


CITY OF PHOENIX WATER SERVICES DEPARTMENT 2017 PVC LINED CONCRETE SANITARY SEWER REHABILITATION PROJECT NO. WS90500272 SEGMENTS 60, 61, 62, 63, 64 (IV-12)

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	1	20	



DIBBLE
3020 East Camelback Road,
Suite 201, Phoenix, AZ 85016
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DR: FW DES: KAD CK: MJL DATE: 01/2024

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. | YASSAMIN ANSARI |
| DISTRICT NO 8. | KESHA HODGE WASHINGTON |

CITY MANAGER
JEFF BARTON

CITY ENGINEER
ERIC J. FROBERG, P.E.

WATER SERVICES DIRECTOR
TROY HAYES, P.E.

RECORD DRAWING CERTIFICATION

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

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DATE

REGISTRATION NO.



**2024
VOLUME 3 OF 3**

INDEX OF SHEETS

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INSPECTION BLOCK

CITY PROJECT MANAGER _____

CITY INSPECTOR _____

CONTRACTOR _____

DATE OF SUBSTANTIAL COMPLETION _____

DATE OF FINAL COMPLETION _____

1 YEAR WARRANTY END DATE _____

5 YEAR WARRANTY END DATE _____

UTILITY COORDINATION

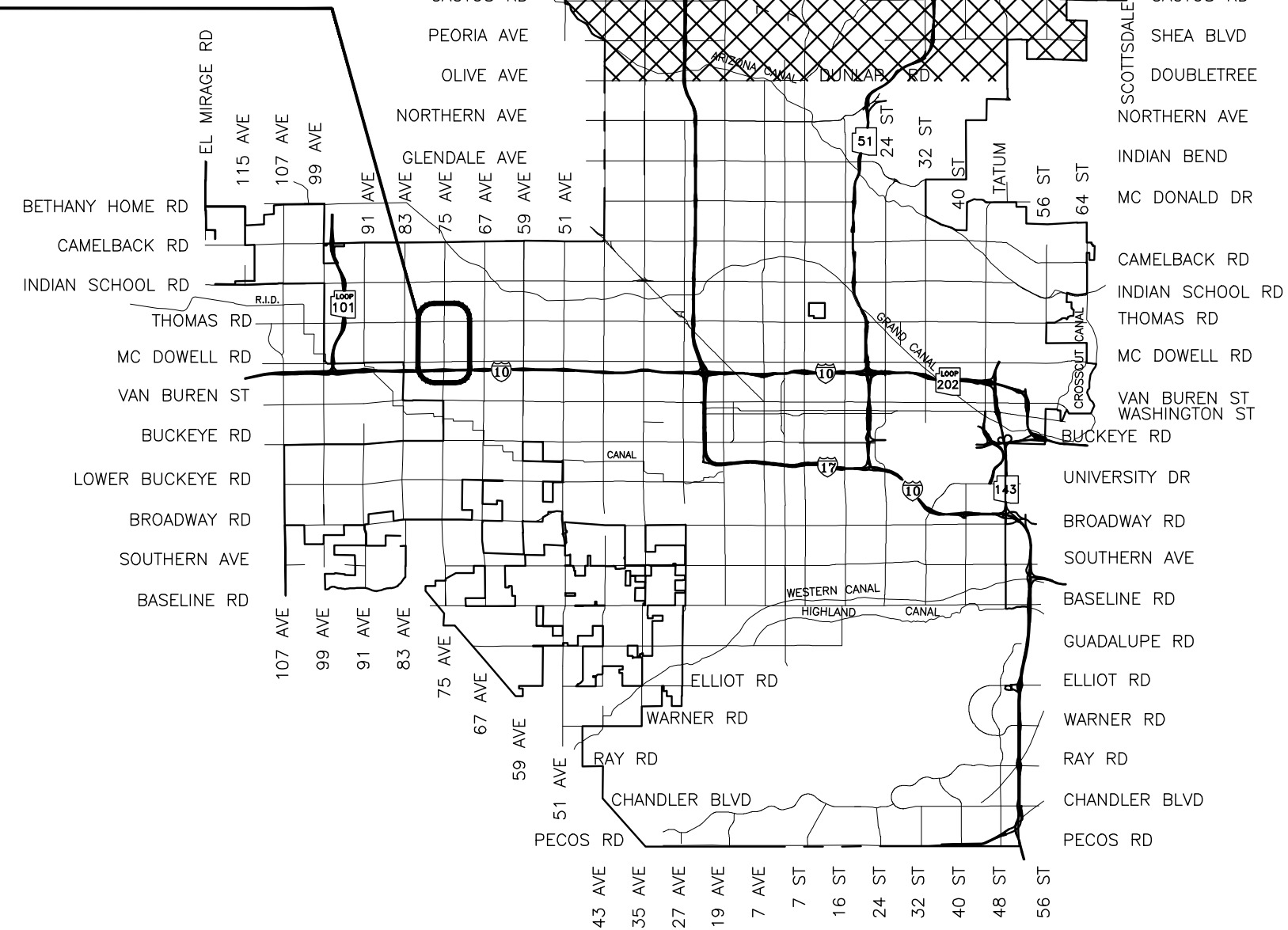
UTILITY COMPANY	COMPANY REPRESENTATIVE	TELEPHONE NUMBER
AT&T	DANA COLLIN	(602) 909 2459
CENTURYLINK	ELIZABETH HAMILTON	(303) 992 4560
CROWN CASTLE	UTILITY ADMIN	(877) 486 9377
SRP	SAVANNAH BINION	(602) 236 4008
SWG	UTILITY ADMIN	(623) 780 3350
WANRACK	UTILITY ADMIN	(855) 482 7225
ZAYO	UTILITY ADMIN	(800) 961 6500

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THIS PROJECT




VICINITY MAP
NTS

MATERIALS LIST

DESCRIPTION	SIZE	MATERIAL	QUANTITY
MANHOLE REHABBED	60 IN	BRICK	10 EA
MANHOLE REHABBED	60 IN	UNKNOWN	5 EA
MANHOLE REHABBED	60 IN	CONCRETE	1 EA
MANHOLE REHABBED	48 IN	BRICK	2 EA
MANHOLE REHABBED	48 IN	UNKNOWN	9 EA
SEWER PIPE REHABBED	30 IN	PVC LINED RCP	666 LF
SEWER PIPE REHABBED	33 IN	PVC LINED RCP	1,973 LF
SEWER PIPE REHABBED	36 IN	PVC LINED RCP	438 LF

APPROVED  **02/15/2024**
CITY ENGINEER DATE

APPROVED  **02/14/2024**
CITY OF PHOENIX WATER SERVICES DEPARTMENT DATE

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

AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
 ABAND ABANDONED
 ABC AGGREGATE BASE COURSE
 AC ACRES
 AC ASPHALT CONCRETE
 ACFC ASPHALT CONCRETE FRICTION COURSE
 ACI AMERICAN CONCRETE INSTITUTE
 ACP ASBESTOS CEMENT PIPE
 ASC ASPHALT CONCRETE SURFACE COURSE
 ADA AMERICANS WITH DISABILITIES ACT
 ADOT ARIZONA DEPARTMENT OF TRANSPORTATION
 AHD AHEAD
 AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 APS ARIZONA PUBLIC SERVICE
 ASLD ARIZONA STATE LAND DEPARTMENT
 ASTM AMERICAN SOCIETY FOR TESTING MATERIALS
 AVE AVENUE
 B/C BACK OF CURB
 BC BRASS CAP
 BCF BRASS CAP FLUSH
 BCHH BRASS CAP IN HANDHOLE
 BCR BEGIN CURB RETURN
 BK BACK
 BKFL BACKFILL
 BLDG BUILDING
 BLVD BOULEVARD
 BM BENCHMARK
 BOT BOTTOM
 C CONCRETE ELEVATION
 C CONDUIT
 C&G CURB AND GUTTER
 CAP CORRUGATED ALUMINUM PIPE
 CATV CABLE TELEVISION
 CB CATCH BASIN
 CIP CAST IRON PIPE
 CIP CAST IN PLACE
 CIPP CURED IN PLACE PIPE
 CK CHECKED
 CL CENTERLINE
 CLR CLEAR
 CMP CORRUGATED METAL PIPE
 CO CLEAN OUT
 COA CITY OF AVONDALE
 COG CITY OF GLENDALE
 COMM COMMUNICATION
 CONC CONCRETE
 CONST CONSTRUCTION
 COP CITY OF PHOENIX
 COR CORNER
 CORR CORRECTION
 CSP CORRUGATED STEEL PIPE
 CTB CEMENT TREATED BASE
 D/W DRIVEWAY
 DB DUCT BANK
 DES DESIGN
 DET DETAIL
 DG DECOMPOSED GRANITE
 DIP DUCTILE IRON PIPE
 DR DRIVE
 DRN DRAWN
 DRNG DRAINAGE
 DSMH DOWNSTREAM MANHOLE
 DWG DRAWING
 E EAST, EASTING
 E/O EAST OF
 E/P EDGE OF PAVEMENT
 EA EACH
 EB ELECTRIC PULLBOX
 ECR END CURB RETURN
 EGL ENERGY GRADE LINE
 EL ELEVATION
 ELEC ELECTRIC
 ESMT EASEMENT
 EVAC EAST VALLEY ASPHALT COMMITTEE
 EXST EXISTING
 F FAX NUMBER
 F/C FACE OF CURB
 FCDMC FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
 FF FINISH FLOOR ELEVATION
 FG FINISH GRADE ELEVATION
 FH FIRE HYDRANT
 FHWA FEDERAL HIGHWAY ADMINISTRATION
 FL FIRE LINE
 FL FLOWLINE
 FL FLANGE
 FND FOUND
 FO FIBER OPTIC
 FT FOOT OR FEET
 G GUTTER ELEVATION
 GAS GAS
 GAF GRID ADJUSTMENT FACTOR
 GB GRADE BREAK
 GM GAS METER
 GND GROUND
 GV GAS VALVE
 H HORIZONTAL
 HDPE HIGH DENSITY POLYETHYLENE
 HDWL HEADWALL
 HGL HYDRAULIC GRADE LINE
 HP HIGH PRESSURE
 HW HIGH WATER
 HWY HIGHWAY
 ID INSIDE DIAMETER
 INV INVERT
 IRR IRRIGATION
 IV IRRIGATION VALVE

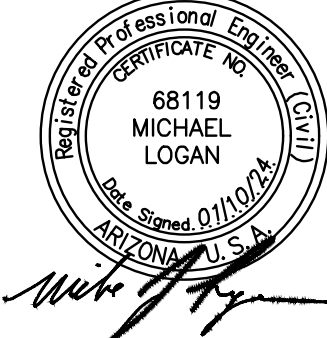
LF LINEAR FEET
 LS LUMP SUM
 LT LEFT
 MAG MARICOPA ASSOCIATION OF GOVERNMENTS
 MAX MAXIMUM
 MB MAILBOX
 MCDOT MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION
 MCESD MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT
 ME MATCH EXISTING
 MH MANHOLE
 MI MILES
 MIN MINIMUM
 MJ MECHANICAL JOINT
 ML MONUMENT LINE
 MOD MODIFIED
 N NORTH, NORTHING
 N/O NORTH OF
 NC NORMAL CROWN
 NE NORTHEAST
 NO NUMBER
 NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
 NPI NON-PAY ITEM
 NSF NATIONAL SANITATION FOUNDATION
 NTS NOT TO SCALE
 NW NORTHWEST
 OC ON CENTER
 OD OUTSIDE DIAMETER
 OHE OVERHEAD ELECTRIC
 OHT OVERHEAD TELEPHONE
 OPNG OPENING
 P PAVEMENT ELEVATION
 P PHONE NUMBER
 PB PULLBOX
 PC POINT OF CURVATURE
 PCC POINT OF COMPOUND CURVATURE
 PCCP PORTLAND CEMENT CONCRETE PAVEMENT
 PE POLYETHYLENE PIPE
 PED TELEPHONE PEDESTAL
 PET PETROLEUM
 PGL PROFILE GRADE LINE
 PH# POTHOLE NUMBER
 PI POINT OF INTERSECTION
 PIP PROTECT IN PLACE
 PL PROPERTY LINE
 PLSS PUBLIC LAND SURVEY SYSTEM
 POC POINT ON CURVE
 POT POINT ON TANGENT
 PP POWER POLE
 PRC POINT OF REVERSE CURVATURE
 PROP PROPOSED
 PSI POUNDS PER SQUARE INCH
 PT POINT OF TANGENCY
 PT POINT
 PUE PUBLIC UTILITY EASEMENT
 PVC POLY VINYL CHLORIDE
 PVI POINT OF VERTICAL INTERSECTION
 PVMT PAVEMENT
 PVRT POINT OF VERTICAL REVERSE CURVATURE
 PVT POINT OF VERTICAL TANGENCY
 R RADIUS
 R RANGE
 R/W RIGHT-OF-WAY
 RCBC REINFORCED CONCRETE BOX CULVERT
 RCP REINFORCED CONCRETE PIPE
 RD ROAD
 RDWY ROADWAY
 REHAB REHABILITATE
 RELOC RELOCATE
 RGRCP RUBBER GASKET REINFORCED CONCRETE PIPE
 RR RAILROAD
 RT RIGHT
 S SEWER
 S SLOPE
 S SOUTH
 S/W SIDEWALK
 S/O SOUTH OF
 SD STORM DRAIN
 SE SOUTHEAST
 SEC SECTION
 SF SQUARE FOOT
 SG SUBGRADE ELEVATION
 SHLDR SHOULDER
 SHT SHEET
 SPEC SPECIFICATIONS
 SRP SALT RIVER PROJECT
 SSD STOPPING SIGHT DISTANCE
 ST STREET
 STA STATION
 STD STANDARD
 STL STEEL
 SW SOUTHWEST
 SWG SOUTHWEST GAS COMPANY
 SY SQUARE YARD
 T TOWNSHIP
 T TANGENT LENGTH
 T/W TOP OF WALL
 TBM TEMPORARY BENCHMARK
 TC TOP OF CURB
 TCE TEMPORARY CONSTRUCTION EASEMENT
 TEL TELEPHONE
 TEMP TEMPORARY
 TN TOP OF NUT
 TOE TOE OF EMBANKMENT
 TOP TOP
 TRAN TRANSITE PIPE
 TS TRAFFIC SIGNAL
 TYP TYPICAL

UNK UNKNOWN
 UPRR UNION PACIFIC RAILROAD
 USMH UPSTREAM MANHOLE
 V VERTICAL
 VC VERTICAL CURVE
 VCP VITRIFIED CLAY PIPE
 VG VALLEY GUTTER
 VNAE VEHICULAR NON ACCESS EASEMENT
 W WEST
 W WATER
 W/ WITH
 W/O WITHOUT
 W/O WEST OF
 WM WATER METER
 WSE WATER SURFACE ELEVATION
 WW WATER VALVE
 XFMR TRANSFORMER
 BENCHMARK
 BRASS CAP FLUSH
 BRASS CAP IN HANDHOLE
 BACKFLOW PREVENTER
 CACTUS
 DRYWELL
 FIRE HYDRANT
 FIRE DEPT CONNECTION
 FLAG POLE
 GATE
 GRATE
 GUY WIRE
 HEADWALL
 MAILBOX
 MANHOLE (TYPE NOTED)
 METER (TYPE NOTED)
 PEDESTAL (TYPE NOTED)
 PULLBOX (TYPE NOTED)
 RIPRAP
 ROCK
 SHRUB
 SIGN
 STREET LIGHT
 TREE
 UTILITY POLE
 VALVE (TYPE NOTED)

STANDARD ABBREVIATIONS & LEGEND

EXISTING
 --- CATV --- CABLE TV
 --- COMM --- COMMUNICATION
 --- E --- ELECTRIC (UNDERGROUND)
 --- OHE --- ELECTRIC (OVERHEAD)
 --- FO --- FIBER OPTIC
 --- FL --- FIRE LINE
 --- 2" G --- GAS
 --- 12" RR --- IRRIGATION LINE 18" OR SMALLER
 --- 24" RR --- IRRIGATION LINE 21" OR LARGER
 --- 12" RW --- RECLAIMED WATER 18" OR SMALLER
 --- 24" RW --- RECLAIMED WATER 21" OR LARGER
 --- T --- TELEPHONE
 --- 12" S --- SEWER LINE 18" OR SMALLER
 --- 24" S --- SEWER LINE 21" OR LARGER
 --- 12" SD --- STORM DRAIN 18" OR SMALLER
 --- 24" SD --- STORM DRAIN 21" OR LARGER
 --- 12" W --- WATER LINE 18" OR SMALLER
 --- 24" W --- WATER LINE 21" OR LARGER
 --- BUILDING SETBACK
 --- CENTERLINE
 --- EASEMENT
 --- LIMITS OF CONSTRUCTION
 --- RIGHT-OF-WAY
 --- BASE FLOOD ELEVATION
 --- CHANNEL
 --- CURB & GUTTER
 --- DAYLIGHT LINE, CUT
 --- DAYLIGHT LINE, FILL
 --- EDGE OF PAVEMENT
 --- FENCE WOOD
 --- FENCE WIRE
 --- FENCE CHAINLINK
 --- FLOWLINE
 --- GUARDRAIL
 --- MASONRY WALL/RETAINING WALL
 --- MAJOR CONTOUR
 --- MINOR CONTOUR
 --- SIDEWALK
 --- SINGLE CURB
 --- PIPE REHABILITATION/REPAIR
 (S) MANHOLE REHABILITATION
 --- BYPASS PIPE
 --- TRENCH PLATE

NEW
 ▲ BENCHMARK
 ○ BRASS CAP FLUSH
 □ BRASS CAP IN HANDHOLE
 ⦿ BACKFLOW PREVENTER
 ⊕ BORING LOCATION
 ⊙ CACTUS
 ⊙ DRYWELL
 ⊙ FIRE HYDRANT
 ⊙ FIRE DEPT CONNECTION
 ⊙ FLAG POLE
 ⊙ GATE
 ⊙ HEADWALL
 ⊙ MAILBOX
 ⊙ MANHOLE
 ⊙ METER
 ⊙ PIPE PLUG
 ⊙ POTHOLE LOCATION
 ⊙ PULLBOX
 ⊙ RIPRAP
 ⊙ ROCK
 ⊙ SHRUB
 ⊙ SIGN
 ⊙ STREET LIGHT
 ⊙ TREE
 ⊙ UTILITY POLE
 ⊙ VALVE
 --- BUILDING SETBACK
 --- CENTERLINE
 --- EASEMENT
 --- LIMITS OF CONSTRUCTION
 --- RIGHT-OF-WAY
 --- BASE FLOOD ELEVATION
 --- CHANNEL
 --- CURB & GUTTER
 --- DAYLIGHT LINE, CUT
 --- DAYLIGHT LINE, FILL
 --- EDGE OF PAVEMENT
 --- FENCE WOOD
 --- FENCE WIRE
 --- FENCE CHAINLINK
 --- FLOWLINE
 --- GUARDRAIL
 --- MASONRY WALL/RETAINING WALL
 --- MAJOR CONTOUR
 --- MINOR CONTOUR
 --- SIDEWALK
 --- SINGLE CURB
 --- PIPE REHABILITATION/REPAIR
 (S) MANHOLE REHABILITATION
 --- BYPASS PIPE
 --- TRENCH PLATE

	F.H.W.A. REGION 9	STATE ARIZ.	PROJ. NO. WS90500272	NO. 2	TOTAL 20	AS BUILT
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DIBBLE
 DR: FW | DES: KAD | CK: MJL | DATE: 01/2024

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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
 CITY OF PHOENIX, ARIZONA
 WATER SERVICES DEPARTMENT

LEGEND & ABBREVIATIONS

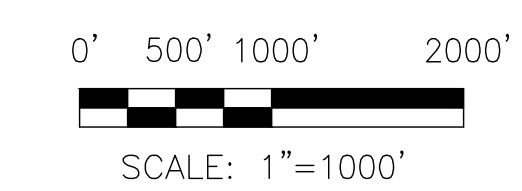
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REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION



	F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
	9	ARIZ.	WS90500272	4	20	
DIBBLE						
DR: FW		DES: KAD		CK: MJL		DATE: 01/2024



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SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PLANS KEY MAP

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	4	20
SCALE: 1"=1000'				

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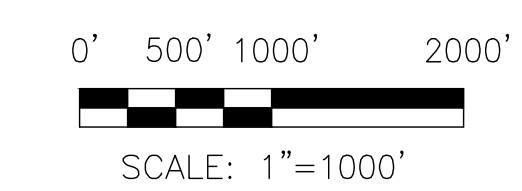
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NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION



CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

	F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
	9	ARIZ.	WS90500272	5	20	
DIBBLE						
DR: FW	DES: KAD	CK: MJL	DATE: 01/2024			



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CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

BYPASS KEY MAP					
DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS	
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	5	20	
SCALE: 1"=1000'					

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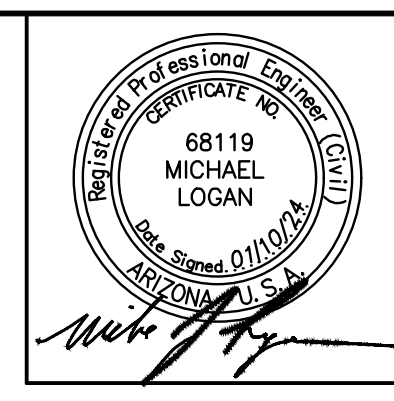
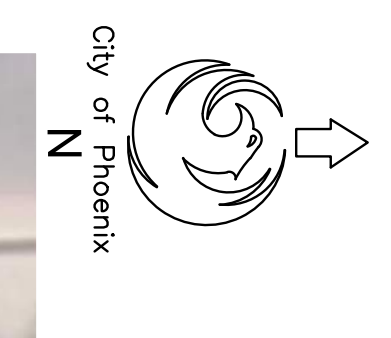
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REVISION BY CITY OF PHOENIX

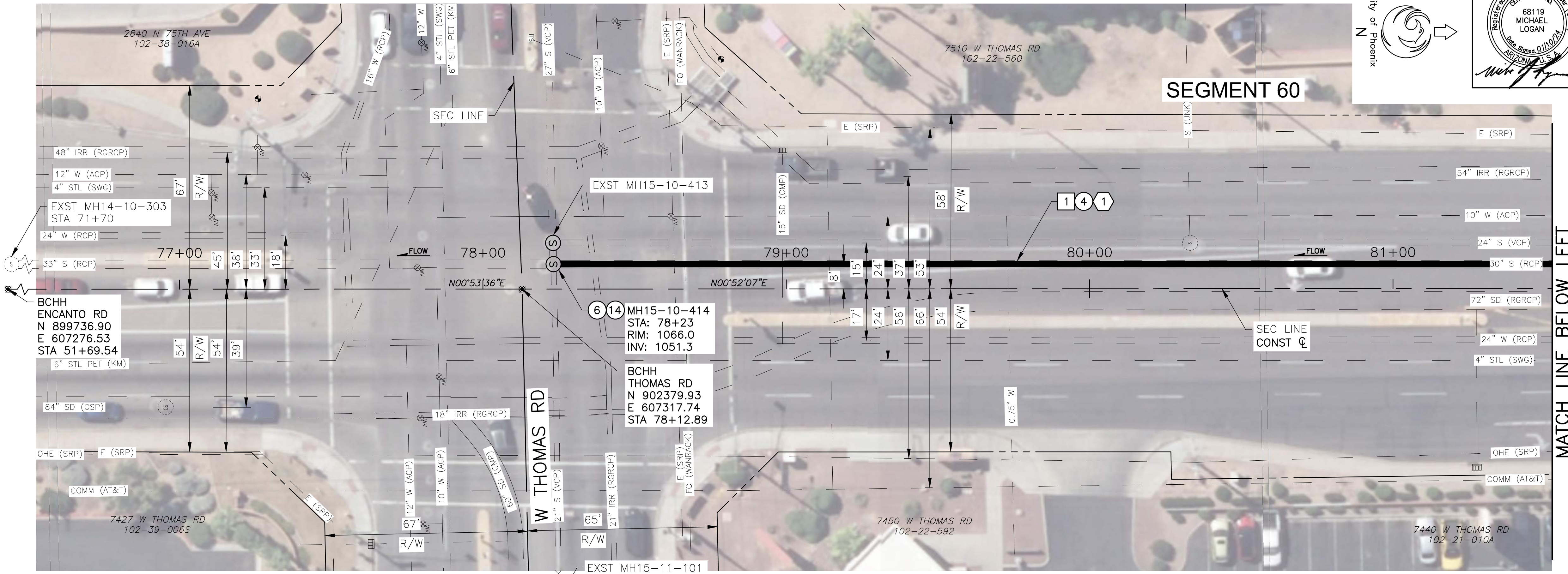
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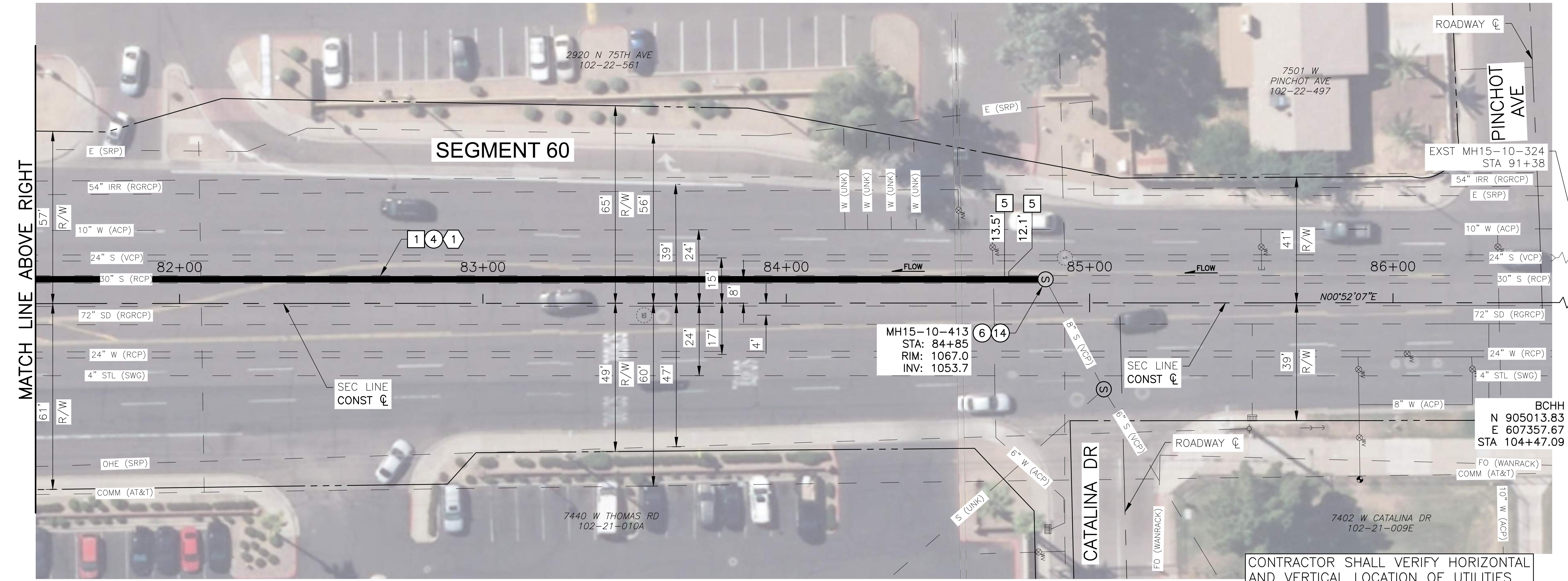
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	6	20	

DIBBLE

DR: FW DES: KAD CK: MJL DATE: 01/2024



MATCH LINE BELOW LEFT



MATCH LINE ABOVE RIGHT

REMOVAL NOTES

1	HYDRO BLAST CLEAN TO REMOVE ATTACHED DEPOSITS & DEBRIS PRIOR TO INSTALLING CIPP LINER TECHNICAL SPECIFICATION 02760	662 LF
5	AS REQUIRED, REMOVE DETACHED LINER THAT MAY HINDER CIPP LINER INSTALLATION OR FLOW CHARACTERISTICS (MANNED ENTRY) DET A, SHT 12 (DISTANCE IS FROM US MH)	2 EA

CONSTRUCTION NOTES

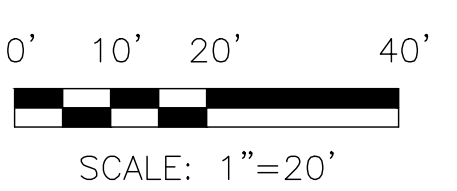
4	CIPP LINER INTO EXISTING 30" PVC-LINED SANITARY SEWER TECHNICAL SPECIFICATION SECTION 02767	662 LF
6	EPOXY COAT MANHOLE CHANNEL, THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710.	2 EA
14	REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422	2 EA

REFERENCE NOTES

1	SEGMENT 60 30" PVC-LINED RCP USMH15-10-413 DSMH15-10-414 ASSET ID I-1240722	662 LF
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CONCEPTUAL BYPASS SHOWN ON SHEET 16

- NOTES:**
1. DETACHED LINER REMOVAL LOCATION MEASUREMENTS TAKEN FROM UPSTREAM MANHOLE.
 2. UTILITY LOCATION, ELEVATIONS & DIAMETERS OBTAINED FROM CITY PROVIDED GIS GEODATABASE & DIGITAL CCTV.
 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
 4. SURFACE/EXISTING CONDITIONS SHALL BE RESTORED BY THE CONTRACTOR IF DAMAGED.



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CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PLAN - SEGMENT 60

DR:	DES:	CK:	SHEET NO.:	TOTAL SHEETS:
FW	KAD	MJL	6	20

SCALE: 1"=20'

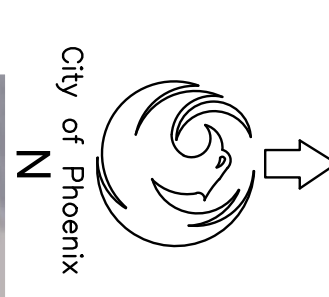
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

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NO.	DESCRIPTION

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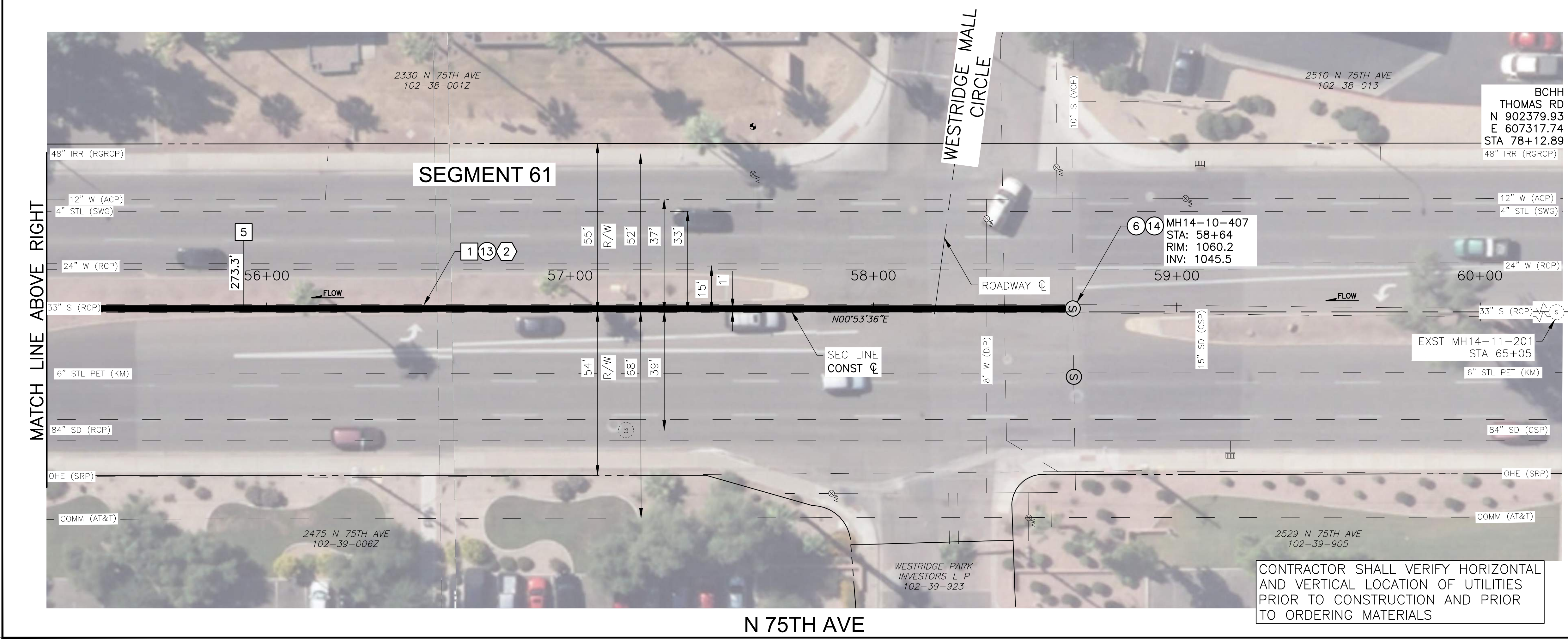
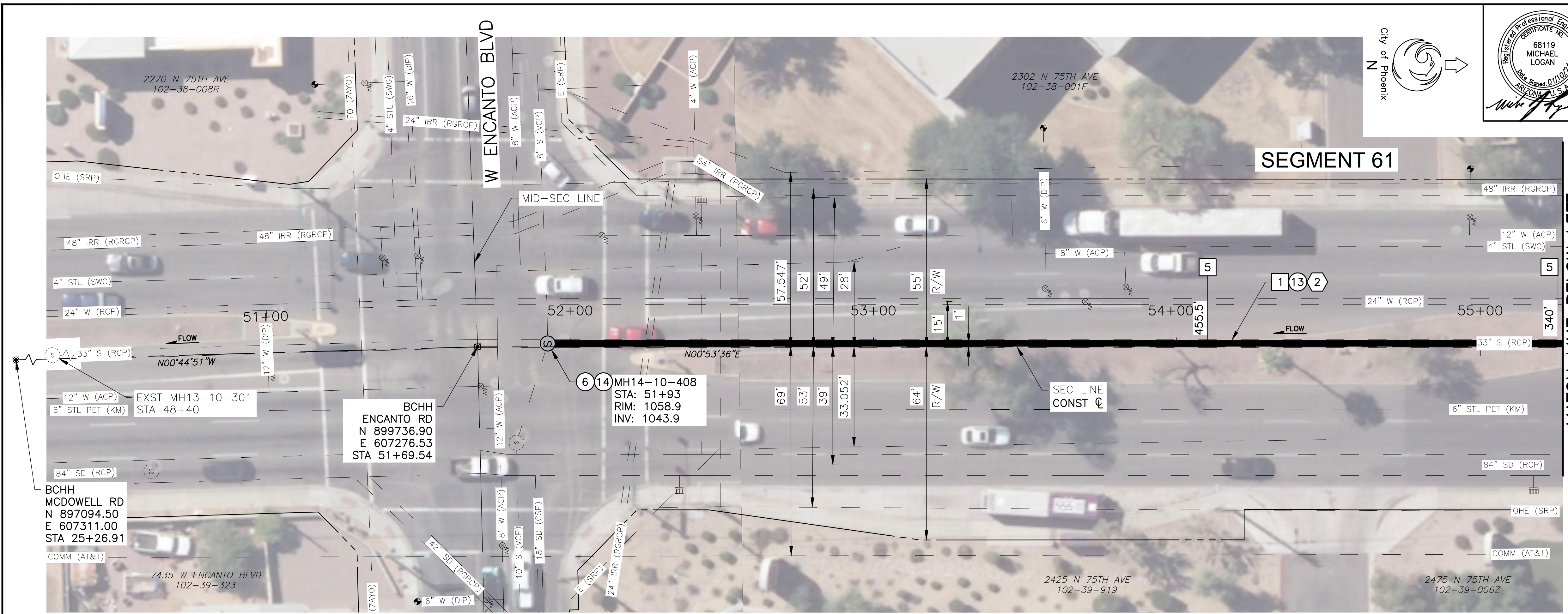
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	7	20	

DIBBLE

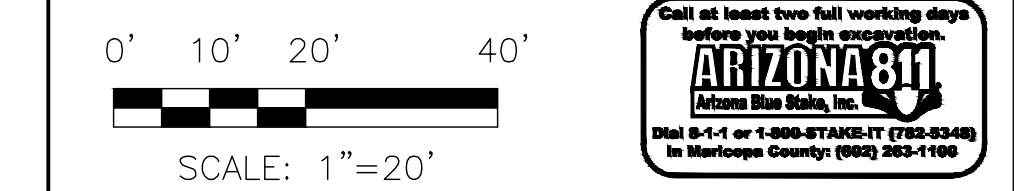
DR: FW	DES: KAD	CK: MJL	DATE: 01/2024
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- REMOVAL NOTES**
- 1 HYDRO BLAST CLEAN TO REMOVE ATTACHED DEPOSITS & DEBRIS PRIOR TO INSTALLING CIPP LINER TECHNICAL SPECIFICATION 02760 673 LF
 - 5 AS REQUIRED, REMOVE DETACHED LINER THAT MAY HINDER CIPP LINER INSTALLATION OR FLOW CHARACTERISTICS (MANNED ENTRY) DET A, SHT 12 (DISTANCE IS FROM US MH) 3 EA
- CONSTRUCTION NOTES**
- 6 EPOXY COAT MANHOLE CHANNEL, THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710. 2 EA
 - 13 INSTALL CIPP LINER INTO EXISTING 33" PVC-LINED SANITARY SEWER TECHNICAL SPECIFICATION SECTION 02767 673 LF
 - 14 REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422 2 EA
- REFERENCE NOTES**
- 2 SEGMENT 61 33" PVC-LINED RCP USMH14-10-407 DSMH14-10-408 ASSET ID I-107656 673 LF

CONCEPTUAL BYPASS SHOWN ON SHEET 16

- NOTES:**
1. DETACHED LINER REMOVAL LOCATION MEASUREMENTS TAKEN FROM UPSTREAM MANHOLE.
 2. UTILITY LOCATION, ELEVATIONS & DIAMETERS OBTAINED FROM CITY PROVIDED GIS GEODATABASE & DIGITAL CCTV.
 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
 4. SURFACE/EXISTING CONDITIONS SHALL BE RESTORED BY THE CONTRACTOR IF DAMAGED.



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PVC LINED CONCRETE SANITARY SEWER REHABILITATION

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PLAN - SEGMENT 61

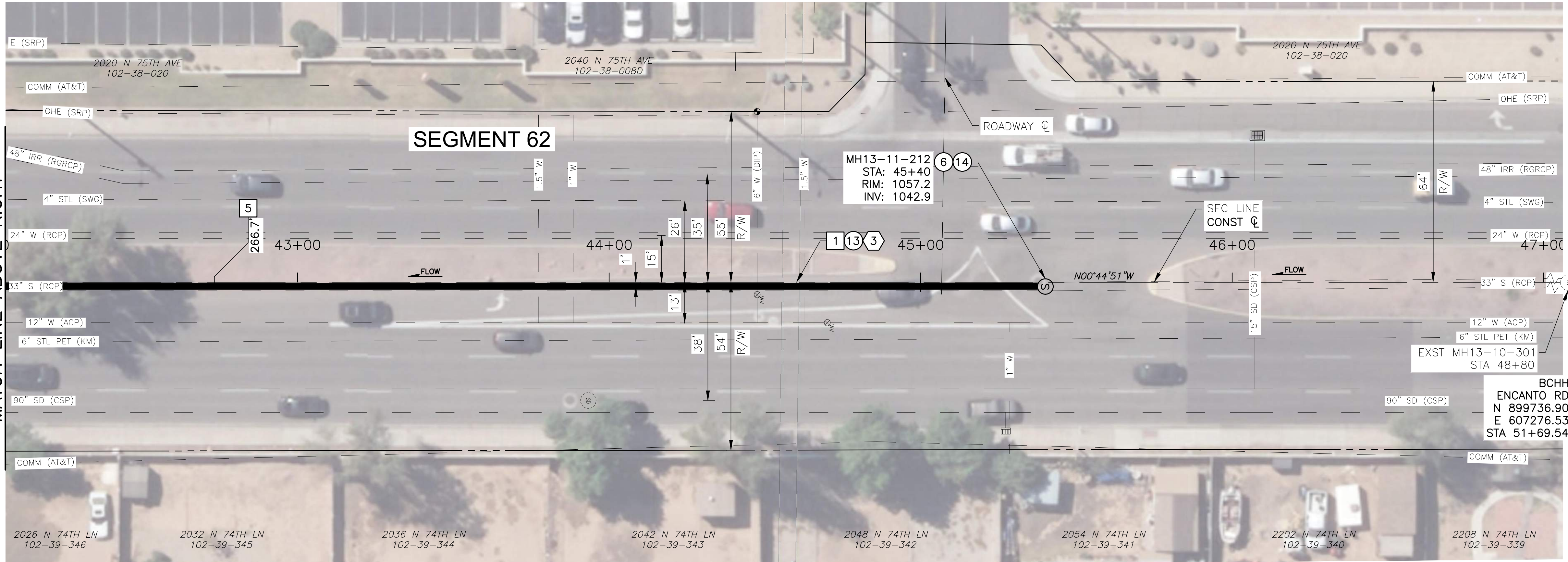
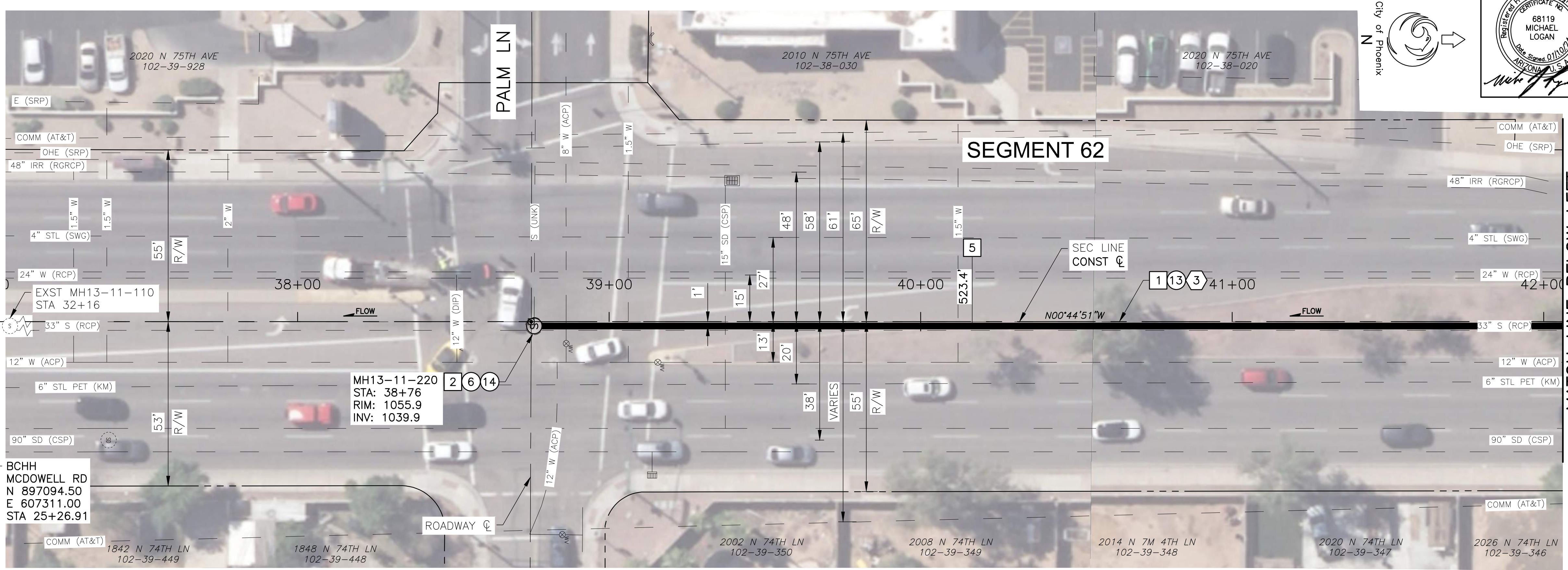
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DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	7	20

SCALE: 1"=20'

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

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REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	8	20	

DIBBLE

DR: FW DES: KAD CK: MJL DATE: 01/2024

REMOVAL NOTES

- 1 HYDRO BLAST CLEAN TO REMOVE ATTACHED DEPOSITS & DEBRIS PRIOR TO INSTALLING CIPP LINER TECHNICAL SPECIFICATION 02760 664 LF
- 2 REMOVE MANHOLE STEPS TECHNICAL SPECIFICATION SECTION 02760 3 EA
- 5 AS REQUIRED, REMOVE DETACHED LINER THAT MAY HINDER CIPP LINER INSTALLATION OR FLOW CHARACTERISTICS (MANNED ENTRY) DET A, SHT 12 (DISTANCE IS FROM US MH) 2 EA

CONSTRUCTION NOTES

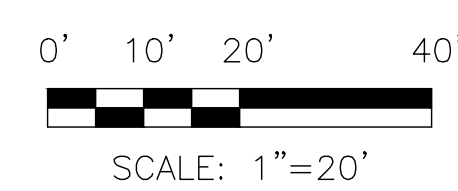
- 6 EPOXY COAT MANHOLE CHANNEL, THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710. 2 EA
- 13 INSTALL CIPP LINER INTO EXISTING 33" PVC-LINED SANITARY SEWER TECHNICAL SPECIFICATION SECTION 02767 664 LF
- 14 REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422 2 EA

REFERENCE NOTES

- 3 SEGMENT 62 33" PVC-LINED RCP USMH13-11-212 DSMH13-11-220 ASSET ID I-1015448 664 LF

CONCEPTUAL BYPASS SHOWN ON SHEET 16

- NOTES:
- 1. DETACHED LINER REMOVAL LOCATION MEASUREMENTS TAKEN FROM UPSTREAM MANHOLE.
 - 2. UTILITY LOCATION, ELEVATIONS & DIAMETERS OBTAINED FROM CITY PROVIDED GIS GEODATABASE & DIGITAL CCTV.
 - 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
 - 4. SURFACE/EXISTING CONDITIONS SHALL BE RESTORED BY THE CONTRACTOR IF DAMAGED.



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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PLAN - SEGMENT 62

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	8	20

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

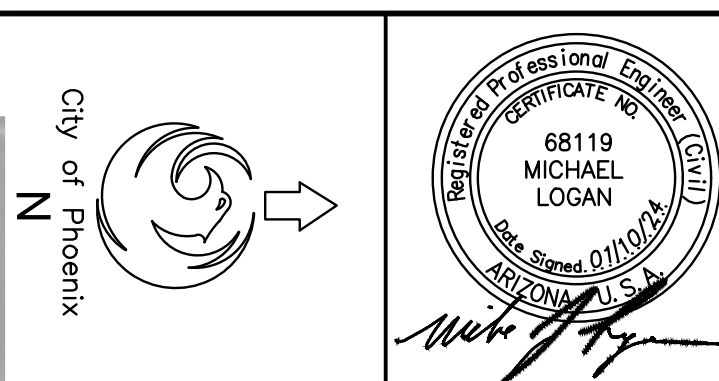
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NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

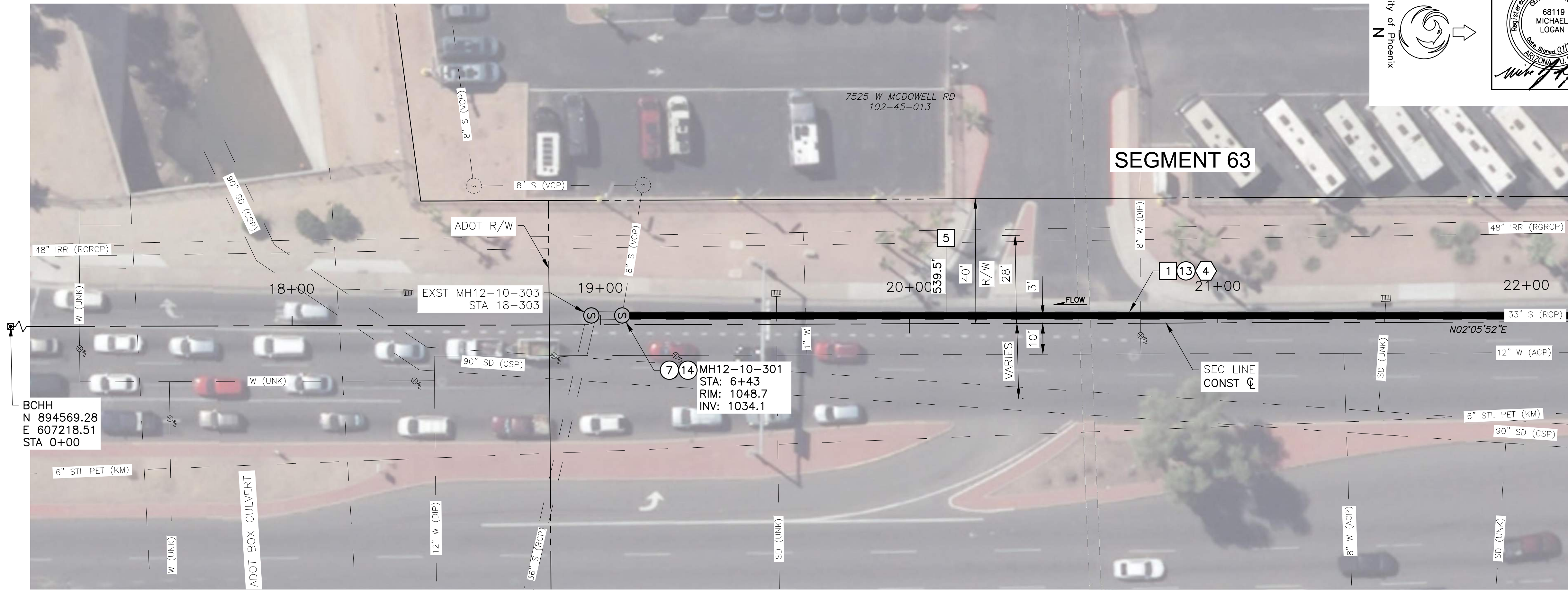
NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	9	20	

DIBBLE

DR: FW DES: KAD CK: MJL DATE: 01/2024



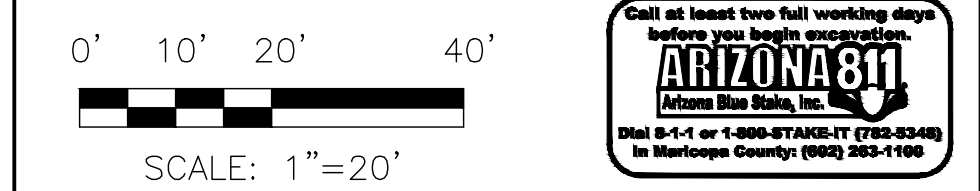
MATCH LINE BELOW LEFT

- REMOVAL NOTES**
- 1 HYDRO BLAST CLEAN TO REMOVE ATTACHED DEPOSITS & DEBRIS PRIOR TO INSTALLING CIPP LINER TECHNICAL SPECIFICATION 02760 644 LF
 - 5 AS REQUIRED, REMOVE DETACHED LINER THAT MAY HINDER CIPP LINER INSTALLATION OR FLOW CHARACTERISTICS (MANNED ENTRY) DET A, SHT 12 (DISTANCE IS FROM US MH) 1 EA

- CONSTRUCTION NOTES**
- 6 EPOXY COAT MANHOLE CHANNEL, THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710. 1 EA
 - 7 EPOXY COAT MANHOLE CHANNEL & BENCH TECHNICAL SPECIFICATION 09710. 1 EA
 - 13 INSTALL CIPP LINER INTO EXISTING 33" PVC-LINED SANITARY SEWER TECHNICAL SPECIFICATION SECTION 02767 644 LF
 - 14 REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422 2 EA

- REFERENCE NOTES**
- 4 SEGMENT 63 33" PVC-LINED RCP USMH13-11-118 DSMH12-10-301 ASSET ID I-1111251 644 LF
- CONCEPTUAL BYPASS SHOWN ON SHEET 16

- NOTES:**
1. DETACHED LINER REMOVAL LOCATION MEASUREMENTS TAKEN FROM UPSTREAM MANHOLE.
 2. UTILITY LOCATION, ELEVATIONS & DIAMETERS OBTAINED FROM CITY PROVIDED GIS GEODATABASE & DIGITAL CCTV.
 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
 4. SURFACE/EXISTING CONDITIONS SHALL BE RESTORED BY THE CONTRACTOR IF DAMAGED.

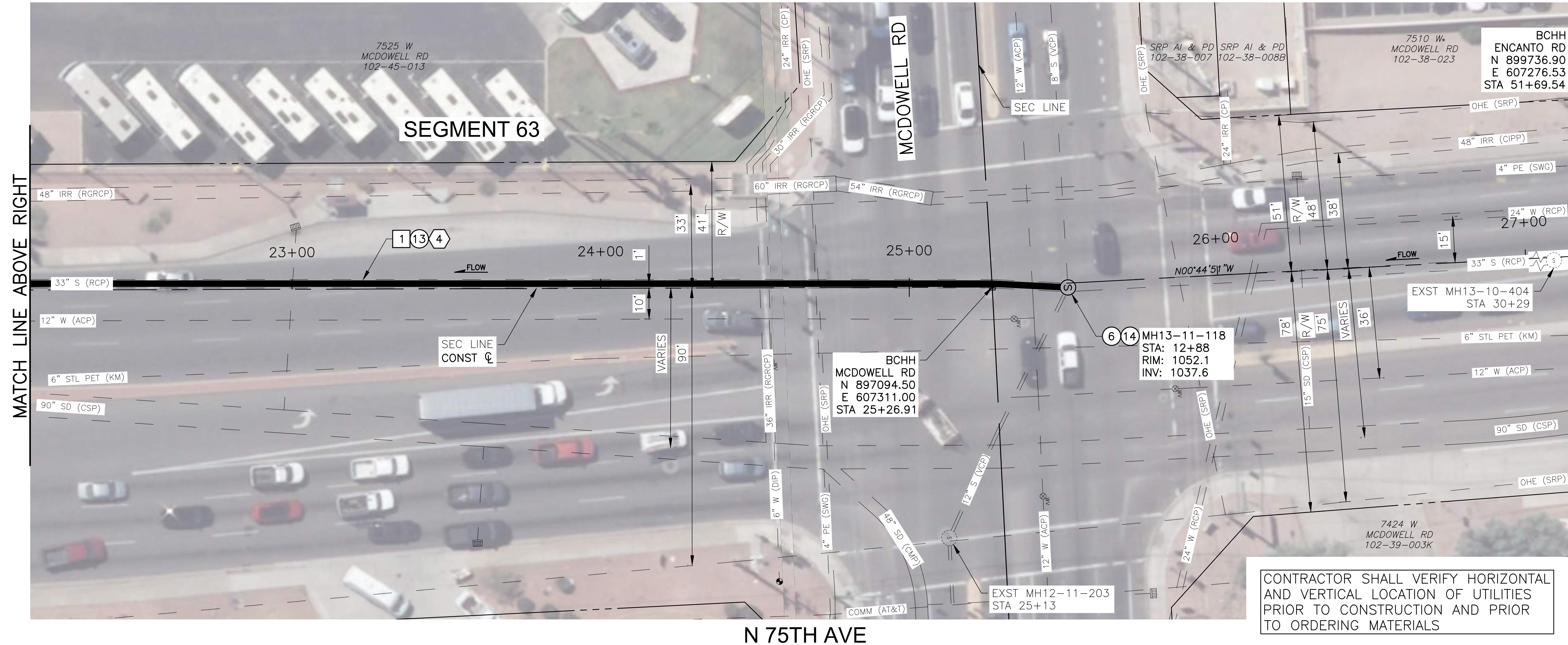


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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PLAN - SEGMENT 63

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	9	20



MATCH LINE ABOVE RIGHT

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

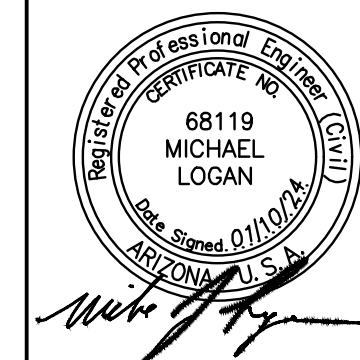
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REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION



CAUTION: OVERHEAD ELECTRIC LINES



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	10	20	

DIBBLE

DR: FW DES: KAD CK: MJL DATE: 01/2024

REMOVAL NOTES

- 1 HYDRO BLAST CLEAN TO REMOVE ATTACHED DEPOSITS & DEBRIS PRIOR TO INSTALLING CIPP LINER TECHNICAL SPECIFICATION 02760 439 LF
- 5 AS REQUIRED, REMOVE DETACHED LINER THAT MAY HINDER CIPP LINER INSTALLATION OR FLOW CHARACTERISTICS (MANNED ENTRY) DET A, SHT 12 (DISTANCE IS FROM US MH) 4 EA

CONSTRUCTION NOTES

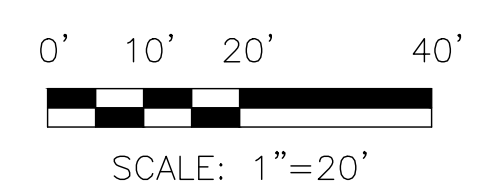
- 11 INSTALL CIPP LINER INTO EXISTING 36" PVC-LINED SANITARY SEWER TECHNICAL SPECIFICATION SECTION 02767 439 LF
- 12 EPOXY COAT MANHOLE CHANNEL TECHNICAL SPECIFICATION 09710. 2 EA
- 14 REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422 2 EA

REFERENCE NOTES

- 5 SEGMENT 64 36" PVC-LINED RCP USMH12-11-304 DSMH12-11-305 ASSET ID 1-1096241 439 LF
- 7 COORDINATE ENTRY W/ADOT ENCROACHMENT PERMIT REQUIRED

CONCEPTUAL BYPASS SHOWN ON SHEET 16

- NOTES:
- 1. DETACHED LINER REMOVAL LOCATION MEASUREMENTS TAKEN FROM UPSTREAM MANHOLE.
 - 2. UTILITY LOCATION, ELEVATIONS & DIAMETERS OBTAINED FROM CITY PROVIDED GIS GEODATABASE & DIGITAL CCTV.
 - 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.
 - 4. SURFACE/EXISTING CONDITIONS SHALL BE RESTORED BY THE CONTRACTOR IF DAMAGED.

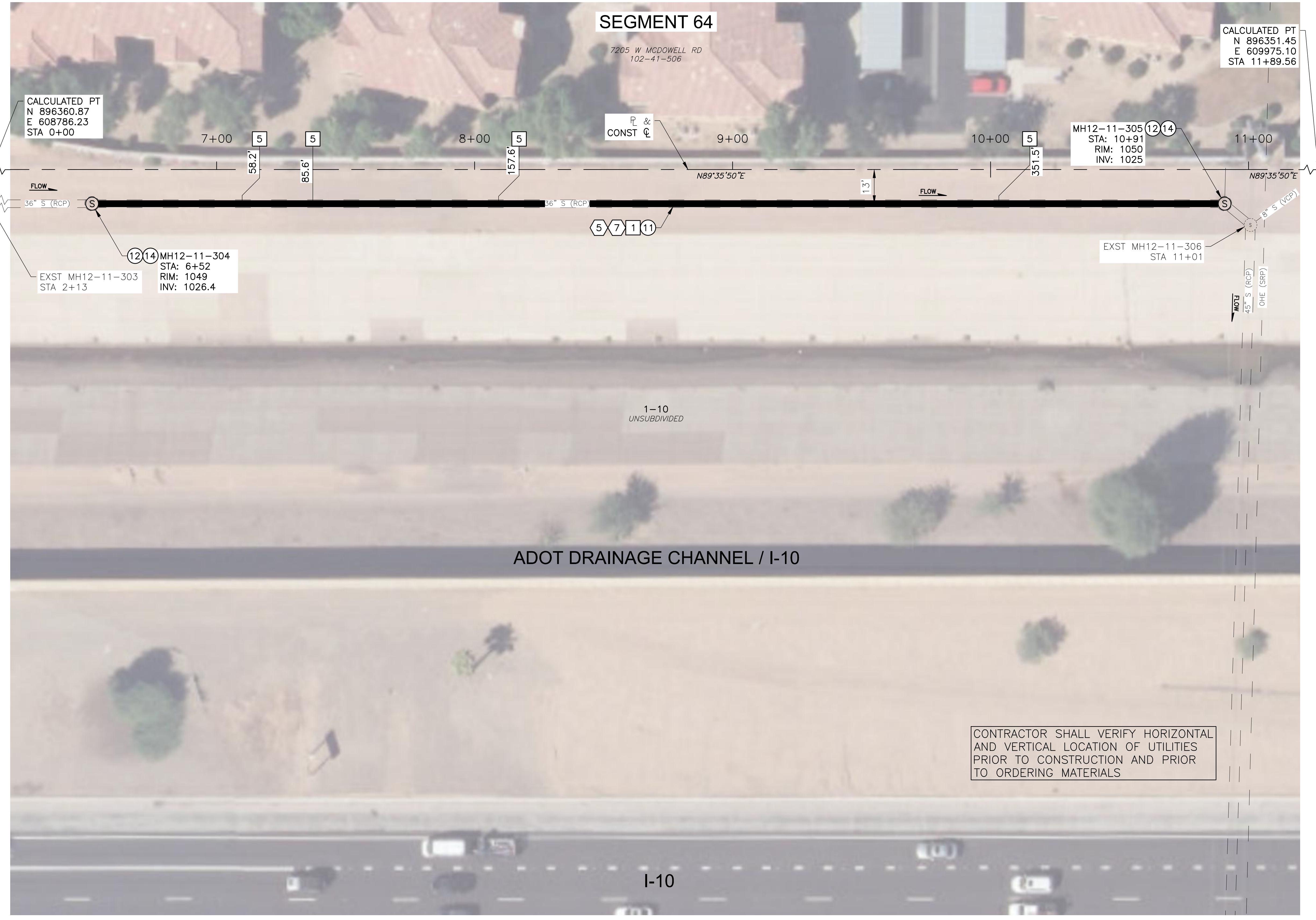


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CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PLAN - SEGMENT 64

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	10	20



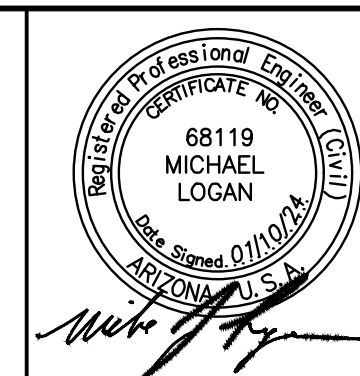
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

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REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	11	20	
DIBBLE					
DR: FW	DES: KAD	CK: MJL	DATE: 01/2024		

TABLE 1 - MANHOLE REHABILITATION SUMMARY

Manhole	Synergen ID	Location	Exst Material	Exst Lining	Depth (VF)	Epoxy Coating	Step Removal	Manhole Repairs*
15-10-413	I-1240722	75th Ave & Catalina Dr	Brick	None	13	Throat, Bench, Wall, Cone & Chimney		
15-10-414	I-1201945	75th Ave & Thomas Rd	Brick	None	15	Throat, Bench, Wall, Cone & Chimney		
14-10-407	I-1201180	75th Ave & Encanto Blvd	Brick	None	14	Throat, Bench, Wall, Cone & Chimney		
14-10-408	I-1201185	75th Ave & Encanto Blvd	Brick	None	15	Throat, Bench, Wall, Cone & Chimney		
13-11-212	I-1208847	75th Ave & Palm Ln	Brick	None	14	Throat, Bench, Wall, Cone & Chimney		
13-11-220	I-1208848	75th Ave & Palm Ln	Brick	None	16	Throat, Bench, Wall, Cone & Chimney	3 EA	
13-11-118	I-1208849	75th Ave & McDowell Rd	Brick	None	14	Throat, Bench, Wall, Cone & Chimney		
12-10-301	I-1173007	75th Ave & McDowell Rd	Unknown	Epoxy	15	Channel & Bench		
12-11-304	I-1203397	ADOT Drainage Channel / I-10	Unknown	Epoxy	23	Channel		
12-11-305	I-1259872	ADOT Drainage Channel / I-10	Unknown	Epoxy	25	Channel		
15-10-324	I-1240715	75th Ave & Osborn Rd	Brick	None	13	Throat, Bench, Wall, Cone & Chimney		
15-11-104	I-1202496	75th Ave & Catalina Dr	Unknown	Unknown**	8	Throat, Bench, Wall, Cone & Chimney	6 EA	
15-11-101	I-1247859	75th Ave & Thomas Rd	Unknown	Unknown**	12	Channel & Bench		
14-10-303	I-1244015	75th Ave & Westridge Mall Cir	Brick	None	15	Throat, Bench, Wall, Cone & Chimney		
14-10-406	I-1201179	75th Ave & Westridge Mall Cir	Unknown	Unknown**	8	Channel & Bench	4 EA	Fracture @ chimney, Crack @ chimney & wall, surface aggregate visible @ bench
14-11-105	I-1201154	75th Ave & Westridge Mall Cir	Unknown	Unknown**	10	Channel & Bench	8 EA	Cracks @ chimney, surface aggregate visible/projecting @ chimney, wall & bench
13-10-301	I-1215246	75th Ave & Encanto Blvd	Unknown	Unknown**	14	Channel & Bench		
13-11-110	I-1245438	75th Ave & Coronado Rd	Unknown	Unknown**	16	Channel & Bench		
13-10-404	I-1245288	75th Ave & Coronado Rd	Unknown	Unknown**	14	Channel & Bench		
13-10-402	I-1230500	75th Ave & McDowell Rd	Unknown	Unknown**	10	Throat, Bench, Wall, Cone & Chimney		
12-11-203	I-1203391	75th Ave & McDowell Rd	Unknown	Unknown**	10	Throat, Bench, Wall, Cone & Chimney		
12-10-303	I-1254734	75th Ave & I-10	Concrete (Non-Reinforced)	Epoxy	14	Chimney		Fracture @ chimney
12-10-305	I-1203377	75th Ave & I-10	Unknown	Unknown**	10	Channel & Bench		
12-11-303	I-1203398	ADOT Drainage Channel / I-10	Unknown	Unknown**	20	Throat, Bench, Wall, Cone & Chimney		
12-11-306	I-1235518	ADOT Drainage Channel / I-10	Unknown	Unknown**	26	Throat, Bench, Wall, Cone & Chimney		

*Repairs are based on assessment completed in 2016. Additional repairs may be required.

**If manhole is PVC-lined, refer to details on Sht 14.

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**PVC LINED CONCRETE SANITARY
SEWER REHABILITATION**

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

**MANHOLE REHABILITATION
SUMMARY**

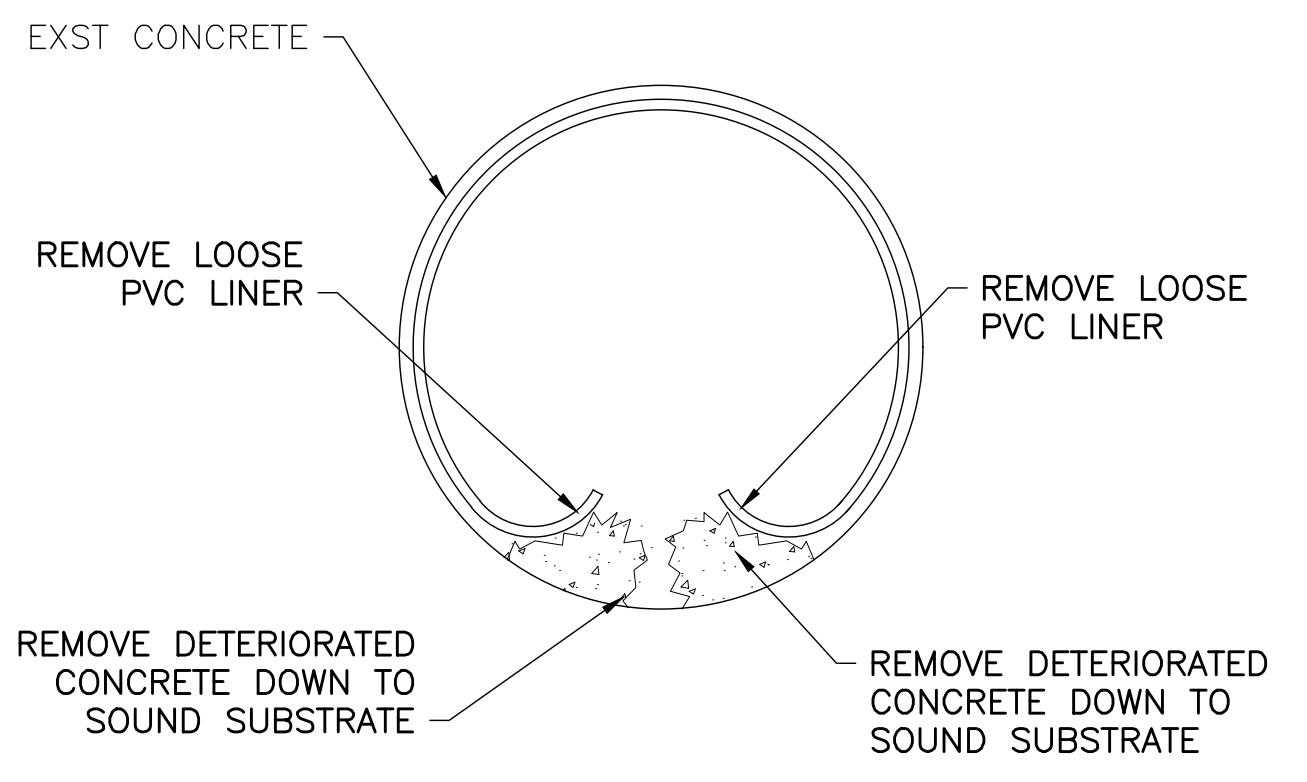
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DATE:01/2024	DATE:01/2024	DATE:01/2024	11	20
SCALE:				

WS90500272SSD00-IV_12.dwg 01/10/24

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	12	20	

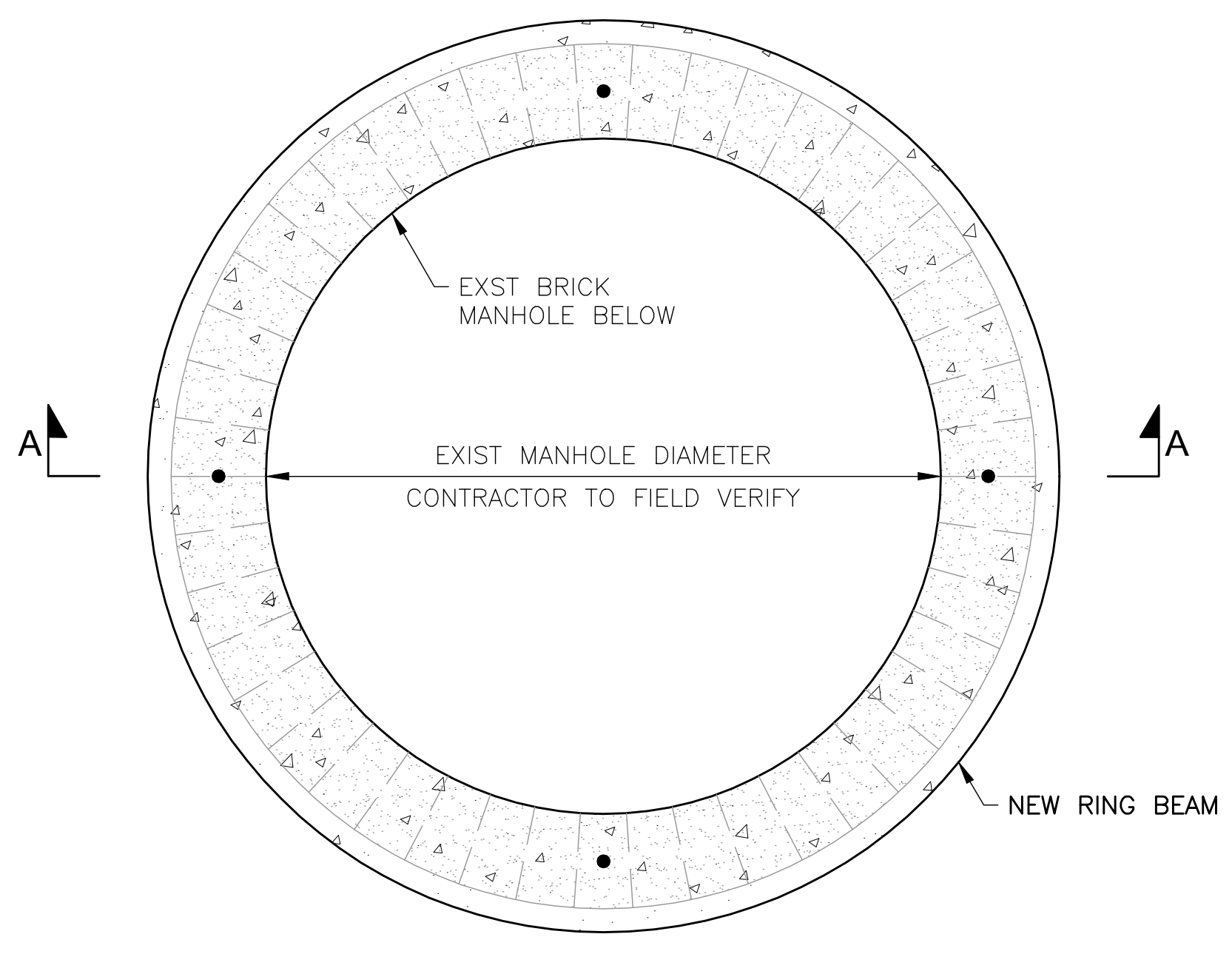
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DR: FW	DES: KAD	CK: MJL	DATE: 01/2024		

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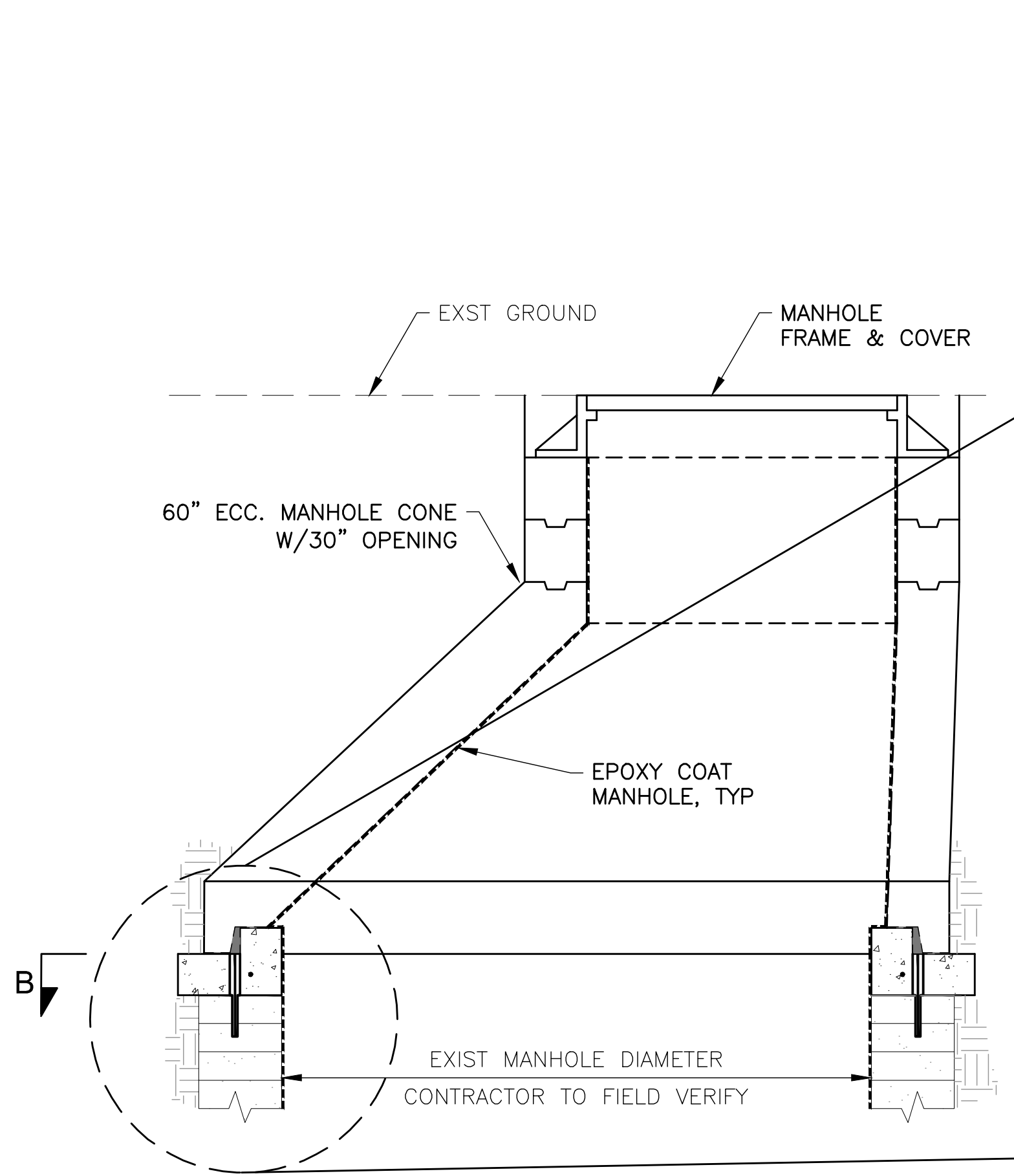


(A) DETACHED LINER REMOVAL
NO SCALE

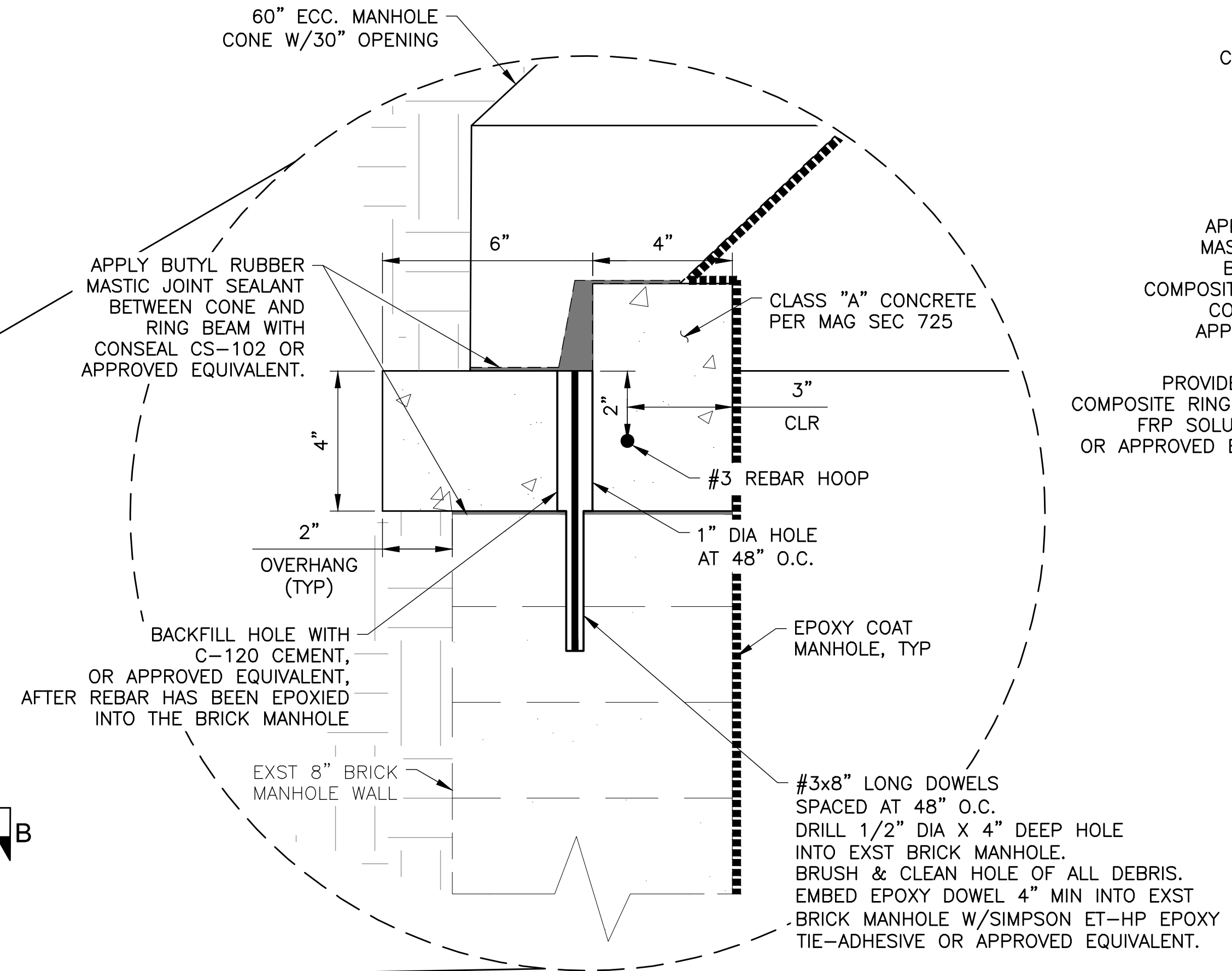
- NOTES:**
- REMOVE ALL PVC LINING AND/ OR EXST PIPE MATERIAL THAT IS DETERIORATED OR THAT IS LOOSE.
 - INSTALL SAUREISEN SUBSTRATE RESURFACER F-121 OR APPROVED EQUAL TO FILL/SMOOTH SURFACE TO ORIGINAL DIMENSION (+/- 1 INCH OF EXST PIPE INTERIOR PROFILE) PER CIPP LINER MANUFACTURER RECOMMENDATION.



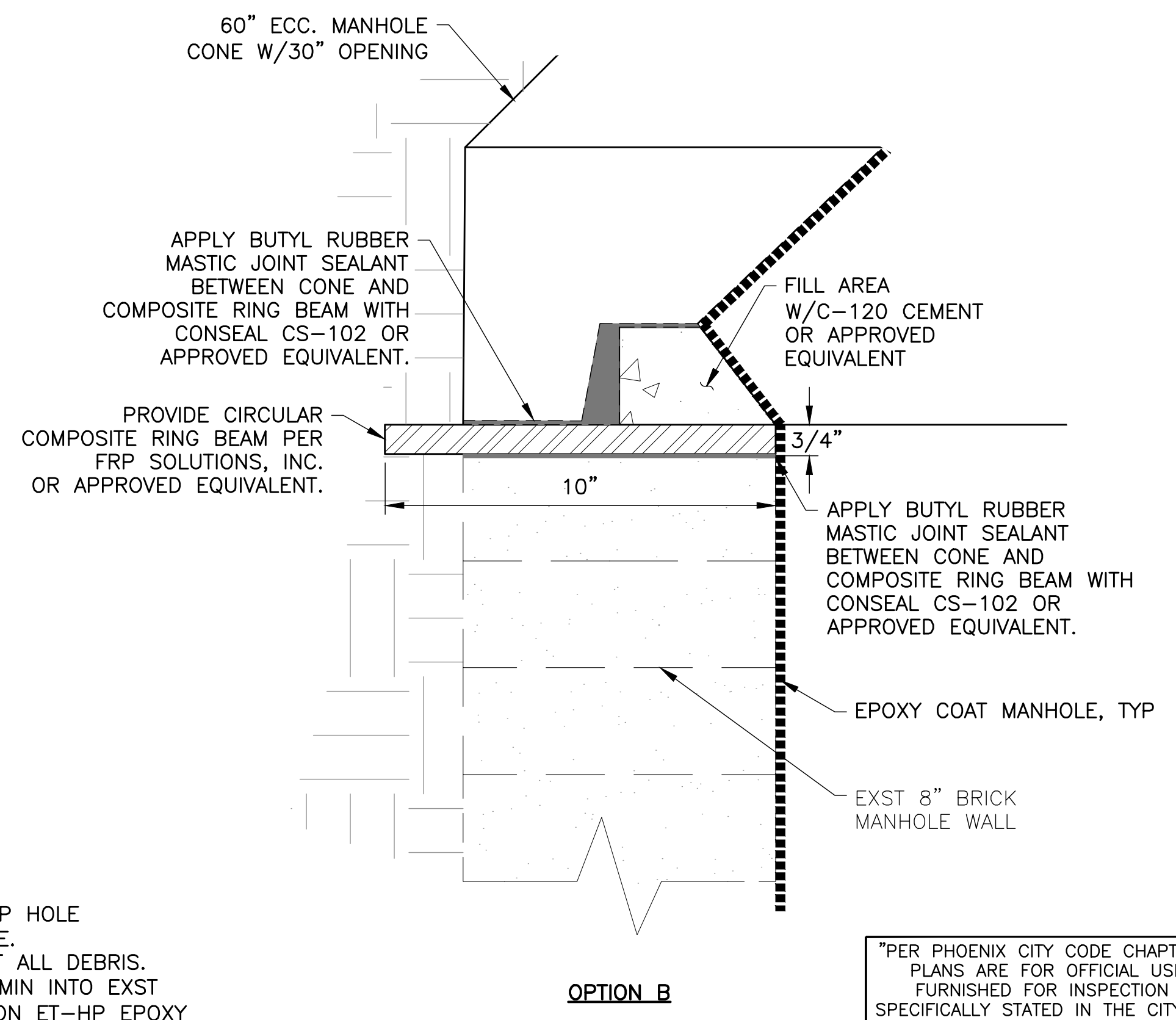
PLAN VIEW B-B



SECTION A-A



OPTION A



OPTION B

(B) BRICK MANHOLE CONE REPLACEMENT DETAIL
NO SCALE

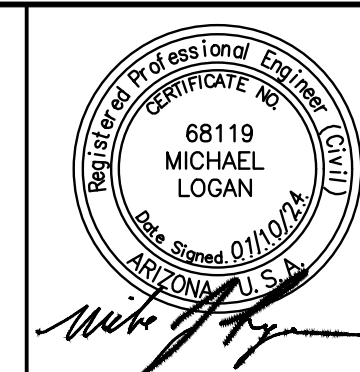
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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT
SEWER & MANHOLE REPAIR DETAILS

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	12	20
SCALE: NTS				

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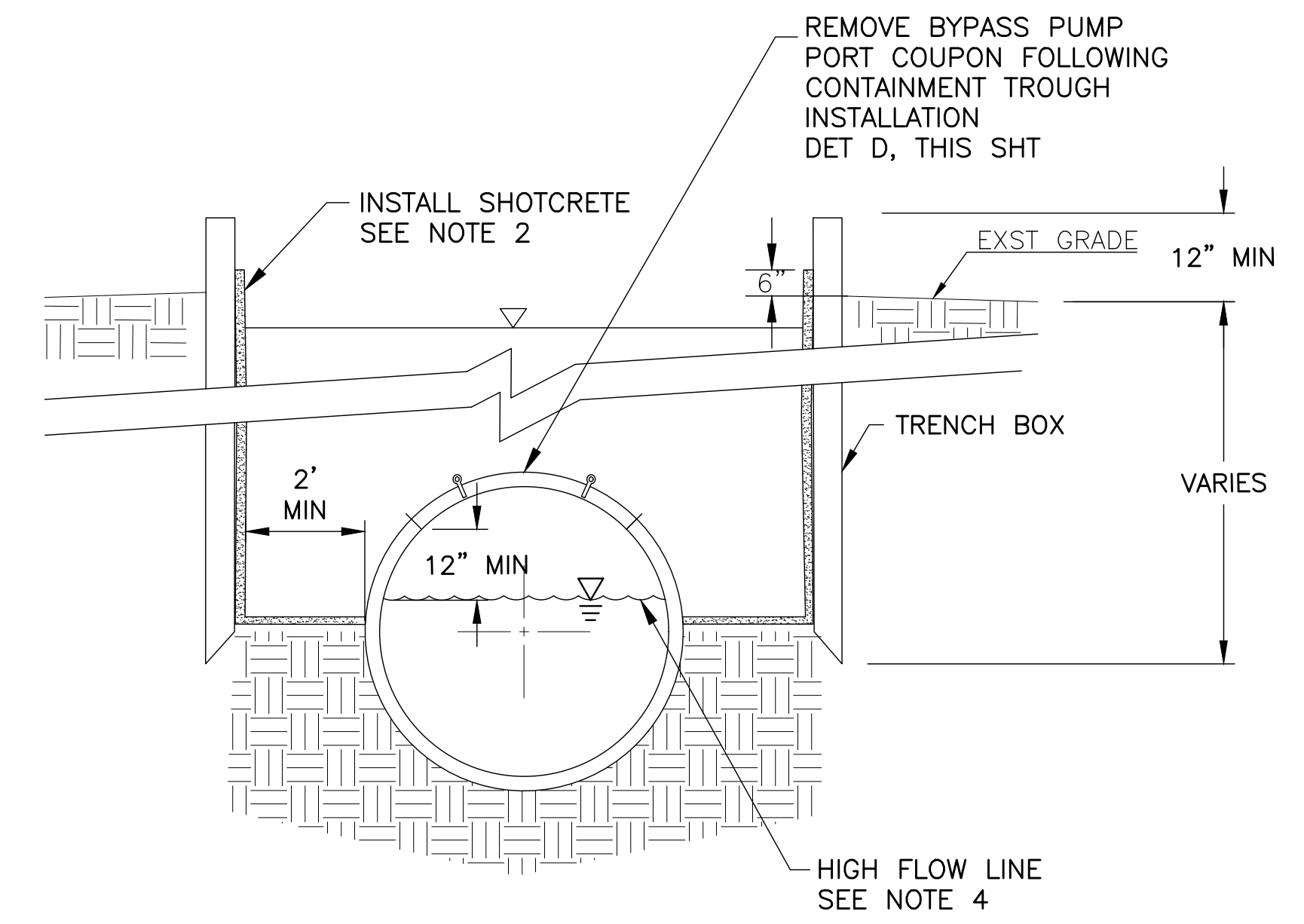


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
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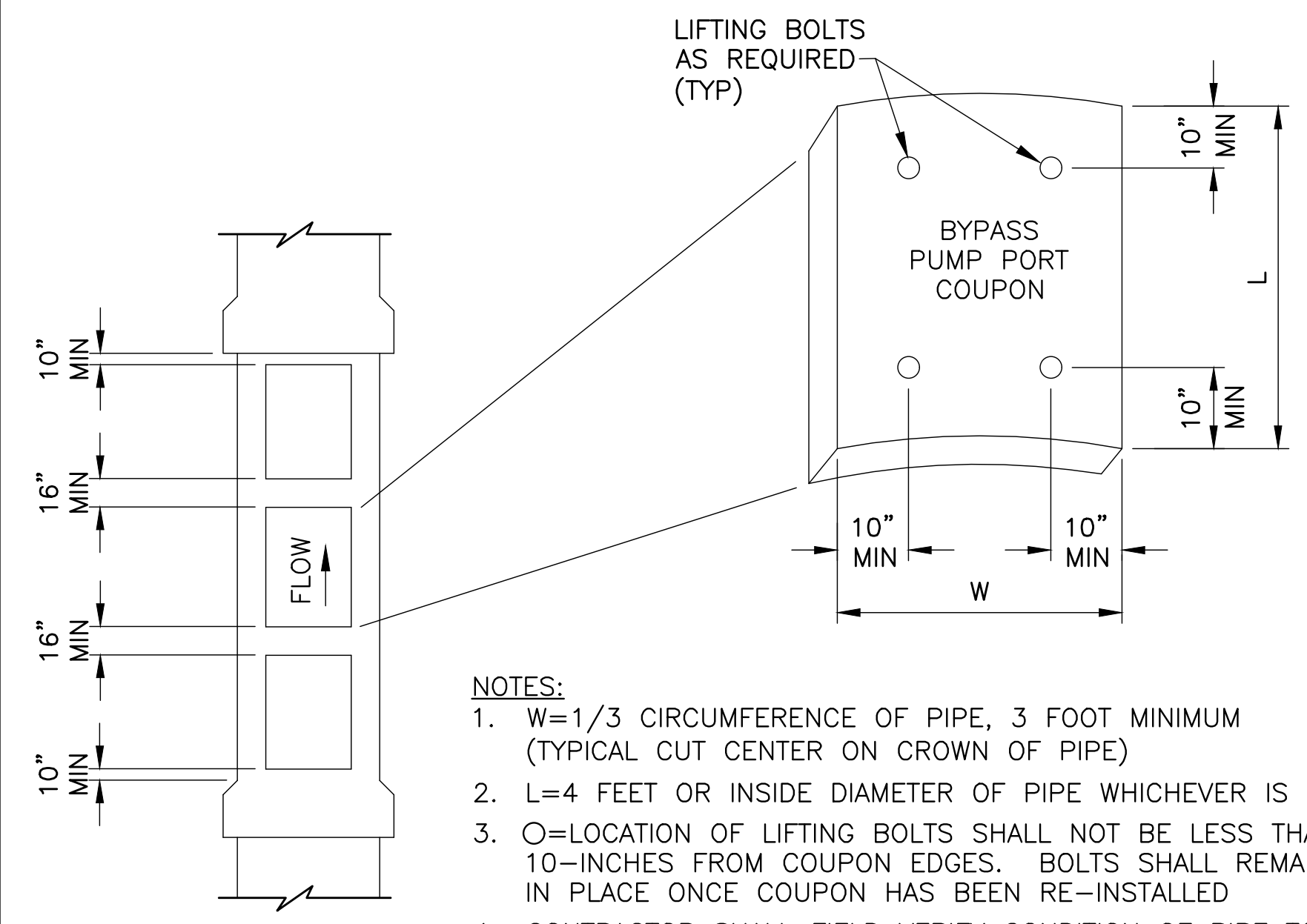
DR: FW | DES: KAD | CK: MJL | DATE: 01/2024

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



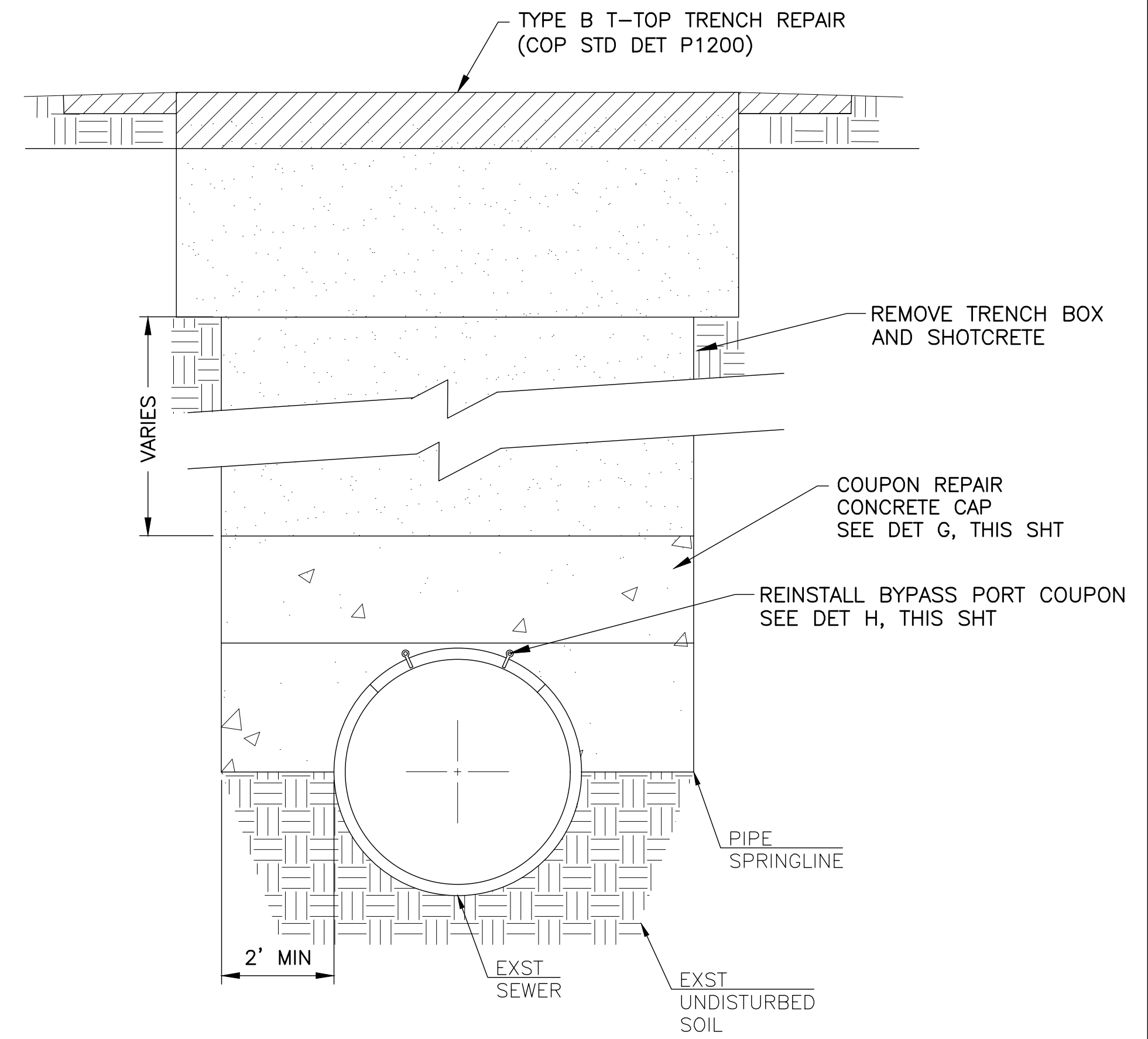
- NOTES:**
1. EXPOSE PIPE AND SET SHORING
 2. SHOTCRETE WALLS AND BOTTOM TO CREATE CONCRETE CONTAINMENT TROUGH
 3. BYPASS PUMP PORT COUPON RESTORATION PER DET E, THIS SHT
 4. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN MAXIMUM WATER LEVEL IN PIPE. SEE TECHNICAL SPECIFICATION SECTION 02145

C TEMPORARY CONTAINMENT TROUGH
NO SCALE

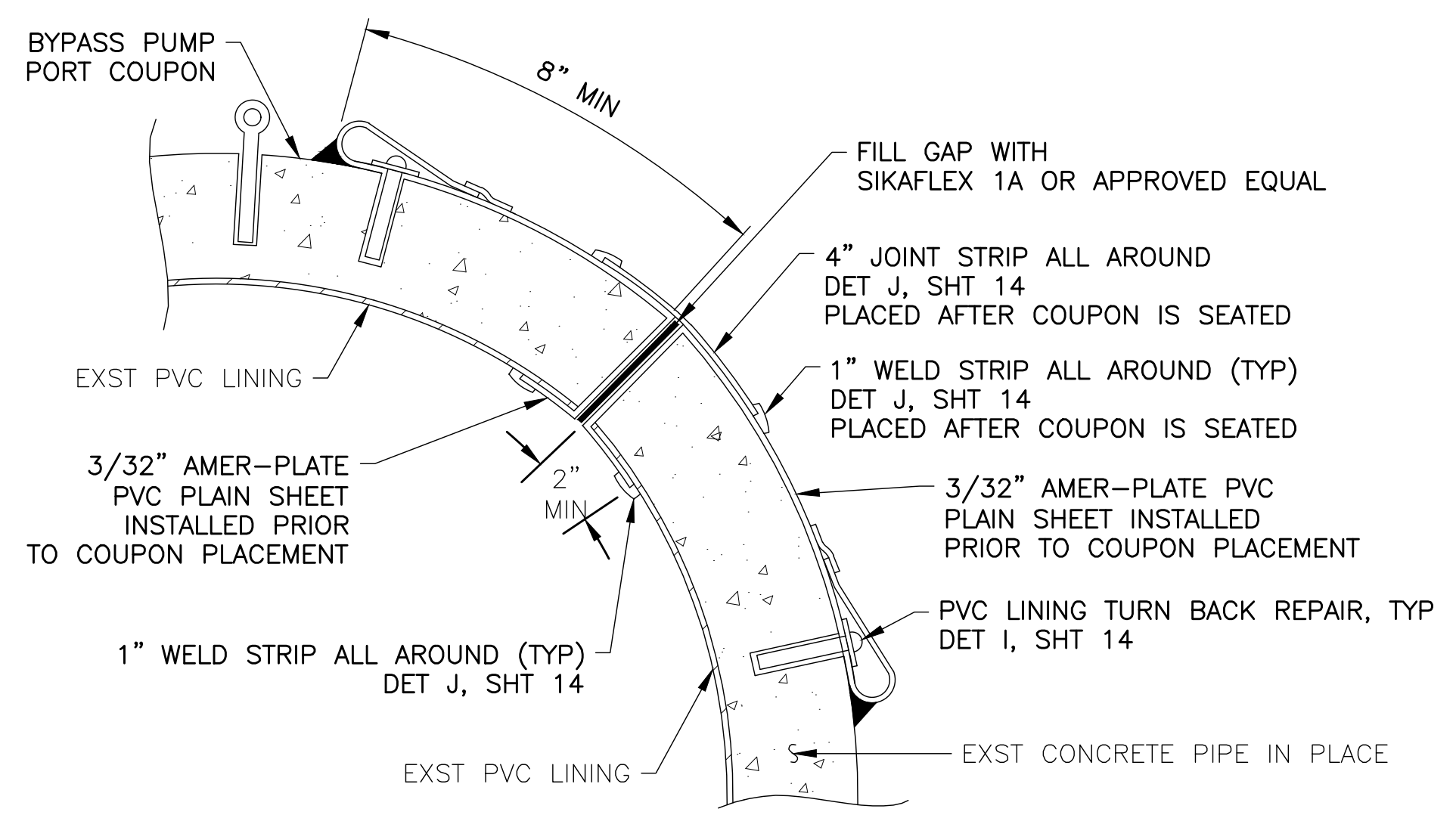


- NOTES:**
1. W=1/3 CIRCUMFERENCE OF PIPE, 3 FOOT MINIMUM (TYPICAL CUT CENTER ON CROWN OF PIPE)
 2. L=4 FEET OR INSIDE DIAMETER OF PIPE WHICHEVER IS LESS
 3. O=LOCATION OF LIFTING BOLTS SHALL NOT BE LESS THAN 10-INCHES FROM COUPON EDGES. BOLTS SHALL REMAIN IN PLACE ONCE COUPON HAS BEEN RE-INSTALLED
 4. CONTRACTOR SHALL FIELD VERIFY CONDITION OF PIPE TO DETERMINE THE LOCATION AND SIZE OF COUPONS TO BE REMOVED
 5. SAWCUTS SHALL BE PERPENDICULAR TO AXIS OF PIPE. CONTRACTOR SHALL UTILIZE EXISTING MANHOLES WHERE AVAILABLE FOR BYPASS PUMP AND DISCHARGE POINTS.
 6. BYPASS PUMP PORT COUPON REPAIR SHALL BE PER DET H, THIS SHT

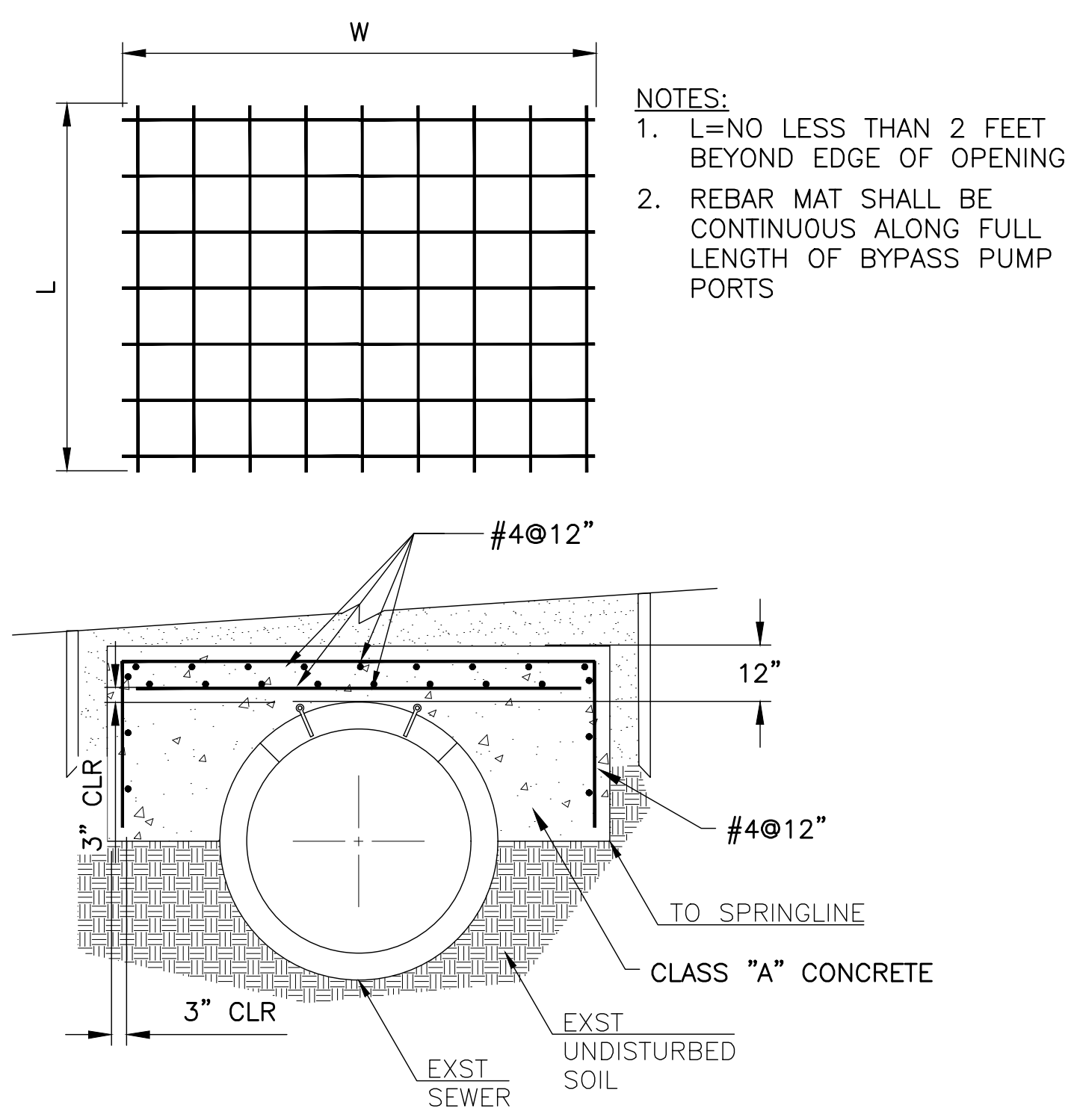
D BYPASS PUMPING PORT DIMENSIONING AND SPACING
NO SCALE



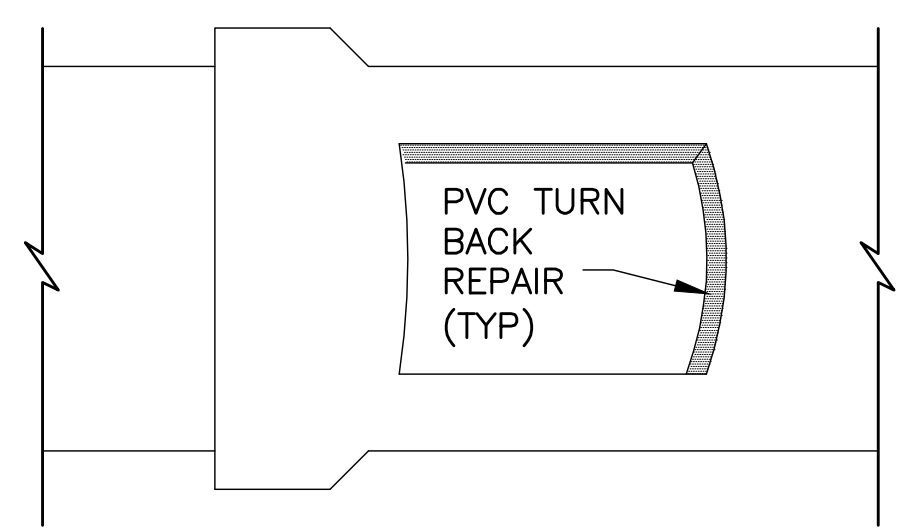
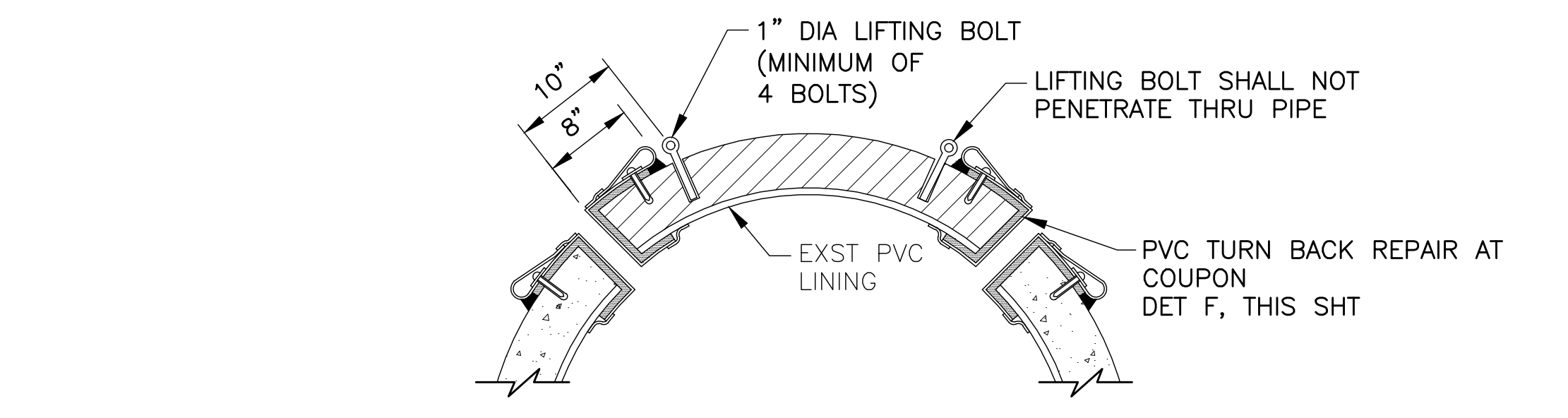
E BYPASS PORT TRENCH BACKFILL
NO SCALE



F PVC LINING TURN BACK REPAIR AT COUPON
NO SCALE



G COUPON REPAIR CONCRETE CAP
NO SCALE



- NOTES:**
1. ANY SAW OVERCUT OR DAMAGE TO EXISTING PVC LINING SHALL BE REPAIRED BY THE CONTRACTOR
 2. APPLICATION OF PVC LINING SHALL BE PERFORMED BY CERTIFIED APPLICATOR

H BYPASS PUMP PORT COUPON REPAIR
NO SCALE

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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT
SEWER BYPASS DETAILS

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	13	20

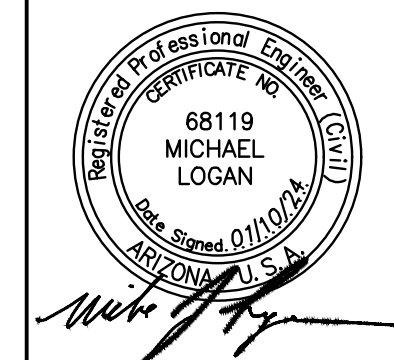
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16-WS90500272SSD04-IV-12.dwg 01/10/24

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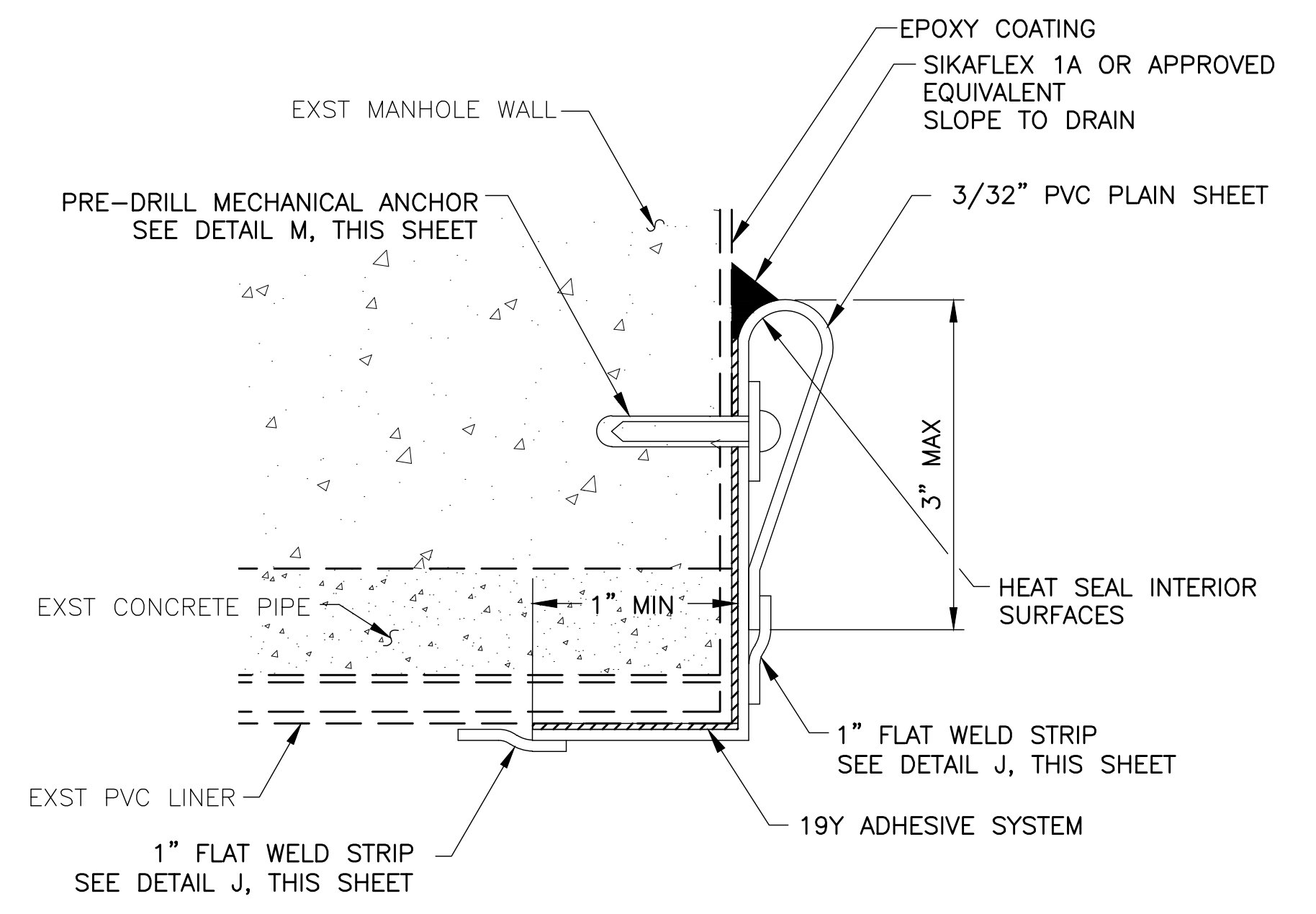
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CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	14	20	

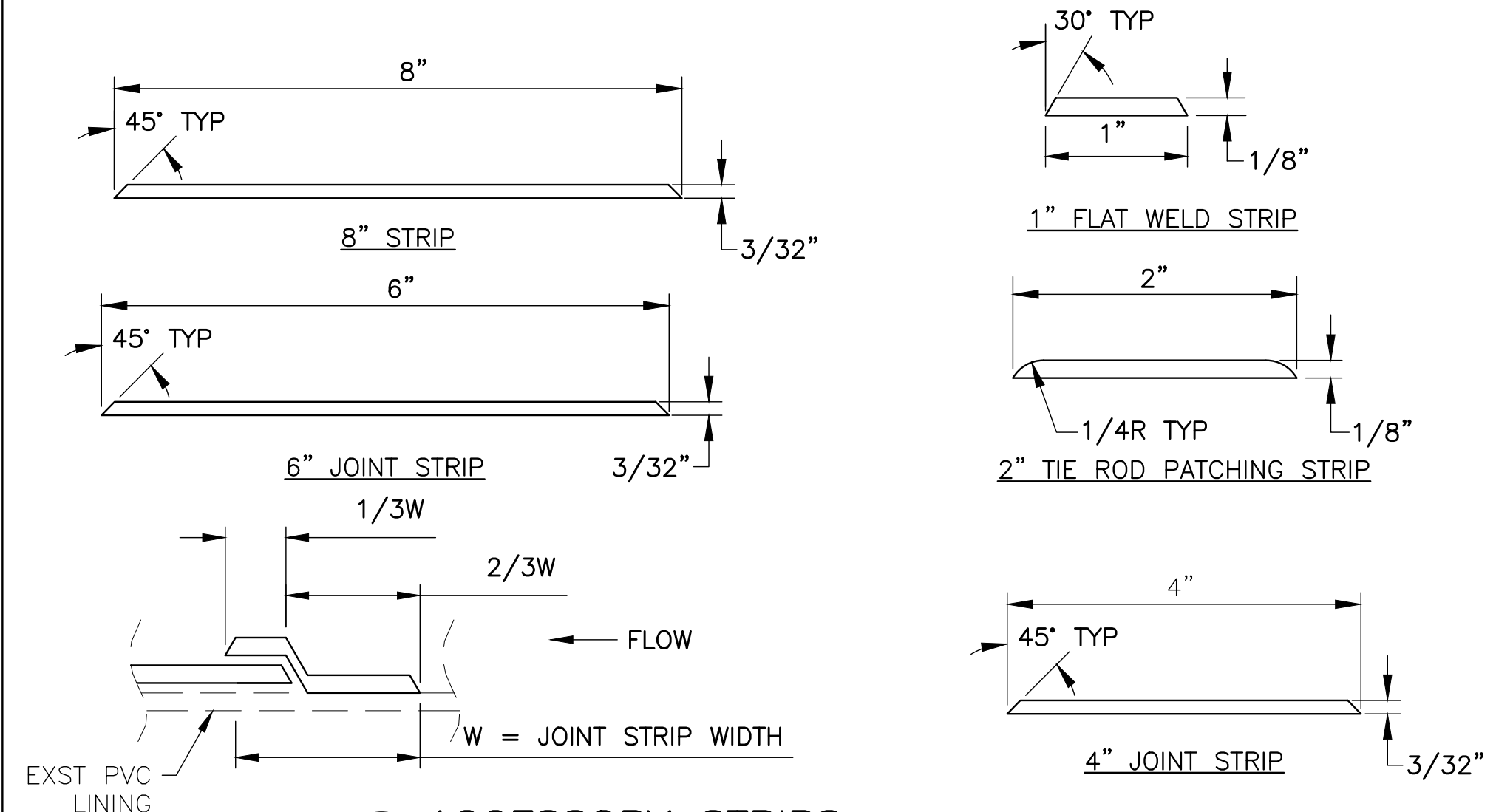
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DR: FW | DES: KAD | CK: MJL | DATE: 01/2024



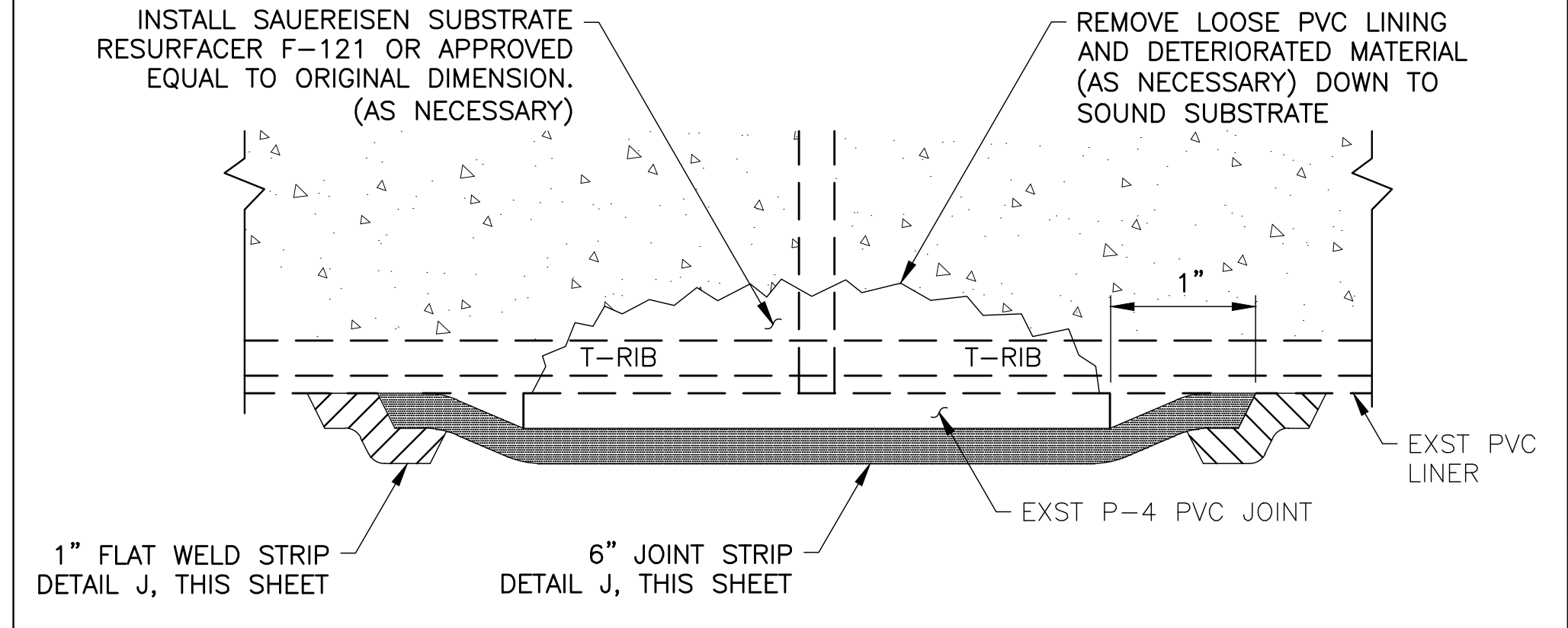
I PVC TURN BACK REPAIR TO EPOXY COATED SURFACE
NO SCALE

- NOTES:**
- MECHANICAL ANCHOR SHALL BE ZAMAC NAIL WITH MUSHROOM HEAD OR APPROVED EQUIVALENT. MINIMUM 1/4 INCHES DIAMETER AND MINIMUM 1-1/4 INCHES IN LENGTH AND PLACED ON MAXIMUM 6 INCH CENTERS.
 - SHOP DRAWING SUBMITTAL REQUIRED ON ALL COMPONENTS.
 - EPOXY COAT MANHOLE PRIOR TO PVC TURN BACK INSTALLATION.
 - REFERENCE TECHNICAL SPECIFICATION 13000 - SPECIAL PROTECTIVE MATERIALS INSTALLATION FOR ADDITIONAL INFORMATION.



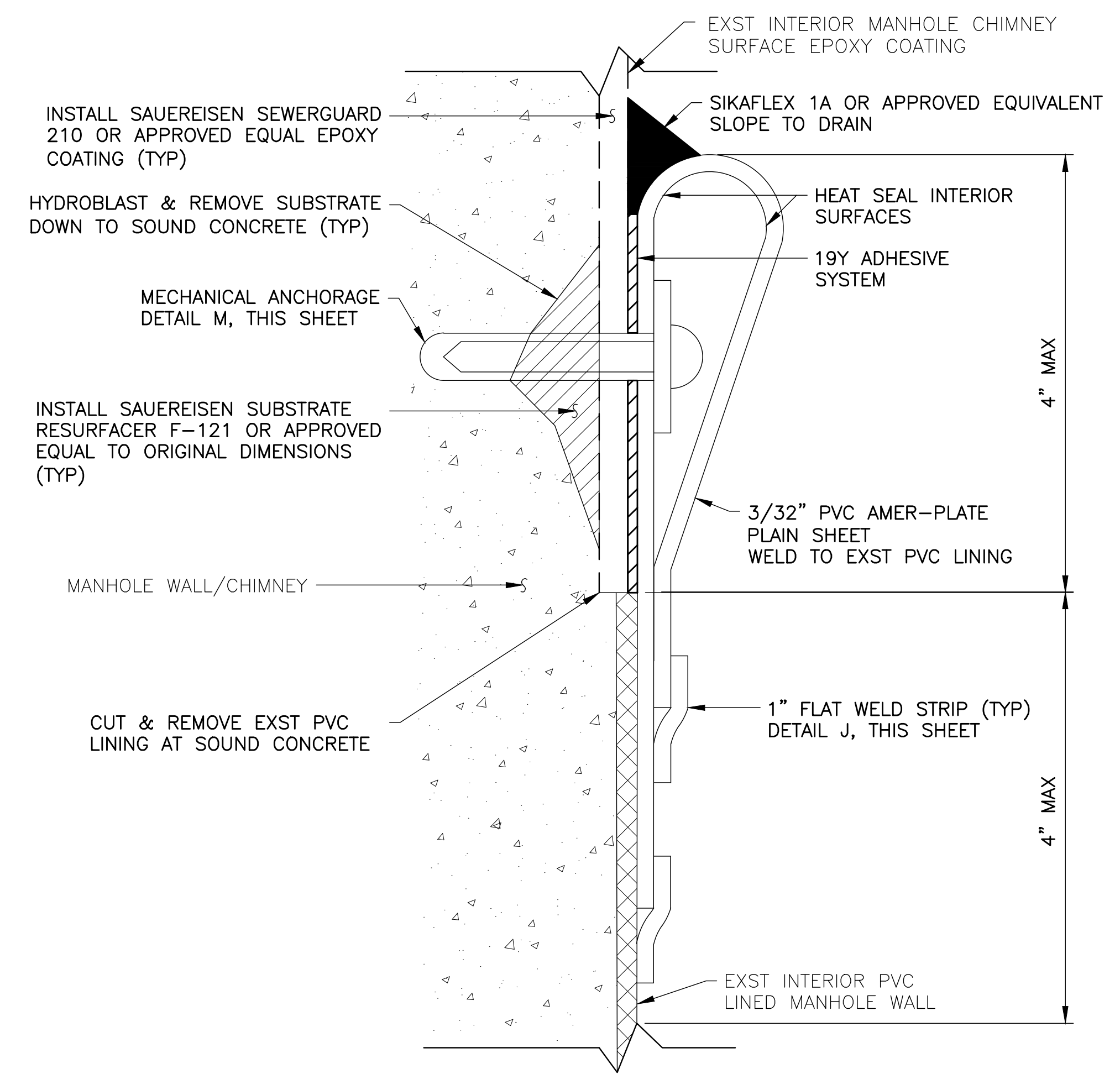
J ACCESSORY STRIPS
NO SCALE

- NOTE:**
- SHOP DRAWING SUBMITTAL REQUIRED ON ALL COMPONENTS.

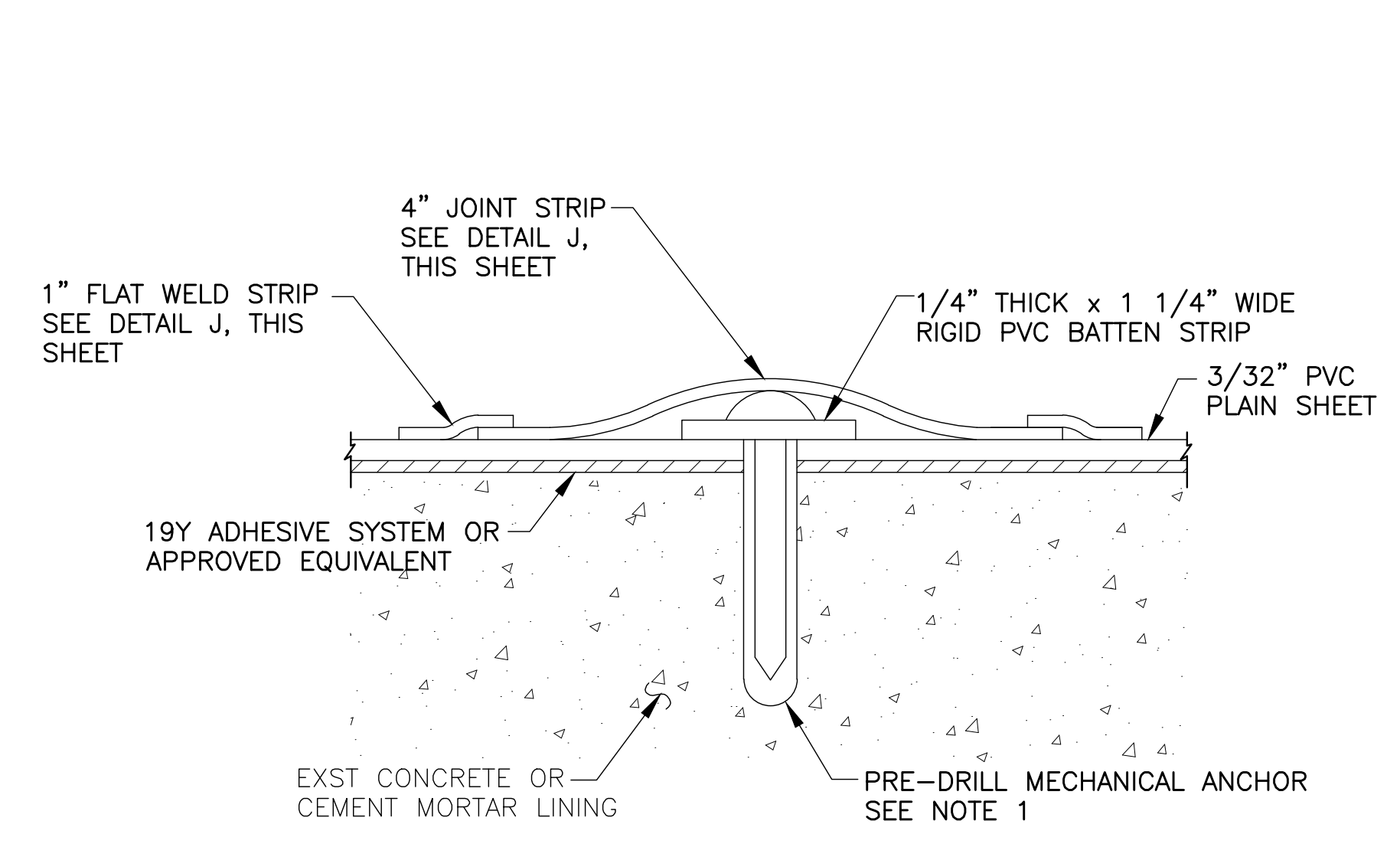


K TYPE P-1 JOINT (MODIFIED)
NO SCALE

- NOTES:**
- PREPARE EXISTING JOINT STRIP BY REMOVING ANY LOOSE MATERIAL AND APPLY A NEW JOINT STRIP OVER THE JOINT.
 - NEW JOINT STRIPS SHALL BE APPLIED TO THE ENTIRE EXISTING JOINT LENGTH, USING ONE CONTINUOUS JOINT STRIP.
 - SEE TECHNICAL SPECIFICATION SECTION 13000 SPECIAL PROTECTIVE MATERIALS INSTALLATION FOR ADDITIONAL INFORMATION.

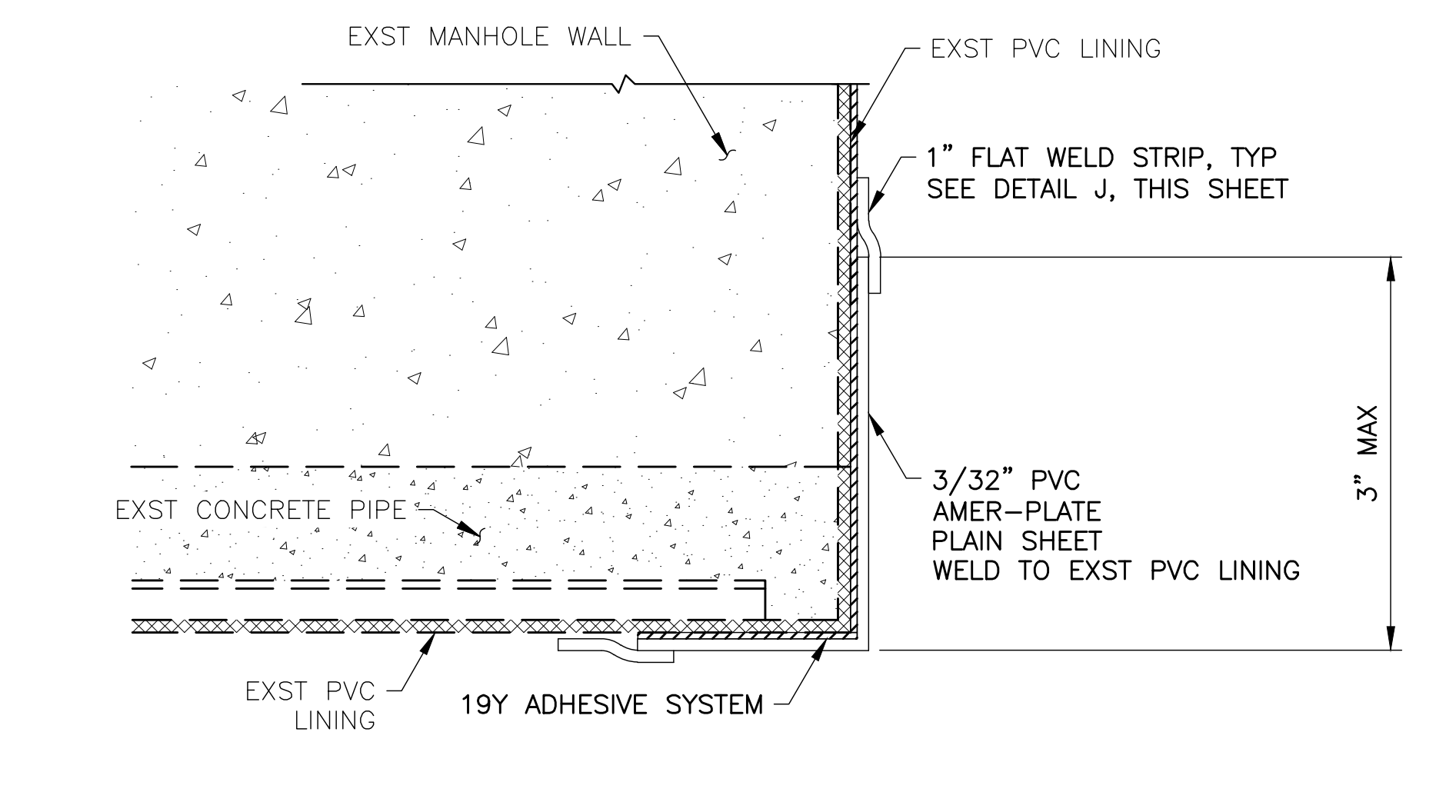


L TYPICAL EPOXY COATING/PVC LINING INTERFACE REPAIR
NO SCALE



M MECHANICAL ANCHORAGE OF PVC PLAIN SHEET TO EXISTING CONCRETE OR CEMENT MORTAR LINING
NO SCALE

- NOTES:**
- MECHANICAL ANCHOR SHALL BE ZAMAC NAIL WITH MUSHROOM HEAD OR APPROVED EQUIVALENT. 1/4 INCHES DIAMETER AND MINIMUM 1-1/4 INCHES LENGTH AND PLACED ON MAXIMUM 6 INCH CENTERS.
 - MECHANICAL ANCHORAGE OF AMER-PLATE PLAIN SHEET TO EXISTING CONCRETE/CEMENT MORTAR LINING DETAIL SHOWN IS TYPICAL OF AMERON DETAIL PLD-PS-040F.
 - SHOP DRAWING SUBMITTAL REQUIRED ON ALL COMPONENTS.



N PVC LINING TURN BACK TO PVC LINED MANHOLE REPAIR
NO SCALE

- NOTE:**
- SHOP DRAWING SUBMITTAL REQUIRED ON ALL COMPONENTS.

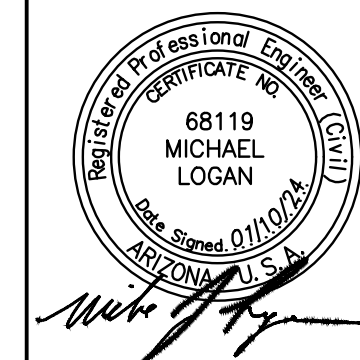
"PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW."
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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PVC LINING DETAILS

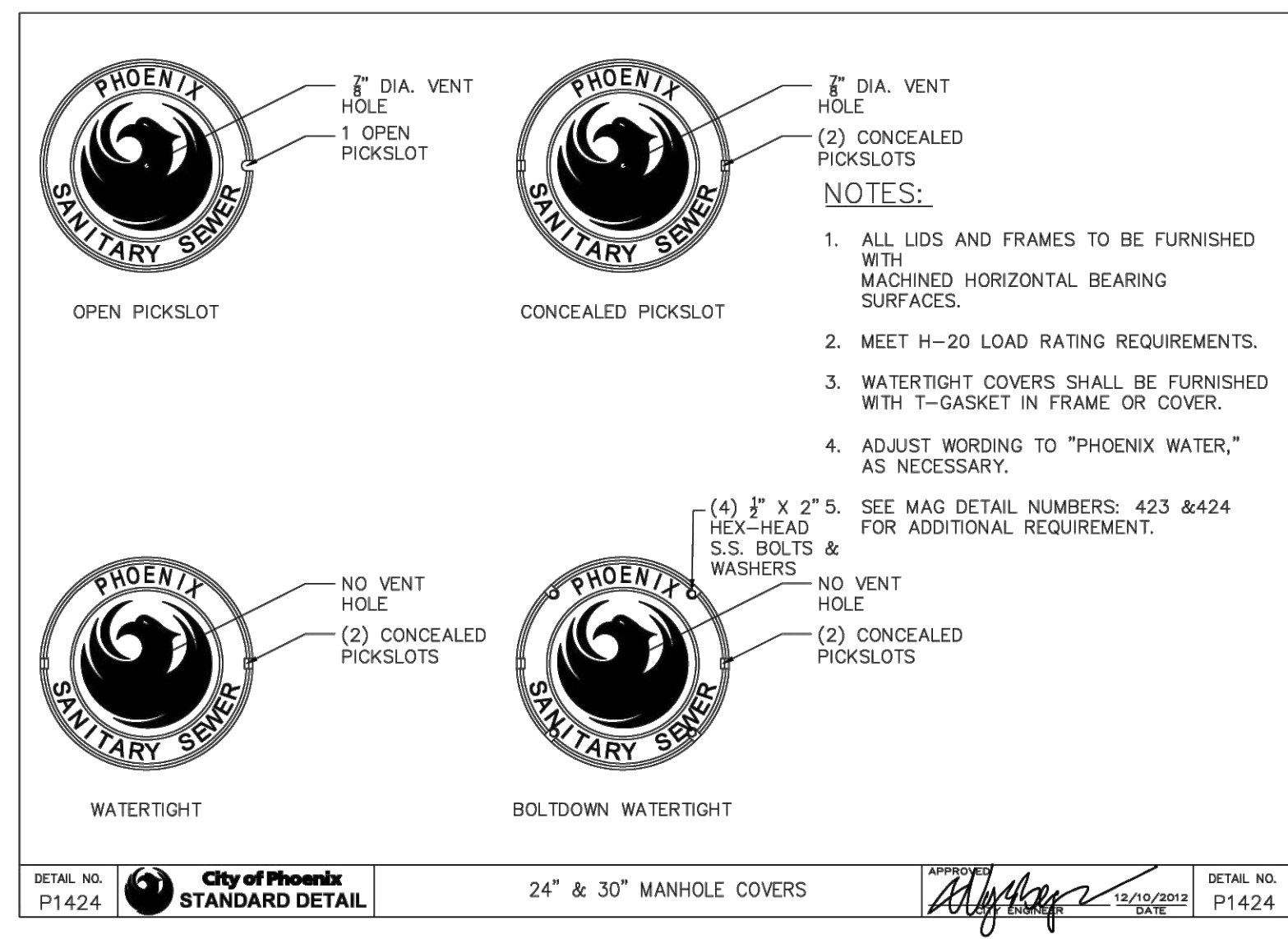
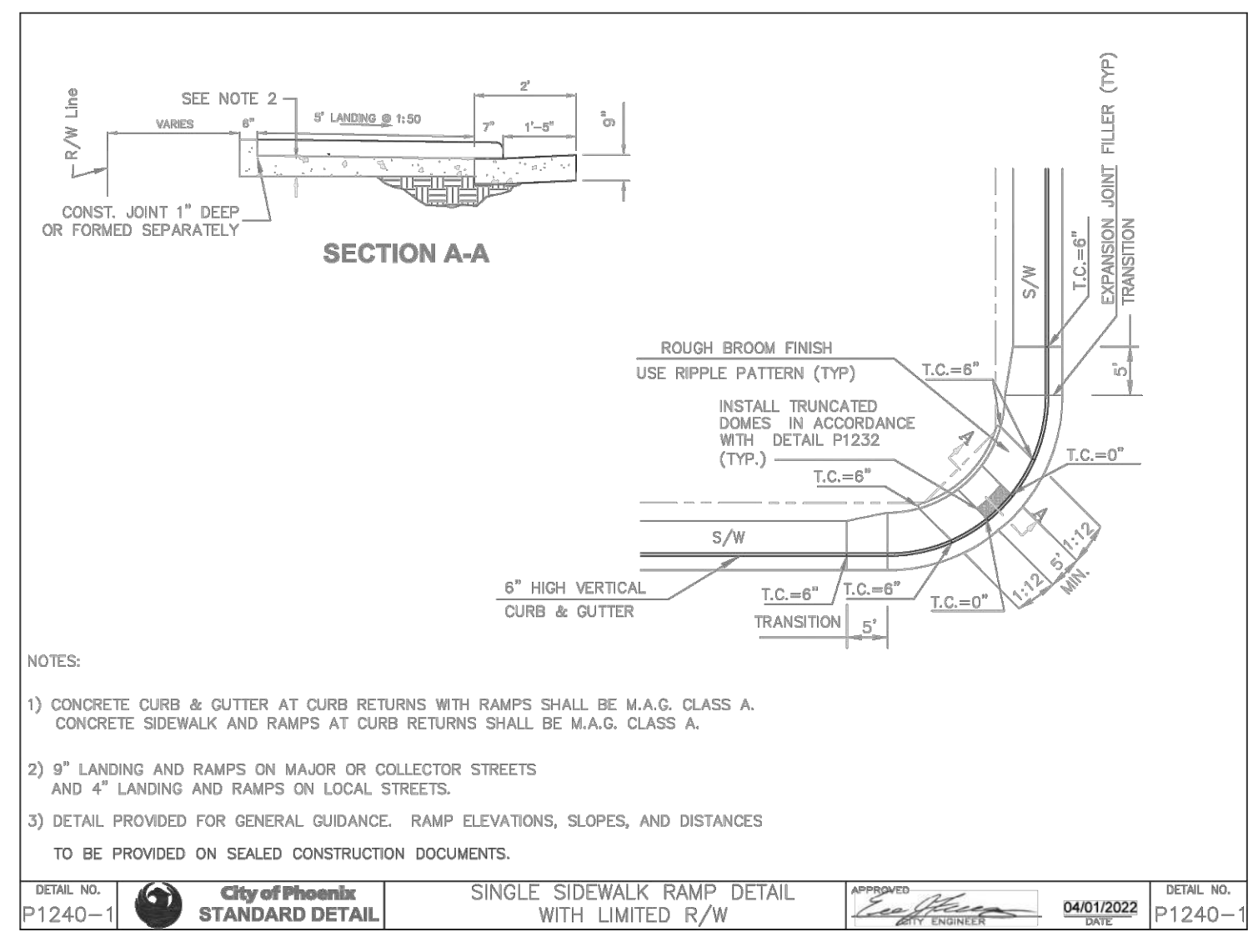
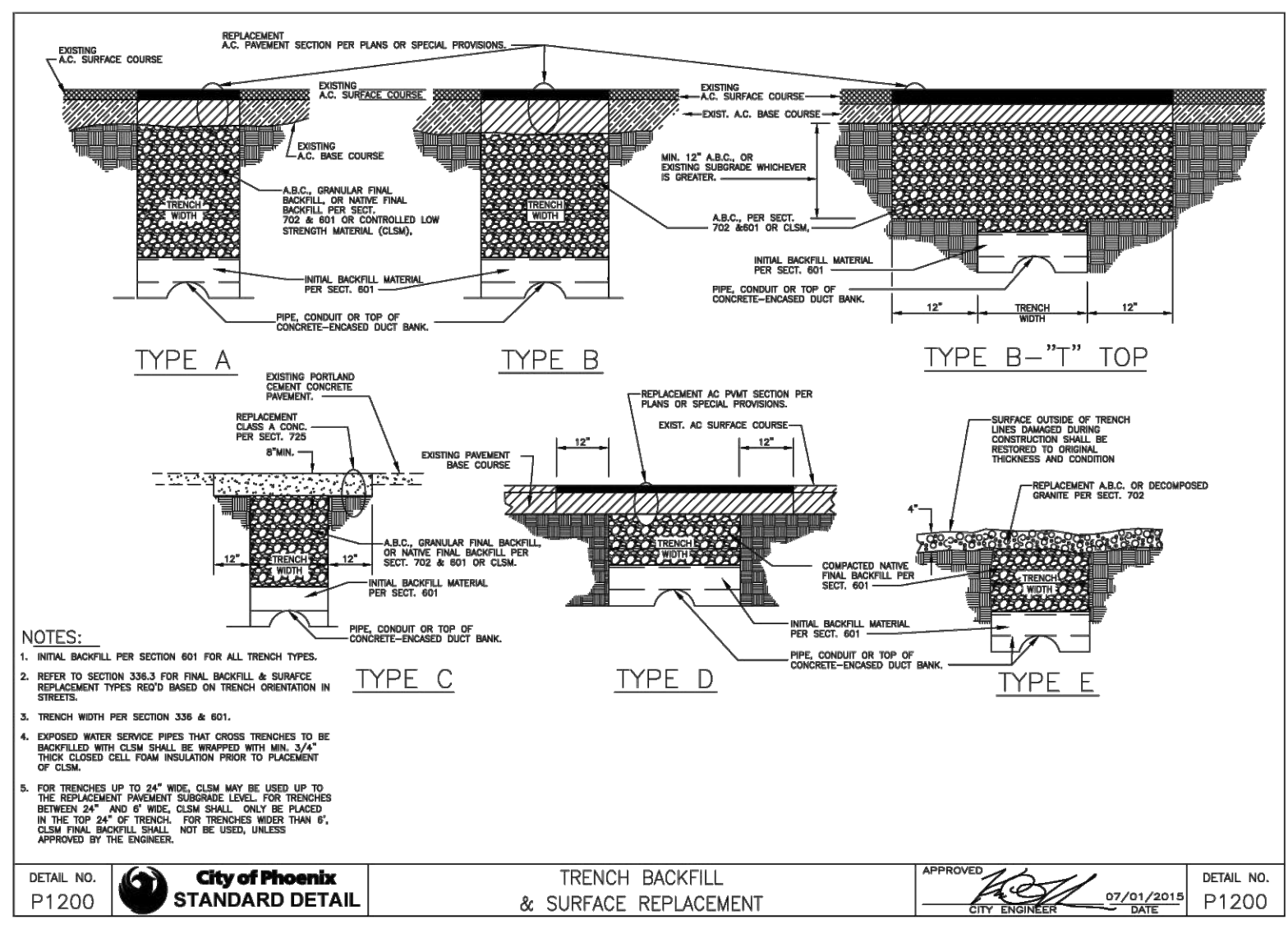
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DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	14	20
SCALE:				

17-WS90500272SSD05-IV-12.dwg 01/10/24

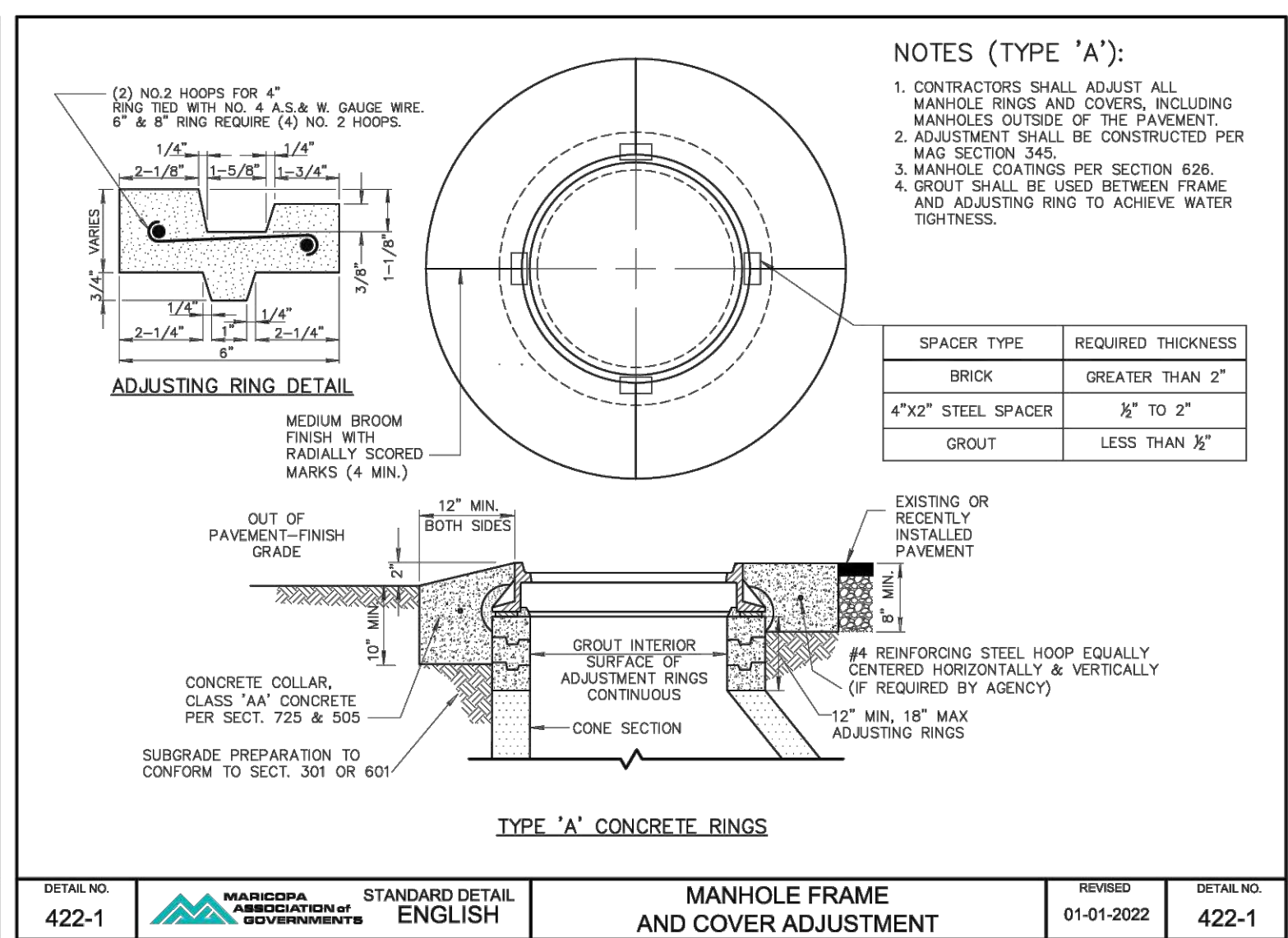
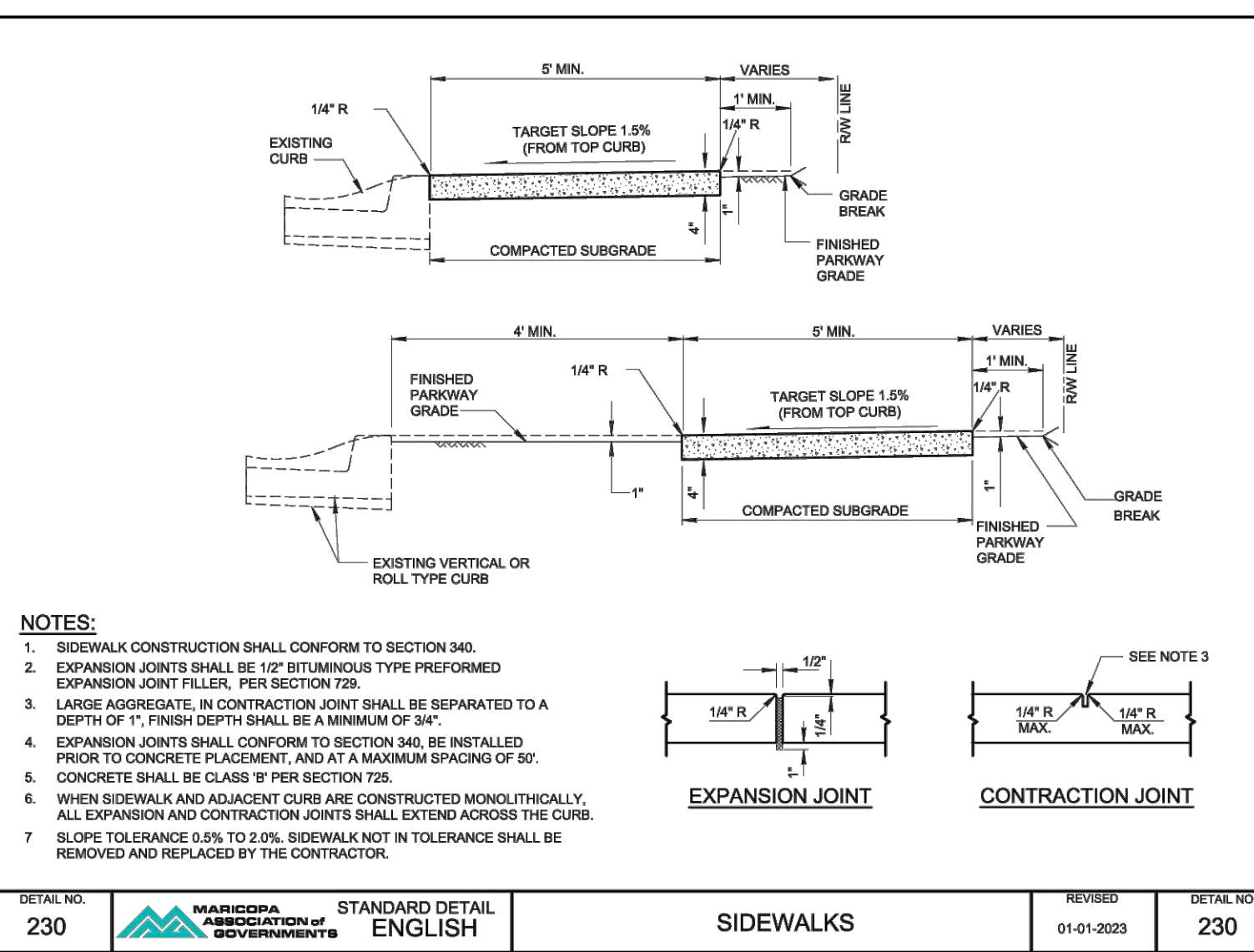
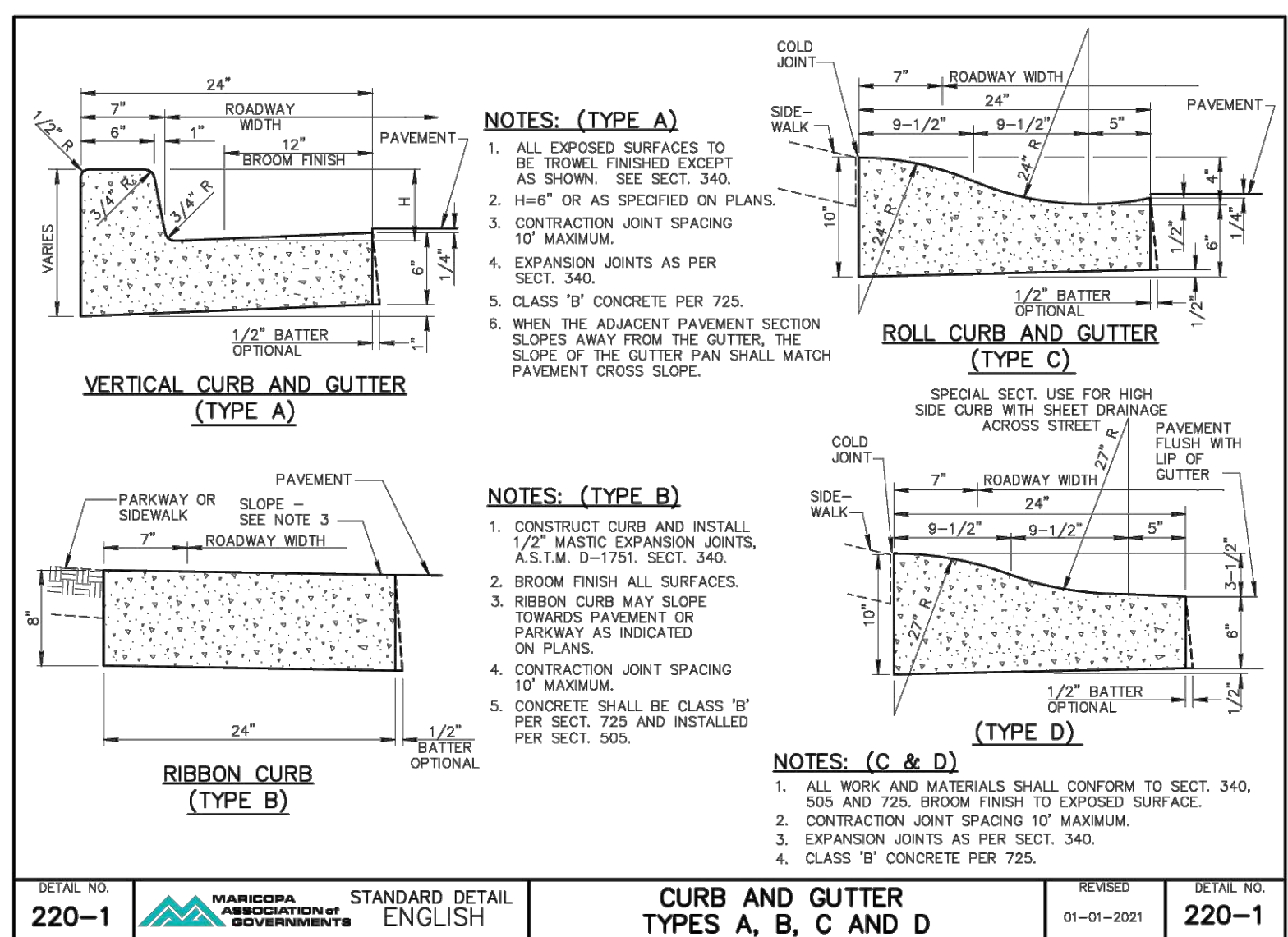


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272		20	
DIBBLE					
DR: FW	DES: KAD	CK: MJL	DATE: 01/2024		

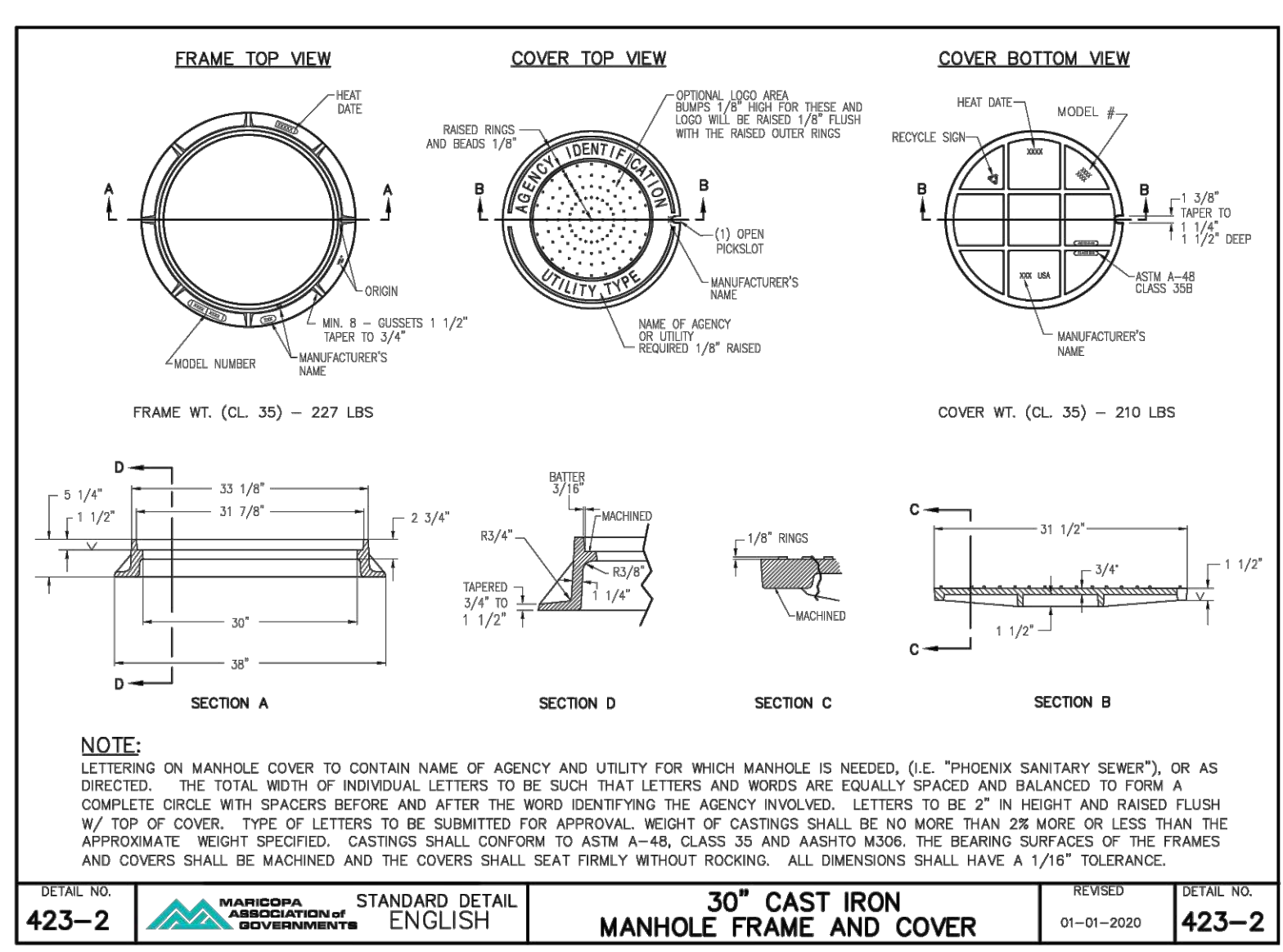
NO.	DESCRIPTION	REV BY	CHK BY	DATE



NO.	DESCRIPTION	REV BY	CHK BY	DATE



NO.	DESCRIPTION	REV BY	CHK BY	DATE



"PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW."
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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT
CITY OF PHOENIX STANDARD DETAILS

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	15	20
SCALE:				

WS90500272SSD07-IV_12.dwg 01/10/24

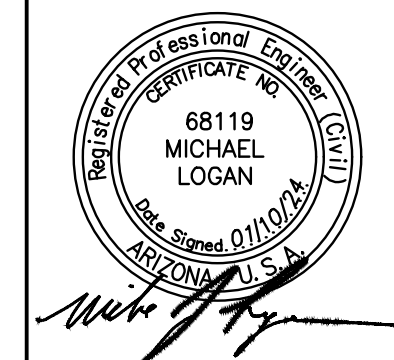
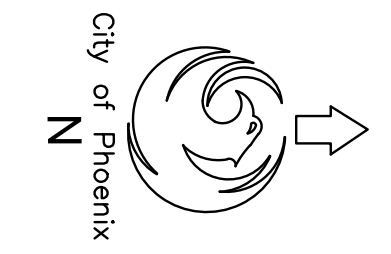
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NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

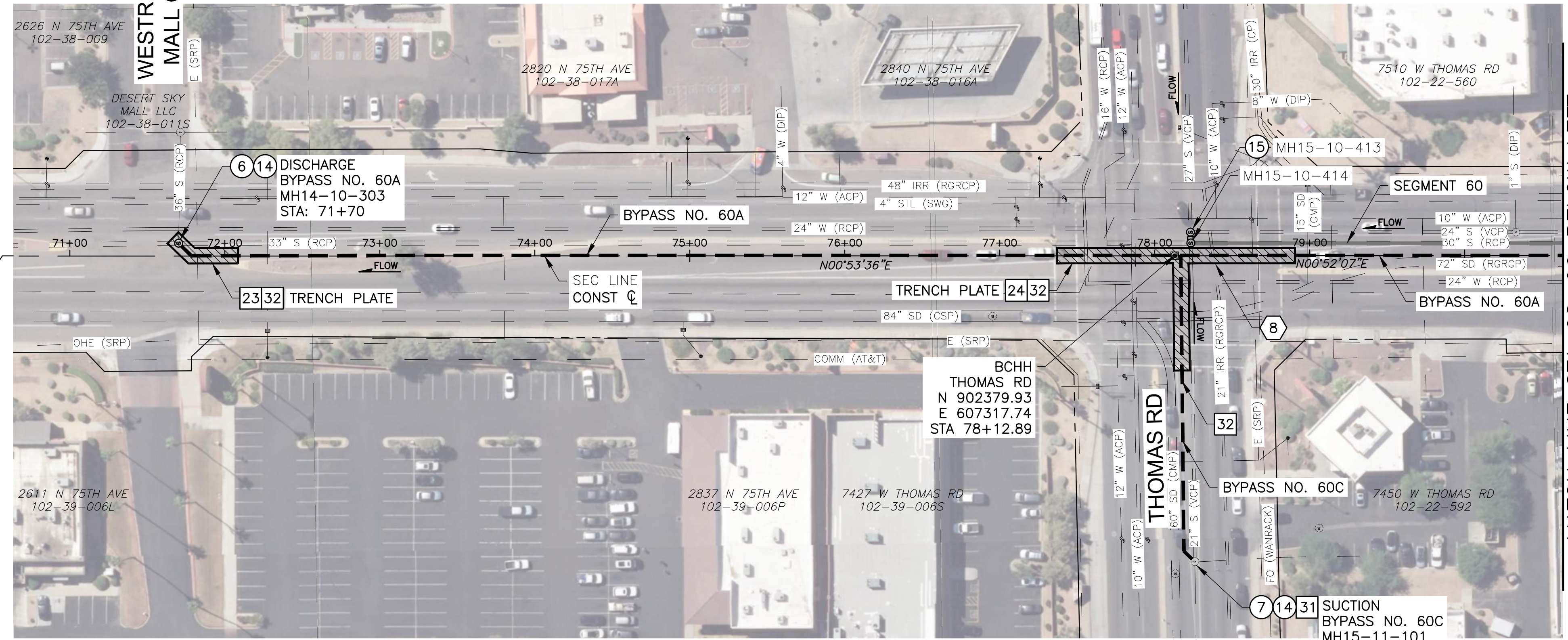
NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	16	20	

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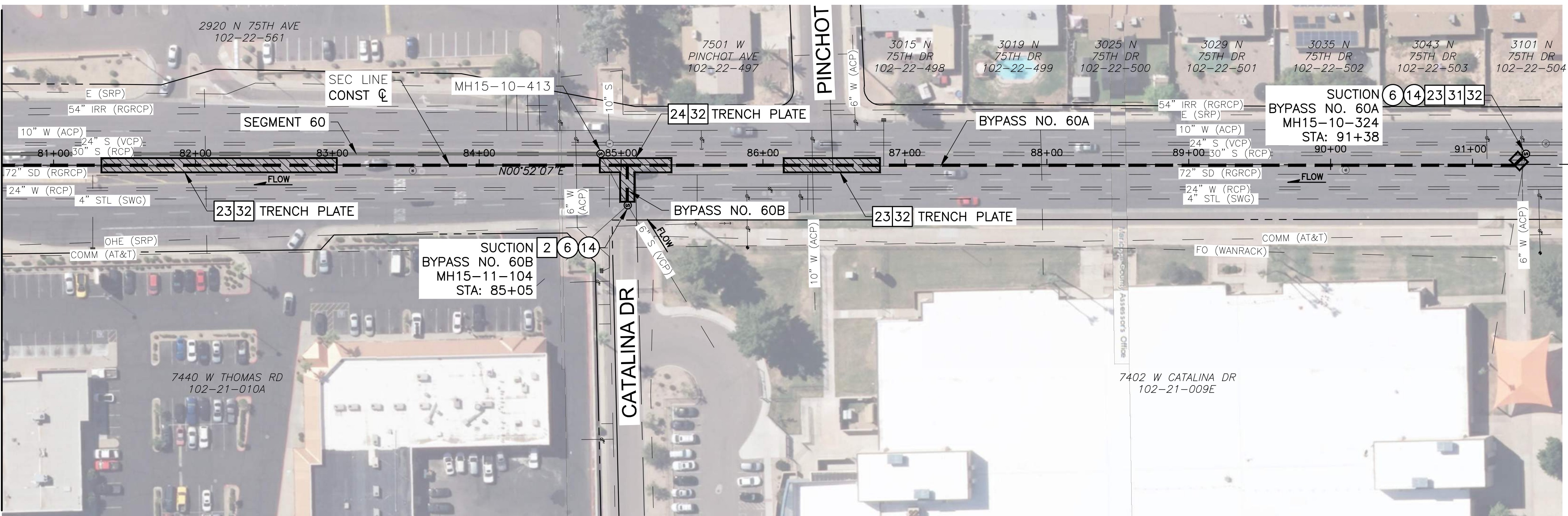
DR: FW DES: KAD CK: MJL DATE: 01/2024



75TH AVE

MATCH LINE STA 68+00 BELOW LEFT

MATCH LINE STA 68+00 ABOVE RIGHT



75TH AVE

- REMOVAL NOTES**
- 2 REMOVE MANHOLE STEPS
TECHNICAL SPECIFICATION SECTION 02760 6 EA
 - 23 REMOVE & REPLACE PAVEMENT
COP STD DET P1200, TYPE A 250 SY
 - 24 REMOVE & REPLACE PAVEMENT
COP STD DET P1200, TYPE B 274 SY
 - 31 REMOVE MANHOLE CONE FOR
BYPASS & REPLACE CONE
DET B, SHT 12 1 EA
 - 32 CRACK SEAL & MICRO SEAL ASPHALT
PER COP PAVEMENT CUT POLICY 6150 SY

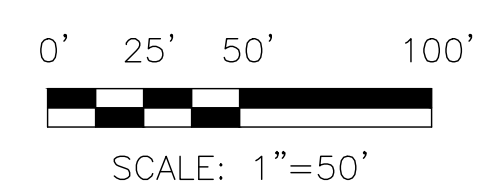
- CONSTRUCTION NOTES**
- 6 EPOXY COAT MANHOLE CHANNEL,
THROAT, BENCH, WALL,
CONE & CHIMNEY
MH REHAB SUMMARY, SHT 11
TECHNICAL SPECIFICATION 09710. 3 EA
 - 7 EPOXY COAT MANHOLE
CHANNEL & BENCH
TECHNICAL SPECIFICATION 09710. 1 EA
 - 14 REPLACE 30" MANHOLE FRAME,
COVER & COLLAR
COP STD DET P1424
MAG STD DET 423-2
MAG STD DET 422 4 EA
 - 15 TEMPORARY PIPE PLUG
IN EAST OUTLET NPI

REFERENCE NOTES

- 8 SRP IRRIGATION CROSSING

- NOTE:
- REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS.
 - UTILITIES ARE MAPPED USING CITY GIS - CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.
 - REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.

CONCEPTUAL ONLY
CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION



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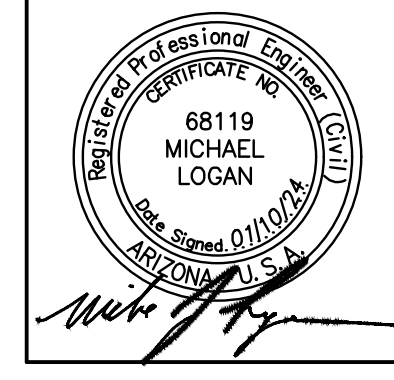
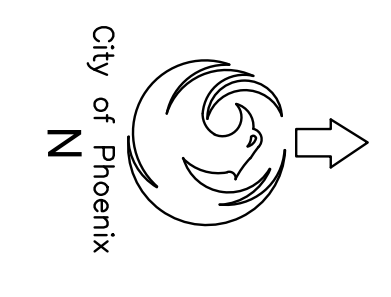
PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

CONCEPTUAL BYPASS PLAN
NO. 60A, 60B, 60C

DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	16	20

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

18-WS90500272BYP-01-IV_12.dwg 01/10/24



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	17	20	

DIBBLE

DR: FW DES: KAD CK: MJL DATE: 01/2024

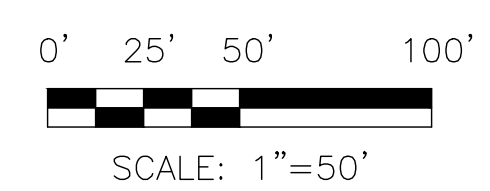
REMOVAL NOTES		
2	REMOVE MANHOLE STEPS TECHNICAL SPECIFICATION SECTION 02760	12 EA
21	REMOVE & REPLACE CONCRETE SIDEWALK MAG STD DET 230	100 SF
24	REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B	141 SY
26	REMOVE & REPLACE CONCRETE SINGLE CURB MAG STD DET 220-1, TYPE A	50 LF
27	RESTORE LANDSCAPING	1 LS
28	REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B T-TOP	225 SY
32	CRACK SEAL & MICRO SEAL ASPHALT PER COP PAVEMENT CUT POLICY	3170 SY

CONSTRUCTION NOTES		
1	CUT COUPON FOR SUCTION PIT DET C-H, SHT 15	1 EA
7	EPOXY COAT MANHOLE CHANNEL & BENCH TECHNICAL SPECIFICATION 09710.	2 EA
9	REPAIR MANHOLE PER TECHNICAL SPECIFICATION 09710. REFER TO TABLE 1, SHT 11	2 EA
14	REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422	2 EA
19	TEMPORARY FLOW THROUGH PLUG EAST & WEST INLETS	NPI

REFERENCE NOTES		
8	SRP IRRIGATION CROSSING	

- NOTE:
- REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS.
 - UTILITIES ARE MAPPED USING CITY GIS - CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CHASSING UTILITIES TO AVOID DAMAGE.
 - REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.

CONCEPTUAL ONLY
CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION



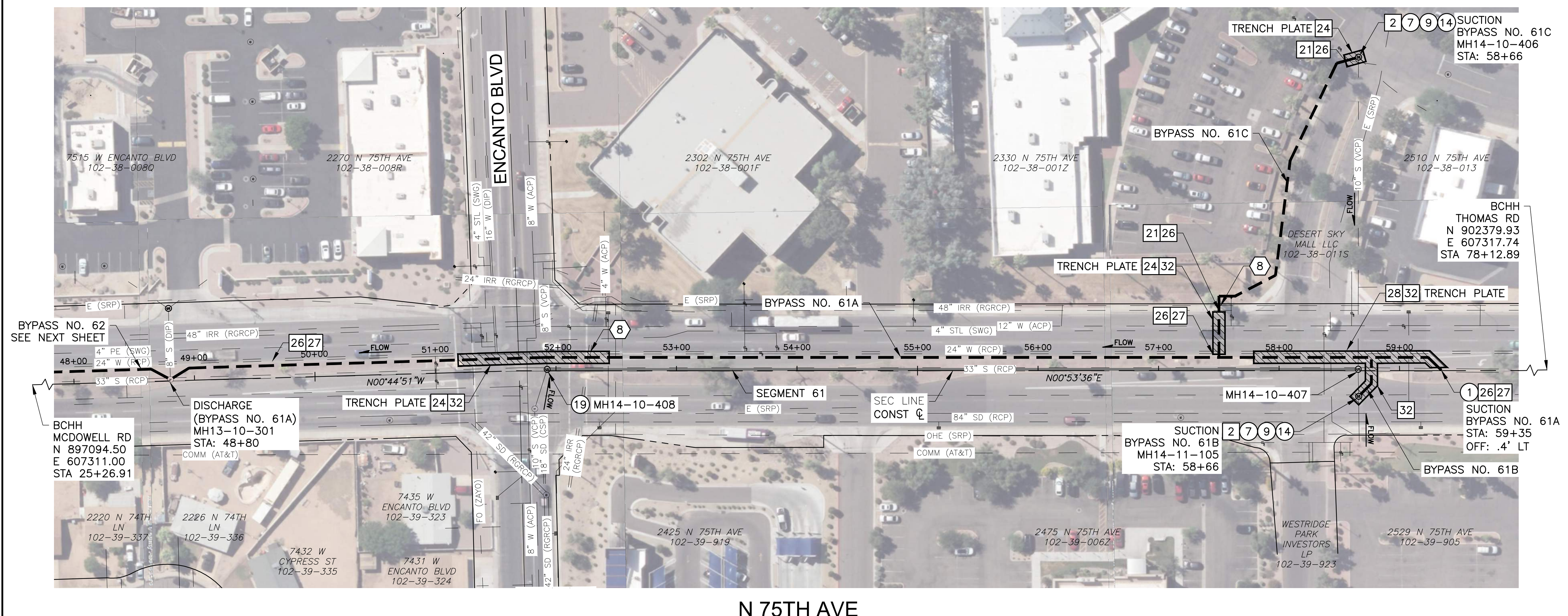
"PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW."
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PVC LINED CONCRETE SANITARY
SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

**CONCEPTUAL BYPASS PLAN
NO. 61A, 61B, 61C**

DR: FW	DES: KAD	CK: MJL	SHEET NO: 17	TOTAL SHEETS: 20
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024		
SCALE: 1"=100'				

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS



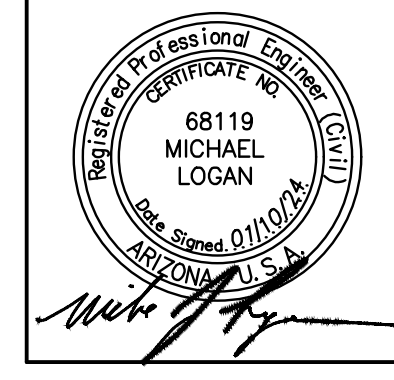
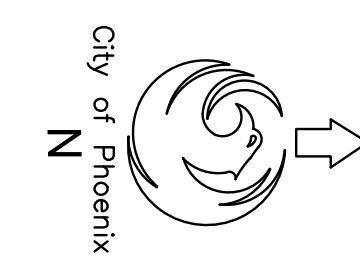
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

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REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

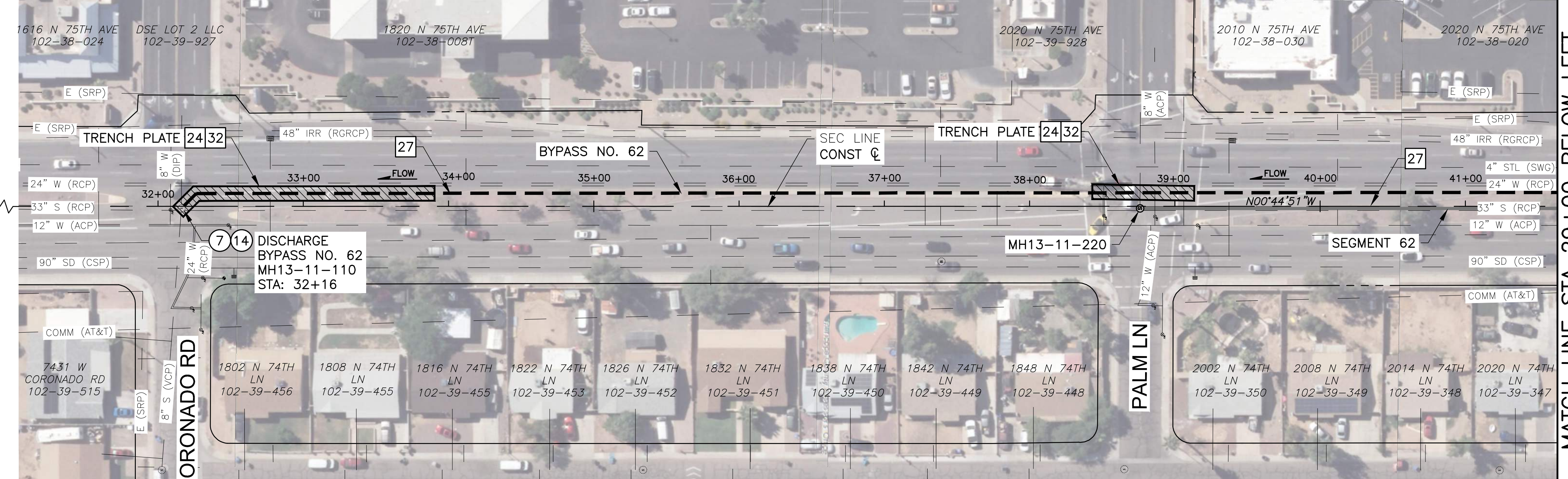
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	18	20	

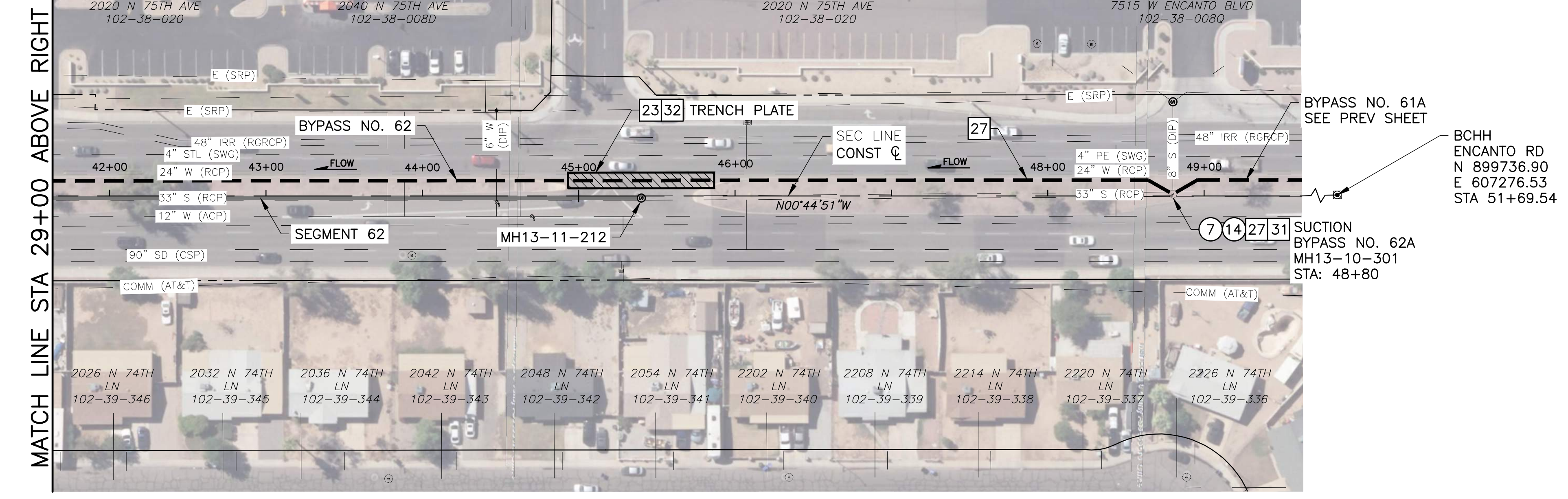
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DR: FW DES: KAD CK: MJL DATE: 01/2024



N 75TH AVE

MATCH LINE STA 29+00 BELOW LEFT



N 75TH AVE

MATCH LINE STA 29+00 ABOVE RIGHT

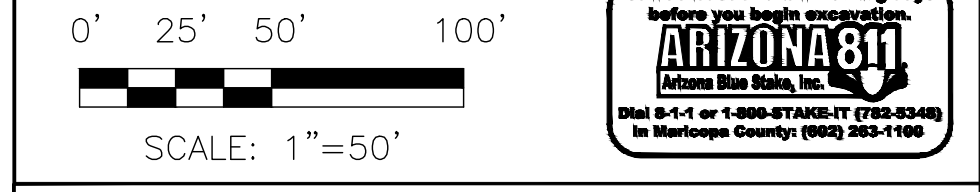
- REMOVAL NOTES**
- 23 REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE A 87 SY
 - 24 REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B 224 SY
 - 27 RESTORE LANDSCAPING 1 LS
 - 31 REMOVE MANHOLE CONE FOR BYPASS & REPLACE CONE DET B, SHT 12 1 EA
 - 32 CRACK SEAL & MICRO SEAL ASPHALT PER COP PAVEMENT CUT POLICY 4399 SY

- CONSTRUCTION NOTES**
- 7 EPOXY COAT MANHOLE CHANNEL & BENCH TECHNICAL SPECIFICATION 09710. 2 EA
 - 14 REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422 2 EA

REFERENCE NOTES

- NOTE:
- REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS.
 - UTILITIES ARE MAPPED USING CITY GIS - CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.
 - REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.

CONCEPTUAL ONLY
CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION



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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

CONCEPTUAL BYPASS PLAN
NO. 62

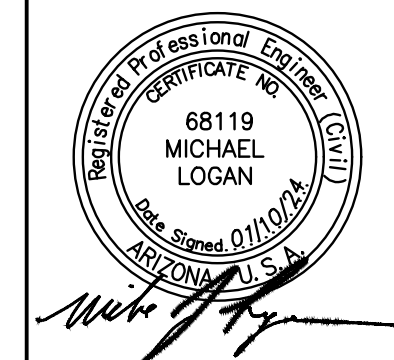
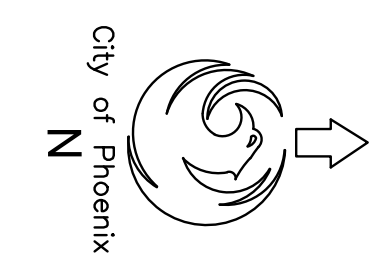
DR: FW	DES: KAD	CK: MJL	SHEET NO:	TOTAL SHEETS
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024	18	20

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

19-WS90500272BYP-02-V_12.dwg 01/10/24

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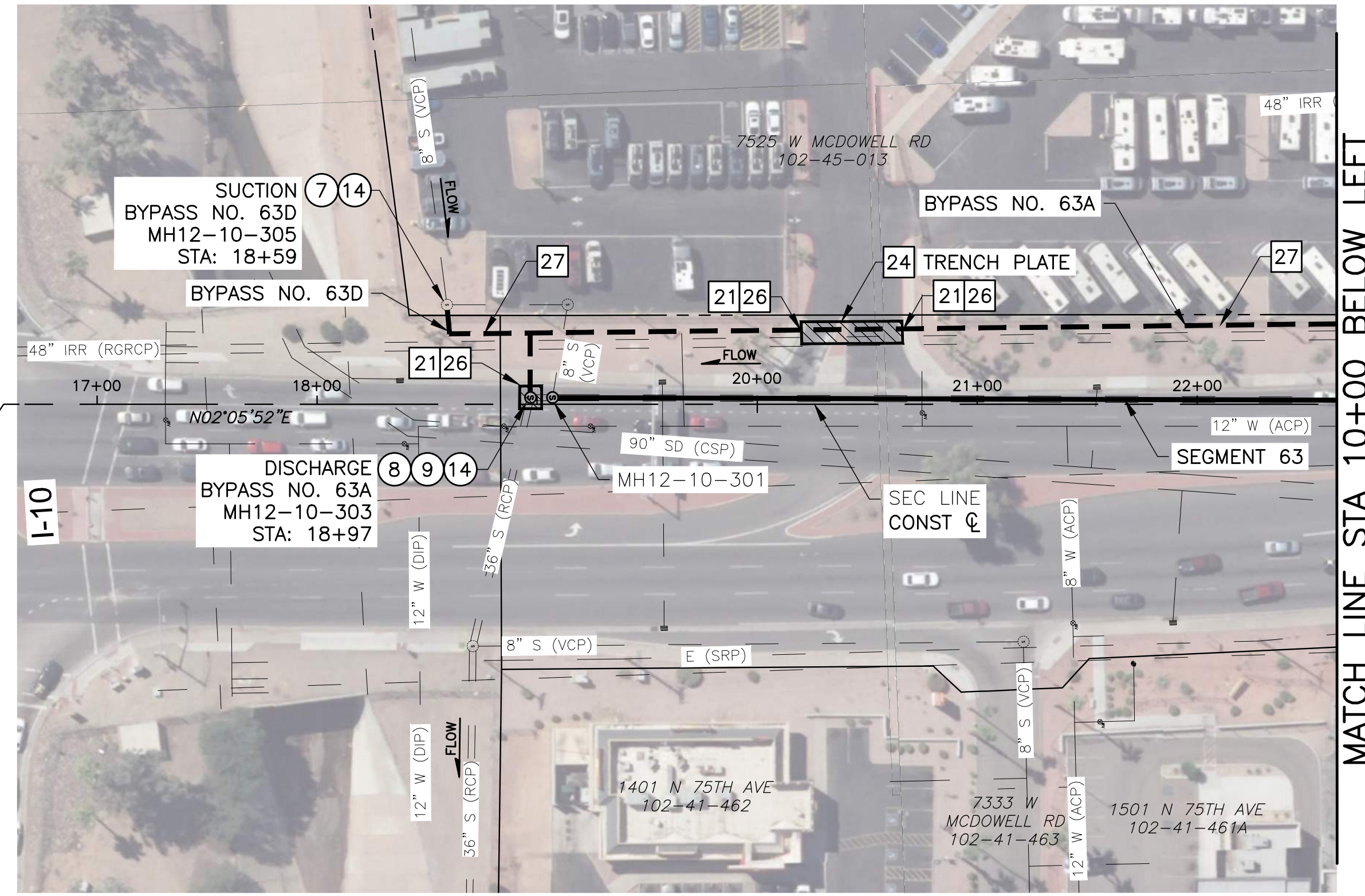
NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	19	20	

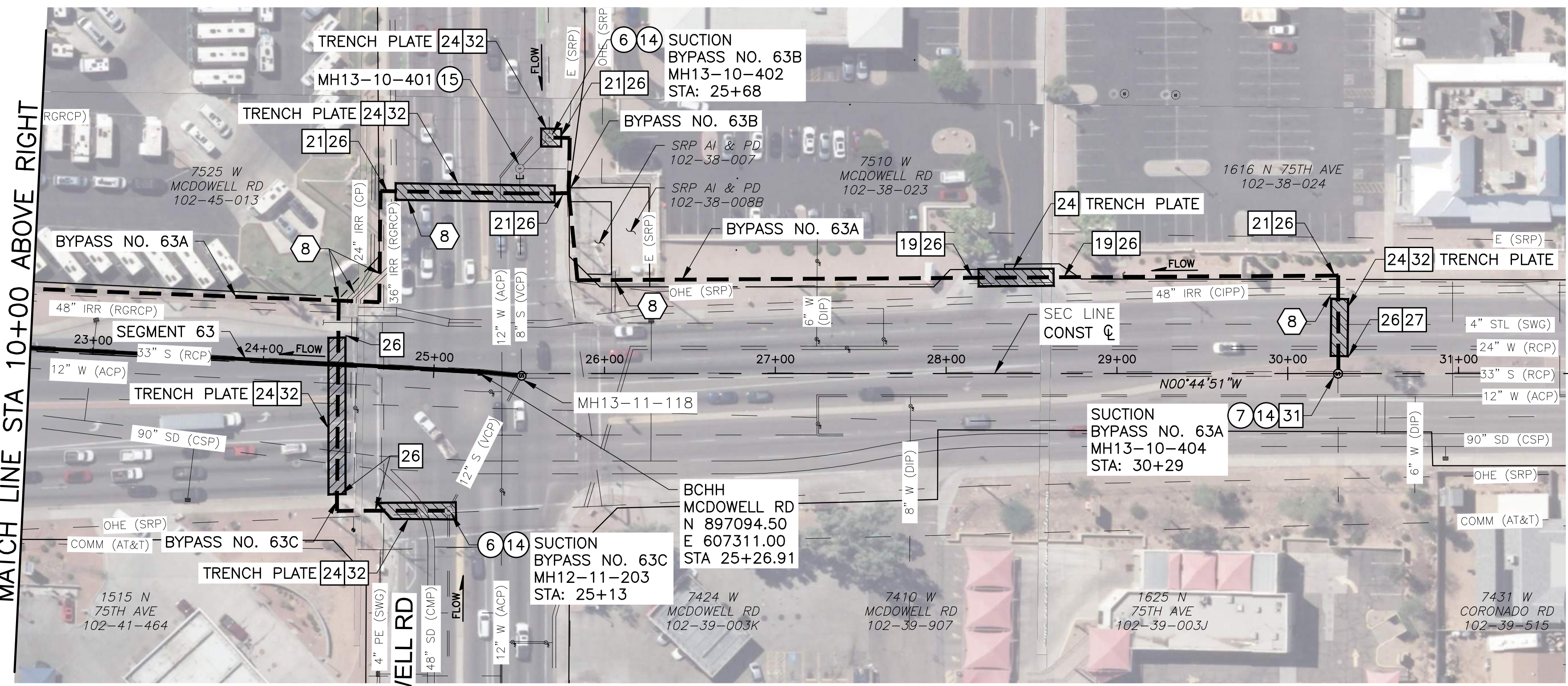
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DR: FW	DES: KAD	CK: MJL	DATE: 01/2024
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N 75TH AVE

MATCH LINE STA 10+00 BELOW LEFT



N 75TH AVE

MATCH LINE STA 10+00 ABOVE RIGHT

BCHH
ENCANTO RD
N 899736.90
E 607276.53
STA 51+69.54

CONCEPTUAL ONLY
CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION

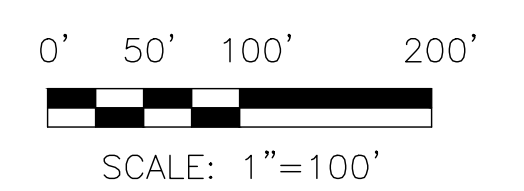
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

NO.	REMOVAL NOTES	AMOUNT
19	REMOVE & REPLACE CONCRETE SINGLE CURB RAMP TO NEAREST JOINT COP STD DET P1240-1	160 SF
21	REMOVE & REPLACE CONCRETE SIDEWALK MAG STD DET 230	550 SF
24	REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B	314 SY
26	REMOVE & REPLACE CONCRETE SINGLE CURB MAG STD DET 220-1, TYPE A	230 LF
27	RESTORE LANDSCAPING	1 EA
31	REMOVE MANHOLE CONE FOR BYPASS & REPLACE CONE DET B, SHT 12	1 EA
32	CRACK SEAL & MICRO SEAL ASPHALT PER COP PAVEMENT CUT POLICY	4176 SY

NO.	CONSTRUCTION NOTES	AMOUNT
6	EPOXY COAT MANHOLE CHANNEL, THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710.	2 EA
7	EPOXY COAT MANHOLE CHANNEL & BENCH TECHNICAL SPECIFICATION 09710.	2 EA
8	EPOXY COAT MANHOLE CHIMNEY TECHNICAL SPECIFICATION 09710.	1 EA
9	REPAIR MANHOLE PER TECHNICAL SPECIFICATION 09710. REFER TO TABLE 1, SHT 11	1 EA
14	REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422	5 EA
15	TEMPORARY PIPE PLUG	NPI

NO.	REFERENCE NOTES
8	SRP IRRIGATION CROSSING

- NOTE:
- REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS.
 - UTILITIES ARE MAPPED USING CITY GIS - CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.
 - REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.



SCALE: 1"=100'



"PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW." THIS DOCUMENT MUST BE KEPT SECURE AT ALL TIMES.

PVC LINED CONCRETE SANITARY SEWER REHABILITATION

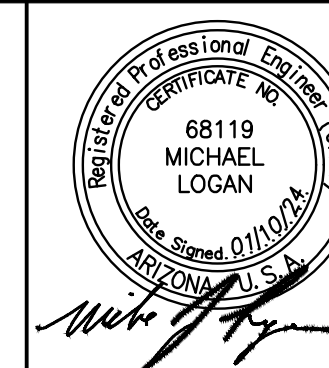
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

CONCEPTUAL BYPASS PLAN
NO. 63A, 63B, 63C & 63D

DR: FW	DES: KAD	CK: MJL	SHEET NO: 19	TOTAL SHEETS: 20
DATE: 01/2024	DATE: 01/2024	DATE: 01/2024		

SCALE: 1"=100'

20-WS90500272BYP-03-iv_12.dwg 01/10/24



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500272	20	20	

DIBBLE

DR: FW DES: KAD CK: MJL DATE: 01/2024

REMOVAL NOTES

- 30 ADOT CHANNEL ACCESS ROAD RESTORATION 1 LS
- 31 REMOVE MANHOLE CONE FOR BYPASS & REPLACE CONE DET B, SHT 12 1 EA

CONSTRUCTION NOTES

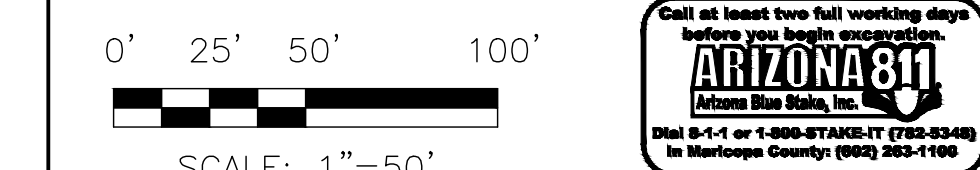
- 6 EPOXY COAT MANHOLE CHANNEL, THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710. 2 EA
- 14 REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422 2 EA
- 19 TEMPORARY FLOW THROUGH PLUG 1 EA

REFERENCE NOTES

- 7 COORDINATE ENTRY W/ADOT ENCROACHMENT PERMIT REQUIRED

- NOTE:
- REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS.
 - UTILITIES ARE MAPPED USING CITY GIS - CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.
 - REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.

CONCEPTUAL ONLY
CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION



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PVC LINED CONCRETE SANITARY SEWER REHABILITATION
CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

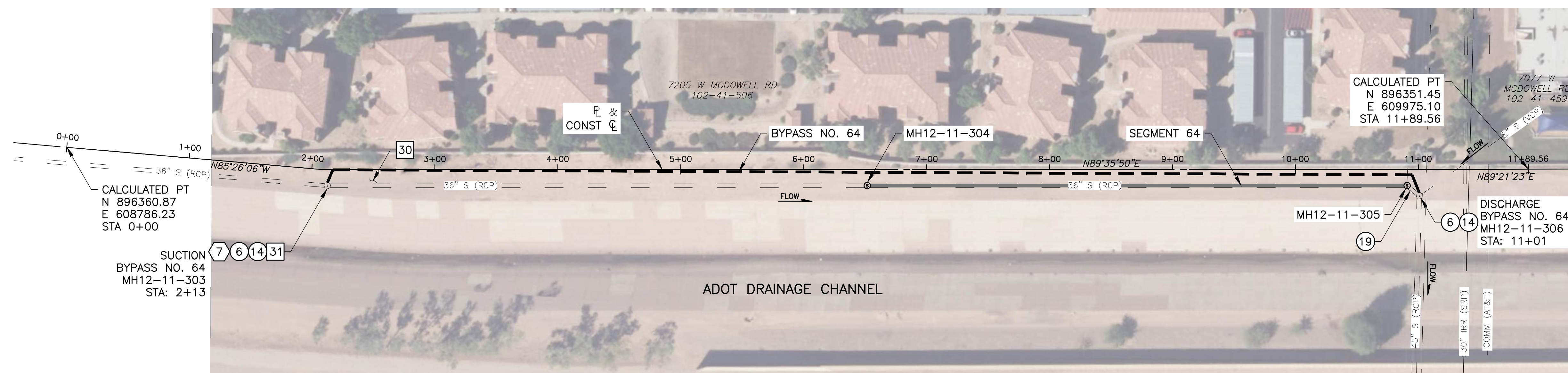
CONCEPTUAL BYPASS PLAN
NO. 64

DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS
FW	KAD	MJL	20	20

SCALE: 1"=80'

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



ADOT DRAINAGE CHANNEL / I-10

j:\2017\1017035_phx_pvc_lined_concrete_cms\CAD\iv-12-segment 60-66\21-WS90500272BYP-04-IV_12.dwg

21-WS90500272BYP-04-IV_12.dwg 01/10/24