

KIVA # _____

SDEV # _____

CITY OF PHOENIX

OFFICE OF THE CITY ENGINEER

VERTICAL PROJECT MANAGEMENT SECTION

LOCAL DRAINAGE MITIGATION PROJECT PACKAGE 3

22ND AVENUE CITY CLERK SITE ASPHALT REPLACEMENT

2640 SOUTH 22ND AVENUE

PW26220003-1

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	PW26220003-1	1	42	
02/05/2024 DATE			IVAN IVICH CONSULTING ENGINEER		
DES: RM	DR: RM	CK: II	DATE: 02/05/24		



MAYOR
KATE GALLEGO

CITY MANAGER
JEFFREY BARTON

CITY COUNCIL

DISTRICT NO 1.	ANN O'BRIEN
DISTRICT NO 2.	JIM WARING
DISTRICT NO 3.	DEBRA STARK
DISTRICT NO 4.	LAURA PASTOR
DISTRICT NO 5.	BETTY GUARDADO
DISTRICT NO 6.	SAL DICICCIO
DISTRICT NO 7.	YASSAMIN ANSARI
DISTRICT NO 8.	CARLOS GARCIA

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE RE-PAVING OF 54,500 SQ. FT. OF THE EXISTING PARKING LOT AND THE RE-ROUTING OF AN EXISTING 12-INCH STORM DRAIN (102 LF) TO A PROPOSED UNDERGROUND STORMWATER STORAGE FACILITY TO BE DESIGNED BY OTHERS.

LEGAL DESCRIPTION

LOT TWENTY-THREE (23) OF BRADLEY RANCH, BOOK 3, PAGE 72, M.C.R.

BENCHMARK

THE PRIMARY CITY OF PHOENIX BENCHMARK IS A BRASS CAP IN HAND HOLE AT THE CENTER OF 19TH AVENUE AND LOWER BUCKEYE ROAD N.G.V.D. 29 ELEVATION = 1052.70.

ADDRESS

CITY CLERK SITE
2640 S. 22ND AVENUE
PHOENIX, AZ 85009

SITE INFORMATION

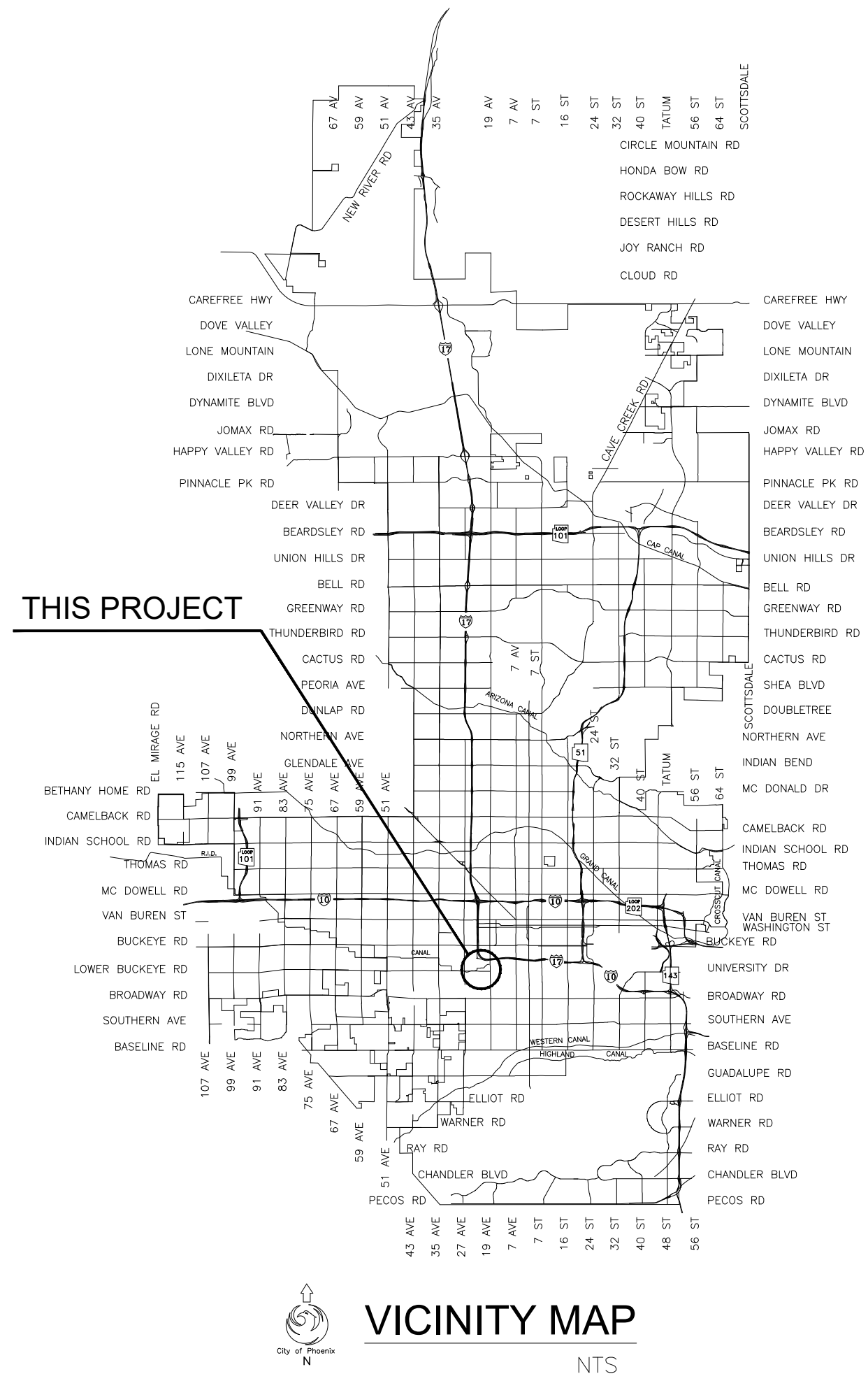
NET SITE AREA = 5.02 AC
DISTURBED AREA = 1.35 AC
APN 105-25-022A

OWNER

CITY OF PHOENIX
PUBLIC WORKS DEPARTMENT
2631 S. 22ND AVENUE
PHOENIX, AZ 85009
PROPERTY MANAGER: GREG THUL
602.534.8335

ENGINEER

IVAN IVICH
GANNETT FLEMING
3838 N. CENTRAL AVENUE
SUITE 1900
PHOENIX, AZ 85012
602.553.8817



2024

INDEX OF SHEETS

C0.01	COVER SHEET
C0.02	LEGEND AND CONSTRUCTION NOTES
C0.03	DEMOLITION PLAN
C0.04	GRADING AND DRAINAGE PLAN
C0.05	STORM DRAIN PROFILE
C0.06	STRIPING PLAN
C0.07	CIVIL DETAILS

CONTROL POINT DATA STATE PLANE COORDINATES

CP#	NORTHING	EASTING	N.G.V.D. 29 ELEVATION	DESCRIPTION
CP1	881278.3958	641792.4442	1052.9800	ASHPHALT NAIL
CP2	881596.5839	641756.0144	1054.1400	ASHPHALT NAIL
CP3	881584.9353	641981.1354	1054.8600	X ON CONCRETE

NOTE: THIS PLAN IS REPRESENTED IN ARIZONA STATE PLAN COORDINATES CENTRAL ZONE. THE COMBINED GRID FACTOR TO OBTAIN GROUND APPROXIMATION IS 1.00014211.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Registered Engineer/Land Surveyor Registration No. Date

APPROVALS:

Joe Cortez
CLIENT DEPARTMENT

Chris Kobl...
ENGINEERING SUPERVISOR 10/17/24

VERTICAL PROJECT MANAGEMENT SECTION



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

ISSUED FOR CONSTRUCTION Q.S. 7-24 FINAL SUBMITTAL S 22ND AVE / W LOWER BUCKEYE RD PW26220003-1
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 Last Plotted: Thursday, October 17, 2024 9:02:16 AM



FALMA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PW26220003-1	2	42	

02/05/2024
DATE

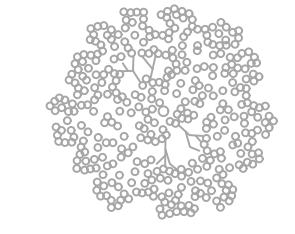
IVAN MICH, PE
CONSULTING ENGINEER

DESIGN: RM DRAWN: RM CHECKED: II

LEGEND

- RIGHT OF WAY / PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- LIMIT OF CONSTRUCTION
- ASPHALT / CONCRETE REMOVAL BOUNDARY
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- PROPOSED CONTOUR - MAJOR
- PROPOSED CONTOUR - MINOR
- PROPOSED STORM LINE
- EXISTING STORM LINE
- EXISTING ELECTRICAL LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- EXISTING WROUGHT IRON FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING GATE
- WATER VAULT - WATER METER
- FIBER OPTIC VAULT
- FIBER OPTIC MANHOLE
- SEWER CLEAN OUT
- LIGHT POLE
- BOLLARD
- ASPHALTIC CONCRETE PAVEMENT
- SINGLE CURB
- PAVEMENT ELEVATION
- EDGE OF PAVEMENT ELEVATION
- EDGE OF CONCRETE ELEVATION
- CONCRETE ELEVATION
- GROUND (DIRT) ELEVATION
- TOP OF CURB ELEVATION
- GUTTER ELEVATION
- TOP OF WALL ELEVATION

(A.C. PVMT.)



△ CP1

- EXISTING CONCRETE
- PHASE 1 LIMIT OF CONSTRUCTION
- CONCRETE REMOVAL AND EXCAVATION
- ASPHALT REMOVAL AND EXCAVATION
- PROPOSED CONCRETE VALLEY GUTTER
- PAVEMENT STRUCTURAL SECTION 1
- PAVEMENT STRUCTURAL SECTION 2

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	GB	GRADE BREAK
CO	CLEANOUT	LF	LINEAR FOOT
CP	CITY OF PHOENIX CONTROL POINT	LOC	LIMIT OF CONSTRUCTION
CY	CUBIC YARD	LP	LIGHT POLE
EA	EACH	MAG	MARICOPA ASSOC. OF GOVT'S
EP	EDGE OF PAVEMENT	PSI	POUNDS PER SQUARE INCH
EX	EXISTING	ROW	RIGHT-OF-WAY
FG	FINISHED GRADE	STD	STANDARD
FL	FLOW LINE	SY	SQUARE YARD
FO	FIBER OPTIC	TC	TOP OF CURB
FV	FIBER OPTIC VAULT	TYP	TYPICAL
		WV	WATER VALVE

LEGEND AND NOTES

CITY OF PHOENIX GRADING & DRAINAGE NOTES

- A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- PLANNING AND DEVELOPMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- STAKING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OF A FIELD CHANGE IS REQUIRED.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY, AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-6784 (TRAFFIC BUREAU NORTH).
- PLAN APPROVAL IS VALID FOR 12 MONTHS, 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.

ENGINEER'S NOTES

- THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, CITY OF PHOENIX SUPPLEMENTS TO M.A.G. STANDARD SPECIFICATIONS AND DETAILS, AND MAG STANDARD SPECIFICATIONS AND DETAILS, IN THAT ORDER OF PRECEDENCE, AT THE TIME OF CONSTRUCTION BID.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
- THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY AND MIGHT NOT REFLECT THE ACTUAL QUANTITIES AND SITE CONDITIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
- THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.
- 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 M.A.G. DETAIL 505. 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.
- THE CONTRACTOR SHALL CONFIRM EXISTING PIPE MATERIAL AT DESIGNATED CONNECTION POINTS PRIOR TO ORDERING ANY FITTINGS.
- 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.
- VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29
- 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.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, VERIFY, AND ACCEPT ALL CONSTRUCTION STAKES AND GRADES PRIOR TO STARTING CONSTRUCTION.
- ALL PRIVATE ON-SITE WATER AND SEWER FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE (IPC). ALL OTHER CONSTRUCTION SHALL BE IN ACCORDANCE WITH MOST RECENT M.A.G. STANDARD DETAILS AND SPECIFICATIONS.
- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST M.A.G. UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER (811) TWO (2) WORKING DAYS BEFORE EXCAVATION BEGINS.
- PERMISSION TO WORK IN THE RIGHT-OF-WAY (PWR) PERMITS ARE REQUIRED FOR ALL WORK WITHIN THE RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.

CITY OF PHOENIX PAVING NOTES

- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATION FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.
- THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREETLIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.
- THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT (602) 495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
- AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT-OF-WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS, AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF: [HTTPS://WWW.PHOENIX.GOV/STREETS/TRAFFIC-MANAGEMENT](https://www.phoenix.gov/streets/traffic-management)
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).

ISSUED FOR CONSTRUCTION



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.

C0.02 - LEGEND AND NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

22ND AVENUE CITY CLERK SITE
2640 SOUTH 22ND AVENUE
PW26220003-1

DR: RM	DES: RM	CK: II	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	2	42	
SCALE: N/A			2	42	

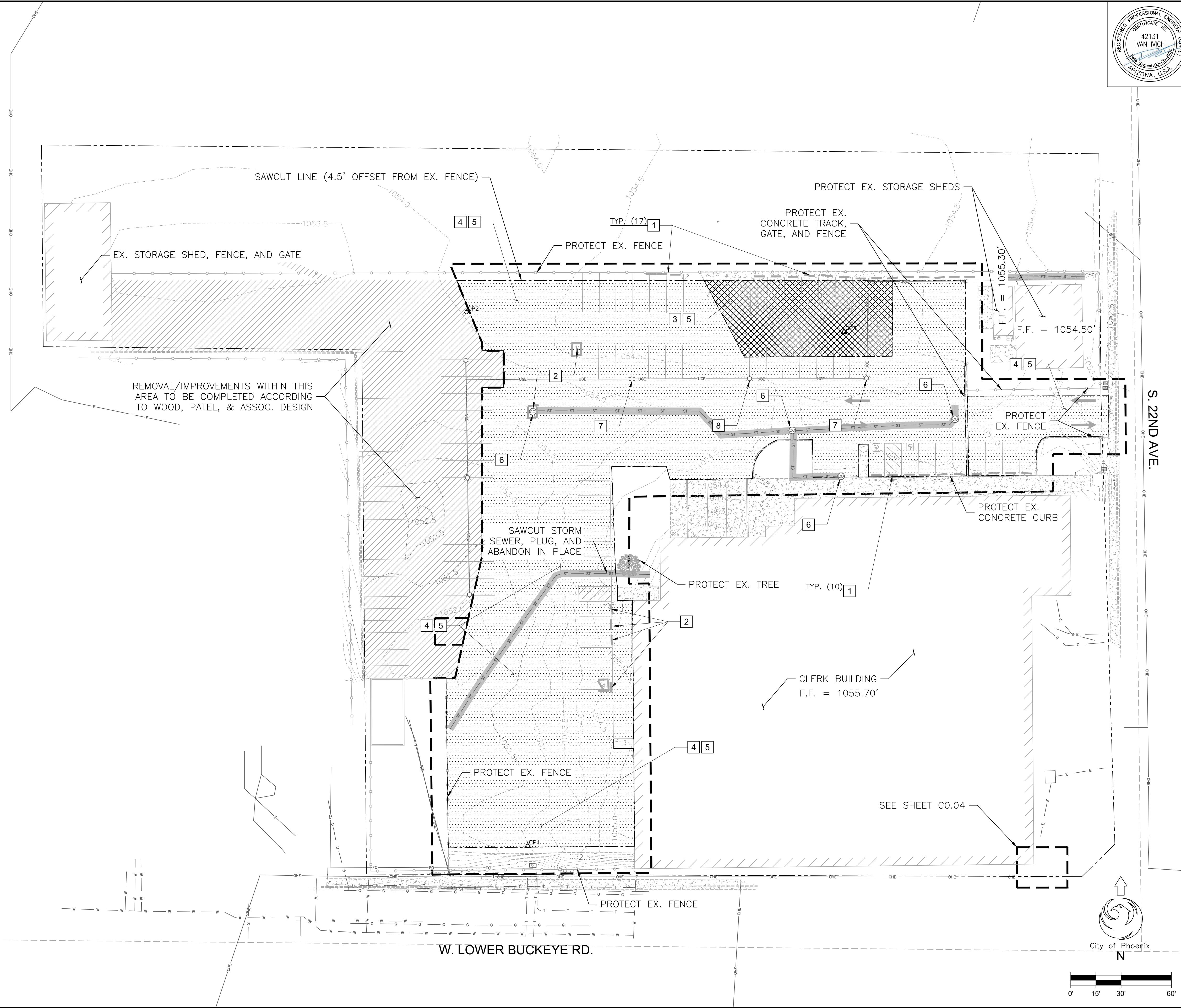
NO.	REVISION BY	DESCRIPTION	DATE



FALMA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PW26220003-1	3	42	
02/05/2024 DATE			IVAN MICH, PE CONSULTING ENGINEER		
DESIGN: RM		DRAWN: RM		CHECKED: II	

REMOVAL NOTES

NO.	DESCRIPTION	QUANTITY	UNIT
1	REMOVE AND RESET EXISTING CURB STOPS	27	EA
2	REMOVE AND SALVAGE EXISTING CURB STOPS	16	EA
3	REMOVE PORTLAND CEMENT CONCRETE	508	SY
4	REMOVE EXISTING ASPHALT PAVEMENT (THICKNESS 3.5" TO 9.5")	5,495	SY
5	REMOVE SUBGRADE SOILS TO A DEPTH OF 2' BELOW FINAL PAVEMENT ELEVATION	6,391	SY
6	PROTECT EXISTING SEWER CLEANOUT	4	NPI
7	PROTECT EXISTING LIGHT POLES AND FOUNDATIONS	6	NPI
8	PROTECT ALL EXISTING UNDERGROUND ELECTRICAL CONDUITS AND SEWER PIPES	-	NPI



REMOVAL/IMPROVEMENTS WITHIN THIS AREA TO BE COMPLETED ACCORDING TO WOOD, PATEL, & ASSOC. DESIGN

S. 22ND AVE.

W. LOWER BUCKEYE RD.

ISSUED FOR CONSTRUCTION

3838 N Central Ave. Suite 1900, Phoenix, AZ 85012
O: (602) 553-8817 | F: (602) 553-8816 | www.gfnet.com

Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

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C0.03 - DEMOLITION PLAN
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
22ND AVENUE CITY CLERK SITE
2640 SOUTH 22ND AVENUE
PW26220003-1

DR: RM	DES: RM	CK: II	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	3	42	
SCALE: 1" = 30'			3	42	

NO.	REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE

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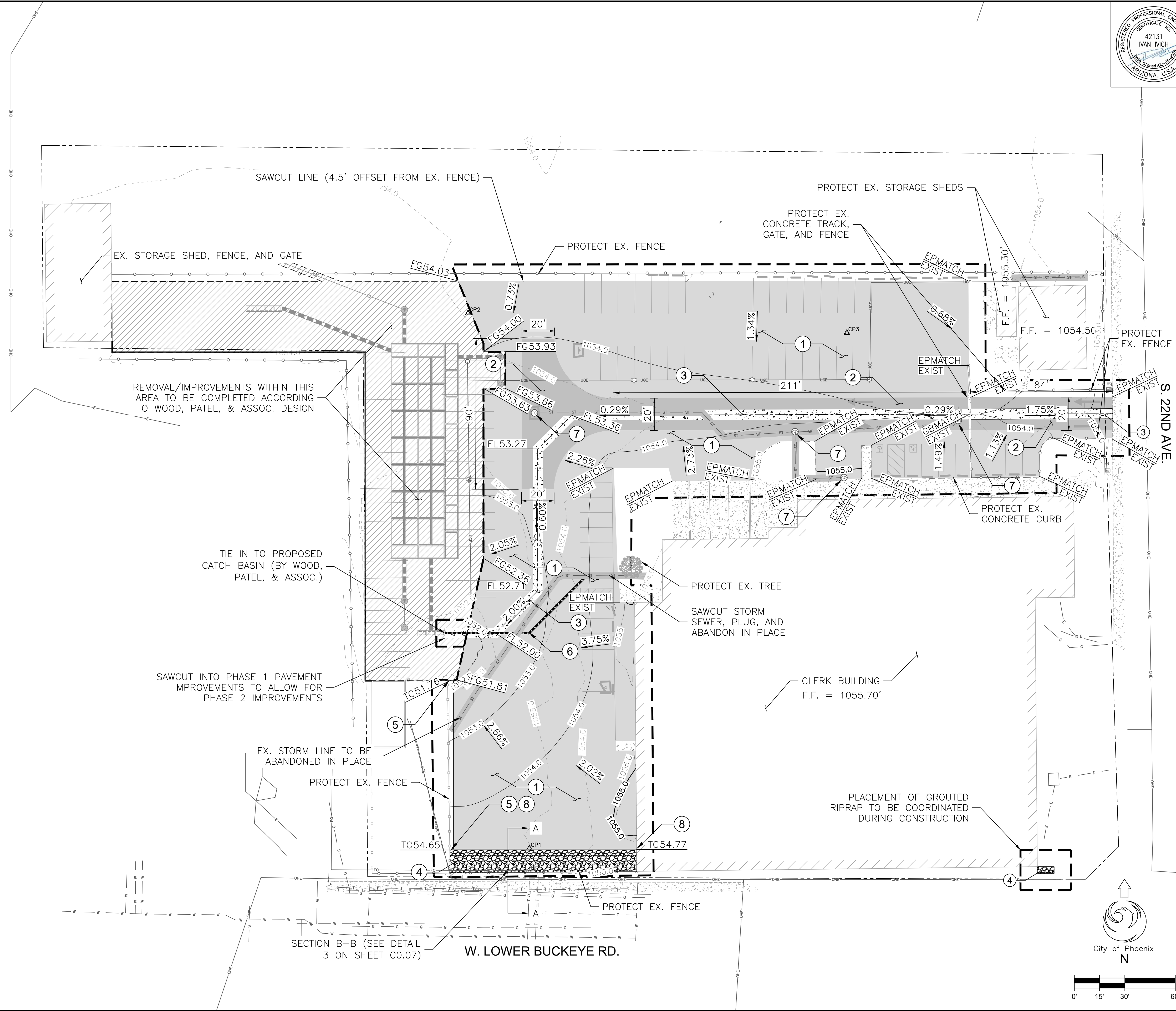


FALWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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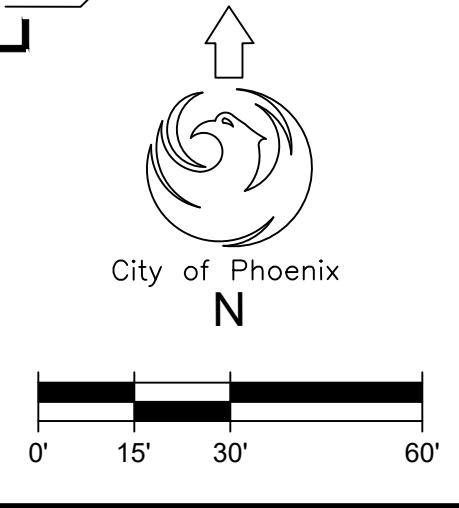
DATE: 02/05/2024
 CONSULTING ENGINEER: IVAN MICH, PE
 DESIGN: RM | DRAWN: RM | CHECKED: II

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY	UNIT
PAVEMENT STRUCTURAL SECTION 1			
1	3" ASPHALT CONCRETE BASE COURSE	993	TON
	6" AGGREGATE BASE COURSE	892	CY
	1'-3" STRUCTURAL BACKFILL	2,229	CY
PAVEMENT STRUCTURAL SECTION 2			
2	4" ASPHALT CONCRETE BASE COURSE	178	TON
	TACK COAT	0.40	TON
	6" AGGREGATE BASE COURSE	120	CY
	1'-3" STRUCTURAL BACKFILL	300	CY
	GEOTEXTILE	240	SY
OTHER CONSTRUCTION ITEMS			
3	VALLEY GUTTER (MAG STD DETAIL 240)	332	SY
4	RIP-RAP (D ₅₀ = 6") (SEE DETAIL 3 ON SHEET CO.07)	166	SY
5	VERTICAL CURB AND GUTTER (MAG STD DETAIL 220-1 TYPE "A")	212	LF
6	CLASS IV 12" RCP STORM SEWER PIPE (SEE SHEET CO.05 FOR STORM DRAIN PROFILE)	102	LF
7	ADJUST ALL VALVES AND CLEANOUTS TO MATCH NEW FINISHED GRADE	-	NPI
8	VERTICAL CURB (MAG STD DETAIL 222 TYPE "A")	110	LF



NO.	REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE



ISSUED FOR CONSTRUCTION

3838 N Central Ave. Suite 1900, Phoenix, AZ 85012
 O: (602) 553-8817 | F: (602) 553-8816 | www.gfnet.com

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C0.04 - GRADING & DRAINAGE PLAN

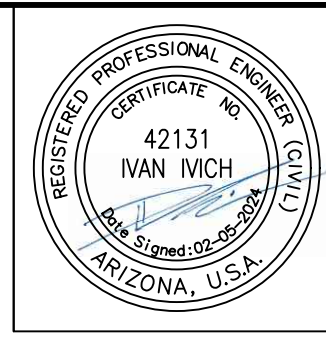
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

22ND AVENUE CITY CLERK SITE
 2640 SOUTH 22ND AVENUE
 PW2622003-1

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 SCALE: 1" = 30'

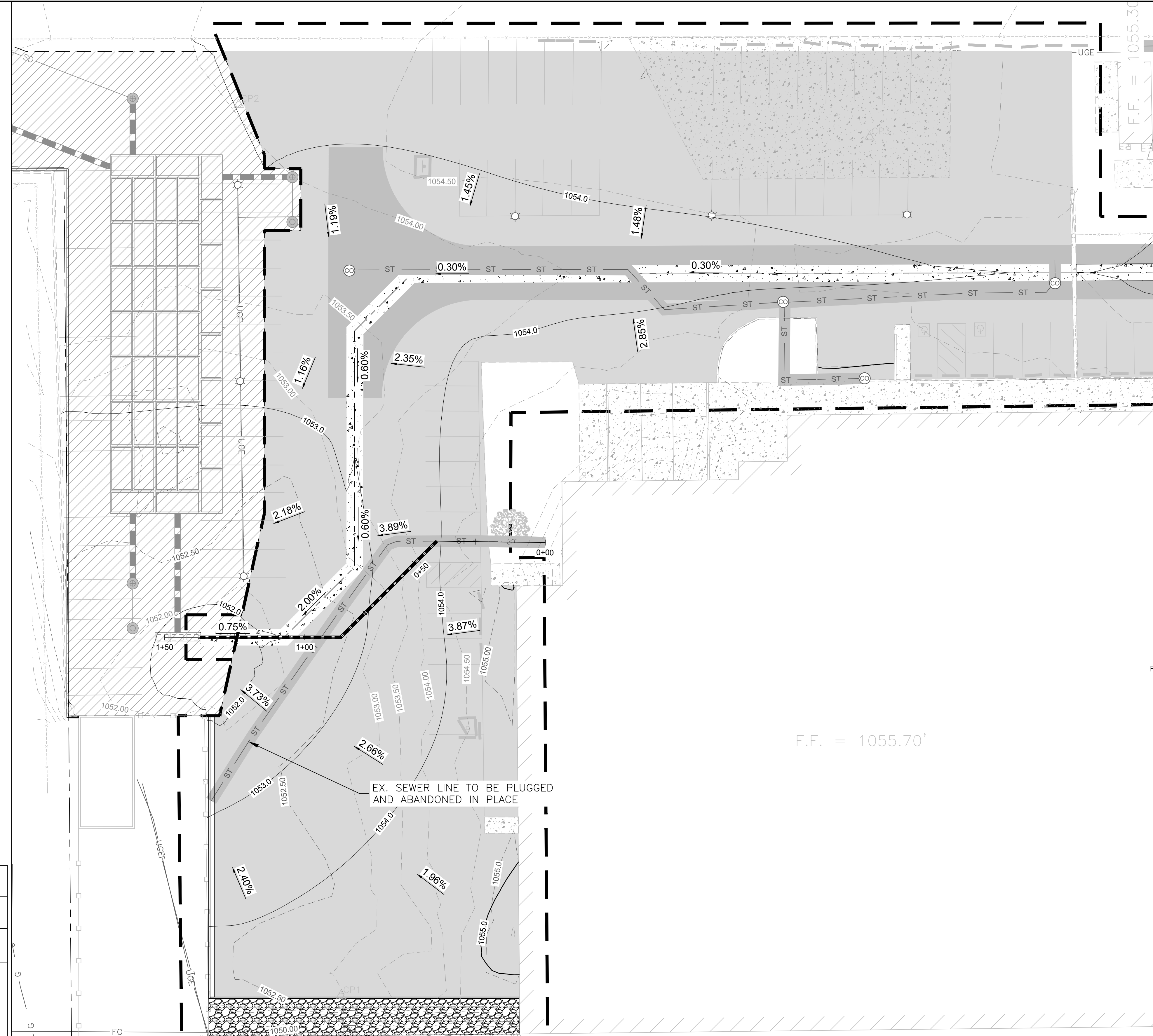
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 Last Saved: Monday, February 5, 2024 9:40:26 AM by rmanwaring
 Last Plotted: Monday, February 5, 2024 9:41:02 AM



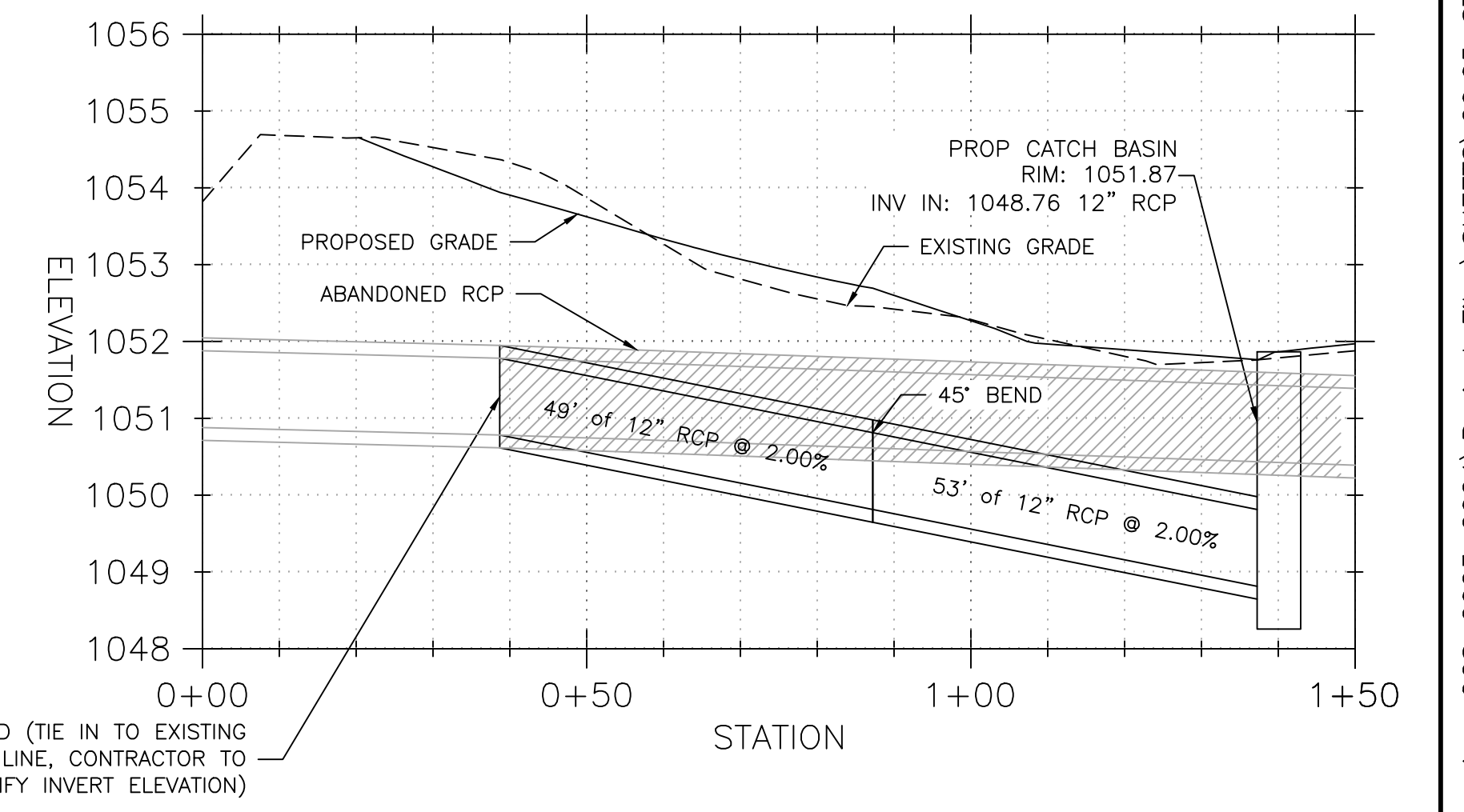
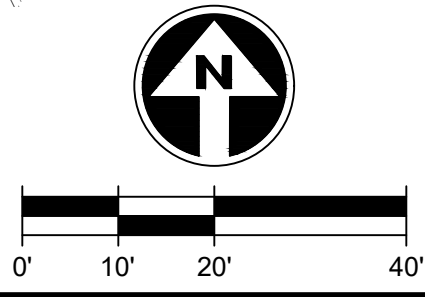
F.A.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PW26220003-1	5	42	

DATE: 02/05/2024
 DESIGN: RM
 DRAWN: RM
 CHECKED: II

IVAN VICH, PE
 CONSULTING ENGINEER



1
C0.05 STORM DRAIN PLAN
SCALE: 1" = 20'



2
C0.05 STORM DRAIN PROFILE
SCALE: V: 1" = 2'
H: 1" = 20'

NO.	REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE

ISSUED FOR CONSTRUCTION

3838 N Central Ave. Suite 1900, Phoenix, AZ 85012
 O: (602) 553-8817 | F: (602) 553-8816 | www.gfnet.com

Contact Arizona 811 at least two full working days before you begin excavation.
 Call 811 or click Arizona811.com

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.

C0.05 - STORM DRAIN PROFILE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
22ND AVENUE CITY CLERK SITE
2640 SOUTH 22ND AVENUE
PW26220003-1

DR:	DES:	CK:	SHEET NO.:	TOTAL SHEETS:	AS BUILT:
RM	RM	II	5	42	

DATE: 02/24 DATE: 02/24 DATE: 02/24
 SCALE: SEE LAYOUT

FILE: C:\Users\rmanwaring\DC\ACCDocs\GANNETT FLEMING INC\073431_300-Phnx_Ann_Ocs_2023_2024\Project Files\SHEETS\C0.05_STORM-DRAIN-PROFILE-NEW.dwg
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 Last Plotted: Monday, February 5, 2024 9:41:03 AM

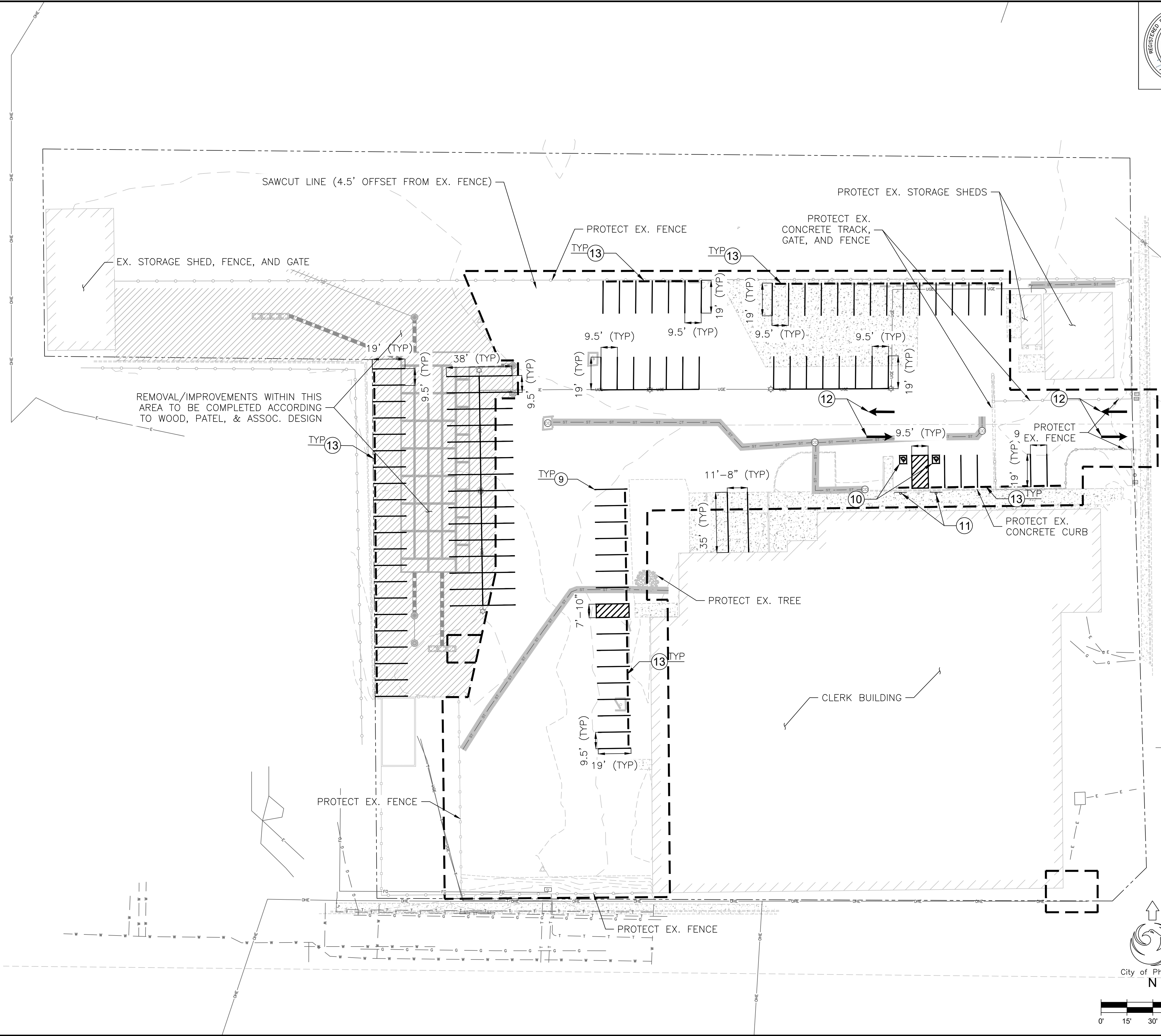


FALMA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PW26220003-1	6	42	
DATE			IVAN MICH, PE		
02/05/2024			CONSULTING ENGINEER		
DESIGN: RM	DRAWN: RM	CHECKED: II			

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY	UNIT
9	STRIPE PARKING STALLS WITH 4" WIDE WHITE LEAD-FREE LATEX TRAFFIC MARKING PAINT. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SPACES AND AISLE DIMENSIONS PER PLAN (TYP).	2,503	LF
10	STRIPE ADA SPACE AND AISLES WITH 4" WIDE WHITE LEAD-FREE LATEX TRAFFIC MARKING PAINT. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SPACES AND AISLE DIMENSIONS PER PLAN. SLOPES NOT TO EXCEED 2.0% IN ANY DIRECTION. CONTRACTOR SHALL CHECK GRADES BEFORE PLACING FINAL PAVING MATERIAL.	2	EA
11	PLACE ADA ACCESSIBLE SIGNAGE ACCORDING TO COP ZONING ORDINANCE SECTION 702.6	2	EA
12	REPLACE EXISTING PARKING LOT ARROWS IN KIND WITH WHITE LEAD-FREE LATEX TRAFFIC MARKING PAINT. INSTALL PER MANUFACTURER'S SPECIFICATIONS.	4	EA
13	PLACE CURB STOPS USING SALVAGED CURB STOPS UNTIL SUPPLY IS EXHAUSTED	-	NPI

NOTE: STRIPING FOR ENTIRE SITE WILL BE COMPLETED DURING PHASE 2 OF CONSTRUCTION



NO.	REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE

ISSUED FOR CONSTRUCTION

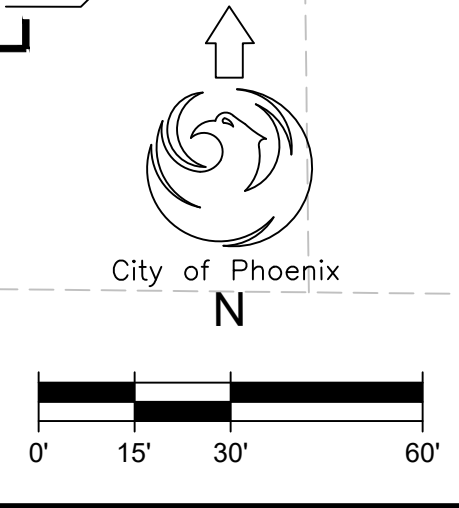
Contact Arizona 811 at least two full working days before you begin excavation

3838 N Central Ave. Suite 1900, Phoenix, AZ 85012
 O: (602) 553-8817 | F: (602) 553-8816 | www.gfnet.com

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C0.06 - STRIPING PLAN
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
22ND AVENUE CITY CLERK SITE
2640 SOUTH 22ND AVENUE
PW26220003-1

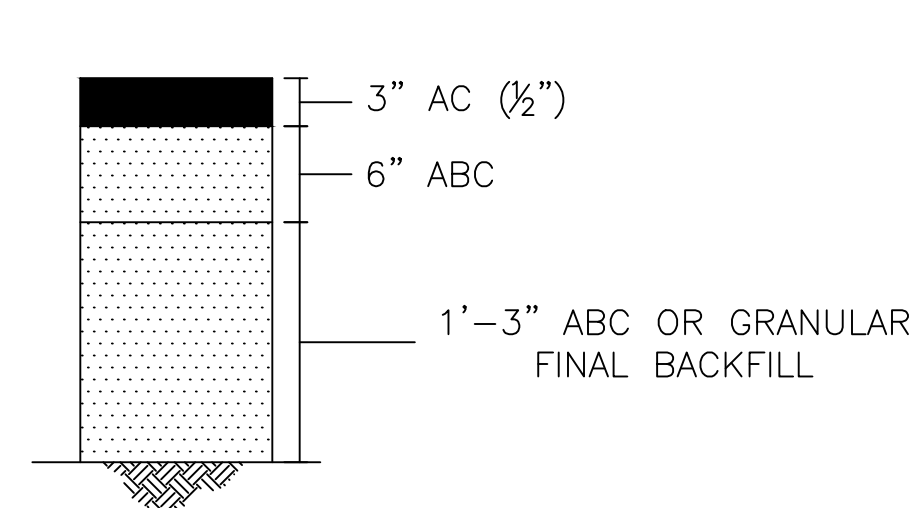
DR: RM	DES: RM	CK: II	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	6	42	
SCALE: 1" = 30'			6	42	



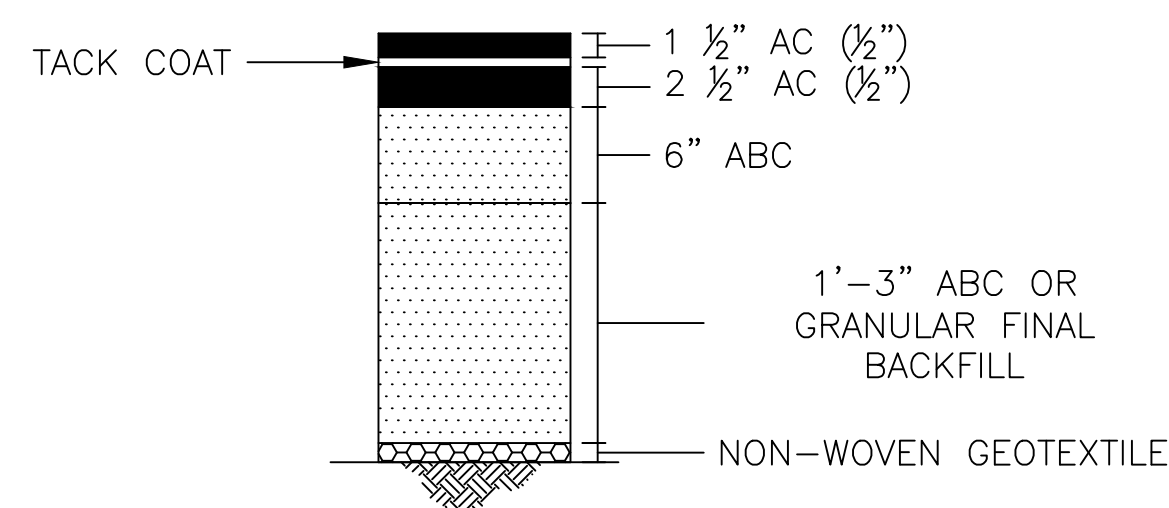
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 Last Saved: Monday, February 5, 2024 9:40:25 AM by rmanwaring
 Last Plotted: Monday, February 5, 2024 9:41:04 AM



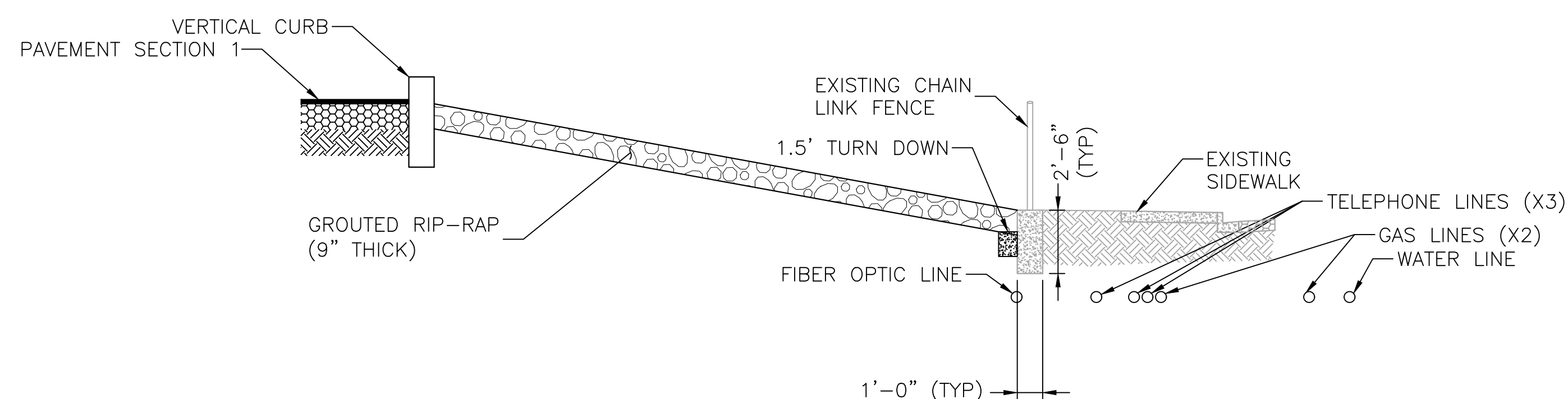
FALWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PW26220003-1	7	42	
DATE: 02/05/2024			IVAN IVICH, PE CONSULTING ENGINEER		
DESIGN: RM		DRAWN: RM		CHECKED: II	



1 PAVEMENT STRUCTURAL SECTION 1
SCALE: NTS



2 PAVEMENT STRUCTURAL SECTION 2
SCALE: NTS



3 RIP-RAP DETAIL SECTION A-A
SCALE: NTS

NOTES:

- RIP-RAP BED SHALL HAVE A THICKNESS OF AT LEAST 1.5 TIMES THE DIAMETER OF THE LARGEST RIP-RAP.
- RIP-RAP SHALL BE OBTAINED FROM ANY SOURCE APPROVED BY THE CITY OF PHOENIX OR PROJECT ENGINEER AND SHALL BE ROUND AND REASONABLY WELL-GRADED.
- GROUT SHALL BE A MINIMUM OF 2.5 PSI. GROUT SLUMP SHALL BE A MINIMUM OF 7"-9" OR TO PROJECT/ENGINEER SPECIFICATIONS.
- GROUT SHALL FULLY PENETRATE TO BASE OF RIP-RAP. A PENCIL VIBRATOR SHALL BE USED TO ENSURE GROUT PENETRATION.
- POUR GROUT FROM BASE OF SLOPE IN AN UPHILL DIRECTION.
- SURFACE OF RIP-RAP STONE PROJECTING ABOVE GROUT SHALL BE CLEAN TO MATCH ANY EXISTING RIP-RAP. SURFACE SHALL BE CLEANED BY AIR-WATER BLASTING OR OTHER APPROVED METHOD. CLEANING SHALL REMOVE ALL GROUT, CEMENT PASTE, AND DISCOLORATION CAUSED BY GROUT, WITHOUT DAMAGING THE GROUT TO REMAIN IN PLACE.

ISSUED FOR CONSTRUCTION

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O: (602) 553-8817 | F: (602) 553-8816 | www.gfnet.com

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Call 811 or click Arizona811.com

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C0.07 - CIVIL DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

22ND AVENUE CITY CLERK SITE
2640 SOUTH 22ND AVENUE
PW26220003-1

DR:	DFS:	CK:	SHEET NO.:	TOTAL SHEETS:	AS BUILT:
RM	RM	II	7	42	
DATE: 02/24	DATE: 02/24	DATE: 02/24			
SCALE: N/A			7	42	

NO.	REVISION BY	DESCRIPTION	DATE

AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

PROJ REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140112	8	42

WOOD PATEL
Wood, Patel & Assoc., Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

CITY OF PHOENIX

STREET TRANSPORTATION DEPARTMENT

DESIGN & CONSTRUCTION MANAGEMENT DIVISION

2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 3

22ND AVE & LOWER BUCKEYE RD DRAINAGE IMPROVEMENTS

ST83140112

MAYOR
KATE GALLEGRO

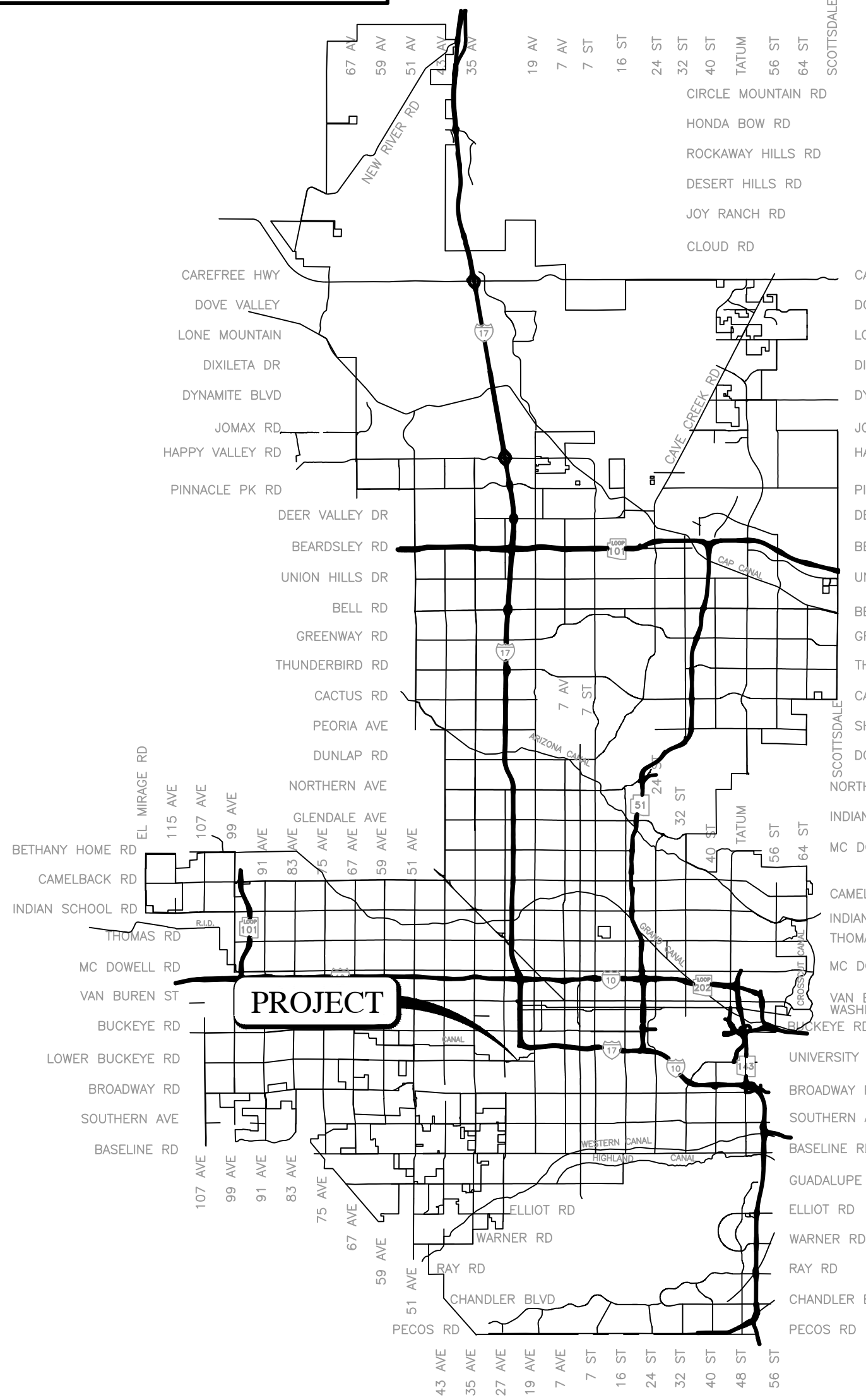
- CITY COUNCIL
- DISTRICT NO. 1 - ANN O'BRIEN
 - DISTRICT NO. 2 - JIM WARING
 - DISTRICT NO. 3 - DEBRA STARK
 - DISTRICT NO. 4 - LAURA PASTOR
 - DISTRICT NO. 5 - BETTY GUARDADO
 - DISTRICT NO. 6 - KEVIN ROBINSON
 - DISTRICT NO. 7 - CARLOS GALINDO-ELVIRA
 - DISTRICT NO. 8 - KESHA HODGE WASHINGTON

CITY MANAGER
JEFF BARTON

CITY ENGINEER
ERIC J. FROBERG, PE

INDEX OF SHEETS

8	COVER SHEET
9	NOTES
10	LEGEND & ABBREVIATIONS
11	QUANTITIES
12	GEOMETRIC CONTROL
13	DRAINAGE PLAN
14	LATERAL PROFILES



VICINITY MAP
NTS



2024

LENGTH OF PROJECT:
NA

AREA OF DISTURBANCE:
23,060 SQUARE FEET

BENCHMARK
CITY OF PHOENIX BENCHMARK #292, A 3-INCH CITY OF PHOENIX BRASS CAP IN HANDHOLE, LOCATED AT THE INTERSECTION OF 27TH AVENUE AND LOWER BUCKEYE ROAD, HAVING AN ELEVATION OF 1047.915', CITY OF PHOENIX NGVD29 DATUM.

APPROVALS

Eric J Froberg 10/18/24
ERIC J FROBERG, PE CITY ENGINEER DATE

Nazar Nabaty 10/18/2024
NAZAR NABATY, PE FLOODPLAIN ADMINISTRATOR DATE

ENGINEER & SURVEYOR

WOOD, PATEL & ASSOCIATES, INC.
2051 WEST NORTHERN AVE, SUITE 100
PHOENIX, ARIZONA 85021

PHONE: (602) 335-8500
FAX: (602) 335-8523
CONTACT: JEFF MINCH, PE, CFM
jminch@woodpatel.com

BASIS OF BEARING

NATIONAL GEODETIC SURVEY (NGS) GEODETIC NORTH BASED ON:
ON-LINE POSITIONING USER SERVICE (OPUS) PROVIDED BY THE
NGS WEBSITE www.ngs.noaa.gov, OPUS RESULTS ON MARCH 16,
2023.

PROJECTION: ARIZONA CENTRAL ZONE, NAD 83,
(EPOCH 2010)
DATUM: GRS-80
UNITS: INTERNATIONAL FEET
GEOID MODEL: GEOID 2018

SOLUTION: 00720680.23o OP1678995015194
LATITUDE: 33° 25' 24.65130" N
LONGITUDE: 112° 06' 26.38256" W
ELLIPSOID HEIGHT: 291.813 (METERS)
DESCRIPTION: WOODPATEL CONTROL POINT 100
SET PK NAIL ON PAVEMENT

MODIFIED TO GROUND AT (GRID)
N: 881674.252 E: 641828.785, USING SCALE FACTOR OF 1.0001419518

PUBLIC UTILITIES

WATER CITY OF PHOENIX
SEWER CITY OF PHOENIX
ELECTRIC SRP & APS
TELEPHONE CENTURYLINK
GAS SOUTHWEST GAS
CABLE TV COX COMMUNICATIONS
WASTE DISPOSAL CITY OF PHOENIX

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COVER

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE
MITIGATION PROGRAM
22ND AVENUE & LOWER BUCKEYE ROAD

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET	TOTAL	AS
DATE: 8/24	DATE: 8/24	DATE: 8/24	NO:	SHEETS:	BUILT:
			8	42	

QS	7-24
----	------

REVISION BY CITY OF PHOENIX

DESCRIPTION	REV BY	CHK BY	DATE
NO			

REVISION BY CITY OF PHOENIX

DESCRIPTION	REV BY	CHK BY	DATE
NO			

REVISION BY CITY OF PHOENIX

DESCRIPTION	REV BY	CHK BY	DATE
NO			

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

- A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- PLANNING AND DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- STAKING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUB-CONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- PER SECTION 6.8.7 OF THE CITY OF PHOENIX STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1.
- ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING AND DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS. USE PERMIT IS REQUIRED FOR ALL OVER-HEIGHT RETAINING WALLS.
- ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH)
- PLAN APPROVAL IS VALID FOR 12 MONTHS. 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.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRY WELLS SHOWN ON THE GRADING AND DRAINAGE PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-4686.



FEDERAL REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140112	9	42

WOOD PATEL
Wood, Patel & Assoc., Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

- DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE GRADING AND DRAINAGE INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.
- THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.

CITY OF PHOENIX OFFSITE NOTES

- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATION AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATION AND DETAILS.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX, PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL 9-1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- TREES AND SHRUBBERY IN THE RIGHT OF WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501 AND TRANSPORTATION DEPARTMENT AT (602) 534-9898.
- PER THE CITY OF PHOENIX ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.

CITY OF PHOENIX PAVING NOTES

- ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
- CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.
- THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREETLIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
- AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT- OF- WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF - [HTTPS://WWW.PHOENIX.GOV/STREETS/TRAFFIC-MANAGEMENT](https://www.phoenix.gov/streets/traffic-management)
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).

CITY OF PHOENIX 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 BID.
- 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 P-1576.
- 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 M.A.G. DETAIL 505. 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.
- THE CONTRACTOR SHALL CONFIRM EXISTING PIPE MATERIAL AT DESIGNATED CONNECTION POINTS PRIOR TO ORDERING ANY FITTINGS.
- 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.
- TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ARIZONA 811 TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON ARIZONA 811 SYSTEM.
- VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29
- 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 P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.
- UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:
- 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.
- UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.
- EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.
- M.A.G. ALLEY ENTRANCE DETAILS 260, 261, 262 AND 263, WHICH ARE INDICATED TO BE MODIFIED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL NUMBER EXCEPT THAT THE SLAB SHALL BE 9" THICK. DRIVEWAYS DESIGNATED ON THE PLANS AS M.A.G. DETAILS 250 AND 251 SHALL BE RESIDENTIAL DRIVEWAYS 5" THICK. ALL OTHER DRIVEWAYS SHALL BE CITY OF PHOENIX DETAILS P1255.
- CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561.

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

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.

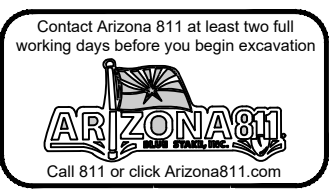
NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
22ND AVENUE & LOWER BUCKEYE ROAD

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	9	42	

SCALE:

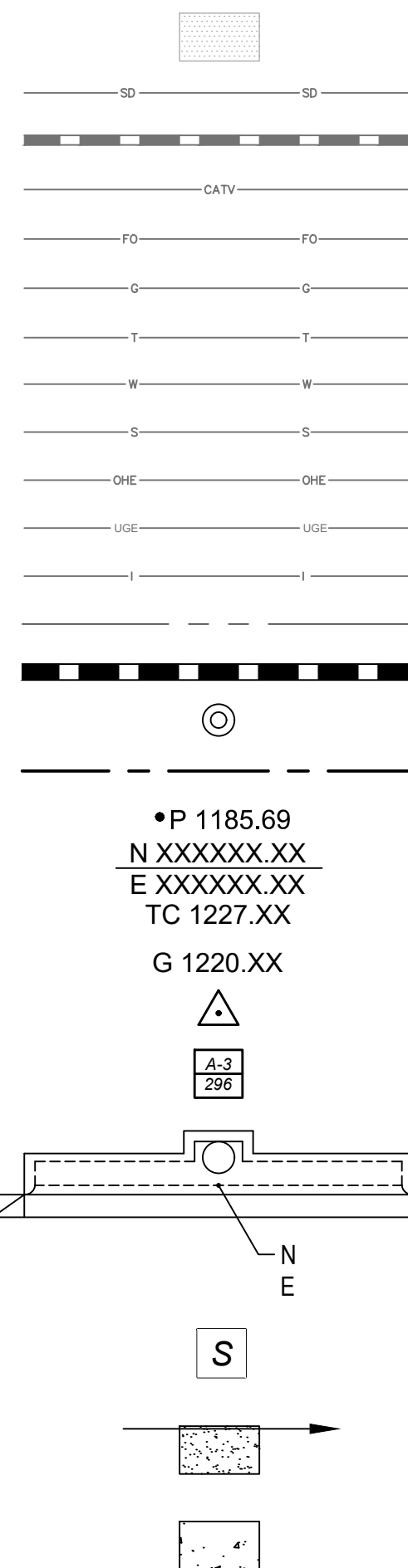


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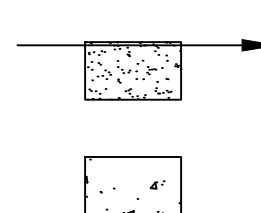
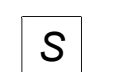
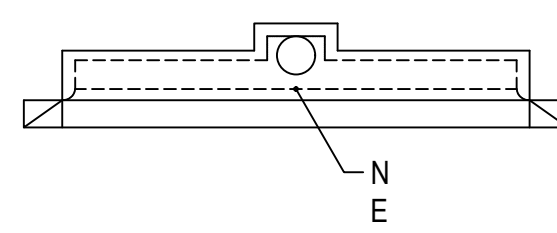
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REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

LEGEND



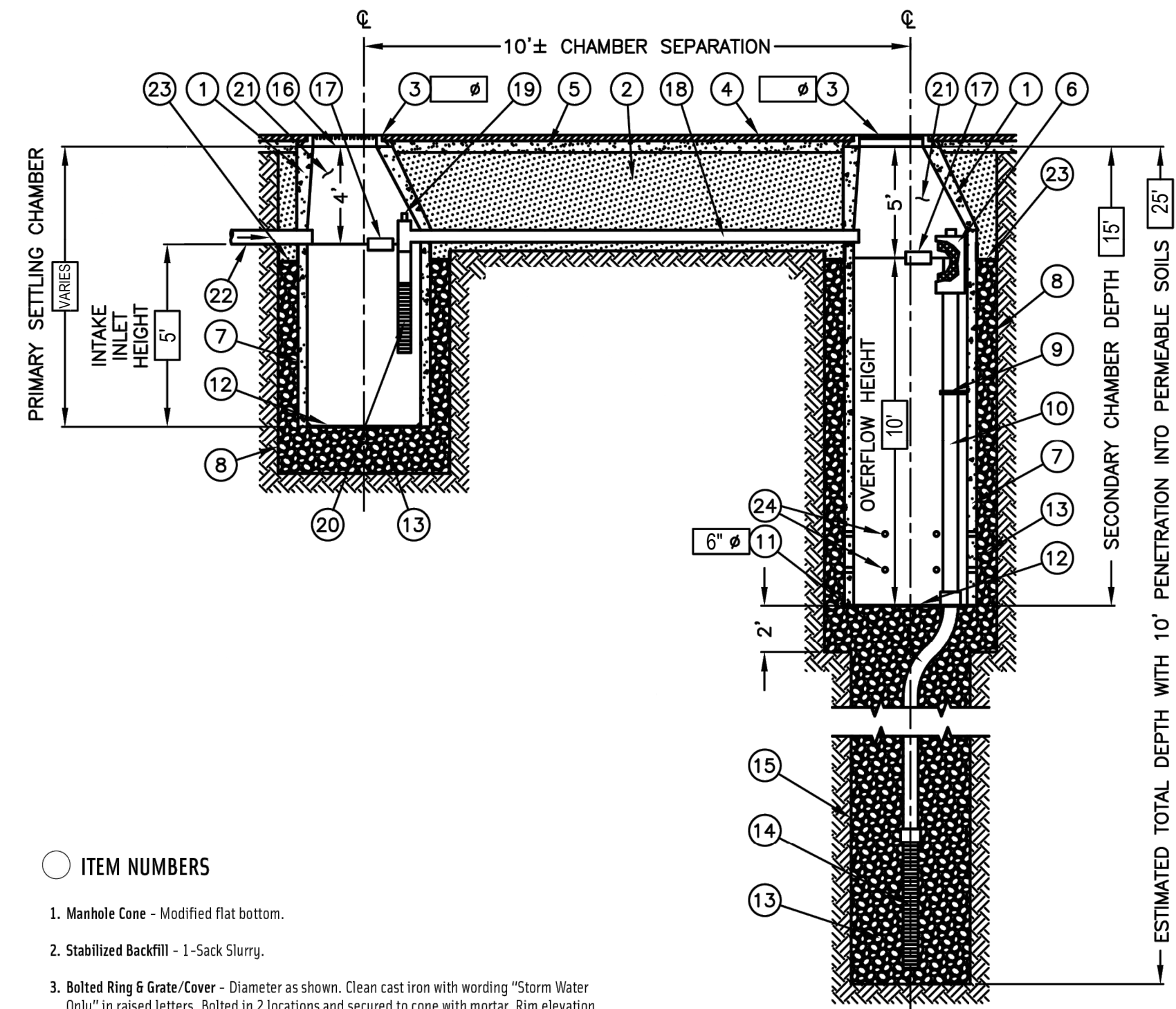
• P 1185.69
N XXXXX.XX
E XXXXX.XX
TC 1227.XX
G 1220.XX



- EXISTING CONCRETE
- EXISTING STORM DRAIN
- EXISTING STORM DRAIN (>12")
- EXISTING CABLE TV LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- EXISTING TELEPHONE LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING IRRIGATION LINE
- APPROX PROPERTY LINE
- PROPOSED STORM DRAIN
- PROPOSED STORM DRAIN MANHOLE
- MONUMENT LINE
- PROPOSED PAVEMENT ELEVATION
- PROPOSED NORTHING AND EASTING
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED GUTTER ELEVATION
- PROJECT BENCHMARK
- BACKFILL TYPE & SQ YD PVMT REPLACEMENT
- COP DETAIL P-1200 AND SPECIAL PROVISIONS
- NEW CATCH BASIN CURB & GUTTER INLET
- COORDINATES TO CENTERLINE OF MAINTENANCE BASIN
- AT BACK OF CURB
- SAWCUT
- DRAINAGE DIRECTION SLOPE ARROW
- PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT
- PROPOSED GRAVEL MULCH

ABBREVIATIONS

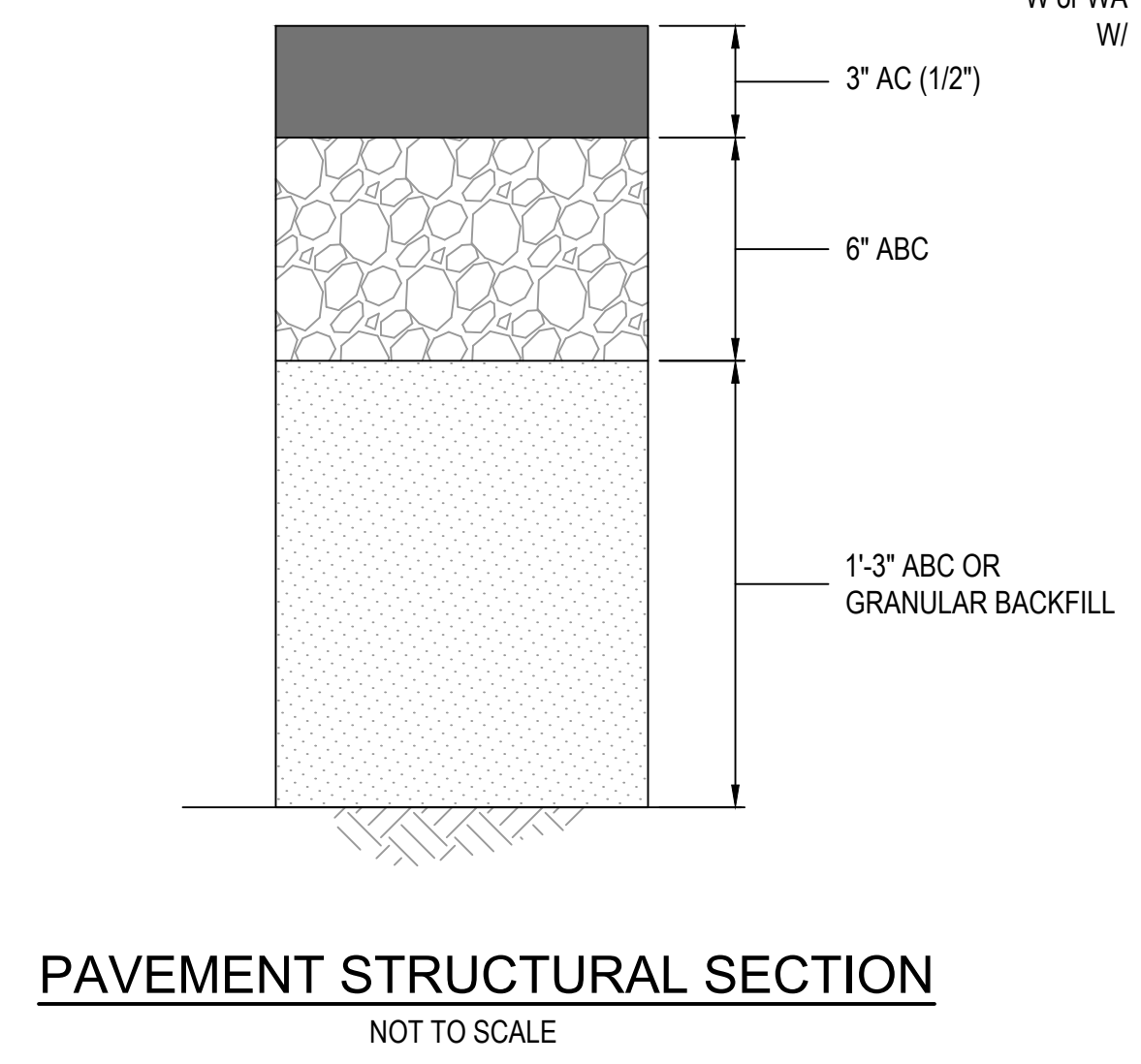
- AC ASPHALT CONCRETE
- APPROX APPROXIMATELY
- AVE AVENUE
- B/C BACK OF CURB
- BCF BRASS CAP FLUSH
- BCH BRASS CAP HANDHOLE
- CCP CYLINDRICAL CONCRETE PIPE
- CIP CAST-IN-PLACE
- CL CENTER LINE
- CONC CONCRETE
- COP CITY OF PHOENIX
- CST CONSTRUCTION
- CATV CABLE TV
- DIP DUCTILE IRON PIPE
- E/P EDGE OF PAVEMENT
- ELEV ELEVATION
- EST ESTIMATED
- EX EXISTING
- FO FIBER OPTIC
- FT FEET / FOOT
- G GUTTER
- GB GRADE BREAK
- HORZ HORIZONTAL
- IN INCH
- LF LINEAR FEET
- MAG MARICOPA ASSOCIATION OF GOVERNMENTS
- ML MONUMENT LINE
- NTS NOT TO SCALE
- PH# POTHOLE NUMBER
- PIP PROTECT IN PLACE
- PL PLACE
- PR PROPOSED
- RCBC REINFORCED CONCRETE BOX CULVERT
- RCP REINFORCED CONCRETE PIPE
- REL RELOCATE
- RD ROAD
- RGRCP CL III RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS III
- RGRCP CL IV RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS IV
- RJ RESTRAINED JOINT
- ROW RIGHT OF WAY
- S SEWER
- S/W SIDEWALK
- SD STORM DRAIN
- SS SANITARY SEWER
- ST STREET
- STL STEEL
- T TELECOMMUNICATIONS
- T-ABAND TELECOMMUNICATIONS - ABANDONED
- T-CABLE TELECOMMUNICATIONS - CABLE
- T-DUCT TELECOMMUNICATIONS - DUCT
- TC TOP OF CURB
- TYP TYPICAL
- VERT VERTICAL
- VG VALLEY GUTTER
- W or WA WATER
- W WITH



ITEM NUMBERS

1. Manhole Cone - Modified flat bottom.
2. Stabilized Backfill - 1-Sack Slurry.
3. Bolted Ring & Grate/Cover - Diameter as shown. Clean cast iron with wording "Storm Water Only" in raised letters. Bolted in 2 locations and secured to cone with mortar. Rim elevation +0.02' of plans.
4. Graded Basin or Paving (by Others).
5. Compacted Base Material (by Others).
6. PureFlo® Debris Shield - Rolled 16 Ga. steel X 24" length with vented anti-siphon and internal .265" Max. SWO flattened expanded steel screen X 12" length. Fusion bonded epoxy coated.
7. Pre-cast Liner - 4000 PSI concrete 48" ID, X 54" OD. Center in hole and align sections to maximize bearing surface.
8. Min. 6" Ø Drilled Shaft.
9. Support Bracket - Formed 12 Ga. steel. Fusion bonded epoxy coated.
10. Overflow Pipe - Sch. 40 PVC mated to drainage pipe at base seal.
11. Drainage Pipe - ADS highway grade with TRI-A coupler. Suspend pipe during backfill operations to prevent buckling or breakage. Diameter as noted.
12. Base Seal - Geotextile or concrete slurry.
13. Rock - Washed, sized between 3/8" and 1-1/2" to best complement soil conditions.
14. FloFast® Drainage Screen - Sch. 40 PVC 0.120" slotted well screen with 32 slots per row/ft. Diameter varies 120" overall length with TRI-B coupler.
15. Min. 4" Ø Shaft - Drilled to maintain permeability of drainage soils.
16. Fabric Seal - U.V. Resistant Geotextile - To be removed by customer at project completion.
17. Absorbent - Hydrophobic Petrochemical Sponge. Min 128 oz. capacity.
18. Connector Pipe - 4" Ø Sch. 40 PVC.
19. Anti-Siphon Vent with flow regulator.
20. Intake Screen - Sch. 40 PVC 0.120" modified slotted well screen with 32 slots per row/ft. 48" overall length with TRI-C end cap.
21. Freeboard Depth Varies with inlet pipe elevation. Increase primary/secondary settling chamber depths as needed to maintain all inlet pipe elevations above connector pipe overflow.
22. Optional Inlet Pipe (by Others).
23. Moisture Membrane - 6 mil. Plastic. Place securely against eccentric cone and hole sidewall. Used in lieu of slurry in landscaped areas.
24. Eight - (8) perforations per foot, 2 row minimum.

DRYWELL DETAIL
NOT TO SCALE



PAVEMENT STRUCTURAL SECTION
NOT TO SCALE

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DETAILS, LEGEND & ABBREVIATIONS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
22ND AVENUE & LOWER BUCKEYE ROAD



DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24		10	42

SCALE: 10 42



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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM

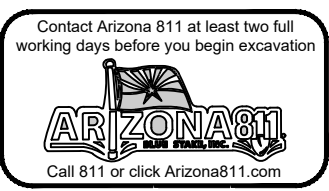
	STATE ARIZ	PROJECT NO ST83140112	NO 11	TOTAL 42
 Wood, Patel & Assoc., Inc. Civil Engineering Water Resources Land Survey Construction Management 602.335.8500 www.woodpatel.com				

ITEM NO.	DESCRIPTION	UNIT	TOTAL
M3001001	SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT	SY	2,566
M3100000	AGGREGATE BASE COURSE	SY	2,566
M3210230	ASPHALT CONCRETE SURFACE COURSE, TYPE C3/4, 3" THICK	SY	2,566
M3500404	REMOVE EXISTING LIGHT POLES AND ELECTRIC CONDUIT/SERVICE TO ACCOMMODATE VAULT CONSTRUCTION STORE ON SITE AND REPLACE PRIOR TO PAVING.	EA	2
M5051016	PRECAST CONCRETE MODULAR VAULT DRAINAGE STORAGE SYSTEM	CF	31,869
M5051504	CONCRETE CATCH BASIN, TYPE "G", DOUBLE GRATE, MAG DETAIL 537	EA	3
M5051508	CONCRETE CATCH BASIN, TYPE "H", DOUBLE GRATE, MAG DETAIL 538	EA	4
M6180004	4" STORM SEWER PIPE - SCH. 40 PVC FROM PRIMARY SETTLING CHAMBER TO EX DRY WELL	LF	79
M6180015	15" STORM SEWER PIPE	LF	70
M6180024	24" STORM SEWER PIPE	LF	112
M6186905	24" - 22 1/2 DEGREE PREFABRICATED BEND	EA	2
M6259000	DRY WELL PER DETAIL ON SHEET 10	EA	2
M6259001	DRY WELL PRIMARY CHAMBER PER DETAIL ON SHEET 10	EA	1
M6259002	PERFORM MAINTENANCE SERVICE ON EXISTING DRY WELLS	EA	3

REVISION BY CITY OF PHOENIX		
NO	DESCRIPTION	REV BY / CKD BY / DATE

REVISION BY CITY OF PHOENIX		
NO	DESCRIPTION	REV BY / CKD BY / DATE

REVISION BY CITY OF PHOENIX		
NO	DESCRIPTION	REV BY / CKD BY / DATE



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QUANTITIES					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE MITIGATION PROGRAM					
22ND AVENUE & LOWER BUCKEYE ROAD					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	11	42	
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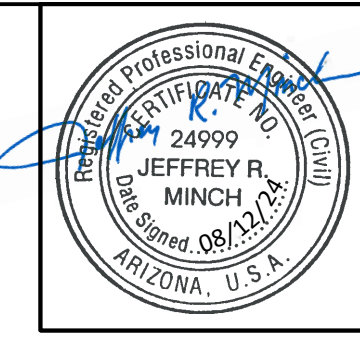
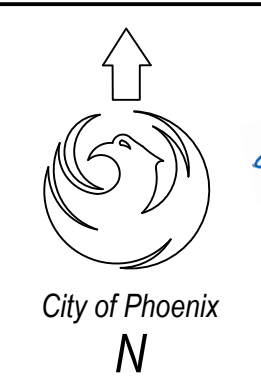
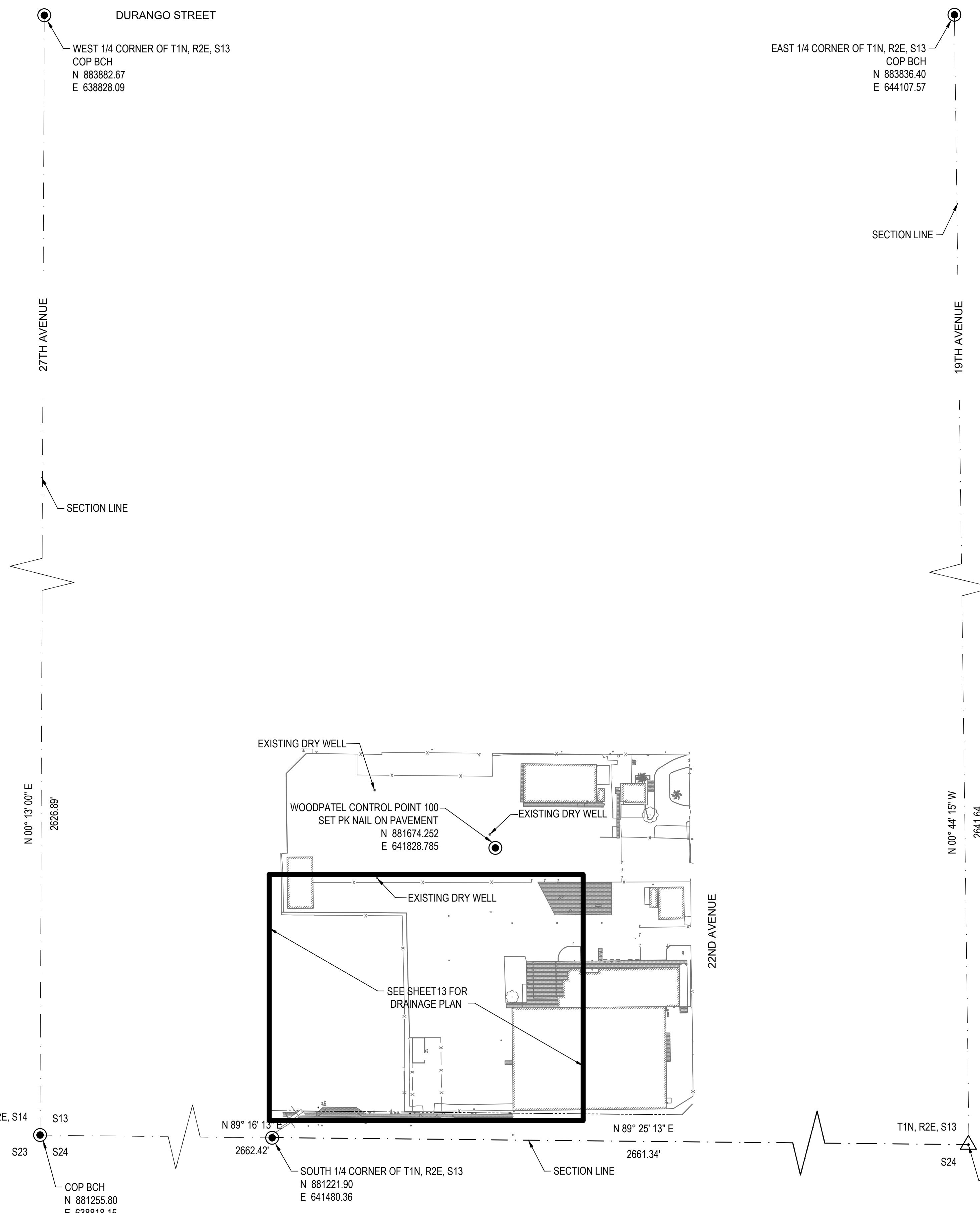
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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM

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NO	DESCRIPTION	REV BY	CKD BY	DATE

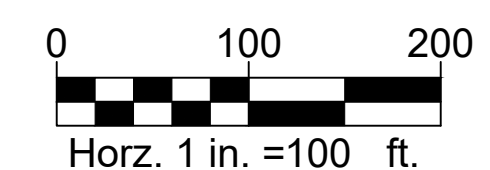
NO	DESCRIPTION	REV BY	CKD BY	DATE



FEDERAL REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140112	12	42

WOOD PATEL

Wood, Patel & Assoc., Inc.
 Civil Engineering
 Water Resources
 Land Survey
 Construction Management
 602.335.8500
 www.woodpatel.com

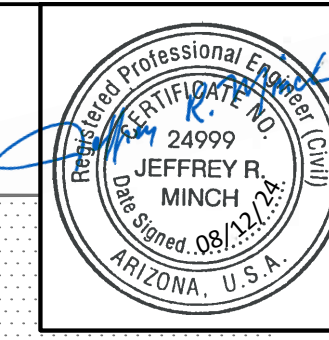
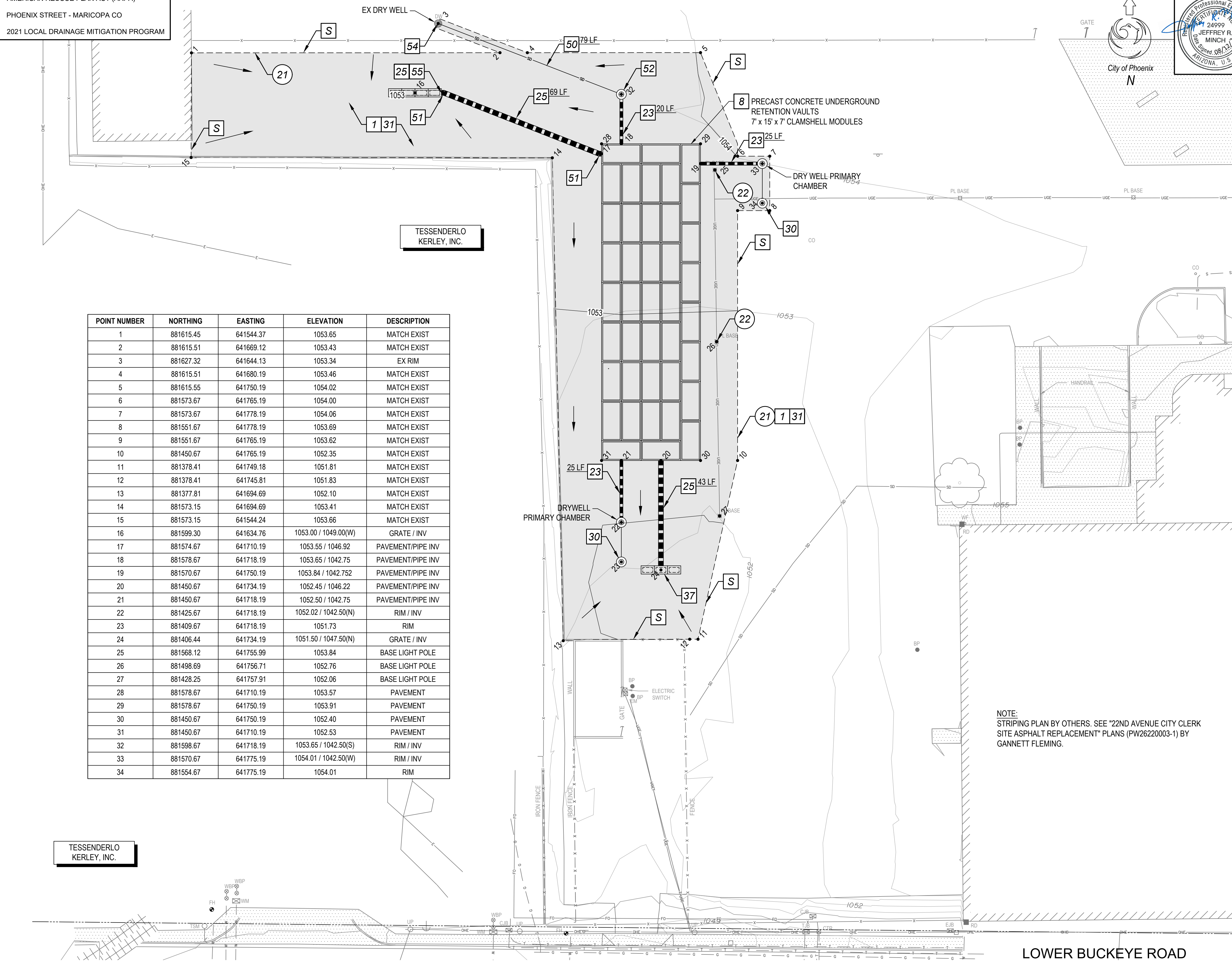


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GEOMETRIC CONTROL					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE MITIGATION PROGRAM					
22ND AVENUE & LOWER BUCKEYE ROAD					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	NO:	42	
SCALE: 1" = 100'			12	42	

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM



AREA REGION	STATE	PROJECT NO	NO	TOTAL
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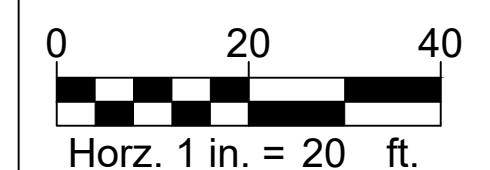
WOOD PATEL & ASSOC., INC.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

REMOVAL & CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
21	SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT (M3001001)	SY	2,566
22	REMOVE EXISTING LIGHT POLES AND ELECTRIC CONDUIT/SERVICE TO ACCOMMODATE VAULT CONSTRUCTION, STORE ON SITE AND REPLACE PRIOR TO PAVING. (M3500404)	EA	2
1	ASPHALT CONCRETE SURFACE COURSE, TYPE C3/4, 3" THICK (M3210230)	SY	2,566
8	PRECAST CONCRETE MODULAR VAULT DRAINAGE STORAGE SYSTEMS (M5051016)	CF	31,869
23	15" STORM SEWER PIPE (RGRCP, CLASS III) (M6180015)	LF	70
25	24" STORM SEWER PIPE (RGRCP CLASS III) (M6180024)	LF	112
30	DRY WELL PER DETAIL ON SHEET 10 (M6259000)	EA	2
31	AGGREGATE BASE COURSE, 1'-9" THICK (M31000000)	SY	2,566
37	CONCRETE CATCH BASIN, TYPE "G" DOUBLE GRATE, MAG DETAIL 537 (M5051504)	EA	3
50	4" STORM SEWER PIPE - SCH. 40 PVC FROM PRIMARY SETTLING CHAMBER TO EX DRY WELL (M6180004)	LF	79
51	24" - 22 1/2 DEGREE PREFABRICATED BEND (M6186905)	EA	2
52	DRY WELL PRIMARY CHAMBER PER DETAIL ON SHEET 3 (M6259001)	EA	1
54	PERFORM MAINTENANCE SERVICE ON EXISTING DRY WELLS (SEE SHEET 10 FOR DRY WELL LOCATIONS) (M3517010)	EA	3
55	CONCRETE CATCH BASIN, TYPE "H" DOUBLE GRATE, MAG DETAIL 538 (M5051508)	EA	4

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	881615.45	641544.37	1053.65	MATCH EXIST
2	881615.51	641669.12	1053.43	MATCH EXIST
3	881627.32	641644.13	1053.34	EX RIM
4	881615.51	641680.19	1053.46	MATCH EXIST
5	881615.55	641750.19	1054.02	MATCH EXIST
6	881573.67	641765.19	1054.00	MATCH EXIST
7	881573.67	641778.19	1054.06	MATCH EXIST
8	881551.67	641778.19	1053.69	MATCH EXIST
9	881551.67	641765.19	1053.62	MATCH EXIST
10	881450.67	641765.19	1052.35	MATCH EXIST
11	881378.41	641749.18	1051.81	MATCH EXIST
12	881378.41	641745.81	1051.83	MATCH EXIST
13	881377.81	641694.69	1052.10	MATCH EXIST
14	881573.15	641694.69	1053.41	MATCH EXIST
15	881573.15	641544.24	1053.66	MATCH EXIST
16	881599.30	641634.76	1053.00 / 1049.00(W)	GRATE / INV
17	881574.67	641710.19	1053.55 / 1046.92	PAVEMENT/PIPE INV
18	881578.67	641718.19	1053.65 / 1042.75	PAVEMENT/PIPE INV
19	881570.67	641750.19	1053.84 / 1042.752	PAVEMENT/PIPE INV
20	881450.67	641734.19	1052.45 / 1046.22	PAVEMENT/PIPE INV
21	881450.67	641718.19	1052.50 / 1042.75	PAVEMENT/PIPE INV
22	881425.67	641718.19	1052.02 / 1042.50(N)	RIM / INV
23	881409.67	641718.19	1051.73	RIM
24	881406.44	641734.19	1051.50 / 1047.50(N)	GRATE / INV
25	881568.12	641755.99	1053.84	BASE LIGHT POLE
26	881498.69	641756.71	1052.76	BASE LIGHT POLE
27	881428.25	641757.91	1052.06	BASE LIGHT POLE
28	881578.67	641710.19	1053.57	PAVEMENT
29	881578.67	641750.19	1053.91	PAVEMENT
30	881450.67	641750.19	1052.40	PAVEMENT
31	881450.67	641710.19	1052.53	PAVEMENT
32	881598.67	641718.19	1053.65 / 1042.50(S)	RIM / INV
33	881570.67	641775.19	1054.01 / 1042.50(W)	RIM / INV
34	881554.67	641775.19	1054.01	RIM

NOTE:
STRIPING PLAN BY OTHERS. SEE "22ND AVENUE CITY CLERK SITE ASPHALT REPLACEMENT" PLANS (PW26220003-1) BY GANNETT FLEMING.



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.

DRAINAGE PLAN
22ND AVE & LOWER BUCKEYE RD
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
22ND AVENUE & LOWER BUCKEYE ROAD

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	13	42	

SCALE: 1" = 20'

NO	DESCRIPTION	REV BY	CKD BY	DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE

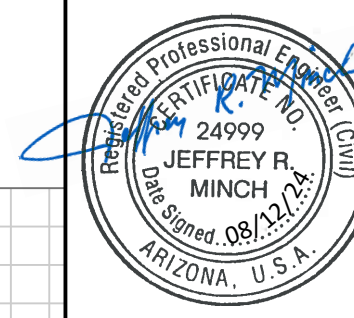
NO	DESCRIPTION	REV BY	CKD BY	DATE

TESSENDERLO KERLEY, INC.

LOWER BUCKEYE ROAD

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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM



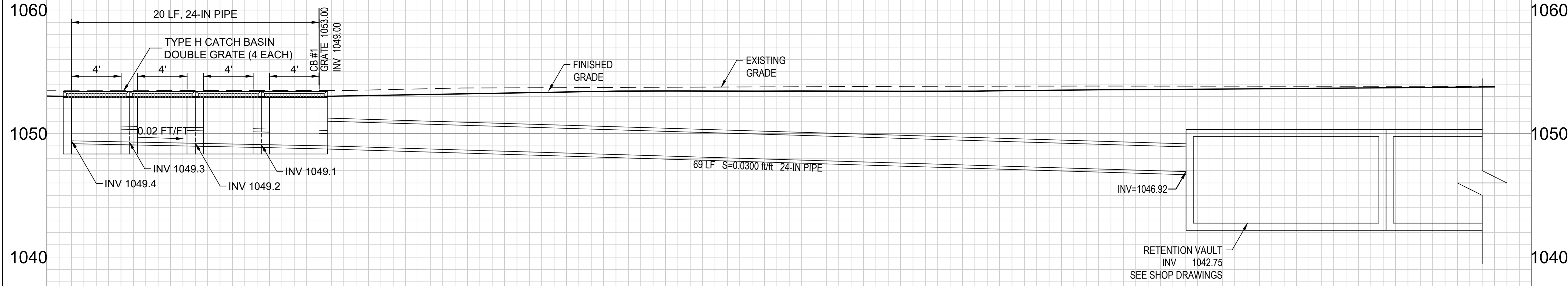
FEDERAL REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140112	14	42

WOOD PATEL
 Wood, Patel & Assoc., Inc.
 Civil Engineering
 Water Resources
 Land Survey
 Construction Management
 602.335.8500
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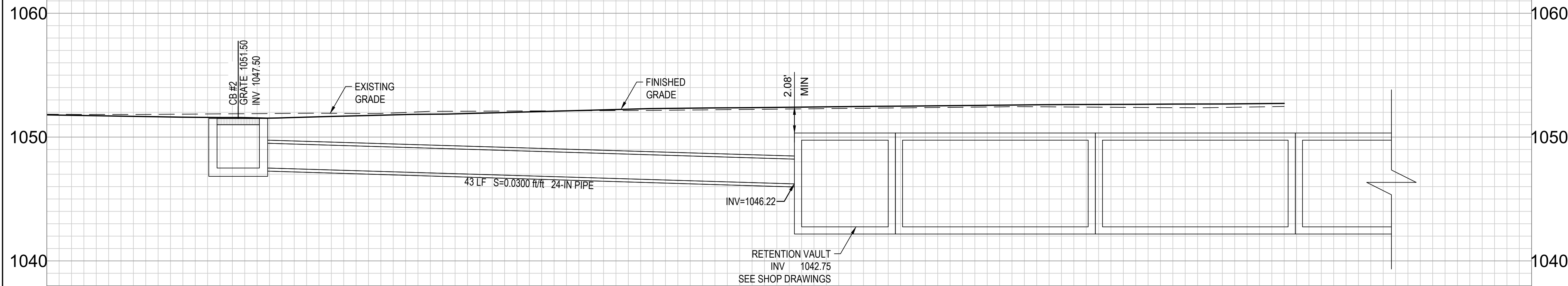
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

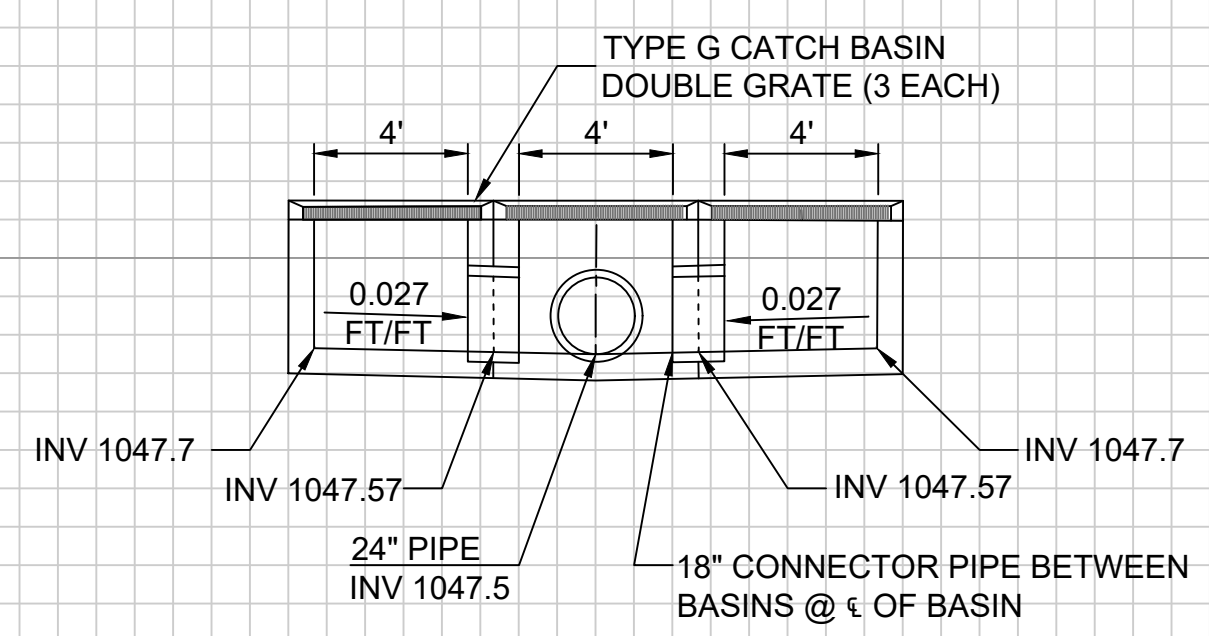
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				



CATCH BASIN 1 & STORM DRAIN LATERAL PROFILE



CATCH BASIN 2 & STORM DRAIN LATERAL PROFILE



CATCH BASIN 2 PROFILE



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.


LATERAL PROFILES
22ND & LOWER BUCKEYE RD
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
22ND AVENUE & LOWER BUCKEYE ROAD

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	NO:	42	
SCALE: 1" = 5'			14	42	

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

PROJ. NO.	ST83140117	NO.	15	TOTAL	42
STATE	ARIZ	 Wood, Patel & Assoc., Inc. Civil Engineering Water Resources Land Survey Construction Management 602.335.8500 www.woodpatel.com			

CITY OF PHOENIX

STREET TRANSPORTATION DEPARTMENT

DESIGN & CONSTRUCTION MANAGEMENT DIVISION

2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 3

18TH ST & PINCHOT AVE DRAINAGE IMPROVEMENTS

ST83140117

MAYOR
KATE GALLEGO

CITY COUNCIL
 DISTRICT NO. 1 - ANN O'BRIEN
 DISTRICT NO. 2 - JIM WARING
 DISTRICT NO. 3 - DEBRA STARK
 DISTRICT NO. 4 - LAURA PASTOR
 DISTRICT NO. 5 - BETTY GUARDADO
 DISTRICT NO. 6 - KEVIN ROBINSON
 DISTRICT NO. 7 - CARLOS GALINDO-ELVIRA
 DISTRICT NO. 8 - KESHA HODGE WASHINGTON

CITY MANAGER
JEFF BARTON

CITY ENGINEER
ERIC J. FROBERG, PE

INDEX OF SHEETS

15	COVER SHEET
16	NOTES
17	LEGEND & ABBREVIATIONS
18	QUANTITIES
19	GEOMETRIC CONTROL
20-24	PIPE PLAN & PROFILE
25	CATCH BASIN LATERAL PROFILES



2024

LENGTH OF PROJECT:
1,753 FEET

AREA OF DISTURBANCE:
7,083 SQUARE FEET

BENCHMARK
THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON CITY OF PHOENIX BENCHMARK #903, A CITY OF PHOENIX BRASS CAP IN NORTH HANDHOLE, LOCATED IN THE INTERSECTION OF 16TH STREET AND OSBORN ROAD, HAVING AN ELEVATION OF 1121.428 FEET CITY OF PHOENIX NGVD29 DATUM.

BASIS OF BEARING
NATIONAL GEODETIC SURVEY (NGS) GEODETIC NORTH BASED ON:
OBTAINED FROM THE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) GEODETIC DENSIFICATION AND CADASTRAL SURVEY (GDACS) WEBSITE www.mcdot.maricopa.gov, UNDER THE SURVEY INFORMATION LINK ON DECEMBER 12, 2013.

PROJECTION: ARIZONA CENTRAL ZONE, NAD 83, (EPOCH 2005)
 DATUM: GRS-80
 UNITS: INTERNATIONAL FEET
 GEOID MODEL: GEOID 12A (CONUS)

CONTROL POINT: 1CG1
 PID: AJ3674
 LATITUDE: 33° 27' 49.01942" N
 LONGITUDE: 111° 59' 56.59504" W
 ELLIPSOID HEIGHT: 321.988 (METERS)
 DESCRIPTION: ALUMINUM CAP ON STAINLESS STEEL ROD IN SLEEVE WITH ACCESS COVER

MODIFIED TO GROUND AT (GRID)
N: 902273.035 E: 660065.973, USING SCALE FACTOR OF 1.0001468048

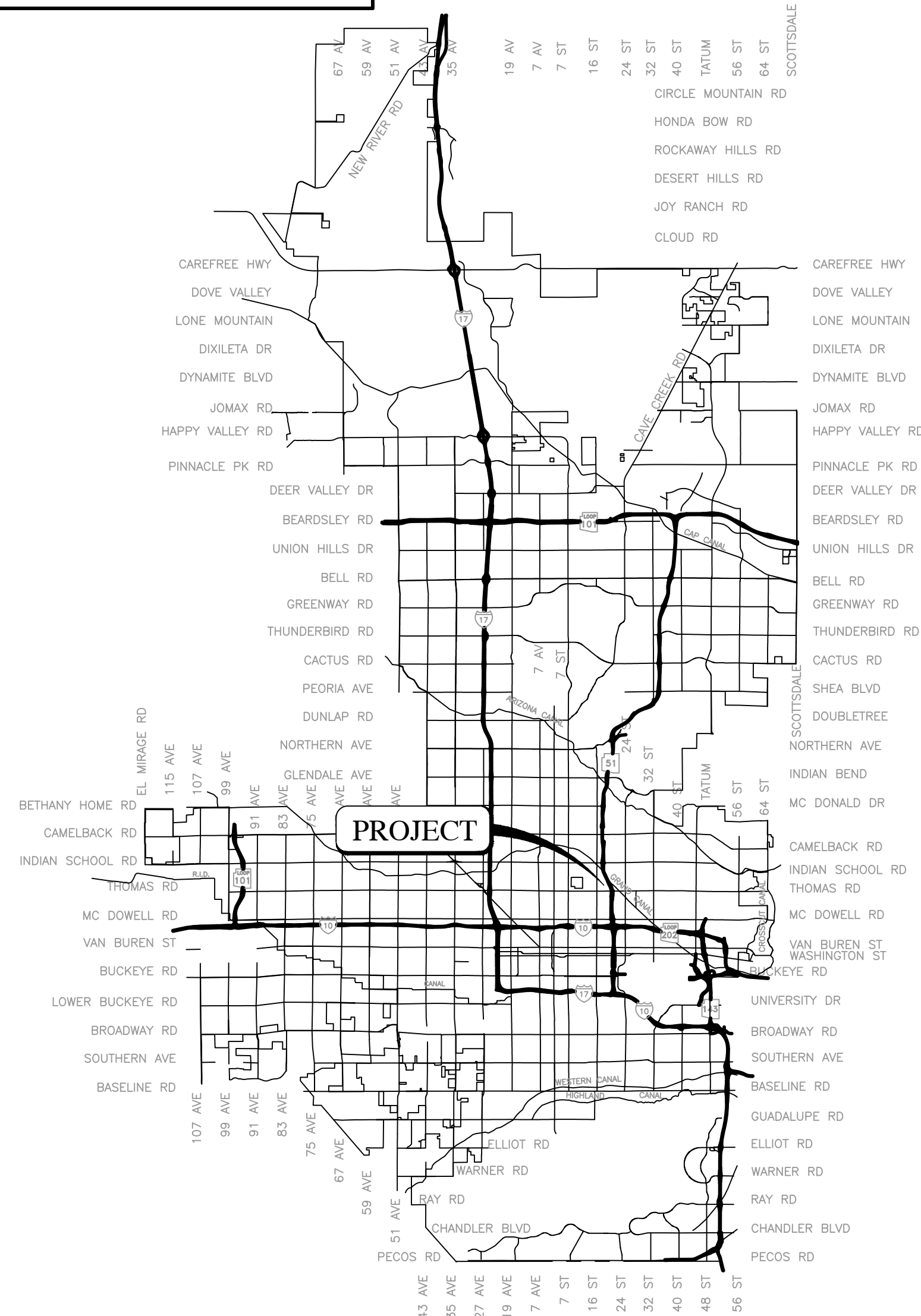
ENGINEER & SURVEYOR

WOOD, PATEL & ASSOCIATES, INC.
2051 WEST NORTHERN AVE, SUITE 100
PHOENIX, ARIZONA 85021

PHONE: (602) 335-8500
 FAX: (602) 335-8523
 CONTACT: JEFF MINCH, PE, CFM
 jminch@woodpatel.com


PUBLIC UTILITIES

WATER	CITY OF PHOENIX
SEWER	CITY OF PHOENIX
ELECTRIC	SRP & APS
TELEPHONE	CENTURYLINK
GAS	SOUTHWEST GAS
CABLE TV	COX COMMUNICATIONS
WASTE DISPOSAL	CITY OF PHOENIX




VICINITY MAP
NTS

APPROVALS


ERIC J. FROBERG, PE CITY ENGINEER

10/18/24
DATE


NAZAR NABATY, PE FLOODPLAIN ADMINISTRATOR

10/18/2024
DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE

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.

COVER
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	NO.	42	
SCALE:			15	42	

QS	15-31
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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

- A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- PLANNING AND DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- STAKING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUB-CONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- PER SECTION 6.8.7 OF THE CITY OF PHOENIX STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1.
- ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING AND DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS. USE PERMIT IS REQUIRED FOR ALL OVER-HEIGHT RETAINING WALLS.
- ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH)
- PLAN APPROVAL IS VALID FOR 12 MONTHS. 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.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRY WELLS SHOWN ON THE GRADING AND DRAINAGE PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-4686.

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

- DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE GRADING AND DRAINAGE INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.
- THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.

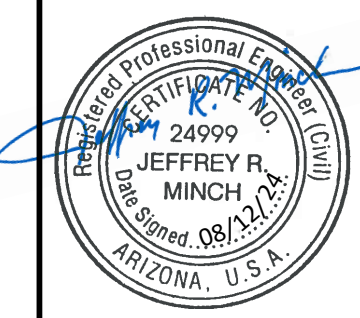
CITY OF PHOENIX OFFSITE NOTES


- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATION AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATION AND DETAILS.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX, PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL 9-1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- TREES AND SHRUBBERY IN THE RIGHT OF WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501 AND TRANSPORTATION DEPARTMENT AT (602) 534-9898.
- PER THE CITY OF PHOENIX ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.

CITY OF PHOENIX PAVING NOTES

- ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
- CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.
- THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREETLIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
- AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT- OF- WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF - [HTTPS://WWW.PHOENIX.GOV/STREETS/TRAFFIC-MANAGEMENT](https://www.phoenix.gov/streets/traffic-management)
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).

PROJ. NO.	STATE	PROJECT NO.	NO.	TOTAL
9	ARIZ	ST83140117	16	42





Wood, Patel & Assoc., Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

REVISION BY CITY OF PHOENIX		REV BY	CKD BY	DATE
NO	DESCRIPTION			

REVISION BY CITY OF PHOENIX		REV BY	CKD BY	DATE
NO	DESCRIPTION			

REVISION BY CITY OF PHOENIX		REV BY	CKD BY	DATE
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NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE


DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24		16	42

SCALE:



AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM

PROJ. NO.	STATE	PROJECT NO.	NO.	TOTAL
ST83140117	ARIZ	ST83140117	17	42



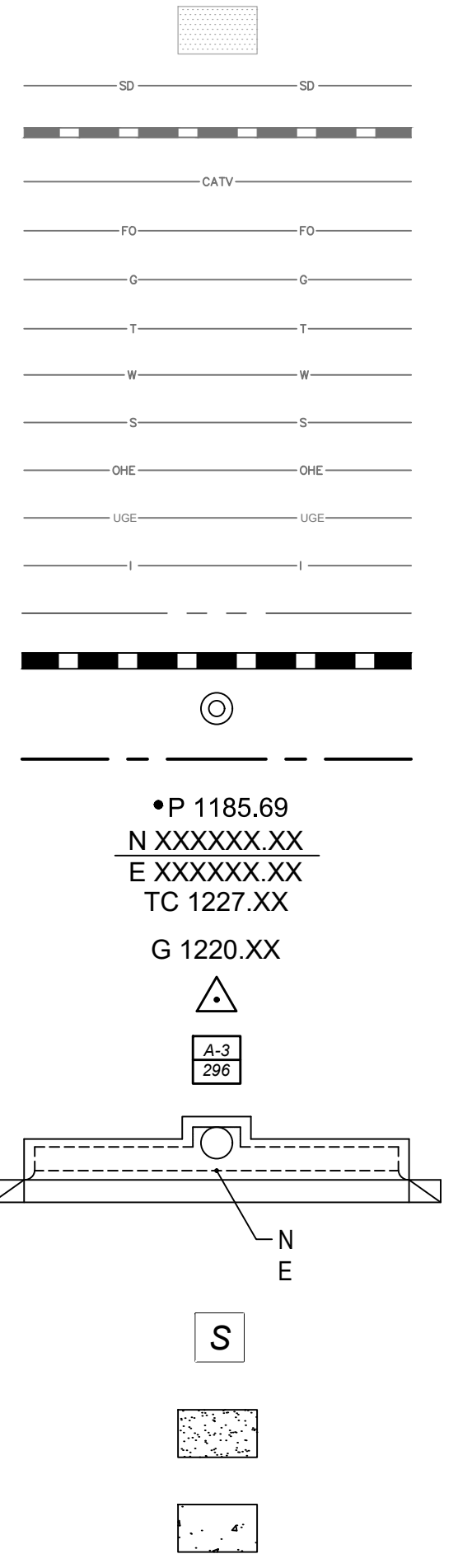
WOOD PATEL

Wood, Patel & Assoc., Inc.

Civil Engineering
 Water Resources
 Land Survey
 Construction Management

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LEGEND



ABBREVIATIONS

AC	ASPHALT CONCRETE
APPROX	APPROXIMATELY
AVE	AVENUE
B/C	BACK OF CURB
BCF	BRASS CAP FLUSH
BCH	BRASS CAP HANDHOLE
CCP	CYLINDRICAL CONCRETE PIPE
CIP	CAST-IN-PLACE
CL	CENTER LINE
CONC	CONCRETE
COP	CITY OF PHOENIX
CST	CONSTRUCTION
CATV	CABLE TV
DIP	DUCTILE IRON PIPE
E/P	EDGE OF PAVEMENT
ELEV	ELEVATION
EST	ESTIMATED
EX	EXISTING
FO	FIBER OPTIC
FT	FEET / FOOT
G	GUTTER
GB	GRADE BREAK
HORZ	HORIZONTAL
IN	INCH
LF	LINEAR FEET
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
ML	MONUMENT LINE
NTS	NOT TO SCALE
PH#	POTHOLE NUMBER
PIP	PROTECT IN PLACE
PL	PLACE
PR	PROPOSED
RCBC	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
REL	RELOCATE
RD	ROAD
RGRCP CL III	RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS III
RGRCP CL IV	RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS IV
RJ	RESTRAINED JOINT
ROW	RIGHT OF WAY
S	SEWER
S/W	SIDEWALK
SD	STORM DRAIN
SS	SANITARY SEWER
ST	STREET
STL	STEEL
T	TELECOMMUNICATIONS
T-ABAND	TELECOMMUNICATIONS - ABANDONED
T-CABLE	TELECOMMUNICATIONS - CABLE
T-DUCT	TELECOMMUNICATIONS - DUCT
TC	TOP OF CURB
TYP	TYPICAL
VERT	VERTICAL
VG	VALLEY GUTTER
W or WA	WATER
WI	WITH

ENGINEER'S NOTES

- CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH FINAL SITE PLAN AND FINAL BUILDING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES TO OWNER'S AGENT.
- COORDINATION BETWEEN ALL PARTIES IS ESSENTIAL PART OF CONTRACT.
- CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS AS THE PROJECT SITE MAY BE LOCATED IN A FLOOD PRONE AREA AND SUBJECT TO FLOODING AND ITS HAZARDS.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE UTILITY CROSSINGS AT CULVERT CROSSINGS BEFORE STARTING WORK ON CULVERT. COORDINATE WITH OWNER REPRESENTATIVE. VERIFY UTILITY LINES AND/OR CONDUITS ARE IN PLACE BEFORE STARTING CULVERT WORK.
- THIS PROJECT REQUIRES A REGULAR ONGOING MAINTENANCE PROGRAM FOR THE DESIGNED DRAINAGE SYSTEM(S) TO PRESERVE THE DESIGN INTEGRITY AND THE ABILITY TO PERFORM ITS OPERATIONAL INTENT. FAILURE TO PROVIDE MAINTENANCE WILL JEOPARDIZE THE DRAINAGE SYSTEM(S) PERFORMANCE AND MAY LEAD TO IT'S INABILITY TO PERFORM PROPERLY AND/OR CAUSE DAMAGE ELSEWHERE IN THE PROJECT.

ENGINEER'S NOTES

- MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTALS THEREOF PER THE LOCAL TOWN OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR ENTIRETY.
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT.
- THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
- THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY AND MIGHT NOT REFLECT THE ACTUAL QUANTITIES AND SITE CONDITIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.

ENGINEER'S NOTES

- A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 811, 48 HOURS PRIOR TO ANY EXCAVATION FOR BLUE STAKE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
- ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT FILL AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL BE AWARE THAT CERTAIN UTILITIES REQUIRE PROPER ATTENTION AND CAREFUL PLANNING DURING SITE CONSTRUCTION. PLEASE NOTE THAT UTILITIES ON THESE PLANS MAY NOT EXHIBIT THE FULL PROTECTIVE COVER REQUIRED DURING THE SUBGRADE PREPARATION PHASE OF THE CONSTRUCTION. IN SUCH INSTANCES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL PROTECTION (SUCH AS RAMPING) OR INCREASED PIPE STRENGTH TO PROVIDE THE NECESSARY PROTECTION REQUIRED TO PREVENT DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL HOLD THE ENGINEER HARMLESS IN ALL CASES FOR DAMAGES TO UTILITIES WHERE INADEQUATE PROTECTIVE MEASURES OCCUR.
- THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.



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.

LEGEND & ABBREVIATIONS

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**2021 LOCAL DRAINAGE
 MITIGATION PROGRAM**
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	17	42	
SCALE:					

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				


REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM

PROJ. REGION 9	STATE ARIZ	PROJECT NO ST83140117	NO 18	TOTAL 42
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WOOD PATEL

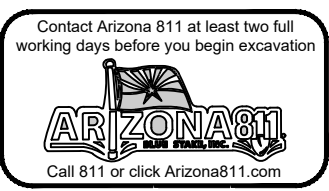
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 Land Survey
 Construction Management
 602.335.8500
 www.woodpatel.com

ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER					TOTAL
			13	14	15	16	17	
M3100000	ASPHALT CONCRETE BASE COURSE, 6" THICK	CY	32	33	21	31	5	122
M3360210	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT	SY				4	6	10
M3369793	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 3" THICK, PER SPECIAL PROVISIONS	SY	167	196	112	176	44	695
M3369796	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS	SY	24		16	9	15	64
M3370102	APPLY CRACK SEAL AND SLURRY SEAL TREATMENT PER MAG SPEC 332, AND SPECIAL PROVISIONS	SY	1,527	1,770	943			4,240
M3370103	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT ER MAG SPEC 331, AND SPECIAL PROVISIONS	SY	388		110	1,752	484	2,734
M3509997	REMOVE MISCELLANEOUS ASPHALT FROM GUTTER	EA				1		1
M5051524	CONCRETE CATCH BASIN, TYPE "M" PHX SUPP DETAIL P1569-1	EA					1	1
M5051535	CONCRETE CATCH BASIN, TYPE "M-1, L=6-FT" PHX SUPP DETAIL P1569-1	EA					1	1
M5051564	CONCRETE CATCH BASIN, TYPE "M-2, L=6-FT AND 3-FT" PHX SUPP DETAIL P1569	EA				1		1
M6180018	18" STORM SEWER PIPE	LF	206	480	280	443	160	1,569
M6180024	24" STORM SEWER PIPE	LF	240					240
M6181505	CONCRETE PIPE COLLAR FOR 18" PIPE AND SMALLER, MAG STANDARD DETAIL 505	EA				2		2
M6250005	STORM SEWER MANHOLE, MAG STANDARD DETAIL 522, COP SUPP. STD. DETAIL P-1520	EA				1	1	2
M6250071	60" STORM DRAIN MANHOLE	EA	2	2	1			5

REVISION BY CITY OF PHOENIX		
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REVISION BY CITY OF PHOENIX		
NO	DESCRIPTION	REV BY / CKD BY / DATE

REVISION BY CITY OF PHOENIX		
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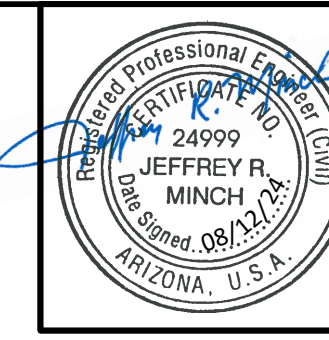


PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

QUANTITIES					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE MITIGATION PROGRAM					
18TH STREET & PINCHOT AVENUE					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	NO:	18	42
SCALE:			18	42	

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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM



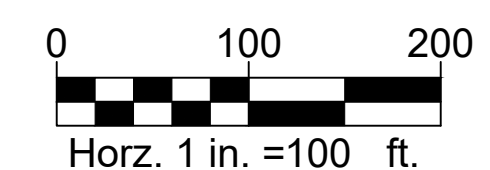
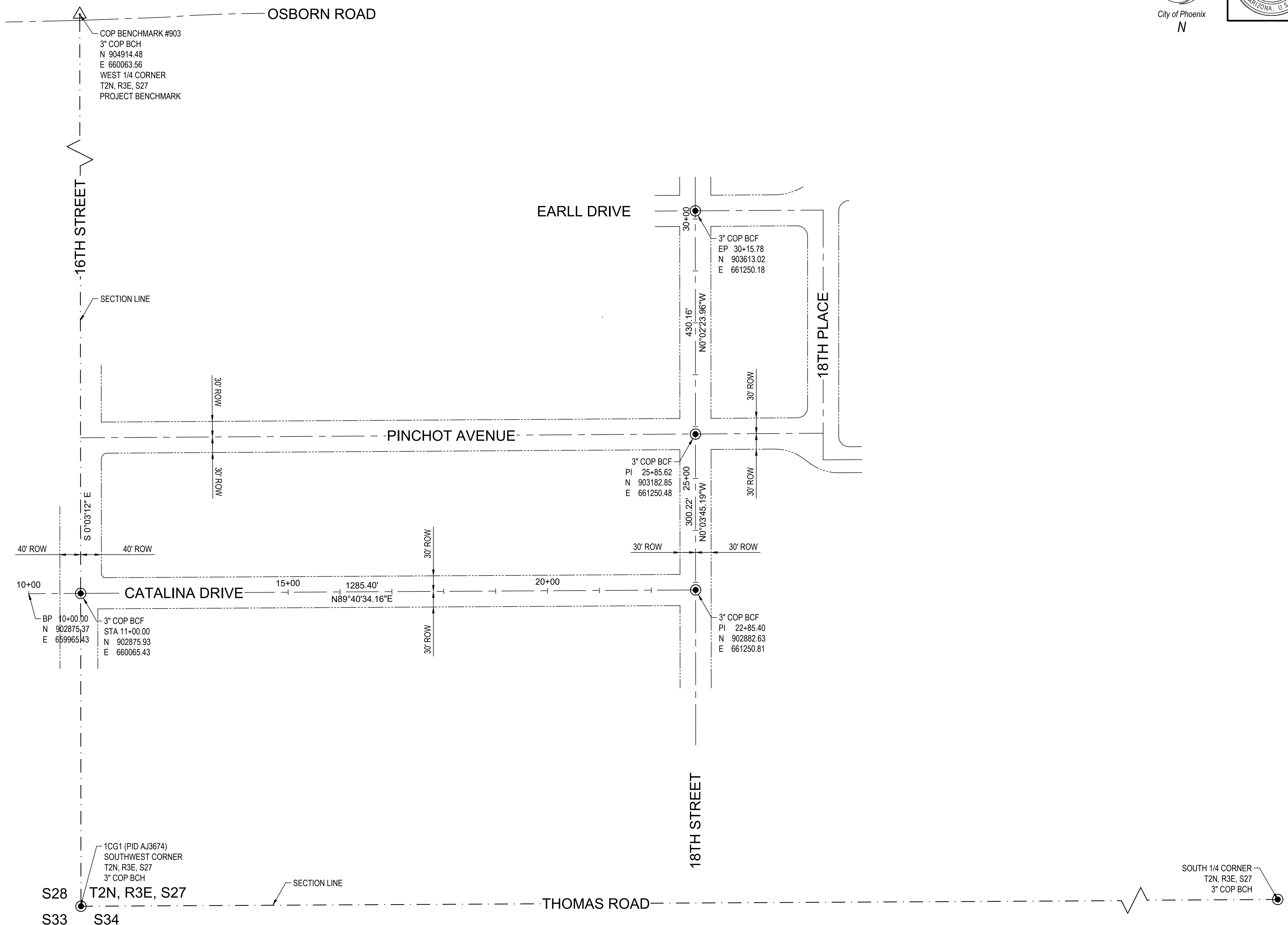
PROJECT NO	NO	TOTAL
ST83140117	19	42

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NO	DESCRIPTION	REV BY	CKD BY	DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE

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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.

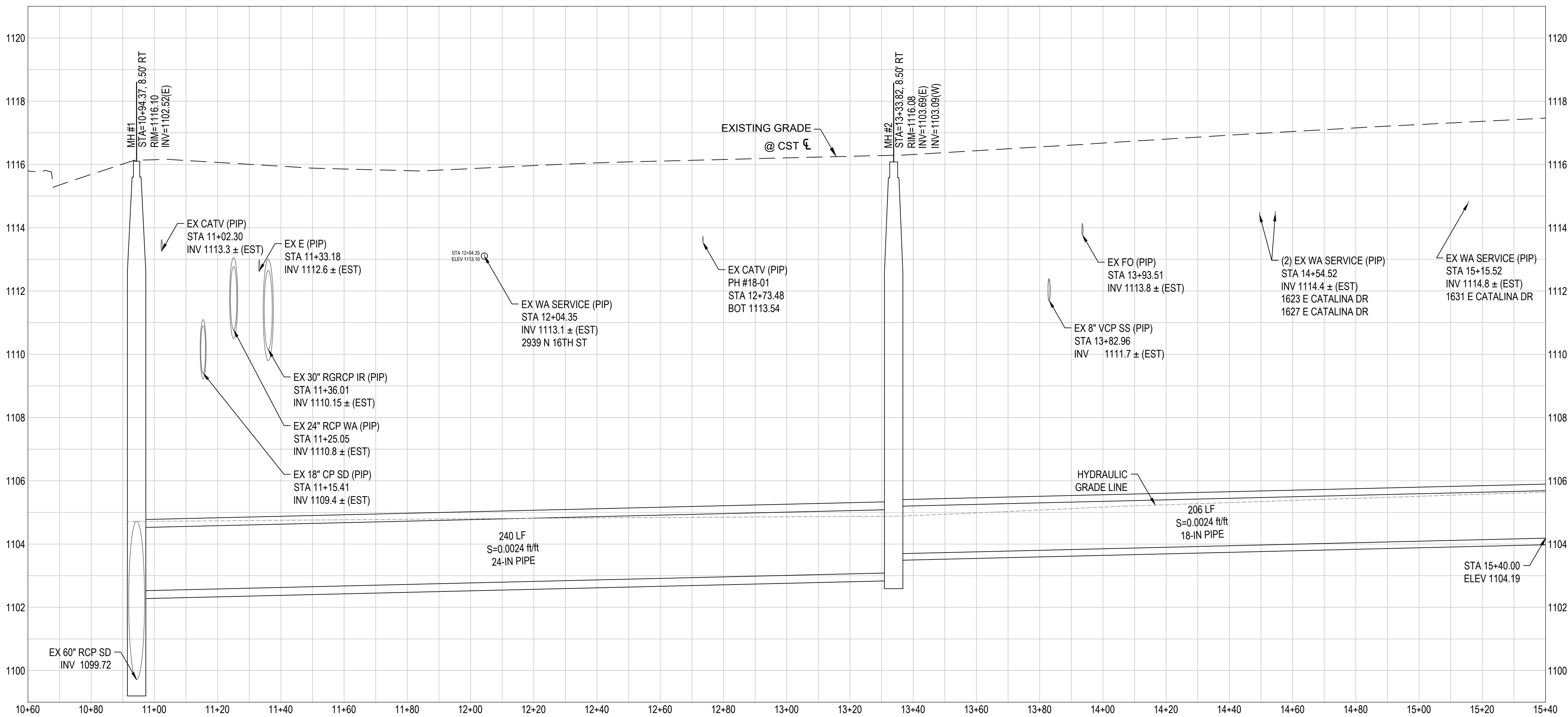
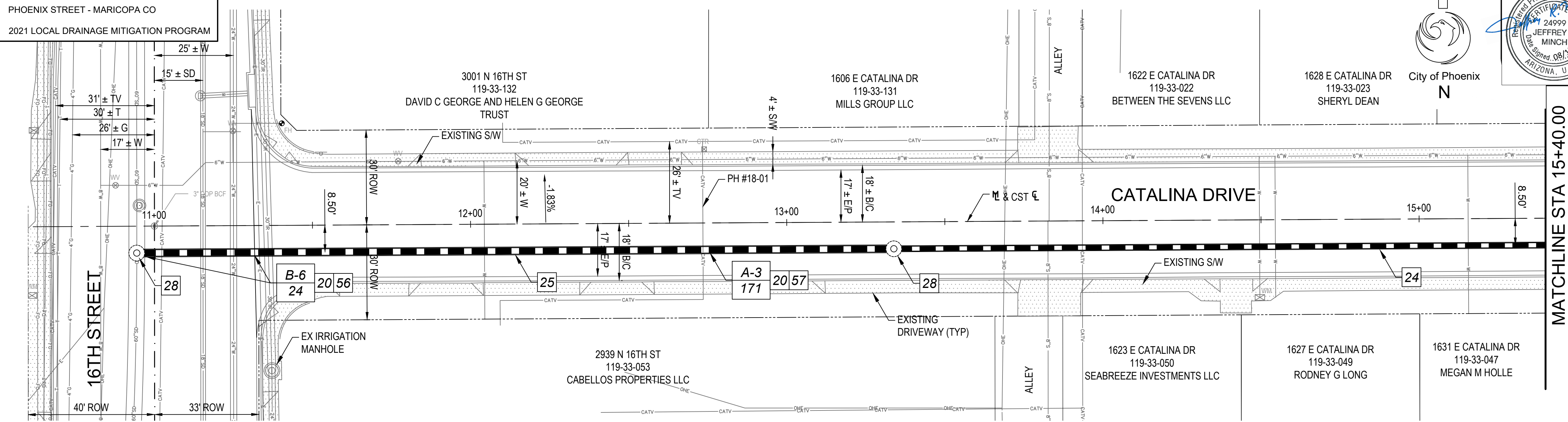
GEOMETRIC CONTROL
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	19	42	

SCALE: 1" = 100'

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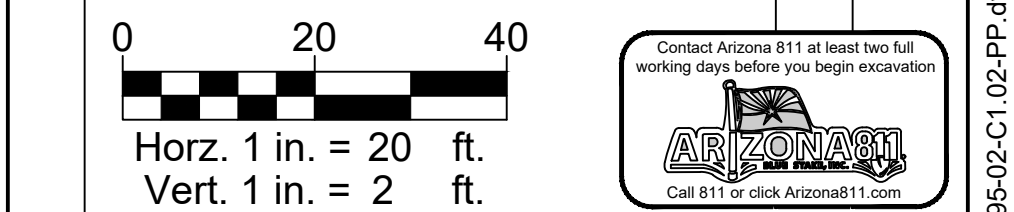
AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM



STATE	PROJECT NO	NO	TOTAL
ARIZ	ST83140117	20	42

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REMOVAL & CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
20	AGGREGATE BASE COURSE, GREATER OF 6" THICK OR MATCH EXIST (M3100000)	CY	32
24	18" STORM SEWER PIPE (M6180018)	LF	206
25	24" STORM SEWER PIPE (RGRCP CLASS III) (M6180024)	LF	240
28	60" STORM DRAIN MANHOLE (M6250005)	EA	2
56	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT PER MAG SPEC 331, AND SPECIAL PROVISIONS (M3370103)	SY	388
57	APPLY CRACK SEAL AND SLURRY SEAL TREATMENT PER MAG SPEC 332, AND SPECIAL PROVISIONS (M3370102)	SY	1527
A-5	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 5" THICK, PER SPECIAL PROVISIONS (M3369795)	SY	167
B-6	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS (M3369796)	SY	24



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PLAN & PROFILE
18TH ST & PINCHOT AVE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	20	42	

SCALE: Horz. 1" = 20' Vert. 1" = 2'

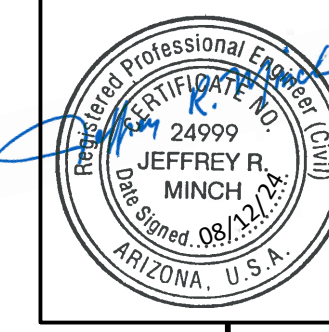
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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM



STATE	PROJECT NO	NO	TOTAL
ARIZ	ST83140117	21	42

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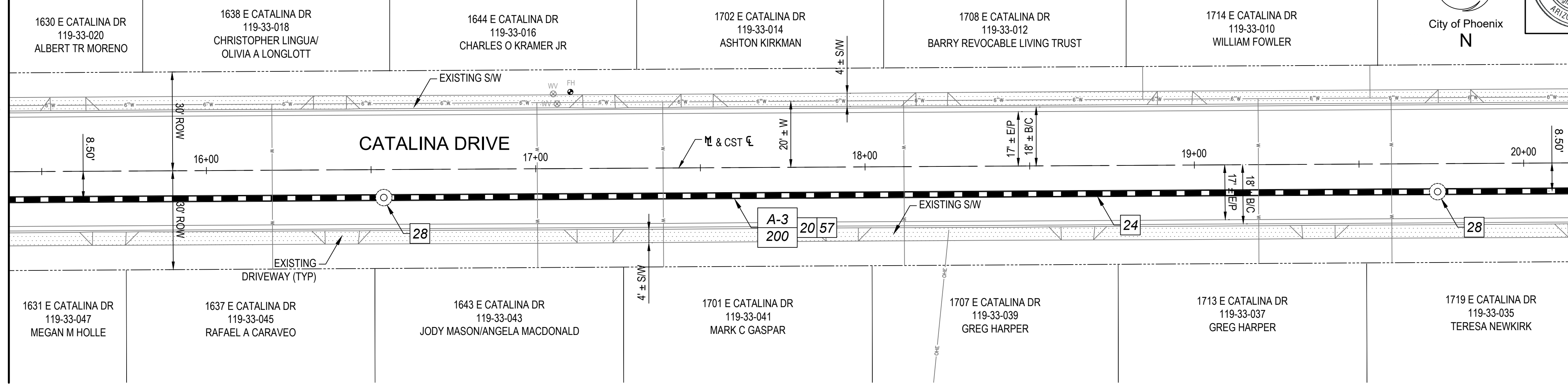
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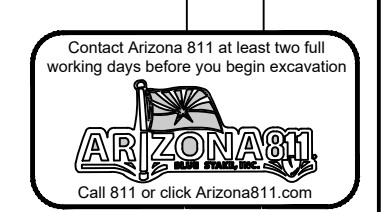
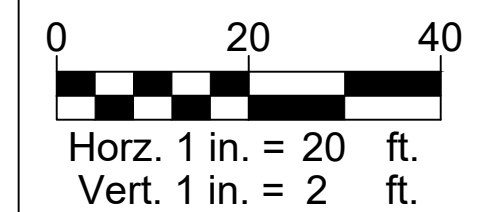
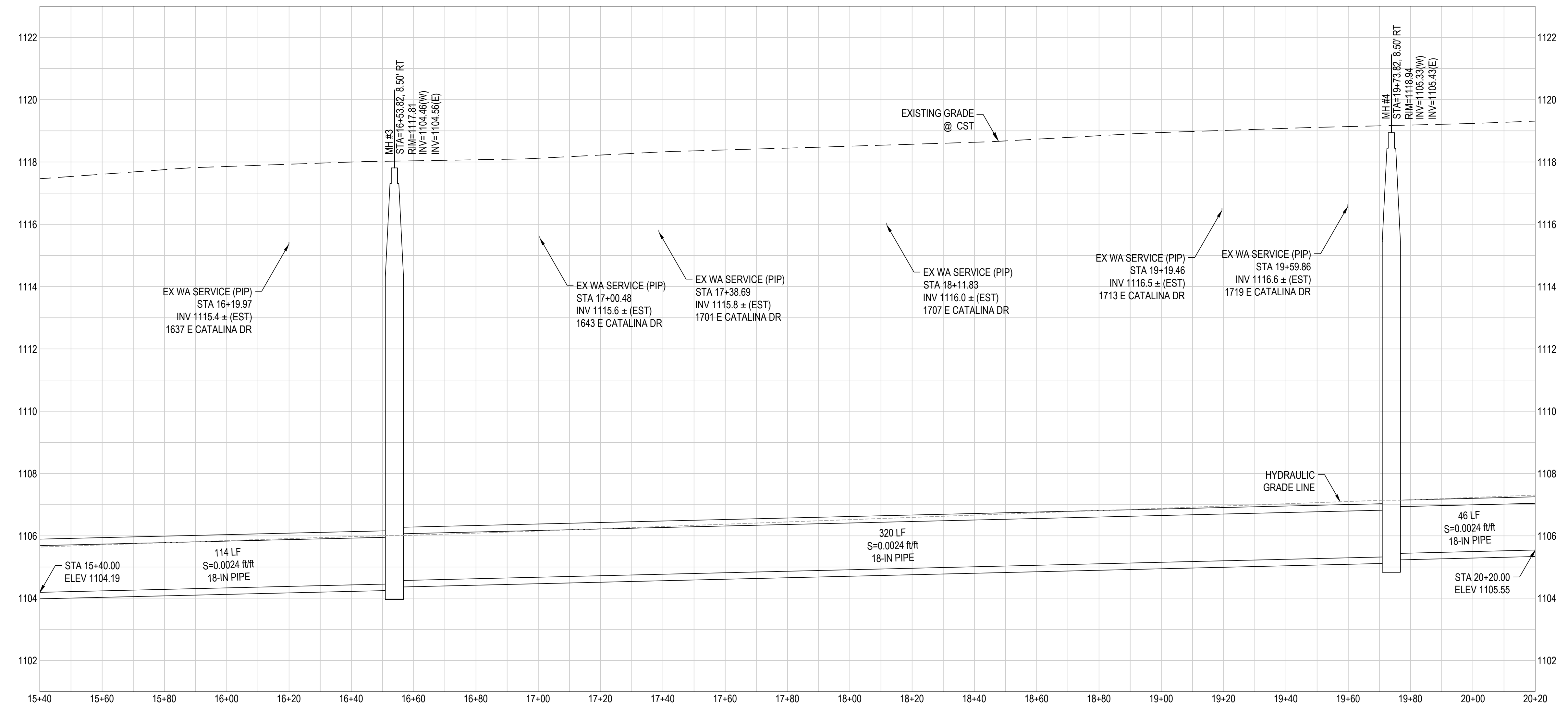
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MATCHLINE STA 15+40.00
SEE SHEET 20

MATCHLINE STA 20+20.00
SEE SHEET 22



REMOVAL & CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
20	AGGREGATE BASE COURSE, GREATER OF 6" THICK OR MATCH EXIST (M3100000)	CY	33
24	18" STORM SEWER PIPE (M6180018)	LF	480
28	60" STORM DRAIN MANHOLE (M6250005)	EA	2
A-5	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 5" THICK, PER SPECIAL PROVISIONS (M3369795)	SY	196
57	APPLY CRACK SEAL AND SLURRY SEAL TREATMENT PER MAG SPEC 332, AND SPECIAL PROVISIONS (M3370102)	SY	1770



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.

PLAN & PROFILE
18TH ST & PINCHOT AVE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

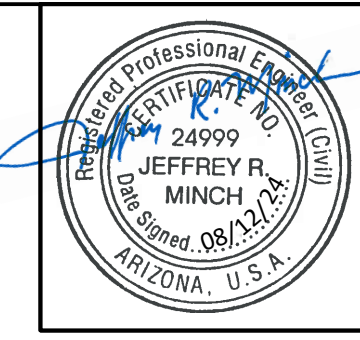
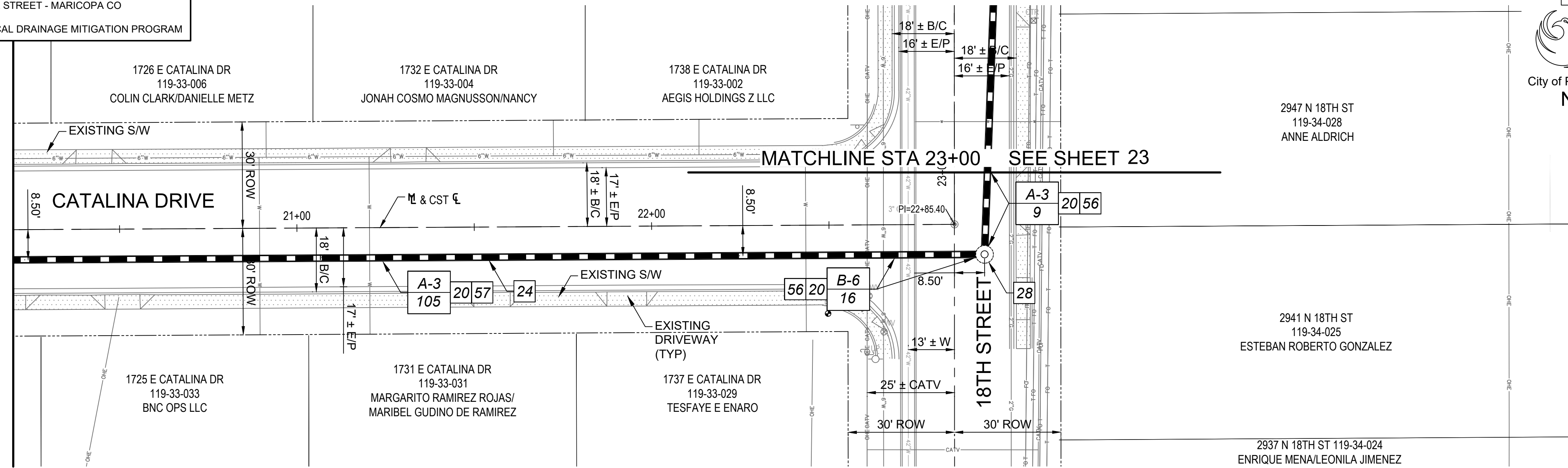
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	21	42	

SCALE: Horz. 1" = 20' Vert. 1" = 2'

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

MATCHLINE STA 20+20.00
SEE SHEET 21



FEDERAL REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140117	22	42

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REMOVAL & CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
20	AGGREGATE BASE COURSE, GREATER OF 6" THICK OR MATCH EXIST (M3100000)	CY	21
24	18" STORM SEWER PIPE (M6180018)	LF	280
28	60" STORM DRAIN MANHOLE (M6250005)	EA	1
56	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT PER MAG SPEC 331, AND SPECIAL PROVISIONS (M3370103)	SY	110
57	APPLY CRACK SEAL AND SLURRY SEAL TREATMENT PER MAG SPEC 332, AND SPECIAL PROVISIONS (M3370102)	SY	943
A-5	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 5" THICK, PER SPECIAL PROVISIONS (M3369795)	SY	112
B-6	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS (M3369796)	SY	16

REVISION BY CITY OF PHOENIX

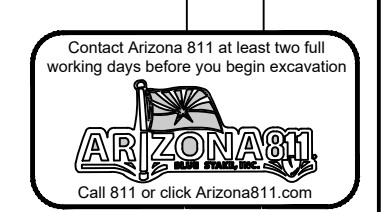
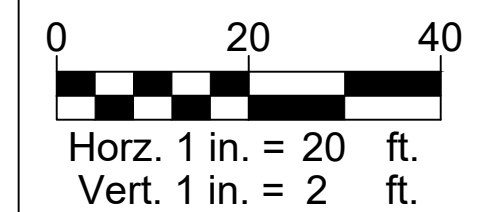
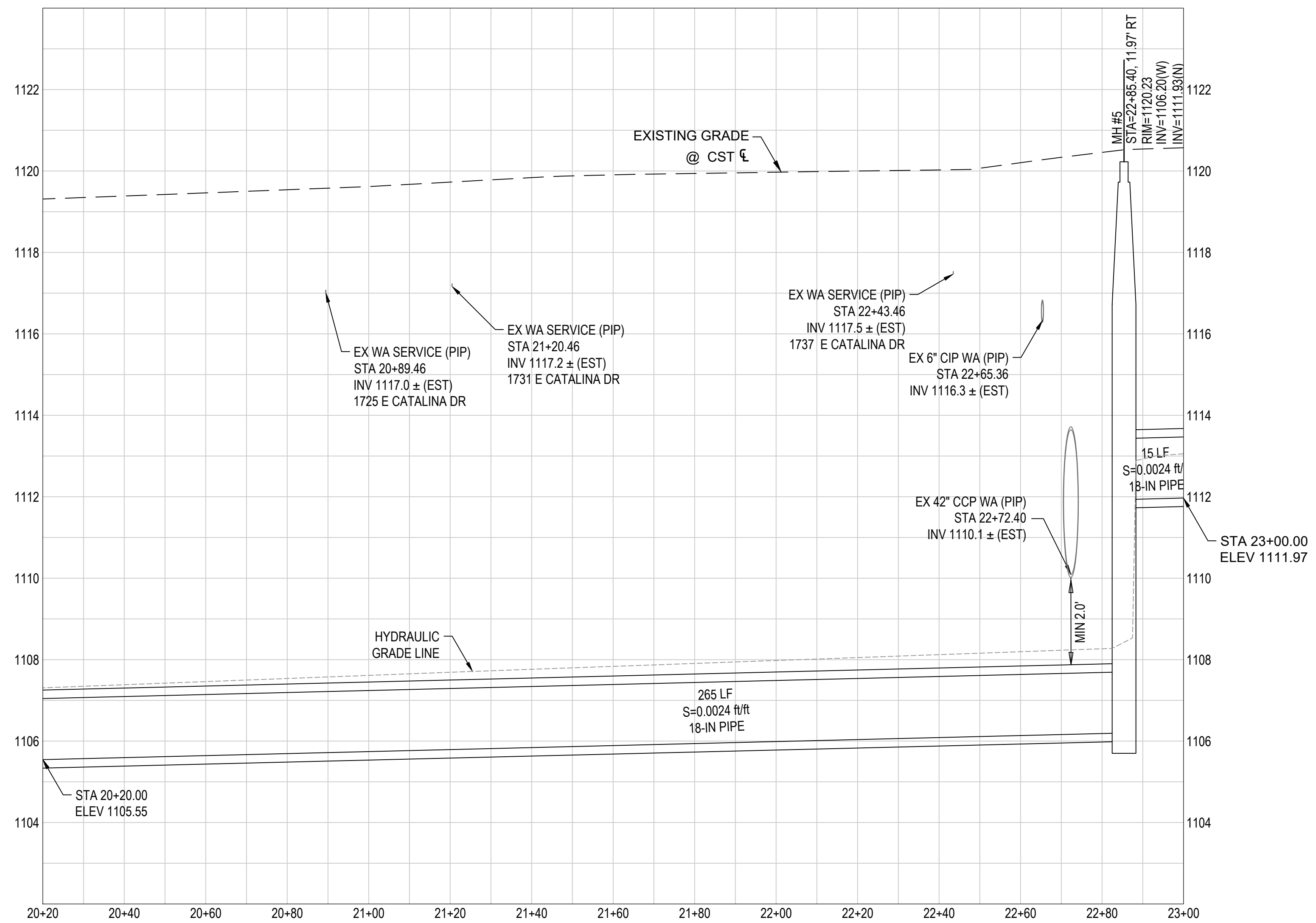
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NO	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO	DESCRIPTION	REV BY	CKD BY	DATE



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PLAN & PROFILE
18TH ST & PINCHOT AVE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	22	42	

SCALE: Horz. 1" = 20' Vert. 1" = 2'

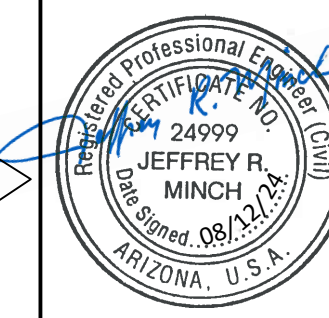
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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

1738 E CATALINA DR
119-33-002
AEGIS HOLDINGS Z LLC

1737 E PINCHOT AVE
119-33-001
ANTHONY J & CHRITINE L MARTIN

City of Phoenix



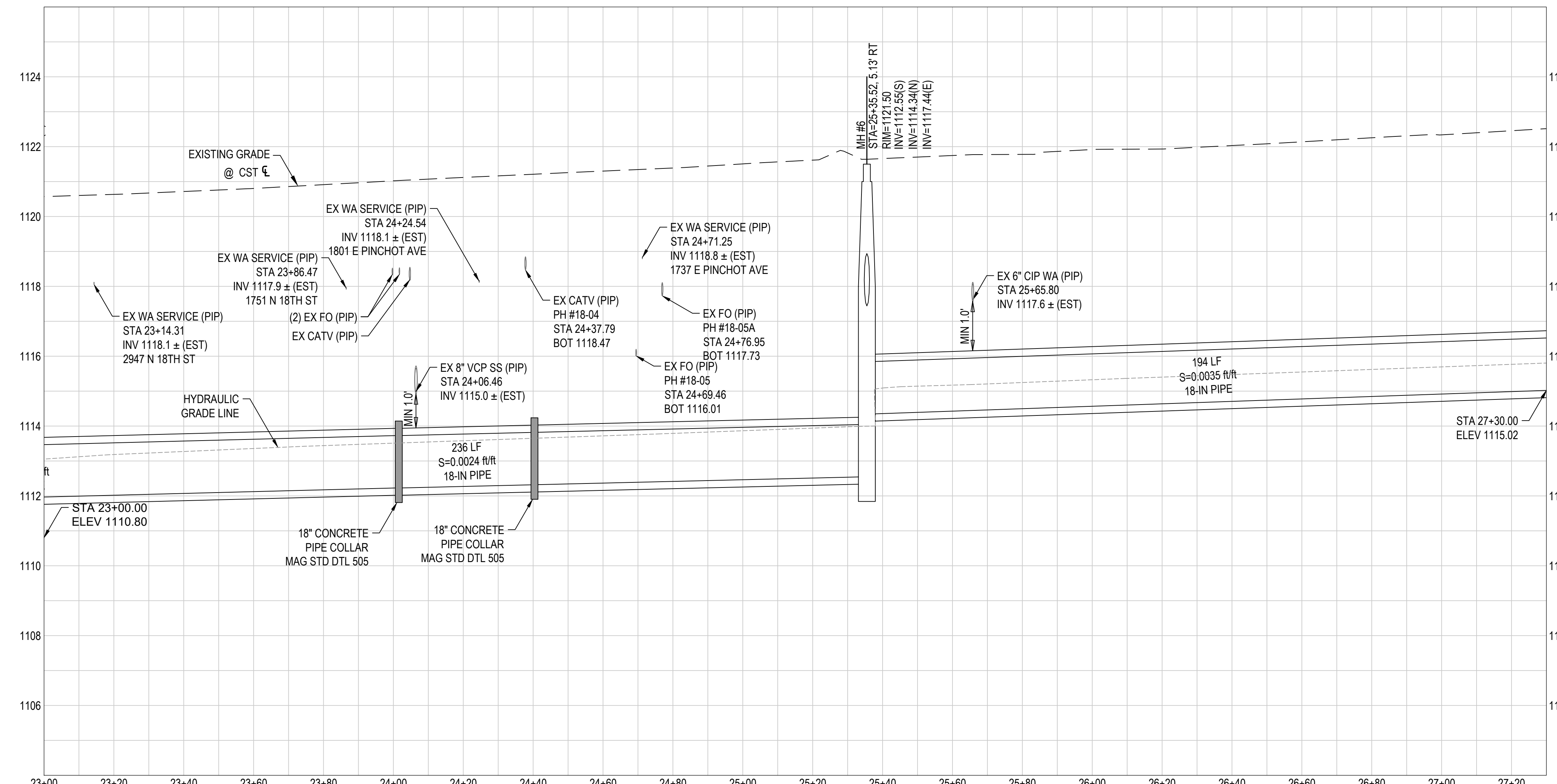
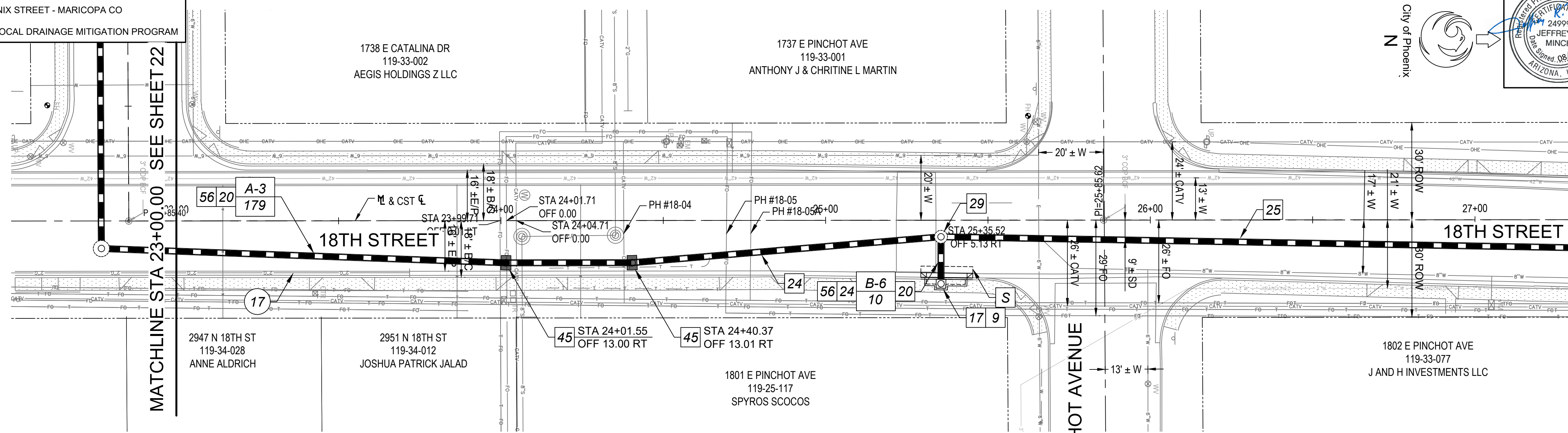
STATE	PROJECT NO	NO	TOTAL
ARIZ	ST83140117	23	42

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Construction Management
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NO	DESCRIPTION	REV BY	CKD BY	DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE



REMOVAL & CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
17	REMOVE MISCELLANEOUS ASPHALT FROM GUTTER (M3509997)	EA	1
9	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT PER SPECIAL PROVISIONS (M3360212)	SY	4
17	CONCRETE CATCH BASIN, TYPE "M-2, L=6-FT AND 3-FT" PHX SUPP DETAIL P1569 (M5051564)	EA	1
20	AGGREGATE BASE COURSE, GREATER OF 6" THICK OR MATCH EXIST (M3100000)	CY	31
24	18" STORM SEWER PIPE (M6180018)	LF	443
29	STORM SEWER MANHOLE, MAG STANDARD DETAIL 522, COP SUPP. STD. DETAIL P-1520 (M6250005)	EA	1
45	CONCRETE PIPE COLLAR FOR 18" PIPE AND SMALLER, MAG STANDARD DETAIL 505 (M6181505)	EA	2
56	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT PER MAG SPEC 331, AND SPECIAL PROVISIONS (M3370103)	SY	1752
A-5	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 5" THICK, PER SPECIAL PROVISIONS (M3369795)	SY	176
B-6	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS (M3369796)	SY	9

Scale: Horz. 1" = 20' Vert. 1" = 2'

0 20 40

Horz. 1 in. = 20 ft.
Vert. 1 in. = 2 ft.

Arizona
Call 811 or click Arizona811.com

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.

PLAN & PROFILE
18TH ST & PINCHOT AVE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

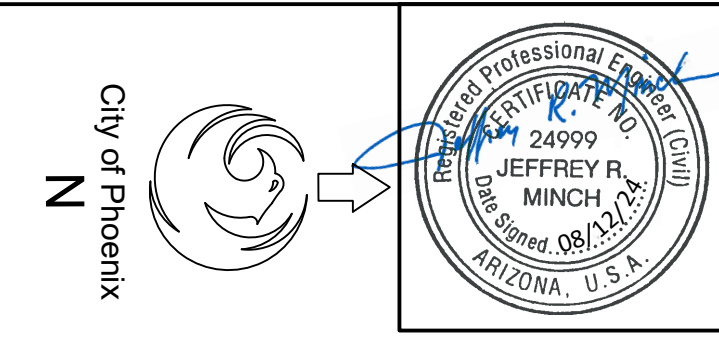
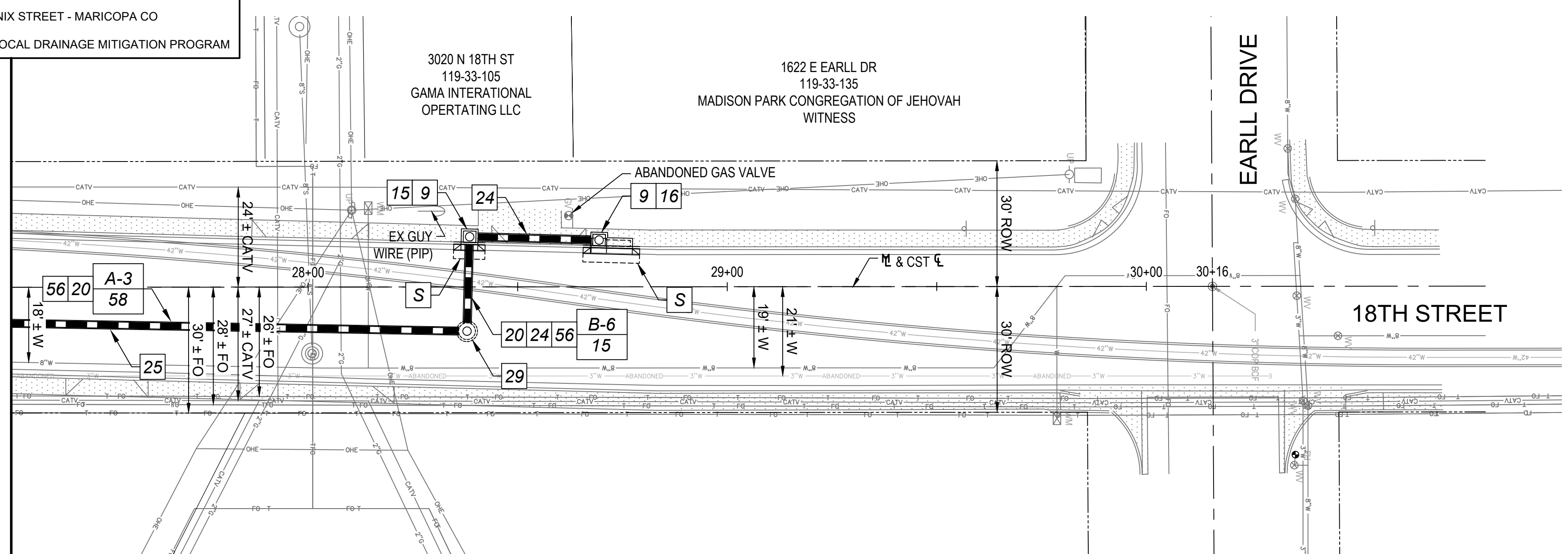
2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	23	42	

SCALE: Horz. 1" = 20' Vert. 1" = 2'

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

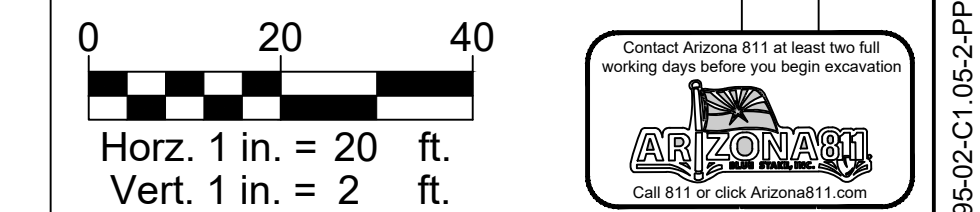


REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140117	24	42

WOOD PATEL
Wood, Patel & Assoc., Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

REMOVAL & CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
9	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT PER SPECIAL PROVISIONS (M3360212)	SY	6
15	CONCRETE CATCH BASIN, TYPE "M" PHX SUPP DETAIL P1569-1 (M5051524)	EA	1
16	CONCRETE CATCH BASIN, TYPE "M-1, L=6-FT" PHX SUPP DETAIL P1569-1 (M5051535)	EA	1
20	AGGREGATE BASE COURSE, GREATER OF 6" THICK OR MATCH EXIST (M3100000)	CY	5
24	18" STORM SEWER PIPE (M6180018)	LF	160
29	STORM SEWER MANHOLE, MAG STANDARD DETAIL 522, COP SUPP. STD. DETAIL P-1520 (M6250005)	EA	1
56	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT PER MAG SPEC 331, AND SPECIAL PROVISIONS (M3370103)	SY	484
A-5	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 5" THICK, PER SPECIAL PROVISIONS (M3369795)	SY	44
B-6	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS (M3369796)	SY	15



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PLAN & PROFILE
18TH ST & PINCHOT AVE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	24	42	

SCALE: Horz. 1" = 20' Vert. 1" = 2'

REVISION BY CITY OF PHOENIX

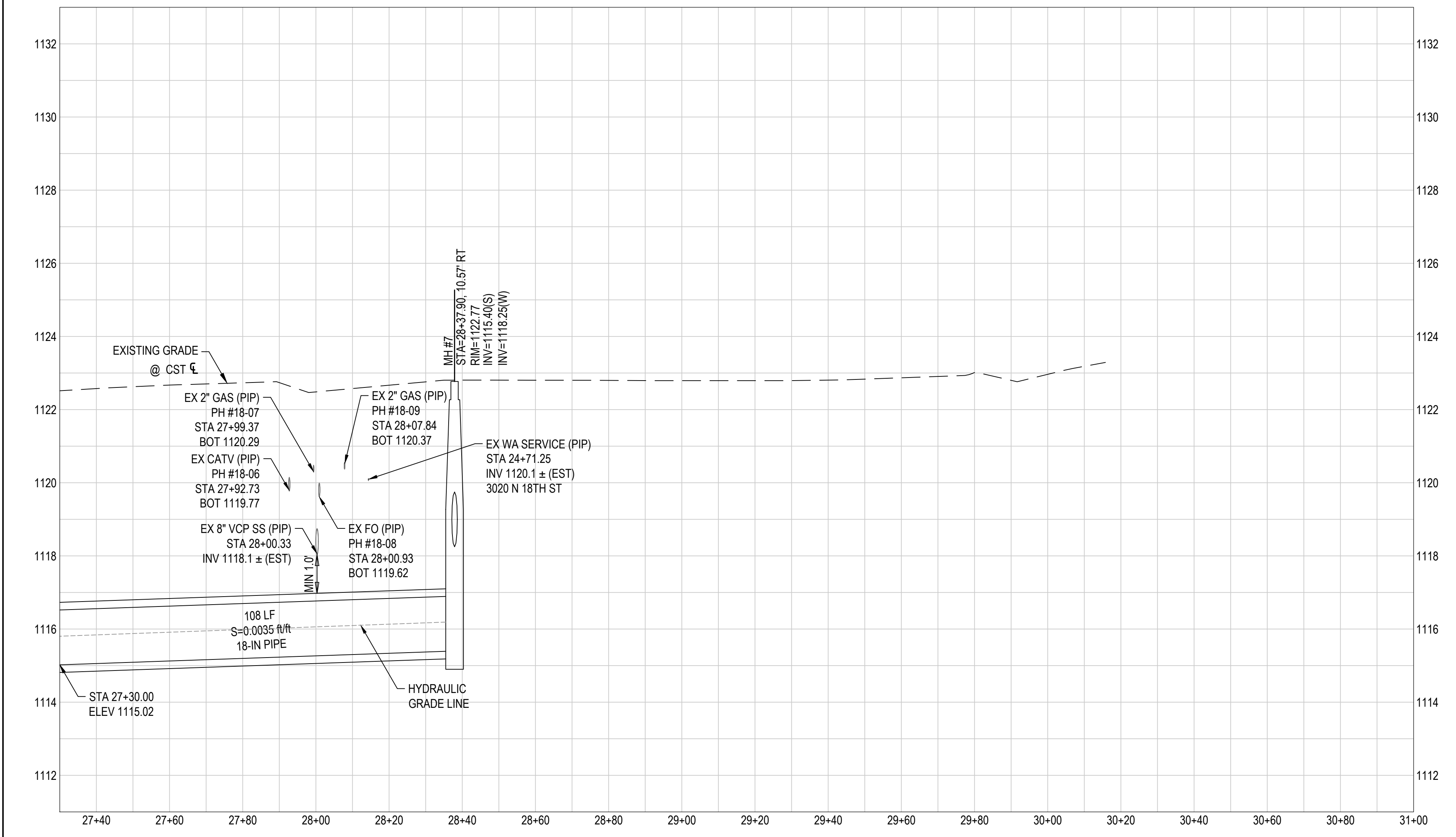
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REVISION BY CITY OF PHOENIX

NO	DESCRIPTION	REV BY	CKD BY	DATE

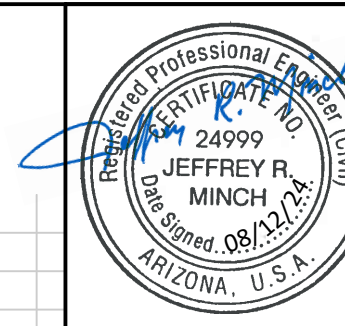
REVISION BY CITY OF PHOENIX

NO	DESCRIPTION	REV BY	CKD BY	DATE



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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM



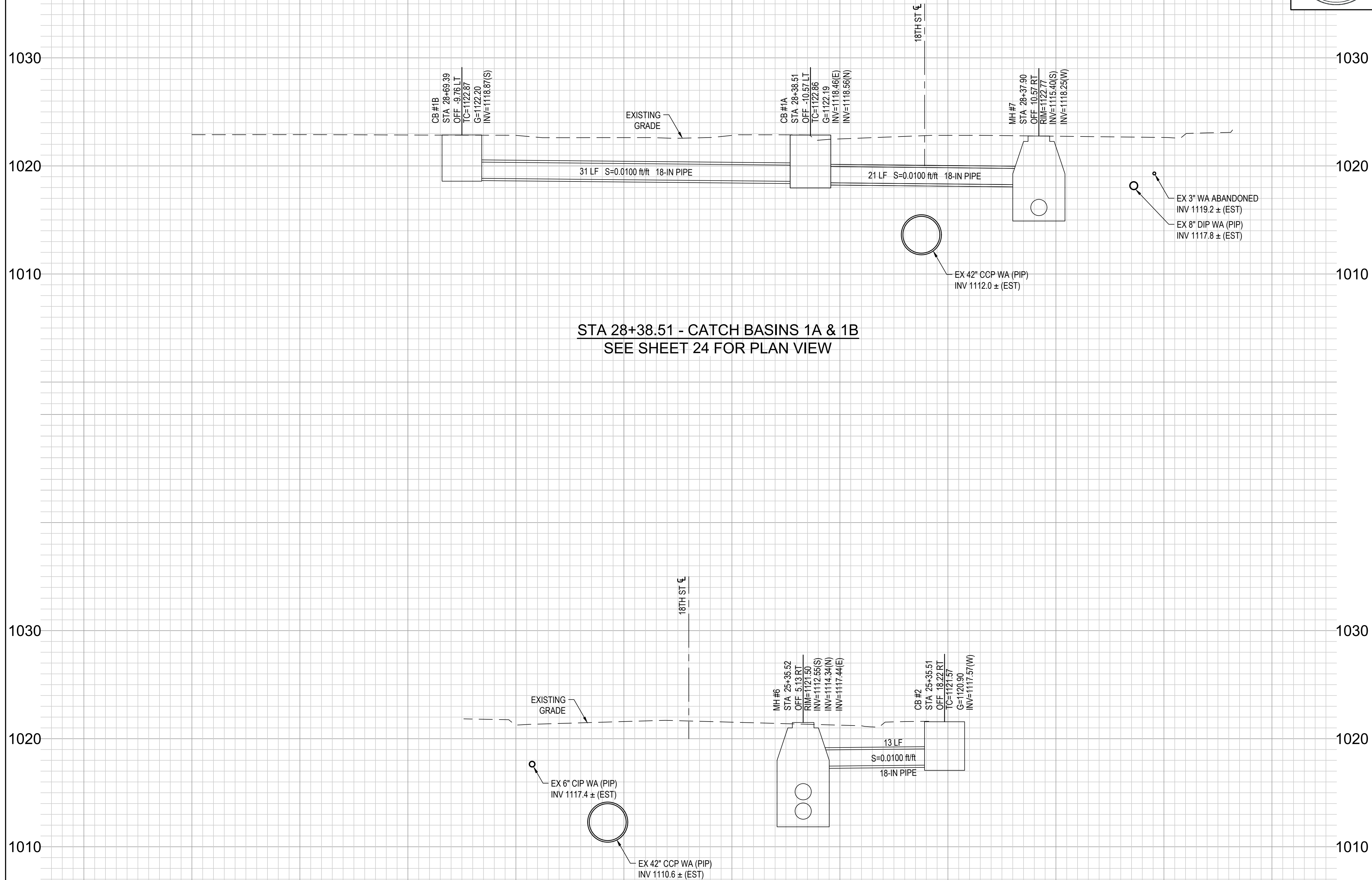
FIRM REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140117	25	42

WOOD PATEL
Wood, Patel & Assoc., Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
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NO	DESCRIPTION	REV BY	CKD BY	DATE

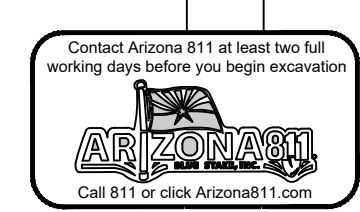
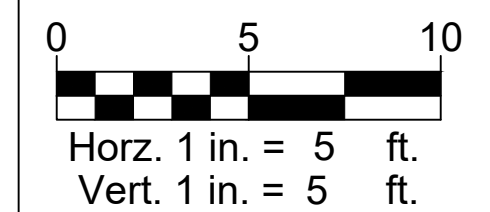
NO	DESCRIPTION	REV BY	CKD BY	DATE

NO	DESCRIPTION	REV BY	CKD BY	DATE



REMOVAL & CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY



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.

LATERAL PROFILES
18TH ST & PINCHOT AVE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
18TH STREET & PINCHOT AVENUE

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	25	42	

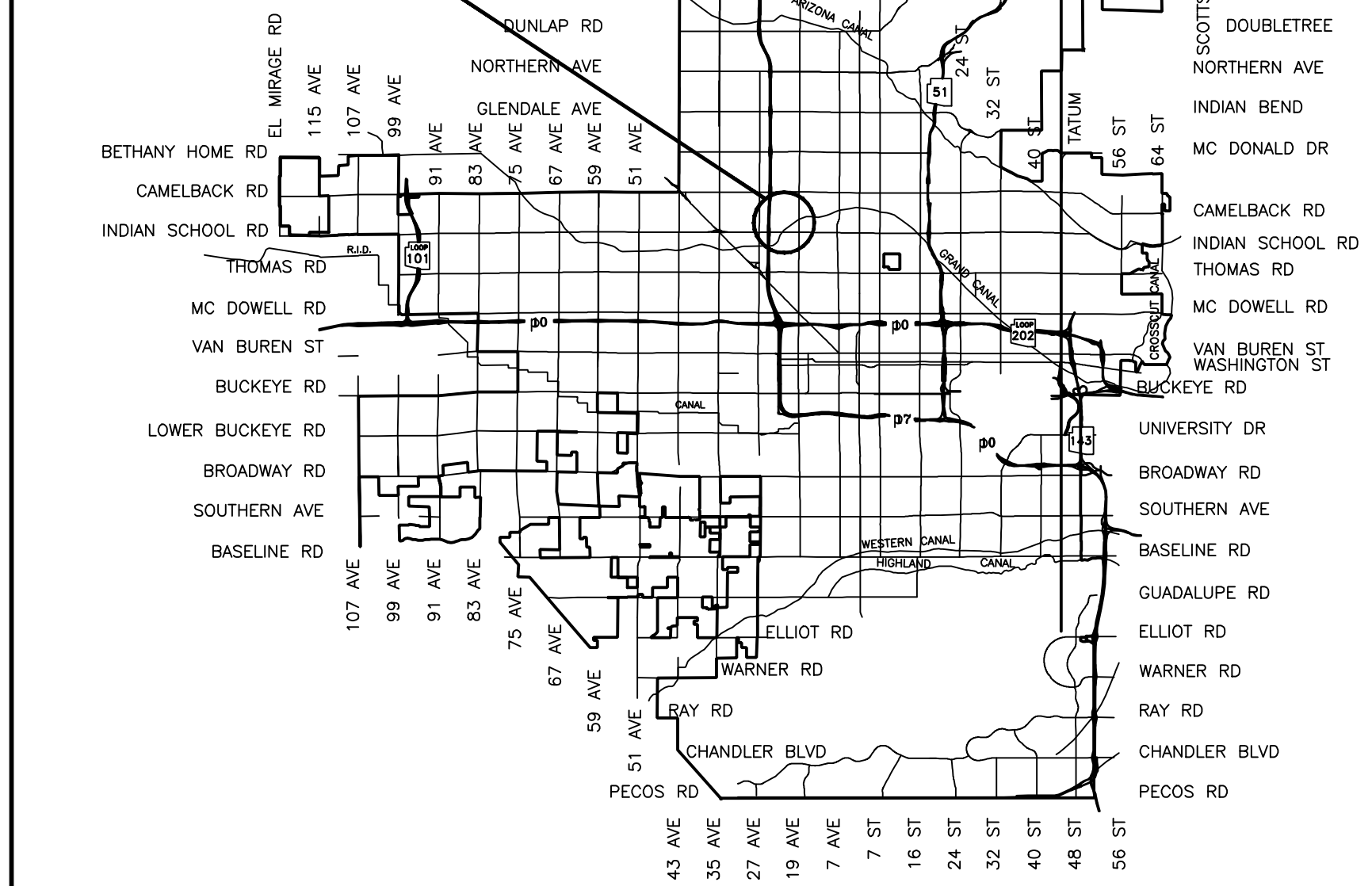
SCALE: 1" = 5'

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**CITY OF PHOENIX
STREET TRANSPORTATION DEPARTMENT
DESIGN & CONSTRUCTION MANAGEMENT DIVISION
2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 3**

**WESTWOOD - 23RD AVE & DEVONSHIRE
ST83140118**

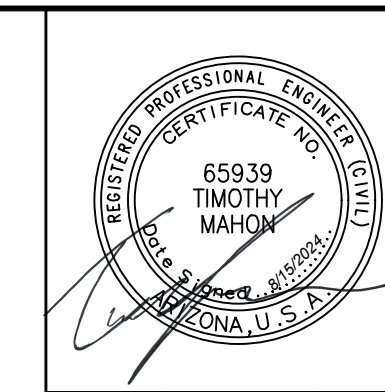
ST83140118
WESTWOOD
23RD AVE
INDIAN SCHOOL RD TO
HEATHERBRAE DR



2024

CITY BENCHMARKS

▲ COP BRASS CAP IN HAND HOLE, AT THE INTERSECTION OF 23RD AVE AND CAMBELL AVENUE EL 1124.02 (NGVD-29)



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140118	26	42	

AZTEC
501 N. 44TH ST
SUITE 300
PHOENIX, AZ 85008
PH: 602-444-0400
WWW.AZTEC.COM

DRAWN: LNB | DESIGN: CJR | CHECKED: TMM | DATE: 6/24

**MAYOR
KATE GALLEGO**

**CITY MANAGER
JEFFREY BARTON**

CITY COUNCIL

DISTRICT NO 1.	ANN O'BRIEN
DISTRICT NO 2.	JIM WARING
DISTRICT NO 3.	DEBRA STARK
DISTRICT NO 4.	LAURA PASTOR
DISTRICT NO 5.	BETTY GUARDADO
DISTRICT NO 6.	KEVIN ROBINSON
DISTRICT NO 7.	YASSAMIN ANSARI
DISTRICT NO 8.	KESHA HODGE WASHINGTON

INDEX OF SHEET

SHEET NO.	DWG. SERIES NO.	SHEET TITLE
1	G-0.01	COVER
2-3	G-1.01-1.02	LEGEND AND NOTES
4	G-2.01	GEOMETRIC CONTROL
5	G-3.01	QUANTITY SUMMARY
6-7	SD-1.01-1.02	DRAINAGE PLANS
8	SD-2.01	CONNECTOR PIPE PROFILES
9	SDD-1.01	WATERLINE RELOCATION DETAIL PER P-1370

APPROVED Darlen Helm 10/17/2024
WATER SERVICES DEPARTMENT DATE

APPROVED Nazar Nabaty 10/18/2024
NAZAR NABATY, FLOODPLAIN ADMINISTRATOR DATE

APPROVED Eric J. Froberg 10/18/24
ERIC J. FROBERG, P.E., CITY ENGINEER DATE

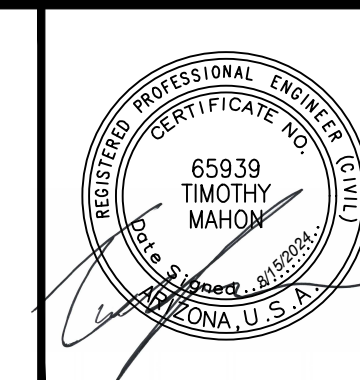
LENGTH OF PROJECT: 23RD AVENUE = 662 LF
AREA OF DISTURBANCE = 3380 SQ.FT. = 0.08 ACRES



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

ST83140118: WESTWOOD - 23RD AVE & DEVONSHIRE

LEGEND AND NOTES



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140118	26	42	

DATE: 06/24
DRAWN: LNB DESIGN: CJR CHECKED: TMM

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

LEGEND

- ▲ BENCHMARK
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "B"
- ◻ NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "A"
- ===== COMBINED CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
- █ BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT – C.O.P. DETAIL P1200
- ▨ EXISTING CONCRETE PAVEMENT OR SIDEWALK
- ▩ NEW CONCRETE SIDEWALK – STD. DETAIL P1230
- ▩ NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- ▲ NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- ▽ AVERAGE GROUND ELEVATION AT R/W LINE
- ◇ BACKFILL COMPACTION TYPE
- EXISTING DITCH
- 24" IRR (SRP) EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
- NEW IRRIGATION VALVE – M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- 12" DIP W EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" DIP W EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391
- 3/4" W WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- T.N. EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- 8" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 30" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- M NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- SD EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- 4" G EXISTING GAS LINE W/SIZE
- E EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-4D EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-4D EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV EXISTING UNDERGROUND CABLE TV
- FO EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING WOOD FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
- EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
- EXISTING TREE TO REMAIN

NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS; PLANS; 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 BID.
2. ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
3. NEW MANHOLE COVERS LOCATED IN SIDEWALK SHALL BE GROUND TO OBLITERATE RAISED LETTERING, AND PROVIDE A SMOOTH SURFACE FLUSH WITH THE ADJACENT SIDEWALK.
4. 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.
5. 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 COP DETAIL P1576.
6. 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 COP DETAIL P1505. ANY ANGLE BENDS GREATER THAN 22-1/2' SHALL BE PREFABRICATED.
7. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2' FROM PERPENDICULAR.
8. 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.
9. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM DRY UTILITIES CROSSINGS SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAIN, OR WATER SERVICE TO OUTSIDE UNDERGROUND UTILITY.
10. 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.
11. VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY.
12. UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
13. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.
14. CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.
15. SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER MAG DETAIL 403-1, 403-2, OR 403-3.
16. 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.
17. 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. THERE WILL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR THIS WORK, THE COST BEING CONSIDERED INCLUDED.
18. 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.

NOTES (CONT)

19. CONTACT INSPECTOR IF LESS THAN 6 INCHES OR COVER WILL BE MAINTAINED BELOW SCARIFICATION DEPTH CONTRACTOR TO FIELD VERIFY DEPTH AT LOCATION OF NEW AC AND SIDEWALK.
20. IN HISTORIC PRESERVATION ZONES, THE CONTRACTOR SHALL DISTURB AS LITTLE OF HISTORIC SIDEWALK AS POSSIBLE. UNLESS OTHERWISE PROVIDED ON THE PLANS:
 - THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING AC DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" ACSC 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 PCC DRIVEWAYS SHALL BE FILLED WITH PCC. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.
 - THE SPACE BETWEEN THE BACK OF THE SIDEWALKS AND EXISTING AC PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 2" ACSC ON 100% COMPACTED NATIVE SOIL.
21. EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.
22. CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER COP STANDARD DETAIL.
23. ANY PERSON PERFORMING ACTIVITY OR OPERATING ANY MECHANICAL EQUIPMENT WITHIN 25 FT OF ANY OVERHEAD POWERLINES SHALL CONTACT SAFETY SERVICES AS 602-236-8117 OR EMAIL PUBLICSAFETY@SRPNET.COM TO SCHEDULE AN ONSITE POWERLINE PRECONSTRUCTION CONSULTATION.

STRUCTURAL NOTES

1. "CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
3. ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATION 505.9 – FINISHING CONCRETE, UNLESS OTHERWISE SPECIFIED.

PAVING NOTES

1. COMPACTION SHALL COMPLY WITH MAG SECTION 601.
2. CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
3. THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTION GROUP, 602-262-7811 VOICE OR 7-1-1 TTY, SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
4. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
5. ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
6. THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION, SHALL BE DETERMINED IN THE FIELD BY THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.
7. AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
8. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
9. CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.

PAVING NOTES (CONT)

10. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER CITY OF PHOENIX STANDARD DETAIL P1391.
11. GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
12. THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
13. AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT- OF- WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF STREETS DEPARTMENT: RIGHT-OF-WAY MANAGEMENT OFFICE
14. ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).
15. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG. SECTION 336 AND CITY DETAIL P1200 -TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
16. TREES AND SHRUBBERY IN THE R/W THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT A PPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602)262-6501 AND TRANSPORTATION DEPARTMENT AT (602)534-9898.
17. PER THE STREET PAVEMENT CUT POLICY (TRT 00164) AND CITY ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO (2) YEARS OLD, THE PERMITEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO (2) YEARS OLD, THE PERMITEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.
18. ALL RAMPS MUST MEET 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.

ABBREVIATIONS

- PC = PIPE CONNECTION
- MH = MANHOLE
- CB = CATCH BASIN

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

LEGEND & NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

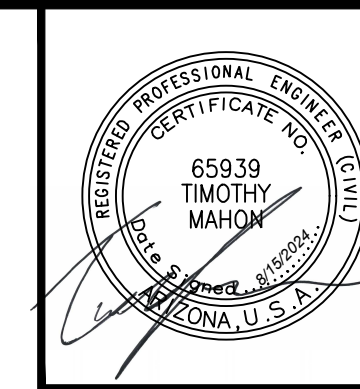
WESTWOOD
23RD AVE & DEVONSHIRE
ST83140118

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: NONE	HORIZONTAL		G-1.01

AMERICAN RESCUE PLAN ACT
LOCAL DRAINAGE MITIGATION PROGRAM
PHOENIX STREETS – MARICOPA CO.

WATER GENERAL NOTES

WATER NOTES (CONT.)



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140118	27	42	
06/24					
DATE:					
DRAWN:	LNB	DESIGN:	CJR	CHECKED:	TMM

REVISION BY	DESCRIPTION	NO.	DATE

REVISION BY	DESCRIPTION	NO.	DATE

REVISION BY	DESCRIPTION	NO.	DATE

- ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX SUPPLEMENT TO MAG. SPECIFICATIONS AND DETAILS P1391, TYPE A ONLY.
- ALL CONSTRUCTION IN THE 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 PLANS.
- 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 305-1 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 TIE 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 AND 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 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 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.
- 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 AND P-69. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: HTTP://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML
- IN ACCORDANCE WITH AAC R-18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
- 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 THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.
- 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 BACKFILL, 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 AND 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.
- FOR SHUTDOWNS NECESSARY TO ACCOMPLISH APPROVED WORK, THE CONTRACTOR SHALL CONTACT THE PROJECT INSPECTOR EARLY IN THE PROJECT TO COORDINATE A SHUTDOWN WITH THE WATER SERVICES DEPARTMENT, FIELD DISTRIBUTION & COLLECTIONS STAFF. THE CONTRACTOR SHALL HAVE ALL MATERIALS AND EQUIPMENT ON THE PROJECT SITE TO COMPLETE THE CONNECTION(S) PRIOR TO THE SHUTDOWN.
ONCE THE EXISTING WATER PIPE IS CUT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE PIPE CLEAN AND FREE OF DIRT AND DEBRIS BY CAPPING THE ENDS UNTIL THE FINAL CONNECTIONS CAN BE COMPLETED, PRIOR TO THE FINAL CONNECTIONS, THE EXISTING PIPE SHALL BE SWABBED WITH A MINIMUM 50 PPM CHLORINE SOLUTION FOR A DISTANCE OF 10 FEET FROM THE OPENING.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESSIBILITY TO THE VALVE OPERATING NUT FOR ALL VALVES, WITHIN THE PROJECT BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING THE SHUTDOWN AND THE CONTRACTOR MUST PROPERLY REQUEST A SCHEDULE REVISION.
THE WATER SERVICES DEPARTMENT IS INDEMNIFIED FOR ANY AND ALL RESULTANT COSTS INCURRED BY THE CONTRACTOR SUCH AS, BUT NOT LIMITED TO TRAFFIC CONTROL, DELAYS, LOSS OF INCENTIVES, STANDBY AND PENALTIES IF THE CONTRACTOR DID NOT PROPERLY REQUEST A SHUTDOWN; OR FAILED TO MAINTAIN ACCESSIBILITY TO VALVES; OR ON THE SCHEDULED DATE WORK HAD NOT PROGRESSED TO THE POINT AT WHICH THE SHUTDOWN WAS NEEDED.
- VALVE BOX REMOVAL – AFTER ACCEPTANCE OF THE NEW WATERLINES, FIRE HYDRANTS AND SERVICE CONNECTIONS THE CONTRACTOR SHALL SHUT THE VALVE, REMOVE THE BOX AND COVER, BACKFILL AND COMPACT THE VOID WITH ABC AS APPLICABLE, COVER WITH 2-INCH AC (C) PAVEMENT, OR AS REQUIRED TO MATCH EXISTING GROUND.
- CUT AND PLUG –THE CONTRACTOR SHALL CUT AND PLUG EXISTING WATERLINES AS NOTED ON THE APPROVED PLANS AFTER ALL EXISTING WATER SERVICES HAVE BEEN TIED OVER TO THE NEW WATERLINE.
- SWING CONNECTIONS – AFTER THE NEW WATERLINE IS ACCEPTED FOR SERVICE, THE CONTRACTOR SHALL MAKE "SWING CONNECTIONS" TO EXISTING WATERLINES AS INDICATED ON THE APPROVED PLANS. "SWING CONNECTIONS" SHALL INCLUDE ALL PIPING AND APPURTENANCES (OFFSETS, BENDS, ETC.) REQUIRED TO AFFECT A CONNECTION.
- WATER SERVICES – THE CONTRACTOR SHALL REPLACE EXISTING WATER SERVICES AS INDICATED ON THE APPROVED PLANS WITH NEW SERVICE PIPE AND CURB STOP FOR THE RELOCATED EXISTING WATER METERS. (ALL SERVICE CONNECTIONS MUST BE AT MINIMUM 1-INCH. FOR 3/4-INCH METERS, A 3/4-INCH REDUCER MUST BE INSTALLED TO ACCOMMODATE THE METER).
- METER AND BOX – THE CONTRACTOR SHALL RELOCATE THE EXISTING METERS AND METER BOXES, AND CONNECT THEM AS INDICATED ON THE APPROVED PLANS AFTER THE NEW WATERLINE HAS BEEN ACCEPTED FOR SERVICE.
- NEW WATER METERS AND SERVICES WILL BE INSTALLED AFTER THE CONTRACTOR MAKES PROPER APPLICATION AND PAYS THE PREVAILING FEES. APPLICATION AND PAYMENT OF FEES CAN BE MADE AT THE FOLLOWING ADDRESS: CITY OF PHOENIX, WATER SERVICES DEPARTMENT, INFRASTRUCTURE RECORD SERVICES DIVISION, 200 WEST WASHINGTON STREET, 8TH FLOOR, PHOENIX, AZ 85003.
- SURPLUS ABANDONED FIRE HYDRANTS (BARREL PORTION ONLY) TO THE CITY OF PHOENIX WATER DEPARTMENT – SUPPORT SERVICES, 4436 N. 35TH AVENUE, PHOENIX. CONTACT THE WATER DEPARTMENT – SUPPORT SERVICES BY CALLING 602-262-5077 FOR ANY ADDITIONAL INFORMATION.
- CITY OF PHOENIX WATER DEPARTMENT PERSONNEL SHALL REMOVE ALL PROPOSED EXISTING WATER METERS THAT ARE TO BE ABANDONED ONCE ALL REQUIRED FEES HAVE BEEN PAID BY THE APPLICANT AT COUNTER 8 – CIVIL PERMITS, ON THE SECOND FLOOR OF CITY OF PHOENIX CITY HALL, LOCATED AT 200 W. WASHINGTON STREET.
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION.
- TRAFFIC CONTROL SHALL CONFORM TO THE RIGHT-OF-WAY MANAGEMENT PROGRAM (RMP), ADOPTED BY THE CITY OF PHOENIX AND SHALL ALSO BE SUBJECT TO CITY REVIEW AND APPROVAL.
- ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE OTHERWISE. IN RIGHT OF WAY, UNLESS NOTED OTHERWISE.
- WHEN RELOCATING WATER METERS WHICH UTILIZE EITHER GALVANIZED OR POLYETHYLENE SERVICE PIPE (OR ANY OTHER NON STANDARD SERVICE PIPE) THE ENTIRE SERVICE PIPING SHALL BE REPLACED USING THE APPROVED SERVICE PIPE MATERIAL FOR THAT PARTICULAR METER SIZE. THE EXISTING CORPORATION STOP CAN BE USED PROVIDED AND APPROVED COPPER PIPE ADAPTER IS USED. APPROVED ADAPTERS ARE THE FORD C04-43 AND C04-54 CONVERSION ASSEMBLY OR EQUAL.

- WATER NOTES (CONT.)**
- BIDDERS ARE ADVISED THAT THE LOCATION, NUMBER, AND TYPE OF UTILITIES SHOWN ON THESE PLANS AND SPECIFICATIONS ARE ONLY AS ACCURATE AS THE BEST INFORMATION AVAILABLE FROM PUBLIC UTILITIES, OWNERS, AND USERS AT THE TIME THESE PLANS AND SPECIFICATIONS WERE PREPARED. UNDERGROUND UTILITIES MAY BE PRESENT ON THIS PROJECT WHICH WERE NOT DISCLOSED TO THE ENGINEER. NO REPRESENTATION IS MADE THAT THE UTILITIES LOCATIONS INDICATED ON THESE PLANS ARE ACCURATE, COMPLETE, OR EXCLUSIVE. BIDDERS ARE ADVISED TO UNDERTAKE THEIR OWN INVESTIGATIONS OF EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL TEST PITS OR THE PRE-CONSTRUCTION INVESTIGATION OF UNDERGROUND UTILITIES OR STRUCTURE. PURSUANT TO ARIZONA REVISED STATUTE 40-360.21, THE CONTRACTOR MUST CONTACT "BLUE STAKE" AT (602)261-1100 OR THE APPROPRIATE PUBLIC UTILITY FOR ASSISTANCE IN LOCATING UNDERGROUND FACILITIES, LINES, AND APPURTENANCES PRIOR TO CONSTRUCTION.
 - BY SUBMITTING A PROPOSAL ON THIS PROJECT, BIDDERS ARE REPRESENTING THAT THEY HAVE CONSIDERED THE POTENTIAL IMPACT OF TEMPORARY OR PERMANENT RELOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THE PROJECT ON THEIR COSTS, AND THAT THEY HAVE INCLUDED IN THEIR PROPOSALS THE COST OF FINDING, PROTECTING, AND RELOCATING ALL EXISTING UTILITIES WITHIN THE PROJECT. NO ADDITIONAL COMPENSATION FOR DAMAGES WILL BE PAID FOR ANY COST, LOSS, DAMAGE, HINDRANCE, OR DELAY INCURRED BY A CONTRACTOR OR SUBCONTRACTOR DUE TO CONFLICTS WITH EXISTING UTILITIES; REGARDLESS OF WHETHER OR NOT THOSE UTILITIES ARE INDICATED ON THE PLANS OR SPECIFICATIONS FOR THIS PROJECT.
 - THE SOLE AND EXCLUSIVE REMEDY FOR ANY COST, HINDRANCE, OR DELAY CAUSED BY ANY UTILITIES LOCATED WITHIN THE PROJECT (WHETHER OR NOT INDICATED ON THE PLANS OR SPECIFICATIONS) SHALL BE AN EXTENSION OF THE CONTRACT TIME; THE NEED FOR OR DURATION OF WHICH SHALL BE DETERMINED BY THE ENGINEER IN ITS SOLE DISCRETION.
 - PER MAG SECTION 630, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND TECHNICAL DATA REQUIRED FOR EVALUATING AND APPROVAL OF EACH TYPE OF VALVE. TAPPING SLEEVE AND VALVE AND BUTTERFLY VALVE. SHOP DRAWINGS MUST BE SUBMITTED TO WATER SERVICES AFTER THE ENGINEER OF RECORD HAS PROVIDED THEIR RECOMMENDATION OR APPROVAL.
 - THE CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THE VICINITY OF ALL GAS AND POWER LINES. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE GAS AND POWER TRENCHES AND PIPELINES AT ALL TIMES. SPECIAL ATTENTION SHALL BE GIVEN TO BRACING AND SUPPORT FOR UNDERGROUND POWER CROSSINGS. TRENCHING WITHIN A TWO FOOT VICINITY OF GAS LINES SHALL BE BY HAND. ALL POWER LINE CROSSINGS SHALL BE BRACED DURING CONSTRUCTION. BRACING SHALL BE A NON PAY ITEM UNLESS NOTED OTHERWISE. POLE BRACING MAY BE REQUIRED WHEN EXCAVATING NEAR POWER POLES.
 - THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN THE EXCAVATION AS REQUIRED BY THE MAG SPECIFICATIONS.
 - THE CONTRACTOR SHALL CONSTRUCT PERMANENT OR TEMPORARY PIPE SUPPORTS AS SHOWN ON MAG STANDARD DETAILS 403-1, 403-2 AND 403-3 FOR ALL UTILITY CROSSINGS ON THIS PROJECT. PIPE SUPPORTS SHALL BE A NON PAY ITEM.
 - THE CONTRACTOR MUST PROTECT THE ADJACENT PROPERTY AND IMPROVEMENTS THERETO FROM ANY DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO ADJACENT PROPERTY OR IMPROVEMENTS MUST BE REPAIRED OR REPLACED, TO THE PROPERTY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
 - OPEN CUT SLOPES AND SHORING FOR TRENCH EXCAVATIONS SHALL AS A MINIMUM COMPLY WITH OSHA REQUIREMENTS. WHERE EXCAVATIONS ARE DEEPER THAN 20 FEET, THE CONTRACTOR SHALL HAVE A PROFESSIONAL CIVIL ENGINEER, REGISTERED IN THE STATE OF ARIZONA, DESIGN OPEN CUT SLOPES AND SHORING. THE CONTRACTOR SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

PAVEMENT MARKING NOTES

- ALL PAVEMENT MARKINGS SHALL BE INSTALLED BY THE CITY OF PHOENIX FORCES. THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602) 262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT MARKING WORK COMMENCE.

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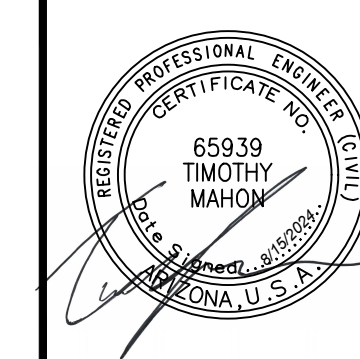
LEGEND & NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

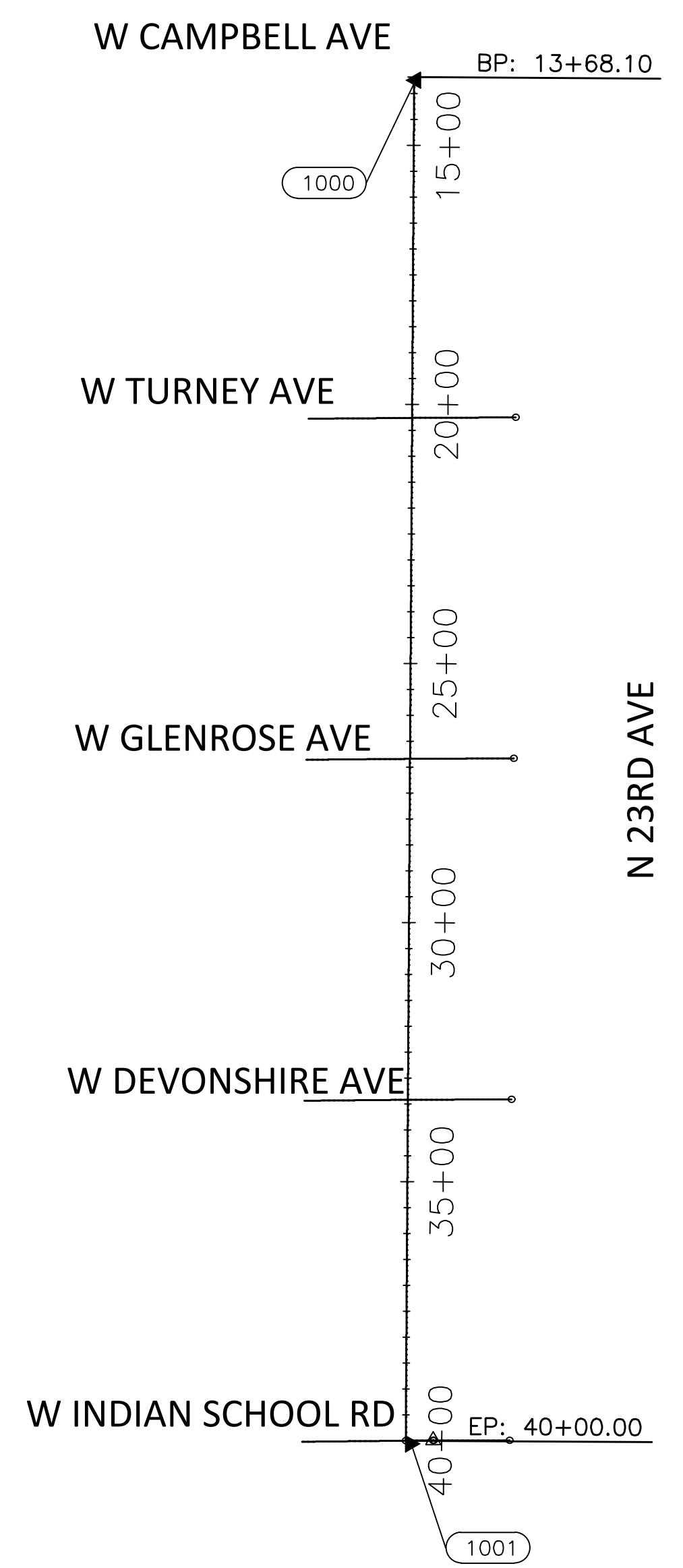
WESTWOOD
23RD AVE & DEVONSHIRE
ST83140118

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: NONE	HORIZONTAL		G-1.02

LOCAL DRAINAGE MITIGATION PROGRAM
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140118	28	42	
DATE: 06/24					
DRAWN: LNB					



CONTROL NOTE:

THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE, ADJUSTED FROM GRID TO GROUND USING A COMBINED SCALE FACTOR OF 1.00016 WITH A SCALE POINT OF X=0.00, Y=0.00.

THE BASIS OF BEARING IS GRID NORTH NAD 83 STATE PLANE, ARIZONA CENTRAL ZONE

ELEVATIONS ARE ON THE NGV29 VERTICAL DATUM

POINT	STATION	NORTHING	EASTING
1000	13+68.10	910,473.2083	641,640.2801
1001	40+00.00	907,841.3594	641,623.9874

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



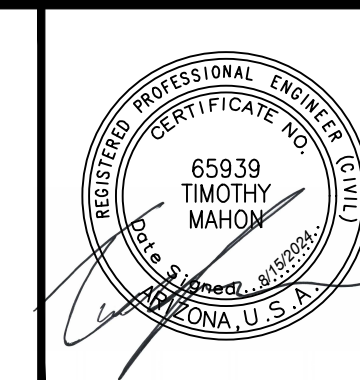
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GEOMETRIC CONTROL
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

WESTWOOD
23RD AVE & DEVONSHIRE
ST83140118

DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 06/24	DATE: 06/24	DATE: 06/24	G-2.01
SCALE: 1"=100' HORIZONTAL			

AMERICAN RESCUE PLAN ACT
 LOCAL DRAINAGE MITIGATION PROGRAM
 PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140118	29	42	
DATE: 06/24		AZTEC			
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

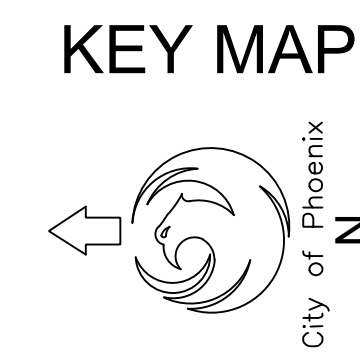
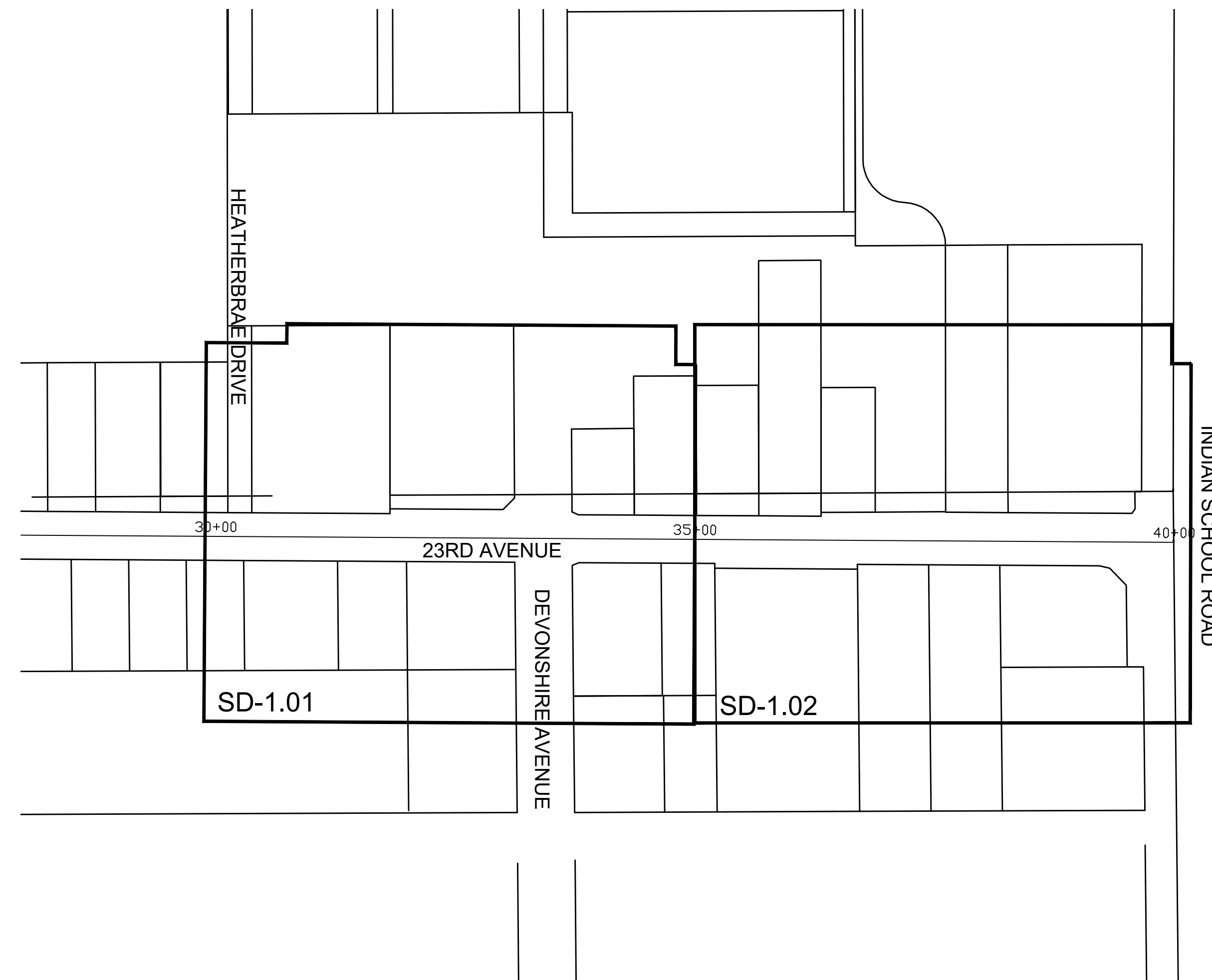
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

Q U A N T I T Y S U M M A R Y

ITEM No.	DESCRIPTION	UNIT	SHEET NUMBERS		TOTAL QTY
			SD-1.01	SD-1.02	
M3001002	SAWCUT & REMOVE EXISTING CURB & GUTTER	LF	115	35	150
M3001005	SAWCUT & REMOVE EXISTING SIDEWALK	SF	280	140	420
M3360224	SAWCUT, REMOVE AND REPLACE AC PAVEMENT, COP STD DET P-1200 MAG SPEC 336	SY	212	71	283
M3362002	SLURRY SEAL COAT	SY	1179	483	1662
M3400400	CONCRETE SIDEWALK, STD DETAIL P-1230	SF	280	140	420
M3402201	COMBINED CONCRETE CURB AND GUTTER, STD DETAIL 220, TYPE "A", H=6"	LF	115	35	150
M3400486	CONCRETE CURB RAMP, STD DETAILS P-1240-1, R = 20'	SF	247	0	247
M3500041	REMOVE PIPE	LF	4	0	4
M4201008	REMOVE AND REPLACE FENCE	EA	2	0	2
M5051575	CONCRETE CATCH BASIN, TYPE N, TRIPLE, COP STD DTL P1570	EA	2	1	3
M6012000	WATERLINE RELOCATION PER COP STANDARD P1370	EA	4	1	5
M6108010	RELOCATE FIRE HYDRANT, DET. P1360 AND P1362 AND P1359, P1361, AND MAG SPECIFICATION 610 AND COP SUPPLEMENTAL 756	EA	1	0	1
M6108015	RELOCATE WATER VALVE	EA	1	0	1
M6153013	STORM SEWER 6" CONCRETE ENCASEMENT	LF	92	47	139
M6181578	STORM SEWER LATERAL PIPE CONNECTION, COP STD DET P-1578	EA	0	1	1
M6185015	15" RGRCP, CLASS V, MAG STD DTL 507	LF	92	47	139
M6186002	15" X 15" X 15" PREFABRICATED TEE	EA	2	0	2
M6101805	WATER SERVICE CONNECTION (MAIN TO METER)	EA	4	1	5



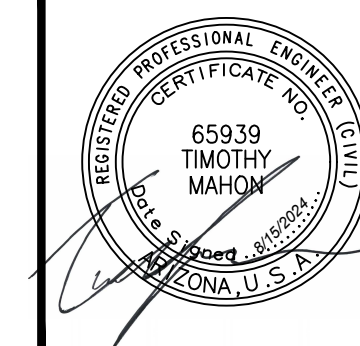
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QUANTITY SUMMARY
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

WESTWOOD
23RD AVE TO DEVONSHIRE
ST83140118

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 06/24	DATE: 06/24	DATE: 06/24	G-3.01
SCALE: NONE		HORIZONTAL	

AMERICAN RESCUE PLAN ACT
LOCAL DRAINAGE MITIGATION PROGRAM
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140118	30	42	
DATE: 12/23		DRAWN: LNB		DESIGN: CJR	CHECKED: TMM

REMOVAL/RELOCATION NOTES

NO	DESCRIPTION	UNIT	QTY
1	SAWCUT & REMOVE AC PAVEMENT PER COP STD DET P-1200 AND MAG SPEC 336	SY	212
2	SAWCUT & REMOVE EXISTING CURB AND GUTTER	LF	115
3	SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK	SF	280
4	REMOVE PIPE	LF	4

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	PAVEMENT REPLACEMENT PER COP STD DET P-1200 AND MAG SPEC 336	SY	212
2	CONCRETE CURB AND GUTTER, MAG STD DTL 220, TYPE A H-6"	LF	115
3	CONCRETE SIDEWALK, COP STD DTL P1230	SF	280
4	WATER RELOCATION PER COP STD DET P-1370; INSTALLATION OF 6" D.I.P. CLASS 350. POLYETHYLENE WRAP, PER COP SPECIFICATIONS 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 & 610.6.3, RESTRAINED JOINTS PER MAG DTL 303	EA	4
5	STORM SEWER 6" CONCRETE ENCASEMENT	LF	92
6	REMOVE AND REPLACE FENCE PER PLANS AND SPECIAL PROVISIONS	EA	2
7	WATER SERVICE CONNECTION (MAIN TO METER)	EA	4
8	RELOCATE WATER VALVE	EA	1
9	RELOCATE FIRE HYDRANT, DET. P1360 AND P1362 AND P1359, P1361, AND MAG SPECIFICATION 610 AND COP SUPPLEMENTAL 756	EA	1
10	20'R - RADIAL PARALLEL CURB RAMP, COP STD DTL P1240-1	SF	247
11	SLURRY SEAL COAT	SY	1179

CATCH BASIN & CONNECTOR PIPE

NO	INLET STATION	INLET TYPE	CONNECTION TYPE	PIPE SIZE	LF
1	30+58	Triple Type N P1570	PREFAB TEE	15"	46
2	32+94	Triple Type N P1570	PREFAB TEE	15"	46

REVISION BY CITY OF PHOENIX

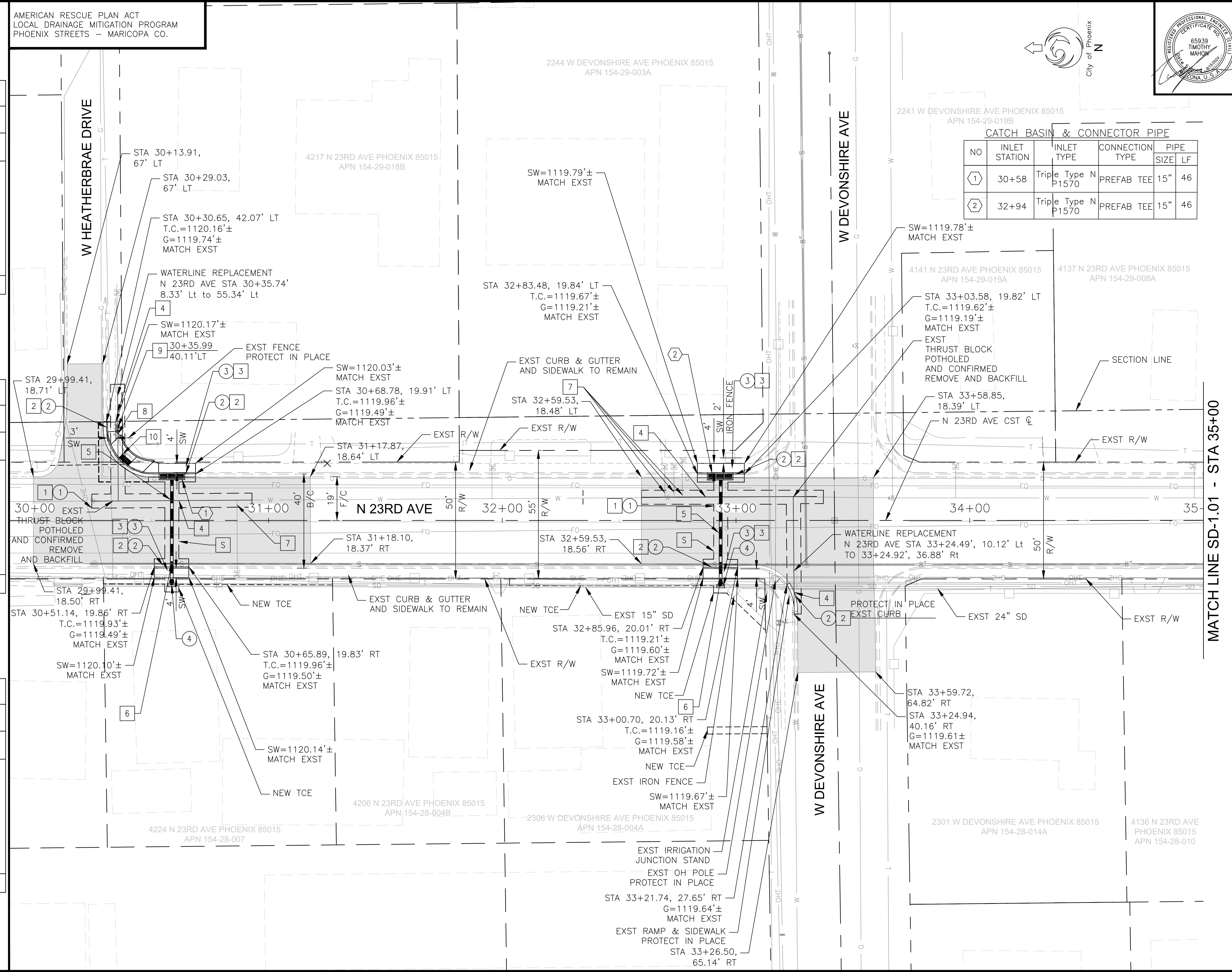
NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

DRAINAGE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

WESTWOOD
23RD AVE TO DEVONSHIRE
ST83140118

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23		DATE: 12/23	SCALE: 1"=20' HORIZONTAL
DATE: 12/23		DATE: 12/23	SD-1.01

AMERICAN RESCUE PLAN ACT
LOCAL DRAINAGE MITIGATION PROGRAM
PHOENIX STREETS - MARICOPA CO.

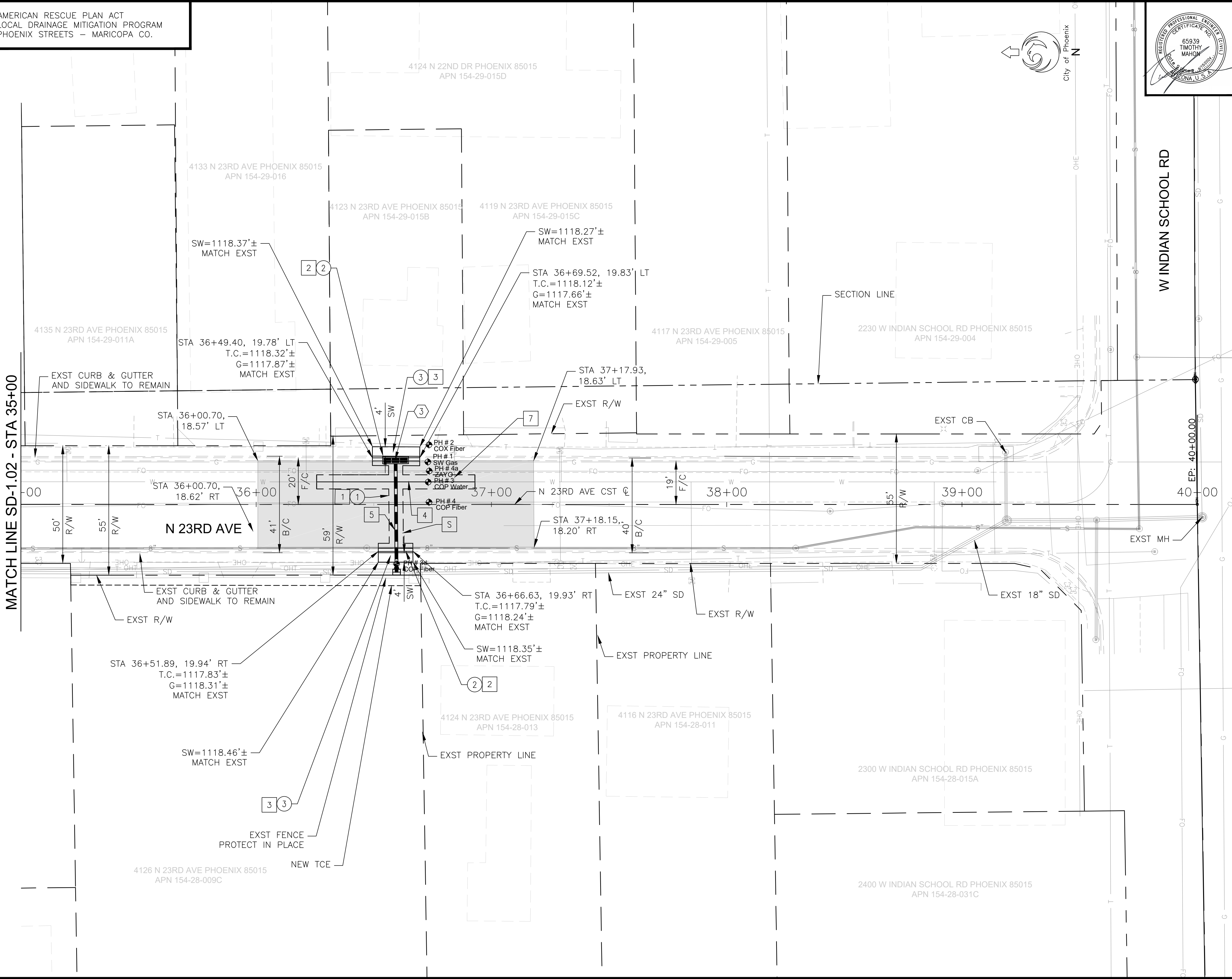


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140118	31	42	
DATE: 06/24		AZTEC			
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



REMOVAL/RELOCATION NOTES

NO	DESCRIPTION	UNIT	QTY
1	SAWCUT & REMOVE AC PAVEMENT PER COP STD DET P-1200 AND MAG SPEC 336	SY	71
2	SAWCUT & REMOVE EXISTING CURB AND GUTTER	LF	35
3	SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK	SF	140

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	PAVEMENT REPLACEMENT COP STD DET P-1200 AND MAG SPEC 336	SY	71
2	CONCRETE CURB AND GUTTER, MAG STD DTL 220, TYPE A H-6"	LF	35
3	CONCRETE SIDEWALK, COP STD DTL P1230	SF	140
4	WATER RELOCATION PER COP STD DET P-1370; INSTALLATION OF 6" D.I.P. CLASS 350. POLYETHYLENE WRAP, PER COP SPECIFICATIONS 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 & 610.6.3	EA	1
5	STORM SEWER 6" CONCRETE ENCASUREMENT	LF	47
7	WATER SERVICE CONNECTION (MAIN TO METER)	EA	1
11	SLURRY SEAL COAT	SY	483

CATCH BASIN & CONNECTOR PIPE

NO	INLET STATION	INLET TYPE	CONNECTION TYPE	PIPE SIZE	LF
3	36+59	Triple Type N P1570	COP STD DET P1578	15"	47


S SAWCUT

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

DRAINAGE PLANS
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
WESTWOOD
23RD AVE TO DEVONSHIRE
ST83140118

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 06/24	DATE: 06/24	DATE: 06/24	SD-1.02
SCALE: 1"=20' HORIZONTAL			

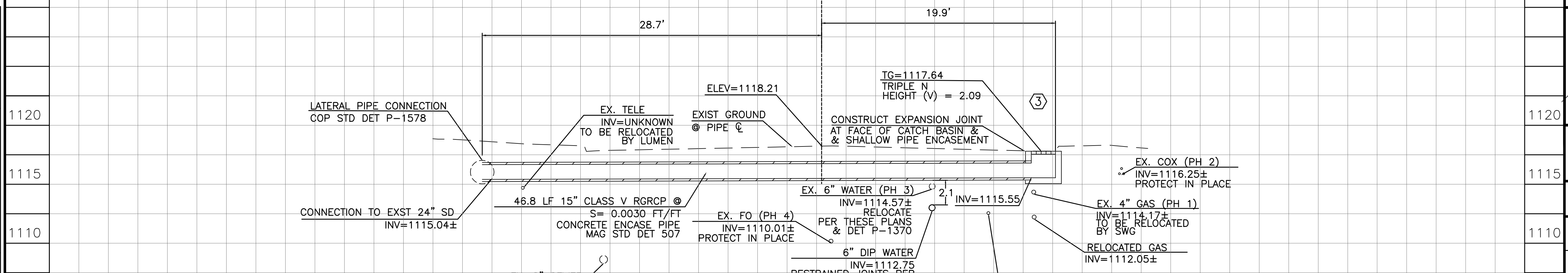
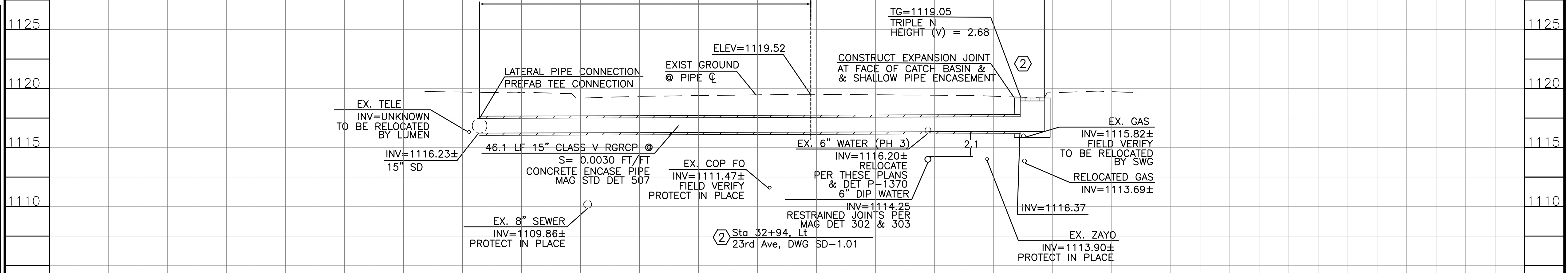
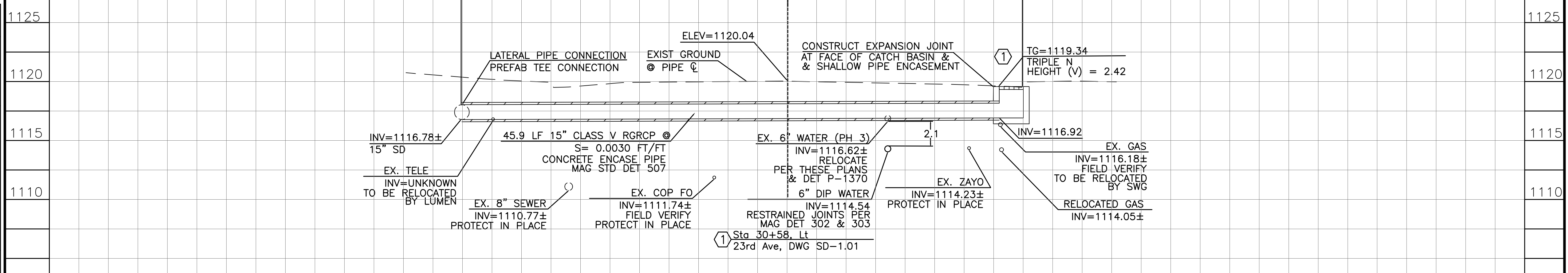
LOCAL DRAINAGE MITIGATION PROGRAM
PHOENIX STREETS - MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140118	32	42	
06/24					
DATE:					
DRAWN: LNB		DESIGN: CJR		CHECKED: TM	

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

NO.	DESCRIPTION	REV BY	CHKD BY	DATE



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1110	1110
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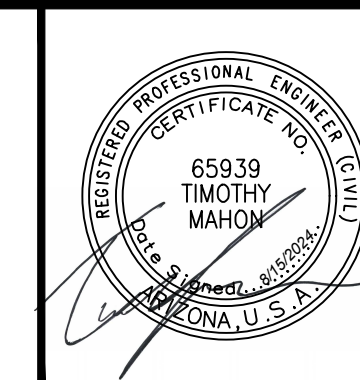


"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

CONNECTOR PIPE PROFILES
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
WESTWOOD
23RD AVE TO DEVONSHIRE
ST83140118

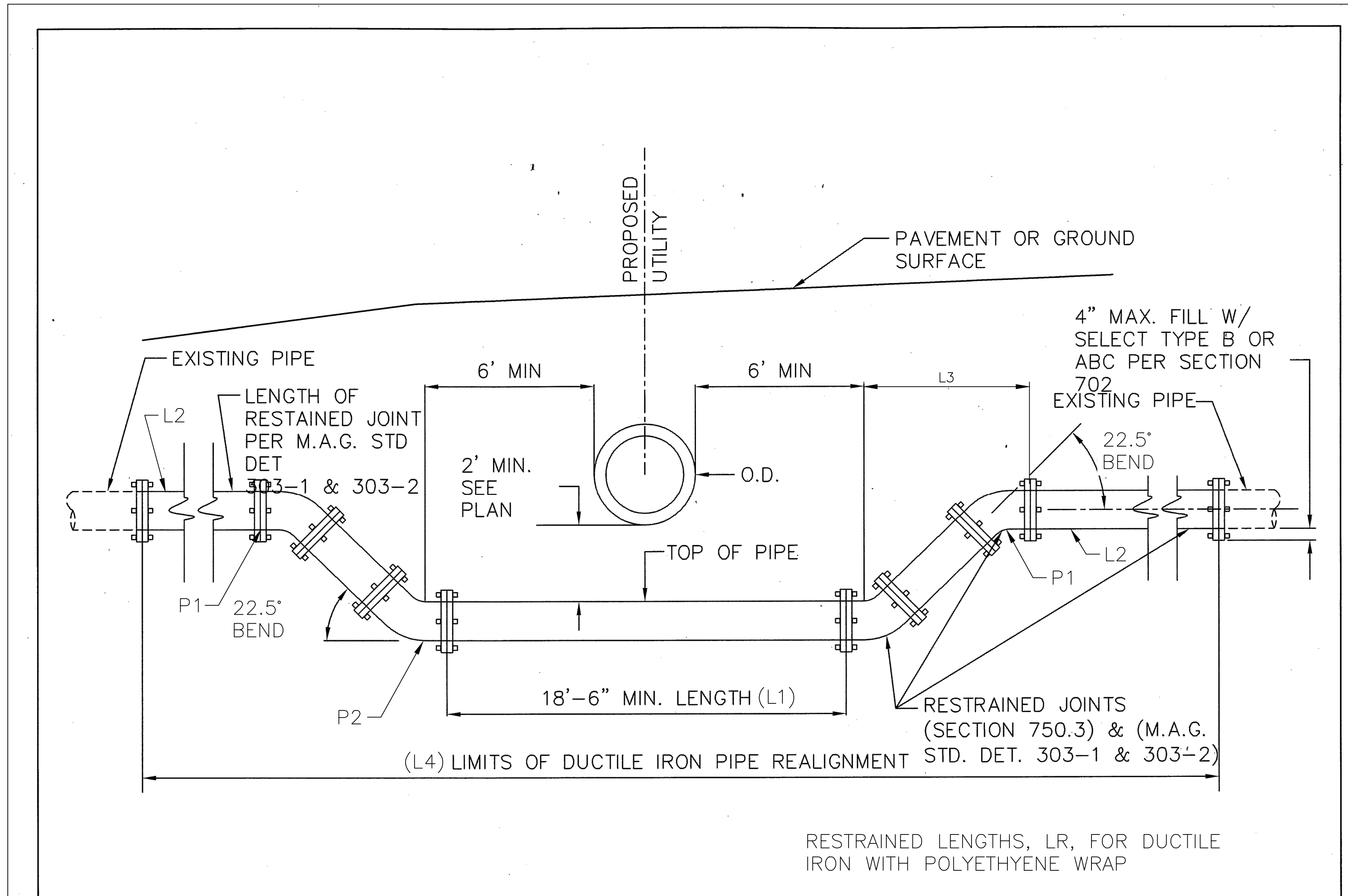
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DATE: 06/24	DATE: 06/24	DATE: 06/24	SD-2.01
SCALE: 1"=5'	HORIZONTAL	VERTICAL	

AMERICAN RESCUE PLAN ACT
 LOCAL DRAINAGE MITIGATION PROGRAM
 PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
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DATE: 06/24		AZTEC			
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

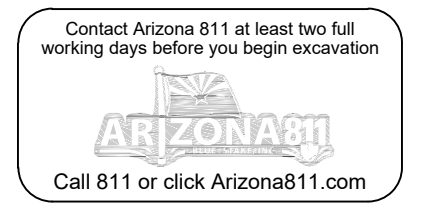
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
NO.				
NO.				
NO.				



DETAIL NO. P1370 **City of Phoenix** STANDARD DETAIL VERTICAL REALIGNMENT OF WATERLINE APPROVED *[Signature]* 12/10/2012 DATE **City Engineer** DETAIL NO. P1370

MODIFIED P-1370 WATERLINE REALIGNMENT (22.5 DEGREE ANGLE)

Location	P1 Elevation (ft)	P2 Elevation (ft)	L1 (ft)	L2 (ft)	L3 (ft)	L4 (ft)	Notes
Sta 30+58, 8.48' Lt	1116.62±	1114.54±	18.50	20.00	5.02	68.54	Waterline Dip
Sta 32+94, 9.92' Lt	1116.20±	1114.25±	18.50	20.00	4.71	67.92	Waterline Dip
Sta 36+59, 9.37' Lt	1114.57±	1112.75±	18.50	20.00	4.40	67.30	Waterline Dip
Sta 30+36, 8.33' Lt	1116.62±	1116.62±	N/A	N/A	N/A	47.00	Waterline Tee
Sta 33+24, 10.12' Lt	1116.20±	1116.20±	N/A	N/A	N/A	47.00	Waterline Tee



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WATERLINE RELOCATION
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
WESTWOOD
23RD AVE TO DEVONSHIRE
ST83140118

DR: LNB DES: CJR CK: TMM DRAWING SERIES NO.
 DATE: 06/24 DATE: 06/24 DATE: 06/24
 SCALE: HORIZONTAL SDD-1.01

AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

CITY OF PHOENIX

STREET TRANSPORTATION DEPARTMENT DESIGN & CONSTRUCTION MANAGEMENT DIVISION 2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 3 48TH PL & FLOWER ST DRAINAGE IMPROVEMENTS ST83140124

Project No.	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140124	35	42

WOOD PATEL
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

MAYOR
KATE GALLEGO

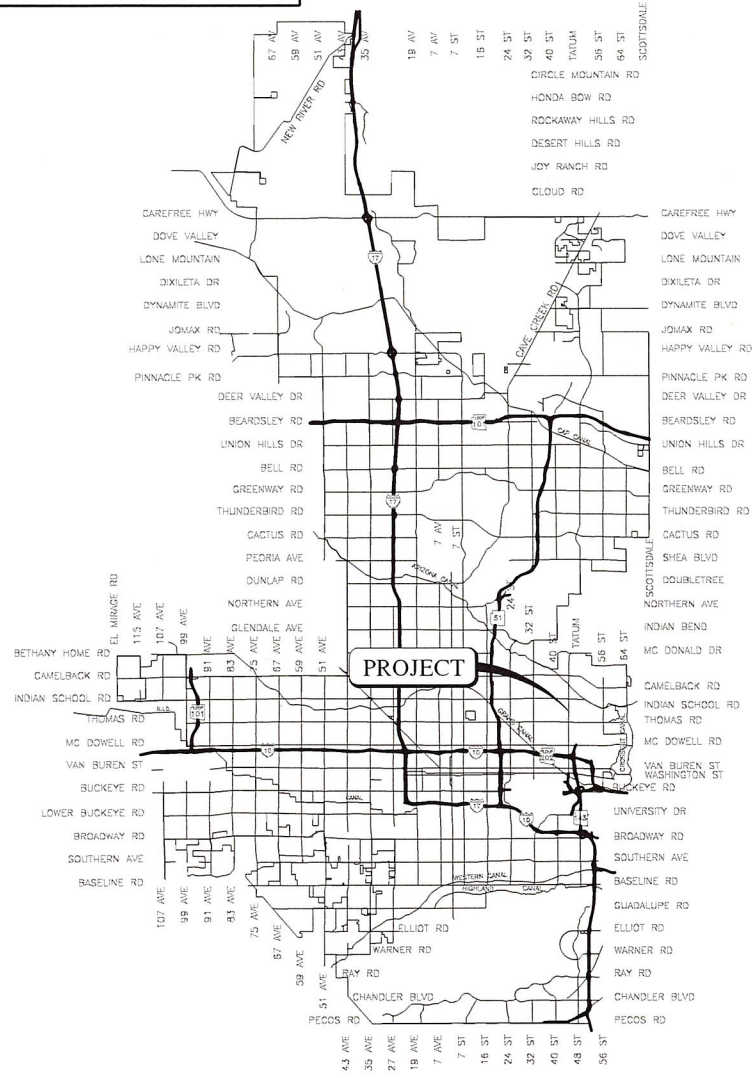
CITY COUNCIL
DISTRICT NO. 1 - ANN O'BRIEN
DISTRICT NO. 2 - JIM WARING
DISTRICT NO. 3 - DEBRA STARK
DISTRICT NO. 4 - LAURA PASTOR
DISTRICT NO. 5 - BETTY GUARDADO
DISTRICT NO. 6 - KEVIN ROBINSON
DISTRICT NO. 7 - CARLOS GALINDO-ELVIRA
DISTRICT NO. 8 - KESHA HODGE WASHINGTON

CITY MANAGER
JEFF BARTON

CITY ENGINEER
ERIC J. FROBERG, PE

INDEX OF SHEETS

35	COVER SHEET
36	NOTES
37	LEGEND & ABBREVIATIONS
38	QUANTITIES
39	GEOMETRIC CONTROL
40	PIPE PLAN & PROFILE
41	STORM DRAIN LATERAL PROFILE
42	DETAILS



VICINITY MAP
NTS



2024

LENGTH OF PROJECT:
400 FEET

AREA OF DISTURBANCE:
0.21 AC

APPROVALS

Eric J. Froberg
ERIC J. FROBERG, PE CITY ENGINEER
Nazar Nabaty
NAZAR NABATY, PE FLOODPLAIN ADMINISTRATOR
Dawn Heh
WATER SERVICES DEPARTMENT

10/18/24
DATE

10/18/2024
DATE

10/17/2024
DATE

ENGINEER & SURVEYOR

WOOD, PATEL & ASSOCIATES, INC.
2051 WEST NORTHERN AVE, SUITE 100
PHOENIX, ARIZONA 85021
PHONE: (602) 335-8500
FAX: (602) 335-8523
CONTACT: JEFF MINCH, PE, CFM
jminch@woodpatel.com

PUBLIC UTILITIES

WATER	CITY OF PHOENIX
SEWER	CITY OF PHOENIX
ELECTRIC	SRP & APS
TELEPHONE	CENTURYLINK
GAS	SOUTHWEST GAS
CABLE TV	COX COMMUNICATIONS
WASTE DISPOSAL	CITY OF PHOENIX

BASIS OF BEARING

NATIONAL GEODETIC SURVEY (NGS) GEODETIC NORTH BASED ON:
THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON INFORMATION OBTAINED FROM ON-LINE POSITIONING USER SERVICE-RAPID STATIC (OPUS-RS) PROVIDED BY THE NGS WEBSITE www.ngs.noaa.gov, OPUS RESULTS ON MARCH 23, 2023.
PROJECTION: ARIZONA CENTRAL ZONE, NAD 83, (EPOCH 2010)
DATUM: GRS-80
UNITS: INTERNATIONAL FEET
GEOID MODEL: GEOID 2018
SOLUTION: 202303091800_23o OP1679597997808
LATITUDE: 33° 29' 14.17985" N
LONGITUDE: 111° 58' 42.06809" W
ELLIPSOID HEIGHT: 343.225 METERS
DESCRIPTION: WOODPATEL CONTROL POINT# 100 - 1/2-INCH REBAR WITH TRAVERSE CAP
MODIFIED TO GROUND AT (GRID)
N: 904824.852 E: 681193.418, USING SCALE FACTOR OF 1.0001534005

BENCHMARK

THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON
CITY OF PHOENIX BENCHMARK #1096, A BRASS CAP IN HANDHOLE, LOCATED AT SOUTHWEST RETURN AT 48TH STREET AND THOMAS ROAD INTERSECTION, HAVING AN ELEVATION OF 1210.283 FEET CITY OF PHOENIX NGVD29 DATUM.
CITY OF PHOENIX BENCHMARK #1088, A BRASS CAP IN HANDHOLE AT THE INTERSECTION OF 44TH STREET AND OSBORN ROAD HAVING AN ELEVATION OF 1208.025 FEET CITY OF PHOENIX NGVD29 DATUM.

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.

COVER
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
2021 LOCAL DRAINAGE
MITIGATION PROGRAM
48TH PLACE & FLOWER STREET

DR: JT, VB, JT	DES: JT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	35	42	

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO				

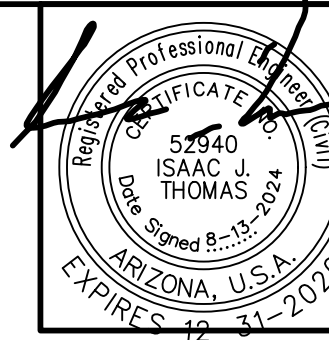
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO				

OS	15-39	SCALE:	35	42
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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM



FEDERAL REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140124	36	42

WOOD PATEL
Wood, Patel & Assoc., Inc.
 Civil Engineering
 Water Resources
 Land Survey
 Construction Management
 602.335.8500
 www.woodpatel.com

CITY OF PHOENIX 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 BID.
- 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 P-1576.
- 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 M.A.G. DETAIL 505. 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.
- THE CONTRACTOR SHALL CONFIRM EXISTING PIPE MATERIAL AT DESIGNATED CONNECTION POINTS PRIOR TO ORDERING ANY FITTINGS.
- 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.
- TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ARIZONA 811 TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON ARIZONA 811 SYSTEM.
- VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29
- 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 DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.
- UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:
- 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.
- UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABUT THE RW SHALL BE FILLED WITH 3" 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.

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

- A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- PLANNING AND DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- PER SECTION 6.8.7 OF THE CITY OF PHOENIX STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1.
- ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- PLAN APPROVAL IS VALID FOR 12 MONTHS. 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.

CITY OF PHOENIX OFFSITE NOTES

- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATION AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATION AND DETAILS.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX, PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL 9-1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- TREES AND SHRUBBERY IN THE RIGHT OF WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501 AND TRANSPORTATION DEPARTMENT AT (602) 534-9898.
- PER THE CITY OF PHOENIX ORDINANCE G-6308. ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.

CITY OF PHOENIX PAVING NOTES

- ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
- CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.
- THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREETLIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
- AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT- OF- WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF - [HTTPS://WWW.PHOENIX.GOV/STREETS/TRAFFIC-MANAGEMENT](https://www.phoenix.gov/streets/traffic-management)
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHKD BY	DATE
NO				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHKD BY	DATE
NO				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHKD BY	DATE
NO				

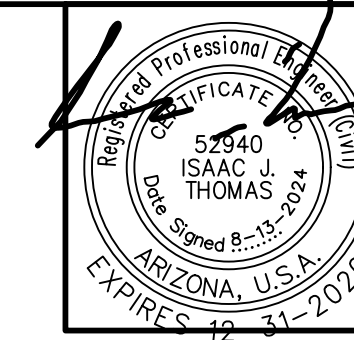


PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

NOTES					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE					
MITIGATION PROGRAM					
48TH PLACE & FLOWER STREET					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24		36	42
SCALE:				36	42

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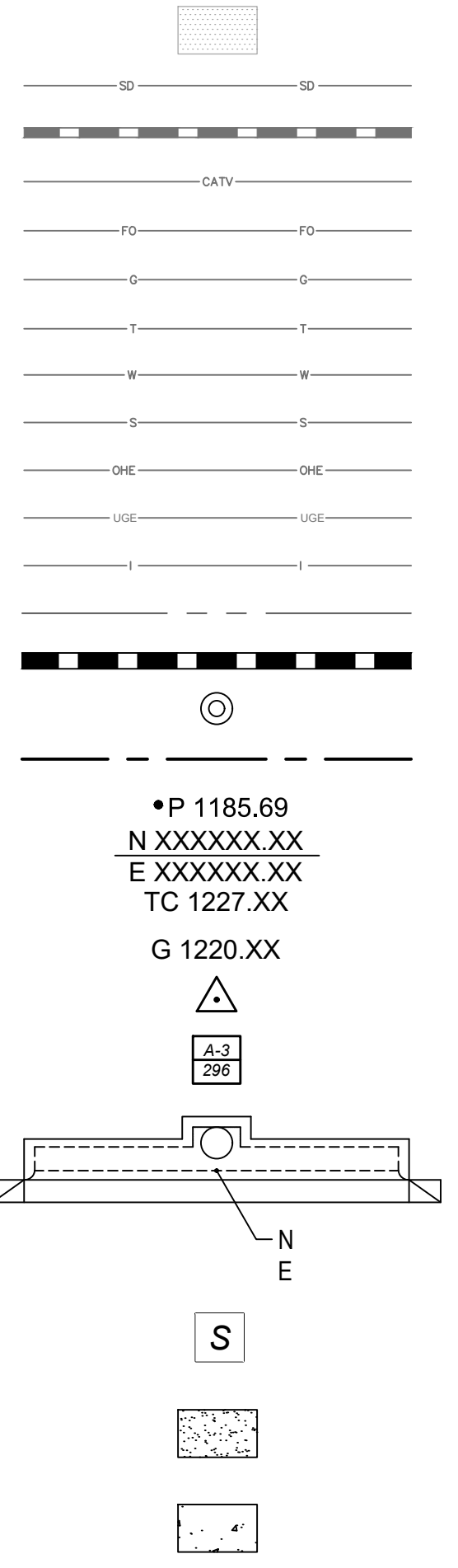
AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM



FEDERAL REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140124	37	42

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LEGEND



EXISTING CONCRETE
 EXISTING STORM DRAIN
 EXISTING STORM DRAIN (>12")
 EXISTING CABLE TV LINE
 EXISTING FIBER OPTIC LINE
 EXISTING GAS LINE
 EXISTING TELEPHONE LINE
 EXISTING WATER LINE
 EXISTING SEWER LINE
 EXISTING OVERHEAD ELECTRIC
 EXISTING UNDERGROUND ELECTRIC
 EXISTING IRRIGATION LINE
 APPROX PROPERTY LINE
 PROPOSED STORM DRAIN
 PROPOSED STORM DRAIN MANHOLE
 MONUMENT LINE
 PROPOSED PAVEMENT ELEVATION
 PROPOSED NORTHING AND EASTING
 PROPOSED TOP OF CURB ELEVATION
 PROPOSED GUTTER ELEVATION
 PROJECT BENCHMARK
 BACKFILL TYPE & SQ YD PVMT REPLACEMENT
 COP DETAIL P-1200 AND SPECIAL PROVISIONS
 NEW CATCH BASIN CURB & GUTTER INLET
 COORDINATES TO CENTERLINE OF MAINTENANCE BASIN
 AT BACK OF CURB
 SAWCUT
 PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT
 PROPOSED GRAVEL MULCH

ABBREVIATIONS

AC ASPHALT CONCRETE
 APPROX APPROXIMATELY
 AVE AVENUE
 B/C BACK OF CURB
 BCF BRASS CAP FLUSH
 BCH BRASS CAP HANDHOLE
 CCP CYLINDRICAL CONCRETE PIPE
 CIP CAST-IN-PLACE
 CL CENTER LINE
 CONC CONCRETE
 COP CITY OF PHOENIX
 CST CONSTRUCTION
 CATV CABLE TV
 DIP DUCTILE IRON PIPE
 E/P EDGE OF PAVEMENT
 ELEV ELEVATION
 EST ESTIMATED
 EX EXISTING
 FO FIBER OPTIC
 FT FEET / FOOT
 G GUTTER
 GB GRADE BREAK
 HORZ HORIZONTAL
 IN INCH
 LF LINEAR FEET
 MAG MARICOPA ASSOCIATION OF GOVERNMENTS
 ML MONUMENT LINE
 NTS NOT TO SCALE
 PH# POTHOLE NUMBER
 PIP PROTECT IN PLACE
 PL PLACE
 PR PROPOSED
 RCBC REINFORCED CONCRETE BOX CULVERT
 RCP REINFORCED CONCRETE PIPE
 REL RELOCATE
 RD ROAD
 RGRCP CL III RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS III
 RGRCP CL IV RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS IV
 RJ RESTRAINED JOINT
 ROW RIGHT OF WAY
 S SEWER
 S/W SIDEWALK
 SD STORM DRAIN
 SS SANITARY SEWER
 ST STREET
 STL STEEL
 T TELECOMMUNICATIONS
 T-ABAND TELECOMMUNICATIONS - ABANDONED
 T-CABLE TELECOMMUNICATIONS - CABLE
 T-DUCT TELECOMMUNICATIONS - DUCT
 TC TOP OF CURB
 TYP TYPICAL
 VERT VERTICAL
 VG VALLEY GUTTER
 W or WA WATER
 W/ WITH

ENGINEER'S NOTES

- CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH FINAL SITE PLAN AND FINAL BUILDING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES TO OWNER'S AGENT.
- COORDINATION BETWEEN ALL PARTIES IS ESSENTIAL PART OF CONTRACT.
- CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS AS THE PROJECT SITE MAY BE LOCATED IN A FLOOD PRONE AREA AND SUBJECT TO FLOODING AND ITS HAZARDS.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE UTILITY CROSSINGS AT CULVERT CROSSINGS BEFORE STARTING WORK ON CULVERT. COORDINATE WITH OWNER REPRESENTATIVE. VERIFY UTILITY LINES AND/OR CONDUITS ARE IN PLACE BEFORE STARTING CULVERT WORK.
- THIS PROJECT REQUIRES A REGULAR ONGOING MAINTENANCE PROGRAM FOR THE DESIGNED DRAINAGE SYSTEM(S) TO PRESERVE THE DESIGN INTEGRITY AND THE ABILITY TO PERFORM ITS OPERATIONAL INTENT. FAILURE TO PROVIDE MAINTENANCE WILL JEOPARDIZE THE DRAINAGE SYSTEM(S)' PERFORMANCE AND MAY LEAD TO IT'S INABILITY TO PERFORM PROPERLY AND/OR CAUSE DAMAGE ELSEWHERE IN THE PROJECT.

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
 GENERAL CONSTRUCTION NOTES**

- ALL WORK PERFORMED WITHIN FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (DISTRICT) RIGHTS-OF-WAY (ROW) SHALL CONFORM TO THE LATEST DISTRICT STANDARD PROCEDURES AND DETAILS AS PUBLISHED ON THE DISTRICT'S WEB SITE.
- THE PERMITTEE SHALL OBTAIN A COPY OF THE EXECUTED DISTRICT ROW USE PERMIT PRIOR TO COMMENCEMENT OF WORK WITHIN DISTRICT RIGHT-OF-WAY, MAINTAIN A COPY OF THE PERMIT AND STAMPED APPROVED PLANS ON THE PROJECT SITE AT ALL TIMES, AND SHALL BE AVAILABLE UPON REQUEST.
- THE PERMITTEE SHALL NOTIFY THE DISTRICT'S ASSIGNED OPERATIONS AND MAINTENANCE (O&M) INSPECTOR OR DAM SAFETY INSPECTOR AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY EXCAVATION, BACKFILL, SLURRY, CONCRETE, AND/OR RIPRAP PLACEMENT BEING PERFORMED WITHIN THE DISTRICT'S ROW. REFER TO THE EXECUTED DISTRICT PERMIT FOR THE O&M INSPECTOR'S CONTACT INFORMATION. IF WORK IS IMPACTING A DISTRICT LEVEE, DAM OR FLOOD RETARDING STRUCTURE (FRS), REFER TO THE EXECUTED DISTRICT PERMIT FOR THE LEVEE/DAM SAFETY INSPECTOR'S CONTACT INFORMATION.
- THE PERMITTEE PERFORMING EXCAVATION OPERATIONS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES. TO EXPEDITE THIS PROCESS, THE PERMITTEE SHALL CALL ARIZONA 811 (FORMALLY ARIZONA BLUE STAKE) AT 811 OR 1-800-782-5348 TO IDENTIFY UNDERGROUND UTILITIES AT LEAST 48 HOURS IN ADVICE PRIOR TO START OF THE WORK.
- ANY DAMAGE OR DISTURBANCE TO DISTRICT STRUCTURES, EQUIPMENT, MATERIALS, VEGETATION, OR SURROUNDING DISTRICT ROW SHALL BE REPLACED OR REPAIRED, IN-KIND, TO THE SATISFACTION OF THE DISTRICT'S O&M INSPECTOR OR LEVEE/DAM SAFETY INSPECTOR.
- IN THE EVENT THE TERMS AND CONDITIONS IN THE DISTRICT'S PERMIT ARE NOT CONSISTENT WITH THE DISTRICT-APPROVED PLANS, THE DISTRICT'S PERMIT WILL HAVE PRECEDENCE.
- IN ORDER TO CLOSE OUT THE DISTRICT'S PERMIT AND RELEASE PERFORMANCE BONDS, ALL WORK (INCLUDED ASSOCIATED PUNCH-LIST ITEMS) MUST BE COMPLETED IN FULL TO THE SATISFACTION OF THE DISTRICT'S INSPECTOR AND ENGINEER. CERTIFIED AS-BUILT PLANS ALONG WITH REQUIRED QUALITY ASSURANCE TESTS MUST BE PROVIDED AND ACCEPTED BY THE DISTRICT, AND ALL EASEMENTS REQUIRED BY THE PROJECT MUST BE RECORDED PRIOR TO PERMIT CLOSEOUT. IF THE WORK ONLY INVOLVES GEOTECHNICAL ANALYSIS, SITE INVESTIGATIONS, SURVEYS, OR FLOOD RELATED STUDIES, THEN FINALIZED REPORTS, STUDIES AND/OR SURVEY PLANS MUST BE PROVIDED AND ACCEPTED BY THE DISTRICT PRIOR TO PERMIT CLOSEOUT.

ENGINEER'S NOTES

- MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTALS THEREOF PER THE LOCAL TOWN OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR ENTIRETY.
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT.
- THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
- THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY AND MIGHT NOT REFLECT THE ACTUAL QUANTITIES AND SITE CONDITIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.

ENGINEER'S NOTES

- A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 811, 48 HOURS PRIOR TO ANY EXCAVATION FOR BLUE STAKE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
- ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT FILL AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL BE AWARE THAT CERTAIN UTILITIES REQUIRE PROPER ATTENTION AND CAREFUL PLANNING DURING SITE CONSTRUCTION. PLEASE NOTE THAT UTILITIES ON THESE PLANS MAY NOT EXHIBIT THE FULL PROTECTIVE COVER REQUIRED DURING THE SUBGRADE PREPARATION PHASE OF THE CONSTRUCTION. IN SUCH INSTANCES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL PROTECTION (SUCH AS RAMPING) OR INCREASED PIPE STRENGTH TO PROVIDE THE NECESSARY PROTECTION REQUIRED TO PREVENT DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL HOLD THE ENGINEER HARMLESS IN ALL CASES FOR DAMAGES TO UTILITIES WHERE INADEQUATE PROTECTIVE MEASURES OCCUR.
- THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.

REVISION BY CITY OF PHOENIX	REV BY	CKD BY	DATE
DESCRIPTION			
NO			

REVISION BY CITY OF PHOENIX	REV BY	CKD BY	DATE
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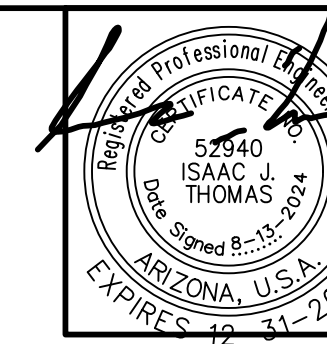
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DESCRIPTION			
NO			

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.

LEGEND & ABBREVIATIONS					
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE MITIGATION PROGRAM 48TH PLACE & FLOWER STREET					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24		37	42
SCALE:					

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM



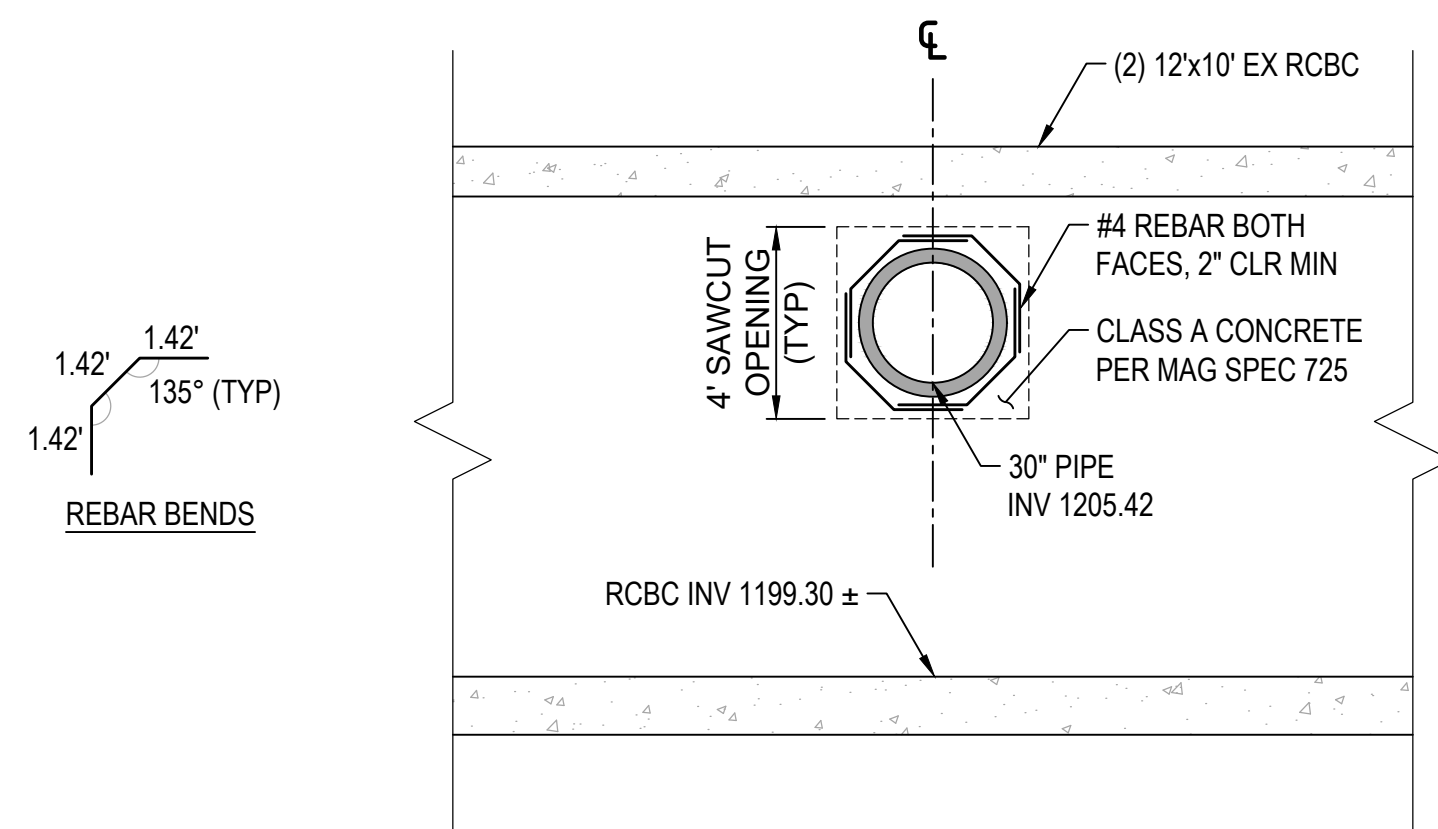
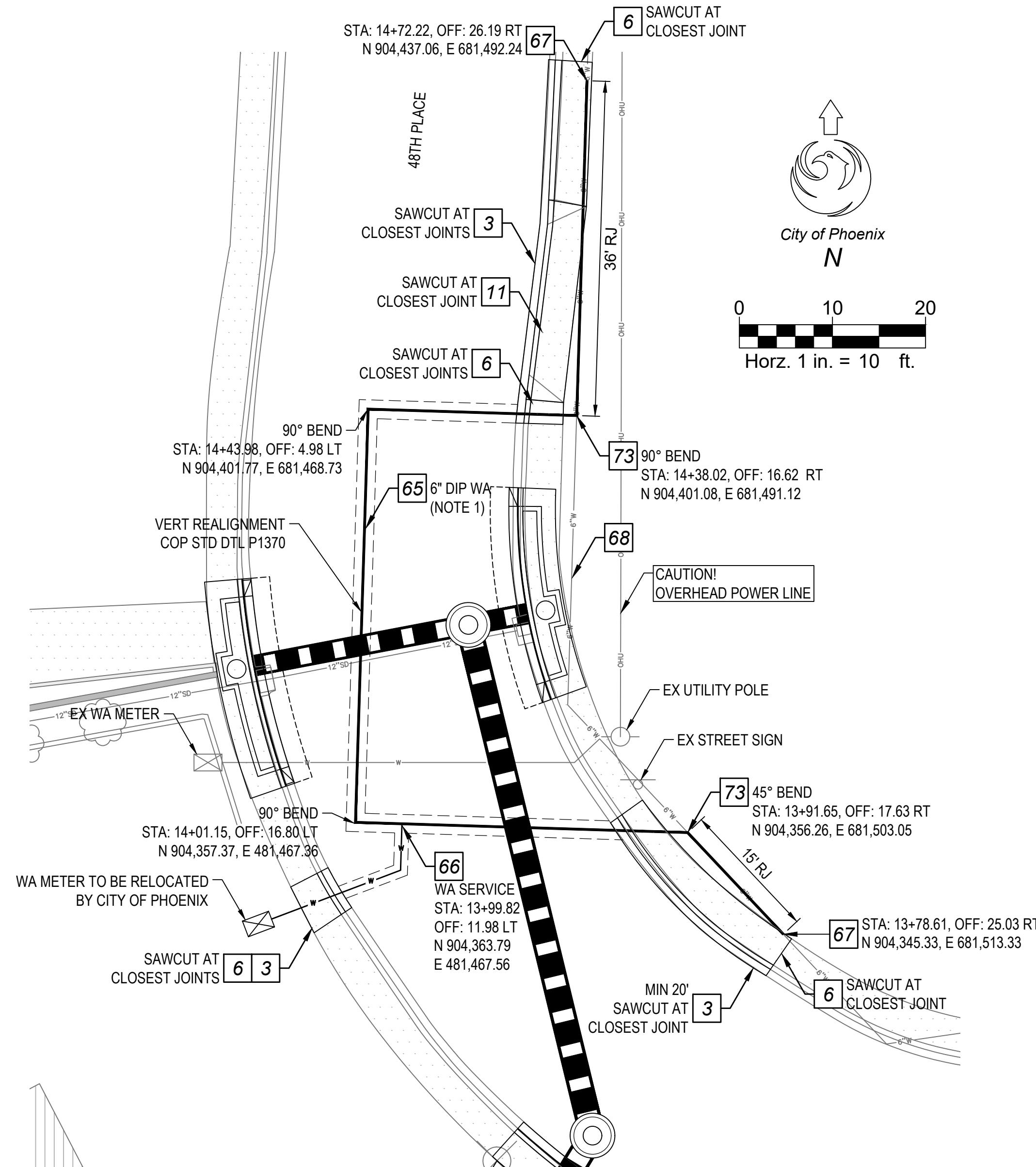
FEDERAL REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140124	38	42

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ITEM NO.	DESCRIPTION	UNIT	QUANTITY
M3001004	SAWCUT & REMOVE EXISTING APRON	SF	743
M3100001	AGGREGATE BASE COURSE, 8" THICK	CY	5
M3240060	PORTLAND CEMENT CONCRETE PAVEMENT, CLASS B, 5" THICK	SF	2,549
M3360210	SAWCUT, REMOVE AND REPLACE AC PAVEMENT	SY	11
M3363400	APPLY COOL PAVEMENT ASPHALT TREATMENT	SY	345
M3369795	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 5" THICK, PER SPECIAL PROVISIONS	SY	56
M3369796	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS	SY	56
M3370100	CRACK SEALING	SY	345
M3370103	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT ER MAG SPEC 331, AND SPECIAL PROVISIONS	SY	140
M3400400	CONCRETE SIDEWALK, SUPP DETAIL P1230	SF	195
M3400563	RESIDENTIAL CONCRETE DRIVEWAY ENTRANCE, SUPP DETAIL P1255-2, 6" THICK	SF	167
M3402201	COMBINED CONCRETE CURB AND GUTTER, STD DETAIL 220, TYPE "A", H=6"	LF	124
M3402202	COMBINED CONCRETE CURB AND GUTTER, STD DETAIL 220, TYPE "A", H=4"	LF	59
M3500020	REMOVE PORTLAND CEMENT CONCRETE SIDEWALK & DRIVEWAY	SF	2,549
M3500042	REMOVE EXISTING 12" STORM DRAIN PIPE AND PLUG PIPE	LF	30
M3500043	REMOVE EXISTING CATCH BASIN	EA	2
M3500106	REMOVE EXTRUDED CURB	LF	60
M3500642	ABANDON-IN-PLACE & PLUG 6" WATERLINE (FILL WITH LOW STRENGTH GROUT)	LF	50
M4200033	REMOVE AND REPLACE BLOCK WALL	SF	178
M4304012	DECOMPOSED GRANITE (MATCH EXISTING)	SY	62
M4304099	MISCELLANEOUS LANDSCAPE AND IRRIGATION RESTORATION	LS	1
M4321003	REMOVE AND REPLACE ORANGE TREES	EA	3
M5051554	CONCRETE CATCH BASIN, TYPE "M-2, L=10-FT, L=6-FT", PHX SUPP DETAIL P-1569	EA	2
M5052075	CONCRETE APRON	SF	743
M6014029	PERMANENT PIPE SUPPORT, MAG STD DTL 403-1	EA	1
M6100341	1-INCH WATER SERVICE REPLACEMENT	LF	20
M6101206	CONNECTION TO EXISTINGS 6" WATERLINE	EA	2
M6101850	ALLOWANCE FOR EXCESS DUCTILE IRON FITTINGS, FURNISH AND INSTALL	JOB	1
M6103006	6" MECHANICAL JOINT DUCTILE IRON WATER PIPE & FITTINGS, FURNISH & INSTALL	LF	138
M6104300	CUTTING AND PLUGGING EXISTING WATERLINE	EA	2
M6180024	24" STORM SEWER PIPE (RGRCP CLASS III)	LF	33
M6180030	30" STORM SEWER PIPE (RGRCP CLASS IV)	LF	356
M6250005	48" STORM DRAIN MANHOLE, MAG STD DTL 522, COP STD DTL P1520	EA	4
M6257002	CONNECT STORM SEWER LATERAL TO EXISTING BOX CULVERT PER PLAN	EA	1

REMOVAL & CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
3	COMBINED CONCRETE CURB AND GUTTER, STD DETAIL 220, TYPE "A", H=6"	LF	104
6	CONCRETE SIDEWALK, SUPP DETAIL P1230 (M3400400)	SF	121
11	RESIDENTIAL CONCRETE DRIVEWAY ENTRANCE, SUPP DETAIL P1255-2, 6" THICK (M3400563)	SF	88
65	CONSTRUCT HORIZONTAL AND VERTICAL REALIGNMENT OF EXISTING 6" WATERLINE WITH 6" MECHANICAL JOINT DUCTILE IRON WATER PIPE & FITTINGS, FURNISH & INSTALL (M6103006)	LF	138
66	CONSTRUCT 1-INCH WATER SERVICE REPLACEMENT PER COP STD DTL P-1342 (M6100341)	LF	20
67	CONNECTION TO EXISTING 6" WATERLINE (M6101206)	EA	2
68	ABANDON-IN-PLACE & PLUG 6" WATERLINE (FILL WITH LOW STRENGTH GROUT) (M3500642)	LF	50
73	CUTTING AND PLUGGING EXISTING WATERLINE (M6104300)	EA	2



1 RCBC CONNECTION DETAIL
SCALE: 1" = 4'

NOTE:
1. ALL JOINTS SHALL BE RESTRAINED PER MAG STD DTL 303-1 & 303-2 AND COP SUPPLEMENT TO MAG SPEC SECTION 750.3

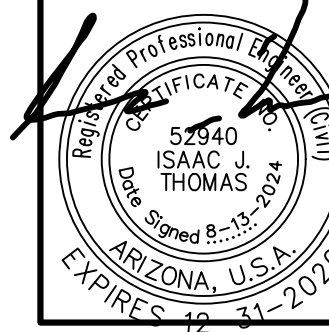
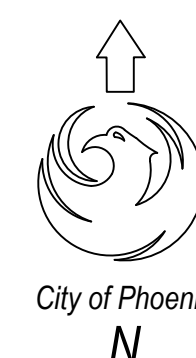
2 6" WATER LINE RELOCATION DETAIL
SCALE: 1" = 10'

QUANTITIES & DETAILS
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
2021 LOCAL DRAINAGE
MITIGATION PROGRAM
48TH PLACE & FLOWER STREET

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	NO:	42	
SCALE:			38	42	

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AMERICAN RESCUE PLAN ACT (ARPA)
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2021 LOCAL DRAINAGE MITIGATION PROGRAM



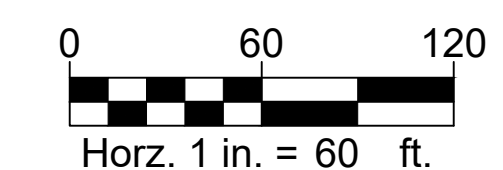
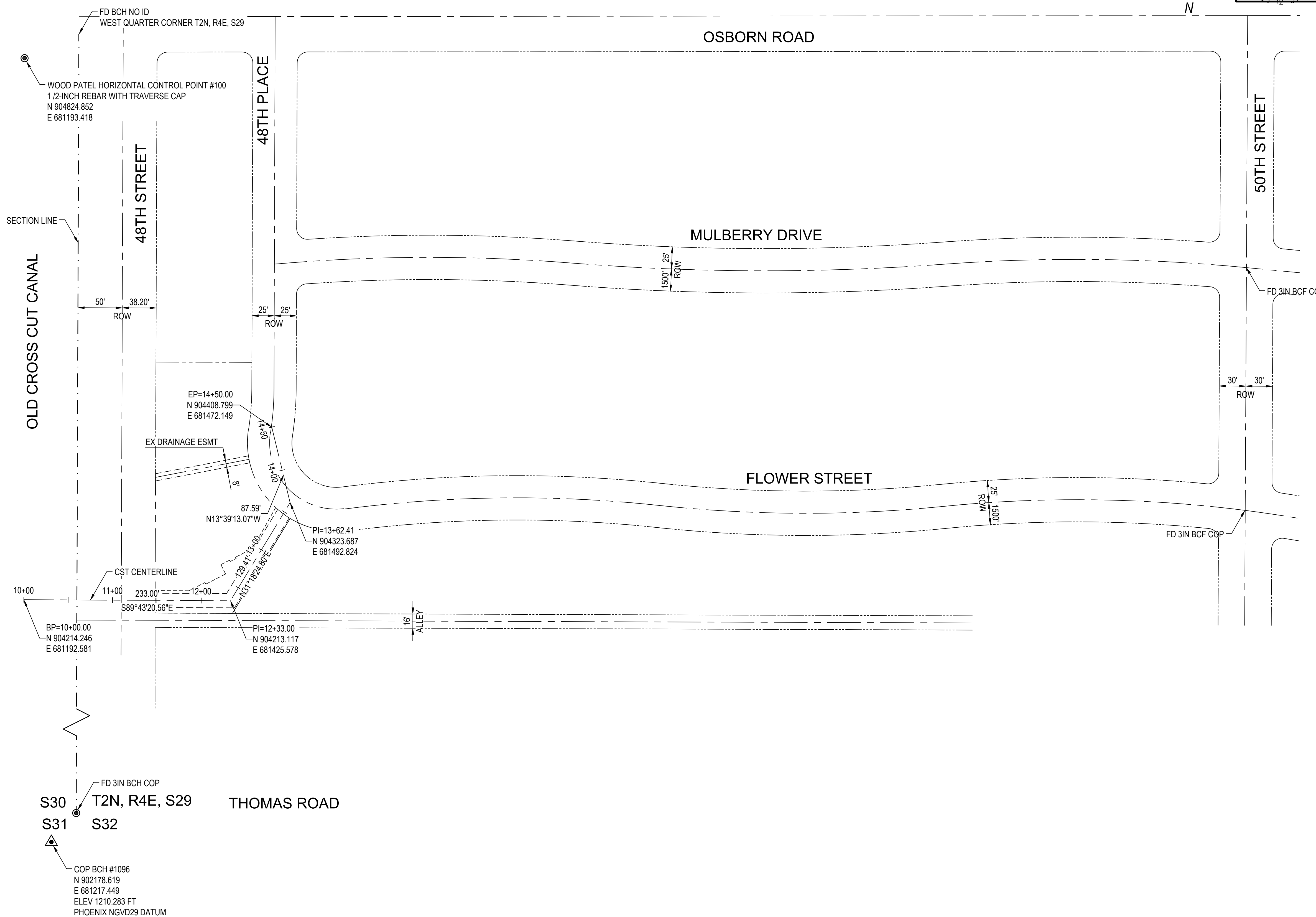
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REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				



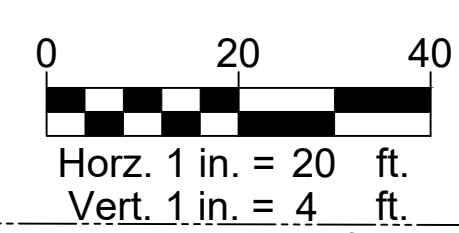
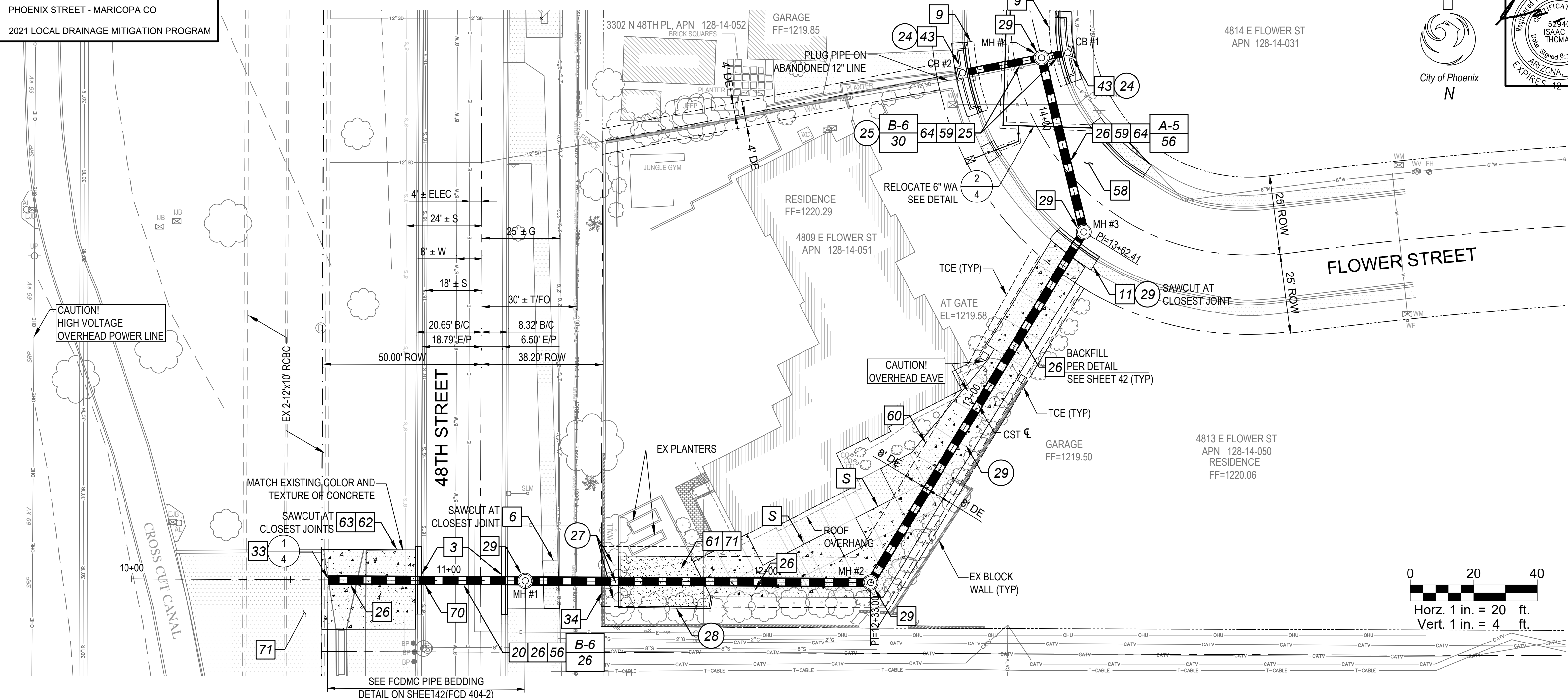
PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

GEOMETRIC CONTROL
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
2021 LOCAL DRAINAGE MITIGATION PROGRAM
48TH PLACE & FLOWER STREET

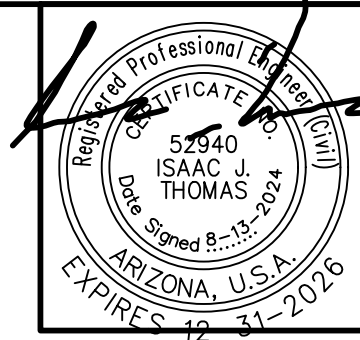
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DATE: 8/24	DATE: 8/24	DATE: 8/24	NO:	42	
SCALE: 1" = 60'			39	42	

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM



City of Phoenix
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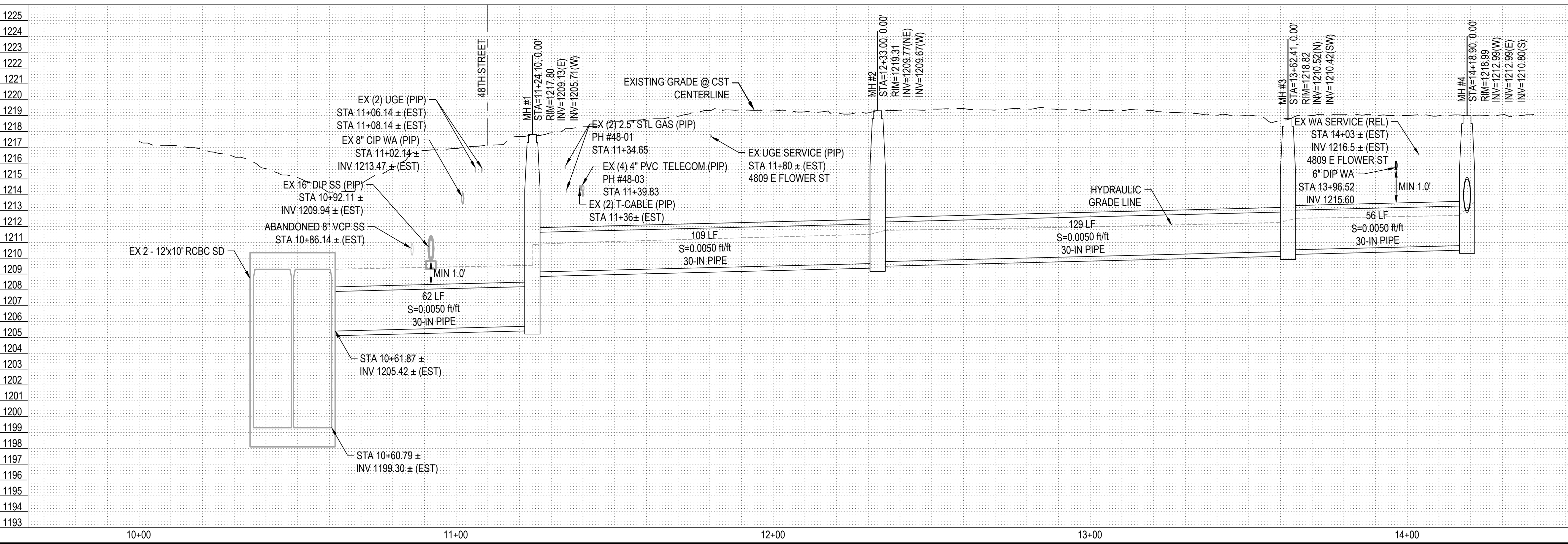


REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140124	40	42

WOOD PATEL
Wood, Patel & Assoc., Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

REMOVAL & CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
24	REMOVE EXISTING CATCH BASIN (M3500043)	EA	2
25	REMOVE EXISTING 12" STORM DRAIN PIPE AND PLUG PIPE TO WEST (M3500042)	LF	30
27	REMOVE AND REPLACE ORANGE TREES (M4321003)	EA	3
28	REMOVE EXTRUDED CURB (M3500106)	LF	60
29	REMOVE PORTLAND CEMENT CONCRETE SIDEWALK & DRIVEWAY (M3500020)	SF	2,549
3	COMBINED CONCRETE CURB AND GUTTER, STD DETAIL 220, TYPE "A", H=6" (M3402201)	LF	20
6	CONCRETE SIDEWALK, SUPP DETAIL P1230 (M3400400)	SF	74
9	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT PER SPECIAL PROVISIONS (M3360212)	SY	11
11	RESIDENTIAL CONCRETE DRIVEWAY ENTRANCE, SUPP DETAIL P1255-2, 6" THICK (M3400563)	SF	79
20	AGGREGATE BASE COURSE, GREATER OF 8" THICK OR MATCH EXIST (M3100001)	CY	5
25	24" STORM SEWER PIPE (RGRCP CLASS III) (M6180024)	LF	33
26	30" STORM SEWER PIPE (RGRCP CLASS IV) (M6180030)	LF	356
29	STORM SEWER MANHOLE, MAG STANDARD DETAIL 522, COP SUPP. STD. DETAIL P-1520 (M6250005)	EA	4
33	CONNECT STORM SEWER LATERAL TO EXISTING BOX CULVERT PER PLAN (M4200033)	EA	1
34	REMOVE AND REPLACE BLOCK WALL (M5051554)	SF	178
43	CONCRETE CATCH BASIN, TYPE "M-2, L=10-FT, L=6-FT", PHX SUPP DETAIL P-1569 (M5051554)	EA	2
56	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT PER MAG SPEC 331, AND SPECIAL PROVISIONS (M3370103)	SY	140
58	APPLY COOL PAVEMENT ASPHALT TREATMENT PER SPECIAL PROVISIONS (M3363400)	SY	345
59	COMBINED CONCRETE CURB AND GUTTER, STD DETAIL 220, TYPE "A", H=4" (M3402202)	LF	59
60	PORTLAND CEMENT CONCRETE PAVEMENT, CLASS B, 6" THICK (M3240060)	SF	2,549
61	DECOMPOSED GRANITE (MATCH EXISTING) (M4304012)	SY	62
62	SAWCUT & REMOVE EXISTING APRON (M3001004)	SF	743
63	CONCRETE APRON (M5052075)	SF	743
64	CRACK SEALING (M3370100)	SY	345
70	PERMANENT PIPE SUPPORT, MAG STD DTL 403 (M6014029)	EA	1
71	MISCELLANEOUS LANDSCAPE AND IRRIGATION RESTORATION (M4304099)	LS	1
A-5	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 5" THICK, PER SPECIAL PROVISIONS (M3369795)	SY	56
B-6	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS (M3369796)	SY	56



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**PLAN & PROFILE
48TH PL & FLOWER ST
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT**

**2021 LOCAL DRAINAGE
MITIGATION PROGRAM
48TH PLACE & FLOWER STREET**

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	NO:	42	

SCALE: Horz. 1" = 20' Vert. 1" = 4'

NO	DESCRIPTION	REV BY	CKD BY	DATE

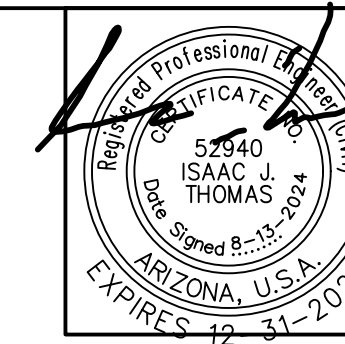
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NO	DESCRIPTION	REV BY	CKD BY	DATE

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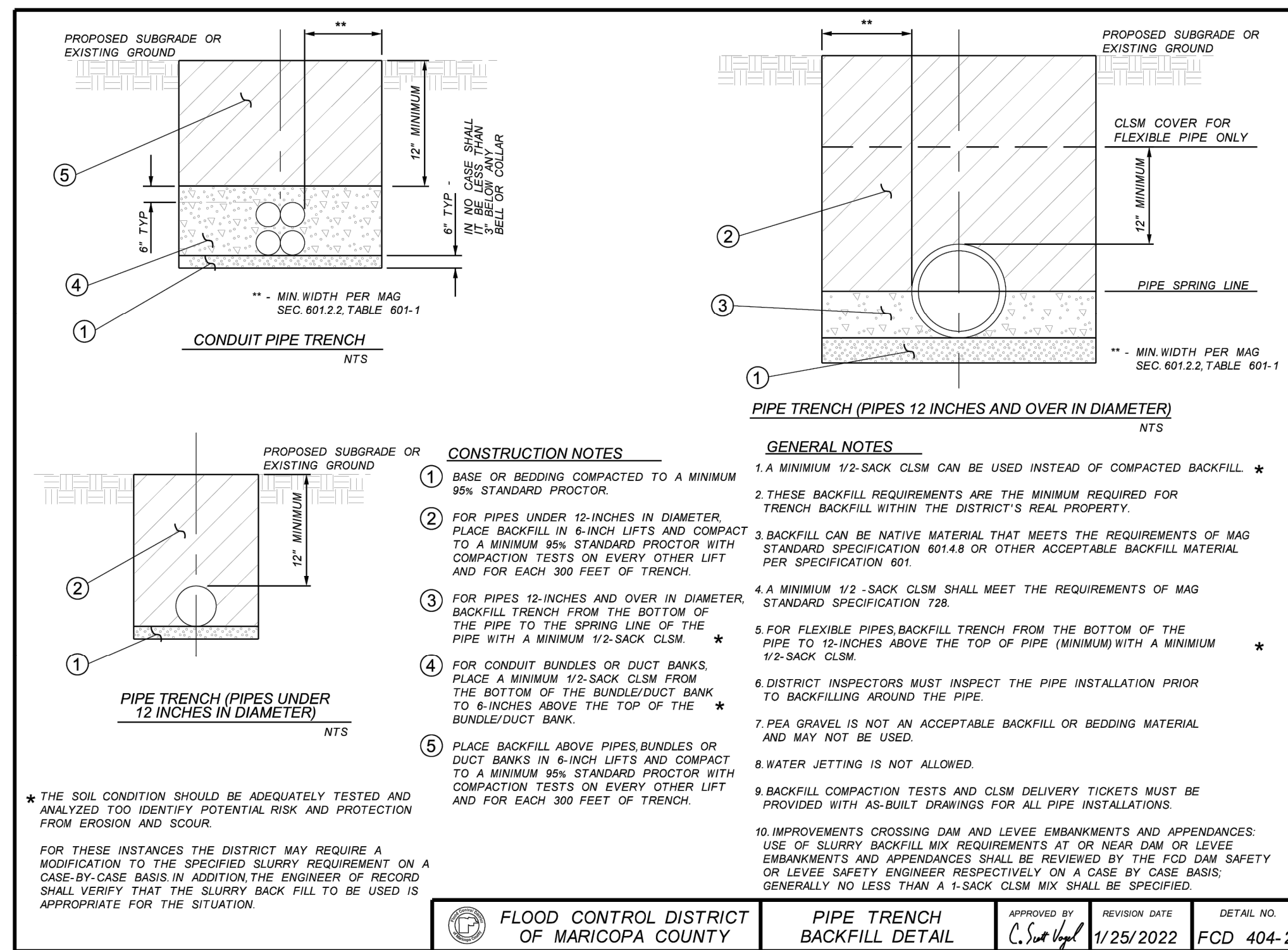
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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

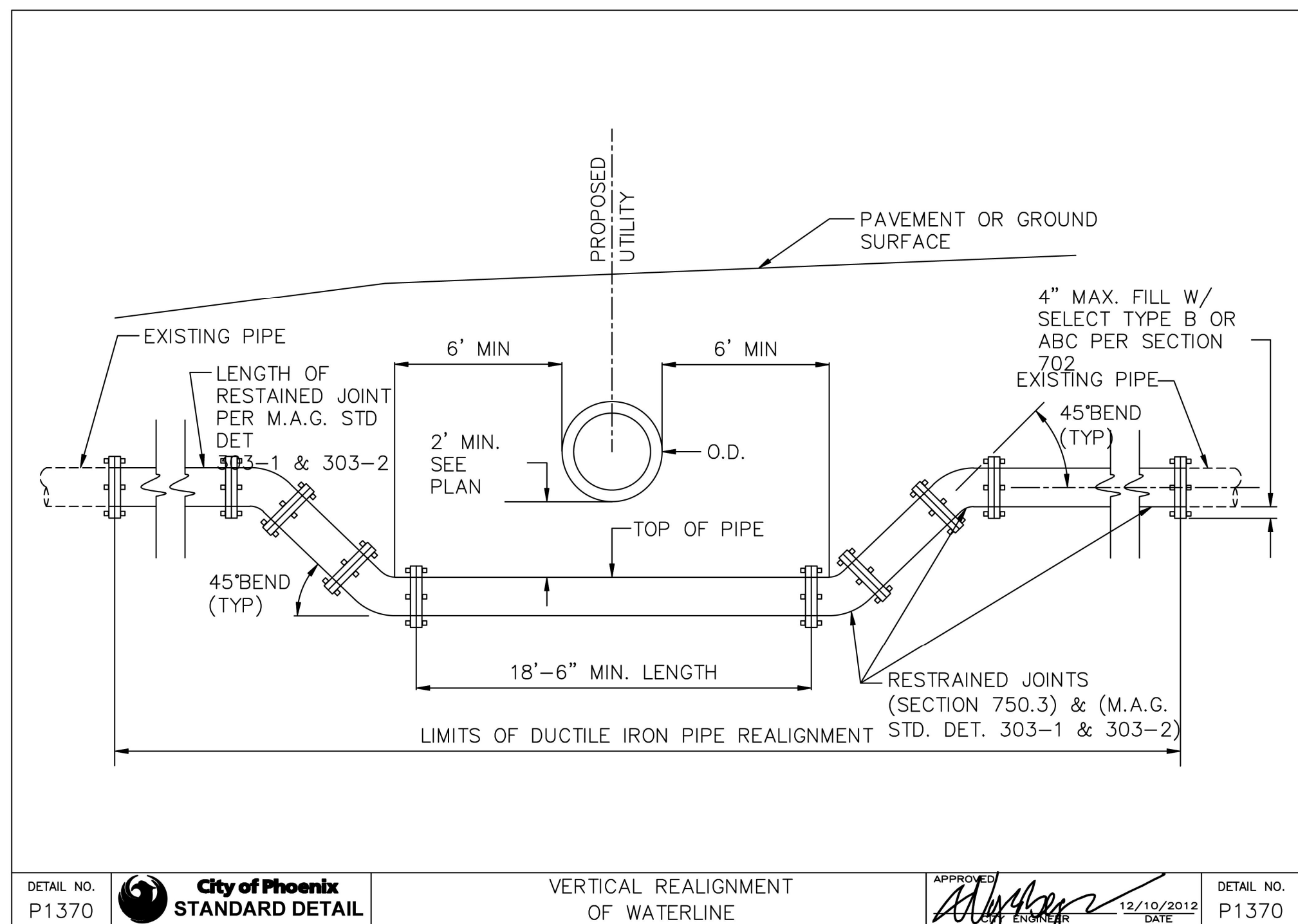


FEMA REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140124	42	42

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USE FCDMC PIPE BEDDING DETAIL
FOR SD SEGMENT FROM RBCB TIE-IN
TO MANHOLE #1



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DETAILS
48TH PL & FLOWER ST
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
48TH PLACE & FLOWER STREET

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 8/24	DATE: 8/24	DATE: 8/24	42	42	
SCALE:			42	42	

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