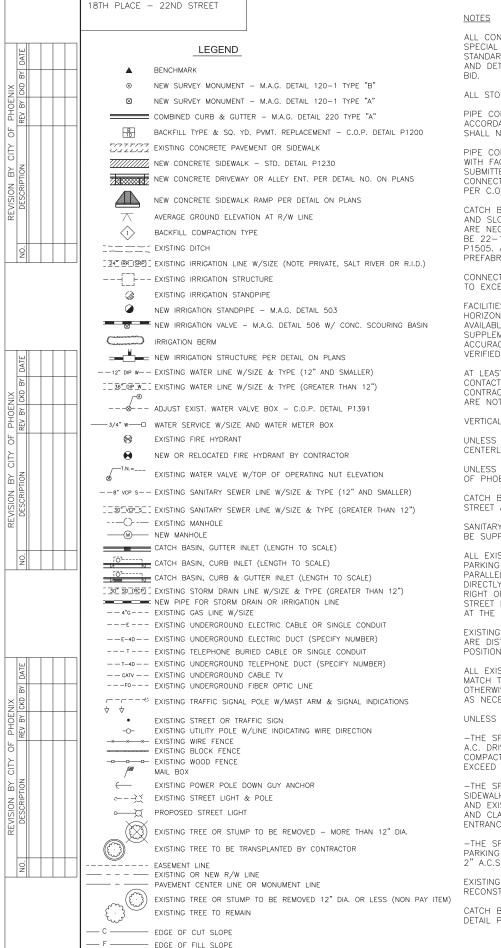


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	9-11 12 13 14 15 16 17-28 29-31	ROADWAY STORM DR CONNECTO ALTERNAT CULVERT STREET LI	NG DETAILS CROSS SECTIONS RAIN PLAN OR PIPE PROFILES TE PIPE CHART			
	32-51 52-54 55-60 61-64 65-68	SPECIAL N ADOT CHA ADOT SD T	PE PLANS MANHOLE DETAILS NNNEL AS-BUILT DR 7.01 DRAWINGS ET LIGHT PLANS	AWINGS		
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RIVERVIEW DRIVE PHOENIX STREET - MARICOPA CO.



LEGEND AND NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, CITY OF PHOENIX SUPPLEMENTS TO MAG STANDARD SPECIFICATIONS AND DETAILS, AND MAG STANDARD SPECIFICATIONS AND DETAILS, IN THAT ORDER OF PRECEDENCE, AT THE TIME OF CONSTRUCTION

ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.

PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. CONNECTION TO MAINS SHALL NOT BE CLOSER THAN 5', CENTER TO CENTER.

PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS, SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER C.O.P. DETAIL P1576.

CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22–1/2 . THE BEND SHALL BE COLLARED ACCORDING TO C.O.P. DETAIL P1505. ANY ANGLE BENDS GREATER THAN $22{-}1/2$ Shall BE PREFABRICATED

CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2 FROM PERPENDICULAR.

FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION

AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.

VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY

UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.

UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.

CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.

SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER M.A.G. DETAIL 403-1, 403-2, OR 403-3.

ALL EXISTING PRECAST CONCRETE SAFETY CURBS AND ALL EXISTING WOODEN PARKING CURBS WHICH ARE INSIDE THE RIGHT OF WAY AND APPROXIMATELY PARALLEL TO THE NEW CURB LINE, SHALL BE RESET ON THE RIGHT OF WAY DIRECTLY OPPOSITE THEIR EXISTING LOCATION, WITH THE BACK EDGE ON THE RIGHT OF WAY LINE. ALL OTHER PRECAST CONCRETE SAFETY CURBS INSIDE THE STREET RIGHT OF WAY SHALL BE SALVAGED AND STOCK PILED FOR THE OWNER AT THE RIGHT OF WAY LINE

EXISTING PRECAST CONCRETE SAFETY CURBS OUTSIDE THE RIGHT OF WAY, WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE RESET IN THEIR ORIGINAL POSITION BY THE CONTRACTOR.

ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY

UNLESS OTHERWISE PROVIDED ON THE PLANS:

-THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING A.C. DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.

-THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING P.C.C. DRIVEWAYS SHALL BE FILLED WITH P.C.C.. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.

-THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABUT THE $\rm R/W$ SHALL BE FILLED WITH 2" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.

EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.

CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561

STRUCTURAL NOTES

"CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.

ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.

ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601-3.05 FINISHING CONCRETE, UNLESS OTHERWISE SPECIFIED.

WATER NOTES

STREET TRANSPORTATION CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS.

ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS P1391. TYPE A ONLY.

ALL CONSTRUCTION IN CITY OF PHOENIX RIGHT-OF-WAY, OR EASEMENT, IS TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE

ALL DUCTILE IRON PIPE WATER MAIN VALVES, FITTINGS, AND BENDS SHALL BE RESTRAINED. RESTRAINED JOINT REQUIREMENTS AND APPROVED RESTRAINING SYSTEM ARE SHOWN IN CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS, SECTION 750.3. THE LENGTH OF THE RESTRAINTS MUST BE PER M.A.G. STANDARD DETAIL 303–1 AND 303–2. THRUST BLOCKS ARE NOT ALLOWED TO BE USED IN LIEU OF APPROVED RESTRAINED JOINT SYSTEMS THRUST BLOCKS CAN BE USED IN ADDITION TO THE APPROVED RESTRAINED JOINT SYSTEMS WHERE A SPECIFIC CITY OF PHOENIX SUPPLEMENT TO M.A.G. STANDARD DETAIL CALLS OUT FOR THRUST BLOCKING, SUCH AS CURRENT DETAILS, P1343, P1351, AND P1360 OR WHEN OTHERWISE APPROVED BY THE WATER SERVICES DEPARTMENT.

THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED: 302-1 JOINT RESTRAINT WITH TIE RODS 302-2 JOINT RESTRAINT WITH THE RODS - ANCHOR BLOCKS 321 STANDARD WATER METER VAULT 345–1 3", 4", AND 6" WATER METER 345-2 4" AND 6" WATER METER WITH ON-SITE FIRE HYDRANTS 370 VERTICAL REALIGNMENT OF WATER MAINS 381 ANCHOR BLOCKS FOR VERTICAL BENDS 390 CURB STOP WITH FLUSHING PIPE 391-1 VALVE BOX INSTALLATION

COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 & CITY OF PHOENIX SUPPLEMENTS.

NEW WATER LINES ARE TO BE BUILT IN ACCORDANCE WITH THE CITY OF PHOENIX "STANDARD UTILITY LOCATIONS"

THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF PHOENIX SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF PHOENIX'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS. NOR SHALL IT PREVENT THE CITY OF PHOENIX FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S) /CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES. ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

PIPE DEFLECTION SHALL BE PER MANUFACTURERS' RECOMMENDATIONS.

ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL

THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.

A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF UNDERGROUND UTILITY

A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY

A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER MAIN AND STORM DRAIN CROSSING A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE M.A.G. STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.

EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER AND SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.

ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE

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WATER NOTES (CONTIN

- WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN WATER SERVICES AT THE END OF CUL-DE-SACS MAY VARY AS NECESSARY, BUT WILL BE APPROVED ON A CASE BY CASE BASIS.
- ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX
- NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK RAMP
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING POLICY P-68. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: HTTPS://WWW.PHOENIX.GOV/WATERSERVICESSITE/DOCUMENTS/WSDEPOL68.PDF
- IN ACCORDANCE WITH AAC R-18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61
- A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKELL, COMPACTION AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES ARE ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE

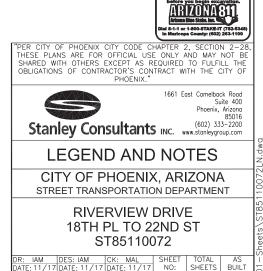
PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

THIS PLAN IS APPROVED SUBJECT TO COMPLETION OF LINES LABELED "EXISTING" WHICH HAVE BEEN PROPOSED AS PART OF ANOTHER DEVELOPMENT. THE DEVELOPED OF THIS PROJECT MAY BE REQUIRED TO CONSTRUCT THOSE LINES PER CITY REQUIREMENTS PRIOR TO RECEIVING SERVICE FOR THIS PROJECT,

ALL DUCTILE IRON PIPE WATER MAINS WILL BE POLYETHYLENE WRAPPED PER C.O.P. SUPPLEMENT TO M.A.G. SPECIFICATIONS SECTION 750.2 AND M.A.G. SPECIFICATIONS SECTION 610.6.2 AND 610.6.3

- JOINT RESTRAINT LIMITS PER M.A.G. STANDARD DETAIL 303-1 AND 303-2 MUST BE SHOWN ON ALL WATER MAIN CONSTRUCTION PLANS WHICH REQUIRE A PROFILE IN ADDITION TO PLAN VIEW.
- WHEN THE PROPOSED WATER MAIN COMES INTO CONFLICT WITH ANOTHER UTILITY AND A VERTICAL RE-ALIGNMENT IS NECESSARY, THE RE-ALIGNMENT MUST BE APPROVED ON THE PROPOSED WATER MAIN PLAN OR THE ENGINEER MUST SUBMIT A SEPARATE WATER - VERTICAL RE-ALIGNMENT PLAN (DETAIL DCE-D01) PER THE WATER - VERTICAL RE-ALIGNMENT CHECKLIST. THE WATER- VERTICAL REALIGNMENT DETAIL CAN BE LOCATED AT THE FOLLOWING WEBSITE: HTTP://WWW.PHONEIX.GOV/WATERSERVICES/DESIGN/ENGDETAILS/INDEX.HTML

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RIVERVIEW DRIVE

PHOENIX STREET - MARICOPA CO.

18TH PLACE - 22ND STREET

		ITEM No.	DESCRIPTION	UNIT		1			1				SHE	EET N	M S NUME	BERS		<u> </u>
+	No.				6	7	8	9	10	11	14	17	29	32	40	45		\downarrow
	1		ALLOWANCE FOR STORM WATER POLLUTION PREVENTION BEST MANAGEMENT PRACTICES (BMP'S)	JOB														
-	2		ALLOWANCE FOR EXTRA WORK	JOB														
	3		ROADWAY EXCAVATION, INCLUDING HAUL	СҮ										275				\vdash
	4	M2204001	ROCK RIPRAP, SEE PLANS/SPECS	SF											798			
	5	M2205055		SY										18				
	6		SUBGRADE PREPARATION	SY	1591	1598	1210											$ \longrightarrow $
	7	М3100000	AGGREGATE BASE COURSE	TON										124				\square
	8	M3210101	ASPHALT CONCRETE SURFACE COURSE, TYPE $C-3/4$ FOR DRIVEWAY, SIDEWALK & PARKING LOT CONNECTIONS	TON	54		18											\square
	9		ASPHALT CONCRETE SURFACE COURSE, TYPE D-1/2, 2" THICK	TON	146	180	103											
	10		ASPHALT CONCRETE SURFACE COURSE, TYPE D-1/2, 3" THICK	TON										112				
	11		ASPHALT CONCRETE BASE COURSE, TYPE A 1–1/2, 4" THICK	TON	292		207											<u> </u>
	12		EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1h	TON	0.53	0.55	0.34											<u> </u>
	13		POWER BROOM	HR														
	14	M3400400		SF		3277	3302											
	15	M3400415	TRUNCATED DOMES FOR SIDEWALK RAMPS	SF	18		48											
	16		CONCRETE DRIVEWAY ENTRANCE, STD. DETAIL P-1244 (9" THICK)	SF	404		274											<u> </u>
	17	M3400664		SF	482													<u> </u>
	18	M3402201	COMBINED CONCRETE CURB AND GUTTER, STD. DETAIL 220, TYPE "A", H=6"	LF	685	800	421	1										\downarrow
	19	M3402222	CONCRETE SINGLE CURB, STD. DETAIL 222, TYPE "B"	LF	89			1										\vdash
	20	M3440001	SALVAGED CONCRETE HEADER	LF										197				<u> </u>
	21		ADJUST EXISTING TYPE "A" WATER VALVE, STANDARD DETAIL P-1391 AND P-1391-1	ΕA	3		1											
_	22		REMOVE PORTLAND CEMENT CONCRETE SINGLE CURB; CURB AND GUTTER; HEADER CURB OR EMBANKMENT	LF	208		148											
	23		REMOVE PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1417		736											
_	24		REMOVE STRUCTURES, BACKFILL & COMPACT	JOB							1							
	25		REMOVE ASPHALT CONCRETE PAVEMENT	SY	1405		218							37				
	26		REMOVE EXISTING FENCE	LF		140	130											
	27		MISCELLANEOUS REMOVAL AND OTHER WORK	JOB														
	28		REMOVE EXISTING RIP-RAP	SF							185							
	29		REMOVE GABIONS	СҮ								880						
	30		REMOVE EXISTING CANAL LINING PER PLAN	SY		1554												
	31		FURNISH AND INSTALL STREET LIGHT PER C.O.P. STREET LIGHTING PROCEDURES	ΕA									10					
-	32		DECORATIVE STEEL FENCE, HEIGHT = $3'-2''$	LF										38				
	33		DECORATIVE STEEL FENCE, HEIGHT = $6'-0''$	LF										114				
	34		TRAFFIC CONTROL DEVICES	JOB														
	35		SURVEY MARKER, MAG STANDARD DET 120-1, TYPE "B"	ΕA	2	2												
	36		SAFTEY POST / BOLLARD	ΕA		1												
	37		CHAIN LINK FENCE, ADOT STANDARD DETAIL C-12.20, TYPE 2, H=6'	LF		50	107											
	38		DECOMPOSED GRANITE, 3/4" MINUS FOR GENERAL LANDSCAPE	CY											42			\square
	39		DECOMPOSED GRANITE, STABILIZED FOR MULTI PURPOSE TRAIL, 1/4" MINUS 3" THICK	SF											481			\square
	40		1 GALLON SHRUB	ΕA											8			\vdash
	41		5 GALLON SHRUB	ΕA											14			
	42		15 GALLON TREE	ΕA											31			
\top	43		24" BOX TREE	ΕA											8			<u> </u>
	44		15 GALLON CACTUS	ΕA											2			<u> </u>
	45		NATIVE HYDROSEED MIX	SF											26,109	,		\vdash
	46		LANDSCAPE IRRIGATION SYSTEM	JOB												1		
	47	M5050013	CONCRETE CANTILEVER RETAINING WALL ADOT DETAIL SD 7.01	SF	880	1100						1433						
	48		CONCRETE HEADWALL PER DETAIL S5	LF								78						
	49		CONCRETE CATCH BASIN, TYPE "M 1, L=6 FT", COP STANDARD DETAIL P-1569-1	ΕA							2							
	50	M5050041	CONCRETE PARAPET WALL PER DETAIL S11	СҮ								162						
	51		CONCRETE CATCH BASIN, TYPE "R 2, L=3 FT", COP STANDARD DETAIL P-1584	EA				1			2							
	52	M5052062		EA			1	1										
	53	M5052074	CONCRETE CHANNEL LINING PER PLANS	SY								605						
	54	M5055012	HEADWALL FOR 24" PIPE, MAG STANDARD DETAILS 501-1 AND 501-2	ΕA							1							
	55	M5057093	INLET STRUCTURE PER DETAIL S6	ΕA								1						
	56	M5057098	OUTLET STRUCTURE PER DETAIL S6	ΕA								1						
	57	M5057202	2-BARREL REINFORCED CONCRETE BOX CULVERT PER SPECIAL DETAIL	LF								62						
	58	M5155049	TRASH RACK MAG STANDARD DETAIL 502–2	ΕA							1							
	59	115200110	HANDRAIL, PHOENIX SUPP. DETAIL P-1173 (MOD)	LF	160	200					9	110						

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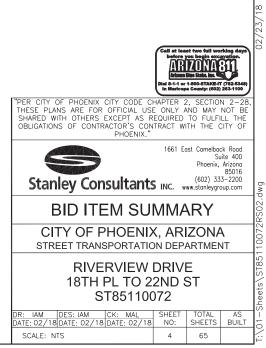
PHOENIX STREET - MARICOPA CO.

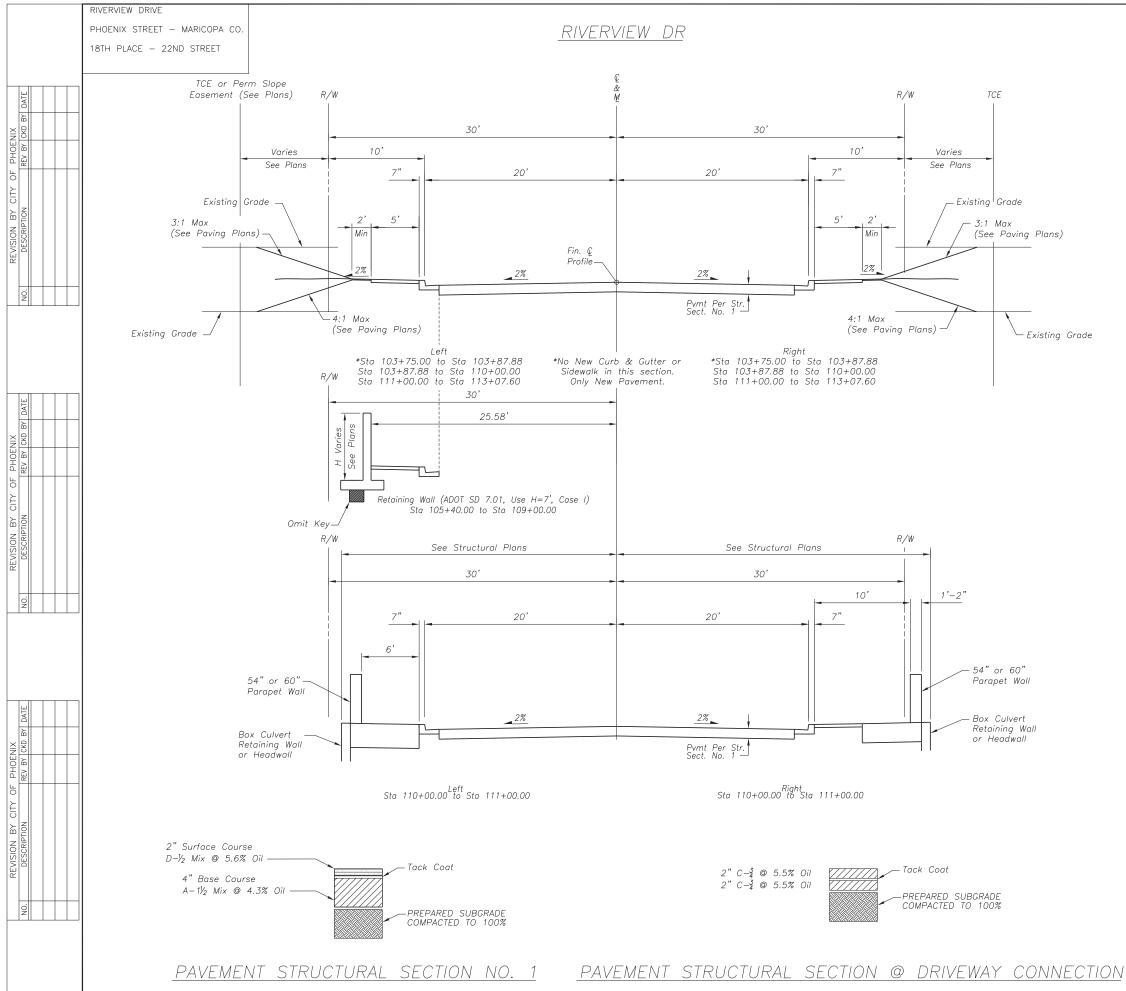
18TH PLACE – 22ND STREET

	EFITEM No. DESCRIPTION	UNIT									SH	ĖĖT	NUM	SUN IBER	S			TO
	lo.		6	7	8	9	10	11	14	17	29	32	40	45				
6	0 M6014900 TRENCHING FOR STREET LIGHT CIRCUIT	LF									1140)						11
6	M6101850 ALLOWANCE FOR EXCESS DUCTILE IRON FITTINGS	JOB																
6.		LF				12			-		-							1
6.		LF				29											-	2
6		LF					411	152								-	-	7.
6		EA				1	+++	152									-	
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60									56					_			-	5
6		LF							328							 _		32
		EA							1							 _		
		LF							84					_		_	_	8
	2 M6250020 STORM SEWER MANHOLE, SPECIAL DETAIL A, COP SUPP. STD. DETAIL P-1520	EA							1							 _	_	
	3 M6255002 STORM SEWER MANHOLE, SPECIAL DETAIL B, COP SUPP. STD. DETAIL P-1520	EA							3							 		,
7.		EA				1												
7.	M6303108 8" VALVE, FLG. X MJ, BOX AND COVER, FURNISH AND INSTALL	EA				1												
7	M6303112 12" VALVE, FLG. X MJ, BOX AND COVER, FURNISH AND INSTALL	EA					1	1										
7.	7 M6307110 12" X 12" X 6" TEE WITH FLANGED SIDE, FURNISH AND INSTALL	EA				1												
7	8 M6307111 12" X 12" X 8" TEE WITH FLANGED SIDE, FURNISH AND INSTALL	EA				1												
7	9 M6307206 6" 90 DEGREE FLANGED ELBOW, FURNISH AND INSTALL	EA				1												
8	0 M6307208 8"11-1/4 DEGREE FLANGED ELBOW, FURNISH AND INSTALL	EA				1												
8	M6307209 8" 22-1/2 DEGREE FLANGED ELBOW, FURNISH AND INSTALL	EA				1												
8.	2 M6307210 12" 11-1/4 DEGREE FLANGED ELBOW, FURNISH AND INSTALL	EA				1												
8.	3 M6307212 12" 45 DEGREE FLANGED ELBOW, FURNISH AND INSTALL	EA				2	2	2										
8		EA				-		1										
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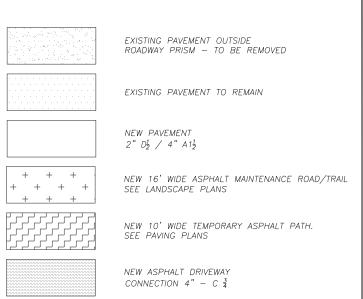
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1		9	ARIZ.	ST8	5110072	4	65	
	MICHAEL A. LOPEZ	02/18 DATE					CONSULTAI LTING ENG	
	No. Signed O2. 14	DESIGN: IAM		DRAWN:	IAM	CH	IECKED: MAL	
	EXPIRES 06/30/2018							



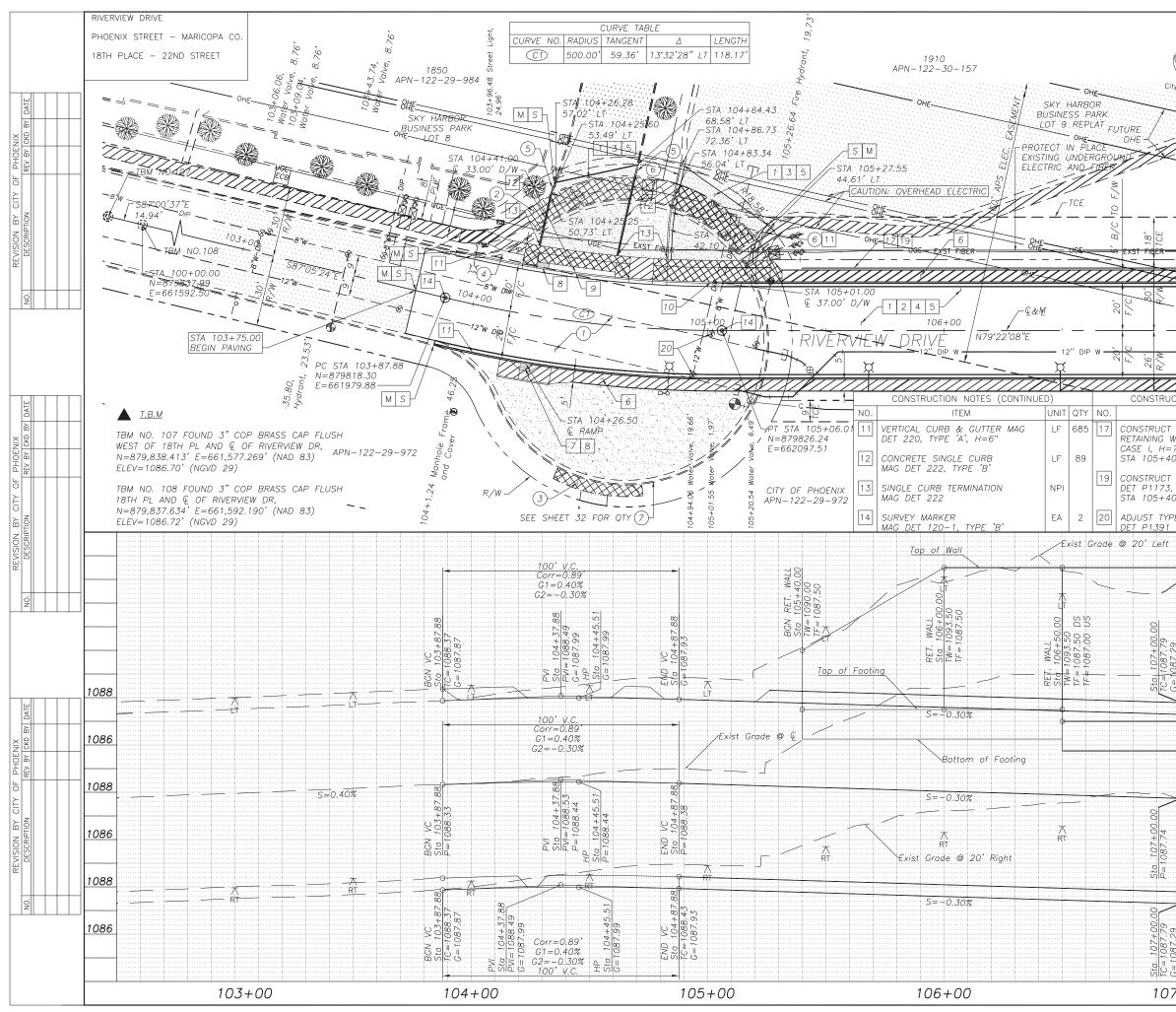


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MICHAEL A.		11/13	7		STA	NLEY	CONSULTAI	NTS INC.
LOPEZ S	//	DATE			C	:ONSU	LTING ENG	INEER
To Signed 11.01	//	DESIGN: IAM		DRAWN: IAM		CH	IECKED: MAL	
EXPIRES 06/30/2018								

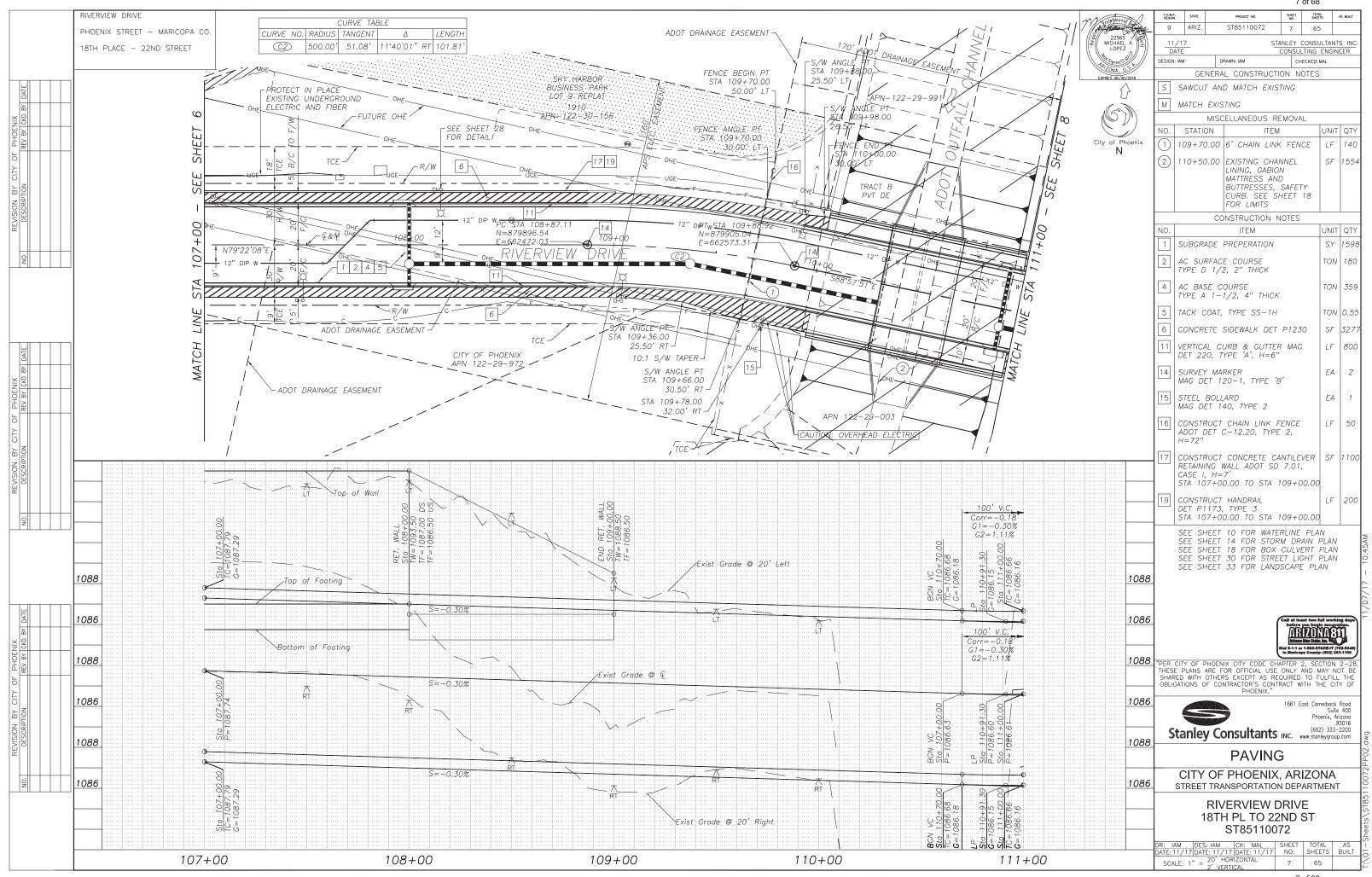
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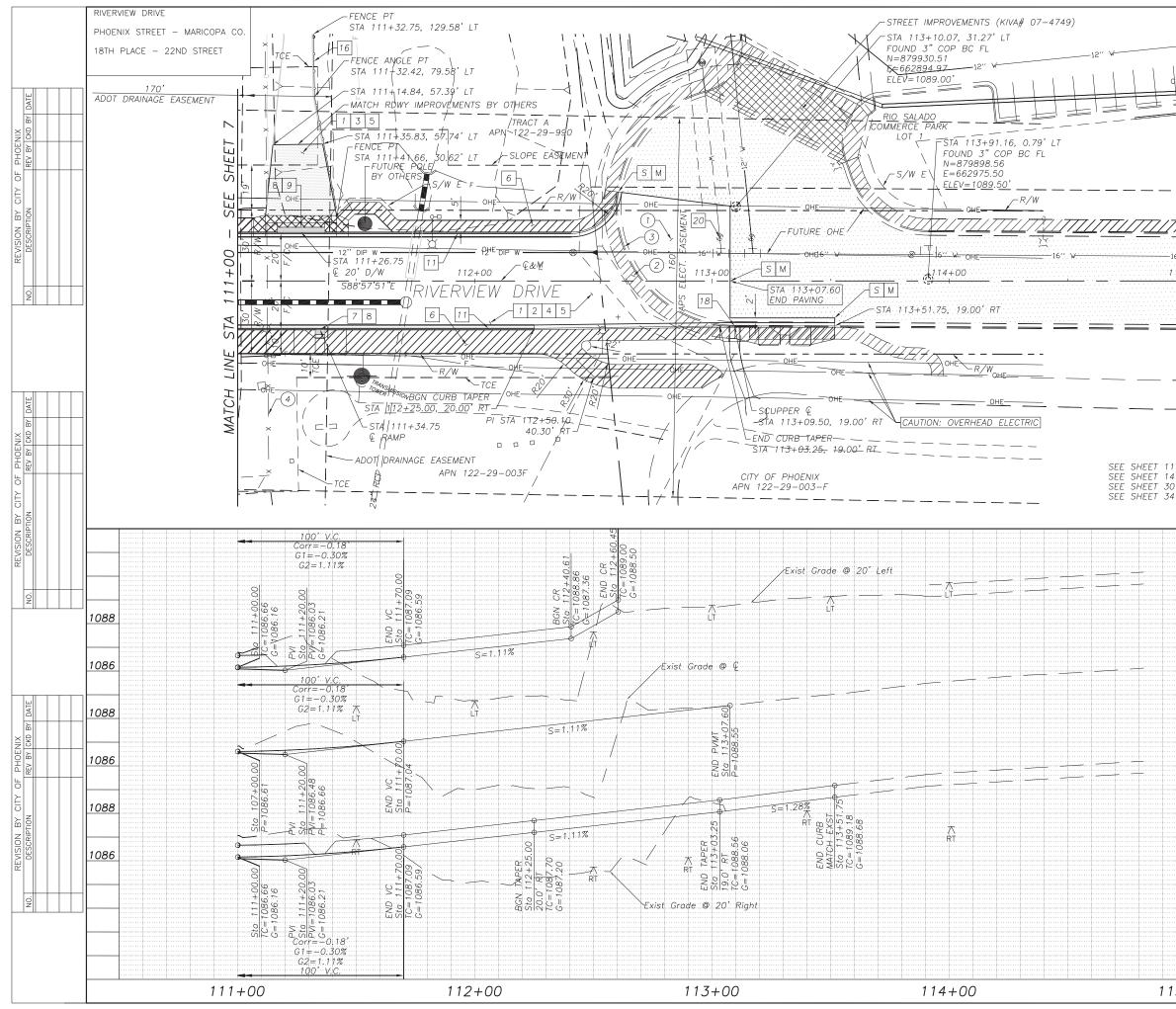




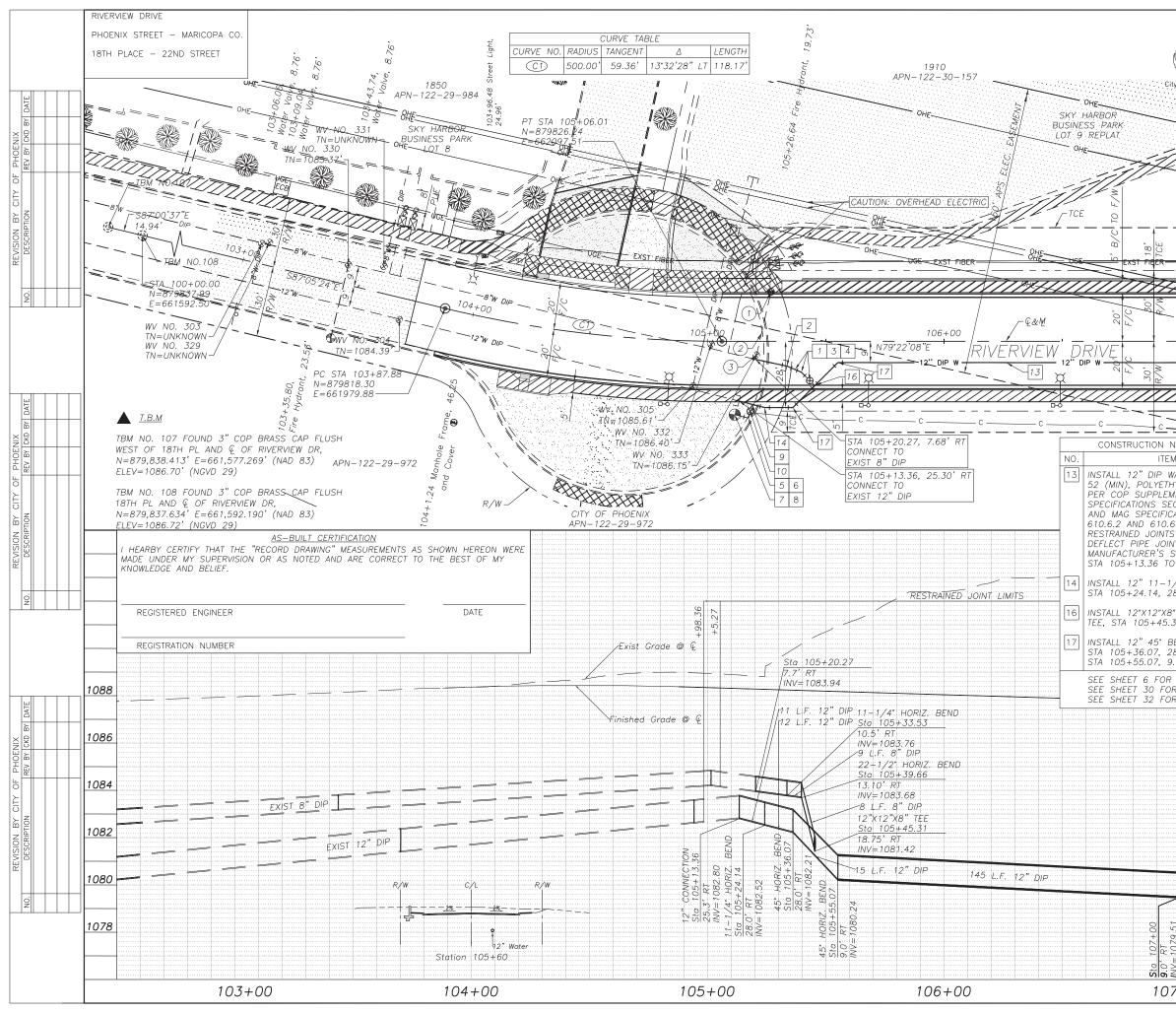


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\bigtriangleup	W Stolessional	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.		AS BUILT
	22565	- 9	ARIZ.	ST85110072	6	65	
MESM	MICHAEL A.	02/1 DATI			STANLEY CONSULT	ONSULTANT TING ENGIN	
	Bie Signed Of Att	DESIGN: IA		DRAWN: IAM		CKED: MAL	
City of Phoenix	EXPIRES 06/30/2018		GE	NERAL CONSTRUC	CTION NO	DTES	
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			ИАТСН	EXISTING			
				IOVE EXISTING A.	C PAVEN	MENT	
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107+00				VE CONC S/W, N			
+		NO.		STATION TO STA	,	SIDE	SF
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ET		(3)		4+42.00 TO 104		RT	187
- IC H			REM	OVE CONC CURB			
лы		NO.		STATION TO STA		SIDE	
		(4)	10.	3+87.00 TO 105	+25.00	LT	175
SEL		5	104	4+26.00 TO 104	+65.00	LT	12
「 に 、 、		6	10.	4+85.00 TO 105	+26.00	LT	21
MATCH				ID SALVAGE CON			
₩₽		NO.		STATION TO STA		SIDE	-
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		$\vdash \downarrow \downarrow$		CONSTRUCTION			
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T CONCRETE CAN WALL ADOT SD				RFACE COURSE) 1/2, 2" THICK		TON	146
=7'	7,00,00						-
40.00 TO STA 10	,,+00.00			RFACE COURSE F AY CONNECTION	UR	TON	54
T HANDRAIL 3. TYPE 3	LF 160		TYPE C				
5, TYPE 3 40.00 TO STA 10	07+00.00	4	AC BAS	SE COURSE		TON	292
'PE 'A' WATER VA	ALVE EA 2			1-1/2, 4" THI	СК		
<u>1 AND P1391-1</u>		5 7	АСК С	COAT, TYPE SS-1	H	TON	0.53
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	····						204
				RAMP (MID BLOC 1241–1	K)	NPI	
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	····		RUNCA	ATED DOMES DET	P1232	SF	18
				ETE DRIVEWAY EN		SF	404
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00				ETE DRIVEWAY EN		SF	482
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	1086	;			Arizona B		لا
					Dial 8-1-1 or 1 In Maricopa	1-800-STAKE-IT (7 County: (602) 26	82-5348) 3-1100
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	····	-			1661 Eas	st Carnelback Suite	Road 400
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		St	anle	y Consultant		(602) 333- ww.stanleygroup	2200
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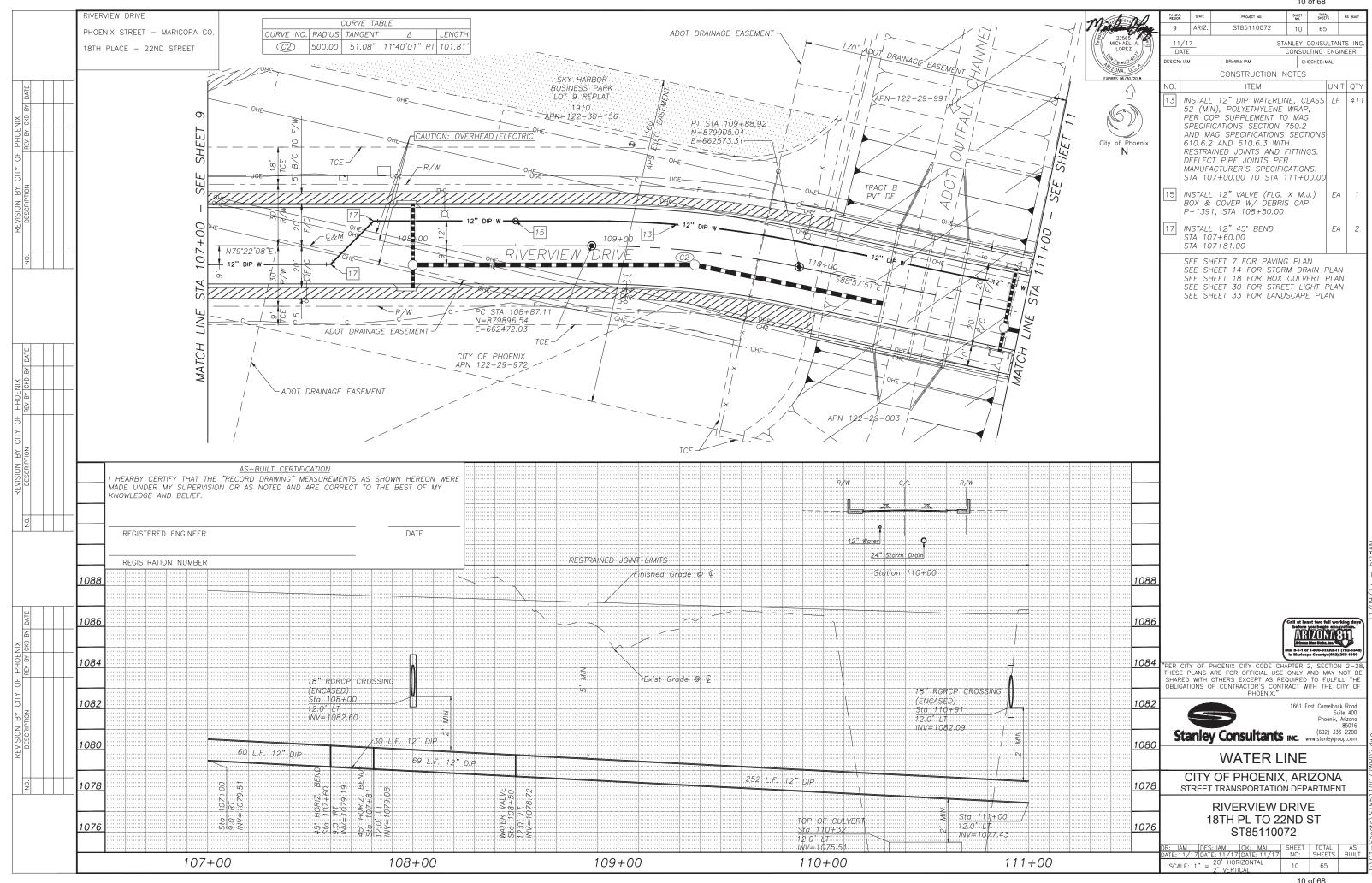


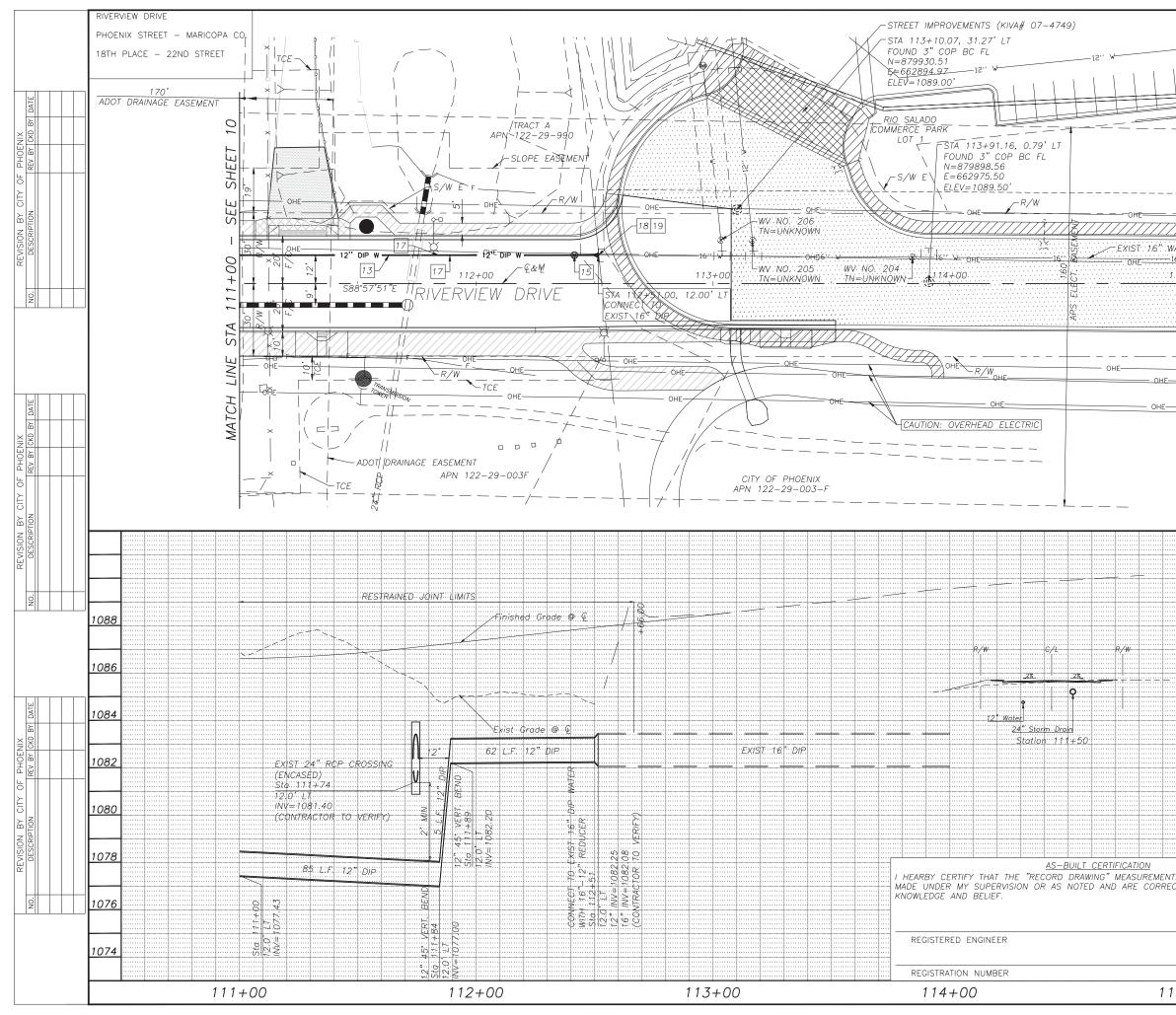


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\wedge		W. Prole	ssionar	F.H.W.A. REGION	_	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS	s Built
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	R I	10 Sig	gned.11.2	DESIGN:		DRAWN: NRD		CHECKED: MAL		
City of Ph	oenix	EXPIRES	NA, U.3. 06/30/2018			NERAL CONST		NOTES		
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					REMO	VE CONC S/V	V, V.G., D	/W SLAE	3	
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115+00						MISCELLANEO	US REMON	/AL		
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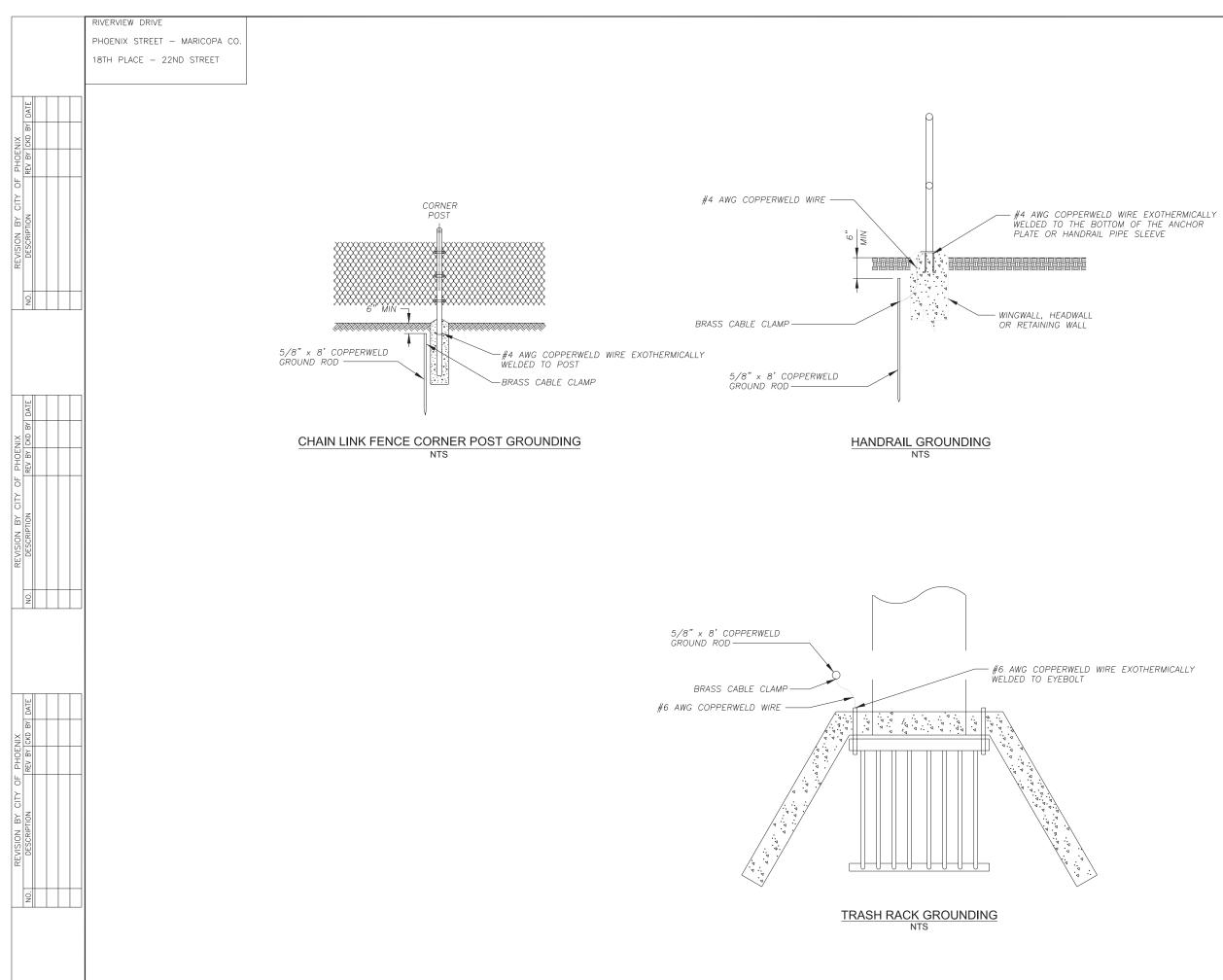


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City of Phoenix	EXP	PIRES 06/30	/2018					GE F			
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					CTATIC				·L		Ιοτγ
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~0					105.01	5.0					
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00						С	ONSTRUCTION N	OTES			
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μN							SUPPLEMENT TO				
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SE							PIPE JOINTS AND P		00.		
LL							JRER'S SPECIFIC		VS.		
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2				2			"11–1/4° BENI 33.53, 10.5' RT			ΕA	1
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\square					INICTAL	<u>,</u>	" VALVE /ELO S)	F •	4
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-					1 100	'					
NOTES (CONTINUI	ED)]	5			" DIP WATERLINE			LF	12
EM	́	QTY					POLYETHYLENE				
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WATERLINE, CLASS	S LF	183					IONS SECTION SPECIFICATIONS				
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EMENT TO MAG SECTION 750.2							D JOINTS AND I		GS.		
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D.6.3 WITH	-					•					
ITS AND FITTINGS.				6			"90° BEND 17.29, 32.47' R	τ		ΕA	1
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, M				9			2"X12"X6" FLG. (ΕA	1
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OR STREET LIGHT			1088								
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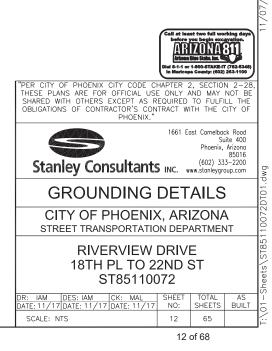




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	22565 MICHAEL A. LOPEZ		 	/17			STANLEY		I ULTAN	
	ARIZONA, U.S.	∥∣	DESIGN:	IAM				CHECKED:	MAL	
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.WATERMAIN 16/0.w			17	INSTALI STA 1	_ 12"45 1+84.00 1+89.00			ND	EA	2
Sta 115+00 N=879895.8		[INSTAL	_ 16" - 2+51.00	12" RE	DUCER		EA	1
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Contract Street	9	ARIZ.	ST85110072	12	65		
ACCEPTION OF CONTRACT OF CONTRACT.					LEY CONSULTANTS INC.		
April 11.21	DESIGN: IAM		DRAWN: IAM	CH	IECKED: MAL		
EXPIRES 06/30/2018							



RIVERVIEW DRIVE PHOENIX STREET – MARICOPA CO.

18TH PLACE – 22ND STREET

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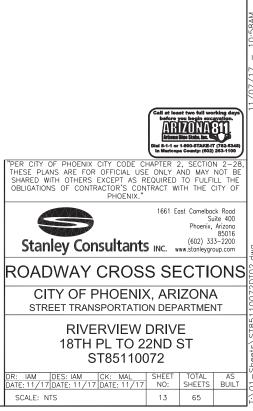
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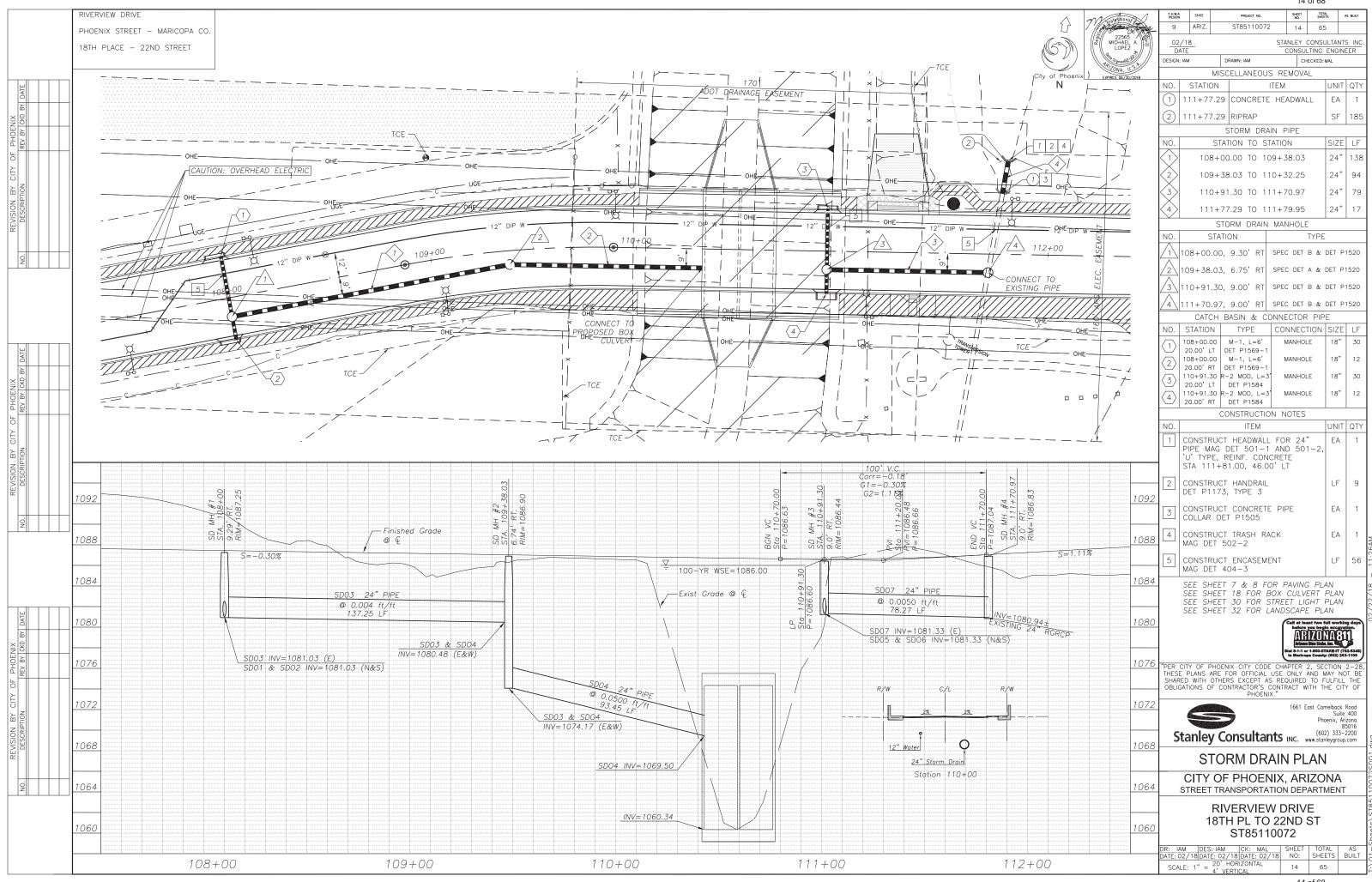
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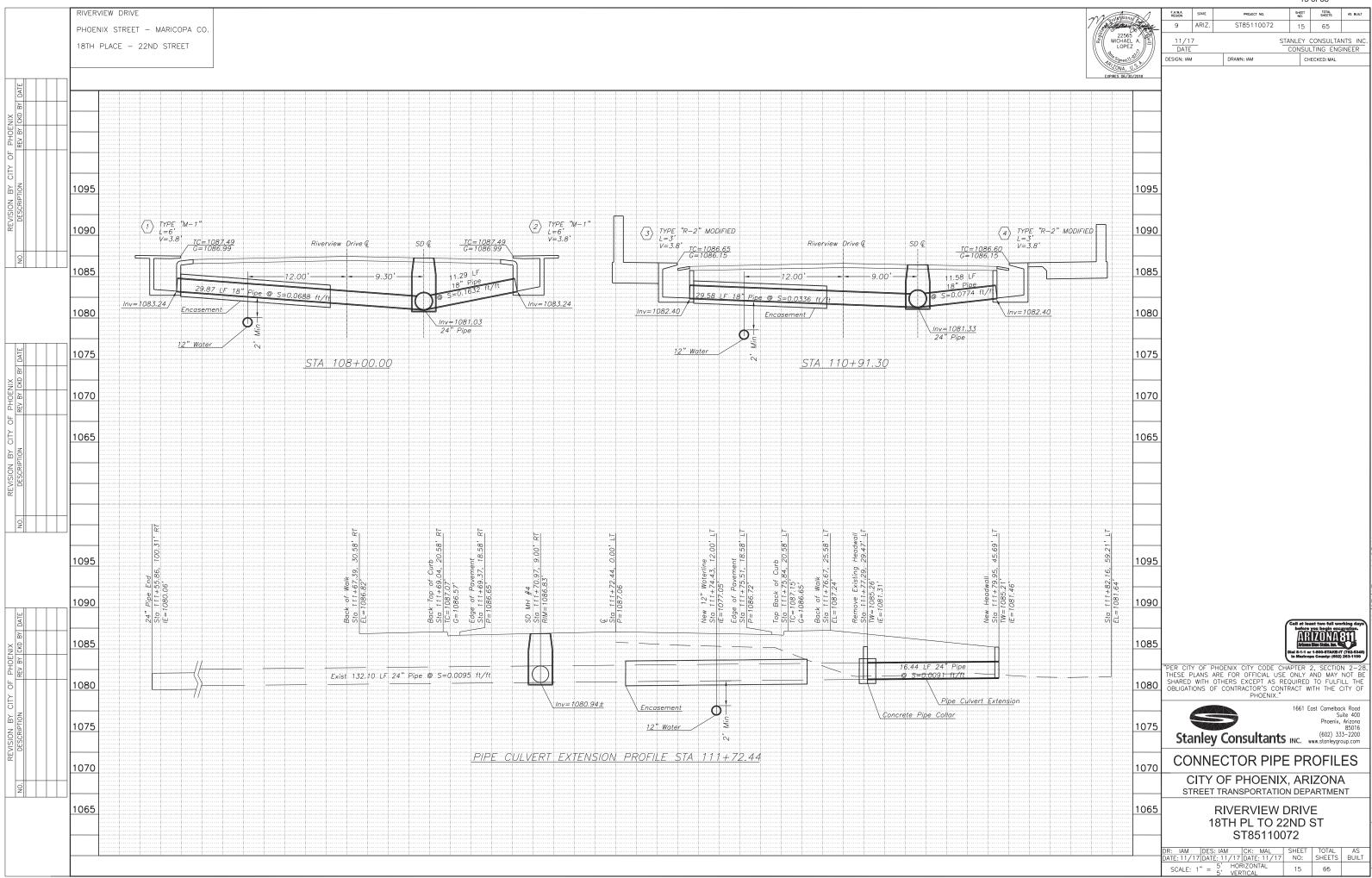
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Malessionar	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT	
A Contraction	9	ARIZ.	ST85110072	13	65		
ACCEPTED ACC					EY CONSULTANTS INC. NSULTING ENGINEER		
A Price Signed 11.91	DESIGN: IAM		DRAWN: IAM	CH	HECKED: MAL		
EXPIRES 06/30/2018							







RIVERVIEW DRIVE PHOENIX STREET - MARICOPA CO.

18TH PLACE - 22ND STREET

STORM DRAIN ALTERNATE PIPE MATERIAL

MAIN LINE PIPE

STA	TION	QUANTITY		PE ETER	ТО	PTH TOP	MAX TRENCH WIDTH AT	R.G.R.C.P ASTM C76
FROM	ТО	L.F.	R.G.R.C.P. (I.D.) IN.	HDPE (I.D.) IN.	MIN.	MAX. (FT.)	TOP OF PIPE R.G.R.C.P., & HDPE FT.	CLASS
108+00.00	109+38.03	137.25	24	24	4.1	10.6	UNRESTRICTED	CLASS III
109+38.03	110+32.25	93.45	24	24	10.6	14.9	UNRESTRICTED	CLASS IV
110+91.30	111+70.97	78.27	24	24	3.0	3.8	UNRESTRICTED	CLASS IV
111+77.29	111+79.95	16.44	24	24	1.8	3.5	UNRESTRICTED	CLASS IV

CONNECTOR PIPE

LOCATION	QUANTITY	TC	h to)p pipe	P R
STATION (LT. or RT.)	L.F.	MIN. (FT.)	MAX (FT.)	
108+00.00, 20.0'LT.	29.87	2.2	4.6	
108+00.00, 20.0' RT.	11.29	2.2	4.6	
110+91.30, 20.0'LT.	29.58	2.2	3.5	
110+91.30, 20.0'RT.	11.58	2.2	3.5	

GENERAL NOTES:

- 1. ONLY PIPE MATERIALS SPECIFIED ON THIS SHEET ARE ACCEPTABLE FOR THIS PROJECT.
- 2. WHERE MAXIMUM TRENCH WIDTH IS NOTED AS "UNRESTRICTED", PIPE STRENGTHS ARE SPECIFIED FOR A POSITIVE PROJECTING OR EMBANKMENT LOADING CONDITION.
- 3. PLANS AND DETAILS SPECIFIED FOR R.G.R.C.P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING DETAILING ISSUES IF ALTERNATE PIPE MATERIAL IS SELECTED AT NO ADDITIONAL COST TO THE CITY.
- 4. HIGH DENSITY POLYETHYLENE (HDPE), SHALL HAVE WATERTIGHT JOINTS

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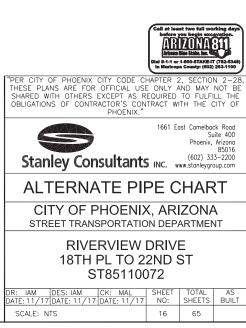
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Malessionar	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT	
/ Alexandream	9	ARIZ.	ST85110072	16	65		
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Apisoned !!	DESIGN: IAM		DRAWN: IAM	CH	IECKED: MAL		
EXPIRES 06/30/2018							

PIPE DIA.	R.G.R.C.P.
R.G.R.C.P. & HDPE (I.D.) IN.	ASTM C76 CLASS
18	CLASS IV



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	_		CLASS AA		STRUCTURAL	STRUCTURAL	42" HANDRAIL	EXST	NEW	RETAINING WALL	GEOCOMPOSITE	CONCRETE	INLET	OUTLET	2-BARREL	CONCRETE			
		DESCRIPTION	CONCRETE	REINFORCING (LBS)	EXCAVATION (CY)	BACKFILL (CY)	(P-1173) (MODIFIED_TYPE	I) GABION REMOVAL (CY)	CHANNEL LINING (SY)	PER DWG. S9 (SF) (CASE IV)		HEADWALL PER DWG. S5 (LF)	5 PER DWG. S6 (EA)	STRUCUTRE PER DWG. S6 (EA)	RCBC PER DWG. S2 (LF)	PARAPET WALL PER DWG. S11			
	Т	TOTAL	(CY) 788	135,880	2040	4082	(LF) 110	880	605	(CASE IV)	1455	78	1	1	62	(CY) 162			
		AS-BUILT TOTAL					RAIN QUANTITIES COST OF THE AS]		
		FORMATION ONLY						SOCIATED S	TRUCTURE.										
	GENERAL		VATION QUAN	IIIIES INCLUDE	. OVEREACAVA	ATION SHOWN	UN FLANS.												
	CONSTRUCTION SPE WORKS CONSTRUCT	ECIFICATION - M				(MAG) UNIFO	RM STANDARD SF	PECIFICATION	IS FOR PU	IBLIC						DRA	WING INDEX:		
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		GE GROUP STRU N SPECIFICATION: AA" CONCRETE S	S SHALL BE	PER THE GEN	ERALÍNOTES	ON THIS SHEE	IT.	HALL APPLY	<u>/:</u>		A S	S OR M	ER DENOTING S NUMBER DENOTI	ECTION NG DETAIL		RETAINI MISCELI PARAPE RETAINI	NG WALL PLAN & ELEVAII LANEOUS DETAILS IT DETAILS NG WALL DETAILS	UNS	59 S10 S11 S12
	DESIGN SPECIFICATI	IONS – AASHTO	LRFD BRIDGE	E DESIGN SPEC	CIFICATIONS, S	5th EDITION, 2	2010.						NO. WHERE SE			APPLIC,	ABLE SHEETS FROM THE I		JILT
	THE GEOTECHNICAL & MOORE GEOTECH					TED ADDENDA	FOR THIS PROJE	ECT WERE P	PREPARED	BY NINYO		UNLE	HOWN OR REFEI ISS NOTED OTHI HOWN ON SAME	ERWISE. BLANK	-S (-)	BEEN	CT PLANS FOR THE EXISTII NCLUDED WITH THIS CONS AL PROJECT: PHOENIX CAS	STRUCTION SET:	
	STRUCTURE BACKFI BASE COURSE	ILL SHALL CONFO	ORM TO THE	REQUIREMENTS	S OF SECTION	N 203, SELECT	MATERIAL TYPE	'A', TYPE '	B', OR AG	GREGATE							INNER LOOP	EAST TUNNEL OU 3(225) H-0128-01-C	TFALL
	LOADING CLASS -	HL-93														FOLLOW	UP PROJECT: PHOENIX		GUITEAU I
	INVENTORY AND OF WITH 2010 INTERIM				RDANCE WITH	AASHTO MAN	UAL FOR BRIDGE	EVALUATION	N, 1ST EDI [.]	TION							1-10-3(27		
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	SEISMIC PERFORMA	NCE: ZONE 1 (A	Acc = 0.03 g	9)								~40	BAR DIAMETER	5					
	ALL CONCRETE SH	ALL BE MAG CLA	ASS AA (f'C =	= 4,000 PSI)	UNLESS NOTE	ED OTHERWISE					-		-OPENING >	4'-0": USE BA					
	"AIRPORT BEIGE" C CULVERT HEADWALL					XPOSED CONC	RETE SURFACES	OF RETAININ	NG WALLS,	BOX		\times	Ó OPENINGS ≤ TOTAL AREA	4'-0": EXTRA TO REGULAR F	N ON DRAWING BARS EQUAL II REINFORCING CI	N UT BY			
	REINFORCING STEEL 60.	L SHALL CONFOR	RM TO ASTM	SPECIFICATION	A615/A615M	1. ALL REINFOI	RCING STEEL SHA	ALL BE FURI	NISHED AS	GRADE		\exists	EACH SIDE C TRANSVERSE	DF OPENING AN POSITION AS I	TOTAL AREA 1 ND IN THE SAM REGULAR REINF				
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	ALL REINFORCING S OTHERWISE.	STEEL SHALL HA	VE 2 INCHES	CLEAR COVER	R (PLUS RUS	TICATION THICK	KNESS WHERE AP	PLICABLE) (UNLESS NO			X							
	REINFORCING STEEL	L IN CONCRETE	PLACED AGAI	NST EARTH SH	ALL HAVE 3	INCHES CLEAR	COVER.			<u> </u>	RECTANG	ULAR	<u>OPENIN(</u>	<u>SS</u>	<u>CI</u>	RCULAR	OPENINGS		
	WELDING OF REINF	ORCING IS NOT	PERMITTED.														#4 × 4'−0" LONG E/		PHOENIX CITY COD
+	CHAMFER ALL EXPO		,													I	FACÊ, EACH CORNER	THESE PLAN SHARED WIT	S ARE FOR OFFICIAL H OTHERS EXCEPT A OF CONTRACTOR'S
	ALL STATIONS AND											REINFORCIN				Ţ	$\overline{\sqrt{\Box}}$		PHOEN
	DIMENSIONS SHALL FIELD. ANY DISCREI BEGINNING ANY WO	PANCIES IMPACTI	NG NEW CON	ISTRUCTION SH							THICKNESS OF CONCRETE < 12"	BAR SIZE		LENGTH G CIRC OPENIN D+2'-0"				Stank	ey Consulta
	THE BOX CULVERT NOT MORE THAN 3			RUCTION JOIN	TS IN THE RO	DOF SLAB AND	WALLS (OPTIONA	AL IN THE F	FLOOR) SP	ACED	12" TO 18"	#5	D+4'-2"	D+2'-0"	_		RE-ENTRAN		IERAL NO
	RETAINING WALLS A MAY BE CONTINUOU								CENTER. F	OOTINGS	> 18"	#6	D+5'-0"	D+2'-0")RNERS		Y OF PHOE
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	ANY DAMAGE DONE	TO THE ADOT I	FACILITIES SH	ALL BE REPAII	RED TO THE	SATISFACTION	OF THE ADOT EN	IGINEER ANI	D AT NO C	COST TO			CAL TRII NINGS IN						18TH PL TC ST851
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GEOCOMPOSITE WALL DRAIN AT BOX CULVERT HEADWALLS AND CHANNEL TRANSITION WALLS SHALL MEET THE REQUIREMENTS OF ADOT STANDARD SPECIFICATIONS SECTION 203 AND APPLICABLE SUBSECTIONS. THE CONTRACTOR SHALL SUBMIT GEOCOMPOSITE WALL DRAIN SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

SCALE: NONE (TYPICAL TRIM REINFORCING IS REQUIRED FOR ALL OPENINGS UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS)

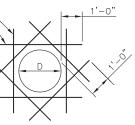
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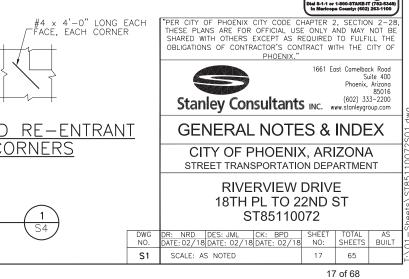
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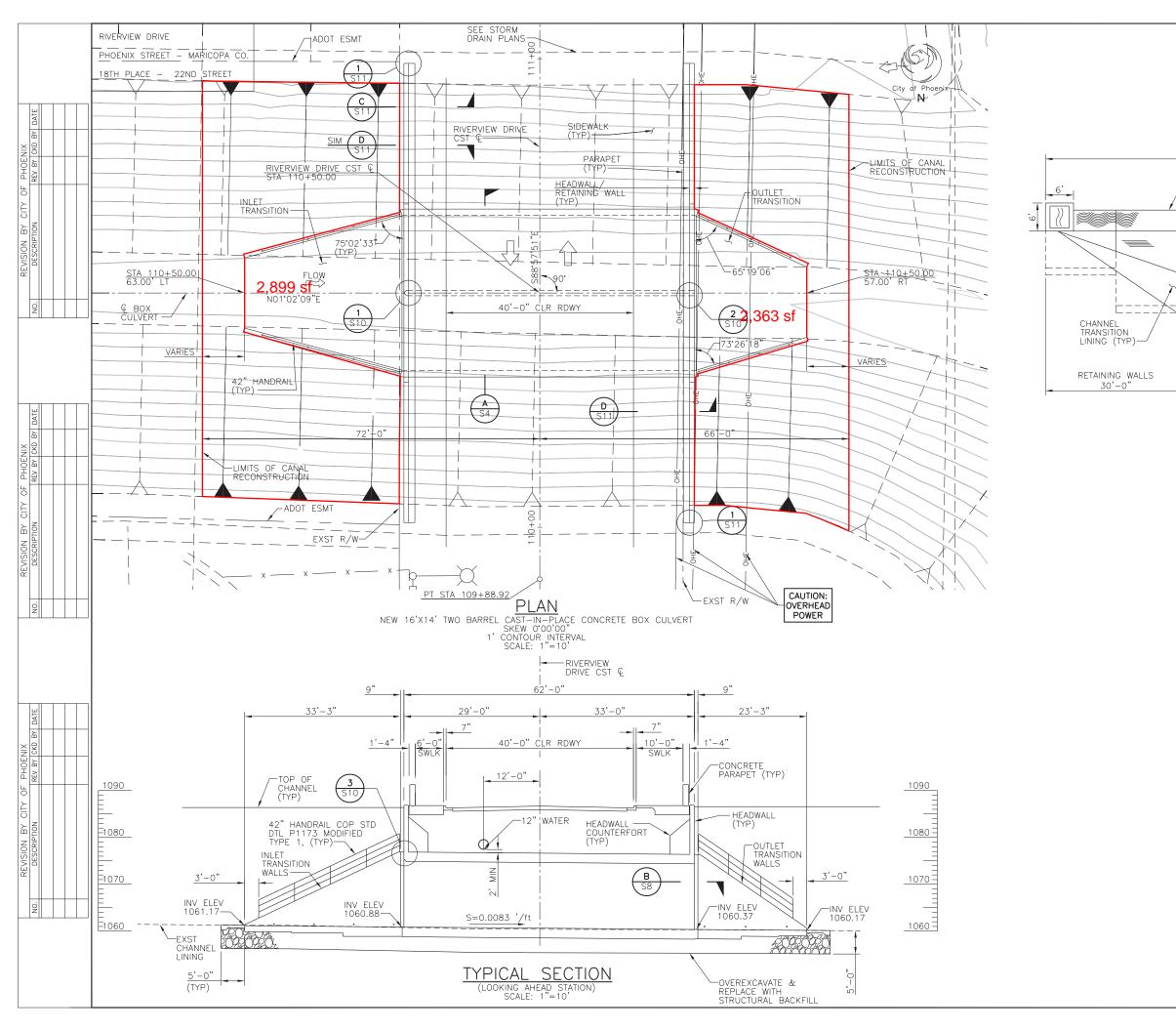
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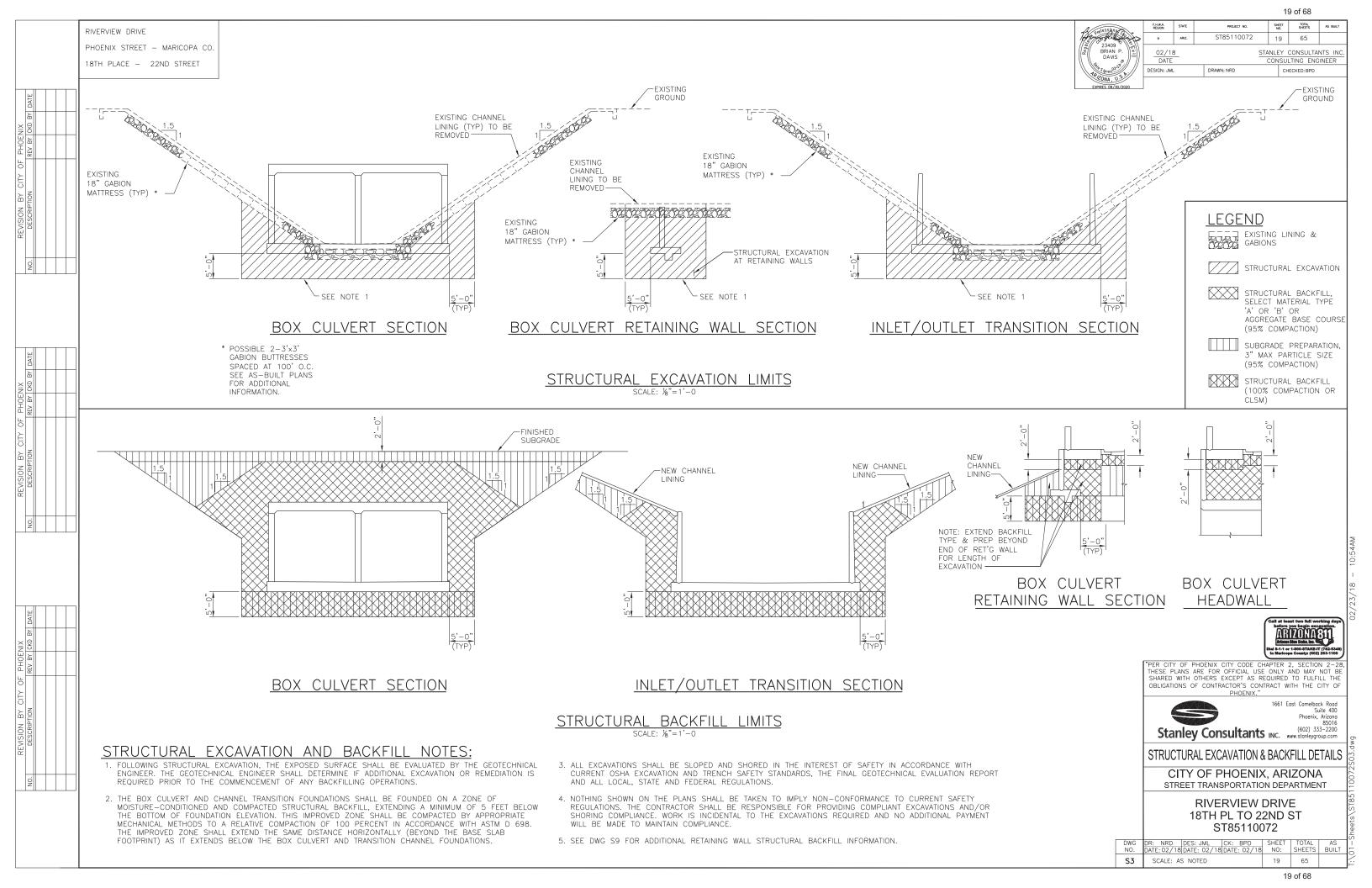


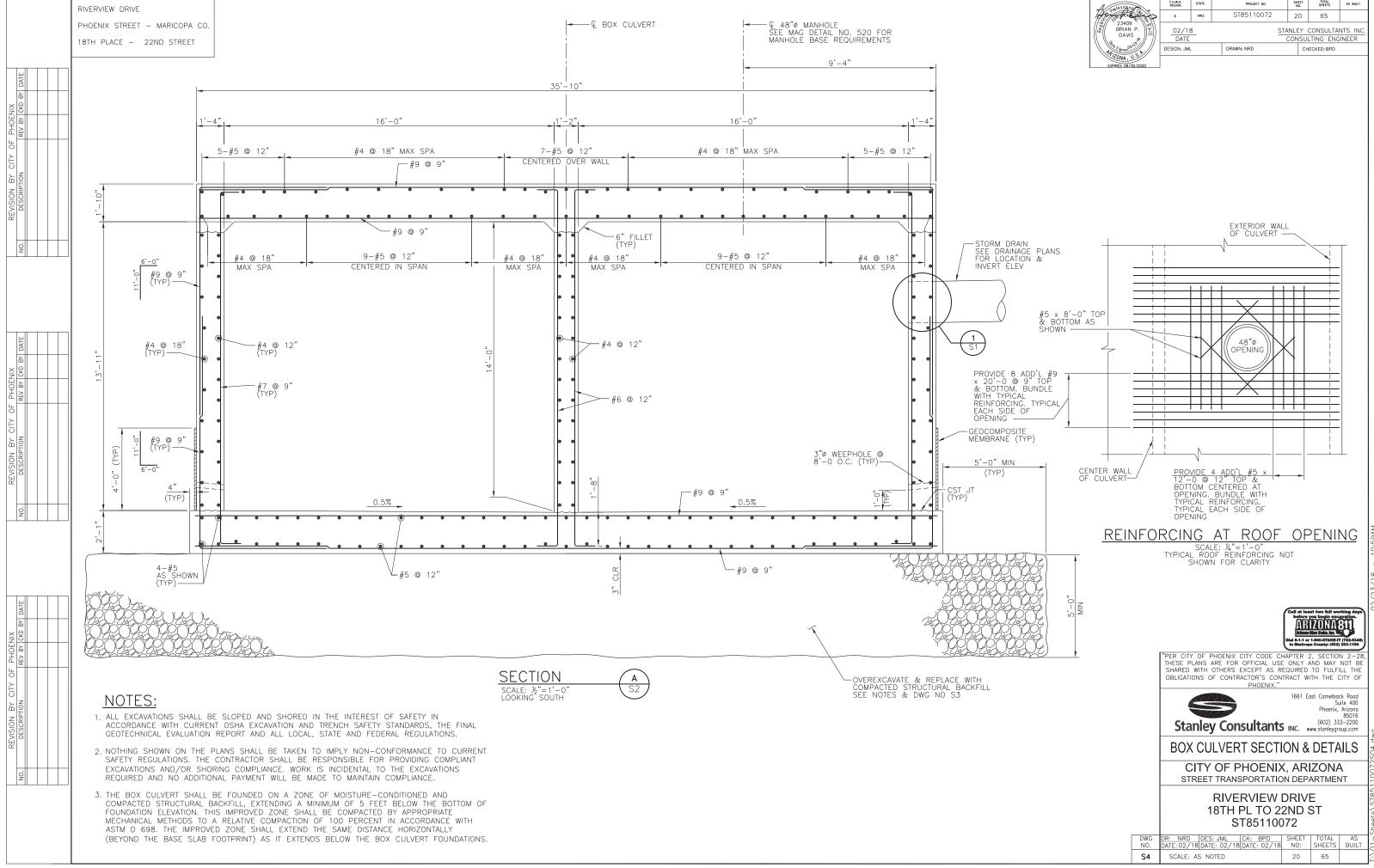






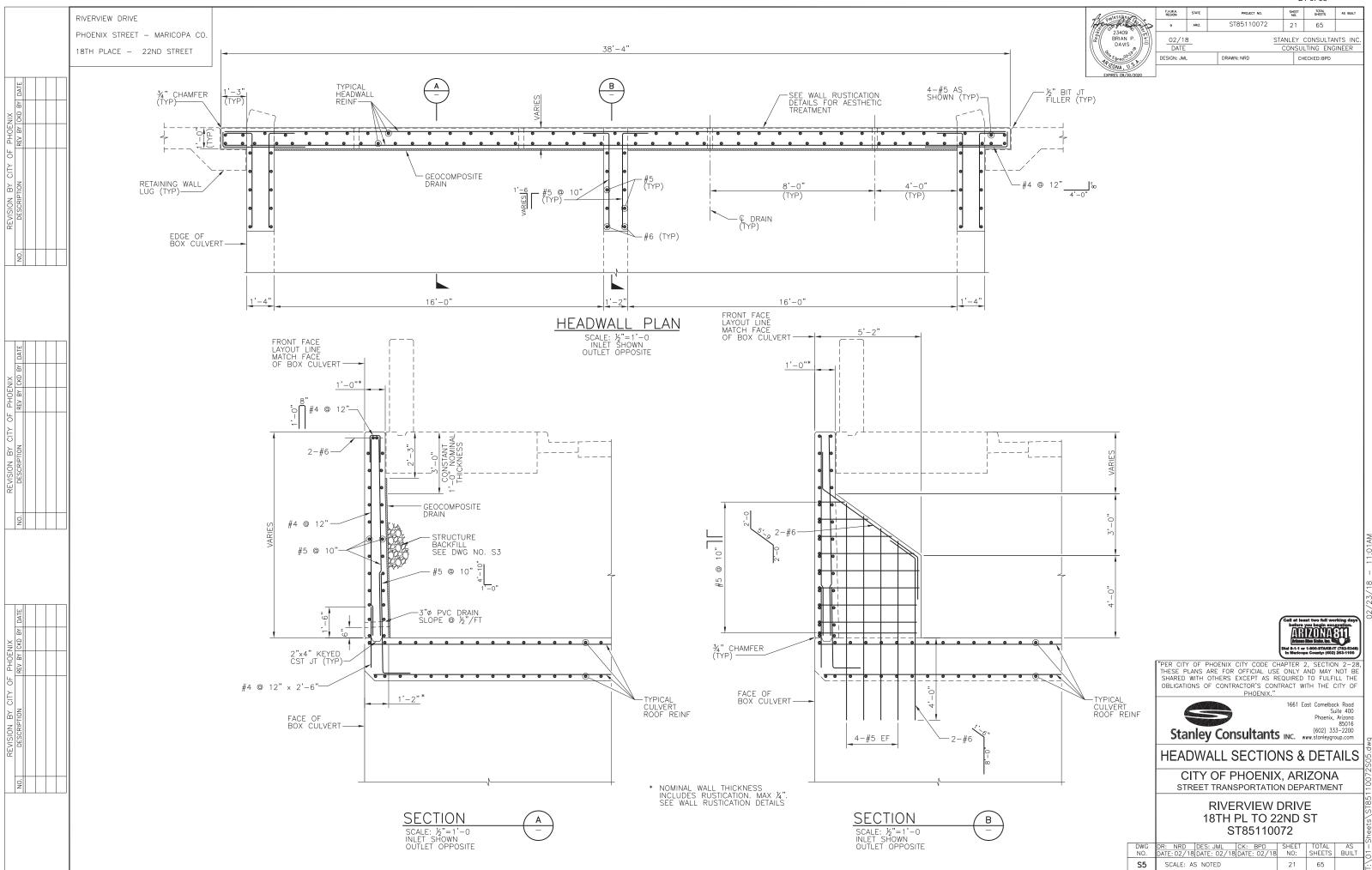
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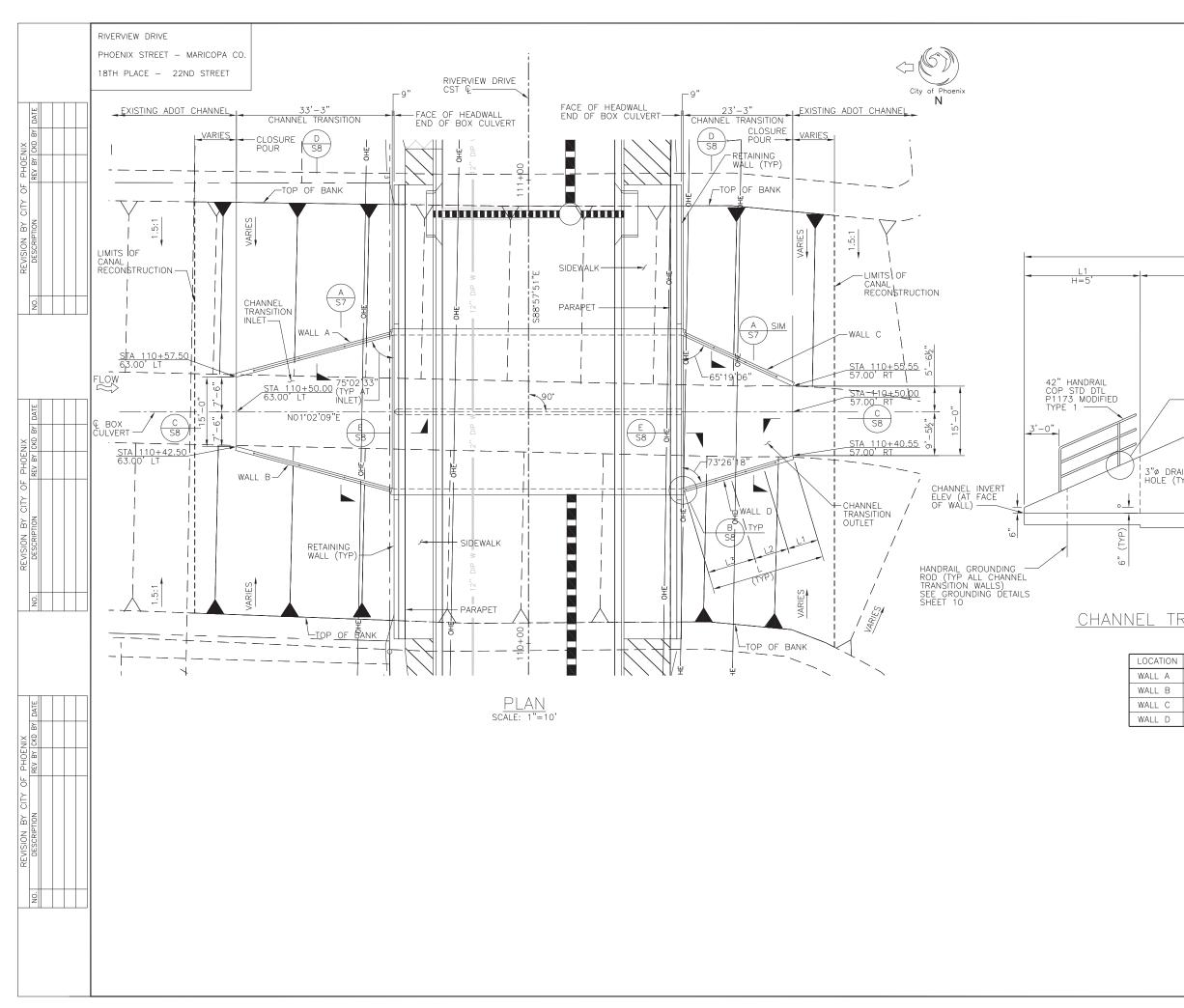


TOTAL SHEETS AS BUILT F.H.W.A. STATE PROJECT NO. SHEET NO.

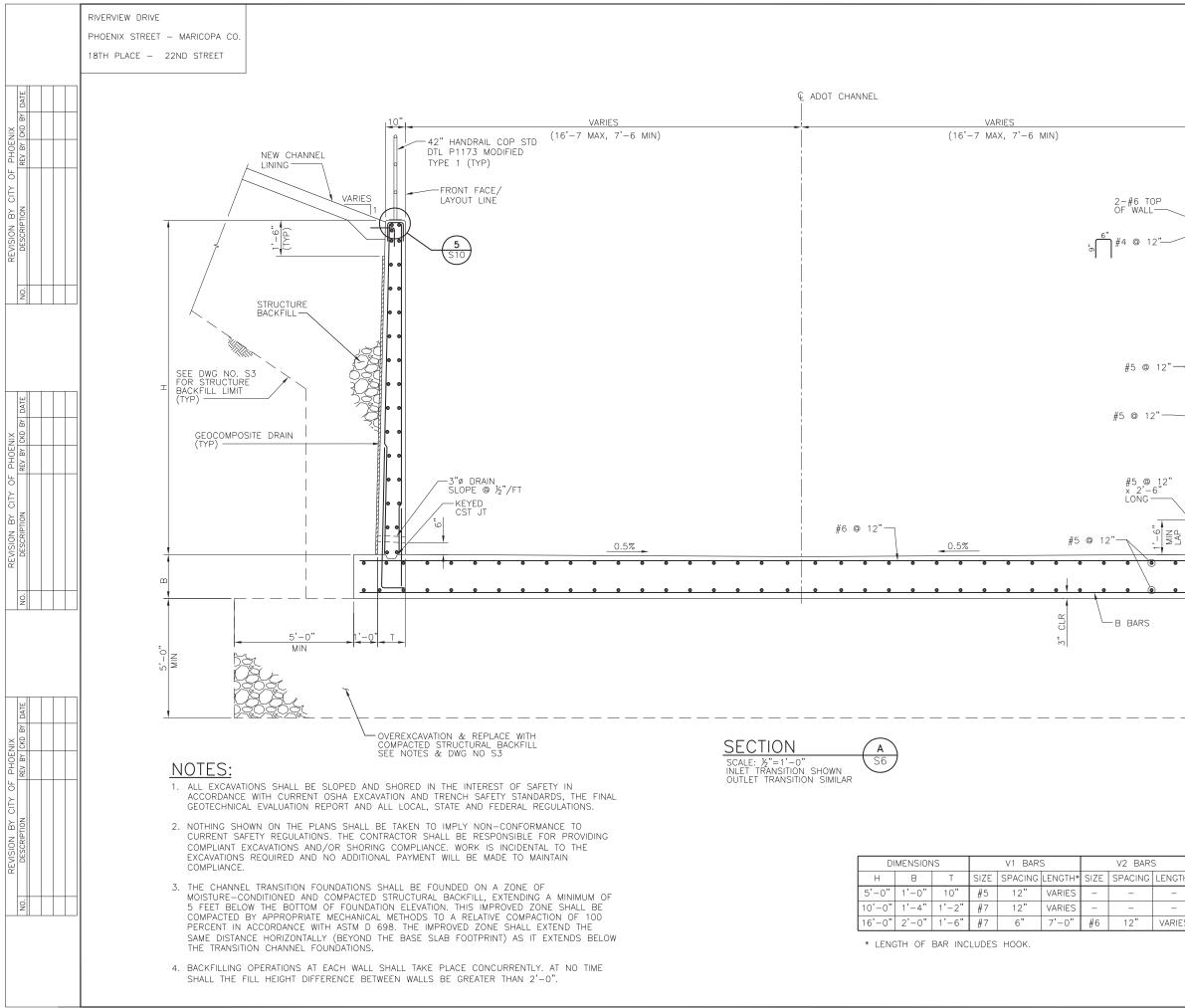
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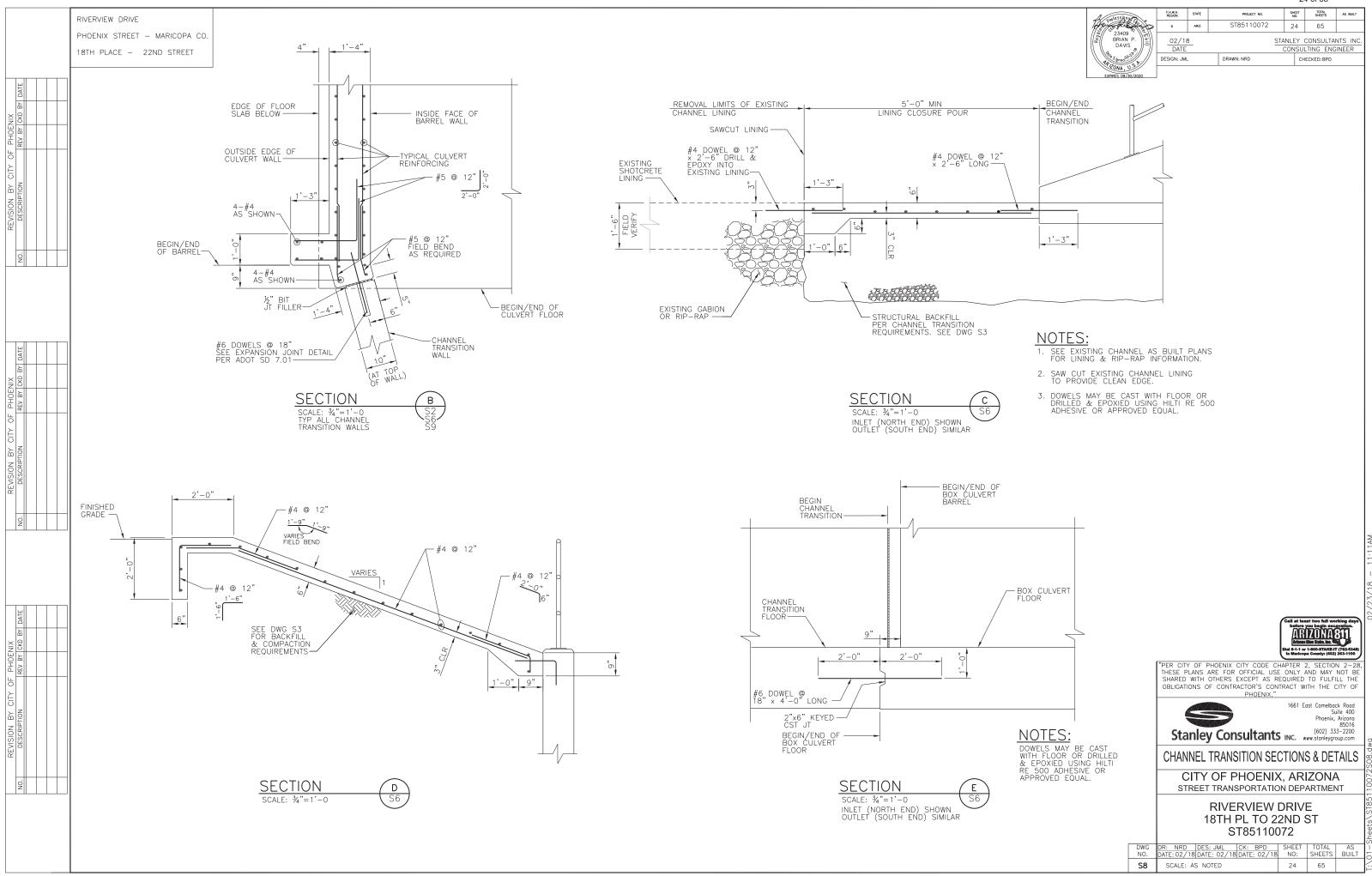
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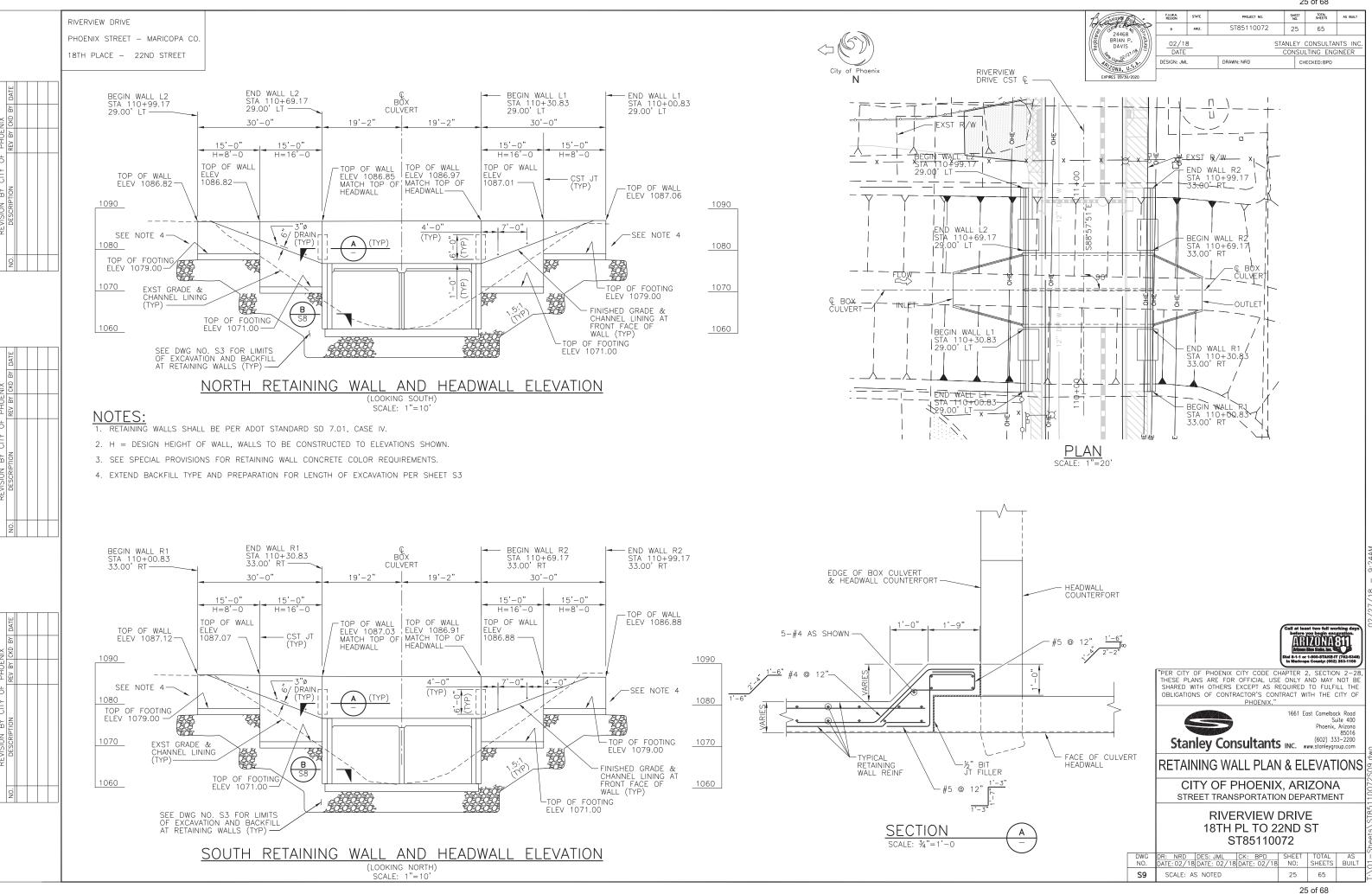
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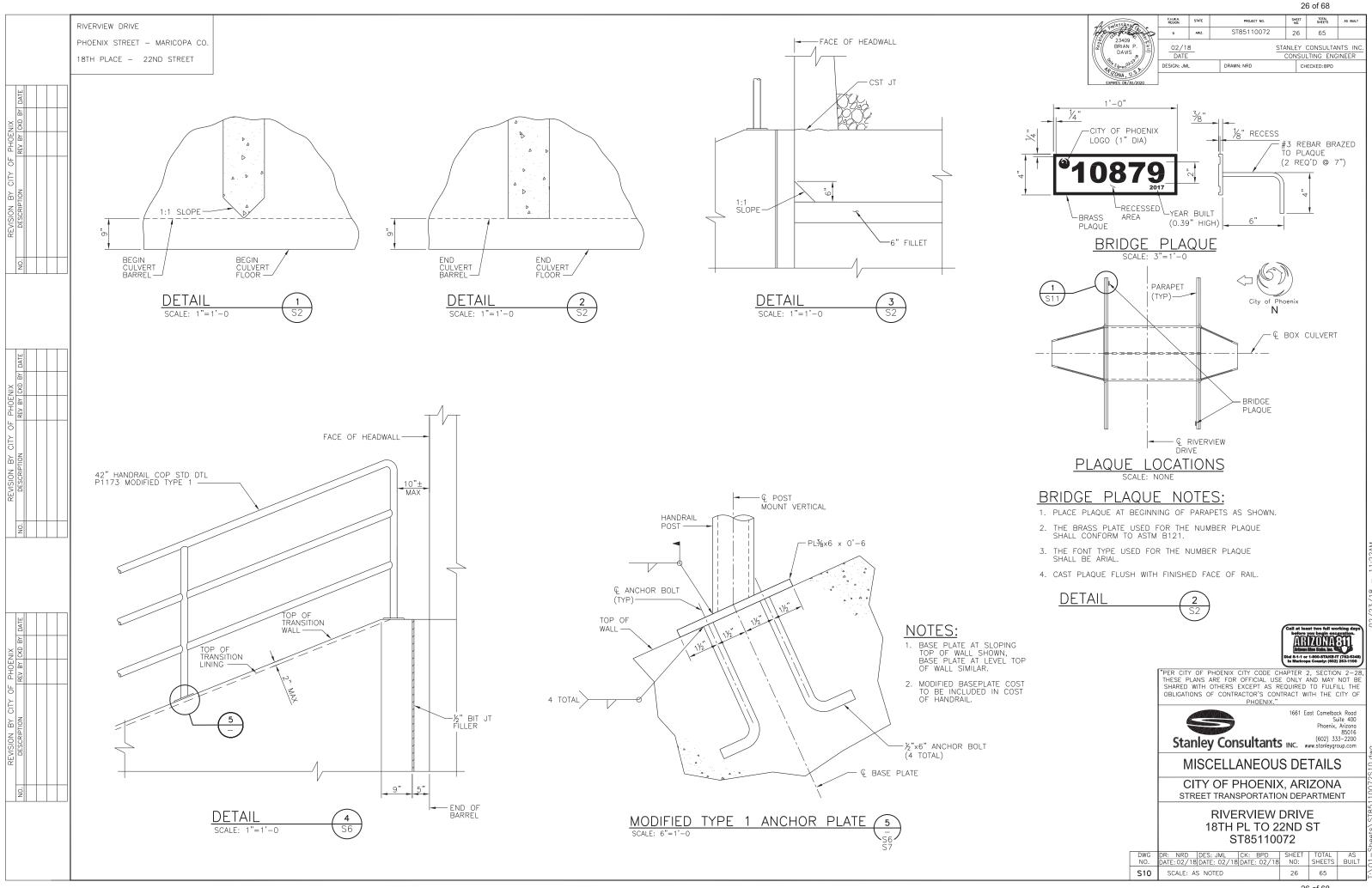


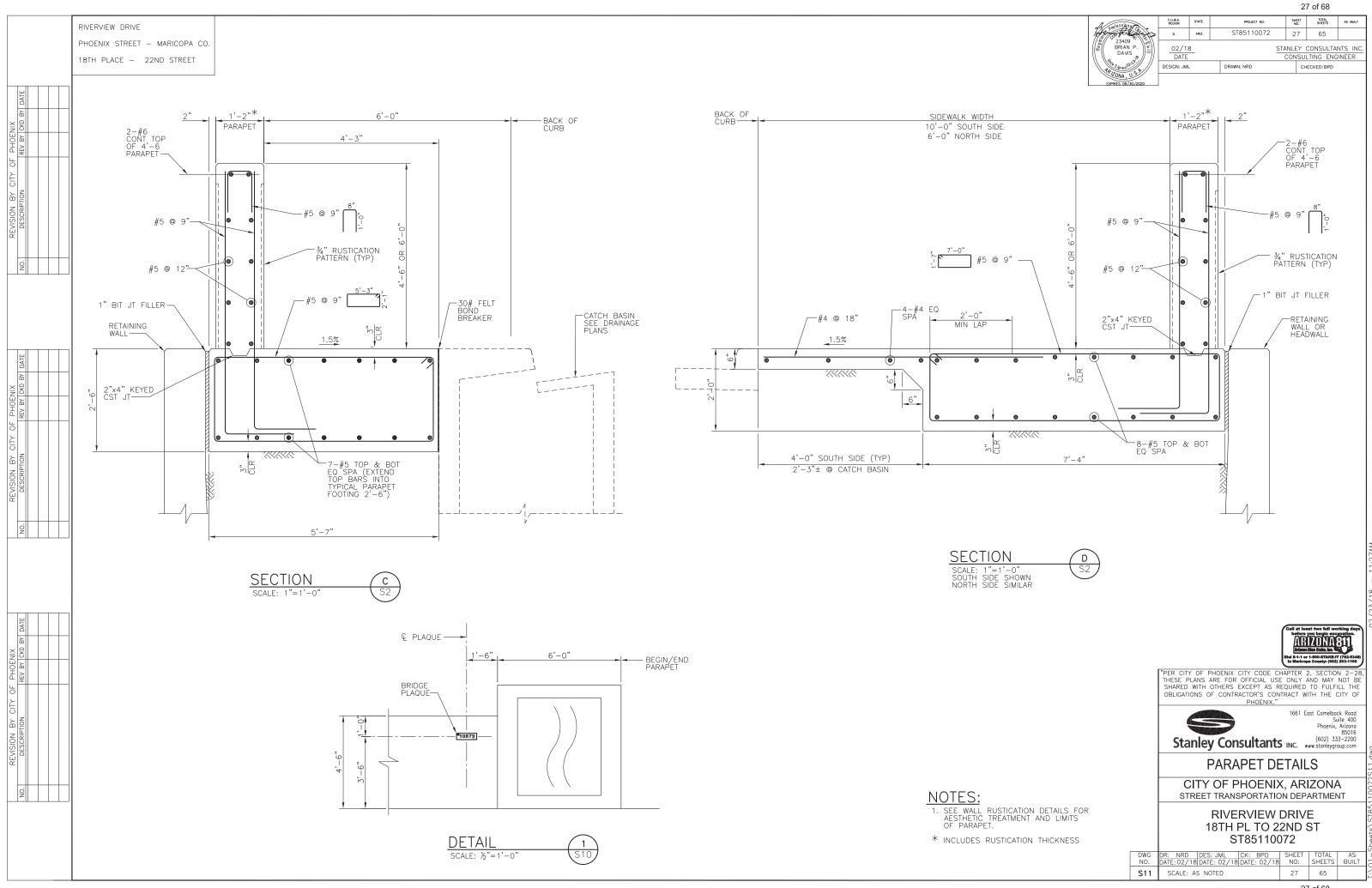
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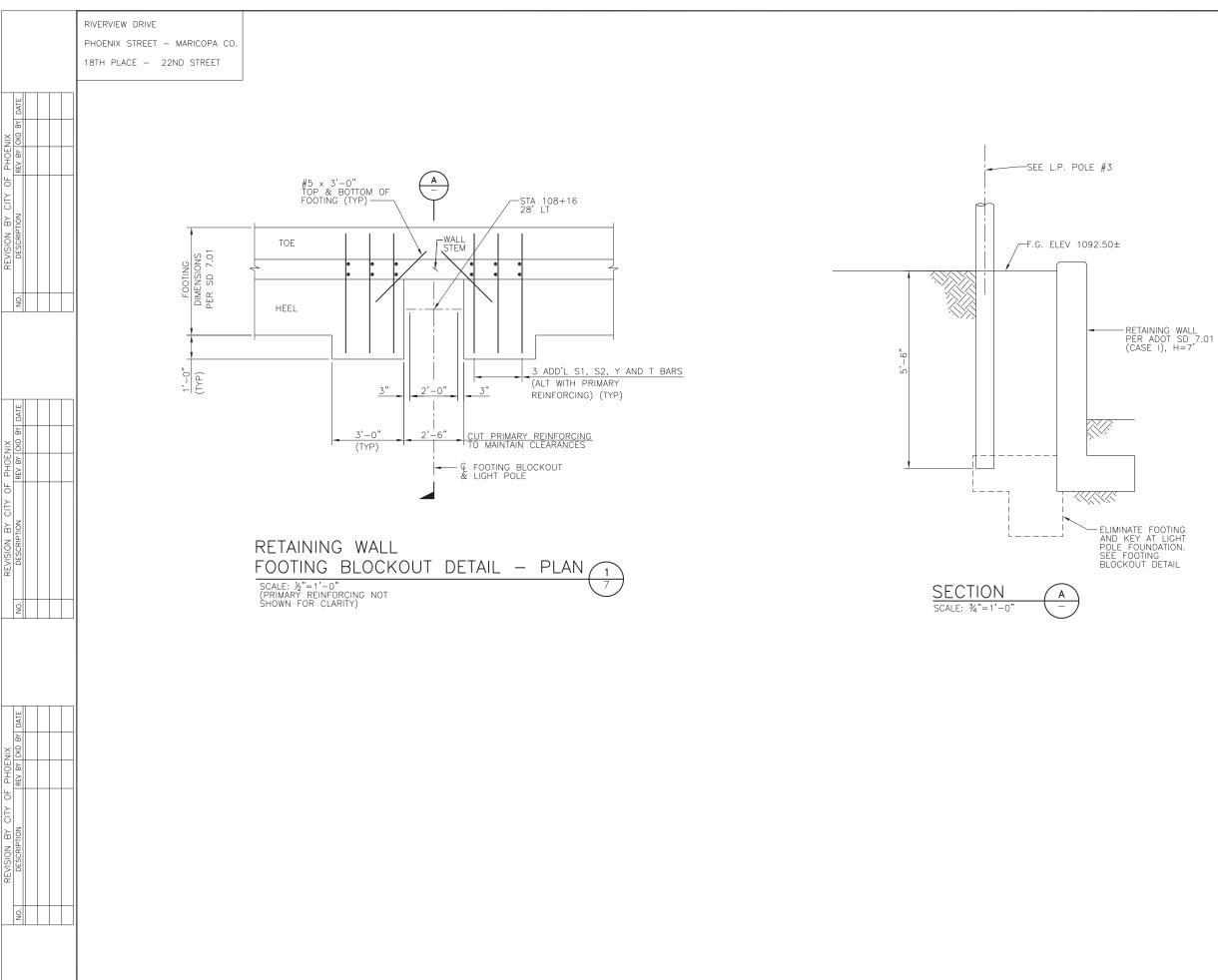


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# **CITY OF PHOENIX STREET LIGHTING RIVERVIEW DRIVE 18TH PLACE TO 22ND STREET**

#### ARIZONA PUBLIC SERVICE (APS) NOTES

- CONTRACTOR SHALL CONTACT APS INSPECTOR IDENTIFIED ON THE APS CONSTRUCTION DRAWING FOR PRE-CONSTRUCTION MEETING PRIOR TO ANY EXCAVATION.
- CONTRACTOR TO SUPPLY ALL TRENCH AND CONDUIT. PER APS REQUIREMENTS, UNLESS OTHERWISE NOTED.
- GRADE STAKE WILL BE SET WITHIN 2' OF J-BOX LOCATION. 3.
- 4. CONTRACTOR WILL COORDINATE WITH APS AND CITY OF PHOENIX FOR DE-ENERGIZING OF STREETLIGHT CONDUCTOR
- 5. GROUND ROD TO BE PROVIDED AND INSTALLED BY CONTRACTOR IN APS J-BOX AT EACH STREETLIGHT LOCATION.
- 6. IF THE CONTRACTOR INSTALLS THE POLE, THE BARE #6 COPPER GROUND WIRE SHALL BE CONNECTED FROM THE GROUND ROD IN THE APS J-BOX TO THE GROUND CONNECTION IN THE HAND-HOLE.
- ALL TRENCH AND CONDUIT TO BE INSPECTED BY APS. DO NOT BACKFILL UNTIL INSPECTED.
- APS CONSTRUCTION PRINT MUST BE USED AS A TRENCHING REFERENCE. TRENCHING VARIATIONS MUST HAVE WRITTEN APS CSR APPROVAL. FOLLOW DETAILS FOR 8. CONSTRUCTION. VARIATIONS IN TRENCH ROUTE MAY RESULT IN A REDESIGN FEE.
- 9. CONTACT APS FOR ALL TRENCH AND CONDUIT SPECIFICATIONS AND REQUIREMENTS.
- 10. CONTRACTOR IS RESPONSIBLE FOR INTEGRITY OF ALL CONDUITS UNTIL APS HAS INSTALLED CONDUCTORS.
- 11. CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED VARIANCES PRIOR TO SUBMITTING CIP DRAWINGS TO THE UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING VERTICAL AND HORIZONTAL CLEARANCES TO EXISTING OVERHEAD LINES AND POLES WHEN PLACING NEW STREETLIGHTS. 12.

#### STREETLIGHT NOTES

- 1 INSTALL ONE 70 W LED (6.634 LUMEN) CLEAR WHITE FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38-6" POLE PER STD 8040 (POLE CODE 1944.38) WITH A 2' MAST ARM PER APS STD. GROUNDING PER APS STANDARDS AND SPECIFICATIONS. INSTALL (2) #14 THIN/THWN FROM LUMINARE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1° FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.
- INSTALL ONE 70 W LED (6,634 LUMEN) CLEAR WHITE FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30"-6" POLE PER STD 8040 (POLE CODE 1944.30), WITH A 2" 2 MAST ARM PER APS STD. GROUNDING PER APS STANDARDS AND SPECIFICATIONS, INSTALL (2) #14 THHW/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.
- 3 INSTALL ONE 70 W LED (6.634 LUMEN) CLEAR WHITE FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30'-6" POLE PER STD 8040 (POLE CODE 1944.30) MOUNTED BEHND WALL (SEE DETAIL ON SHEET 28) 5.24 FEET ABOVE SIDEWALK WITH A 2 MAST ARM PER APS STD. GROUNDING PER APS STANDARDS AND SPECIFICATIONS, INSTALL (2) #14 THHIV/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE, INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS, ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.

#### STREET LIGHTING GENERAL NOTES

THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS

- THE CONTRACTOR SHALL COMPLY WITH STATE AND CITY STATUTES AND ORDINANCES.
- PRIOR TO SUBMITTAL, THE STREET LIGHT DESIGNER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THEY WILL OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT
- THE PROJECT INSPECTOR SHOULD VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT DIFFERENCES TO THE DEVELOPER'S CONSTRUCTION MANAGER AND NOT PROCEED WITH WORK UNTIL THE CONSTRUCTION MANAGER RENDERS A DECISION.
- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN CITY OF PHOENIX RIGHT-OF-WAY.
- ONE DRY UTILITY PERMIT FOR EACH CITY OF PHOENIX STREET LIGHT PROJECT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- LIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED 6. WHEN THE INSTALLATION IS COMPLETED.
- STREET LIGHTS ARE INSPECTED BY THE CITY OF PHOENIX STREETLIGHTING INSPECTOR. WHEN ACCEPTED AND ENERGIZED. THE POLE NUMBERS ARE TO BE INSTALLED BY THE CONTRACTOR.
- LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCELL. THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT
- LUMINAIRES FURNISHED WITH MULTI-TAP BALLASTS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY
- 10. POLE SHALL BE SET PLUMB IN TWO DIRECTIONS, NINETY (90) DEGREES APART
- 11. SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- 12. WIRING SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. CONDUIT SHALL BE INSTALLED AT THE DEPTH SPECIFIED ON THEIR PLANS
- CONDUIT MUST BE UL RATED AND SUITABLE FOR UNDERGROUND USE PER UTILITY COMPANY REQUIREMENT
- 14. CONNECTIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS, EACH POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. A #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN STREET LIGHT POLE HAND HOLE IS REQUIRED
- 15. EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS.
- 16. TRENCHES SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF THE TRENCHING AND THE INSTALLATION OF CONDUIT. 17.
- 18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH MAG SPECIFICATION SECTION 107.9.
- 19 PRIOR TO ACCEPTANCE. THE DEVELOPER SHALL ENERGIZE AND OPERATE THE ENTIRE ROADWAY LIGHTING SYSTEM. FROM SUINSET TO SUINBISE FOR TWO (2) THIGH PAGET INFORMEDIATE INTERRUPTION OR FAILURE. IF A LIMP OR BALLAST SHOLLD FAIL TS HALL DE IMMEDIATELY REPLACED. THE DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING ALL PERSONNEL AND EQUIPMENT TO SUCCESSFULLY PERFORM THIS TEST.
- 20. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PENIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP.
- WITHIN THE WARRANTY PERIOD SHALL BE . REPLACED WITHOUT COST TO THE C

#### LEGEND

¤── NEW STREETLIGHT POLE (SEE NOTES ON DWG NP. SL-2 FOR DESCRIPTION

≍ - → EXISTING STREET LIGHT POLE

□ STREET LIGHT JUNCTION BOX PER APS STANDARDS

	INDEX

COVER SHEET	29
SITE PLAN	30
DETAIL SHEET	31

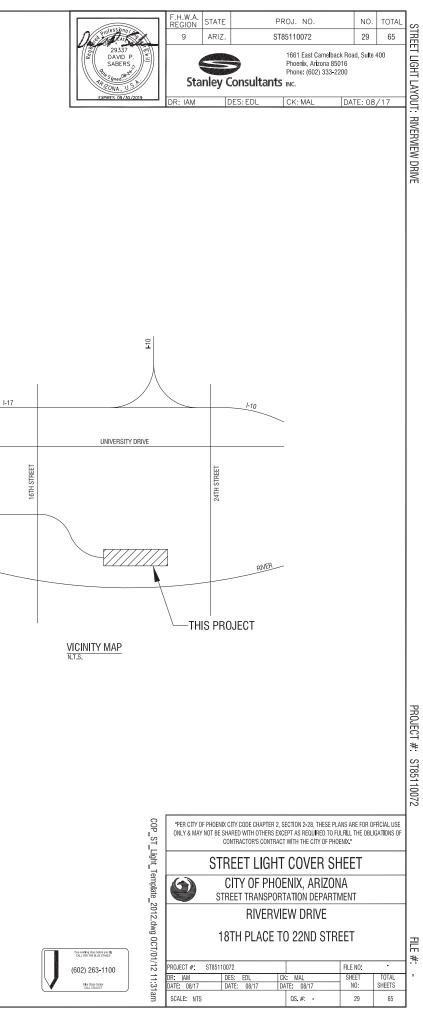
ITEM NUMBER	TYPE OF STREET	QUANTITY	Mounting Height	POLE LENGTH	MAST ARM	APPROVED POLE & ARM MANUFACTURERS	LUMEN	TYPE	WATTAGE	VOLTAGE	APPROVED LUMINAIRE MANUFACTURERS
1	COLLECTOR	5	32'	38'-6"	2'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	6,634	LED	70 W	120/208/240/277 AS POWER CO. REQUIRES	AMERICAN ELECTRIC ATBM B MVOLT R2 27K MP NL P7 RFD213834
2	COLLECTOR	4	25'	30'-6"	2'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	6,634	LED	70 W	120/208/240/277 AS POWER CO. REQUIRES	AMERICAN ELECTRIC ATBM B MVOLT R2 27K MP NL P7 RFD213834
3	COLLECTOR	1	30.24	30'-6"	2'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	6,634	LED	70 W	120/208/240/277 AS POWER CO. REQUIRES	AMERICAN ELECTRIC ATBM B MVOLT R2 27K MP NL P7 RFD213834

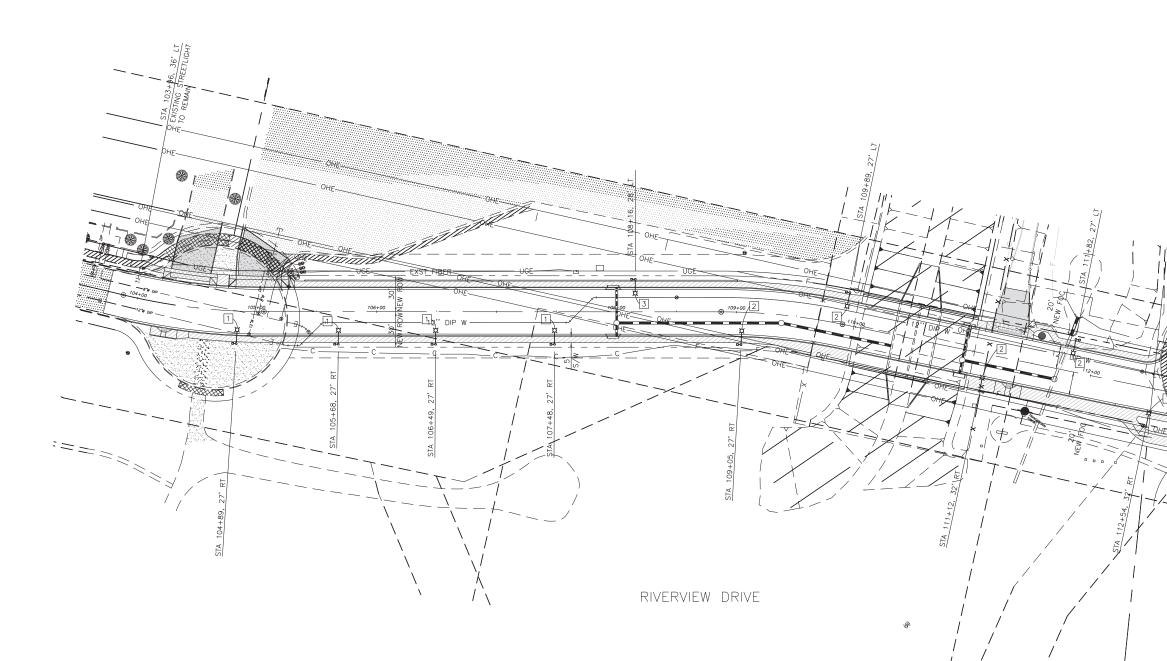
ALL CATALOG NUMBERS SHALL BE CONFIRMED WITH POWER COMPANY PRIOR TO ORDERING

SALT

- 21. THIS GUARANTEE IS TO BE IN WRITING TO THE CITY AT THE TIME OF ISSUING FINAL ACCEPTANCE. MATERIALS AND WORKMANSHIP FOUND TO BE DEFECTIVE

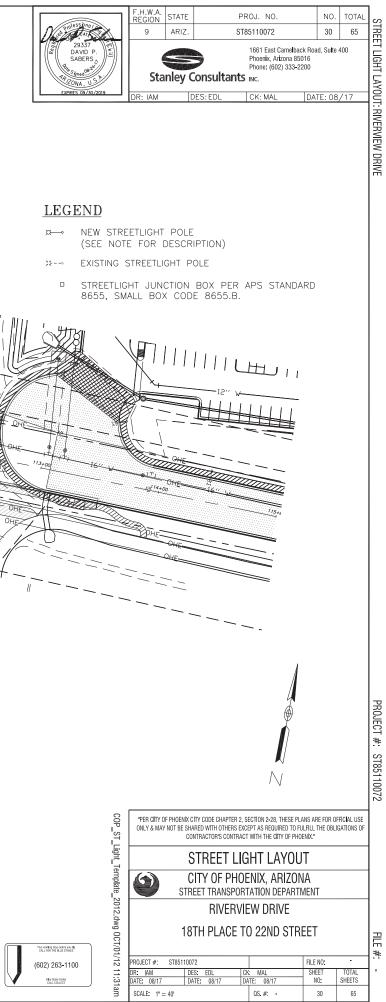
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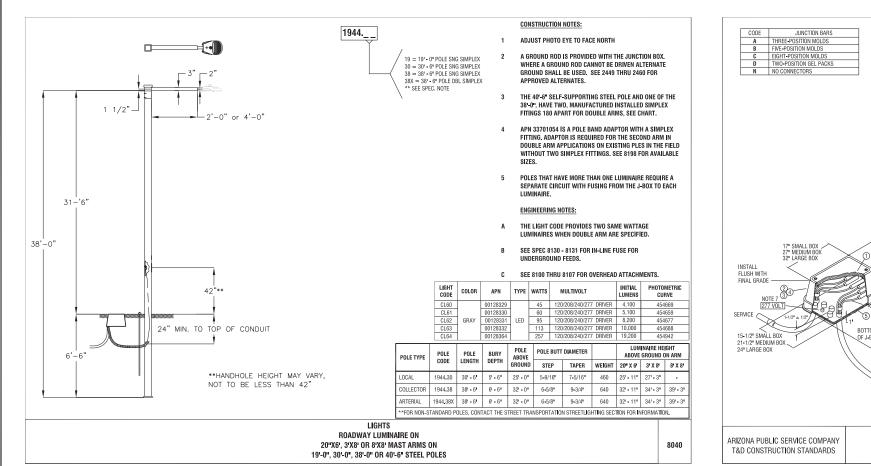


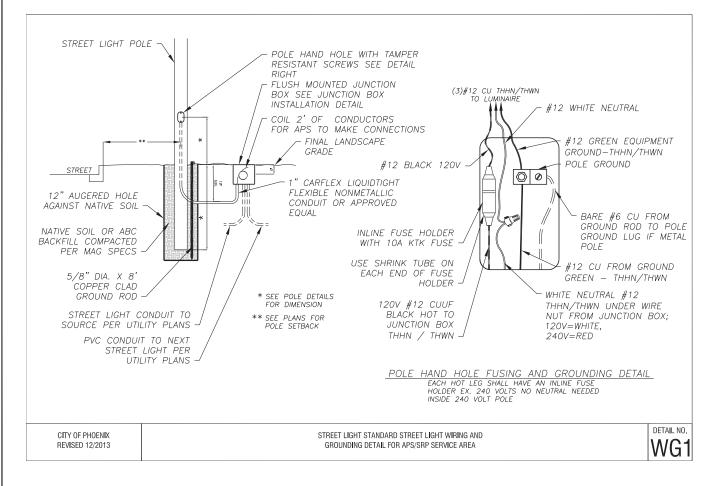


### STREETLIGHT NOTES

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#### SMALL BOX _____ SEE NOTE 10 AND 12 8656. MEDIUM BOX ____ SEE NOTE 13 8657. LARGE BOX IE APPLICABLE G = APS GROUT APPROVED IF APPICABLE L = LIGHTS - SECONDARY WIRE CODES - JUNCTION BARS NOTES: 1. CONCRETE GROUT SHALL BE PREMIX, APN 71301280 OR EQUIVALENT. 2. PENTA-HEAD BOLTS SHALL BE INSTALLED PRIOR TO ENERGIZING NEW UNDERGROUND SYSTEMS. LOST OR MISPLACED PENTA-HEAD BOLTS SHALL BE REPLACED WITH APN 71402608. 3. BRINGING ALL CABLE/CONDUITS AND GROUND ROD INTO BRINGING ALL CABLE/CUNUUTS AND GROUND ROUTING THE SAME END OF THE BOX TO ENABLE CABLES TO BE RAISED AND LOWERED EASILY. CONDUIT SWEEPS SHALL BE POSITIONED AND ALIGNED SO THAT WHEN TWO AND FOUR 12" SMALL BOX 14-1/2 MED. BOX 18-1/2 LARGE BOX POSITIONED AND ALIGNED SO THAT WHEN TWO AND FOUR POSITION JUNCTION BARS ARE SPECIFIED, THE ST. L.T., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAL "A", WHEN SIX POSITION JUNCTION BARS ARE SPECIFIED. THE ST. L.T., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN CITATUR "B" 12" FOR SMALL BOX 15" FOR MEDIUM BOX 18" FOR LARGE BOX DETAIL "B". 4. COMPACTION BENEATH AND AROUND JUNCTION BOX SHALL BE A MINIMUM OF 85 PERCENT. ERENCE 1 5 GROUT PEF NOTE 1 5. REPLACEMENT LID FOR MEDIUM PLASTIC JUNCTION BOX IS 33100981. PENTAHEAD BOLTS AND EMS MARKER MUST BE REUSED FROM OLD LID. BOTTOM 21" SMALL BOX OF J-BOX 34" MEDIUM BOX 37" LARGE BOX ADDITIONAL TRENCH DEPTH IS USUALLY REQUIRED AT ALL EQUIPMENT LOCATIONS, SEE 8648 FOR THE MINIMUM TRENCH DEPTHS AND THE DEGREE OF SLOPE ALLOWED AS THE TRENCH DEPTH CHANGES. SEE 8648 AND NOTE 3 7. ON 277 VOLT STREET LIGHT CIRCUITS, INSTALL '277 VOLT' RED MICARTA TAG (APN 00080796) PROVIDED BY SPEC 8129. $\triangleleft$ 8. TORQUE BOLTS TO 5 FT - LBS (60 IN - LBS). SH 1 OF 1 SECTION SECTION/DESCRIPTION DESCRIPTION 3

SEE NOTE 10 AND 1

8655

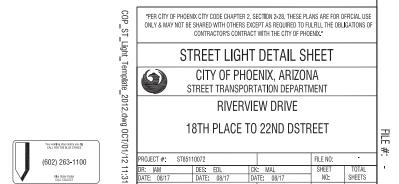
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#### **20 YEAR PHOTOCELL REQUIREMENTS**

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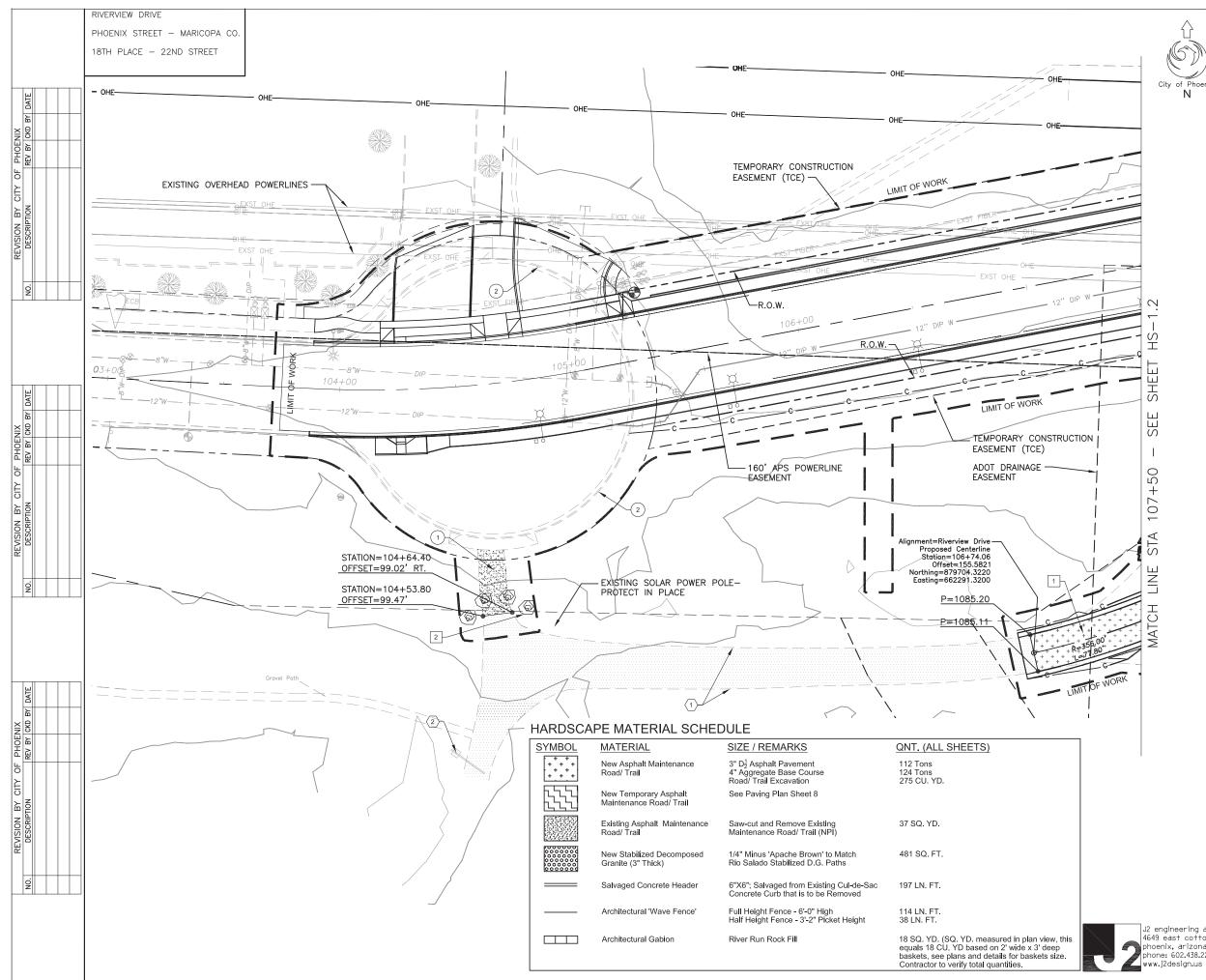
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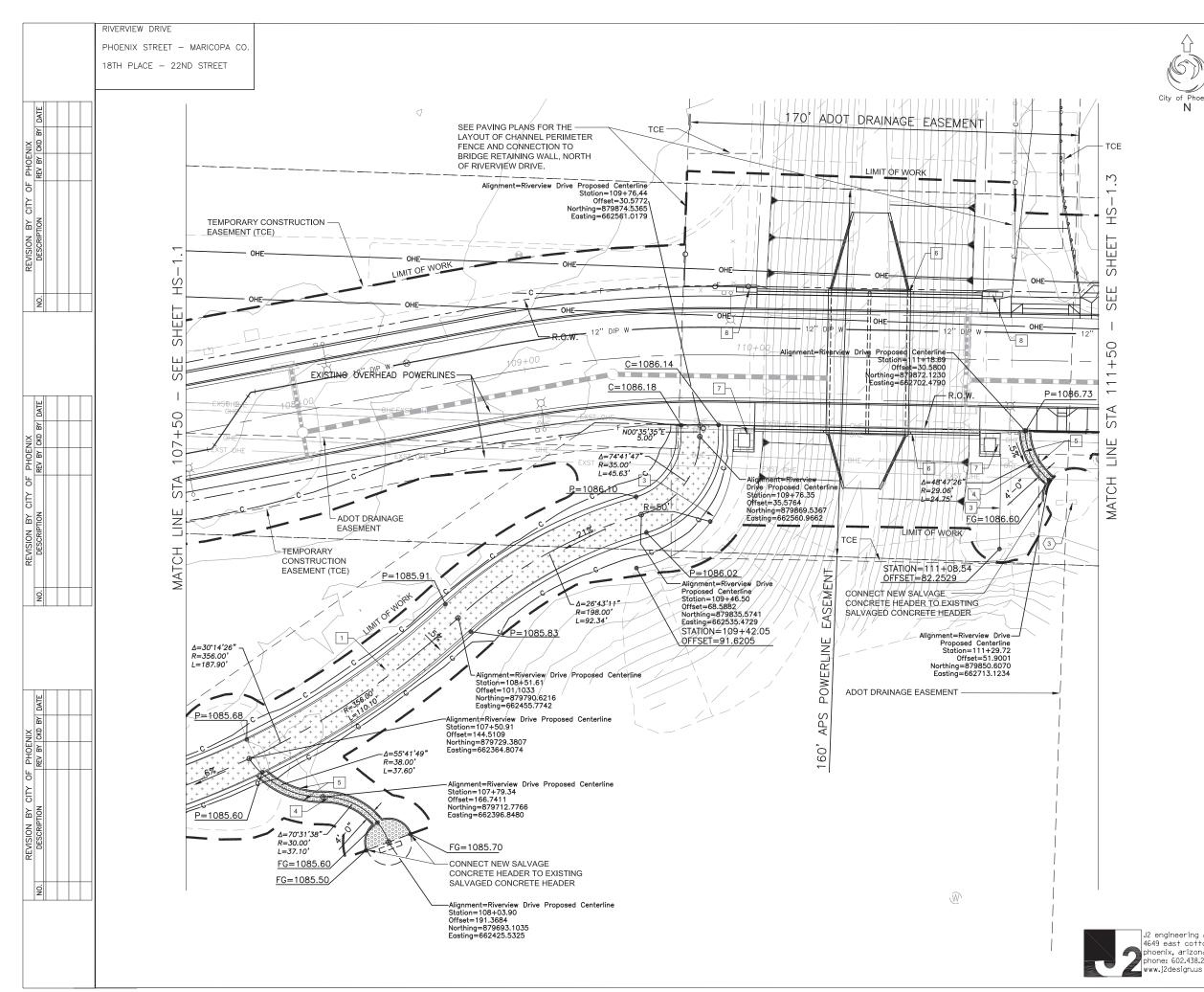
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SHEET TOTAL AS BUILT F.H.W.A. REGION STATE PROJECT NO ARIZ. ST85110072 33 96 9 DEAN A. 03/16 STANLEY CONSULTANTS INC 6 CONSULTING ENGINEER DATE ESIGN DRAWN CHECKED: City of Ν HARDSCAPE CONSTRUCTION NOTES: PROTECT IN PLACE EXISTING ASPHALT MAINTENANCE ROAD/ TRAIL- $\langle 1 \rangle$ PROTECT IN PLACE EXISTING SAFETY ACCESS CONTROL DEVICE TO TERRACE RAMP- PROTECT IN PLACE  $\langle 2 \rangle$ EXISTING TRAIL SEATING NODE WITH CONCRETE  $\langle 3 \rangle$ SEATWEALL & STABILIZED DECOMPOSED GRANITE-PROTECT IN PLACE EXISTING TRANSMISSION LINE TOWER- PROTECT IN  $\langle 4 \rangle$ PLACE **REMOVALS** SAWCUT AND REMOVE EXISTING ASPHALT (1)MAINTENANCE ROAD/ TRAIL (NPI) EXISTING CURB TO BE REMOVED PER CIVIL PANS. 2 RE-USE CONCRETE CURB AS SALVAGED CONCRETE HEADER PER DTL '5', SHT SD-1.1. **CONSTRUCTION** 16' WIDE ASPHALT MAINTENANCE ROAD/ TRAIL PER 16' WIDE ASPINEL ... DTL '1'; SHT SD-1.1. RELOCATE (4) EXISTING BOULDERS FROM THE 2 EXISTING PATHWAY DEAD END TO NEW LOCATION 6' HIGH ARCHITECTURAL 'WAVE' FENCE PER DTL '3'; 3 SHT SD-1.1. STABILIZED DECOMPOSED GRANITE PATH PER DTL '4'; 4 SHT SD-1.1 SALVAGED CONCRETE HEADER PER DTL '5', SHT 5 SALVAG BOX CULVERT PARAPET WALL & HEAD WALL- SEE 6 BRIDGE AESTHETIC PLANS & SHT SD-2.1 & SD-2.2. ARCHITECTURAL GABION BASKET PLANTER PER DTL 7 '1', SHT SD-1.2 ARCHITECTURAL GABION BASKET WALL PER DTL '1', 8 SHT SD-1.3 ARIZONA811 IORIZONTAL SCALE IN FEET ō 20 40 "PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX 1661 East Camelback Road Suite 400 Phoenix, Arizona 85016 Stanley Consultants INC. (602) 333–2200 www.stanleygroup.com HARDSCAPE PLAN

> CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT

> > **RIVERVIEW DRIVE** 18th PL TO 22nd ST.

> > > ST85110072

J2 engineering and environmental design 4649 east cotton gin loop, suite B2 phoenix, arizona 85040 none: 602.438.2221 DR: SP DES: DC/SP CK: DC DATE:03/16 DATE:03/16 DATE:03/16 NO:

HS-1.2 SCALE: 1" = 20'

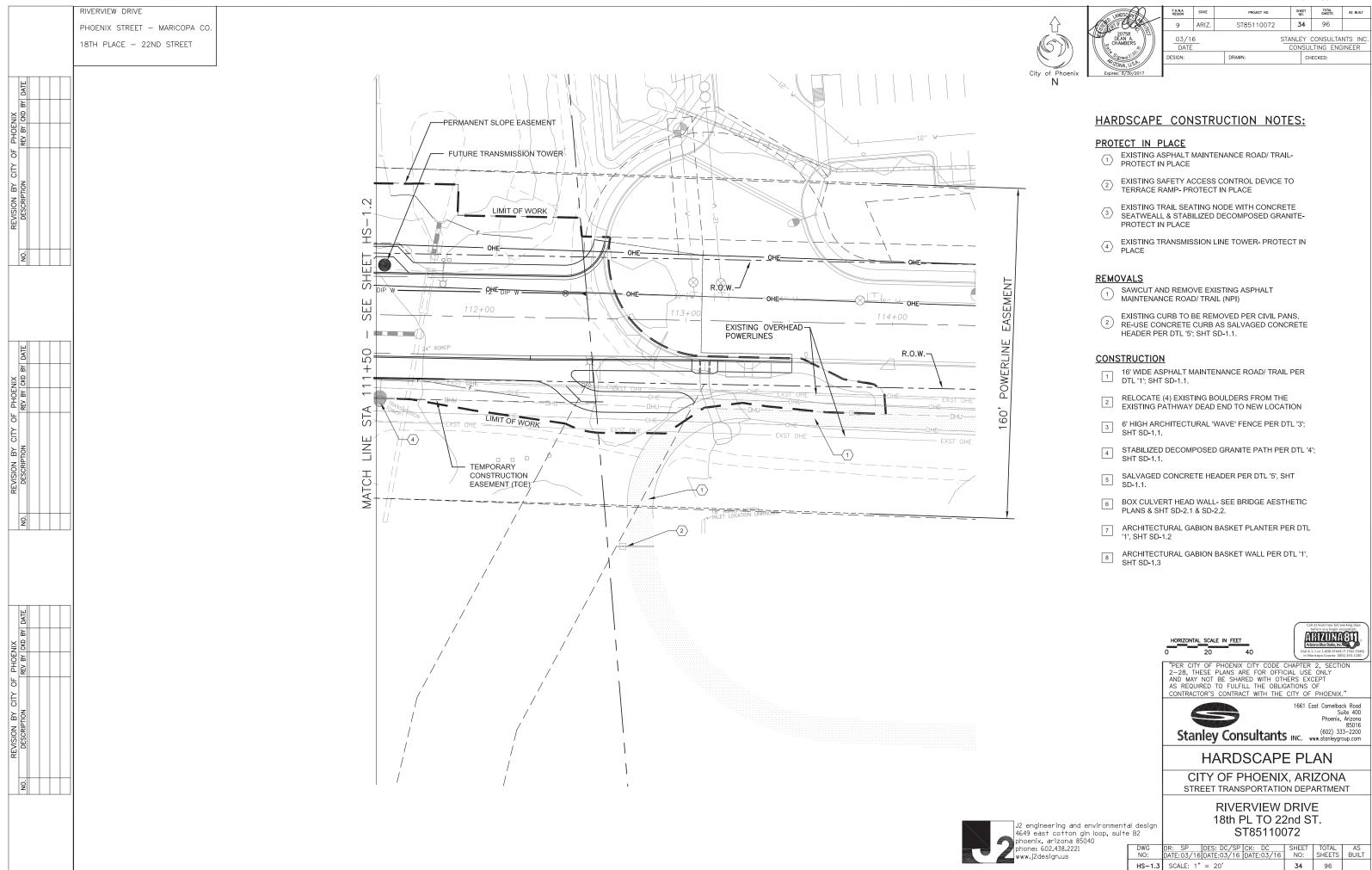
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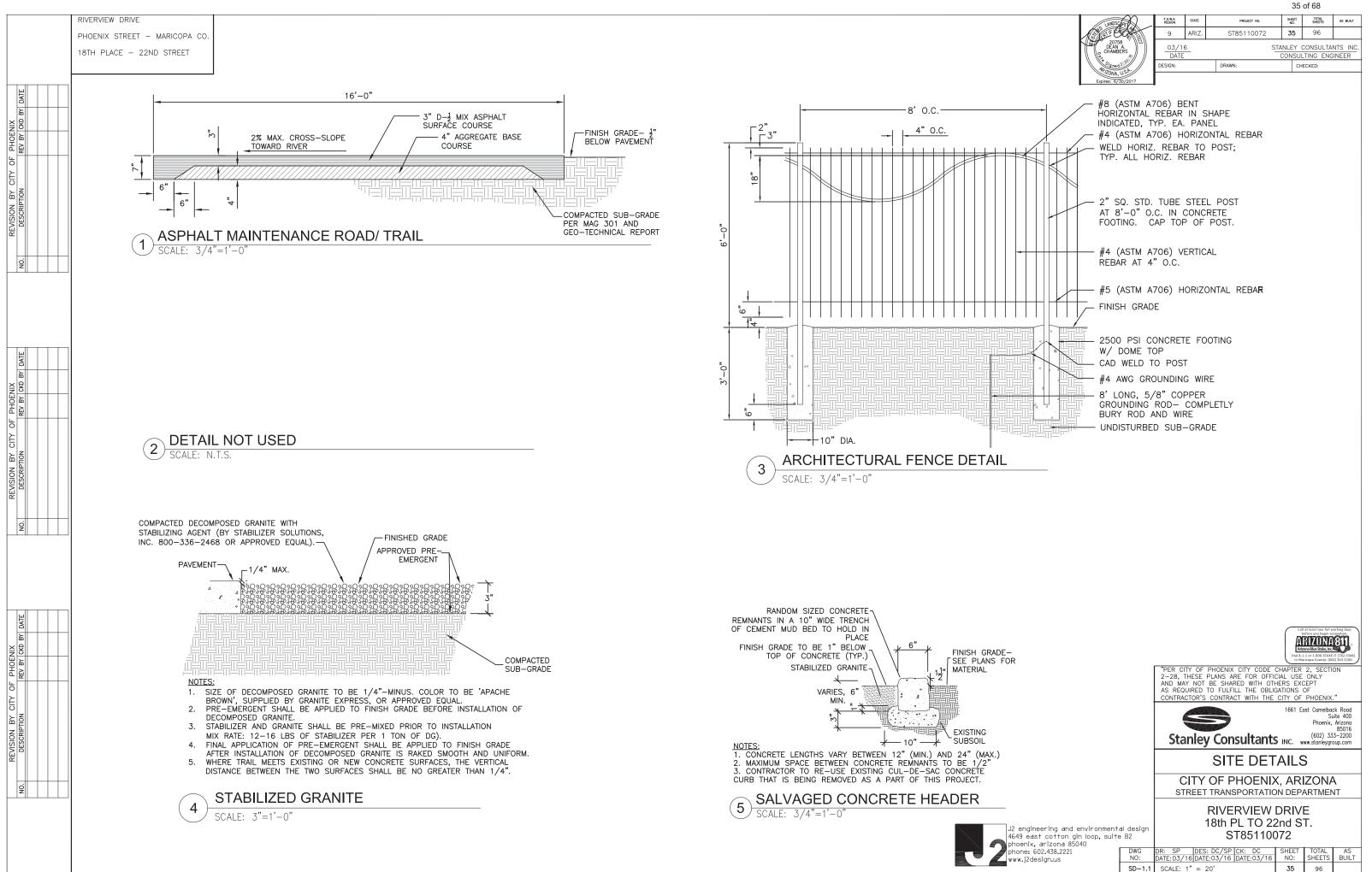
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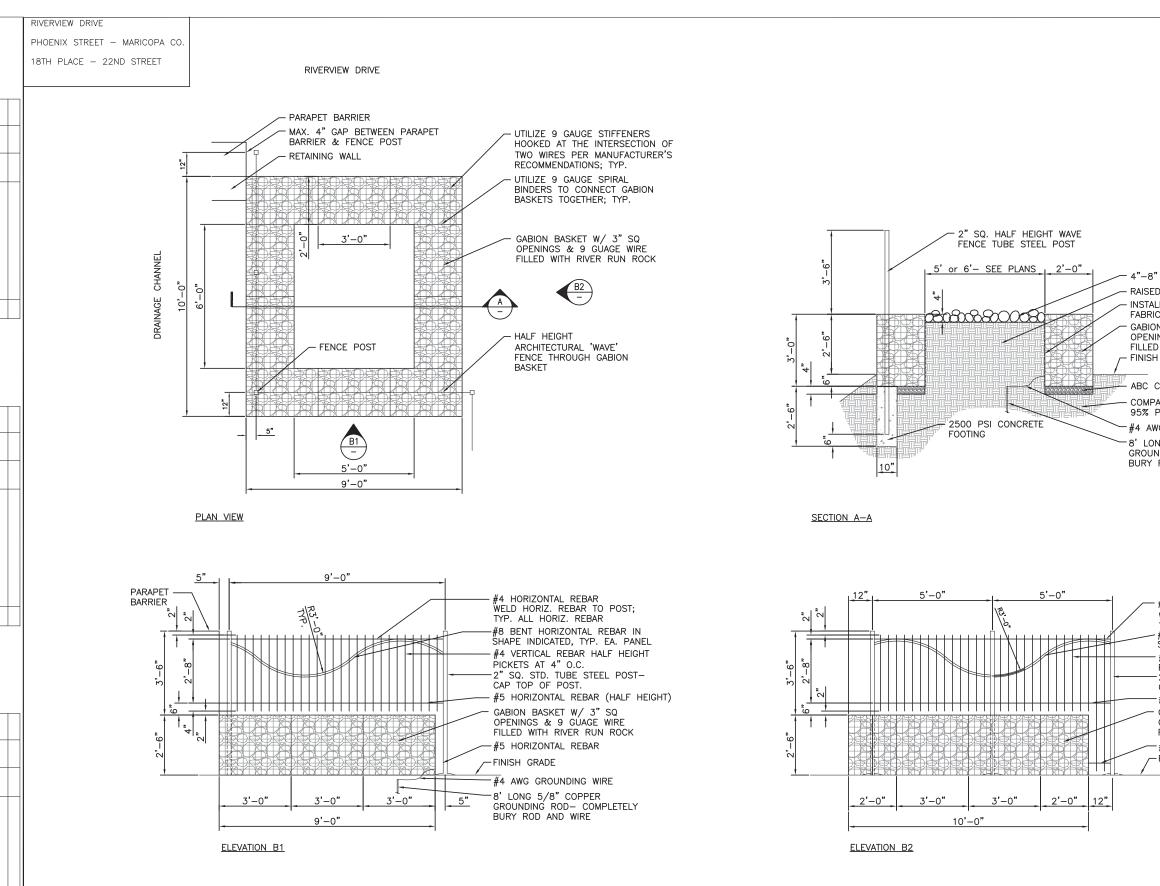
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GABION PLANTER- PLAN VIEW

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SCALE: 1/2"=1'-0"

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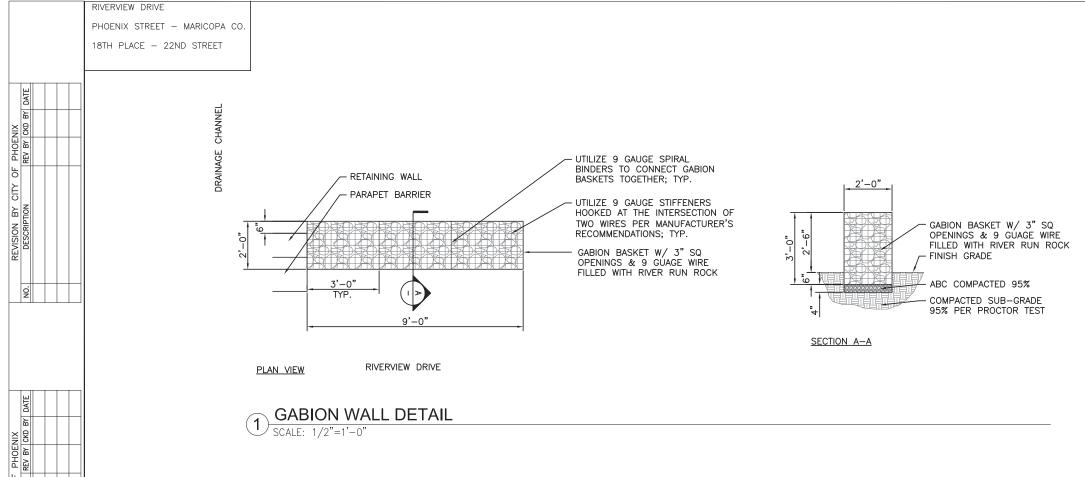


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	ASS COM	9	ARIZ.	ST85110072	3	6	96		
	20758 DEAN A. CHAMBERS					NLEY CONSULTANTS INC			
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	Expires: 6/30/2017								

- 4"-8" LANDSCAPE RIP-RAP
- RAISED SOIL PLANTER
- INSTALL HIGH SURVIVABILITY FILTER FABRIC BEHIND GABION BASKETS
- GABION BASKET W/ 3" SQ OPENINGS & 9 GUAGE WIRE FILLED WITH RIVER RUN ROCK
- FINISH GRADE
- ABC COMPACTED 95%
- COMPACTED SUB-GRADE
- 95% PER PROCTOR TEST
- #4 AWG GROUNDING WIRE
- -8' LONG 5/8" COPPER GROUNDING ROD- COMPLETELY BURY ROD AND WIRE

<pre>#4 HORIZONTAL REBAR WELD HORIZ. REBAR TO POST; TYP. ALL HORIZ. REBAR IN SHAPE INDICATED, TYP. EA. PANEL #8 BENT HORIZONTAL REBAR HALF HEIGHT PICKETS AT 4" O.C. 2" SQ. STD. TUBE STEEL POST- CAP TOP OF POST. #5 HORIZONTAL REBAR (HALF HEIGHT) GABION BASKET W/ 3" SQ OPENINGS &amp; 9 GUAGE WIRE FILLED WITH RIVER RUN ROCK #5 HORIZONTAL REBAR</pre>						
FINISH GRADE	ARZONASSI Aritoria Biar State, Inc. Dial B-1. or 1-300.5TAEKT (782-5348) in Marciaco Automit, (602) 24-3100					
	"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."					
	1661 East Carnelback Road Suite 400 Phoenix, Arizona 85016 Stanley Consultants INC. www.stanleygroup.com					
	SITE DETAILS					
	CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
RIVERVIEW DRIVE 18th PL TO 22nd ST. 149 east cotton gin loop, suite B2 18th PL TO 22nd ST. ST85110072						
ww.j2design.us	DR:         SP         DES:         DC/SP         CK:         DC         SHEET         TOTAL         AS           DATE:03/16         DATE:03/16         DATE:03/16         DATE:03/16         SHEETS         BUILT           .2         SCALE:         1" = 20'         36         96         SHEETS					

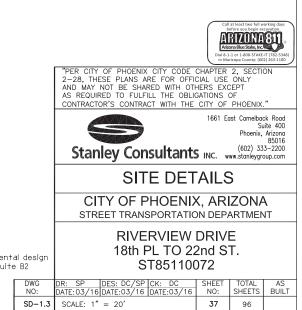


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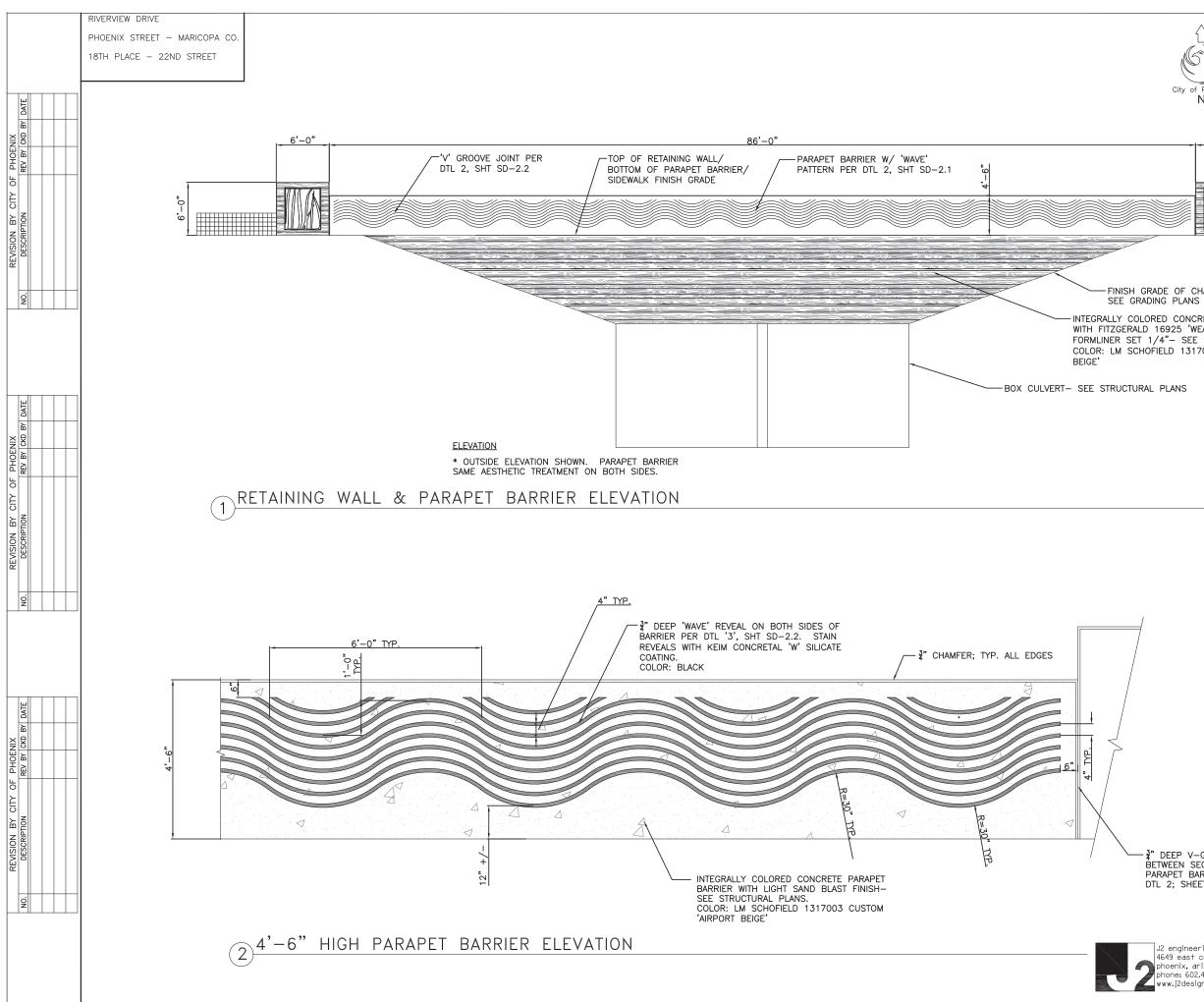


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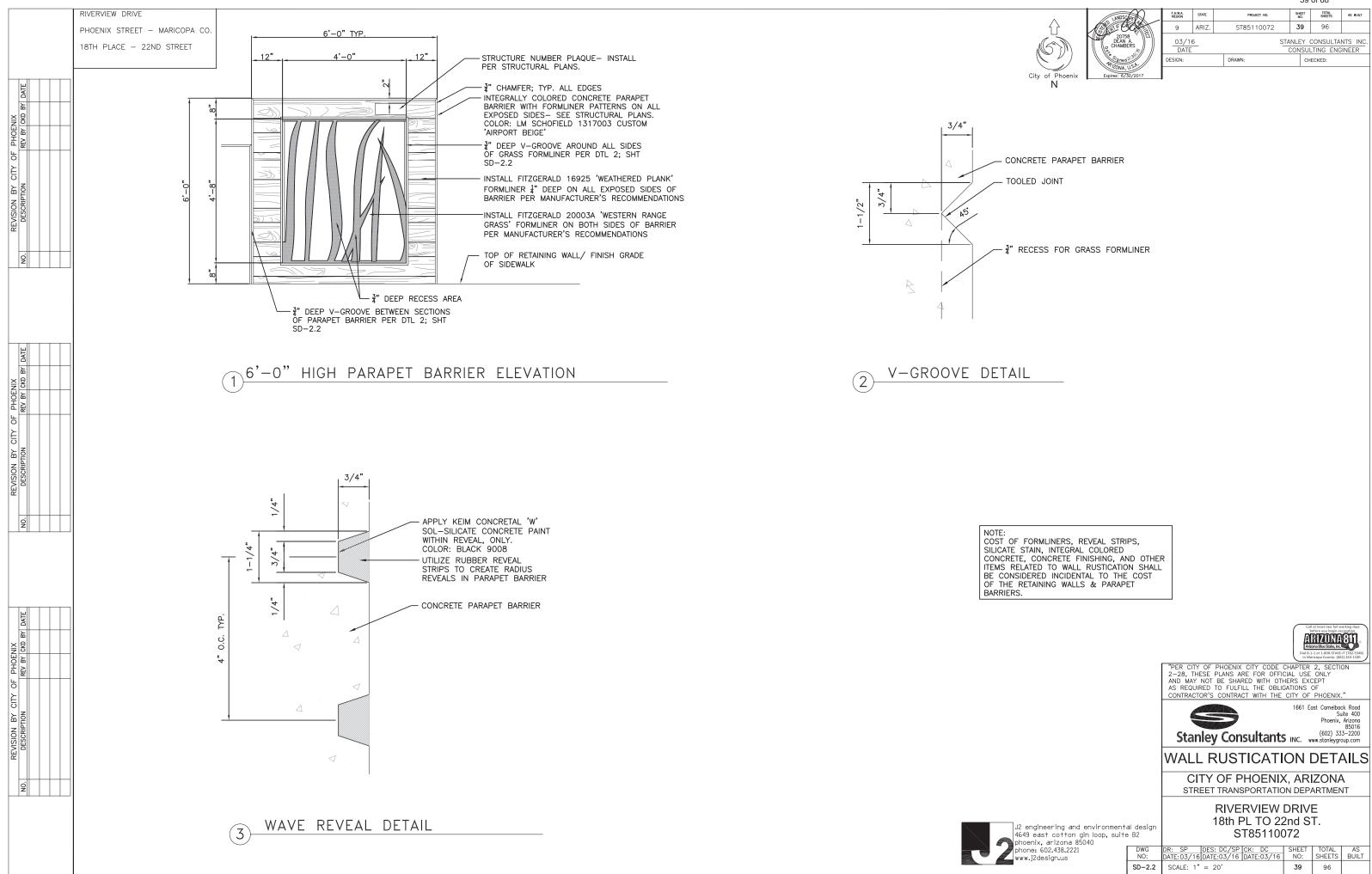
T	UNDSCREE	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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	20758 DEAN A. CHAMBERS	03/10 DATE		SI		CONSULTA	
	Signed ^{3,30}	DESIGN:		DRAWN:	с	HECKED:	
	Expires: 6/30/2017						



J2 engineering and environmental design 4649 east cotton gin loop, suite B2 phoenix, arizona 85040 phone: 602.438 222'



38 of 68 SHEET TOTAL AS BUILT F.H.W.A REGION PROJECT NO ST85110072 **38** 96 9 ARIZ DEAN A. 03/16 STANLEY CONSULTANTS INC DATE CONSULTING ENGINEER ESIGN: DRAWN CHECKED: City of Ν 6'-0" STRUCTURE NUMBER PLAQUE- RIGHT END OF BOTH PARAPET BARRIERS ON THE STREET SIDE ONLY RAISED PARAPET BARRIER PER DTL 1, SHT SD-2.2 -OFF-BRIDGE GABION BASKETS PER DTL 1, SHT SD-1.2 & DTL 1, SHT SD-1.3 FINISH GRADE OF CHANNEL-INTEGRALLY COLORED CONCRETE RETAINING WALL WITH FITZGERALD 16925 'WEATHERED PLANK' FORMLINER SET 1/4"- SEE STRUCTRUAL PLANS COLOR: LM SCHOFIELD 1317003 CUSTOM 'AIRPORT NOTE: COST OF FORMLINERS, REVEAL STRIPS, SILICATE STAIN, INTEGRAL COLORED CONCRETE, CONCRETE FINISHING, AND OTHER ITEMS RELATED TO WALL RUSTIFICATION SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE RETAINING WALLS & PARAPET BARRIERS. ARIZONA81 "PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX 1661 East Camelback Road Suite 400 Phoenix, Arizona 85016 Stanley Consultants INC. (602) 333–2200 www.stanleygroup.com 3" DEEP V-GROOVE BETWEEN SECTIONS OF WALL RUSTICATION DETAILS PARAPET BARRIER PER DTL 2; SHEET SD-2.2 CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT **RIVERVIEW DRIVE** 18th PL TO 22nd ST. J2 engineering and environmental design 4649 east cotton gin loop, suite B2 phoenix, arizona 85040 ST85110072 none: 602.438.2221 DWG NO: SHEE DR: SP DES: DC/SP CK: DC DATE:03/16 DATE:03/16 DATE:03/16 NO: SHEETS BUILT ww.j2design.us SD-2.1 SCALE: 1" = 20' 38 96







_	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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# RIVERVIEW DRIVE

PHOENIX STREET - MARICOPA CO.

18TH PLACE - 22ND STREET

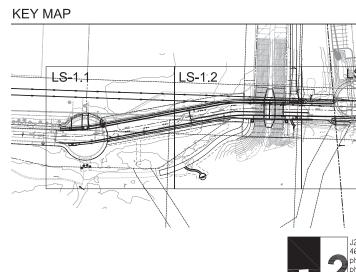
1. FINAL BUILDING PERMIT CANNOT BE OBTAINED UNTIL BONDING OR APPROVED ASSURANCES IS PROVIDED FOR THE LANDSCAPING WITHIN THE RIGHT-OF-WAY

2. NO PLANT SUBSTITUTIONS, TYPE, OR QUANTITY DEVIATIONS FROM THE APPROVED LANDSCAPE OR IRRIGATION PLANS WITHOUT PRIOR APPROVAL FROM THE CITY OF PHOENIX AT 602-262-6653.

LANDSCAPE NOTES

- 3. ALL PLANT MATERIAL SPECIFICATIONS TO CONFORM TO THE ARIZONA NURSERYMAN ASSOCIATION STANDARDS.
- 4. ALL RIGHT-OF-WAY PLANT MATERIAL TO BE IN COMPLIANCE WITH THE DEPARTMENT OF WATER RESOURCES LOW WATER USE PLANT LIST.
- 5. VERIFY OWNERSHIP OF ANY PLANT MATERIAL OR IRRIGATION LOCATED IN PUBLIC RIGHT-OF-WAY. OBTAIN PERMISSION FROM PARKS & RECREATION DEPARTMENT (PRD), IN WRITING, PRIOR TO REMOVAL OF ANY CITY PLANT MATERIAL OR EQUIPMENT. CONTACT 602-262-6862.
- 6. ALL EXISTING TREES AND SHRUBS IN RIGHT-OF-WAY DESIGNATED TO REMAIN BUT ARE DEMAGED OR DESTROYED WILL BE REPLACED IN LIKE SIZE AND KIND BY THE CONTRACTOR. CONTACT THE PARKS & RECREATION DEPARTMENT PRIOR TO ANY RIGHT-OF-WAY PLANT RELOCATIONS AT 602-262-6862.
- 7. EXISTING CITY OF PHOENIX IRRIGATION SHALL BE MODIFIED IN RIGHT-OF-WAY AND CONNECTED TO THE NEW SYSTEM. MAINTAIN ANY THROUGH IRRIGATION REQUIREMENTS. CONTRACTOR TO CAP OFF OR ABANDON EXISTING IRRIGATION TO PLANT MATERIAL AND PROVIDE NEW IRRIGATION FROM PROJECT TO EXISTING RIGHT-OF-WAY LANDSCAPING.
- 8. ALL ON-SITE ACCESSIBLE SIDEWALKS SHALL BE A MINIMUM OF 3 FEET 0 INCHES WIDE AND HAVE A MAXIMUM SLOPE OF 1:20 WITH THE MAXIMUM CROSS SLOPE OF 1:50. ALL CURBS MUST PROVIDE ACCESSIBLE RAMPS PURSUANTE TO THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS.
- 9. WALLS ARE NOT APPROVED AS PART OF THE LANDSCAPE PLAN BUT ARE SHOWN FOR REFERNCE ONLY
- 10. ALL RIGHT-OF-WAY PLANT MATERIAL TO BE IN COMPLIANCE WITH THE DEPARTMENT OF WATER RESOURCES LOW WATER USE PLANT LIST.
- 11. IRRIGATION BACKFLOW PREVENTERS SHALL HAVE A PLUMBING PERMIT AND PRESSURE DIFFERENTIAL TEST APPROVAL BEFORE FINAL INSPECTION
- 12. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS CODES AND REGULATIONS APPLICABLE TO THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE LANDSCAPE CONSTRUCTION WORK COVERED BY THESE PLANS AND SPECIFICATIONS.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THE LANDSCAPE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL FOR BLUE STAKE 263-1100 PRIOR TO ANY **EXCAVATION**
- 15. ALL GENERAL SITE GRADING TO WITHIN (0.10 FOOT, INCLUDING ALL BERMS, SWALES AND RETENTION AREAS WILL BE CONSTRUCTED AS PER THE GRADING AND DRAINAGE PLANS. LANDSCAPE AREAS SHALL NOT EXCEED 3 TO 1 MAXIMUM SLOPE. THE LANDSCAPE AND IRRIGATION CONTRACTOR SHALL VERIFY AND ACCEPT THESE ROUGH GRADES PRIOR TO STARTING ANY LANDSCAPE AND IRRIGATION WORK, ALL DRAINAGE FLOWS SHALL BE PROTECTED AND MAINTAINED THROUGHOUT LANDSCAPE AND IRRIGATION CONSTRUCTION.
- 16. ANY DISCREPANCIES FOUND BETWEEN THESE PLANS AND SPECIFICATIONS AND THE SITE SHALL BE REPORTED TO THE CITY OF PHOENIX PRIOR TO STARTING ANY LANDSCAPE AND IRRIGATION WORK
- 17. LANDSCAPE IRRIGATION WATER METERS SHALL REMAIN IN THE CONTRACTOR'S NAME AND ALL LANDSCAPE WATER COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE TO THE END OF THE MAINTENANCE PERIOD AND WATER METER ACCOUNTS HAVE BEEN TRANSFERRED TO THE CITY OF PHOENIX PARKS DEPARTMENT

- 18. SHOULD THE LANDSCAPE CONTRACTOR HAVE ANY QUESTIONS REGARDING THESE PLANS AND SPECIFICATIONS, OR SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL CONTACT THE CITY OF PHOENIX FOR CLARIFICATION BEFORE PROCEEDING FURTHER WITH ANY OTHER WORK.
- 19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE JOB SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT COULD AFFECT THE INSTALLATION OF ANY WORK SET FORTH IN THESE PLANS OR CITY SPECIFICATIONS PRIOR TO SUBMITTING A BID.
- 20. CONTRACTOR SHALL VERIEV ROCK AND SOIL CONDITIONS WITHIN THE PROJECT SITE PRIOR TO BIDDING. NO EXTRA PAYMENT OR TIME EXTENSION WILL BE GIVEN DUE TO ROCKY SOIL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING SITE INSPECTIONS AND CHECKING TESTING LOGS TO DETERMINE SUBSURFACE CONDITIONS PRIOR TO BIDDING.
- 21. CONTRACTOR TO VERIFY LIMITS OF DISTURBANCE THROUGHOUT THE PROJECT. BRING DISCREPANCIES IMMEDIATELY TO THE ATTENTION OF THE CITY OF PHOENIX.
- 22. ALL WORK TO BE CONFINED WITHIN THE EXISTING LIMITS OF DISTURBANCE.
- 23. THE JOB SITE AT THE COMPLETION OF THE CONSTRUCTION SHALL BE CLEANED OF ANY DEBRIS RESULTING FROM CONSTRUCTION. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, GUTTERS AND PAVEMENT HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
- 24. SEPARATE INSPECTIONS ARE REQUIRED FOR THE BACK FLOW PREVENTER AND RELATED ELECTRICAL CONNECTIONS.
- 25. ALL EQUIPMENT AND MATERIALS NOT SHOWN OR SPECIFIED ON THE PLANS OR IN CITY SPECIFICATIONS BUT WHICH ARE REQUIRED TO COMPLETE THIS INSTALLATION SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OF THIS CONTRACT WORK SHALL BE CONSIDERED INCIDENTAL TO THE WORK INVOLVED.
- 26. THE PLANT PITS ARE TO BE INSPECTED BY CITY OF PHOENIX PRIOR TO PLANTING BY THE CONTRACTOR. THE CONTRACTOR SHALL REQUEST AN INSPECTION 48 HOURS IN ADVANCE
- 27. PLANT PIT DEPTH SHALL BE MEASURED ON THE LOW SIDE OF PLANT PIT WHEN ON A SLOPE.
- 28. ALL PLANTS SHALL BE CENTERED IN PLANT PITS.
- 29. FINAL PLANT MATERIAL PLACEMENT IN THE FIELD MAY BE REQUIRED TO BE ADJUSTED WHERE TREES OCCUR DIRECTLY UNDER OR OVER EXISTING UTILITIES.
- 30. THE PLANT PIT SOIL MIXTURE SHALL CONSIST OF EQUAL PARTS THAT ARE THOROUGHLY MIXED PRIOR TO BACK FILLING SHALL BE IN SIX INCH (6") LIFTS. EACH LIFT SHALL BE WATER SETTLED WITHOUT PUDDLING.
- 31. WHERE CALICHE IS ENCOUNTERED IN PLANT PITS, THE WIDTH OF THE PIT SHALL BE INCREASED BY ONE-THIRD (1/3) OVER SPECIFICATIONS. A LIQUID PENETRATION, "ALCLEACHEY" OR APPROVED EQUAL SHALL BE INCORPORATED FOR EACH PIT PER MANUFACTURER'S RECOMMENDATIONS. NO OVER EXCAVATION SHALL OCCUR WITHOUT APPROVAL OF CITY OF PHOENIX. IF CALICHE IS DISCOVERED TO BE PREVALENT IN THE AREA. CONTRACTOR SHALL IMMEDIATELY NOTIFY CITY OF PHOENIX TO DETERMINE ACTION AND ASSOCIATED COST. CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL DIRECTED BY CITY OF PHOENIX.
- 32. PLANT LOCATIONS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL STAKE TREE AND SHRUB LOCATIONS FOR 5 GALLON PLANTS AND LARGER. THE LOCATIONS ARE TO BE APPROVED BY CITY PRIOR TO INSTALLATION. THE STAKES SHALL BE MARKED ACCORDING TO SPECIFICATIONS.
- 33. THE CONTRACTOR SHALL PROVIDE GRANITE SAMPLES TO CITY PRIOR TO INSTALLATION. MINIMUM OF 1 TON OF EACH COLOR (COVERS AN AREA APPROXIMATELY 10'X10') LEVEL SAMPLE IN AREA. SAMPLES TO BE PLACED AT EACH RESPECTIVE PARK SITE OR AT LOCATION TO BE DETERMINED BY CITY OF PHOENIX.









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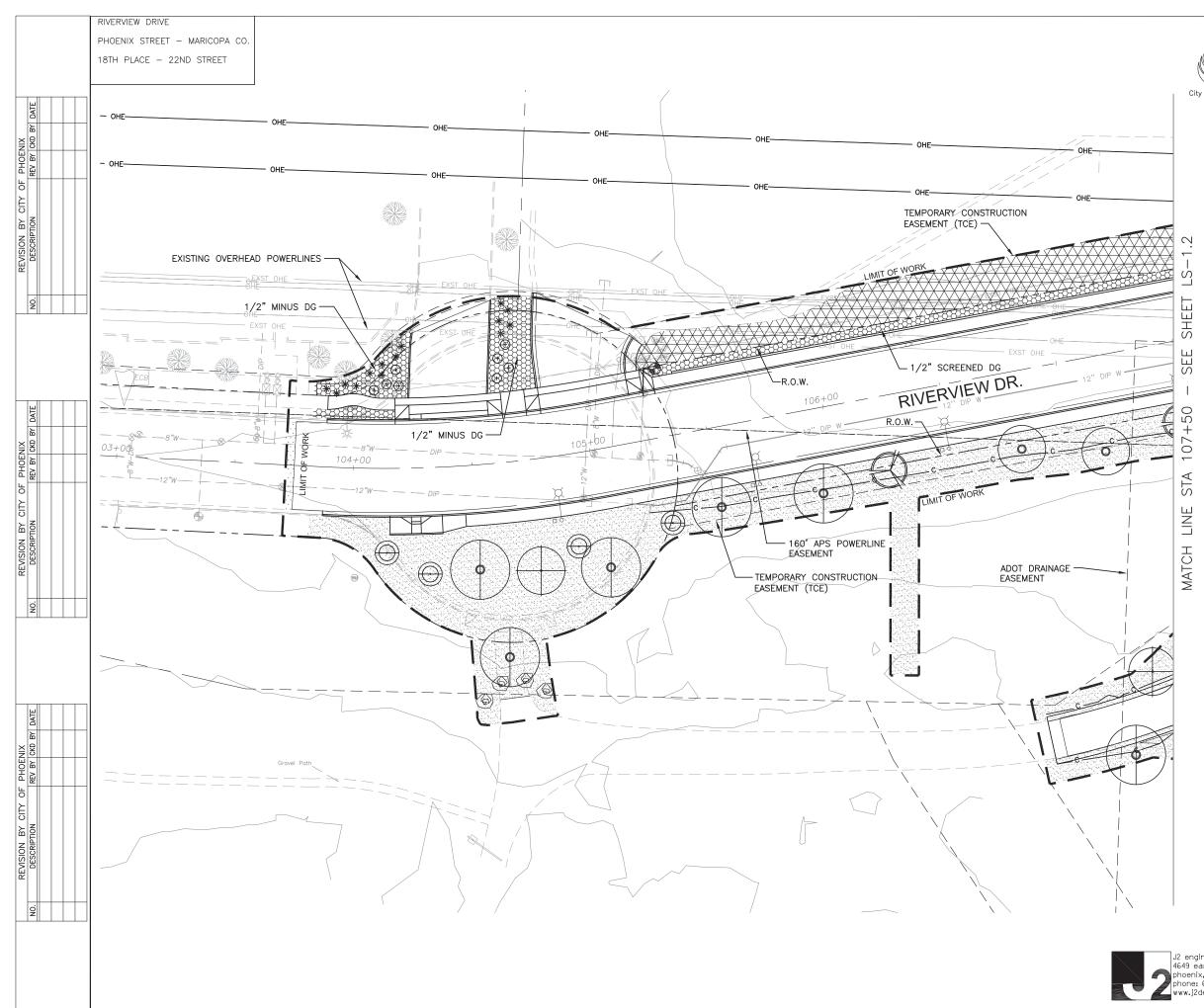
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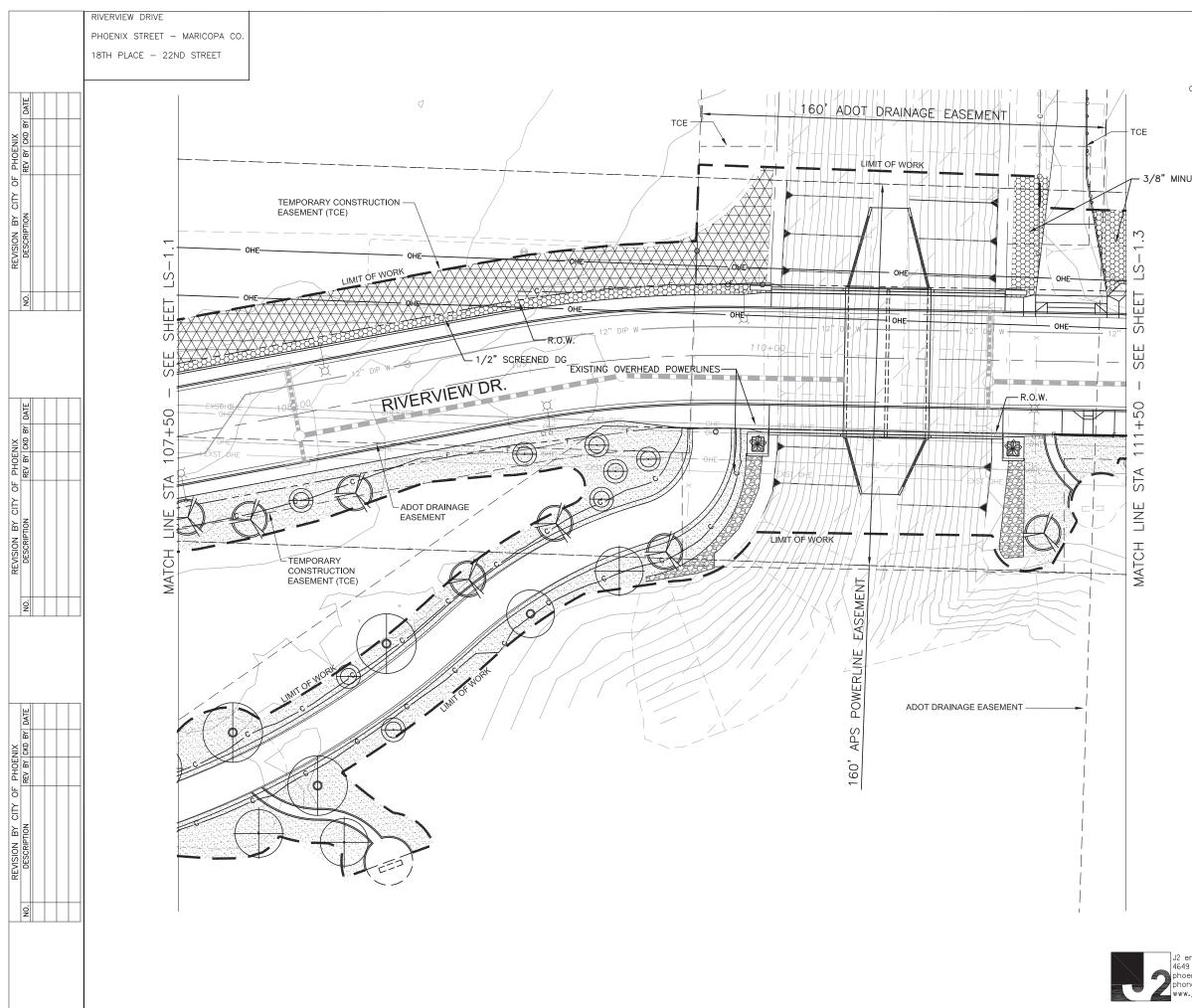
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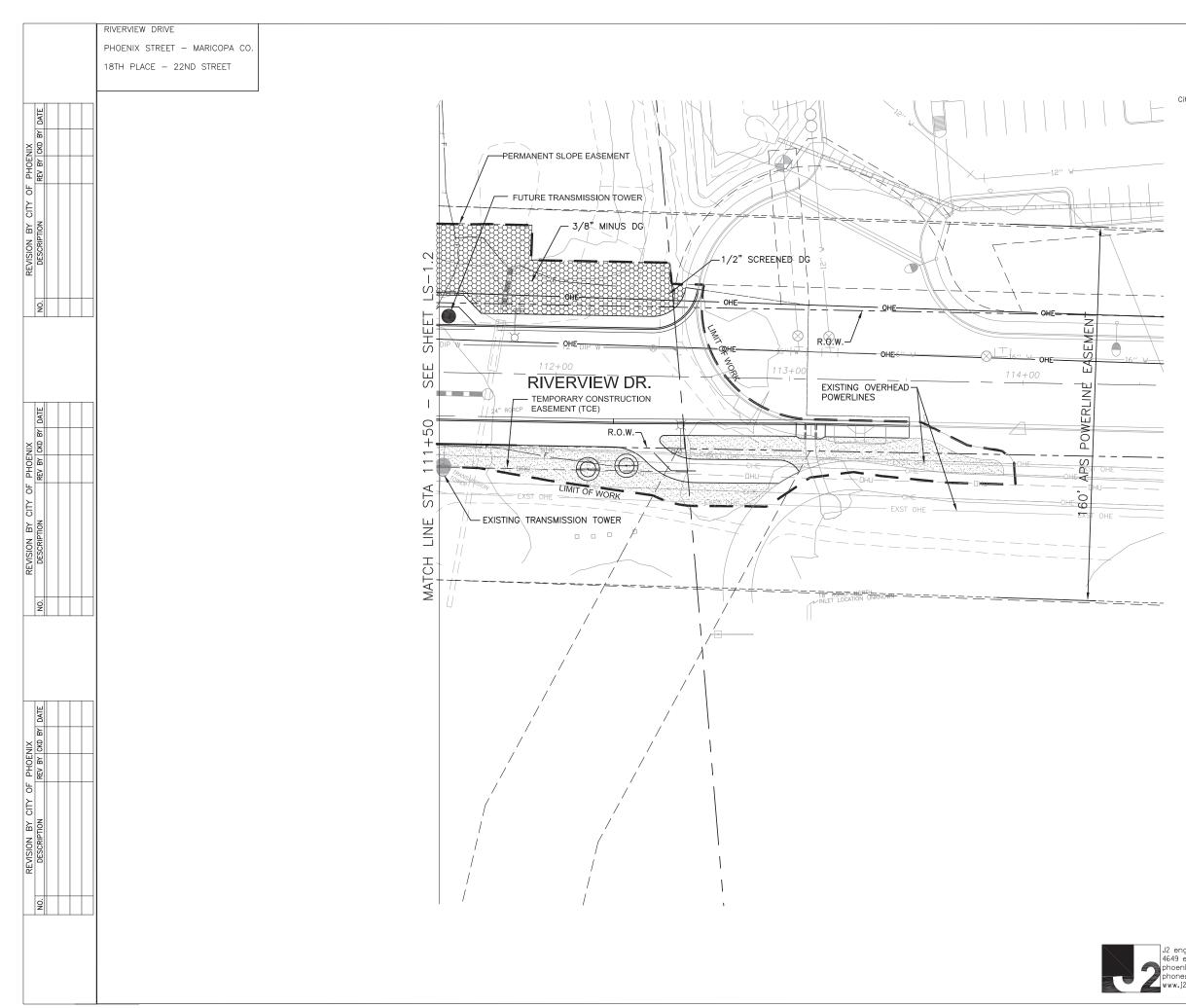
SCHEDULE:					
BOTANICAL NAME TREES:	COMMON NAME	<u>QTYS</u>	<u>SIZE</u>	REMARKS	
Acacia greggii	Catclaw Acacia	8	15 Gal.	Multi-Trunk	
	Desert Hackberry	14	15 Gal.	Multi-Trunk	
	Desert Willow	5	24" Box	Multi-Trunk	
	Screwbean Mesquite	3	24" Box	Multi-Trunk	
	Arizona Native Mesqu		15 Gal.	Standard	
ACCENTS/SHRUBS:					
-Agave bovicornuta	Cow's Tongue Agave	2	15 Gal.		
-Hesperaloe parviflora	Red Yucca	14	5 Gal.		
-Lantana camera 'Gold Mound'	Gold Mound Lantana	8	1 Gal.		
SEED MIX:					
Native Lower Sonoran Mesqu Hydroseed Mix- See Specific		26,109	SQ. FT.		
INERT MATERIAL:					
Decomposed Granite - 2" Thi Match Existing Size (per plan		42 CU.	YD.		
Stabilized Decomposed Gran 1/4" Minus Apache Brown	ite - 3" Thick	481 SC	). FT.		
Landscape Rip-Rap - 8" Thic 4"-8" River Rock over Filter F		798 SQ	). FT.		
Protect Existing Landscape A to Restore Existing Plants, D Irrigation Damaged on Privat Construction at Contractor's I Contains the Following Existi (5) Gold Lantana (5) Desert Spoon (44) Green Cloud Sage (27) Red Yucca (11) Mexican Bird of Paradis (6) Baja Ruellia	ecomposed Granite, & Property by Expense. The TCE ng Shrubs:				
S-13	2-28	3, THESE PLA	NS ARE FOR	Cill at least too full working before you begin account Delivery ou begin account Delivery ou begin account Delivery of the state for the state for the state for the state for the state for the state for the state for the state for the state for the state for the state for the state for the state for the stat	ion.
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				CH. & NOTES	
		CITY O	F PHOE	NIX, ARIZONA	, 
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ohone: 602.438.2221 vww.j2design.us		P DES: DO 3/16 DATE:03 E: 1" = 20'	C/SP CK: DC 3/16 DATE:03,	SHEET         TOTAL           716         NO:         SHEETS         E           40         96         96         100	AS BUILT



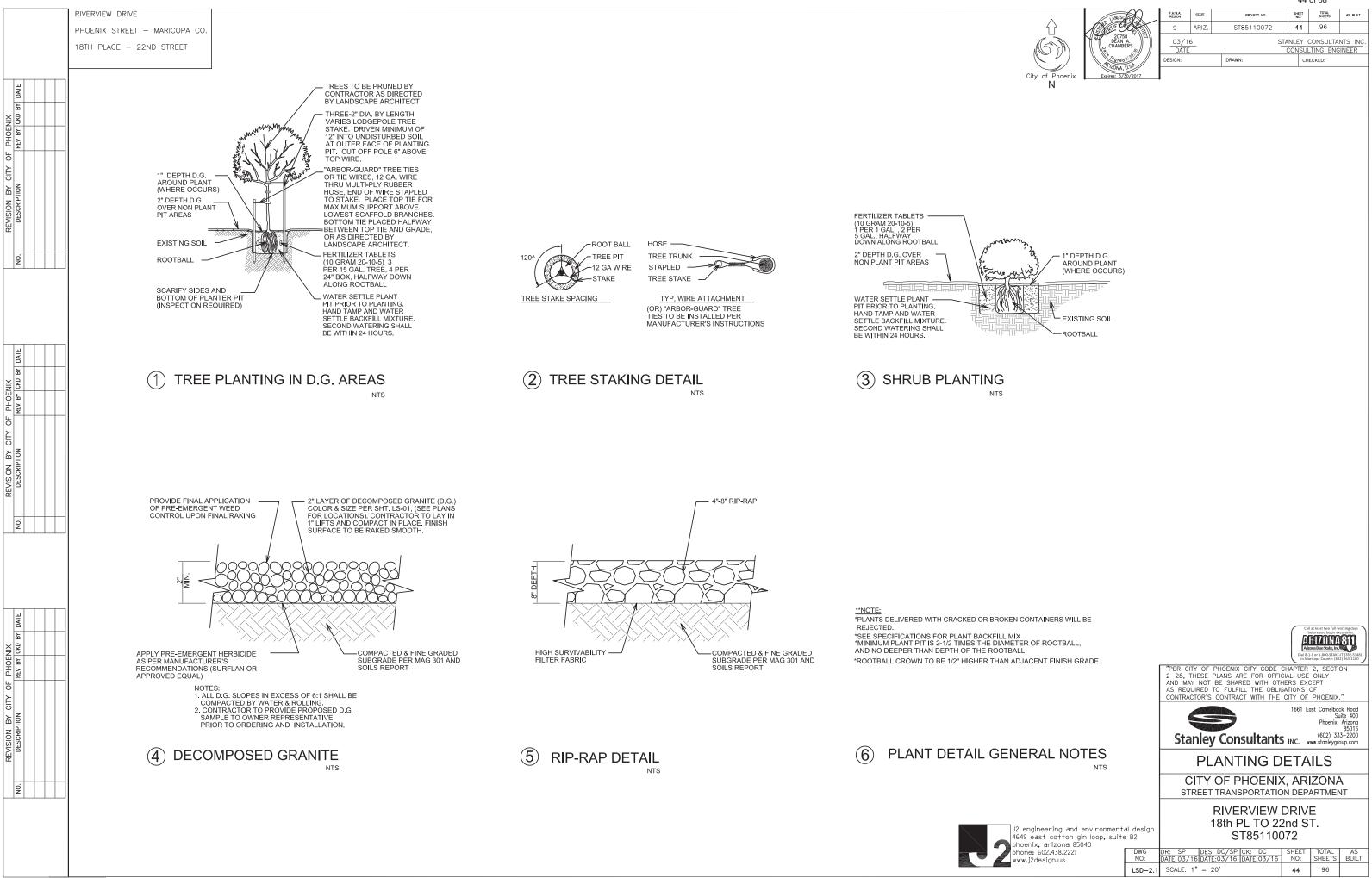
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enix, arizona 850 ne: 602.438.2221 v.j2design.us					K: DC ATE:03/16	SHEET NO: 41	TOTAL SHEETS 96	AS BUILT



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# RIVERVIEW DRIVE PHOENIX STREET - MARICOPA CO.

18TH PLACE - 22ND STREET

# **INSTALLATION GENERAL NOTES**

- 1. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- 2. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 3. 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, OR IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCREPANCIES BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
- 4. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
- A. IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR GRAPHIC CLARITY ONLY. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, UTILITIES, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES. INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
- B. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF CROSS TYPE FITTINGS IS NOT PERMITTED.
- 5. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT
  - A. TWO OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVE.
  - B. TWO OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.
  - C. TWO RAIN BIRD 44K QUICK COUPLING KEYS, EACH WITH ATTACHED RAIN BIRD SH-1 SWIVEL HOSE ELL AND NIBCO T29-1 WATER CONTROL VALVE FOR OPERATION OF THE QUICK COUPLING VALVES SHOWN ON THE DRAWINGS.
- 6. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE TO BE INSTALLED 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 REQUIRES HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. SLEEVE AND CONDUCT SIZES SHALL BE A MINIMUM OF TWICE THE AGGREGATE DIAMETER OF ALL PIPE AND WIRE CONTAINED WITHIN SLEEVE OR CONDUCT PIPF
- 7. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES
- 8. WITH REGARD TO PIPE SIZING, THE FOLLOWING SHOULD BE NOTED: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO 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.
- 9. INSTALL #12-1 AWG UF/UL 600 VOLT DIRECT-BURY WIRE FOR ALL COMMON WIRE. COLOR CODE WIRES AS DIRECTED BY CITY OF PHOENIX REPRESENTATIVE.

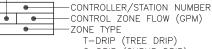
# **IRRIGATION QUANTITIES**

SUB-MAINLINE (1" SCH 40 PVC)	59 LF
DRIP LATERAL LINE $(\frac{3}{4}"$ SCH 40 PVC)	1,695 LF
ELECTRIC REMOTE CONTROL VALVE ASSEMBLY (1")	2 EA.
PRESSURE REGULATOR & BASKET FILTER (1")	2 EA.
GATE VALVE (1")	1 EA.
SLEEVE (4")	135 LF

# LEGEND

si	LEEVING: SCH 40 PVC PIPE (4-INCH SIZE UNLESS OTHERWISE
S	UB-MAINLINE PIPE: CLASS 200 PVC (2-INCH AND 2.5-INCH) SCH 40 PVC (1-INCH AND 1.5-INCH)
— · — · — EX	XISTING 2" SCH 40 RIO SALADO SUB-MAINLINE
—— - —— TF	REE EMITTER LATERAL PIPE: SCH 40 PVC (3/4–INCH SIZE UNLESS OTHERWISE INDICATED) SEE EMITTER PLACEMENT DETAIL FOR EMITTER LATERAL PIPE SIZING AND INSTALLATION
SI	HRUB EMITTER LATERAL PIPE: SCH 40 PVC (3/4–INCH SIZE UNLESS OTHERWISE INDICATED) SEE EMITTER PLACEMENT DETAIL FOR EMITTER LATERAL PIPE SIZING AND INSTALLATION
- · - · - · - G,	ABION PLANTER EMITTER LATERAL PIPE: SCH 40 PVC (3/4–INCH SIZE UNLESS OTHERWISE INDICATED) SEE EMITTER PLACEMENT DETAIL FOR EMITTER LATERAL PIPE SIZING AND INSTALLATION
U -	NCONNECTED PIPE CROSSING
	OLATION GATE VALVE ASSEMBLY - NIBCO T-113-K
	EMOTE CONTROL VALVE ASSEMBLY FOR DRIP LATERALS: RAIN BIRD 100-PEB
PI PI PI	RESSURE REGULATOR & WYE FILTER ASSEMBLY: LASTIC BODY, 25–75 PSI/ 30 MESH SCREEN – 1" SIZE
М	ULTI-PORT EMITTER – BOWSMITH ML-210 SEE EMITTER SCHEDULE
SI	NGLE-PORT EMITTER – BOWSMITH SL-210 SEE EMITTER SCHEDULE
⇔ Fl	LUSH CAP ASSEMBLY: SEE DETAIL

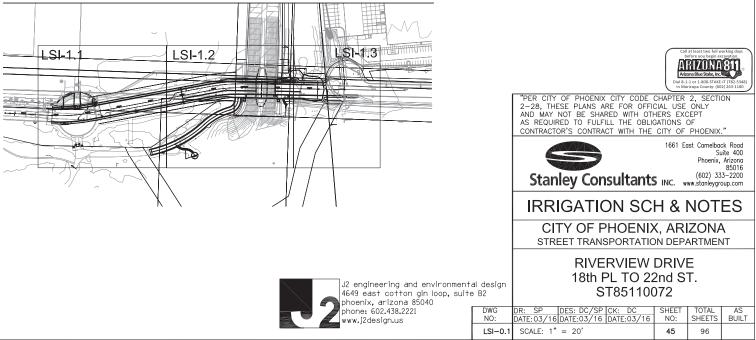


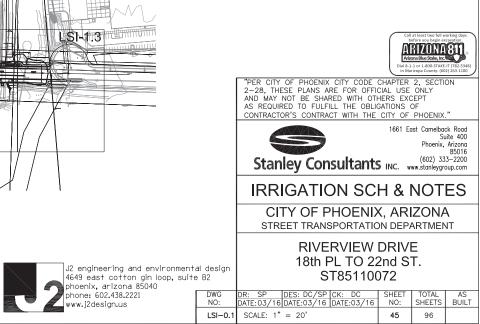


S-DRIP (SHRUB DRIP)

### P-DRIP (PLANTER DRIP)

# **KEY MAP**

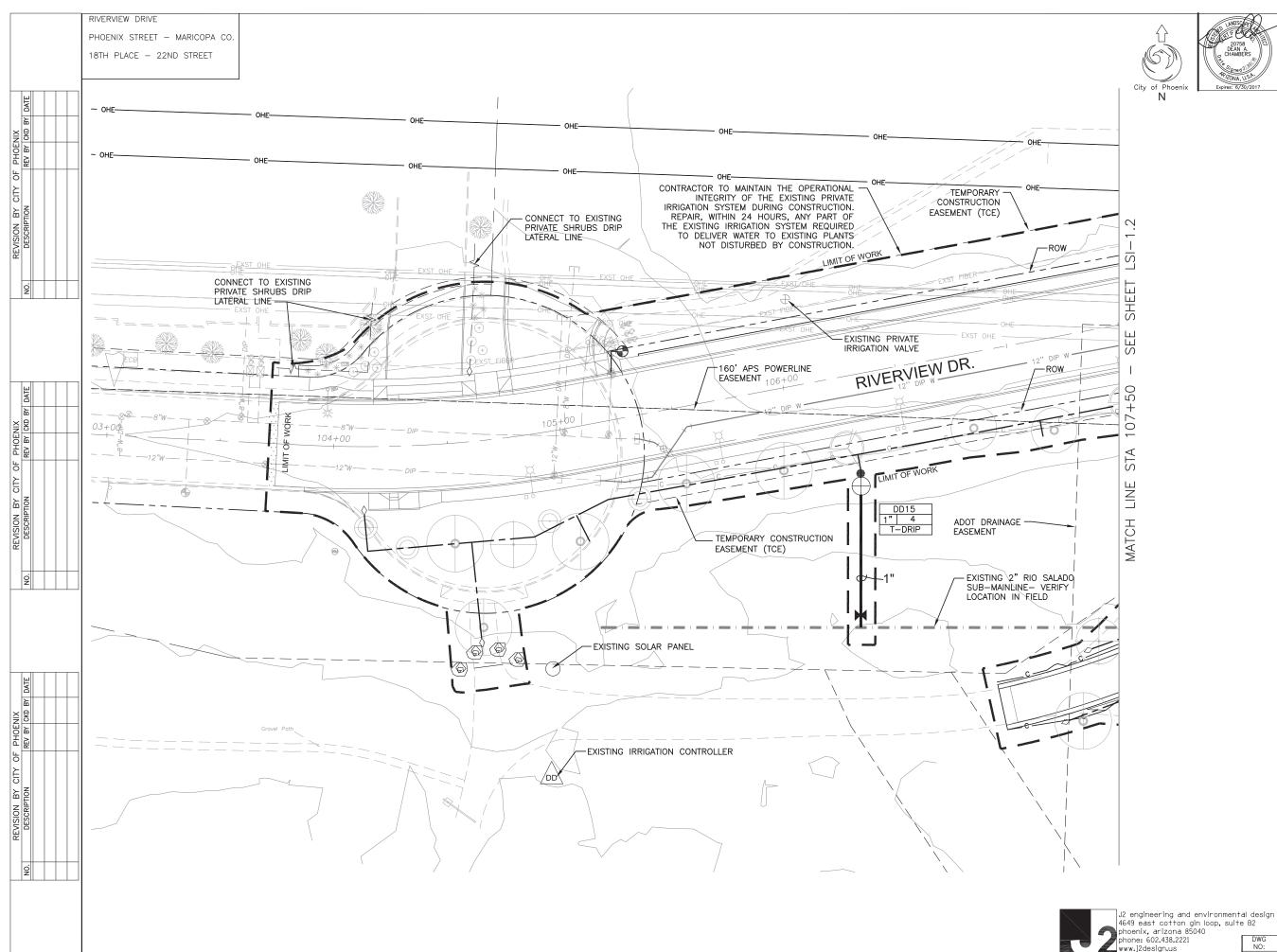




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# **IRRIGATION LEGEND**

SYM.	DESCRIPTION				
$\triangle$	IRRIGATION CONTROLLER				
	GATE VALVE				
$\oplus$	REMOTE CONTROL VALVE ASSEMBLY				
	DRIP FILTER/REGULATOR ASSEMBLY				
$\diamond$	FLUSH END CAP ASSEMBLY				
N/S	EMITTER-MULTI-OUTLET ASSEMBLY				
N/S	EMITTER-SINGLE-OUTLET ASSEMBLY				
Ø	QUICK COUPLER ASSEMBLY				
PIPI	ELEGEND				
	RRIGATION MAINLINE PIPE				
1000 ( 1000 ( 10	EXISTING MAINLINE PIPE				
	-TREE DRIP LATERAL				
	-SHRUB/ACCENT/GROUNDCOVER LATERAL				
	- GABION PLANTER LATERAL				
SLEEVE PIPE					

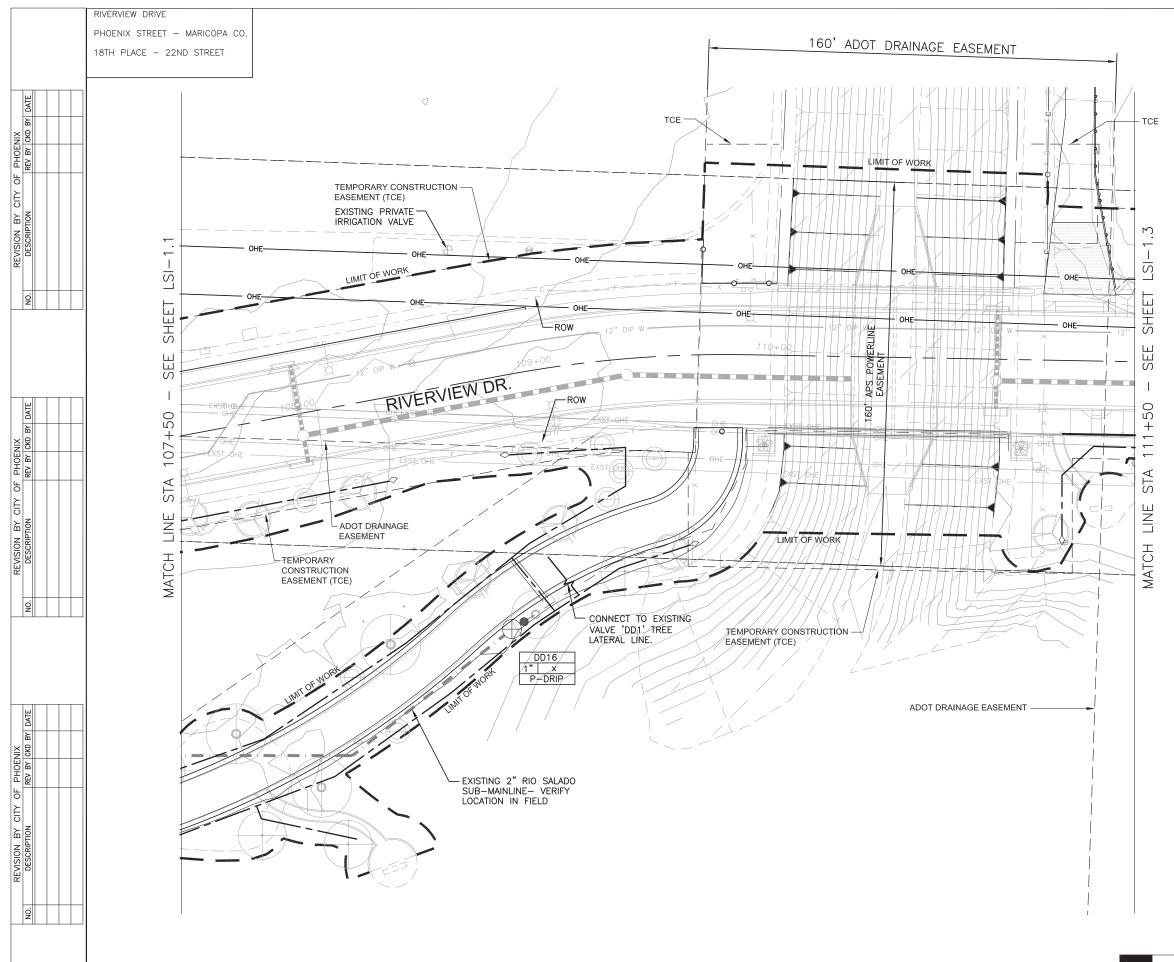
# VALVE KEY LEGEND

VALVE SIZE
CONTROLLER/STATION NUMBER     CONTROL ZONE FLOW (GPM)     ZONE TYPE
T-DRIP (TREE DRIP)

P-DRIP (PLANTER DRIP) NOTE: ALL SLEEVES TO BE 4" PVC UNLESS OTHERWISE NOTED



DWG NO:



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IRR	IGATION LEGEND
	DESCRIPTION
$\bigtriangleup$	IRRIGATION CONTROLLER
	GATE VALVE
$\oplus$	REMOTE CONTROL VALVE ASSEMBLY
	DRIP FILTER/REGULATOR ASSEMBLY
$\diamond$	FLUSH END CAP ASSEMBLY
N/S	EMITTER-MULTI-OUTLET ASSEMBLY
N/S	EMITTER-SINGLE-OUTLET ASSEMBLY
Ø	QUICK COUPLER ASSEMBLY
PIPE	ELEGEND
	RRIGATION MAINLINE PIPE
-	- EXISTING MAINLINE PIPE
	-TREE DRIP LATERAL
	-SHRUB/ACCENT/GROUNDCOVER LATERAL
	- GABION PLANTER LATERAL
	SLEEVE PIPE
VAL	VE KEY LEGEND

• • • •	CONTROLLER/STATION NUMBER CONTROL ZONE FLOW (GPM) ZONE TYPE T-DRIP (TREE DRIP) S-DRIP (SHRUB DRIP) P-DRIP (PLANTER DRIP)

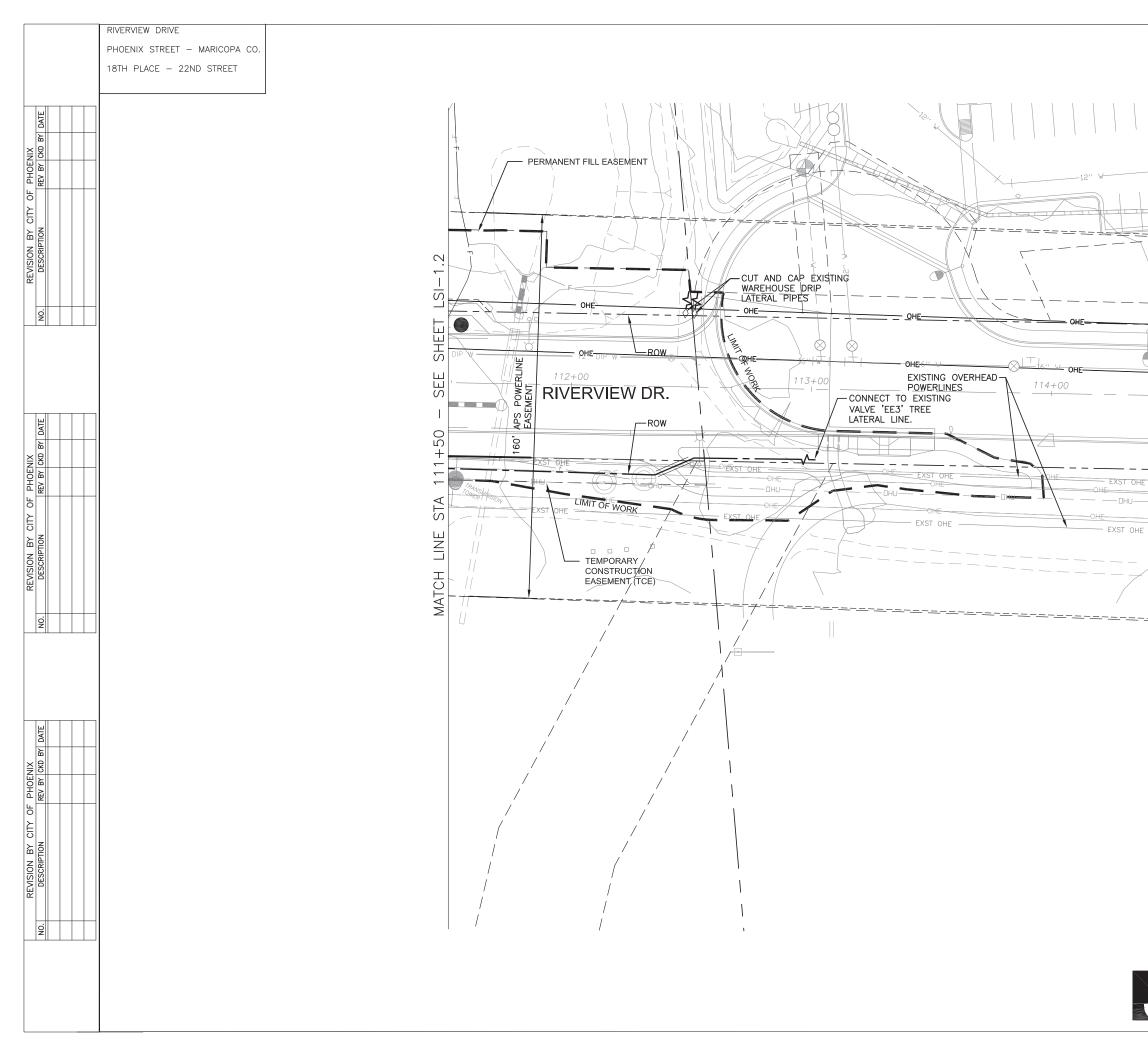
NOTE:

ALL SLEEVES TO BE 4" PVC UNLESS OTHERWISE NOTED



J2 engineering and environmental design 4649 east cotton gin loop, suite B2 phoenix, arizona 85040 none: 602.438.2221 DWG NO:

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# IRRIGATION LEGEND

SYM.	DESCRIPTION
$\triangle$	IRRIGATION CONTROLLER
	GATE VALVE
$\oplus$	REMOTE CONTROL VALVE ASSEMBLY
۲	DRIP FILTER/REGULATOR ASSEMBLY
$\diamond$	FLUSH END CAP ASSEMBLY
N/S	EMITTER-MULTI-OUTLET ASSEMBLY
N/S	EMITTER-SINGLE-OUTLET ASSEMBLY
Ø	QUICK COUPLER ASSEMBLY

# PIPE LEGEND

----SHRUB/ACCENT/GROUNDCOVER LATERAL

- - - GABION PLANTER LATERAL

SLEEVE PIPE

# VALVE KEY LEGEND

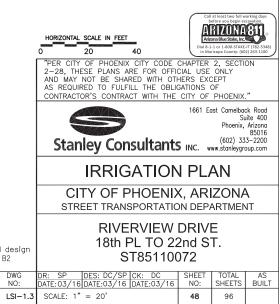
-VALVE SIZE

Г		•	CONTROLLER/STATION NUMBER
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	•		ZONE TYPE
		T-DRIP (TREE DRIP)	

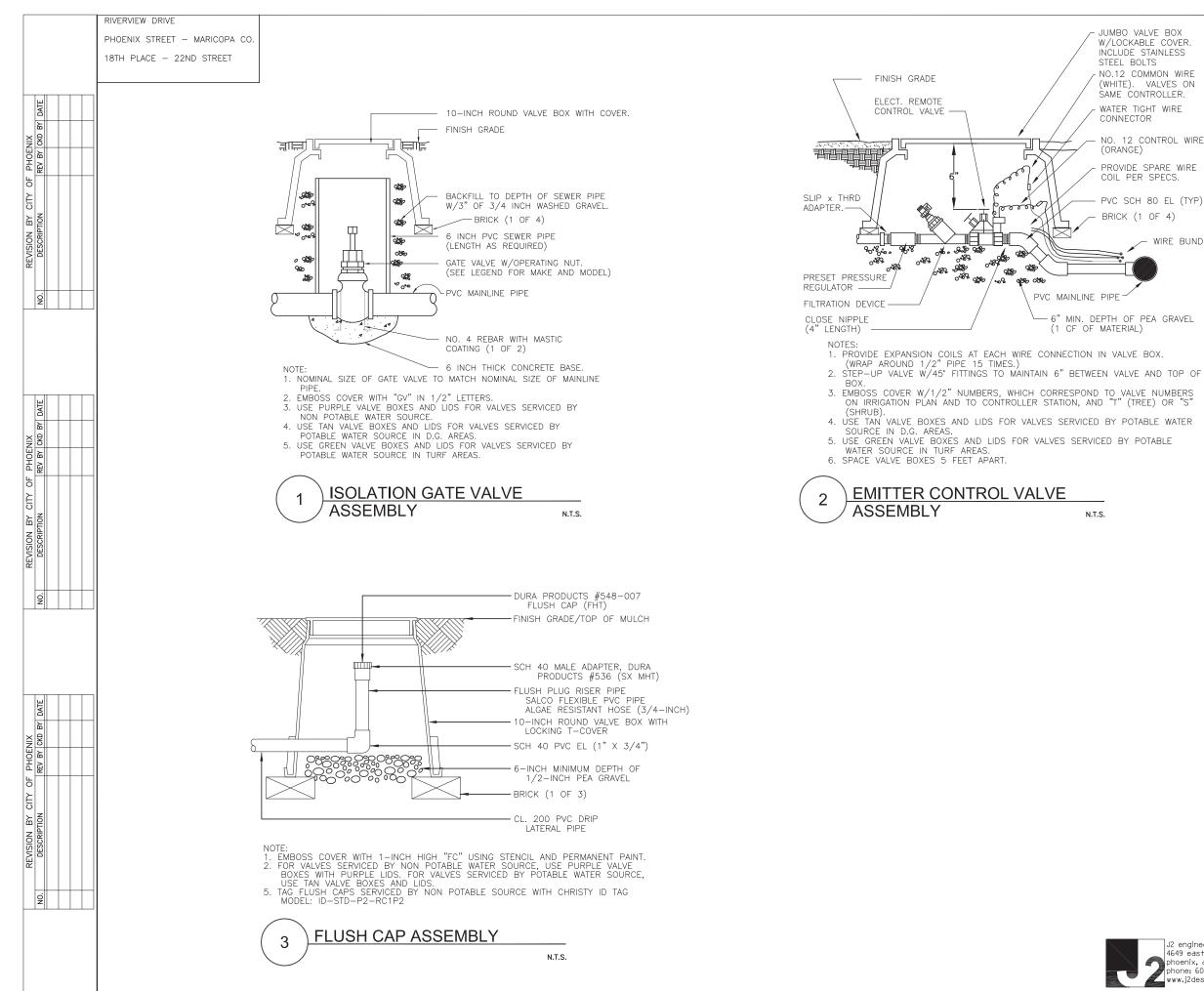
T-DRIP (TREE DRIP) S-DRIP (SHRUB DRIP) P-DRIP (PLANTER DRIP)

NOTE:

ALL SLEEVES TO BE 4" PVC UNLESS OTHERWISE NOTED



J2 engineering and environmental design 4649 east cotton gin loop, suite B2 phoenix, arizona 85040 hone: 602.438.2221 DWG NO:



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NO.12 COMMON WIRE (WHITE). VALVES ON SAME CONTROLLER. WATER TIGHT WIRE



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NO. 12 CONTROL WIRE

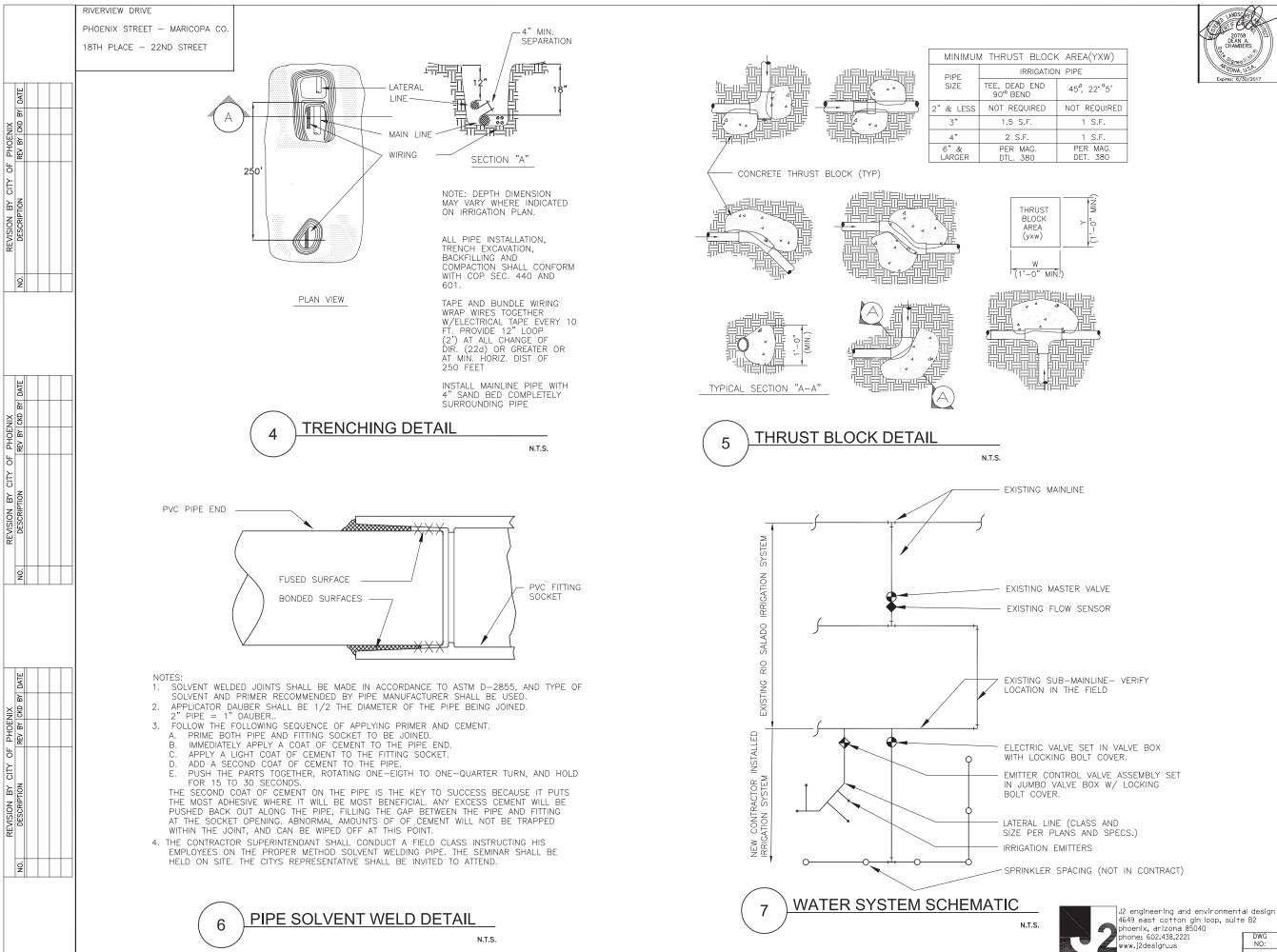
PROVIDE SPARE WIRE

PVC SCH 80 EL (TYP)

WIRE BUNDLE



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Y	Call at least two full working days before you begin encaption ARX2004 Bit Solder, Feb. Dol 4-1-0 r-1-200-STAKET (72:5-548) in Maricapa Contry (62) 245-1100
BOX	"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."
BLY SET ING	1661 East Camelback Road Suite 400 Phoenix, Arizona 85016 (602) 333-2200 Stanley Consultants INC. www.stanleygroup.com
	IRRIGATION DETAILS
ONTRACT)	CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT
	RIVERVIEW DRIVE

20758 DEAN A. CHAMBERS	
Provide Signed 3 (1)	
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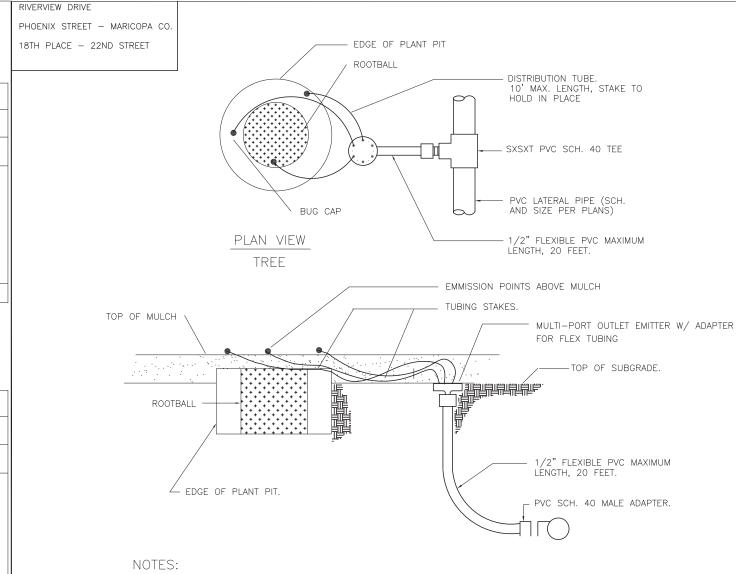
18th PL TO 22nd ST.

ST85110072

DATE:03/16 DATE:03/16 DATE:03/16

NO:

LSID-2.2 SCALE: 1" = 20'





REFER TO PLANTING PLAN, SPECIFICATIONS, AND PLANT EMITTER SCHEDULE FOR PLANTING REQUIREMENTS.



	BOTANICAL NAME	FLOW PER OUTLET	QUANTITY AND TYPE OF EMITTER	NUMBER OF OPEN OUTLETS / EMITTERS	TOTAL FLOW/ PLANT (GPH) UNLESS SPECIFIED
TREES:	ACACIA GREGGII CELTIS PALLIDA CHILOPSIS LINEARIS PROSOPIS PUBESCENS PROSOPIS VELUTINA	1 GPM 1 GPM 1 GPM 1 GPM 1 GPM	2 MULTI-OUTLET 2 MULTI-OUTLET 2 MULTI-OUTLET 2 MULTI-OUTLET 2 MULTI-OUTLET	6 4 4 6 6	12 8 8 12 12
ACCENT / G.C.	AGAVE BOVICORNUTA HESPERALOE PARVIFLORA LANTANA 'GOLD MOUND	1 GPM 1 GPM 1 GPM	1 SINGLE-OUTLET 1 SINGLE-OUTLET 1 SINGLE-OUTLET	1 1 1	1 1 1

NOTES:

DESCRIPTION BY CITY OF PHOENIX DESCRIPTION REV BY CKD BY DATE

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REVISION BY CITY OF DESCRIPTION

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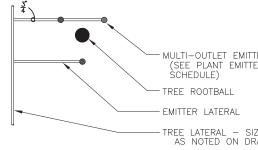
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1. TOTAL FLOW REQUIREMENT PER TREE ASSUMES DAILY IRRIGATION CYCLE OF

FOUR HOURS DURING PEAK SEASON FOR MATURE PLANT MATERIAL.



# PLAN VIEW MULTI-OUTLET EMITTER

TREES (TYPICAL) SEE PLANT EMITTER SCHEDULE DETAIL

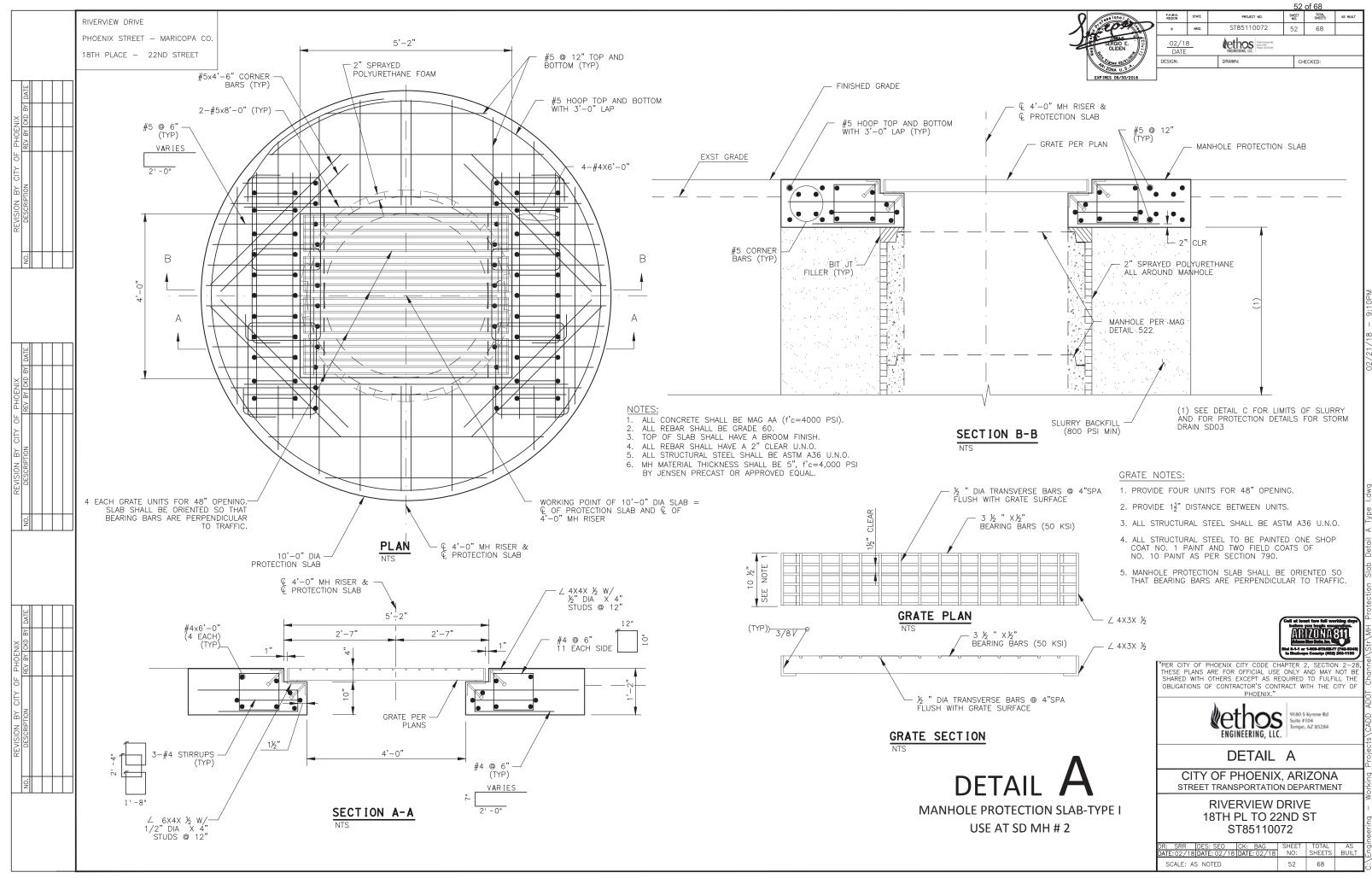
- NOTES:
- 1.
- MULTI-OUTLET EMITTERS ARE TO BE EQUALLY SF TO DIRECT WATER FLOW AROUND THE ROOTBALL NUMBER OF OPENINGS REQUIRED IS BASED ON (SEE PLANT EMITTER SCHEDULE) 2.

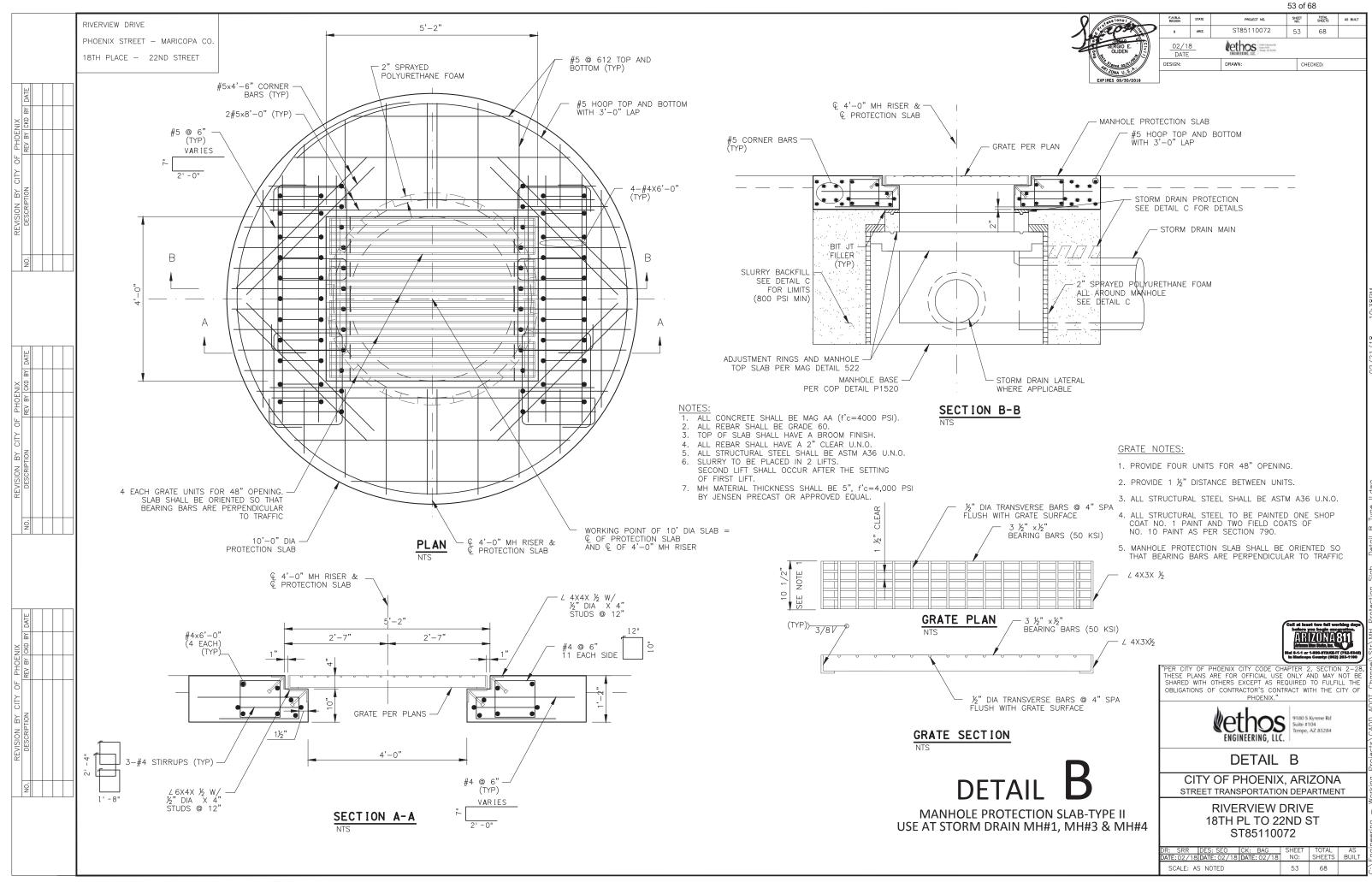


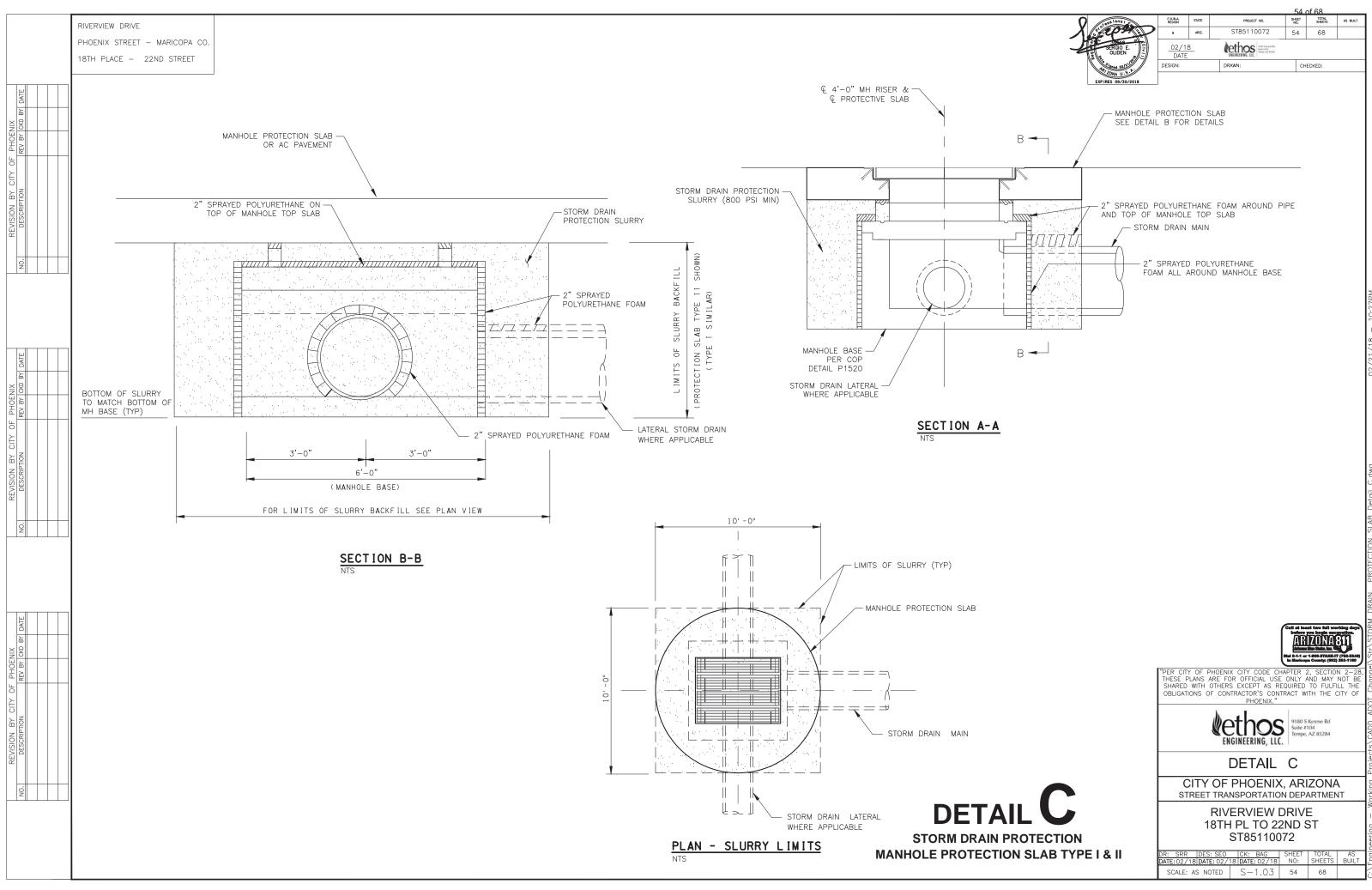


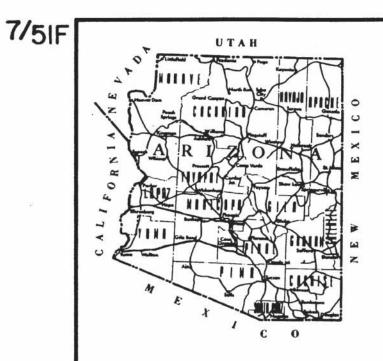


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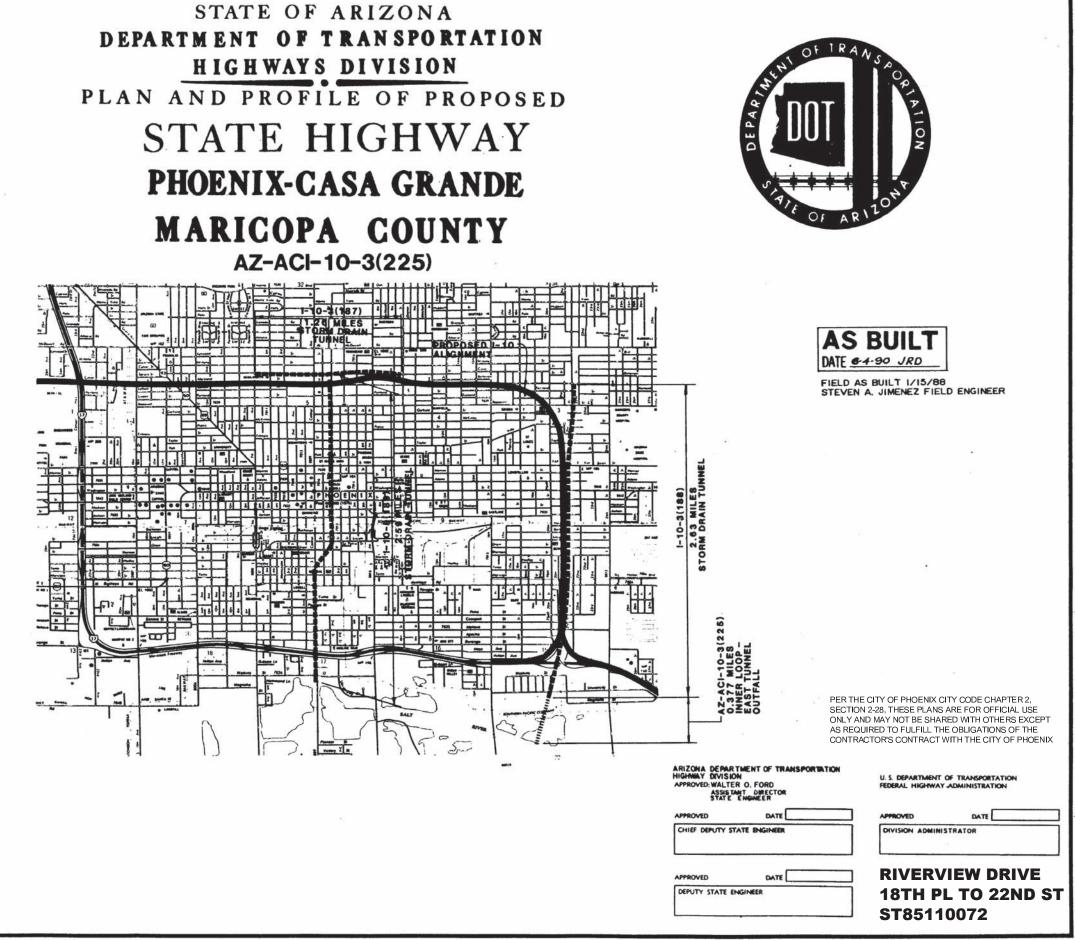








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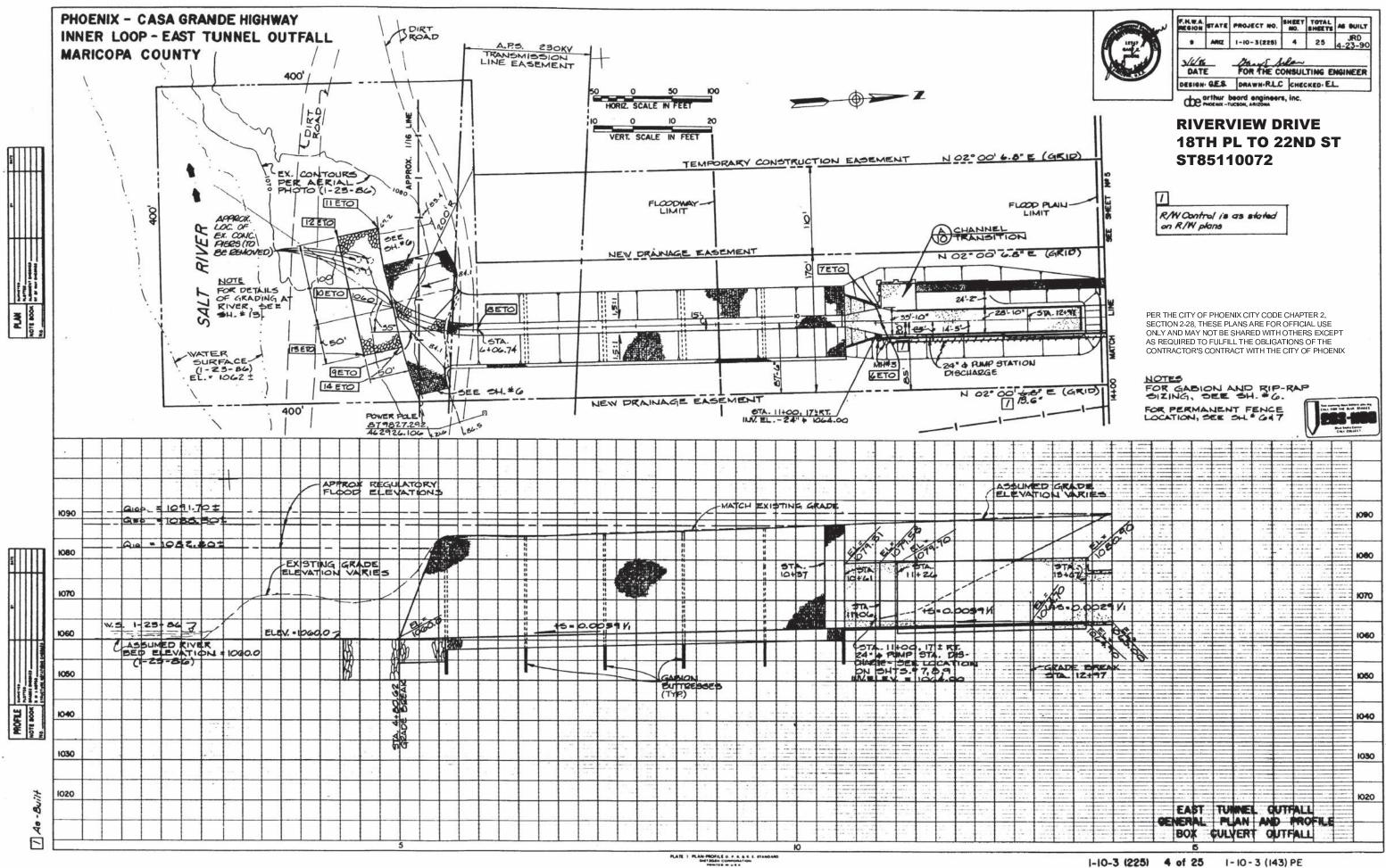


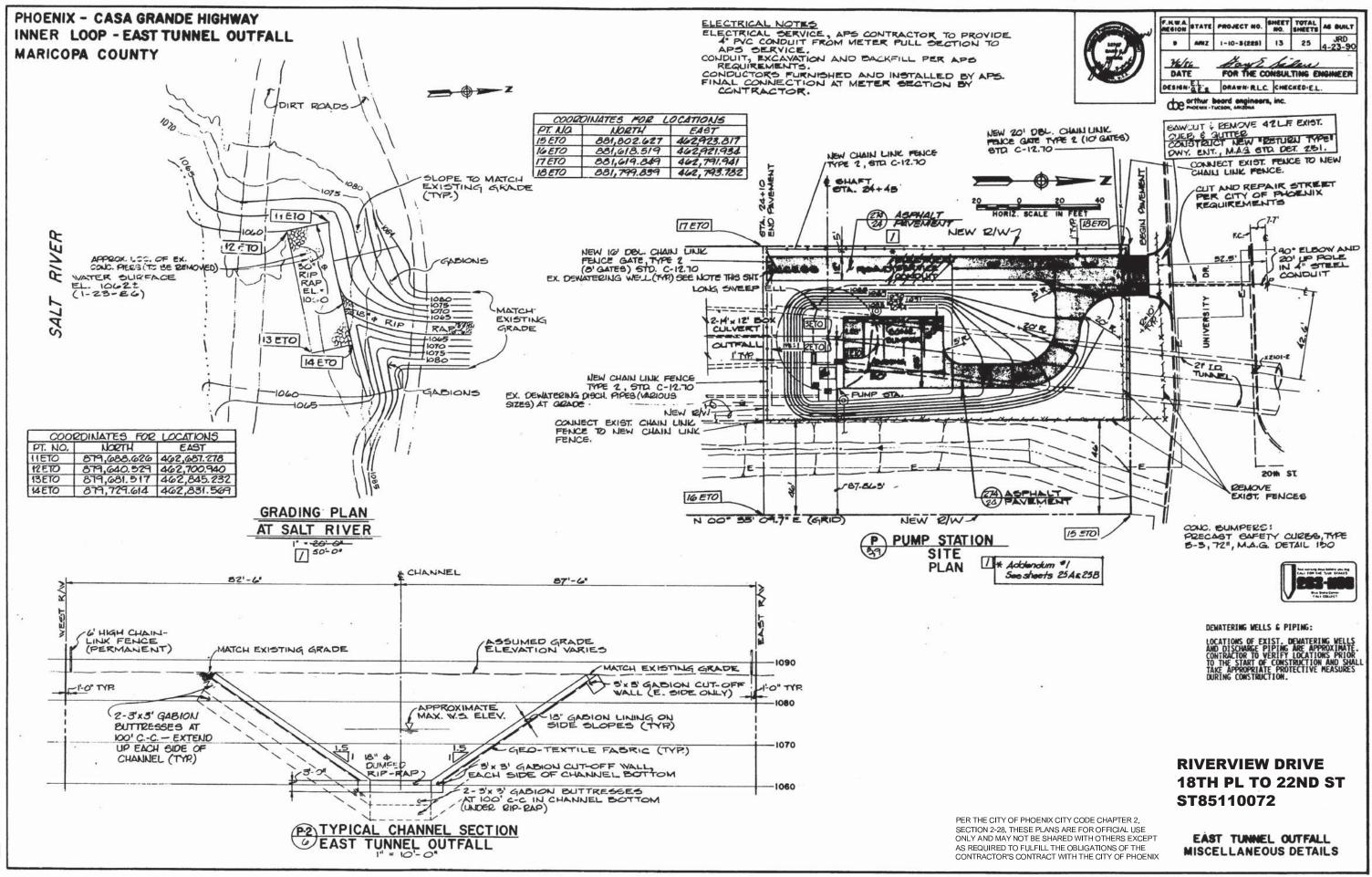
NOTE: FOR ADDITIONAL CONSTRUCTION PROJECTS, SEE FACE SHEET NUMBERS 7/51C, D, 8 E.

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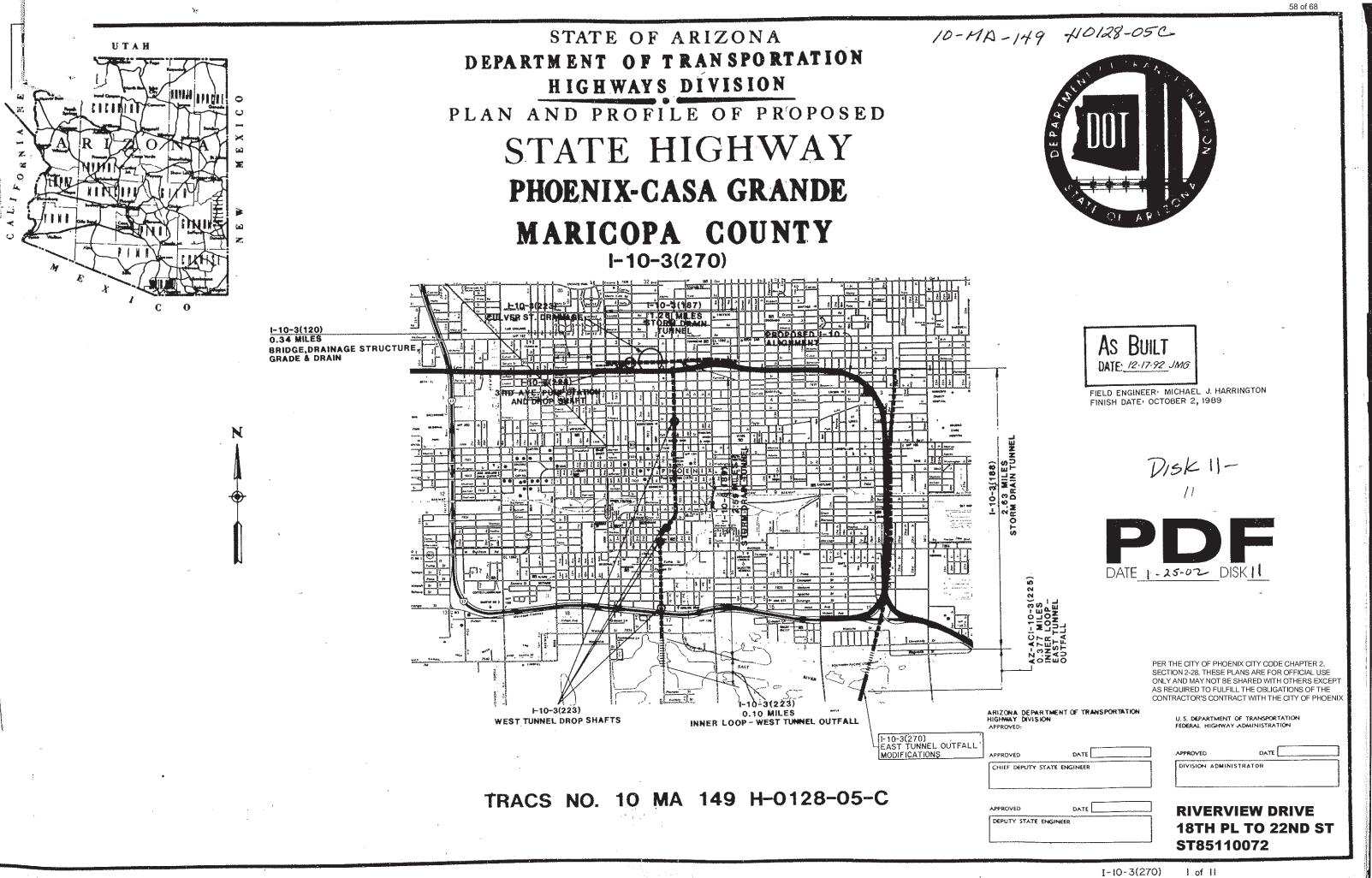


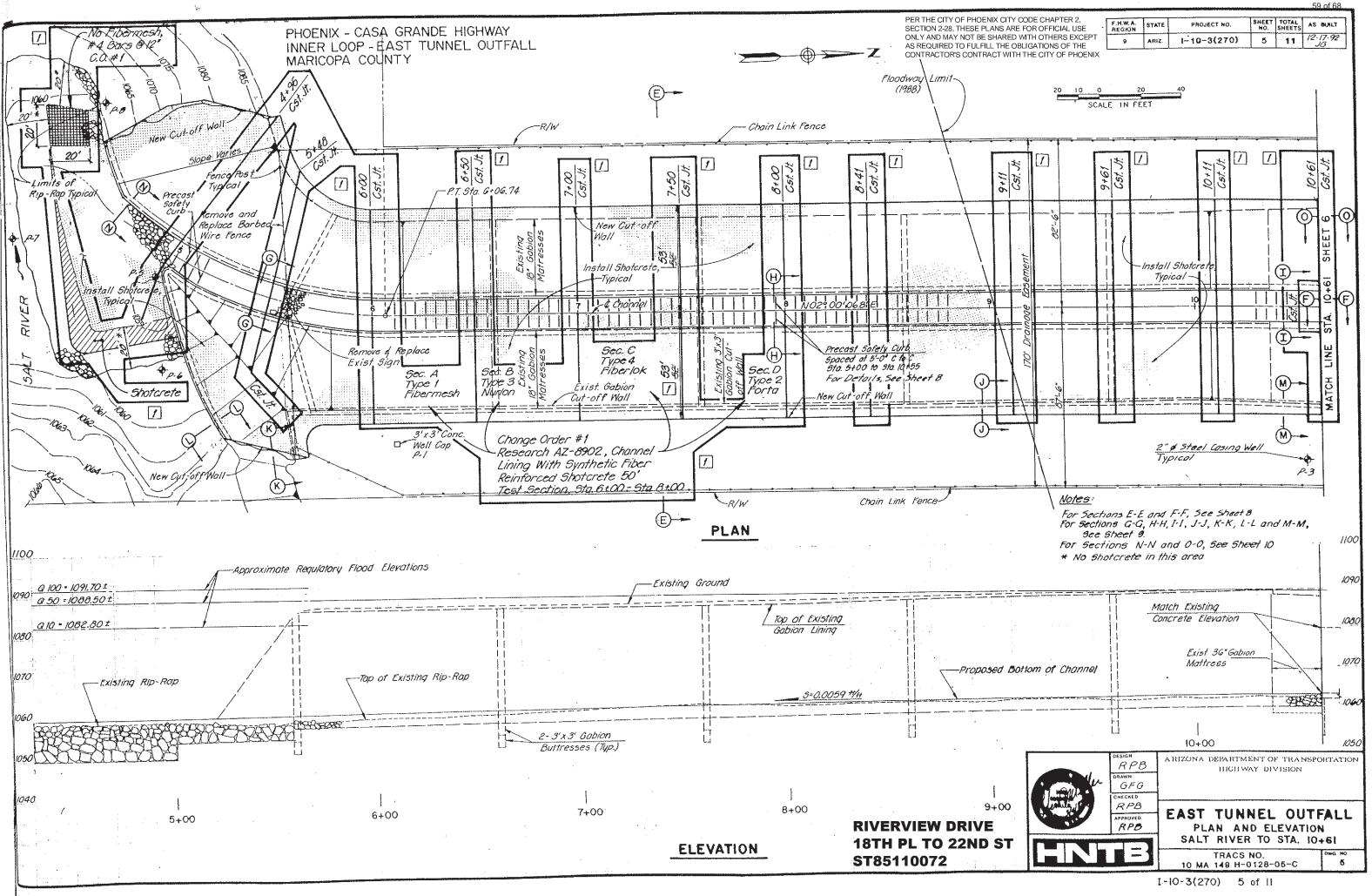


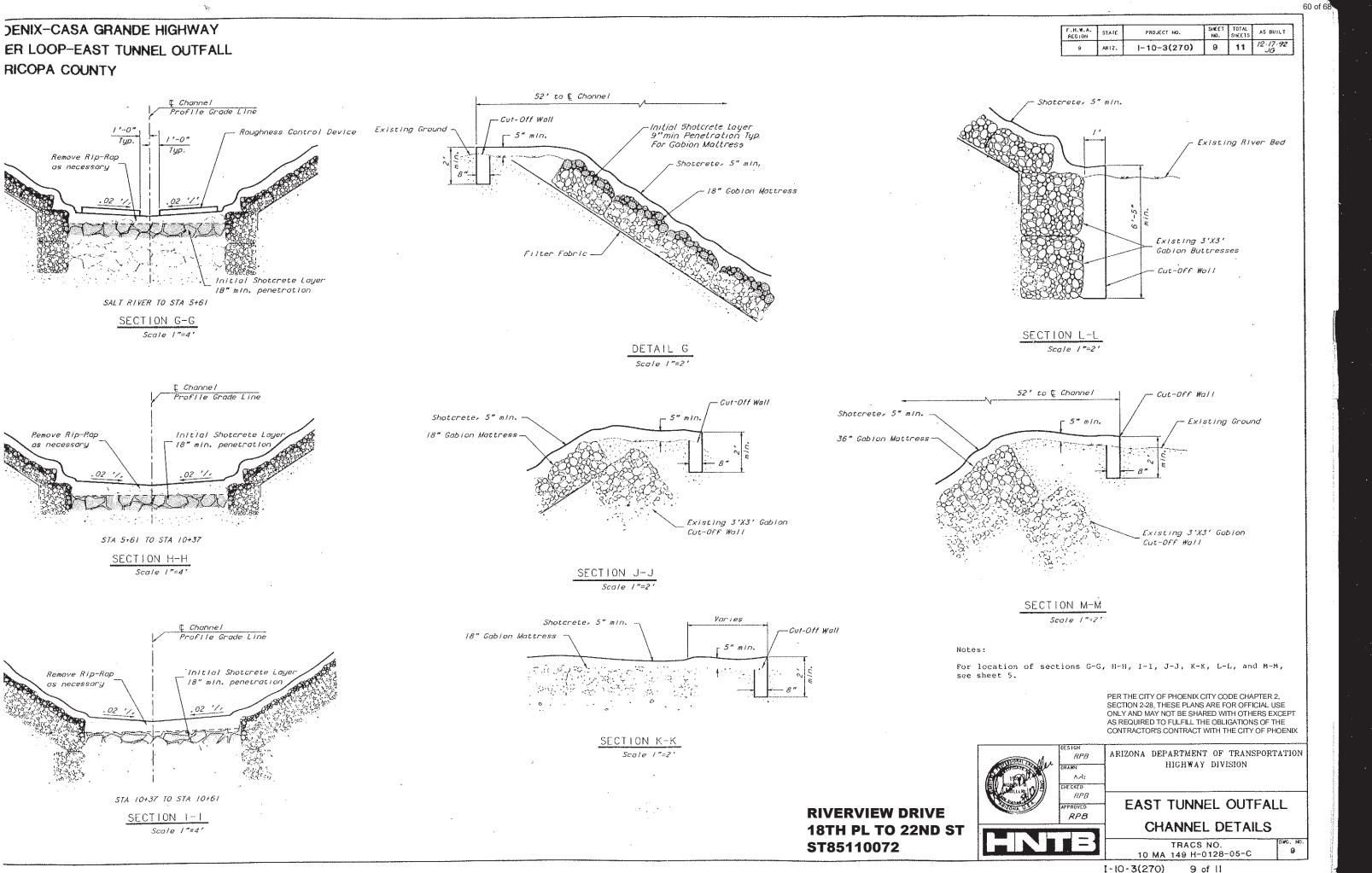


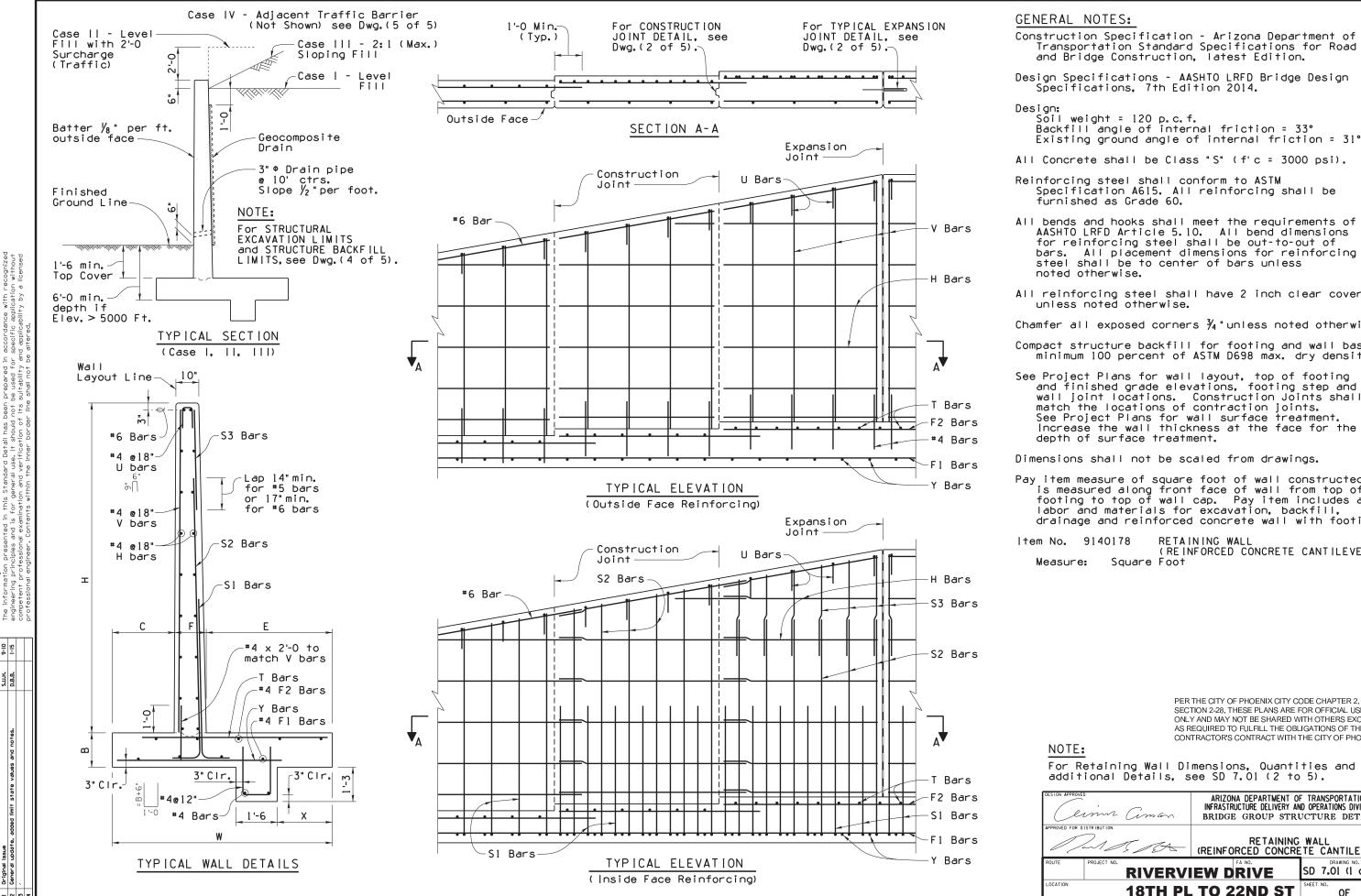
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DATE 9-10 1-15 MADE E S.U.H. D.B.B. sdded limit state values and notes. Issue update

Design Specifications - AASHTO LRFD Bridge Design Specifications, 7th Edition 2014. Soil weight = 120 p.c.f. Backfill angle of internal friction = 33° Existing ground angle of internal friction = 31° All Concrete shall be Class "S" (f'c = 3000 psi). Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All bends and hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise. All reinforcing steel shall have 2 inch clear cover unless noted otherwise. Chamfer all exposed corners  $\frac{3}{4}$  "unless noted otherwise. Compact structure backfill for footing and wall base minimum 100 percent of ASTM D698 max. dry density. See Project Plans for wall layout, top of footing and finished grade elevations, footing step and wall joint locations. Construction Joints shall match the locations of contraction joints. See Project Plans for wall surface treatment. Increase the wall thickness at the face for the depth of surface treatment. Dimensions shall not be scaled from drawings. Pay item measure of square foot of wall constructed is measured along front face of wall from top of footing to top of wall cap. Pay item includes all labor and materials for excavation, backfill, drainage and reinforced concrete wall with footing. ltem No. 9140178 RETAINING WALL (REINFORCED CONCRETE CANTILEVER) Measure: Square Foot PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX NOTE: For Retaining Wall Dimensions, Quantities and additional Details, see SD 7.01 (2 to 5). ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION erma Ciman BRIDGE GROUP STRUCTURE DETAIL RETAINING WALL (REINFORCED CONCRETE CANTILEVER) 5 A SD 7.01 (1 of 5) **RIVERVIEW DRIVE** CATION **18TH PL TO 22ND ST** OF ST85110072 61 of 68

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# STATE NOTES:

u-SERV	=	Total equivalent uniform vertical bearing stress to be used only for the evaluation of settlement based on the
u-SERV	=	Service   Limit State as per ADOT SF-1. Net equivalent uniform vertical bearing stress to be used only for the evaluation of settlement based on the
RV	=	Service   Limit State as per ADOT SF-1. Effective footing width to be used only for the evaluation of settlement based on the Service   Limit State as per ADOT SF-1.
u-STR	=	Total equivalent uniform vertical bearing stress to be used only for the evaluation of bearing resistance based on the Strength   Limit State as per ADOT SF-1.
u-STR	=	
R	=	Effective footing width to be used only for the evaluation of bearing resistance based on the Strength 1

Limit State as per ADOT SF-1.

her applicable limit states, perform project ic-analysis using the procedures in ADOT SF-1. F-1 (Materials Group memorandum) is found at als Group website.

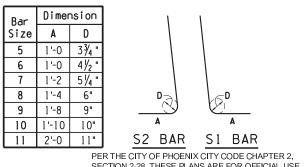
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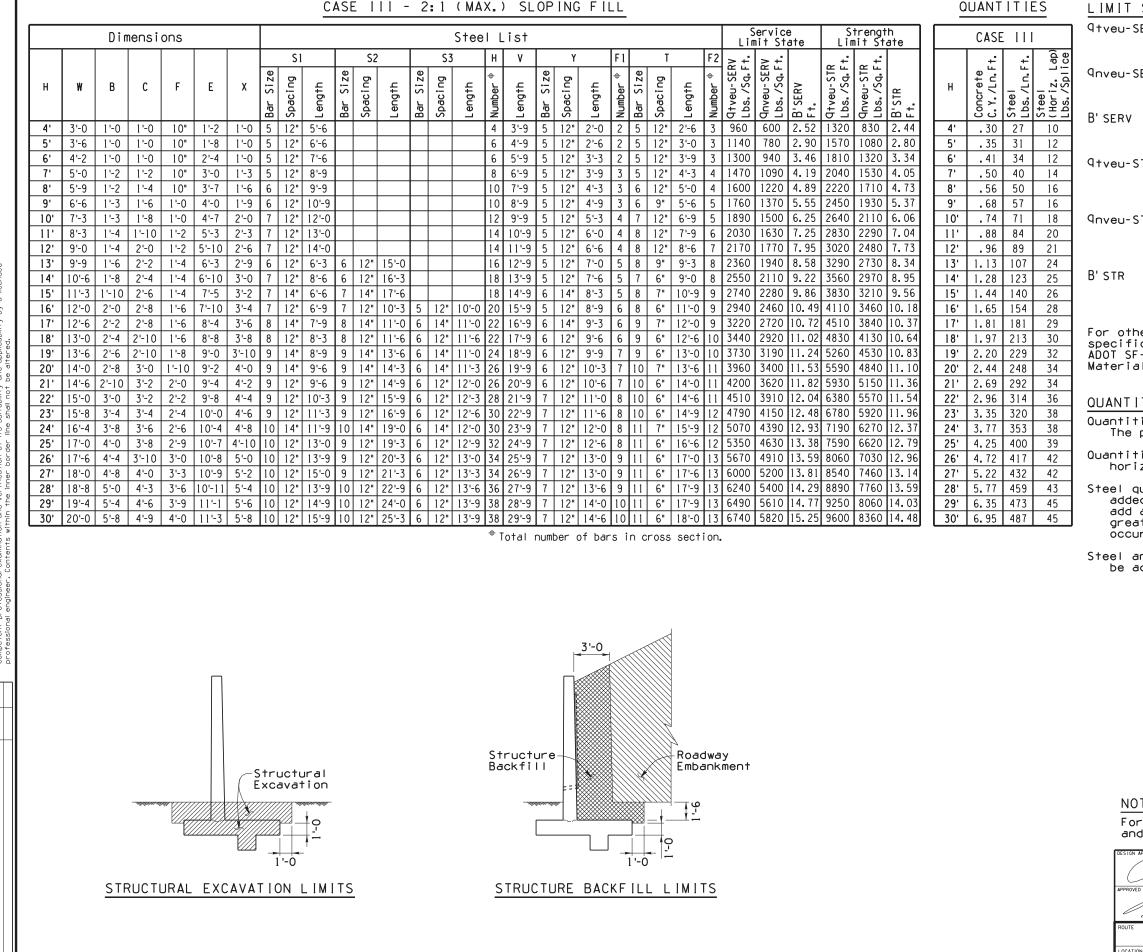


PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX

# DTE:

r General Notes, Typical Elevations, Sections, ad Details see SD 7.01 (1, 3 and 4).

	inn ama	ARIZONA DEPARTMENT OF INFRASTRUCTURE DELIVERY AN BRIDGE GROUP STRU	D OPERATIONS DIVISION
APPROVED FOR D	ISTRIBUTION		
	21 15,15	RETAINING (REINFORCED CONCRE	WALL TE CANTILEVER)
ROUTE	PROJECT NO.	FA NO.	DRAWING NO.
	RIVE		SD 7.01 (2 of 5)
LOCATION	18TH	PL TO 22ND ST	SHEET NO.
	ST85	110072	



S.U.H. added limit state values and notes.

9-10 1-15

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R	=	Effective footing width to be used only for the evaluation of bearing resistance based on the Strength 1

Limit State as per ADOT SF-1.

For other applicable limit states, perform project specific-analysis using the procedures in ADOT SF-1. ADOT SF-1 (Materials Group memorandum) is found at Materials Group website.

# QUANTITIES NOTE:

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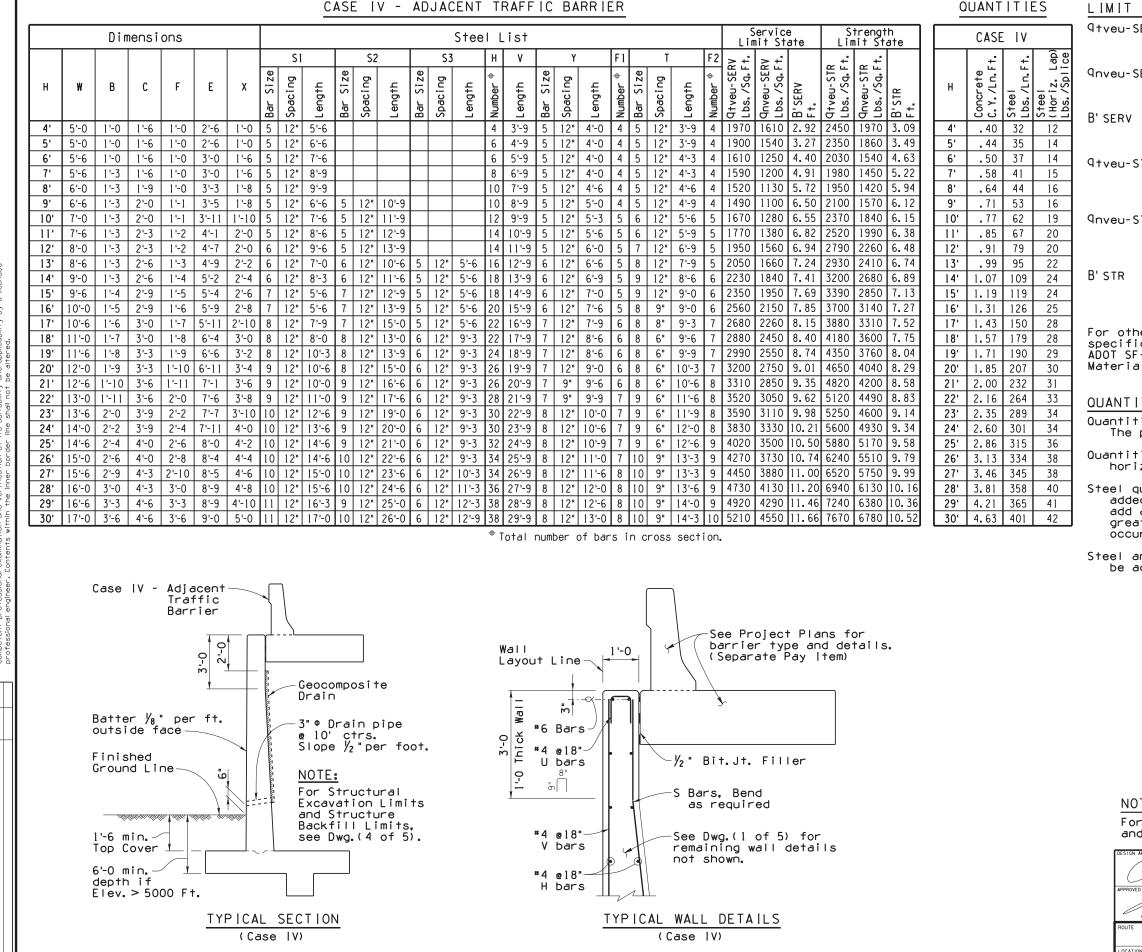
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# NOTE:

For General Notes, Typical Elevations, Sections and Details see SD 7.01 (1 to 3).

		aman	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STRUCTURE DETAIL										
APPROVED FOR D		1. <i>I</i> A	RETAINING (REINFORCED CONCRE			TILE	VEF	2)					
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DATE 9-10 NADE E S.U.H. added limit state values and notes. Issue update, Original General

# LIMIT STATE NOTES:

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u-STR	_	on the Strength   Limit State as per ADOT SF-1.
U-31K	-	Net equivalent uniform vertical bearing stress to be used only for the evaluation of bearing resistance based on the Strength   Limit State as per
R	=	ADOT SF-1. Effective footing width to be used only for the evaluation of bearing resistance based on the Strength 1

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# NOTE:

For General Notes, Typical Elevations, Sections and Details see SD 7.01 (1 to 4).

		aman	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STRUCTURE DETAIL										
APPROVED FOR D	ISTRIBUTION												
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ROUTE	PROJECT NO.		FA NO.			ING NO.							
		RIVERV	IEW DRIVE	SD	7.01	(5 0	f						
LOCATION		18TH PL	TO 22ND ST	SHEET		)F							
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# CITY OF PHOENIX GENERAL NOTES FOR UTILITY CONSTRUCTION

- ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) 1. UNIFORM STANDARD SPECIFICATIONS AND DETAILS OF PUBLIC WORKS CONSTRUCTION, AND THE CITY OF PHOENIX SUPPLEMENTS TO MAG
- ALL WORK PERFORMED IN THE CITY OF PHOENIX RIGHTS-OF-WAY SHALL BE GOVERNED BY THE LATEST EDITION OF THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL.
- 3 THIS SET OF PLANS WAS REVIEWED BY THE CITY OF PHOENIX UTILITY COORDINATION SECTION IN COMPLIANCE WITH CITY REQUIREMENTS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FOR REQUIRING CORRECTION OF ERRORS FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE OR CITY OF PHOENIX REQUIREMENT FOR UTILITY CONSTRUCTION IN THE RIGHTS-OF-WAY
- THE CONTRACTOR SHALL HAVE A COPY OF THE APPROVED CONSTRUCTION PLANS AND APPROVED TRAFFIC 4 CONTROL PLAN AT THE PROJECT SITE AT ALL TIMES.
- ALL UTILITIES CROSSING STREETS MUST BE BORED OR PUNCHED UNLESS PERMISSION TO OPEN CUT AS BEEN GIVEN IN WRITING BY THE CITY ENGINEER.
- BEFORE STARTING ANY WORK ON A MAJOR OR COLLECTOR STREET, THE UTILITY COMPANY SHALL SCHEDULE A 6 PRE CONSTRUCTION MEETING WITH THE CITY OF PHOENIX STREET TRANSPORTATION DEPARTMENT'S UTILITY INSPECTION SECTION.
- THE CITY OF PHOENIX DOES NOT WARRANT ANY QUANTITIES SHOWN ON THE PLANS 7
- UTILITY COMPANIES ARE TO COORDINATE ALLEY WORK WITH THE REFUSE SECTION. 8.
- THE UTILITY COMPANY SHALL CONTACT THE CITY OF PHOENIX STREET TRANSPORTATION DEPARTMENT'S UTILITY 9 INSPECTION SECTION A MINIMUM OF 48 HOURS IN ADVANCE OF STARTING WORK, GIVING LOCATION AND PERMIT NUMBER IN ORDER TO SCHEDULE INSPECTIONS.
- 10. ALL WORK REQUIRING ASPHALT REPLACEMENT, CONCRETE REPLACEMENT, OR RESURFACING ALLEYS IN THE CITY OF PHOENIX RIGHTS-OF-WAY WILL REQUIRE A FINAL INSPECTION WITH THE UTILITY COMPANY REPRESENTATIVE AT TIME OF COMPLETION.
- MAINTAIN A MINIMUM SIX (6) FEET HORIZONTAL SEPARATION AND ON (1) FOOT VERTICAL FROM ALL WATER AND 11 SEWER MAINS, ALL MEASUREMENTS OUTSIDE TO OUTSIDE.

# GENERAL TRENCHING NOTES

- ALL WORK TO COMPLY WITH THE APS TRANSMISSION & DISTRIBUTION CONSTRUCTION STANDARDS (T.A.D.C.S) MANUAL. ALL WORK SHALL COMPLY WITH THE NECESSARY PERMIT RESTRICTIONS AND 1. REQUIREMENTS AS PROMULGATED BY THE LOCAL GOVERNMENTAL AGENCY AND / OR OTHER PUBLIC REGULATORY AGENCIES.
- ALL TRENCHING ACTIVITIES SHALL CONFORM TO O.S.H.A. 2. REGULATIONS. PROTECTION FOR EMPLOYEES AND OTHERS PER O.S.H.A. REQUIREMENTS SHALL BE PROVIDED ON ALL WORK.
- ***** DENOTES BACKFILL AND COMPACTION PER APS SPECIFICATIONS AS DEFINED IN THE 8601 SECTION OF THE APS T. & D.C.S. MANUAL. BEDDING, SHADING AND BACKFILL SHALL HAVE 100% COMPACTION IN TRAVELED AREAS AND 95% COMPACTION ELSEWHERE.
- MAINTAIN MINIMUM 12" VERTICAL SEPARATION BETWEEN ALL APS 4. INTAIN TAIN MINIMUM TO A VERY TOTAL SEPARATION DETWEAT ALL APS FACILITIES (I.E. DUCT BANK, CONDUIT, AND CABLE) AND ANY EXISTING UNDERGROUND CONFLICTS. MAINTAIN A MINIMUM OF 24" VERTICAL SEPARATION FROM ANY PROPOSED UNDERGROUND CONFLICTS.
- THE USABILITY OF ALL CONDUIT SYSTEMS MUST BE ENSURED. THE PARTY RESPONSIBLE FOR INSTALLING THE CONDUIT SHALL MANDRELL. MANDRELLING SHALL BE PER APS SPECIFICATIONS AS DEFINED IN 5. THE 8601 SECTION OF THE APS T.A.D.C.S. MANUAL
- A POLYESTER, PRE-LUBRICATED FLAT STRAP PULL LINE (8895.MR) IS REQUIRED IN ALL CONDUIT RUNS. THE PULL LINE SHALL BE PROVIDED BY APS, AND INSTALLED BY THE CONTRACTOR.
- TRENCH DEPTHS SHOWN ARE MINIMUM REQUIREMENTS. 7.
- THE TRENCH BOTTOM SHALL BE SMOOTH, FLAT AND WITHOUT SURFACE IRREGULARITIES, OTHERWISE A SUFFICIENT AMOUNT OF BEDDING MATERIAL SHALL BE INSTALLED TO PROVIDE THE REQUIRED SURFACE. THE BEDDING MATERIAL SHALL NOT CONTAIN ROCKS LARGER THAN 1-1/2" IN THEIR GREATEST DIMENSION. THE BEDDING MATERIAL SHALL CONTAIN A SUFFICIENT VOLUME OF FINES TO FILL ALL VOIDS
- CONTRACTOR SHALL NOT TRENCH CLOSER THAN 2' TO APS FACILITIES (EXCEPT 4' TO POLES) UNLESS AN APS REPRESENTATIVE IS PRESENT
- 10. WHEN PASSING OVER OR UNDER CONFLICTS, TRENCH SHALL NOT BE SLOPED STEEPER THAN 1:12 RATIO OR MINIMUM RADIUS OF 160 TIMES THE OUTSIDE DIAMETER OF THE CONDUIT.
- TRENCH WIDTHS SHOWN ARE MINIMUM REQUIREMENTS BASED ON CONDUIT SIZES. TRENCHES 46 INCHES OR MORE IN DEPTH, MEASURED 11 TO THE TOP OF THE INSTALLED BEDDING MATERIAL, SHALL BE A MINIMUM OF 16 INCHES IN WIDTH WHEREVER A WORKER MUST ENTER THE TRENCH. TRENCHES 60 INCHES OR MORE IN DEPT, MEASURED TO THE TOP OF THE INSTALLED BEDDING MATERIAL, SHALL BE A MINIMUM OF 24 INCHES IN WIDTH WHEREVER A TRENCH MUST BE SHORED
- REFER TO 8648 FOR MINIMUM TRENCH DEPTH REQUIREMENTS AT THE 12. APPROACH TO AND BENEATH A P S PAD-MOUNTED FOUIPMENT AND SUBSTRUCTURES. THESE MINIMUMS ARE REQUIRED TO ENSURE ADEQUATE VERTICAL SPACE IS AVAILABLE TO INSTALL THE CONDUIT SWEEPS. CONDUIT SWEEPS SHALL NOT BE CUT-OFF TO FACILITATE INSTALLATION.
- THE TRENCHING CONTRACTOR IS REQUIRED TO PROVIDE A TRAFFIC 13. CONTROL PLAN (T.C.P.) PRIOR TO APPLYING FOR A TRENCHING PERMIT
- 14. SPACING BETWEEN APS LAYERS IS 6" MINIMUM WHEN MECHANICAL COMPACTION IS USED: OTHERWISE, IT CAN BE DECREASED TO 3"

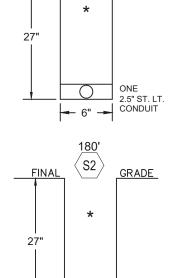


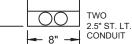
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FINA





# **ITEMS OF RESPONSIBILITY**

- 1. TO BE PROVIDED BY THE CITY OF PHOENIX CONTRACTOR
- A. ALL TRENCH MATERIAL AND TRENCH RELATED WORK INCLUDING BUT NOT LIMITED TO; TRENCHING, ASPHALT CUTTING, MILLING, POT-HOLING, T-TOPS, PUNCHING, BORING, SPOILS REMOVAL, BACKFILL MATERIAL AND COMPACTION (PER APS T.A.D.C.S. MANUAL, SECTION 8601), ALL SURFACE RESTORATION (i.e., LANDSCAPING, SIDEWALKS, CURBS, GUTTERS, ASPHALT, ETC.) AS IT RELATES TO WORK PERFORMED ON THIS PROJECT BY THE CITY OF PHOENIX CONTRACTOR AND APS CREWS.
- B. LABOR TO INSTALL ALL APS PROVIDED GROUND RODS (OR ALTERNATE GROUNDING MATERIAL); SECONDARY JUNCTION BOXES, PULL LINE, CONDUIT PLUGS, CONDUIT IDENTIFICATION RINGS, ELECTRONIC MARKERS AND ASSOCIATED MATERIALS.
- C. LABOR AND MATERIAL FOR ALL STREET LIGHT POLES, STREET LIGHT MAST ARMS, STREET LIGHT LUMINAIRES, FUSES IN HAND HOLES AND STREET LIGHT SONO TUBE INSTALLATIONS PER APS SPECIFICATIONS
- ALL MISCELLANEOUS MATERIAL AND WORK INCLUDING BUT NOT LIMITED TO; BARRICADING, SHORING, STEEL PLATING AND TRAFFIC D. CONTROL
- ALL CONDUIT SHOWN TO BE INSTALLED IN ENERGIZED EQUIPMENT, WILL BE CAPPED AND LOCATED AT A POINT EITHER 2' FROM THE EQUIPMENT OR FROM THE BLUE STAKE MARKINGS FOR UNDERGROUND ELECTRIC CABLES UNLESS QUALIFIED PERSONNEL ARE UTILIZED
  - WARNINGS: CUSTOMER CONTRACTOR SHALL NOT ENTER APS-OWNED EQUIPMENT
- F. ANY POT HOLES REQUIRED FOR LOCATING OTHER UTILITIES ALONG WITH SURFACE RESTORATIONS

2. TO BE PROVIDED BY THE ARIZONA PUBLIC SERVICE COMPANY AND INSTALLED BY THE CITY OF PHOENIX CONTRACTOR

- A. ALL GROUND RODS OR ALTERNATE GROUNDING MATERIAL SECONDARY JUNCTION BOXES, PULL STRAP. AND ELECTRONIC U.G. MARKERS
- 3. PROVISIONS FOR SURVEY OF BOTH HORIZONTAL AND VERTICAL CONTROL
- A. THE CITY OF PHOENIX CONTRACTOR SHALL PROVIDE BENCHMARKS AND VERTICAL CONTROL
- B. APS SURVEY SHALL PROVIDE HORIZONTAL LAYOUT ONLY.

- C. ALL TRENCH DEPTHS MUST INCORPORATE THE VERTICAL SPACE AND SEPARATIONS REQUIRED BY THE OTHER JOINT-USE TRENCH OCCUPANTS. THIS INCLUDES SECTIONS OF TRENCH THAT ARE NOT JOINTLY-USED WITH APS. MINIMUM COVER REQUIREMENTS FOR APS FACILITIES ARE NOTED WITH THE TRENCH DETAILS.
- D. WHEN THOSE OTHER THAN APS, ARE REQUIRED TO PROVIDE SURVEY, THE REQUIREMENT IS AN EXCEPTION TO THE APS STANDARD 8601 APS STANDARD 8601 SPECIFIES THAT APS SHALL ALWAYS PROVIDE SURVEY. WHERE THE REQUIREMENT FOR OTHERS TO PROVIDE SURVEY IS SPECIFIED ON THE CONSTRUCTION SKETCH, THAT REQUIREMENT SHALL TAKE PRECEDENCE OVER THE CONFLICTING PORTION OF THE APS STANDARD 8601
- 4. TO BE PROVIDED BY THE ARIZONA PUBLIC SERVICE COMPANY AND INSTALLED BY ARIZONA PUBLIC SERVICE COMPANY:
- A. LABOR AND MATERIAL FOR ALL STREET LIGHT SECONDARY WIRE FROM JUNCTION BOX TO JUNCTION BOX, CONNECTIONS IN JUNCTION BOXES AND REMOVAL/REPLACEMENT OF EXISTING WIRE WHERE NOTED
- B. CONDUIT SYSTEM INSPECTION INCLUDING: TRENCH WORK AND DEPTHS. CONDUIT INSTALLATION, MISCELLANEOUS WORK AND INSTALLATIONS. CALL THE APS INSPECTOR. 602-708-8881 OR 602-371-6512 A MINIMUM OF FIVE WORKING DAYS PRIOR TO THE START OF TRENCHING

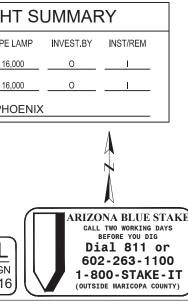
# 5. HAULING AND DELIVERY:

A. APS DOES NOT DELIVER THE APS PROVIDED MATERIALS TO THE CONTRACTOR. IN ORDER TO LIMIT THE WAIT TIME FOR THE CITY'S TRENCHING CONTRACTOR, AN APPOINTMENT MUST BE SCHEDULED WITH THE APS WAREHOUSE FOR MATERIAL PICKUP. CALL ALISSA SCHAD (602-371-7758) TO SCHEDULE THE APPOINTMENT. AN ARRIVAL TIME LATER THAN TEN MINUTES, MAY RESULT IN AN APS CANCELLATION OF THE APPOINTMENT, DEPENDING ON THE CONGESTION AND WORKLOAD PRESENT AT THE APS WAREHOUSE

TOTAL WIRE ( ft )	STREETLIGH
INSTALL	STREETEIGH
• 6220.UA1/0AL = 1194'	SYM #/TYPE POLE #/TYPE
• 6220.UA4/0B = 651'	
REMOVE	<u>6 - 1946.D32FD</u> 6 - 16,
• 6220.UA1/0AL = 651'	<u> </u>
	BILL TO: CITY OF PH

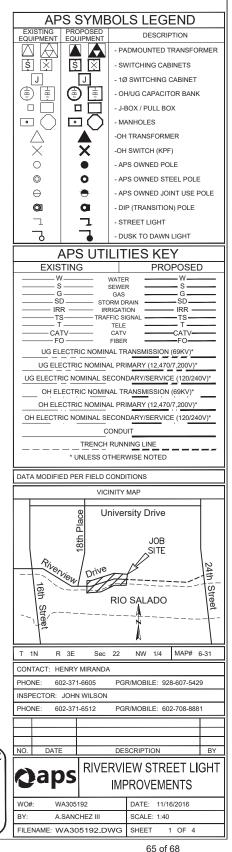


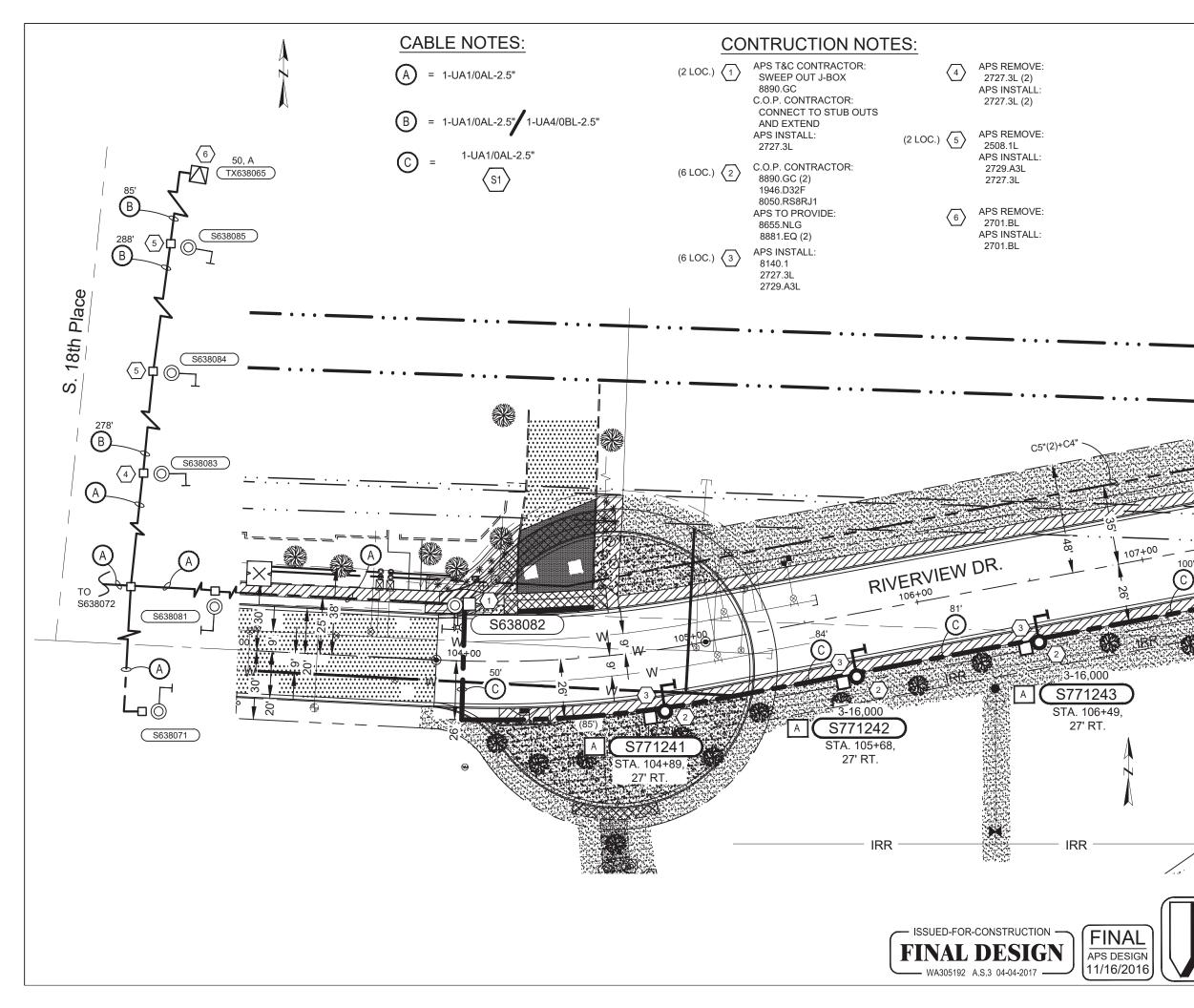




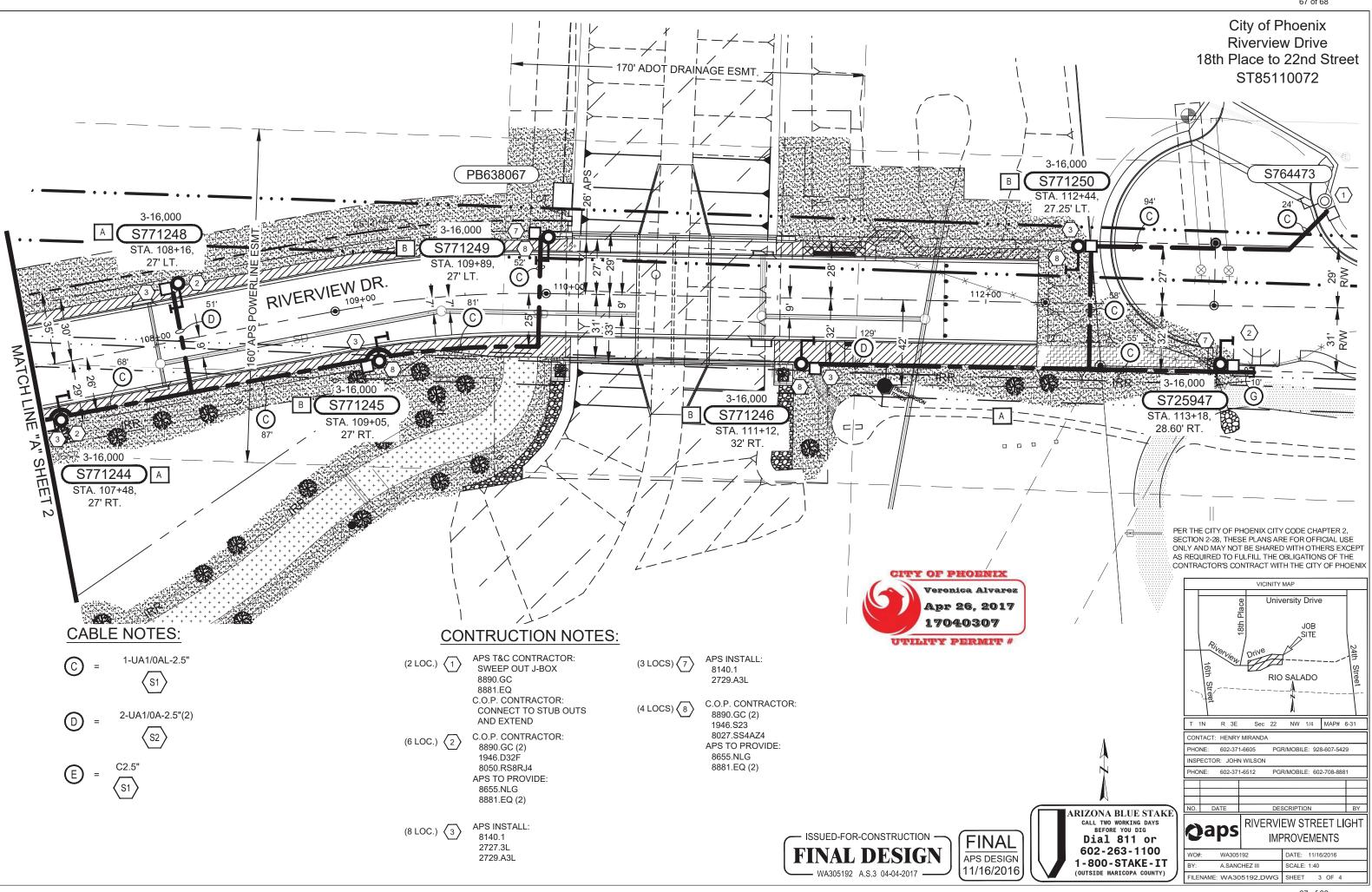
# City of Phoenix **Riverview Drive** 18th Place to 22nd Street ST85110072

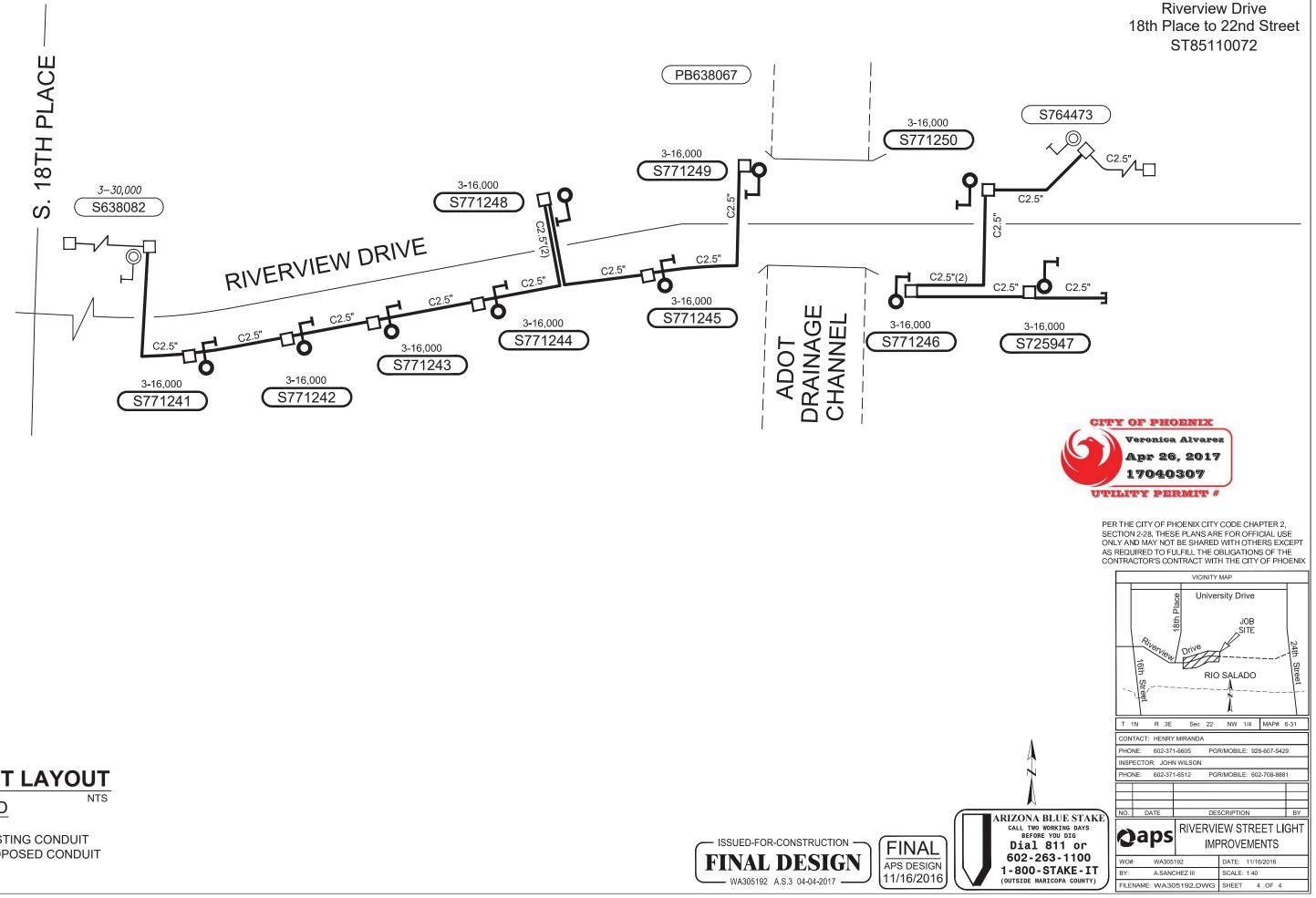
PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX

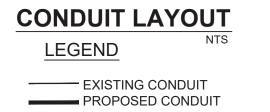


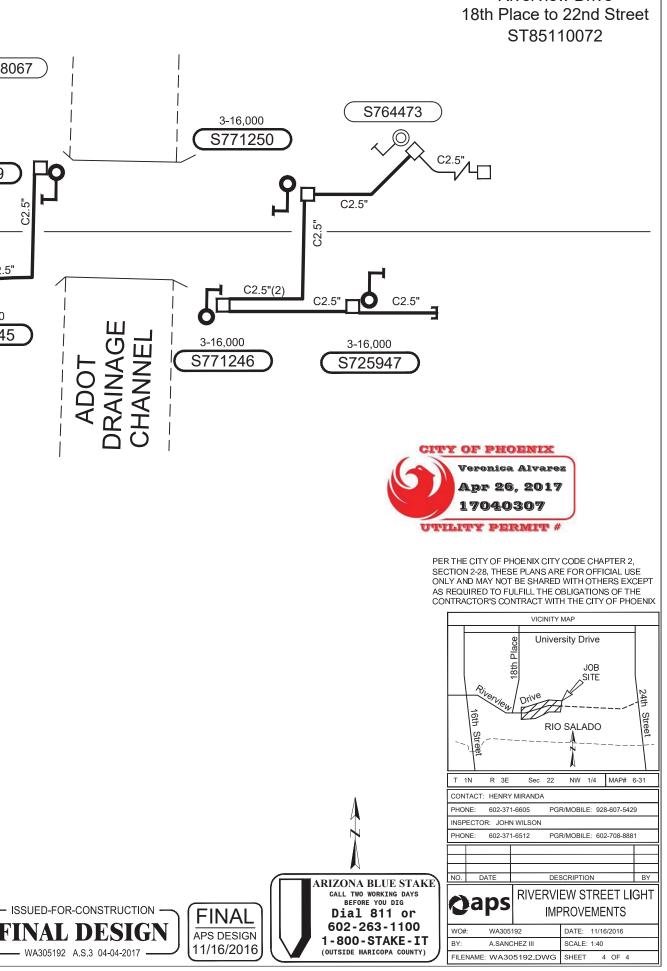


City of Phoenix **Riverview Drive** 18th Place to 22nd Street ST85110072 **CITY OF PHOENIX** Veronica Alvarez Apr 26, 2017 17040307 UTILITY PERMIT # 26 PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX VICINITY MAP University Drive JOF RIO SALADO Sec 22 NW 1/4 MAP# 6-31 T 1N R 3E CONTACT: HENRY MIRANDA PHONE: 602-371-6605 PGR/MOBILE: 928-607-5429 NSPECTOR: JOHN WILSON 602-371-6512 HONE: PGR/MOBILE: 602-708-8881 O. DATE DESCRIPTION **RIZONA BLUE STAKE** CALL TWO WORKING DAYS BEFORE YOU DIG **RIVERVIEW STREET LIGHT** Caps **IMPROVEMENTS** Dial 811 or 602-263-1100 WA305192 DATE: 11/16/2016 WO#: 1-800-STAKE-IT A.SANCHEZ III SCALE: 1:40 BY∙ (OUTSIDE MARICOPA COUNTY) FILENAME: WA305192 DWG SHEET 2 OF 4









**City of Phoenix**