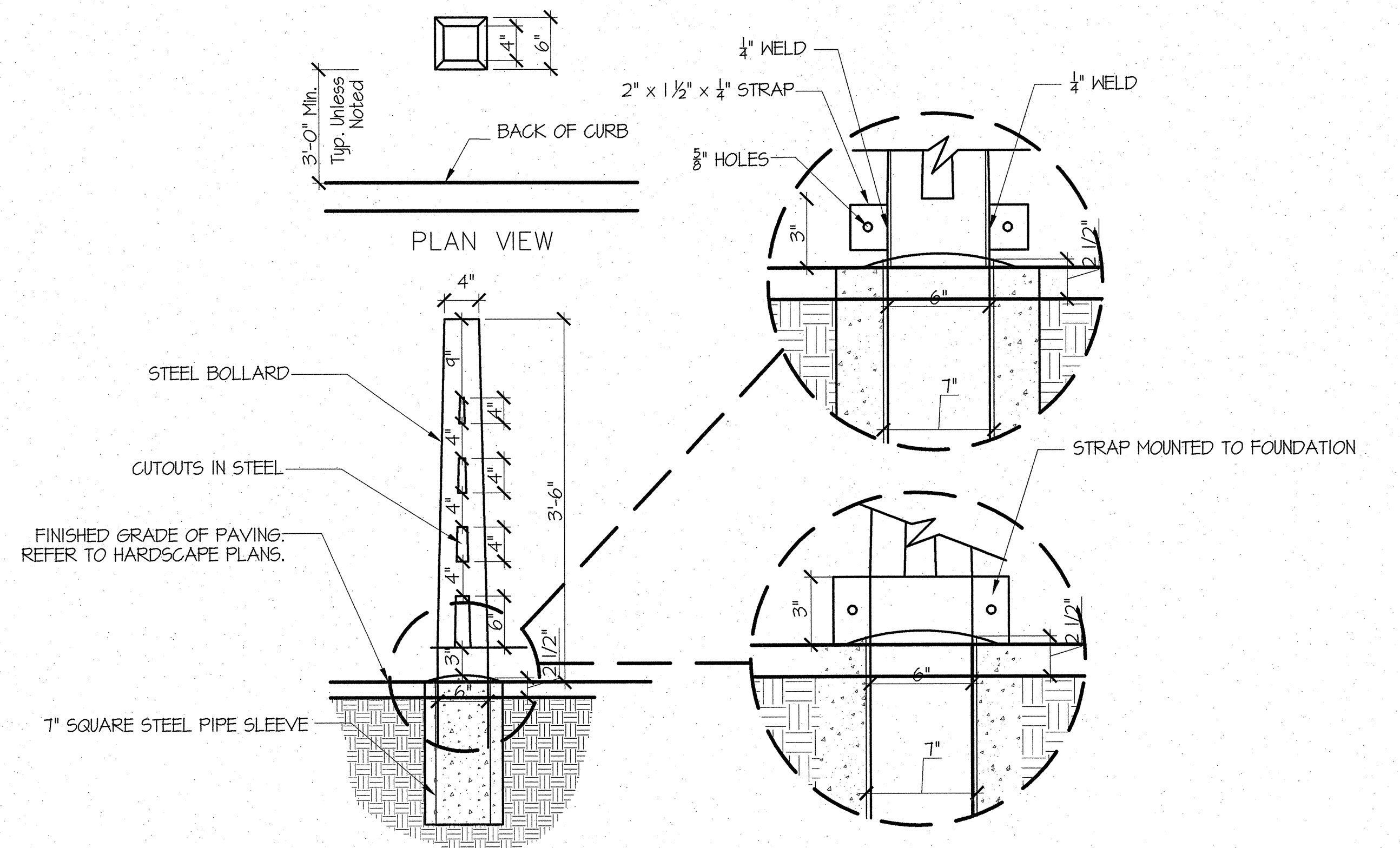
23 CONCRETE SEATWALL 1/2"=1'-0"



25 INTERPRETIVE SIGNAGE PEDESTAL 1"=1'-0"



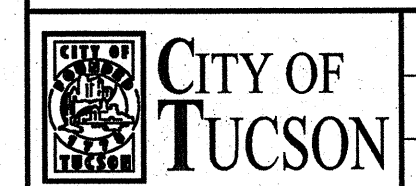
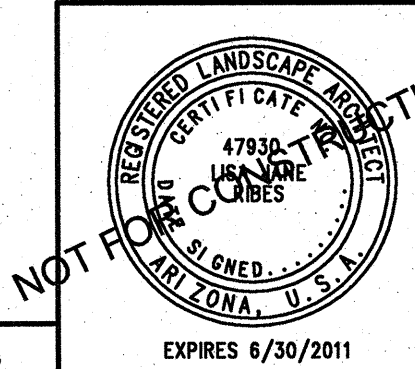
24 REMOVABLE BOLLARD 1/2"=1'-0"



- NOTES:
1. Powder Coat finish; Refer to Specifications.
 2. Anchoring hardware to be stainless steel.
 3. Refer to Hardscape Plans for locations.
 4. Refer to COT Standard Detail 106 and 107 for mounting and installation details.
 5. Removable post barricade shall not be concrete filled.
 6. Hand tighten bolt & nut using washers each side of straps. Cut bolt approx. 1/8" from face of nut &peen exposed end of bolt.

HARDSCAPE DETAIL SHEET

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT



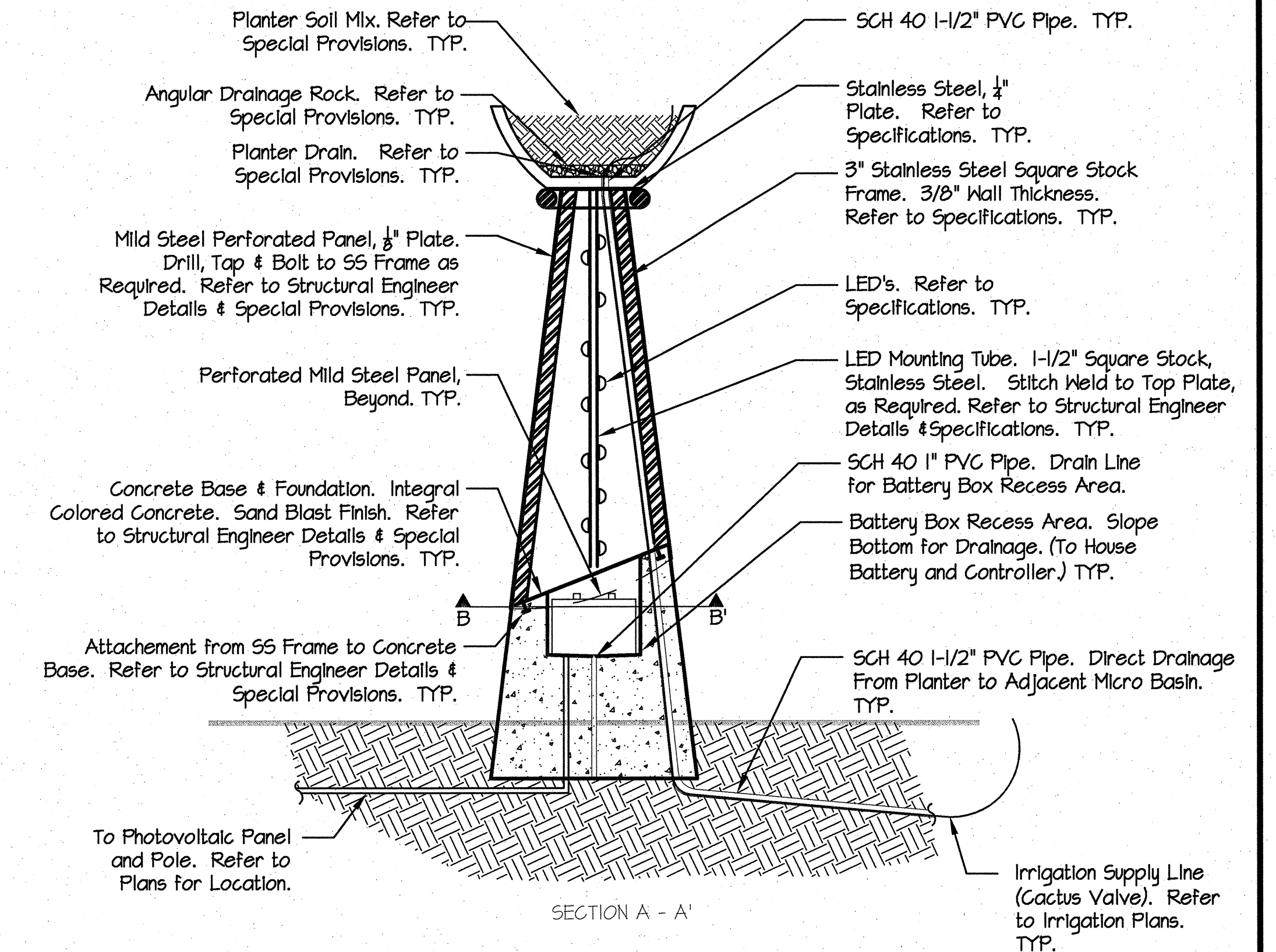
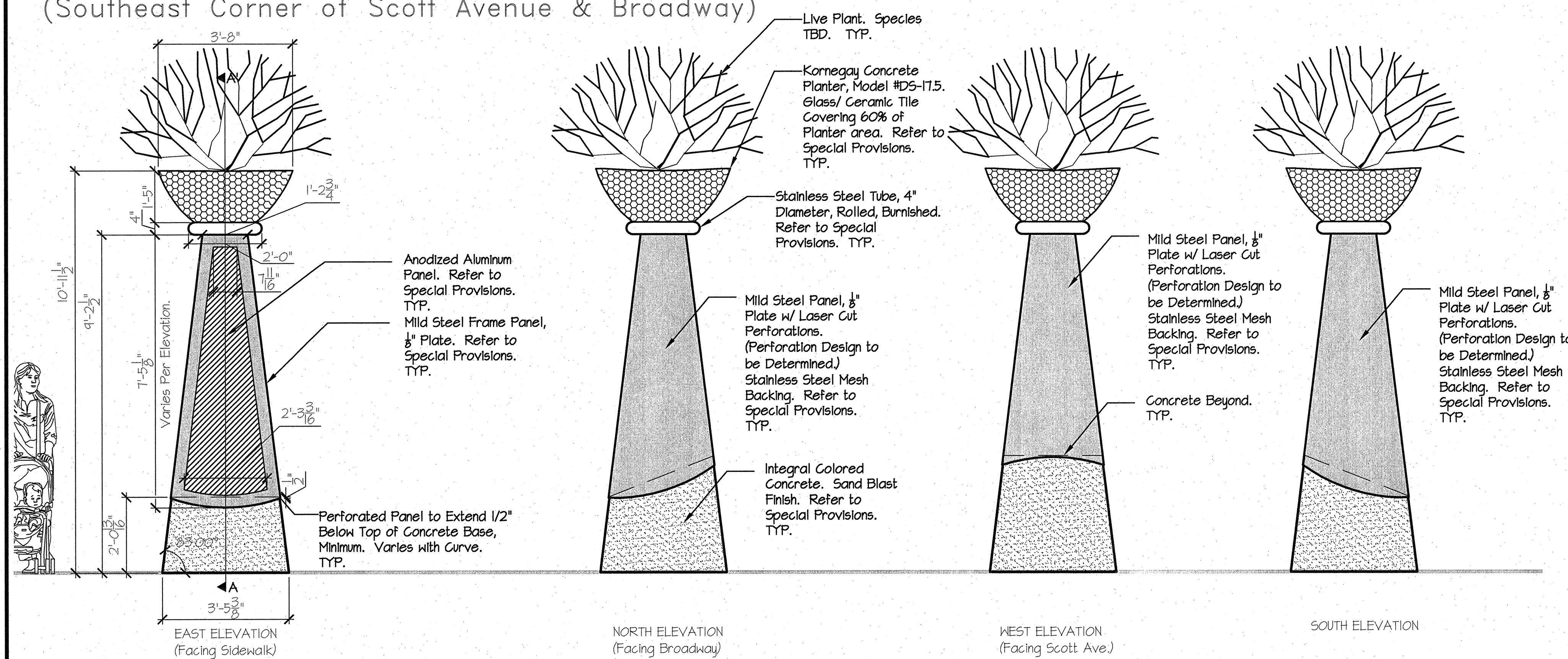
DRWN. BY	H. FLUGSTAD	REF.	L-HSDT05	SCALE:
DSGN. BY	L. RIBES, H.F., C.M., C.C.			
CHKD. BY	L. RIBES	PLAN NO.	I-2008-027	

NO.	DATE	REVISION	BY	CHKD.	APPR.

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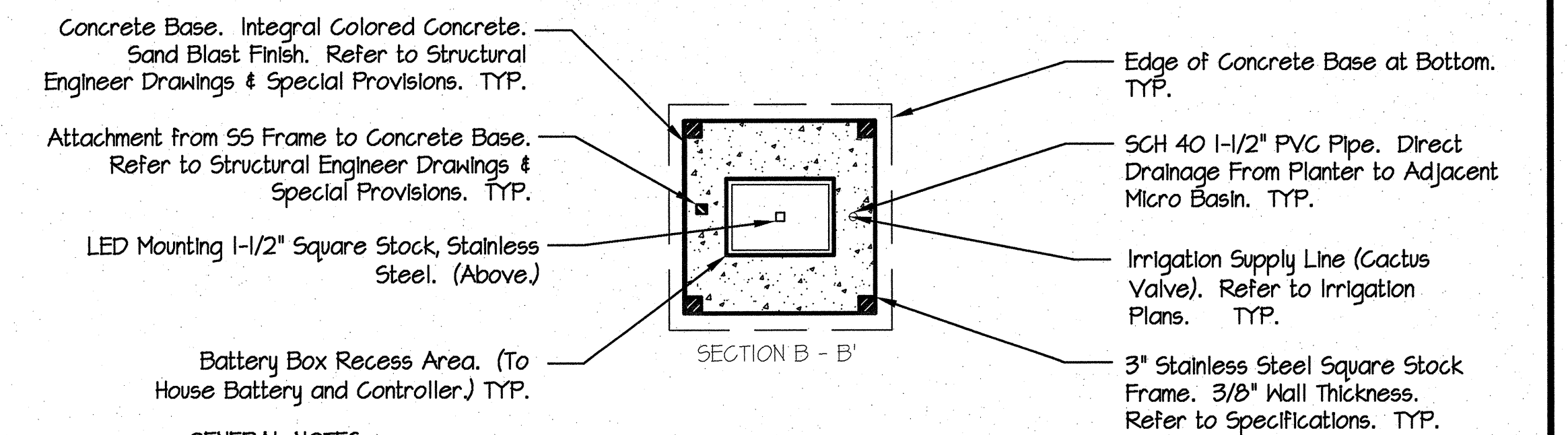
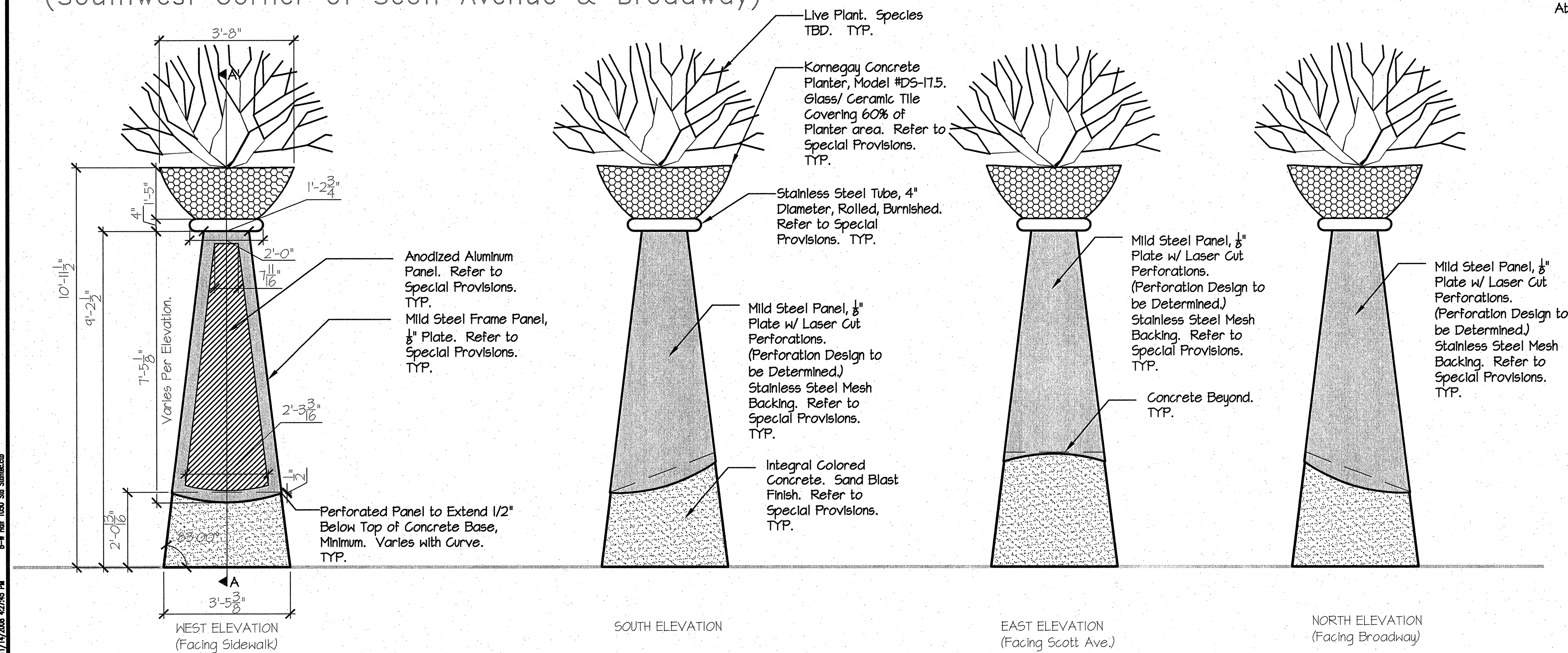
GATEWAY FEATURE #1

(Southeast Corner of Scott Avenue & Broadway)



GATEWAY FEATURE #2

(Southwest Corner of Scott Avenue & Broadway)



GENERAL NOTES:

1. This work includes a quantity of two (2) Gateway Features, located at the southeast and southwest corners of Broadway and Scott Avenue. Refer to Hardscape Plans for locations.
2. LED lights to be solar powered. This work includes Photovoltaic panels (one per Gateway), mounted on free-standing, remote poles, conduit and wiring. Refer to Hardscape Plans for locations of photovoltaic poles.
3. Gateway Feature #1, east elevation and Gateway Feature #2 west elevation shall be an anodized aluminum interpretive panel. Refer to Special Provisions.
4. The remaining panels for each Gateway Feature shall be mild steel, 3/8" plate with laser cut perforations. (Perforation design to be determined.) Finish to be acid wash with urethane clear coat. Refer to Special Provisions.
5. Cactus valve irrigation line shall be supplied to each elevated planter.
6. A total of 20 LED's shall be supplied per Gateway Feature, approximately 6 - 7 per perforated panel side. Refer to Special Provisions.
7. No LED shall be provided on the anodized aluminum panel side.
8. All steel used for structural support shall be 304 Stainless Steel.
9. All attachment components (bolts, screws, studs, etc) shall be 304 Stainless Steel, unless otherwise specified. Attachment details to be determined. Refer to Special Provisions.
10. All mild steel shall be acid washed and clear coated with a 3-coat urethane process. Refer to Special Provisions.

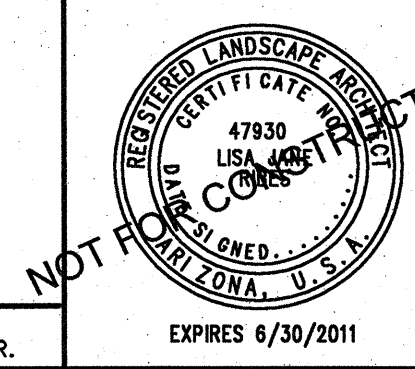
HARDSCAPE DETAIL SHEET

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

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

REF. L-HSDT06 SCALE:
 PLAN NO. I-2008-027

37 OF 71



NO.	DATE	REVISION	BY	CHKD.	APPR.

1 GATEWAY FEATURE

1/2"=1'-0"

H. FLUGSTAD, Landscape Architect, License No. 47830, State of Arizona
 L. RIBES, H.F., C.M., C.C., License No. 17172, State of Arizona
 B-W: 10/10/2008, S.H. Statewide

GENERAL NOTES - MICROBASINS

1. Microbasins with curb cut as shown. Refer to Sheet L-HSDT02 and Specifications.
2. Microbasins are to be constructed in planted areas, where space allows. Refer to Sheet L-HSDT02 and Specifications.
3. All planted areas to be recessed below pavement to capture rain water unless otherwise noted. Refer to Hardscape Detail 2 and Specifications.
4. Water harvesting retention areas, including microbasins, shall NOT be located within 10' of a building structure.
5. Stake locations for boulders for approval by Landscape Architect prior to installation.
6. Amend all soil in all Planting Areas (PA). Refer to L-PLDT03, Plans and Specifications.

KEY NOTES - MICROBASINS

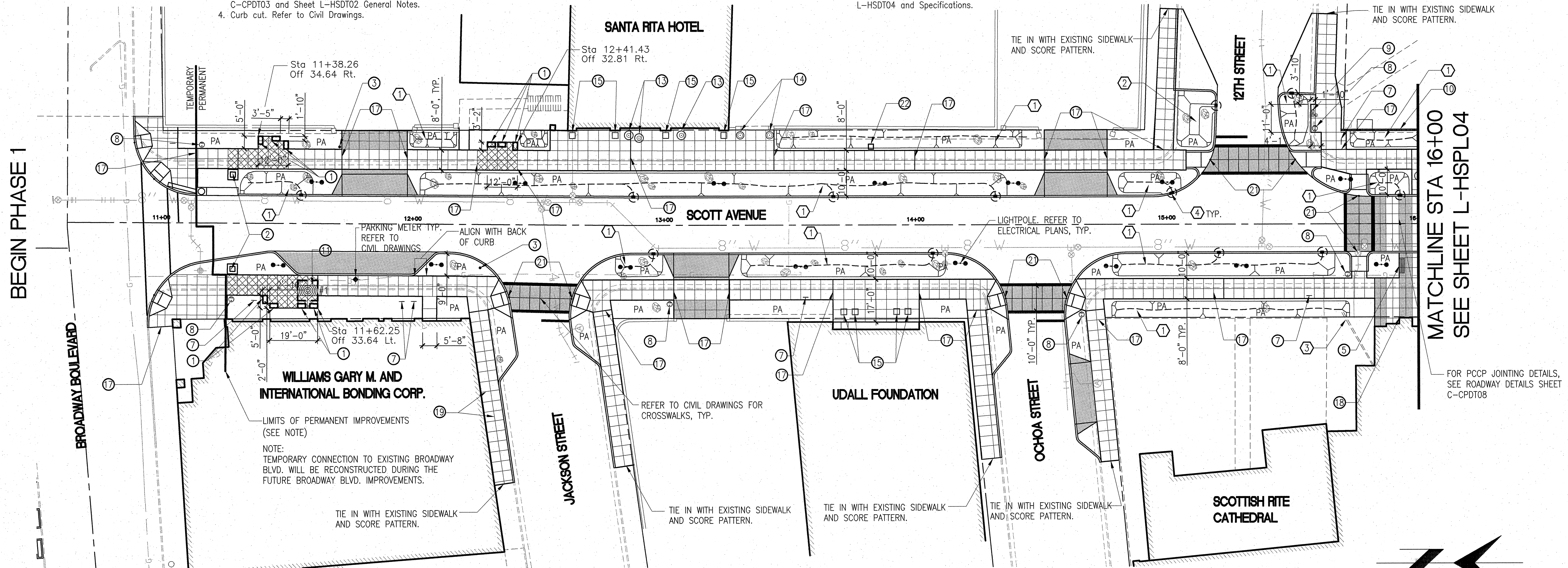
1. Microbasin "A". Refer to Sheet L-HSDT02, Details 6, 7, 8 and Specifications. Refer to Civil Drawings for further information.
2. Microbasin "B". Refer to Sheet L-HSDT02, Details 9, 10 and Specifications. Refer to Civil Drawings for further information.
3. Direct downspout drainage to microbasin. Refer to Sheet C-CPDT03 and Sheet L-HSDT02 General Notes.
4. Curb cut. Refer to Civil Drawings.

GENERAL NOTES - HARDSCAPE

1. Paving shall be sloped to drain to planting areas.
2. All sidewalks and ramps shall be integrally colored concrete, Davis Colors 'Sandstone', 5237, etched finish, unless otherwise noted. Refer to Specifications.
3. Screened rock to be placed in all planting and non-paved areas. Refer to Specifications.
4. See plans for expansion joint locations. All other joints either Construction or Control Joints. Refer to Hardscape Detail 1, Sheet L-HSDT01.
5. Refer to Civil Plans for roadway layout, ramps, curb cuts and curbs.

KEYNOTES

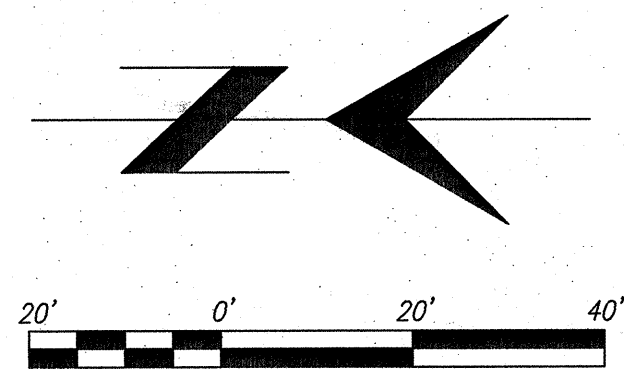
1. Seatwall with Recessed LED Light. Refer to Hardscape Detail 23, Sheet L-HSDT05, and Specifications.
2. Gateway Feature with Solar LED light. Refer to Sheet L-HSDT06.
3. 15' Steel Pole for Photovoltaic Panel, 4"-6" dia. Refer to Specifications.
4. Reserved
5. 6' Bench with Back, Armrest, and Center Arm. Refer to Hardscape Detail 14, Sheet L-HSDT03.
6. 6' Bench, no back. Refer to Hardscape Detail 14, Sheet L-HSDT03.
7. Steel Inverted U Bicycle Rack, Powdercoated. Refer to Hardscape Detail 13, Sheet L-HSDT03.
8. Trash/Recycle Receptacle. Refer to Hardscape Detail 16, Sheet L-HSDT03.
9. Drinking Fountain. Refer to Specifications.
10. Concrete Header, 6"W x 8"D. Refer to Hardscape Detail 15, Sheet L-HSDT03.
11. Tree Grate. Tree Grates to be Field Fit around Existing Trees. Stake Locations for approval by Landscape Architect prior to installation. See Sheet L-HSPL05 for Grate Legend.
12. Glass Seeded Concrete Paver. Refer to Hardscape Detail 19, Sheet L-HSDT04 and Specifications.
13. 44" Diameter Concrete Landscape Container, 17.5"H. Refer to Specifications for Manufacturer and Color.
14. 36" Diameter Concrete Landscape Container, 23"H. Refer to Specifications for Manufacturer and Color.
15. Steel Planting Container. Refer to Hardscape Detail 4, Sheet L-HSDT01.
16. Removable Bollard. Refer to Hardscape Detail 24, Sheet L-HSDT05.
17. Expansion Joint
18. Align Pavement Joint with Edge of Building Corner, Typ. this Area.
19. Control Joint, Refer to Hardscape Detail 1, Sheet L-HSDT01.
20. Recessed LED Solar Paver Light. Refer to Sheet L-HSPL05 for Solar Paver Light Legend. Stake Light Locations for approval by Landscape Architect prior to installation. Refer to Hardscape Detail 22, Sheet L-HSDT04 and Specifications.
21. Street Name Sandblasted 1/4" in Concrete. Refer to Hardscape Detail 17, Sheet L-HSDT04. Font and Location to be approved by Landscape Architect.
22. Interpretive Signage Pedestal. Refer to Hardscape Detail 25, Sheet L-HSDT05.



BEGIN PHASE 1

MATCHLINE STA 16+00
SEE SHEET L-HSPL04

FOR PCCP JOINTING DETAILS, SEE ROADWAY DETAILS SHEET C-CPDT08



MATERIAL LEGEND

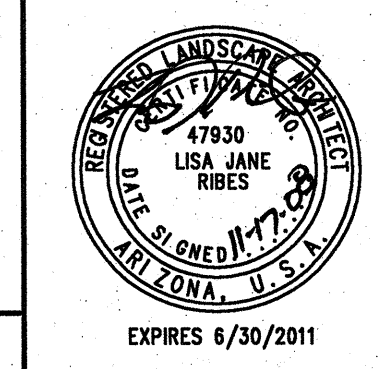
SYMBOL	MATERIAL	UNIT	QTY.
[Grid Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR 'SANDSTONE', ETCHED FINISH	SY	3950
[Dotted Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR 'SANDSTONE', EXPOSED AGGREGATE FINISH	SY	4560
[Cross-hatch Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR 'SANDSTONE', SEEDED GLASS AGGREGATE	SY	130
[Solid Grey]	GLASS BLASTED CONCRETE PAVER	LF	560

MATERIAL LEGEND

SYMBOL	MATERIAL	UNIT	QTY.
[Large Circle]	36" DIA. BOULDER	EA	20
[Small Circle]	24" DIA. BOULDER	EA	45
[Square with X]	TREE GRATE 4' x 8'	EA	41
[Square with X]	4' x 4'	EA	1
[Dashed Box]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	36
[PA]	PLANTING AREA		

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

NO.	DATE	REVISION	BY	CHKD.	APPR.



HARDSCAPE PLANS

<p>DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT</p>		<p>38 OF 71</p>
<p>DRWN. BY H. FLUGSTAD DSGN. BY L. RIBES, H.F., C.M., C.C. CHKD. BY L. RIBES</p>	<p>REF. L-HSPL03 SCALE: 1"=20'-0"</p>	<p>PLAN NO. I-2008-027</p>

0: H:\AS\010111\Drawings\08_SCI\149805.dwg
 11/14/2008 4:26:57 PM
 B-H Half 1000 S&B Standard

GENERAL NOTES - MICROBASINS

1. Microbasins with curb cut as shown. Refer to Sheet L-HSDT02 and Specifications.
2. Microbasins are to be constructed in planted areas, where space allows. Refer to Sheet L-HSDT02 and Specifications.
3. All planted areas to be recessed below pavement to capture rain water unless otherwise noted. Refer to Hardscape Detail 2 and Specifications.
4. Water harvesting retention areas, including microbasins, shall NOT be located within 10' of a building structure.
5. Stake locations for boulders for approval by Landscape Architect prior to installation.
6. Amend all soil in all Planting Areas (PA). Refer to L-PLDT03, Plans and Specifications.

KEY NOTES - MICROBASINS

1. Microbasin "A". Refer to Sheet L-HSDT02, Details 6, 7, 8 and Specifications. Refer to Civil Drawings for further information.
2. Microbasin "B". Refer to Sheet L-HSDT02, Details 9, 10 and Specifications. Refer to Civil Drawings for further information.
3. Direct downspout drainage to microbasin. Refer to Sheet C-CPDT03 and Sheet L-HSDT02 General Notes.
4. Curb cut. Refer to Civil Drawings.

GENERAL NOTES - HARDSCAPE

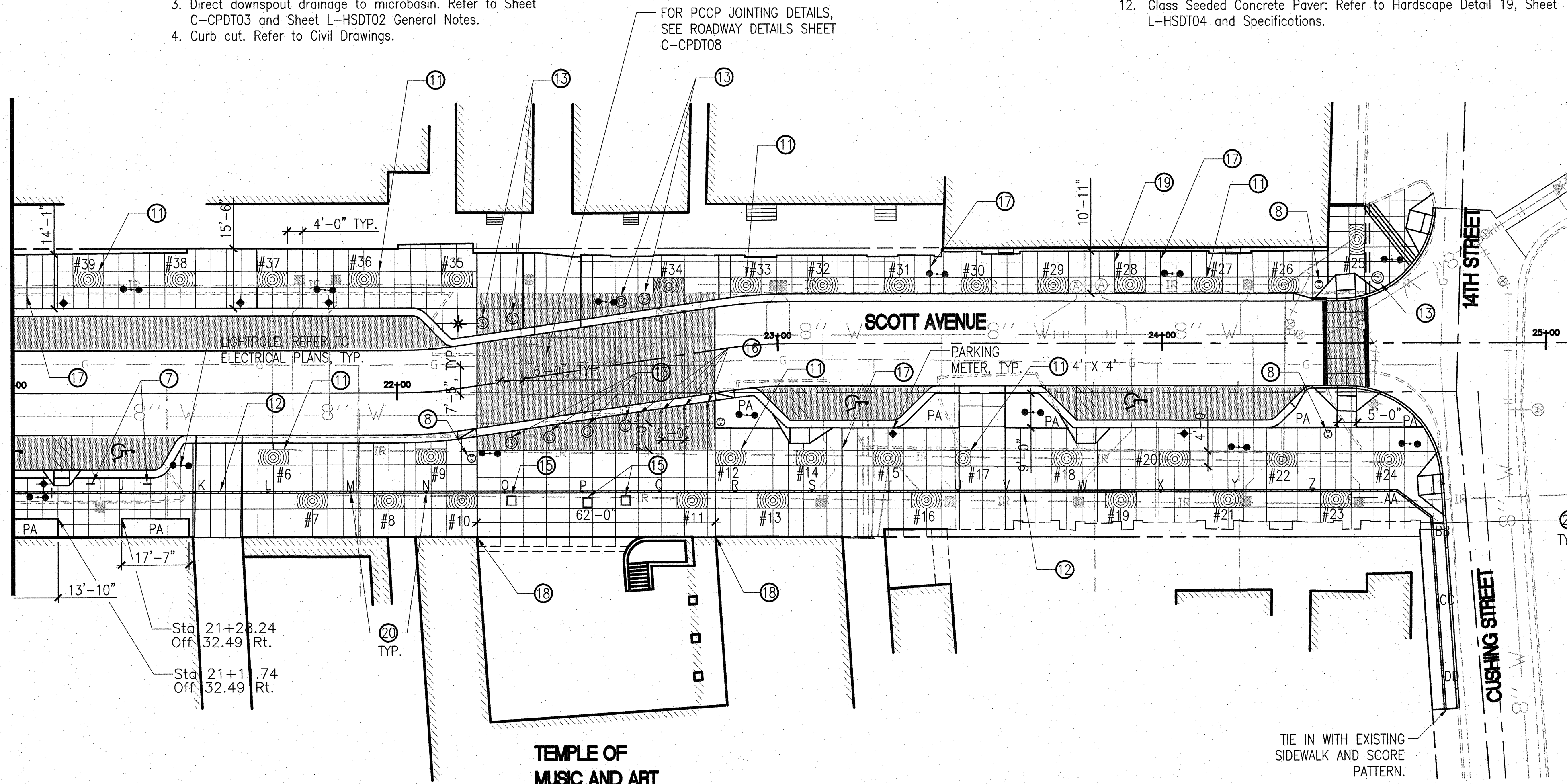
1. Paving shall be sloped to drain to planting areas.
2. All sidewalks and ramps shall be integrally colored concrete, Davis Colors "Sandstone", 5237, etched finish, unless otherwise noted. Refer to Specifications.
3. Screened rock to be placed in all planting and non-paved areas. Refer to Specifications.
4. See plans for expansion joint locations. All other joints either Construction or Control Joints. Refer to Hardscape Detail 1, Sheet L-HSDT01.
5. Refer to Civil Plans for roadway layout, ramps, curb cuts and curbs.

KEYNOTES

1. Seatwall with Recessed LED Light. Refer to Hardscape Detail 23, Sheet L-HSDT05, and Specifications.
2. Gateway Feature with Solar LED light. Refer to Sheet L-HSDT06.
3. 15' Steel Pole for Photovoltaic Panel, 4"-6" dia. Refer to Specifications.
4. Reserved
5. 6' Bench with Back, Armrest, and Center Arm. Refer to Hardscape Detail 14, Sheet L-HSDT03.
6. 6' Bench, no back. Refer to Hardscape Detail 14, Sheet L-HSDT03.
7. Steel Inverted U Bicycle Rack, Powdercoated. Refer to Hardscape Detail 13, Sheet L-HSDT03.
8. Trash/Recycle Receptacle. Refer to Hardscape Detail 16, Sheet L-HSDT03.
9. Drinking Fountain. Refer to Specifications.
10. Concrete Header, 6"W x 8"D. Refer to Hardscape Detail 15, Sheet L-HSDT03.
11. Tree Grate. Tree Grates to be Field Fit around Existing Trees. Stake Locations for approval by Landscape Architect prior to installation. See Sheet L-HSPL05 for Grate Legend.
12. Glass Seeded Concrete Paver. Refer to Hardscape Detail 19, Sheet L-HSDT04 and Specifications.

13. 44" Diameter Concrete Landscape Container, 17.5"H. Refer to Specifications for Manufacturer and Color.
14. 36" Diameter Concrete Landscape Container, 23"H. Refer to Specifications for Manufacturer and Color.
15. Steel Planting Container. Refer to Hardscape Detail 4, Sheet L-HSDT01.
16. Removable Ballard. Refer to Hardscape Detail 24, Sheet L-HSDT05.
17. Expansion Joint
18. Align Pavement Joint with Edge of Building Corner, Typ. this Area.
19. Control Joint, Refer to Hardscape Detail 1, Sheet L-HSDT01.
20. Recessed LED Solar Paver Light. Refer to Sheet L-HSPL05 for Solar Paver Light Legend. Stake Light Locations for approval by Landscape Architect prior to installation. Refer to Hardscape Detail 22, Sheet L-HSDT04 and Specifications.
21. Street Name Sandblasted 1/4" in Concrete. Refer to Hardscape Detail 17, Sheet L-HSDT04. Font and Location to be approved by Landscape Architect.
22. Interpretive Signage Pedestal. Refer to Hardscape Detail 25, Sheet L-HSDT05.

MATCHLINE STA 21+00
SEE SHEET L-HSPL04



TREE GRATE LEGEND

GRATE #	STATION AND OFFSET	SIZE	OPENING SIZE
1	Sta 11+71.37 Off 24.64' Rt	4' x 8'	16"
2	Sta 18+98.02 Off 28.65' Rt	4' x 8'	16"
3	Sta 19+28.02 Off 28.64' Rt	4' x 8'	16"
4	Sta 19+57.12 Off 28.65' Rt	4' x 8'	16"
5	Sta 19+85.12 Off 28.63' Rt	4' x 8'	16"
6	Sta 21+63.75 Off 18.74' Rt	4' x 8'	16"
7	Sta 21+73.87 Off 30.10' Rt	4' x 8'	36"
8	Sta 21+93.79 Off 30.11' Rt	4' x 8'	24"
9	Sta 22+03.31 Off 18.68' Rt	4' x 8'	24"
10	Sta 22+10.61 Off 30.73' Rt	4' x 8'	24"
11	Sta 22+68.50 Off 39.25' Rt	4' x 8'	16"
12	Sta 22+80.01 Off 29.71' Rt	4' x 8'	16"
13	Sta 22+89.34 Off 42.20' Rt	4' x 8'	16"
14	Sta 23+04.56 Off 31.64' Rt	4' x 8'	16"
15	Sta 23+24.62 Off 31.70' Rt	4' x 8'	16"
16	Sta 23+34.60 Off 42.66' Rt	4' x 8'	16"
17	Sta 23+46.81 Off 31.74' Rt	4' x 4'	24"
18	Sta 23+71.10 Off 31.75' Rt	4' x 8'	24"
19	Sta 23+85.20 Off 42.70' Rt	4' x 8'	16"
20	Sta 23+99.27 Off 31.92' Rt	4' x 8'	16"
21	Sta 24+13.14 Off 42.60' Rt	4' x 8'	16"

TREE GRATE LEGEND

GRATE #	STATION AND OFFSET	SIZE	OPENING SIZE
22	Sta 24+27.40 Off 31.90' Rt	4' x 8'	16"
23	Sta 24+41.22 Off 42.62' Rt	4' x 8'	24"
24	Sta 24+55.29 Off 31.81' Rt	4' x 8'	16"
25	Sta 24+48.77 Off 22.86' Lt	4' x 8'	16"
26	Sta 24+27.69 Off 13.20' Lt	4' x 8'	16"
27	Sta 24+07.69 Off 13.14' Lt	4' x 8'	16"
28	Sta 23+87.69 Off 13.26' Lt	4' x 8'	16"
29	Sta 23+67.68 Off 13.18' Lt	4' x 8'	16"
30	Sta 23+47.68 Off 13.11' Lt	4' x 8'	16"
31	Sta 23+27.66 Off 13.13' Lt	4' x 8'	16"
32	Sta 23+07.67 Off 13.23' Lt	4' x 8'	24"
33	Sta 22+89.39 Off 14.19' Lt	4' x 8'	16"
34	Sta 22+70.11 Off 17.09' Lt	4' x 8'	16"
35	Sta 22+15.23 Off 26.69' Lt	4' x 8'	36"
36	Sta 21+87.43 Off 27.50' Lt	4' x 8'	16"
37	Sta 21+63.59 Off 27.49' Lt	4' x 8'	16"
38	Sta 21+39.60 Off 27.54' Lt	4' x 8'	24"
39	Sta 21+15.73 Off 27.50' Lt	4' x 8'	16"
40	Sta 20+91.48 Off 27.43' Lt	4' x 8'	24"
41	Sta 20+67.49 Off 27.61' Lt	4' x 8'	24"
42	Sta 20+43.21 Off 27.76' Lt	4' x 8'	16"

ALL STATION AND OFFSETS ARE TO THE NORTHWEST CORNER OF THE TREE GRATE.

MATERIAL LEGEND

SYMBOL	MATERIAL	UNIT	QTY.
[Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR "SANDSTONE", ETCHED FINISH	SY	3950
[Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR "SANDSTONE", EXPOSED AGGREGATE FINISH	SY	4560
[Pattern]	INTEGRALLY COLORED CONCRETE, DAVIS COLOR "SANDSTONE", SEEDED GLASS AGGREGATE	SY	130
[Pattern]	GLASS BLASTED CONCRETE PAVER	LF	560

MATERIAL LEGEND

SYMBOL	MATERIAL	UNIT	QTY.
[Symbol]	36" DIA. BOULDER	EA	20
[Symbol]	24" DIA. BOULDER	EA	45
[Symbol]	TREE GRATE 4' x 8'	EA	41
[Symbol]	TREE GRATE 4' x 4'	EA	1
[Symbol]	STRUCTURAL SOIL REFER TO SPECIFICATIONS	CY	36
[Symbol]	PLANTING AREA		

SOLAR PAVER LIGHT LEGEND

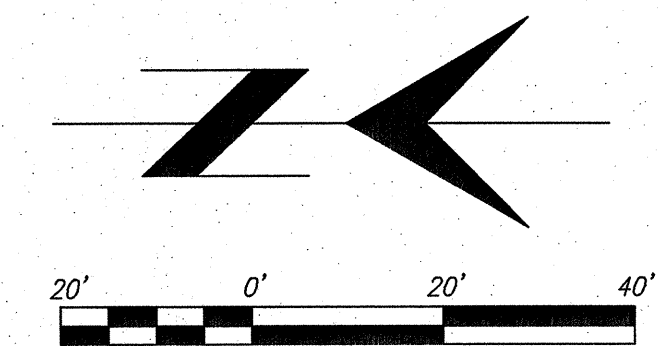
LIGHT	STATION AND OFFSET
A	Sta 19+68.58 Off 54.99' Lt.
B	Sta 19+68.03 Off 39.79' Lt.
C	Sta 19+67.49 Off 25.35' Lt.
D	Sta 20+39.44 Off 24.41' Lt.
E	Sta 20+52.58 Off 24.31' Lt.
F	Sta 20+66.23 Off 24.20' Lt.
G	Sta 20+67.70 Off 25.83' Rt.
H	Sta 20+87.98 Off 25.83' Rt.
I	Sta 21+07.98 Off 25.83' Rt.
J	Sta 21+27.98 Off 25.83' Rt.
K	Sta 21+47.12 Off 25.83' Rt.
L	Sta 21+66.29 Off 25.83' Rt.
M	Sta 21+87.88 Off 25.83' Rt.
N	Sta 22+06.19 Off 26.01' Rt.
O	Sta 22+23.95 Off 28.39' Rt.

SOLAR PAVER LIGHT LEGEND

LIGHT	STATION AND OFFSET
P	Sta 22+43.83 Off 31.32' Rt.
Q	Sta 22+63.79 Off 34.26' Rt.
R	Sta 22+83.20 Off 37.14' Rt.
S	Sta 23+08.80 Off 38.46' Rt.
T	Sta 23+28.86 Off 38.48' Rt.
U	Sta 23+46.87 Off 38.47' Rt.
V	Sta 23+59.37 Off 38.47' Rt.
W	Sta 23+79.36 Off 38.46' Rt.
X	Sta 23+99.52 Off 38.36' Rt.
Y	Sta 24+18.95 Off 38.36' Rt.
Z	Sta 24+39.11 Off 38.36' Rt.
AA	Sta 24+59.53 Off 38.37' Rt.
BB	Sta 24+70.18 Off 46.86' Rt.
CC	Sta 24+71.62 Off 66.81' Rt.
DD	Sta 24+73.00 Off 86.76' Rt.

ALL STATION AND OFFSETS ARE TO THE CENTER OF THE LIGHT.

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



HARDSCAPE PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

40 OF 71

REF. L-HSPL05 SCALE: 1"=20'-0"

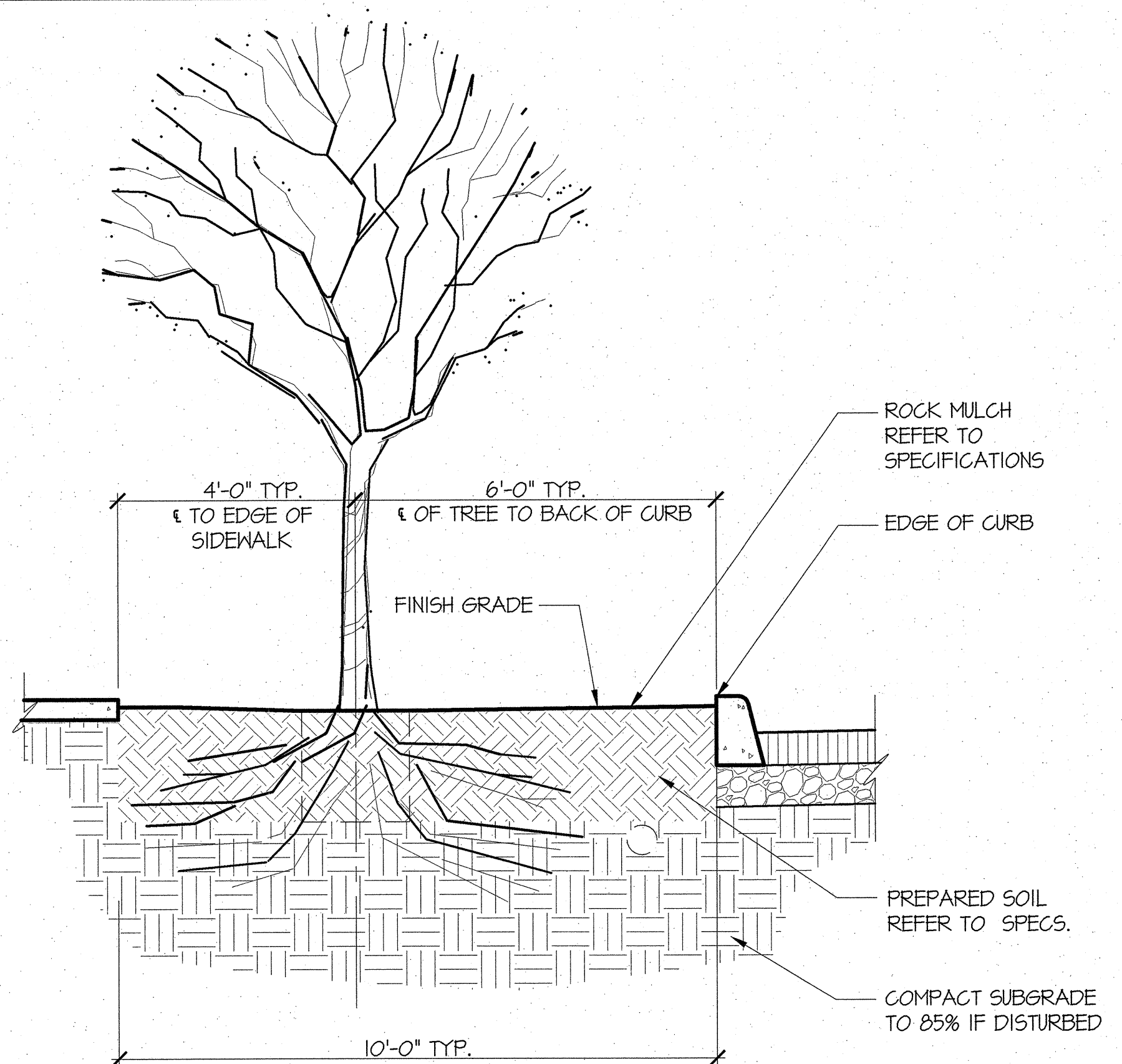
PLAN NO. I-2008-027

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

CITY OF TUCSON

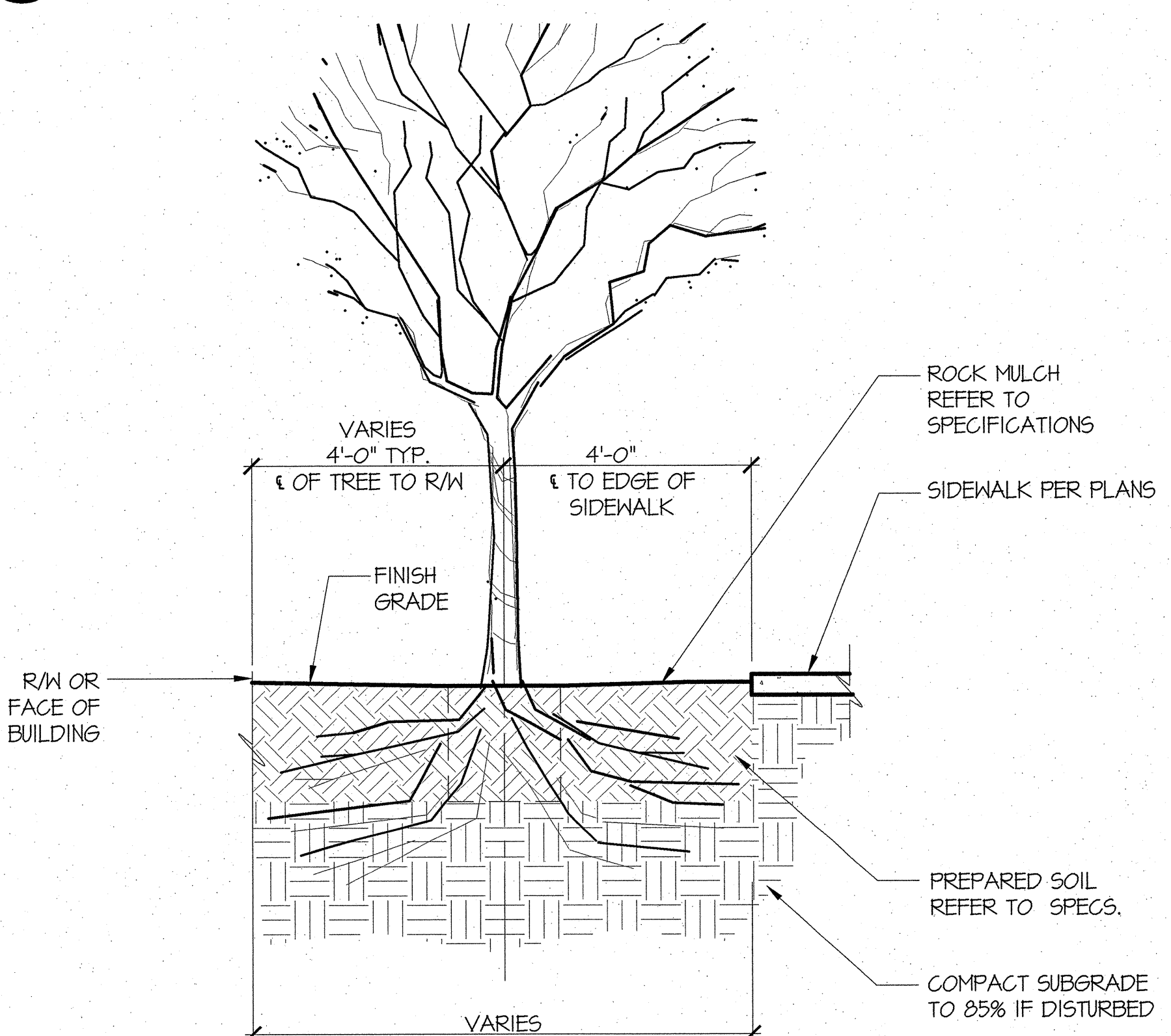
EXPIRES 6/30/2011

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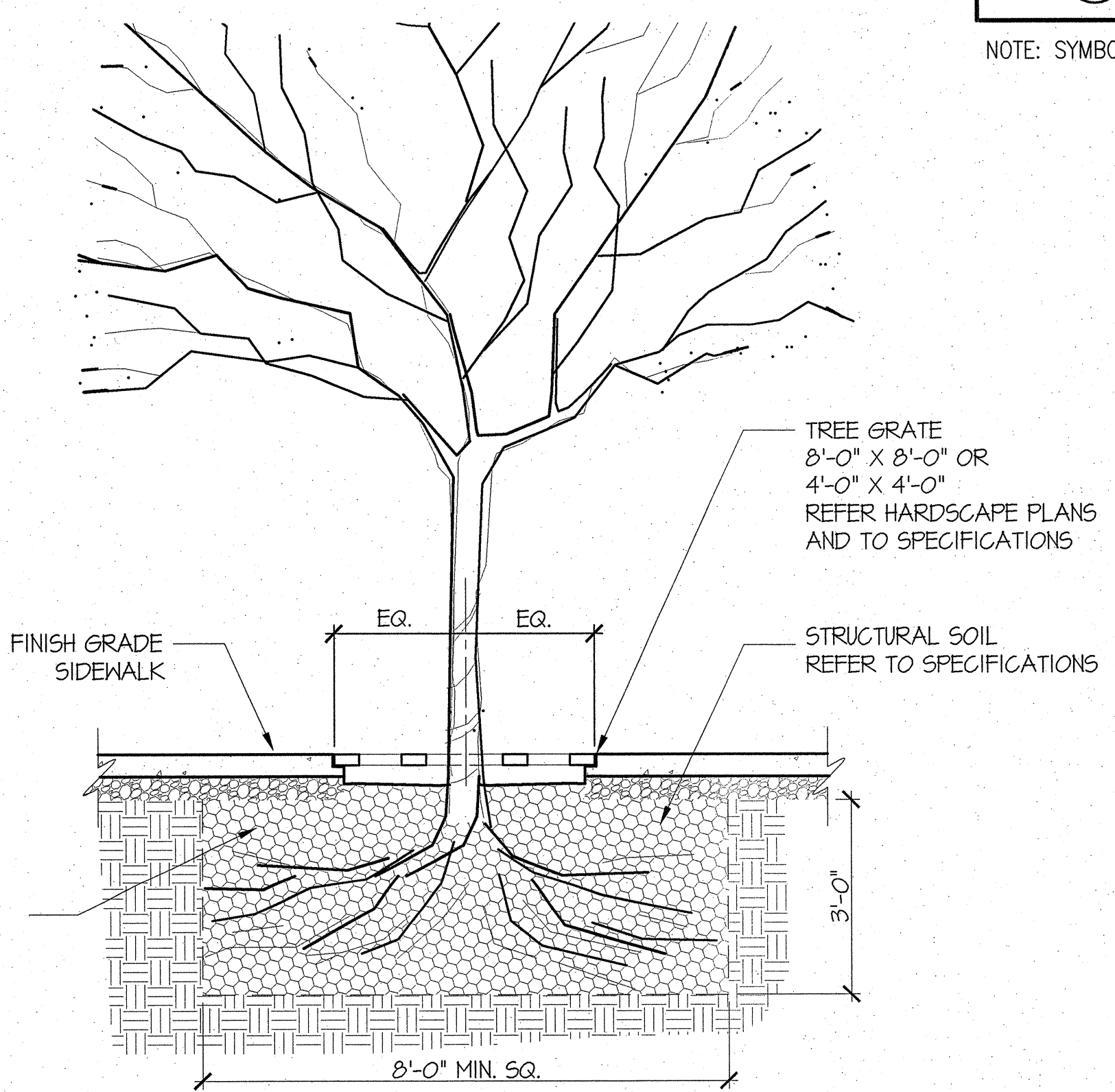
NOTES:
 1. No plants shall be pruned except at the direction of the owner's representative.
 2. Refer to Sheet L-HSDT02 for planting in microbasins.

5 TREE LAYOUT AT CURB $\frac{1}{2}''=1'-0''$



NOTES:
 1. No plants shall be pruned except at the direction of the owner's representative.
 2. Refer to Sheet L-HSDT02 for planting in microbasins.

6 TREE LAYOUT AT R/W $\frac{1}{2}''=1'-0''$



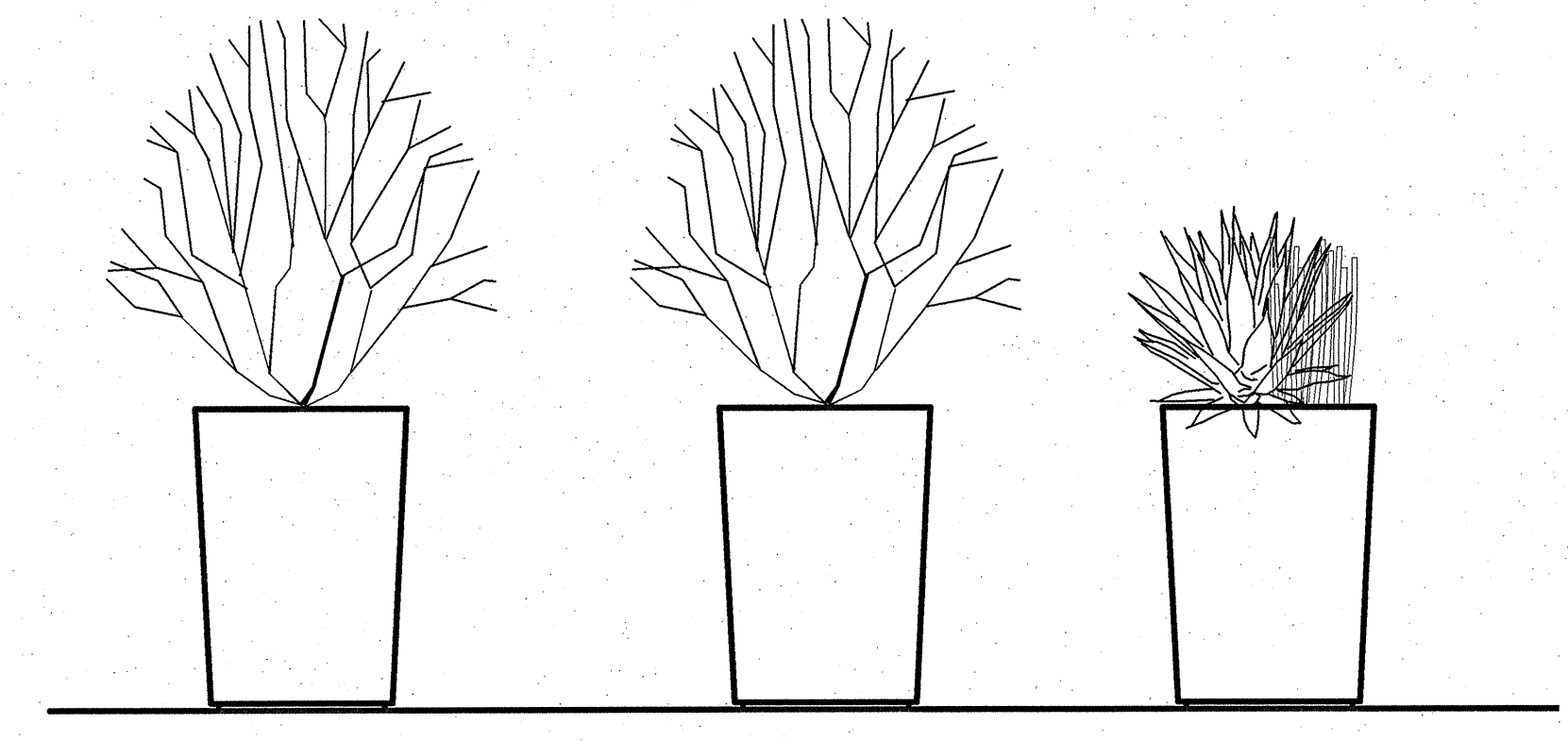
NOTE:
 REFER TO HARDSCAPE DETAILS FOR TREE GRATE INSTALLATION.

7 TREE GRATE WITH STRUCTURAL SOIL $\frac{1}{2}''=1'-0''$

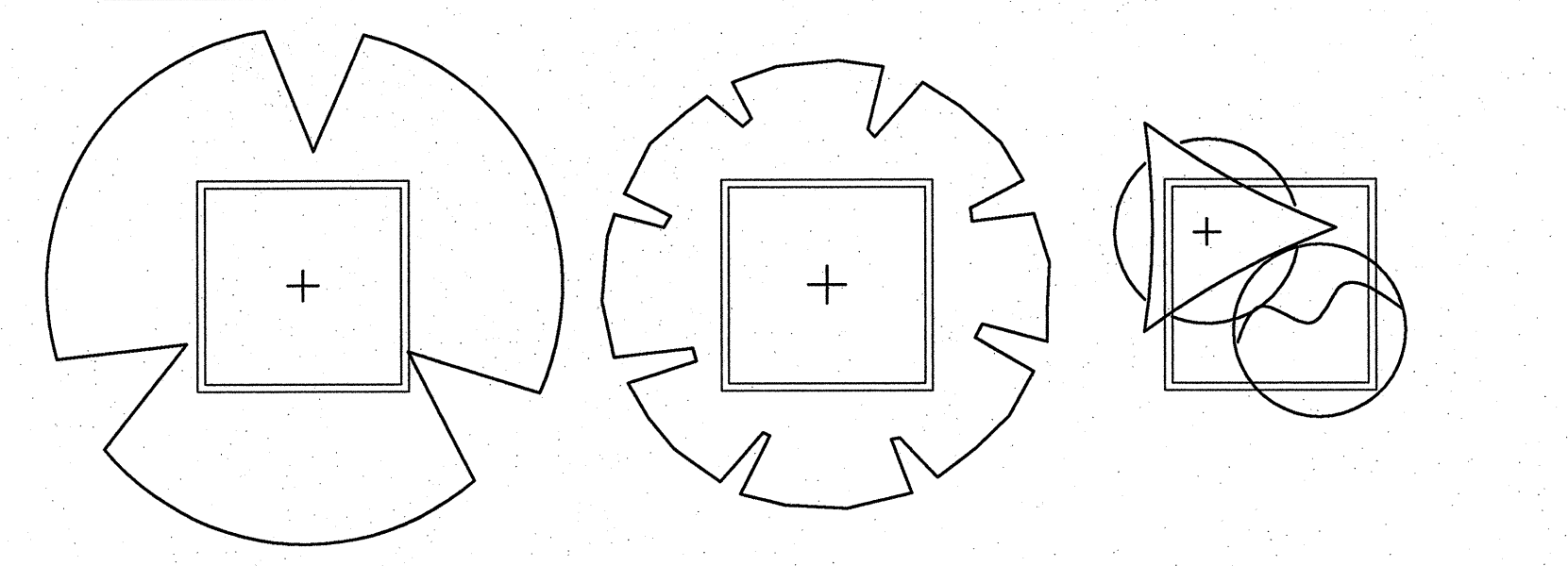
PLANT MATERIAL SCHEDULE FOR CONTAINERS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	<i>Fortunella margarita</i> Kumquat	5 gal	4
	<i>Punica granatum</i> Pomegranate	5 gal	4
	<i>Agave potatorum</i> Pétite Blue Agave	5 gal 2' W	12
	<i>Aloe barbadensis</i> Aloe	5 gal	12
	<i>Euphorbia antisiphilitica</i> Candellia	5 gal	10
	<i>Hesperaloe nocturna</i> Night-blooming Hesperaloe	5 gal	12
	<i>Pedilanthus macrocarpus</i> Slipper Plant	5 gal 10 stems min.	2
	<i>Mammillaria grahamii</i> Pincushion Cactus	4" min. H	8
	<i>Opuntia ficus-indica</i> Indian Fig	5 gal	12
	<i>Yucca pallida</i> Paleleaf Yucca	5 gal	8

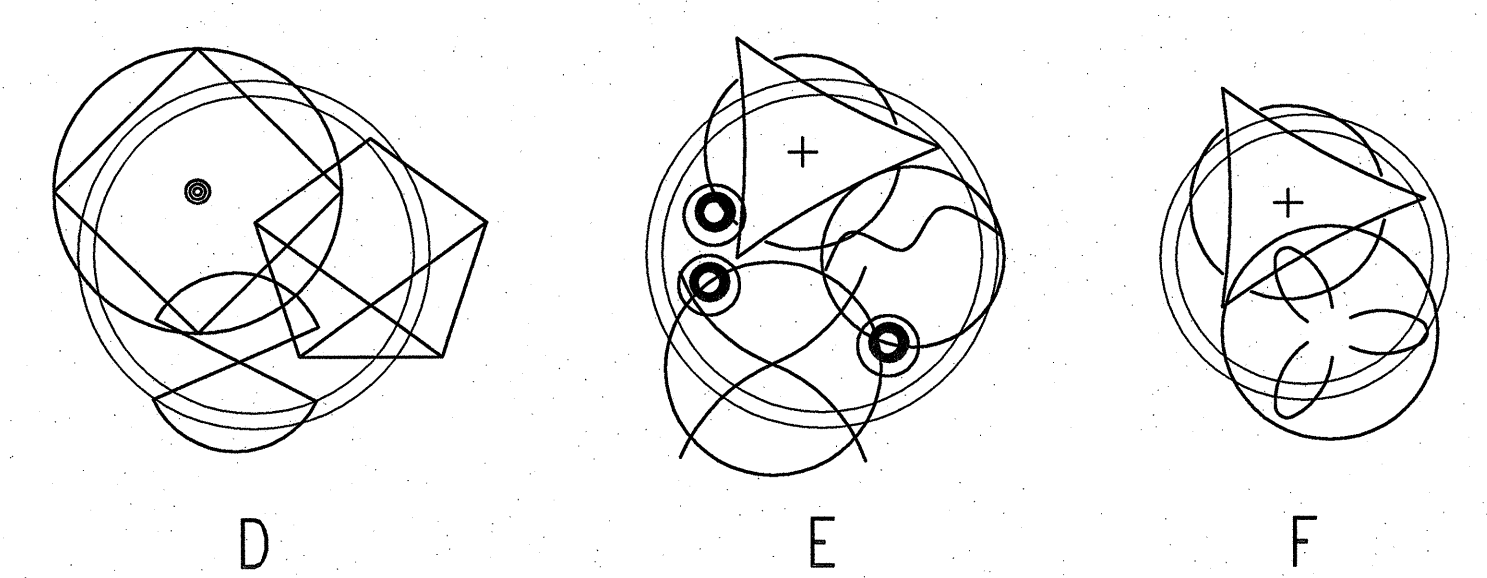
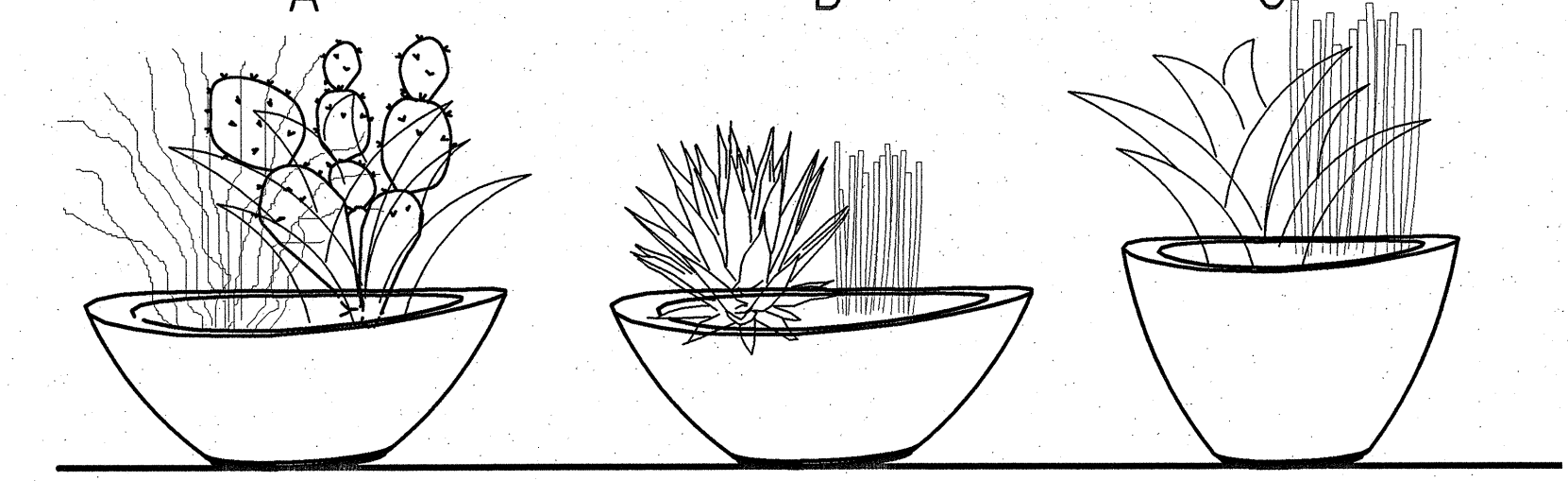
NOTE: SYMBOLS SHOWN HALF SIZE



STEEL PLANTERS



A B C



D E F

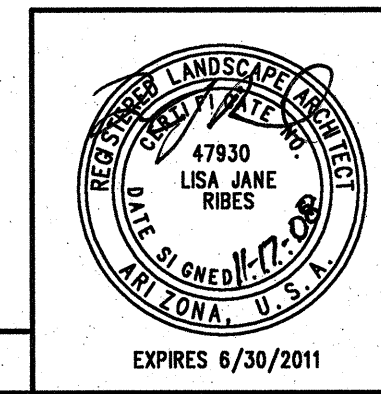
CONCRETE PLANTERS
 NOTES:
 1. Refer to Specifications for planter soil mix and drainage rock.
 2. Refer to Detail 4, Sheet L-HSDT01 for Steel Planter.
 3. Mulch containers with screened rock to match rock in planting areas.

8 CONTAINER PLANTING $\frac{1}{2}''=1'-0''$

PLANTING DETAIL SHEET

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
 SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

42 OF 71



DRWN. BY	C. MARSHALL	REF.	L-PLDT02	SCALE:	
DSGN. BY	C. MARSHALL				
CHKD. BY	L. RIBES	PLAN NO.	I-2008-027		

NO.	DATE	REVISION	BY	CHKD.	APPR.

8-11 Ref. 1050 SH Standard
 1/17/2008 10:53 AM
 47930 LISA JANE RIBES
 STATE OF ARIZONA
 EXPIRES 6/30/2011

PLANT SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Acacia smallii Sweet Acacia	N/A	31
	Acacia smallii Sweet Acacia	min. size: 1.25 in. caliper	11
	'Sierra Sweet' seedless	7' H x 3.5' W Standard Trunk	
	Chilopsis linearis Desert Willow	min. size: 1.5 in. caliper	5
	'Warren Jones'	7' H x 3.5' W Standard Trunk	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper	3
	Olneya tesota Desert Ironwood	min. size: 1.5 in. caliper	10
	'AZT' or approved salvaged specimen	7' H x 3.5' W Low Branch Standard	
	Parkinsonia floridum Blue Palo Verde	min. size: 1.5 in. caliper	42
	approved salvaged specimens acceptable	7' H x 3.5' W Low Branch Standard	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Prosopis glandulosa Texas Honey Mesquite	min. size: 1.25 in. caliper	27
	'Maverick'	7' H x 3.5' W Low Branch Standard	
	Sophora secundiflora Mountain Laurel	min. size: 1.25 in. caliper	5
		5' H x 2.5' W Low Branch/Multi	

GENERAL NOTES

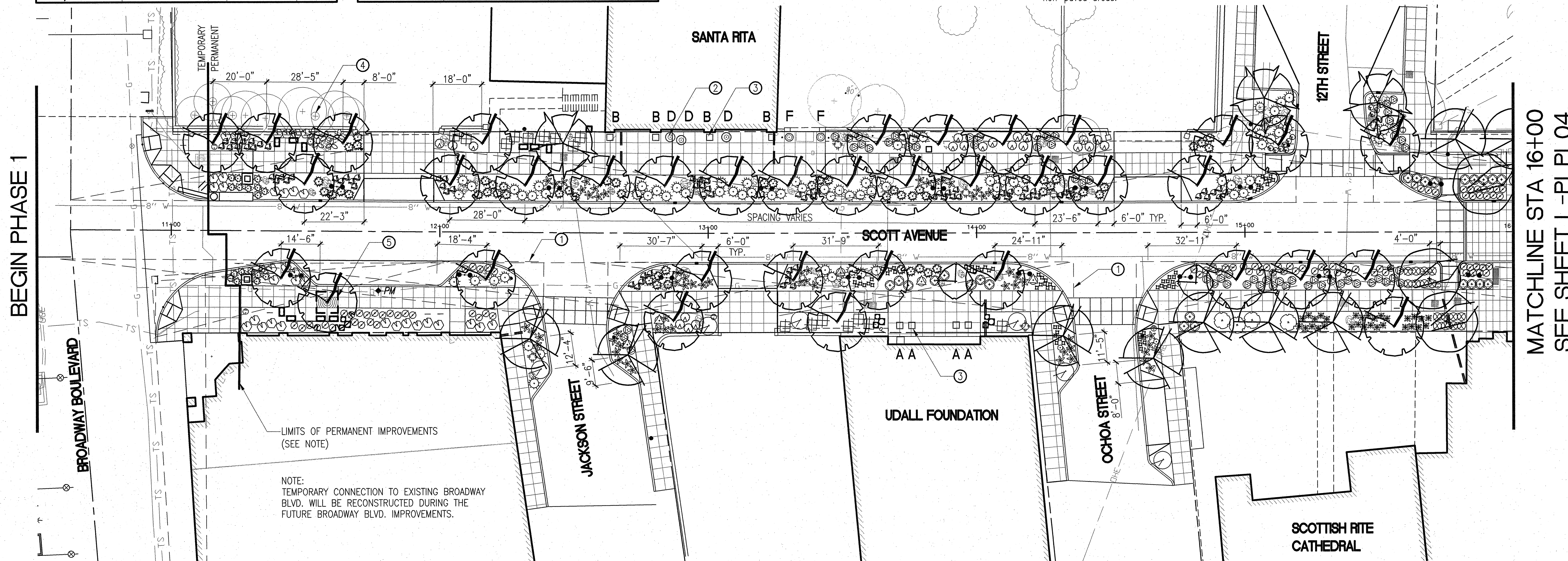
- Contractor is responsible to verify all plant quantities. The plant list is intended as a reference only. Quantities shown are for Scott Ave. project limits from Broadway Blvd. to 14th St.
- "Low Branch Standard" is defined as a tree with more than one main trunk, breaking more than 12" above soil line. "Multi Trunk" is defined as a tree with more than one main trunk originating at or near soil line.
- 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.
- Refer to Sheets L-HSPL03 and L-HSPL04 for Microbasin locations.
- Amend all soil in planting area prior to installing plants. Refer to Specifications and Sheet L-PLDT03.
- Refer to Detail 8, Sheet L-PLDT02 for plants in containers.
- Refer to Details 5 and 6, Sheet L-PLDT02 for tree layout dimensions.
- Refer to Civil Drawings for demolition of existing vegetation. Refer to Specifications for protection of existing trees to remain.
- Place screened rock/crushed concrete mixture in all planting and non-paved areas.

KEYNOTES

- Sight Visibility Triangle. Refer to Civil Drawings.
- Concrete Planter. Refer to Hardscape plans and planting details.
- Steel Planter. Refer to Hardscape plans and planting details.
- Existing vegetation to remain.
- Tree Grates. Refer to Hardscape Plans.

NOTE

Refer to Details 5 and 6 Sheet L-PLDT02 for Tree Layout. Locate trees as shown on plan. Final tree location to be staked and approved by Landscape Architect.



BEGIN PHASE 1

MATCHLINE STA 16+00
SEE SHEET L-PLP04

SHRUBS

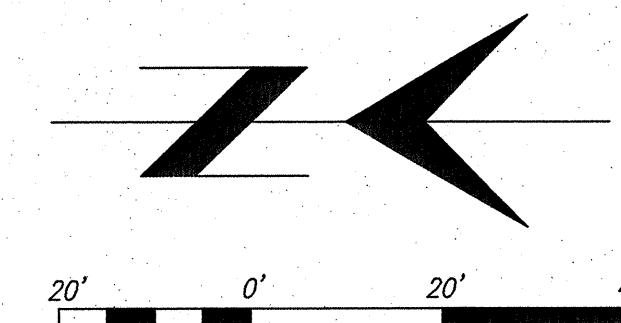
SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Aloysia wrightii Oregonillo	5 gal	5
	Baileya multiradiata Desert Marigold	1 gal	104
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	98
	Dalea formosa Feather Dalea	1 gal	115
	Encelia farinosa Brittlebush	1 gal	35
	Ericameria laricifolia Turpentine Bush	5 gal	67
	Larrea tridentata Creosote Bush	5 gal	6
	Leucophyllum laevigatum Chihuahuan Sage	5 gal	22
	Melampodium leucanthum Blackfoot Daisy	1 gal	88

SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Parthenium incanum Mariola	1 gal	92
	Penstemon sp. Penstemon	1 gal	36
	Plumbago scandens Native Plumbago	1 gal	30
	Psilostrophe cooperi Paperflower	1 gal	65
	Salvia chamaedryoides Blue Sage	1 gal	113
	Simmondsia chinensis Jojoba	5 gal	11
	Sphaeralcea ambigua Globemallow	1 gal	61
	Tecoma stans var. angustata Yellow Bells	5 gal	8

CACTI AND ACCENTS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Agave potatorum Petite Blue Agave	5 gal 2'-6" W	10
	Agave schidigera Curly Edge Agave	5 gal 2' W	18
	Carnegiea gigantea Saguaro	4' spear	3
	Echinocereus engelmannii Hedgehog Cactus	5 spear min.	3
	Ferocactus wislizenii Fishhook Barrel	1' min. H	9
	Hesperaloe nocturna Night-blooming Hesperaloe	5 gal	57
	Pachycereus marginatus Mexican Fence Post	3 spear min. 3' H	5
	Yucca rostrata Blue Yucca	5 gal 3' H min.	2
	Yucca pallida Paleleaf Yucca	5 gal	26



PLANTING PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

44 OF 71

REF. L-PLP03 SCALE: 1"=20'-0"

PLAN NO. I-2008-027

DRWN. BY C. MARSHALL
DSGN. BY C. MARSHALL
CHKD. BY L. RIBES

CITY OF TUCSON

747930
LISA JANE RIBES
REGISTERED LANDSCAPE ARCHITECT
STATE OF ARIZONA, U.S.A.
EXPIRES 6/30/2011

NO.	DATE	REVISION	BY	CHKD.	APPR.

ALL DIMENSIONS UNLESS OTHERWISE NOTED
 DATE: 07/20/08 08:58:18 PM
 PLOT: 1000_S01_S01.dwg

PLANT SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Acacia smallii Sweet Acacia	N/A	31
	Acacia smallii Sweet Acacia	Existing	
	Acacia smallii Sweet Acacia	'Sierra Sweet' seedless	11
	Chilopsis linearis Desert Willow	'Warren Jones'	5

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper	3
	Eysenhardtia orthocarpa Kidneywood	5' H x 2.5' W Low Branch/Multi	
	Olneya tesota Desert Ironwood	min. size: 1.5 in. caliper	10
	Olneya tesota Desert Ironwood	'AZT' or approved salvaged specimen	
	Parkinsonia floridum Blue Palo Verde	min. size: 1.5 in. caliper	42
	Parkinsonia floridum Blue Palo Verde	approved salvaged specimens acceptable	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Prosopis glandulosa Texas Honey Mesquite	min. size: 1.5 in. caliper	27
	Prosopis glandulosa Texas Honey Mesquite	'Maverick'	
	Prosopis glandulosa Texas Honey Mesquite	7' H x 3.5' W Low Branch Standard	
	Sophora secundiflora Mountain Laurel	min. size: 1.25 in. caliper	5
	Sophora secundiflora Mountain Laurel	5' H x 2.5' W Low Branch/Multi	

GENERAL NOTES

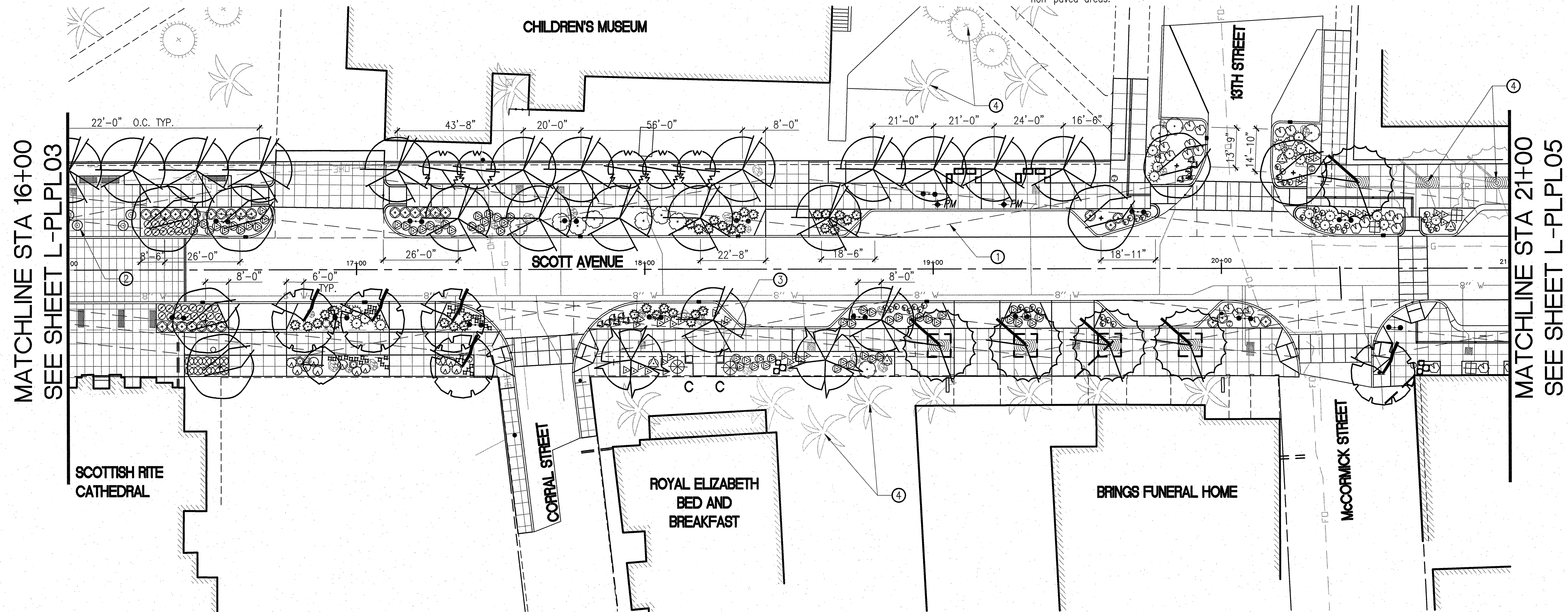
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- Amend all soil in planting area prior to installing plants. Refer to Specifications and Sheet L-PLDT03.
- Refer to Detail 8, Sheet L-PLDT02 for plants in containers.
- Refer to Details 5 and 6, Sheet L-PLDT02 for tree layout dimensions.
- Refer to Civil Drawings for demolition of existing vegetation. Refer to Specifications for protection of existing trees to remain.
- Place screened rock/crushed concrete mixture in all planting and non-paved areas.

KEYNOTES

- Sight Visibility Triangle. Refer to Civil Drawings.
- Concrete Planter. Refer to Hardscape plans and planting details.
- Steel Planter. Refer to Hardscape plans and planting details.
- Existing vegetation to remain.
- Tree Grates. Refer to Hardscape Plans.

NOTE

Refer to Details 5 and 6 Sheet L-PLDT02 for Tree Layout. Locate trees as shown on plan. Final tree location to be staked and approved by Landscape Architect.



SHRUBS

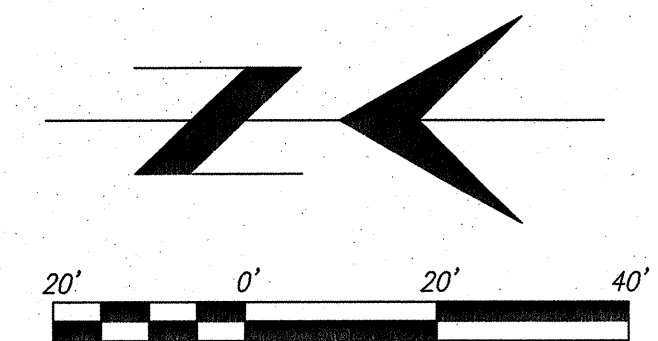
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	Baileya multiradiata Desert Marigold	1 gal	104
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	98
	Dalea formosa Feather Dalea	1 gal	116
	Encelia farinosa Brittlebush	1 gal	35
	Ericameria laricifolia Turpentine Bush	5 gal	67
	Larrea tridentata Creosote Bush	5 gal	6
	Leucophyllum laevigatum Chihuahuan Sage	5 gal	22
	Melampodium leucanthum Blackfoot Daisy	1 gal	88

SHRUBS

SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Parthenium incanum Mariola	1 gal	92
	Penstemon sp. Penstemon	1 gal	36
	Plumbago scandens Native Plumbago	1 gal	30
	Psilostrophe cooperi Paperflower	1 gal	65
	Salvia chamaedryoides Blue Sage	1 gal	113
	Simmondsia chinensis Jojoba	5 gal	11
	Sphaeralcea ambigua Globemallow	1 gal	61
	Tecoma stans var. angustata Yellow Bells	5 gal	8

CACTI AND ACCENTS

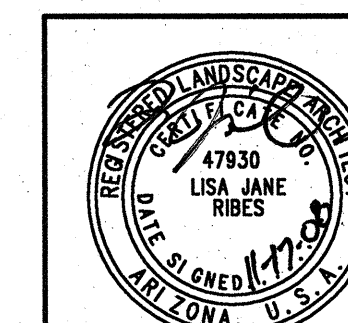
SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Agave potatorum Petite Blue Agave	5 gal 2'-6" W	10
	Agave schidigera Curly Edge Agave	5 gal 2' W	18
	Carnegiea gigantea Saguaro	4' spear	3
	Echinocereus engelmannii Hedgehog Cactus	5 spear min.	3
	Ferocactus wislizenii Fishhook Barrel	1' min. H	9
	Hesperaloe nocturna Night-blooming Hesperaloe	5 gal	57
	Pachycereus marginatus Mexican Fence Post	3 spear min. 3' H	5
	Yucca rostrata Blue Yucca	5 gal 3' H min.	2
	Yucca pallida Paleleaf Yucca	5 gal	26



PLANTING PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

45
OF
71



DRWN. BY	R. MANDERHAN
DSGN. BY	R. MANDERHAN, L.D., C.M.P., C.C.
CHKD. BY	R. MANDERHAN

REF.	L-PLPL04	SCALE:	1"=20'-0"
PLAN NO.	I-2008-027		

NO.	DATE	REVISION	BY	CHKD.	APPR.

EXPRES 6/30/2011

PLANT SCHEDULE

TREES

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Acacia smallii Sweet Acacia	N/A	31
	Existing		
	Acacia smallii Sweet Acacia	min. size: 1.5 in. caliper	11
	'Sierra Sweet' seedless	7' H x 3.5' W Standard Trunk	
	Chilopsis linearis Desert Willow	min. size: 1.5 in. caliper	5
	'Warren Jones'	7' H x 3.5' W Standard Trunk	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Eysenhardtia orthocarpa Kidneywood	min. size: 1.25 in. caliper	3
		5' H x 2.5' W Low Branch/Multi	
	Olneya tesota Desert Ironwood	min. size: 1.5 in. caliper	10
	'AZT' or approved salvaged specimen	7' H x 3.5' W Low Branch Standard	
	Parkinsonia floridum Blue Palo Verde	min. size: 1.5 in. caliper	42
	approved salvaged specimens acceptable	7' H x 3.5' W Low Branch Standard	

SYMBOL	BOTANICAL NAME COMMON NAME	REMARKS	QUANTITY
	Prosopis glandulosa Texas Honey Mesquite	min. size: 1.25 in. caliper	27
	'Maverick'	7' H x 3.5' W Low Branch Standard	
	Sophora secundiflora Mountain Laurel	min. size: 1.25 in. caliper	5
		5' H x 2.5' W Low Branch/Multi	

GENERAL NOTES

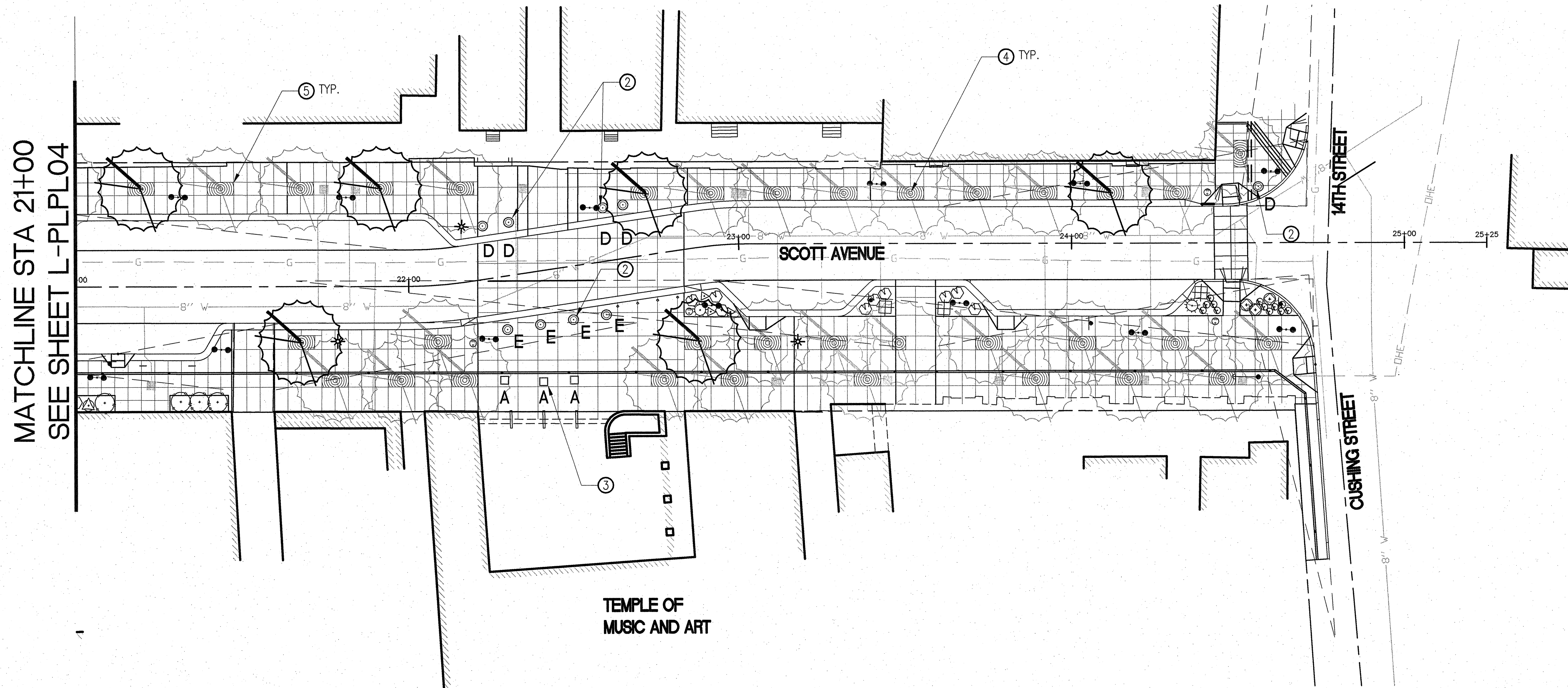
- Contractor is responsible to verify all plant quantities. The plant list is intended as a reference only. Quantities shown are for Scott Ave. project limits from Broadway Blvd. to 14th St.
- "Low Branch Standard" is defined as a tree with more than one main trunk, breaking more than 12" above soil line. "Multi Trunk" is defined as a tree with more than one main trunk originating at or near soil line.
- 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.
- Refer to Sheets L-HSPL03 and L-HSPL04 for Microbasin locations.
- Amend all soil in planting area prior to installing plants. Refer to Specifications and Sheet L-PLDT03.
- Refer to Detail B, Sheet L-PLDT02 for plants in containers.
- Refer to Details 5 and 6, Sheet L-PLDT02 for tree layout dimensions.
- Refer to Civil Drawings for demolition of existing vegetation. Refer to Specifications for protection of existing trees to remain.
- Place screened rock/crushed concrete mixture in all planting and non-paved areas.

KEYNOTES

- Sight Visibility Triangle. Refer to Civil Drawings.
- Concrete Planter. Refer to Hardscape plans and planting details.
- Steel Planter. Refer to Hardscape plans and planting details.
- Existing vegetation to remain.
- Tree Grates. Refer to Hardscape Plans.

NOTE

Refer to Details 5 and 6 Sheet L-PLDT02 for Tree Layout. Locate trees as shown on plan. Final tree location to be staked and approved by Landscape Architect.



SHRUBS

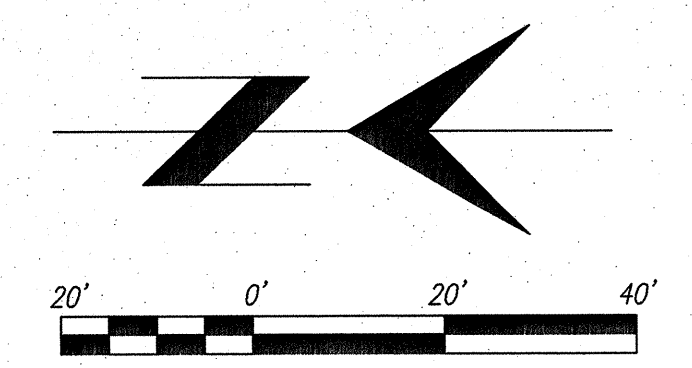
SYMBOL	BOTANICAL NAME COMMON NAME	CONTAINER SIZE	QUANTITY
	Aloysia wrightii Oregonillo	5 gal	5
	Baileya multiradiata Desert Marigold	1 gal	104
	Calliandra eriophylla Sonoran Fairy Duster	5 gal	98
	Dalea formosa Feather Dalea	1 gal	116
	Encelia farinosa Brittlebush	1 gal	35
	Ericameria laricifolia Turpentine Bush	5 gal	67
	Larrea tridentata Creosote Bush	5 gal	6
	Leucophyllum laevigatum Chihuahuan Sage	5 gal	22
	Melampodium leucanthum Blackfoot Daisy	1 gal	88

SHRUBS

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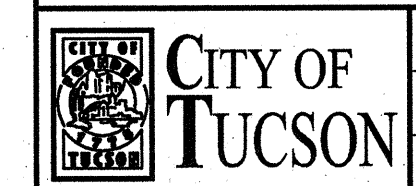
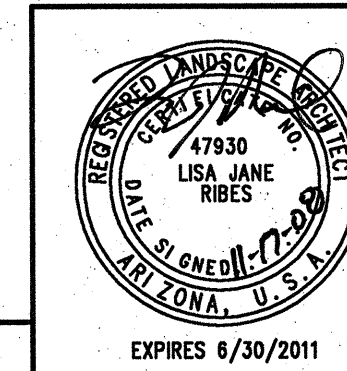
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PLANTING PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

46
OF
71



DRWN. BY	C. MARSHALL
DSGN. BY	C. MARSHALL
CHKD. BY	L. RIBES

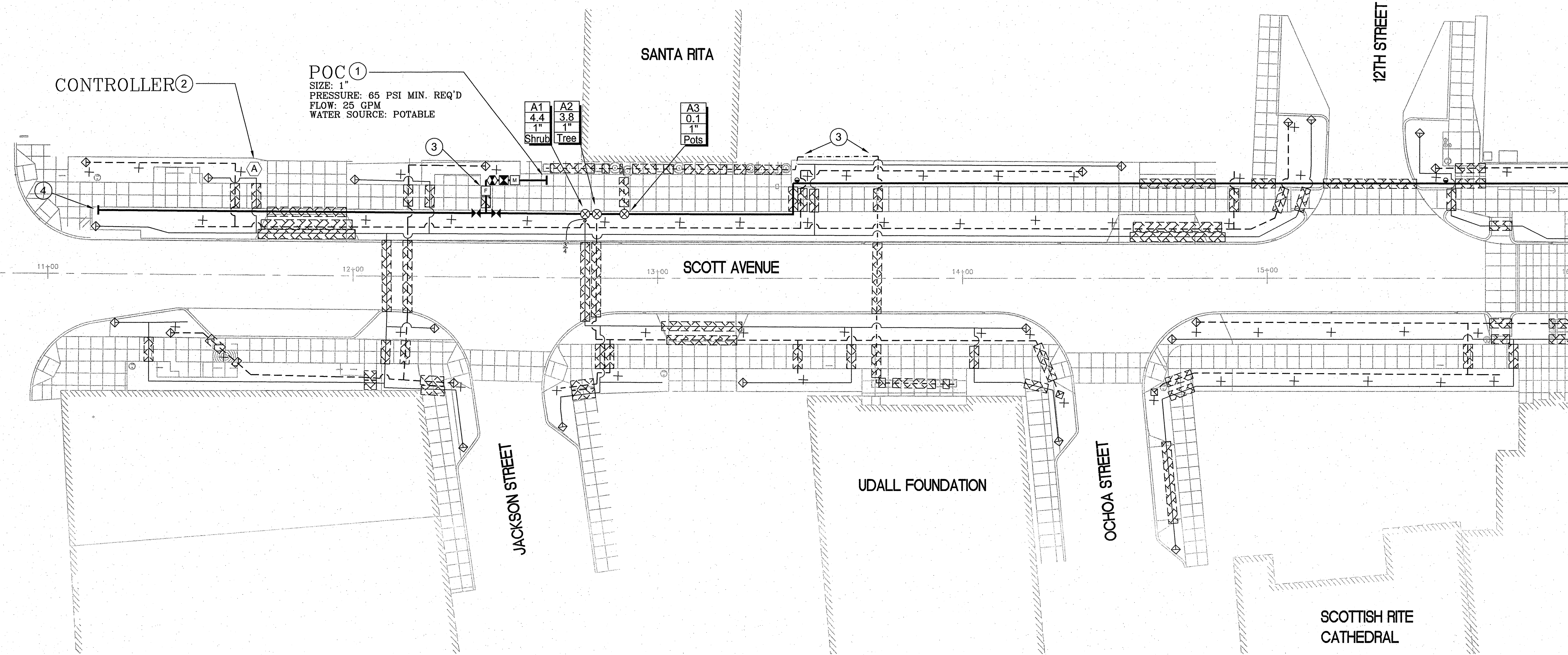
REF.	L-PLPL05	SCALE:	1"=20'-0"
PLAN NO.	I-2008-027		

NO.	DATE	REVISION	BY	CHKD.	APPR.

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BEGIN PHASE 1

BROADWAY BOULEVARD



MATCHLINE STA 16+00
SEE SHEET L-IRPL04

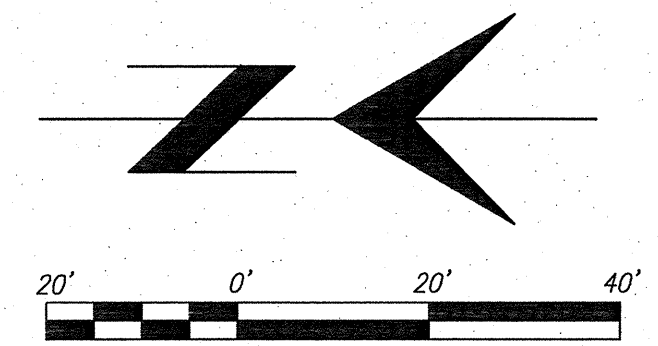
IRRIGATION LEGEND

- 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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 - UNCONNECTED PIPE CROSSING
 - POINT-OF-CONNECTION (P.O.C.) ASSEMBLY
 - 1-INCH WATER METER AND CURB STOP ASSEMBLY
 - 1-INCH BACKFLOW PREVENTION ASSEMBLY (FEBCO)
 - 1-INCH MASTER VALVE ASSEMBLY (BUCKNER)
 - 1-INCH FLOW SENSOR ASSEMBLY (CALSENSE)
 - ISOLATION GATE VALVE ASSEMBLY (GRIBWOLD)
 - QUICK COUPLING VALVE ASSEMBLY (RAINBIRD)
 - REMOTE CONTROL VALVE ASSEMBLY FOR DRIP LATERALS (RAINBIRD)
 - FLUSH CAP ASSEMBLY
 - CALSENSE 1000-S MOISTURE SENSOR
 - MOISTURE SENSOR CONTROL WIRE (14AUG)
 - IRRIGATION CONTROLLER UNIT. CONTROLLER A: CALSENSE ET2000e-48-LR: 11 STA. USED
- A1** INDICATES CONTROLLER AND STATION NUMBER
2.5 INDICATES LATERAL DISCHARGE (GPM)
1" INDICATES VALVE SIZE (INCHES)
+ INDICATES PLANT MATERIAL TO BE IRRIGATED
+ APPROXIMATE TREE LOCATIONS

CONSTRUCTION NOTES

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- 2 PEDESTAL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
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Two working days before you dig
CALL FOR THE BLUE STAKES
1-800-782-5348
Blue Stake Center
CALL COLLECT

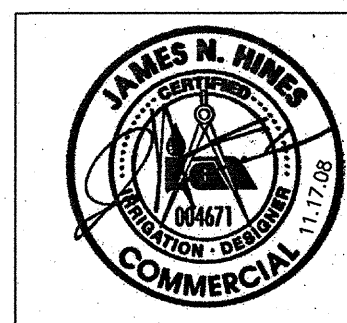
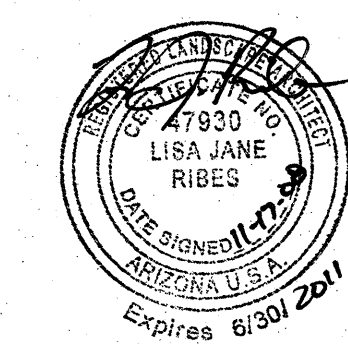


IRRIGATION PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14TH ST. STREETSCAPE PROJECT

47
OF
71

	DRWN. BY	MWH	REF. L-IRPL03 SCALE: 1"=20'-0" PLAN NO. I-2008-027
	DSGN. BY	MWH	
	CHKD. BY	JNH	



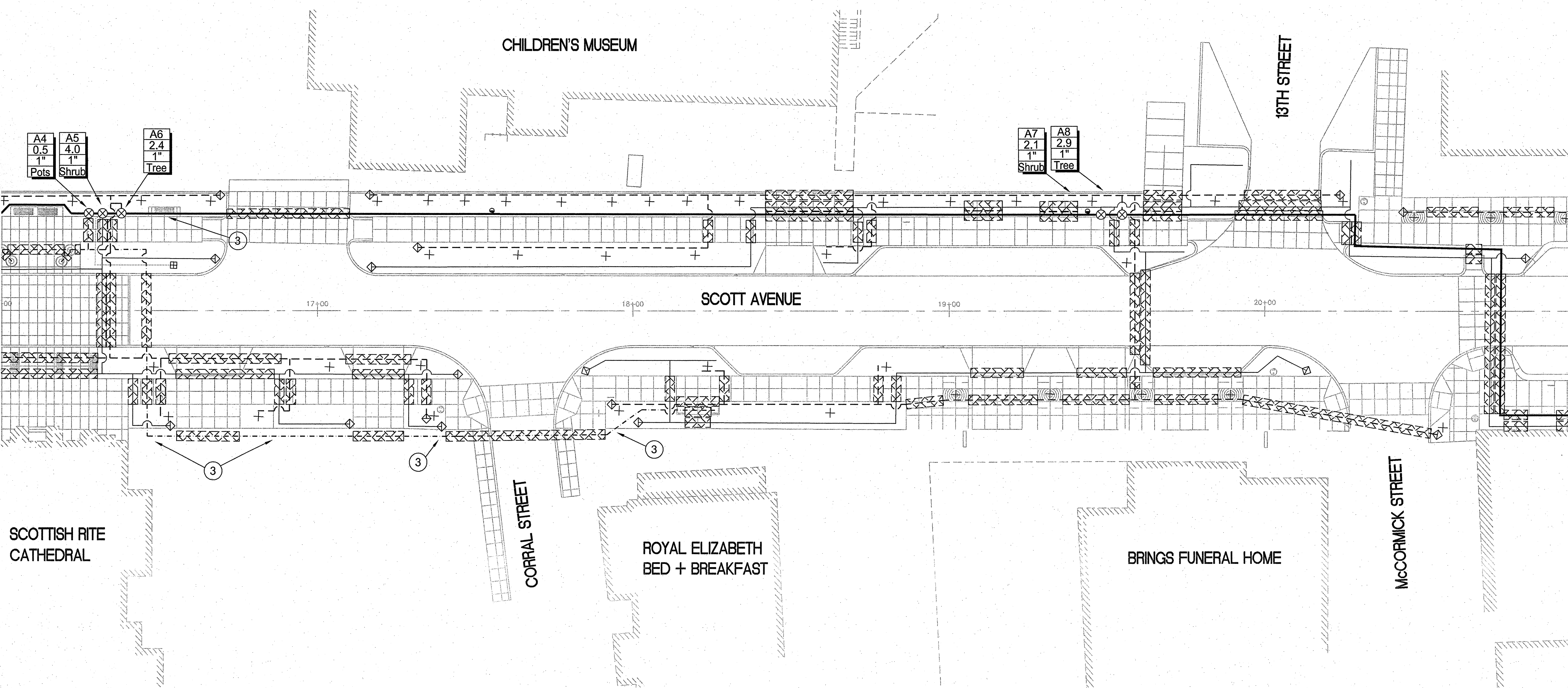
NO.	DATE	REVISION	BY	CHKD.	APPR.

Expires: 12/2010

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SEE SHEET L-IRPLO3

MATCHLINE STA 21+00
SEE SHEET L-IRPLO5



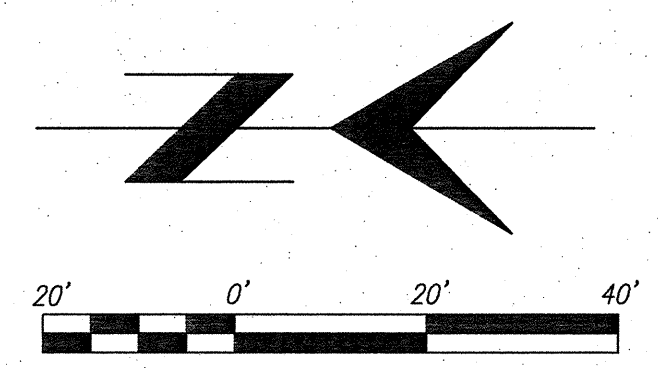
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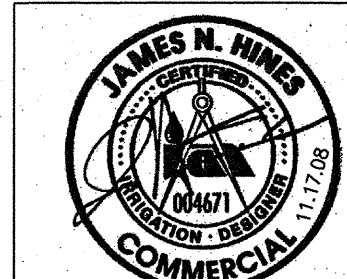
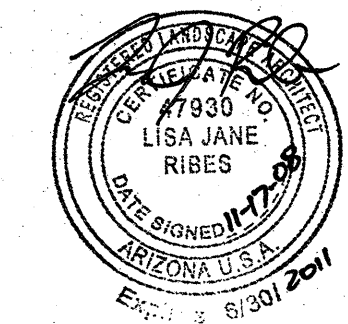


IRRIGATION PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

48
OF
71

DRWN. BY	MWH	REF.	L-IRPL04	SCALE:	1"=20'-0"
DSGN. BY	MWH				
CHKD. BY	JNH	PLAN NO.	I-2008-027		

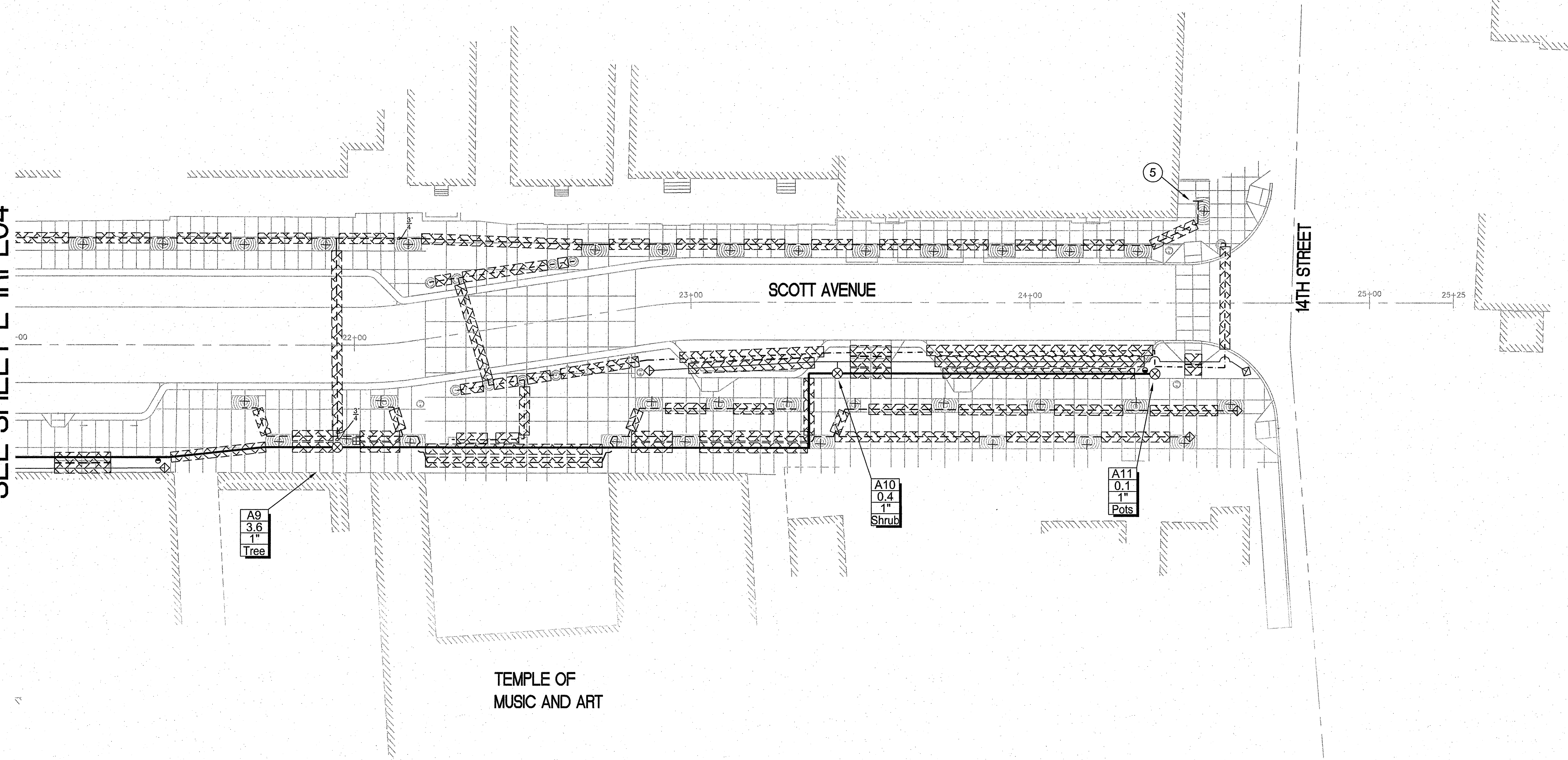


Expires: 12/2010

NO.	DATE	REVISION	BY	CHKD.	APPR.

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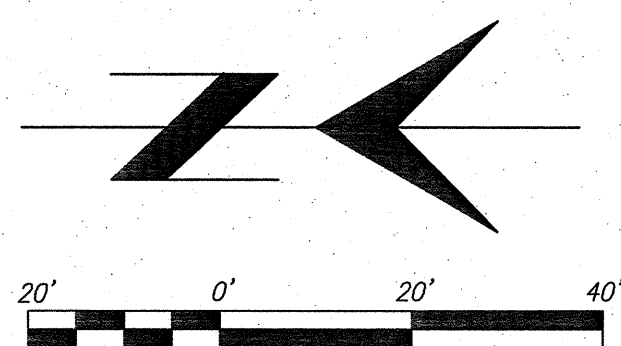
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IRRIGATION PLANS

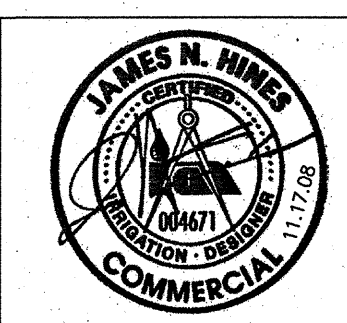
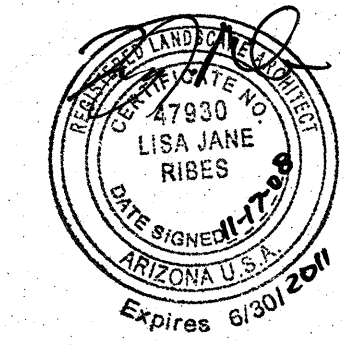
**DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14TH ST. STREETSCAPE PROJECT**

CITY OF TUCSON

DRWN. BY MWH
DSGN. BY MWH
CHKD. BY JNH

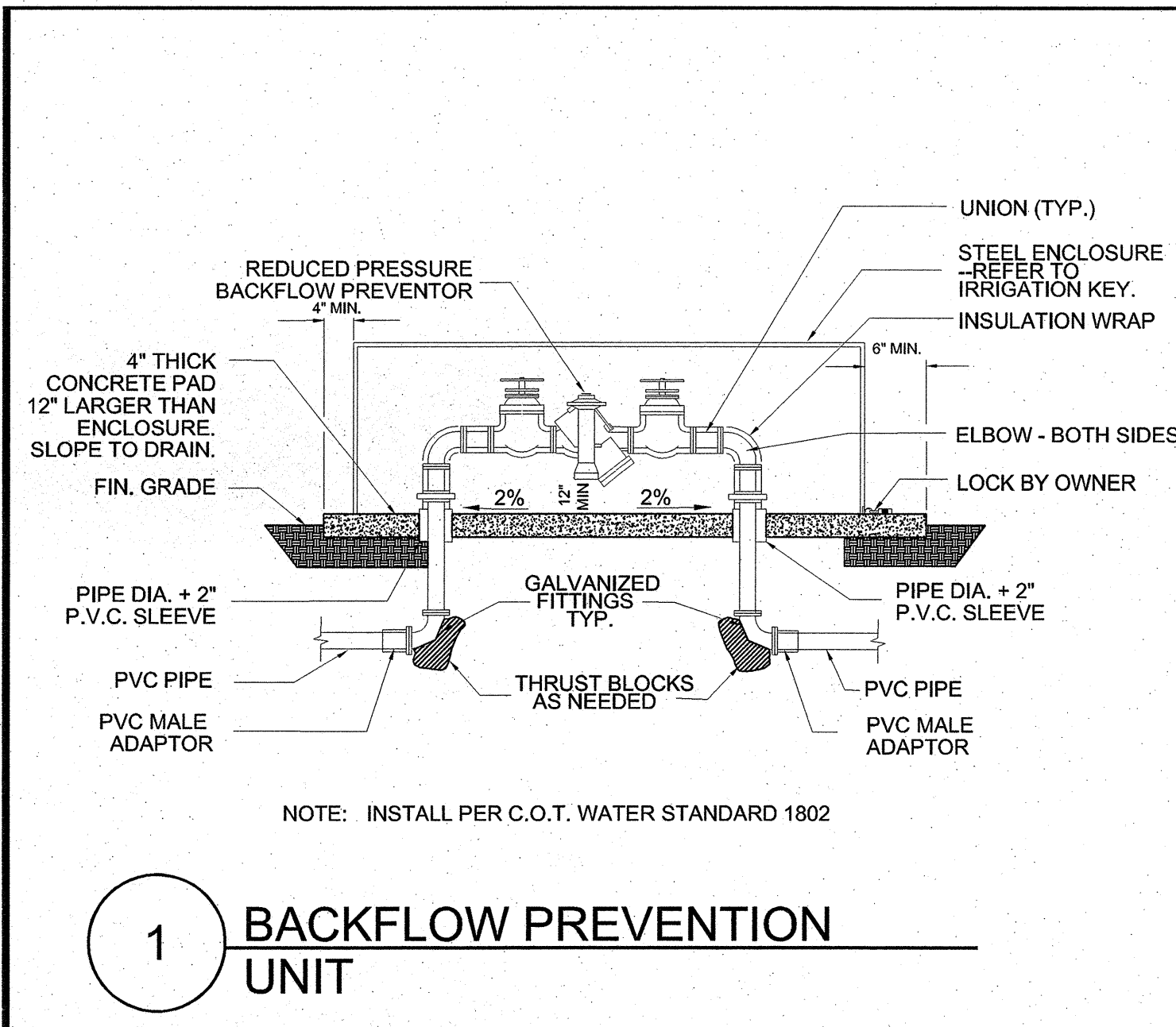
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PLAN NO. I-2008-027

49 OF 71

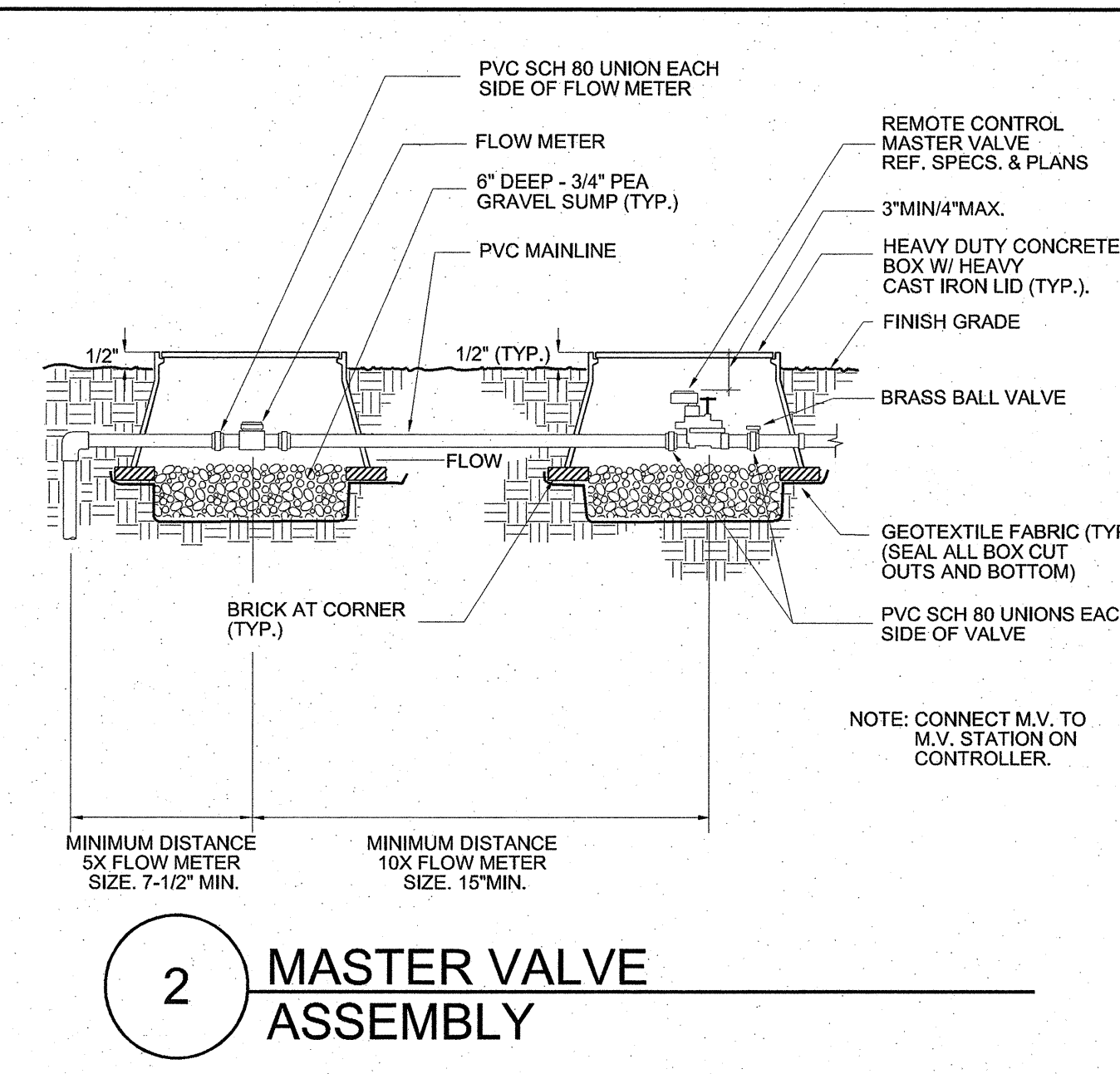


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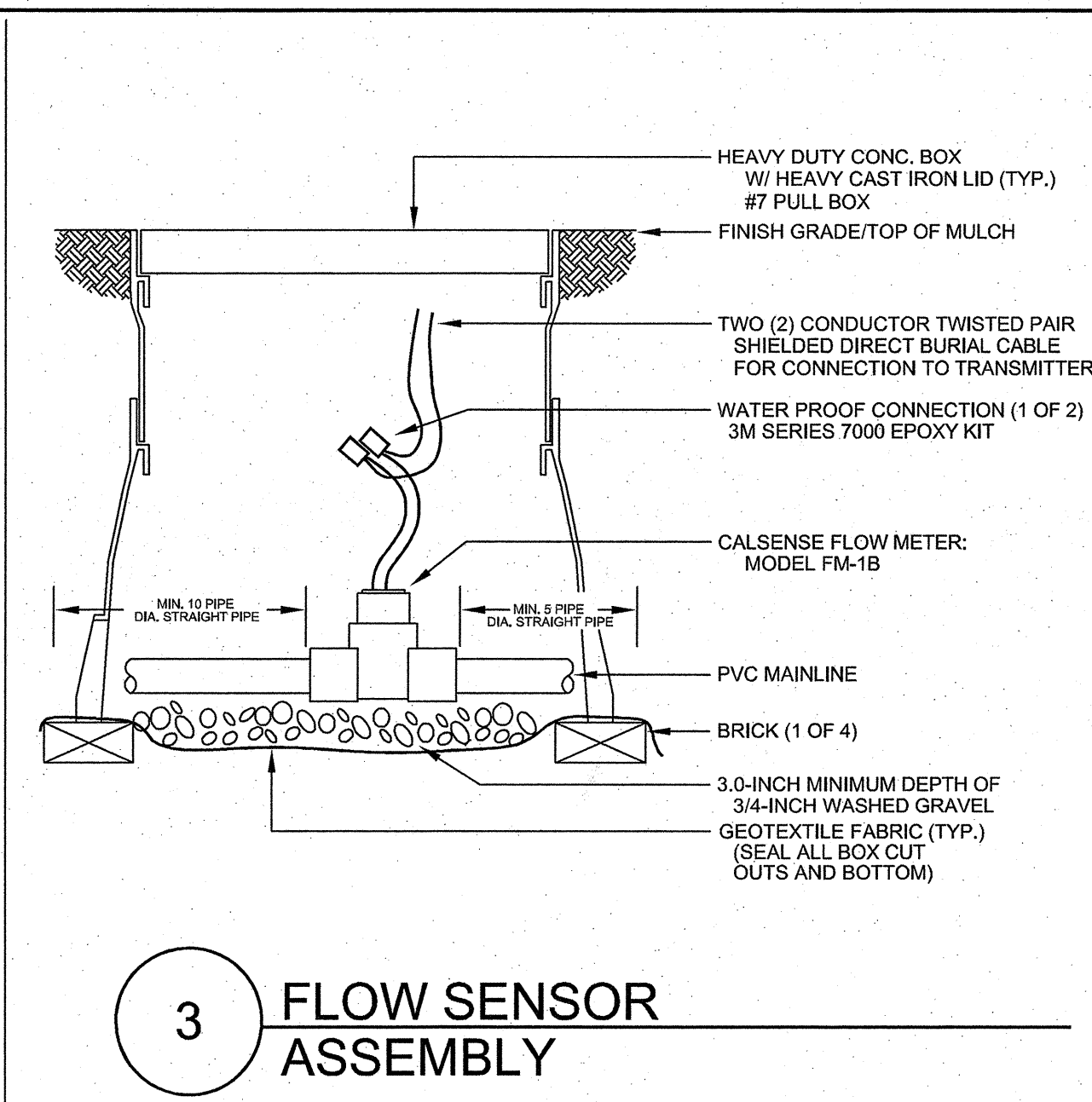
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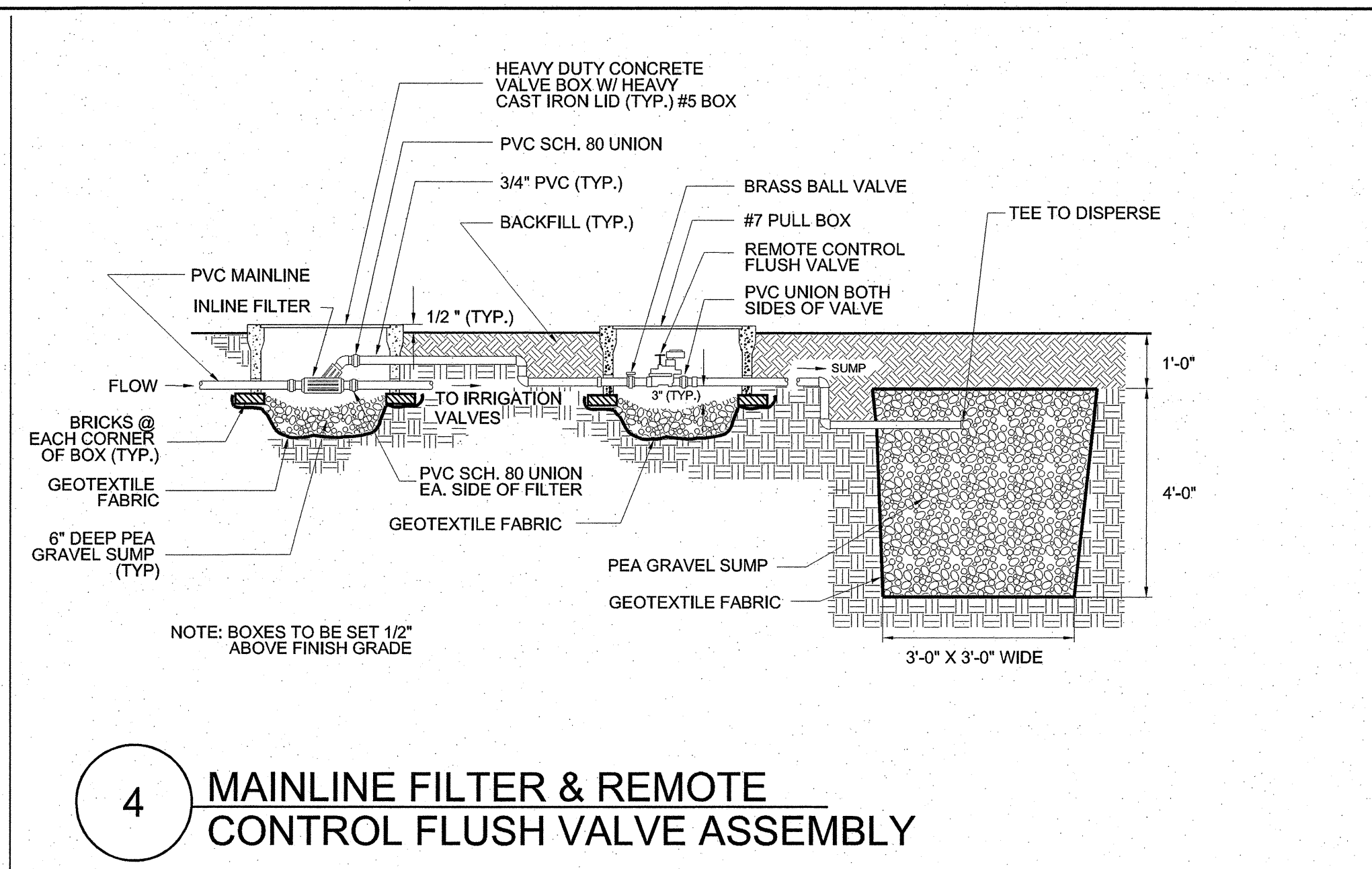
1 BACKFLOW PREVENTION UNIT



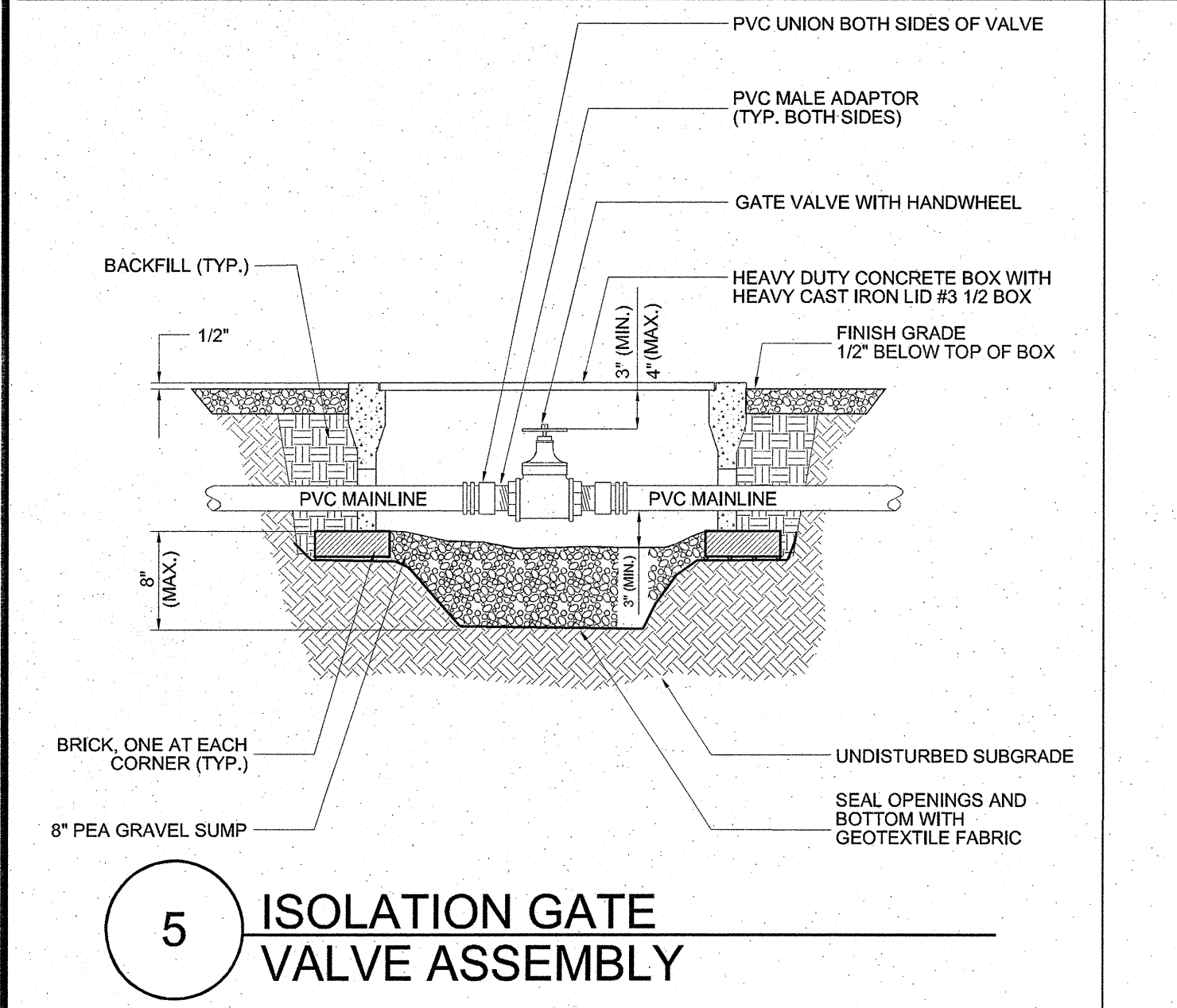
2 MASTER VALVE ASSEMBLY



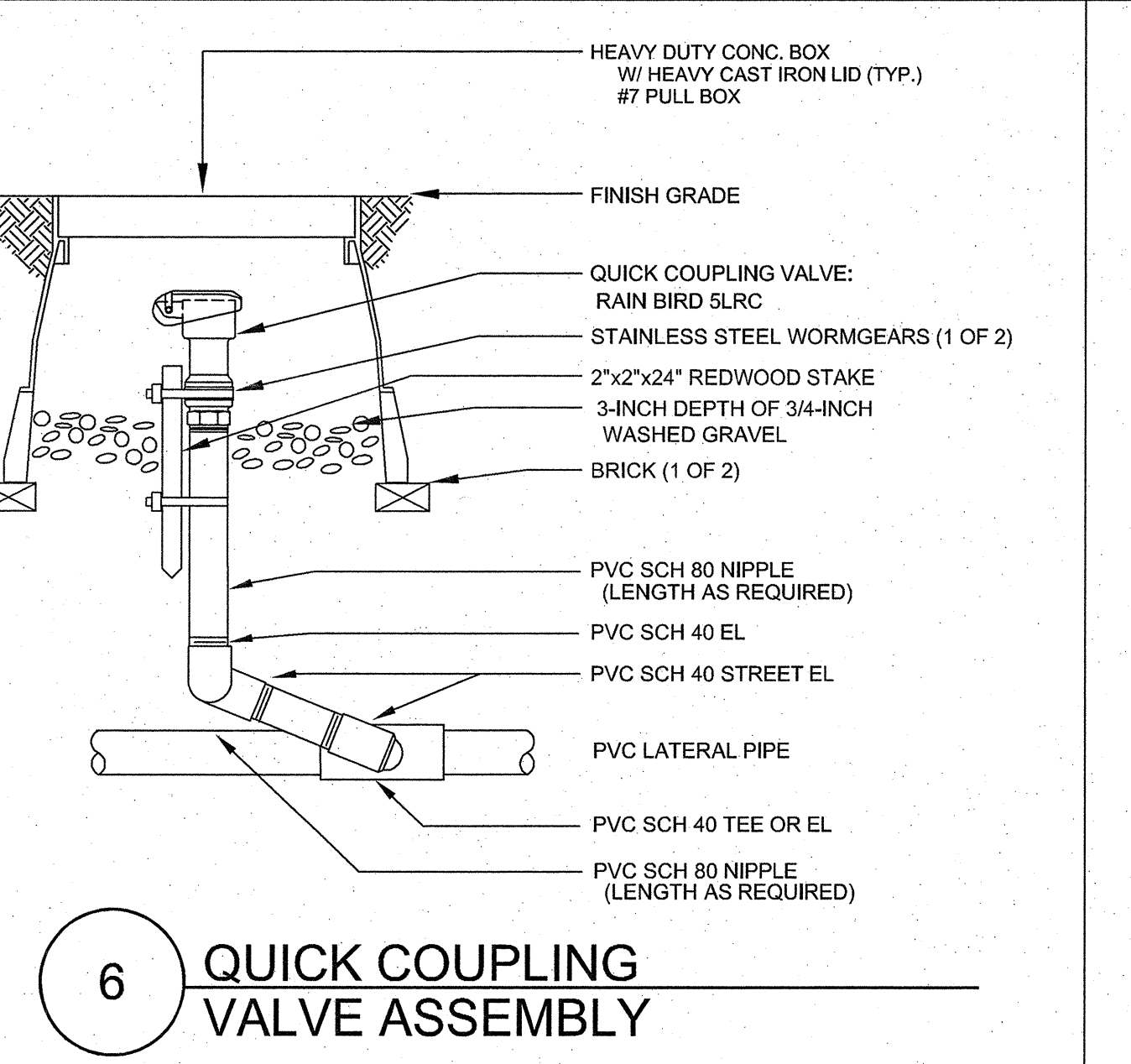
3 FLOW SENSOR ASSEMBLY



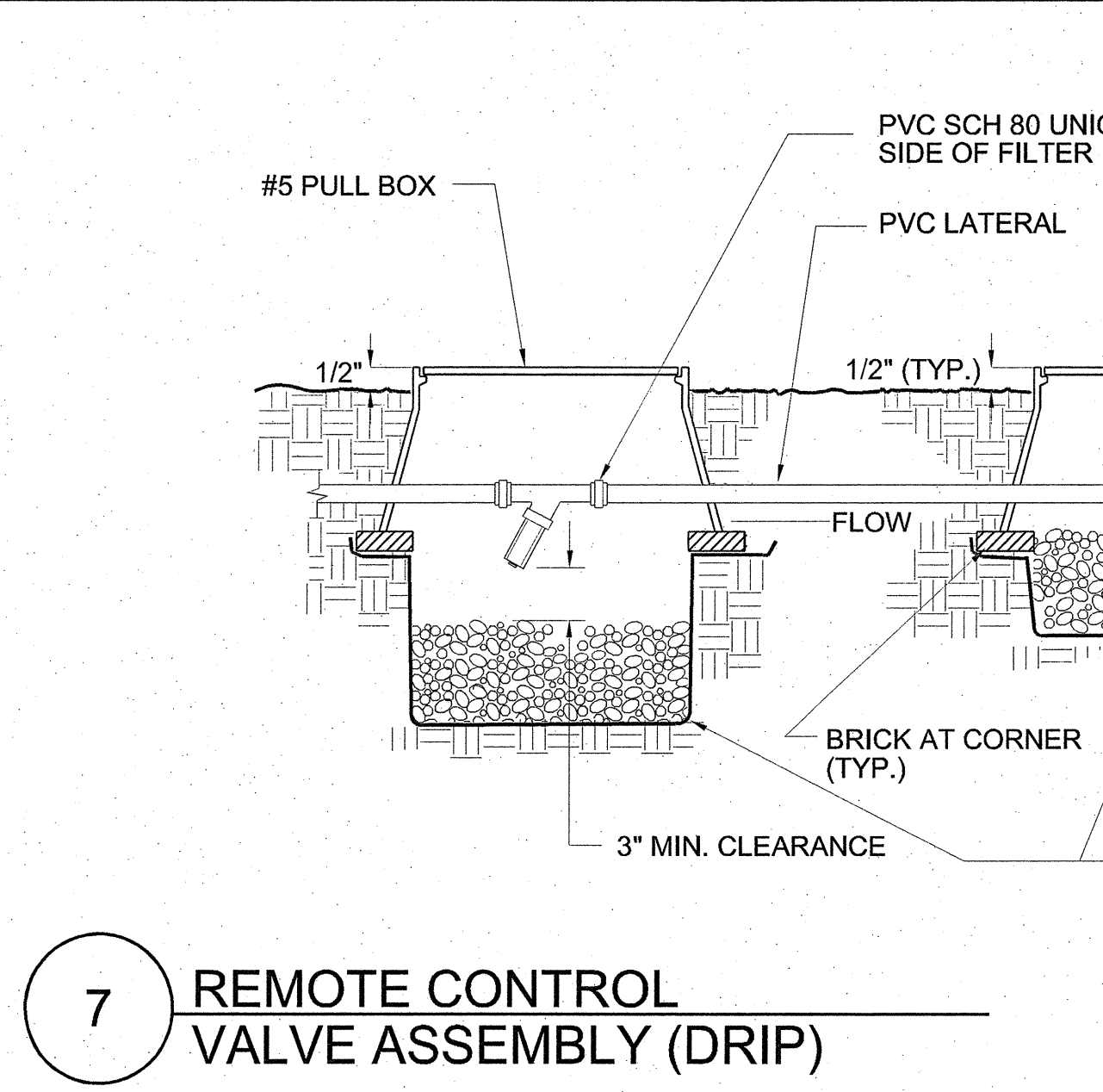
4 MAINLINE FILTER & REMOTE CONTROL FLUSH VALVE ASSEMBLY



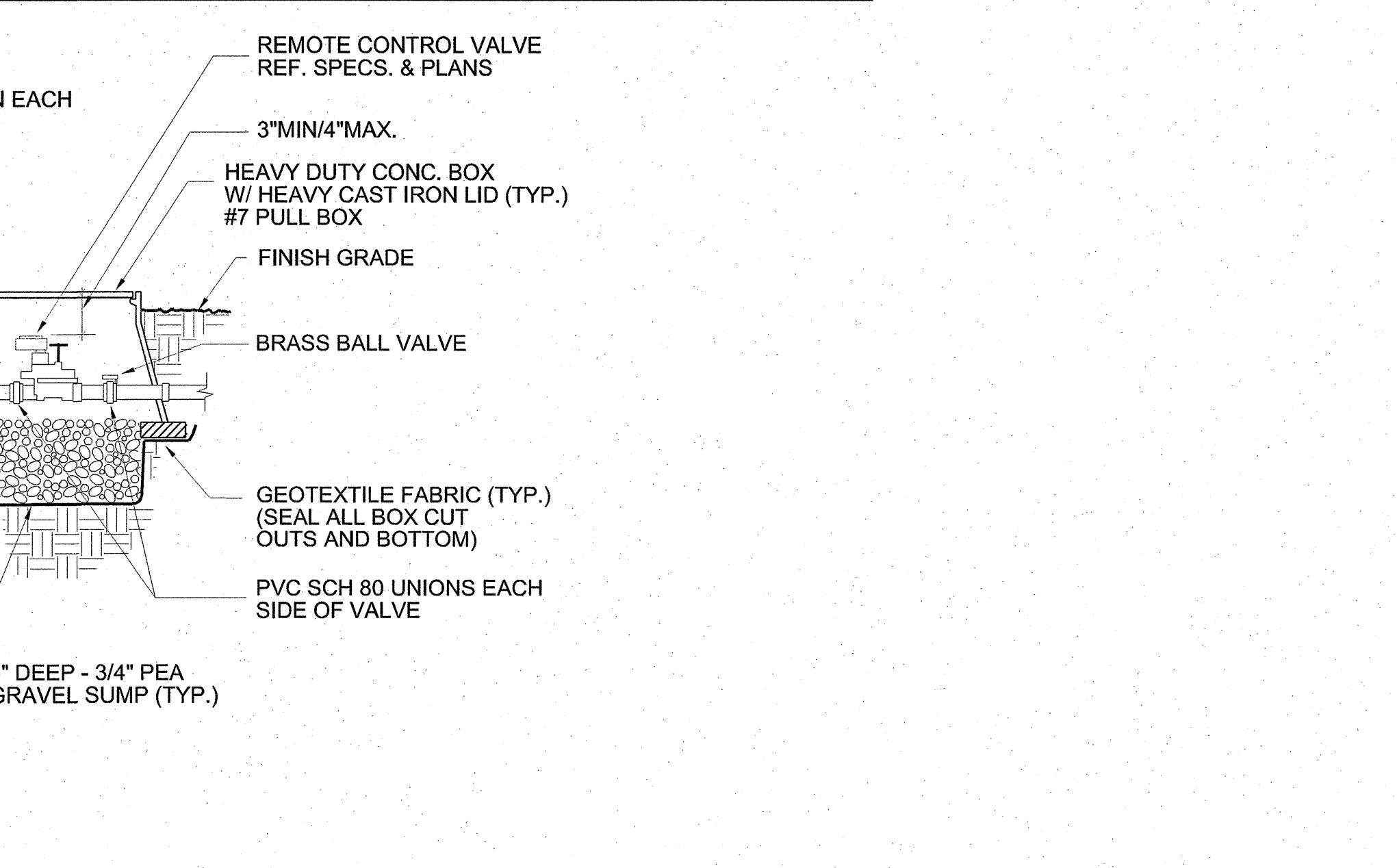
5 ISOLATION GATE VALVE ASSEMBLY



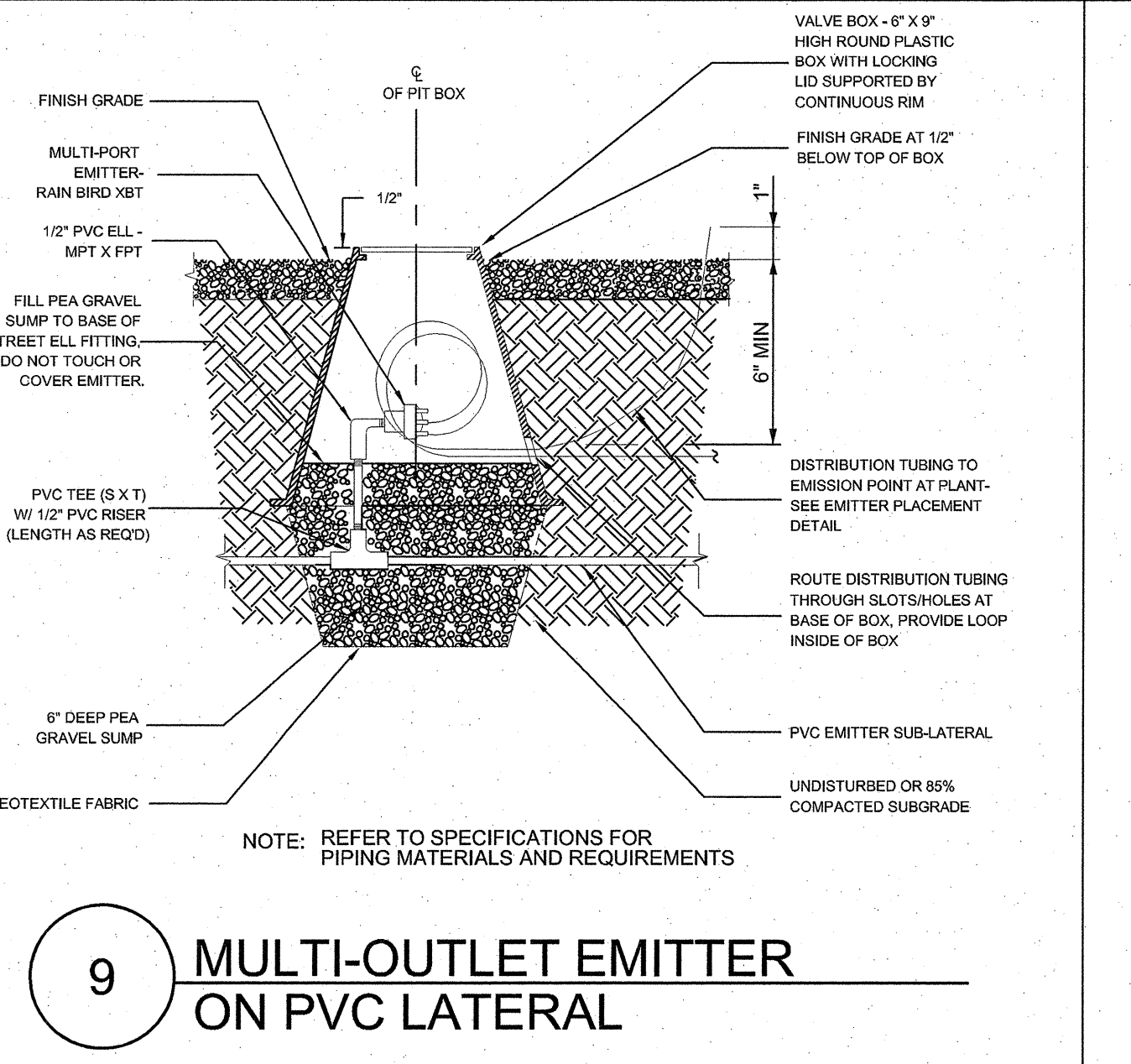
6 QUICK COUPLING VALVE ASSEMBLY



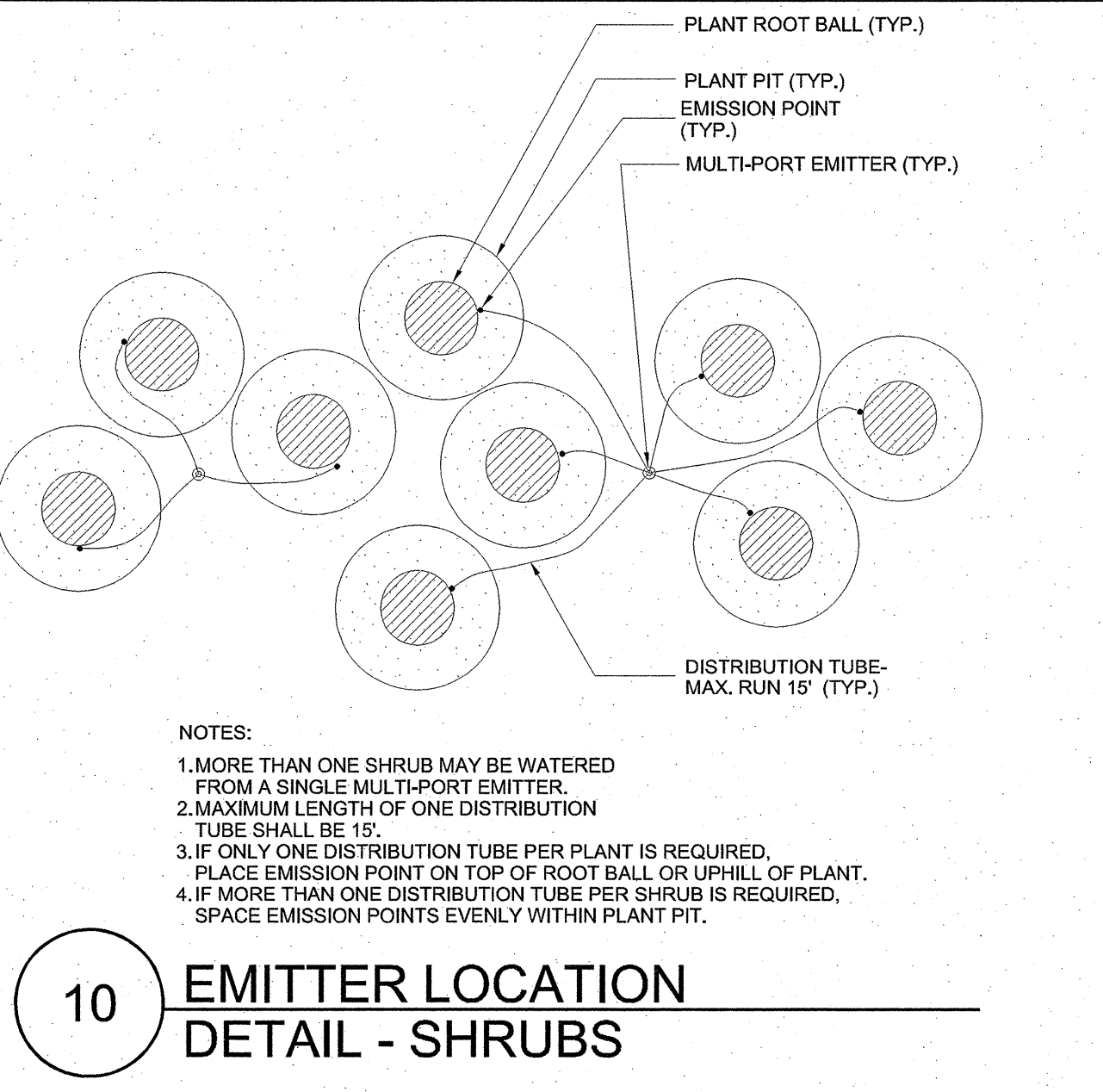
7 REMOTE CONTROL VALVE ASSEMBLY (DRIP)



8 PRESSURE REGULATOR RISER ASSEMBLY



9 MULTI-OUTLET EMITTER ON PVC LATERAL



10 EMITTER LOCATION DETAIL - SHRUBS

IRRIGATION DETAILS

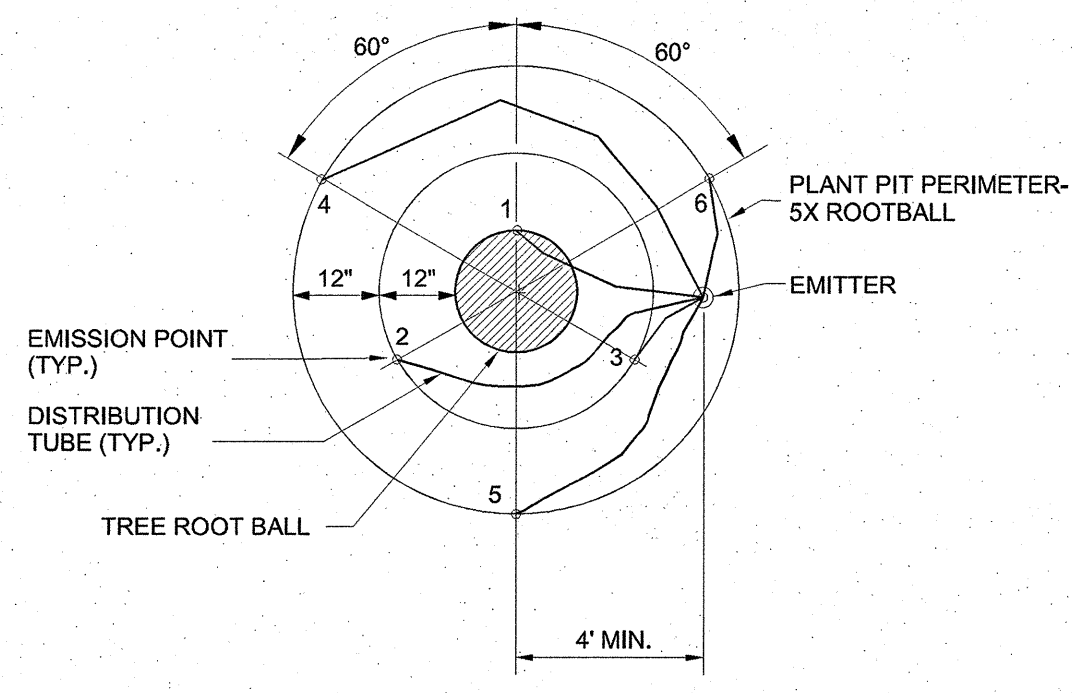
JAMES N. HINES
REGISTERED PROFESSIONAL ENGINEER
NO. 12471
COMMERCIAL

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

DRWN. BY	MWH	REF. L-IRDT01	SCALE: NTS
DSGN. BY	MWH		
CHKD. BY	JNH	PLAN NO.	I-2008-027

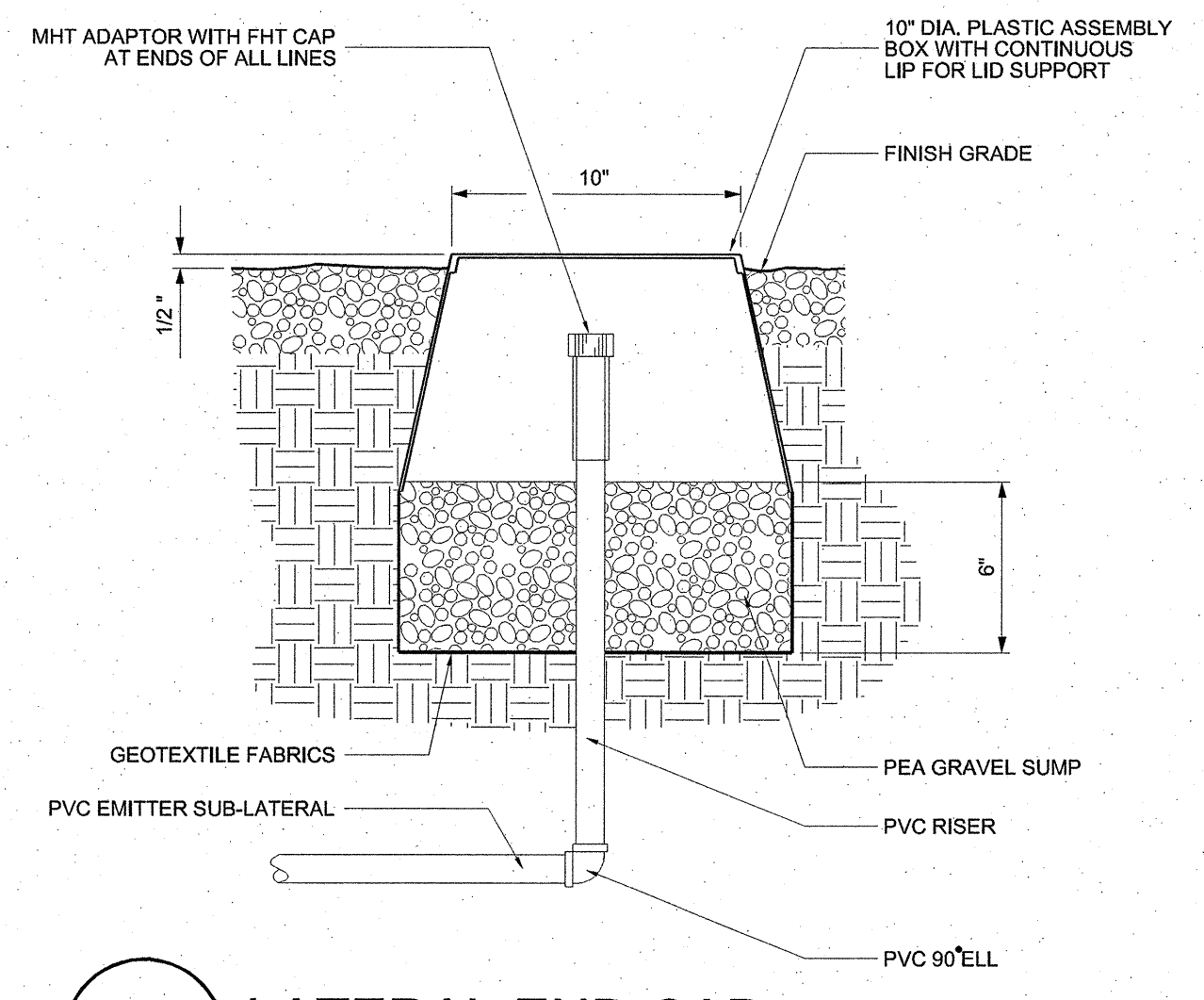
50 OF 71

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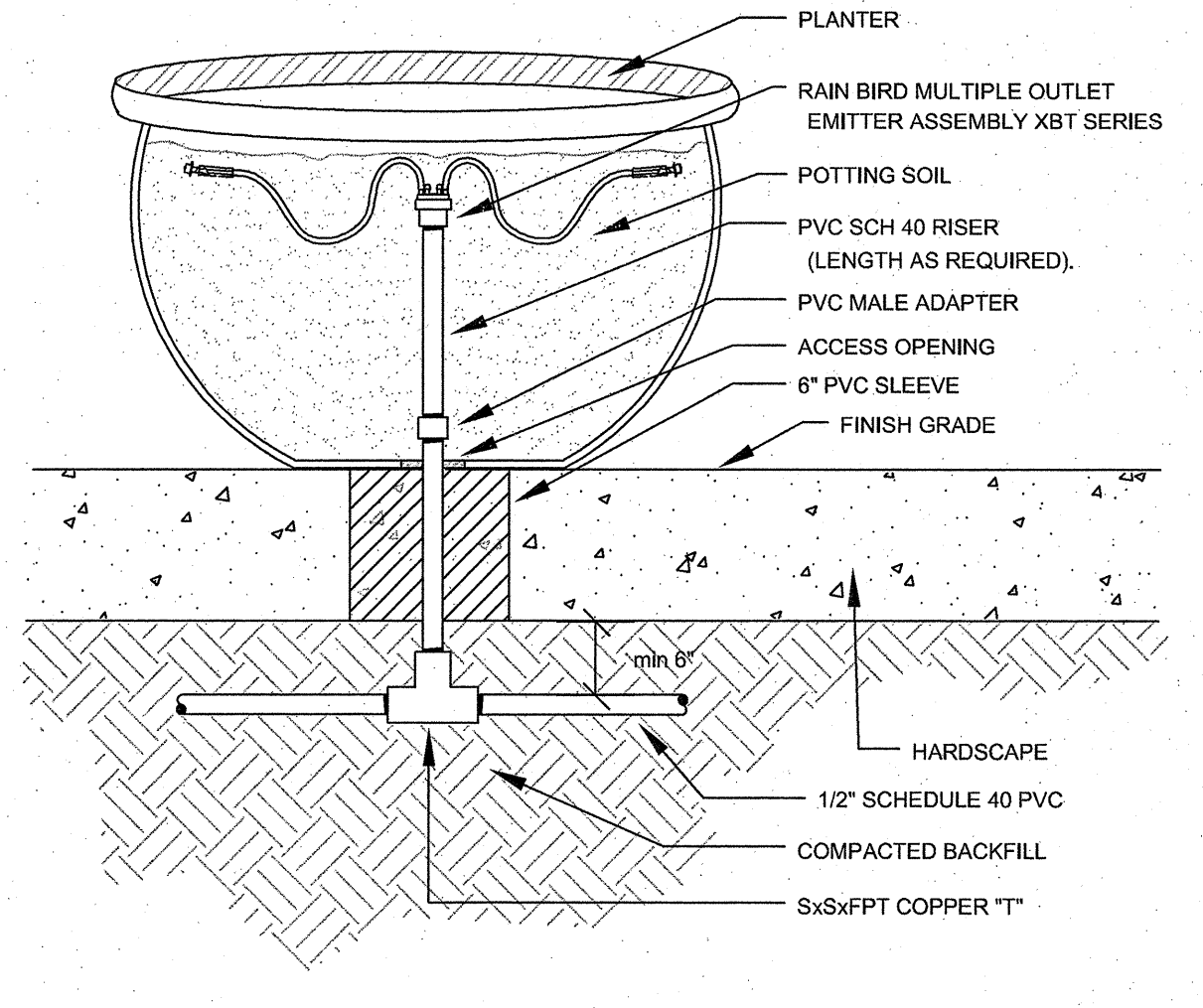


NOTES:
 1. MAXIMUM LENGTH OF ONE DISTRIBUTION TUBE SHALL BE 15'.
 2. EMISSION POINTS ARE NUMBERED IN ORDER OF PLACEMENT (1-6).
 3. ALWAYS PLACE NUMBER ONE EMITTER UPHILL OF TREE.

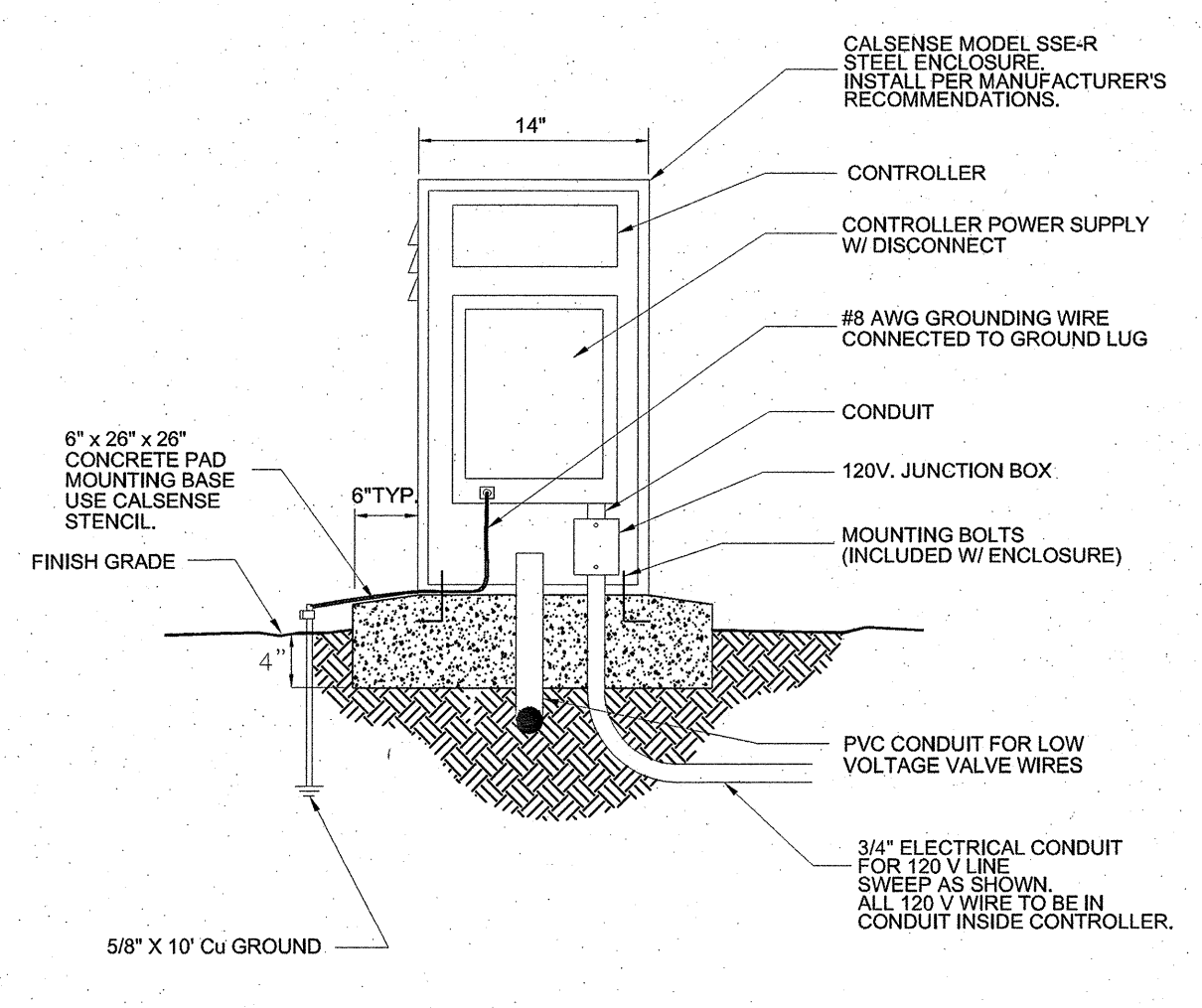
11 EMITTER LOCATION
DETAIL - TREES



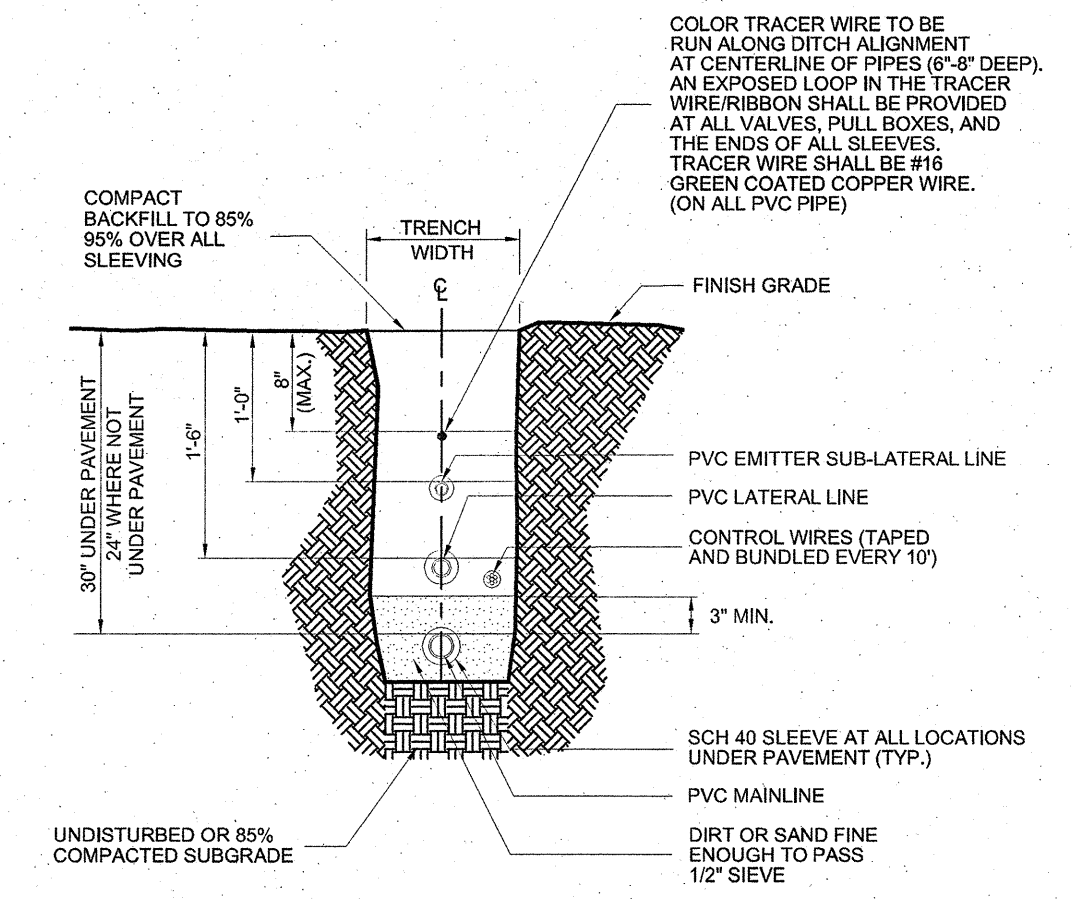
12 LATERAL END CAP
ASSEMBLY



13 POTTED MULTI-OUTLET DRIP
EMITTER ASSEMBLY

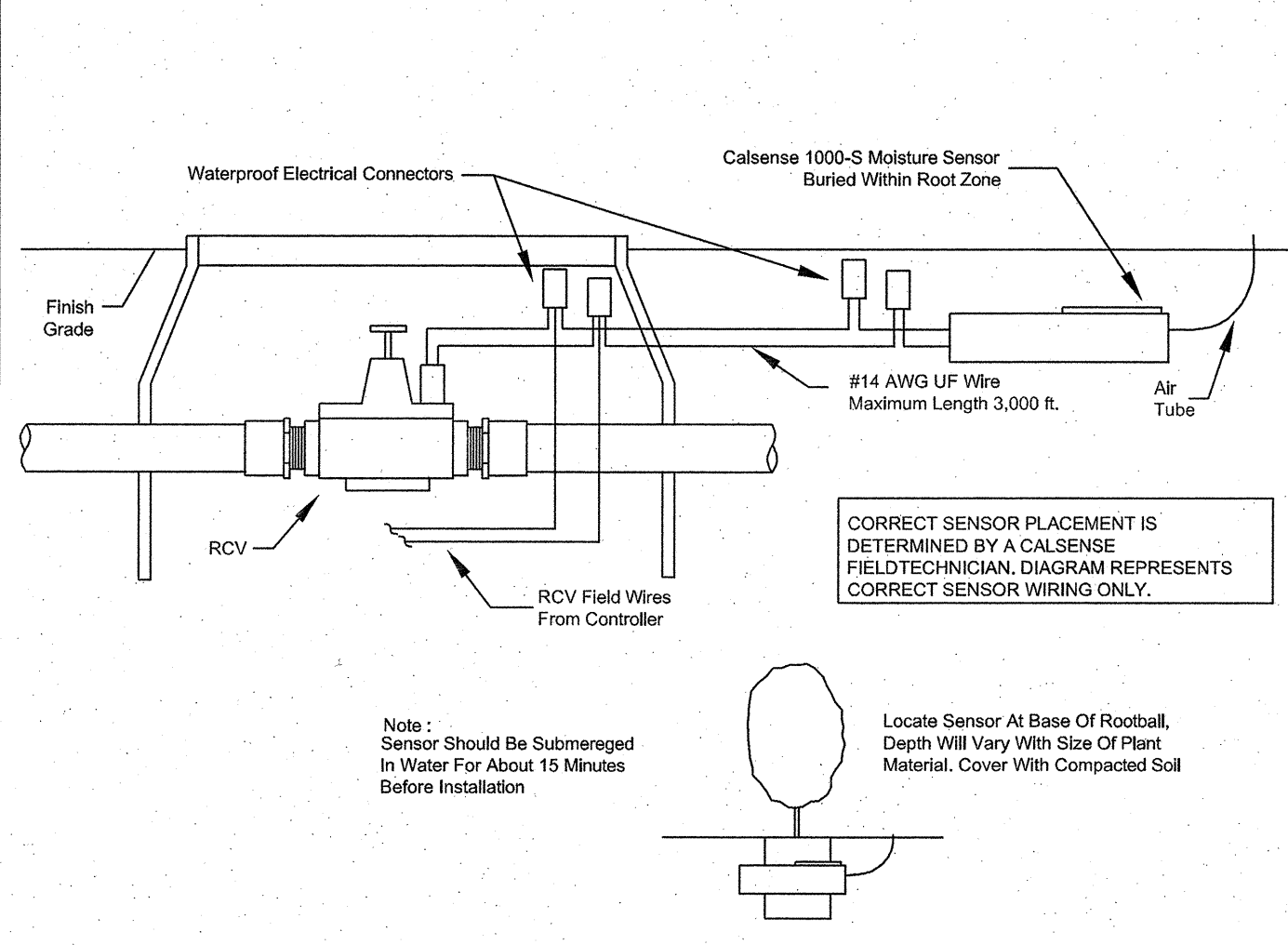


14 CONTROLLER ENCLOSURE
ASSEMBLY



NOTES:
 1. ALL PIPES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. NO PIPE OR WIRE SHALL BE LOCATED UNDER PAVING UNLESS IT IS SLEEVED.

15 TYPICAL TRENCHING
DETAIL

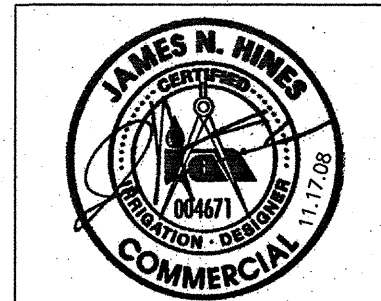
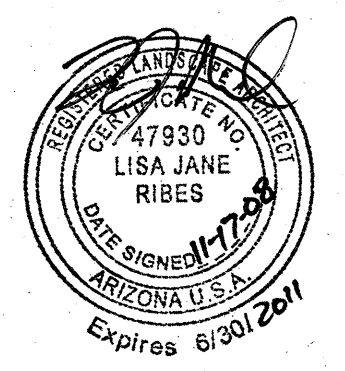


16 MOISTURE SENSOR
SCALE: NTS

INSTALLATION GENERAL NOTES

- 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.
- READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- COORDINATE UTILITY LOCATES ("CALL FOR 'BLUE STAKE'") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 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.
- THE DRAWINGS ARE DIAGNOMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - 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.
 - USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
- PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SEPARATE SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR.
- INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
- THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
- INSTALL TWO (2) #14 AWG CONTROL WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE FOR USE AS SPARES IN CASE OF CONTROL WIRE FAILURE. COIL 3 FEET OF WIRE IN VALVE BOX.

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IRRIGATION DETAILS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		51 OF 71
CITY OF TUCSON	DRWN. BY MWH DSGN. BY MWH CHKD. BY JNH	REF. L-IRDT02 SCALE: NTS PLAN NO. I-2008-027

NO.	DATE	REVISION	BY	CHKD.	APPR.

GENERAL NOTES

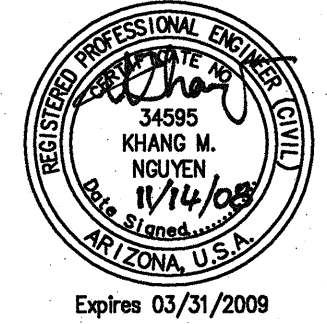
1. ARCHER-WESTERN (AW) SHALL PREPARE TRAFFIC CONTROL PLAN (TCP) IN ACCORDANCE WITH THE LATEST MUTCD AND SUBMIT THEM TO CITY OF TUCSON FOR REVIEW AND APPROVAL.
2. TWO-WAY TRAVEL SHALL BE MAINTAINED IN PHASE 1 CONSTRUCTION AND SOUTHBOUND TRAVEL SHALL BE MAINTAINED IN PHASE 2 CONSTRUCTION. 10' MINIMUM TRAVEL LANES SHALL BE PROVIDED.
3. VERTICAL PANELS SHALL BE INSTALLED TO DELINEATE TRAVEL WAY FROM WORK ZONE.
4. UNLESS APPROVED OTHERWISE BY THE CITY, AW SHALL MAINTAIN: (1) VEHICULAR AND 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.
5. AW SHALL NOT SWITCH TRAFFIC CONTROL TO THE NEXT PHASE OF CONSTRUCTION DURING WORKING HOURS.
6. OPEN TRENCHES SHALL BE COVERED OR SHIELDED DURING NON-CONSTRUCTION HOURS.
7. AW SHALL NOTIFY APPROPRIATE WASTE DISPOSAL COMPANY OF ANY LIMITATION TO ACCESS FOR TRASH PICK-UP.
8. AW SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS, LEGENDS, AND SIGNS PRIOR TO CONSTRUCTION ACTIVITY.
9. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED TO WARN DRIVERS OF LANE SHIFT AT THE SCOTT/BROADWAY INTERSECTION.
10. CONSTRUCTION SHALL NOT BE PERFORMED AT NIGHTS AND ON HOLIDAYS AND WEEKENDS UNLESS APPROVED BY THE CITY IN ADVANCE.
11. SIGNAL OPERATION AT SCOTT/BROADWAY INTERSECTION SHALL BE MAINTAINED AT ALL TIME.

SIDE STREET/DRIVEWAY CLOSURE

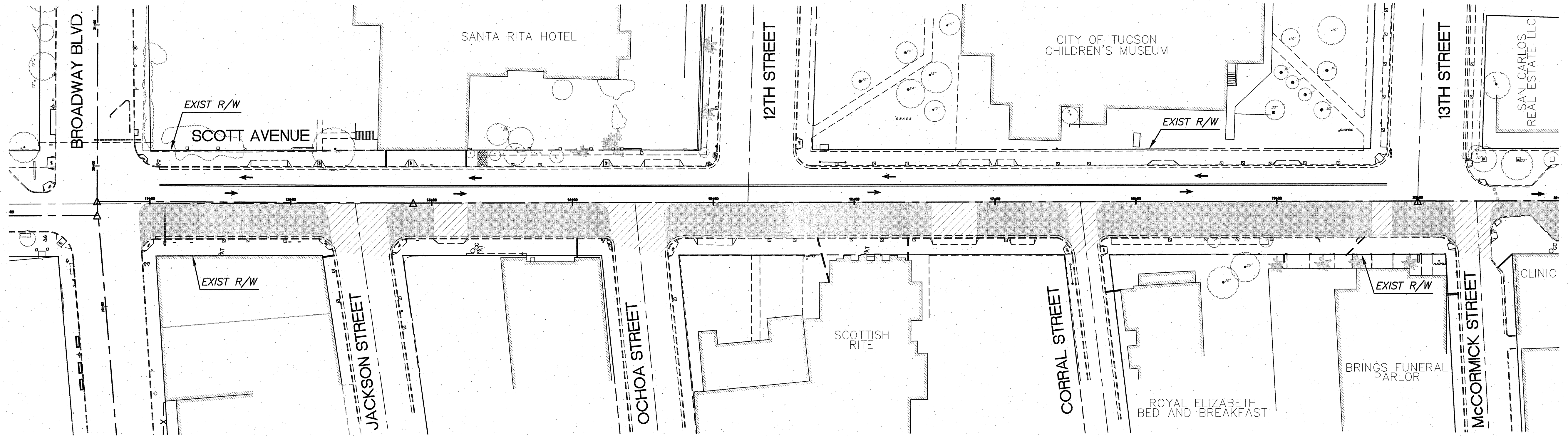
1. DURATION OF COMPLETE CLOSURE SHALL BE MINIMIZED AS MUCH AS POSSIBLE.
2. AW SHALL PREPARE SPECIFIC TRAFFIC CONTROL PLAN FOR EACH CLOSURE AND SUBMIT IT TO CITY OF TUCSON FOR REVIEW AND APPROVAL.
3. AW SHALL NOTIFY CITY COMMUNICATIONS (520-791-4144) AND AFFECTED BUSINESSES A MINIMUM OF FIVE WORKING DAYS 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.

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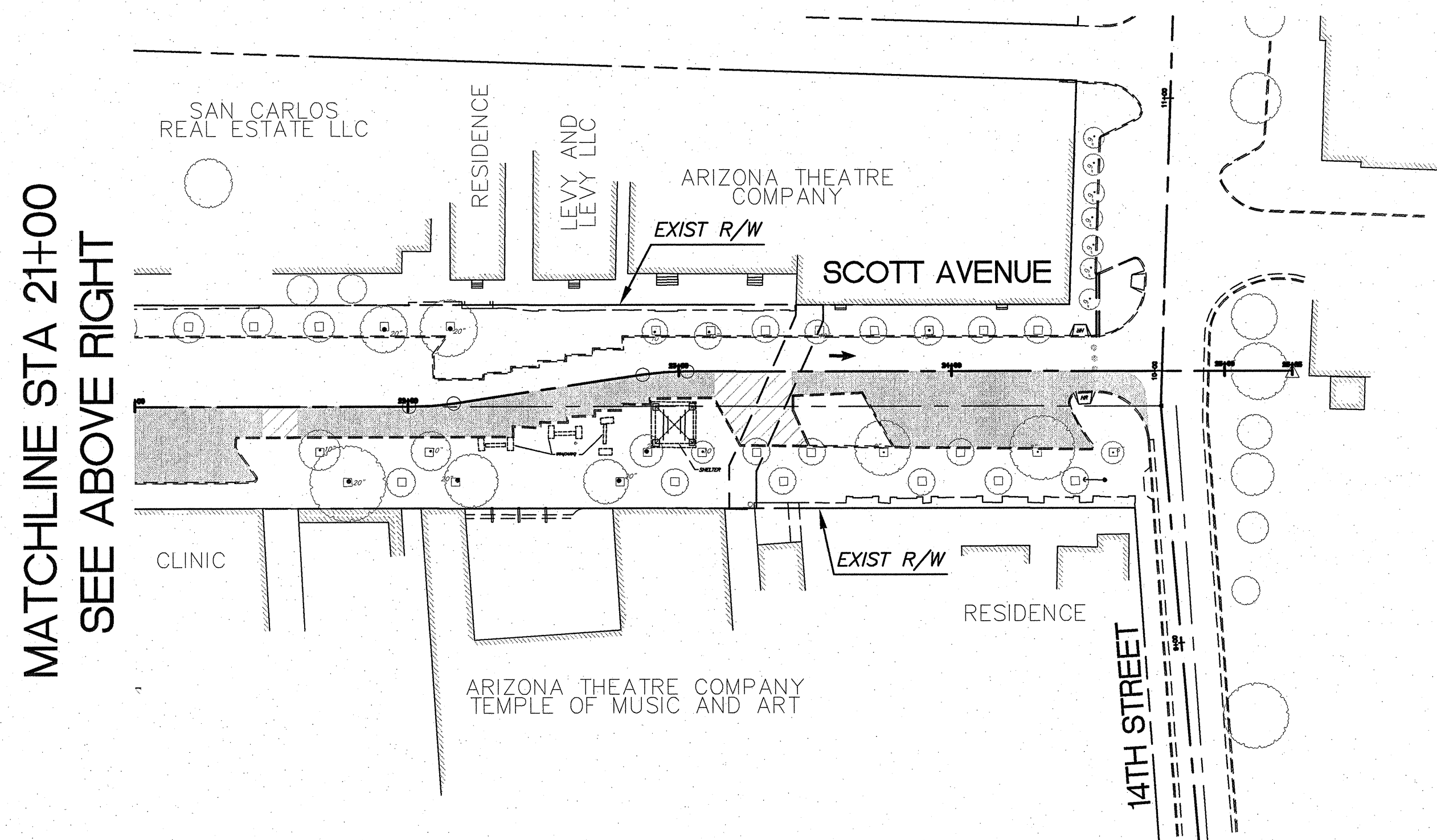
MAINTENANCE OF TRAFFIC NOTES

	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT		52 OF 71
	DRWN. BY T. RADDEMAN DSGN. BY T. RADDEMAN CHKD. BY K. NGUYEN	REF. C-MT01 SCALE: N.T.S. PLAN NO. I-2008-027	
	CITY OF TUCSON		

NO.	DATE	REVISION	BY	CHKD.	APPR.






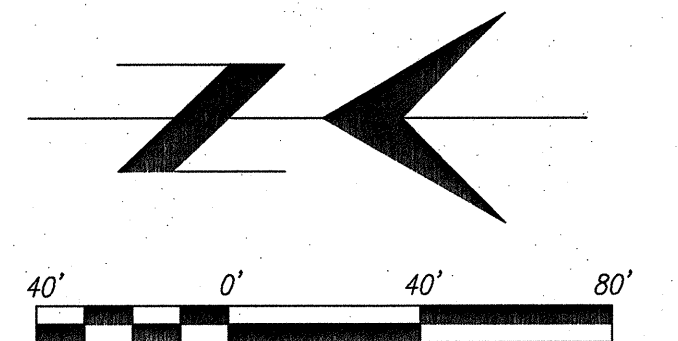
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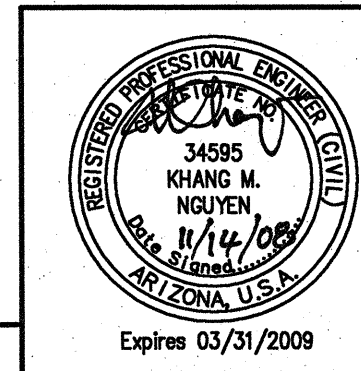
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LEGEND

-  LIMITS OF CONSTRUCTION
-  SHORT-TERM CLOSURE AS NEEDED
-  DIRECTION OF TRAFFIC FLOW



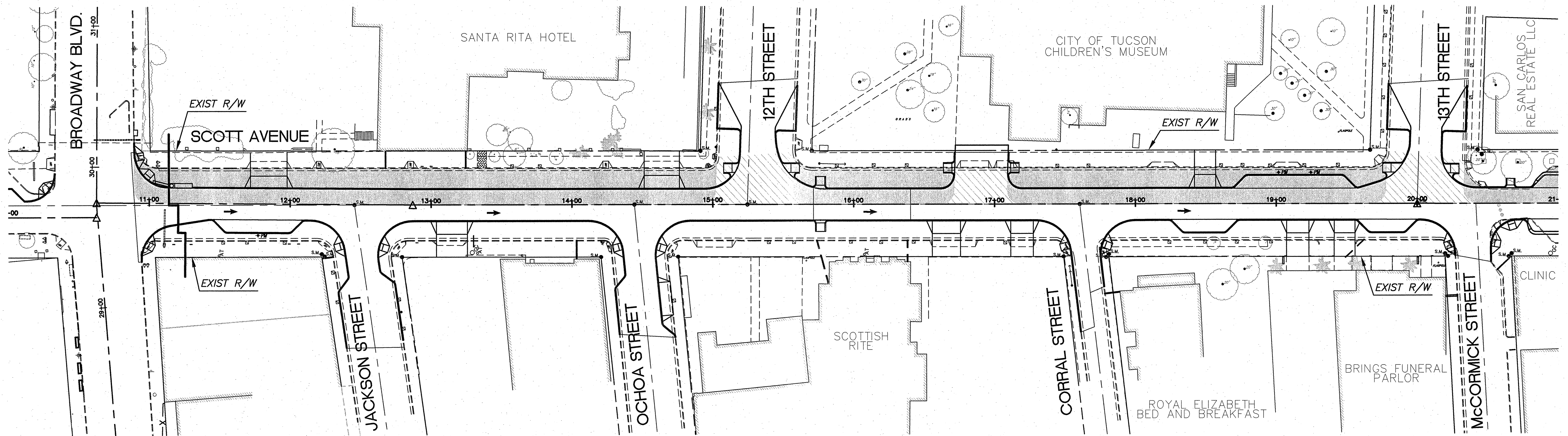
PHASE 1 MAINTENANCE OF TRAFFIC CONCEPTUAL PLAN - WEST SIDE



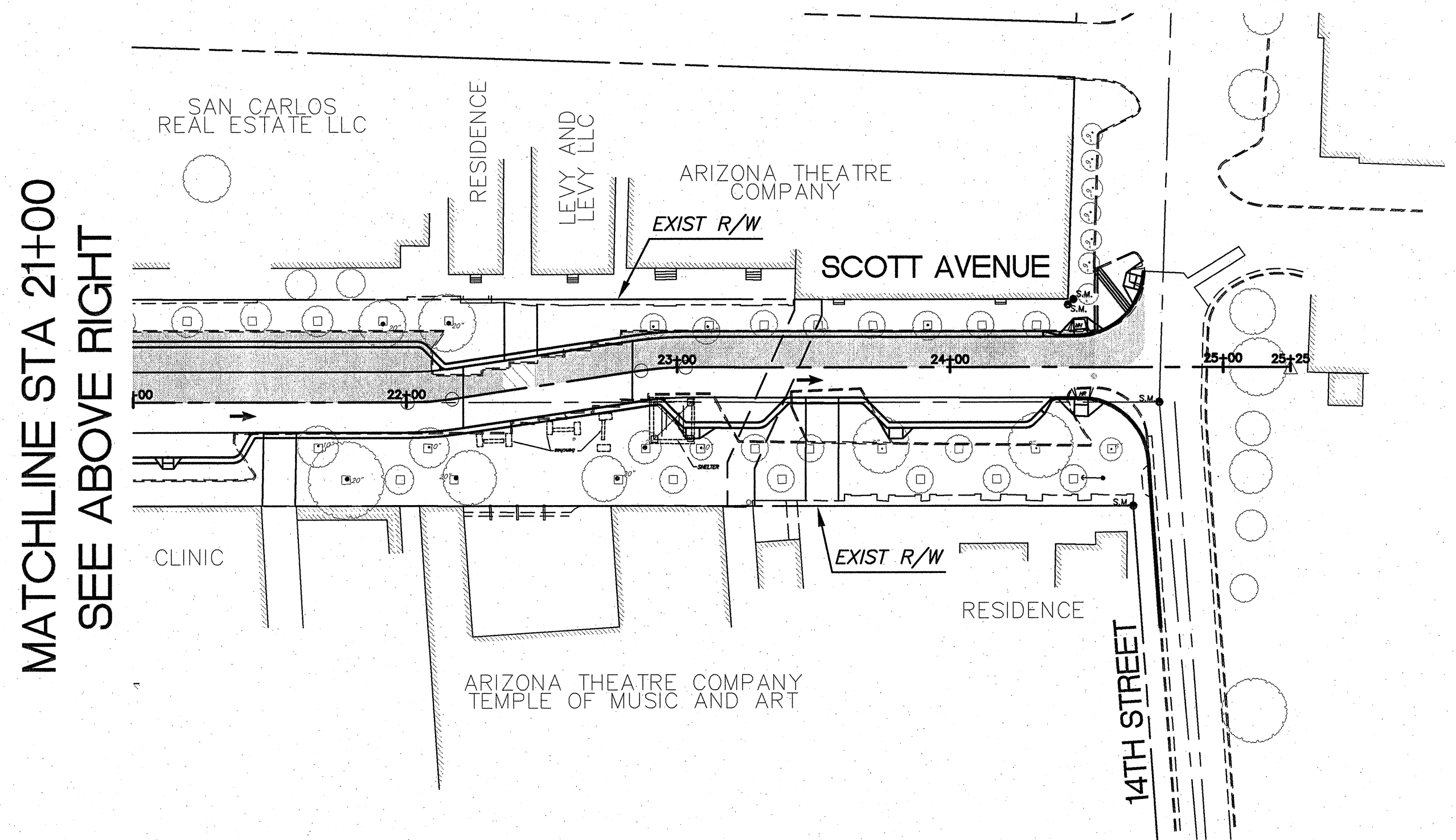
		DRWN. BY	T. RADDEMAN	REF. C-MT02	SCALE: 1"=20'
		DSGN. BY	T. RADDEMAN		
		CHKD. BY	K. NGUYEN	PLAN NO. I-2008-027	

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OF
71

NO.	DATE	REVISION	BY	CHKD.	APPR.


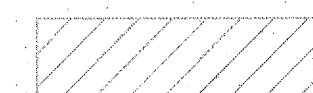



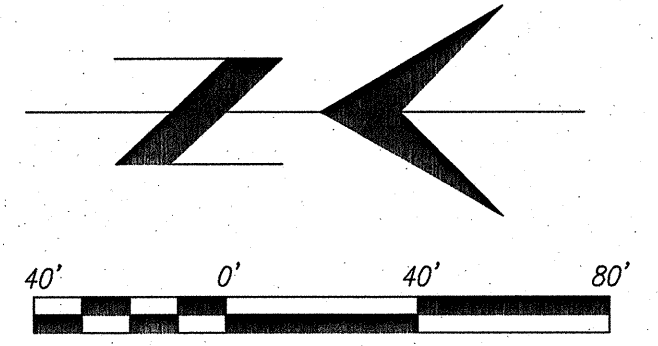
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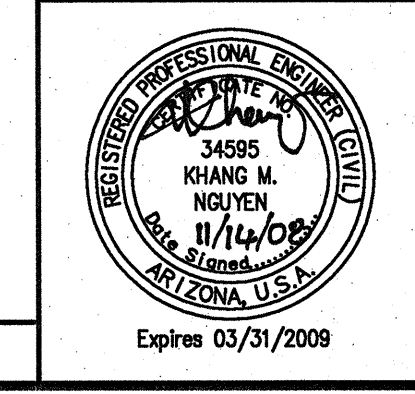
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LEGEND

-  LIMITS OF CONSTRUCTION
-  SHORT-TERM CLOSURE AS NEEDED
-  DIRECTION OF TRAFFIC FLOW



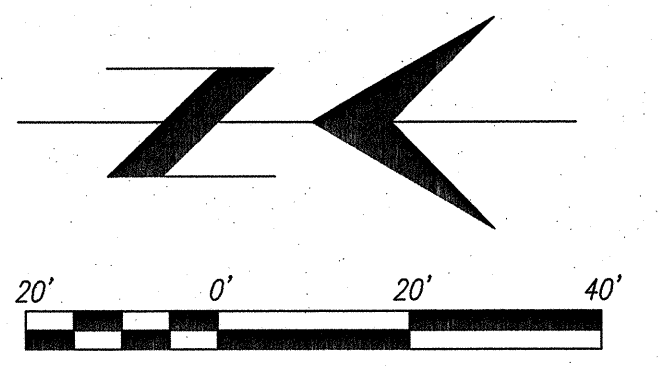
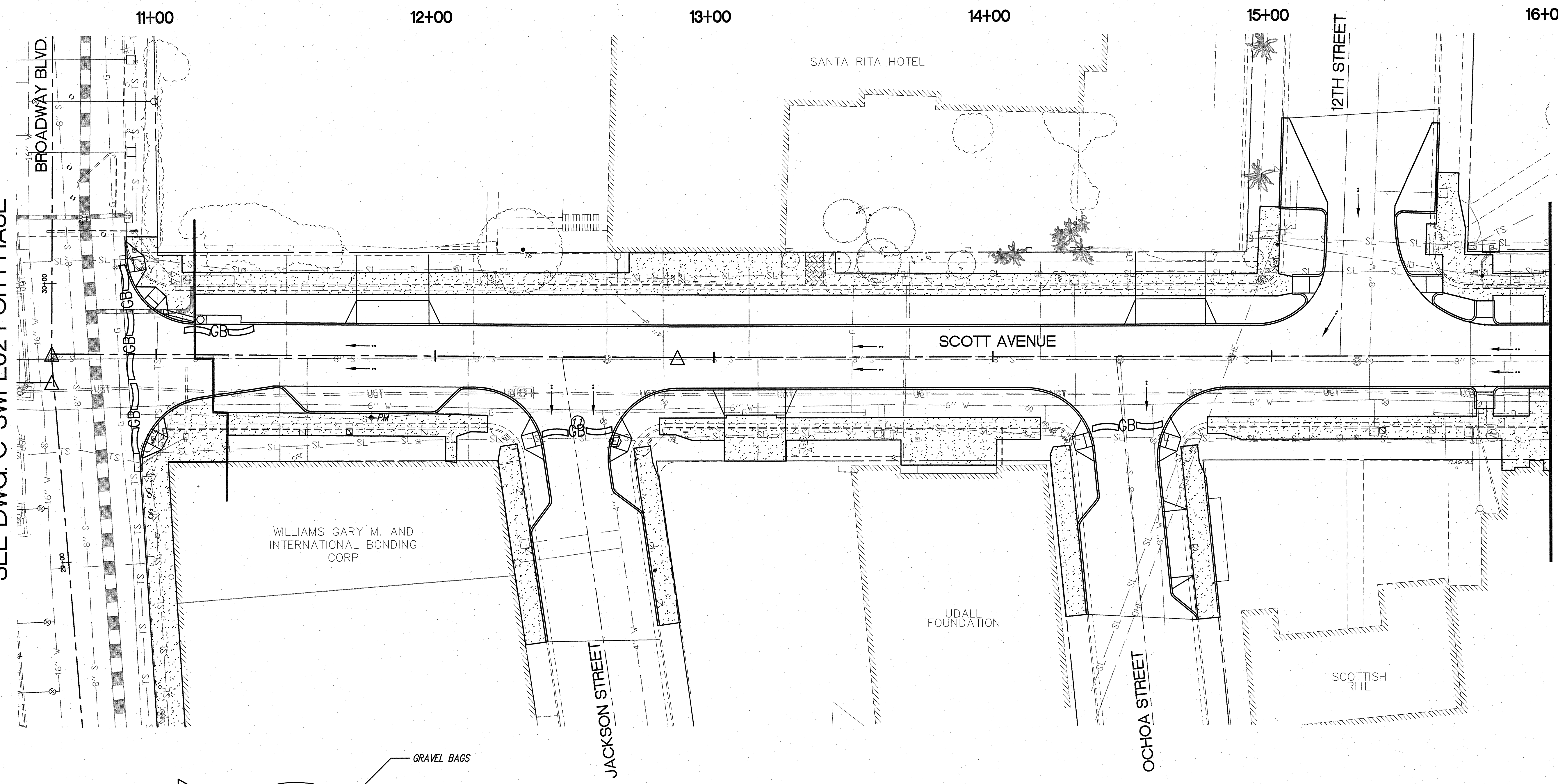
PHASE 2 MAINTENANCE OF TRAFFIC CONCEPTUAL PLAN - EAST SIDE



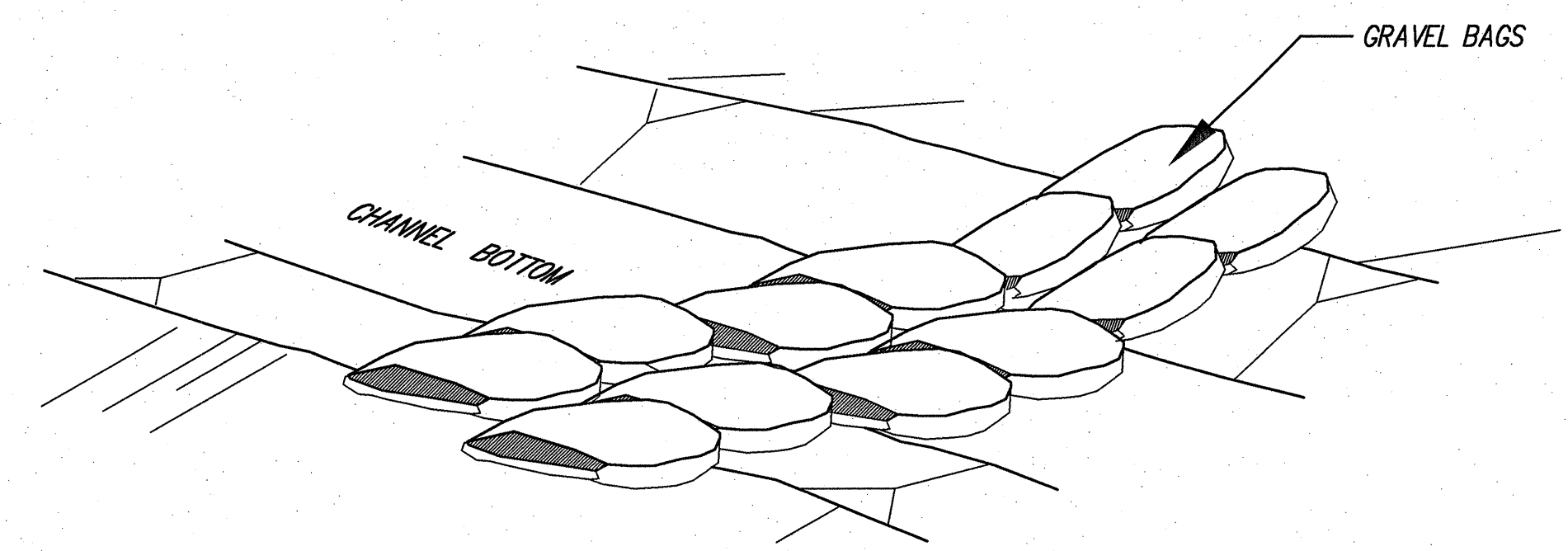
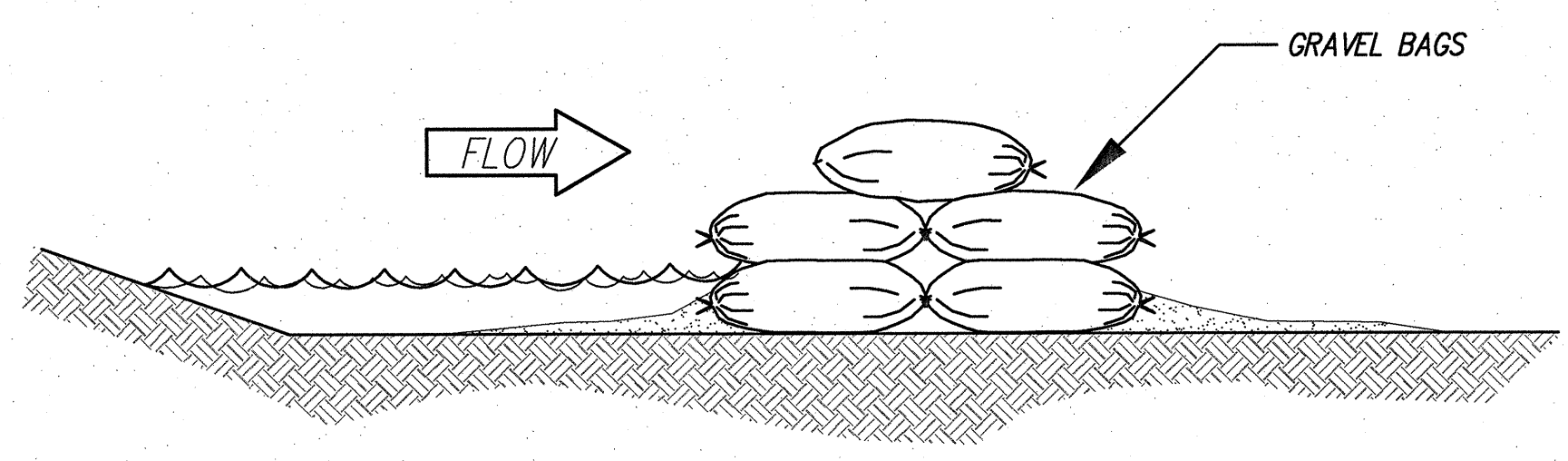
	DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETScape PROJECT	54 OF 71
	DRWN. BY T. RADEMAN DSGN. BY T. RADEMAN CHKD. BY K. NGUYEN	REF. C-MT03 SCALE: 1"=20' PLAN NO. I-2008-027
	NO. DATE REVISION BY CHKD. APPR.	

IN ACCORDANCE WITH THE CITY OF TUCSON, ARIZONA, CHAPTER 17, ARTICLE 10, SECTION 10-101, THE CITY ENGINEER HAS REVIEWED THIS PLAN AND APPROVES IT FOR THE CITY OF TUCSON.

BEGIN PHASE 1
SEE DWG. C-SWPL02 FOR PHASE



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SEE DWG. C-SWPL04



STACKED GRAVEL BAG BARRIER DETAIL
N.T.S.

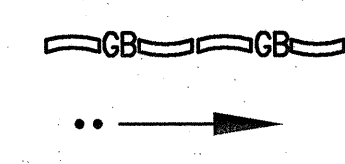
TOTAL AREA TO BE DISTURBED = 1.7 ACRES

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.

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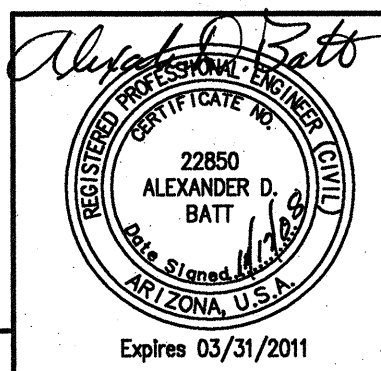


- GRAVEL BAG, TEMPORARY SEDIMENT BARRIER TO BE IN PLACE DURING CONSTRUCTION
- DIRECTIONAL FLOW ARROW
- IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO IMPLEMENT THE STORMWATER PLAN

A:\CADD\11 Drawings\3 Road\C-SWPL03.dwg 11/17/2008 8:12:16 AM alexander_moseke.dwg

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SWPPP

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

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of
71



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

REF. C-SWPL03 SCALE: 1"=20'
PLAN NO. I-2008-027

NO.	DATE	REVISION	BY	CHKD.	APPR.

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17+00

18+00

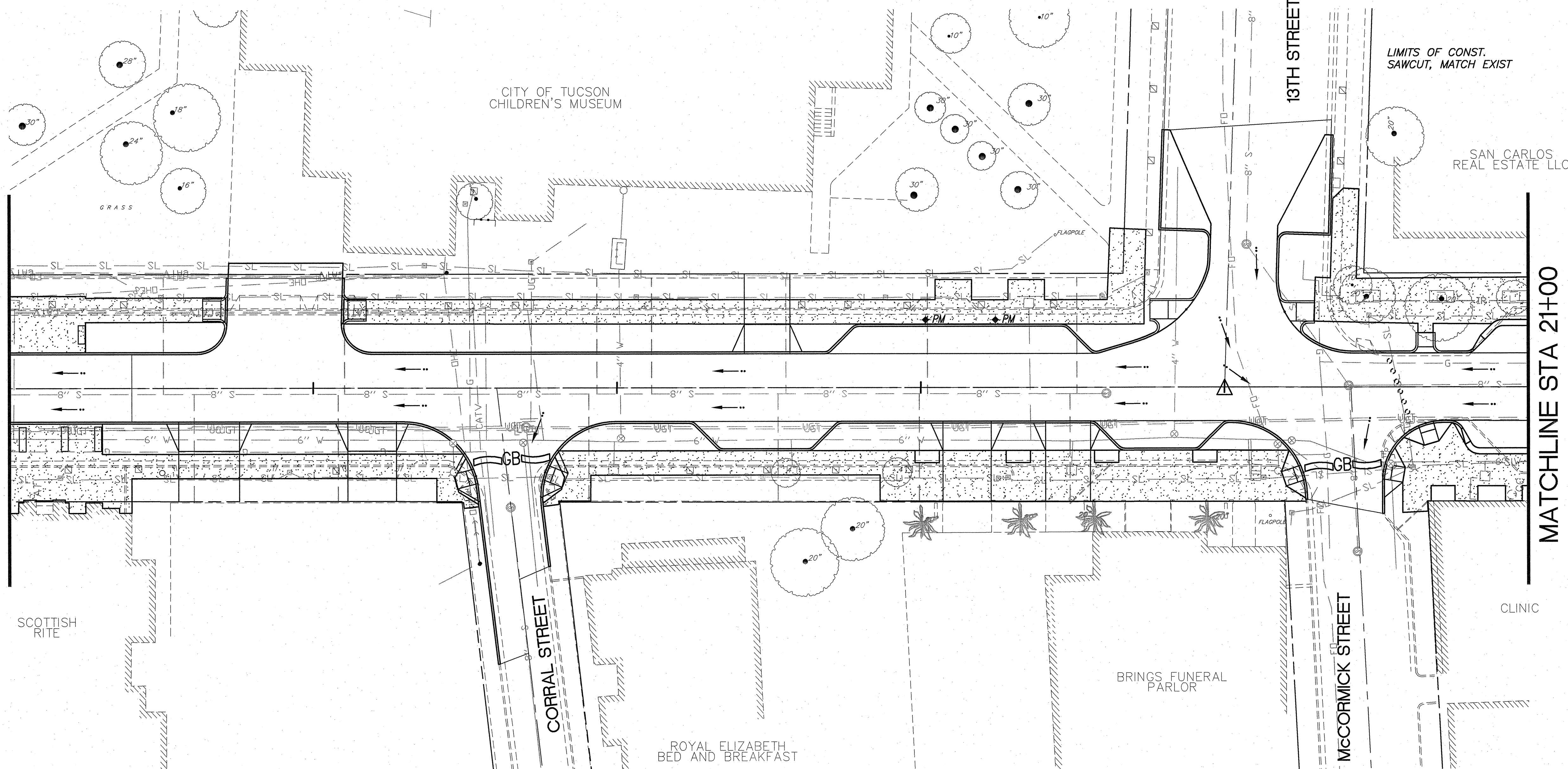
19+00

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21+00

MATCHLINE STA 16+00
SEE DWG. C-SWPL03

MATCHLINE STA 21+00
SEE DWG. C-SWPL05



LIMITS OF CONST.
SAWCUT, MATCH EXIST

SAN CARLOS
REAL ESTATE LLC

SCOTTISH
RITE

CORRAL STREET

ROYAL ELIZABETH
BED AND BREAKFAST

BRINGS FUNERAL
PARLOR

MCCORMICK STREET

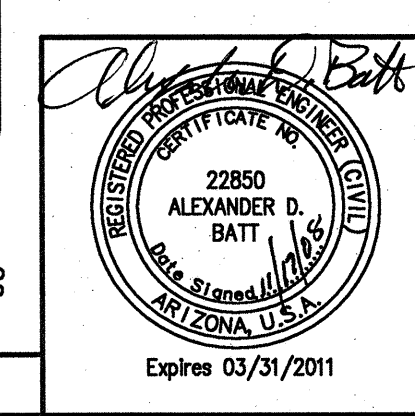
CLINIC

13TH STREET

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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETScape PROJECT

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of
71



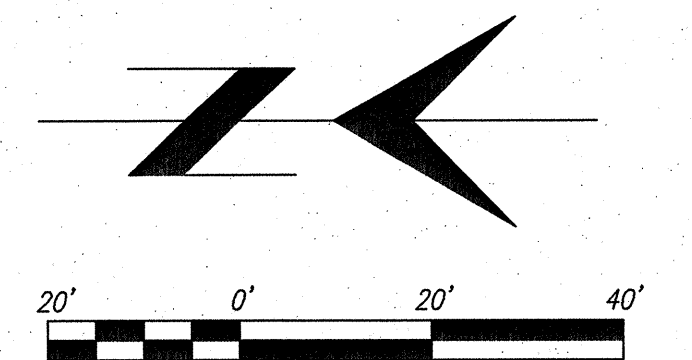
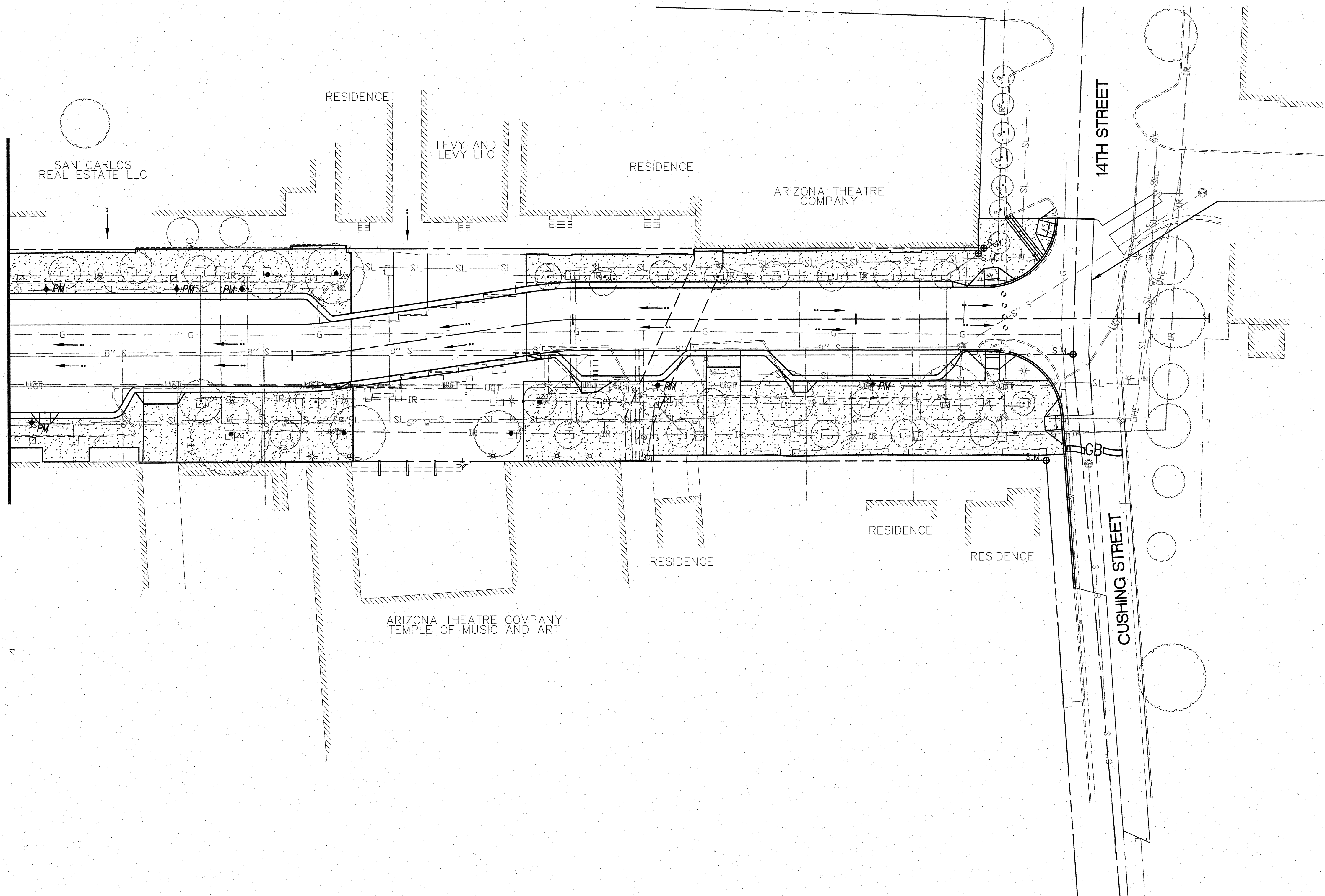
DRWN. BY	M. BRACKENBACH
DSGN. BY	D. BRACKENBACH, CHR., C.C.
CHKD. BY	K. BRACKEN

REF.	C-SWPL04	SCALE:	1"=20'
PLAN NO.	I-2008-027		

NO.	DATE	REVISION	BY	CHKD.	APPR.

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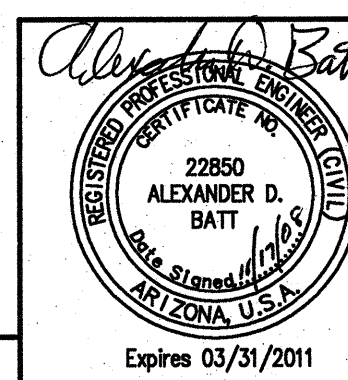
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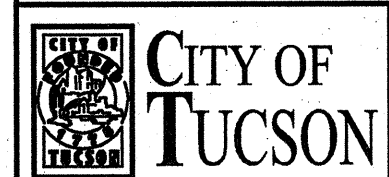


SWPPP

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
 SCOTT AVE.-BROADWAY BLVD. TO 14th ST. STREETSCAPE PROJECT

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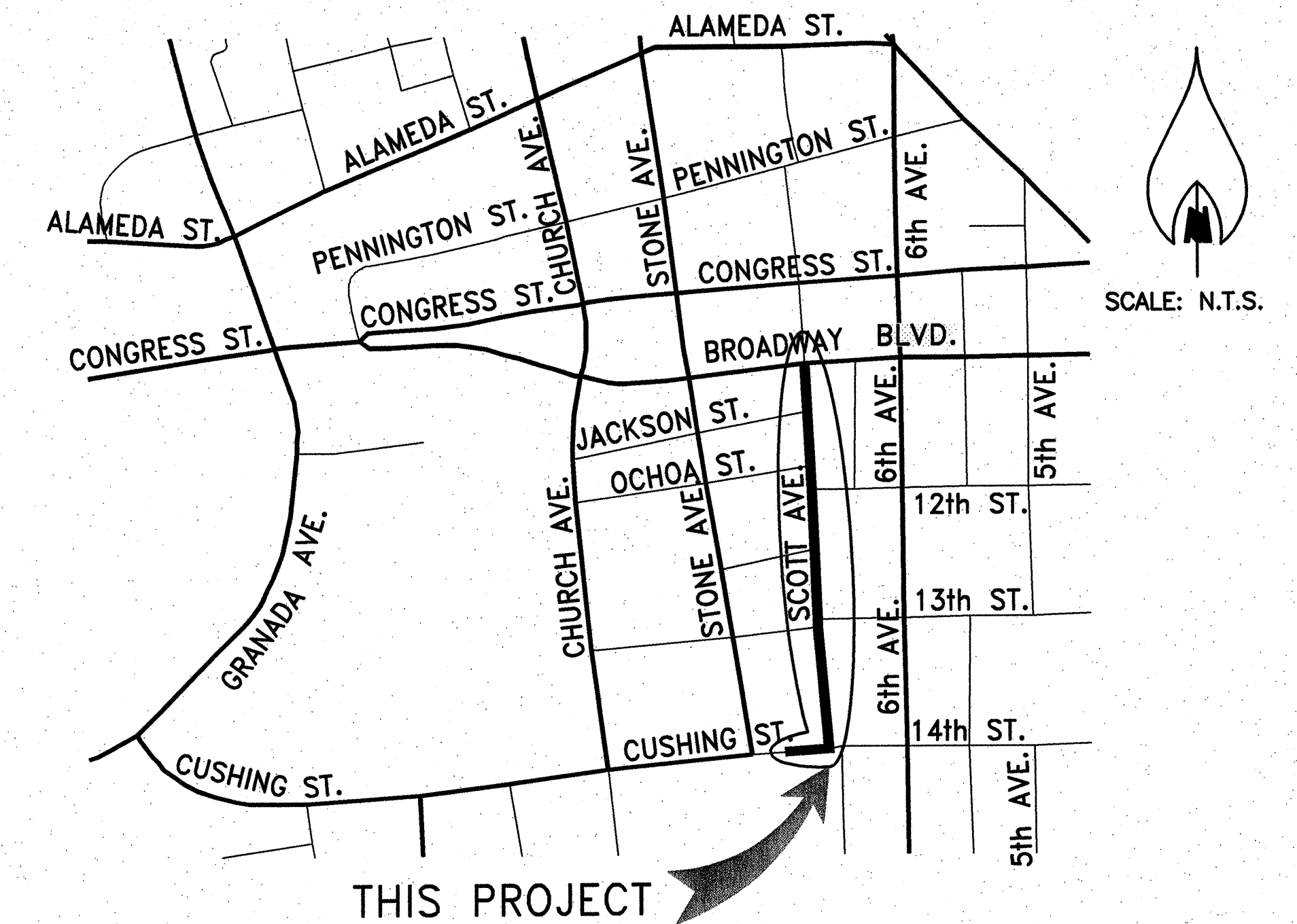
NO.	DATE	REVISION	BY	CHKD.	APPR.



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

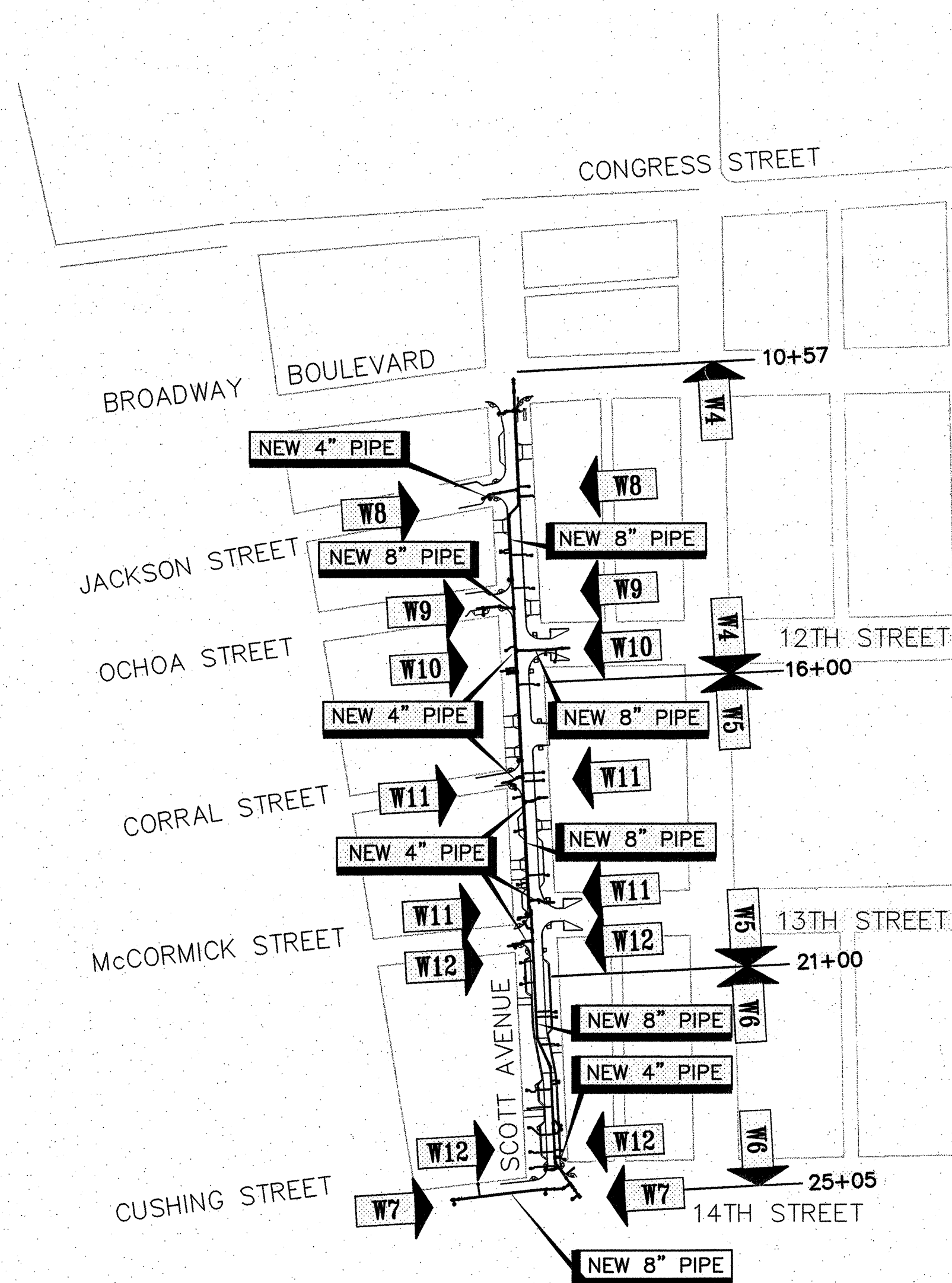
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PLAN NO.	I-2008-027		

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVE. - BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS



LOCATION PLAN

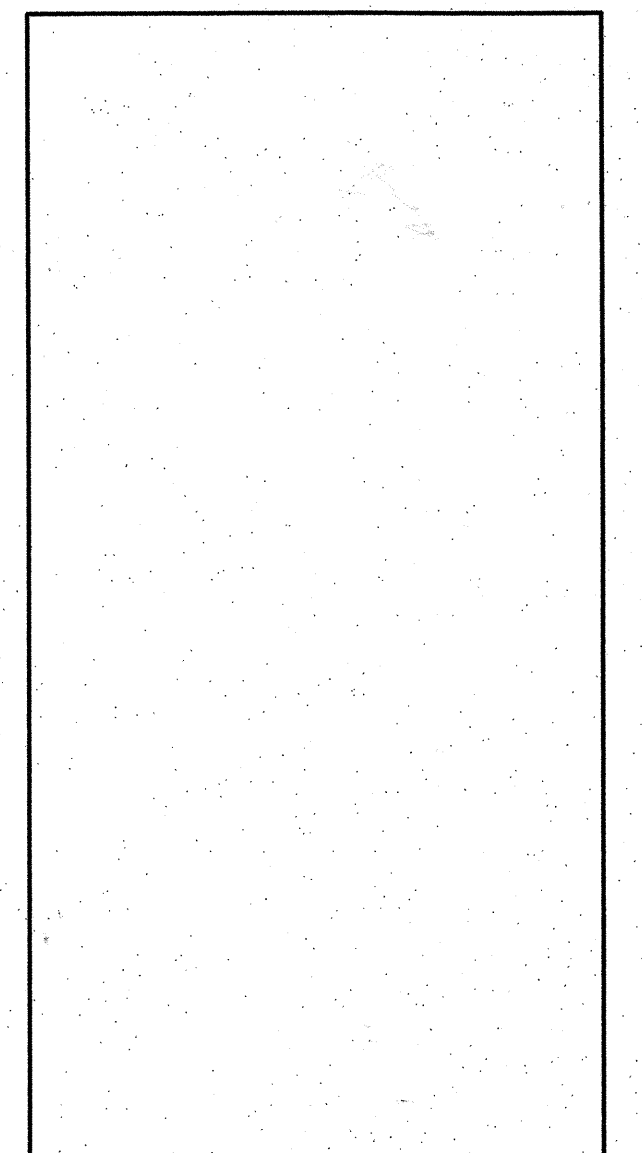
SEC. 12 & 13, T-14-S, R-13-E
G. & S.R.M.
CITY OF TUCSON PIMA COUNTY, ARIZONA
LATITUDE 32°11'N, LONGITUDE 110°93'W



SHEET INDEX PLAN

1" = 200'

AS BUILT DATA



CONTENTS

PAGE	SHEET	DESCRIPTION
59	W1	COVER SHEET
60	W2	GENERAL NOTES, LEGEND, ABBREVIATIONS
61	W3	MATERIAL QUANTITIES SUMMARY
62-70	W4-W12	PLAN & PROFILE
71	W13	SERVICE TABLES & DETAILS

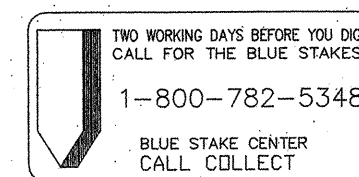
FOR ACCEPTANCE CONDITIONS, SEE WATER SYSTEM MODIFICATION NOTES, NOTE 1, SHEET W2 OF W13

Alexander H. Elder
CITY OF TUCSON WATER DEPARTMENT

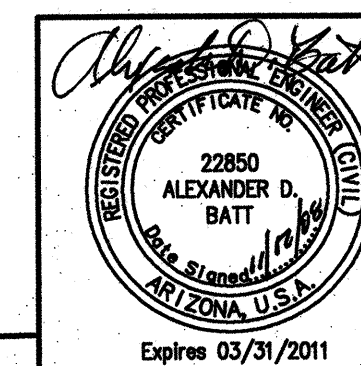
11/18/08
DATE

Dad Rame
CITY OF TUCSON FIRE DEPARTMENT

11-17-08
DATE



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DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS



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

REF. U-WTGN01 SCALE: 1"=200'
PLAN NO. I-2008-027

W1 OF W13
59 OF 71

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 WARRANTIES 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. 4-111-2008.
 - B. THE CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION SECTION WILL SCHEDULE THE TIME AND PLACE FOR THE MEETING.
 - C. NO WATER SYSTEM CONSTRUCTION SHALL BEGIN UNTIL A "NOTICE TO PROCEED" HAS BEEN ISSUED BY THE CITY OF TUCSON WATER DEPARTMENT.
 - D. ANY WATER WORK INSTALLED PRIOR TO THE NOTICE TO PROCEED DATE SHALL BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
4. **DIMENSIONS, SLOPES AND GRADES:**

ALL DIMENSIONS, SLOPES AND GRADES OF EXISTING WATER LINES ARE TAKEN FROM "AS BUILT" DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT INFORMATION BEFORE ORDERING ANY SPECIAL FITTINGS OR EQUIPMENT.
5. **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:**

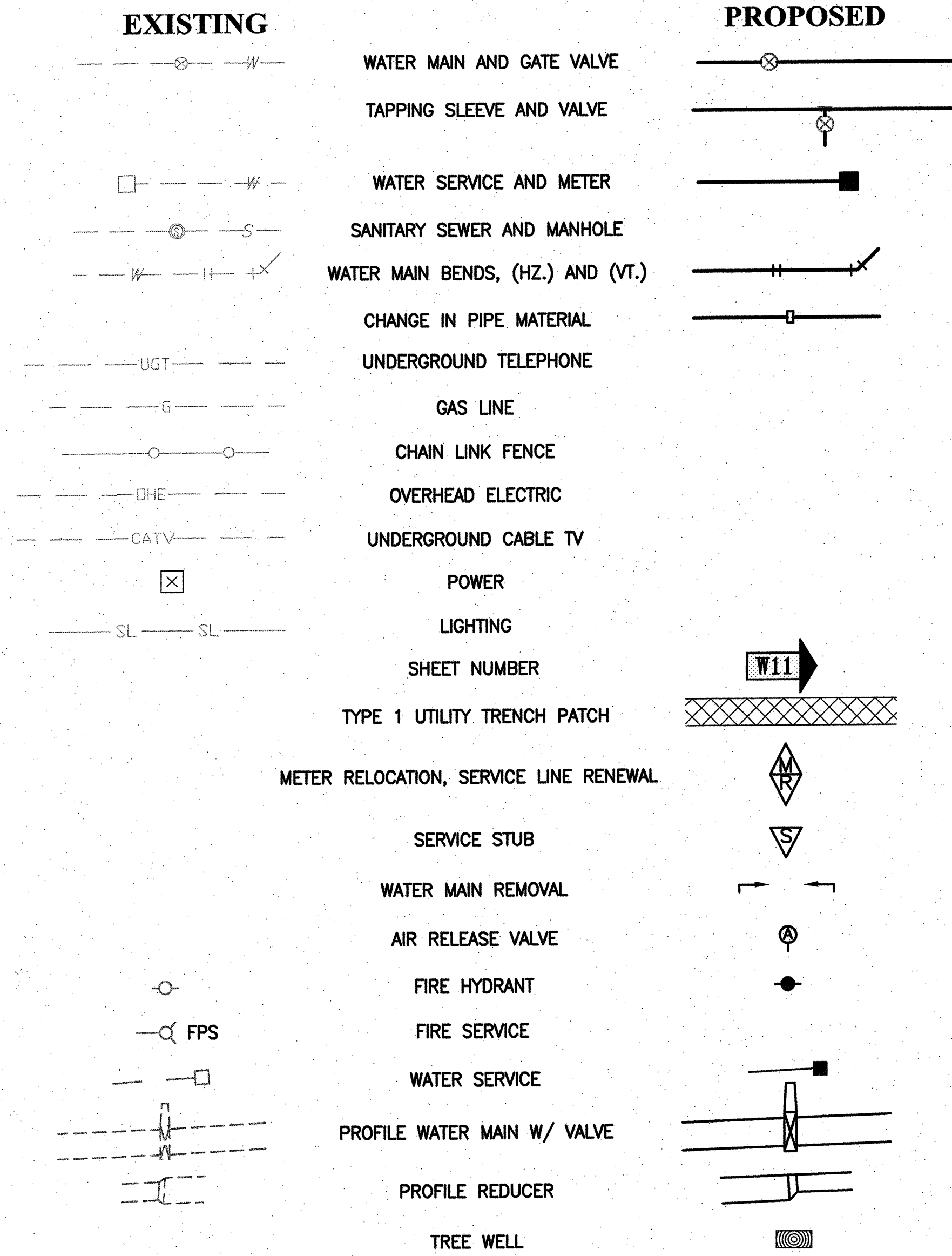
IF ANY EXISTING DETECTABLE MARKING TAPE IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE NEW TAPE. THERE SHALL BE NO ADDITIONAL CHARGE FOR THIS REINSTALLATION.
16. **TRACER WIRE:**

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



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WATER PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
 SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

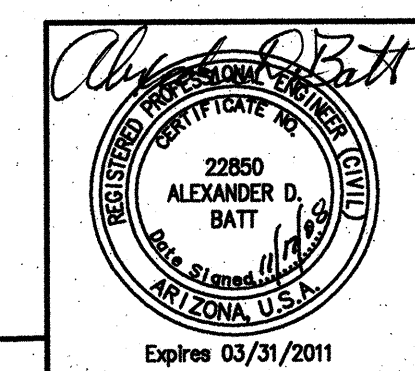
	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. U-WTGN02 SCALE:	PLAN NO. I-2008-027	W2 OF W13	60 OF 71		

NO.	DATE	REVISION	BY	CHKD.	APPR.

MATERIAL QUANTITIES SUMMARY

ITEM NUMBER	ITEM DESCRIPTION	UNITS	SHEET W4		SHEET W5		SHEET W6		SHEET W7		SHEET W8		SHEET W9		SHEET W10		SHEET W11		SHEET W12		TOTALS		
			EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	EST.	AS BUILT	
5100530	PAVEMENT REPLACEMENT FOR NEW WATER MAINS	L.F.	38				22		92												152		
5100608	SEWER MAIN REPLACEMENT, 8"	L.F.			9		32		13												54		
5101104	PIPE, 4" DI CL (350)	L.F.								28					29		46			17		120	
5101106	PIPE, 6" DI CL (350)	L.F.	37		15		27															79	
5101108	PIPE, 8" DI CL (350)	L.F.	28		117		417		48													610	
5101404	PIPE, 4" PVC (DR14, CL305)	L.F.									116				49		56					221	
5101406	PIPE, 6" PVC (DR14, CL305)	L.F.					5		5										43			53	
5101408	PIPE, 8" PVC (DR14, CL305)	L.F.	523		384				208				159									1274	
5101603	PIPE, 3/4" COPPER INCIDENTAL	L.F.																					
5101604	PIPE, 1" COPPER	L.F.	124		249		322		21				30									746	
5101606	PIPE, 1 1/2" COPPER	L.F.	55		18																	73	
5101608	PIPE, 2" COPPER	L.F.					70															70	
5101804	JOINT RESTRAINT, 4"	L.F.									114				72		100			17		303	
5101806	JOINT RESTRAINT, 6"	L.F.					5												40			45	
5101808	JOINT RESTRAINT, 8"	L.F.	430		228		295		141				159									1253	
5101901	FITTINGS INCIDENTAL	EA.																					
5102116	TAPPING SLEEVE & VALVE, 16" x 8"	EA.	1																			1	
5102204	GATE VALVE, 4"	EA.									2				2		2			1		7	
5102206	GATE VALVE, 6"	EA.	2		2		1													1		6	
5102208	GATE VALVE, 8"	EA.	4		4		2		1				2									13	
5102603	COMBINATION AIR RELEASE VALVE (ARV), 3/4"	EA.			1		1		2		1		1		1					1		8	
5103205	FIRE HYDRANT	EA.	2		2		1															5	
5105010	REMOVE & DISPOSE NON CEMENT ASBESTOS (CA) WATER PIPE 10" AND SMALLER	L.F.	511		500		402		77		103		157		56		116			79		2001	
5105310	REMOVE & DISPOSE EXISTING FIRE HYDRANT	EA.	2		2		1															5	
5106004	CONNECTIONS 4"	EA.	2		2		1															5	
5106006	CONNECTIONS 6"	EA.	2		4		1		1													8	
5106008	CONNECTIONS 8"	EA.	3				1															4	
5108114	3/8" METER RELOCATION, SERVICE LINE RENEWAL (M/R), 1"	EA.	4		9		10		1													698	
5108116	METER RELOCATION, SERVICE LINE RENEWAL (M/R), 1 1/2"	EA.	3		1																	73	
5108118	METER RELOCATION, SERVICE LINE RENEWAL (M/R), 2"	EA.					2															70	
5108154	STUBS (S), 1"	EA.	1											1								2	
5108302	NEW METER BOX, #2	EA.	1											1								2	

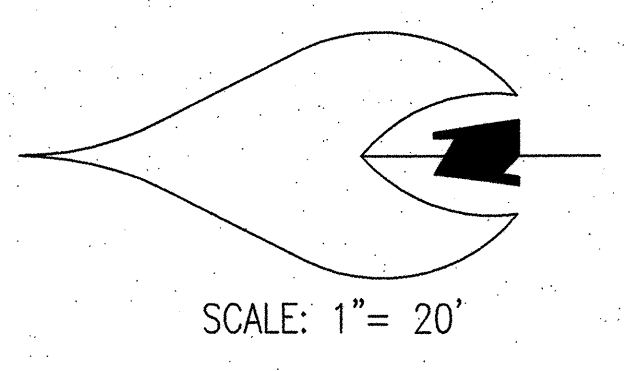
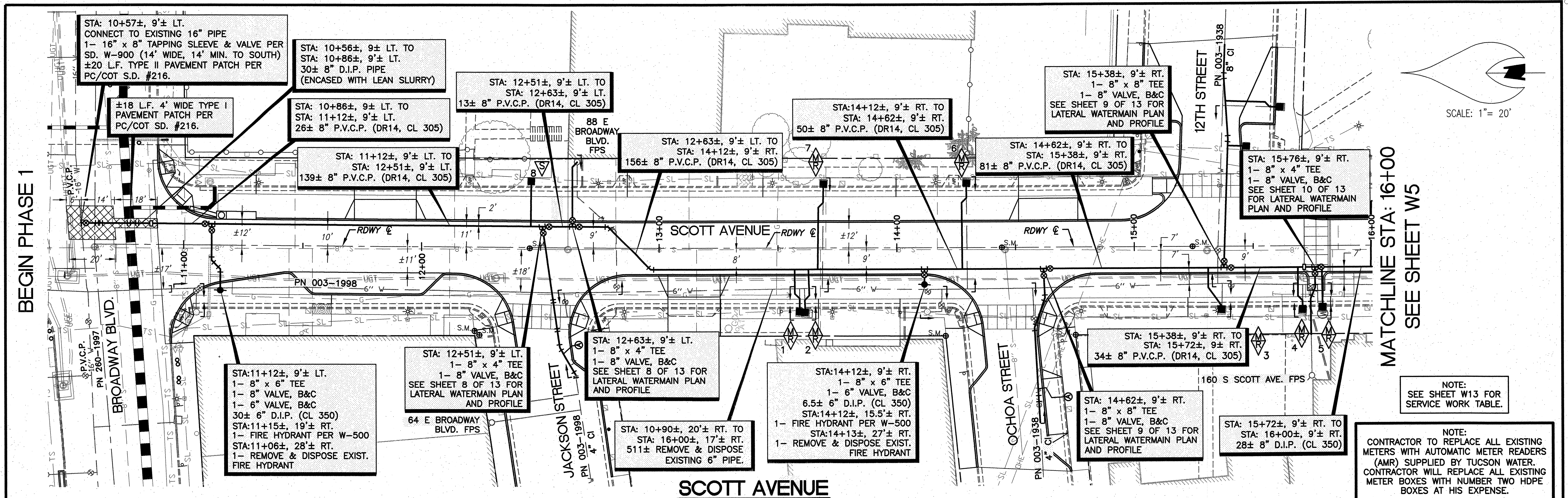
WATER PLANS



DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS		W3 OF W13	61 OF 71
	DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. U-WTGN03 SCALE: PLAN NO. I-2008-027	

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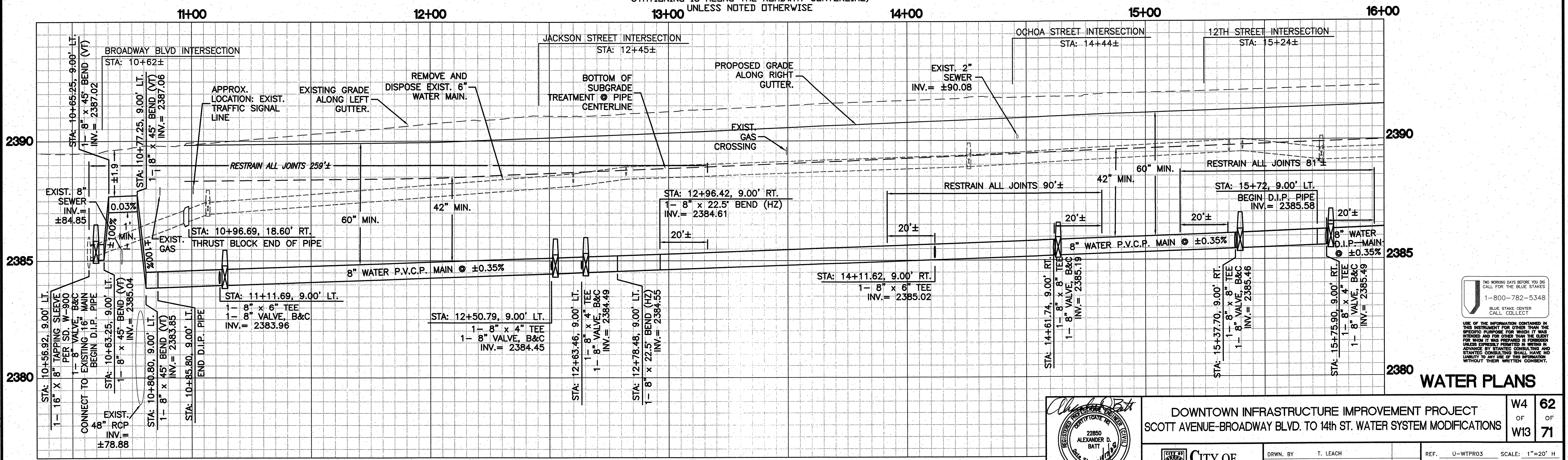
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SEE SHEET W5

NOTE:
SEE SHEET W13 FOR
SERVICE WORK TABLE.

NOTE:
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(AMR) SUPPLIED BY TUCSON WATER.
CONTRACTOR WILL REPLACE ALL EXISTING
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SCOTT AVENUE

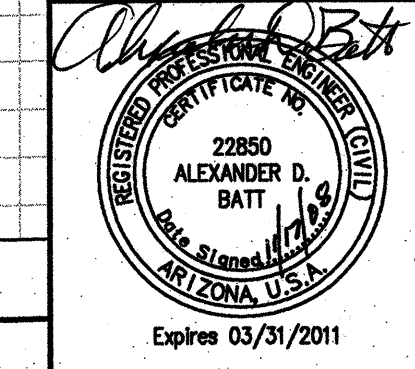
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WATER PLANS



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SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

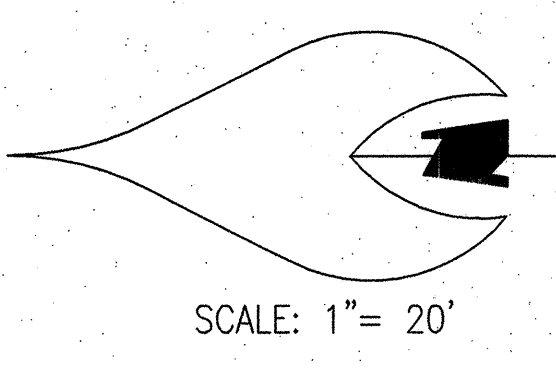
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1"=2' V

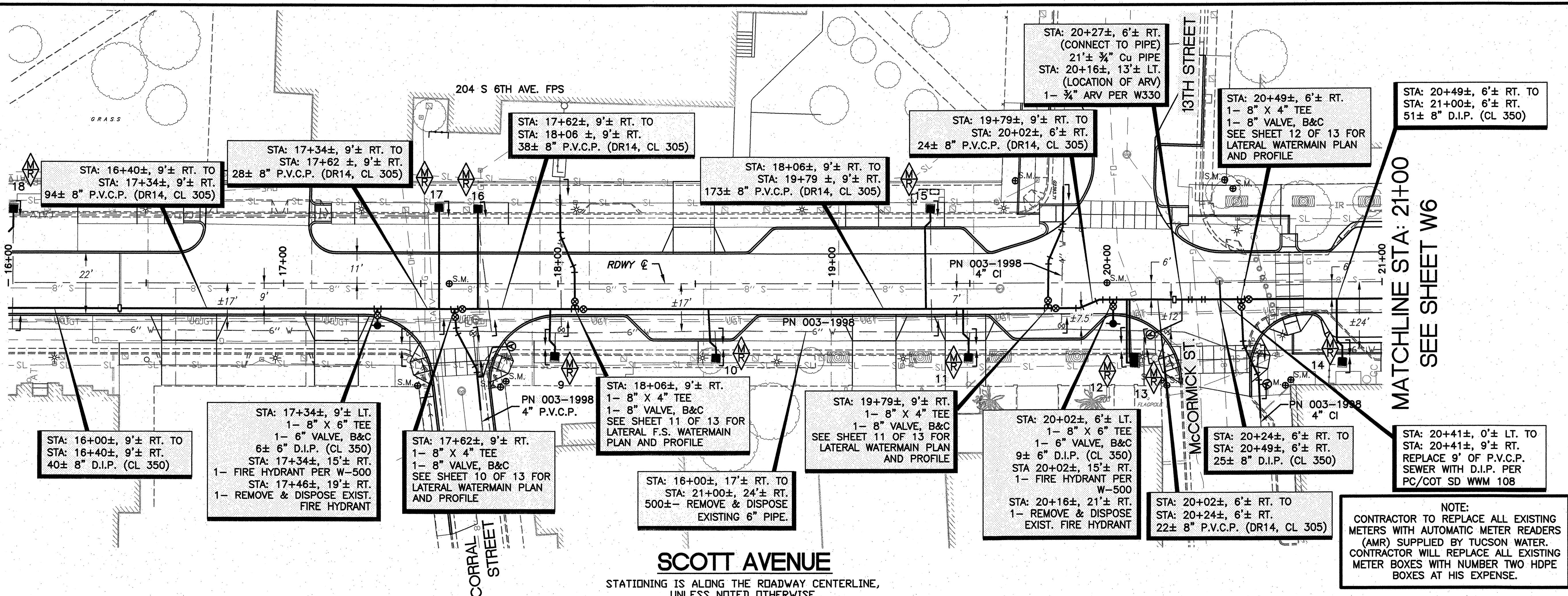
PLAN NO. I-2008-027

W4 OF W13 62 OF 71

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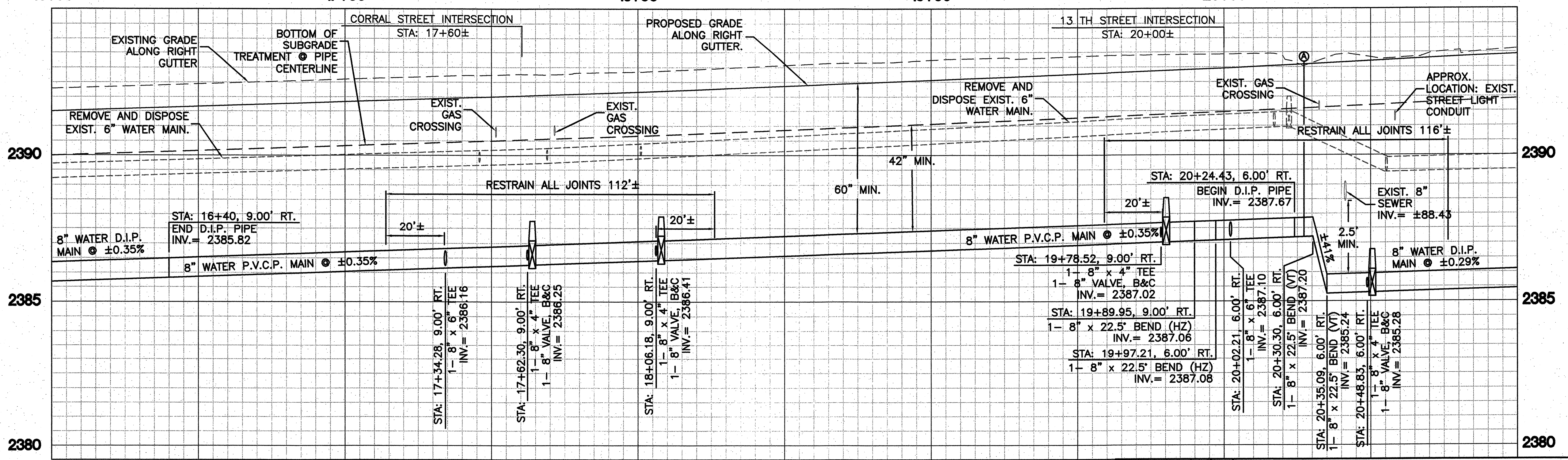
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SCOTT AVENUE

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16+00 17+00 18+00 19+00 20+00 21+00

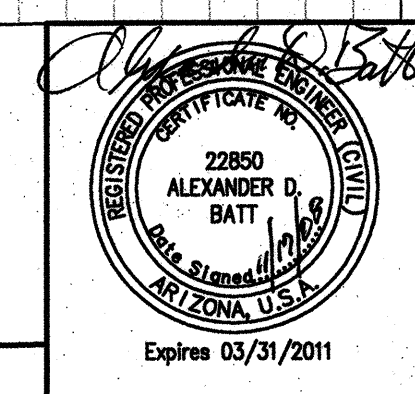


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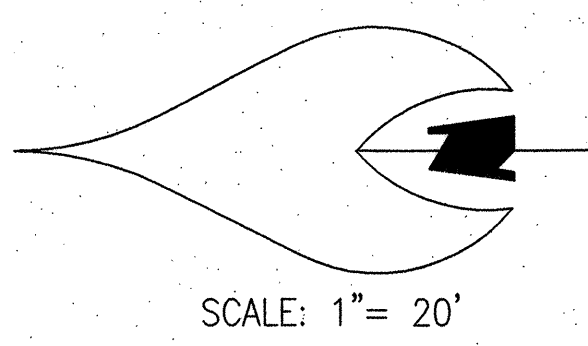
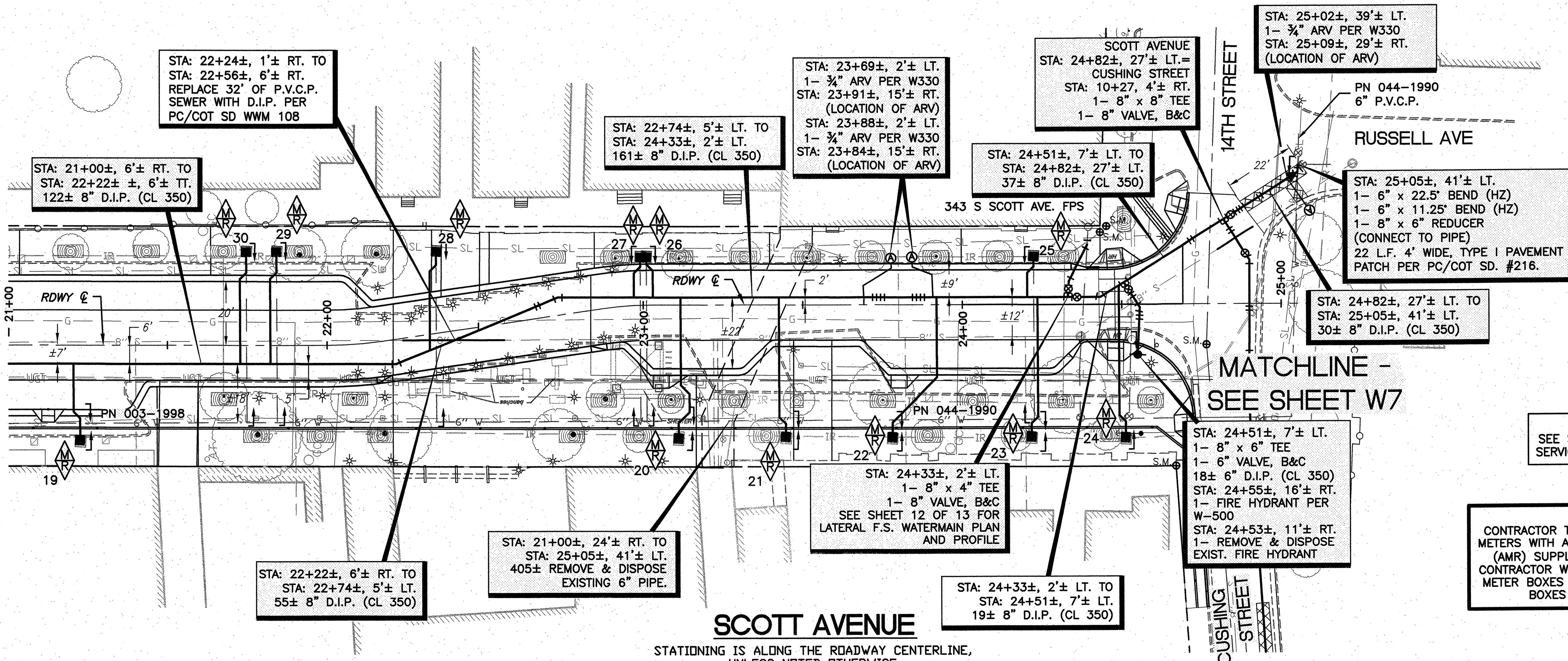
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

W5 OF W13 63 OF 71

CITY OF TUCSON
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CHKD. BY A. BATT
REF. U-WTPR04 SCALE: 1"=20' H
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PLAN NO. I-2008-027

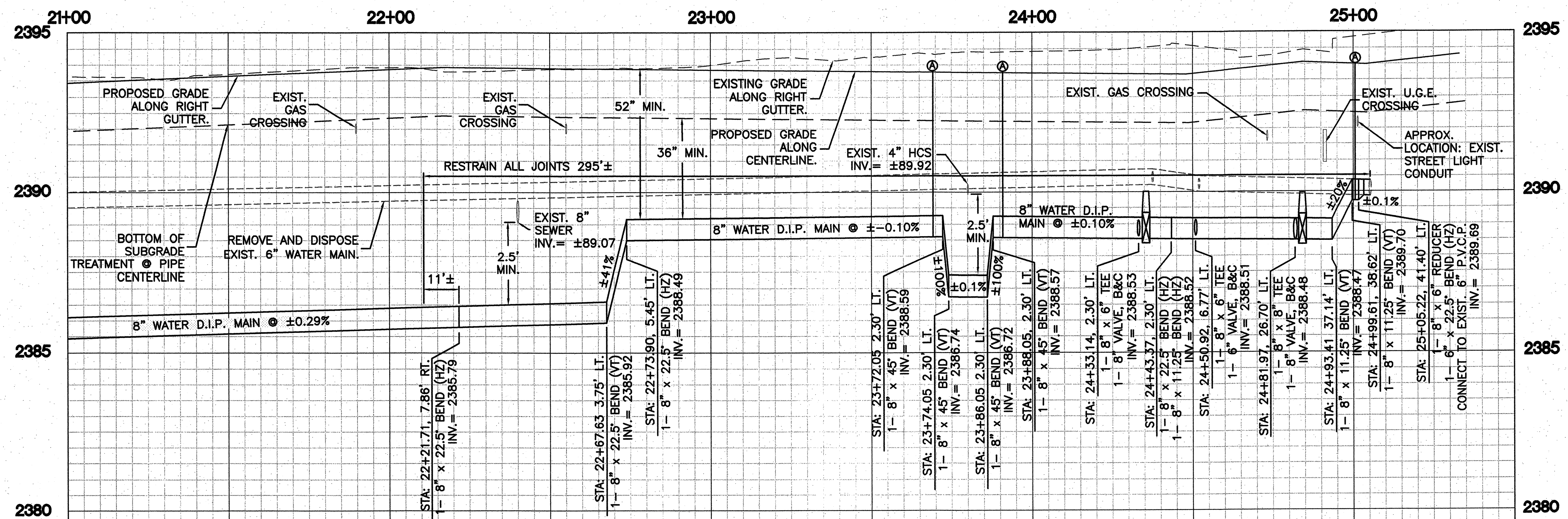
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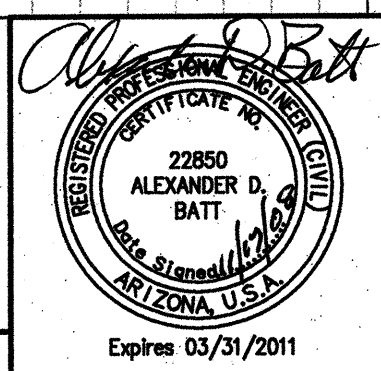
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WATER PLANS



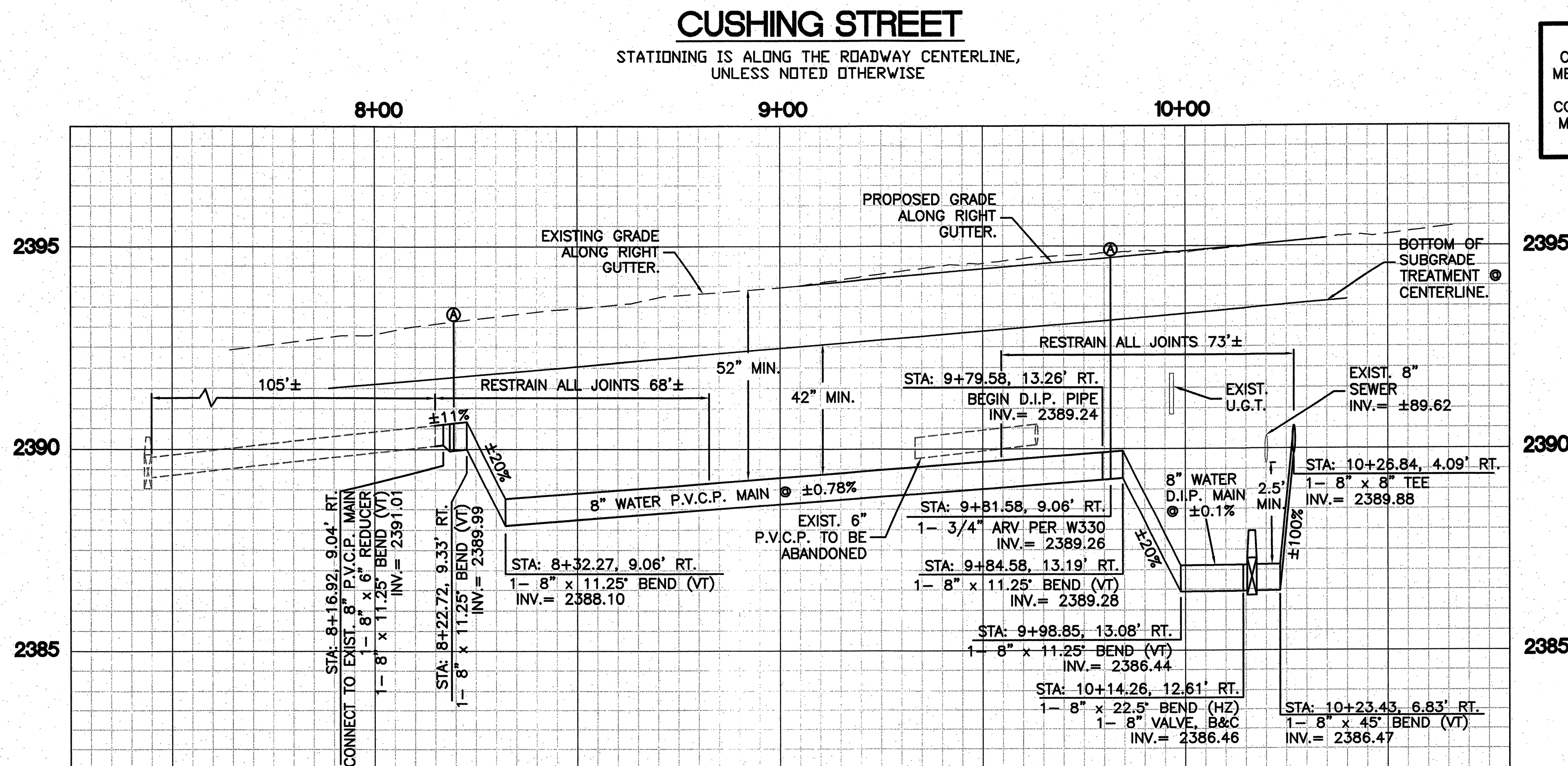
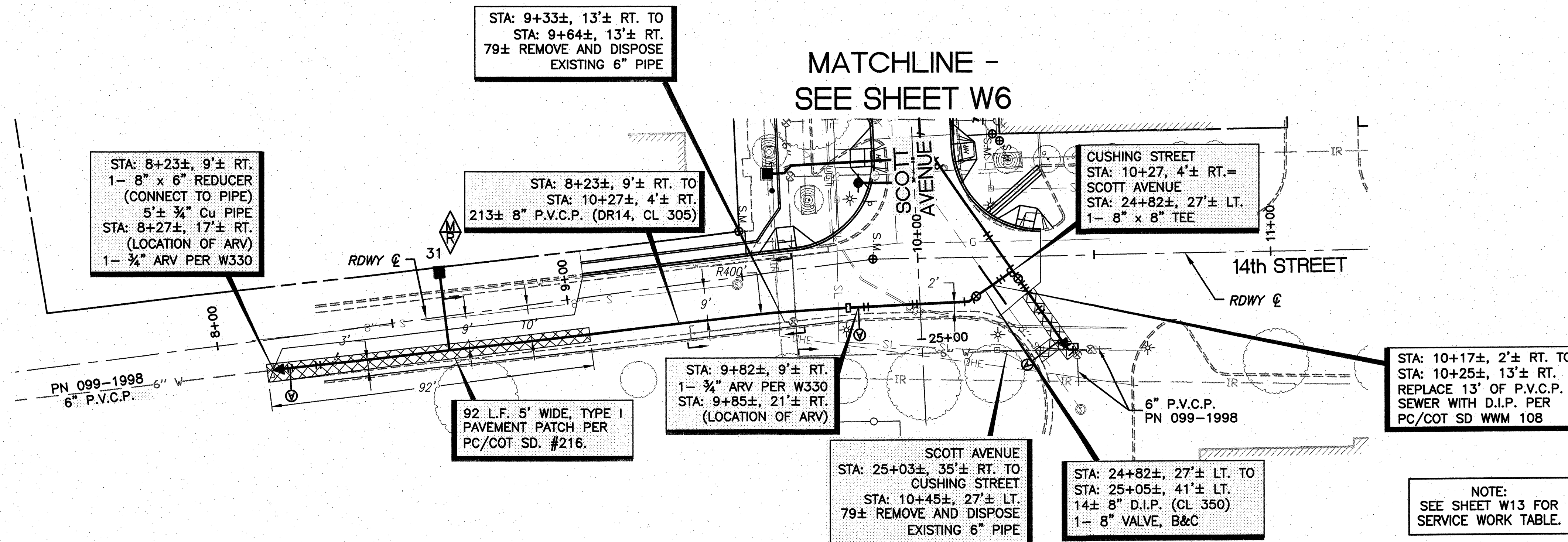
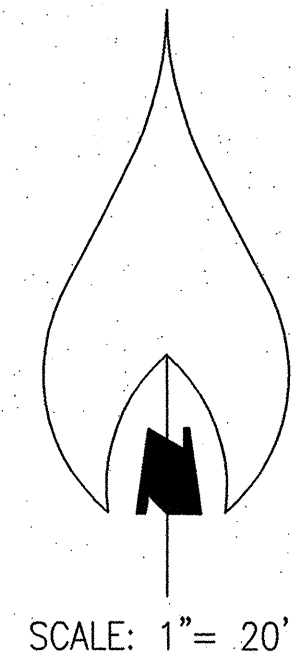
DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

W6 OF W13
64 OF 71

DRWN. BY	T. LEACH	REF.	U-WTPR05	SCALE:	1"=20' H 1"=2' V
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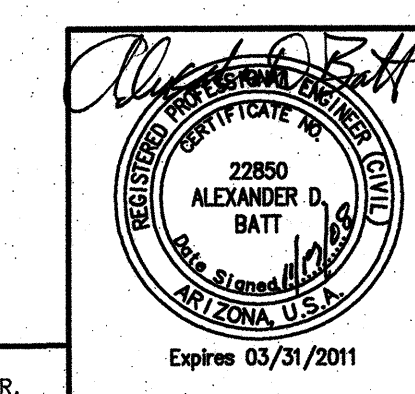
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SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

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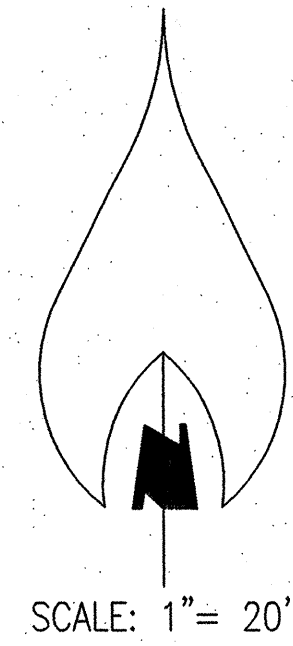
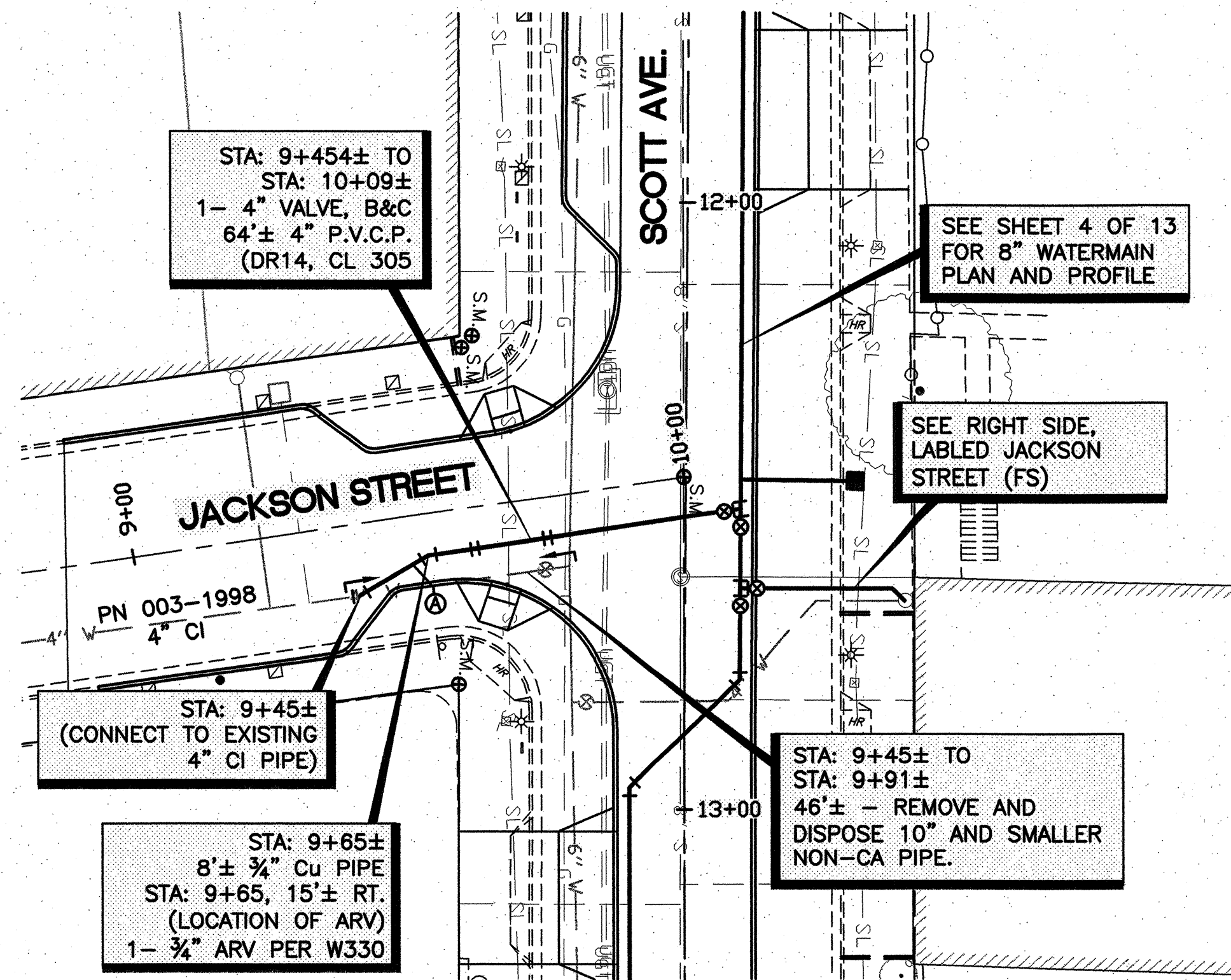
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PLAN NO. I-2008-027

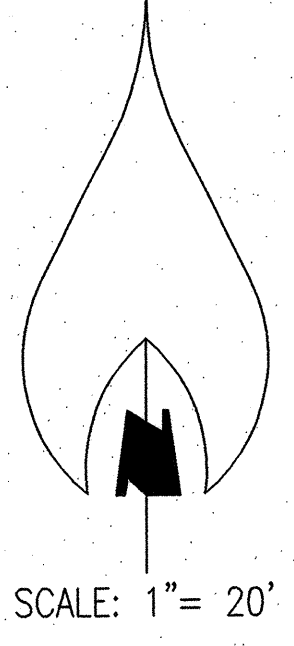
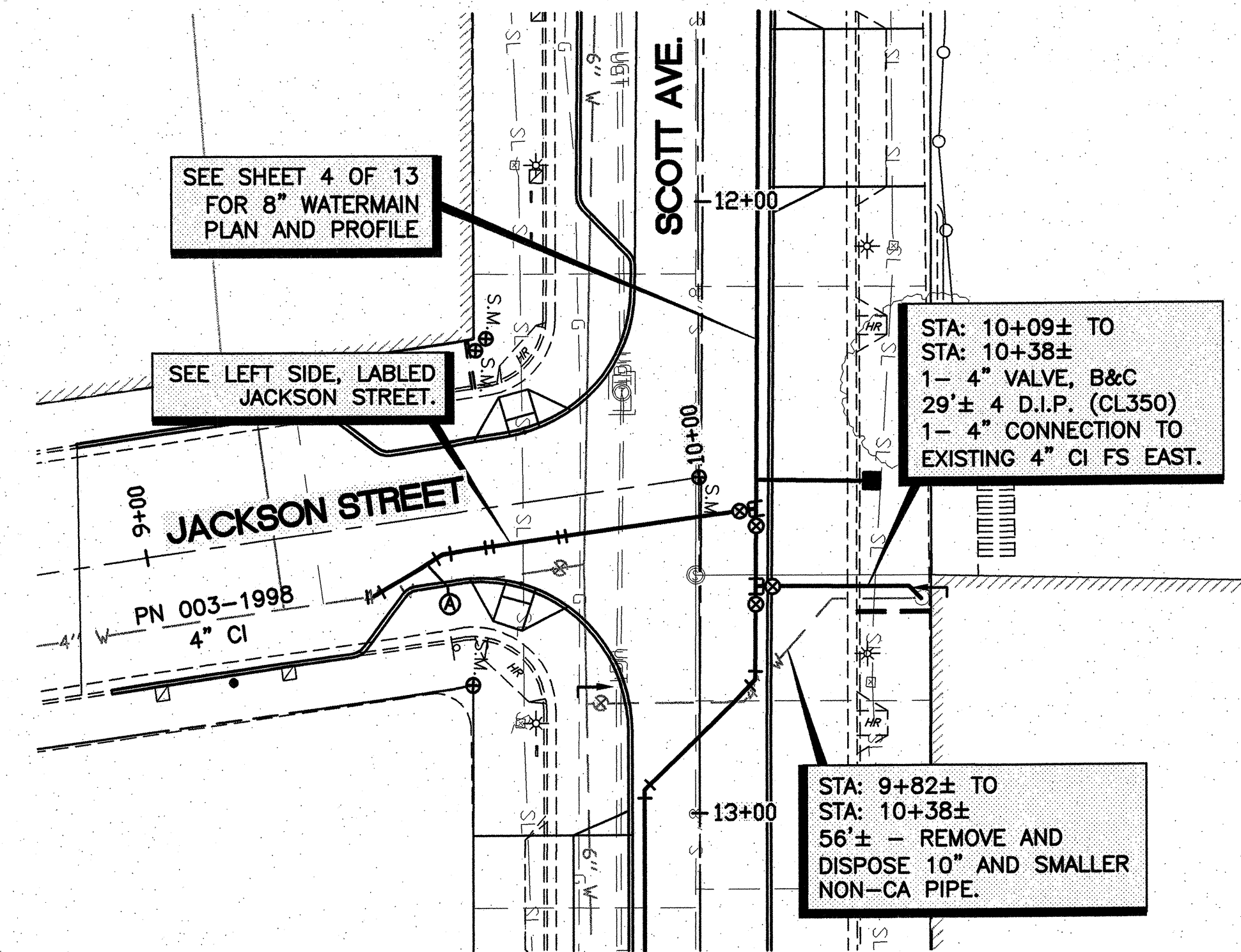
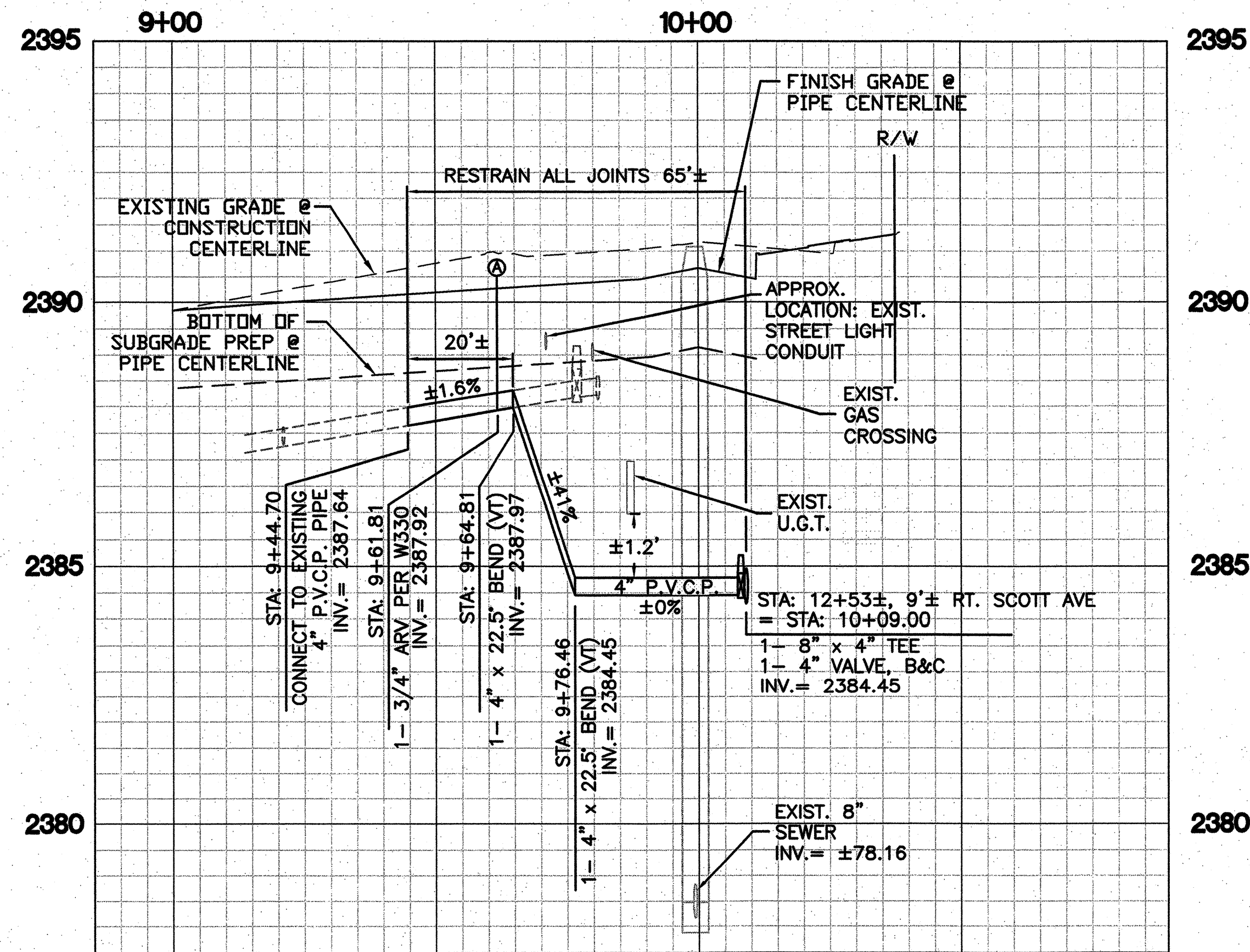
W7 OF W13 **65 OF 71**

NO.	DATE	REVISION	BY	CHKD.	APPR.

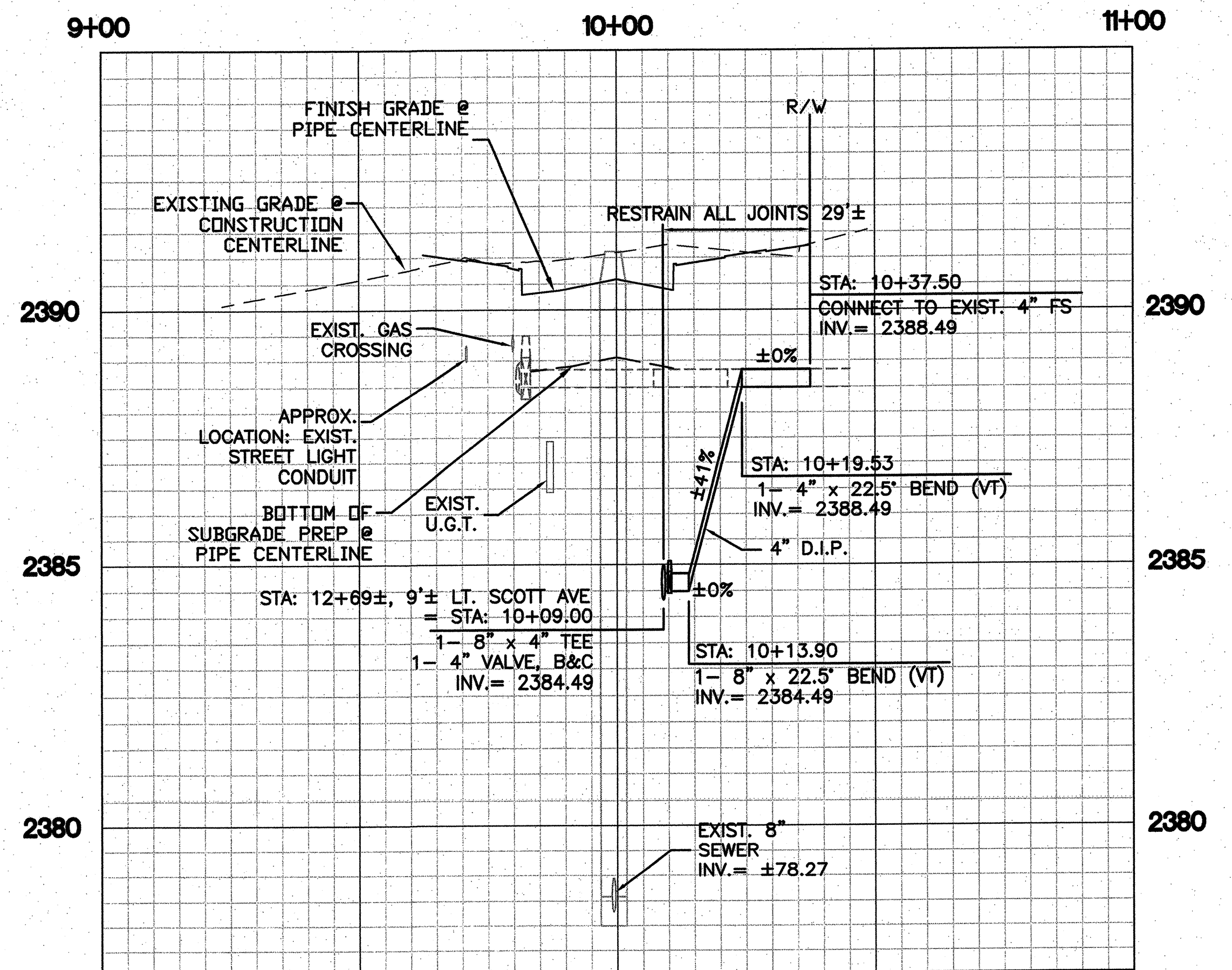
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 T. LEACH
 B. HOSACK
 A. BATT



JACKSON STREET
12+53± SCOTT AVE. =
10+00 ROADWAY CENTERLINE

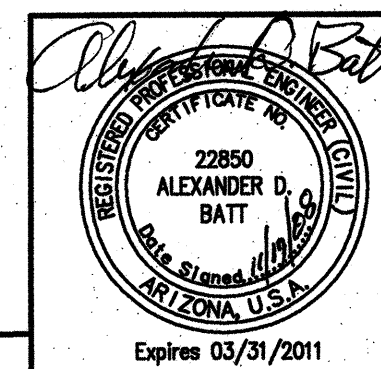


JACKSON STREET (FS)
12+69± SCOTT AVE. =
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WATER PLANS



DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

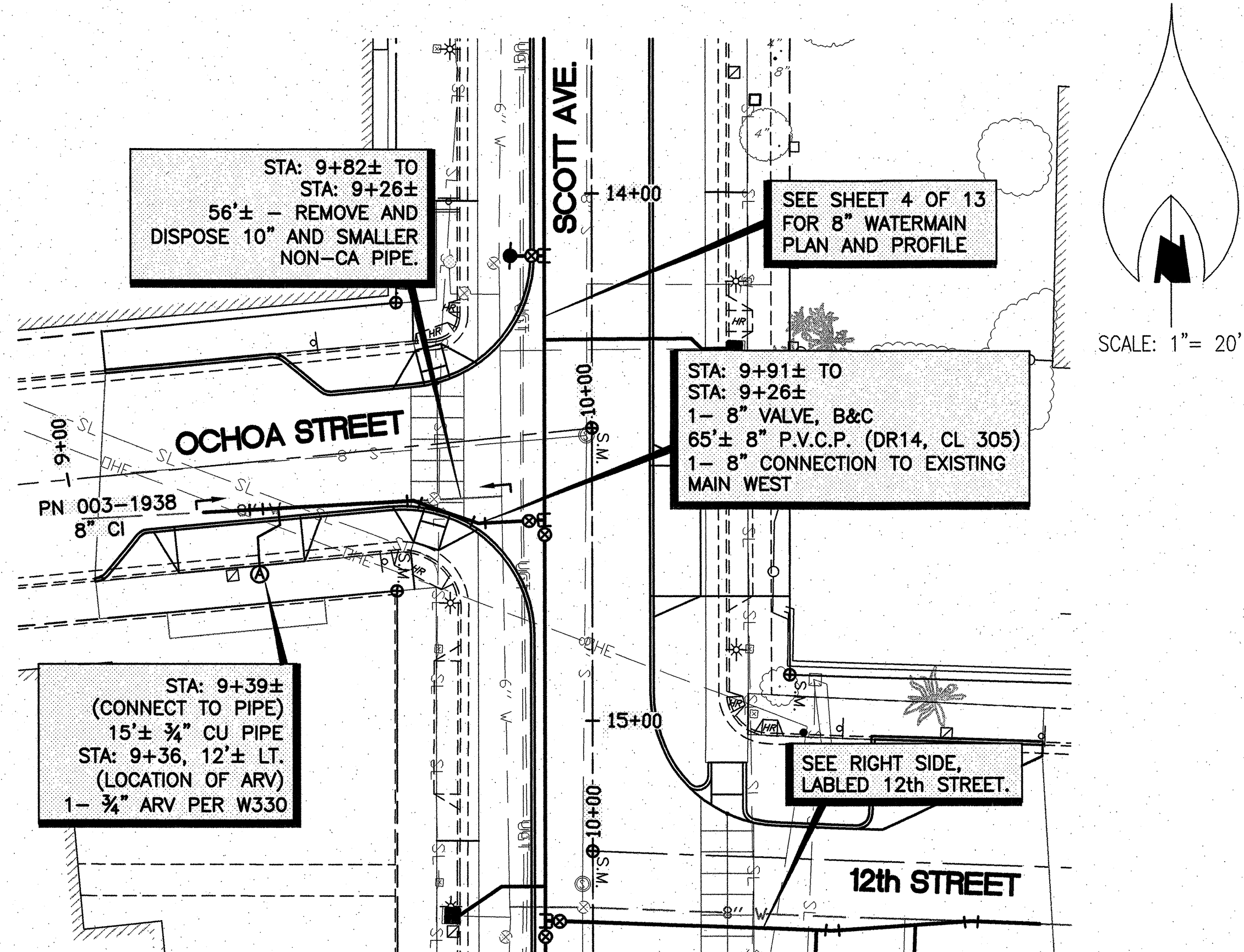


DRWN. BY T. LEACH
DSGN. BY B. HOSACK
CHKD. BY A. BATT

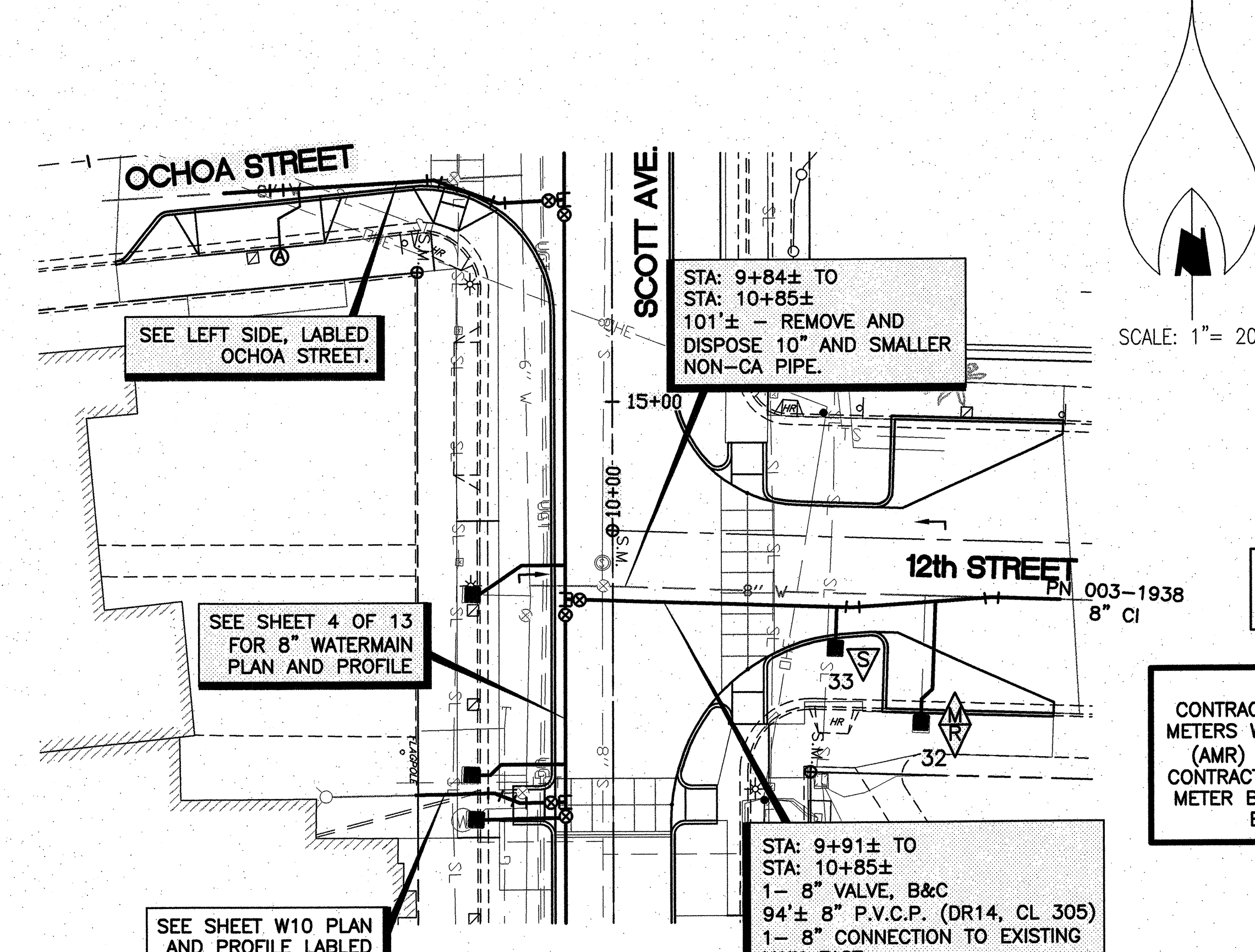
REF. U-WTDT01 SCALE: 1"=20' H
1"=2' V
PLAN NO. I-2008-027

W8 66
OF
W13 71

NO.	DATE	REVISION	BY	CHKD.	APPR.



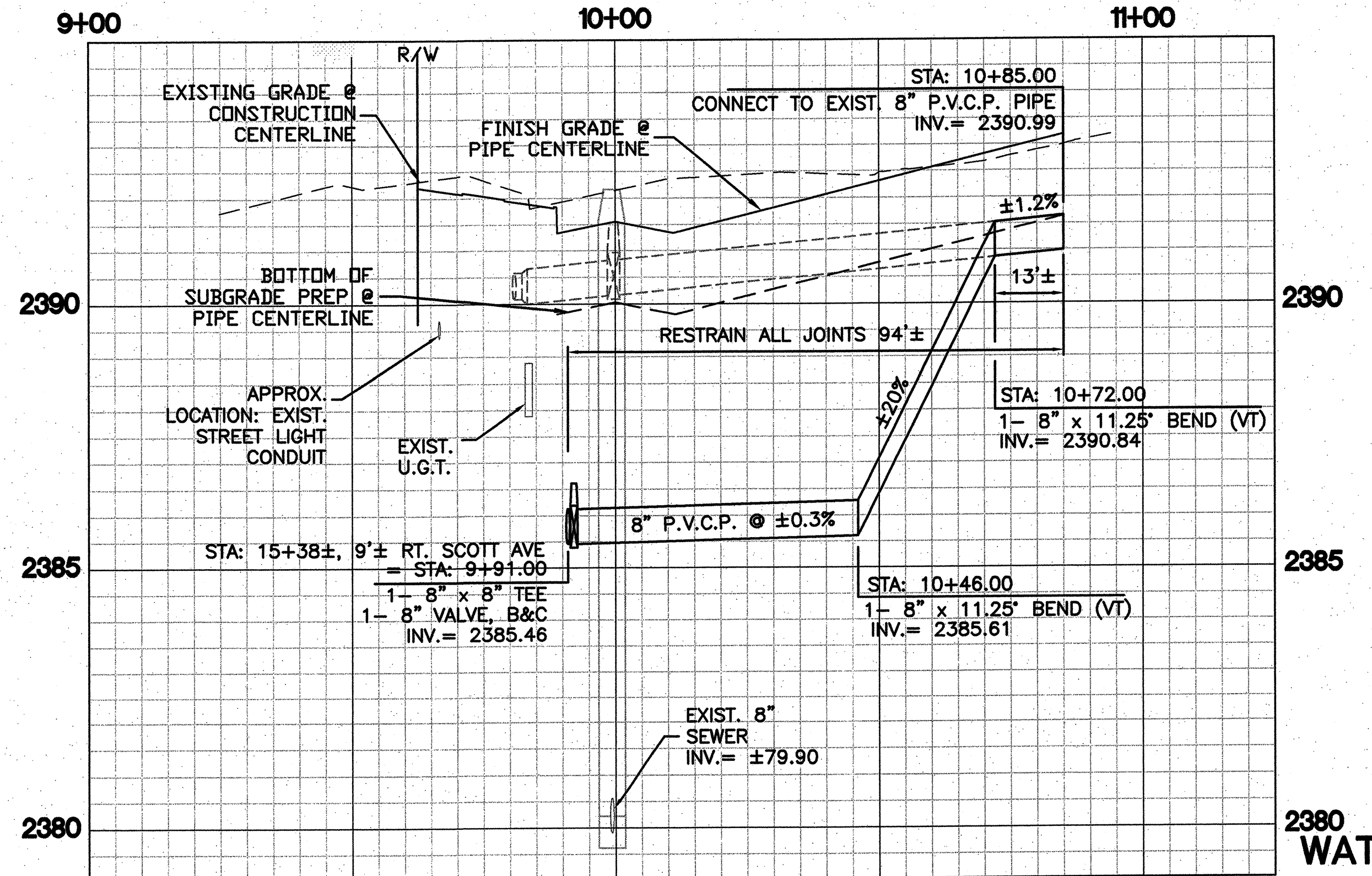
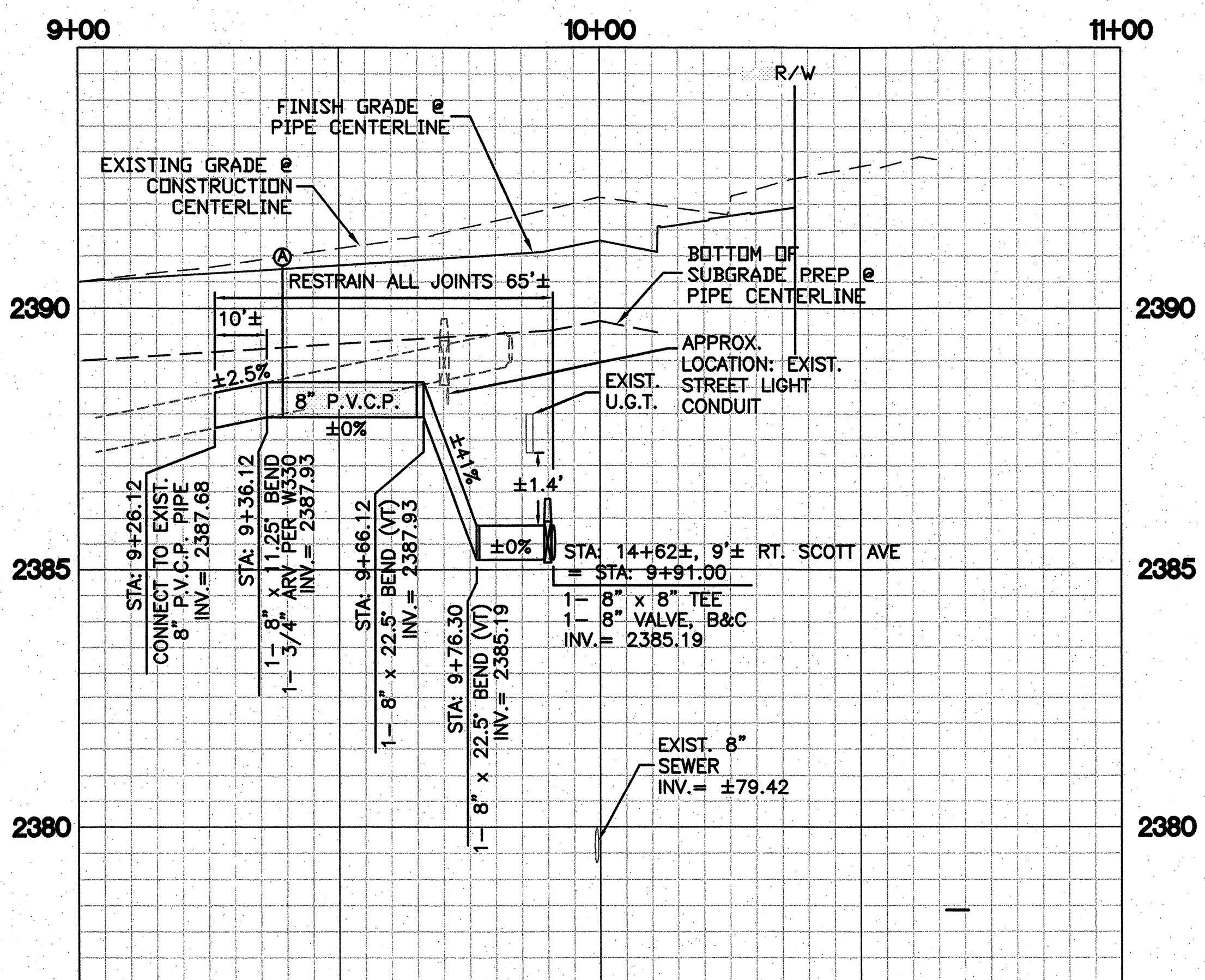
OCHOA STREET
 14+62± SCOTT AVE. =
 10+00 ROADWAY CENTERLINE



12th STREET
 15+38± SCOTT AVE. =
 10+00 ROADWAY CENTERLINE

NOTE:
 SEE SHEET W13 FOR
 SERVICE WORK TABLE.

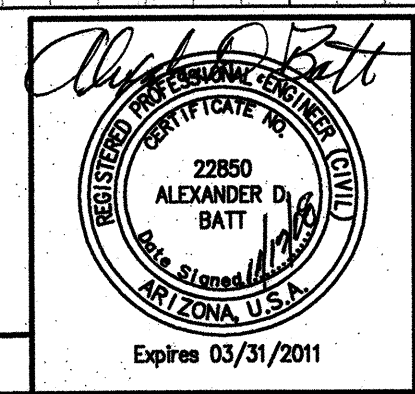
NOTE:
 CONTRACTOR TO REPLACE ALL EXISTING
 METERS WITH AUTOMATIC METER READERS
 (AMR) SUPPLIED BY TUCSON WATER.
 CONTRACTOR WILL REPLACE ALL EXISTING
 METER BOXES WITH NUMBER TWO HOPE
 BOXES AT HIS EXPENSE.



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WATER PLANS



DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
 SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

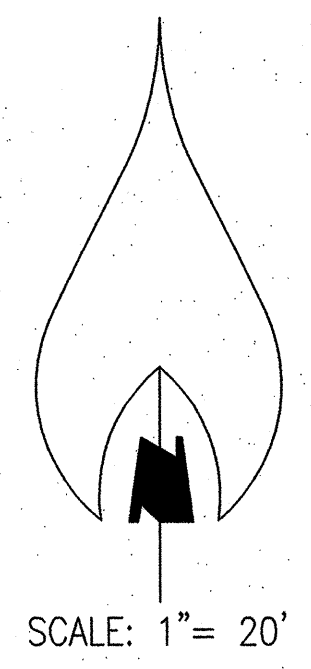
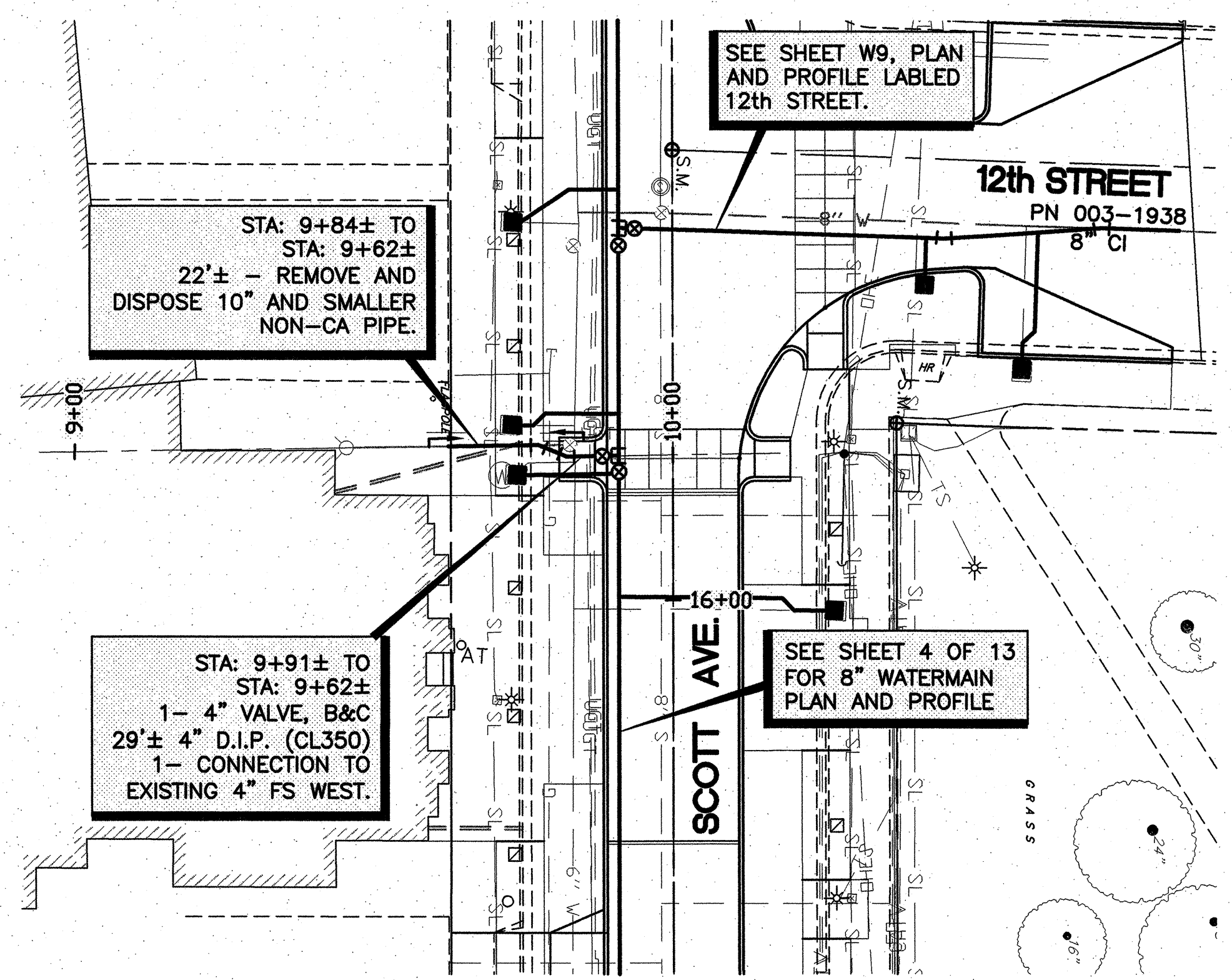
W9 OF 67
 W13 OF 71

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

REF. U-WTDT02 SCALE: 1"=20' H
 1"=2' V
 PLAN NO. I-2008-027

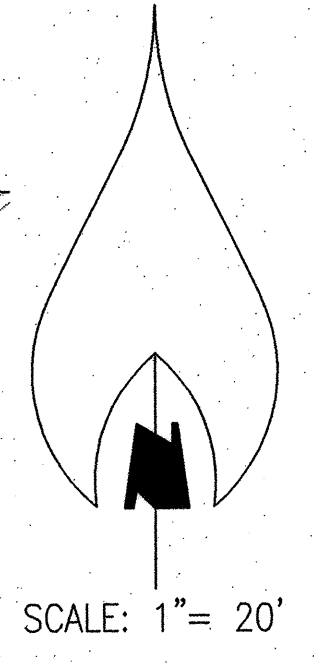
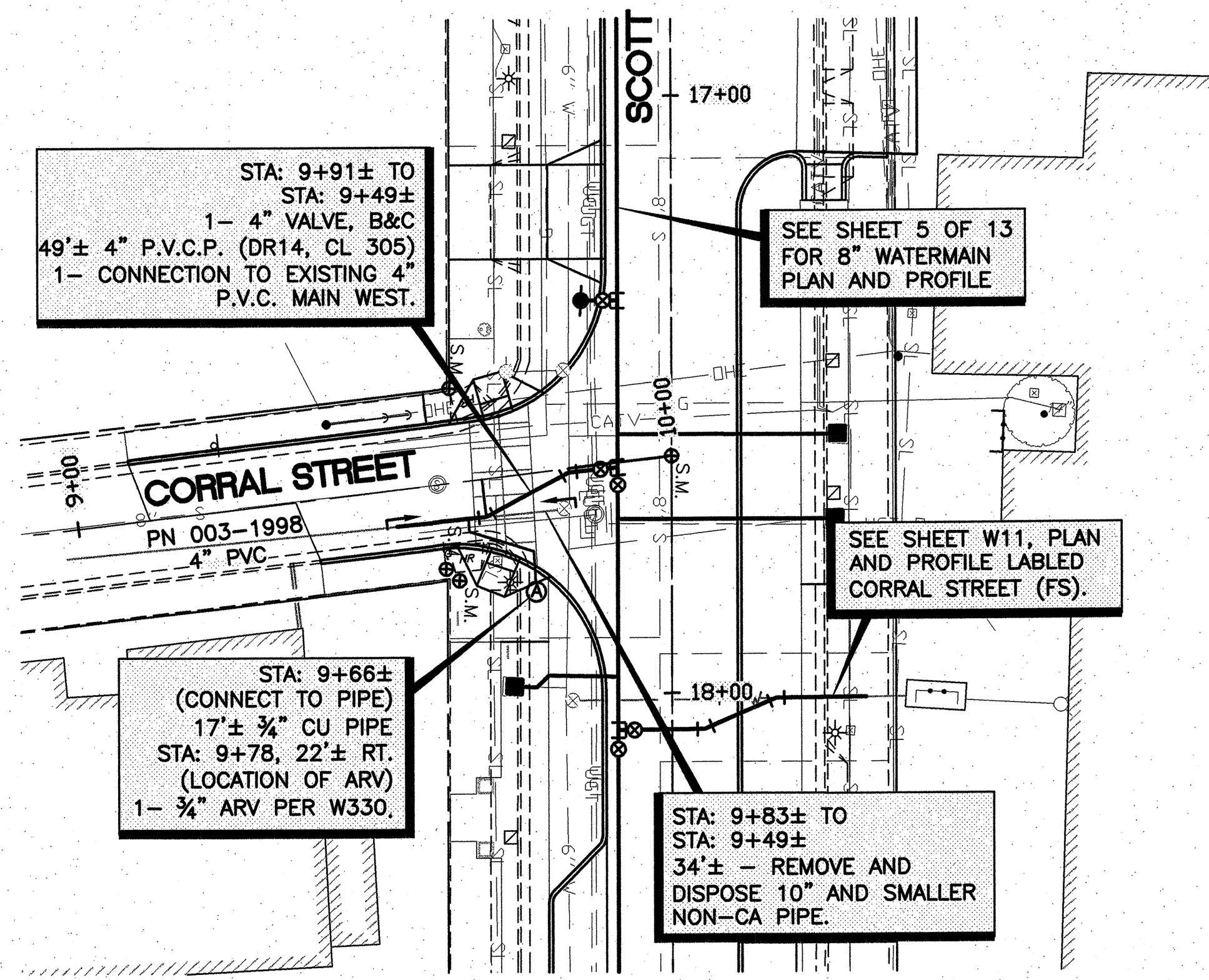
NO.	DATE	REVISION	BY	CHKD.	APPR.

W9 OF 67
 W13 OF 71
 I-2008-027



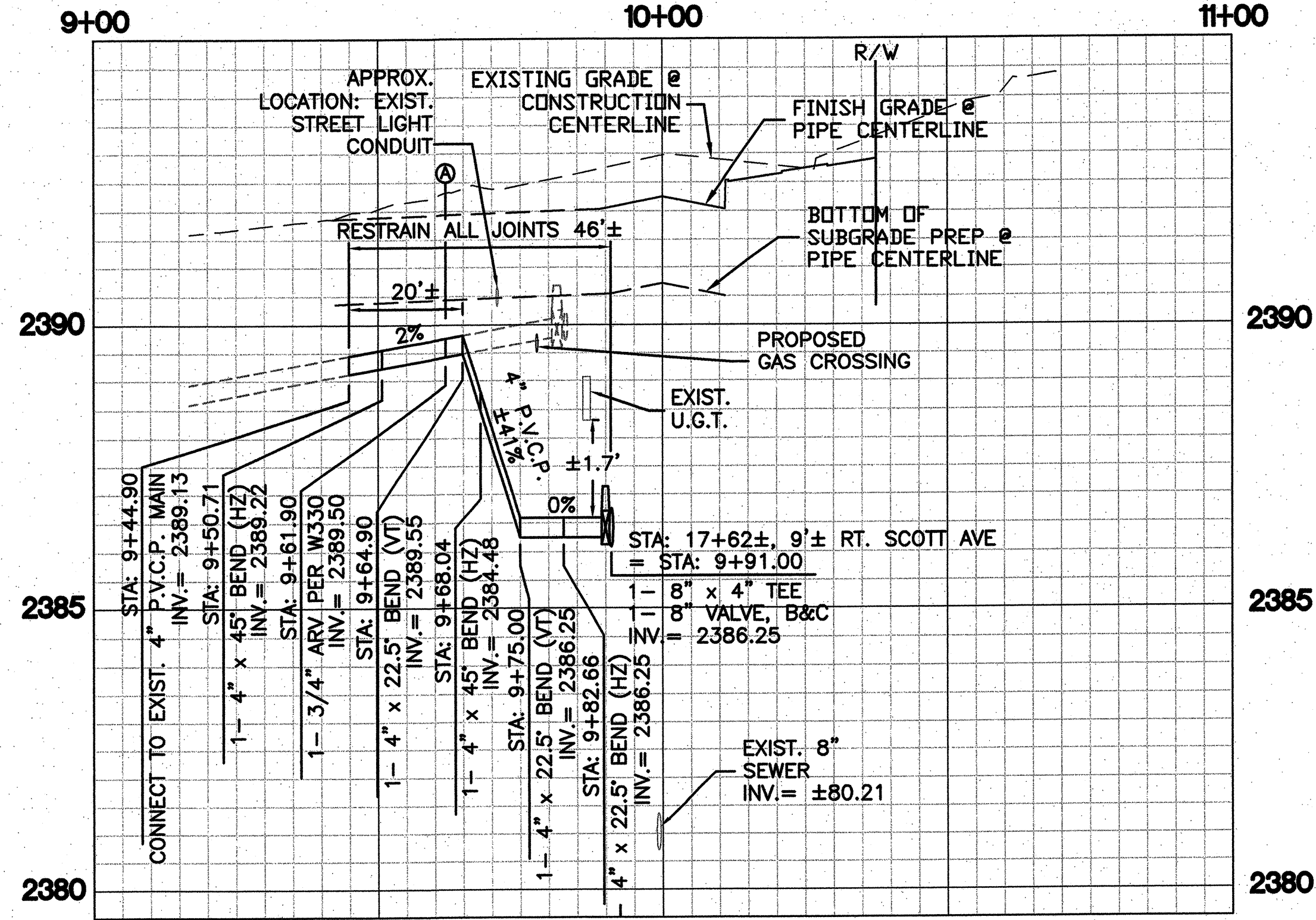
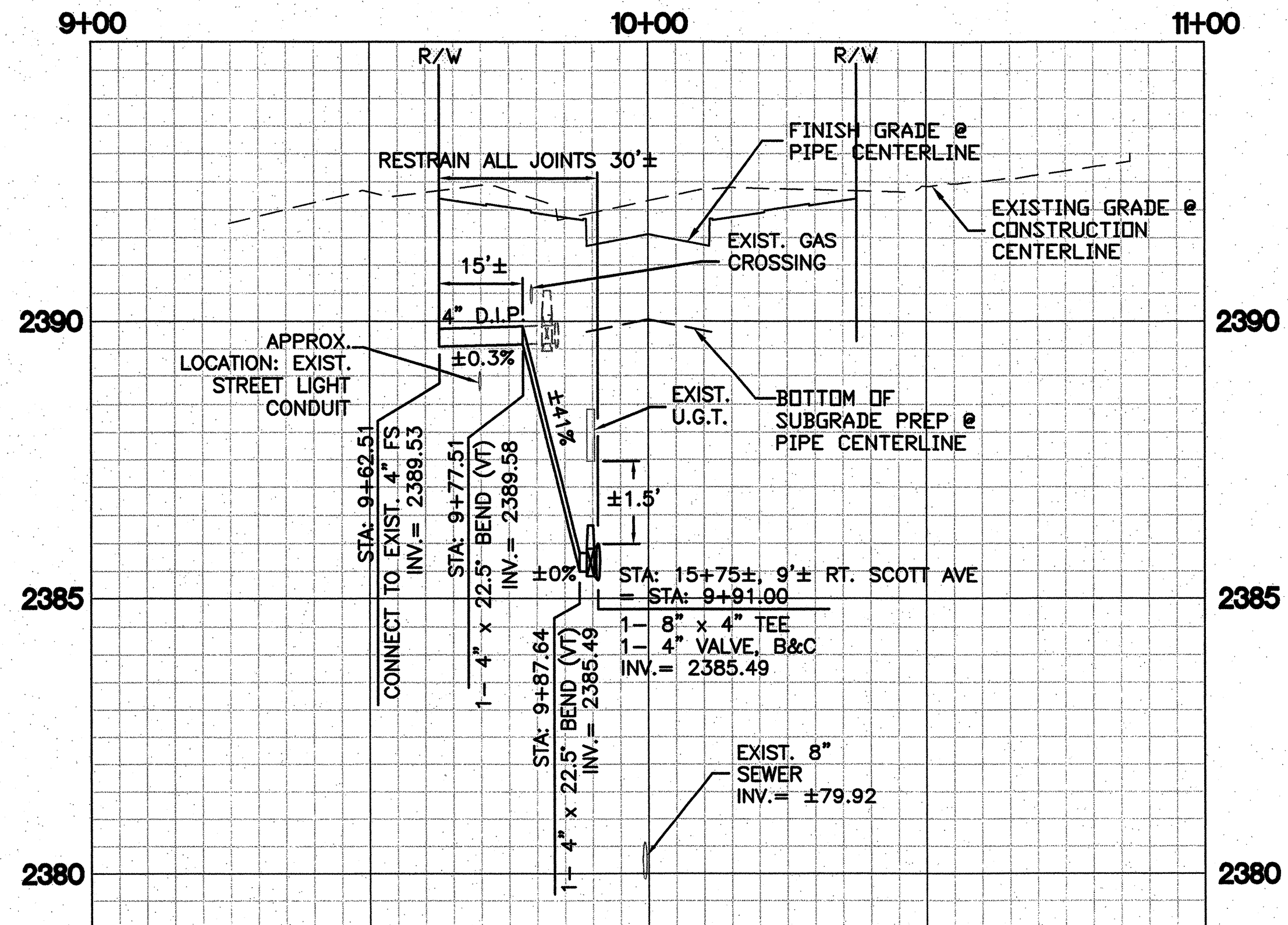
12th STREET (FS)

15+46± SCOTT AVE. =
10+00 ROADWAY CENTERLINE



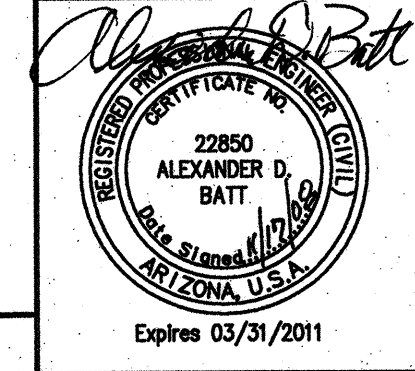
CORRAL STREET

17+62± SCOTT AVE. =
10+00 ROADWAY CENTERLINE



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WATER PLANS



DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

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

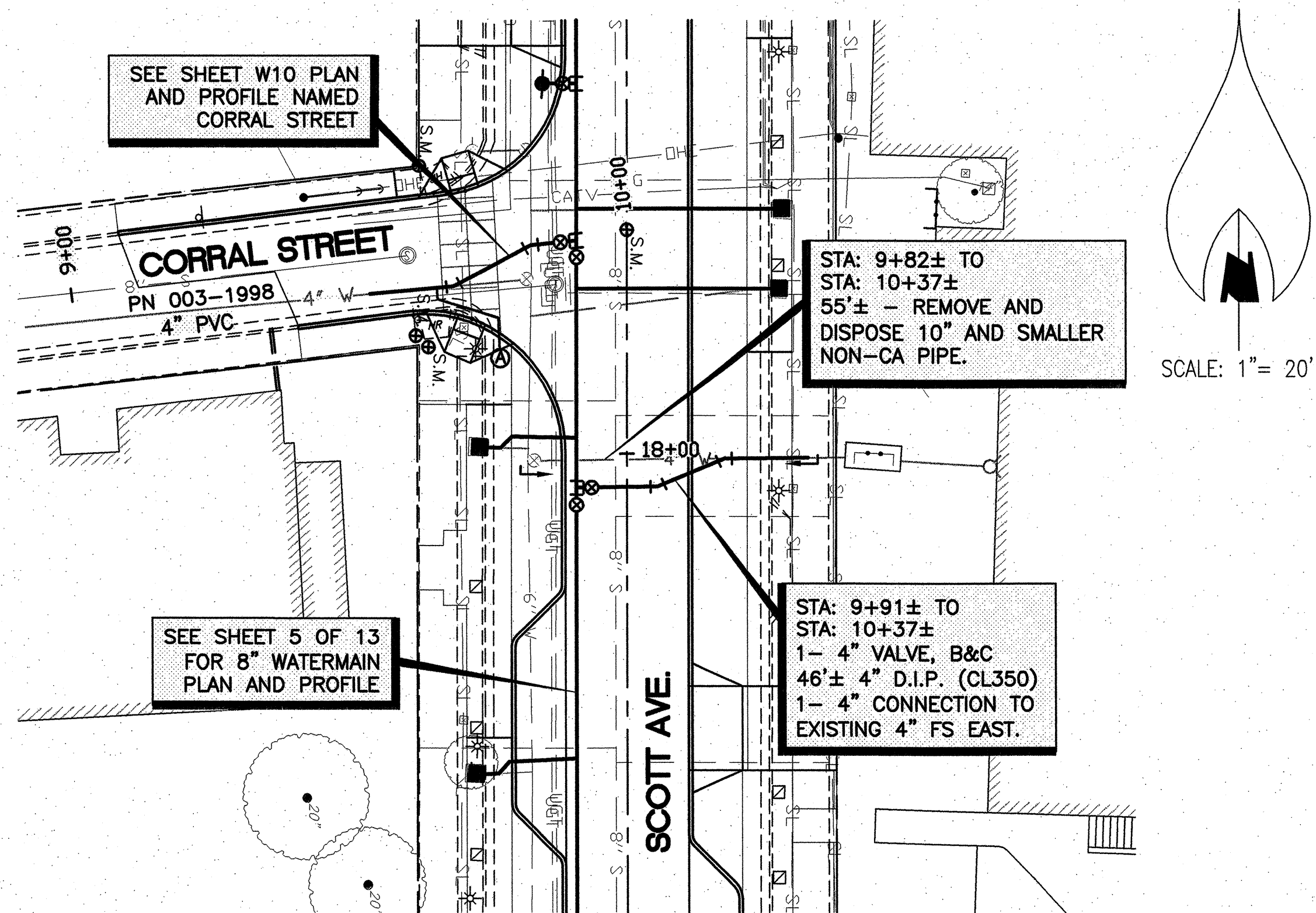
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PLAN NO. I-2008-027

W10 OF W13 68 OF 71

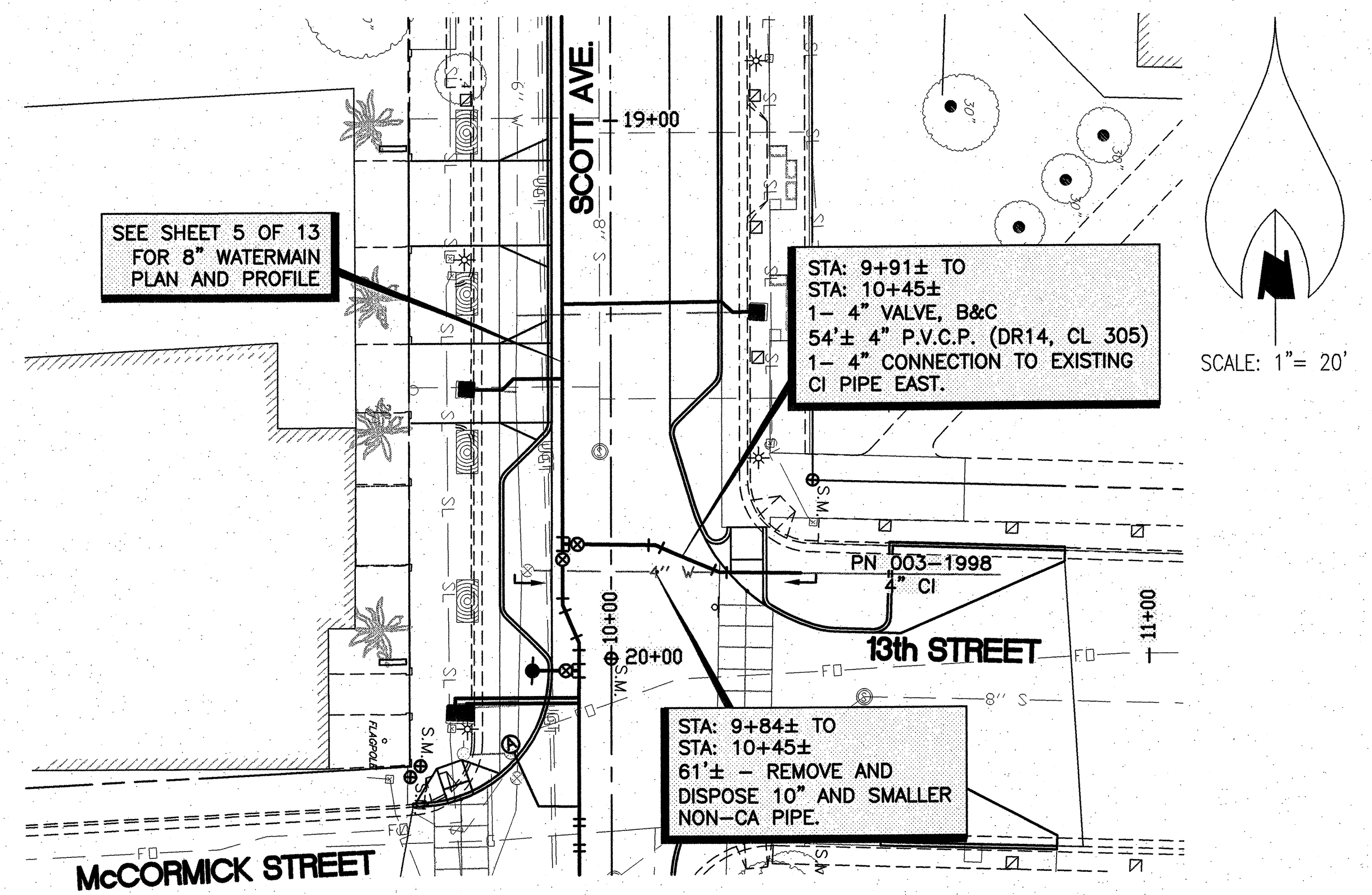
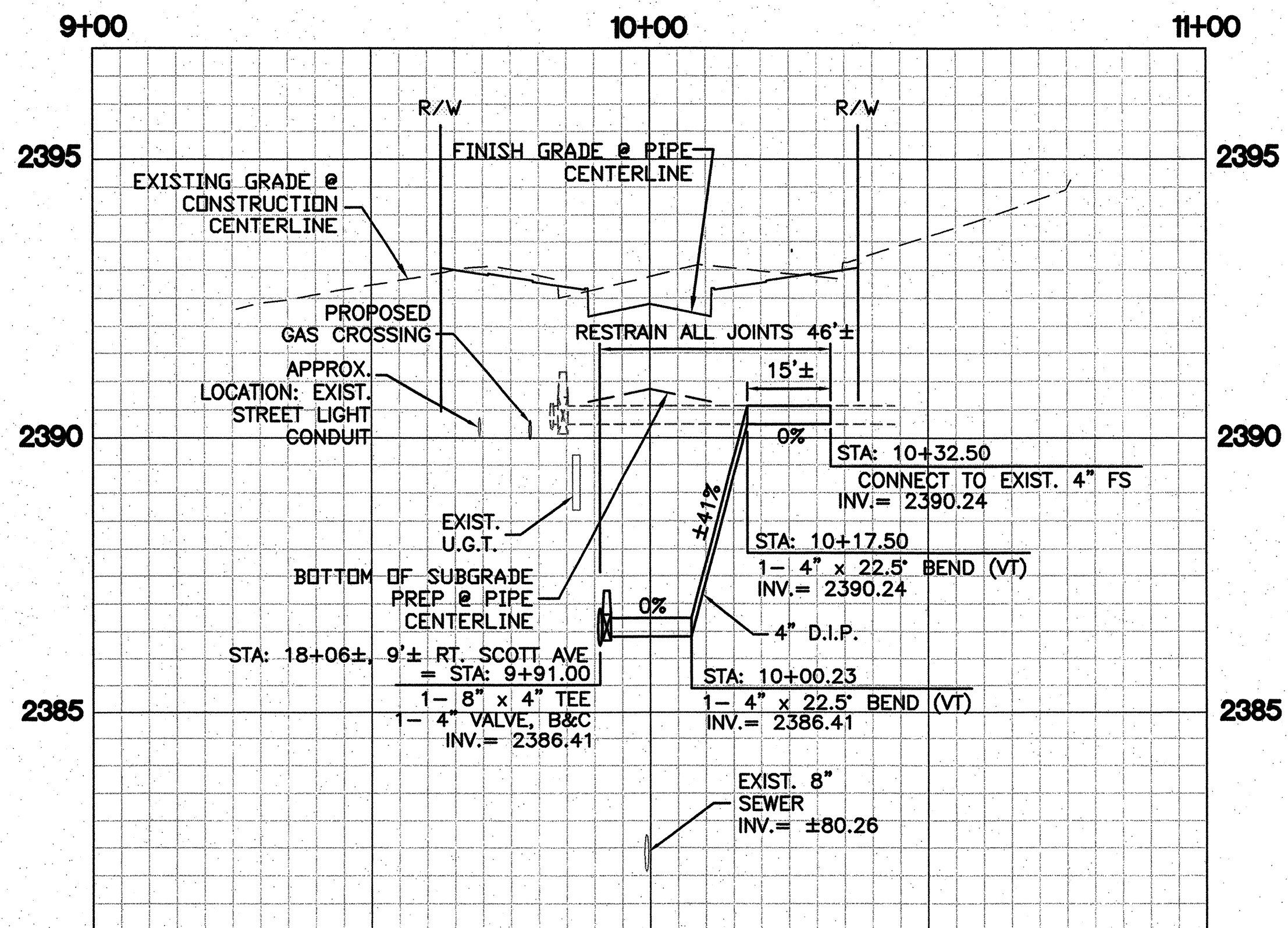
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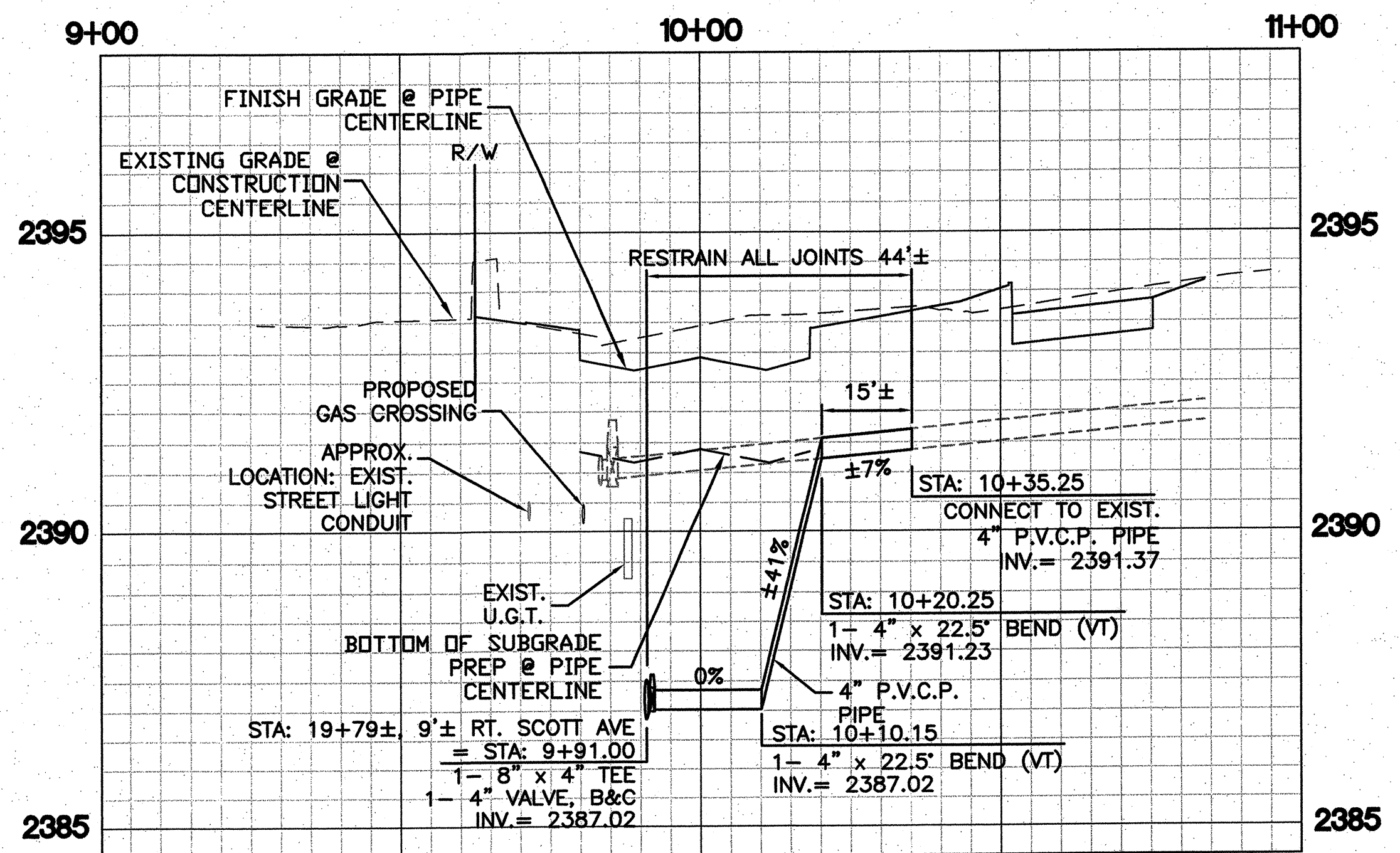
CORRAL STREET (FS)

18+06± SCOTT AVE. =
10+00 ROADWAY CENTERLINE



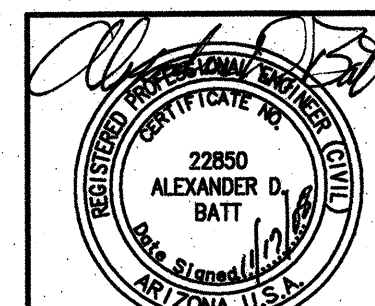
13th STREET

19+79± SCOTT AVE. =
10+00 ROADWAY CENTERLINE



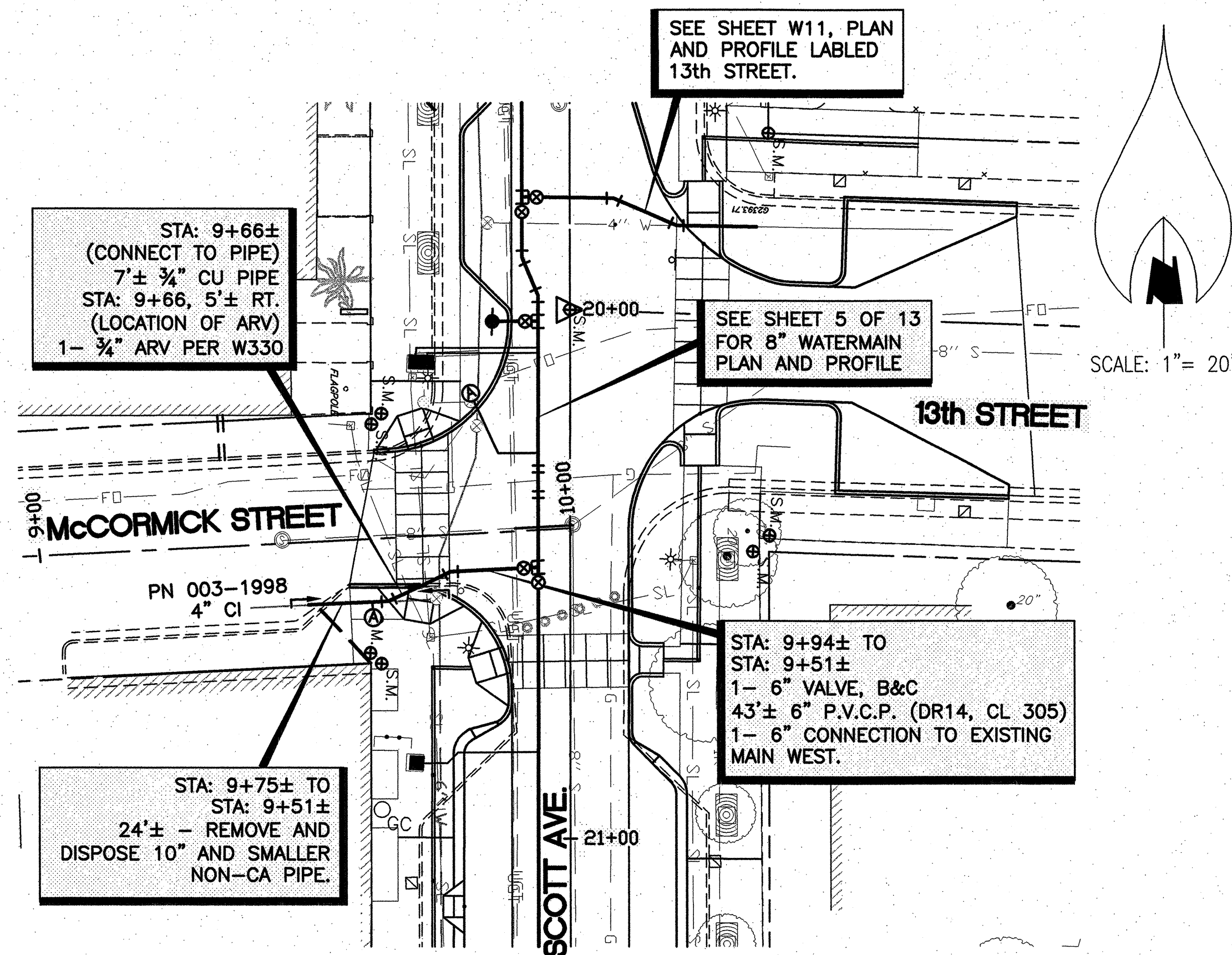
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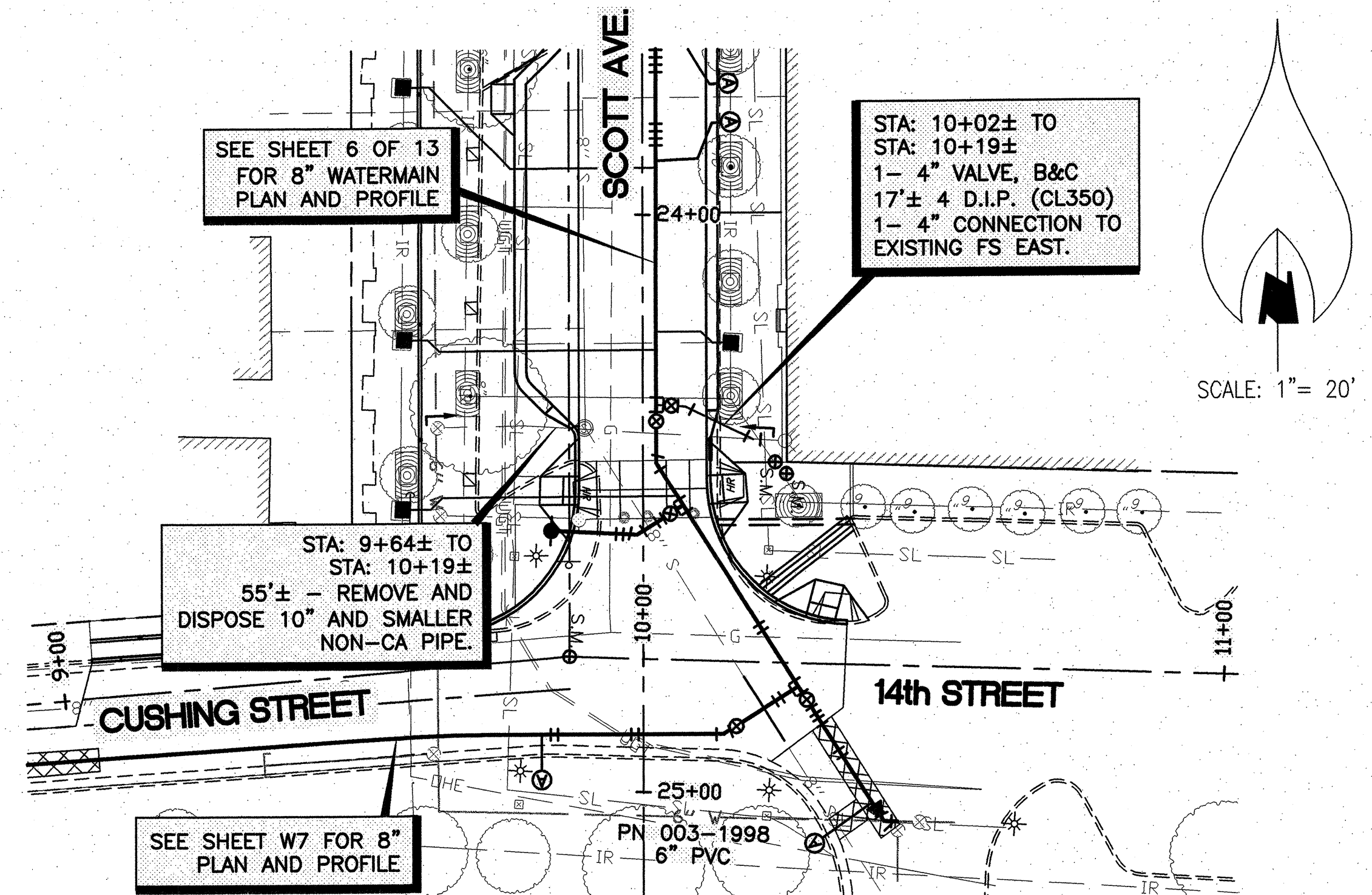
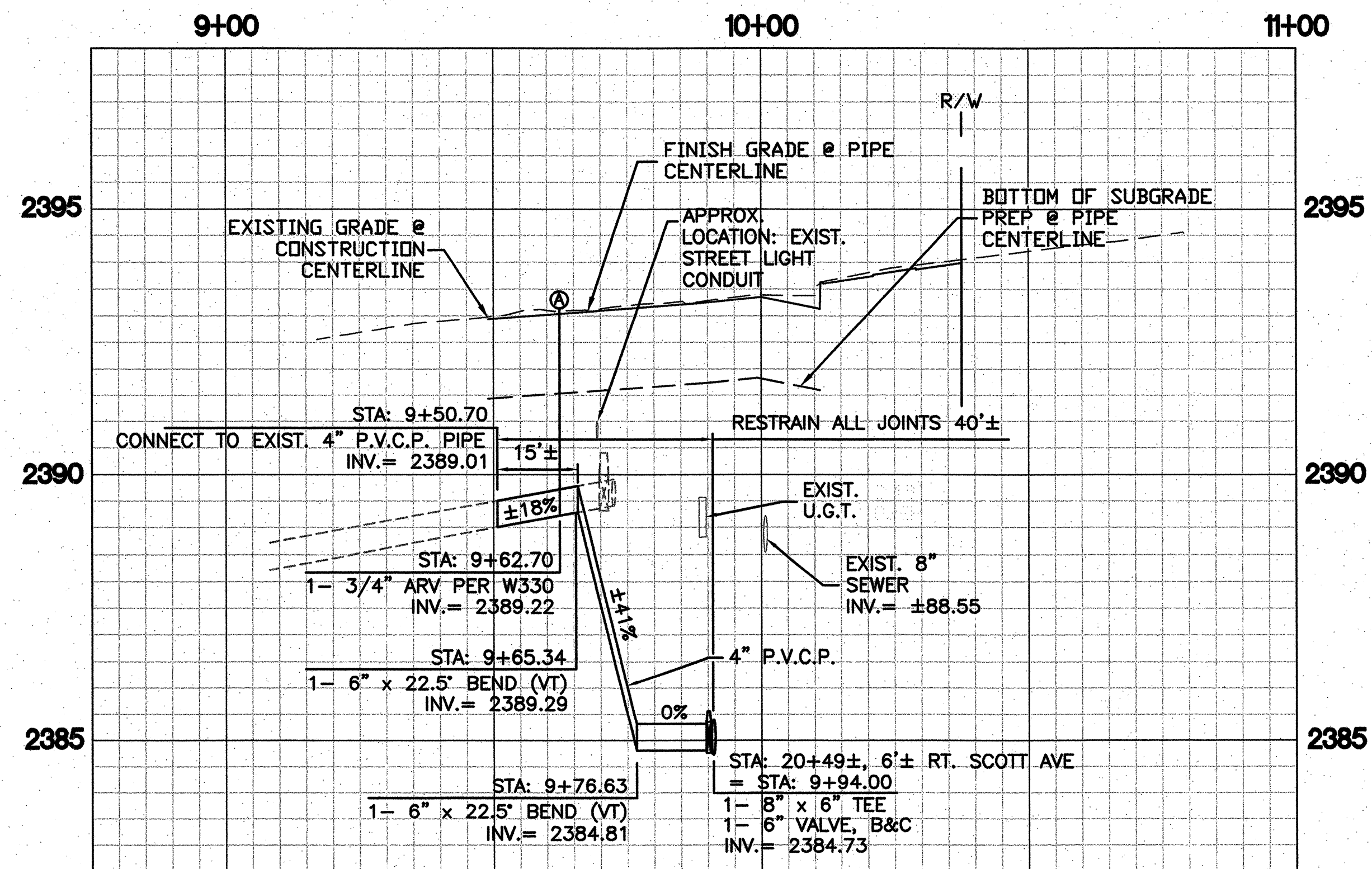


		DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS		W11 OF W13	69 OF 71
		DRWN. BY T. LEACH DSGN. BY B. HOSACK CHKD. BY A. BATT	REF. U-WTDT04 SCALE: 1"=20' H 1"=2' V	PLAN NO. I-2008-027	

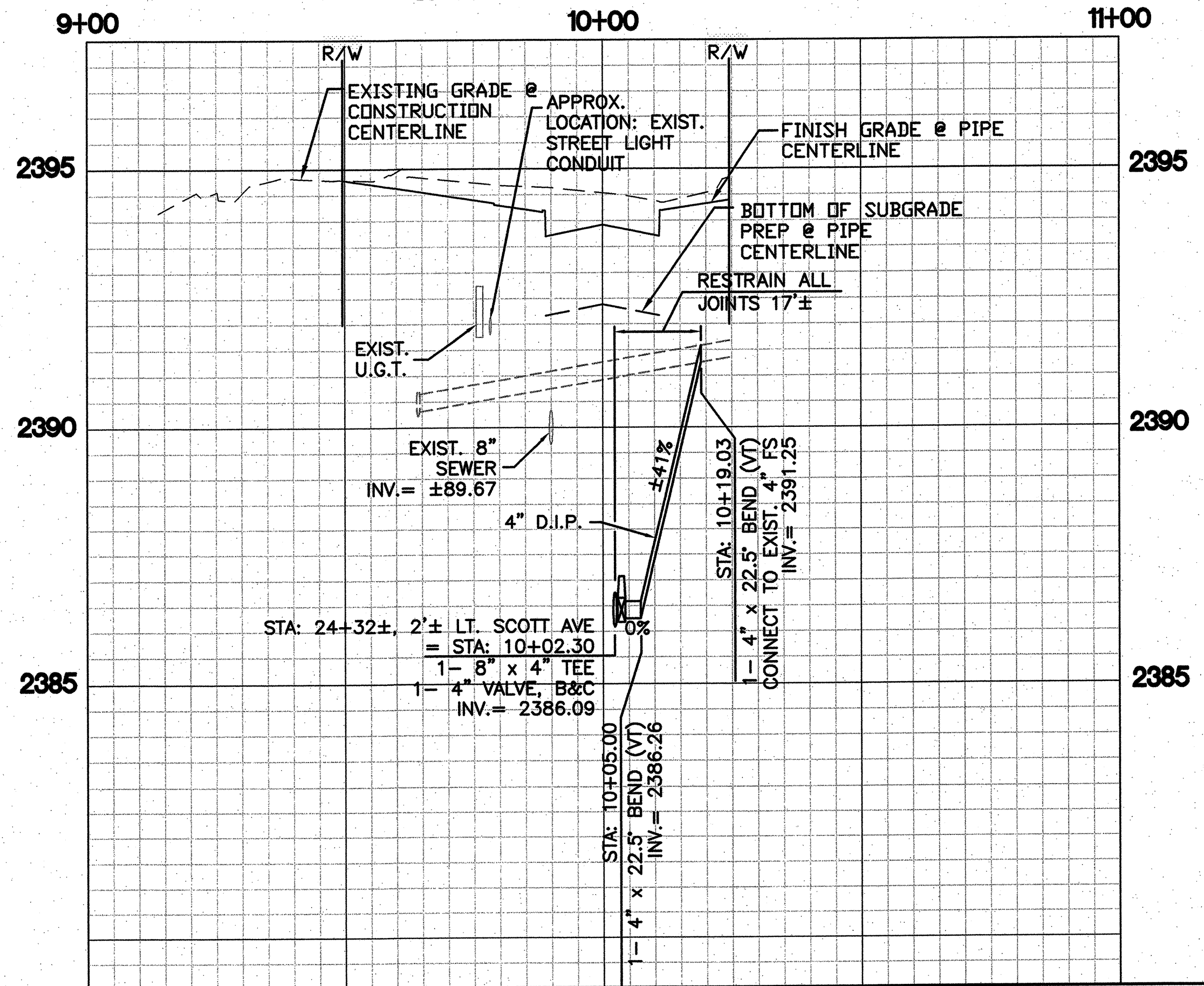
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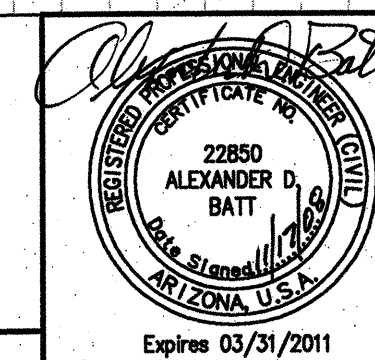
MCCORMICK STREET
20+49± SCOTT AVE. =
10+00 ROADWAY CENTERLINE



14TH STREET (FS)
24+32± SCOTT AVE. =
10+00 ROADWAY CENTERLINE



WATER PLANS



DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

W12 OF W13 70 OF 71



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

REF. U-WTD05 SCALE: 1"=20' H
1"=2' V

PLAN NO. I-2008-027

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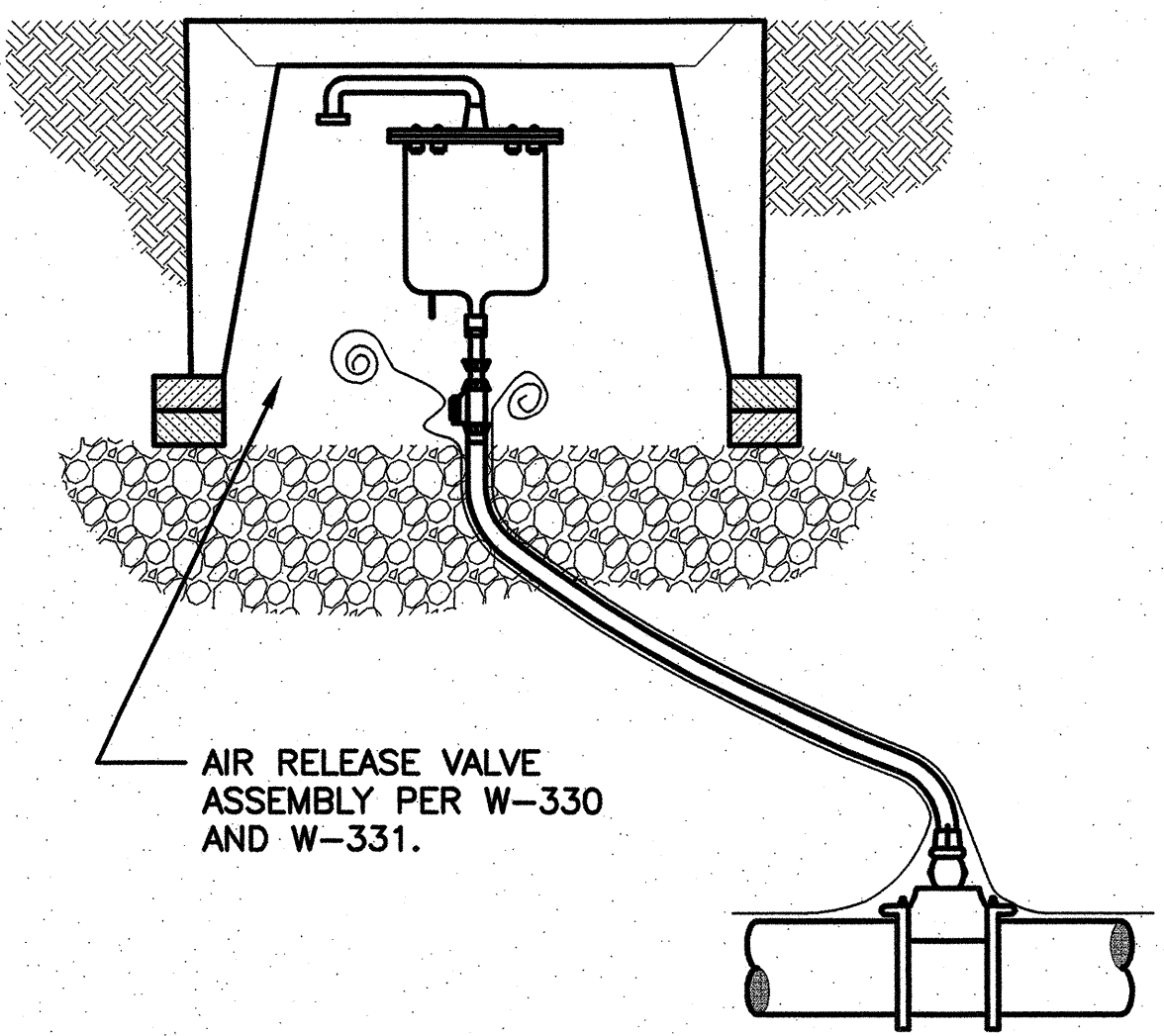
SERVICE WORK					
LOCATION BY SHT. #	CODE	ADDRESS	PIPE SIZE & QUANT. (IN FEET ±)		
			METER NUMBER & SIZE	1"	1 1/2"
SHEET W4	M	130 S SCOTT # 1		18	
	R	23628600	1 1/2"		
	M	130 S SCOTT # 2		18	
	R	11566049	1 1/2"		
	M	160 S SCOTT		19	
	R	20600487	1 1/2"		
	M	160 S SCOTT		18	
R	N/A	5/8"			
SHEET W5	M	STA 15+80		16	
	R	N/A	5/8"		
	M	STA 14+30		36	
	R	N/A	5/8"		
	M	STA 13+70		36	
	R	N/A	5/8"		
	S	STA: 12+46	1"	18	
	M	204 S SCOTT		18	
	R	28793813	5/8"		
	M	204 S SCOTT		18	
	R	CV000007698	5/8"		
	M	236 S SCOTT		18	
	R	37966256	1 1/2"		
	M	236 S SCOTT		24	
	R	CV000007697	5/8"		
	M	236 S SCOTT		22	
	R	29085324	5/8"		
	M	260 S SCOTT		23	
R	90497780	5/8"			
M	STA 19+35		36		
R	N/A	5/8"			
M	STA 17+70		36		
R	N/A	5/8"			
M	STA 17+56		36		
R	N/A	5/8"			
M	STA 16+02		36		
R	N/A	5/8"			
SHEET W6	M	330 S SCOTT		24	
	R	41787558	2"		
	M	330 S SCOTT		46	
	R	42406400	2"		
	M	330 S SCOTT		43	
	R	N/A	5/8"		
	M	336 S SCOTT		48	
	R	90497781	5/8"		
	M	344 S SCOTT		44	
	R	13887652	5/8"		
M	346 S SCOTT		47		
R	88488422	5/8"			
M	343 S SCOTT		13		
R	44239296	1"			
M	287 S SCOTT (IN SHOP)		13		
R	8026198	5/8"			
M	285 S SCOTT		13		
R	12540831	5/8"			
M	281 S SCOTT		31		
R	28879345	5/8"			
M	277 S SCOTT		35		
R	5038332	5/8"			
M	273 S SCOTT		35		
R	34649717	5/8"			
SHEET W7	M	STA: 8+65		21	
	R		5/8"		
SHEET W9	M	STA: 10+62		23	
	R		5/8"		
	S	STA: 10+43		7	
TOTAL QUANTITIES OF CU PIPE FOR SERVICE WORK ONLY			746	55	70

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

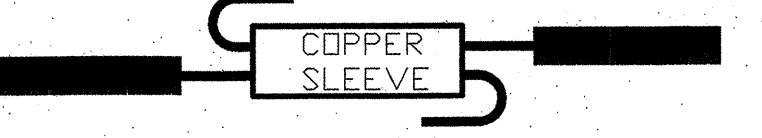
NOT TO SCALE



- 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

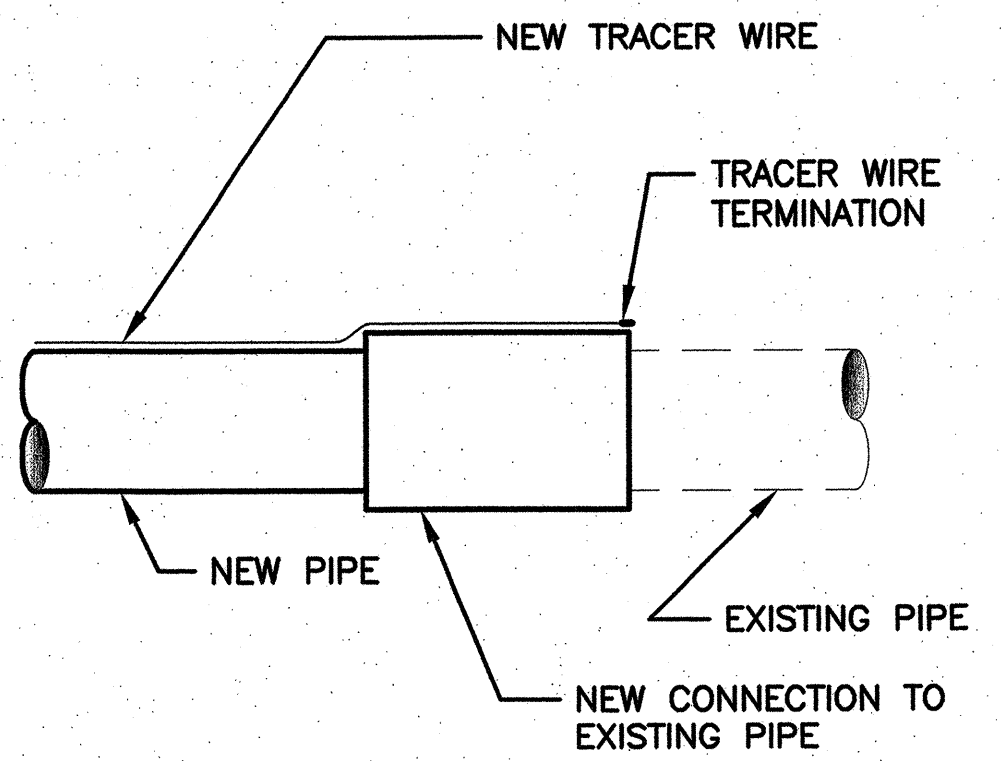
NOT TO SCALE



2 TRACER WIRE - SPLICE DETAIL

NOT TO SCALE

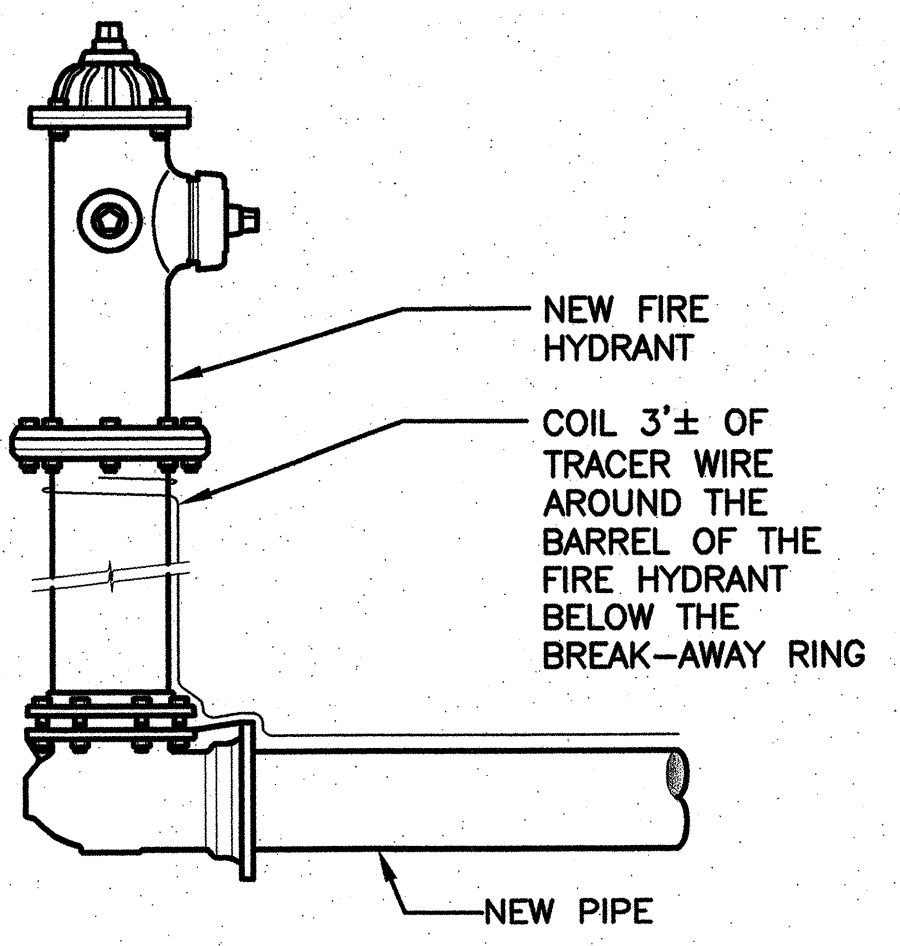
- NOTES:**
- THE INSULATION SHALL BE STRIPPED FROM THE WIRE EXPOSING ENOUGH BARE WIRE TO EXTEND APPROXIMATELY 1/2" BEYOND THE END OF THE COPPER SLEEVE.
 - THE COPPER SLEEVE SHALL BE OF THE APPROPRIATE SIZE FOR 12 GAUGE WIRE AND INTENDED FOR THIS PURPOSE.
 - CRIMP THE SLEEVE ON THE WIRE WITH A CRIMPING 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).



- 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

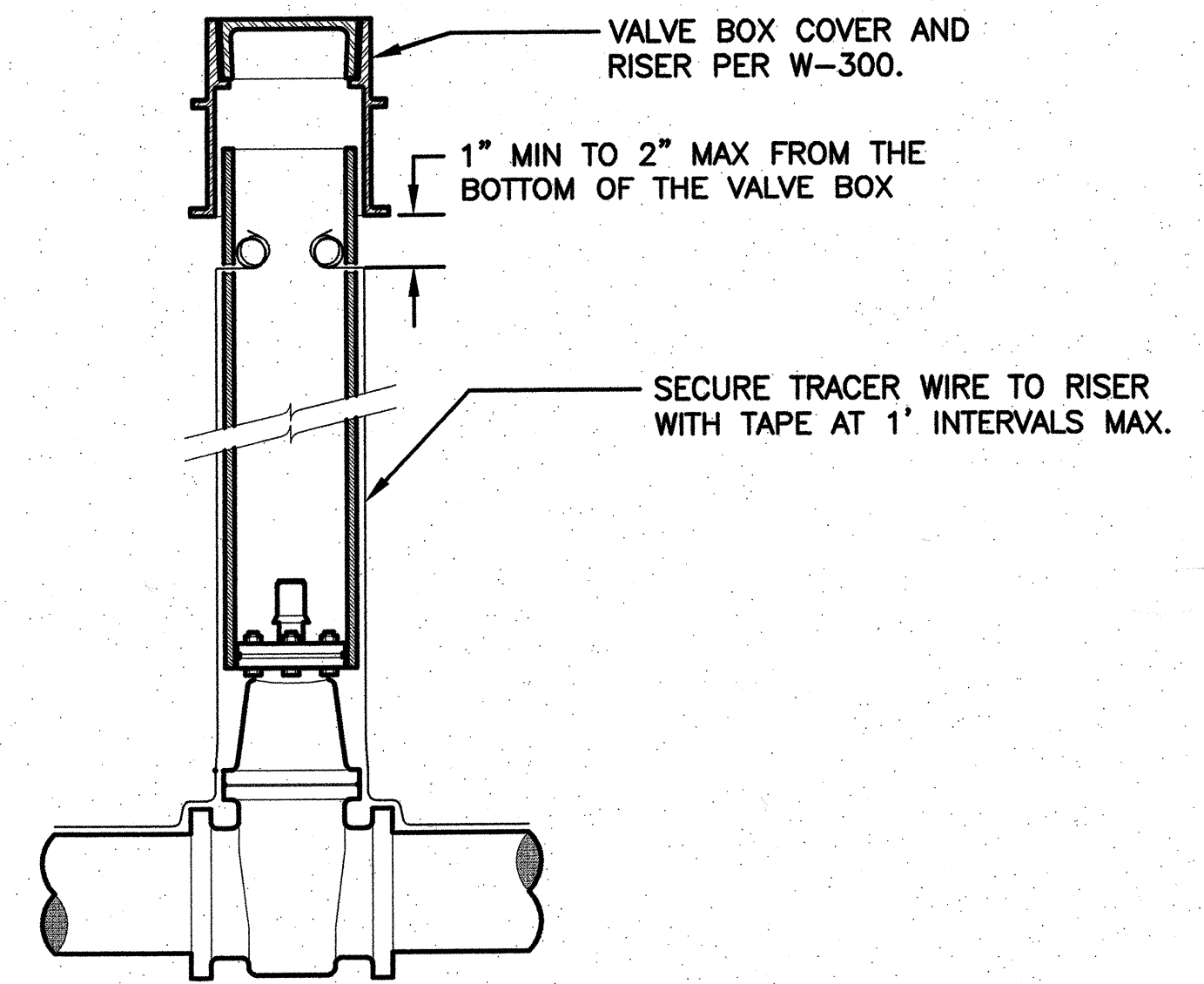
NOT TO SCALE



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

6 TRACER WIRE - FIRE HYDRANT

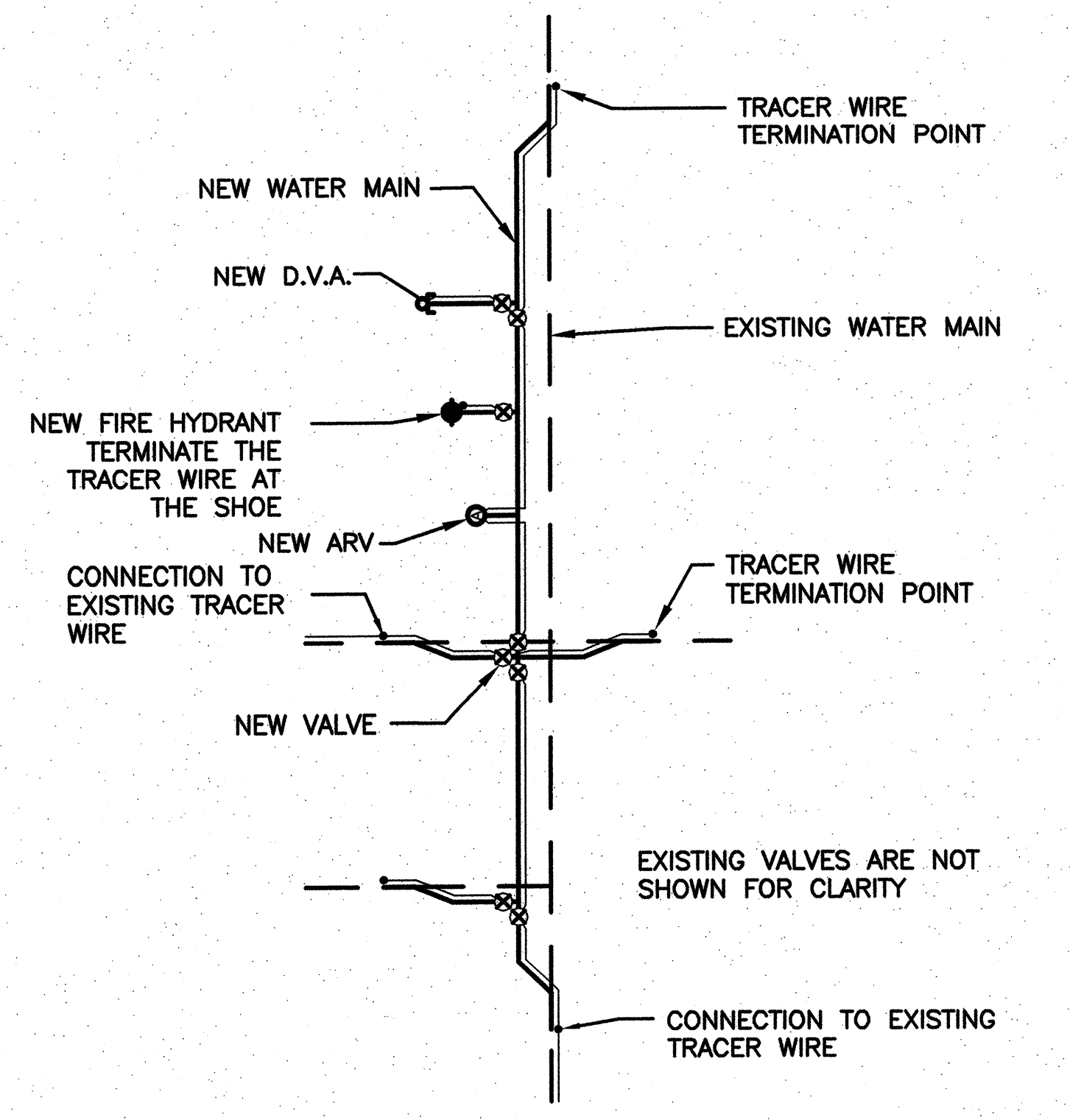
NOT TO SCALE



- 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 PLANS

DOWNTOWN INFRASTRUCTURE IMPROVEMENT PROJECT
SCOTT AVENUE-BROADWAY BLVD. TO 14th ST. WATER SYSTEM MODIFICATIONS

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

REF. U-WDT06 SCALE:
PLAN NO. I-2008-027

W13 OF W13
71 OF 71

CITY OF TUCSON

22850 ALEXANDER D. BATT
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 03/31/2011

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