

File Path: P:\DATA\2019\APS2019\181.1\ENG\161857_SH1_REC.dwg Plot Date: 12-13-2018
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• L E G E N D •

MATERIALS

CONCRETE	
RIP-RAP	

LINES

SUBDIVISION BOUNDARY	
PROPERTY LINE (PLAN)	
PROPERTY LINE (SECTION)	
CENTERLINE	
EASEMENT LINE	
MATCH LINE	
SECTION CUT LINE	

EARTHWORK

CONTOUR LINE	EXISTING	NEW
SPOT ELEVATION		
PROJECT / PHASE BOUNDARY		
FLOWLINE		
DIRECTION OF FLOW		

MISCELLANEOUS UTILITIES

GAS LINE	
UNDERGROUND TELEPHONE	
UNDERGROUND ELECTRICAL	
STORM DRAIN	
STORM DRAIN MANHOLE	
STORM DRAIN INLET	

SANITARY SEWER

SANITARY SEWER LINE	
SANITARY SEWER MANHOLE	
SAS SERVICE CONNECTIONS	
SAS CAP OR PLUG	
ENCASEMENT	

WATER

WATER LINE	
WATER SERVICE CONNECTIONS	
GATE VALVE	
FIRE HYDRANT	
BUTTERFLY VALVE	
REDUCER	
WATER PRESSURE ZONE BOUNDARY	

WATER FITTINGS

CAPS AND PLUGS	
ELBOW	
CROSS	
TEE	

MISCELLANEOUS

CHAINLINK FENCE	
FIELD FENCE	
COMMON YARD WALL	
RETAINING WALL	
POWER OR TELEPHONE POLE	

RECORD DRAWING

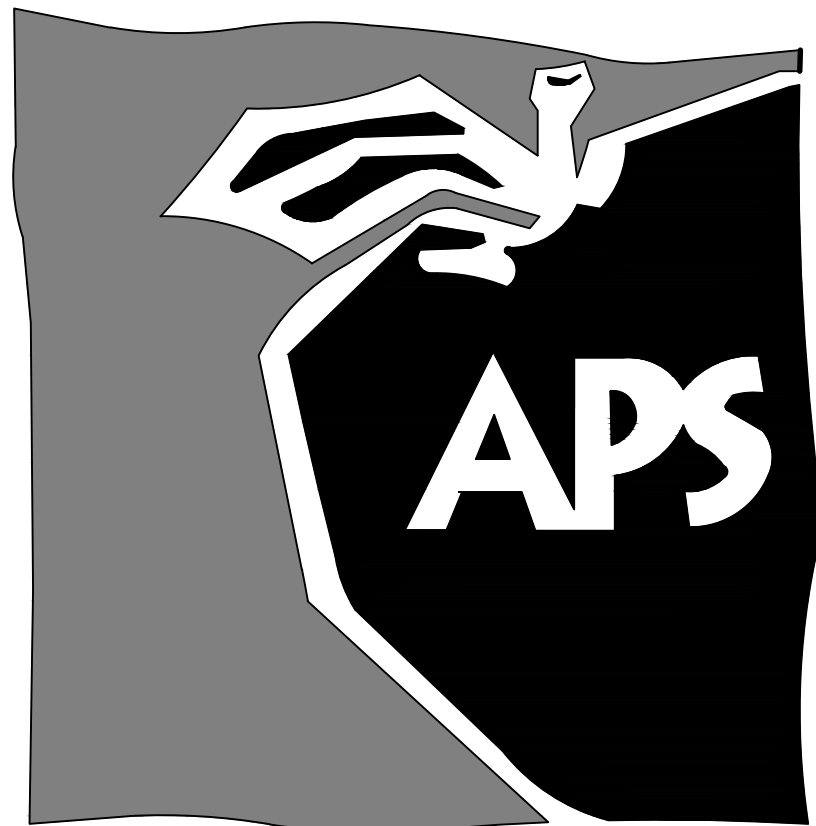
CONSTRUCTION PLANS

for

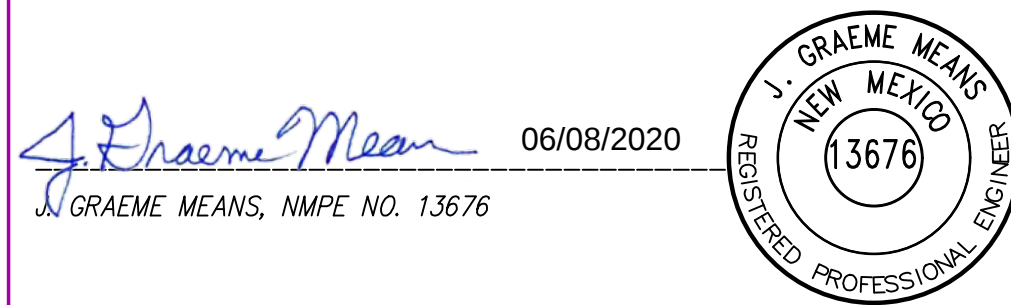
APS LOWELL WEST COMPLEX PUBLIC WATER LINE IMPROVEMENTS

ALBUQUERQUE, NEW MEXICO

DECEMBER, 2018



I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THE INFRASTRUCTURE CONSTRUCTED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS DATED 12-13-2018. THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT IS FROM THE AS-BUILT SURVEY CONDUCTED 10-10-2019, UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA JR., NMPS 11184, OF THE FIRM HIGH MESA CONSULTING GROUP, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF DESIGN INTENT OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY OF ALBUQUERQUE AND ABCWUA.



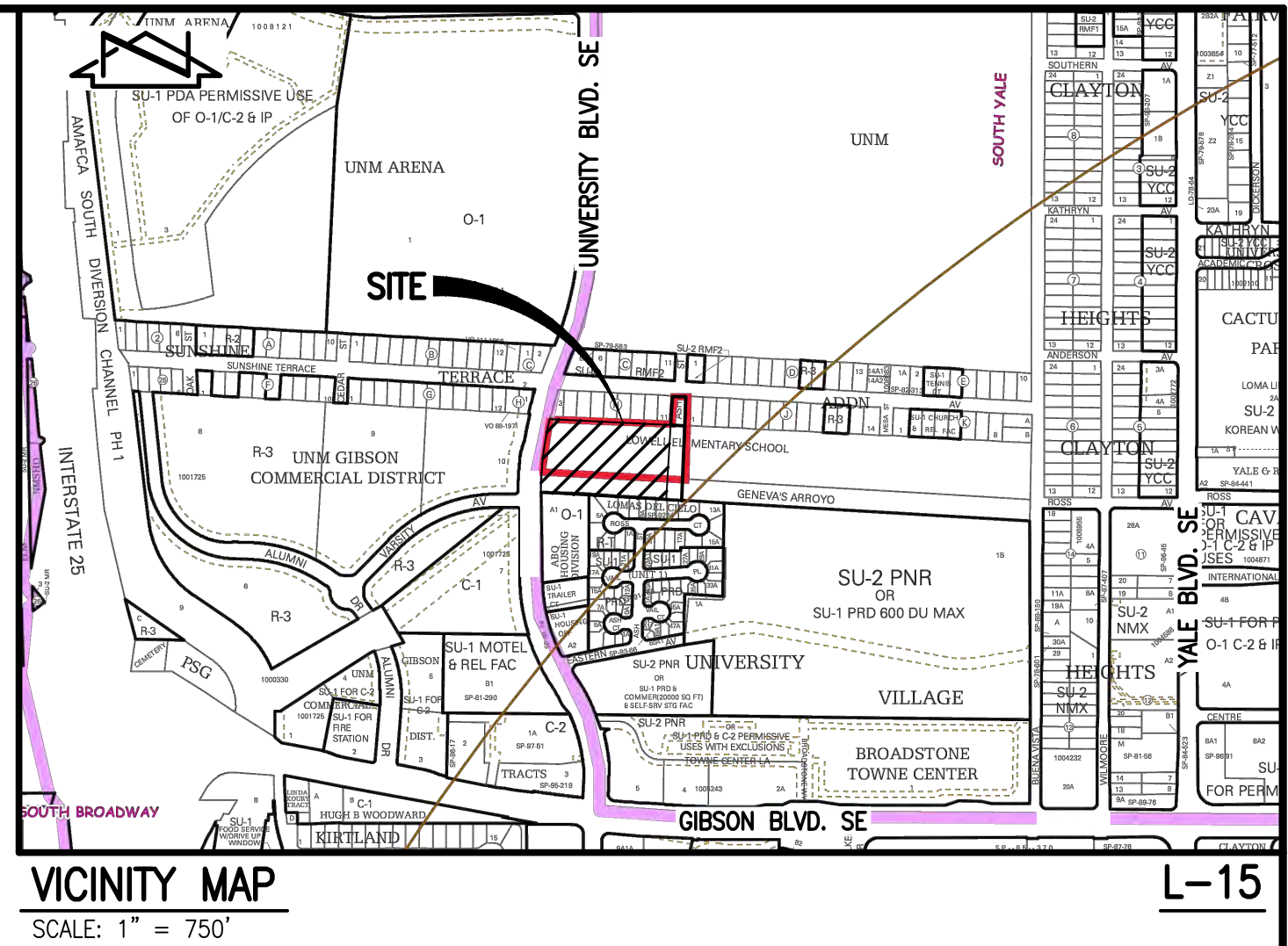
INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	LEGEND, VICINITY MAP, GENERAL NOTES, AND INDEX OF DRAWINGS
2	PROPOSED PUBLIC WATER LINE EASEMENT SURVEY
3	OVERALL SITE PLAN
4	LINE 'A' PLAN & PROFILE STA 9+60 TO STA 13+50
5	LINE 'A' PLAN & PROFILE STA 13+50 TO STA 17+00
6	LINE 'A' PLAN & PROFILE STA 17+00 TO STA 19+84.1±
7	WATER VALVE SHUT-OFF PLAN, ENLARGED WATER LINE CONNECTION PLANS
8	TRACER WIRE SECTIONS AND DETAILS
9	TRACER WIRE SPECIFICATIONS

2016.185.7/2019.181.1

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Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com

APPROVED RECORD DRAWINGS	
City Inspector	Matthew Garduno
Contractor	Altior Construction INC
Construction Engineer	Muhanned AdeeB
Date	7/23/2020



VICINITY MAP
SCALE: 1" = 750'

L-15

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #9, AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON ON-SITE SURFACE EVIDENCE, REVIEW OF AVAILABLE APS RECORD DRAWINGS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (APS-SUE 2017.0501). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ON-CALL SERVICE (TICKET NO. 17FE270483). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING TO THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.
- EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM, 811, (260-1990) FOR LOCATION OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS. CONTRACTOR SHALL THEN EXCAVATE THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL THEN COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED. ANY DAMAGE CAUSED BY FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY EXISTING UTILITIES IS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL ASSUME FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, SIGNAGE, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED ON THE PLANS, AND SHALL REPAIR OR REPLACE, PER THE STANDARD SPECIFICATIONS, ANY SUCH DAMAGE.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY AND OTHER JURISDICTIONAL AUTHORITIES WHERE APPLICABLE.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS SHOWN. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ANY SUCH COSTS INCURRED.
- DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE ARRANGED BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR COSTS ASSOCIATED WITH OBTAINING A DISPOSAL SITE AND HAUL THERE TO.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. EXISTING VALVES AND MANHOLES SHALL NOT BE BURIED OR PAVED OVER BUT RIMS SHALL BE ADJUSTED TO MATCH NEW GRADE PER COA STANDARD DRAWINGS 2460 AND 2461.
- TRACER WIRE SHALL BE INCLUDED FOR ALL PUBLIC WATER AND SEWER MAINS AND FOR WATER SERVICES IN ACCORDANCE WITH WATER AUTHORITY DETAILS.
- CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRO TESTING PLANS TO THE WUA INSPECTORS FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS.
- AT UTILITY CROSSINGS, WHERE LESS THAN 18" OF VERTICAL SEPARATION FROM STORM DRAIN PIPING OR STRUCTURES IS PROPOSED, LEAN FILL CONSTRUCTION (PER SECTION 207 OF THE STANDARD SPECIFICATIONS) SHALL BE USED TO PROTECT THE WATER OR SEWER LINE. LEAN FILL SHALL EXTEND A PERPENDICULAR DISTANCE OF 5 FEET ON EACH SIDE OF THE STORM PIPE OR STRUCTURE.
- ANY STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH THERMO-PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- REMOVAL OF EXISTING CURB & GUTTER AND SIDEWALKS SHALL BE TO THE NEAREST JOINT.
- CONTRACTOR TO TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 50 OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE MODIFIED. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR EARTHWORK REQUIREMENTS, AS APPLICABLE.
- AT ALL PAVEMENT REMOVAL AND REPLACEMENTS, SAW-CUT EDGES SHALL BE STRAIGHT AND CLEAN, AND LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN WHEEL PATHS. PATCHES SHALL BE REGULAR AND SQUARE OR RECTANGULAR, WITH FOUR STRAIGHT SIDES. FINISHED PAVEMENT SURFACE SHALL BE FLUSH WITH EXISTING PAVEMENT SURFACE, WITH NO SPillover OF ASPHALT OR TACK COAT. CARE MUST BE TAKEN TO AVOID DAMAGING THE INTEGRITY OR APPEARANCE OF SURROUNDING PAVEMENTS; IF DAMAGED, THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGES.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.
- CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS TO PREVENT ANY EXCAVATED MATERIAL BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- WORK AFFECTING ARTERIAL ROADWAYS MAY REQUIRE TWENTY-FOUR-HOUR CONSTRUCTION.

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RECORD DRAWING

EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY

EASEMENT DESCRIPTION

A certain tract of land located within the Corporate Limits of the City of Albuquerque, New Mexico, comprising a portion of the Unplatted Lands of the Board of Education as described by Quitclaim Deed filed in the Office of the County Clerk of Bernalillo County, New Mexico on June 21, 1951, Book D180, Pages 145-146, Document No. 32750, (UPC #101505637216140701) being that portion between University Boulevard S.E. and Buena Vista Drive S.E., and being more particularly described as follows:

Beginning at the southwest corner of the easement herein described, being a point on the eastern right-of-way line of University Boulevard S.E., whence the southwest property corner of said Unplatted Lands of the Board of Education bears S 04°18'15" W a distance of 9.00 feet; thence along an arc of a curve to the right with Delta = 00°49'52", R = 1379.40 feet and L = 20.01 feet, (Chord Bearing = N 04°54'23" E, Chord Length = 20.01 feet) along said eastern right-of-way line; thence S 86°40'19" E a distance of 89.77 feet; thence N 03°32'23" E a distance of 8.00 feet; thence S 86°40'19" E a distance of 10.00 feet; thence S 03°32'23" W a distance of 8.00 feet; thence S 86°40'19" E a distance of 321.59 feet; thence N 03°32'23" E a distance of 8.00 feet; thence S 86°40'19" E a distance of 10.00 feet; thence S 03°32'23" W a distance of 8.00 feet; thence S 86°40'19" E a distance of 11.35 feet; thence N 03°08'45" E a distance of 193.73 feet; thence S 86°51'15" E a distance of 127.77 feet; thence N 03°37'30" E a distance of 26.05 feet to a point on the south right-of-way line of Ash Street N.E.; thence S 86°41'06" E a distance of 20.00 feet along said south right-of-way line, whence the southwest property corner of Lot 1, Block J, Sunshine Terrace as the same is shown and designated on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on March 17, 1950, Plat Book C1, Page 91 bears S 86°41'06" E a distance of 26.19 feet; thence S 03°37'30" W a distance of 45.99 feet; thence N 86°51'15" W a distance of 127.60 feet; thence S 03°08'45" W a distance of 193.80 feet; thence N 86°40'19" W a distance of 463.33 feet to the point of beginning and containing 0.3758 acres more or less.

Notes:

1. An easement survey was performed in October, 2018 verifying a boundary survey performed by this firm in March, 2017. A title search was not conducted to support this surveying effort. Property corners were found as indicated.
2. Site located within Projected Section 28, Township 10 North, Range 3 East, N.M.P.M. (Town of Albuquerque Grant).
3. All distances are ground distances.
4. Bearings shown hereon are New Mexico State Plane Grid Bearings, Central Zone (NAD 83). These bearings are positioned from A.G.R.S. Control Station "7-L15".
5. Purpose of this survey is to describe the new public water line easement being granted to Albuquerque Bernalillo County Water Utility Authority.
6. The northern side of the easement described hereon, shall lengthen or shorten to intersect with the southern right-of-way line of Ash Street S.E., and the western side of the easement described hereon, shall lengthen or shorten to intersect with the eastern right-of-way line of University Boulevard S.E., as shown.

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JOB NO. 2016.185.8 EASE1

SHEET 1 OF 4

EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY

SURVEYORS CERTIFICATION

I, Charles G. Cala, Jr., New Mexico Professional Surveyor No. 11184, do hereby certify, that this easement survey and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that this survey meets the Minimum Standards for Surveying in New Mexico, and that it is true and correct to the best of my knowledge and belief.

Charles G. Cala, Jr.
Charles G. Cala, Jr., NMPS #1184
1-29-2019 Date

KEYED NOTES

EASEMENTS

1. 12" PNM AND MST&T EASEMENT GRANTED BY DOCUMENT EXECUTED 11-03-1969, (UNRECORDED)
2. 10" PNM AND MST&T EASEMENT GRANTED BY DOCUMENT EXECUTED 09-04-1985, (UNRECORDED)
3. 20" CITY OF ALBUQUERQUE WATER AND SEWER LINE EASEMENT GRANTED BY DOCUMENT FILED 12-18-1981, BOOK MISC. 898, PAGES 220-222, DOC. #1981065542
4. 10" PNM UNDERGROUND EASEMENT GRANTED BY DOCUMENT FILED 03-03-2004, BOOK A73, PAGE 7808, DOC. #2004027881 (ERROR IN EASEMENT DESCRIPTION)
5. 10" PNM ELECTRIC UNDERGROUND EASEMENT GRANTED BY DOCUMENT FILED 10-04-2005, BOOK A104, PAGE 6251, DOC. #2005146653
6. 10" PNM GAS EASEMENT GRANTED BY DOCUMENT FILED 12-09-2005, BOOK A108, PAGE 564, DOC. #2005181051
7. PNM ELECTRIC EASEMENT GRANTED BY DOCUMENT FILED 12-10-2009, DOC. #2009154284
8. ABCWUA WATER LINE EASEMENT GRANTED BY DOCUMENT FILED 10-01-2010, DOC. #2010099236
9. 5" UTILITY EASEMENT GRANTED BY PLAT C1-91
10. 7" UTILITY EASEMENT GRANTED BY PLAT B4-27 (OFFSITE)
11. 7" UTILITY EASEMENT GRANTED BY PLAT B4-27 (OFFSITE)

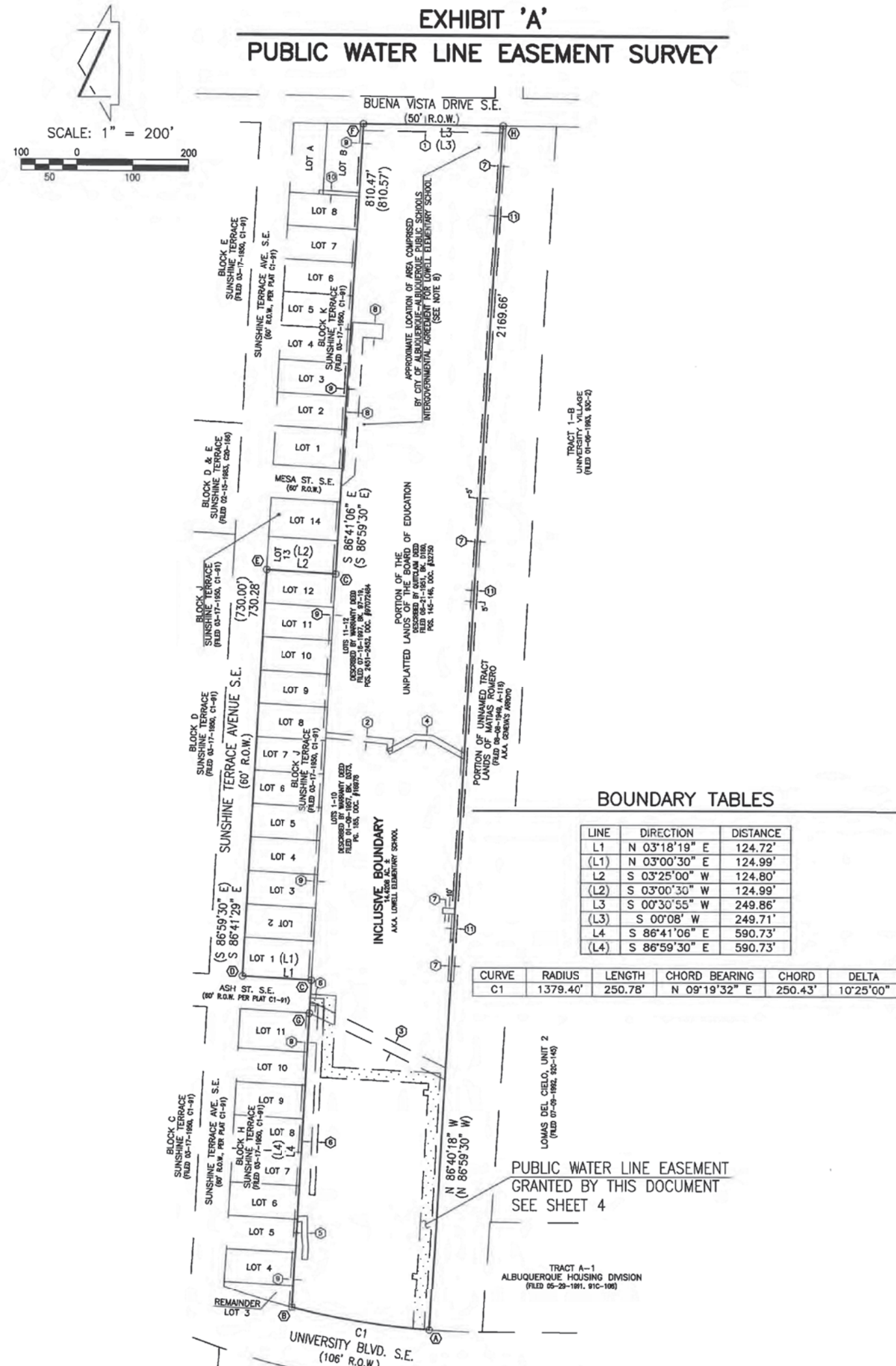
MONUMENTS

- A. FOUND, #5 REBAR W/CAP STAMPED "LS 3243", TAGGED W/WASHER STAMPED "NMPS 11184"
- B. FOUND CHISELED "+" ON CONCRETE ELECTRIC BOX
- C. FOUND #5 REBAR W/CAP STAMPED "NEW MEXICO PS 11184"
- D. FOUND MAG NAIL W/WASHER STAMPED "NMPS 11184" IN CONCRETE AT FENCE CORNER BASE
- E. FOUND, #5 REBAR W/CAP STAMPED "LS 4071", TAGGED W/WASHER STAMPED "NMPS 11184"
- F. FOUND #5 REBAR, NO I.D., TAGGED W/WASHER STAMPED "NMPS 11184"
- G. FOUND IRON PIPE, ON LINE (SOUTHWEST CORNER OF LOT 11, BLOCK H)
- H. FOUND #5 REBAR, NO I.D. (BENT), REPLACED WITH A #5 REBAR W/CAP STAMPED "NEW MEXICO PS 11184"

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JOB NO. 2016.185.8 EASE1

SHEET 2 OF 4

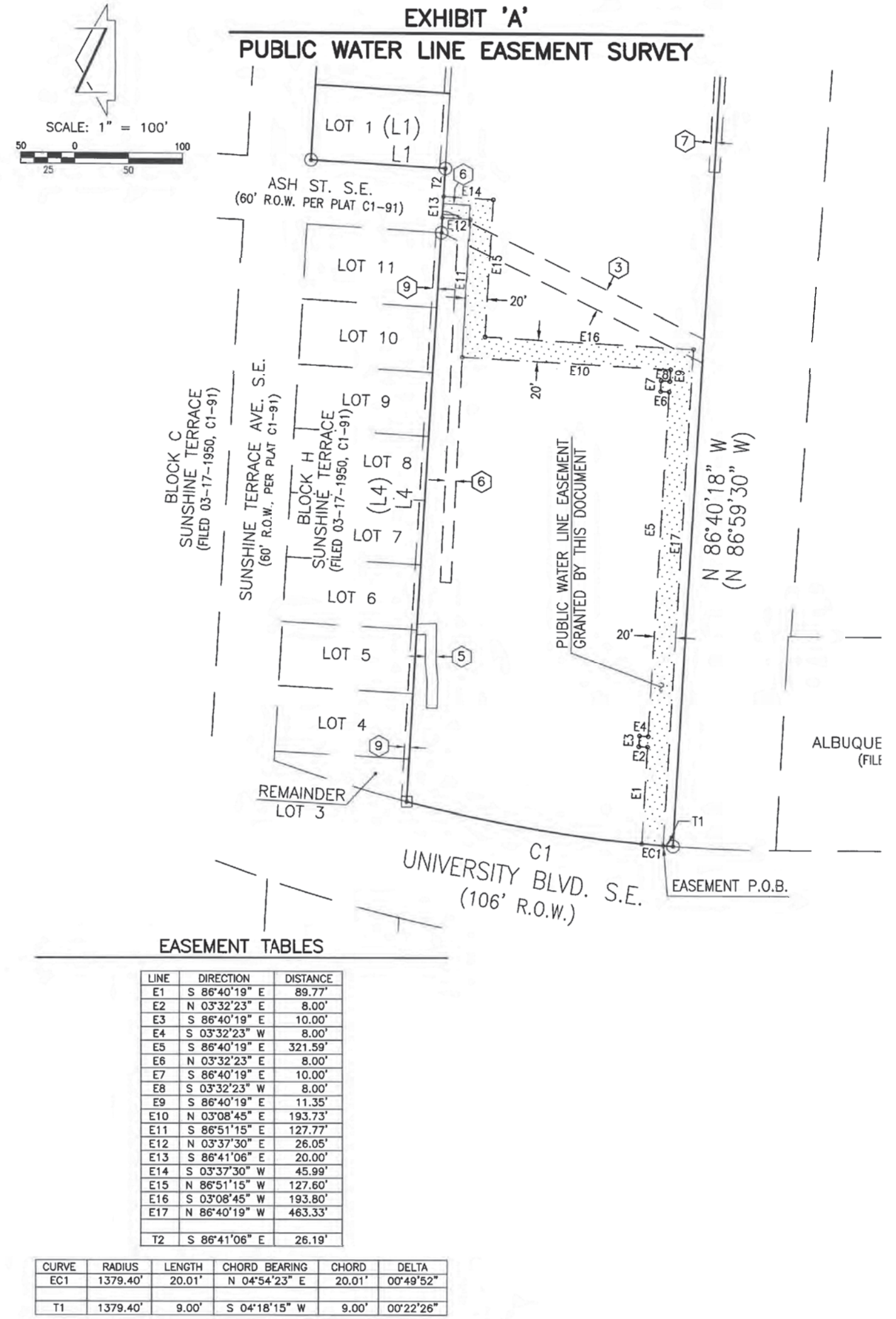
EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY



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SHEET 3 OF 4

EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY



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JOB NO. 2016.185.8 EASE4

SHEET 4 OF 4

AS-BUILT DRAWINGS		JDS		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	

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2016.185.7/2019.181.1

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: APS LOWELL WEST COMPLEX PUBLIC WATER LINE IMPROVEMENTS PROPOSED PUBLIC WATER LINE EASEMENT SURVEY			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
Last Design Update			
City Project No. 390493		Zone Map No. L-15	Sheet 2 Of 9

FOR INFORMATION ONLY

LEGEND

ASPH	ASPHALT	GTS	GATE STOP POLE	WCR	CONCRETE WHEELCHAIR RAMP	---	EXISTING WATER SERVICE
C&G	CURB AND GUTTER	GW	GUY WIRE ANCHOR	WF	OUTDOOR STAND PIPE FAUCET	---	PROPOSED WATER SERVICE
C/PM	COMMUNICATION LINE BY PAINT MARK	HCP	HANDICAPPED PARKING SIGN	WMB	WATER METER BOX	---	EXISTING WATER LINE
CCND	COMMUNICATION CONDUIT	INV	PIPE INVERT	WPP	WOOD POWER POLE	---	PROPOSED WATER LINE
CDP	CONCRETE DRIVE PAD	MH	MANHOLE	WPP/SL	WOOD POWER POLE WITH STREET LIGHT	---	EXISTING SANITARY SEWER LINE
CF	LANDSCAPING CRUSHER FINES	MHR	METAL HANDRAIL	WVB	WATER VALVE BOX	---	PROPOSED SANITARY SEWER LINE
CFT	CONCRETE FOOTING	MLP	METAL LIGHT POLE	XC	EXTRUDED CONCRETE CURB	---	EXISTING FIRE LINE
CI	CAST IRON PIPE	MLP/CB	METAL LIGHT POLE ON CONCRETE BASE	XW	PAINTED PEDESTRIAN CROSSWALK	---	PROPOSED FIRE LINE
CLF	CHAIN LINK FENCE	MNT	MOUNTABLE			---	EXISTING POST INDICATOR VALVE
CLF/BW	CHAIN LINK FENCE W/BARBED WIRE	MP	METAL PIPE GUARD			---	PROPOSED POST INDICATOR VALVE
CLN	CONCRETE LANDING	MTS	METAL SIGN (GENERAL)			---	EXISTING PROPERTY LINE
CMR	COMMUNICATION RISER	OHC(3)	OVERHEAD COMMUNICATION (# OF LINES)				
CMU	CONCRETE MASONRY UNIT WALL	OHE(3)	OVERHEAD ELECTRIC (# OF LINES)				
CND	ELECTRIC CONDUIT	OHG(2)	OVERHEAD GUY WIRE (# OF LINES)				
CO	CLEANOUT	PI	PAINTED PARKING LOT ISLAND				
CONC	CONCRETE	PLT	WOOD PLANTER				
CPB	COMMUNICATION PULLBOX	PS	PAINTED PARKING STALL STRIPE				
CR	CONCRETE RAMP	PVC	POLYVINYL CHLORIDE PIPE				
CRW	CONCRETE RETAINING WALL	RACK	ELECTRIC PANEL(2) STEEL RACK				
CS	CONCRETE STAIRS	RCP	REINFORCED CONCRETE PIPE				
CSW	CONCRETE SIDEWALK	SAS	SANITARY SEWER				
DBL	DOUBLE	SD/PM	STORM DRAIN LINE BY PAINT MARK				
DUMP	CONCRETE REFUSE PAD	SDI	STORM DRAIN INLET				
E/PM	ELECTRIC LINE BY PAINT MARK	SGP	STEEL GUARD POST				
EA	EDGE OF ASPHALT	SW	SIDEWALK				
EPB	ELECTRIC PULLBOX	SWC	SIDEWALK CULVERT				
ET	ELECTRIC TRANSFORMER	TA	TOP OF ASPHALT				
FH	FIRE HYDRANT	TC	TOP OF CURB				
FL	FLOWLINE	TCLF	TEMPORARY CHAIN LINK FENCE				
FRD	FROM RECORD DRAWING	TCO	TOP OF CONCRETE				
G/PM	GAS LINE BY PAINT MARK	TDSW	CONCRETE TURNDOWN SIDEWALK				
GA	GATE	TG	TOP OF GRATE				
GAP	GUY ANCHOR POLE	TS	TRAFFIC SIGN				
GM	GAS METER	TW	TOP OF WALL				
GRV	LANDSCAPING GRAVEL	TYP	TYPICAL				
GS	GAS SERVICE	W/PM	WATER LINE BY PAINT MARK				

BENCHMARKS

PROJECT BENCHMARK

AN AGRS 3 1/4" ALUMINUM DISC STAMPED "7-L15 1984" SET FLUSH IN THE TOP OF CURB, ON THE WEST SIDE OF YALE BOULEVARD S.E., APPROXIMATELY 56 FEET NORTH OF THE CENTERLINE OF KATHRYN AVENUE S.E.

ELEVATION = 5164.135 FEET (NAVD 88)

TEMPORARY BENCHMARK #1 (T.B.M.)

A MAG NAIL W/WASHER SET IN CONCRETE SIDEWALK, IN THE SOUTHWESTERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.

ELEVATION = 5085.83 FEET (NAVD 88)

TEMPORARY BENCHMARK #2 (T.B.M.)

A NAIL W/WASHER SET IN THE TOP OF A CONCRETE CURB, IN THE NORTHEASTERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.

ELEVATION = 5089.60 FEET (NAVD 88)

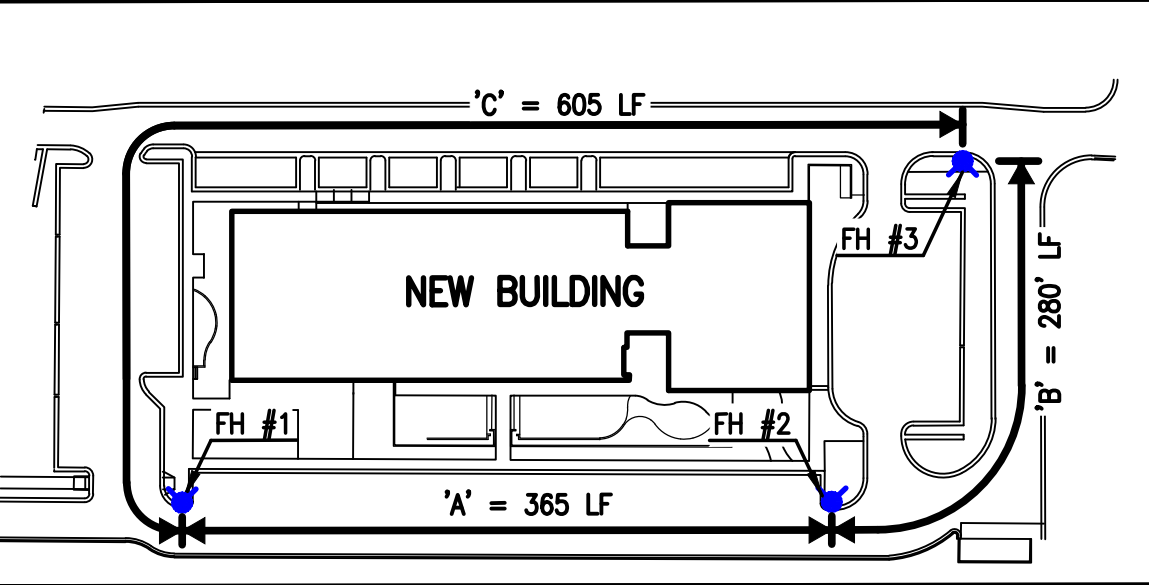
RECORD DRAWING KEYED NOTES

- (X) UTILITY PLAN, OFFICE PARK AT LOWELL ELEMENTARY SCHOOL—WEST, PREPARED BY HIGH MESA CONSULTING GROUP, SHEET 7 OF 17, DATED 07-18-2010
- (Y) GRADING PLAN, OFFICE PARK AT LOWELL ELEMENTARY SCHOOL—WEST, PREPARED BY HIGH MESA CONSULTING GROUP, SHEET 5 OF 17, DATED 07-18-2010
- (Z) WATER LINE DEPICTED ON PARTIAL TOPOGRAPHIC AND UTILITY SURVEY OF LOWELL ELEMENTARY SCHOOL, PREPARED BY HIGH MESA CONSULTING GROUP, 11-10-2008

LEGAL DESCRIPTION

A PORTION OF THE BOARD OF EDUCATION AS DESCRIBED BY QUIT CLAIM DEED. FILED 06-21-1951, BKD180, PGS 145-146, DOC #32750 (LOWELL ELEMENTARY SCHOOL)

FIRE HYDRANT SPACING



SCALE: 1"=100'

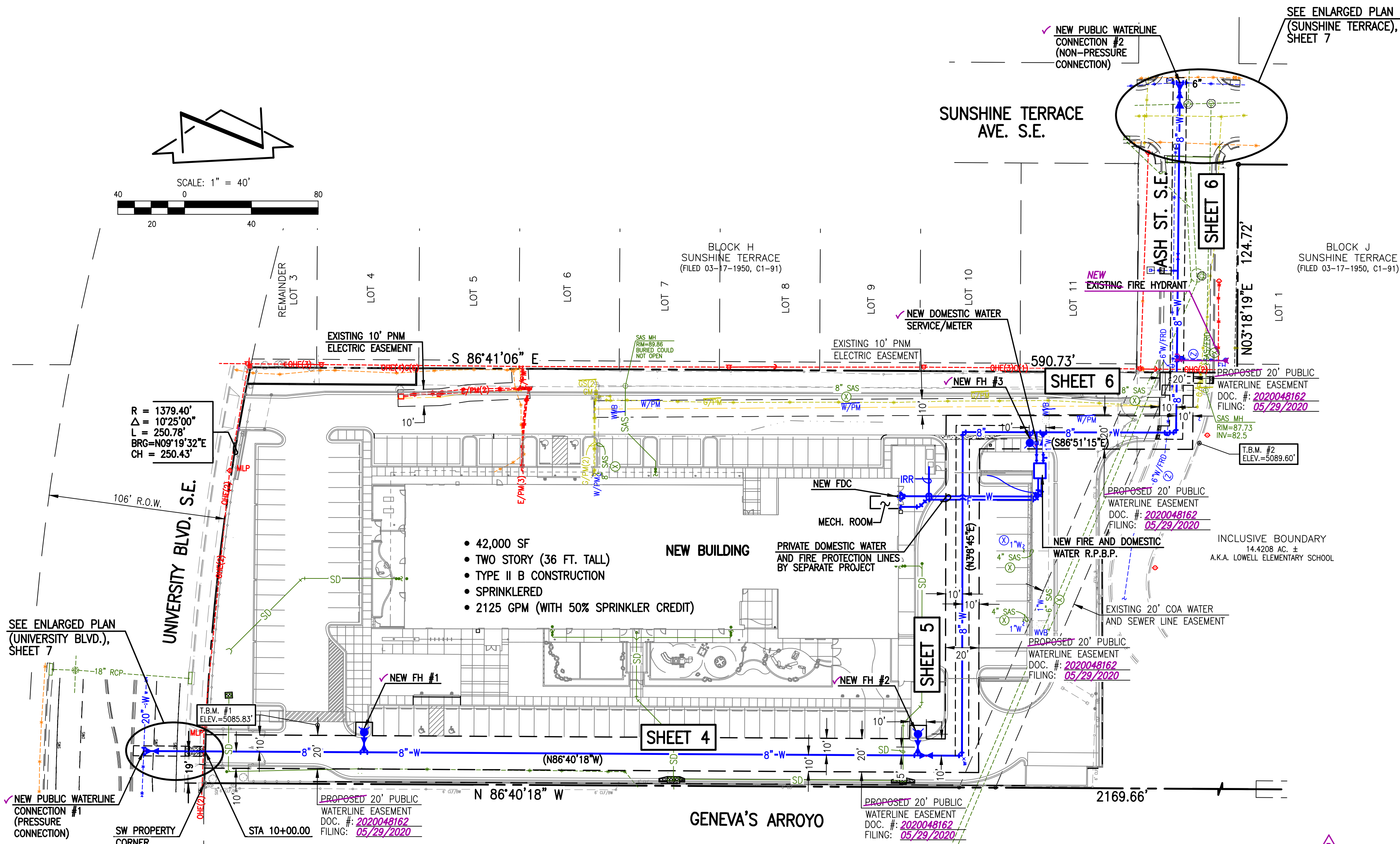
LENGTH A = 365'

LENGTH B = 280'

LENGTH C = 605'

TOTAL = 1250' / 3 = 417' AVG.

(<450' AVG., OK PER C-105.1, IFC)



RECORD DRAWING LEGEND	
CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36' 42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
28.98'±	RECORD INFORMATION FROM AS-BUILT SURVEY

NOTE:

- REFER TO ABCWA AVAILABILITY LETTER #170514 FOR SITE DOMESTIC WATER LINE AND FIRE PROTECTION REQUIREMENTS.
- SEE INDIVIDUAL SHEET FOR JOINT RESTRAINT LENGTH CALLOUTS.

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; BOUNDARY DATA DEPICTED HEREON IS BASED UPON A BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, 09/29/2017 (2016.185.6). TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 09/29/2017 (2016.185.6).

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2016.185.7/2019.181.1

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **APS LOWELL WEST COMPLEX
PUBLIC WATER LINE IMPROVEMENTS
OVERALL SITE PLAN**



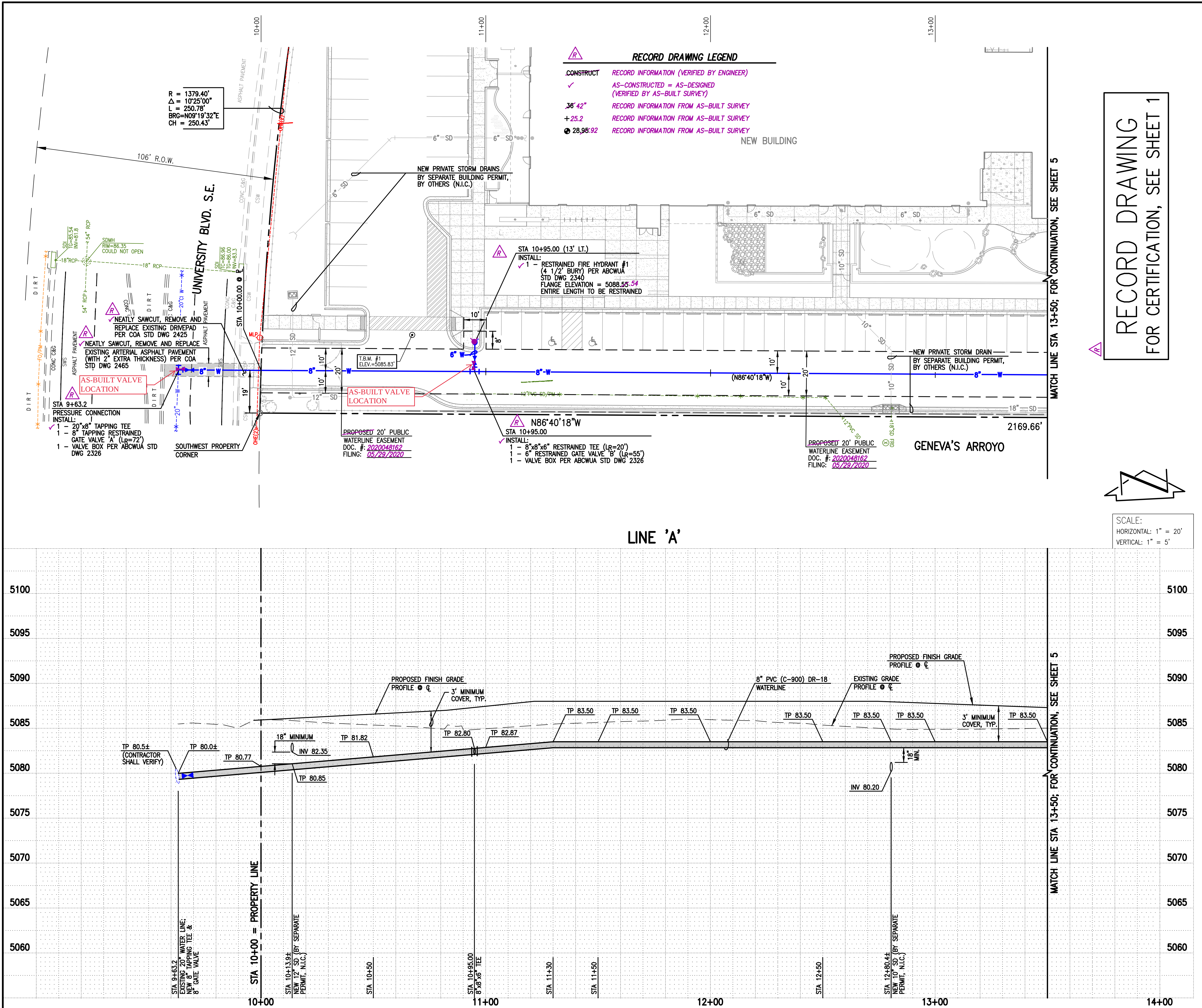
City Project No. **390493**

Zone Map No. **L-15**

Sheet **3** Of **9**

RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE
ALOR	06/13/2019	HMCG	06/13/2019	2016.181.8	HMCG	13616	12-2018	1	12-2018	1	12-2018
INSPECTOR'S	DATE	BY	DATE	2019.180.9	HMCG	13616	12-2018	2	12-2018	2	12-2018
FIELD	DATE	BY	DATE								
VERIFICATION	DATE	BY	DATE								
BY	DATE	BY	DATE								
DATE	DATE	DATE	DATE								
NO.	NO.	NO.	NO.								





SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

RECORD DRAWING LEGEND	
CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36° 42'	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
⊙ 28.95' 92	RECORD INFORMATION FROM AS-BUILT SURVEY

WATER LINE CONSTRUCTION NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986 - UPDATE NO. 8.
2. PROPOSED WATER LINE MATERIALS SHALL BE PVC PIPE, MEETING AWWA C-900: DR18 REQUIREMENTS ("6"-12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS ("6"-48"). 2" WATER SERVICE PIPE MATERIAL SHALL BE COPPER OR MUNICIPAL.
3. ALL MATERIALS USED SHALL CONFORM WITH THE MATERIALS PRESENT ON THE "ABQMAA APPROVED PRODUCTS LIST, LATEST EDITION".
4. WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE), EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
5. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
6. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE LINES AND HYDRANT LINES. SEE BUDGET NOTES FOR RESTRAINT LENGTHS (LR).
7. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE USED FOR THE PROPOSED SIZING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FITTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
10. NEW WATER LINE INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICER BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVES AND SERVICES. TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. SEE SHEET 8.

BENCHMARKS

TEMPORARY BENCHMARK #2 (T.B.M.)

A NAIL W/WASHER SET IN THE TOP OF A CONCRETE CURB, IN THE NORTHEASTERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.
ELEVATION = 5089.60 FEET (NAVD 88)

WATER LINE VALVES AND FIRE HYDRANT GIS DATA

ITEM	LOCATION	NAD' 83 GRID COORDINATES (US SURVEY FEET)		
		NORTHING	EASTING	ELEVATION
VALVE 'C'	STA 14+26.59	1478332.80	1526673.07	5084.63
VALVE 'D'	STA 14+31.59	1478329.52	1526677.80	5084.80
FH #2	STA 14+26.59 (12.8'LT)	1478342.97	1526673.50	5088.17
VALVE 'E'	STA 16+87.08	1478516.92	1526749.82	5086.08
FH #3	STA 16+87.08 (6.38'RT)	1478513.23	1526749.66	5089.56
VALVE 'F'	STA 16+95.08	1478516.62	1526757.78	5085.96
2" DOM. SERVICE	STA 16+91.08	1478511.69	1526752.70	5089.19

NOTE:

- REFER TO ABCWUA AVAILABILITY LETTER #170514 FOR SITE DOMESTIC WATER LINE AND FIRE PROTECTION REQUIREMENTS.
- SEE INDIVIDUAL SHEET FOR JOINT RESTRAINT LENGTH CALLOUTS

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; BOUNDARY DATA DEPICTED
HEREON IS BASED UPON A BOUNDARY SURVEY PREPARED BY HIGH
MESA CONSULTING GROUP, NMPS NO. 11184, 09/29/2017
(2016.185.6). TOPOGRAPHIC INFORMATION DEPICTED HEREON IS
BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY
HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED
09/29/2017 (2016.185.6).

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2016.185.7/2019.181.1 $\triangle_R$

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS LOWELL WEST COMPLEX
PUBLIC WATER LINE IMPROVEMENTS
LINE 'A' PLAN & PROFILE STA 13+50 TO STA 17+00

Design Review Committee

APPROVED

FEB 07 2019

DESIGN
REVIEW COMMITTEE

City Engineer Approval

APPROVED

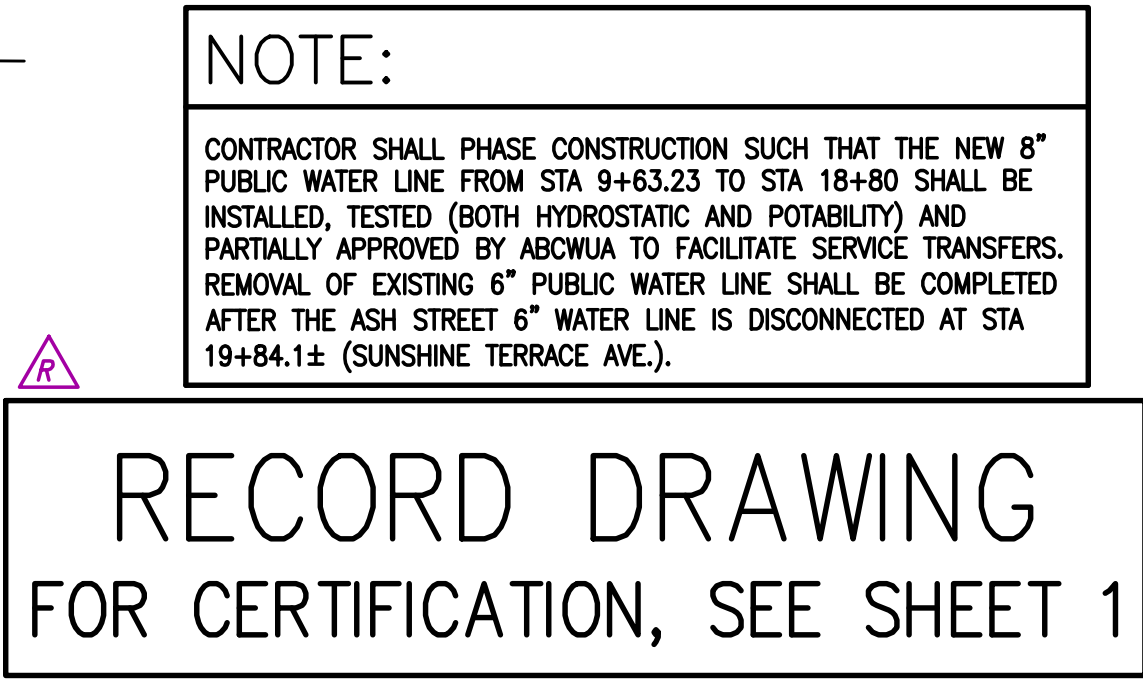
MAR 06 2019

CITY ENGINEER

Last Design Update

City Project No. **390493** Zone Map No. **1-15** Sheet **5** Of **9**

[illegible]



SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CODE OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION-1986-UPDATE NO. 9.
2. PROPOSED WATER LINE MATERIALS SHALL BE PVC PIPE, MEETING AWA C-900: DR18 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE MEETING AWA C-150 REQUIREMENTS (6"-48"). 2" WATER SERVICE PIPE MATERIAL SHALL BE COPPER OR MUNICIPAL.
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7. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE USED. ANY OTHER JOINTS INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
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TEMPORARY BENCHMARK #1 (T.B.M.)

A MAG NAIL W/WASHER SET IN CONCRETE SIDEWALK, IN THE
SOUTHWESTERN PORTION OF THE SITE, AS SHOWN ON THIS
SHEET.
ELEVATION = 5085.83 FEET (NAVD 88)

ITEM	LOCATION	NAD' 83 GRID COORDINATES (US SURVEY FEET)		
		NORTHING	EASTING	ELEVATION
VALVE "G"	STA 18+18.72	1478558.08	1526841.19	5082.91
VALVE "H"	STA 18+80	1478619.98	1526843.61	5082.33
VALVE "J"	STA 19+84.1	1478723.14	1526850.48	5083.99
FH #4	STA 18+18.72	1478556.42	1526869.2	5088.51

- REFER TO ABCWUA AVAILABILITY LETTER #170514 FOR SITE DOMESTIC WATER LINE AND FIRE PROTECTION REQUIREMENTS.
- SEE INDIVIDUAL SHEET FOR JOINT RESTRAINT LENGTH CALLOUTS.

THIS IS NOT A BOUNDARY SURVEY; BOUNDARY DATA DEPICTED HEREON IS BASED UPON A BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, 09/29/2017 (2016.185.6). TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 09/29/2017 (2016.185.6).

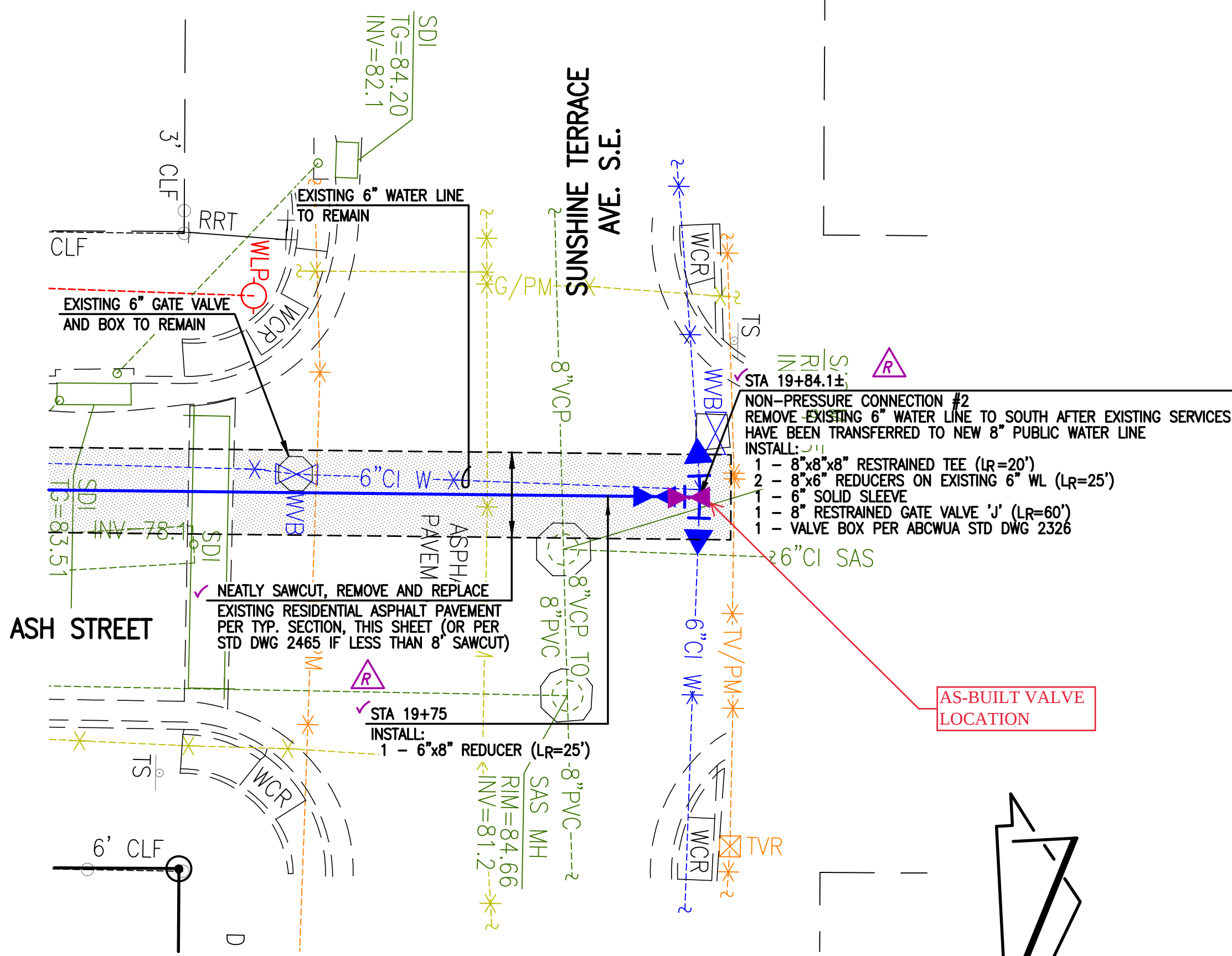
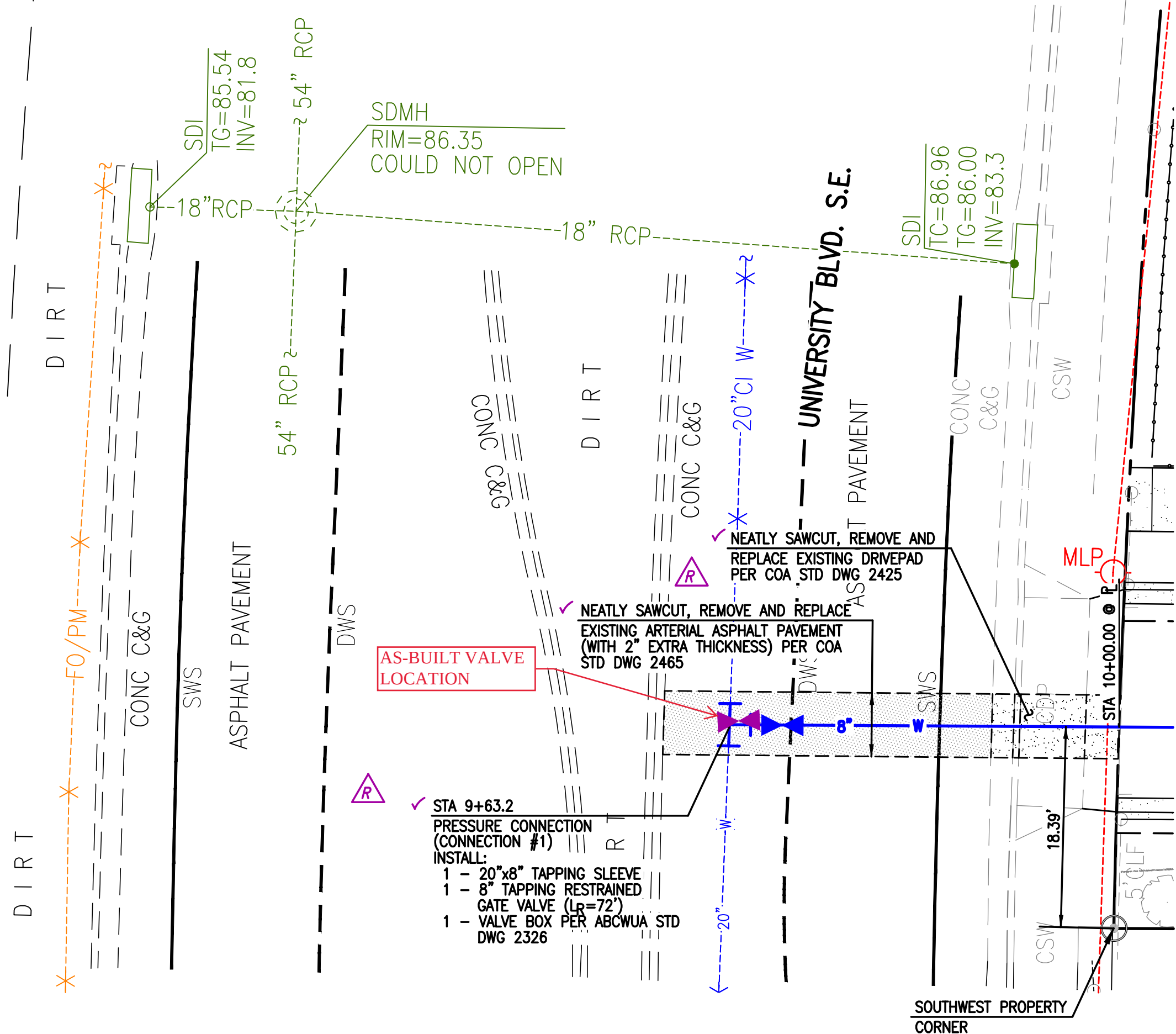
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

Design Review Committee	City Engineer Approval	Last Design Update
		Mo./Day/Yr.

ENLARGED PLAN (UNIVERSITY BLVD.)

SCALE: 1" = 10'



ENLARGED PLAN (SUNSHINE TERRACE AVE.)

SCALE: 1" = 10'

WATER VALVE SHUTOFF
PLAN NOTES:

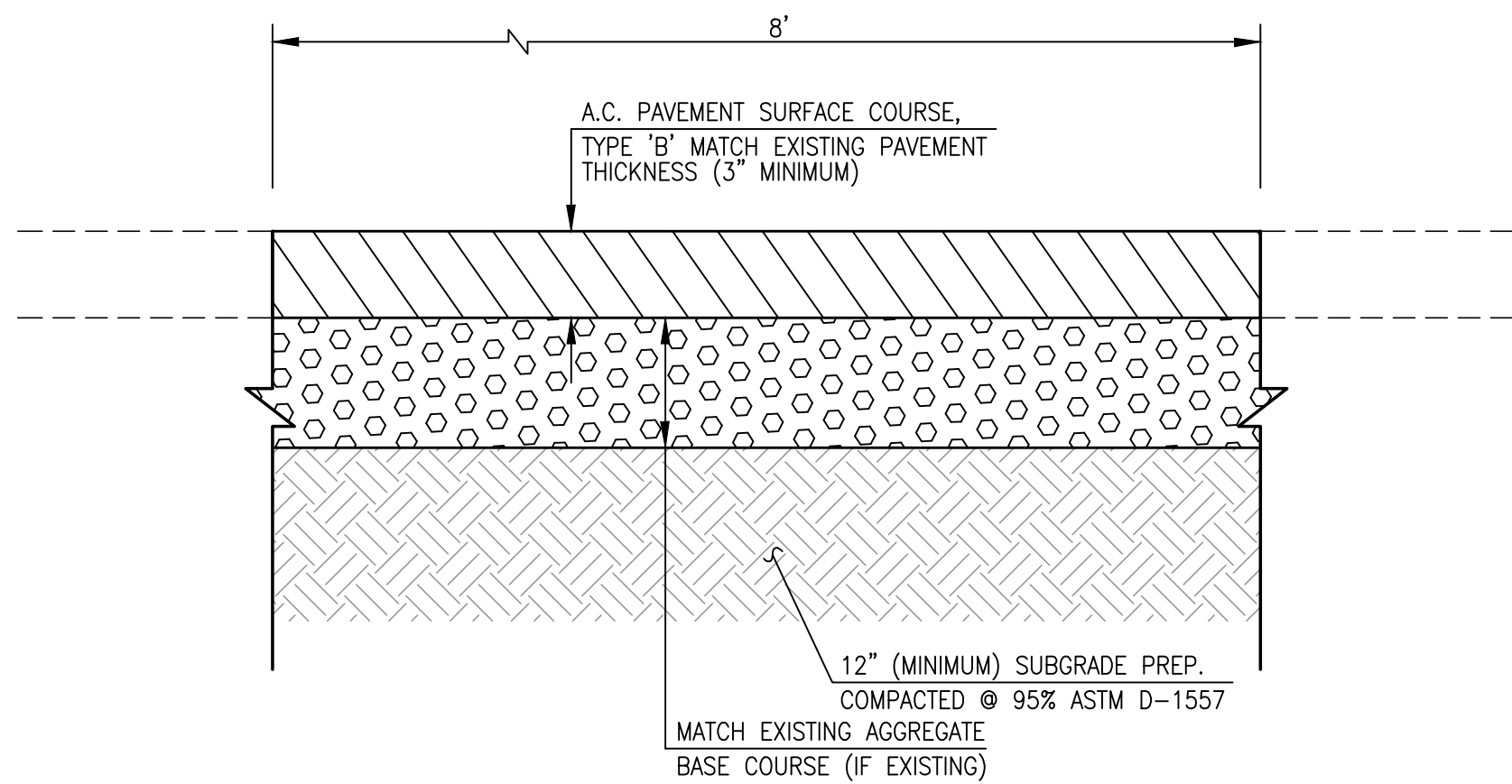
- THE FOLLOWING VALVES CAN BE CLOSED TO ISOLATE THE PROPOSED CONNECTIONS:
 - CONNECTION #1 (PRESSURE CONNECTION); VALVE #453, #456, #693, #843 AND #851
 - CONNECTION #2 (NON-PRESSURE CONNECTION); VALVE #951 AND #963 (FOR EMERGENCY SHUTOFF ONLY)
- WATER AUTHORITY PERSONNEL SHALL PERFORM ALL SHUTOFFS. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES THAT MAY AFFECT SYSTEM OPERATIONS.
- THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://www.abcwua.org/Water_Shut_off_and_Turn_on_Procedures.aspx
- WITHIN FIVE (5) DAYS AFTER RECEIPT OF CONTRACTOR'S SHUTOFF REQUEST, TRIAL SHUTOFFS WILL BE CONDUCTED. THE WATER AUTHORITY TO FURNISH LABOR AND APPURTENANCES NECESSARY TO VERIFY COMPLETENESS OF SHUTOFFS.
- THE CONTRACTOR SHALL HAVE ALL FITTINGS, MATERIALS AND EQUIPMENT ON SITE PRIOR TO VALVE SHUTOFF. ALL EXCAVATION SHALL BE COMPLETE EXCEPT AS NECESSARY TO MAINTAIN SAFE SYSTEM OPERATION WHILE UNDER PRESSURE.
- THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT ALL NECESSARY SHUTOFFS AND CONNECTIONS.
- EXISTING WATER VALVE AND WATER LINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE AUTOMATED WATER DISTRIBUTION SYSTEM SECTIONAL MAPS, MAP GRID WL-15 AT THE TIME OF WATER SHUTOFF APPLICATION, THE CONTRACTOR SHALL REQUEST THAT THE WATER AUTHORITY NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.

WATER LINE
CONSTRUCTION NOTES:

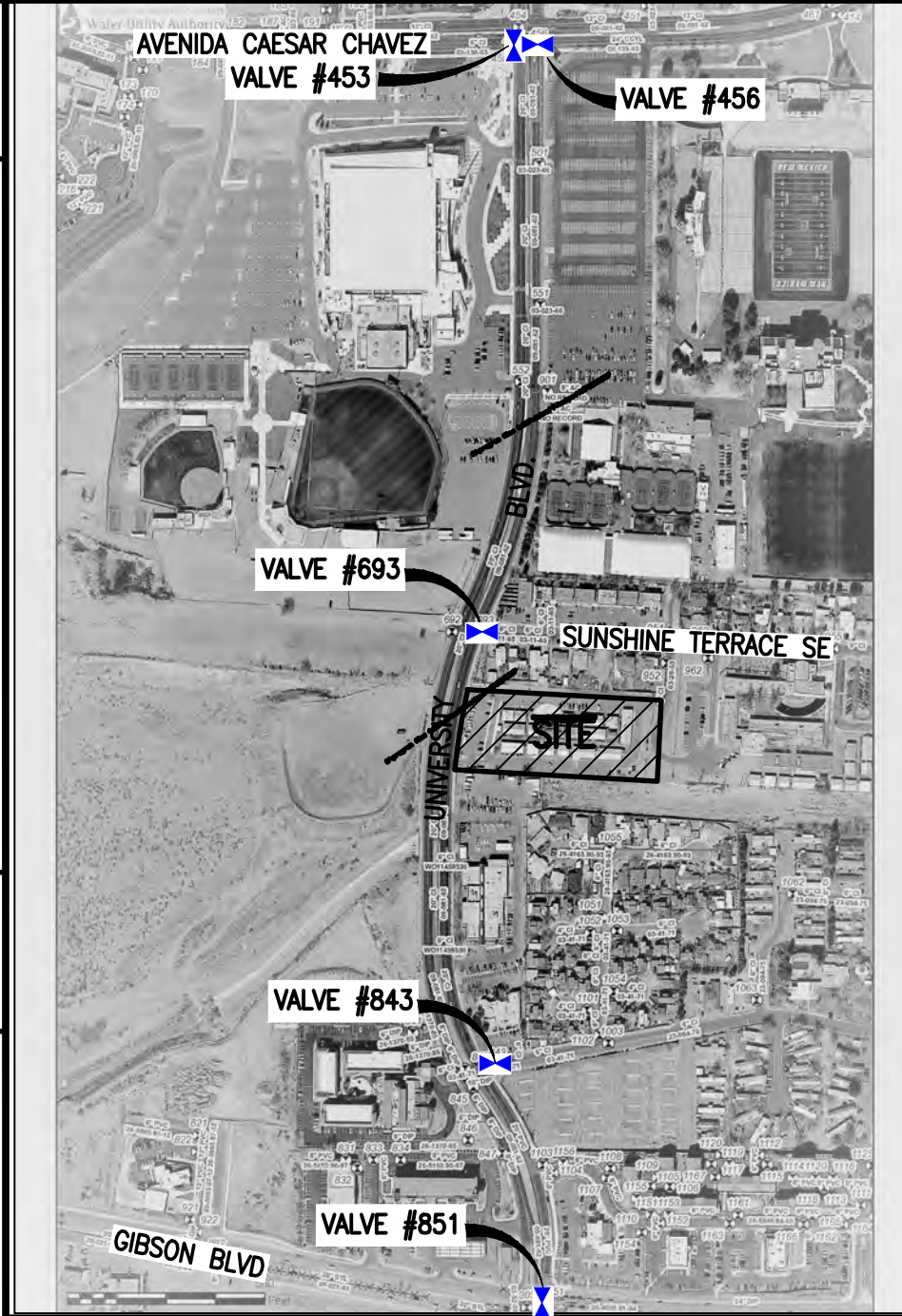
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS-PUBLIC WORKS CONSTRUCTION-1986-UPDATE NO. 9.
- PROPOSED WATER LINE MATERIALS SHALL BE PVC PIPE, MEETING AWWA C-900: DR18 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (6"-48"). 2" WATER SERVICE PIPE MATERIAL SHALL BE COPPER OR MUNICIPEX.
- ALL MATERIALS USED SHALL CONFORM WITH THE MATERIALS PRESENT ON THE "ABCWUA APPROVED PRODUCTS LIST, LATEST EDITION".
- WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE LINES AND HYDRANT LINES. SEE BUILD NOTES FOR RESTRAINT LENGTHS (LR).
- FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- NEW WATER LINE INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICE BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVES AND SERVICES. TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE. SEE SHEET 8.

RECORD DRAWING LEGEND	
	CONSTRUCT
	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
	RECORD INFORMATION FROM AS-BUILT SURVEY
	RECORD INFORMATION FROM AS-BUILT SURVEY
	RECORD INFORMATION FROM AS-BUILT SURVEY

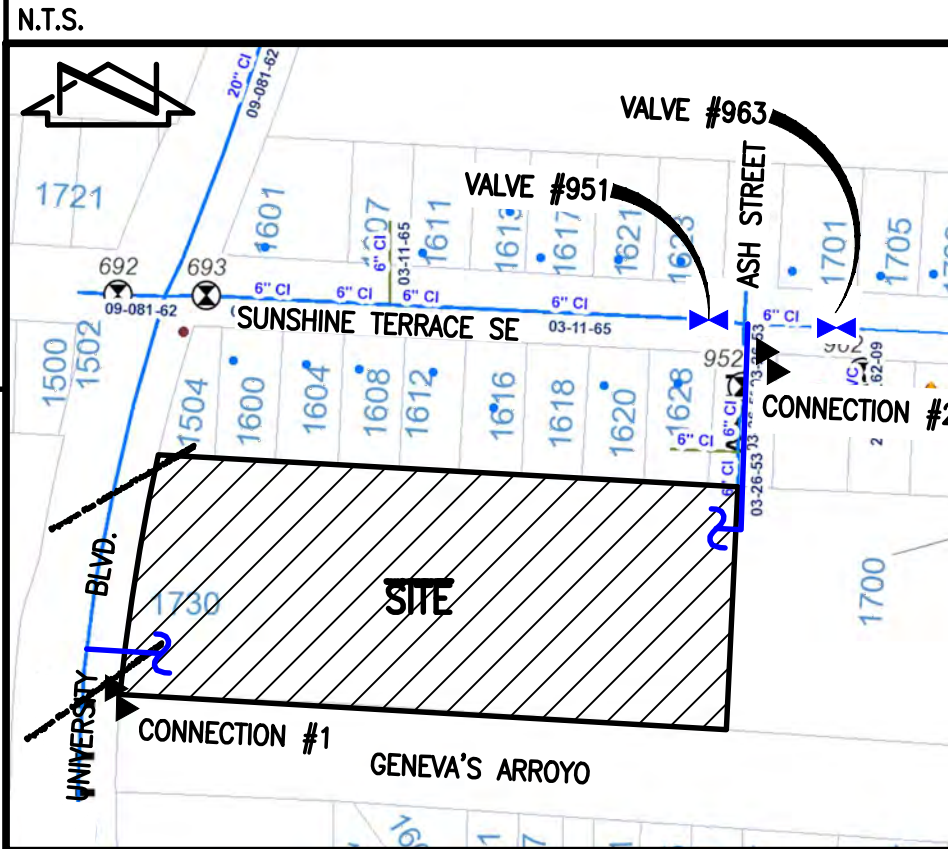
RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1



ASPHALT PAVEMENT PATCH SECTION
SCALE: 1" = 10'



WATER VALVE SHUTOFF MAP
FOR UNIVERSITY AVE.
(CONNECTION #1) WL-15



WATER VALVE SHUTOFF MAP
FOR SUNSHINE TERRACE AVE.
(CONNECTION #2) WL-15

- NOTE:
- REFER TO ABCWUA AVAILABILITY LETTER #170514 FOR SITE DOMESTIC WATER LINE AND FIRE PROTECTION REQUIREMENTS.
 - SEE INDIVIDUAL SHEET FOR JOINT RESTRAINT LENGTH CALLOUTS.

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; BOUNDARY DATA DEPICTED HEREON IS BASED UPON A BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, 09/29/2017 (2016.185.6). TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 09/29/2017 (2016.185.6).

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2016.185.7/2019.181.1

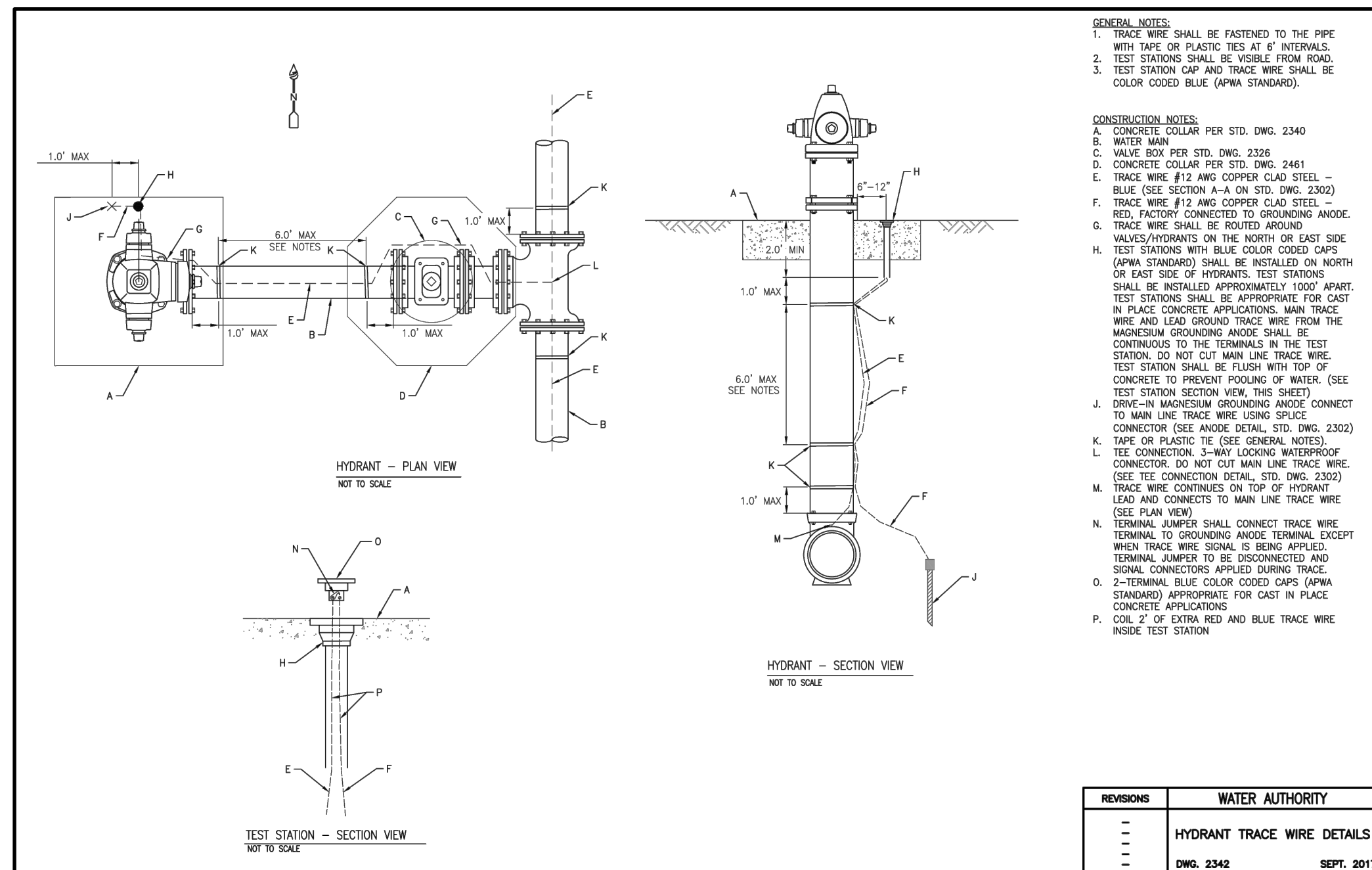
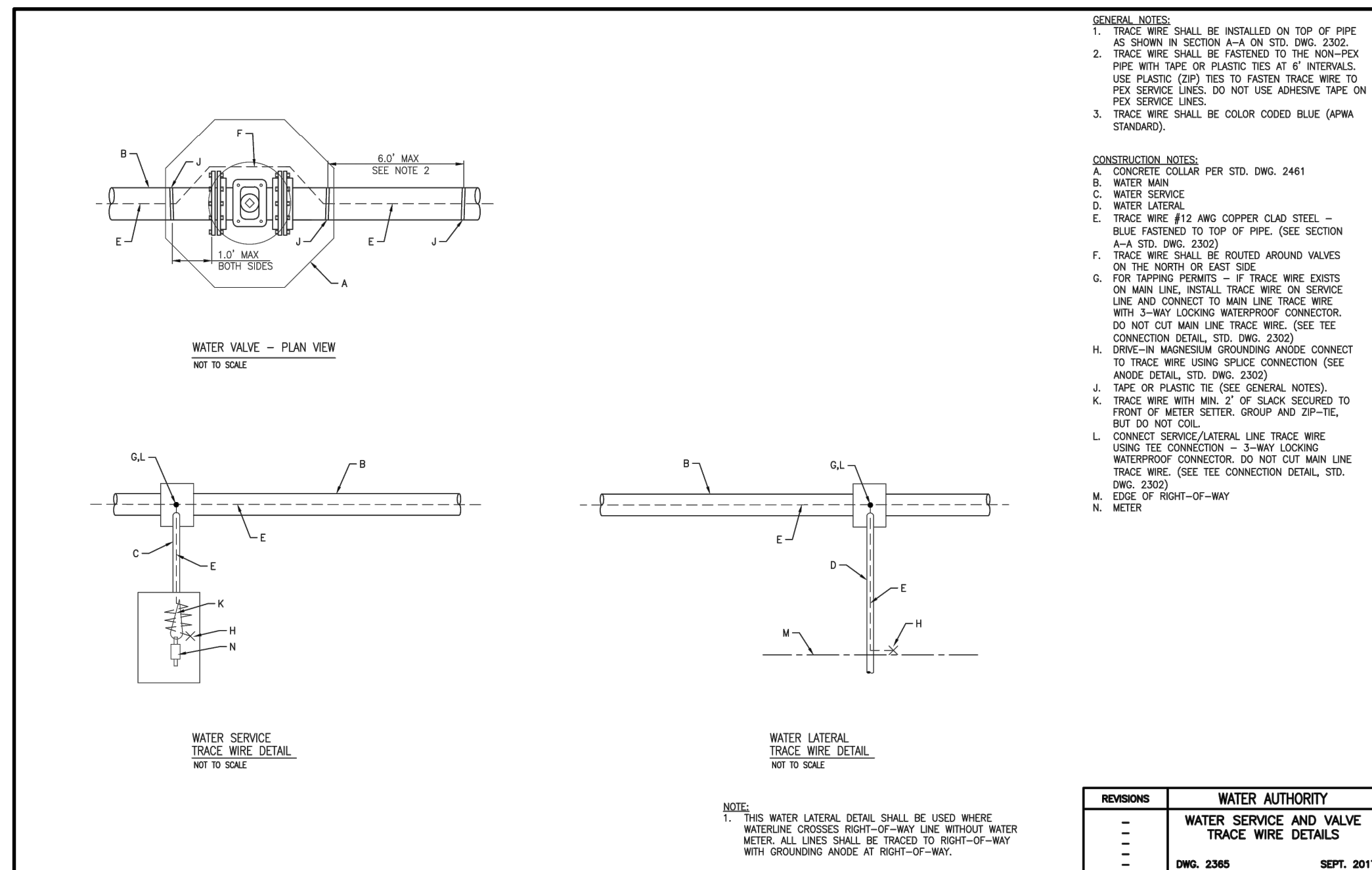
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS LOWELL WEST COMPLEX
PUBLIC WATER LINE IMPROVEMENTS
WATER VALVE SHUT-OFF PLAN,
ENLARGED WATER LINE CONNECTION PLANS

Design Review Committee APPROVED FEB 07 2019 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED MAR 06 2019 CITY ENGINEER	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 390493 Zone Map No. L-15 Sheet 7 Of 9

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR ALICOR	DATE 06/13/2019	AN AGRS 3 1/4" ALUMINUM DISC STAMPED "7-115 1984" SET FLUSH IN THE TOP OF CURB, ON THE WEST SIDE OF YALE BOULEVARD S.E., APPROXIMATELY 56 FEET NORTH OF THE CENTERLINE OF KATHRYN AVENUE S.E. ELEVATION = 5164.135 FEET (NAVD 88) X = 1,529,067.366 Y = 1,479,550.205	DATE 08/2019	BY HMCOS	DATE 10/10/19	DATE 12-2018	DATE 12-2018
INSPECTOR'S SURFACE BY HMCOS	DATE 08/2019	VERIFICATION BY HMCOS	DATE 08/2019	NO.	BY	REMARKS Revisions DESIGN	DESIGNED BY G.M./J.D.S.
FIELD CORRECTED BY HMCOS	DATE 08/2019	NO.					DRAWN BY J.Y.R./S.C.C.
MICRO-FILM INFORMATION							CHECKED BY G.M.



2016.185.7	/2019.181.1	A	R					NK		Dia	Bio	Che
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP												
TITLE: APS LOWELL WEST COMPLEX PUBLIC WATER LINE IMPROVEMENTS SECTIONS AND DETAILS												
Design Review Committee		City Engineer Approval			Last Design Update	Mo./Day/Yr.				Mo./Day/Yr.		
City Project No. 390493					Zone Map No. L-15		Sheet 8		Of 9			

06/20	AS-BUILT DRAWING	JDS	ENGINEER'S SEAL	SURVEY INFORMATION				BENCH MARKS	AS BUILT INFORMATION		
				FIELD NOTES					CONTRACTOR	ALTOR	
				NO.	BY	DATE	AN AGRS 3 1/4" ALUMINUM DISC STAMPED "7-1-15 1984" SET FLUSH IN THE TOP OF CURB, ON THE WEST SIDE OF YALE BOULEVARD S.E., APPROXIMATELY 56 FEET NORTH OF THE CENTERLINE OF KATHRYN AVENUE S.E. ELEVATION = 5164.135 FEET (NWD 88) X = 1,529,087.366 Y = 1,479,550.205				
				2016.181.8	HMC	3/14/17					
				2019.180.9	HMC	10/10/19					
				REMARKS							
				DESIGN							
Designed By				ABCWUA	Date		DRAWINGS CORRECTED BY HMC MICRO-FILM INFORMATION RECORDED BY NO.				
Drawn By				ABCWUA	Date						
Checked By				ABCWUA	Date						

