F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	01	83

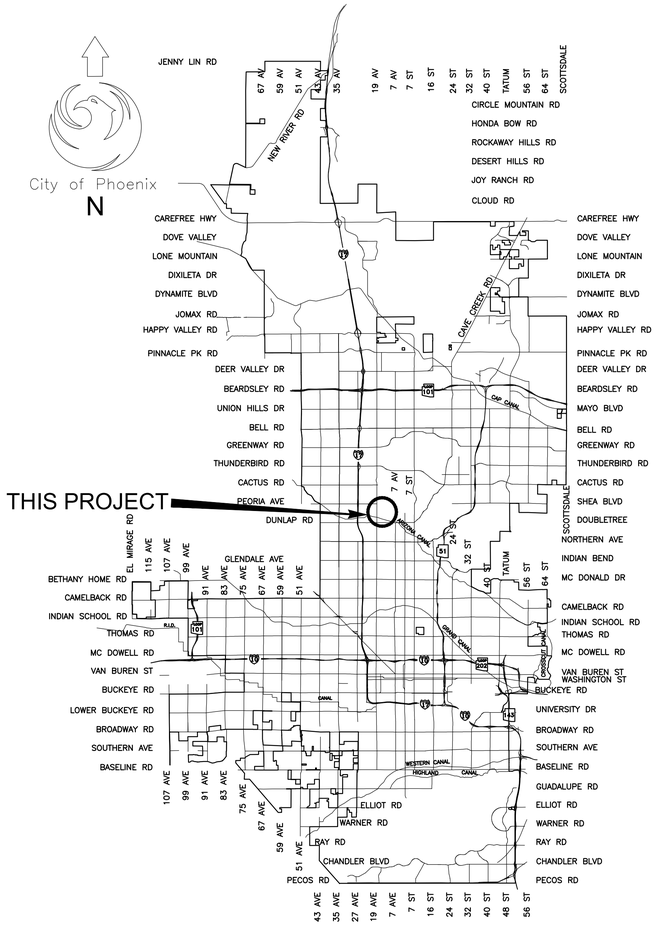
Registered Professional Engineer (Civil) CERTIFICATE NO. 64944 BRIAN M. WILCOX Date Signed 01/20/25 ARIZONA, U.S.A.

Entellus
3033 N. 44th Street Suite 250
Phoenix, AZ 85018
Tel 602.244.0266
Fax 602.244.8947
Website:Entellus.com
ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

CITY OF PHOENIX
WATER SERVICE DEPARTMENT
WATER MAIN REPLACEMENT
AREA BOUNDED BY
MOUNTAIN VIEW ROAD TO PEORIA AVENUE
AND 19TH AVENUE TO 15TH AVENUE
WS85509031 (WIFA)

2025



VICINITY MAP

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 GURDADO
DISTRICT NO 6.	KEVIN ROBINSON
DISTRICT NO 7.	CARLOS GALINDO-ELVIRA
DISTRICT NO 8.	KESHA HODGE WASHINGTON

INDEX OF SHEETS

1	COVER SHEET
2-3	NOTES AND LEGEND SHEETS
4	KEY MAP
5	ABANDONMENT INDEX
06-82	WATERLINE PLANS
83	WATERLINE DETAILS

BENCHMARKS:

▲ **19th Avenue & Peoria Avenue (Point #1330)**
City of Phoenix brass cap in hand hole.
Elevation = 1253.909 (NGVD-29 Datum)

▲ **15th Avenue & Dunlap Avenue South (Point #1362)**
City of Phoenix brass cap in hand hole.
Elevation = 1225.228 (NGVD-29 Datum)

▲ **7th Avenue & Peoria Avenue (Point #1383)**
City of Phoenix brass cap in hand hole at the southeast return, about 7-feet north of the bridge barrier.
Elevation = 1313.888 (NGVD-29 Datum)

▲ **15th Avenue & Peoria Avenue (Point #1368)**
City of Phoenix brass cap in hand hole.
Elevation = 1263.026 (NGVD-29 Datum)

▲ **15th Avenue & mountain View Road (Point #1367)**
City of Phoenix brass cap in hand hole.
Elevation = 1246.761 (NGVD-29 Datum)

APPROVED	CITY ENGINEER	10/31/2024 DATE
APPROVED	WATER SERVICES DEPARTMENT	10/31/2024 DATE
APPROVED	MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPT. DWR-24-00439	9/13/2024 DATE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" 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 _____ DATE _____

REGISTRATION NUMBER _____

Call at least two full working days before you begin excavation. ARIZONA 811 Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

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

WS85509031-1_CVR.dwg Jan 20, 2025

WS85509031 ABB: MOUNTAIN VIEW ROAD TO PEORIA AVENUE AND 19TH AVENUE TO 15TH AVENUE, QS 28-25

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

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 (S&RP) 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
- NEW WATER SERVICE AND WATER METER BOX
- EXISTING 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
- NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- 30" SD (RCP) 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
- P.I.P. PROTECT IN–PLACE
- 3" W TRANS EXISTING TRANSITE WATER LINE

WATER GENERAL NOTES

1. PER CITY OF PHOENIX ORDINANCE G–4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.
2. ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE UNIFORM STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AND THE PHOENIX SUPPLEMENTAL STANDARD DETAILS AND SPECIFICATIONS (NEWEST EDITION).
3. ADDITIONALLY, ALL FIRE HYDRANTS INSTALLED ON THIS PROJECT SHALL MEET THE REQUIREMENTS OF "THE PHOENIX FIRE CODE, ARTICLE 9, REVISED".
4. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
5. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT–OF–WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION.
6. 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.
7. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY TO THE BEST INFORMATION AVAILABLE.
8. EXISTING UTILITIES AND OTHER FACILITIES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM FIELD SURVEY, EXISTING MAPS, AS–BUILTS, AND OTHER PLANS WITHIN THE AREA OF THIS PROJECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND/OR ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND MAY AFFECT THE CONSTRUCTION.
9. TWO DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CALL "BLUE STAKE" AT 602–263–1100 FOR THE LOCATION AND IDENTIFICATION OF THE UNDERGROUND UTILITIES.
10. THE SEPARATION OF WATER AND SEWER MAINS SHALL CONFORM TO THE REQUIREMENTS OF MAG STANDARD DETAIL 404–1, AS MODIFIED IN THE WATER SERVICES DEPARTMENT, DESIGN STANDARDS MANUAL FOR WATER AND WASTEWATER SYSTEMS, CHAPTER 3.3.11.
11. ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE IN RIGHT–OF–WAY, UNLESS NOTED OTHERWISE.
12. ALL BURIED VALVES SHALL INCLUDE A VALVE BOX AND COVER UNLESS OTHERWISE NOTED. VALVE BOX AND COVER SHALL BE INSTALLED PER C.O.P. SUPPLEMENT TO MAG STANDARD DETAIL P–1391–1, TYPE A.
13. 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 UTILITY LOCATIONS INDICATED ON THESE PLANS ARE ACCURATE, COMPLETE, OR EXCLUSIVE. BIDDERS ARE ADVISED TO UNDERTAKE THEIR OWN INVESTIGATION OF EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL TEST PITS OR OTHER PRE–CONSTRUCTION INVESTIGATION OF UNDERGROUND UTILITIES OR STRUCTURE. PURSUANT TO ARIZ. REV. STAT. 40–360.21, THE CONTRACTOR MUST CONTACT "BLUE STAKE" AT (602) 263–1100 OR THE APPROPRIATE PUBLIC UTILITY FOR ASSISTANCE IN LOCATING UNDERGROUND FACILITIES, LINES, AND APPURTENANCES PRIOR TO CONSTRUCTION.
14. 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 AND SPECIFICATIONS FOR THIS PROJECT.
15. 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 AND 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.
16. THE WATERLINE PROFILE SHOWS ELEVATIONS AND SLOPES FOR THE NEW WATERLINE AND SPECIFIES A 3' MINIMUM COVER. MAJOR STREETS MUST HAVE A 4' MINIMUM COVER. IT IS THE DESIGN INTENT THAT THE NEW WATERLINES ARE INSTALLED WITH A 3 FOOT MINIMUM COVER (UNLESS OTHERWISE NOTED). THE ELEVATIONS AND SLOPES WERE ESTABLISHED IN AN EFFORT TO ACHIEVE THIS. CONTRACTOR SHALL INSTALL WATERLINES TO MEET THE GRADE ELEVATIONS AND SLOPES SPECIFIED OR AT A MINIMUM OF 3 FEET OF COVER, WHICHEVER IS DEEPER. THERE WILL BE NO ADDITIONAL PAYMENT FOR PLACING ANY WATERLINE DEEPER THAN 3 FEET OF COVER.
17. THERE ARE SOME WATERLINE ALIGNMENTS WHICH ARE CURVILINEAR. THE CONTRACTOR SHALL DEFLECT PIPE JOINTS PER MANUFACTURER'S RECOMMENDATIONS AND/OR PROVIDE FITTINGS IN ORDER TO PROVIDE A CONSISTENT OFFSET FROM THE MONUMENT LINE OF THE ROADWAY AS SHOWN ON THE PLANS.
18. ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE IN RIGHT–OF–WAY, UNLESS NOTED OTHERWISE.

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	02	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

NOTES AND LEGEND

WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	02	83
SCALE: N/A				

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

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\04_General\WS85509031–1_LN1.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	03	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/20/25
ARIZONA, U.S.A.

WATER SPECIAL NOTES

1. IN ACCORDANCE WITH AAC R18–4–213, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO THE NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 60 AND 61.

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

3. SLOPES AND INVERTS – ALL CONSTRUCTION SHALL FOLLOW SLOPES AND INVERTS AS SHOWN ON THE APPROVED PLAN. IF ANY DEVIATION FROM THE PLAN IS REQUIRED, THE CONTRACTOR MUST CONTACT THE ENGINEER TO DETERMINE ANY REVISIONS NEEDED PRIOR TO PROCEEDING.

4. AT THE BEGINNING OF EACH WORK DAY, THE CONTRACTOR MAY BRING TO THE JOB SITE ONLY THAT AMOUNT OF WATER PIPE THAT CAN REASONABLY BE EXPECTED TO BE INSTALLED THAT WORK DAY. AT THE END OF THE WORK DAY, ANY WATER PIPE ON THE JOB SITE NOT INSTALLED IN THE GROUND SHALL BE REMOVED. THE PIPE SHALL BE STORED OUTSIDE THE PROJECT LIMITS OR AT A LOCATION APPROVED BY THE ENGINEER.

   INCIDENTAL DAMAGE AND BREAKAGE OF THE PIPE DURING HANDLING SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND THE PIPE WILL BE REPLACED AT NO EXTRA COST TO THE CITY. THE UNUSABLE PORTIONS OF PIPE SHALL BE DISPOSED OF BY THE CONTRACTOR AT THEIR EXPENSE IN A SUITABLE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE CITY OF PHOENIX ORDINANCES, AND STATE AND E.P.A. GUIDELINES, IF ANY.

   THERE WILL BE NO ADDITIONAL PAYMENT MADE TO THE CONTRACTOR TO COMPLY WITH THIS SPECIAL PROVISION. ALL COSTS ASSOCIATED WITH THIS SPECIAL PROVISION ARE CONSIDERED INCIDENTAL AND ARE TO BE INCLUDED IN THE PRICE BID FOR FURNISHING AND INSTALLING WATER PIPE.

5. WATER MAINS – NEW 12–INCH AND SMALLER WATER MAINS SHALL BE DUCTILE IRON PIPE (DIP), 350 PSI PRESSURE CLASS.

6. RESTRAINED JOINTS – FOR 24 –INCH AND SMALLER DUCTILE IRON PIPE (DIP) – RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THE CITY OF PHOENIX SUPPLEMENT TO THE MAG SPECIFICATIONS, SECTION 750.2.

7. RESTRAINED JOINTS SHALL BE IN COMPLIANCE WITH MAG 303 OR GREATER AS NOTED IN PLANS FOR ALL TEES, DEAD ENDS, HORIZONTAL AND VERTICAL BENDS.

8. WATER VALVES – THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS ACCESS DURING CONSTRUCTION TO THE VALVE OPERATING NUT FOR ALL WATER VALVES WITHIN THE PROJECT BOUNDARIES. FAILURE BY THE CONTRACTOR TO DO SO RELIEVES THE WATER SERVICES DEPARTMENT OF RESPONSIBILITY FOR ANY RESULTANT CLAIMS.

9. INTERRUPTION OF TRANSMISSION WATER MAIN SERVICE – WATER MAINS 16–INCH AND LARGER (TRANSMISSION MAINS) ARE TO REMAIN IN CONTINUOUS SERVICE THROUGH ALL PHASES OF THE PROJECT.

10. DISTRIBUTION WATER MAIN SHUTDOWN (12" & SMALLER) – FOR SHUTDOWNS NECESSARY TO ACCOMPLISH APPROVED WORK, THE CONTRACTOR SHALL CONTACT THE PROJECT INSPECTOR EARLY IN THE PROJECT TO COORDINATE A SHUT DOWN WITH THE WSD, FIELD DISTRIBUTION AND COLLECTIONS CREW. 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 SHUTDOWN 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 FROM 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.

11. ALL EXISTING WATERLINES ARE TO REMAIN IN CONTINUOUS SERVICE DURING THE NEW WATERLINE CONSTRUCTION.

12. WATER SERVICES – THE CONTRACTOR SHALL REPLACE EXISTING WATER SERVICES AS INDICATED ON THE APPROVED PLANS WITH NEW SERVICE PIPE AND CURB STOP OF THE SAME SIZE FOR THE RELOCATED EXISTING WATER METERS.

13. 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.

14. COST OF RELOCATING EXISTING WATER METERS WITH BOX AND COVER SHALL BE INCLUDED IN THE COST OF THE SERVICE CONNECTION.

15. "SWING CONNECTIONS" – AFTER THE NEW WATERLINES ARE 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 (OFF – SETS, BENDS, ETC.) REQUIRED TO EFFECT A CONNECTION.

16. "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 WATER LINE.

17. THE WATERLINE CONTRACTOR SHALL ADJUST ALL WATER VALVE BOXES AND METER BOXES TO FINISHED GRADE AFTER THE FINAL PAVING WORK HAS BEEN COMPLETED.

18. REMOVAL AND REPLACEMENT OF EXISTING CONCRETE CURB & GUTTER, SIDEWALK, DRIVEWAY, AND VALLEY GUTTERS NECESSARY FOR WATERLINE CONSTRUCTION IS A NON – PAY ITEM.

19. CONTACT "BLUE STAKE" TO LOCATE INDIVIDUAL GAS SERVICES NOT SHOWN ON THE APPROVED PLANS.

20. ALL PIPES, FITTINGS, VALVES, FIRE HYDRANTS AND OTHER APPURTENANCES SHALL CONFORM TO CURRENT AWWA, ASTM, AND NSF STANDARDS. (EB 10, CHAP. 7, SECTION B).

21. ALL MATERIAL THAT COMES INTO CONTACT WITH WATER SHALL CONFORM TO ANSI/NSF STANDARD 61. (PER R18–4–213.B).

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 _____ **DATE** _____

REGISTRATION NUMBER _____

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

NOTES CONTINUED

WS85509031

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SCALE: N/A				

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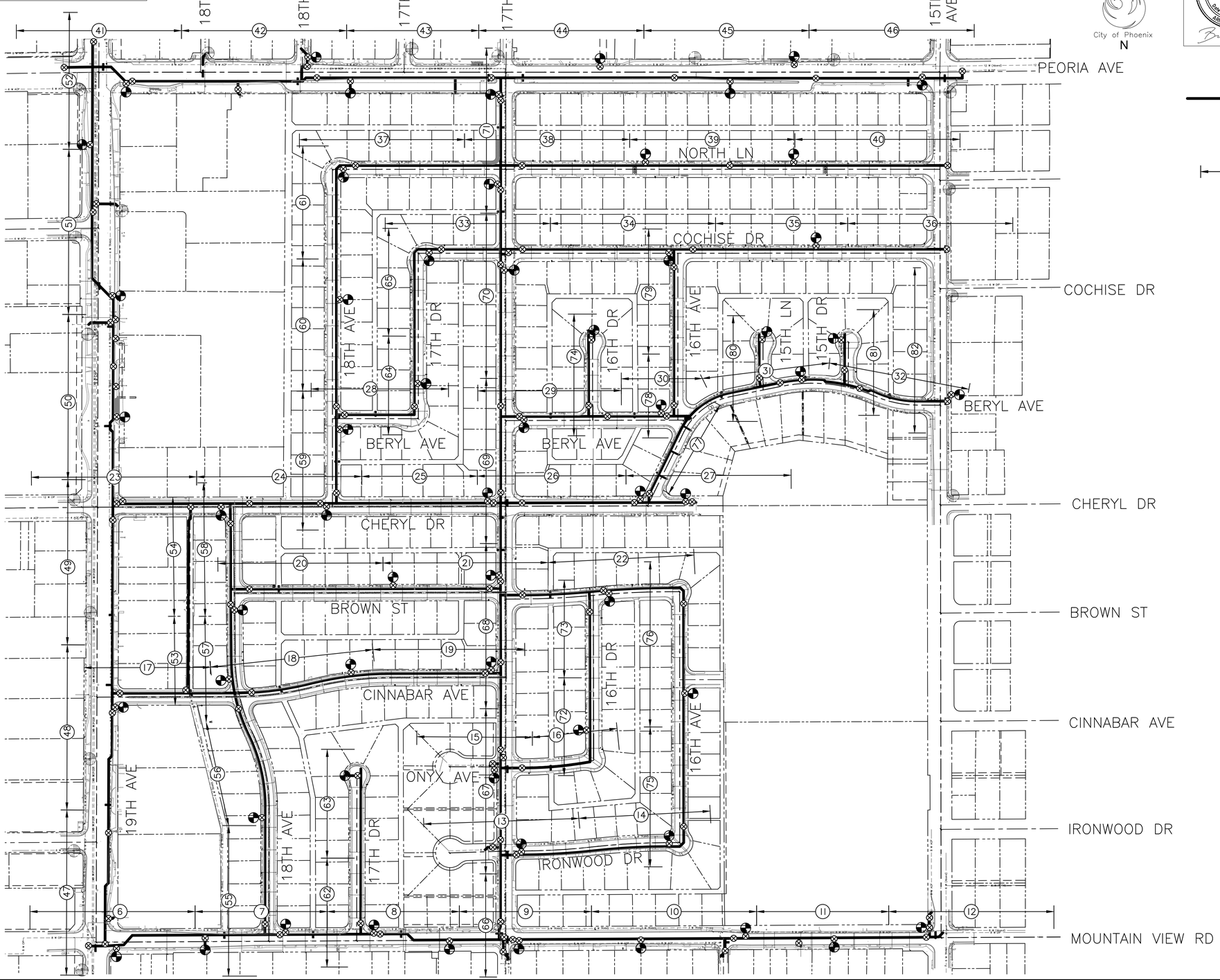
FILE: P:\100\115127a – wmr – mountain view & 15th ave\d_production\Cadd\04_General\WS85509031-1_LN2.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



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CERTIFICATE NO. 64944
BRIAN M. WILCOX
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ARIZONA, U.S.A.

LEGEND

- NEW DIP WATERLINE
- EXISTING FIRE HYDRANT TO REMAIN
- NEW FIRE HYDRANT
- WATER PLAN AND PROFILE SHEET REFERENCE NUMBER
- NEW WATER VALVE

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

KEY MAP
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	04	83

SCALE: N/A HORIZONTAL
N/A VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

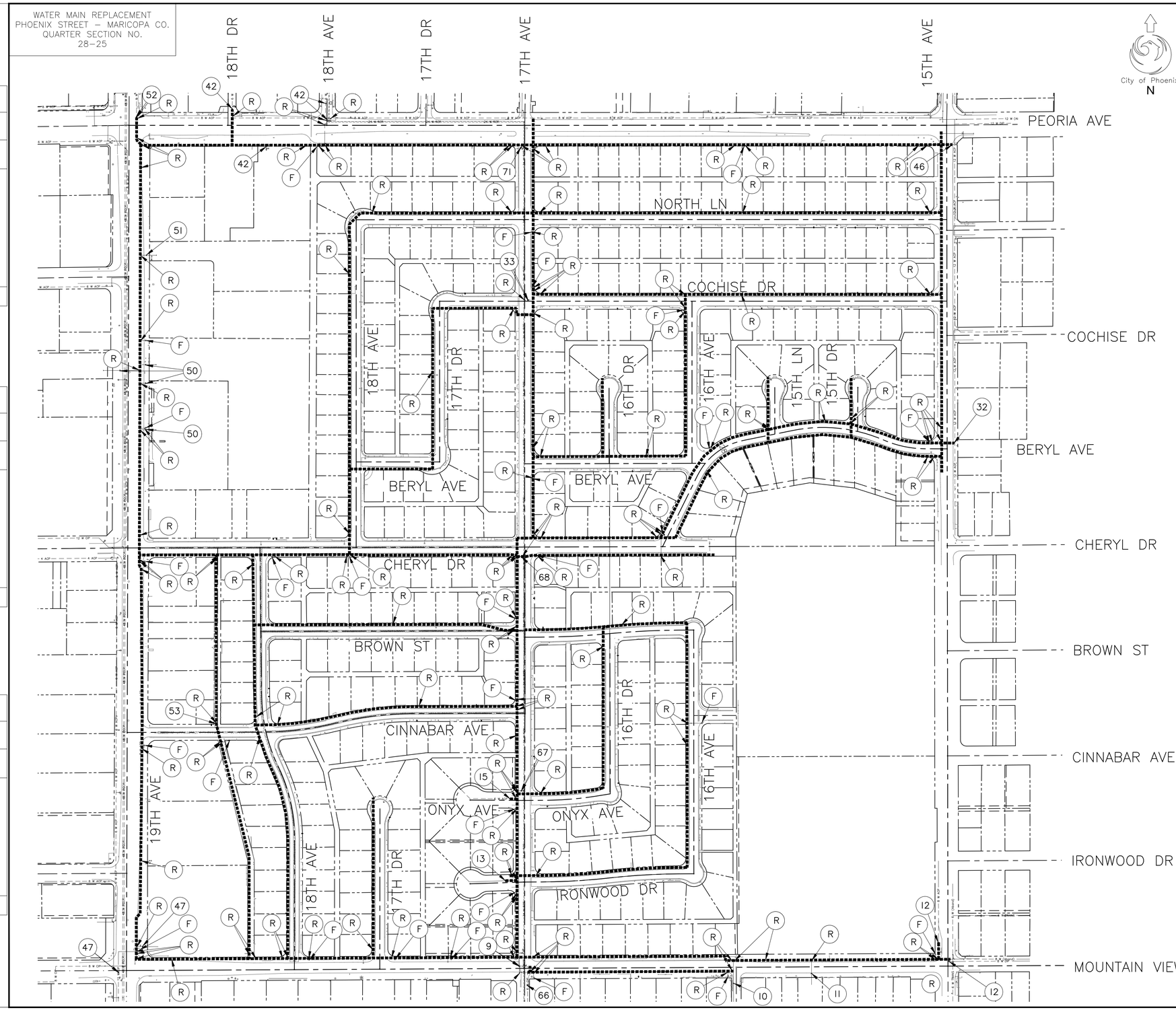
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\102\115127a – wmr – mountain view & 15th ave\a_production\Cadd\04_General\WS85509031-1_KM.dwg DATE: Jan 20 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	05	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

LEGEND

EXISTING WATERLINE TO BE ABANDONED

(F) FIRE HYDRANT REMOVAL – AFTER ACCEPTANCE OF THE NEW WATERLINE & NEW FIRE HYDRANTS, THE CONTRACTOR SHALL REMOVE, SALVAGE AND DELIVER TO THE CITY OF PHOENIX YARD, ALL EXISTING FIRE HYDRANT ASSEMBLIES AS INDICATED ON THE APPROVED PLANS (THIS INCLUDES BACKFILLING AND COMPACTING THE VOID WITH ABC AND INSTALLING A PLUG PER DETAIL ON SHEET ##).

(R) 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.

(64) SHEET NUMBER WHERE CUT, PLUG AND ABANDONMENT IS SHOWN

NOTE:
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AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" 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 **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

ABANDONMENT INDEX
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	05	83
SCALE: 1:100 N/A				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

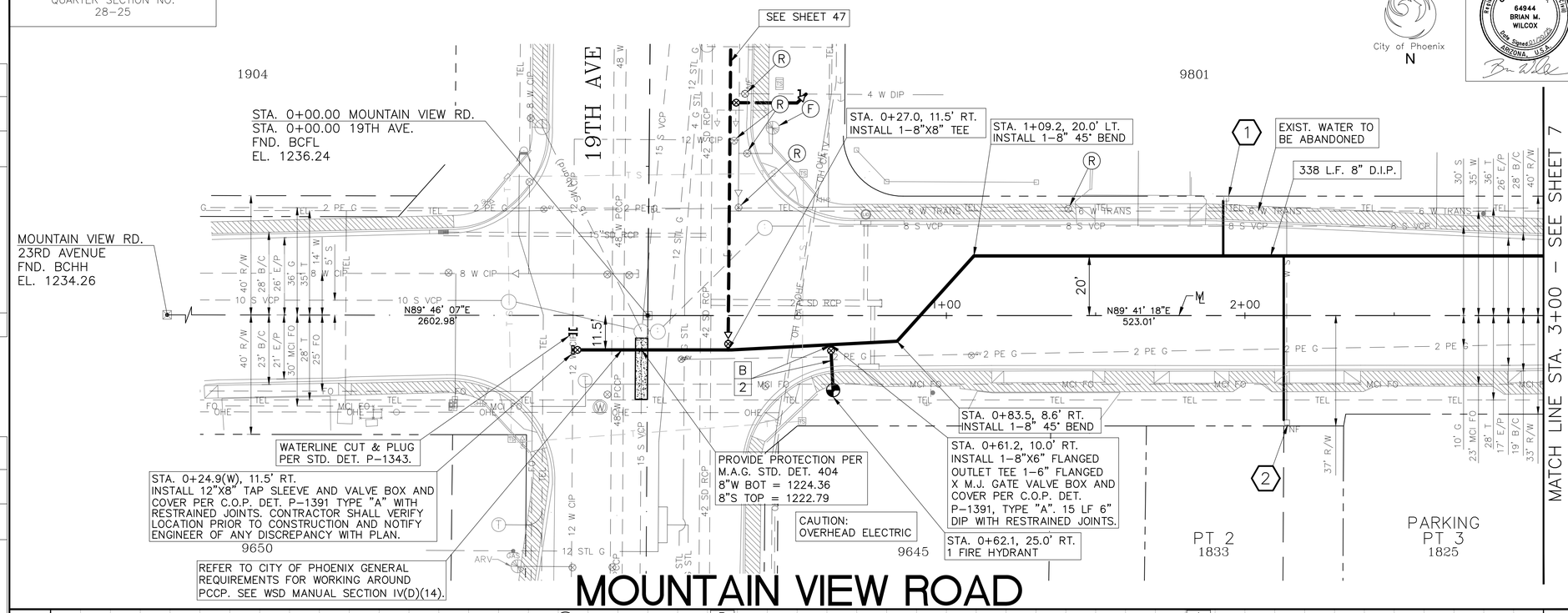
NO.	DESCRIPTION	REV BY	CKD BY	DATE

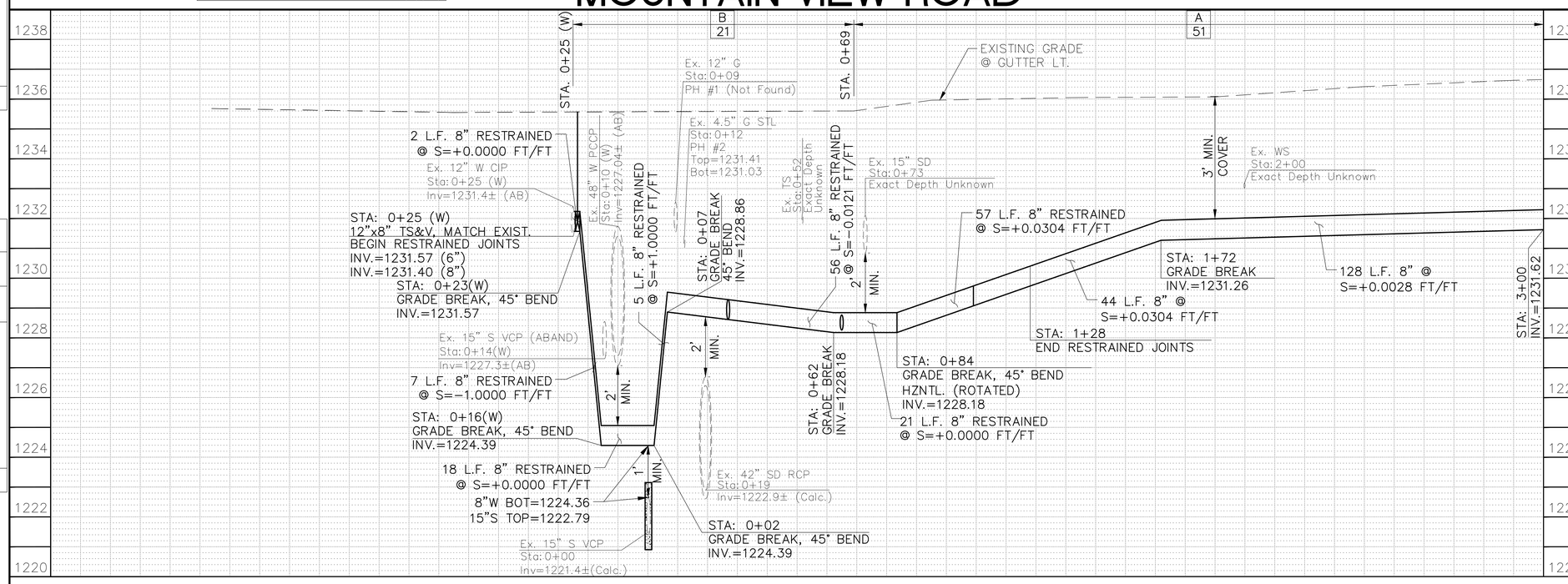
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\04_General\WS85509031-1_ABND.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	06	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	1+93	1"	21
2	2+02	1"	58

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MOUNTAIN VIEW ROAD
STA. 0+00 - STA. 3+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	06	83

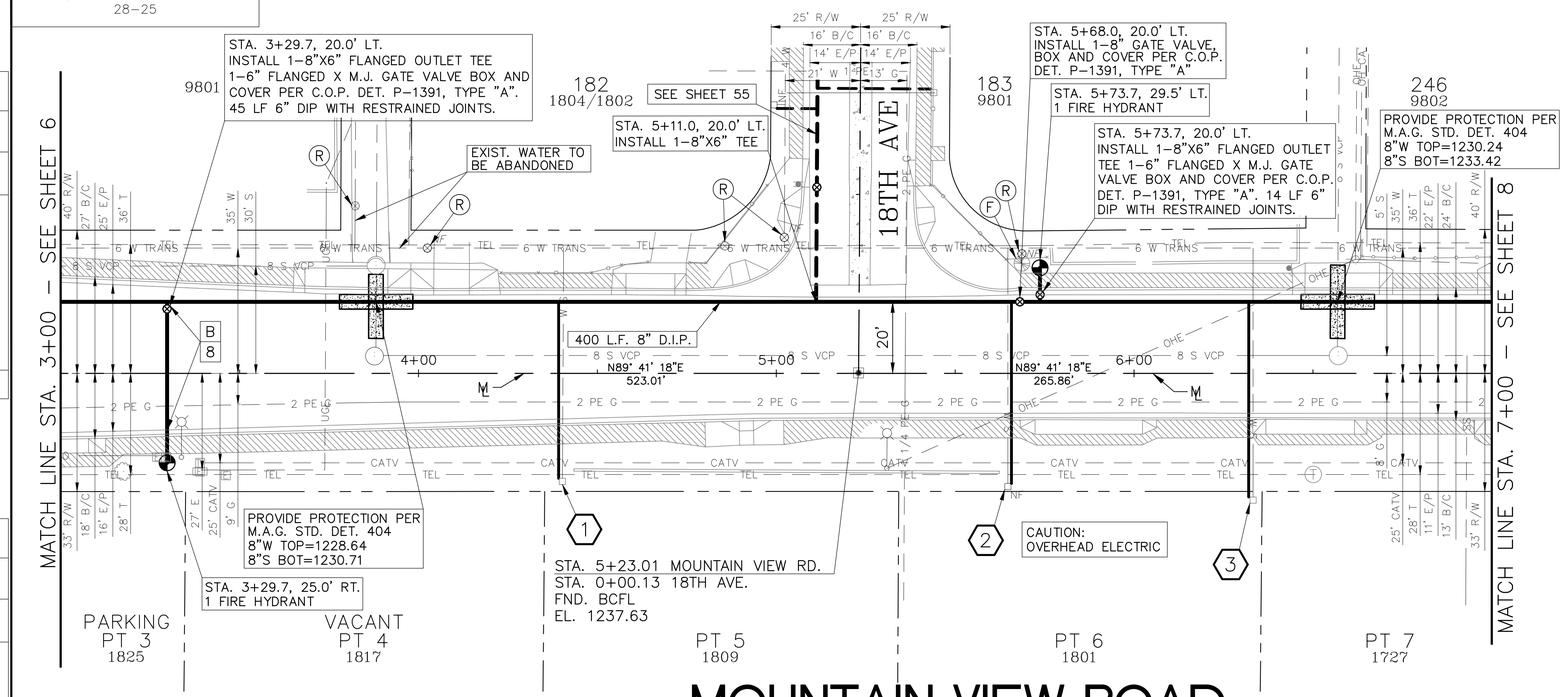
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

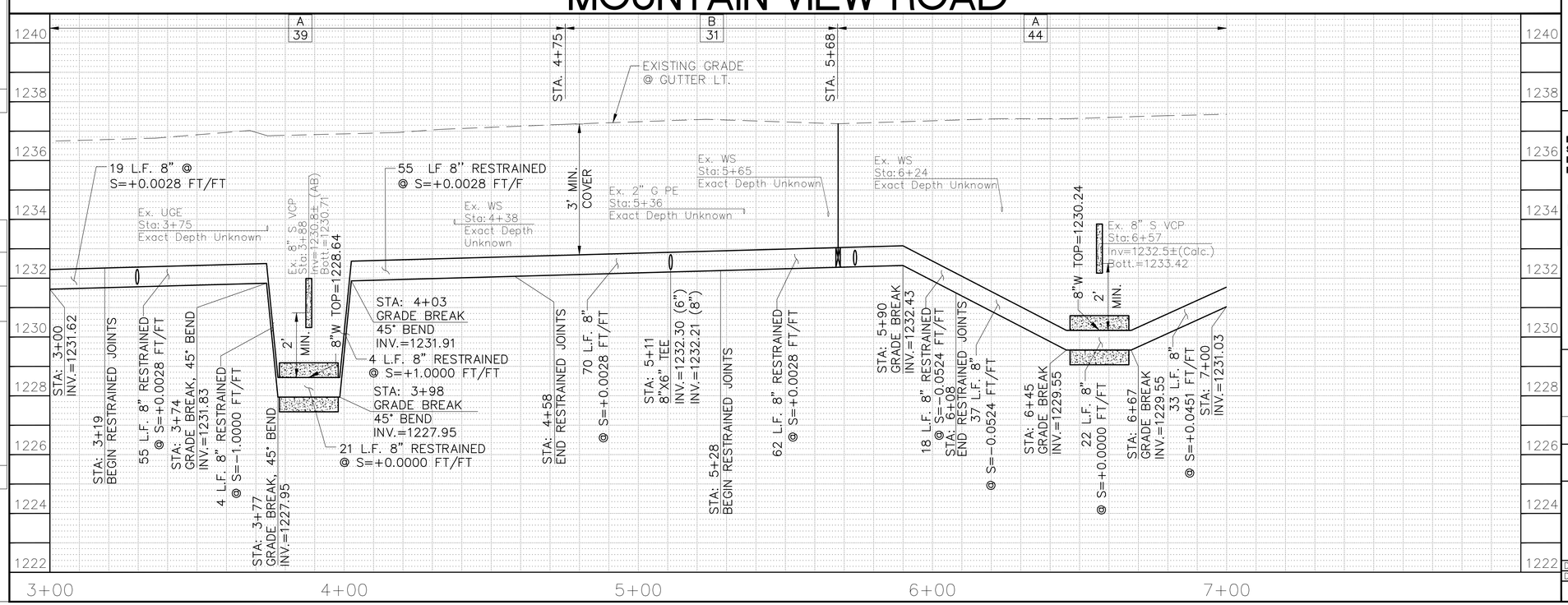
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_MOUNTAIN_VIEW_000-300.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	07	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	4+39	1"	52
2	5+66	1"	54
3	6+32	1"	57

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MOUNTAIN VIEW ROAD
STA. 3+00 - STA. 7+00

WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	07	83

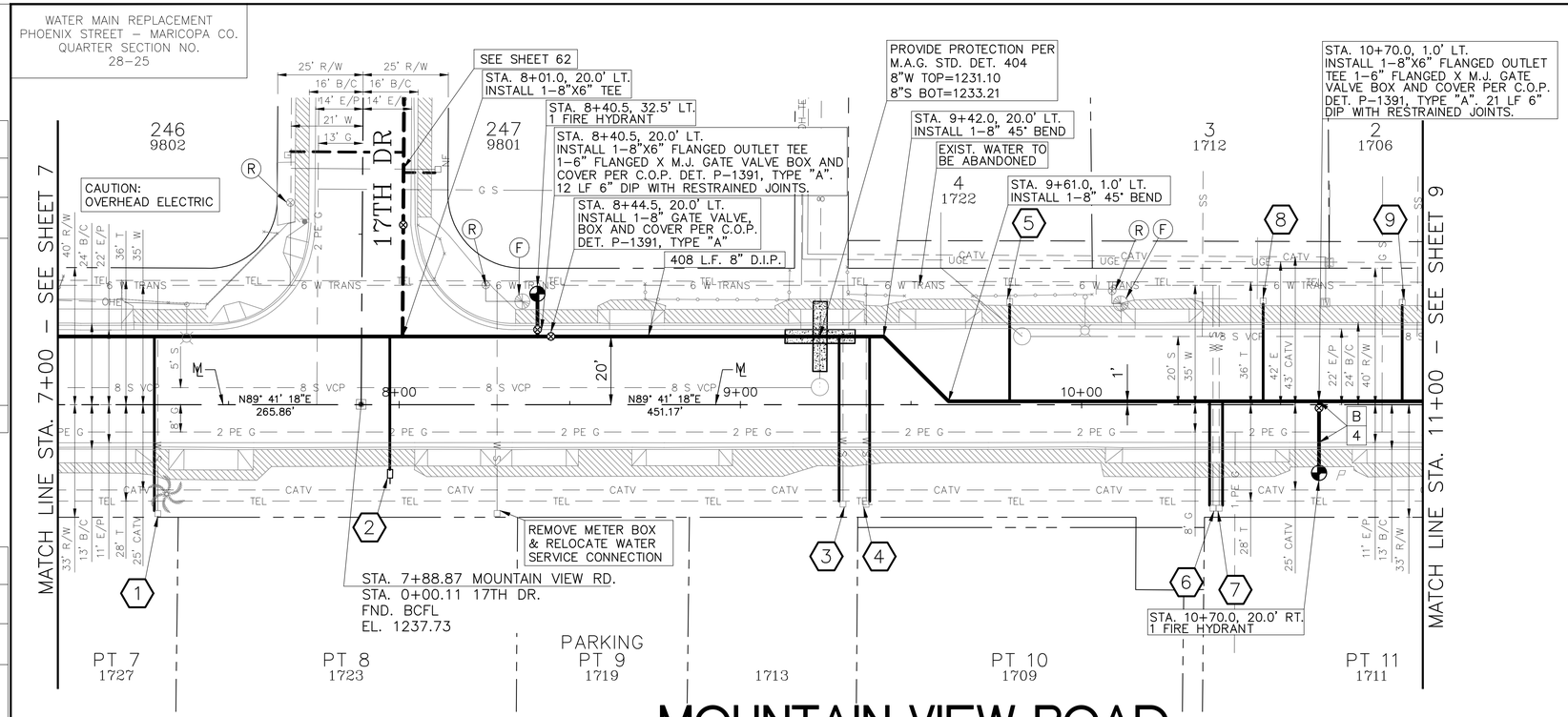
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

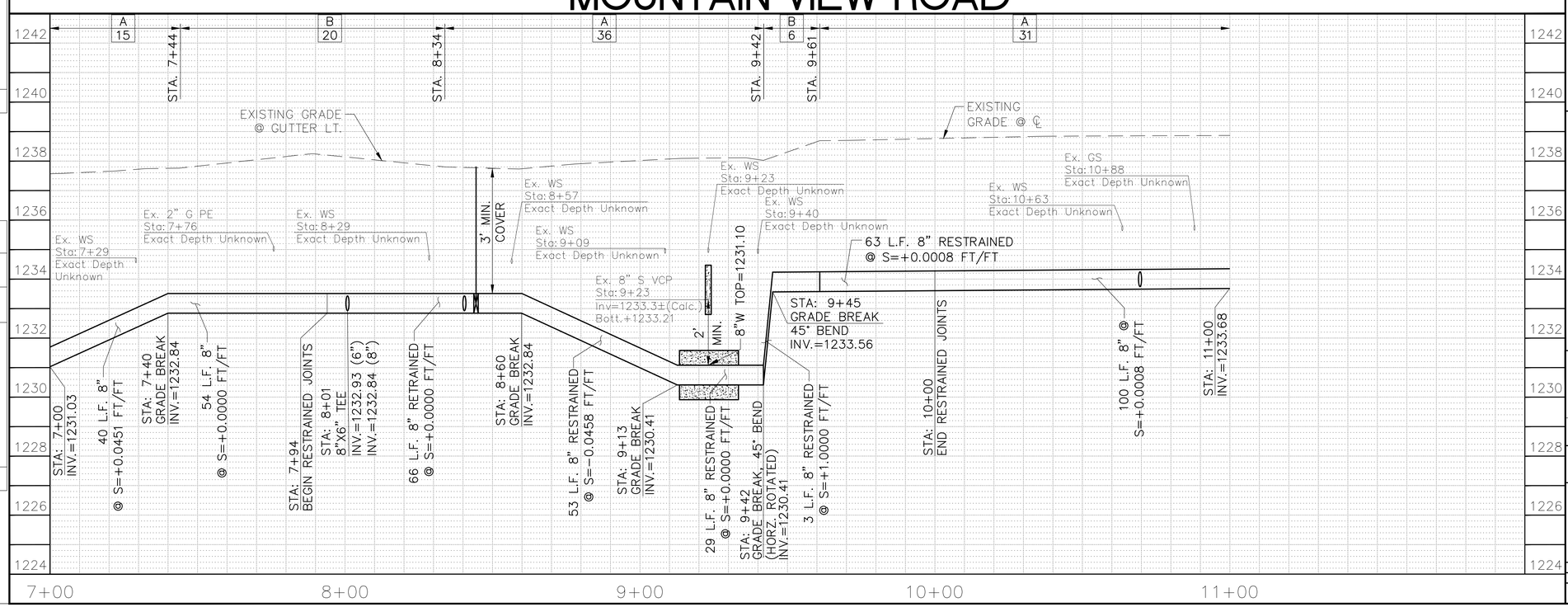
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177g – wmr – mountain view & 15th ave\da_production\Cadd\09_Water\WS85509031_MOUNTAIN VIEW_300-700.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	08	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	7+28	2"	54
2	7+97	1"	42
3	9+29	1"	51
4	9+38	1"	51
5	9+79	1.5"	31
6	10+37	1"	33
7	10+41	1"	33
8	10+53	1"	32
9	10+94	1"	31

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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MOUNTAIN VIEW ROAD
STA. 7+00 - STA. 11+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	08	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

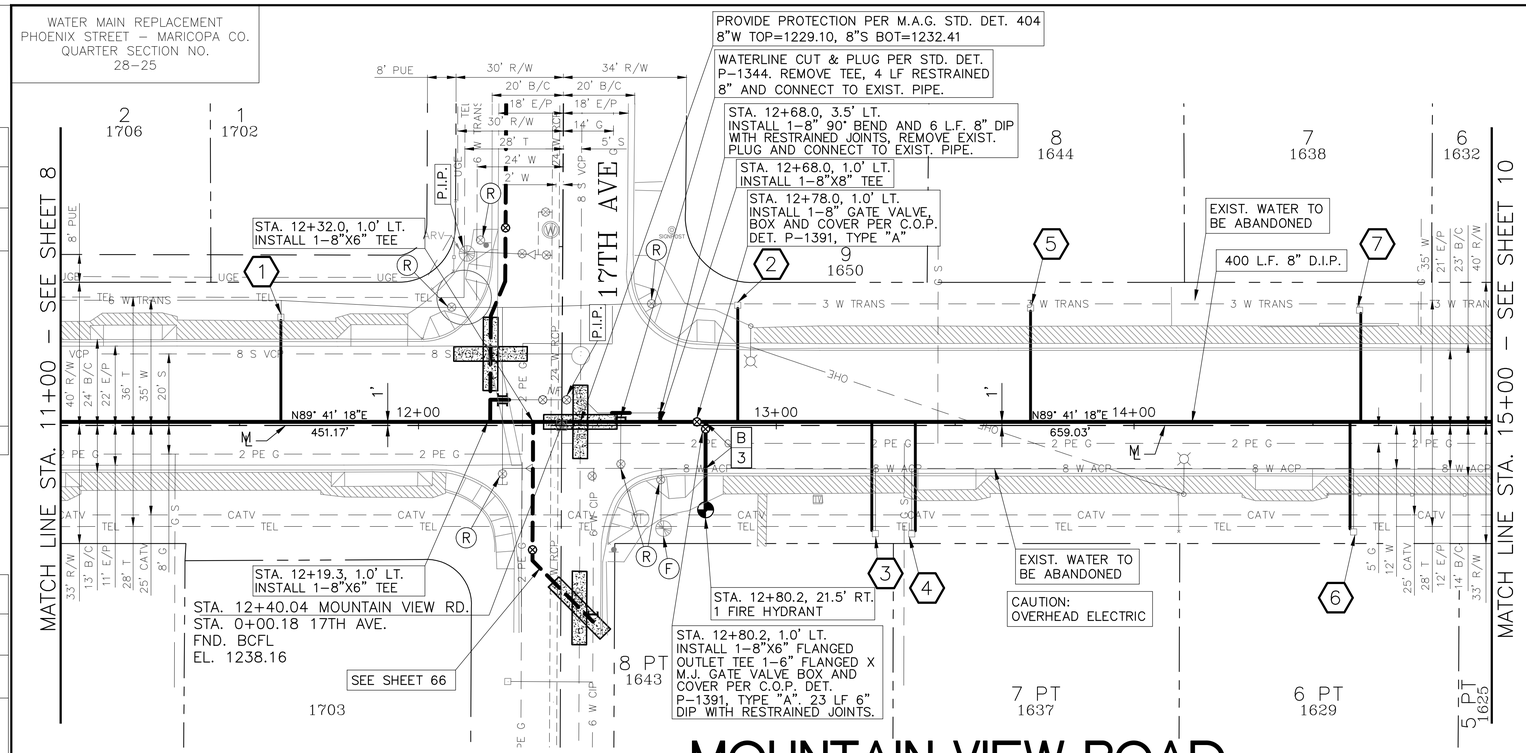
NO.	DESCRIPTION	REV BY	CKD BY	DATE

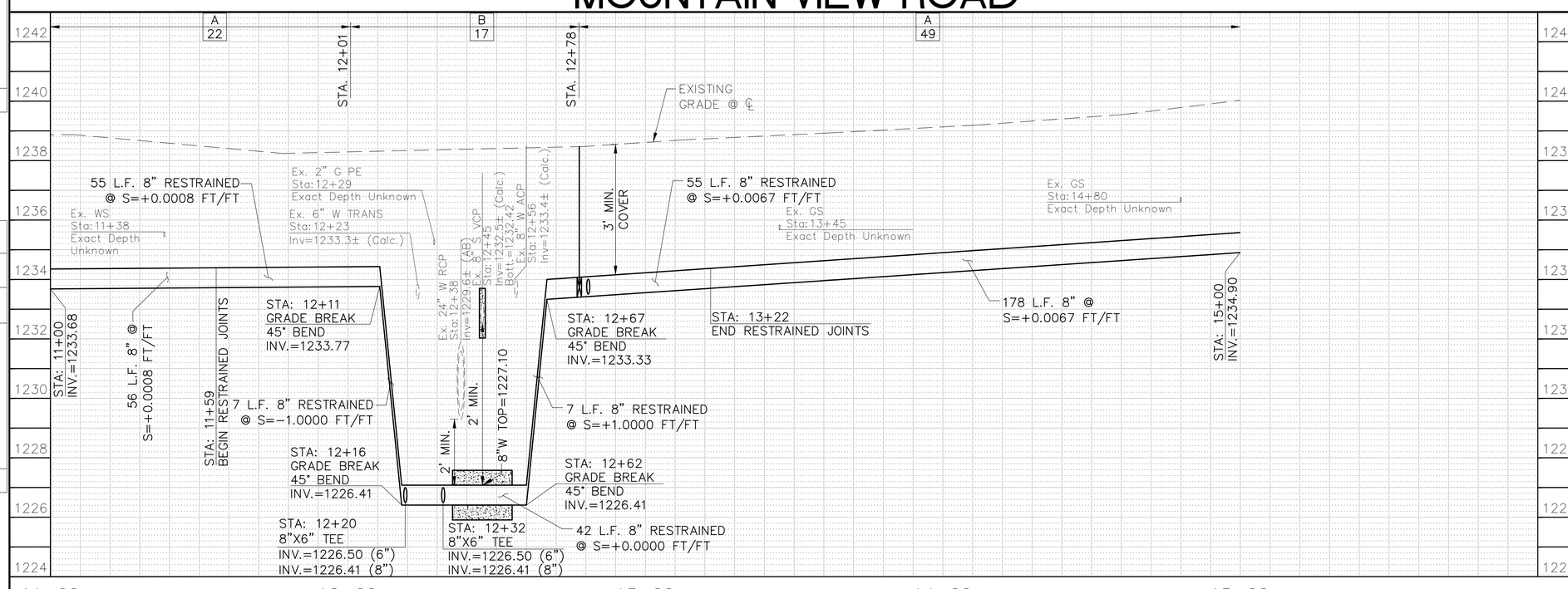
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177g – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_MOUNTAIN VIEW_700-1100.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





City of Phoenix
N

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/06/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	09	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	11+62	1"	31
2	12+89	1"	35
3	13+27	1"	33
4	13+39	1"	33
5	13+71	1"	34
6	14+60	1"	33
7	14+63	1"	33

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MOUNTAIN VIEW ROAD
STA. 11+00 - STA. 15+00

WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	09	83

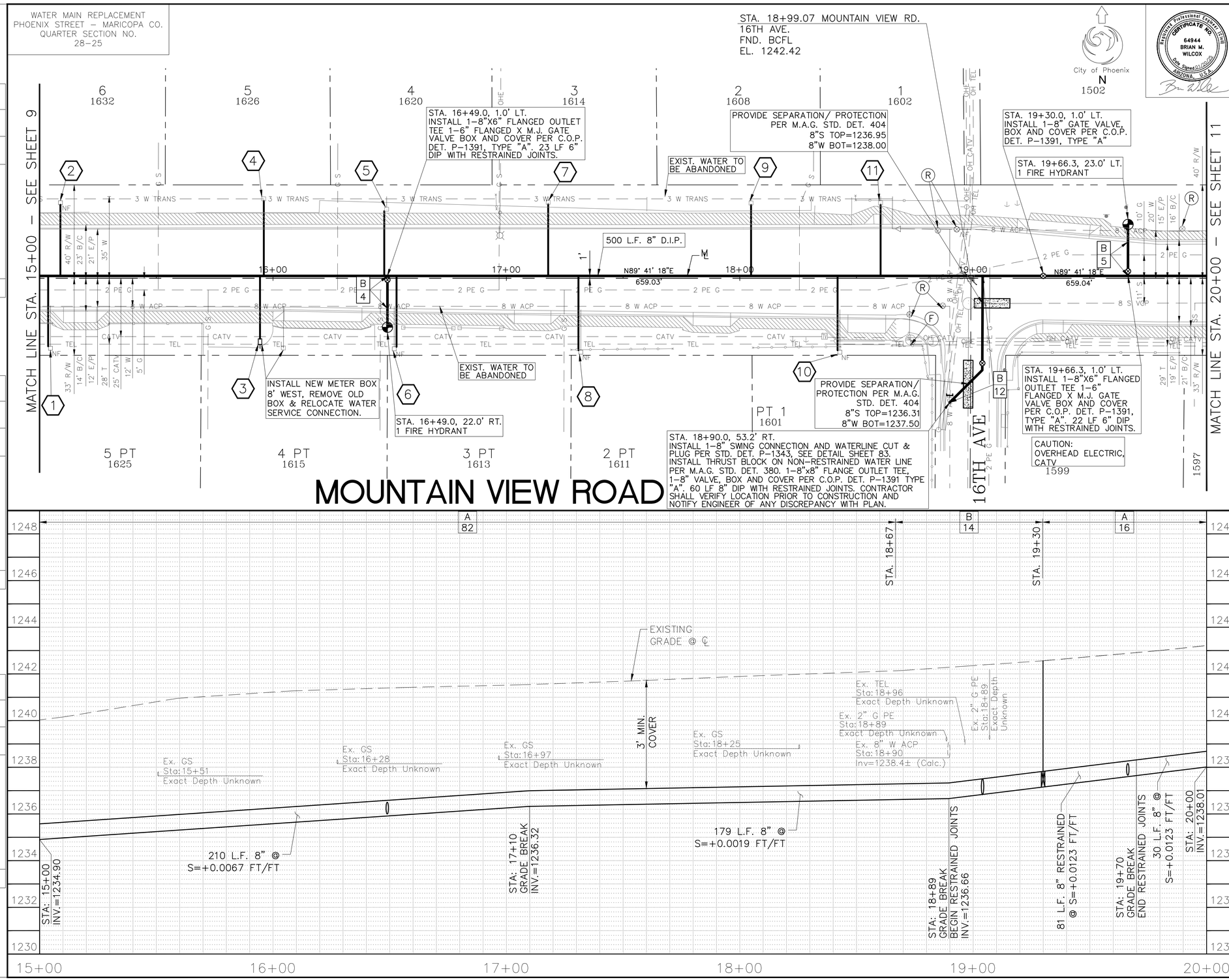
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_MOUNTAIN_VIEW_1100–1500.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	10	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	15+04	1"	33
2	15+09	1"	33
3	15+94	1"	30
4	15+96	1"	35
5	16+48	1"	31
6	16+52	1"	33
7	17+18	1"	34
8	17+31	1"	35
9	18+05	1"	33
10	18+42	1"	35
11	18+60	1"	33

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MOUNTAIN VIEW ROAD
STA. 15+00 - STA. 20+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	10	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_MOUNTAIN_VIEW_1500–2000.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	11	83

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CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

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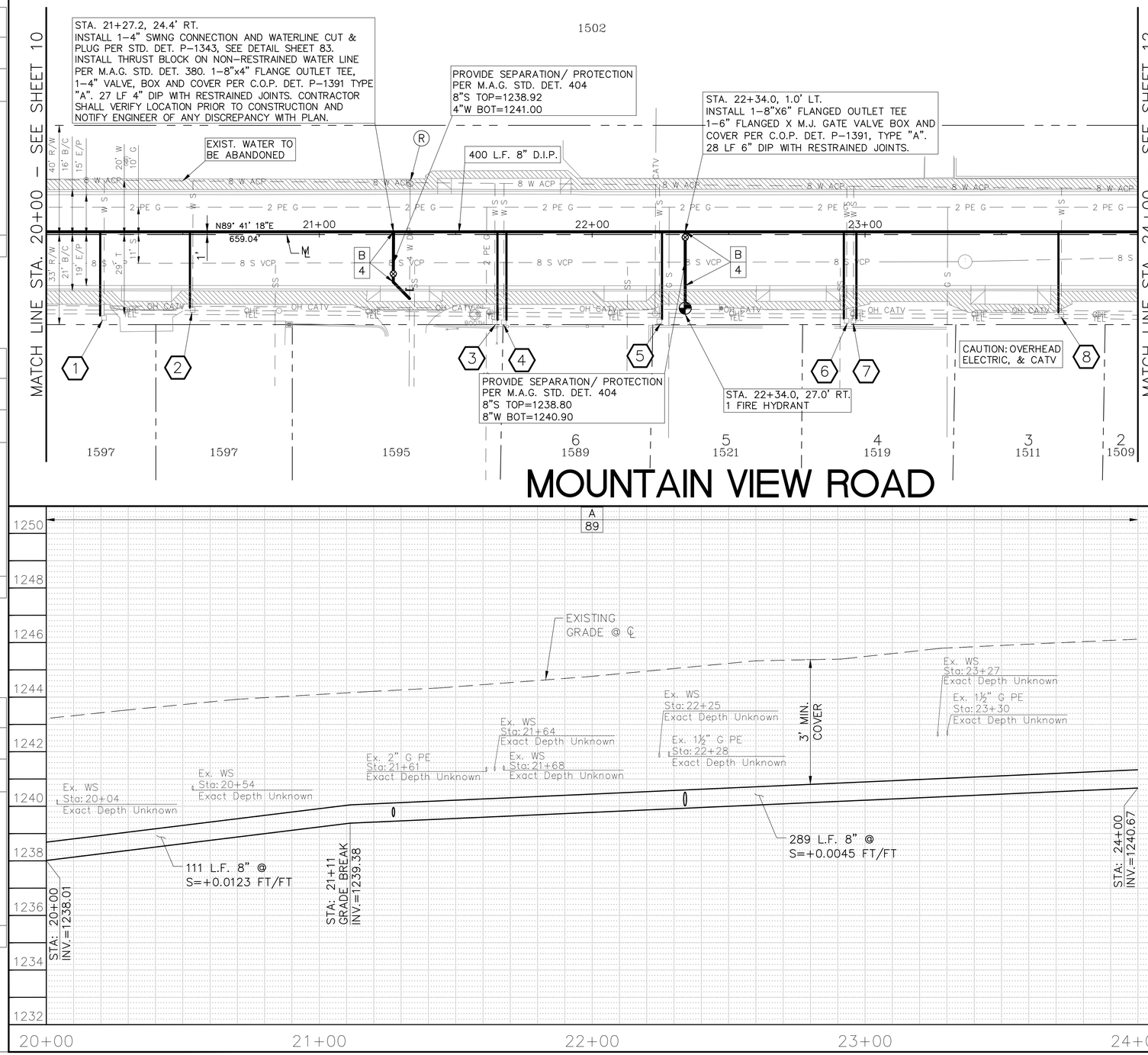
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/20/25
ARIZONA, U.S.A.



METER SERVICE CONNECTIONS STD DET P–1342

NO.	STATION	SIZE	LF
1	20+20	1"	34
2	20+53	1"	31
3	21+65	1"	35
4	21+69	1"	35
5	22+26	1"	35
6	22+92	1"	35
7	22+97	1"	35
8	23+71	1"	33

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MOUNTAIN VIEW ROAD
STA. 20+00 - STA. 24+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	11	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_MOUNTAIN_VIEW_2000-2400.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

STA. 25+23.2, 30.7' LT.
INSTALL 1–8"X6" FLANGED OUTLET TEE 1–6" FLANGED X M.J. GATE VALVE BOX AND COVER PER C.O.P. DET. P–1391, TYPE "A". 5 LF 6" DIP WITH RESTRAINED JOINTS.

STA. 25+29.0, 76.5' LT.
INSTALL 1–8" SWING CONNECTION, 1–8" 45° BEND, AND WATERLINE CUT & PLUG PER STD. DET. P–1343, SEE DETAIL SHEET 83. INSTALL THRUST BLOCK ON NON–RESTRAINED WATER LINE PER M.A.G. STD. DET. 380.
STA. 25+23.2, 68.6' LT 1–8" VALVE, BOX AND COVER PER C.O.P. DET. P–1391 TYPE "A" AND WATERLINE CUT & PLUG PER STD. DET. P–1343. 78 LF 8" DIP WITH RESTRAINED JOINTS. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

STA. 25+63.5, 14.5' LT.
INSTALL 1–8" SWING CONNECTION, 1–8" 45° BEND, AND WATERLINE CUT & PLUG PER STD. DET. P–1343, SEE DETAIL SHEET 83. INSTALL THRUST BLOCK ON NON–RESTRAINED WATER LINE PER M.A.G. STD. DET. 380. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

STA. 25+17.9, 30.7' LT.
1 FIRE HYDRANT

STA. 25+13.0, 1.5' LT.
INSTALL 1–8" GATE VALVE, BOX AND COVER PER C.O.P. DET. P–1391, TYPE "A"

DEFLECT PIPE JOINTS TO MAINTAIN A UNIFORM OFFSET FROM ℳ

PT
STA.24+85.0, 1.0' LT

EXIST. WATER TO BE ABANDONED
169 L.F. 8" D.I.P.

PROVIDE PROTECTION PER M.A.G. STD. DET. 404
8"W TOP=1239.67
8"S BOT=1241.67

CAUTION: OVERHEAD ELECTRIC, & CATV

STA. 25+51.1, 2.2' LT.
INSTALL 1–8" 45° BEND

STA. 25+58.11 MOUNTAIN VIEW DR.
15TH AVE.
FND. BCHH
EL. 1246.76

MATCH LINE STA. 24+00 – SEE SHEET 11

VACANT PARKING 2

PT 1
1501

1502

15TH AVE

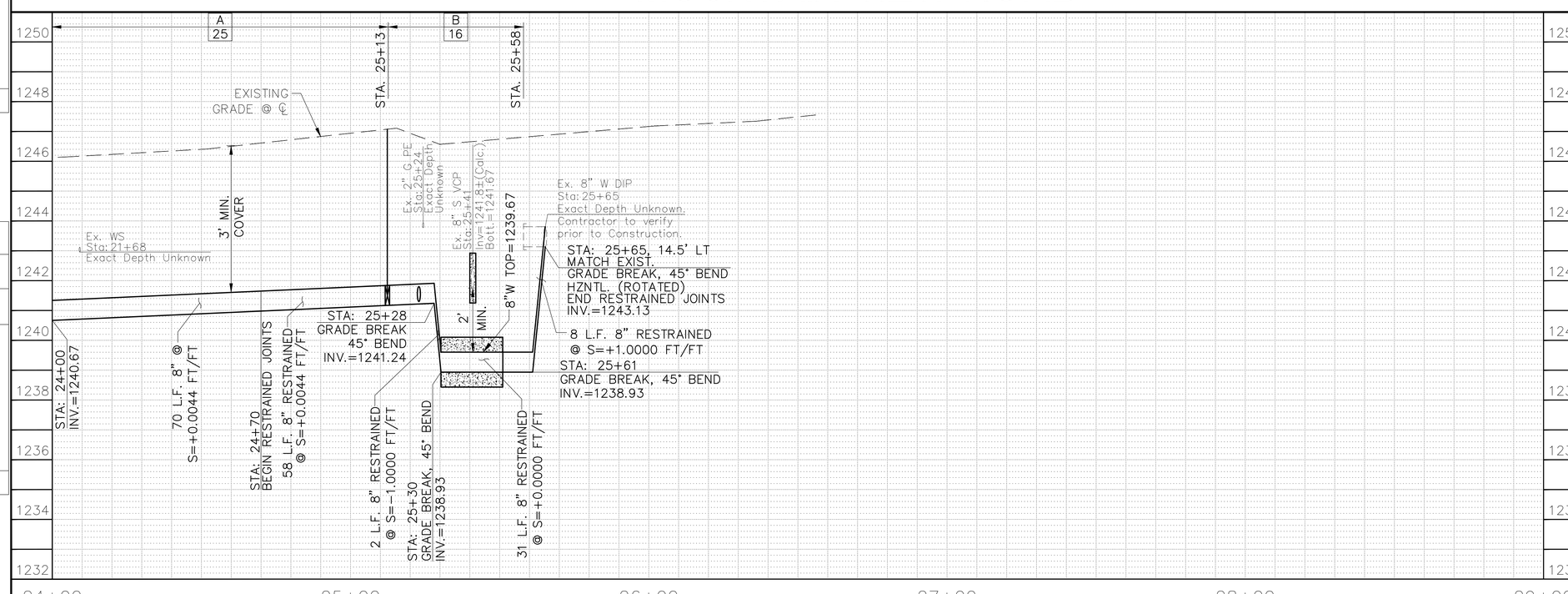
PT 64
1424

66
1418

1425

MOUNTAIN VIEW ROAD

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	12	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	24+08	1"	35
2	24+60	1"	39

NOTE:
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NOTE:
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AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MOUNTAIN VIEW ROAD
STA. 24+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	12	83

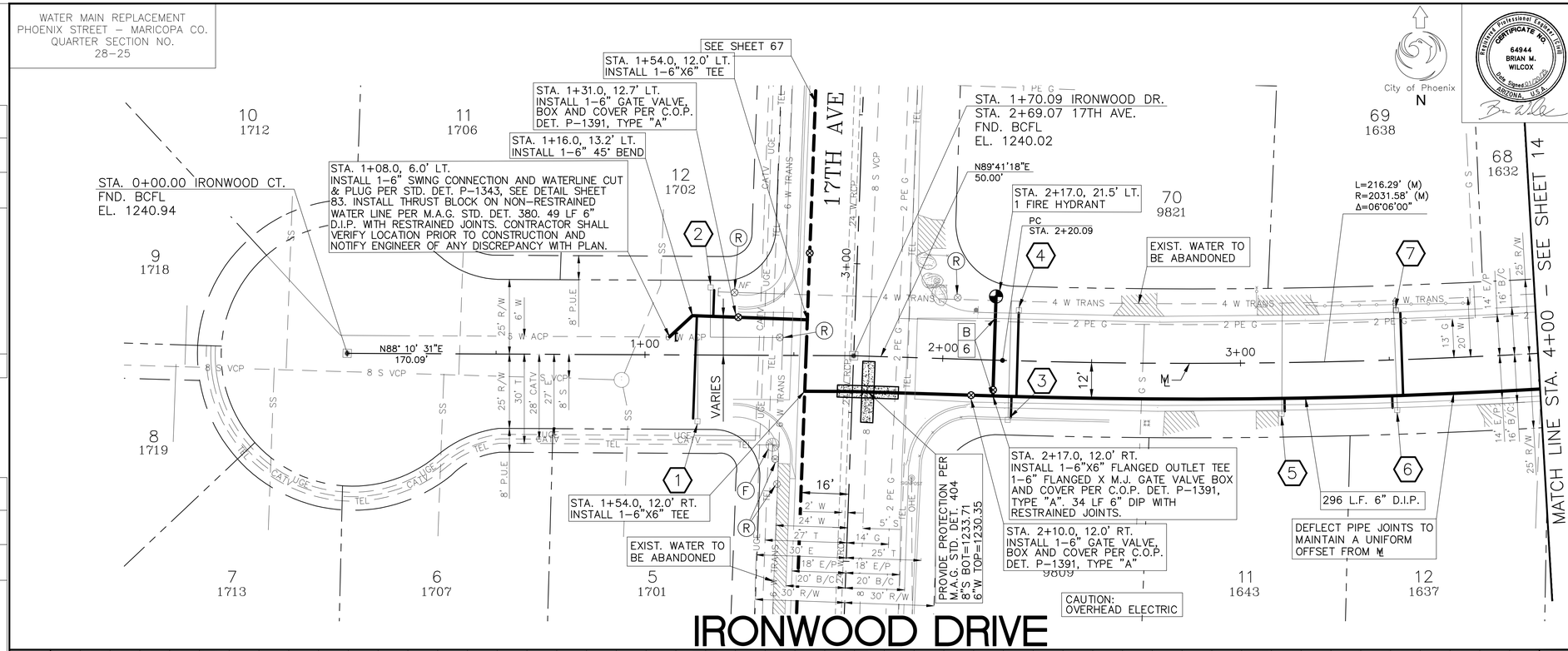
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

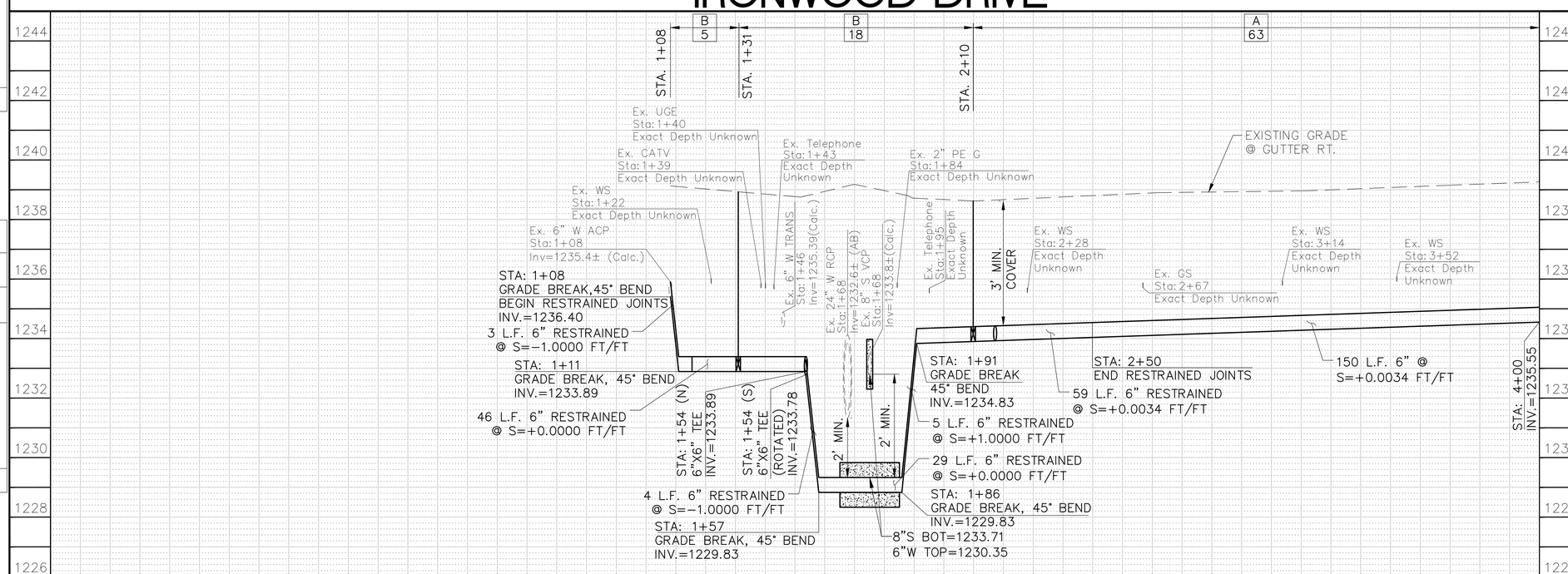
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115173a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_MOUNTAIN VIEW 2400–END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	13	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	1+16	1"	38
2	1+23	1"	12
3	2+23	1"	10
4	2+25	1"	31
5	3+15	1"	7
6	3+51	1"	7
7	3+54	1"	31

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REGISTERED ENGINEER _____ DATE _____

REGISTRATION NUMBER _____

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

IRONWOOD DRIVE
STA. 0+00 - STA. 4+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	13	83

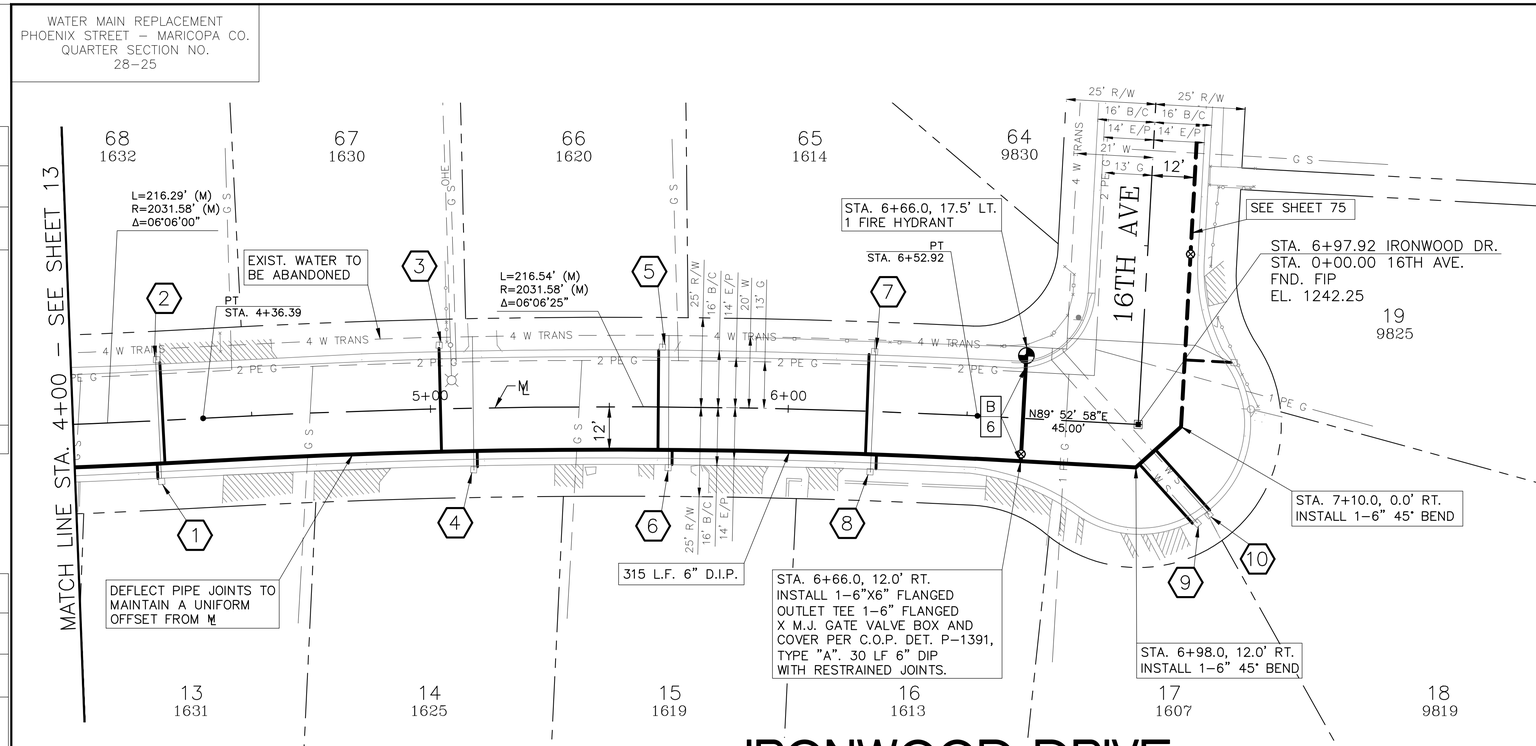
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

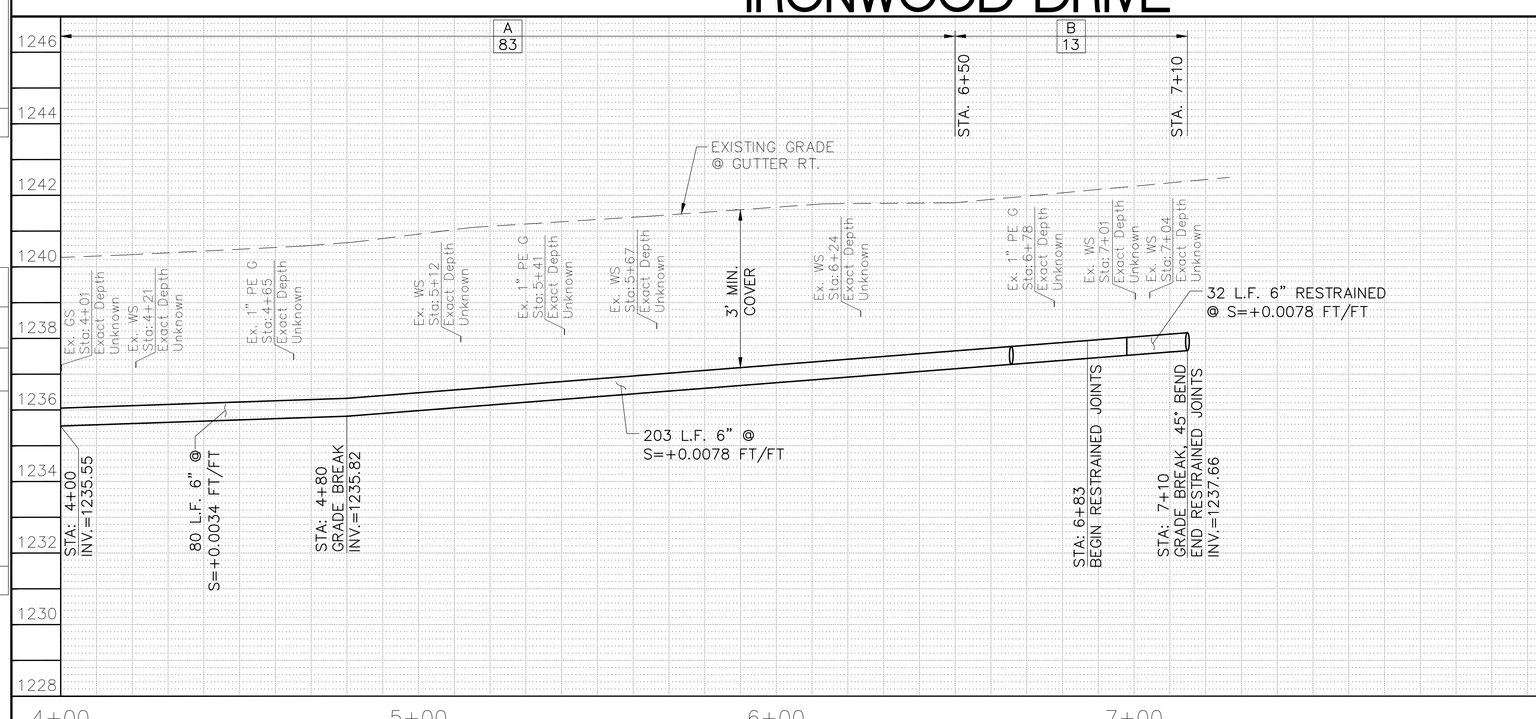
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177g – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_IRONWOOD_DR_000–400.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	14	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	4+23	1"	7
2	4+25	1"	31
3	5+03	1"	32
4	5+13	1"	7
5	5+64	1"	31
6	5+68	1"	7
7	6+22	1"	31
8	6+25	1"	7
9	7+15	1"	25
10	7+19	1"	26

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REGISTERED ENGINEER _____ **DATE** _____

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

IRONWOOD DRIVE
STA. 4+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	14	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

CITY OF PHOENIX

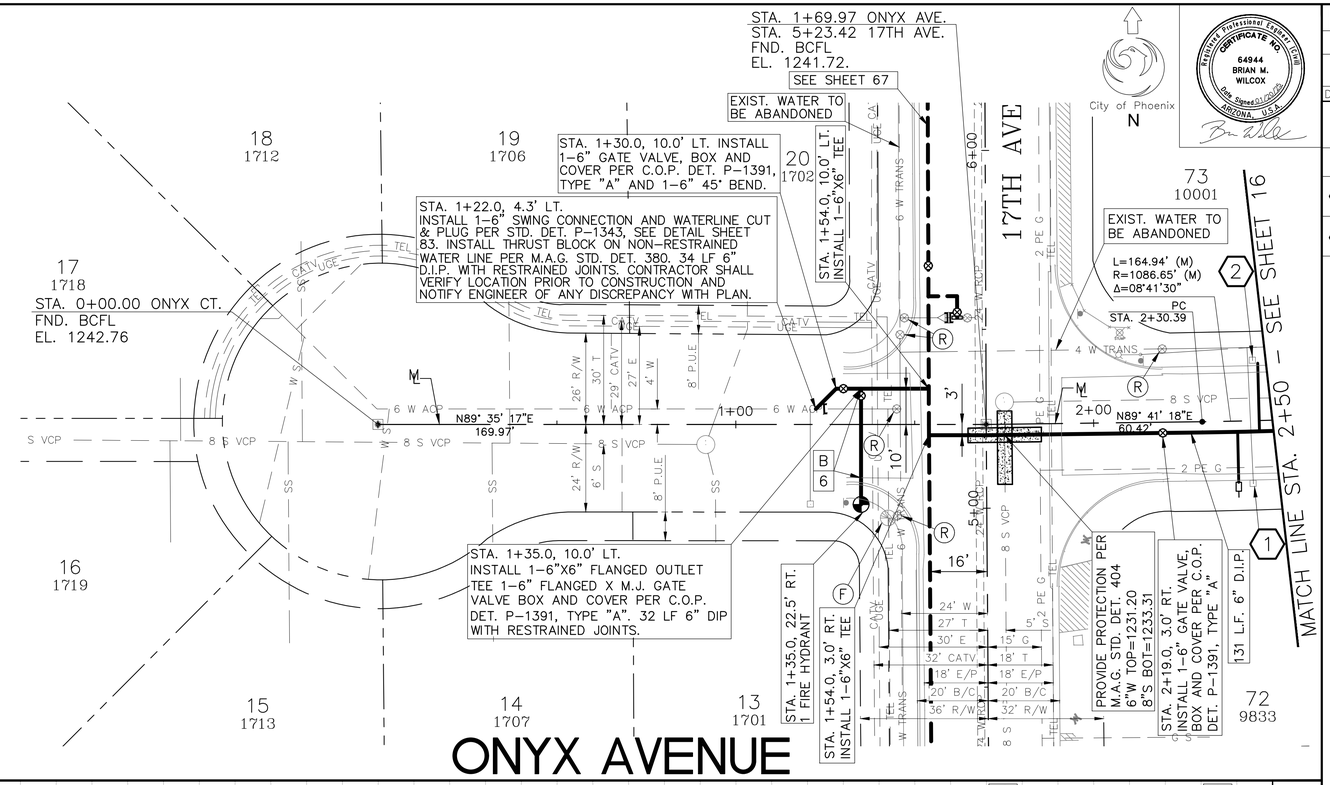
NO.	DESCRIPTION	REV BY	CKD BY	DATE

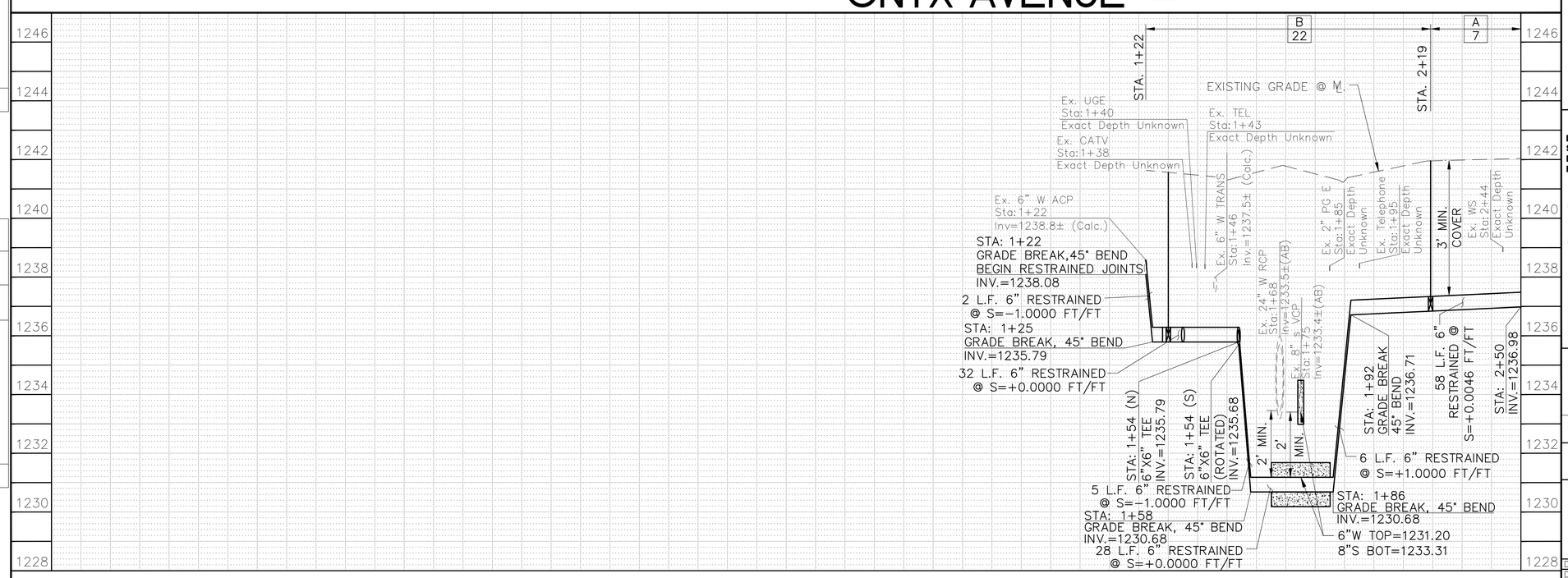
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177g – wmr – mountain view & 15th ave\da_production\Cadd\09_Water\WS85509031_IRONWOOD_DR_400-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	15	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	2+43	1"	17
2	2+46	1"	22

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

ONYX AVENUE
STA. 0+00 - STA. 2+50

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	15	83

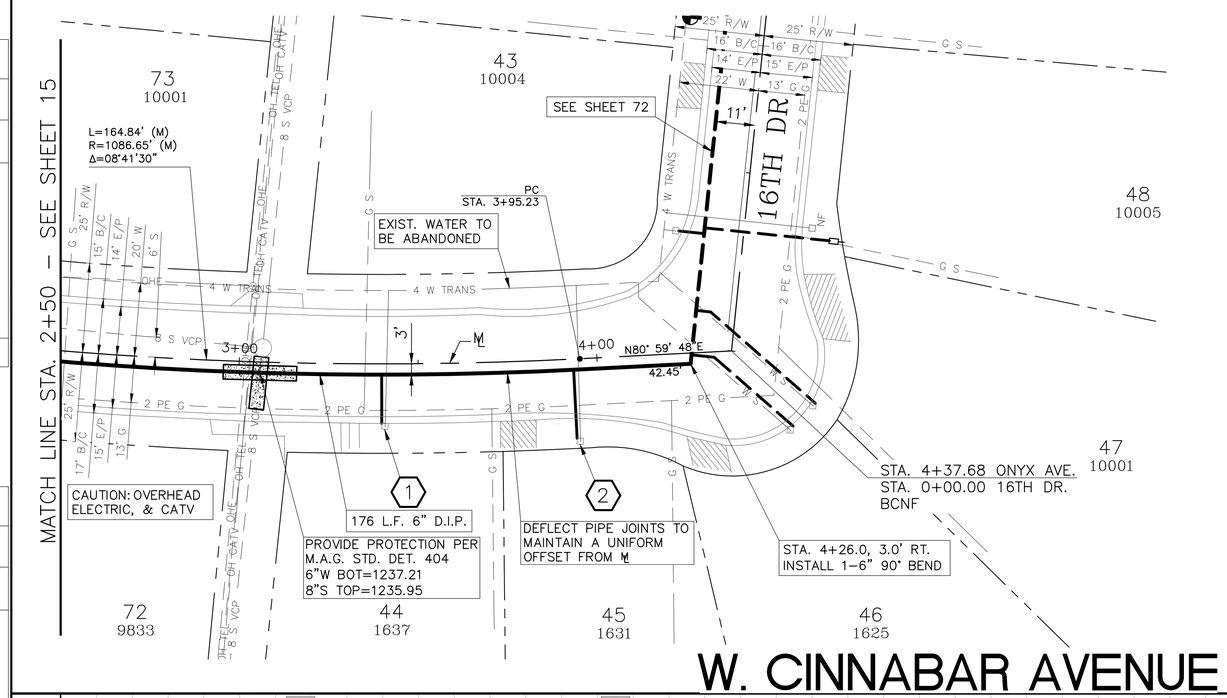
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

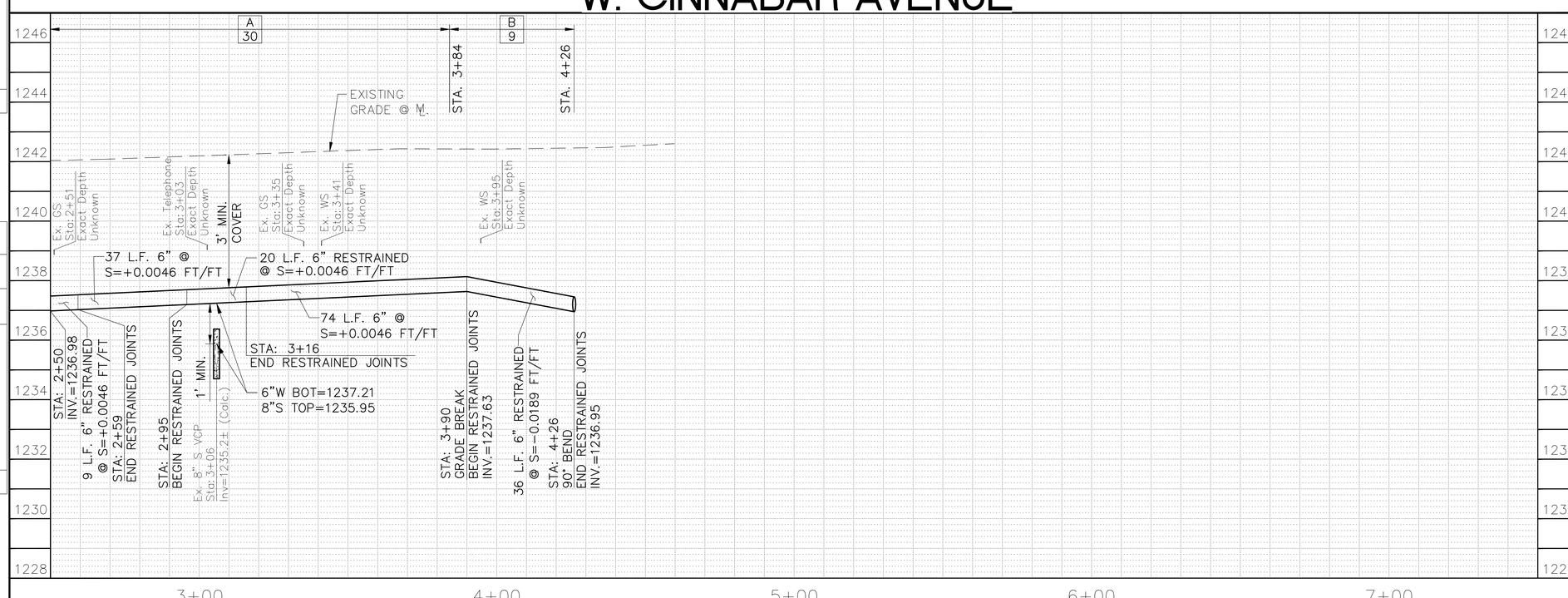
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_ONYX AVE_000–250.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





City of Phoenix
N

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	16	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	3+40	1"	17
2	3+93	1"	22

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

W. CINNABAR AVENUE
STA. 2+50 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	16	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

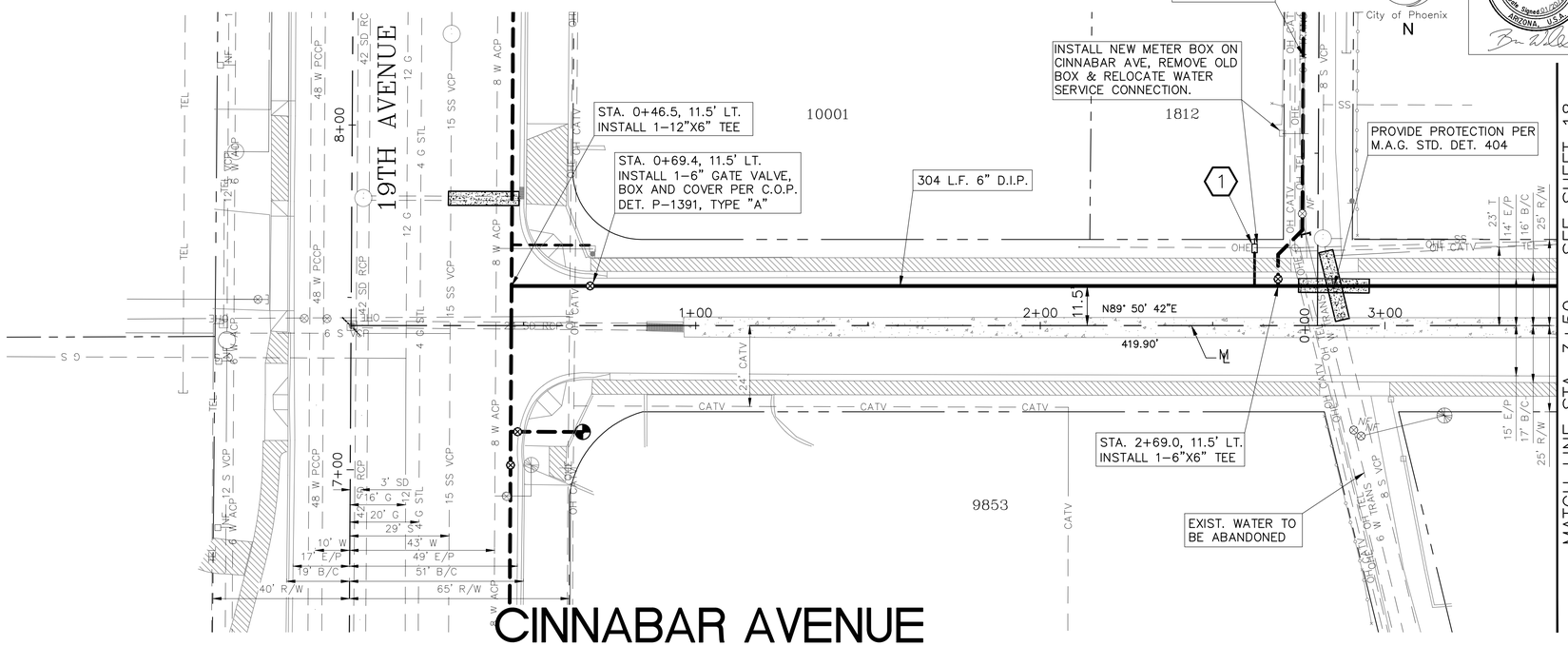
NO.	DESCRIPTION	REV BY	CKD BY	DATE

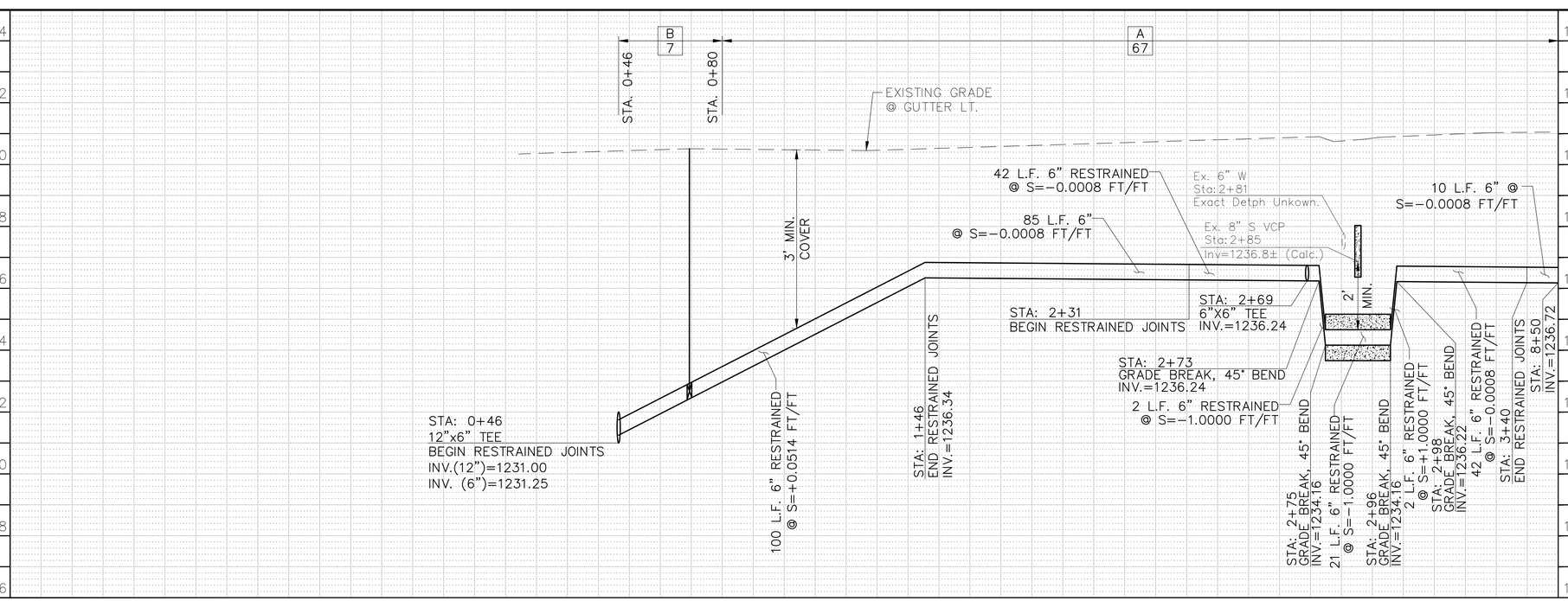
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

DATE: Jan 20, 2025
FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_ONYX AVE_250–END.dwg

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	17	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	2+63	1"	13

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CINNABAR AVENUE
STA. 0+00 - STA. 3+50

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	17	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

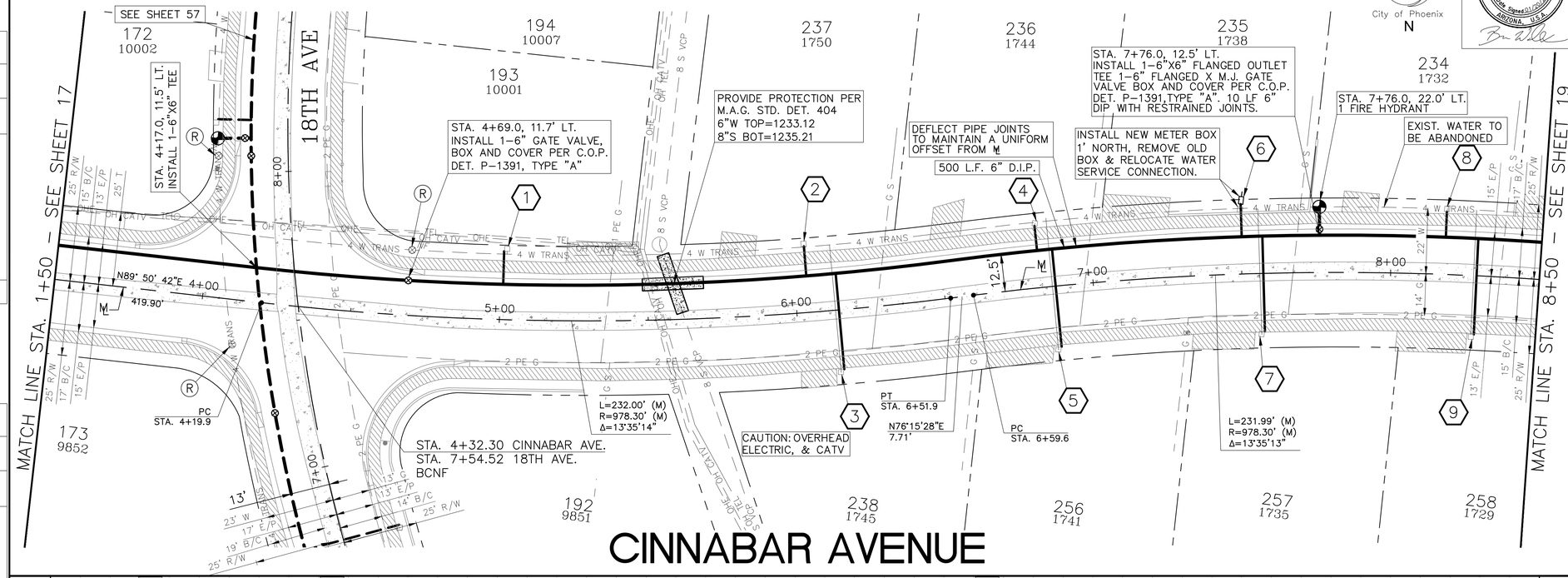
NO.	DESCRIPTION	REV BY	CKD BY	DATE

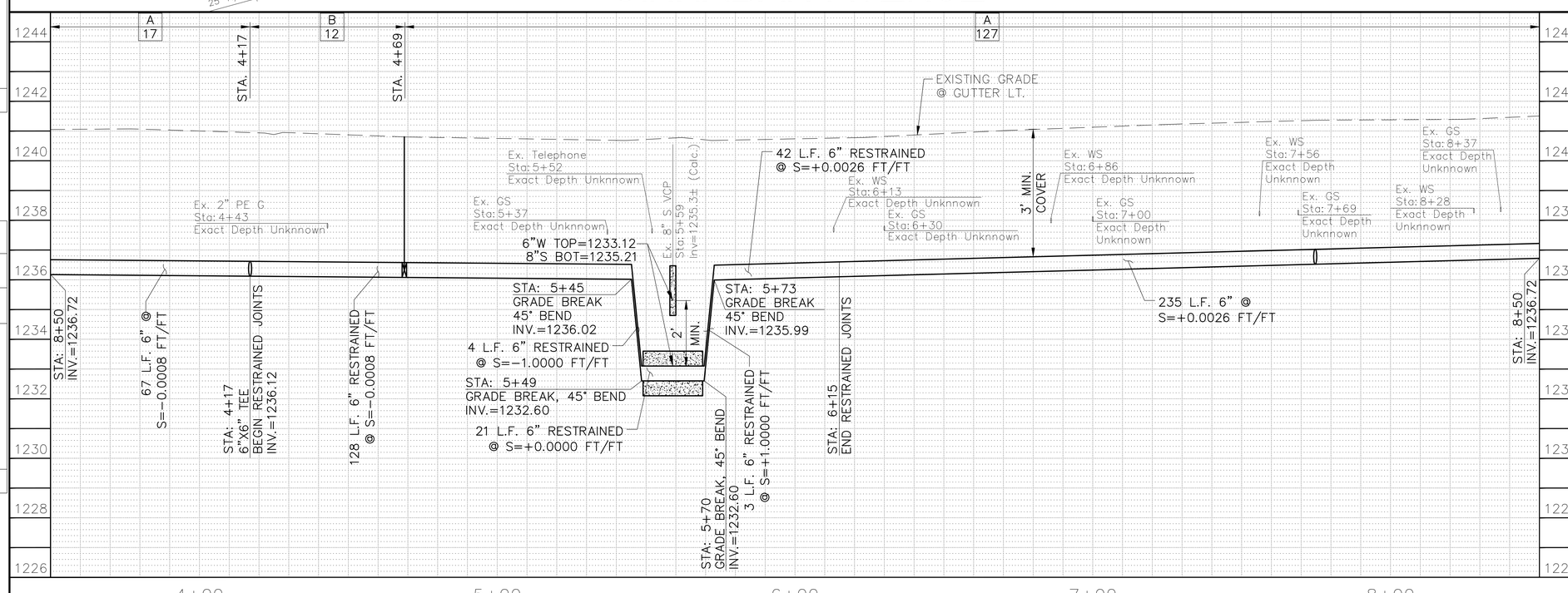
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115173a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_CINNABAR AVE_000-350.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	18	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	5+01	1"	14
2	5+98	1"	13
3	6+14	1"	35
4	6+82	1"	11
5	6+87	1"	36
6	7+50	1"	14
7	7+57	1"	35
8	8+18	1"	12
9	8+29	1"	35

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CINNABAR AVENUE
STA. 3+50 - STA. 8+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	18	83

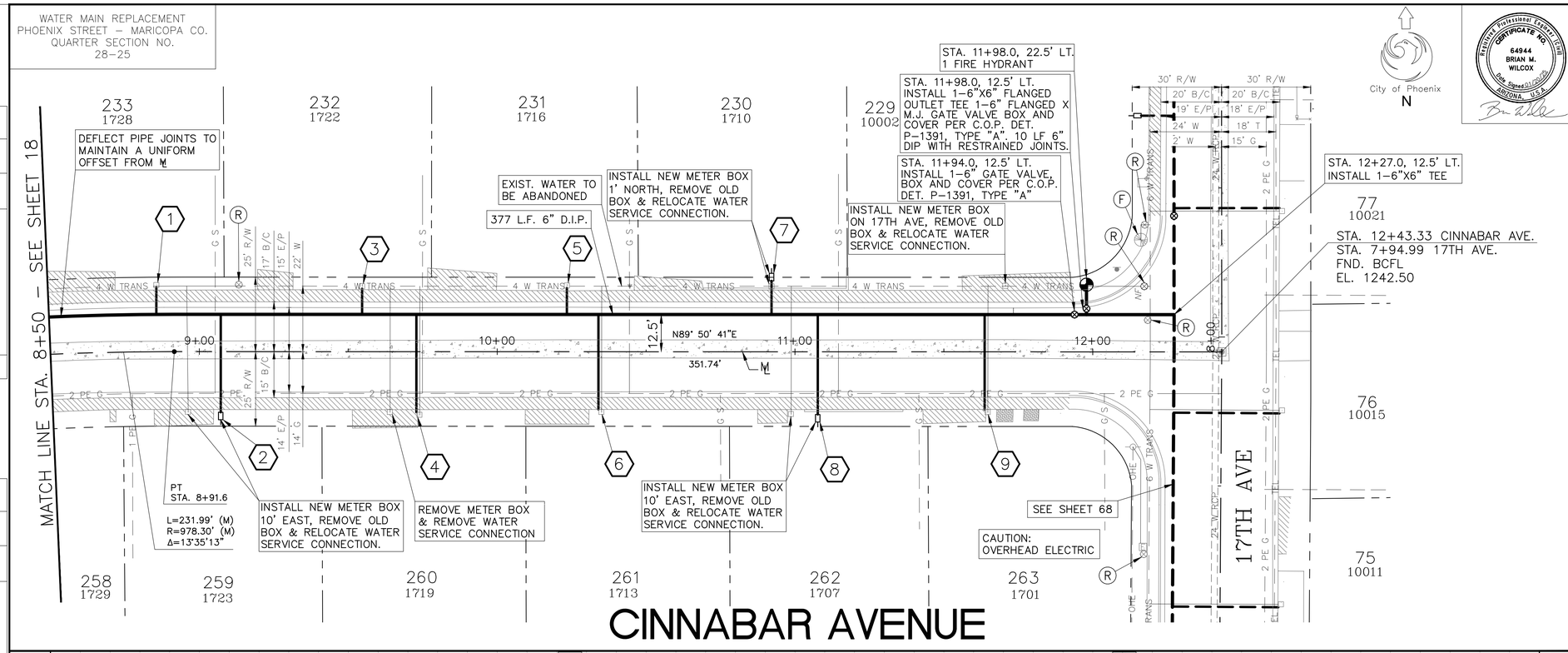
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

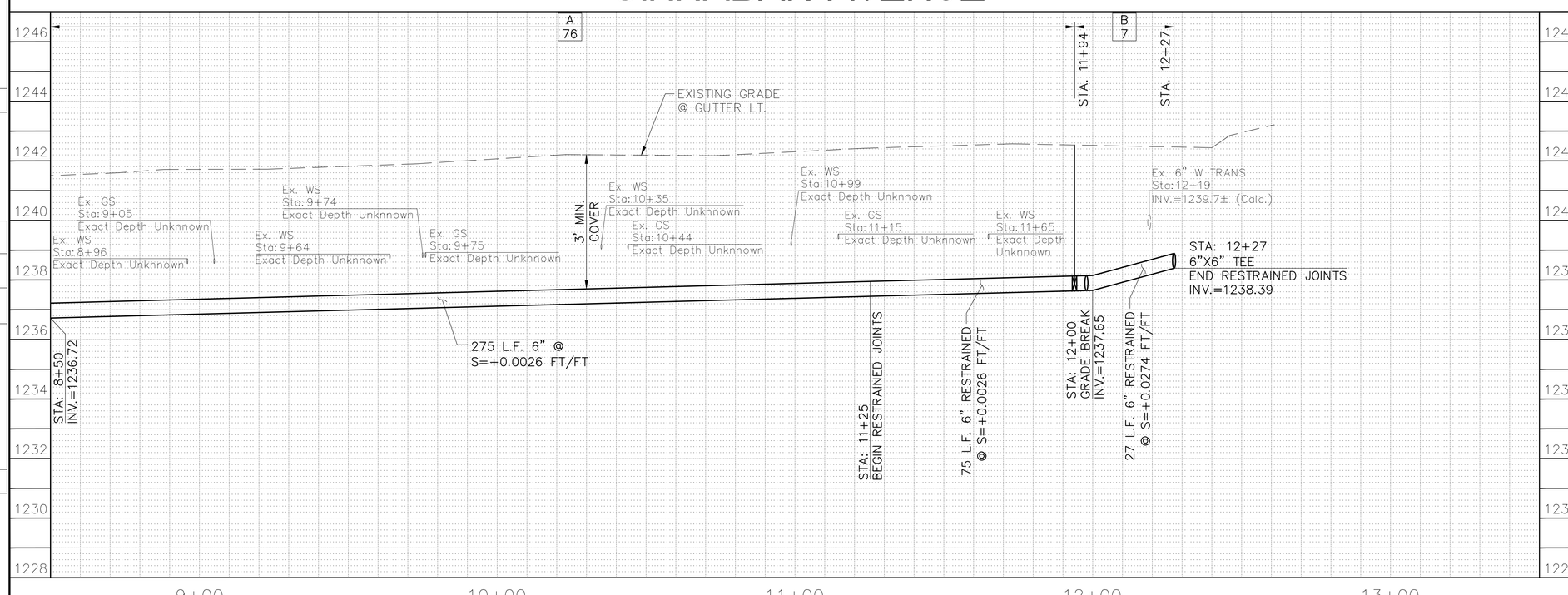
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

FILE: P:\100\115173a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_CINNABAR AVE_350-850.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	19	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	8+86	1"	12
2	9+07	1"	36
3	9+55	1"	12
4	9+73	1"	36
5	10+23	1"	12
6	10+34	1"	35
7	10+92	1"	14
8	11+08	1"	37
9	11+64	1"	35

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:
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AS-BUILT CERTIFICATION

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

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ARIZONA811
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CINNABAR AVENUE
STA. 8+50 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	19	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

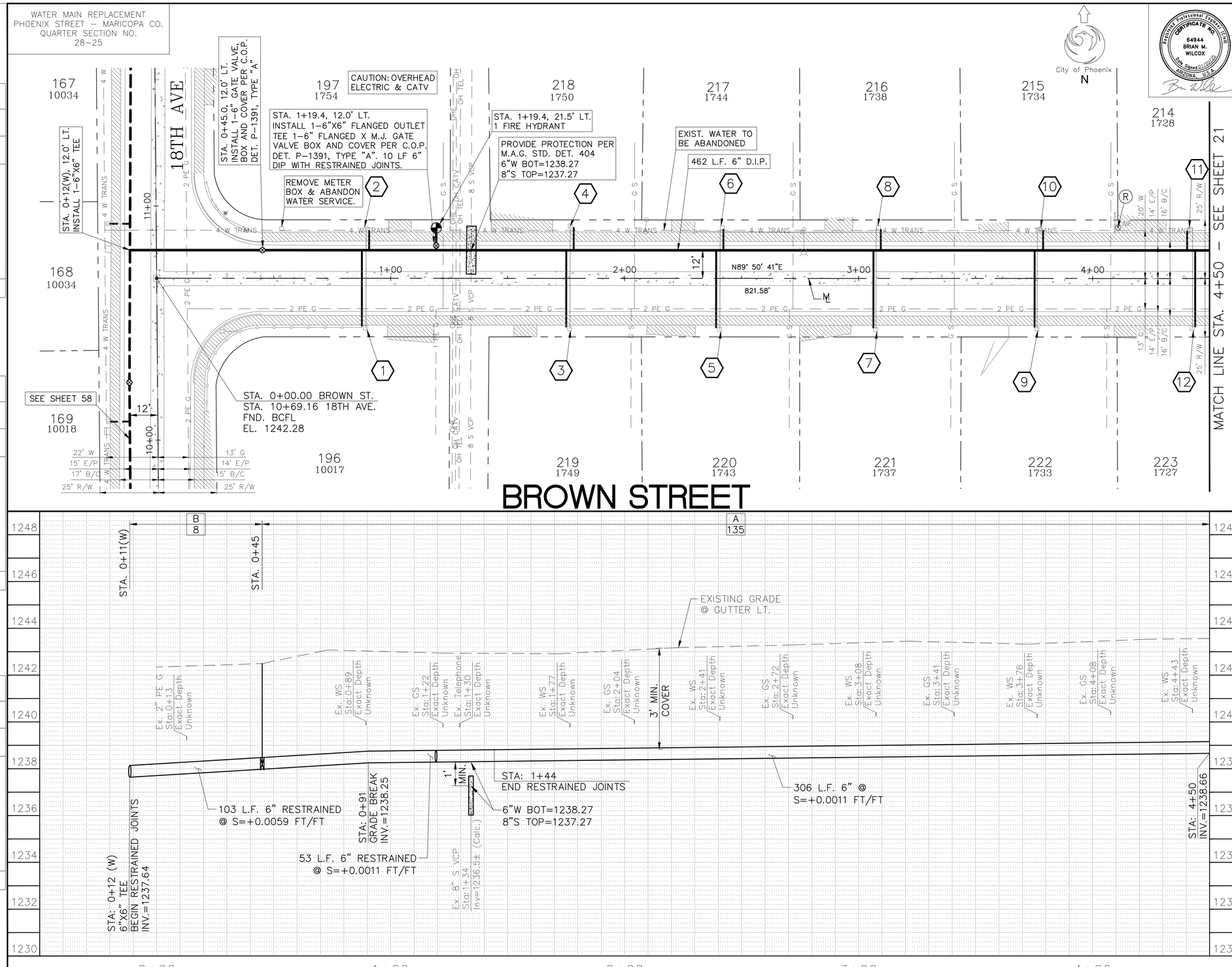
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_CINNABAR AVE_850-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	20	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+88	1"	35
2	0+91	1"	11
3	1+75	1"	36
4	1+78	1"	13
5	2+39	1"	36
6	2+42	1"	12
7	3+06	1"	36
8	3+09	1"	12
9	3+75	1"	36
10	3+79	1"	11
11	4+40	1"	11
12	4+44	1"	35

NOTE:
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AS-BUILT CERTIFICATION

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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BROWN STREET
STA. 0+00 - STA. 4+50

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	20	83

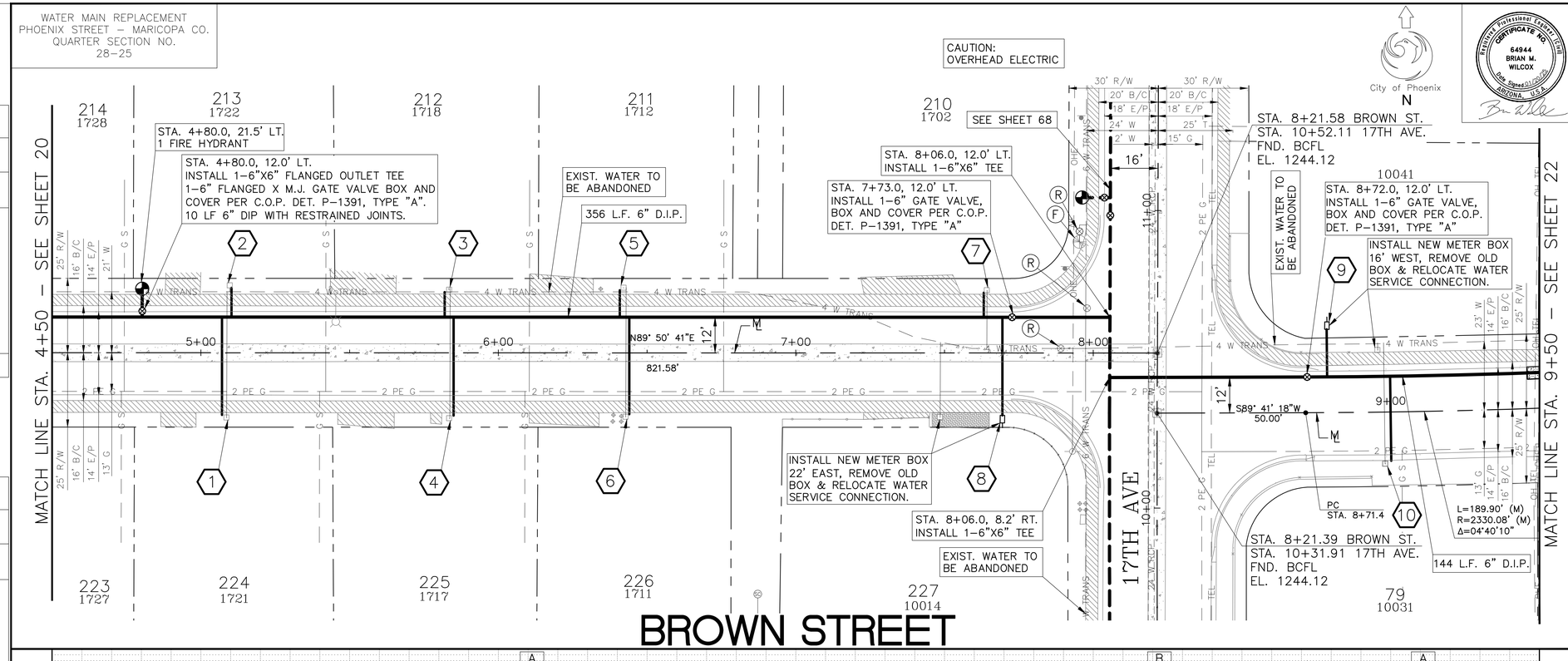
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

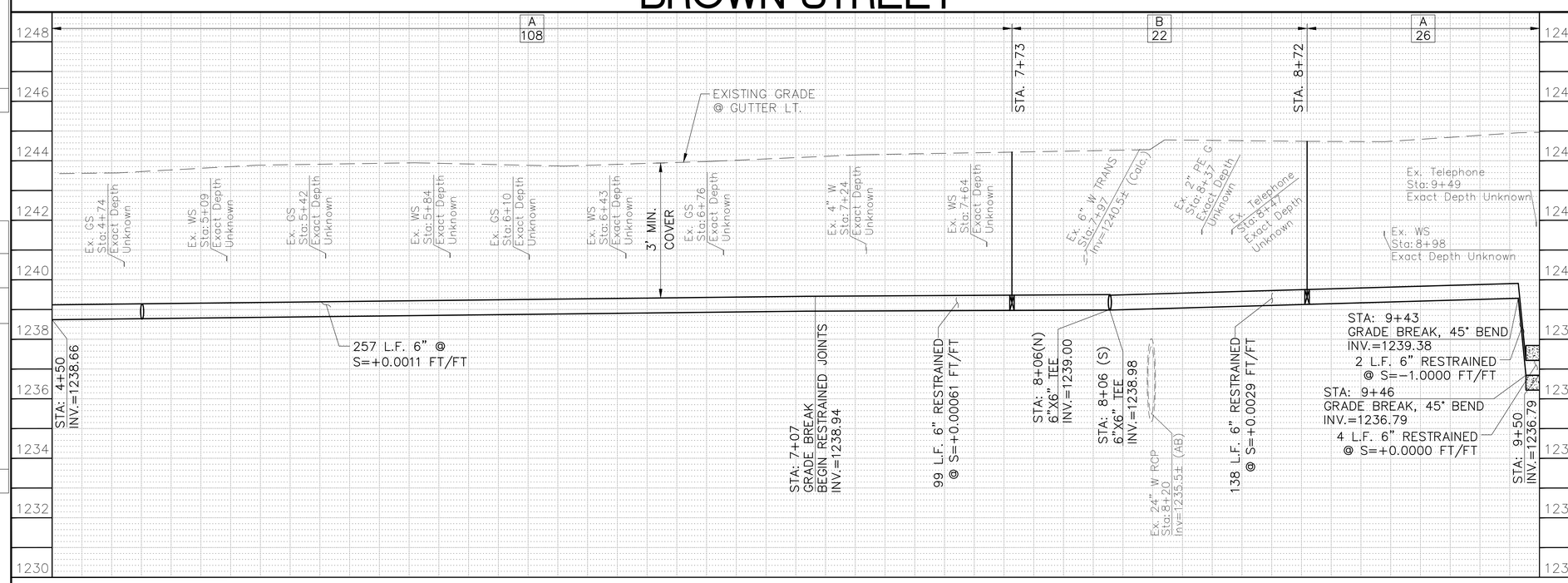
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_BROWN_ST_000-450.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	21	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	5+07	1"	36
2	5+10	1"	13
3	5+82	1"	11
4	5+85	1"	36
5	6+41	1"	12
6	6+44	1"	36
7	7+63	1"	11
8	7+69	1"	36
9	8+80	1"	19
10	9+00	1"	31

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REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BROWN STREET
STA. 4+50 - STA. 9+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	21	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

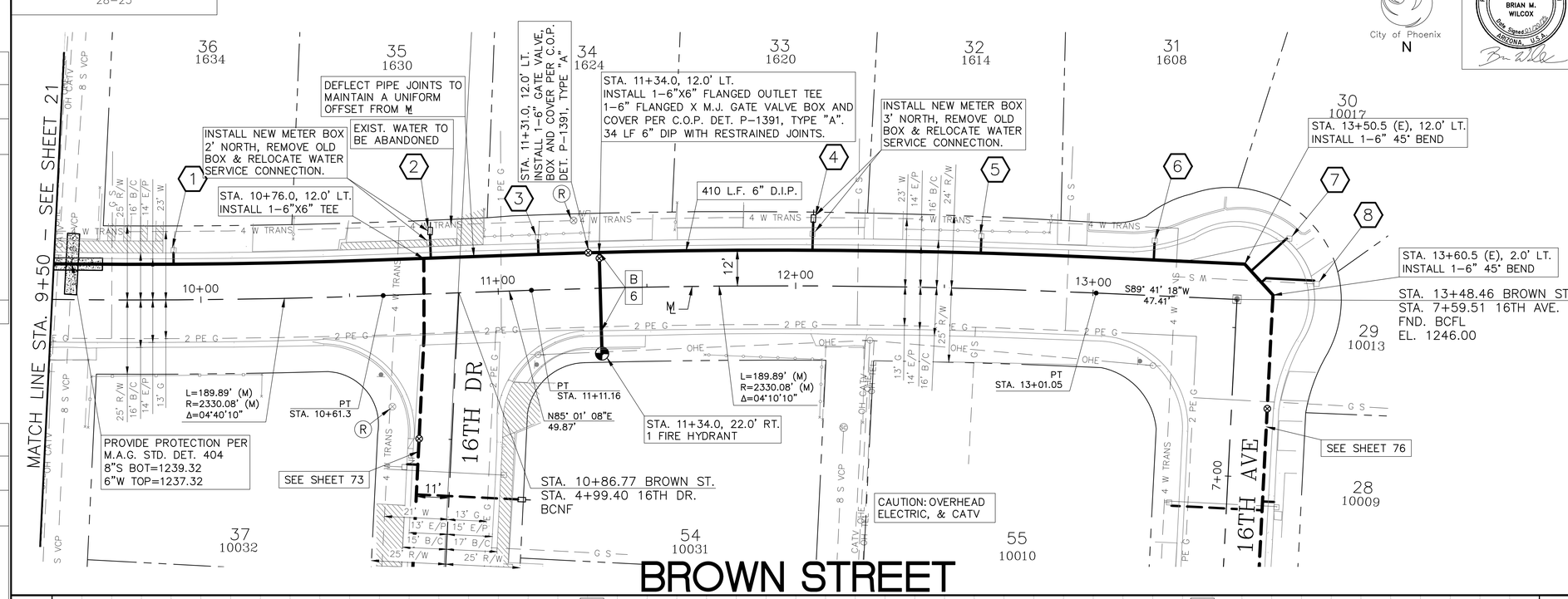
NO.	DESCRIPTION	REV BY	CKD BY	DATE

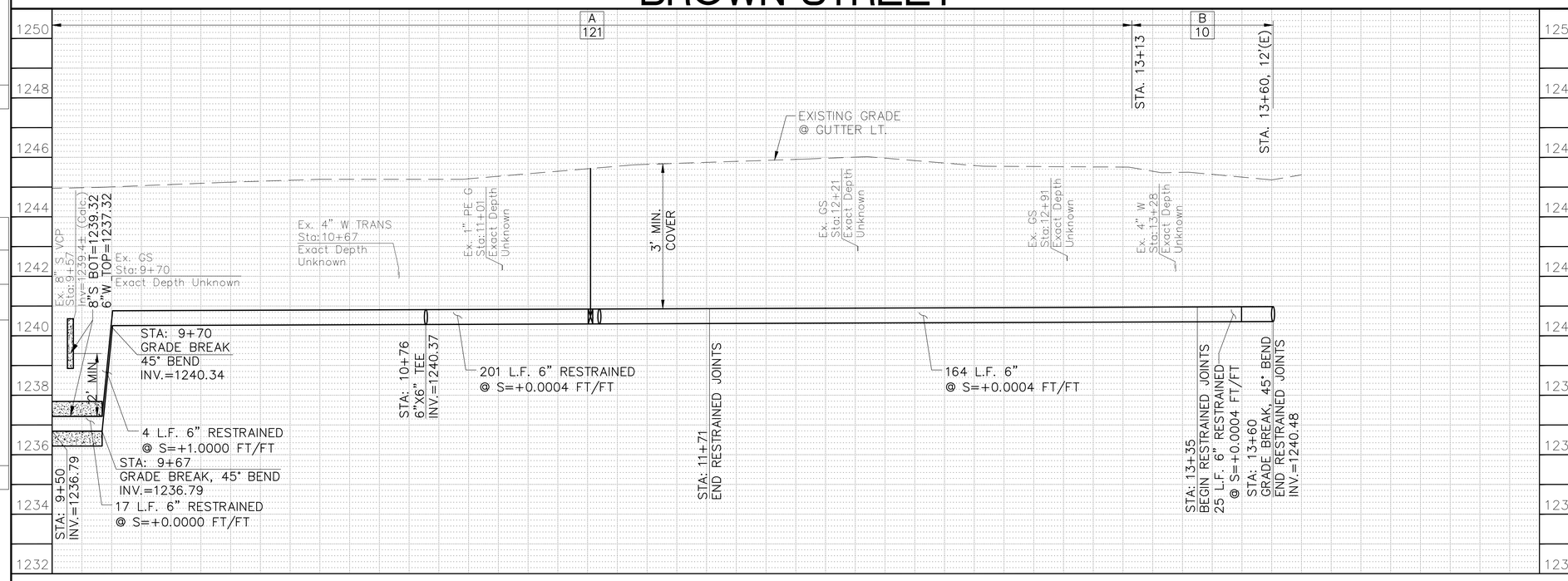
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_BROWN_ST_450-950.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	22	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	9+91	1"	7
2	10+77	1"	11
3	11+14	1"	8
4	12+06	1"	12
5	12+62	1"	8
6	13+20	1"	9
7	13+65	1"	19
8	13+75	1"	21

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

Registered Professional Engineer (Civil) CERTIFICATE NO. 64944 BRIAN M. WILCOX Date Signed 01/20/25 ARIZONA, U.S.A.

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BROWN STREET
STA. 9+50 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	22	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

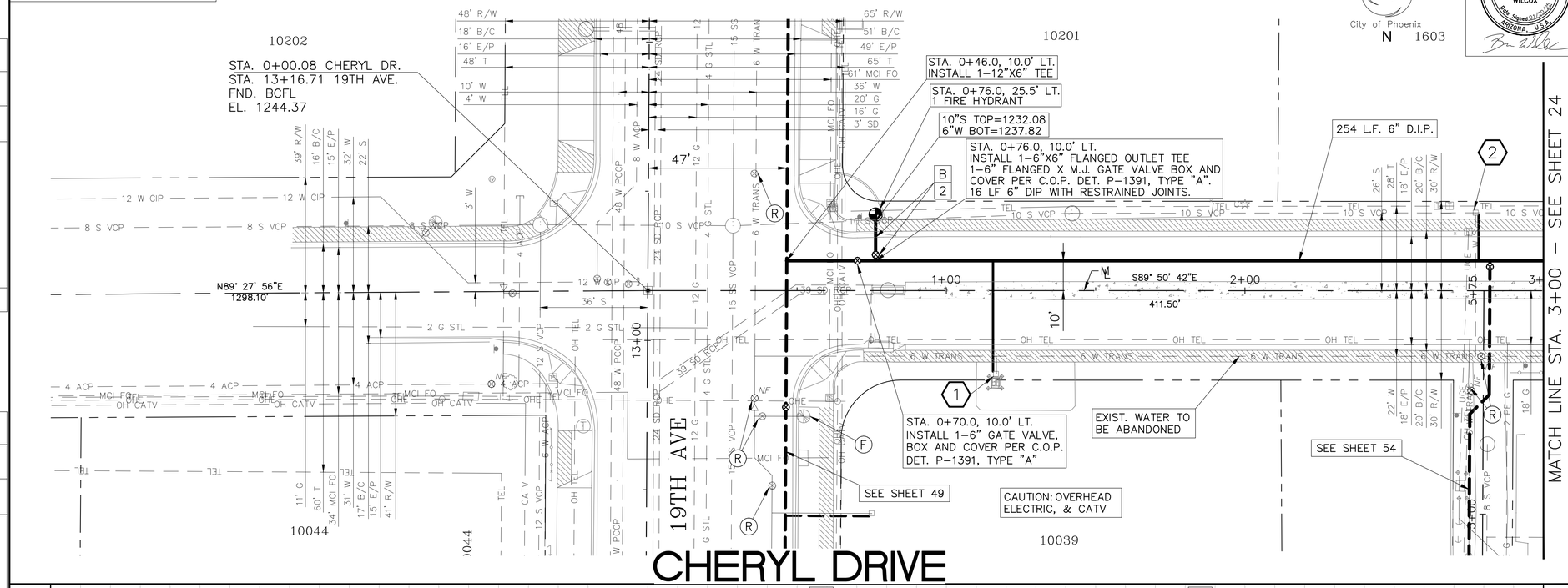
NO.	DESCRIPTION	REV BY	CKD BY	DATE

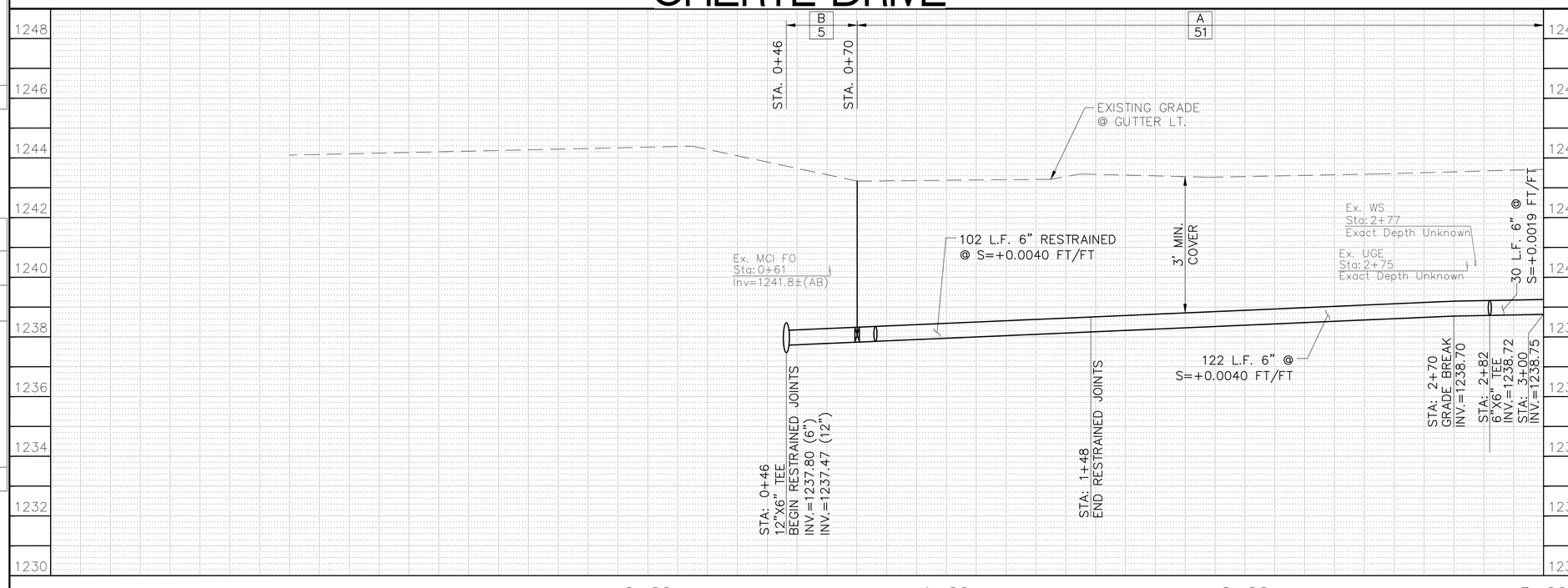
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_BROWN_ST_950-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	23	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	1+16	1"	40
2	2+78	1.5"	18

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CHERYL DRIVE
STA. 0+00 - STA. 3+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	23	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

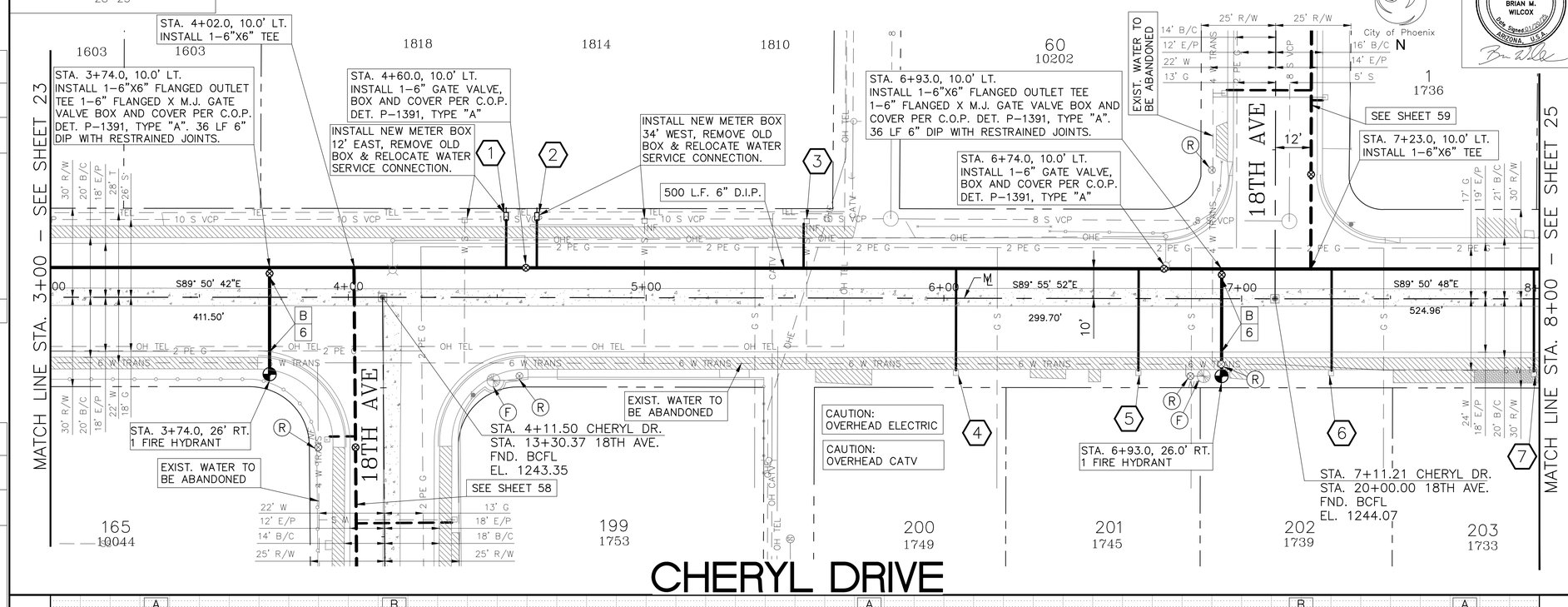
NO.	DESCRIPTION	REV BY	CKD BY	DATE

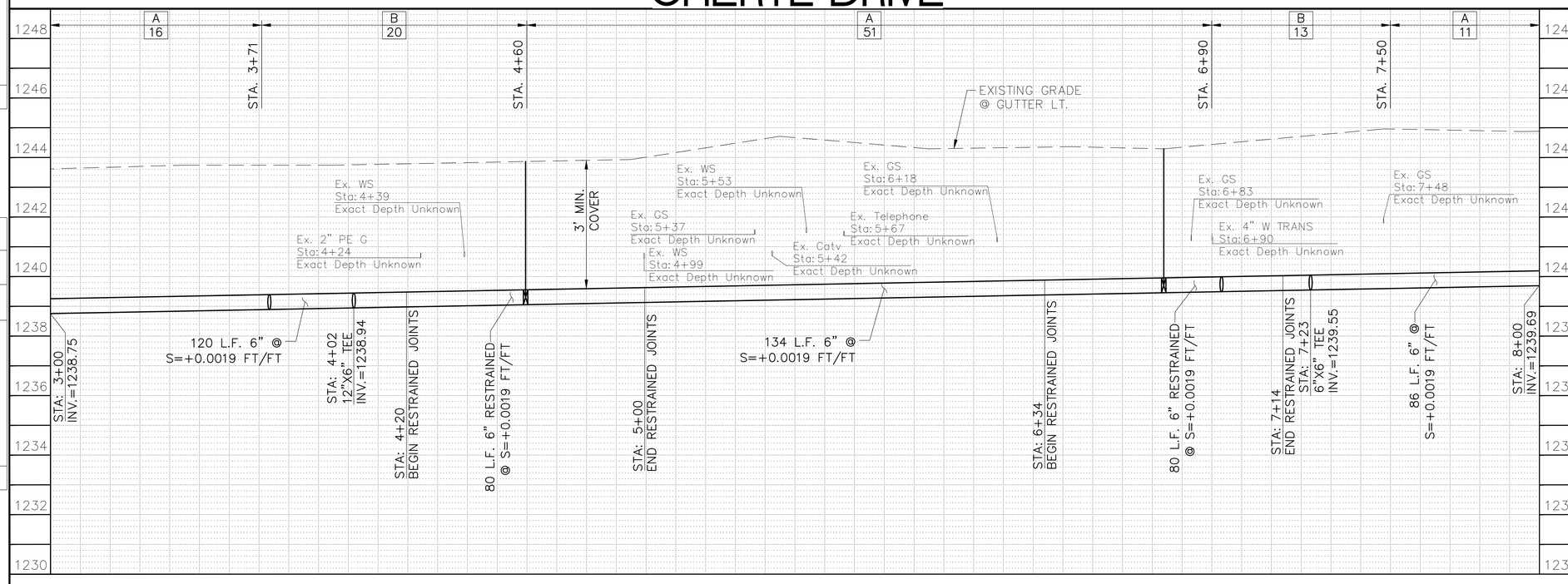
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_CHERYL DR_000-300.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	24	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

METER SERVICE CONNECTIONS STD DET P–1342

NO.	STATION	SIZE	LF
1	4+53	1"	19
2	4+63	1"	19
3	5+53	1"	18
4	6+04	1"	37
5	6+65	1"	37
6	7+30	1"	37
7	7+98	1"	37

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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CHERYL DRIVE
STA. 3+00 - STA. 8+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	24	83

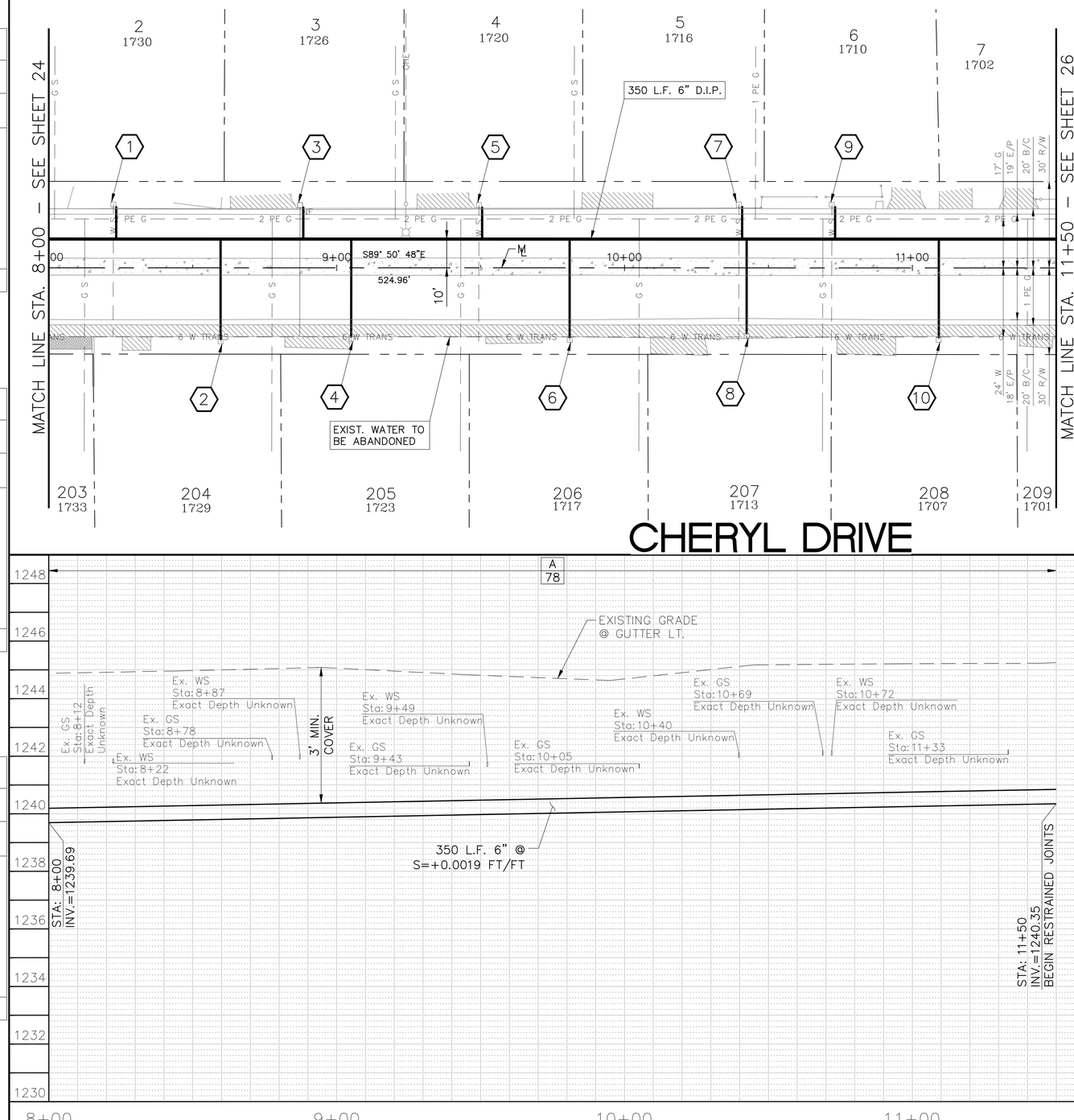
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_CHERYL DR_300-800.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N

Registered Professional Engineer (Civil) CERTIFICATE NO. 64944 BRIAN M. WILCOX Date Signed 01/24/25 ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	25	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	8+23	1"	14
2	8+60	1"	38
3	8+88	1"	14
4	9+05	1"	37
5	9+51	1"	14
6	9+81	1"	37
7	10+41	1"	14
8	10+42	1"	36
9	10+73	1"	14
10	11+09	1"	37

NOTE:
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REGISTERED ENGINEER _____ **DATE** _____

REGISTRATION NUMBER _____

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CHERYL DRIVE
STA. 8+00 - STA. 11+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	25	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

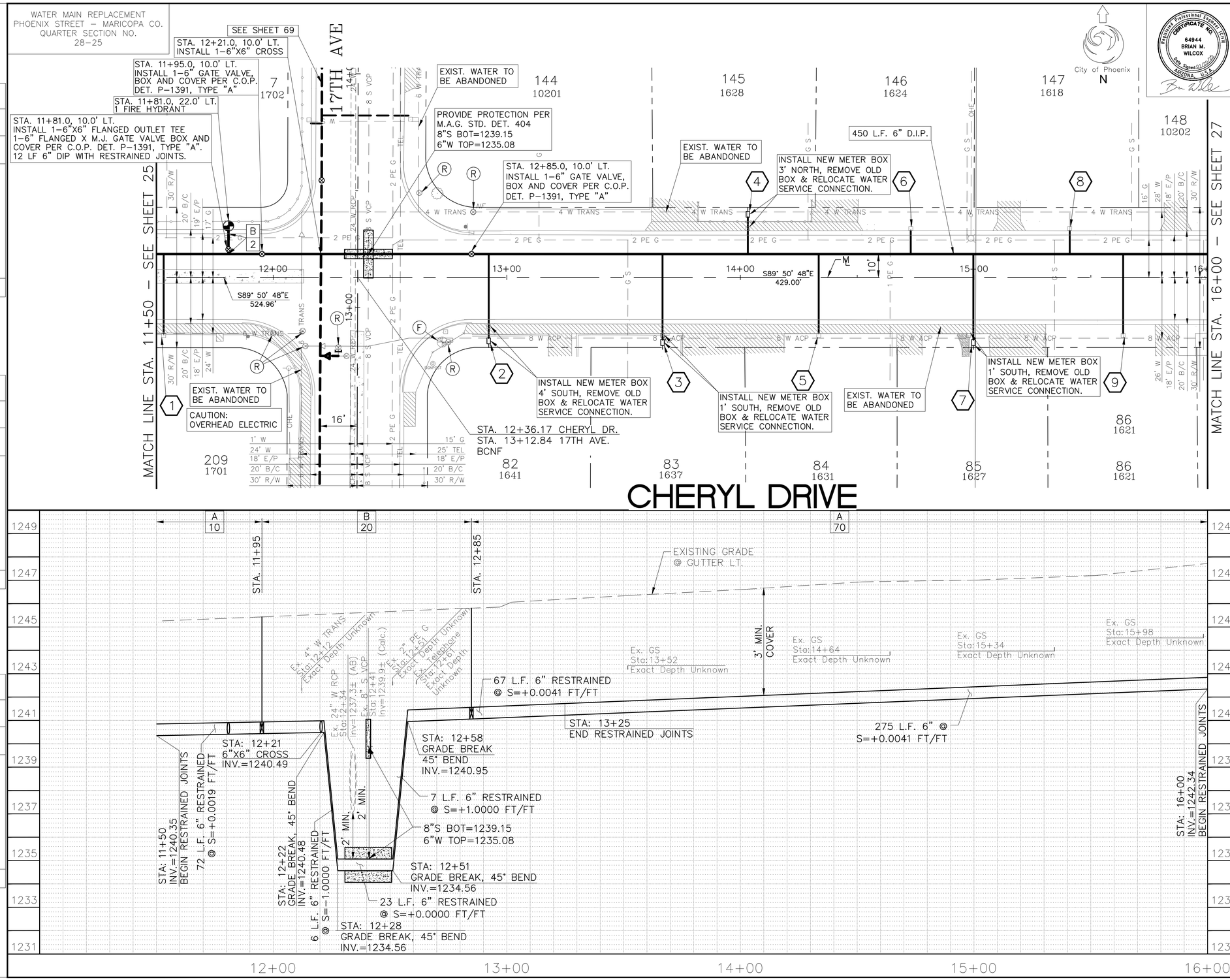
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_CHERYL DR_800-1150.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	26	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	11+53	1"	37
2	12+92	1"	39
3	13+67	1"	40
4	14+03	1"	19
5	14+33	1"	37
6	14+73	1"	13
7	14+98	1"	40
8	15+41	1"	13
9	15+64	1"	37

NOTE:
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NOTE:
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AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" 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 **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CHERYL DRIVE
STA. 11+50 - STA. 16+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	26	83

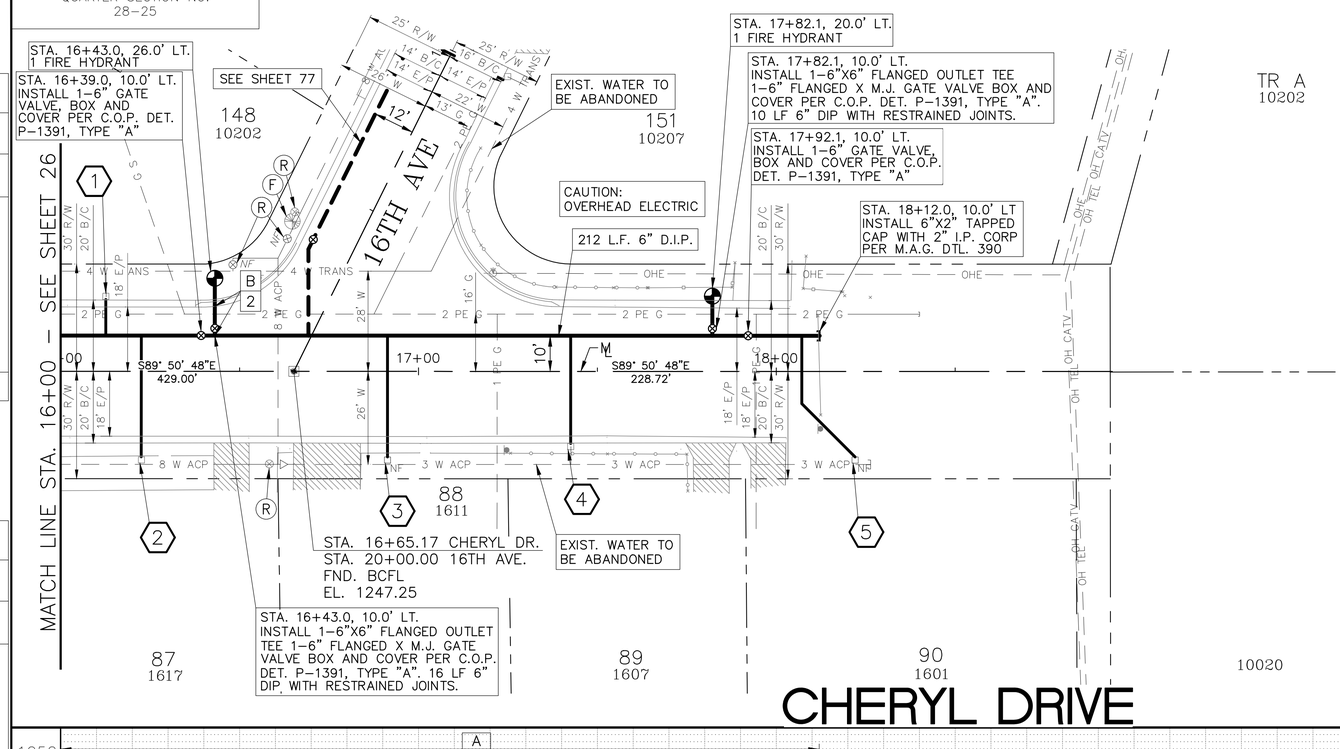
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

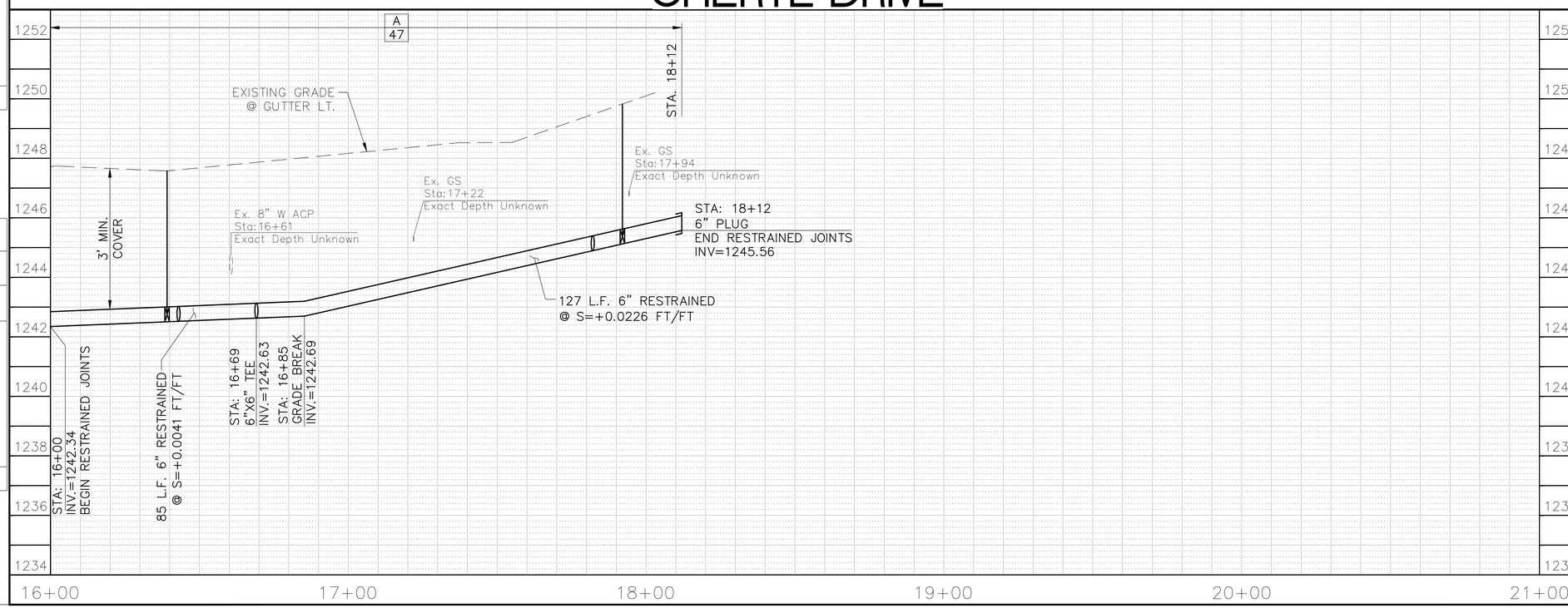
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115173a – wmr – mountain view & 15th dwg\d_production\Cadd\09_Water\WS85509031_CHERYL DR_1150-1600.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	27	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	16+13	1"	13
2	16+22	1"	37
3	16+91	1"	37
4	17+43	1"	33
5	18+22	1"	43

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

CHERYL DRIVE
STA. 16+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025		
SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL			27	83

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

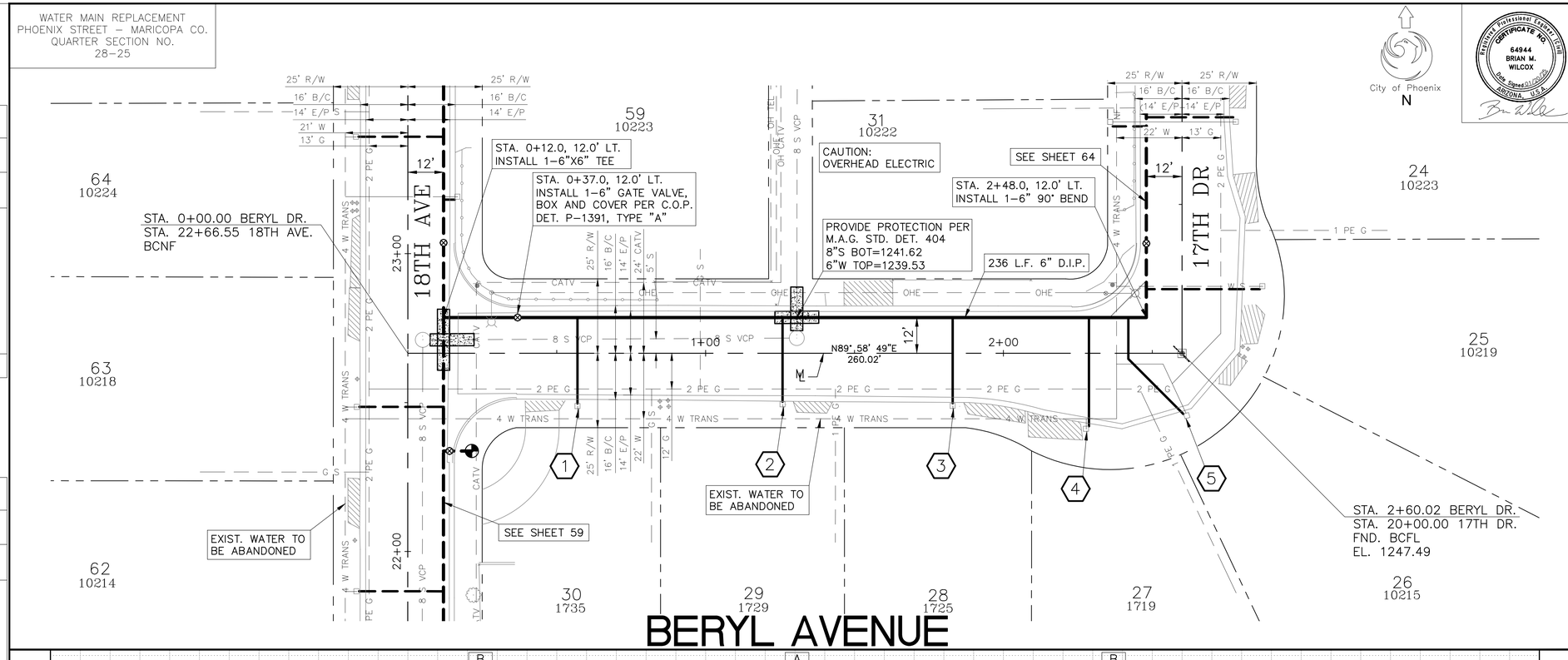
NO.	DESCRIPTION	REV BY	CKD BY	DATE

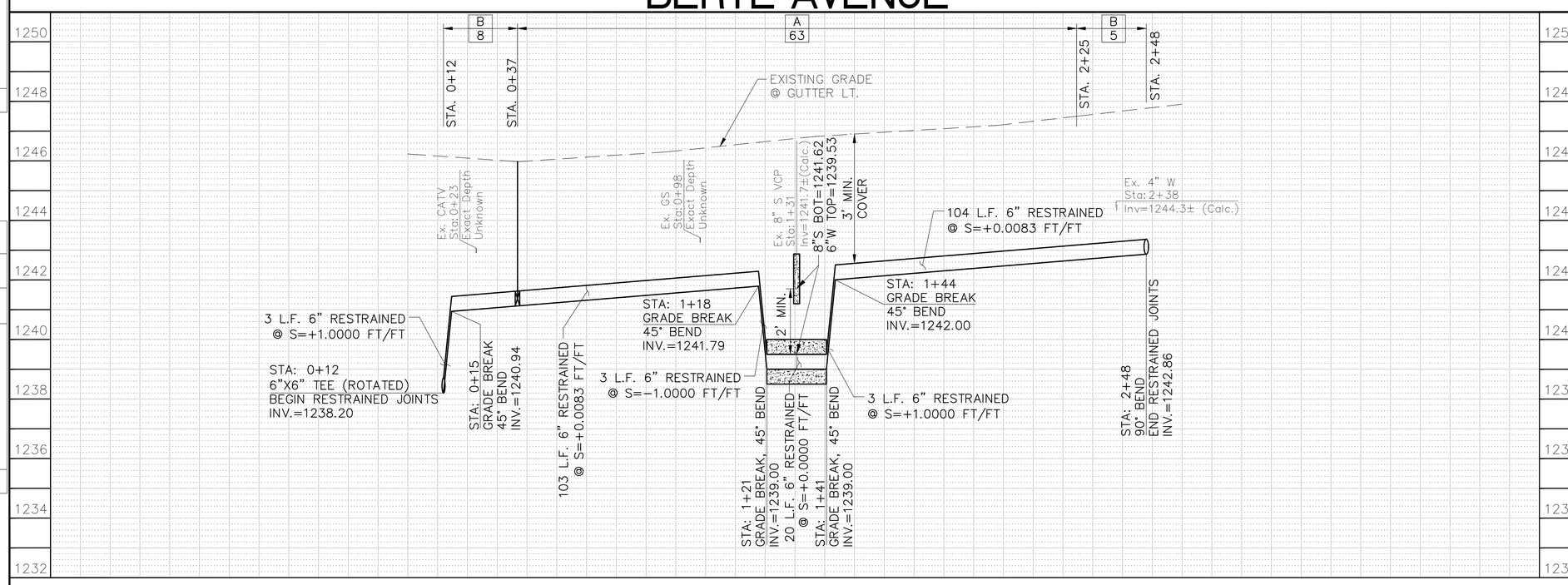
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177g – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_CHERYL_DR_1600-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	28	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+57	1"	32
2	1+26	1"	31
3	1+83	1"	32
4	2+29	1"	39
5	2+60	1"	43

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BERYL DRIVE
STA. 0+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	28	83

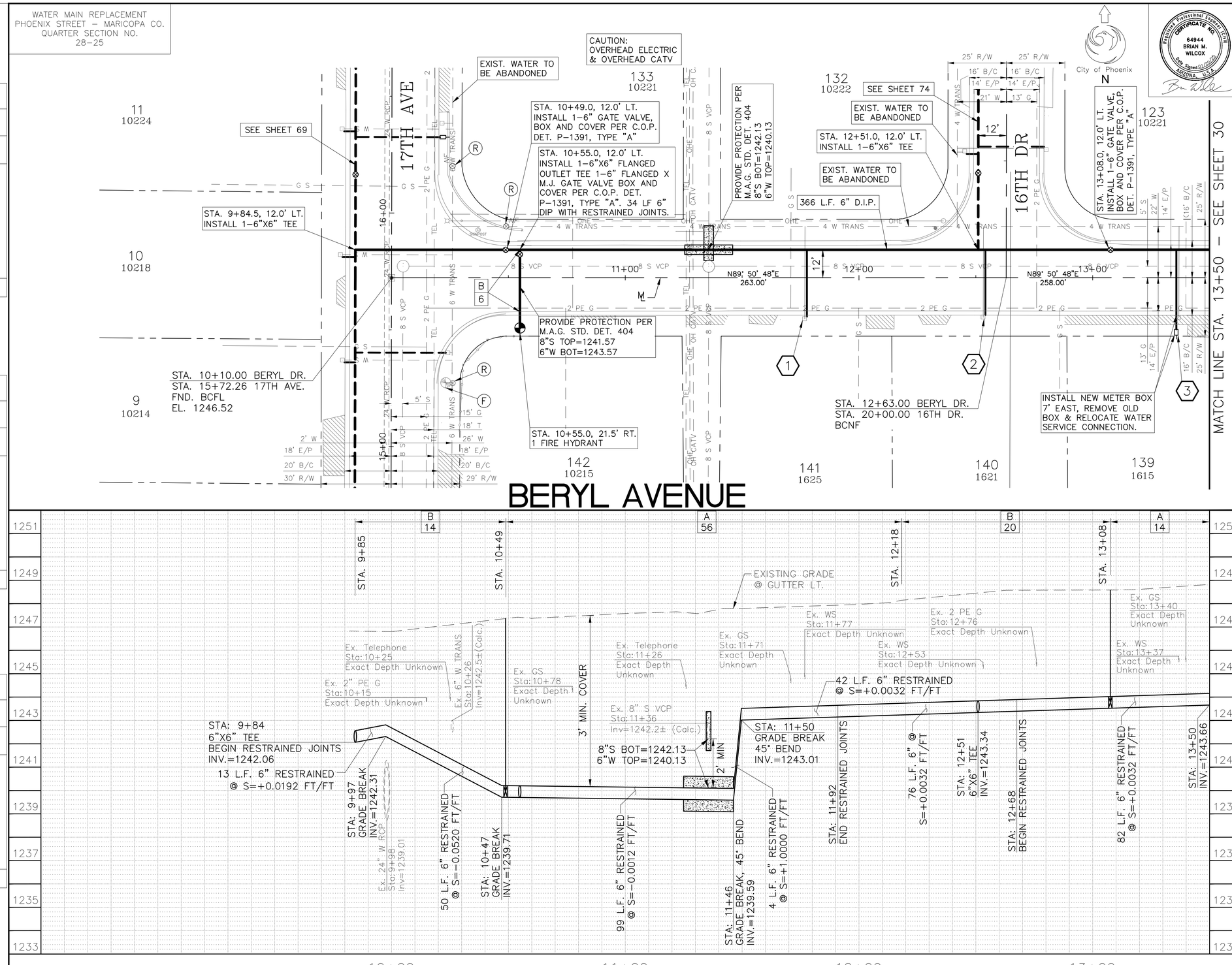
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_BERYL AVENUE_(W)_000–END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	29	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	11+78	1"	32
2	12+54	1"	31
3	13+36	1"	38

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BERYL DRIVE
STA. 10+00 - STA. 13+50

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	29	83

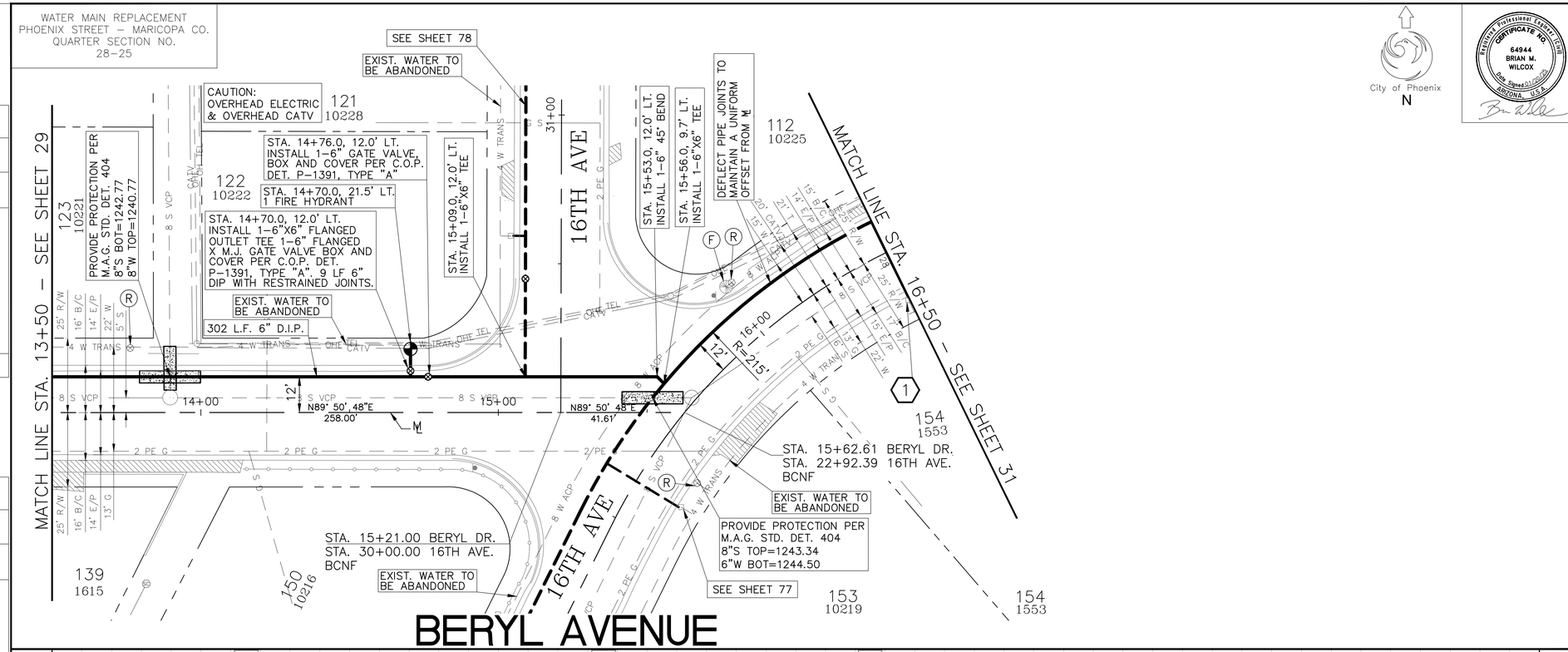
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

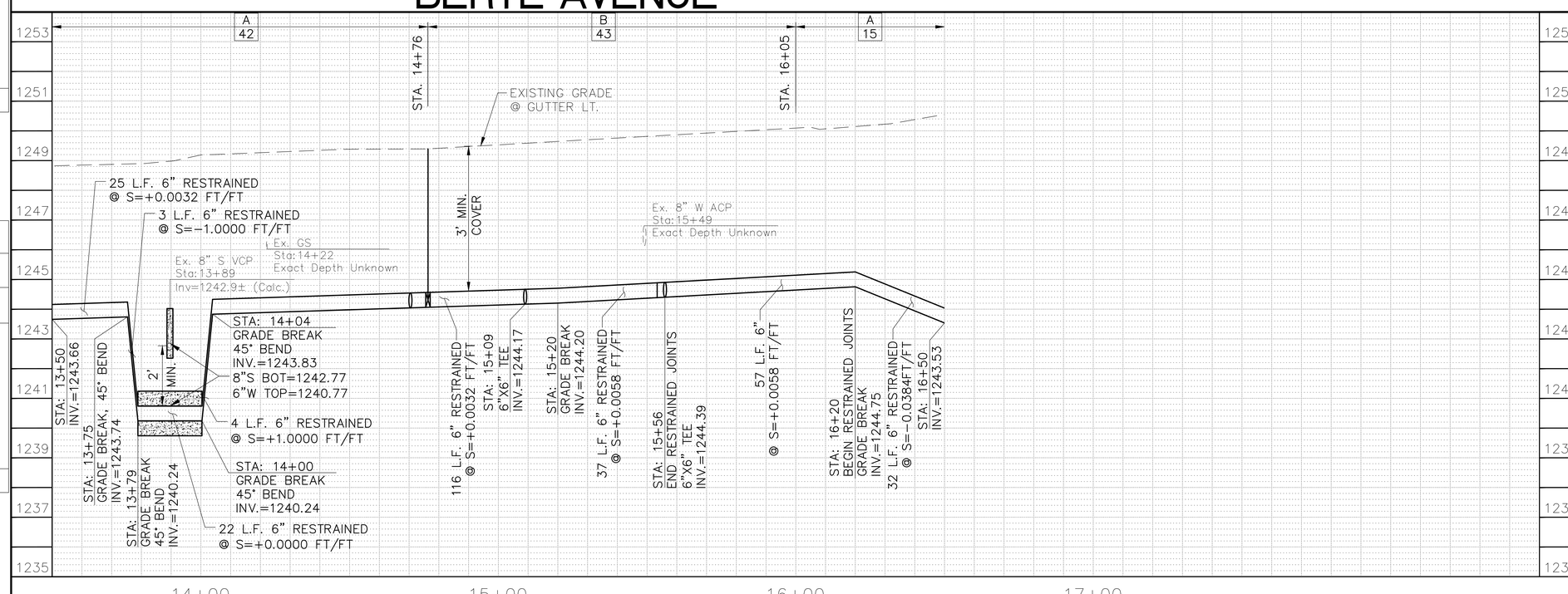
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_BERYL AVENUE (E)_1000–1350.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





City of Phoenix
N

Registered Professional Engineer (Civil) CERTIFICATE NO. 64944 BRIAN M. WILCOX Date Signed 01/20/25 ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	30	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	16+50	1"	31

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BERYL DRIVE
STA. 13+50 - STA. 16+50
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	30	83

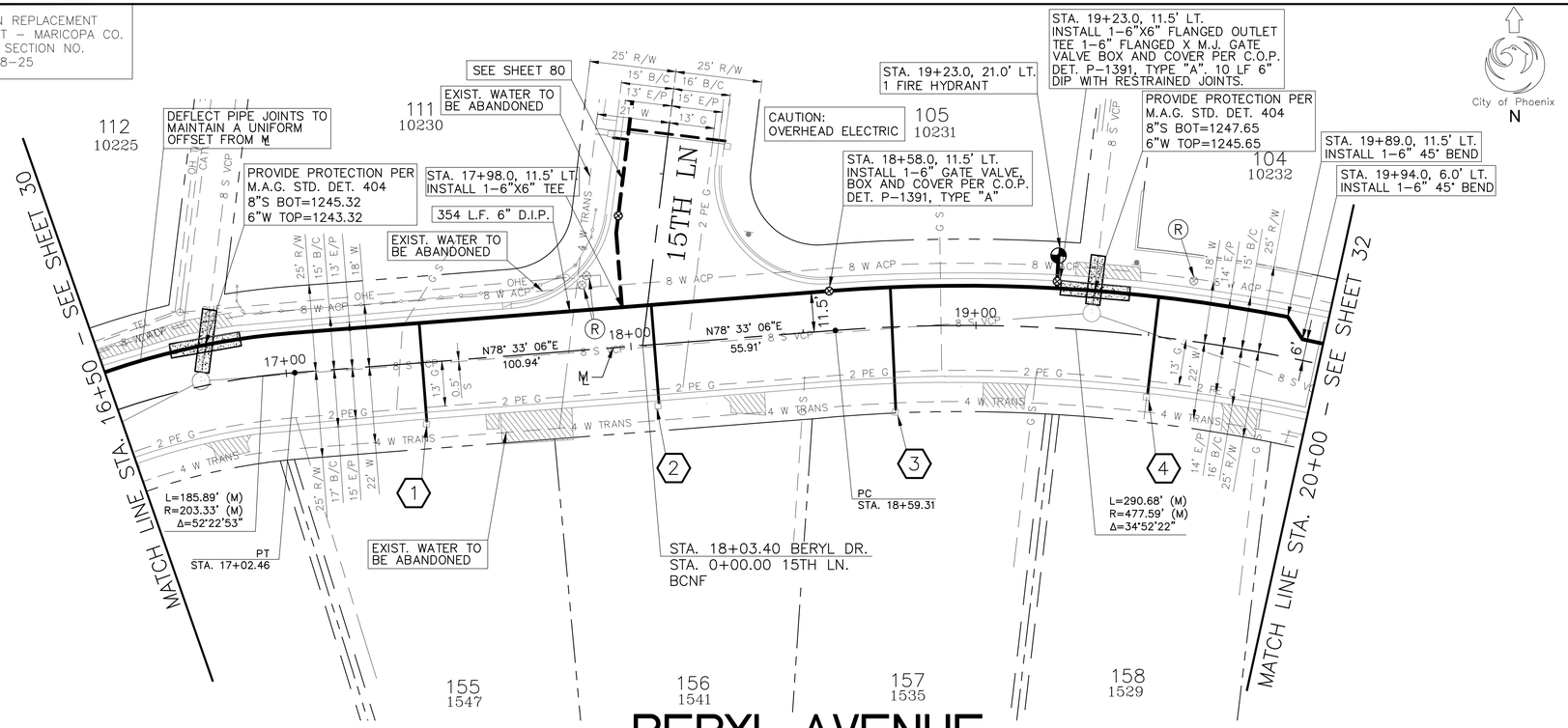
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

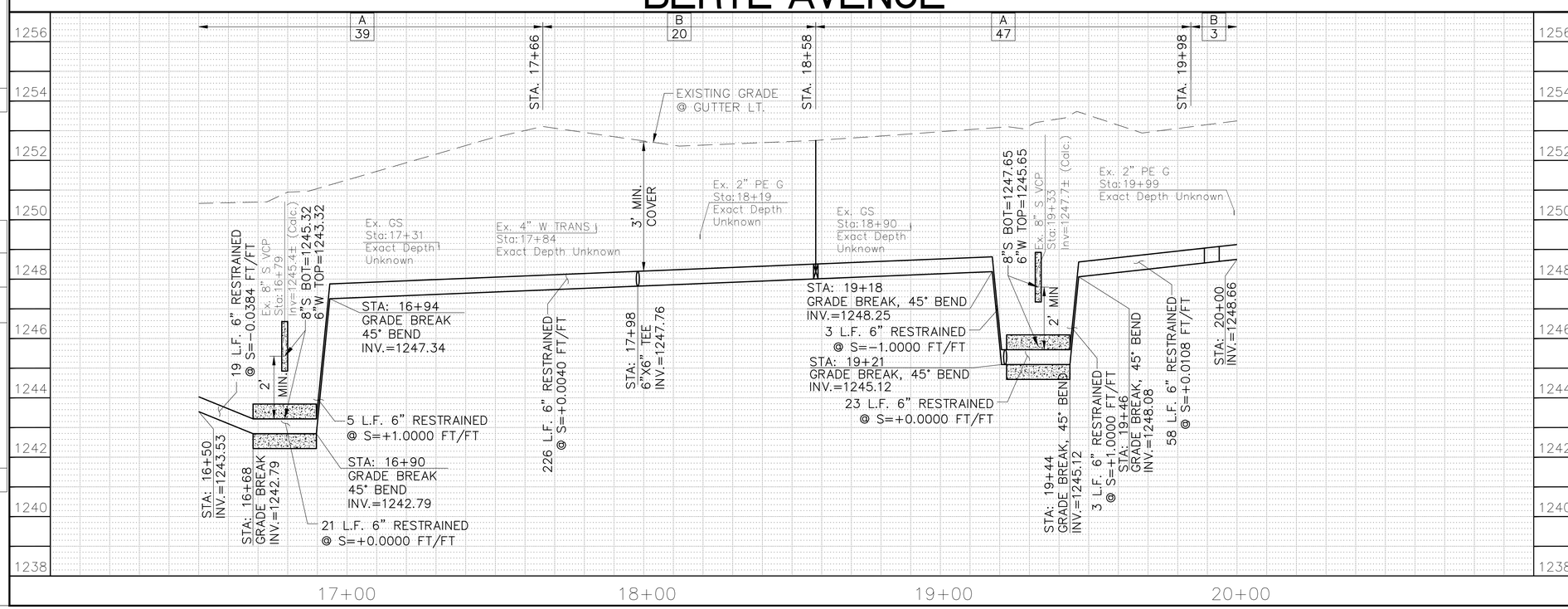
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115172g – wmr – mountain view & 15th ave\da_production\Cadd\09_Water\WS85509031_BERYL AVENUE (E)_1350–1650.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	31	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	17+39	1"	31
2	18+07	1"	31
3	18+76	1"	38
4	19+52	1"	31

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BERYL DRIVE
STA. 16+50 - STA. 20+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	31	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

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

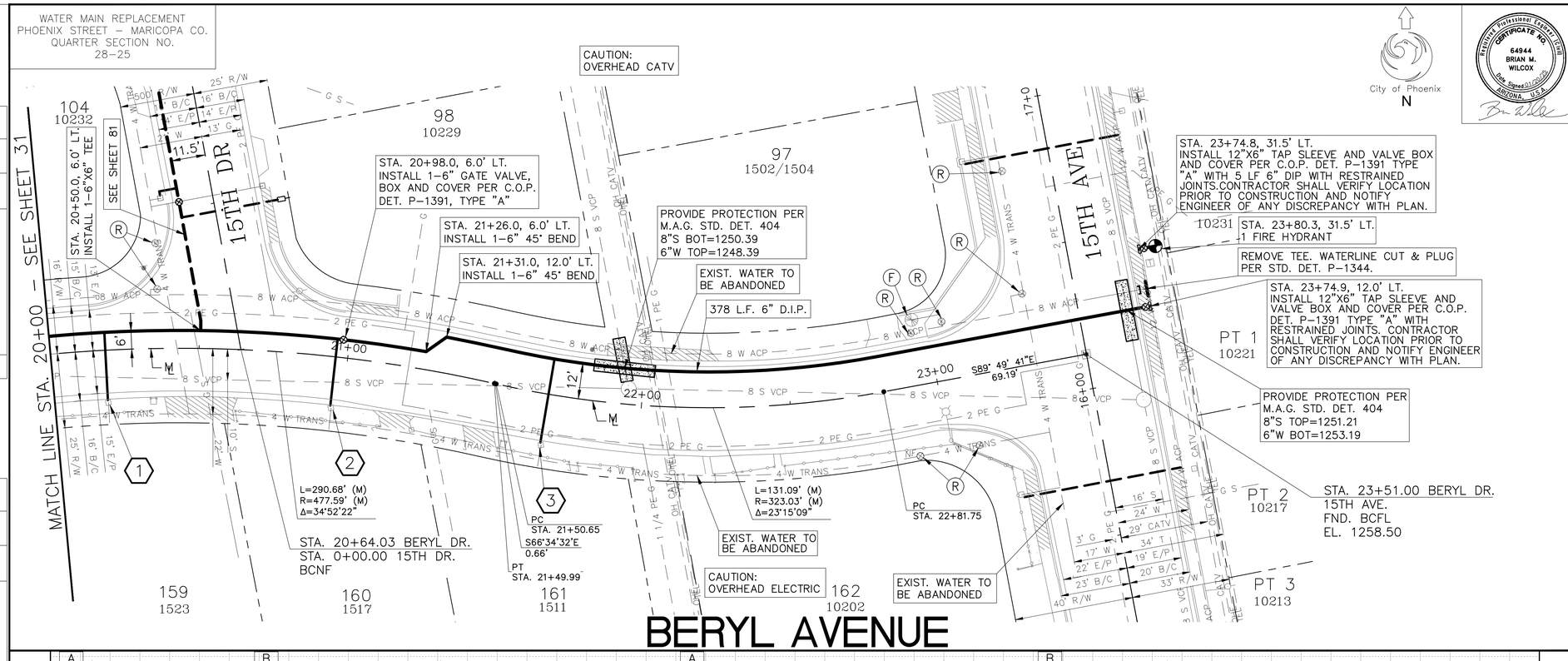
NO.	DESCRIPTION	REV BY	CKD BY	DATE

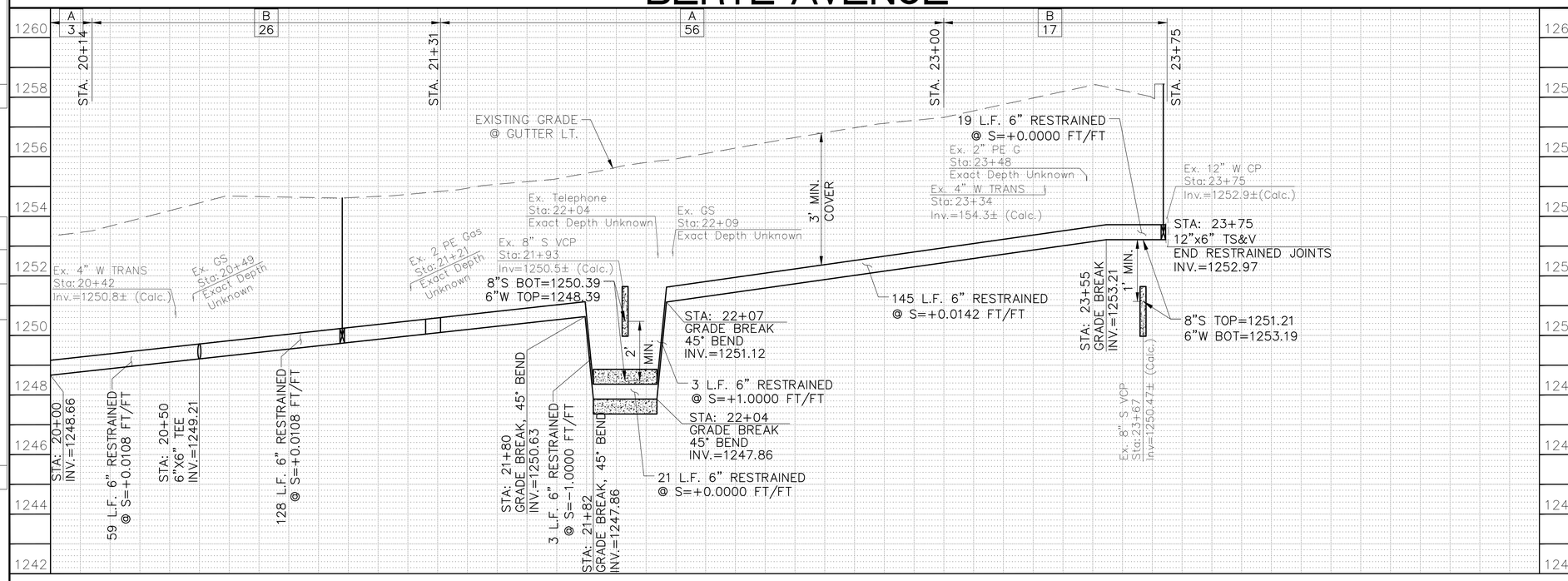
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115172g – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_BERYL AVENUE (E)_1650–2000.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	32	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	20+18	1"	26
2	20+96	1"	25
3	21+69	1"	31

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

BERYL DRIVE
STA. 20+00 - END
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	32	83

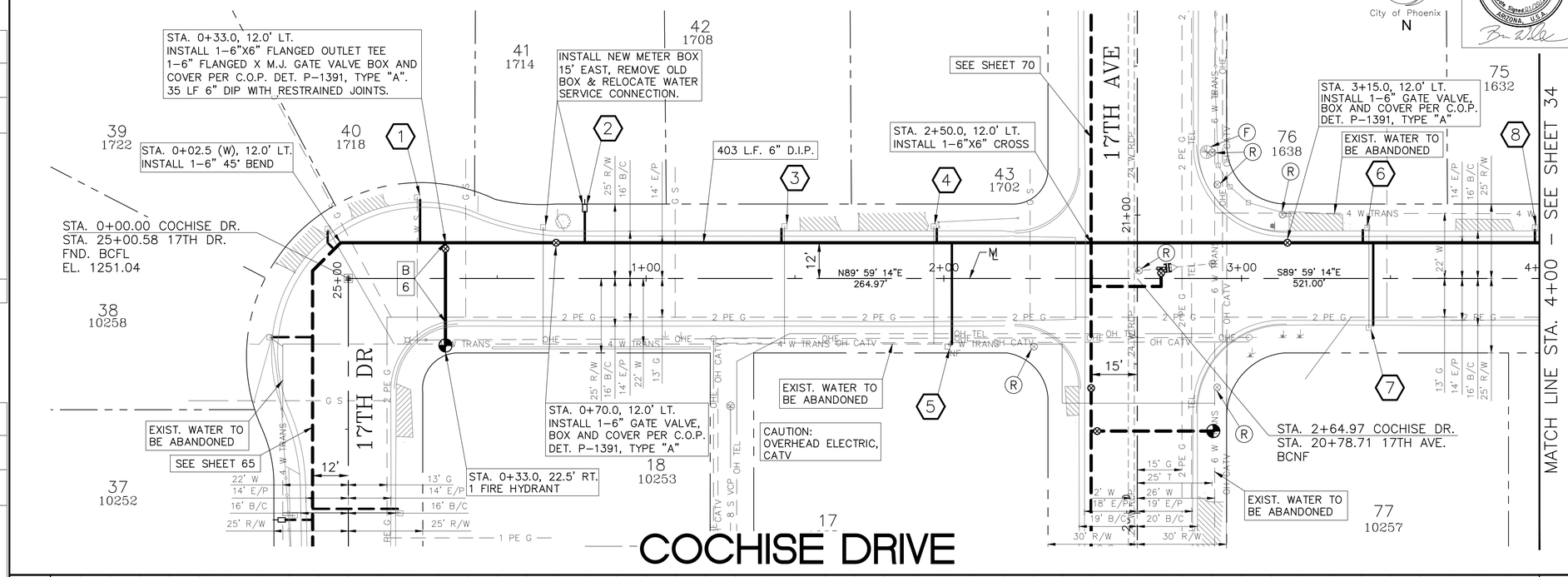
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

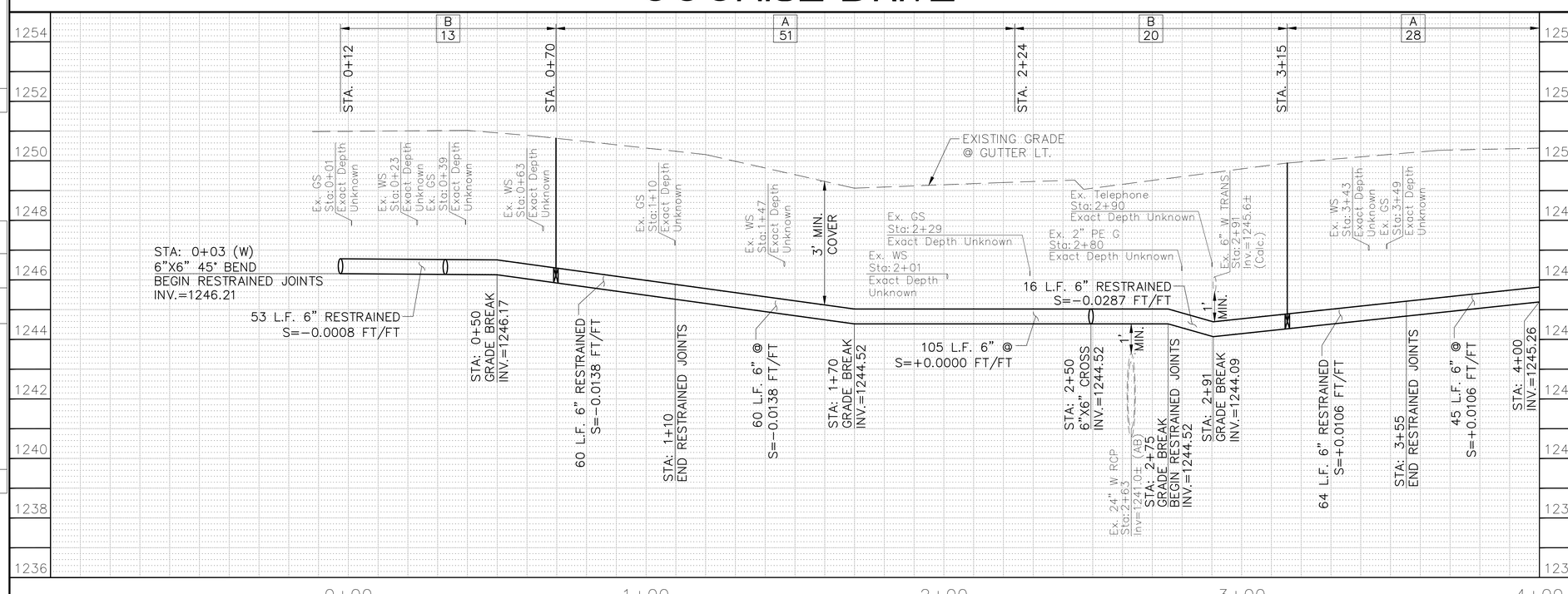
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_BERYL AVENUE_(E)_2000–END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	33	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+24	1"	17
2	0+80	1"	13
3	1+45	1"	8
4	1+98	1"	8
5	2+03	1"	37
6	3+41	1"	7
7	3+44	1"	31
8	3+98	1"	7

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

COCHISE DRIVE
STA. 0+00 - STA. 4+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	33	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

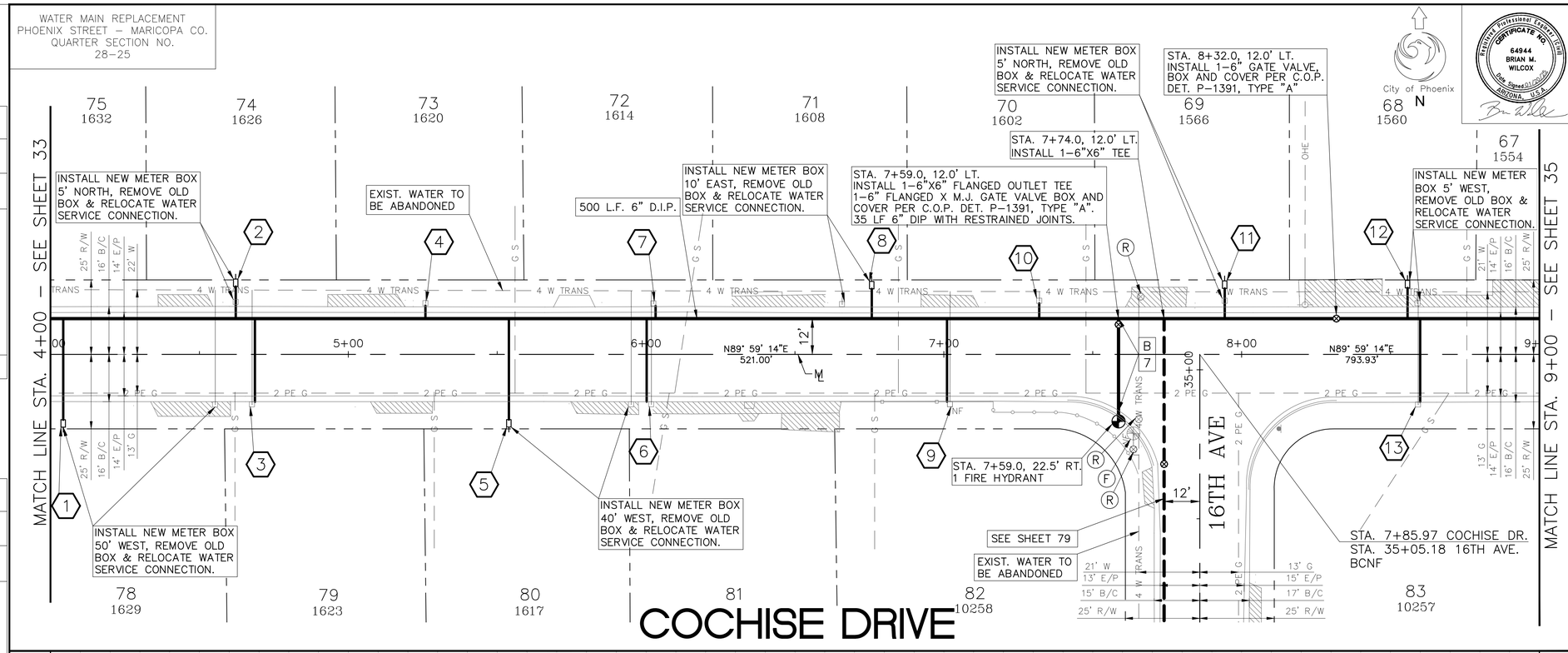
NO.	DESCRIPTION	REV BY	CKD BY	DATE

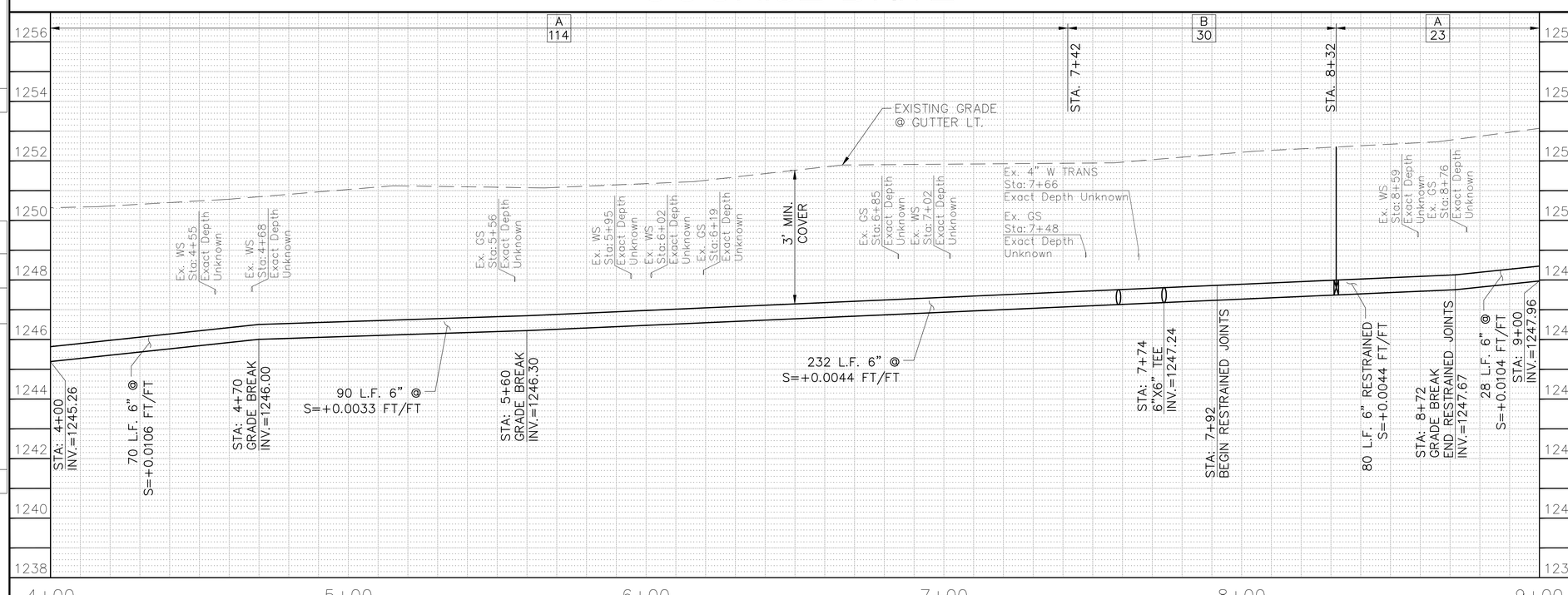
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_COCHISE DRIVE_000-400.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	34	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	4+04	1"	37
2	4+62	1"	8
3	4+69	1"	31
4	5+26	1"	7
5	5+54	1"	37
6	6+00	1"	31
7	6+03	1"	7
8	6+76	1"	13
9	7+01	1"	31
10	7+32	1"	8
11	7+94	1"	8
12	8+54	1"	31
13	8+58	1"	13

NOTE:
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AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

REGISTRATION NUMBER

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ARIZONA811
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www.entellus.com

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

COCHISE DRIVE
STA. 4+00 - STA. 9+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	34	83

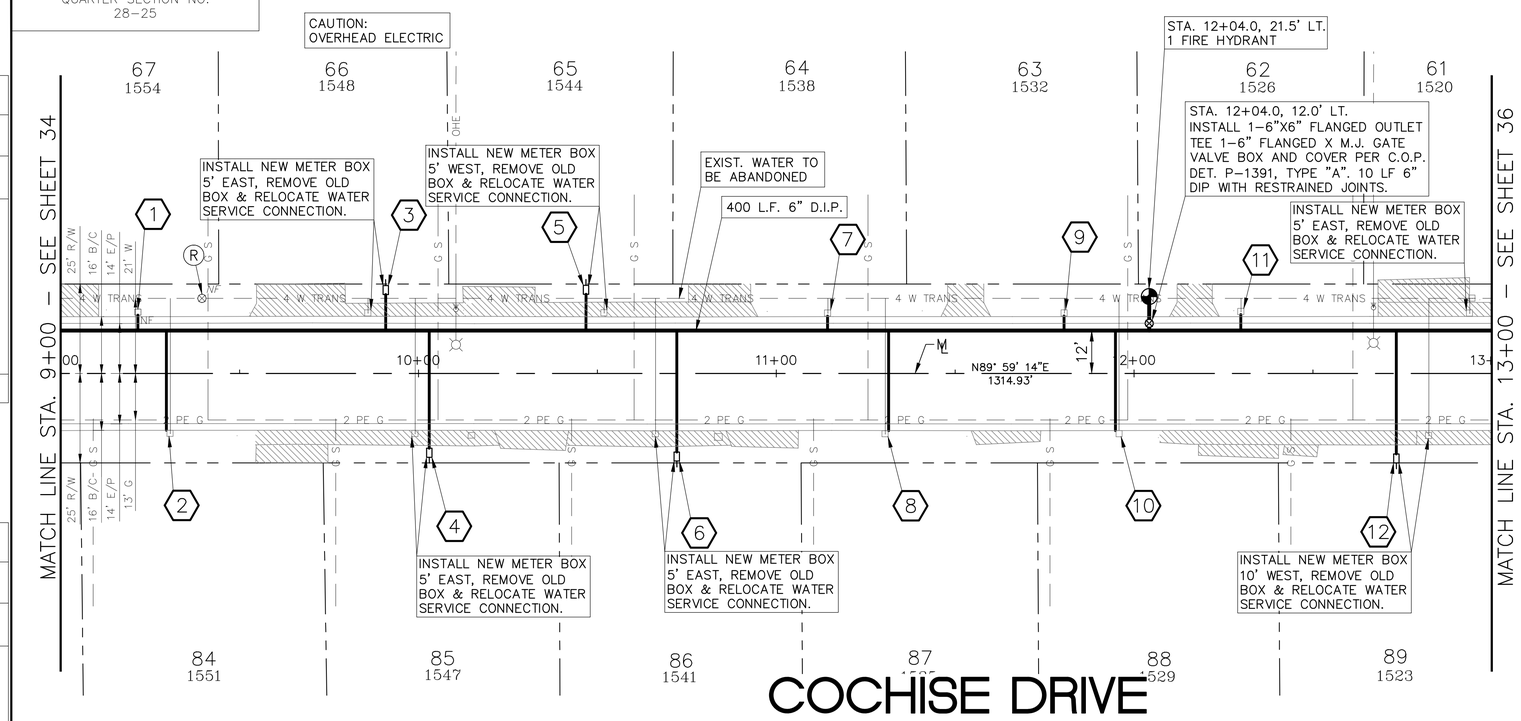
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_COCHISE_DRIVE_400-900.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	35	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	9+22	1"	7
2	9+30	1"	31
3	9+91	1"	13
4	10+03	1"	36
5	10+47	1"	13
6	10+67	1"	37
7	11+14	1"	7
8	11+31	1"	31
9	11+80	1"	7
10	11+95	1"	31
11	12+30	1"	7
12	12+73	1"	37

NOTE:
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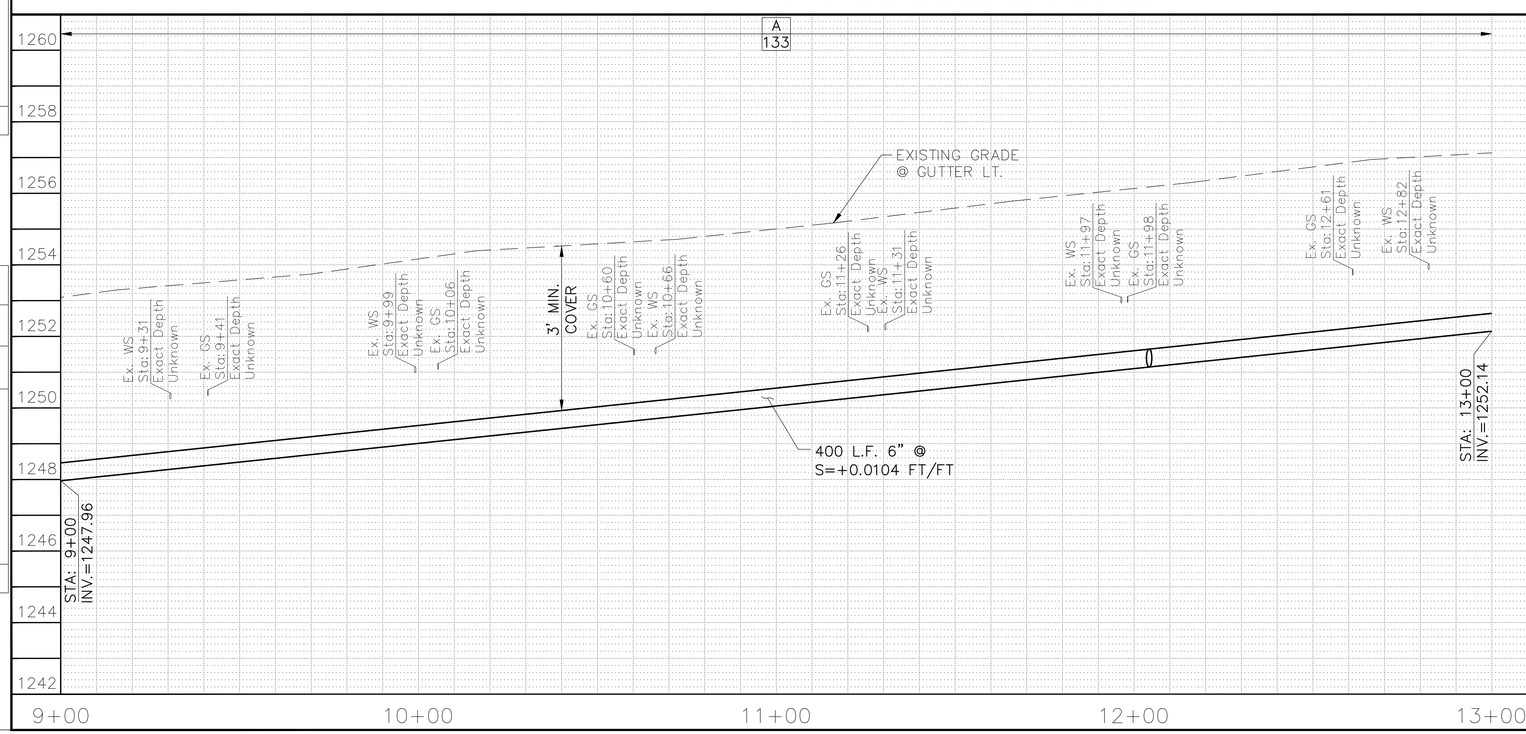

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

COCHISE DRIVE
STA. 9+00 - STA. 13+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	35	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

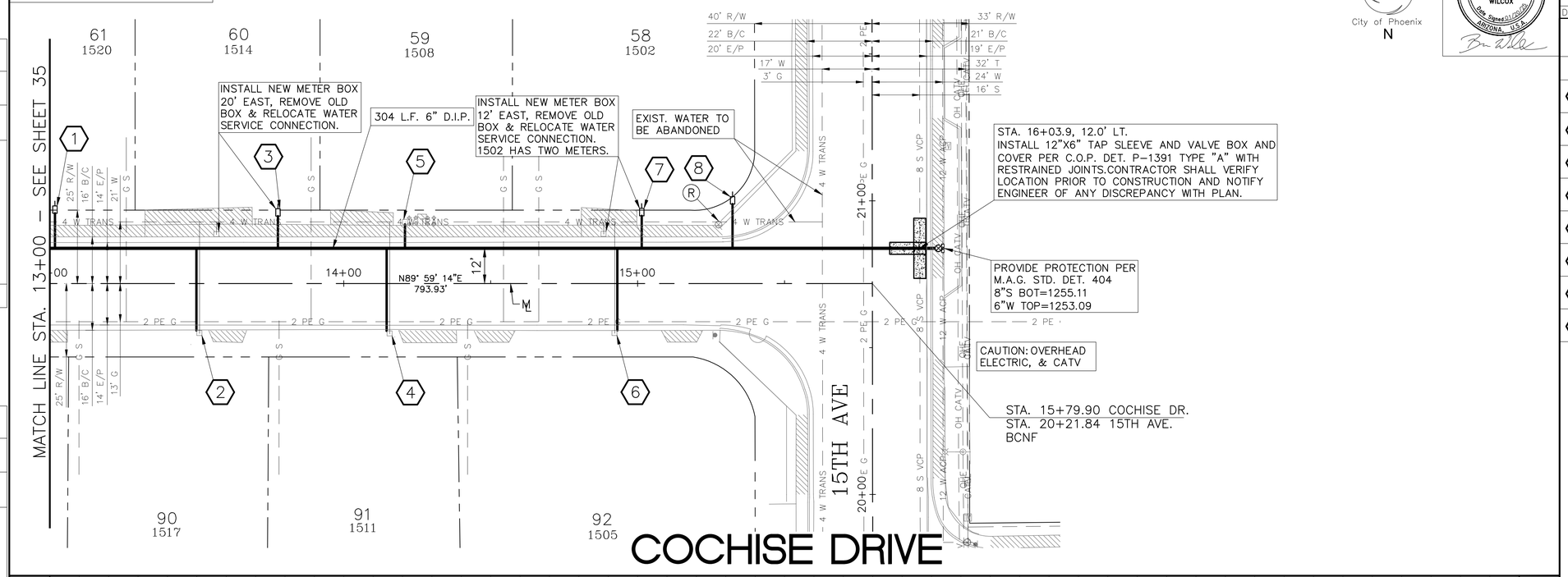
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

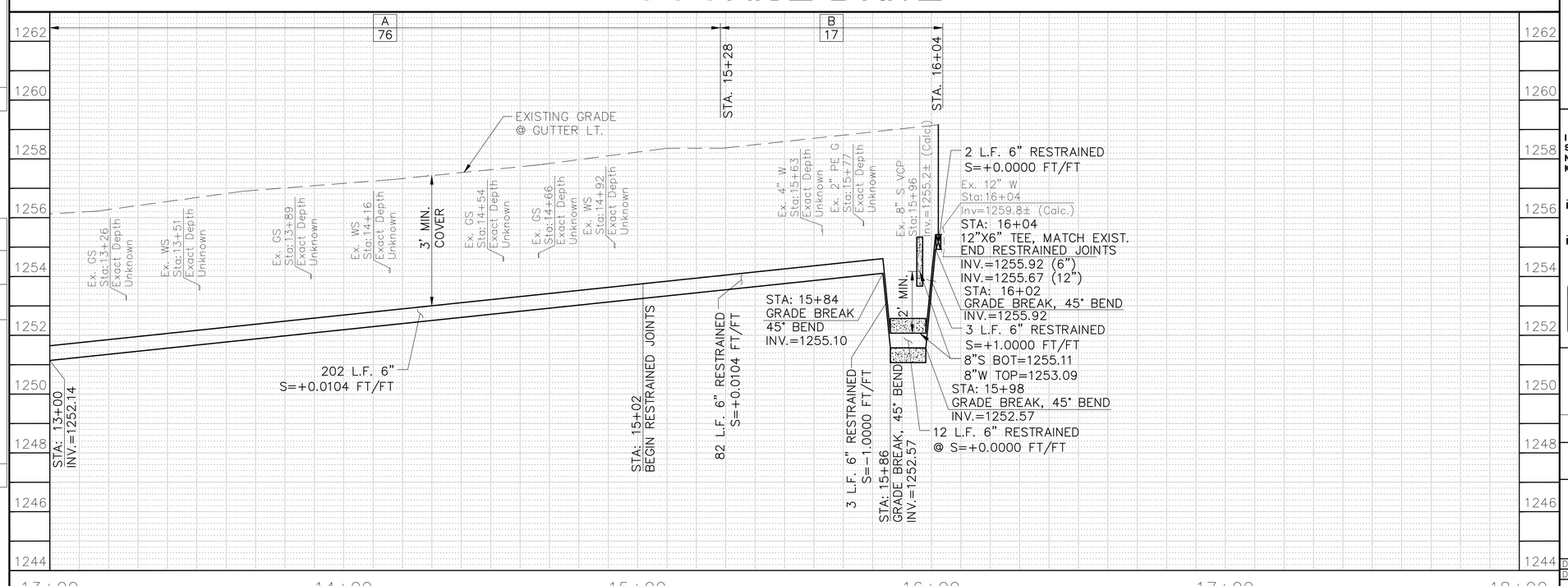
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_COCHISE_DRIVE_900-1300.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	36	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	13+02	1"	15
2	13+50	1"	31
3	13+78	1"	14
4	14+15	1"	31
5	14+21	1"	11
6	14+93	1"	31
7	15+02	1"	14
8	15+32	1"	18

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

COCHISE DRIVE
STA. 13+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	36	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

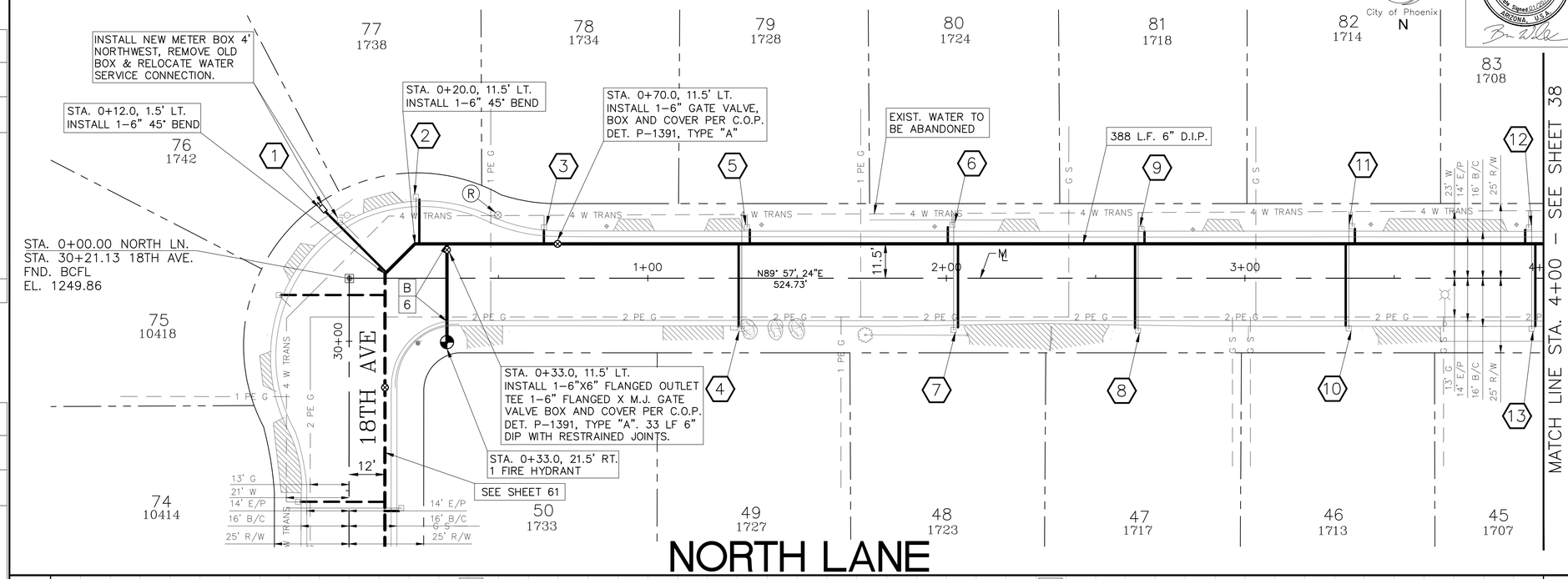
NO.	DESCRIPTION	REV BY	CKD BY	DATE

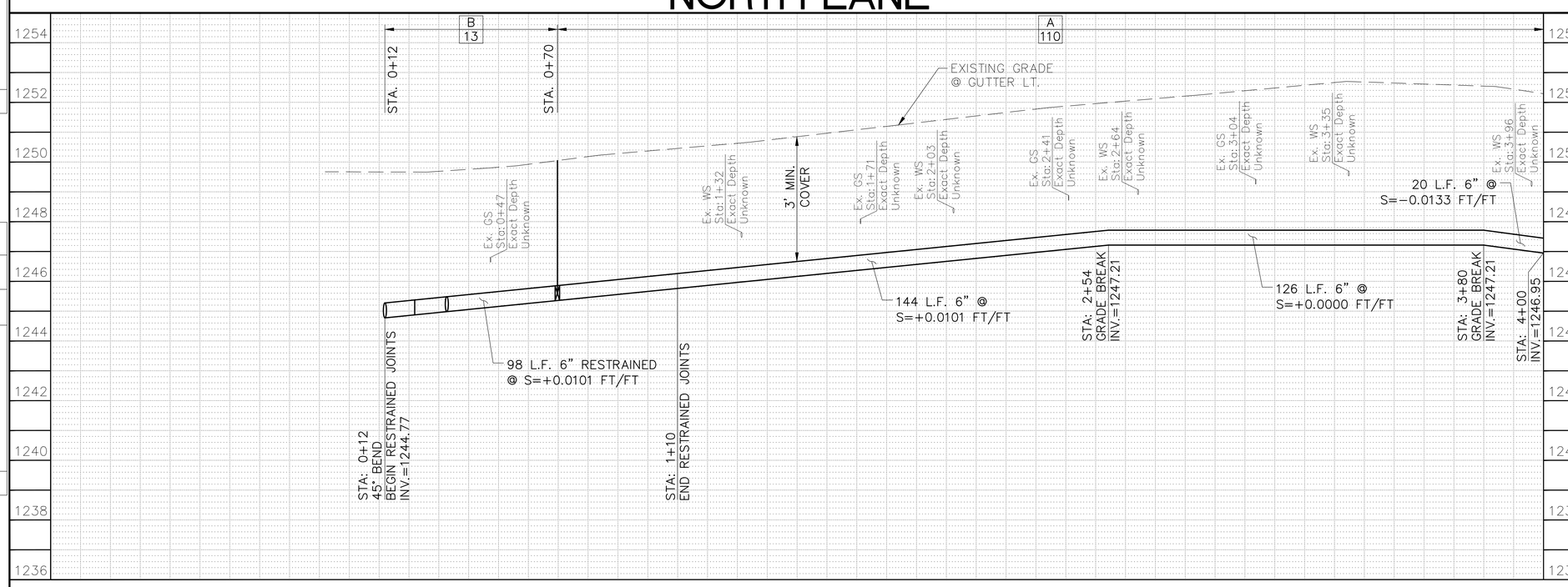
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_COCHISE DRIVE_1300–END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	37	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+12	1"	32
2	0+21	1"	18
3	0+65	1"	8
4	1+30	1"	31
5	1+34	1"	8
6	2+01	1"	9
7	2+04	1"	31
8	2+63	1"	31
9	2+66	1"	7
10	3+34	1"	31
11	3+37	1"	8
12	3+94	1"	8
13	3+97	1"	31

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

NORTH LANE
STA. 0+00 - STA. 4+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	37	83

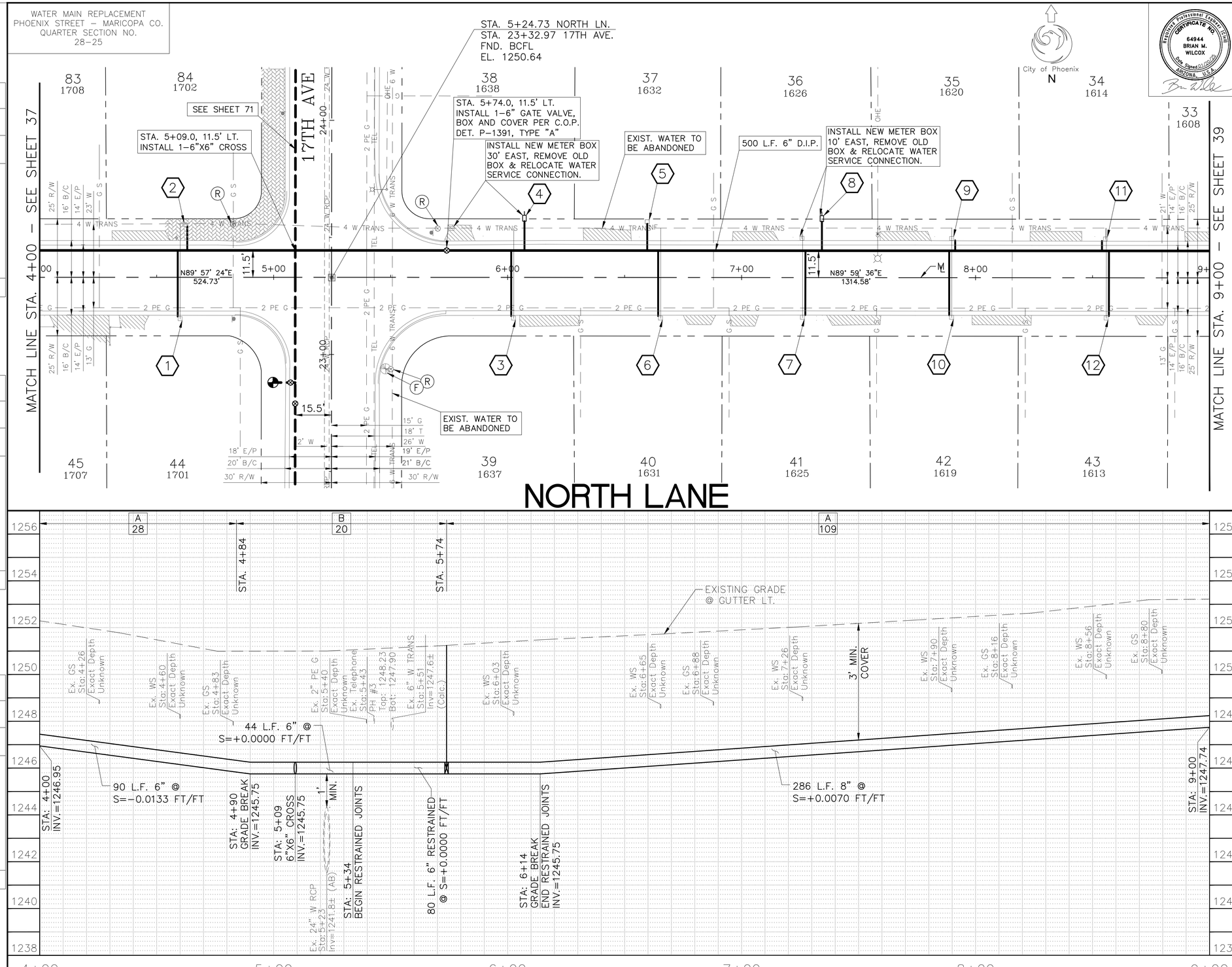
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_NORTH LANE_000-400.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	38	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	4+59	1"	31
2	4+63	1"	13
3	6+02	1"	31
4	6+07	1"	16
5	6+60	1"	14
6	6+64	1"	31
7	7+27	1"	31
8	7+34	1"	15
9	7+82	1"	7
10	7+89	1"	31
11	8+54	1"	7
12	8+57	1"	31

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

NORTH LANE
STA. 4+00 - STA. 9+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	38	83

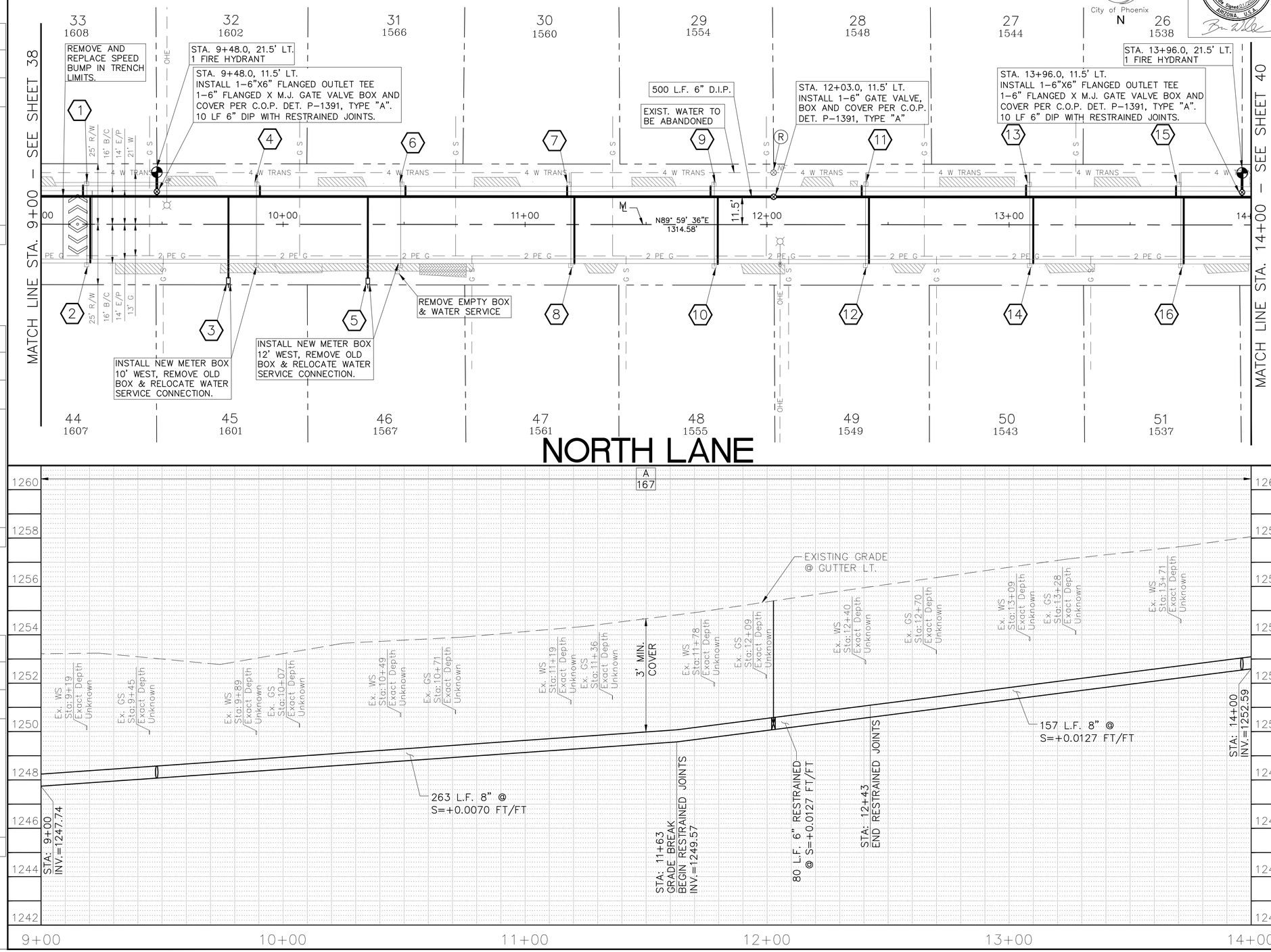
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115172a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_NORTH LANE_400-900.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	39	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	9+17	1"	7
2	9+20	1"	30
3	9+87	1"	37
4	9+90	1"	7
5	10+44	1"	37
6	10+51	1"	7
7	11+17	1"	7
8	11+20	1"	31
9	11+77	1"	7
10	11+80	1"	31
11	12+39	1"	7
12	12+42	1"	30
13	13+07	1"	8
14	13+10	1"	30
15	13+69	1"	7
16	13+72	1"	30

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

NORTH LANE
STA. 9+00 - STA. 14+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	39	83

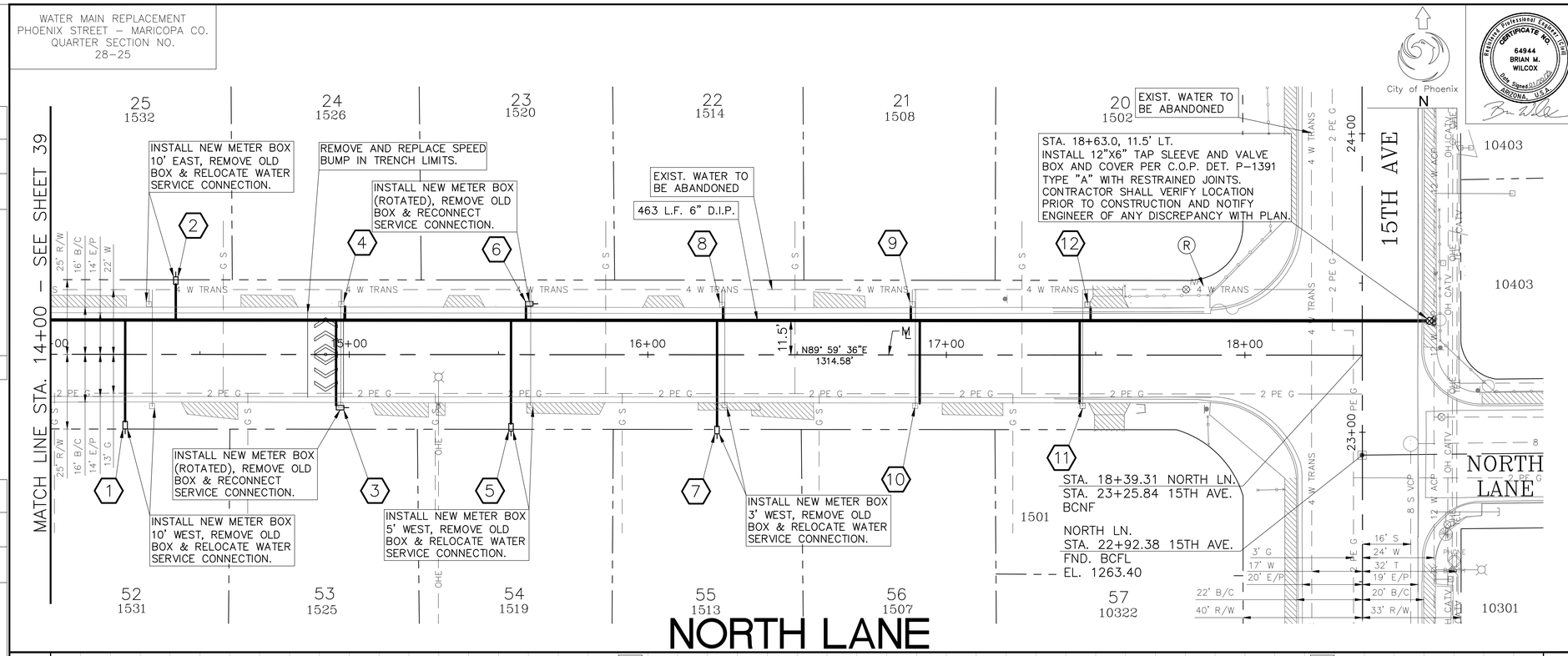
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

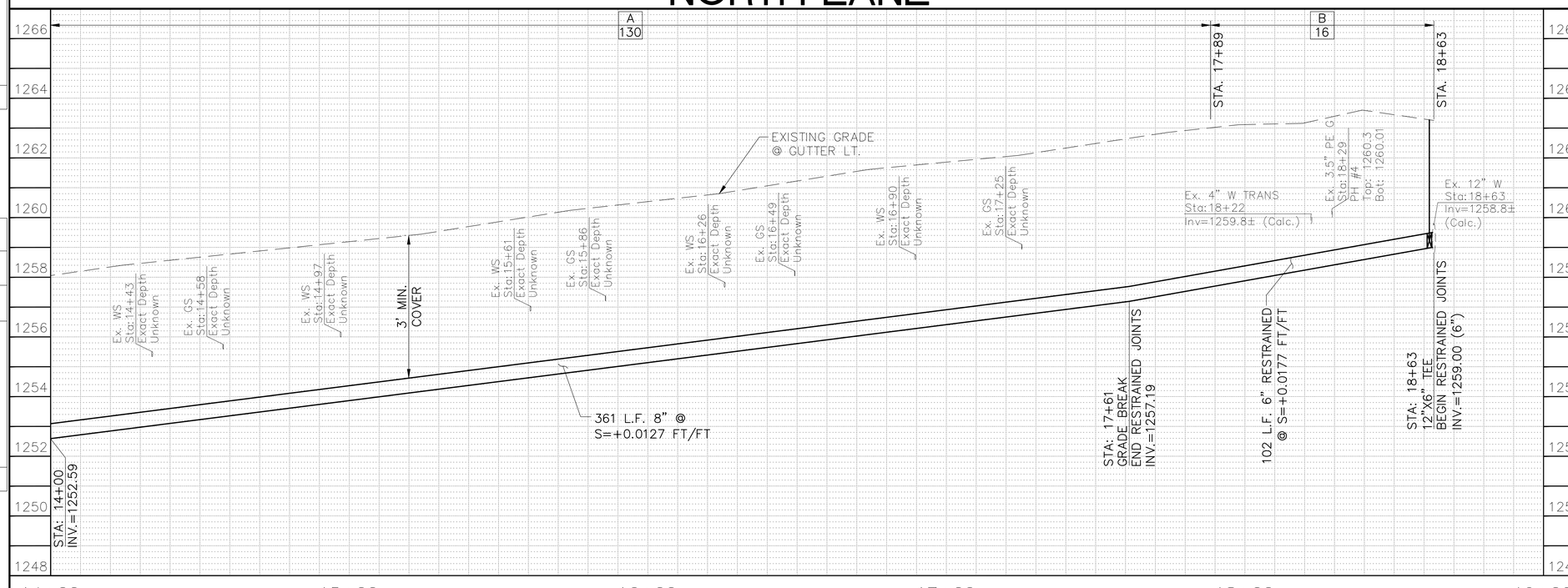
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_NORTH LANE_900-1400.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	40	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS STD DET P-1342

NO.	STATION	SIZE	LF
1	14+25	1"	37
2	14+40	1"	15
3	14+96	1"	31
4	14+99	1"	8
5	15+53	1"	38
6	15+59	1"	8
7	16+23	1"	38
8	16+24	1"	7
9	16+88	1"	8
10	16+91	1"	31
11	17+45	1"	31
12	17+48	1"	7

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

NORTH LANE
STA. 14+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	40	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115172a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_NORTH LANE_1400-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

STA. 1+08.0(W),16.0' LT.
INSTALL 12"X 12" TAP SLEEVE AND VALVE BOX AND COVER PER C.O.P. DET. P–1391 TYPE "A" WITH RESTRAINED JOINTS.CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

REFER TO CITY OF PHOENIX GENERAL REQUIREMENTS FOR WORKING AROUND PCCP. SEE WSD MANUAL SECTION IV(D)(14).

PROVIDE PROTECTION PER M.A.G. STD. DET. 404
12"W BOT=1247.78
12"S TOP=1231.22

PROVIDE PROTECTION PER M.A.G. STD. DET. 404
10"S TOP=1246.32
12"W BOT=1247.67

WATERLINE CUT & PLUG PER STD. DET. P–1343.

STA. 10+36.0, 16.0' LT.
INSTALL 1–12" 45° BEND

STA. 12+94.60 (W)
PEORIA AVE.
FND. BCFL
EL. 1250.24

STA. 0+82.0, 27.0' RT.
INSTALL 1–12"X 6" FLANGED OUTLET TEE
1–6"FLANGED X M.J. GATE VALVE BOX AND COVER PER C.O.P. DET. P–1391, TYPE "A".
13 LF 6" DIP WITH RESTRAINED JOINTS.

STA. 0+85.0, 27.0' RT.
INSTALL 1–12" GATE VALVE, BOX AND COVER PER C.O.P. DET. P–1391, TYPE "A"

388 L.F. 12" D.I.P.

STA. 0+00.00 PEORIA AVE.
STA. 26+33.41 19TH AVE.
FND. BCHH
EL. 1253.91

STA. 0+82.0, 39.5' RT.
1 FIRE HYDRANT

STA. 0+80.0, 27.0' RT.
INSTALL 1–12" 45° BEND

PROVIDE PROTECTION PER M.A.G. STD. DET. 404
8"S TOP=1239.60
12"W BOT=1249.46

VACANT
1849

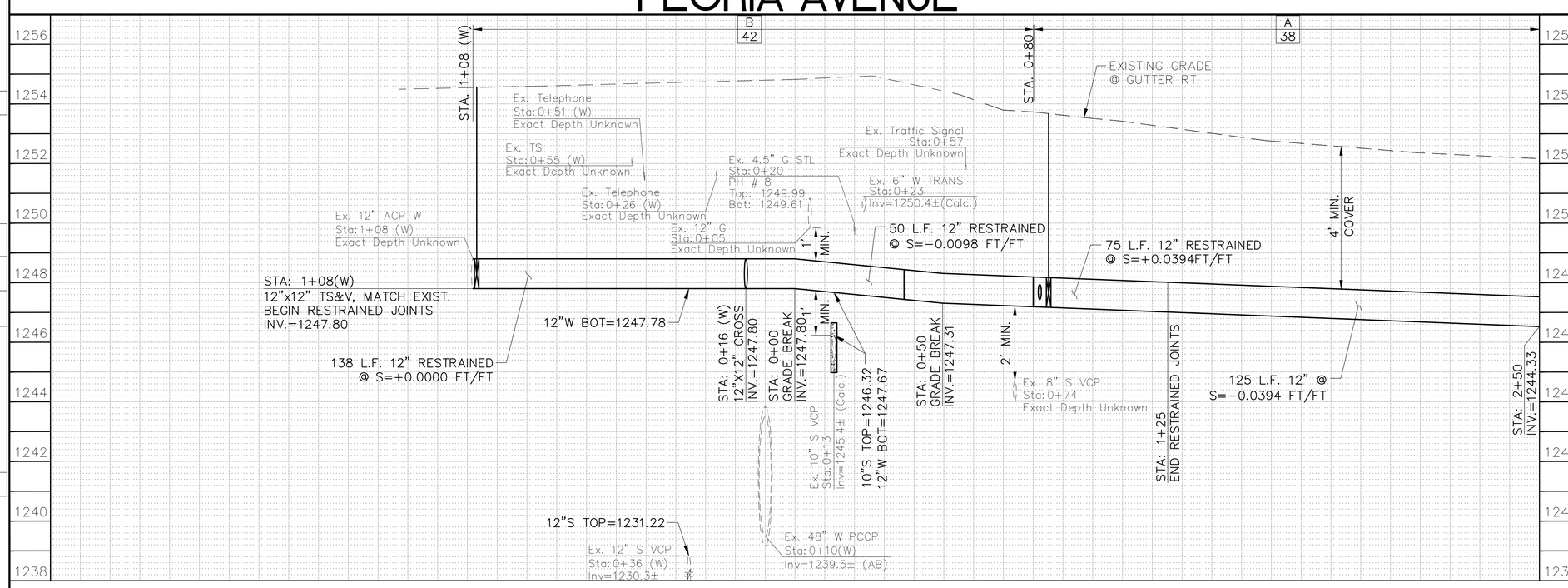
EXIST. WATER TO BE ABANDONED

CAUTION: OVERHEAD ELECTRIC, CATV

SEE SHEET 52

MATCH LINE STA. 2+50 – SEE SHEET 42

PEORIA AVENUE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	41	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	1+49	1"	39

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:
RELOCATED WATER METER LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATIONS SHALL BE COORDINATED WITH THE CITY OF PHOENIX.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

REGISTRATION NUMBER

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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www.entellus.com

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PEORIA AVENUE
STA. 0+00 - STA. 2+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	41	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_PEORIA AVE_000-250.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

STA. 6+20.9, 52.8' LT.
INSTALL 1–6" SWING CONNECTION AND WATERLINE CUT & PLUG PER STD. DET. P–1343, SEE DETAIL SHEET 83. INSTALL THRUST BLOCK ON NON–RESTRAINED WATER LINE PER M.A.G. STD. DET. 380. 32 LF 6" DIP WITH RESTRAINED JOINTS. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

STA. 6+13.0, 71.3' LT.
INSTALL 1–6" SWING CONNECTION AND WATERLINE CUT & PLUG PER STD. DET. P–1343, SEE DETAIL SHEET 83. INSTALL THRUST BLOCK ON NON–RESTRAINED WATER LINE PER M.A.G. STD. DET. 380. 55 LF 6" DIP WITH RESTRAINED JOINTS. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

STA. 6+31.0, 45.6' LT.
INSTALL 1–6"X6" FLANGED OUTLET TEE 1–6" FLANGED X M.J. GATE VALVE BOX AND COVER PER C.O.P. DET. P–1391, TYPE "A". 14 LF 6" DIP WITH RESTRAINED JOINTS.

STA. 6+31.0, 52.6' LT.
INSTALL 1–6" 45° BEND

STA. 6+45.0, 45.5' LT.
1 FIRE HYDRANT

STA. 3+14.9, 23.0' LT.
INSTALL 8"X6" TAP SLEEVE AND VALVE BOX AND COVER PER C.O.P. DET. P–1391 TYPE "A" WITH RESTRAINED JOINTS. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

STA. 6+15.7, 15.7' LT. INSTALL 1–8"X8" TEE. WATERLINE CUT & PLUG PER STD. DET. P–1344. 45 LF 8" DIP WITH RESTRAINED JOINTS.

STA. 6+14.1, 15.7' LT
INSTALL 1–8" 90° BEND.

STA. 6+31.0, 15.7' LT.
INSTALL 8"X6" TAP SLEEVE AND VALVE BOX AND COVER PER C.O.P. DET. P–1391 TYPE "A" WITH RESTRAINED JOINTS. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

STA. 3+07.97 PEORIA AVE.
18TH DR.
FND. BCFL, EL. 1252.44

STA. 6+15.89 PEORIA AVE.
18TH AVE.
FND. BCFL
EL. 1251.45

CAUTION: OVERHEAD ELECTRIC, CATV

PROVIDE PROTECTION PER M.A.G. STD. DET. 404

STA. 6+60.0, 17.0' RT.
INSTALL 1–12" GATE VALVE, BOX AND COVER PER C.O.P. DET. P–1391, TYPE "A"

STA. 4+27.2, 69.0' RT.
INSTALL 1–6" SWING CONNECTION AND WATERLINE CUT & PLUG PER STD. DET. P–1343, SEE DETAIL SHEET 83. INSTALL THRUST BLOCK ON NON–RESTRAINED WATER LINE PER M.A.G. STD. DET. 380. 1–12"x6" FLANGE OUTLET TEE, 1–6" VALVE, BOX AND COVER PER C.O.P. DET. P–1391 TYPE "A". 44 LF 6" DIP WITH RESTRAINED JOINTS. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

506 L.F. 12" D.I.P.

EXIST. WATER TO BE ABANDONED

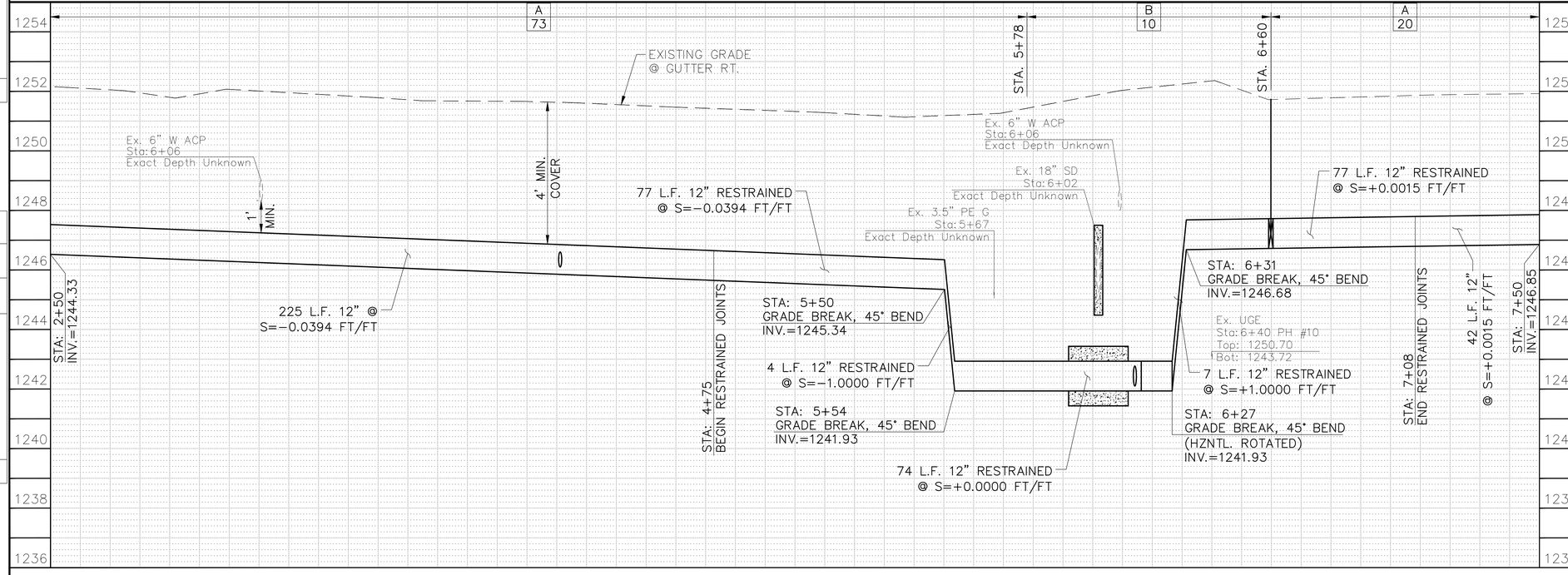
STA. 6+16, 27.0' RT.
INSTALL 1–12" 45° BEND

STA. 6+25, 17.0' RT.
INSTALL 1–12" 45° BEND

MATCH LINE STA. 2+50 – SEE SHEET 41

MATCH LINE STA. 7+50 – SEE SHEET 43

PEORIA AVENUE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	42	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	3+70	1.5"	36
2	4+34	1"	38
3	6+38	1"	49
4	7+26	1"	49

NOTE:
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NOTE:
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AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PEORIA AVENUE
STA. 2+50 - STA. 7+50

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	42	83

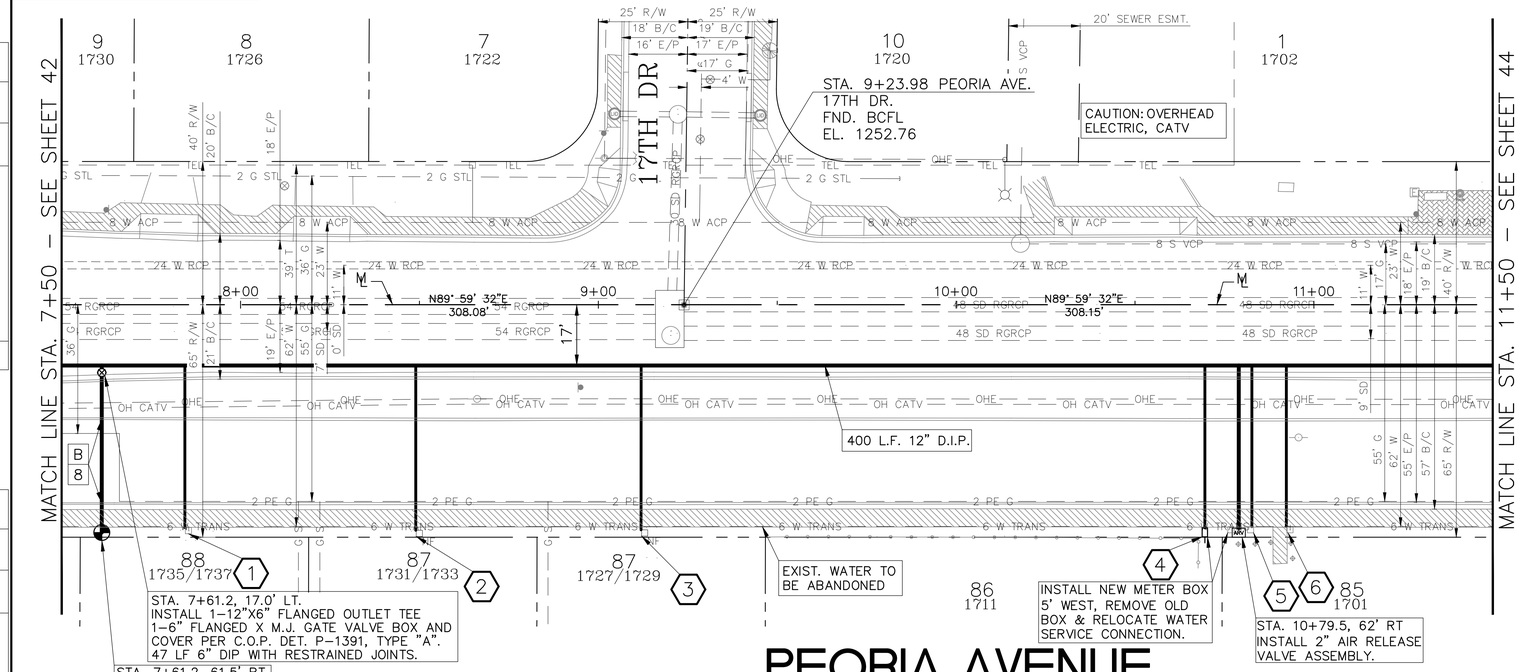
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

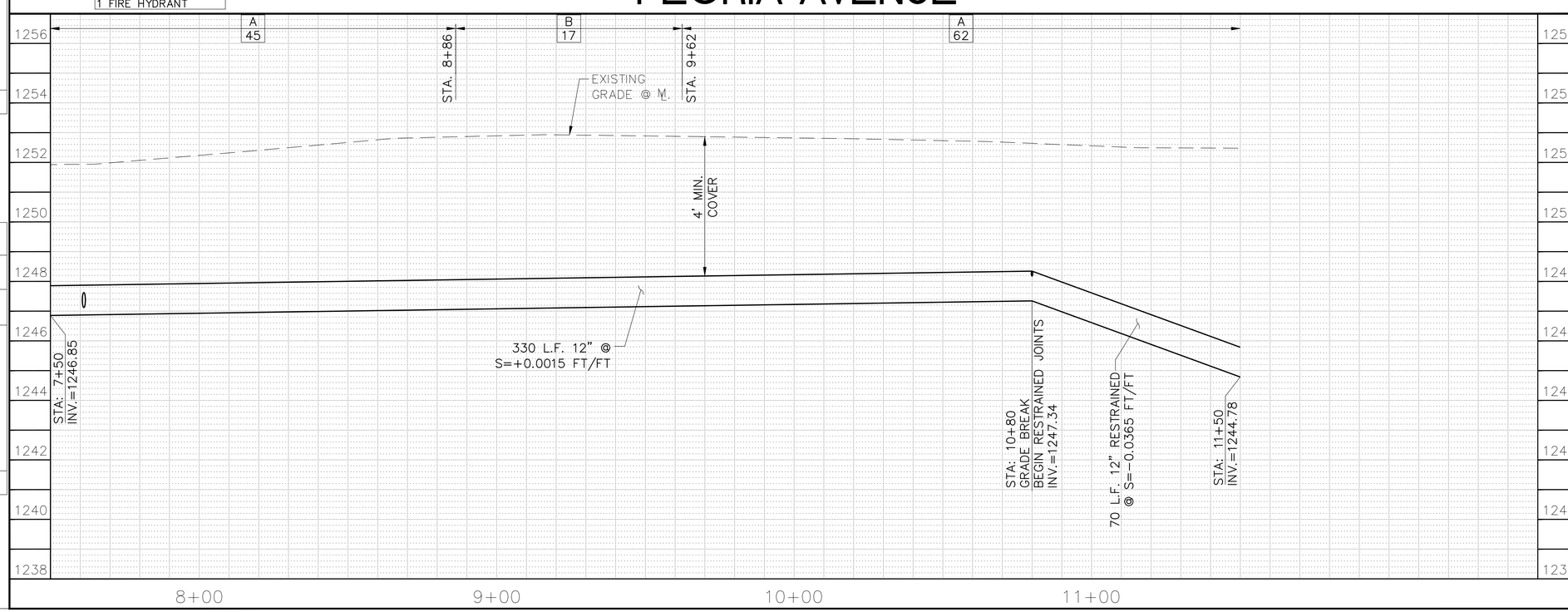
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_PEORIA AVE_250–750.dwg DATE: Jan. 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



PEORIA AVENUE



City of Phoenix
N

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	43	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	7+84	1"	48
2	8+49	1"	49
3	9+12	1"	49
4	10+70	1"	48
5	10+83	1"	48
6	10+92	1"	48

NOTE:
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NOTE:
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AS-BUILT CERTIFICATION

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PEORIA AVENUE
STA. 7+50 - STA. 11+50

WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025		
SCALE: 1" = 20' HORIZONTAL, 1" = 2' VERTICAL			43	83

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

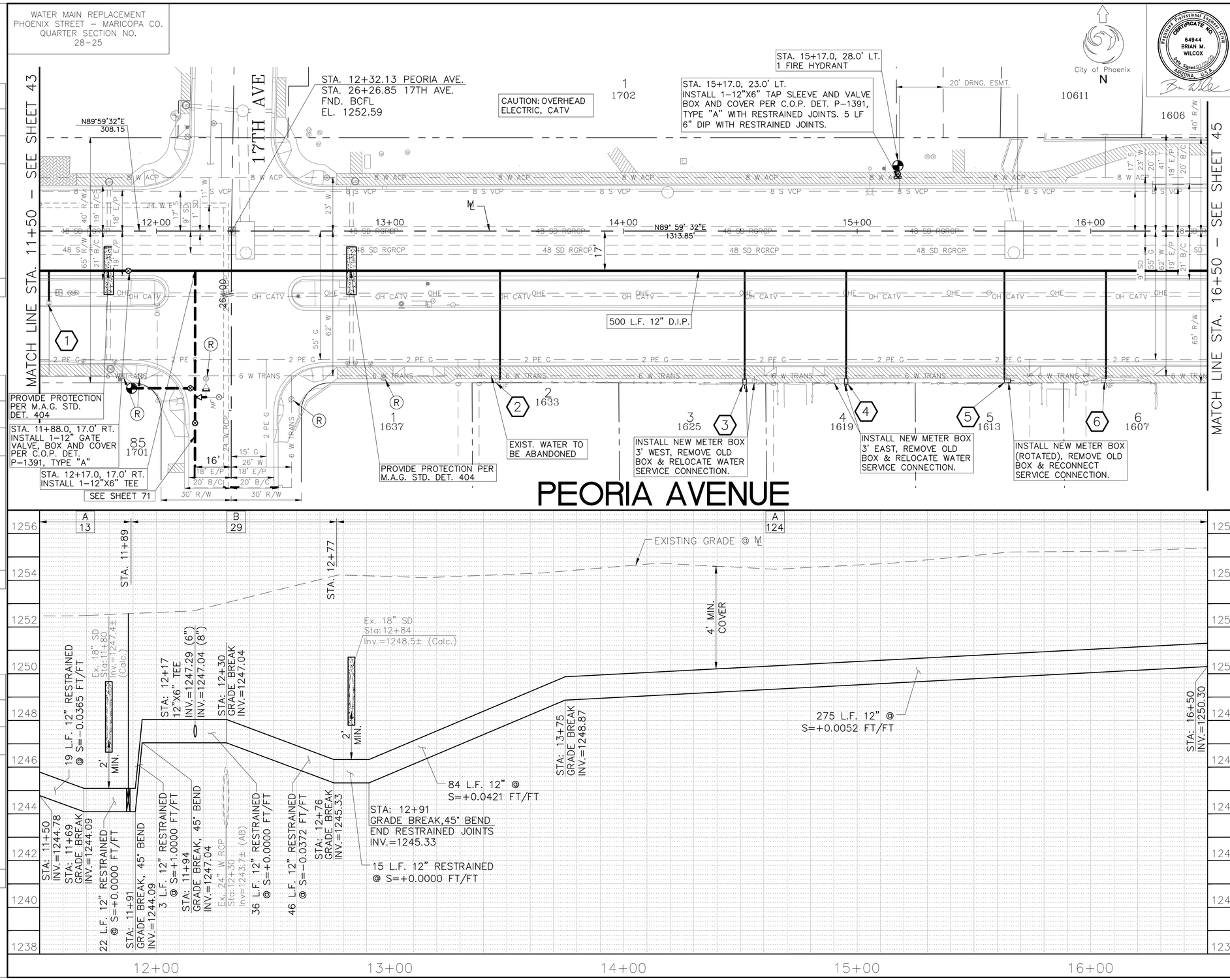
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d production\Cadd\09_Water\WS85509031_PEORIA AVE_750–1150.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	44	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS STD DET P–1342

NO.	STATION	SIZE	LF
1	11+54	1"	16
2	13+47	1"	49
3	14+52	1"	49
4	14+95	1"	49
5	15+63	1"	49
6	16+07	1"	49

NOTE:
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NOTE:
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AS-BUILT CERTIFICATION

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PEORIA AVENUE
STA. 11+50 - STA. 16+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	44	83

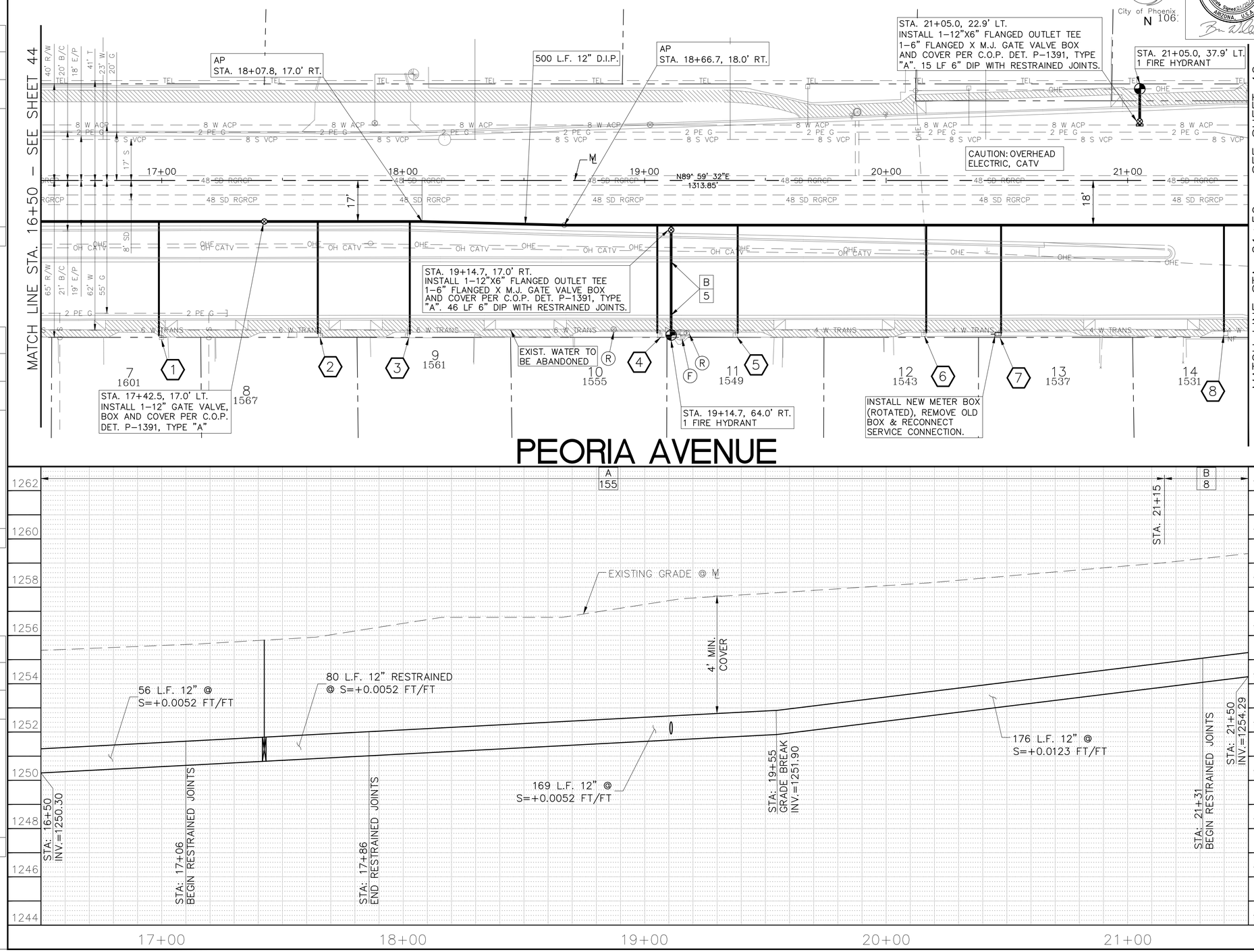
SCALE: 1" = 20' HORIZONTAL, 1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_PEORIA AVE_1150–1650.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	45	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	16+99	1"	50
2	17+65	1"	49
3	18+03	1"	50
4	19+05	1"	48
5	19+39	1"	48
6	20+17	1"	47
7	20+48	1"	48
8	21+40	1"	47

NOTE:
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NOTE:
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AS-BUILT CERTIFICATION

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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PEORIA AVENUE
STA. 16+50 - STA. 21+50

WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	45	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

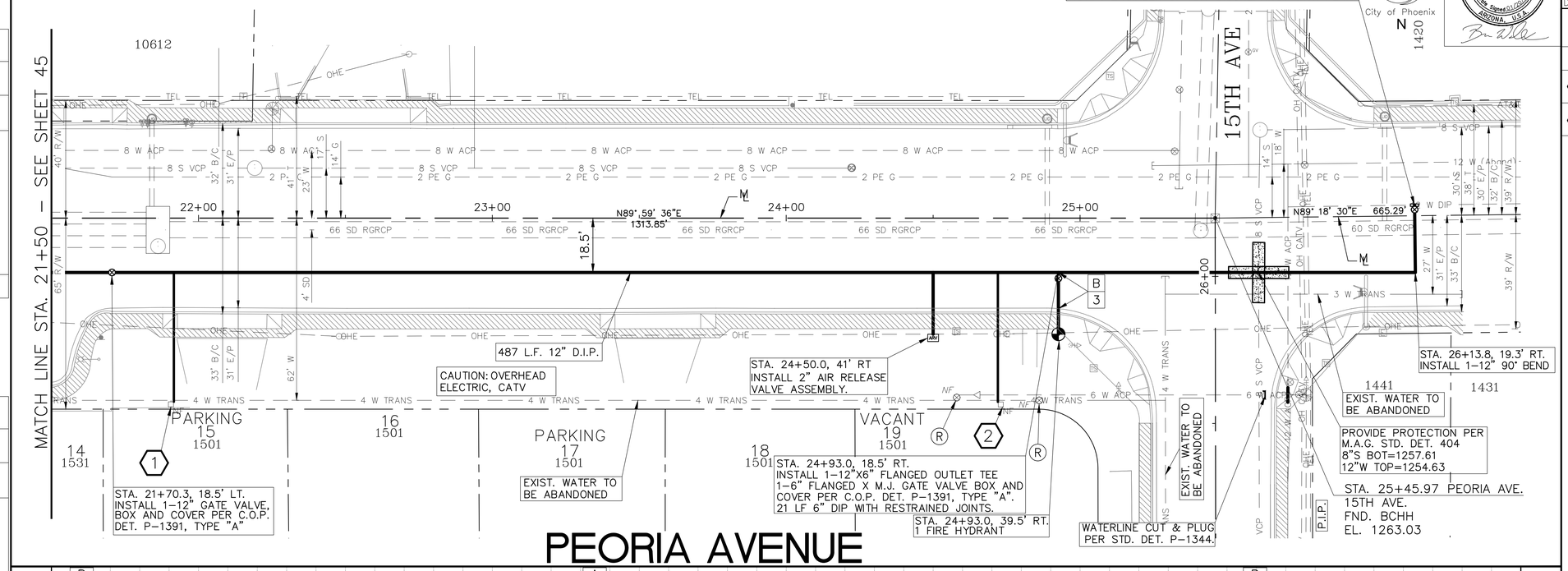
FILE: P:\100\115127g – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_PEORIA AVE_1650-2150.dwg DATE: Jan 20, 2025

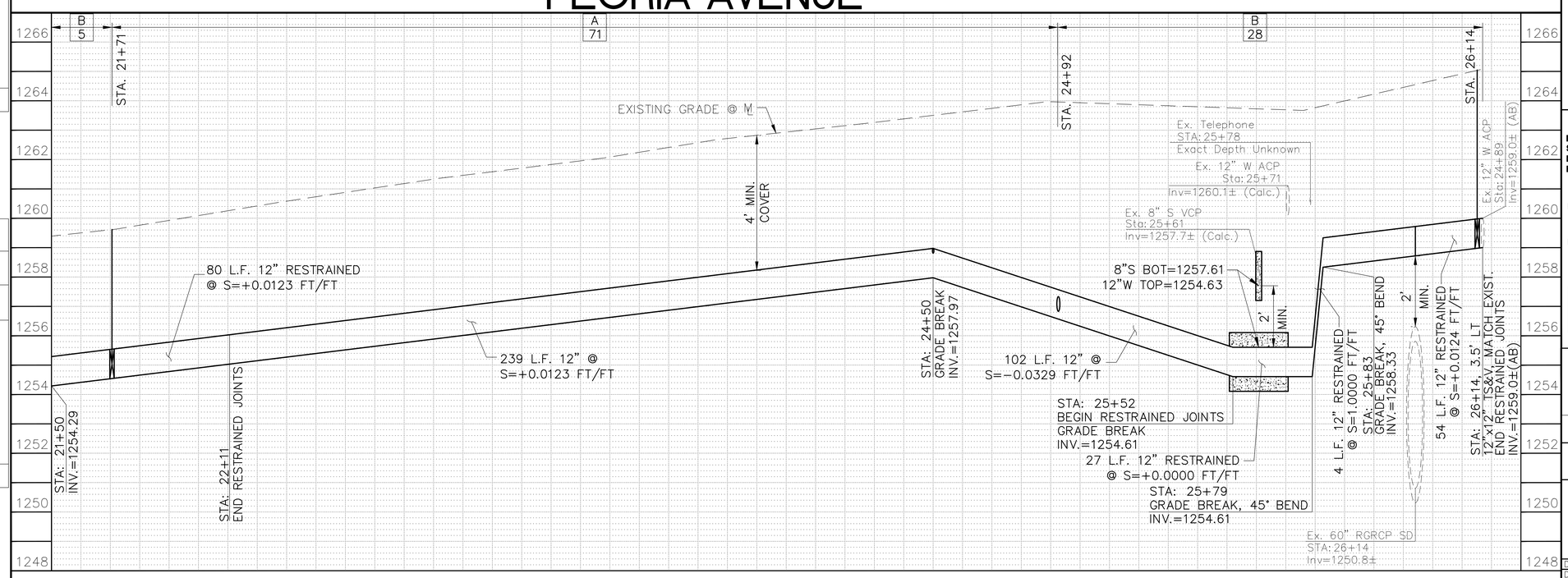
WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

STA. 26+13.9, 3.5' LT.
INSTALL 12"X12" TAP SLEEVE AND VALVE BOX AND COVER PER C.O.P. DET. P–1391 TYPE "A" WITH RESTRAINED JOINTS.CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY WITH PLAN.

City of Phoenix
N
1420

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/06/25
ARIZONA, U.S.A.





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	46	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	21+92	1"	47
2	24+72	1"	47

NOTE:
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AS-BUILT CERTIFICATION

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PEORIA AVENUE
STA. 21+50 - END
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	46	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

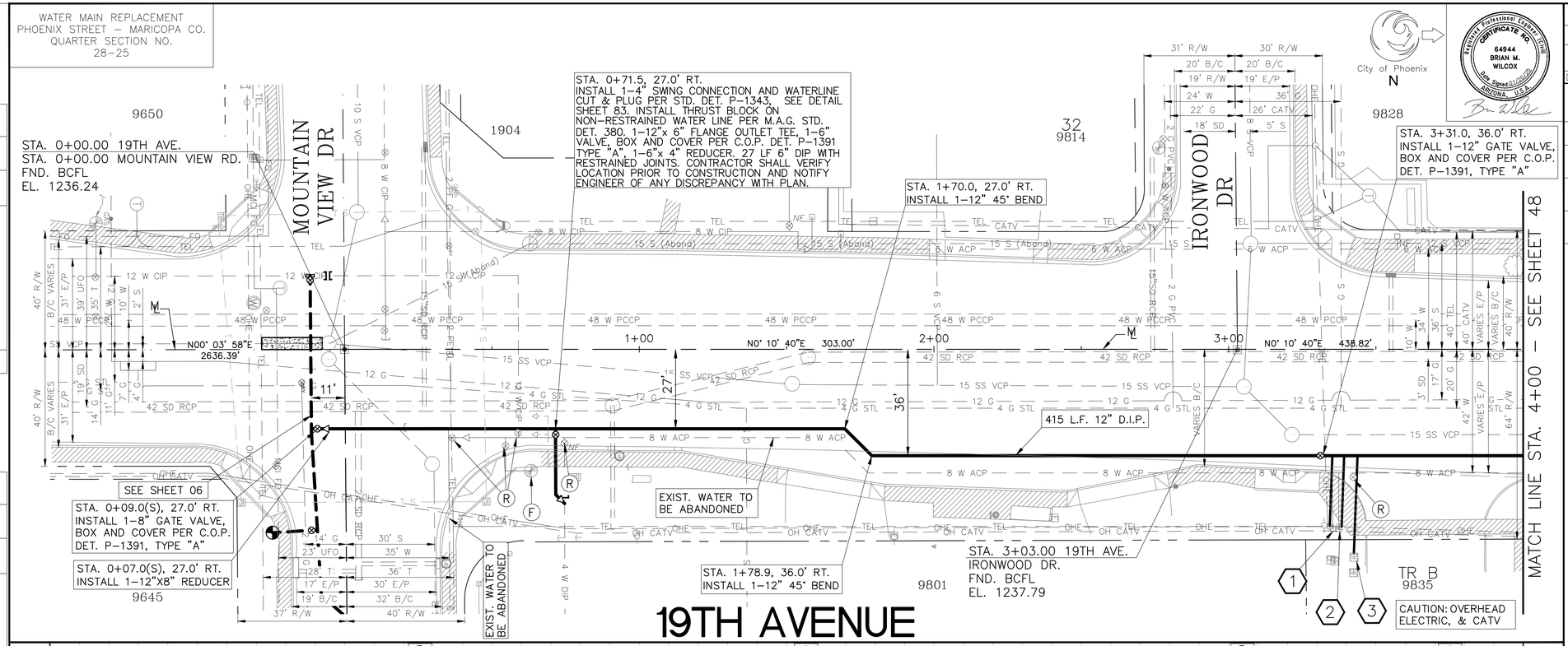
NO.	DESCRIPTION	REV BY	CKD BY	DATE

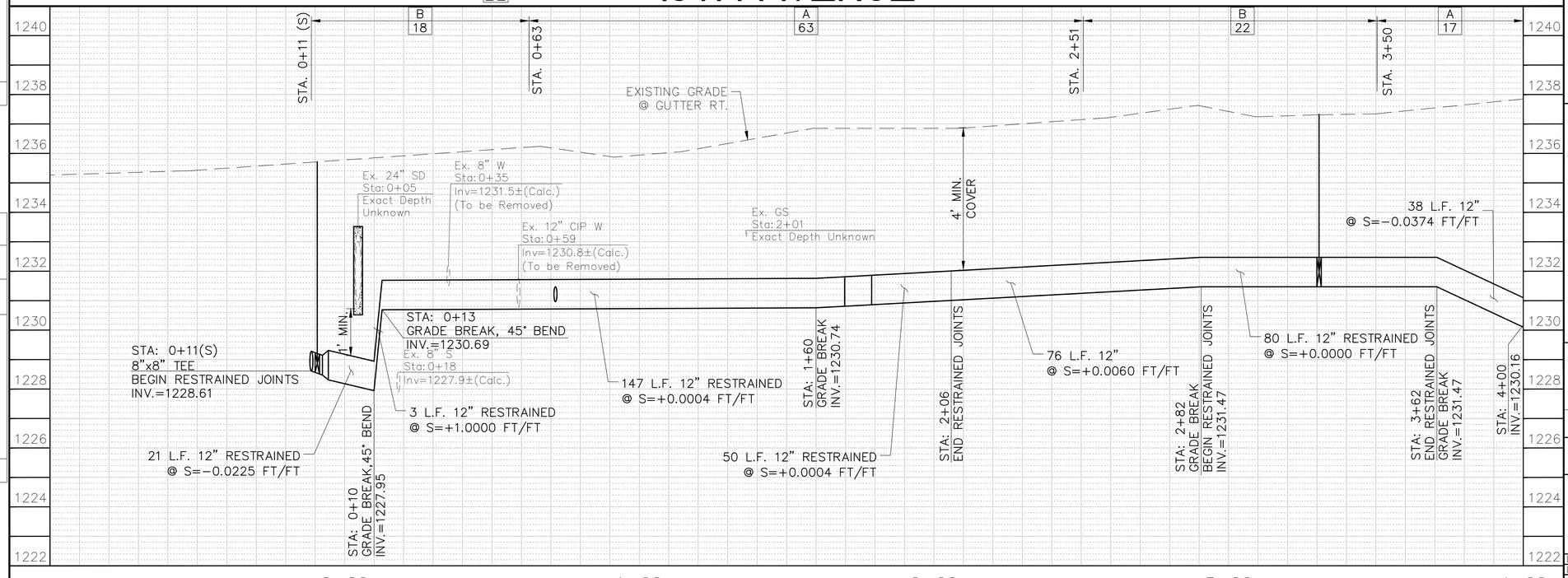
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_PEORIA AVE_2150-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	47	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	3+34	1"	27
2	3+38	1"	27
3	3+43	1"	36

NOTE:
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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

19TH AVENUE
STA. 0+00 - STA. 4+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	47	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

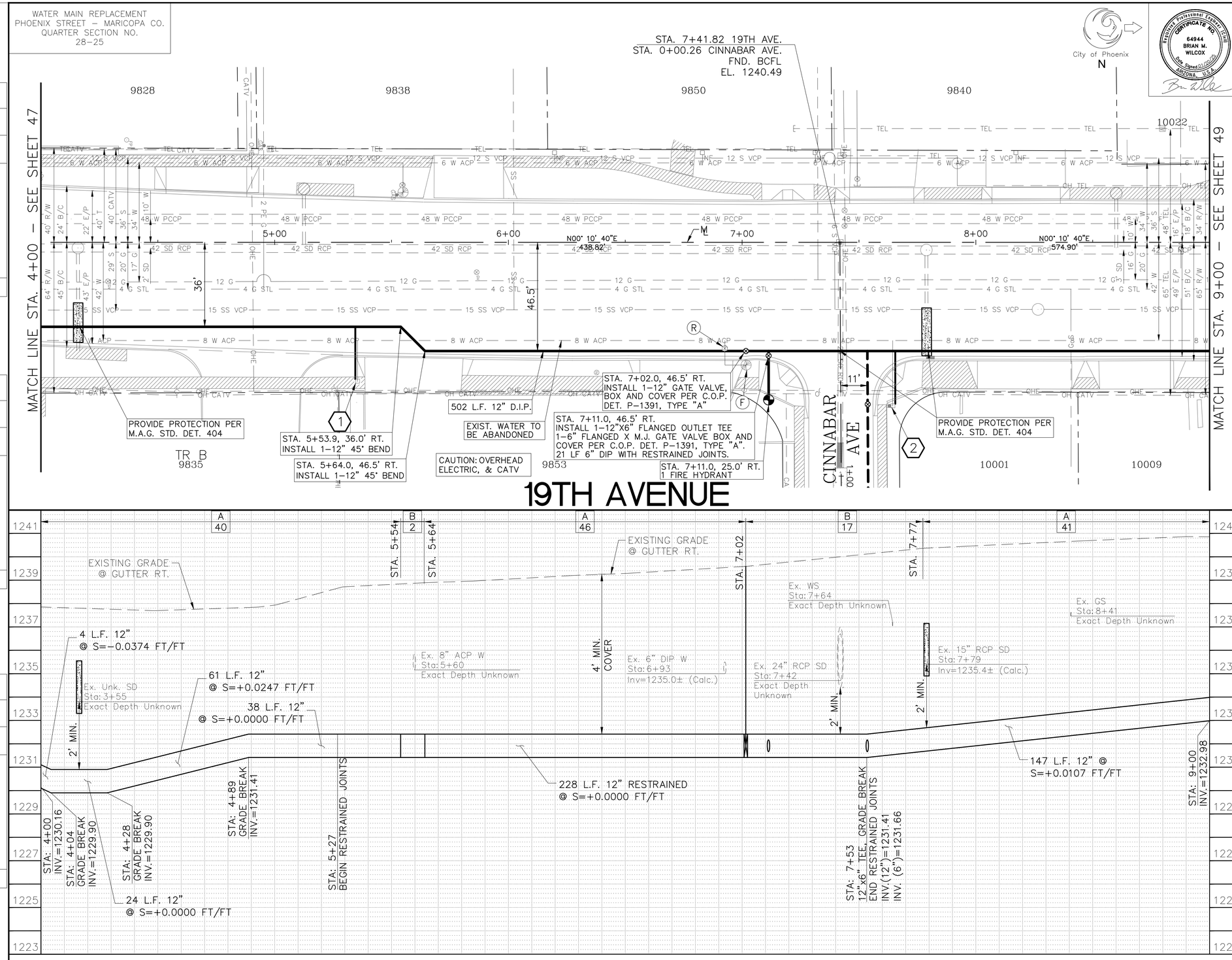
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_19TH AVE_000-400.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	48	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	5+34	1.5"	25
2	7+66	1"	26

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:
RELOCATED WATER METER LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATIONS SHALL BE COORDINATED WITH THE CITY OF PHOENIX.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" 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 **DATE**

REGISTRATION NUMBER

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

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

19TH AVENUE
STA. 4+00 - STA. 9+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	48	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

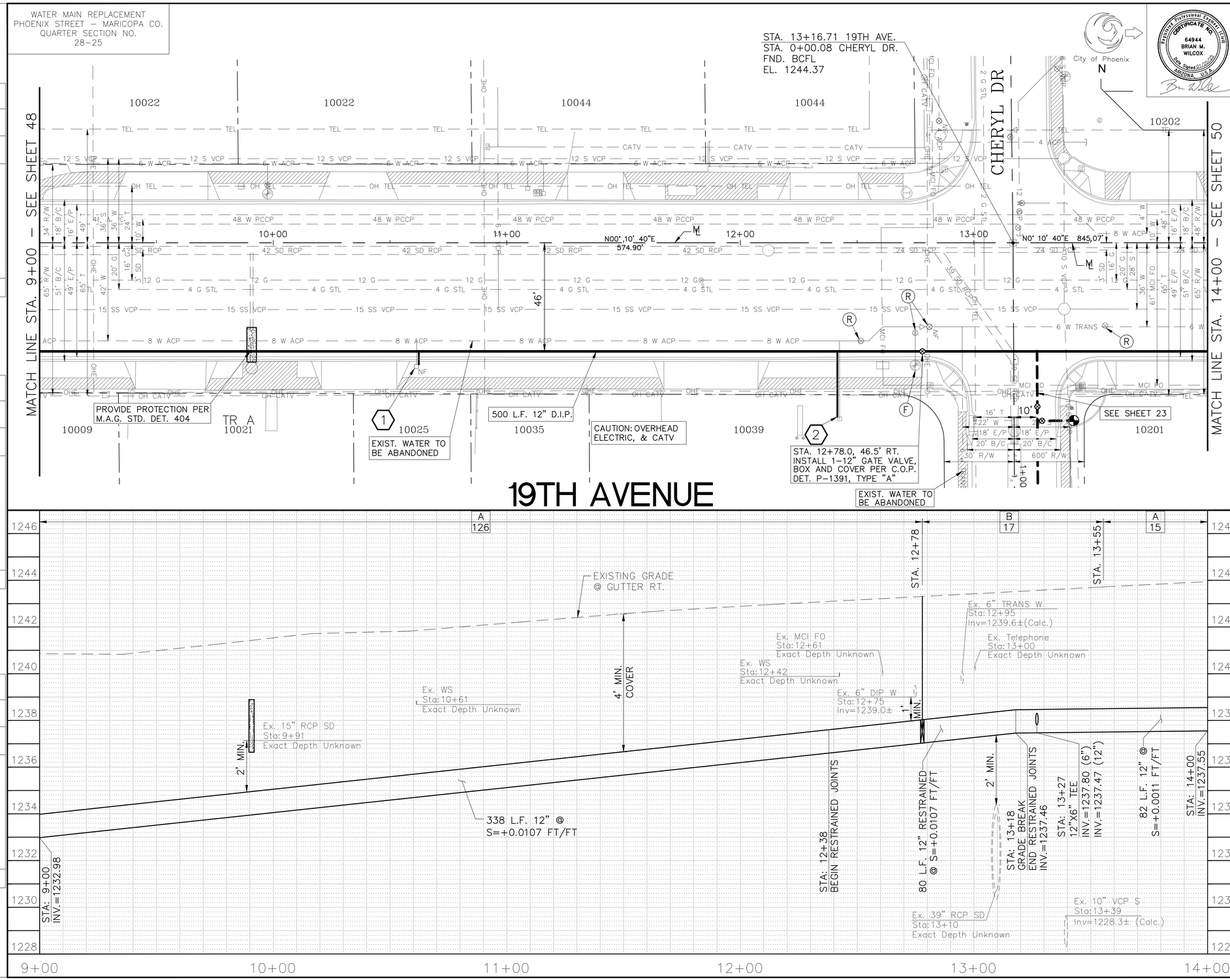
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_19TH AVE_400–900.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	49	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	10+62	1"	9
2	12+42	1"	31

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

19TH AVENUE
STA. 9+00 - STA. 14+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	49	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

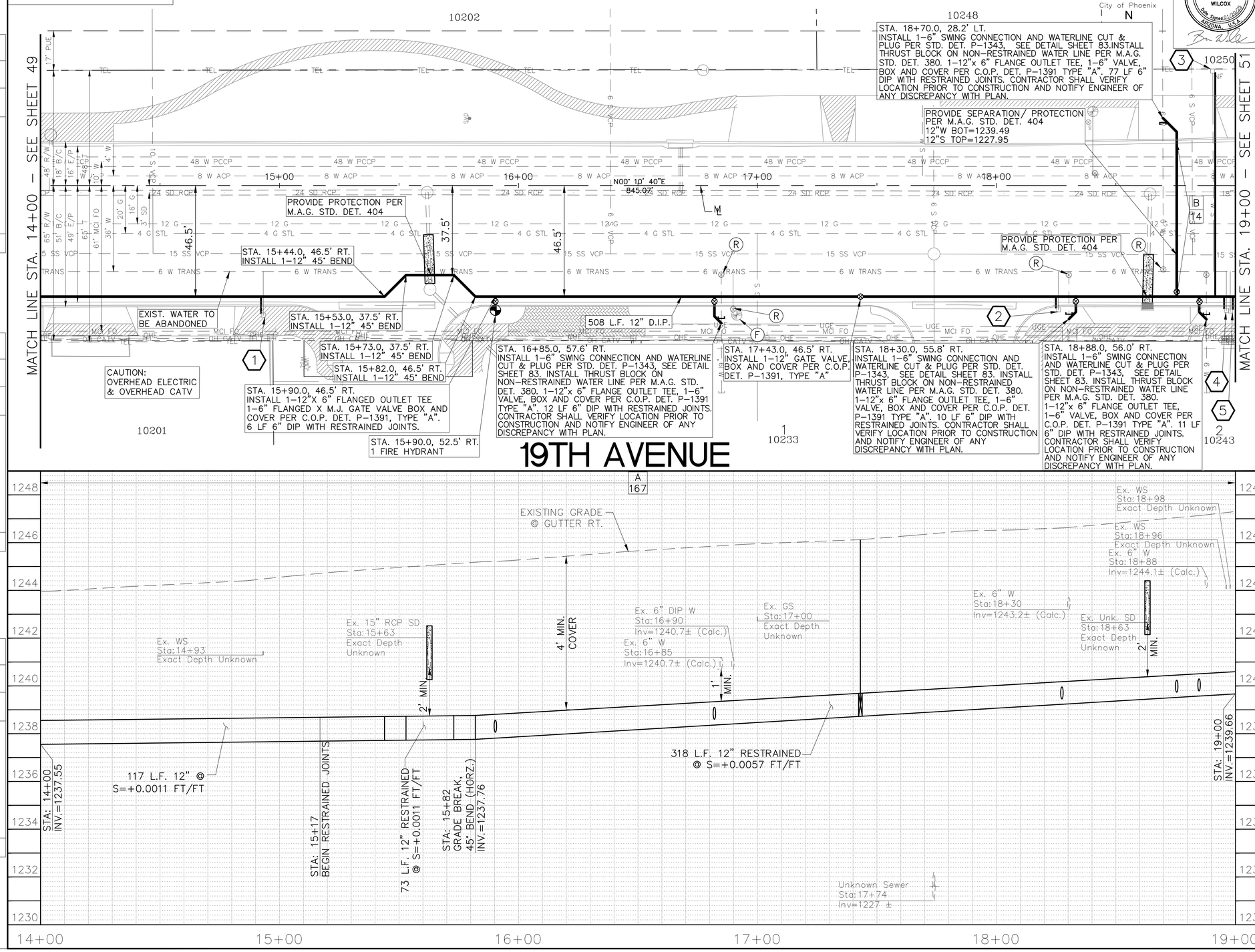
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_19TH AVE_900-1400.dwg DATE: Jan. 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	50	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

Registered Professional Engineer (Civil) CERTIFICATE NO. 64944 BRIAN M. WILCOX Date Signed 01/20/25 ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	14+92	1"	10
2	18+25	2"	8
3	18+92	1"	97
4	18+95	1"	8
5	18+99	1.5"	8

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

19TH AVENUE
STA. 14+00 - STA. 19+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	50	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

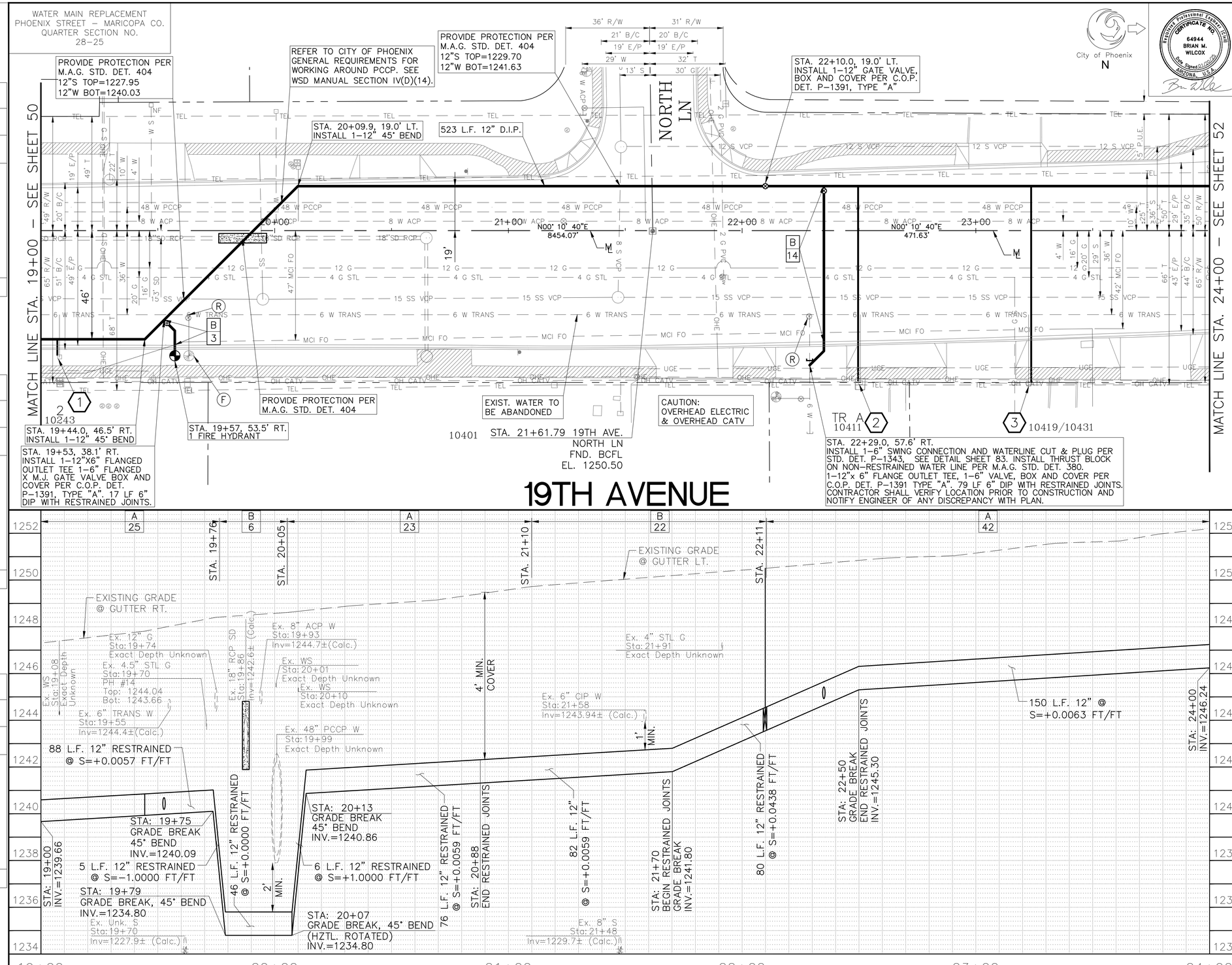
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_19TH AVE_1400–1900.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	51	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS STD DET P–1342

NO.	STATION	SIZE	LF
1	19+07	1.5"	10
2	22+50	1"	86
3	23+24	1"	87

NOTE:
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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

19TH AVENUE
STA. 19+00 - STA. 24+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	51	83

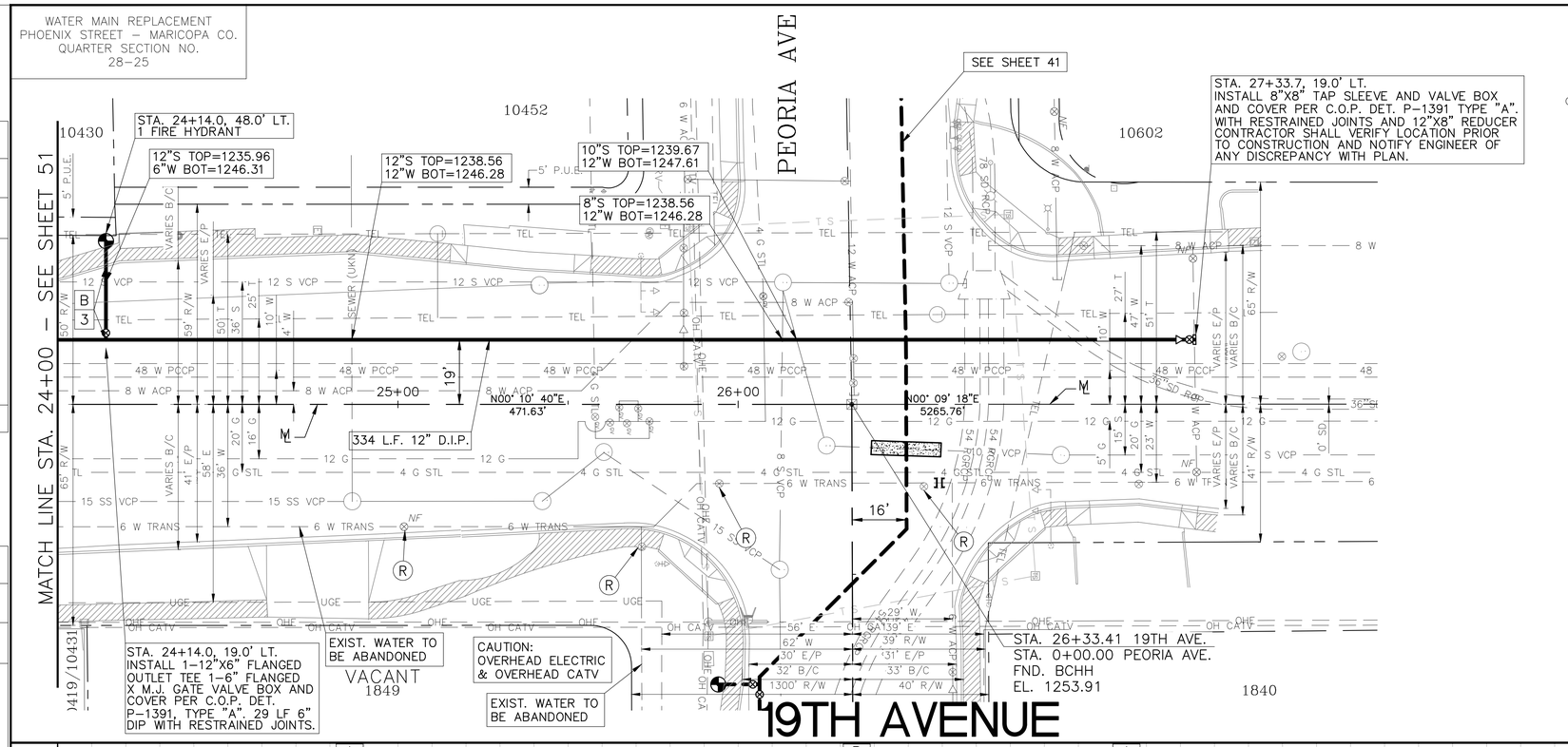
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

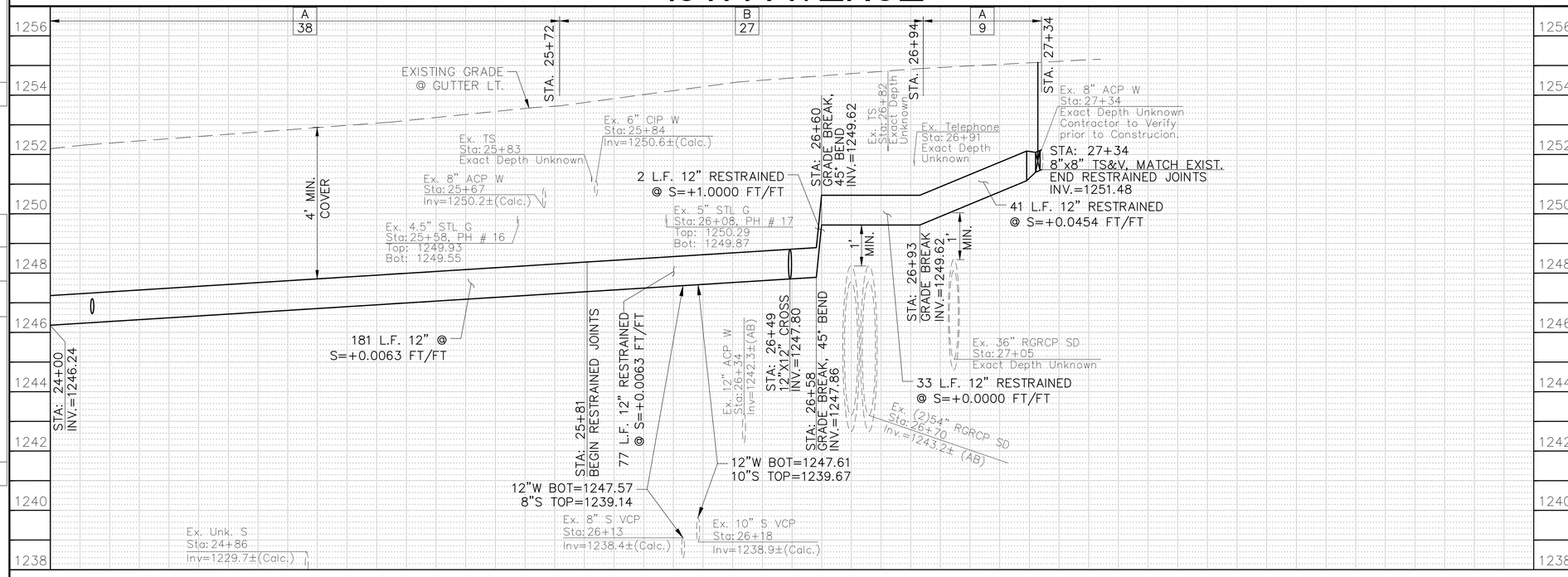
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115173a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031_19TH AVE_1900-2400.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	52	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/20/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

19TH AVENUE
STA. 24+00 - END
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	52	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

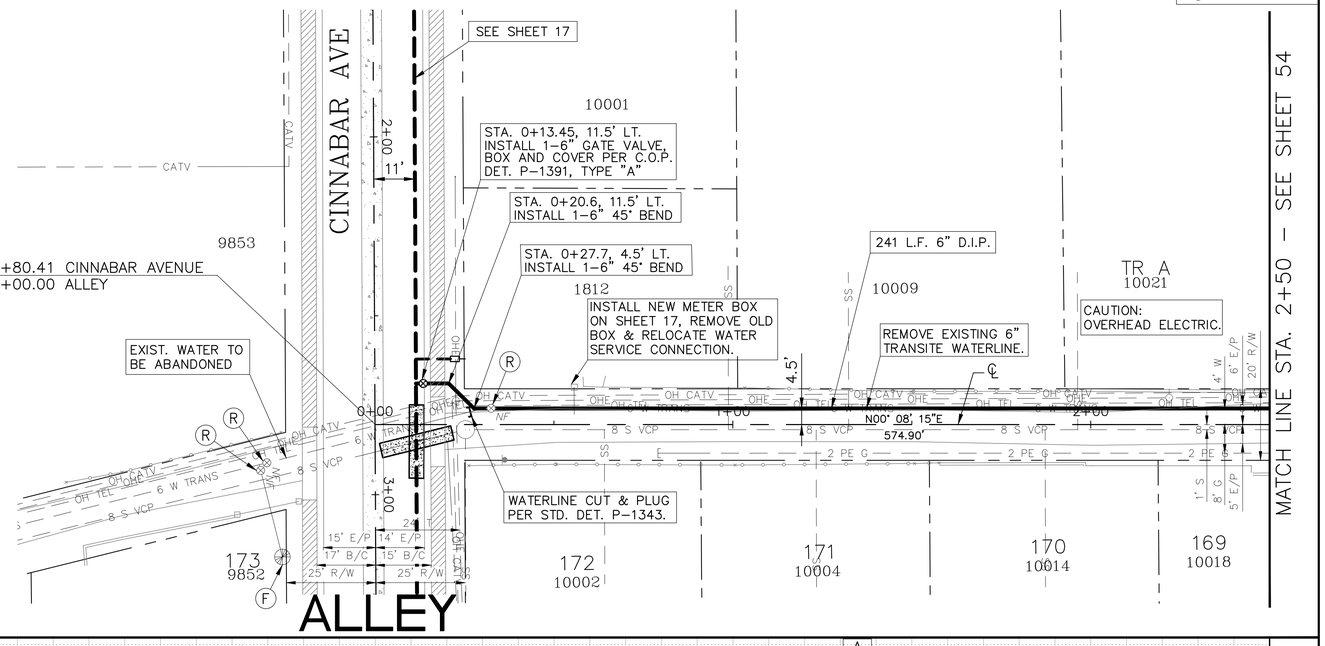
REVISION BY CITY OF PHOENIX

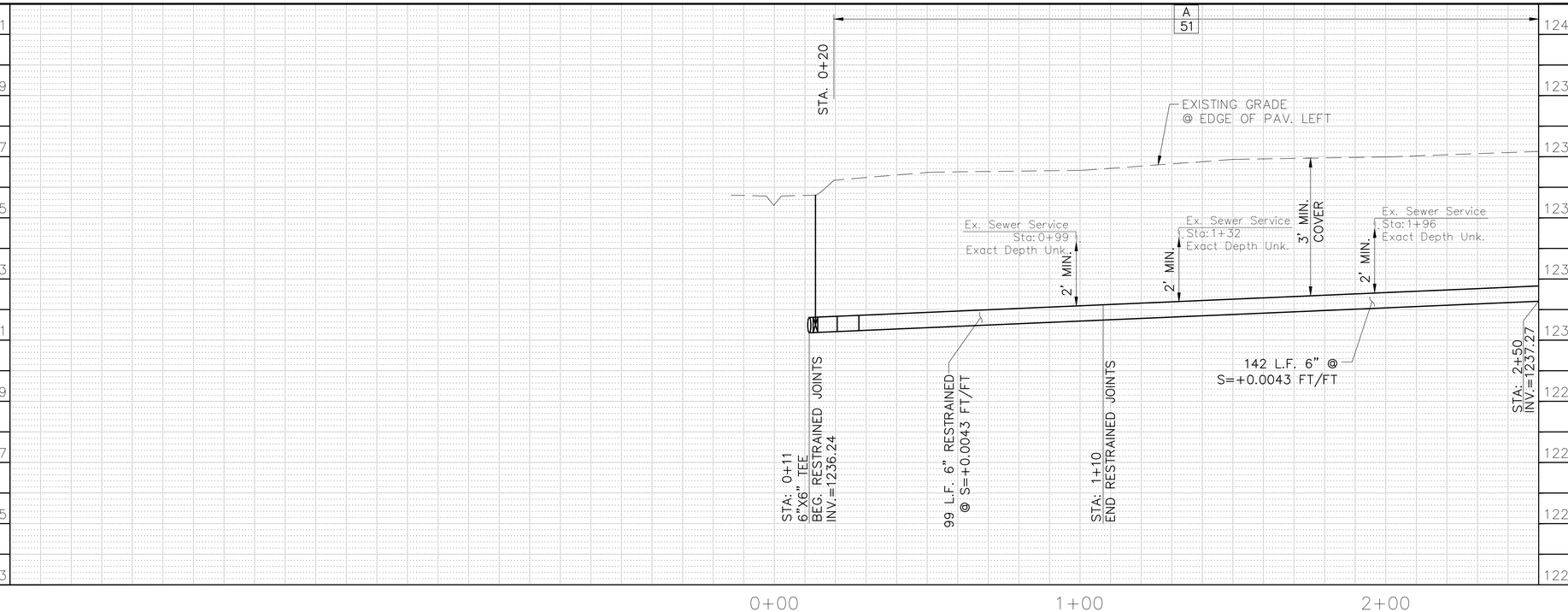
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_19TH AVE-2400-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

City of Phoenix
N





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	53	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/21/25
ARIZONA, U.S.A.

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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

ALLEY
STA. 0+00 - STA. 2+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	53	83
SCALE: 1" = 20' HORIZONTAL, 1" = 2' VERTICAL				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

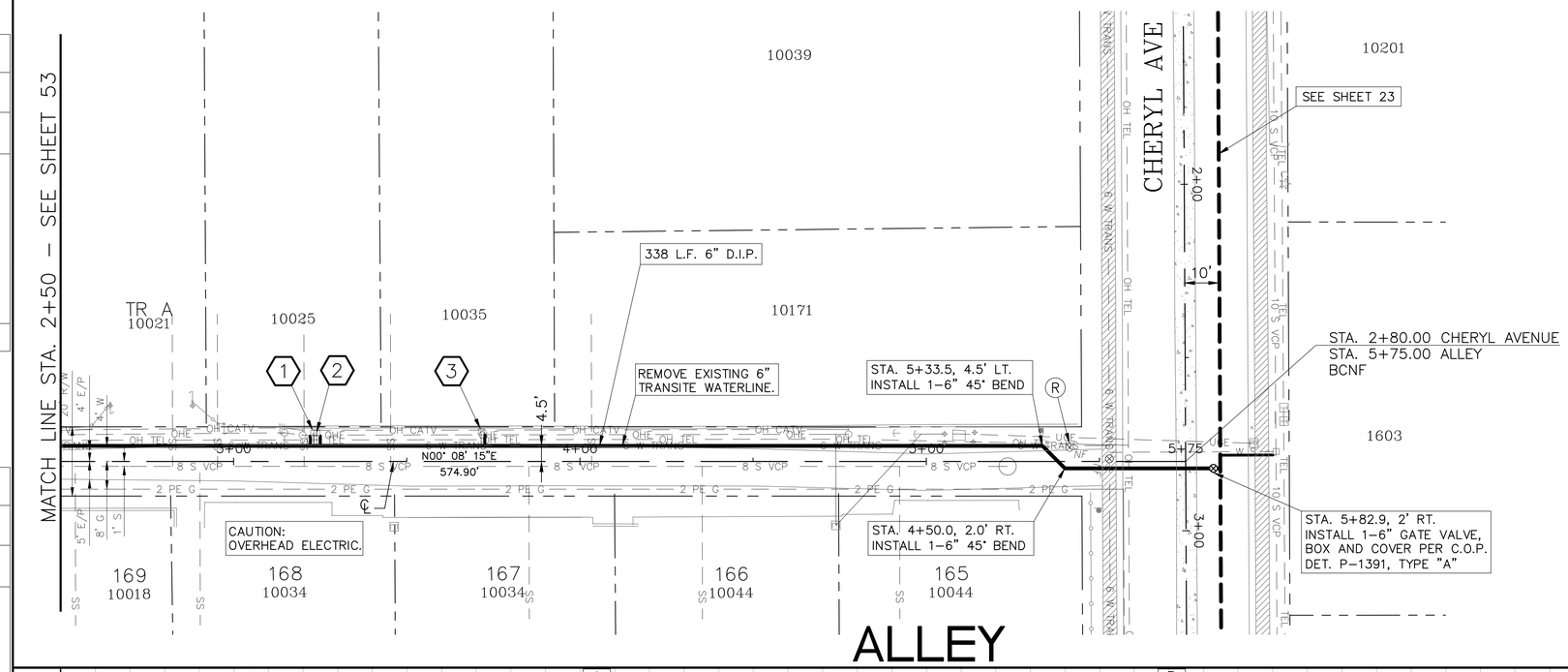
NO.	DESCRIPTION	REV BY	CKD BY	DATE

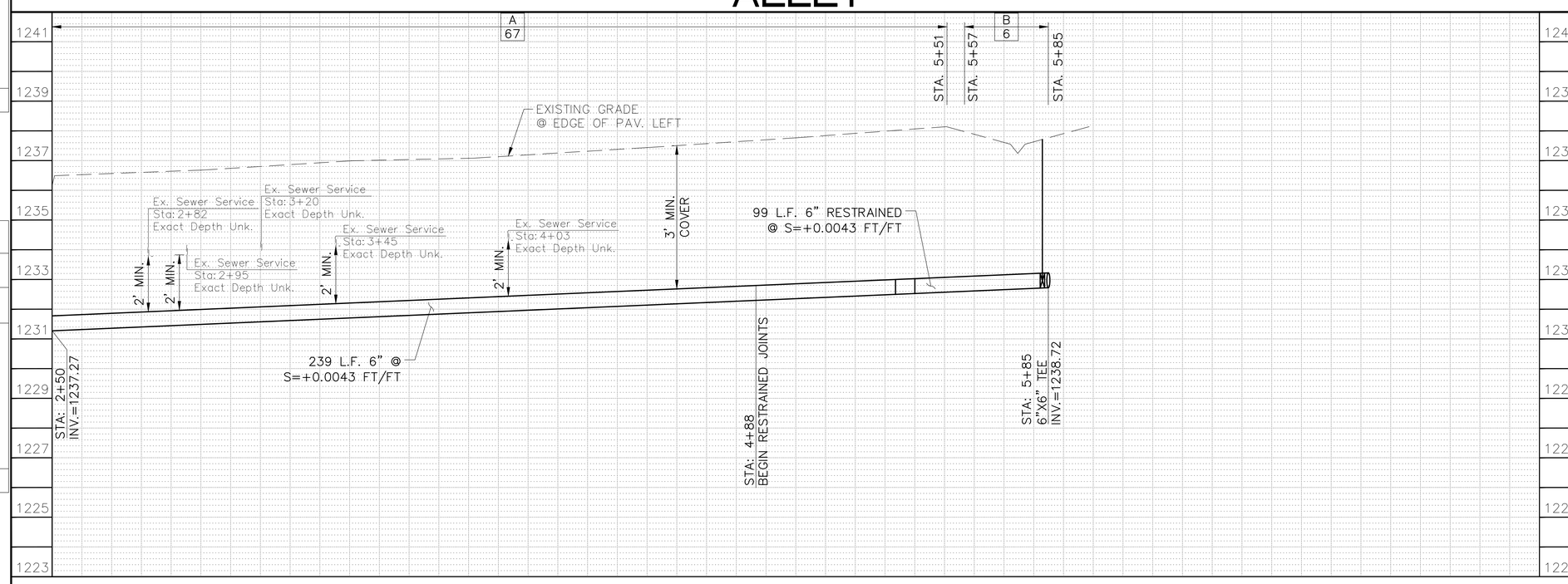
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_ALLEY_000-250.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	54	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	3+23	1"	6
2	3+24	1"	6
3	3+72	1"	6

NOTE:
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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

ALLEY
STA. 02+50 - END
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
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SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

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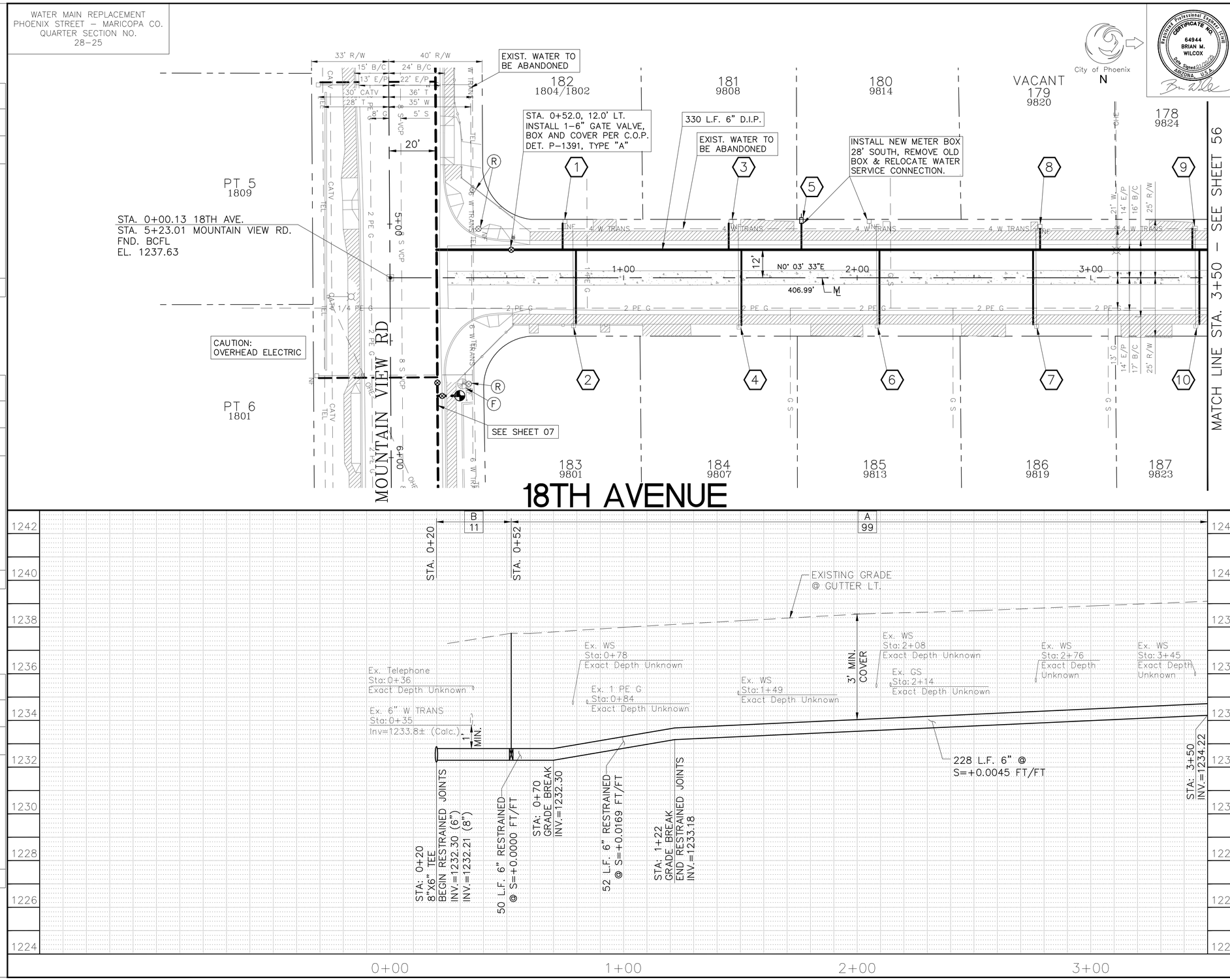
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_ALLEY_250-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	55	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+74	1"	14
2	0+80	1"	35
3	1+45	1"	14
4	1+50	1"	35
5	2+76	1"	16
6	2+10	1"	35
7	2+75	1"	35
8	2+78	1"	12
9	3+43	1"	12
10	3+46	1"	35

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

18TH AVENUE
STA. 0+00 - STA. 3+50

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	55	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

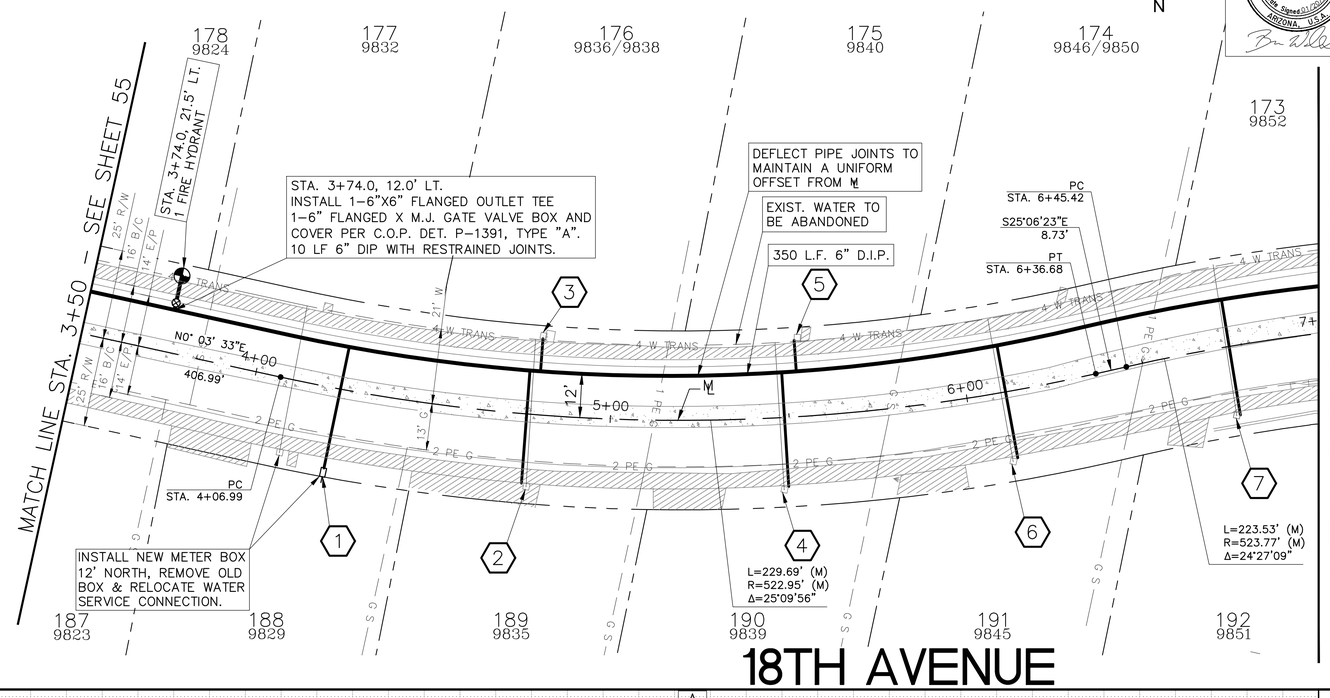
NO.	DESCRIPTION	REV BY	CKD BY	DATE

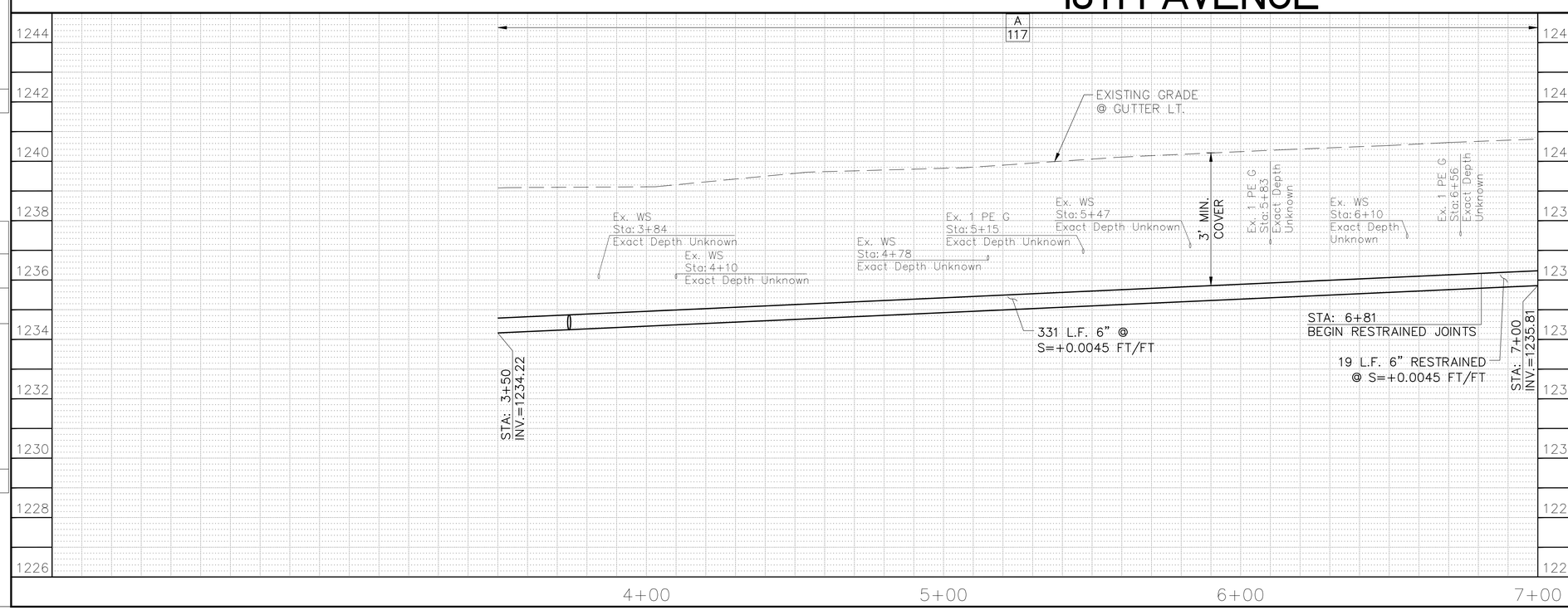
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_18TH AVE (S)_000–350.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	56	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/20/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	4+24	1"	37
2	4+77	1"	35
3	4+80	1"	12
4	5+49	1"	35
5	5+53	1"	12
6	6+11	1"	35
7	6+75	1"	36

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:
RELOCATED WATER METER LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATIONS SHALL BE COORDINATED WITH THE CITY OF PHOENIX.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

REGISTRATION NUMBER

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ARIZONA811
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

18TH AVENUE
STA. 3+50 - STA. 7+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	56	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

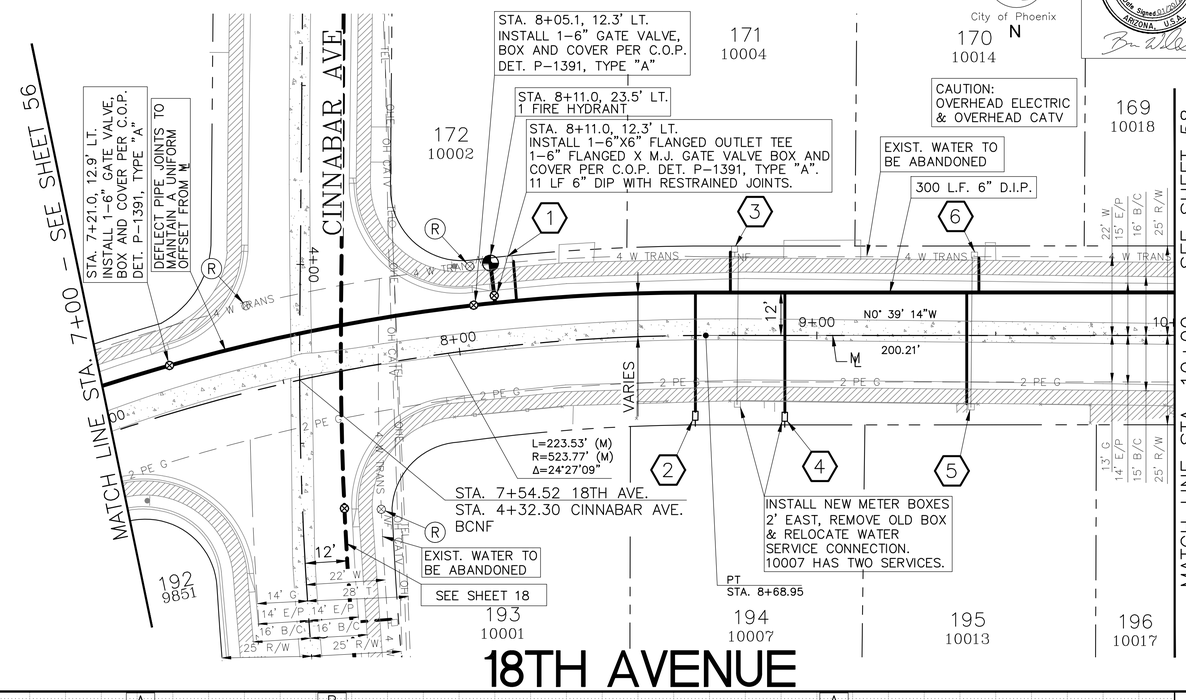
NO.	DESCRIPTION	REV BY	CKD BY	DATE

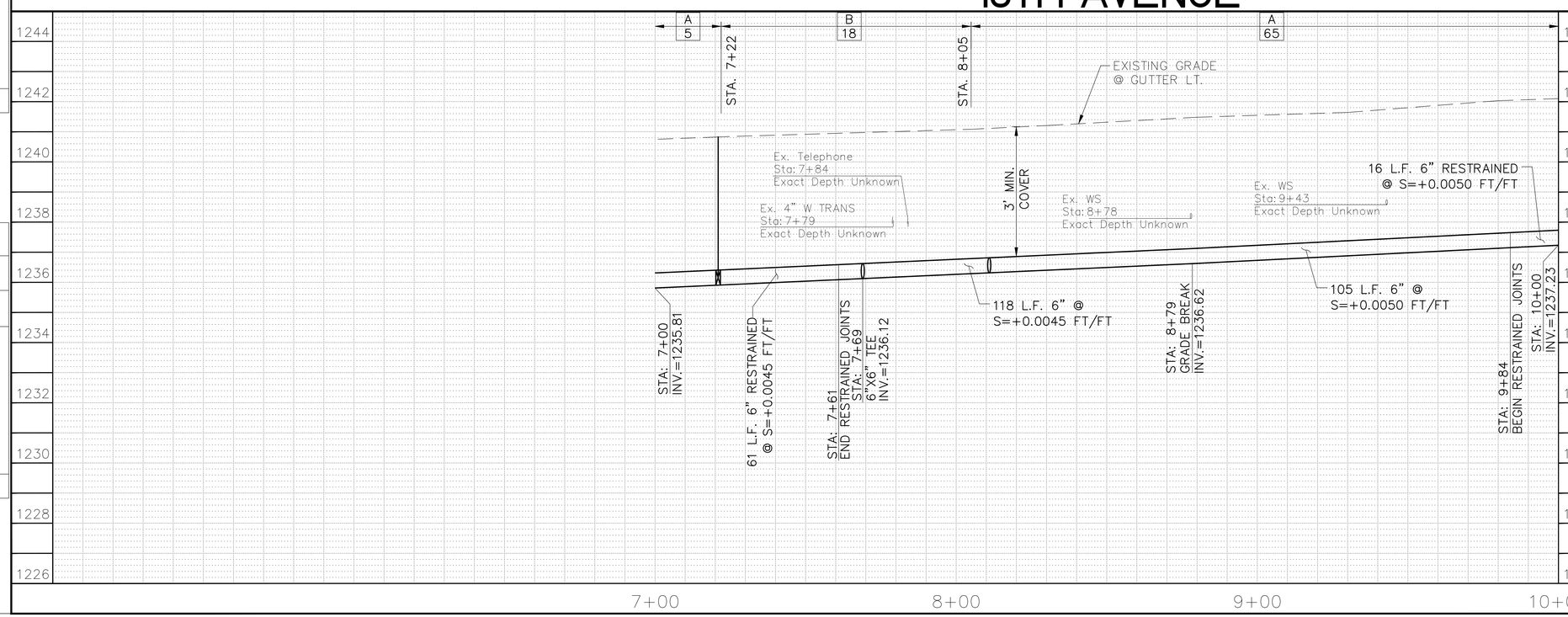
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_18TH AVE (S)_350–700.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	57	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/29/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	8+17	1"	14
2	8+66	1"	37
3	8+76	1"	14
4	9+91	1"	37
5	9+42	1"	34
6	9+45	1"	13

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

18TH AVENUE
STA. 7+00 - STA. 10+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	57	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

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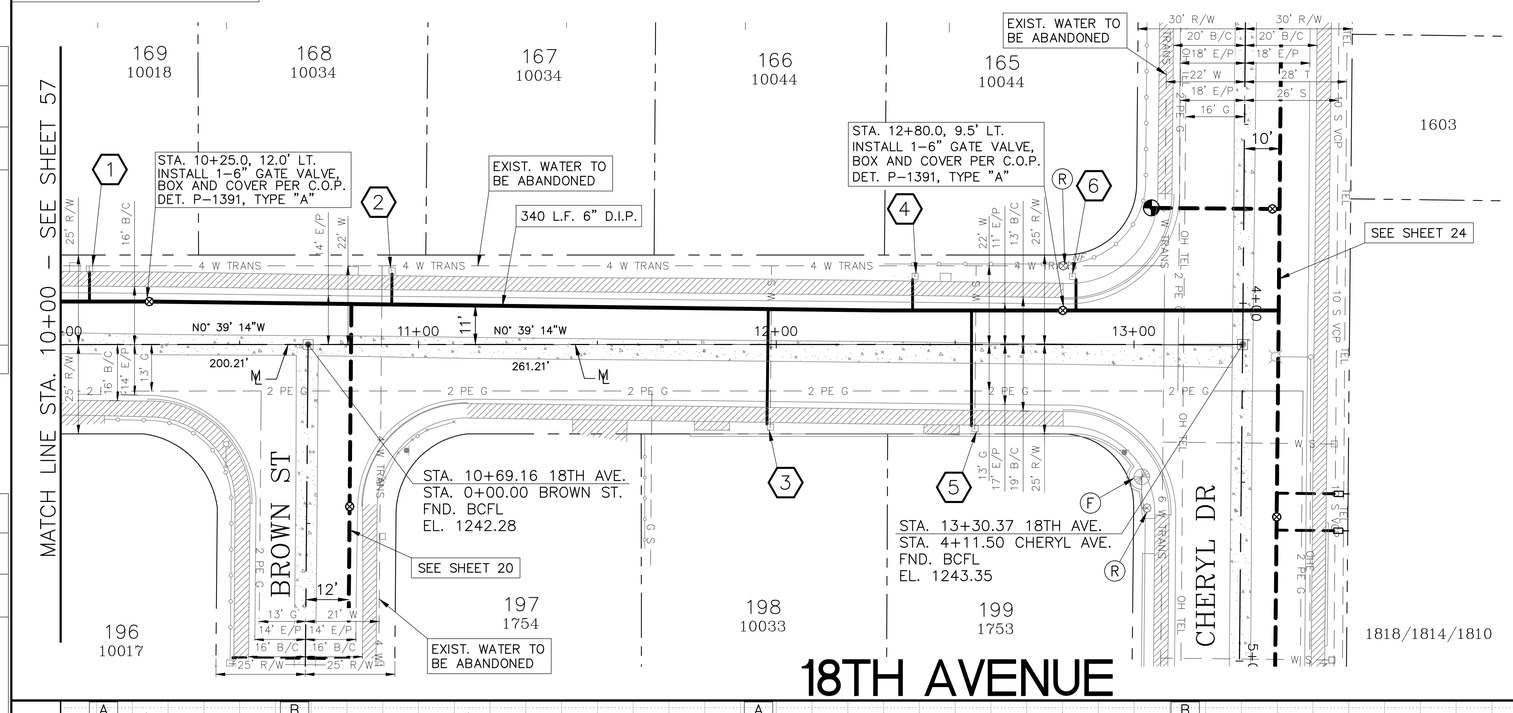
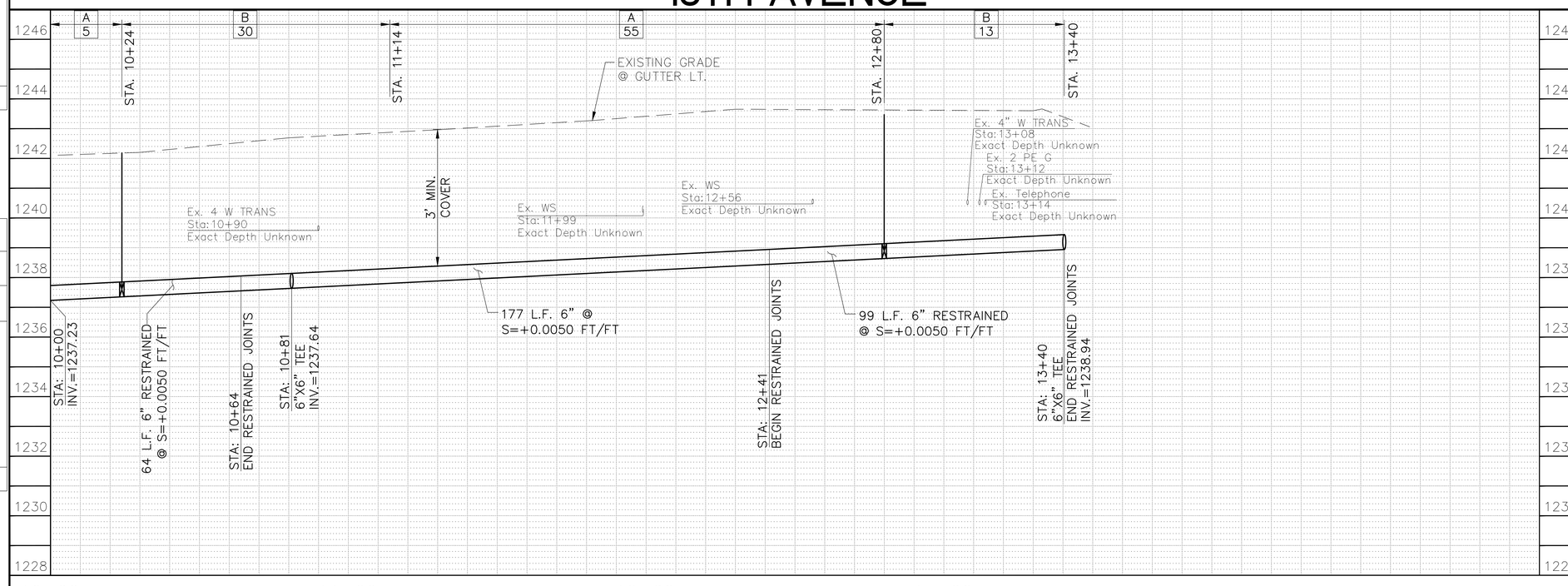
FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_18TH AVE (S)_700–1000.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	58	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	10+08	1"	11
2	10+90	1"	12
3	11+97	1"	35
4	12+38	1"	12
5	12+55	1"	35
6	12+84	1"	12

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

18TH AVENUE
STA. 10+00 - END
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	58	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

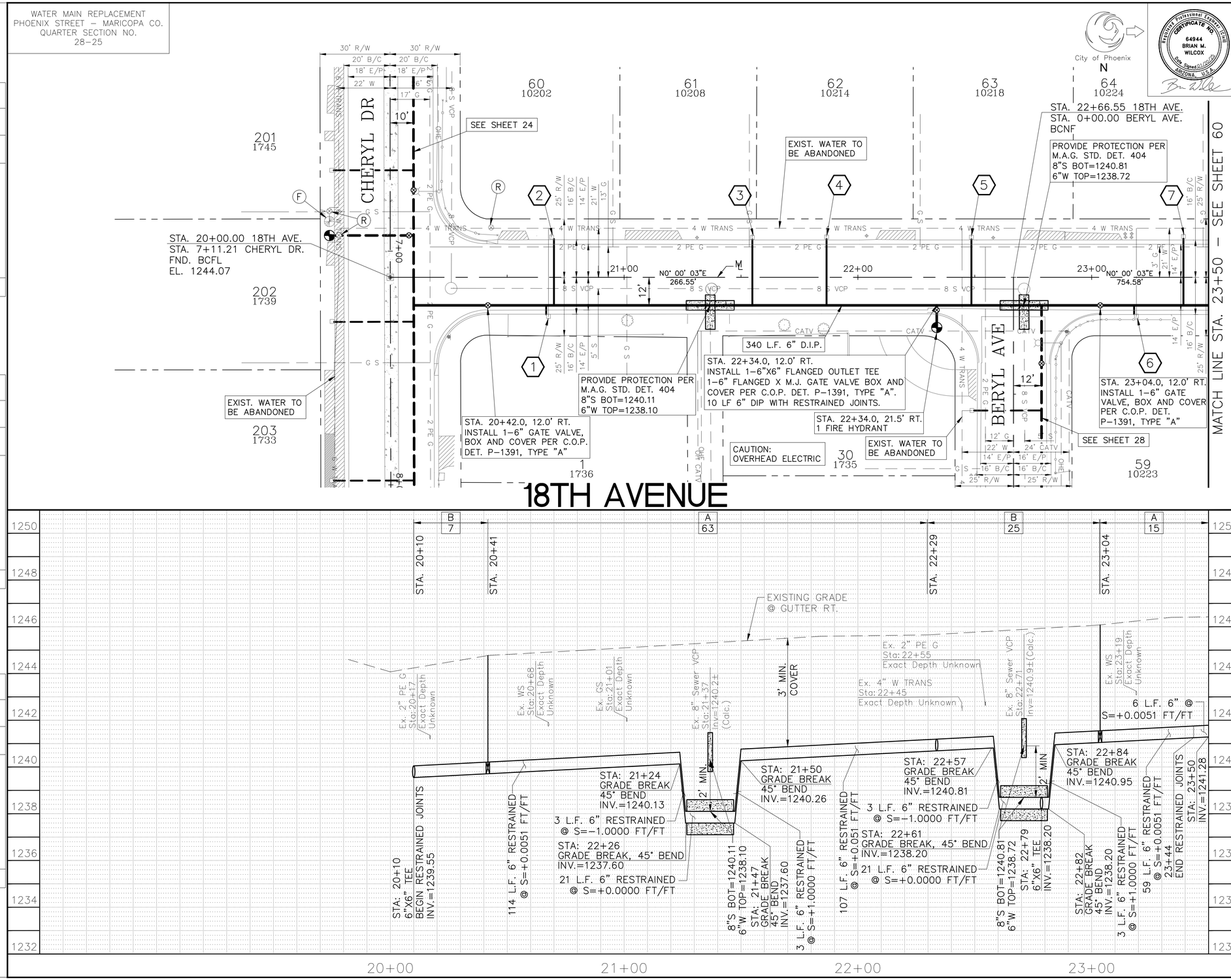
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_18TH AVE (S)_1000-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	59	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS STD DET P–1342

NO.	STATION	SIZE	LF
1	20+67	1"	7
2	20+70	1"	31
3	21+55	1"	31
4	21+87	1"	31
5	22+49	1"	31
6	23+18	1"	7
7	23+39	1"	32

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

18TH AVENUE
STA. 20+00 - STA. 23+50

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	59	83

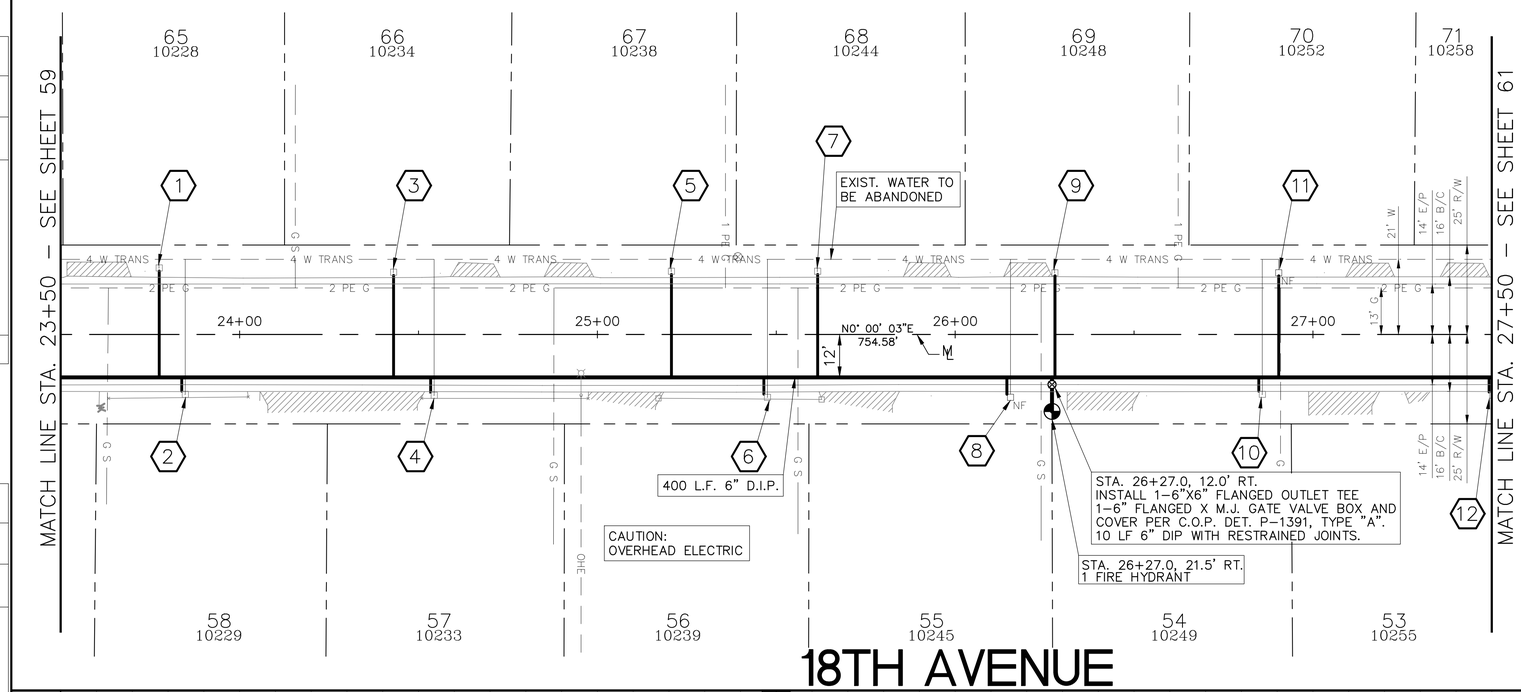
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

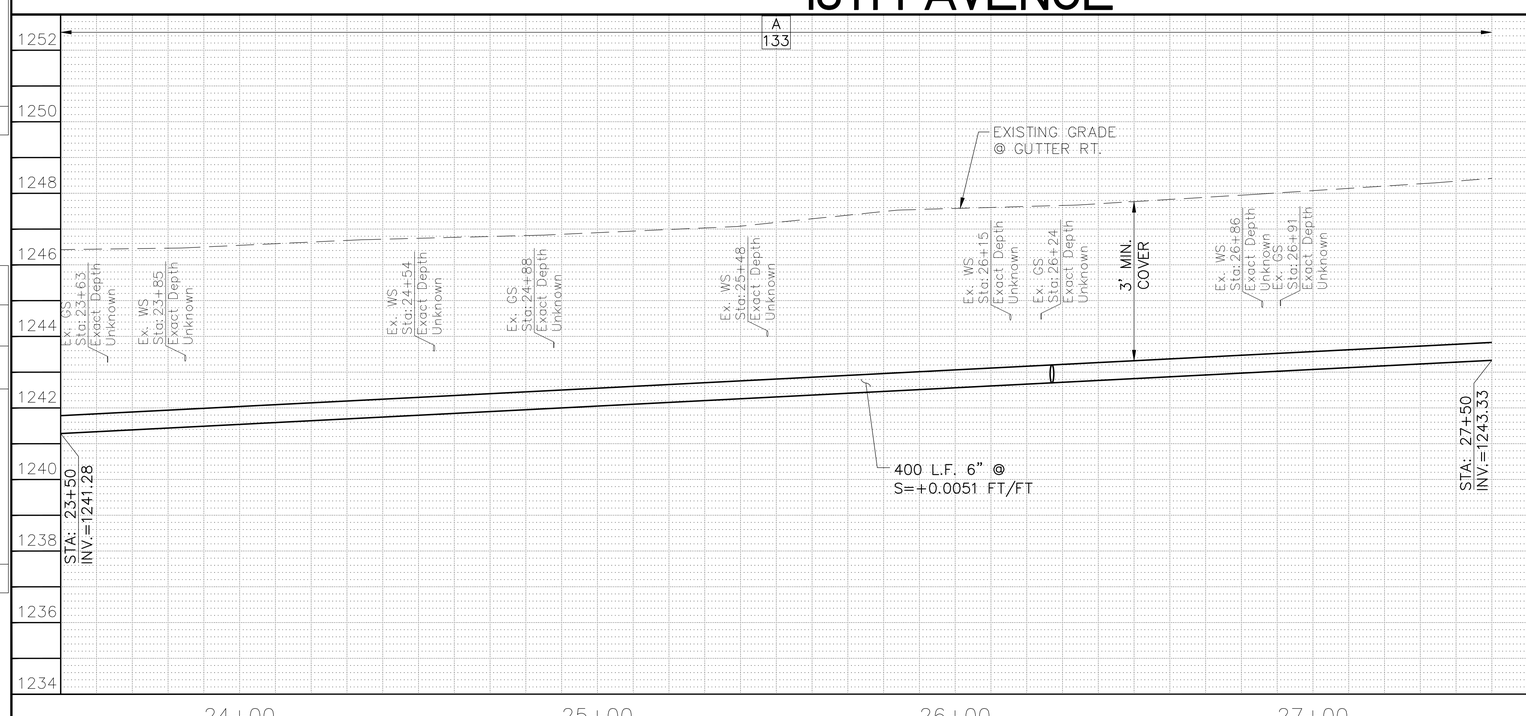
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115172a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_18TH AVE (N)_2000-2350.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





City of Phoenix
N

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/21/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	60	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	23+78	1"	33
2	23+84	1"	7
3	24+43	1"	31
4	24+53	1"	7
5	25+21	1"	31
6	25+47	1"	8
7	25+62	1"	32
8	26+14	1"	8
9	26+28	1"	31
10	26+85	1"	7
11	26+90	1"	31
12	27+49	1"	7

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

18TH AVENUE
STA. 23+50 - STA. 27+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	60	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

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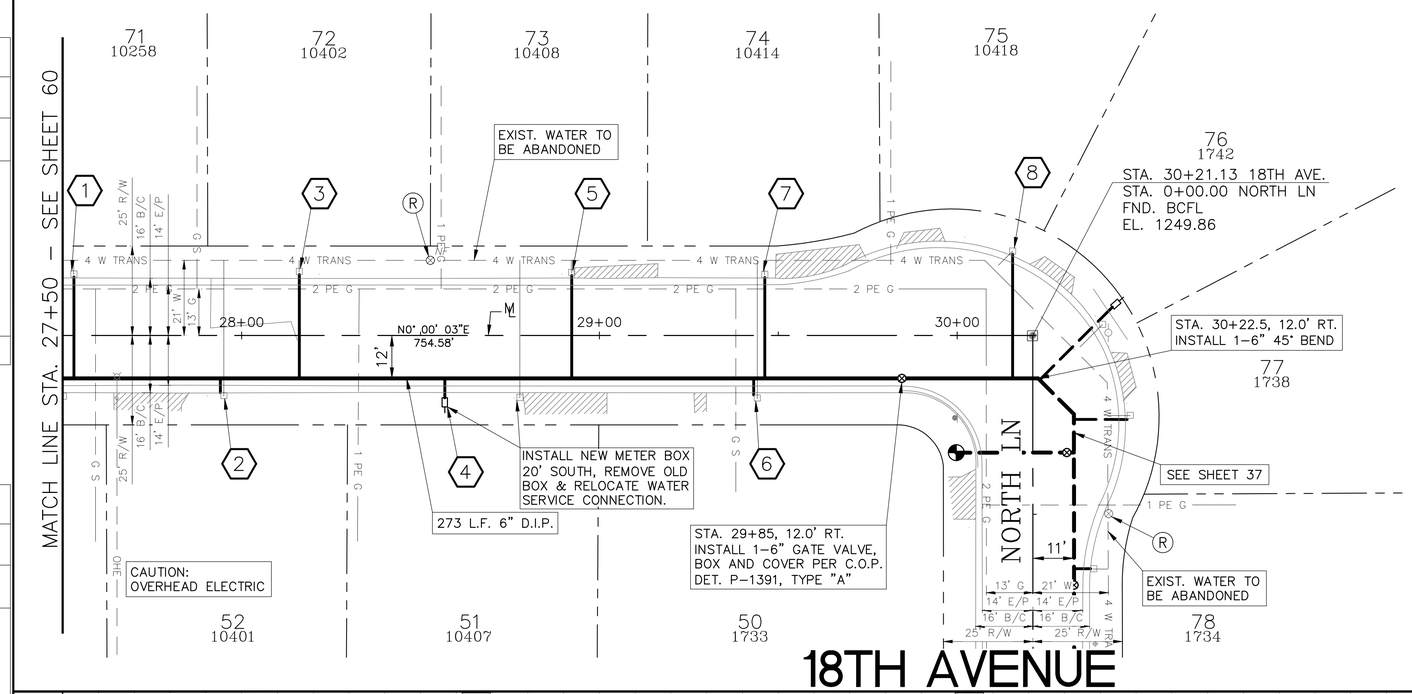
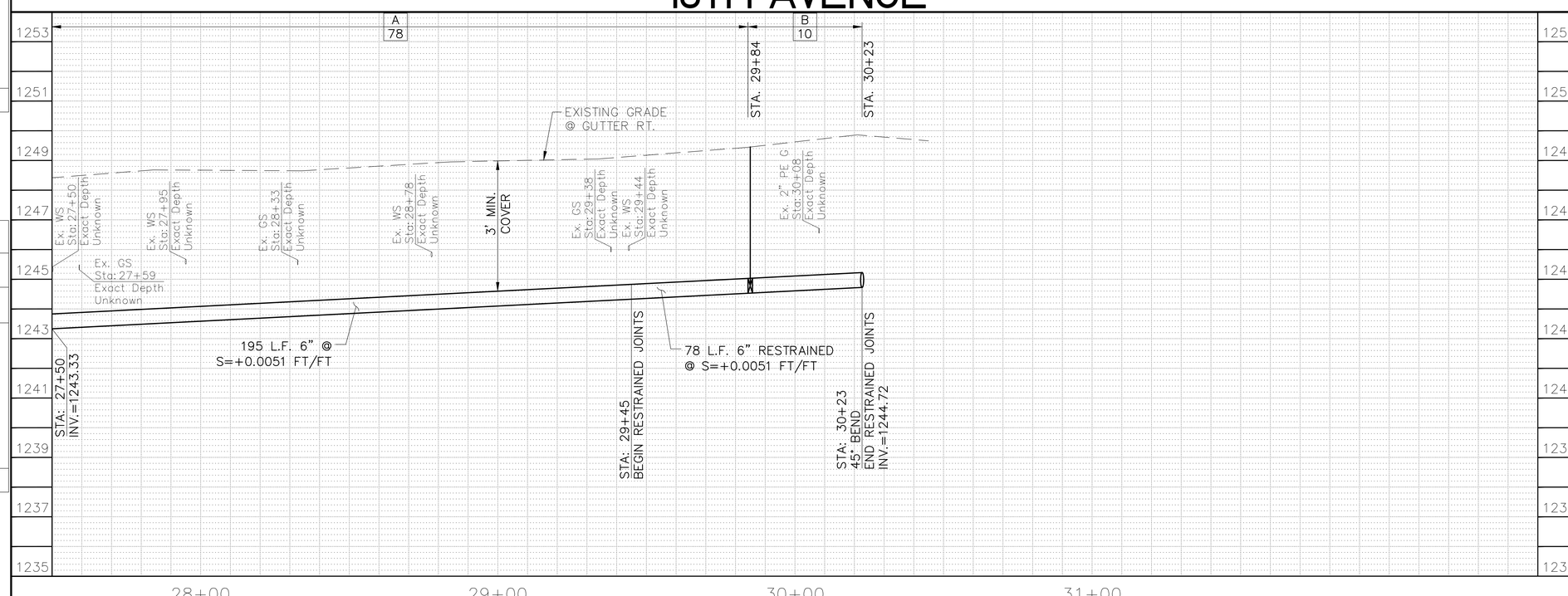
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th. ave\d_production\Cadd\09_Water\WS85509031_18TH AVE (N) 2350–2750.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	61	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	27+53	1"	31
2	27+94	1"	7
3	28+16	1"	32
4	28+57	1"	7
5	28+92	1"	32
6	29+43	1"	8
7	29+46	1"	31
8	30+16	1"	38

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REGISTERED ENGINEER _____ **DATE** _____

REGISTRATION NUMBER _____

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

18TH AVENUE
STA. 27+50 - END

WS85509031

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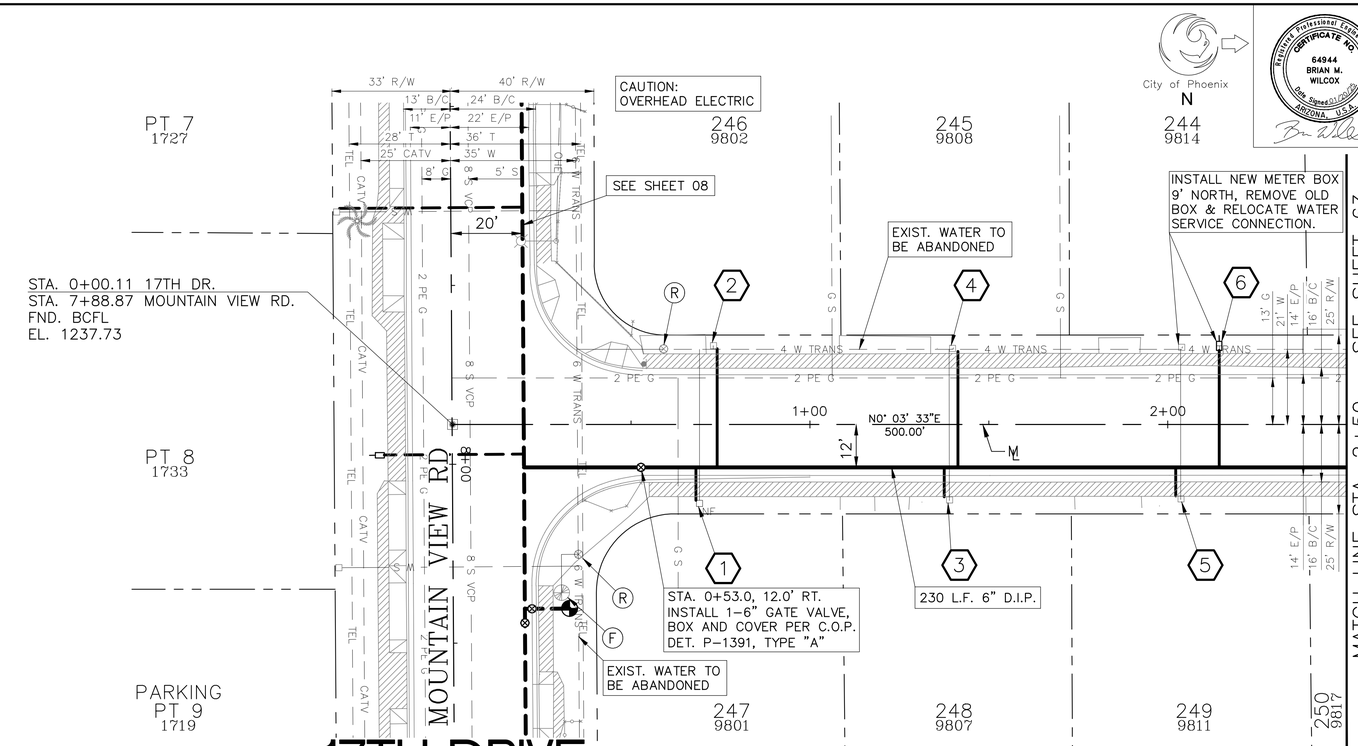
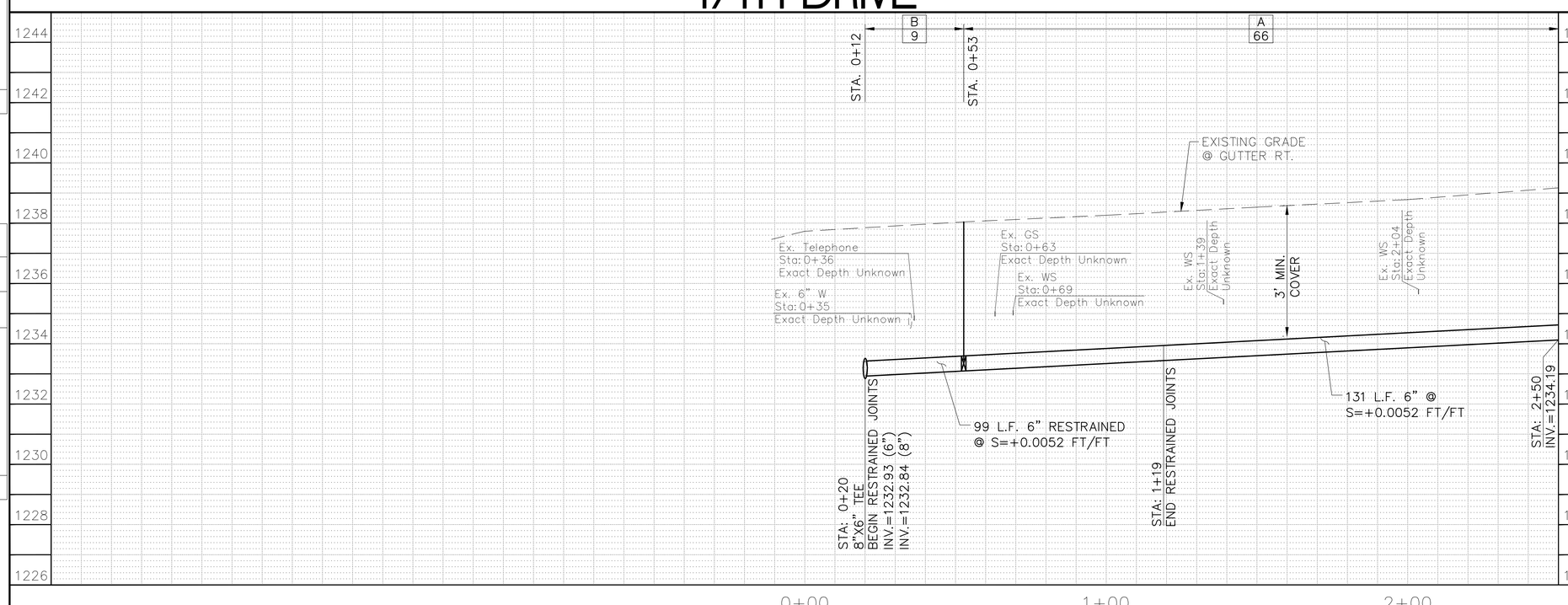
FILE: P:\100\115172g – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_18TH AVE (N)_2750-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	62	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+68	1"	12
2	0+74	1"	36
3	1+38	1"	11
4	1+41	1"	35
5	2+02	1"	11
6	2+14	1"	36

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH DRIVE
STA. 0+00 - STA. 2+50
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	62	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

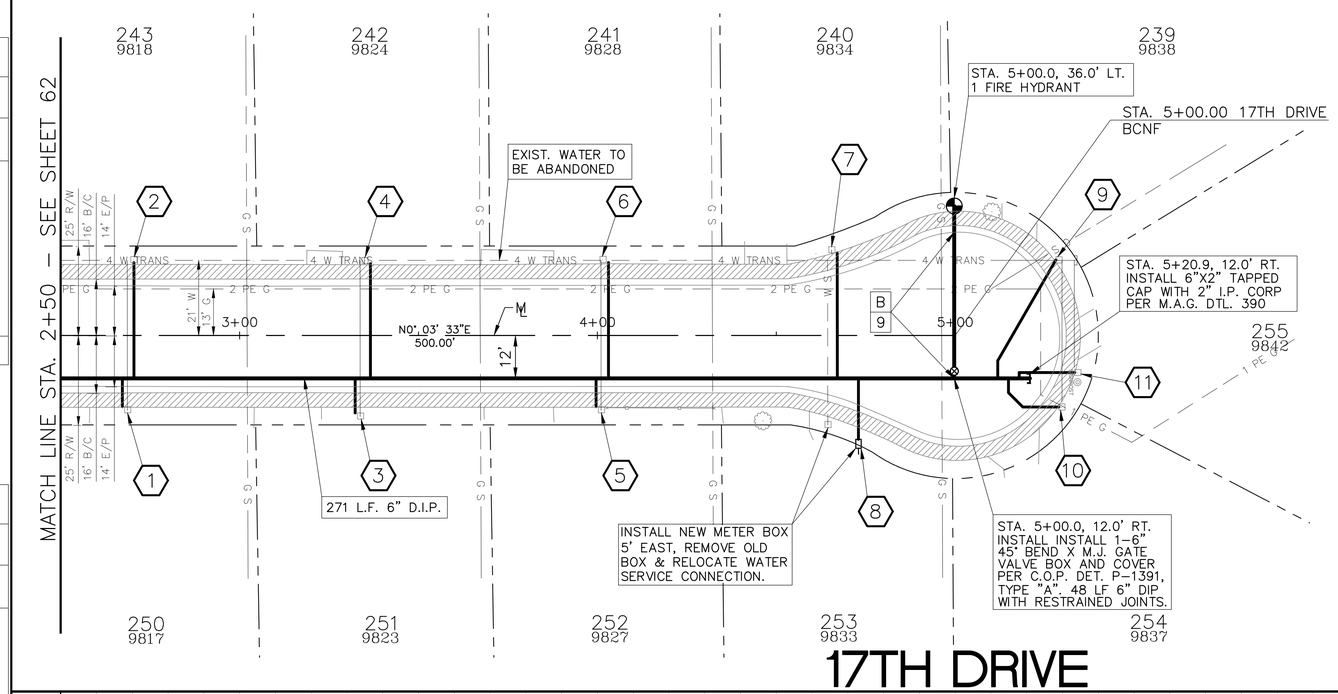
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

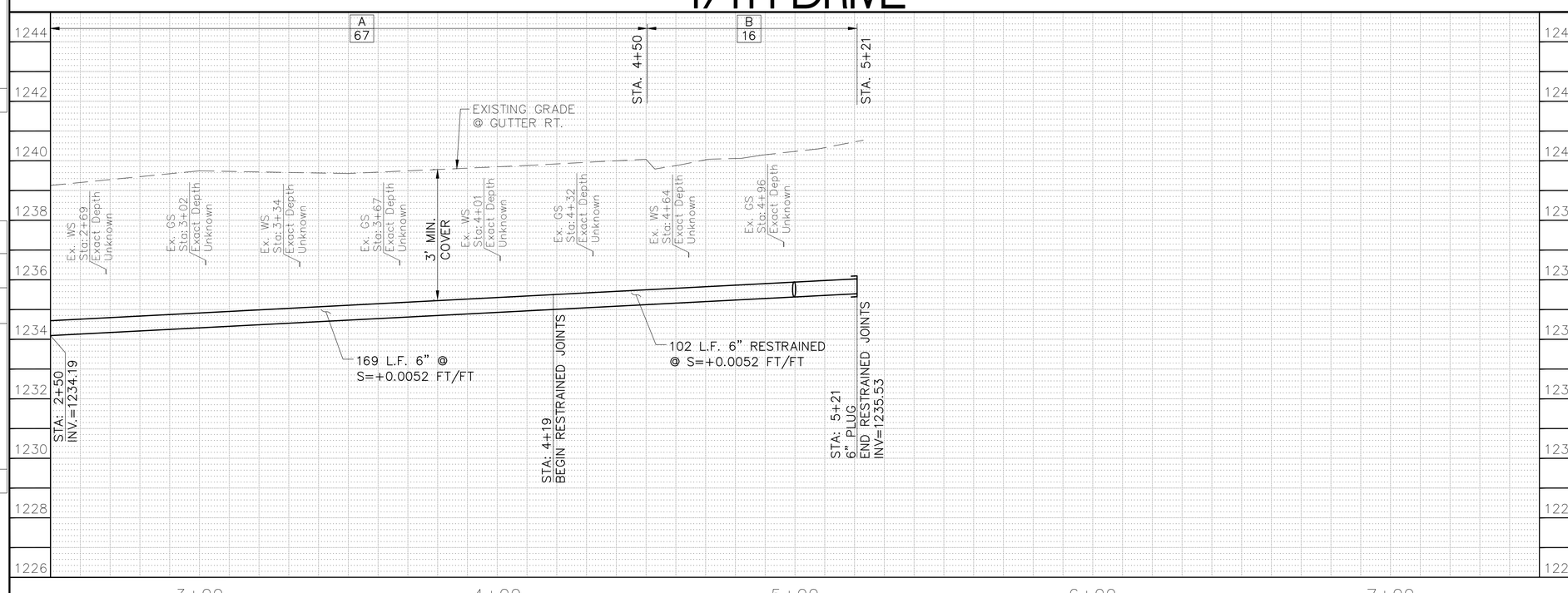
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115127g – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH DRIVE (S)_000-250.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



17TH DRIVE



City of Phoenix
N

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	63	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	2+67	1"	11
2	2+70	1"	35
3	3+32	1"	13
4	3+37	1"	35
5	4+00	1"	11
6	4+03	1"	35
7	4+67	1"	38
8	4+71	1"	20
9	5+28	1"	40
10	5+29	1"	23
11	5+33	1"	20

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:
RELOCATED WATER METER LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATIONS SHALL BE COORDINATED WITH THE CITY OF PHOENIX.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

REGISTRATION NUMBER

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH DRIVE
STA. 2+50 - END
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	63	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

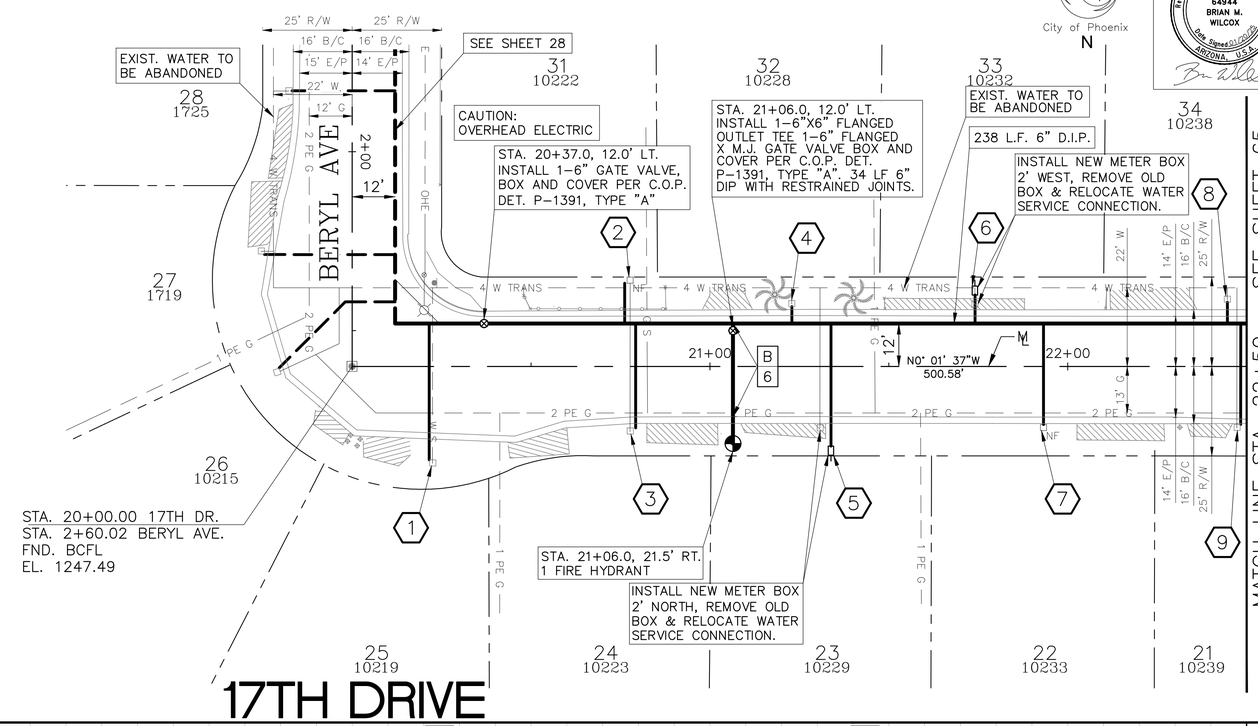
NO.	DESCRIPTION	REV BY	CKD BY	DATE

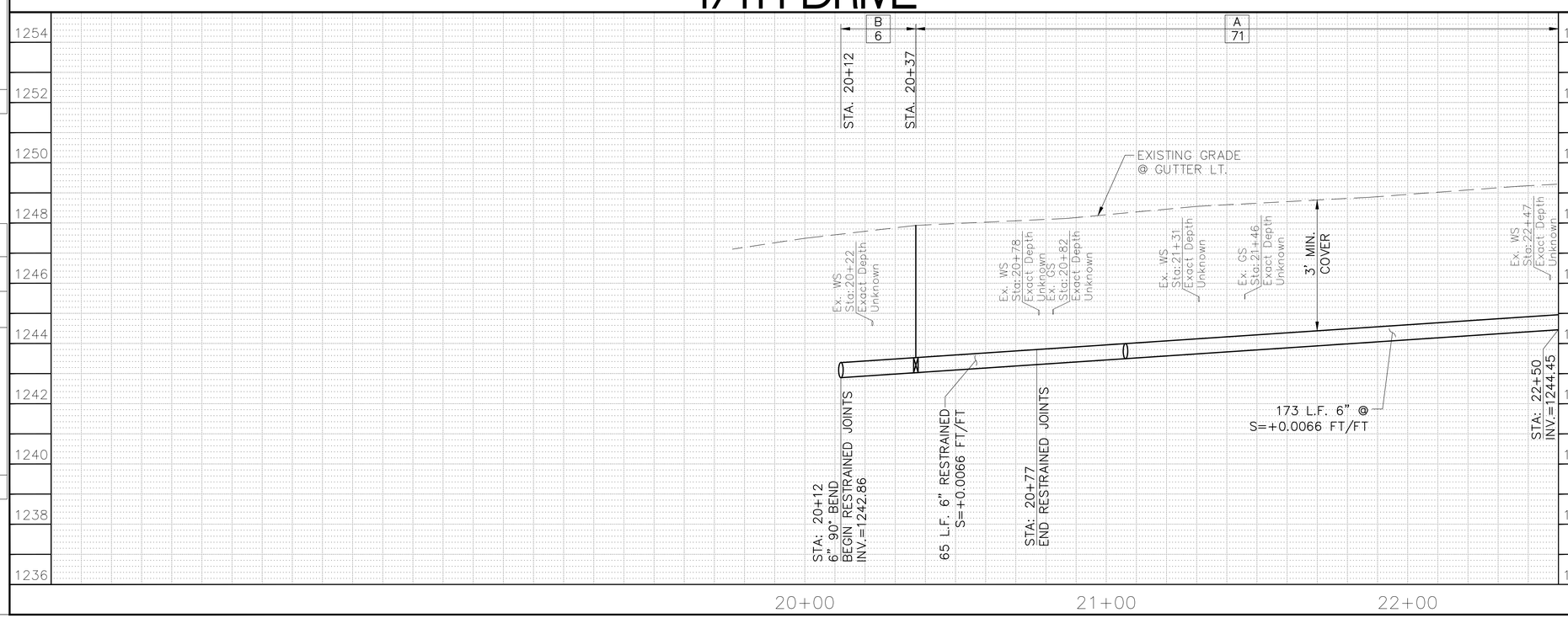
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115172g – wmr – mountain view & 15th ave\da_production\Cadd\09_Water\WS85509031_17TH DRIVE (S)_250-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	64	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/20/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	20+22	1"	41
2	20+76	1"	14
3	20+79	1"	32
4	21+23	1"	8
5	21+35	1"	38
6	21+74	1"	11
7	21+93	1"	31
8	22+45	1"	9
9	22+48	1"	31

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH DRIVE
STA. 20+00 - STA. 22+50
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	64	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

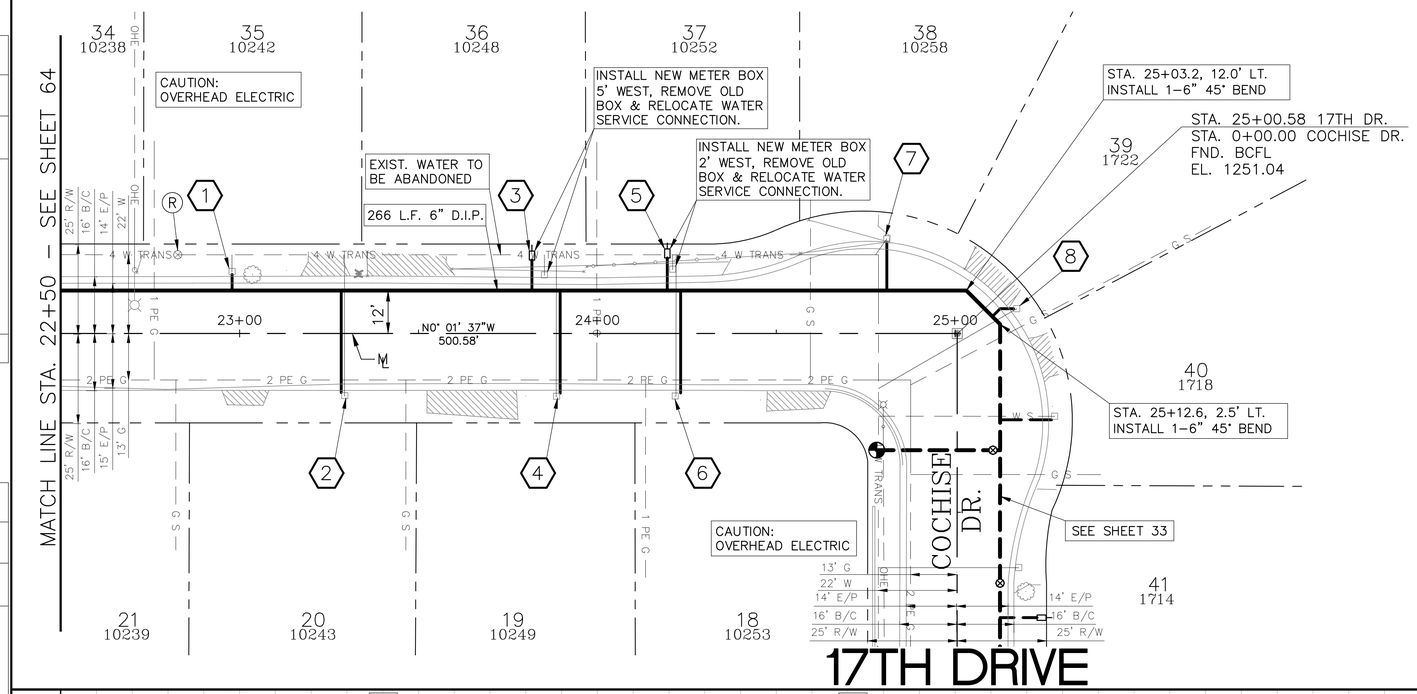
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cad\09_Water\WS85509031_17TH DRIVE (N)_2000-2250.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	65	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	22+98	1"	7
2	23+28	1"	32
3	23+81	1"	11
4	23+90	1"	32
5	24+18	1"	11
6	24+23	1"	32
7	24+81	1"	17
8	25+17	1"	10

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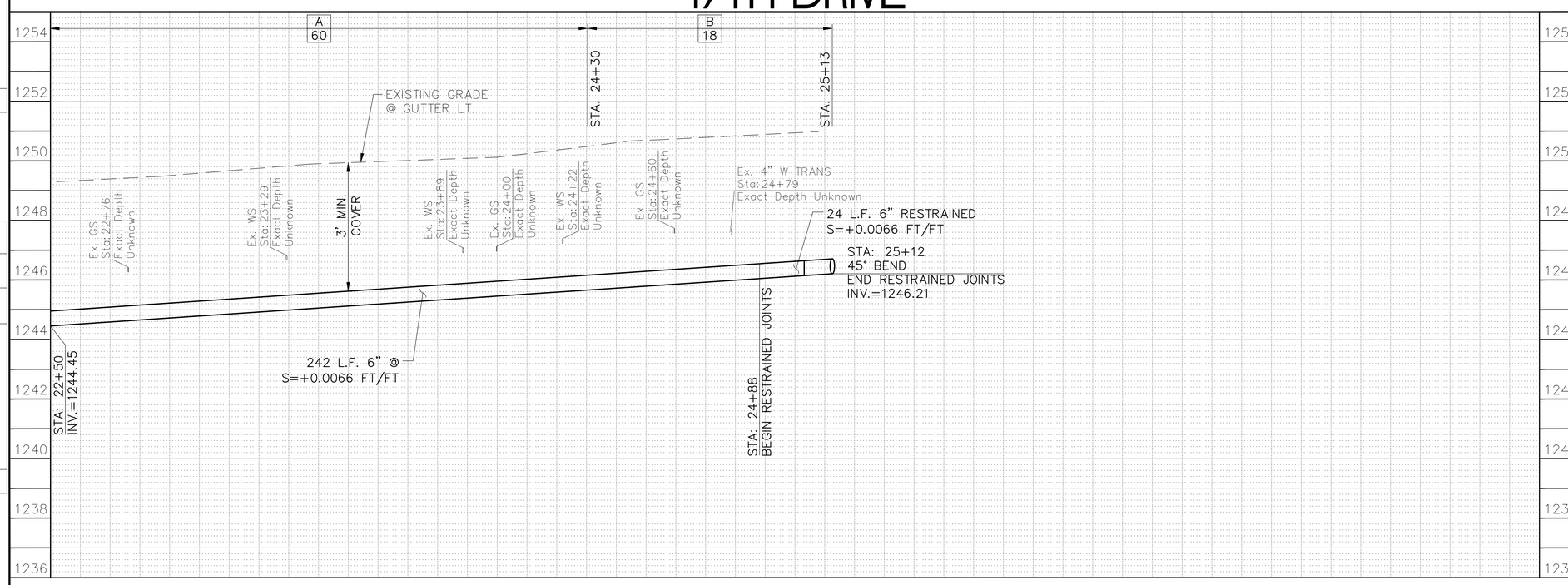

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH DRIVE
STA. 22+50 - END
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	65	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

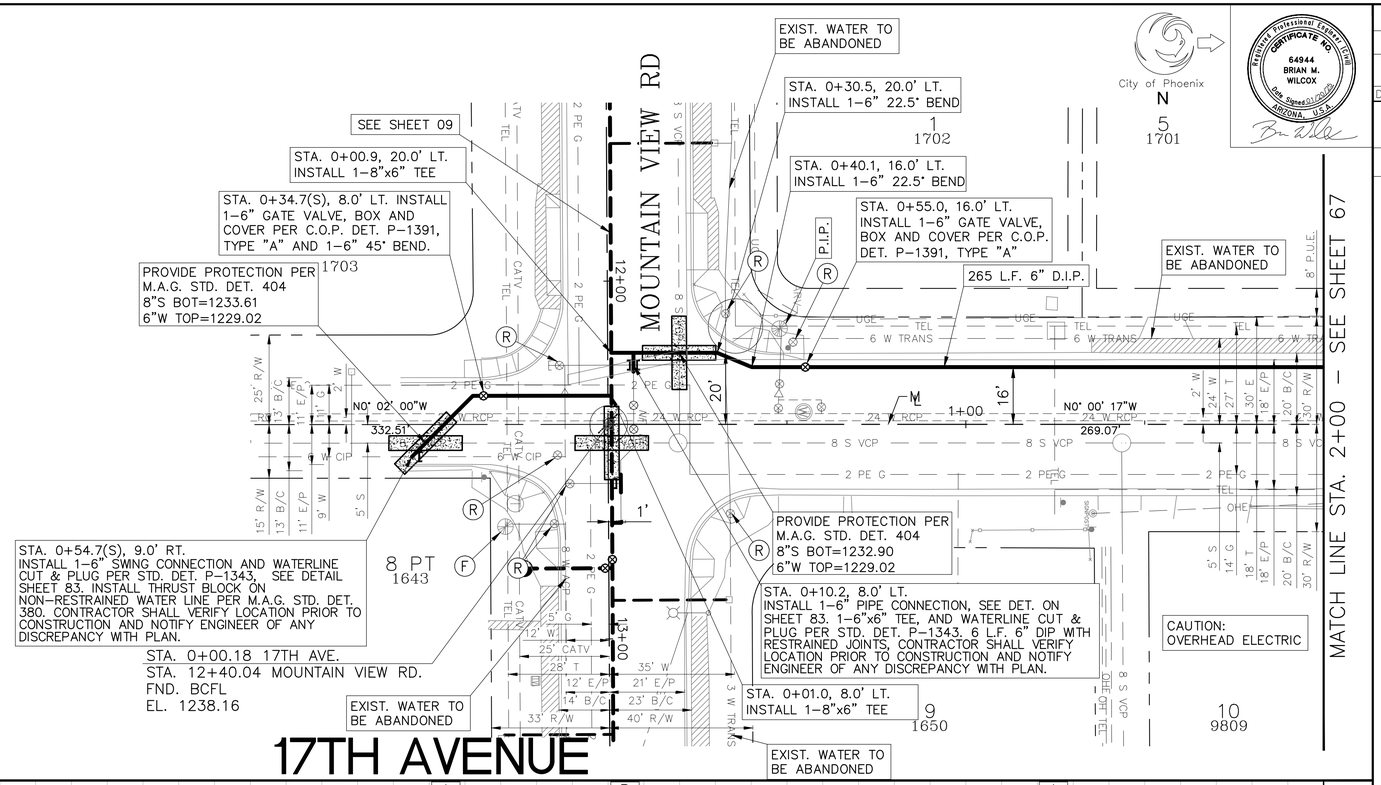
NO.	DESCRIPTION	REV BY	CKD BY	DATE

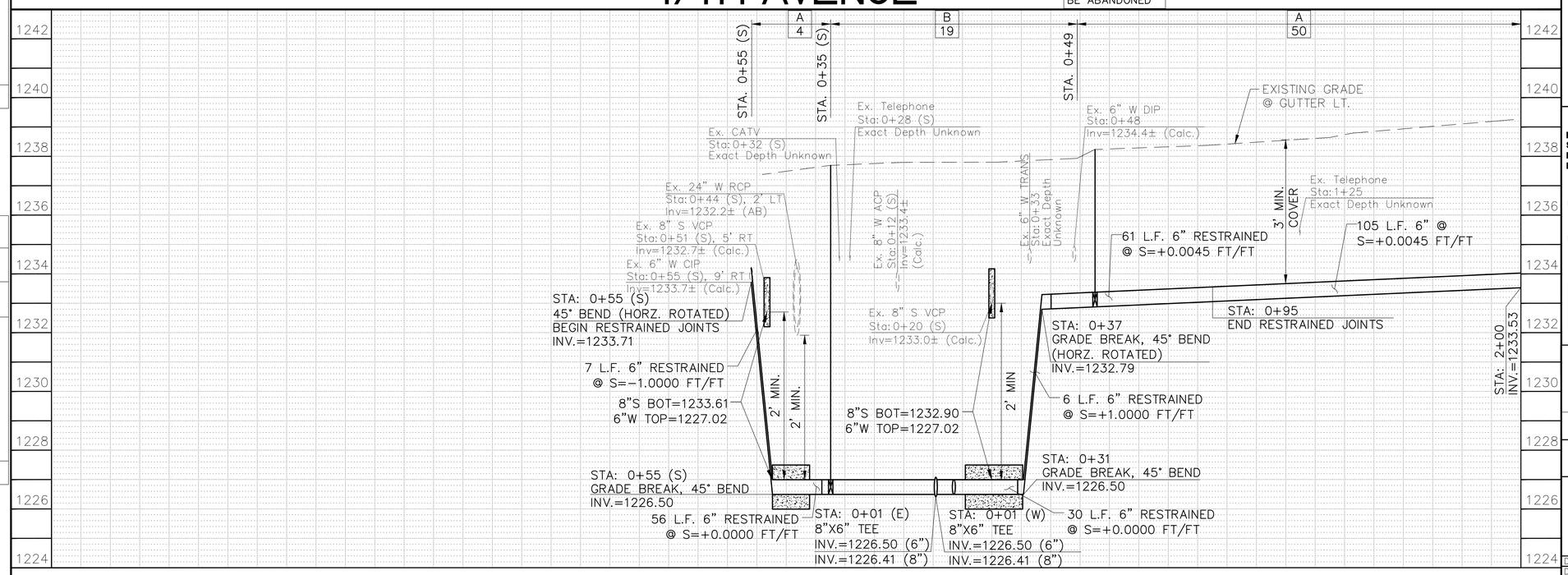
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH DRIVE_(N)_2250–END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	66	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH AVENUE
STA. 0+00 - STA. 2+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	66	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

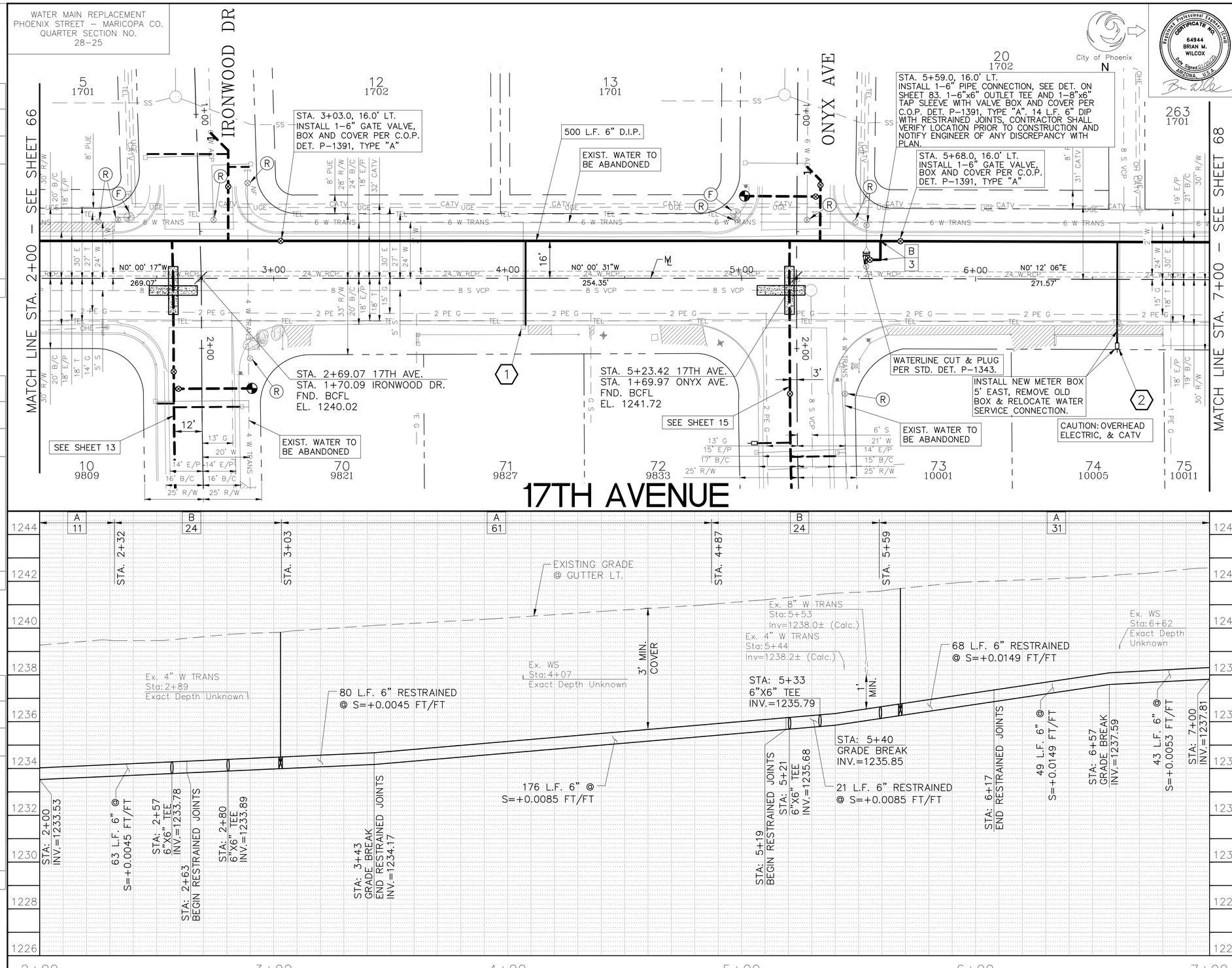
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115173a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH AVE_000–200.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	67	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	4+08	1"	39
2	6+61	1"	45

NOTE:
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REGISTERED ENGINEER **DATE**

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH AVENUE
STA. 2+00 - STA. 7+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	67	83

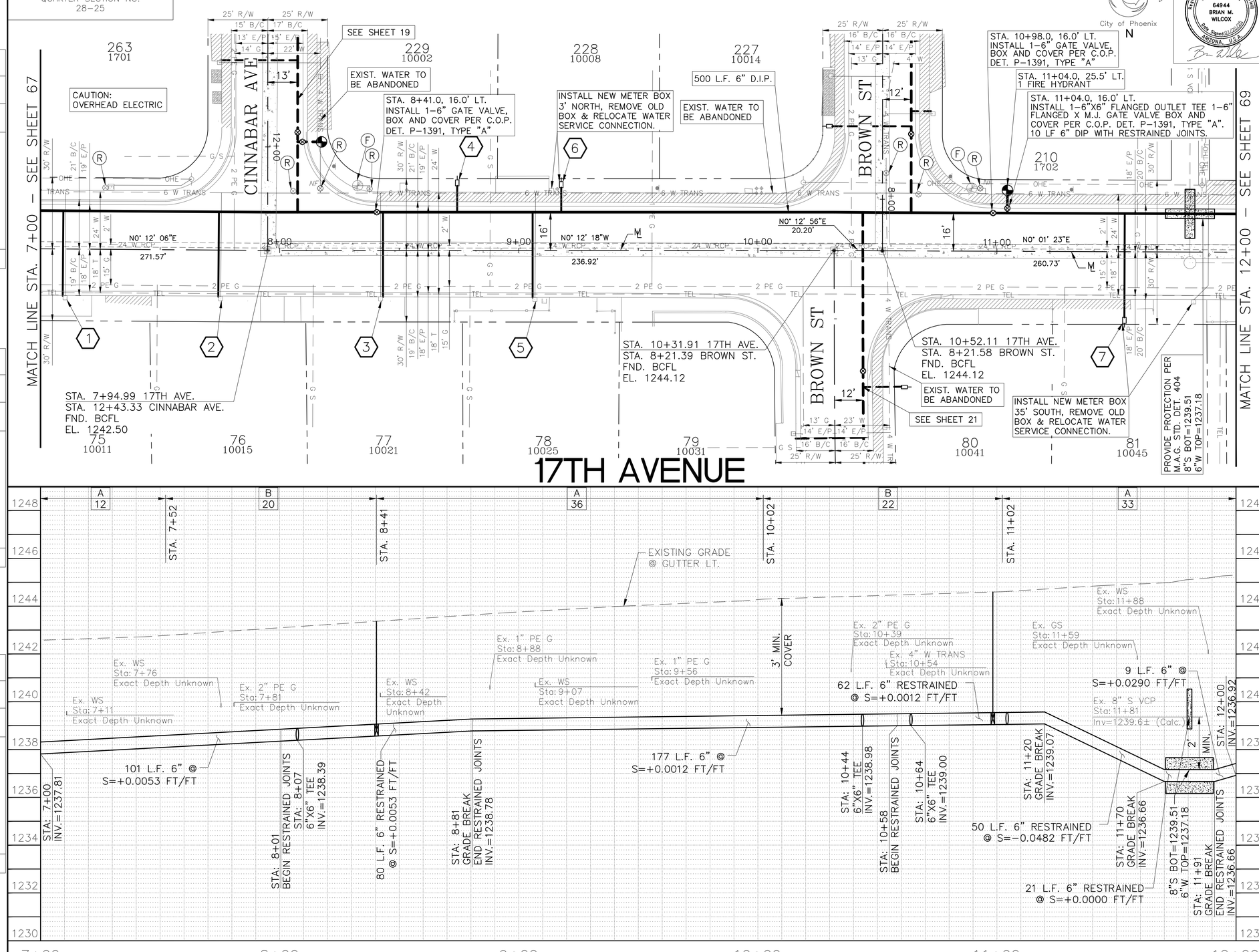
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH AVE_200-700.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	68	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	7+10	1"	39
2	7+74	1"	38
3	8+43	1"	38
4	8+75	1"	11
5	9+06	1"	39
6	9+18	1"	11
7	11+48	1"	42

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH AVENUE
STA. 7+00 - STA. 12+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	68	83

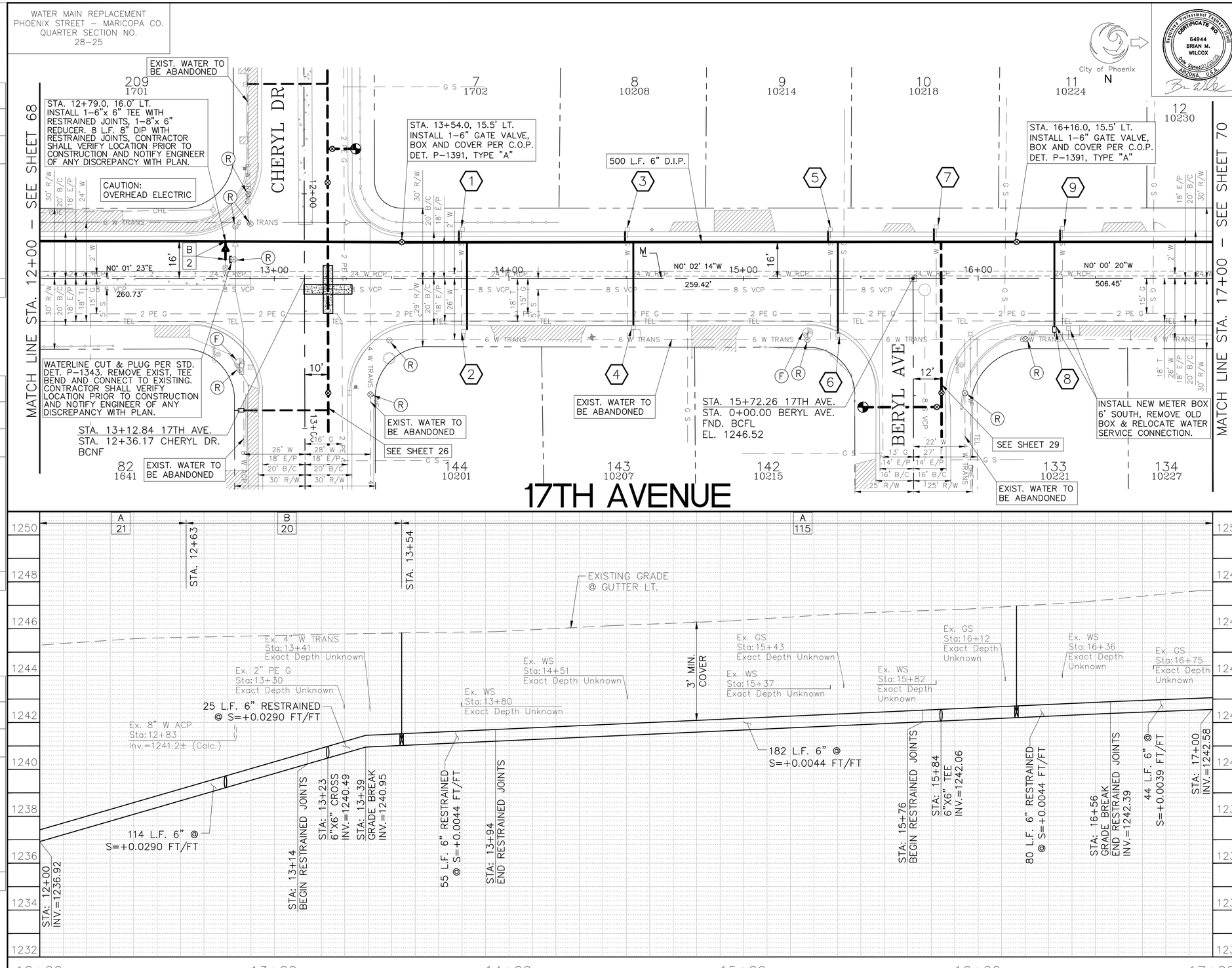
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH AVE_700-1200.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	69	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	13+79	1"	8
2	13+82	1"	40
3	14+50	1"	7
4	14+53	1"	38
5	15+36	1"	8
6	15+40	1"	42
7	15+81	1"	9
8	16+33	1"	39
9	16+35	1"	8

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH AVENUE
STA. 12+00 - STA. 17+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	69	83

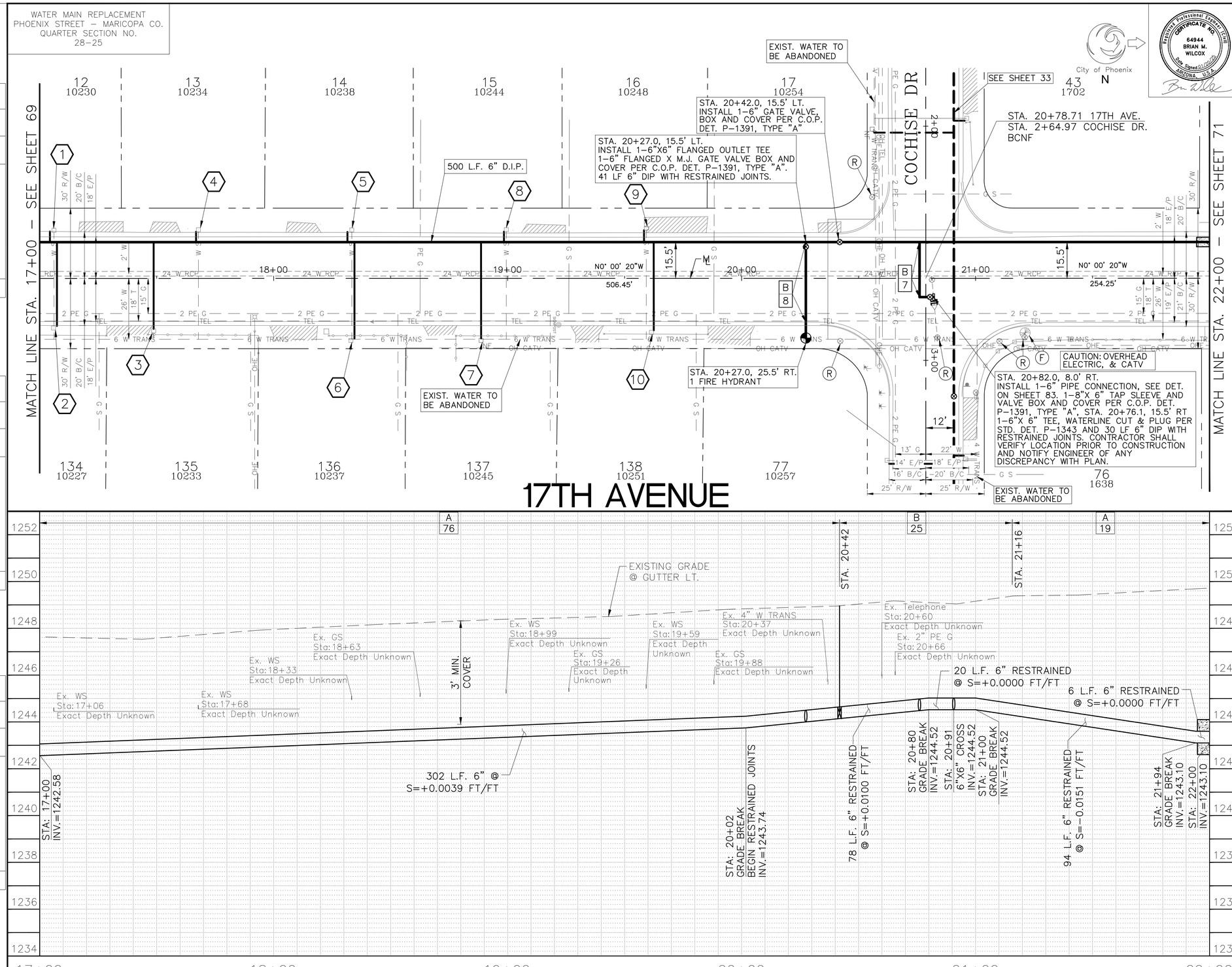
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH AVE_1200-1700.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	70	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	17+04	1"	8
2	17+07	1"	39
3	17+49	1"	40
4	17+67	1"	7
5	18+32	1"	7
6	18+35	1"	44
7	18+89	1"	44
8	18+98	1"	7
9	19+58	1"	8
10	19+62	1"	41

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REGISTERED ENGINEER **DATE**

REGISTRATION NUMBER

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Entellus™
3033 N. 44th Street, Suite 250, Phoenix, AZ 85018
Tel: 602.244.2566 / Fax: 602.244.8947
www.entellus.com

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH AVENUE
STA. 17+00 - STA. 22+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	70	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

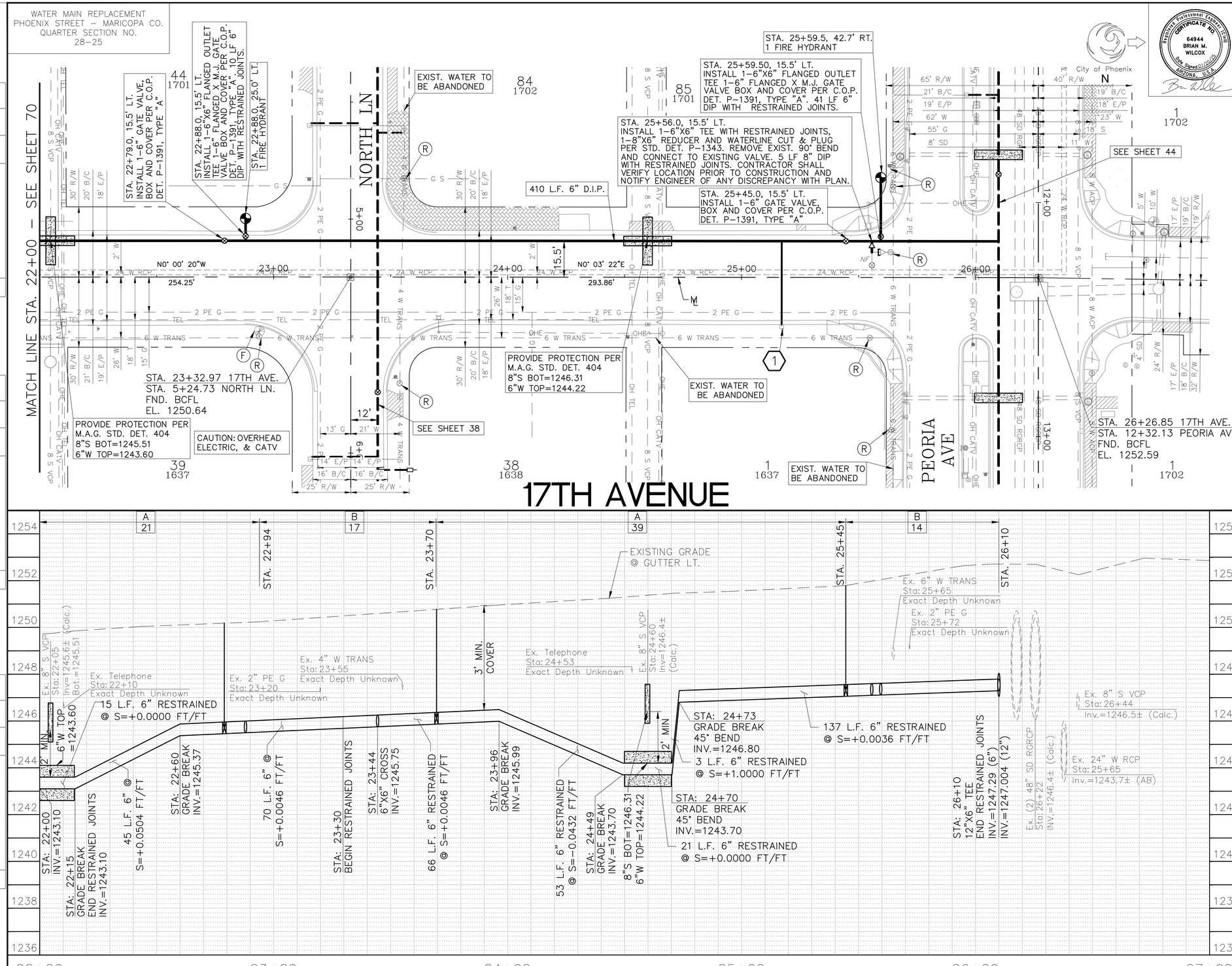
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH AVE_1700–2200.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	71	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	25+17	1"	39

NOTE:
ALL WATER METERS ARE TO INCLUDE NEW #2 BOXES AND HOUSING, UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:
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AS-BUILT CERTIFICATION

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

17TH AVENUE
STA. 22+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	71	83

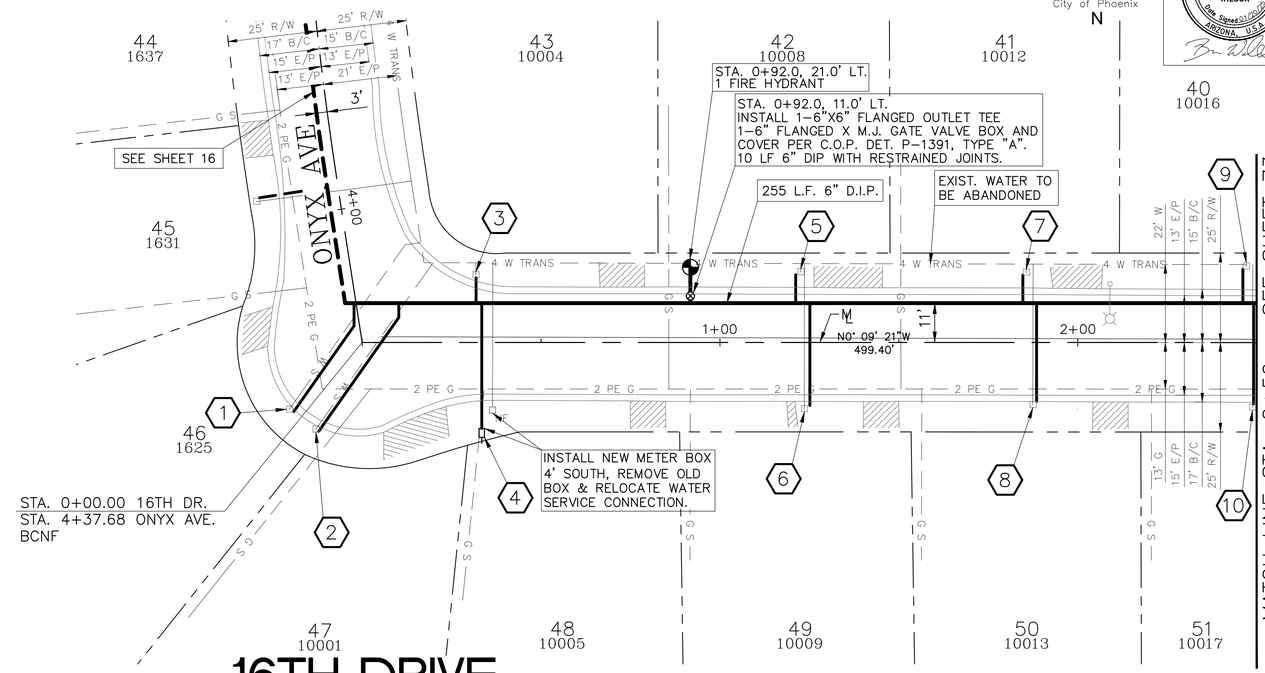
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

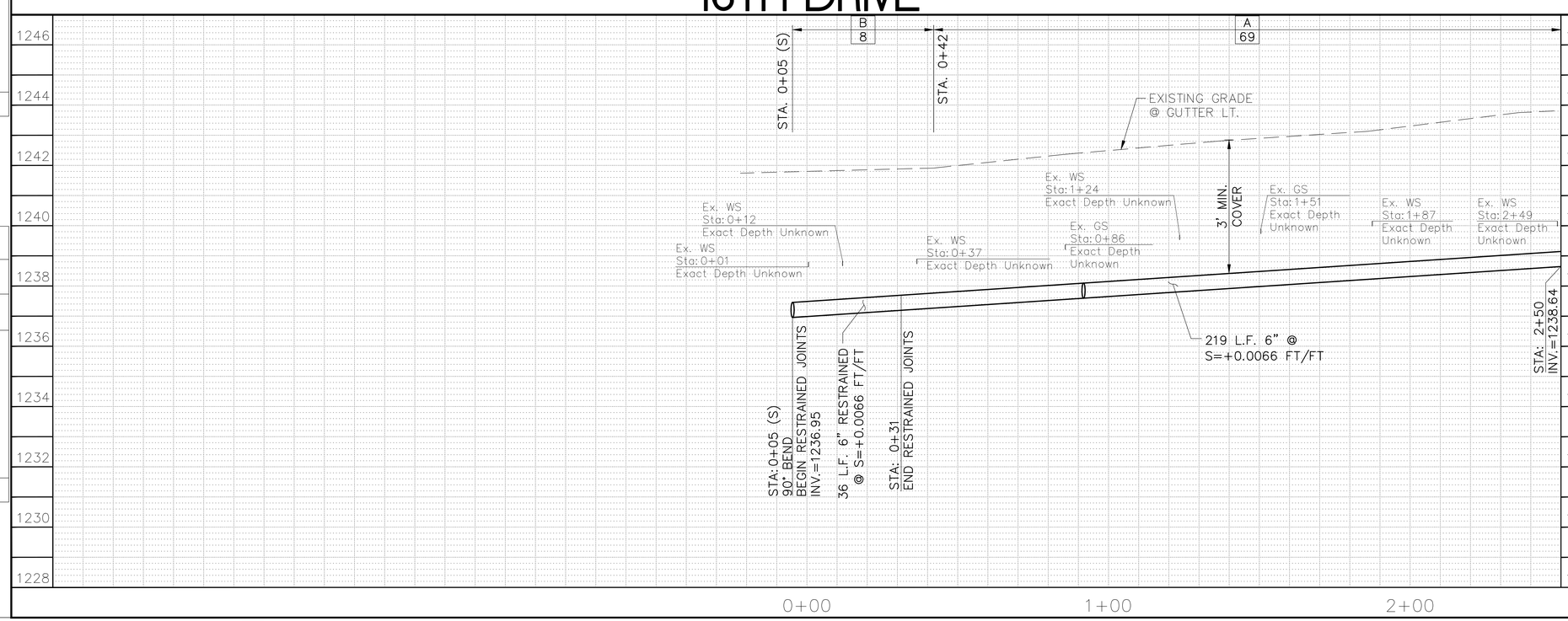
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_17TH AVE_2200-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	72	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/21/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+19 (S)	1"	41
2	0+12 (S)	1"	45
3	0+32	1"	10
4	0+34	1"	38
5	1+21	1"	11
6	1+25	1"	32
7	1+85	1"	11
8	1+88	1"	30
9	2+46	1"	13
10	2+49	1"	31

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH DRIVE
STA. 0+00 - STA. 2+50

WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	72	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

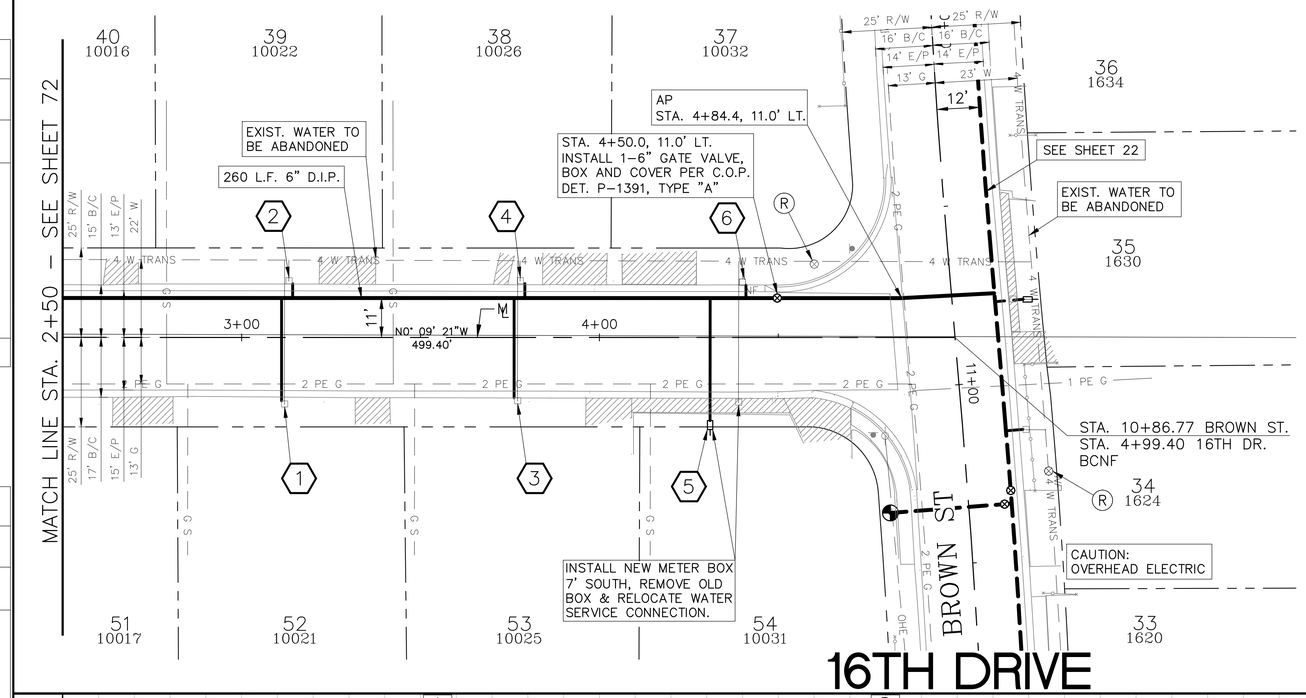
NO.	DESCRIPTION	REV BY	CKD BY	DATE

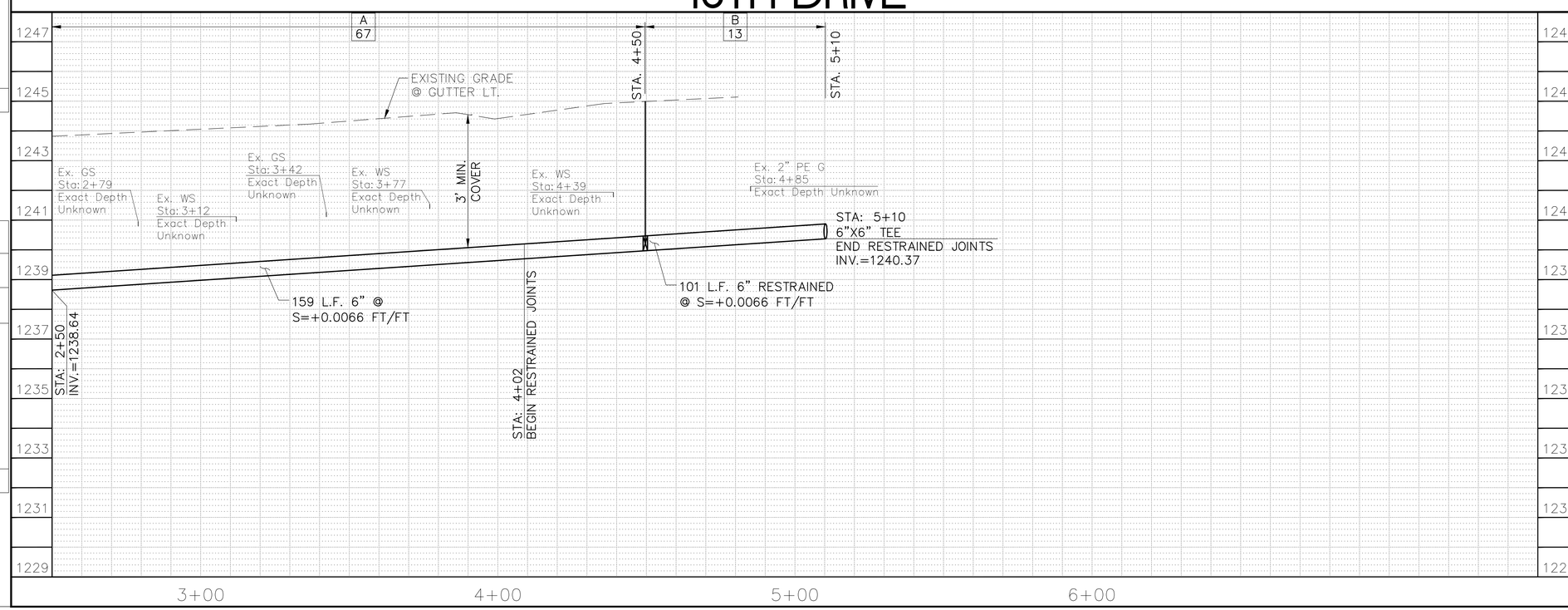
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\da_production\Cadd\09_Water\WS85509031_16TH DRIVE_(S)_000-250.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





City of Phoenix
N

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	73	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	3+11	1"	31
2	3+14	1"	7
3	3+76	1"	31
4	3+79	1"	7
5	4+30	1"	38
6	4+41	1"	7

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH DRIVE
STA. 2+50 - END
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	73	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

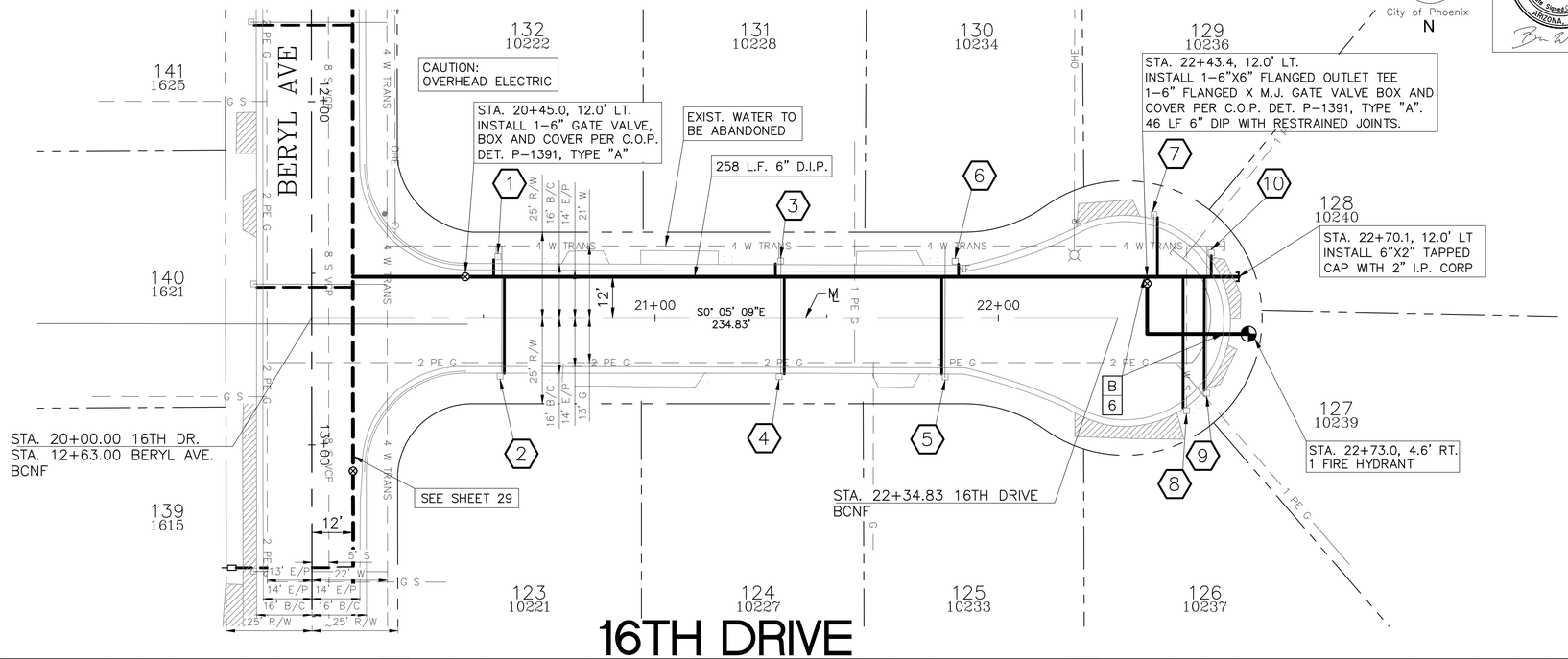
NO.	DESCRIPTION	REV BY	CKD BY	DATE

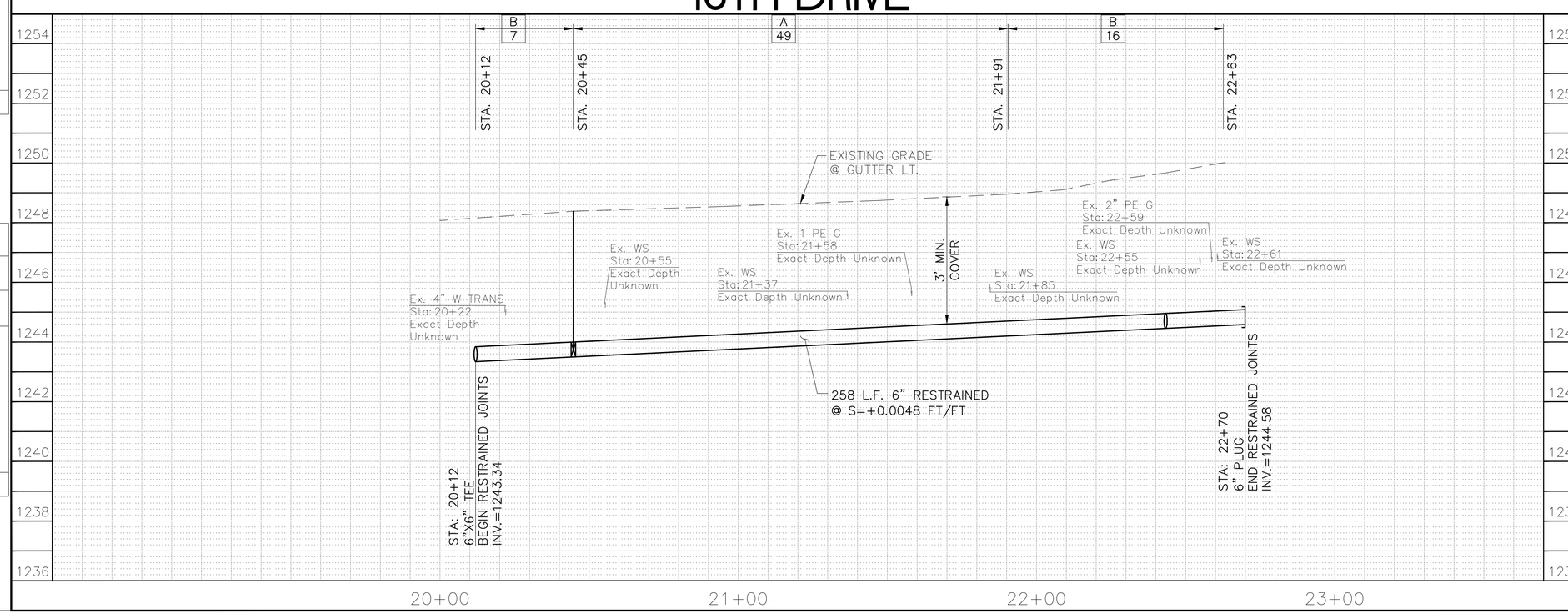
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115172g – wmr – mountain view & 15th ave\da_production\Cadd\09_Water\WS85509031_16TH DRIVE (S)_250-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	74	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	20+53	1"	8
2	20+56	1"	31
3	21+35	1"	7
4	21+38	1"	31
5	21+84	1"	31
6	21+88	1"	7
7	22+46	1"	20
8	22+54	1"	41
9	22+60	1"	36
10	22+62	1"	9

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH DRIVE
STA. 20+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	74	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

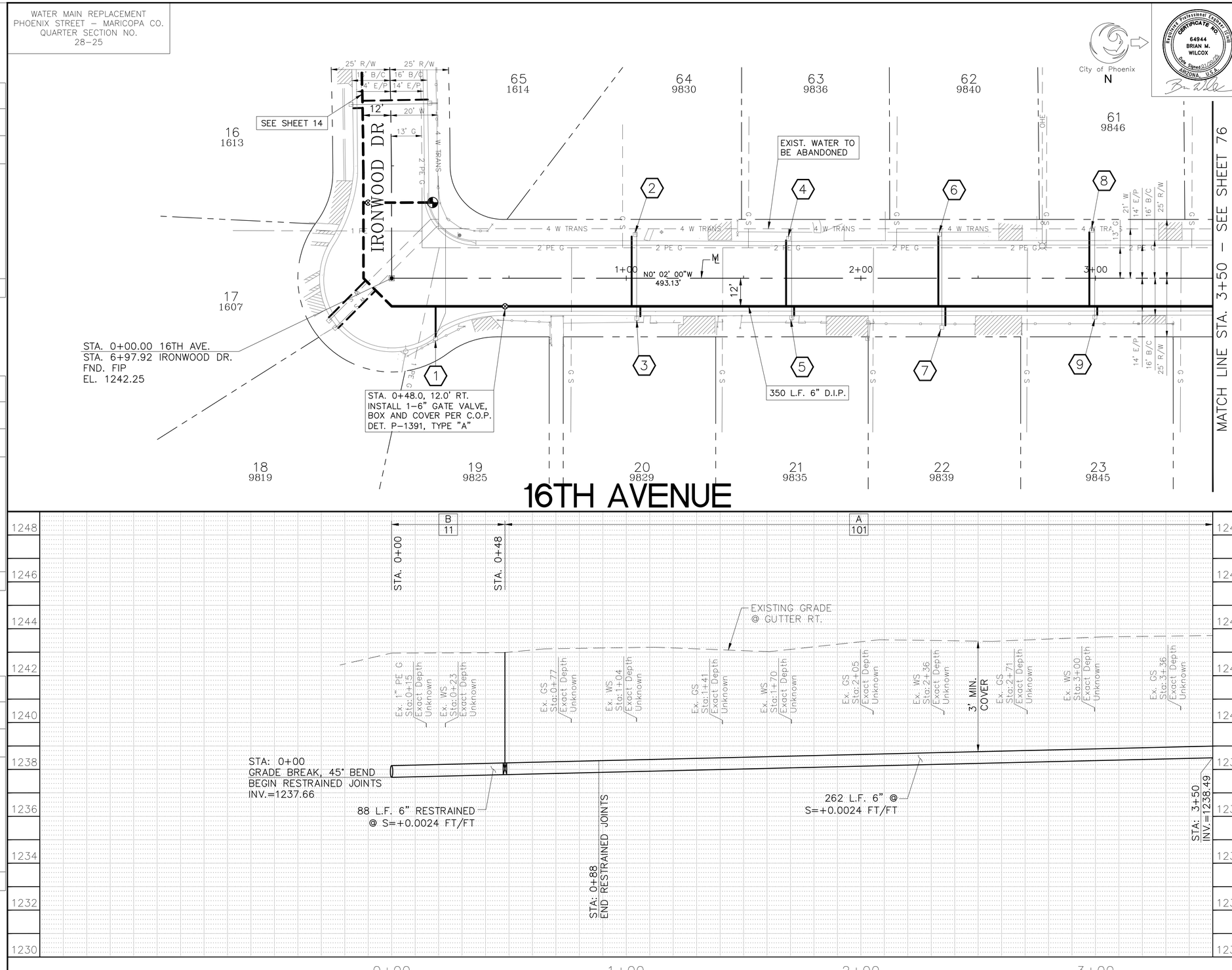
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\da_production\Cadd\09_Water\WS85509031_16TH DRIVE (N)_2000–END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	75	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM	DR: CAM	CK: BW	DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+19	1"	16
2	1+02	1"	33
3	1+06	1"	7
4	1+68	1"	31
5	1+72	1"	7
6	2+33	1"	33
7	2+36	1"	11
8	2+97	1"	35
9	3+01	1"	7

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH AVENUE
STA. 0+00 - STA. 3+50
WS85509031

DES:CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	75	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

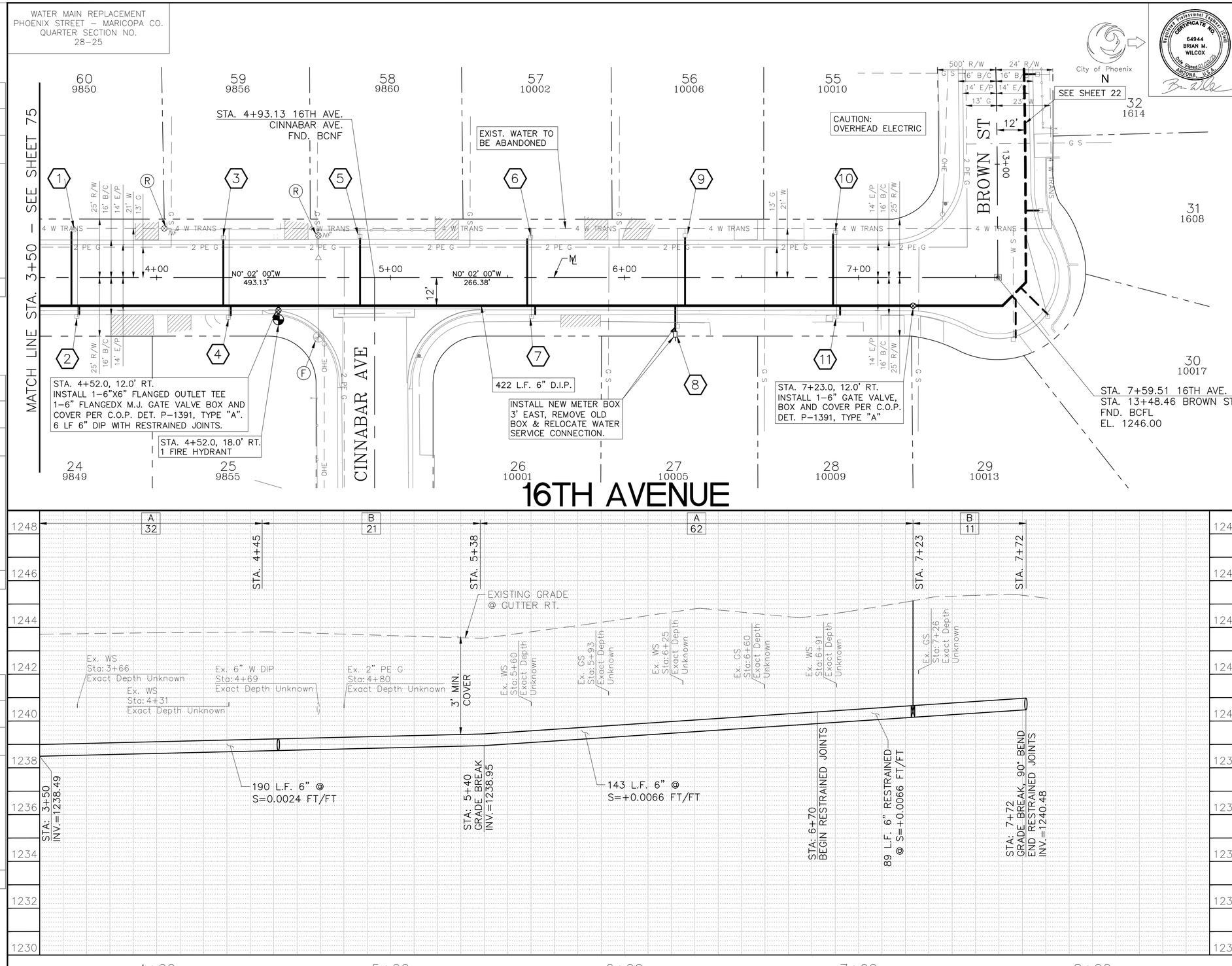
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_16TH AVE (S)_000–350.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	76	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	3+64	1"	35
2	3+67	1"	7
3	4+28	1"	31
4	4+32	1"	7
5	4+87	1"	32
6	5+58	1"	31
7	5+62	1"	7
8	6+22	1"	11
9	6+27	1"	32
10	6+89	1"	33
11	6+92	1"	7

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH AVENUE
STA. 3+50 - END
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	76	83

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

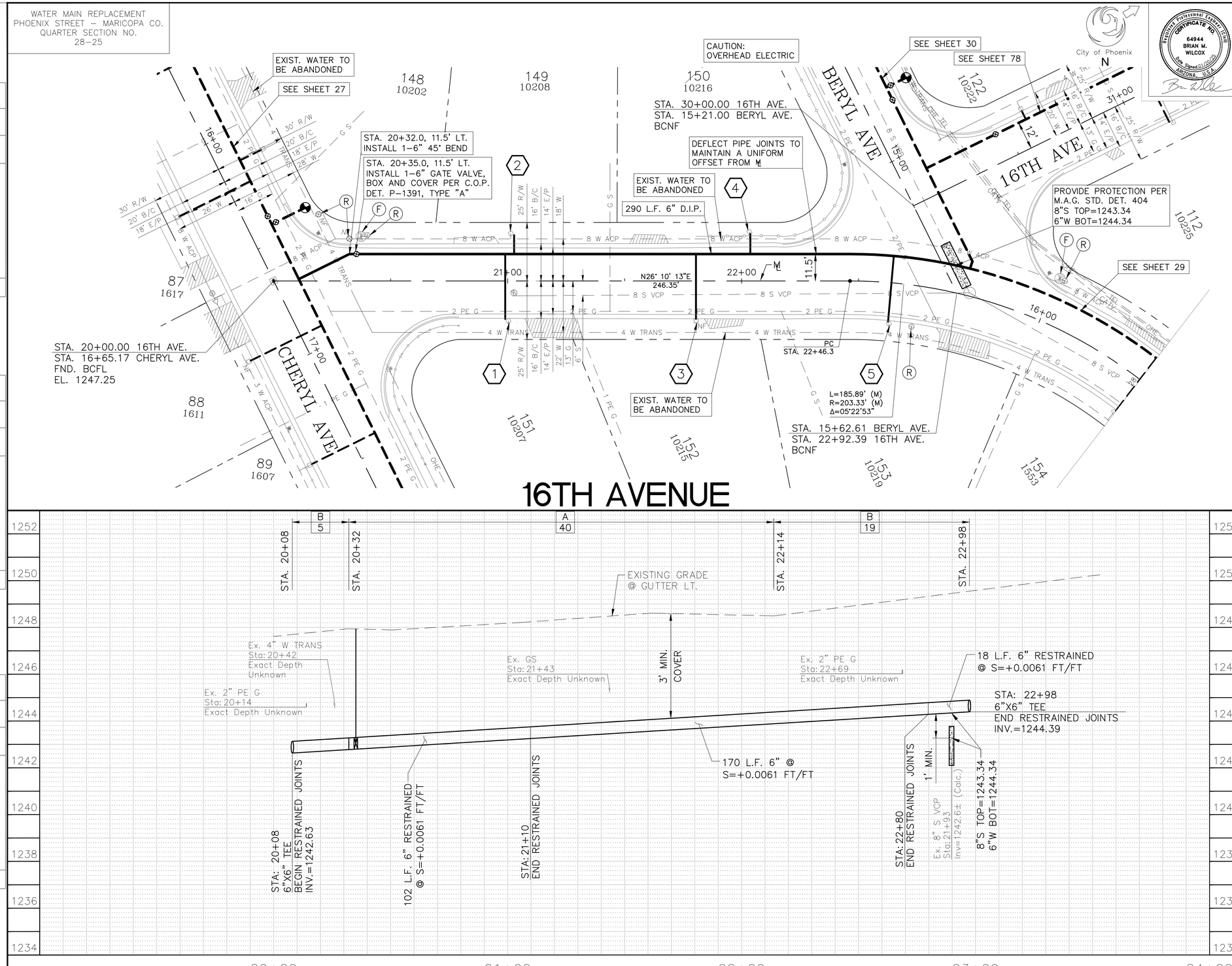
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_16TH AVE (S)_350-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	77	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	20+99	1"	31
2	21+03	1"	11
3	21+81	1"	31
4	22+04	1"	12
5	22+64	1"	31

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH AVENUE
STA. 20+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	77	83

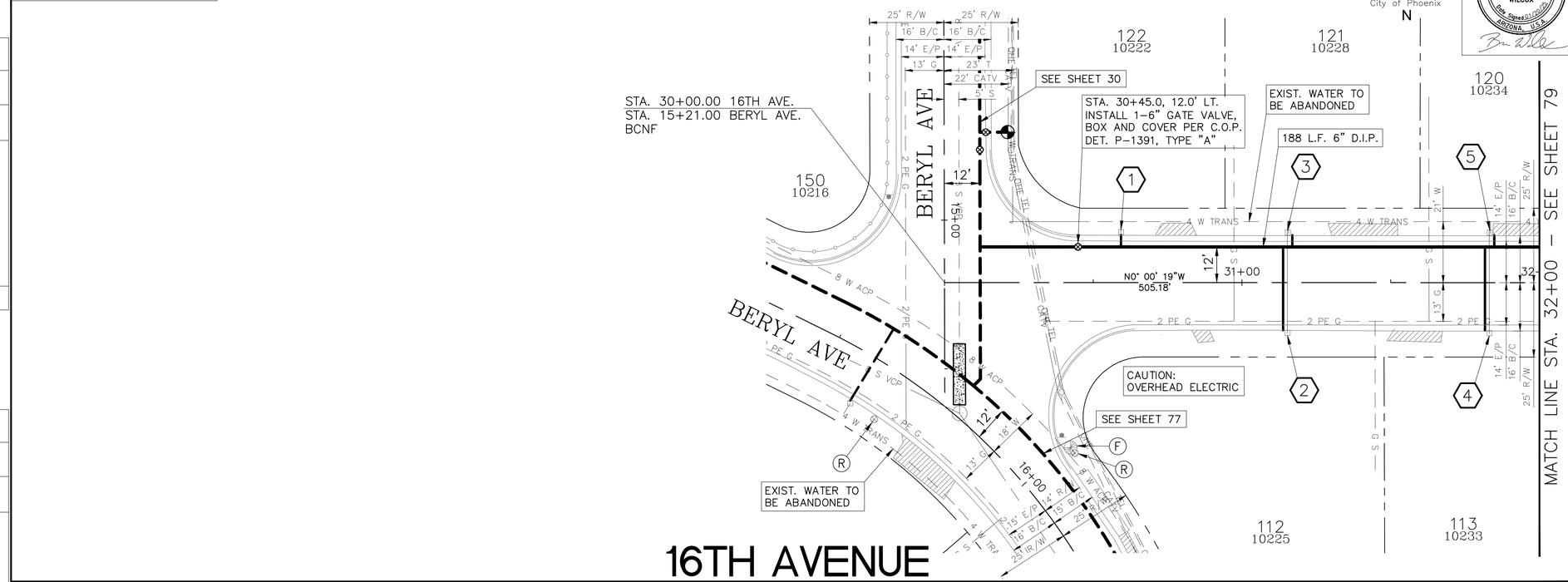
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

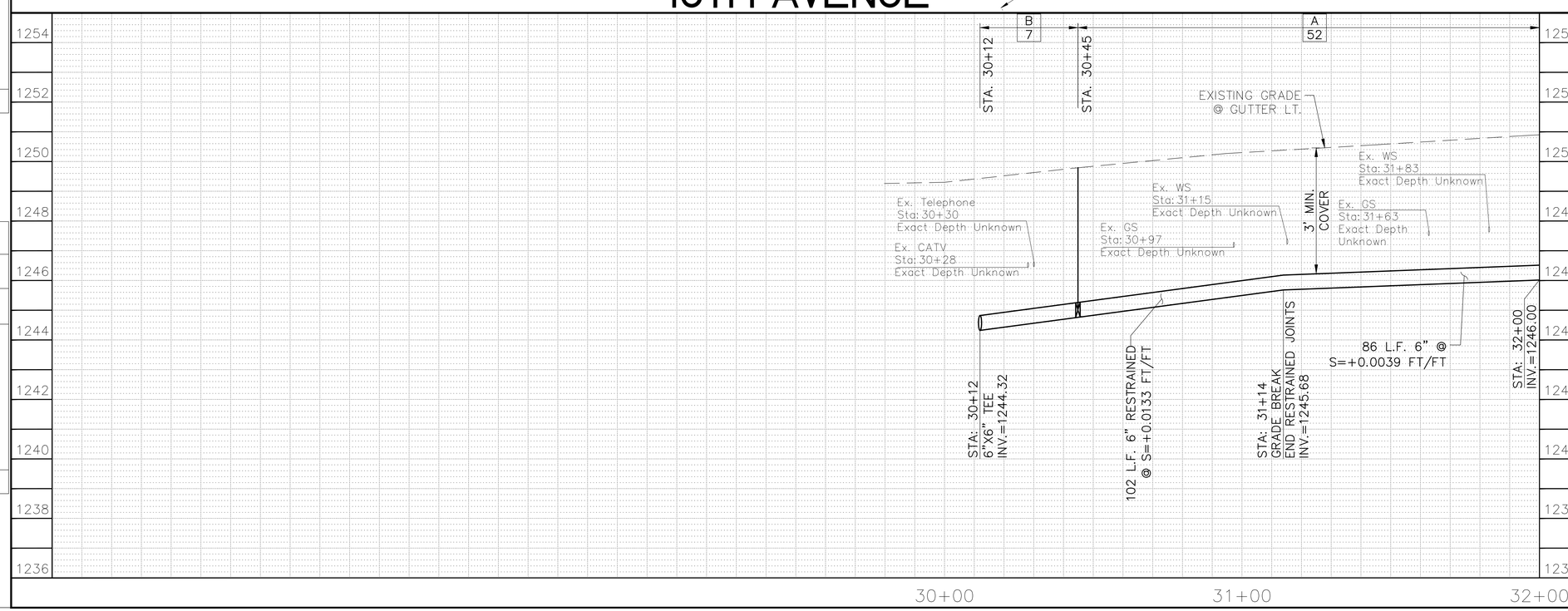
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_16TH AVE (CNTR)_2000-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	78	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/20/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	30+59	1"	7
2	31+14	1"	31
3	31+17	1"	7
4	31+82	1"	31
5	31+85	1"	7

NOTE:
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NOTE:
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AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE 'AS-BUILT' 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 **DATE**

REGISTRATION NUMBER

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH AVENUE
STA. 30+00 - STA. 32+00
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	78	83
SCALE: 1" = 20' HORIZONTAL, 1" = 2' VERTICAL				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

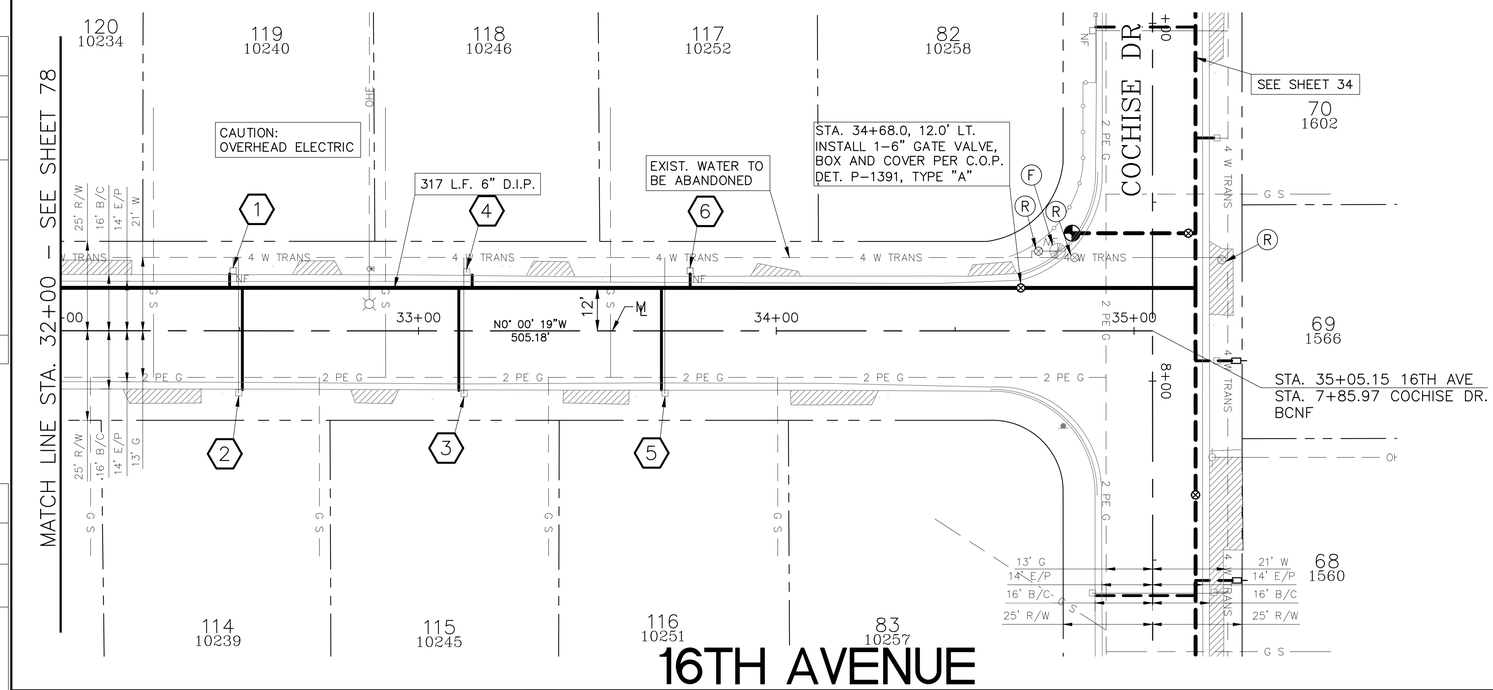
NO.	DESCRIPTION	REV BY	CKD BY	DATE

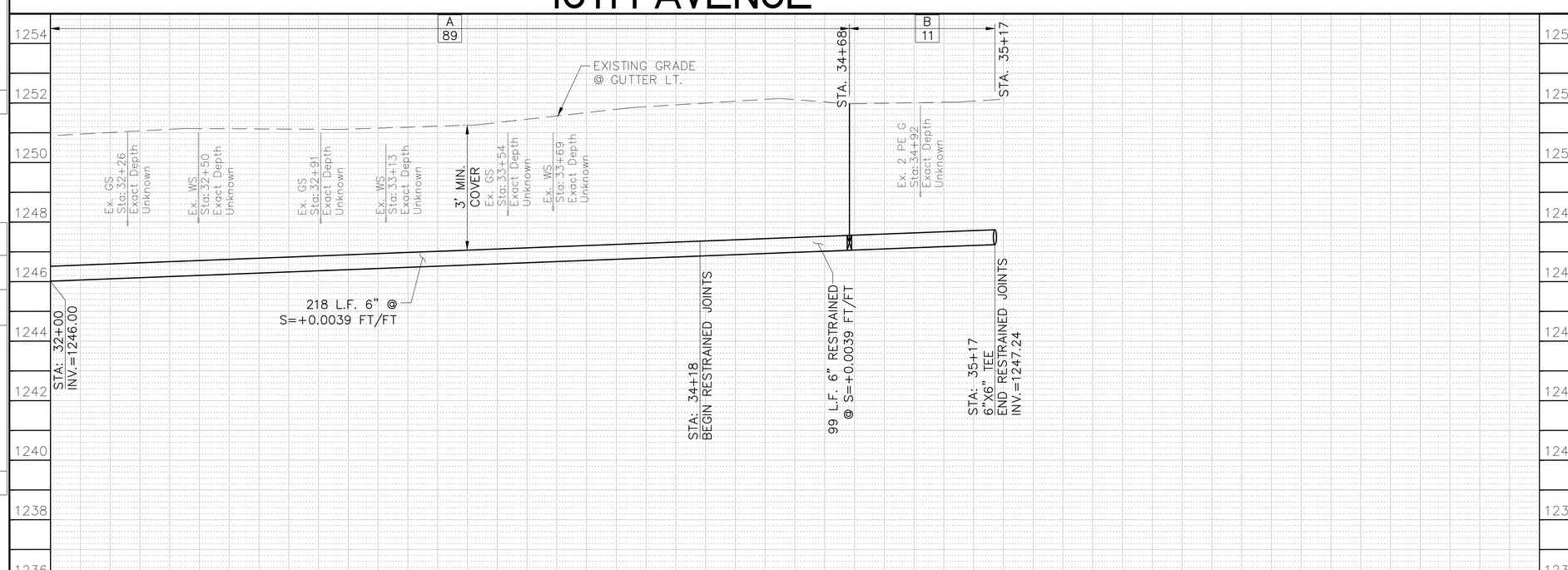
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th. dwg\d_production\Cadd\09_Water\WS85509031_16TH AVE (N)_3000–3200.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25





City of Phoenix
N

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/24/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	79	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	32+47	1"	7
2	32+51	1"	31
3	33+11	1"	32
4	33+15	1"	7
5	33+68	1"	32
6	33+76	1"	7

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

16TH AVENUE
STA. 32+00 - END

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	79	83

SCALE: 1" = 20' HORIZONTAL
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REVISION BY CITY OF PHOENIX

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

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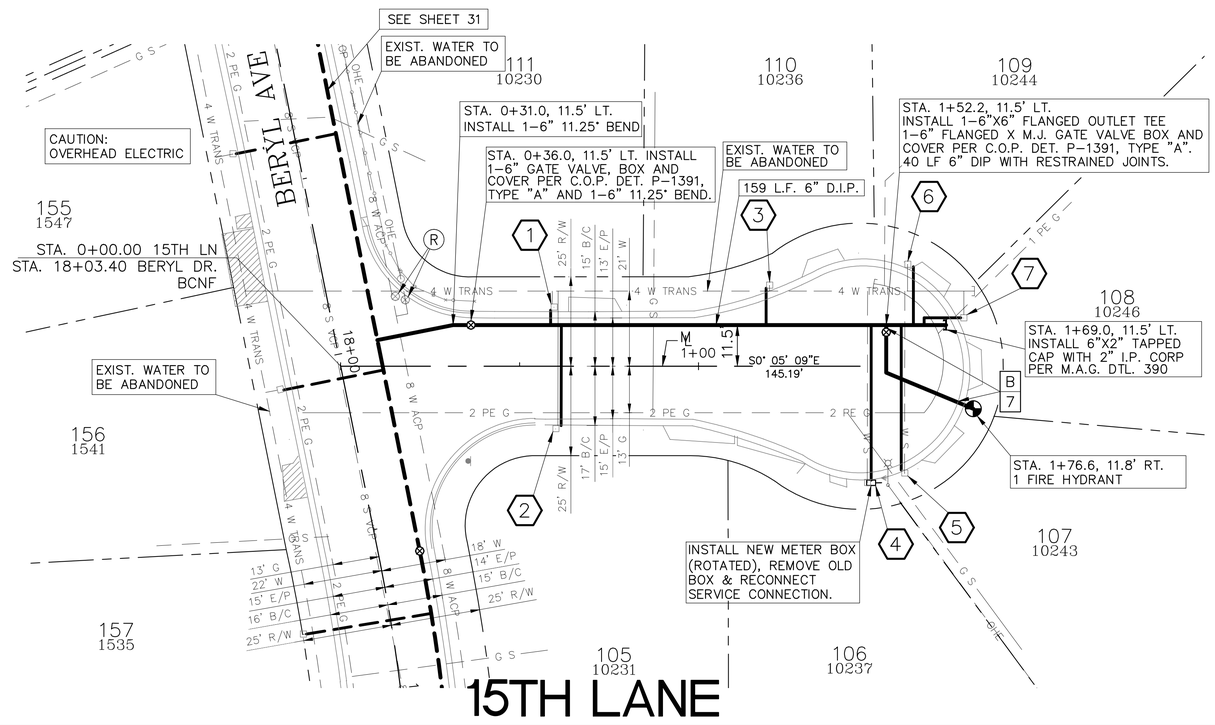
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031_16TH AVE (N)_3200-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	80	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+59	1"	7
2	0+62	1"	31
3	1+19	1"	13
4	1+48	1"	46
5	1+57	1"	43
6	1+60	1"	19
7	1+73	1"	15

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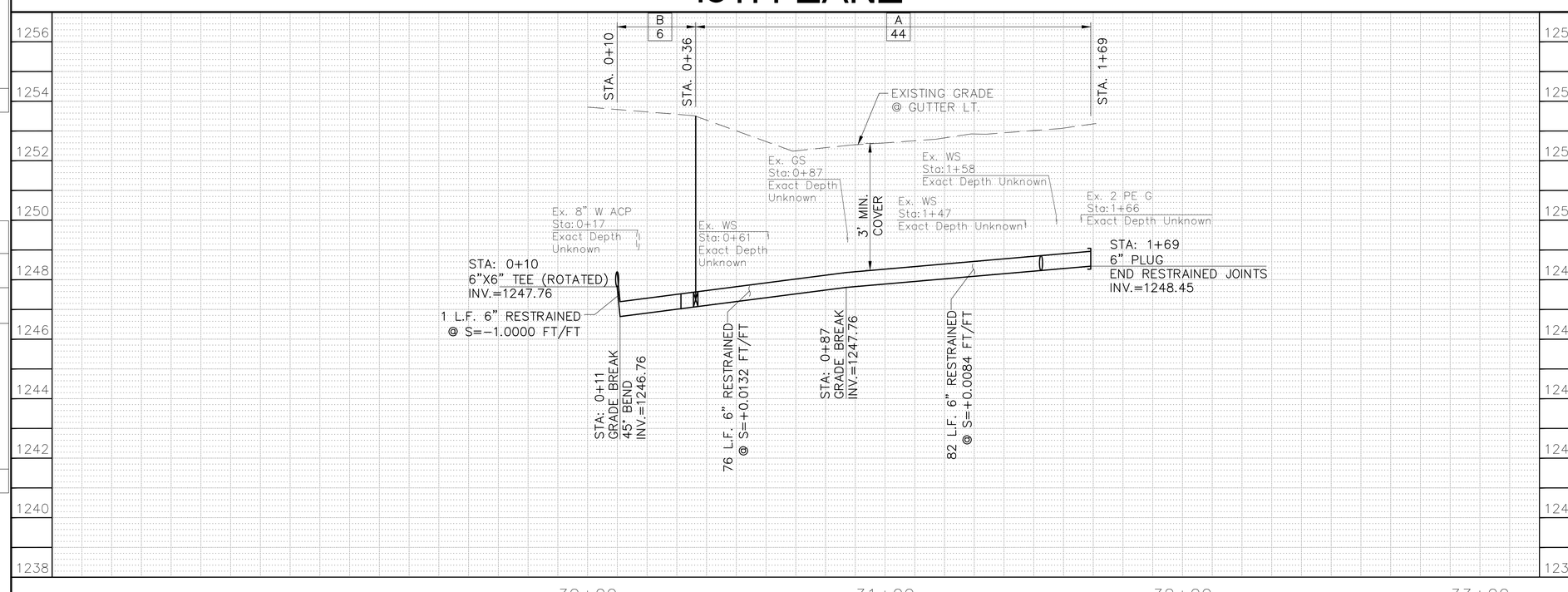

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

15TH LANE
STA. 0+00 - END
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025	80	83

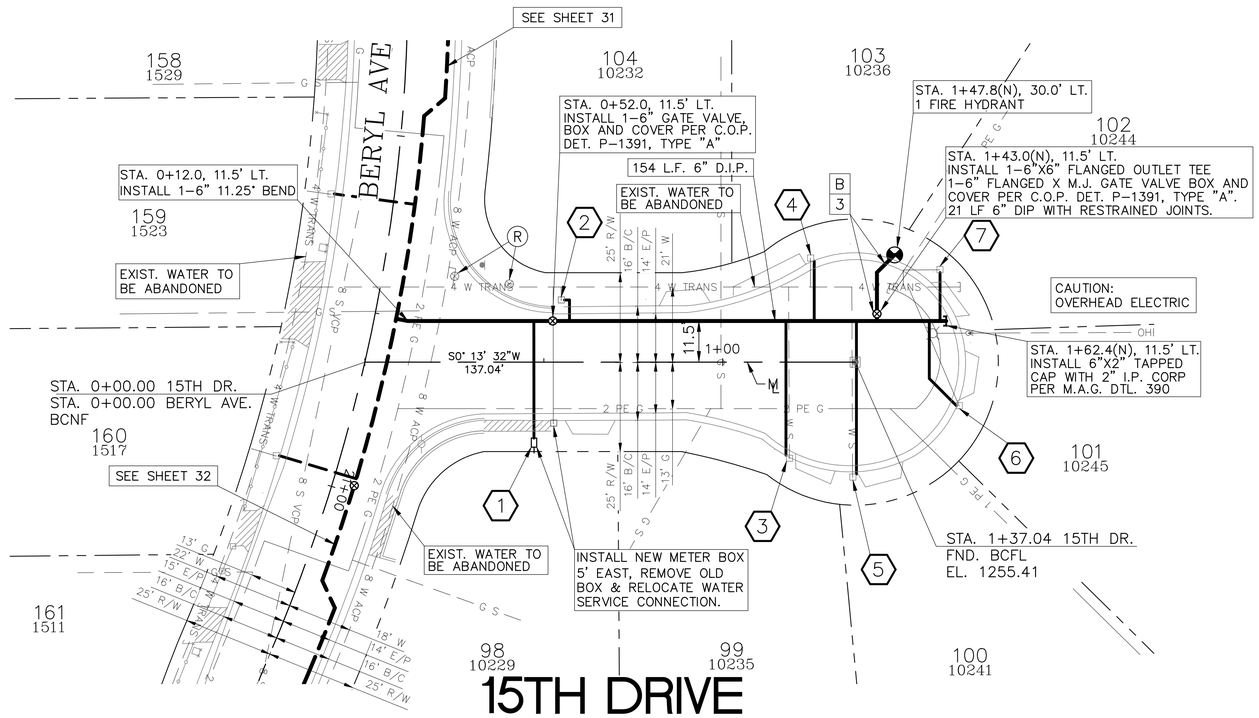
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th_ave\d_production\Cadd\09_Water\WS85509031_15TH_LN_000-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	81	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	0+47	1"	36
2	0+57	1"	10
3	1+18	1"	41
4	1+26	1"	20
5	1+37	1"	46
6	1+61	1"	30
7	1+65	1"	17

NOTE:
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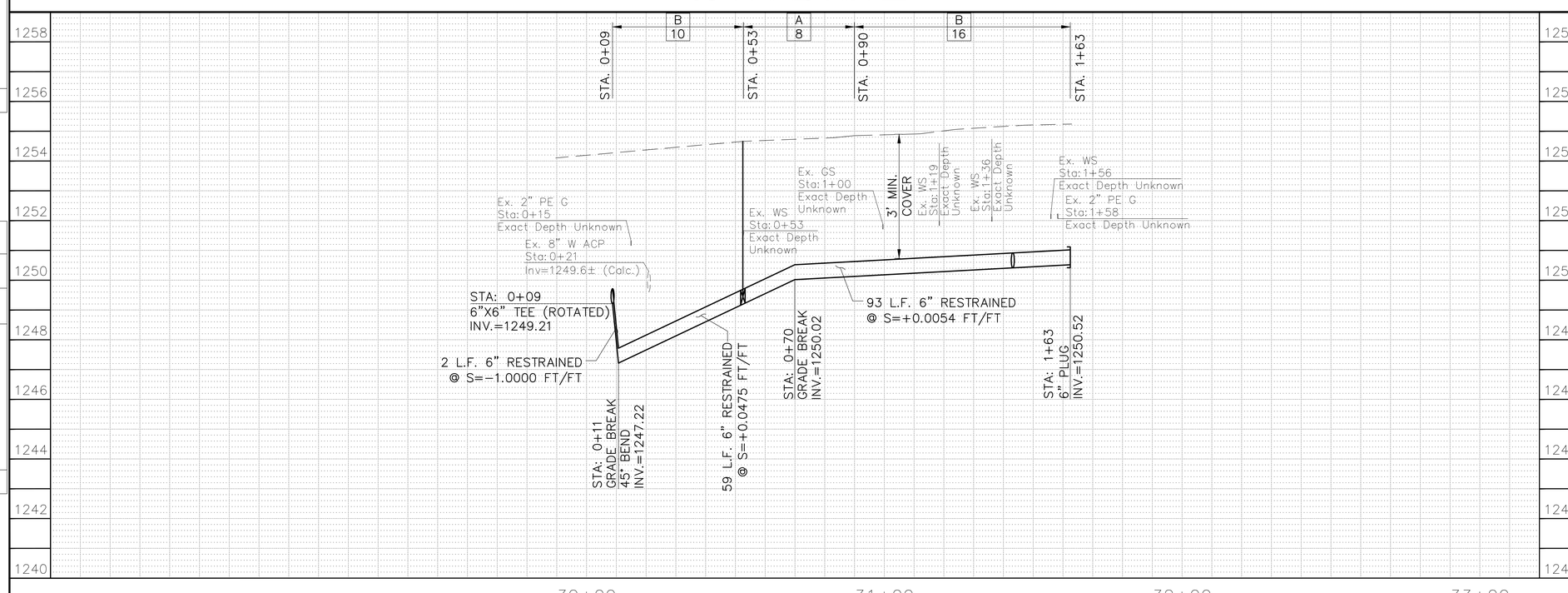

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

15TH DRIVE
STA. 0+00 - END
WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
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SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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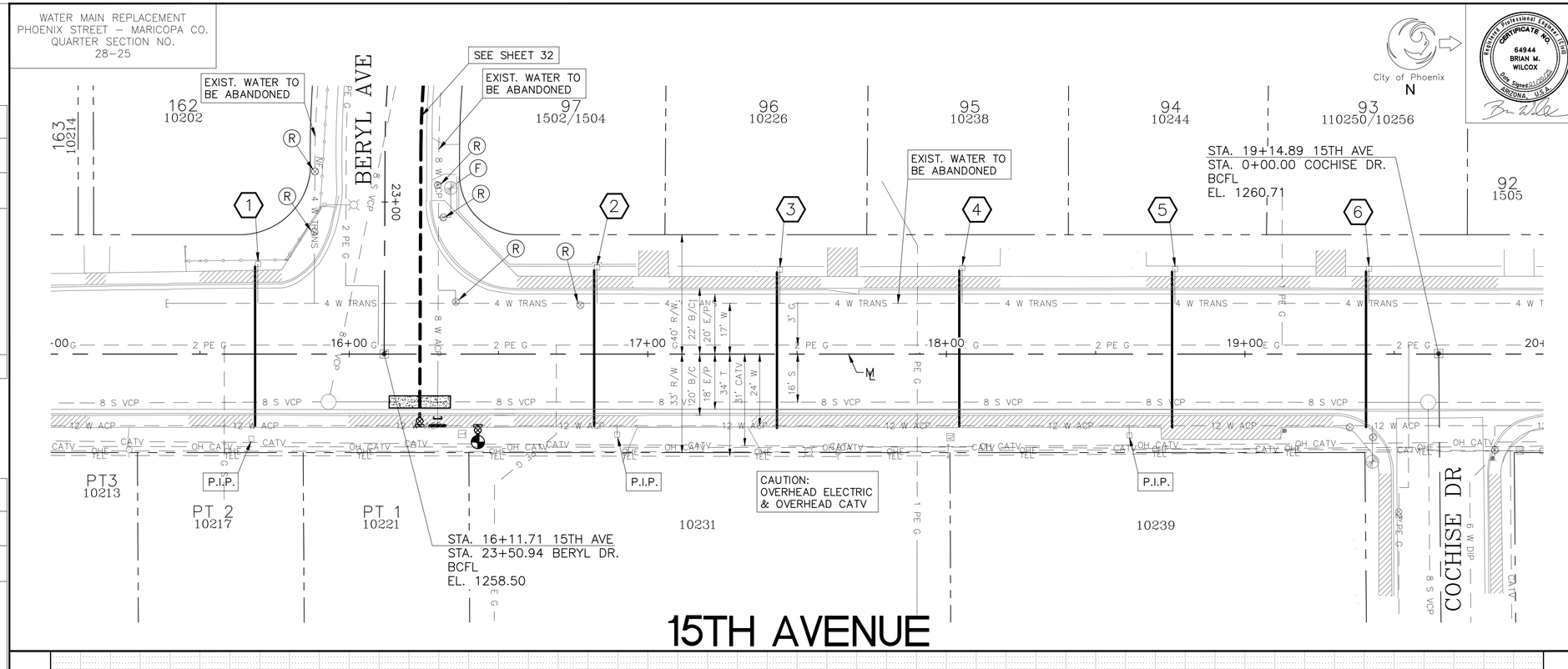
NO.	DESCRIPTION	REV BY	CKD BY	DATE

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d-production\Cadd\09_Water\WS85509031 - 15TH DRIVE_000-END.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25



NO PROFILE THIS SHEET

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	82	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

Registered Professional Engineer (Civil)
CERTIFICATE NO. 64944
BRIAN M. WILCOX
Date Signed 01/21/25
ARIZONA, U.S.A.

METER SERVICE CONNECTIONS
STD DET P–1342

NO.	STATION	SIZE	LF
1	15+68	1"	56
2	16+82	1"	55
3	17+43	1"	55
4	18+04	1"	55
5	18+76	1"	55
6	19+41	1"	55

NOTE:
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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

15TH AVENUE
STA. 15+00 - STA. 20+00

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
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SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL

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

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\09_Water\WS85509031-15TH AVE.dwg DATE: Jan 20, 2025

WATER MAIN REPLACEMENT
PHOENIX STREET – MARICOPA CO.
QUARTER SECTION NO.
28–25

Table 4. Water / Sewer Horizontal Separation Requirements.

Water / Sewer Horizontal Separation Requirement Table	TYPE OF PARALLEL UTILITY							
TYPE OF WATER / SEWER UTILITY	Water Service Connection	Distribution Water Main	Transmission Water Main[1]	Sewer Main / Reclaimed Main	Sewer Service Connection	Dry Utilities[2]	Private Fireline Service	Storm Drains / Culverts & Irrigation[2]
Distribution Water Main	3-feet minimum	3-feet minimum	3-feet minimum	6-feet minimum	6-feet minimum	6-feet minimum	3-feet minimum	6-feet minimum
Transmission Water Main[1]	3-feet minimum	3-feet minimum	3-feet minimum	6-feet minimum	6-feet minimum	6-feet minimum	3-feet minimum	6-feet minimum
Water Service Connection	3-feet minimum	3-feet minimum	3-feet minimum	6-feet minimum	6-feet minimum	3-feet minimum	3-feet minimum	3-feet minimum
Private Fireline Service	3-feet minimum	3-feet minimum	3-feet minimum	6-feet minimum	6-feet minimum	6-feet minimum	3-feet minimum	6-feet minimum
Sewer Main / Reclaimed Main	6-feet minimum	6-feet minimum	6-feet minimum	3-feet minimum	3-feet minimum	6-feet minimum	6-feet minimum	3-feet minimum
Sewer Service Connection	6-feet minimum	6-feet minimum	6-feet minimum	3-feet minimum	3-feet minimum	3-feet minimum	6-feet minimum	3-feet minimum

[1] When running parallel to a Prestressed Concrete Cylinder Pipe (PCCP), the General Requirements for Working Around Prestressed Concrete Cylinder Pipe must be followed. See Section IV(D)(14).
[2] Minimum separation required by WSD. Utility owner may require a greater separation. Refer to the link in Appendix A, page A-2, for SRP Irrigation Requirements.
NOTE: This table applies to all above ground or underground utilities/structures.

City of Phoenix Water Services Department – 2021
Design Standards Manual for Water and Wastewater Systems 10

Table 5. Water / Sewer Vertical Separation Requirements.

Water / Sewer Vertical Separation Requirement Table	TYPE OF UTILITY CROSSING							
TYPE OF WATER / SEWER UTILITY	Water Service Connection	Distribution Water Main	Transmission Water Main[1]	Sewer / Reclaimed Main	Sewer Service Connection	Dry Utilities[4]	Private Fireline Service	Storm Drains / Culverts & Irrigation[4]
Distribution Water Main Above Utility[3]	6-inch minimum	1-foot minimum	2-foot minimum	1-foot minimum[2]	6-inch minimum[3]	1-foot minimum	1-foot minimum	1-foot minimum[2]
Distribution Water Main Below Utility	6-inch minimum	1-foot minimum	2-foot minimum	2-foot minimum[2]	2-foot minimum[3]	1-foot minimum	1-foot minimum	2-foot minimum[2]
Transmission Water Main Above Utility[1]	2-foot minimum	2-foot minimum	2-foot minimum	2-foot minimum	2-foot minimum	2-foot minimum	2-foot minimum	2-foot minimum
Transmission Water Main Below Utility[1]	2-foot minimum	2-foot minimum	2-foot minimum	2-foot minimum[2]	2-foot minimum[3]	2-foot minimum	2-foot minimum	2-foot minimum[2]
Private Fireline Service Above Utility	6-inch minimum	1-foot minimum	2-foot minimum	1-foot minimum[2]	6-inch minimum[3]	1-foot minimum	1-foot minimum	1-foot minimum[2]
Private Fireline Service Below Utility	6-inch minimum	1-foot minimum	2-foot minimum	2-foot minimum[2]	2-foot minimum[3]	1-foot minimum	1-foot minimum	2-foot minimum[2]
Water Service Connection Above or Below Utility	6-inch minimum	6-inch minimum	2-foot minimum	6-inch minimum	6-inch minimum	6-inch minimum	6-inch minimum	1-foot minimum
Sewer Main / Reclaimed Main Above Utility	6-inch minimum	2-foot minimum[2]	2-foot minimum[3]	1-foot minimum	6-inch minimum	1-foot minimum	2-foot minimum[2]	1-foot minimum[2]
Sewer Main / Reclaimed Main Below Utility	6-inch minimum	1-foot minimum[2]	2-foot minimum	1-foot minimum	6-inch minimum	1-foot minimum	1-foot minimum[2]	1-foot minimum[2]
Sewer Service Connection Above	6-inch minimum	2-foot minimum[2]	2-foot minimum[3]	6-inch minimum	6-inch minimum	6-inch minimum	2-foot minimum[2]	1-foot minimum
Sewer Service Connection Below Utility	6-inch minimum	6-inch minimum	2-foot minimum[3]	6-inch minimum	6-inch minimum	6-inch minimum	6-inch minimum[2]	1-foot minimum

[1] When crossing Prestressed Concrete Cylinder Pipe (PCCP), the General Requirements for Working Around Prestressed Concrete Cylinder Pipe must be followed. See Section IV(D)(14).
[2] Extra protection is required for water mains and private fire line services that are between 1 and 2 feet above sewer main, storm drain or irrigation line, and less than 1 foot above a sewer service. Extra protection also required when water mains and private fire lines services are installed below sewer main, storm drain or irrigation line. Refer to note below.
[3] Where a trenching operation crosses under existing 12 inch or smaller ACP waterlines, Section 601.2.8 of the City Supplements to MAG must be followed.
[4] Minimum separation required by WSD. Utility owner may require a greater separation. Refer to the link in Appendix A, page A-2, for SRP Irrigation Requirements.
NOTE: Clearances are measured from outside of pipe to outside of pipe. Minimum separation and extra protection shall be in accordance with the requirements set forth in Arizona Administrative Code AAC R18-5-502, MAG Specification 610, and MAG Standard Detail No. 404-1; or as approved by WSD.

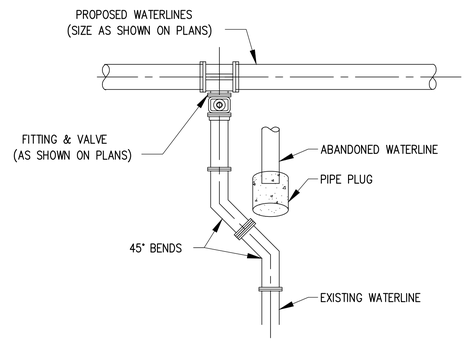
1. Separation Requirements from Water Supply System

While no general statement can be made to cover all conditions, it is recognized that sewers shall meet the requirements of the appropriate reviewing agency with respect to minimum distances from public water supply wells or other water supply sources and structures.

All existing waterworks units, such as basins, wells or other treatment units, within 200 feet of the proposed sewer shall be shown on the plans.

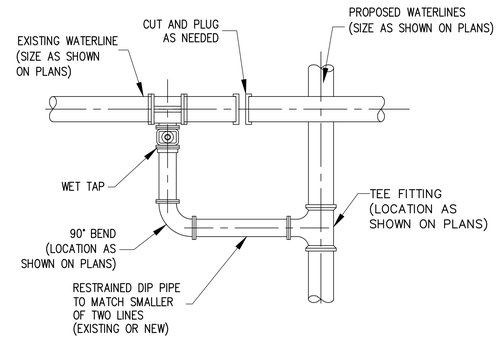
City of Phoenix Water Services Department – 2021
Design Standards Manual for Water and Wastewater Systems 11

PROVIDE PROTECTION PER M.A.G. STD. DET. 404 (CONTINGENCY)



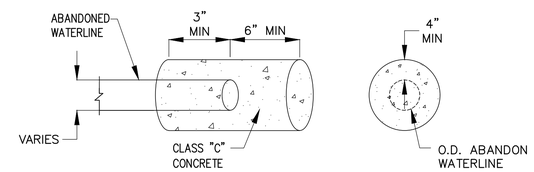
SWING CONNECTION DETAIL

N.T.S.



PIPE CONNECTION DETAIL

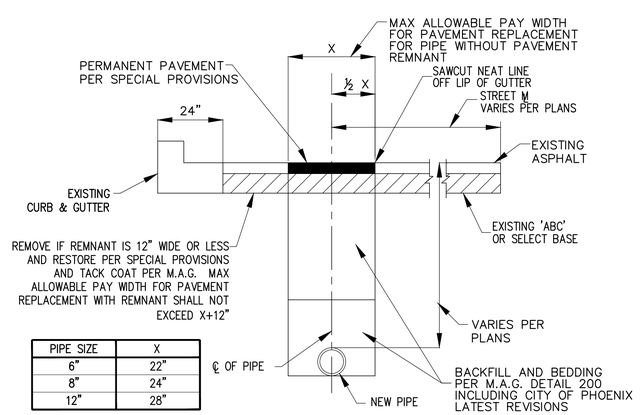
N.T.S.



PIPE PLUG DETAIL FOR ABANDONED WATERLINES

(FOR USE WITH STANDARD DET. P–1343 & P–1344)

N.T.S.



PIPE SIZE	X
6"	22"
8"	24"
12"	28"

NEW PIPE INSTALLATION DETAIL

N.T.S.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
64944
BRIAN M.
WILCOX
Date Signed 01/20/25
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85509031	83	83

ENTELLUS INC.
CONSULTING ENGINEER

DES: CAM | DR: CAM | CK: BW | DATE: 1/2025

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REGISTERED ENGINEER _____ DATE _____

REGISTRATION NUMBER _____

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Entellus™
3033 N. 44th Street, Suite 250, Phoenix, AZ 85018
Tel: 602.244.2566 / Fax: 602.244.8947
www.entellus.com

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WATERLINE PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

WATERLINE DETAILS

WS85509031

DES: CAM	DR: CAM	CK: BW	SHEET NO:	TOTAL SHEETS
DATE: 1/2025	DATE: 1/2025	DATE: 1/2025		
SCALE: N/A HORIZONTAL N/A VERTICAL			83	83

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

FILE: P:\100\115177a – wmr – mountain view & 15th ave\d_production\Cadd\04_General\WS85509031–1_DETAIL – DETAILS.dwg DATE: Jan 20, 2025