

ARABIAN ACRES METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM IMPROVEMENT PROJECT
FINAL ENGINEERING DRAWINGS
MARCH 2020

NOTES:

GENERAL:

- PROJECT ADDRESS: 72 SILBANI LANE, FLORISSANT, COLORADO, 80866.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL GIVE THE OWNER SEVENTY-TWO (72) HOURS ADVANCE NOTICE.
- NO BELOW GRADE UTILITIES WERE LOCATED FOR THIS PLAN SET. CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANY. CONTRACTOR IS RESPONSIBLE TO PROTECT UTILITIES DURING CONSTRUCTION. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, OWNER AND CONTRACTOR SHALL COORDINATE WITH ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION(S) MUST BE APPROVED BY THE OWNER PRIOR TO BEGINNING CONSTRUCTION AFFECTED. FOR UTILITY LOCATE INFORMATION, CONTACT UNCC: (800) 922-1987.
- ACTUAL LOCATIONS, DISTANCES, AND ELEVATIONS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS. CONTRACTOR TO FIELD VERIFY CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR SHALL BE REQUIRED TO RESTORE THE ROUTE OF WORK AND ANY DAMAGED EXISTING LANDSCAPE, STRUCTURES, OR IMPROVEMENTS AS THE RESULT OF WORK TO ORIGINAL CONDITION OR BETTER PRIOR TO ACCEPTANCE OF WORK. CONTRACTOR RESPONSIBLE FOR RESTORING SITE TO PRE-CONSTRUCTION CONDITION.
- NO UTILITY SERVICE MAY BE DISCONNECTED WITHOUT PRIOR APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY PORTABLE RESTROOM FACILITIES FOR THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL EXHIBIT NECESSARY SAFETY PRECAUTIONS DURING CONSTRUCTION, WHICH INCLUDES, BUT IS NOT LIMITED TO, SIGNAGE, SECURITY, AND EXCAVATION AS SET FORTH BY OSHA, PUBLICATION 2226, "EXCAVATION AND TRENCHING OPERATIONS."
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN INCLUDING BUT NOT LIMITED TO A COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT CONSTRUCTION STORM WATER PERMIT.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING VALVES, WATERLINES, STRUCTURES, AND OUTFALLS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL RECONNECT ALL WATERLINE LATERALS TO WATERLINE DURING REPLACEMENT. EXISTING LATERAL CONNECTIONS ARE SHOW ON PLAN BUT THE LOCATIONS ARE APPROXIMATE. LATERAL DIAMETER AND MATERIALS VARIES. CONTRACTOR SHALL SUPPLY CONNECTION FITTINGS.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS POTABLE WATER SERVICE TO EACH RESIDENCE DURING INSTALLATION OF WATER LINES.
- TELLER COUNTY REQUIREMENTS:
 - CONTRACTOR SHALL VIDEO TAPE ALL ROADS WITH TELLER COUNTY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RETURN ROADS TO EQUAL OR GREATER CONDITION THAN BEFORE CONSTRUCTION AS VERIFIED BY VIDEO.
 - TELLER COUNTY WILL ONLY ISSUE PERMITS FOR ONE (1) ROAD SEGMENT AT A TIME. THE CONTRACTOR WILL NOT BE ALLOWED TO OBTAIN PERMIT FOR THE NEXT ROAD SEGMENT UNTIL TELLER COUNTY HAS APPROVED THE PREVIOUS ROAD SECTIONS PUNCH LIST.
 - THE CONTRACTOR WILL NEED TO OBTAIN PROPER TELLER COUNTY LICENSES, CONTACT TELLER COUNTY COMMUNITY DEVELOPMENT SERVICES DIVISION (CDS) (719) 687-3048.
 - CONTRACTOR SHALL NOT GRADE ROADS WITH BACKHOES AND SKID STEERS.
 - GENERALLY ROAD WORK WITHIN TELLER COUNTY R.O.W. WILL END IN OCTOBER DEPENDING ON FROST.
- THE MINIMUM BURY DEPTH FOR ALL WATERLINES ARE 7'.
- MAINTAIN 2' OF VERTICAL SEPARATION BETWEEN ALL TRENCHED WATERLINES AND EXISTING GAS LINES.
- THE CONTRACTOR SHALL MAINTAIN ON SITE A FULL SET OF CONSTRUCTION DRAWINGS, RECORDING ALL INFORMATION PERTAINING TO THE CONSTRUCTION OF THE DRINKING WATER TREATMENT PLANT IMPROVEMENTS. THESE RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- HORIZONTAL AND VERTICAL DEFLECTION OF THE PIPES SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS FOR THE PIPE MATERIAL AND TEST PRESSURE SPECIFIED.
- THE HORIZONTAL DATUM IS COLORADO STATE PLANE COORDINATES (NAD 83), COLORADO ZONE 0502 (CENTRAL). THE VERTICAL DATUM IS NAVD 1988.
- CONTRACTOR SHALL NOT SCALE FROM DRAWINGS FOR CONSTRUCTION PURPOSES. ANY MISSING DIMENSIONS OR DISCREPANCIES IN PLANS, FIELD STAKING, FIELD CONDITIONS OR PHYSICAL FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF CONTRACTOR PROCEEDS WITH THE WORK WITHOUT NOTIFYING ENGINEER HE DOES SO AT HIS OWN RISK.
- IF CONFLICTS, QUESTIONS OR INTERPRETATION ARE REQUIRED CONTACT THE ENGINEER IN WRITING WITH A REQUEST FOR INFORMATION (RFI).

SPECIFICATIONS:

- PIPING SHALL BE HDPE DR 11 DIPS UNLESS OTHERWISE NOTED.
- PIPE DESIGN PRESSURE: 200 PSI
- NORMAL OPERATING PRESSURE: 20 PSI TO 165 PSI
- PIPING SHALL BE DISINFECTED FOLLOWING ANSI/AWWA C651-14.
- ALL WETTED MATERIALS SHALL BE NSF 61 RATED.



PROJECT TEAM:

OWNER:
ARABIAN ACRES METROPOLITAN DISTRICT
ATTN: WALKER SCHOOER DISTRICT MANAGERS
614 N. TEJON ST
COLORADO SPRINGS, CO 80903

PROJECT MANAGER/CIVIL ENGINEER:
AQUAWORKS DBO, INC.
MR. ADAM SOMMERS, P.E.
3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

SURVEYOR:
GALLOWAY & COMPANY, INC.
MR. PERRY BASSETT, PLS
1755 TELSTAR DRIVE, SUITE 107
COLORADO SPRINGS, CO 80920
(719) 900-7220

SYSTEM OPERATOR:
MR. LYNN WILLOW
5305 WHIMSICAL DRIVE
COLORADO SPRINGS, CO 80917
(719) 482-1525

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
G - 01	COVER
G - 02	PROJECT LAYOUT
C - 01	KENWOOD DR WATER LINE
C - 02	CR 42 WATERLINE
C - 03	DANI GROOVE WATERLINE - I
C - 04	DANI GROOVE WATERLINE - II
C - 05	DEER RIDGE TR WATERLINE - I
C - 06	DEER RIDGE TR WATERLINE - II
C - 07	JENWOOD DR WATER LINE - I
C - 08	JENWOOD DR WATER LINE - II
C - 09	DENWOOD DR WATERLINE
C - 10	SILBANI DR WATERLINE - I
C - 11	SILBANI DR WATERLINE - II
C - 12	DONZI TR WATERLINE - I
C - 13	DONZI TR WATERLINE - II
C - 14	DONZI TR WATERLINE - III
C - 15	SILDONA TRAIL TR WATERLINE
C - 16	LA ABU TRAIL - DUSTI CIRCLE
C - 17	LADY LN TO GERKA LN WATERLINE
C - 18	TIDI RD TO BANNER TR WATERLINE
C - 19	BANNER TR TO GOLDEN LN WATERLINE
C - 20	GERKA LN WATERLINE
C - 21	GERKA LN TO SILVER TR WATERLINE
C - 22	SILVER TR WATERLINE
C - 23	BANNER TR II WATERLINE - I
C - 24	BANNER TR II WATERLINE - II
C - 25	RAW WATERLINE I - I
C - 26	RAW WATERLINE I - II
C - 27	TEMPORARY TRAFFIC CONTROL PLAN DETAILS
C - 28	DETAILS - I
C - 29	DETAILS - II
C - 30	EROSION CNTRL DETAILS

LEGEND:

---	W	---	W	---	PROPOSED WATER LINE
----		----		----	PROPOSED EROSION CONTROL LOG
o					PROPOSED REMOVABLE GUARD POST
---		---		---	PROPERTY LINE
---		---		---	EXISTING EASEMENT
---		---		---	EXISTING SETBACK
X					EXISTING FENCE
---	W	---	W	---	EXISTING WATER LINE
---	G	---	G	---	EXISTING GAS LINE
---	UT	---	UT	---	EXISTING TELEPHONE
---	E	---	E	---	EXISTING UNDERGROUND ELECTRIC
---	OHE	---	OHE	---	EXISTING OVERHEAD ELECTRIC
---	110	---	110	---	CONTOUR MAJOR (EXIST)
---	110	---	110	---	CONTOUR MINOR (EXIST)
---		---		---	EXISTING RIGHT OF WAY
BT					EXISTING TELECOM BOX
o					EXISTING POWER POLE
WM					EXISTING OR PROPOSED WATER METER
WM					EXISTING OR PROPOSED GATE VALVE
o					EXISTING OR PROPOSED FIRE HYDRANT
o					EXISTING TREE
W					PROPOSED ARV VAULT

RELEASED FOR
CONSTRUCTION
5/21/2020

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
FILE PRINTED ON: 3/27/2020 2:28:32 PM
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DRAWING SIZE: 22" X 34"

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USE OF DOCUMENTS

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COVER

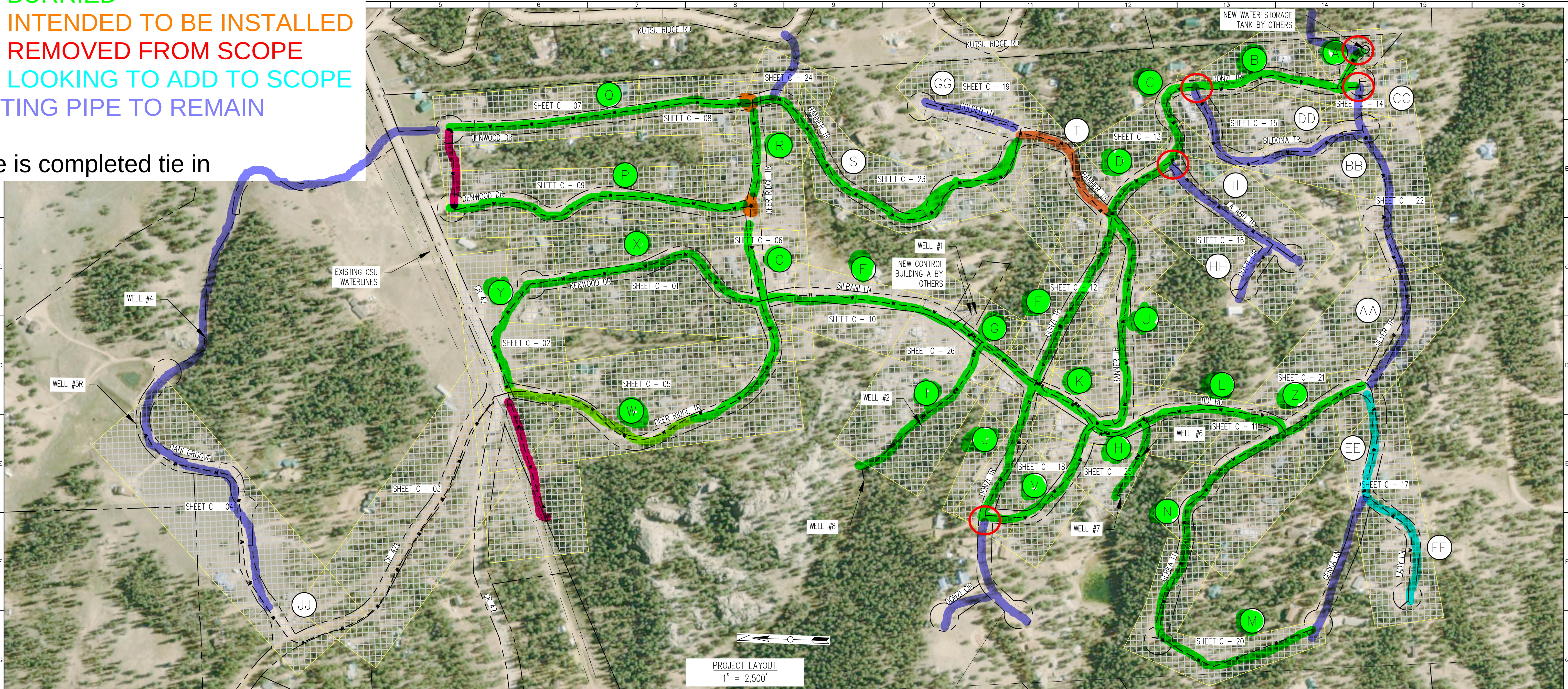
NONE

SHEET NUMBER:

G - 01

PIPE BURRIED
PIPE INTENDED TO BE INSTALLED
PIPE REMOVED FROM SCOPE
PIPE LOOKING TO ADD TO SCOPE
EXISTING PIPE TO REMAIN

Circle is completed tie in



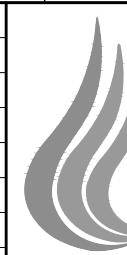
Segment	Starting Intersection	Ending Intersection	Pipe Diameter (in)	Begin Station	End Station	Length (ft)	Residential Taps	Gate Valves	Blow-offs	High Point
A	Tank Drain	Tank Drain	4"	1+00	2+80	180	2	2	0	0
B	Donzi and Sildona	Watertank	4"	22+91	30+04	713	5	2	1	0
C	Donzi and La Abu	Donzi and Sildona	4"	18+57	22+91	434	4	2	0	0
D	Donzi and Banner	Donzi and La Abu	4"	14+98	18+57	359	3	2	0	0
E	Donzi and Tidi	Donzi and Banner	4"	7+17	14+98	781	5	3	0	0
F	Deer Ridge and Silbani	Silbani and Donzi	4"	1+00	13+69	1269	7	2	1	1
G	Raw Water in Street	Raw Water in Street	2"	4+56	14+24	968	0	2	0	1
H	Raw Water - Well #6 and #7	Raw Water - Well #6 and #7	2"	1+00	4+56	356	0	1	0	0
I	Raw Water - Well #2 and #8	Raw Water - Well #2 and #8	2"	1+00	8+60	760	0	1	0	0
J	Donzi and Tidi	Donzi and Tidi	4"	1+00	7+17	617	4	3	1	0
K	Silbani and Donzi	Silbani and Banner	4"	13+69	16+82	313	0	2	0	1
L	Tidi and Banner	Tidi and Gerka	4"	16+82	25+56	874	2	2	1	0
M	Old Abandoned Line	Old Abandoned Line	4"	1+00	8+21	721	2	2	1	2
N	Abandon and Gerka	Gerka and Tidi	4"	8+21	19+27	1106	6	3	1	1
O	Deer Ridge and Kenwood	Deer ridge and Denwood	4"	16+60	20+61	401	3	2	0	0
P	Denwood and Deer Ridge	Denwood and CR 42	4"	1+00	14+03	1303	7	3	1	0
Q	Deer Ridge and Jenwood	Jenwood and CR 42	4"	1+00	17+26	1626	6	5	1	0
R	Deer ridge and Denwood	Deer Ridge and Jenwood	4"	20+61	25+22	461	3	3	0	1

PROJECT LAYOUT
1" = 2,500'

Item Completed
Item in Progress

Segment	Starting Intersection	Ending Intersection	Pipe Diameter (in)	Begin Station	End Station	Length (ft)	Residential Taps	Gate Valves	Blow-offs	High Point
S	Banner and Golden	Banner and Deer Ridge	4"	1+00	16+70	1570	8	3	0	1
T	Banner and Donzi	Banner and Golden	4"	18+10	24+07	597	5	2	0	0
U	Banner and Tidi	Banner and Donzi	4"	7+71	18+10	1039	4	2	1	1
V	Banner and Donzi	Banner and Tidi	4"	1+00	7+71	671	4	2	1	1
W	Deer Ridge and CR 42	Deer Ridge and Kenwood	4"	1+00	16+60	1560	5	2	0	0
X	Kenwood and CR 42	Kenwood and Deer Ridge	4"	1+00	11+67	1067	5	5	0	0
Y	Kenwood and CR 42	CR 42 Last Lot	4"	1+00	12+00	600	1	2	1	1
Z	Gerka and Tidi	Gerka and Silver	4"	19+27	23+34	407	1	2	1	0
AA	Golden and Silbani	Silbani and Golden	4"	23+04	24+60	156	1	1	1	1
BB	Banner and Denwood	Denwood and Banner	4"	20+61	21+60	99	1	1	1	1
CC	Donzi and Golden	Golden and Donzi	4"	21+60	21+60	0	0	0	0	0
DD	Donzi and Sildona	Sildona and Donzi	4"	21+60	21+60	0	0	0	0	0
EE	Lady In and Gerka	Gerka In and Silver Tr	4"	6+46	11+47	501	4	3	0	0
FF	Lady lane cul-de-sac	Lady In and Gerka	4"	1+00	6+46	1092	5	2	1	1

REV. No.	DATE:	BY:	REVISION DESCRIPTION:



AquaWorks DBO
DESIGN BUILD OPERATE
3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



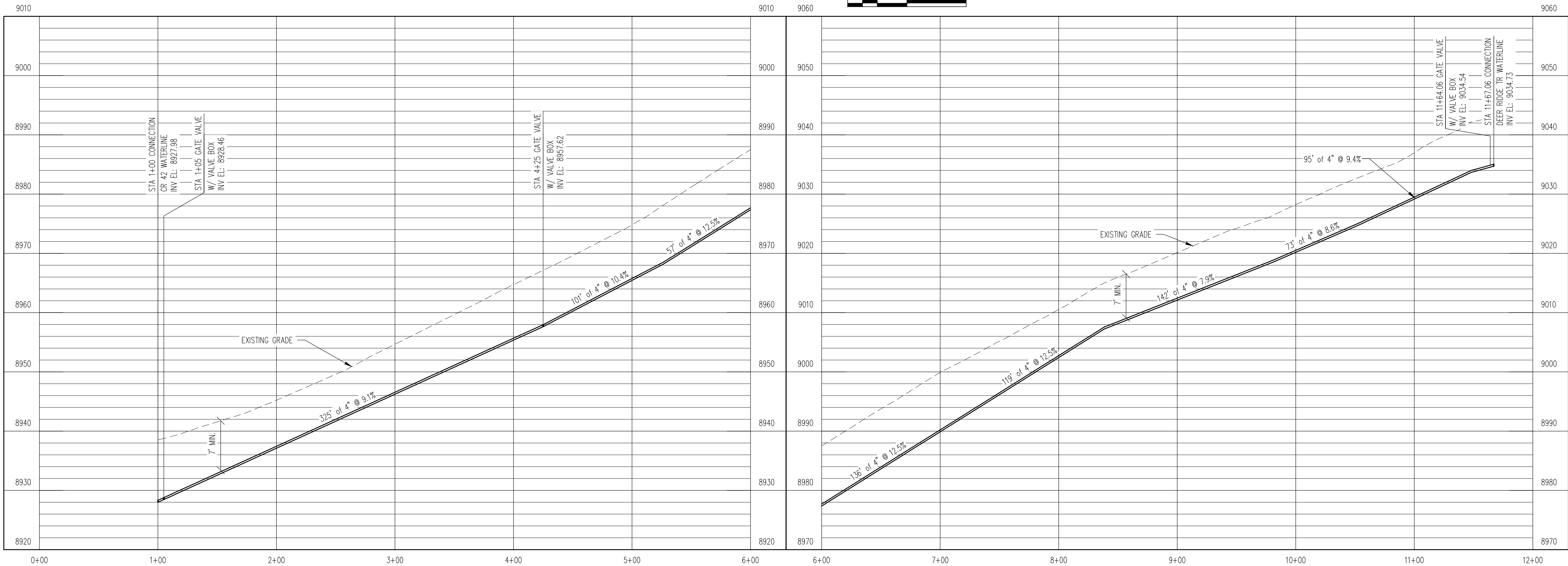
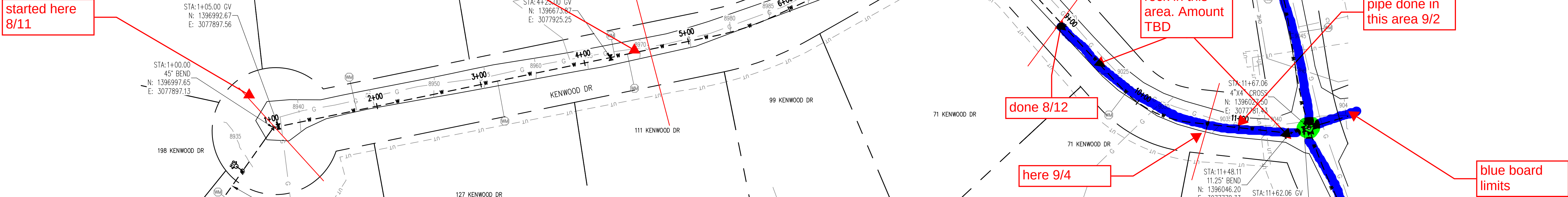
PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROESSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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PROJECT LAYOUT
1" = 2,500'
SHEET NUMBER:
G - 02

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5/21/2020

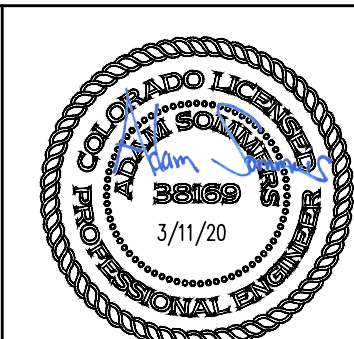


WATERLINE PROFILE
V: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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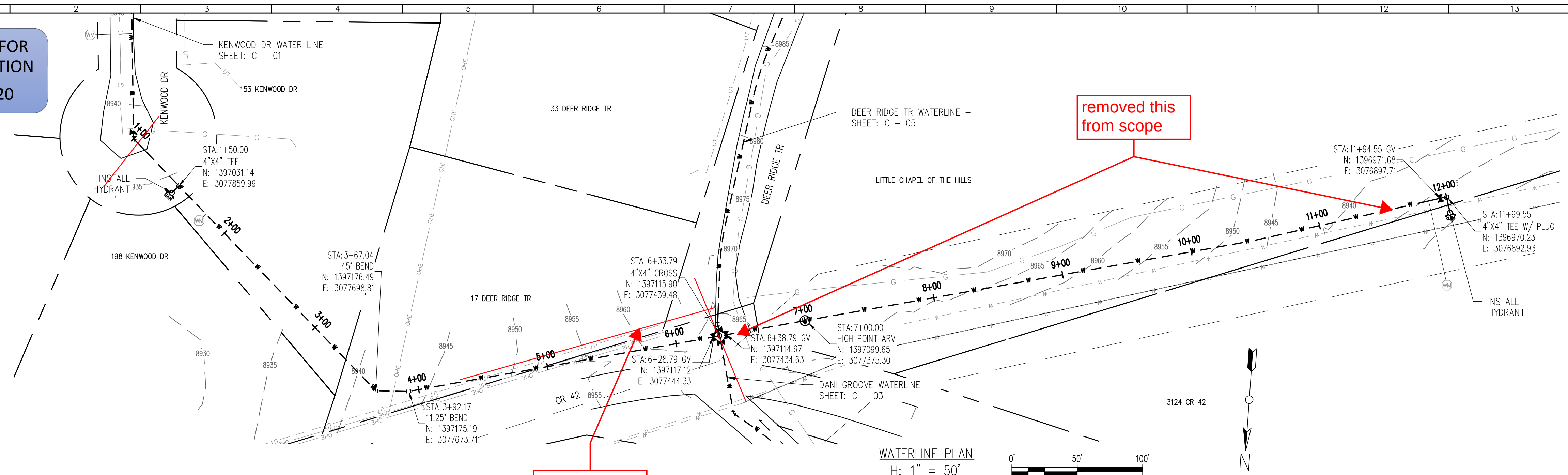
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KENWOOD DR WATERLINE
STA 1+00 TO END

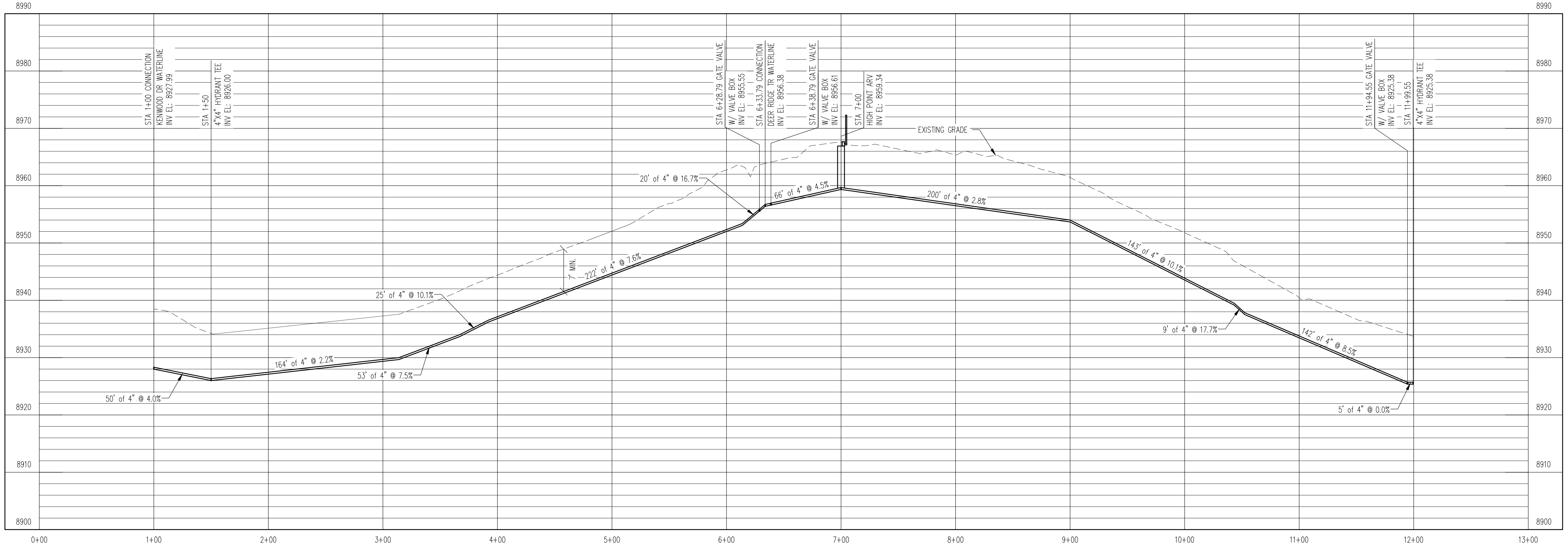
SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 01

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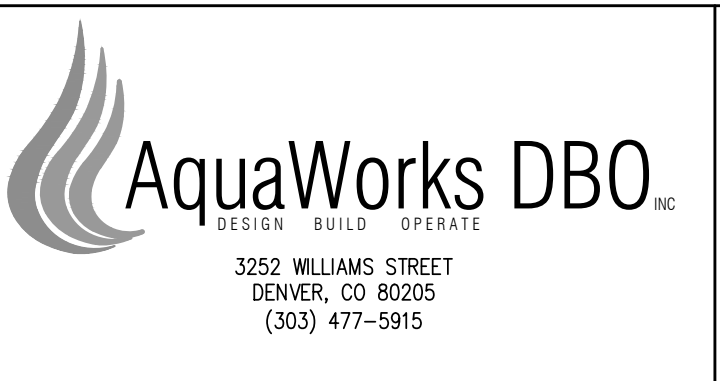


Done
8/12/2020



WATERLINE PROFILE
V: 1" = 10'

REV. No.	DATE	BY	REVISION DESCRIPTION



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT

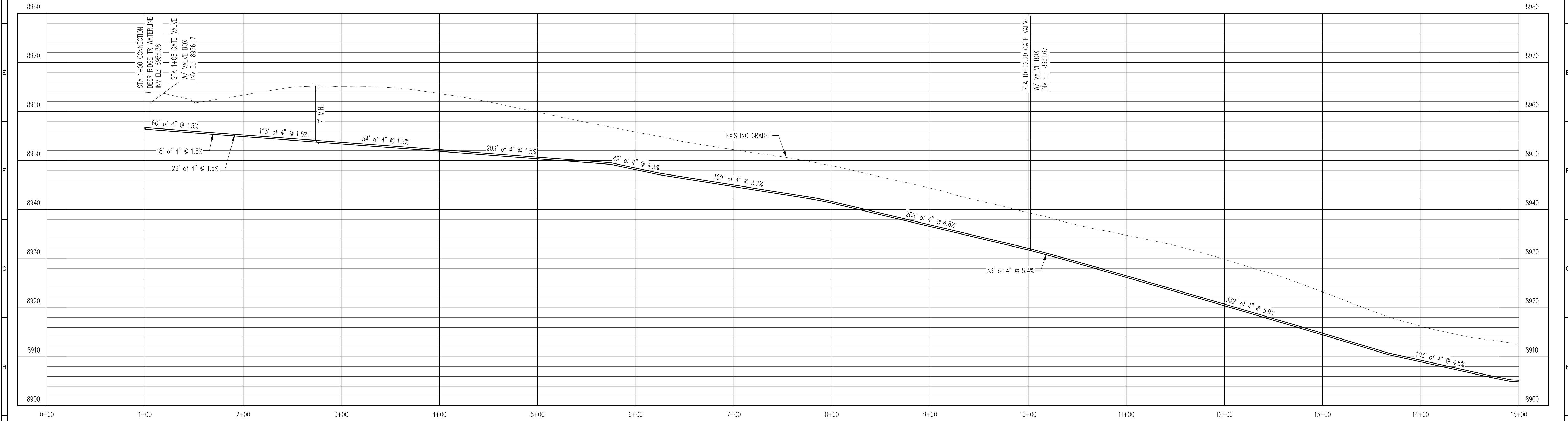
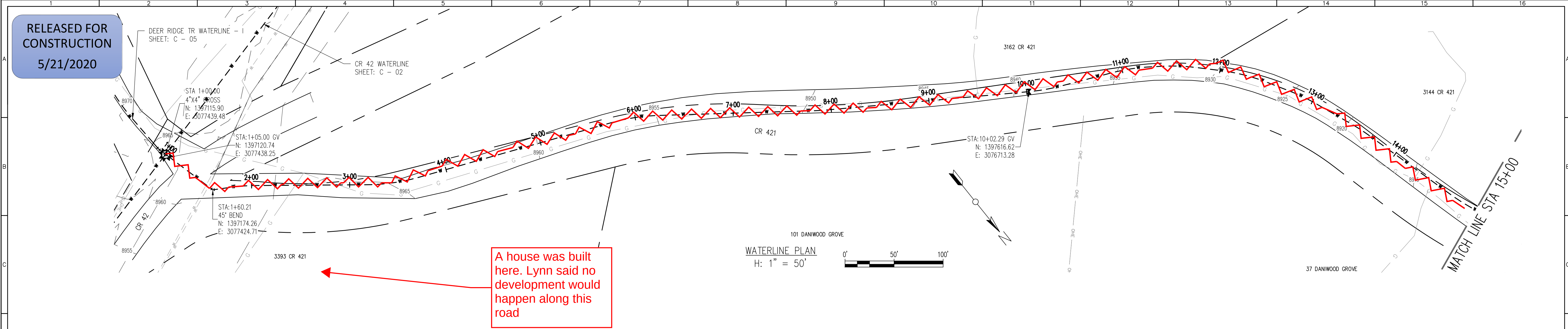


PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1299
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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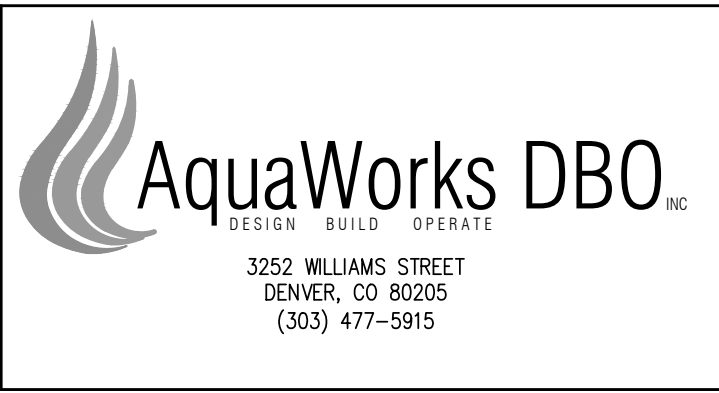
CR 42 WATERLINE
STA 1+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 02



WATERLINE PROFILE
V: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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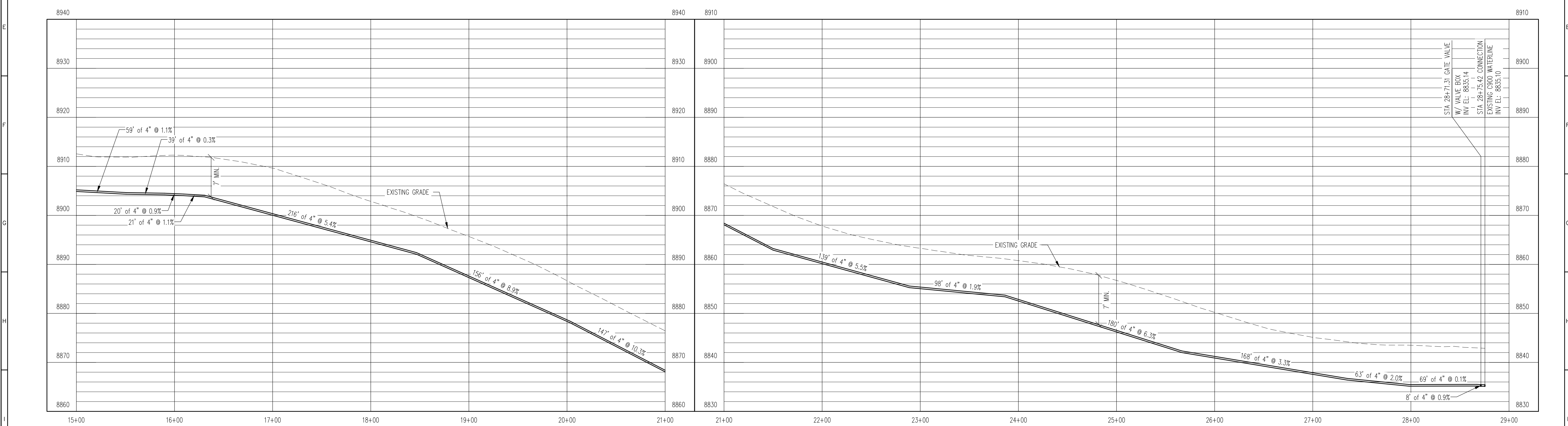
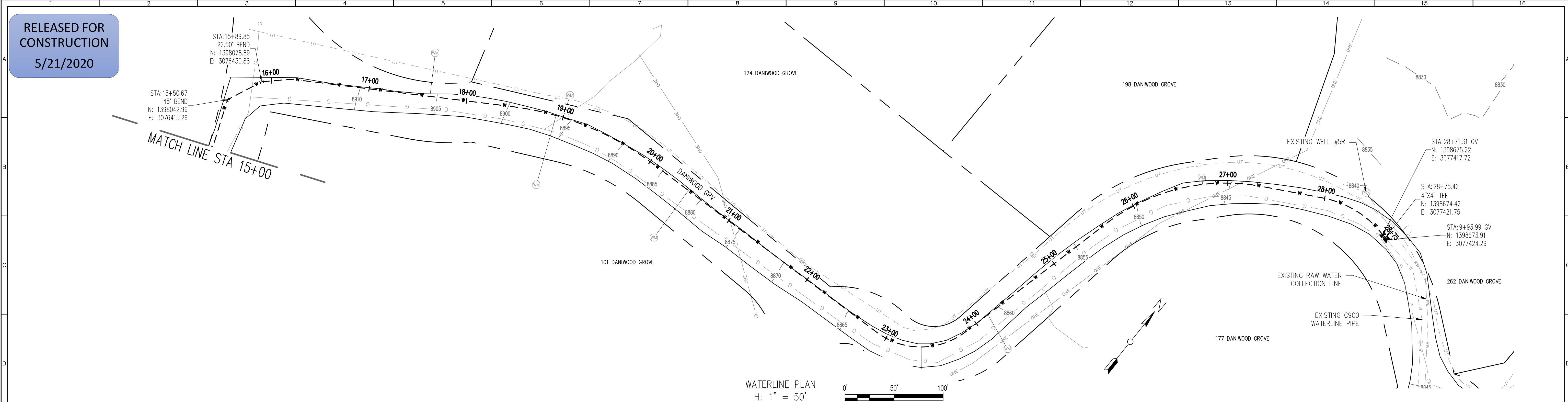
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DANI GROOVE WATERLINE - I
STA 1+00 TO STA 14+00

SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 03



REV. No.	DATE	BY	REVISION DESCRIPTION

3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT

PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1259
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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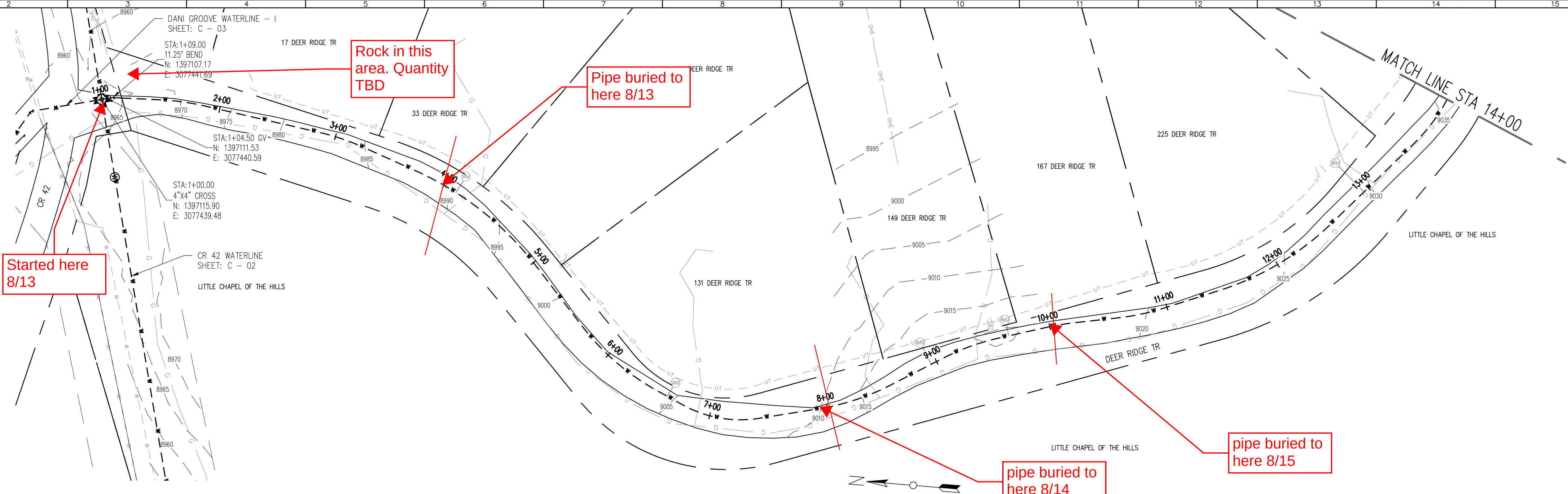
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DANI GROOVE WATERLINE - II
STA 14+00 TO END

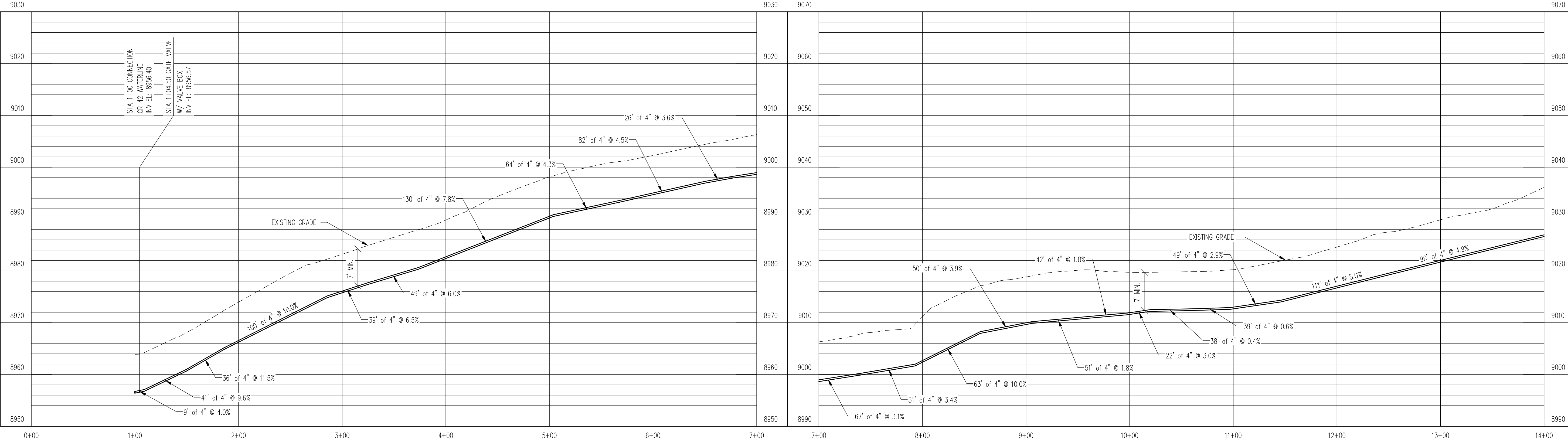
SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 04

RELEASED FOR
CONSTRUCTION
5/21/2020



WATERLINE PLAN
H: 1" = 50'



WATERLINE PROFILE
V: 1" = 10'

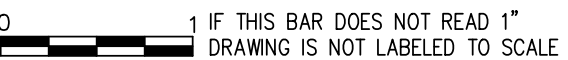
REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
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DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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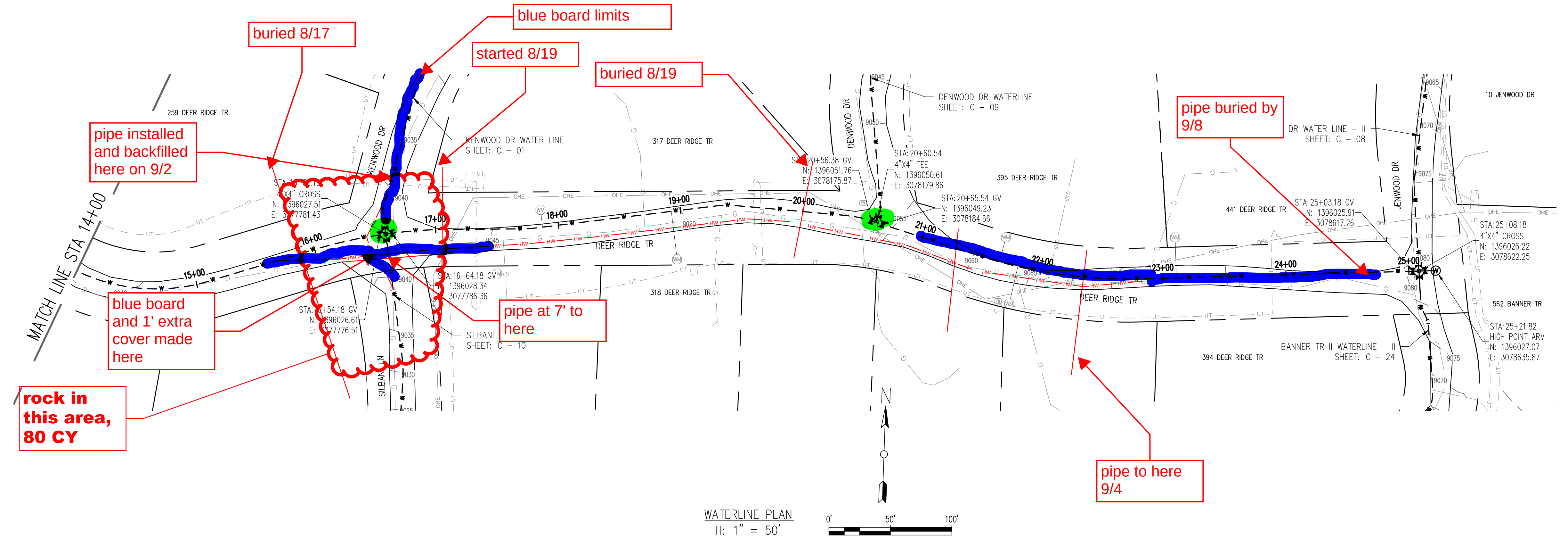


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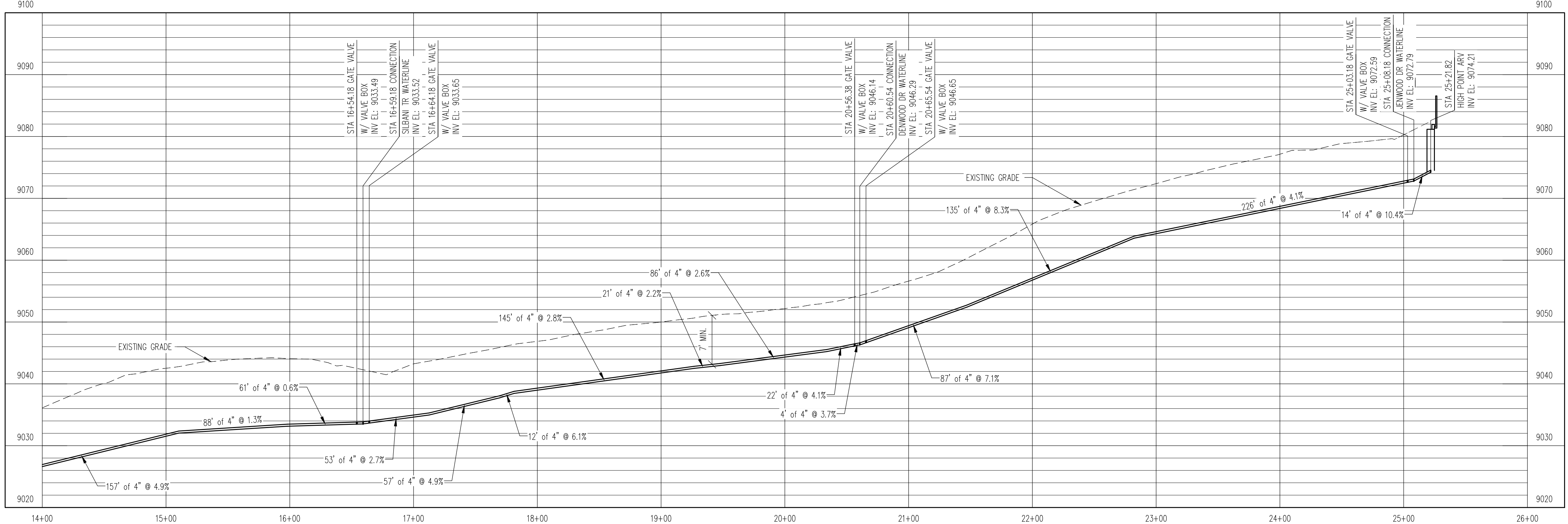
DEER RIDGE TR WATERLINE - I
STA 1+00 TO STA 14+00

SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 05

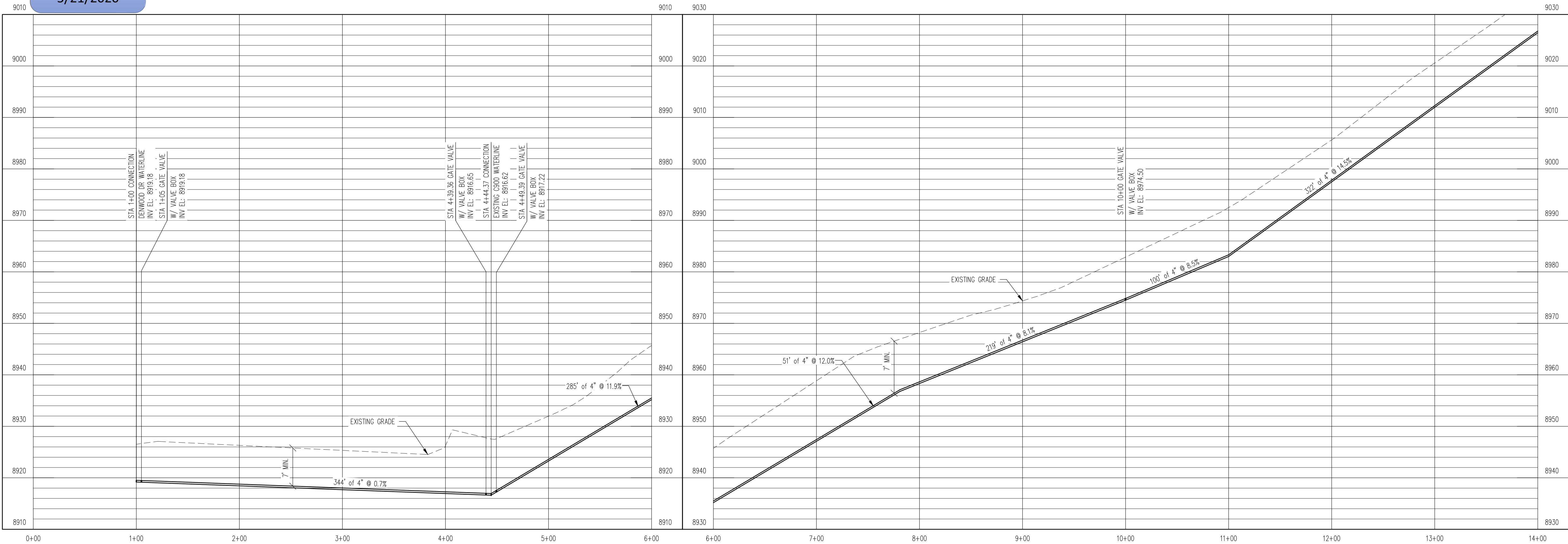
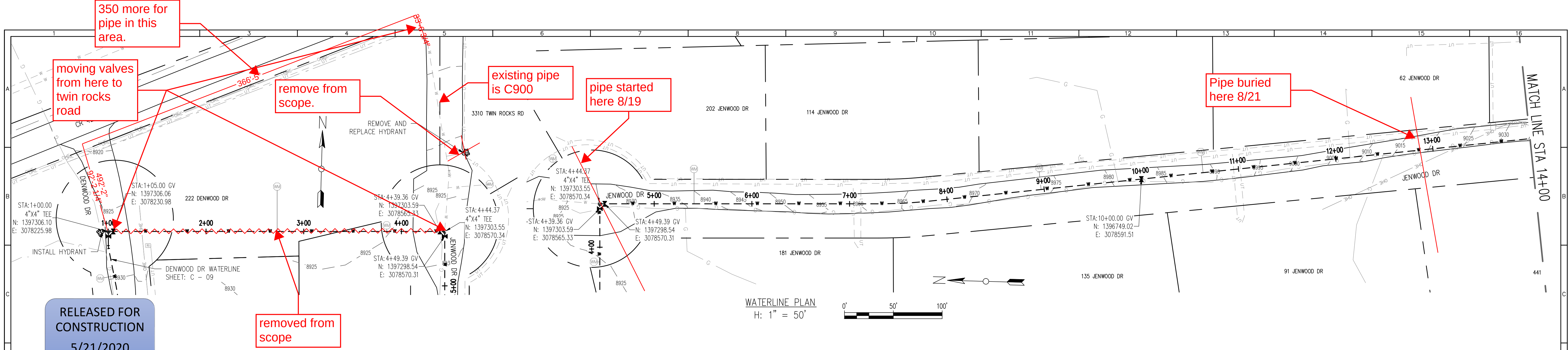
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CONSTRUCTION
5/21/2020



WATERLINE PLAN
H: 1" = 50'



WATERLINE PROFILE
V: 1" = 10'



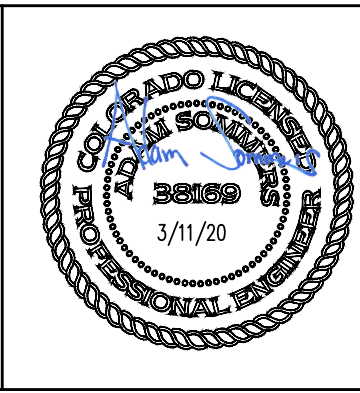
WATERLINE PROFILE
V: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



AquaWorks DBO
DESIGN BUILD OPERATE
3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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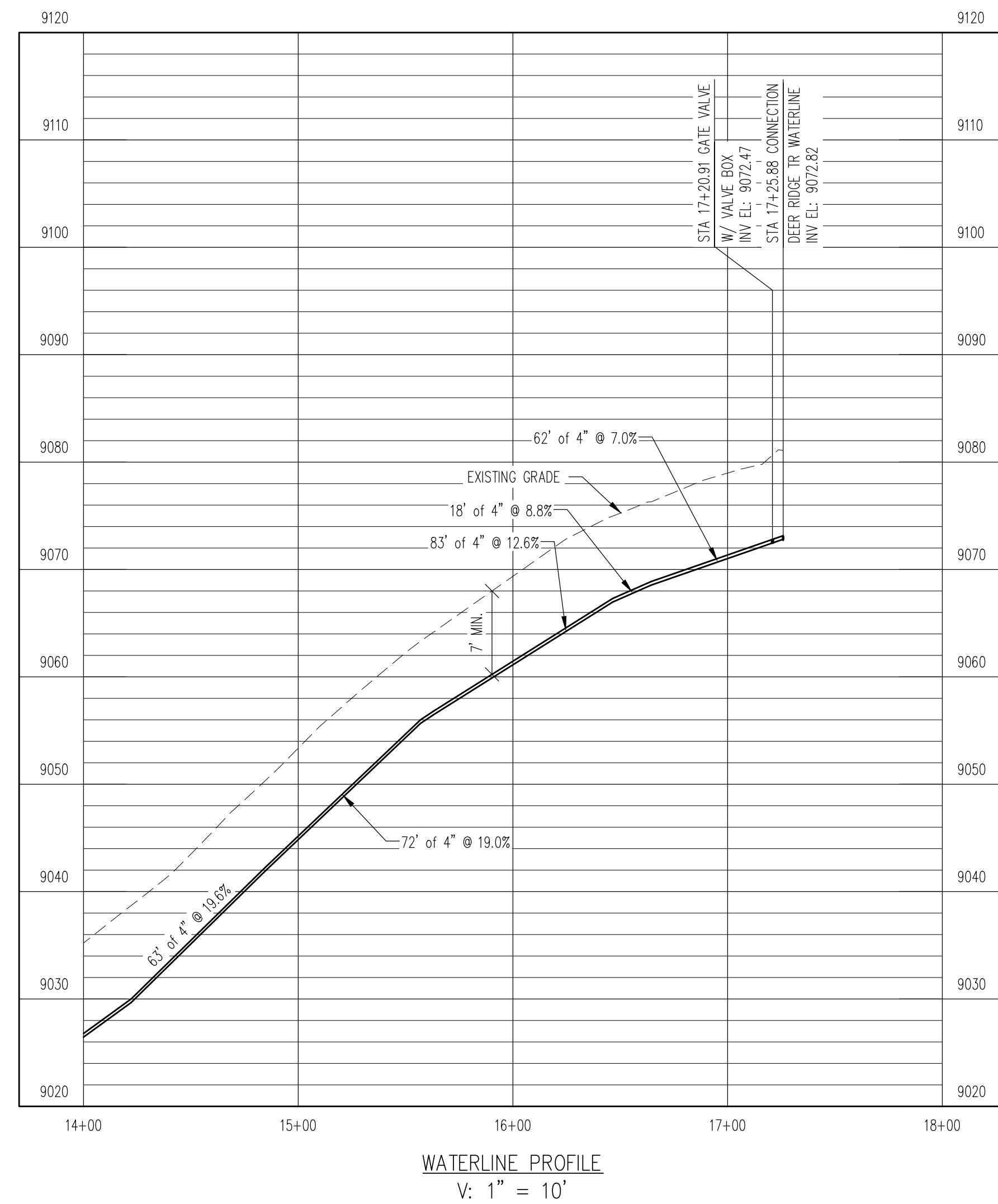
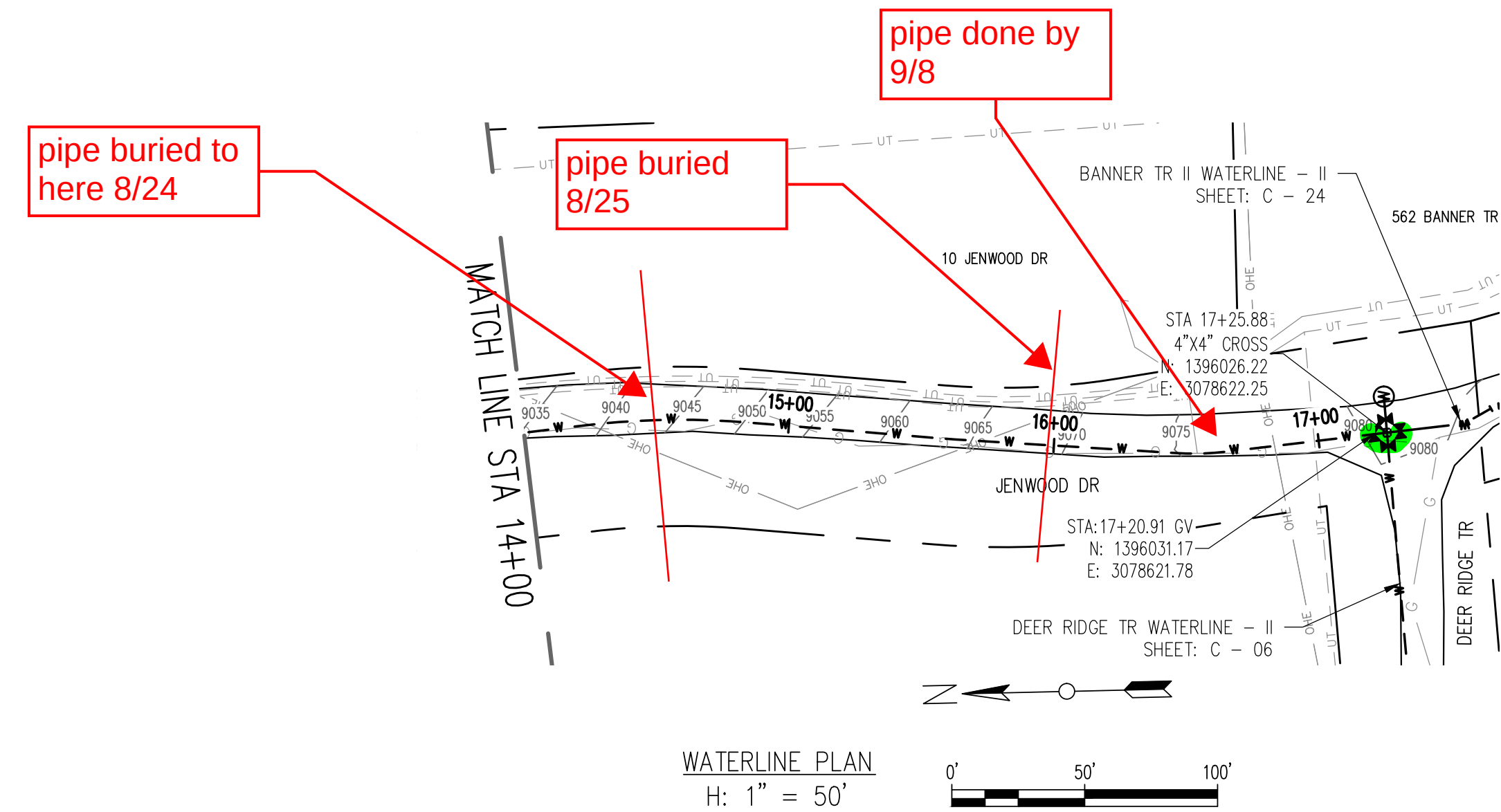
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JENWOOD DR WATER LINE - I
STA 1+00 TO STA 11+00

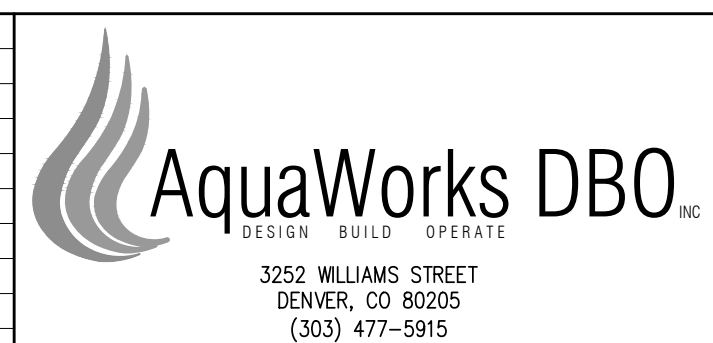
SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 07

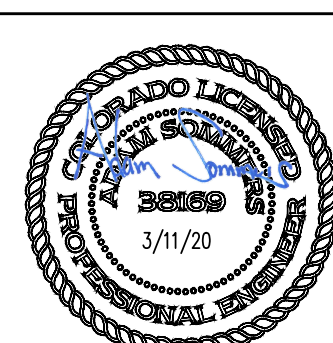
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CONSTRUCTION
5/21/2020



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ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



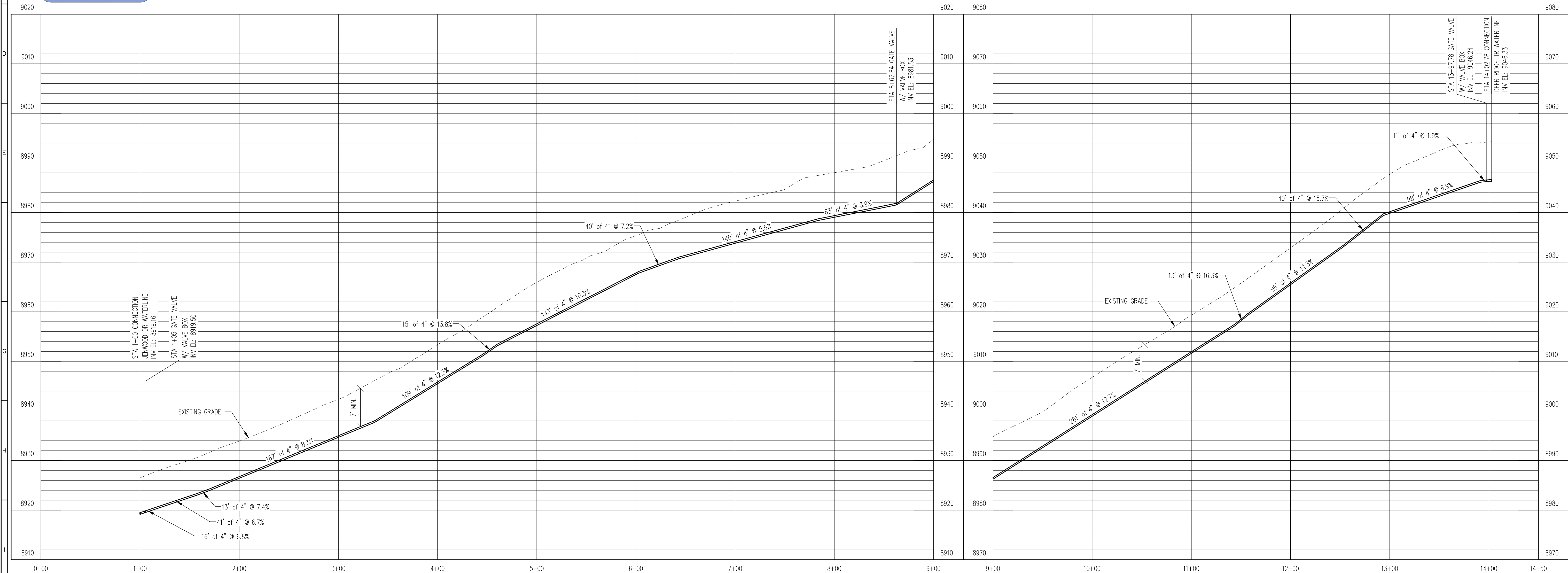
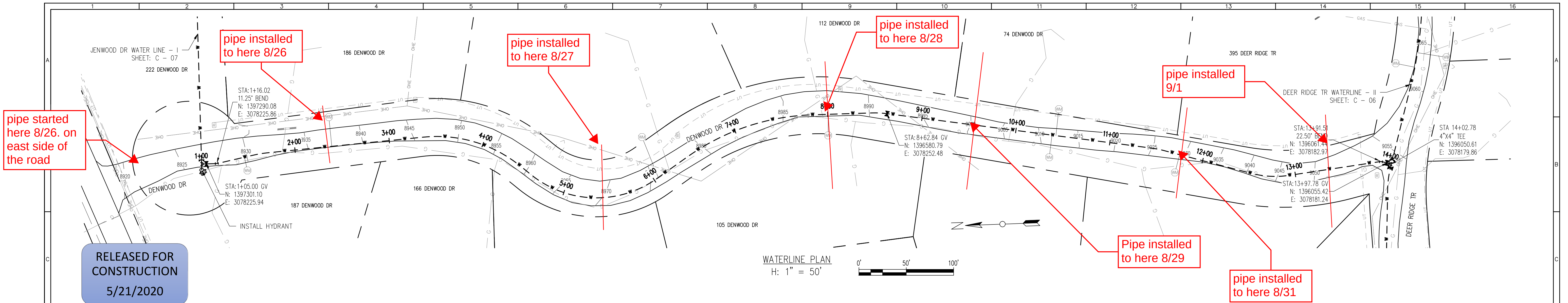
PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSSELLE, P.E.
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0 1 IF THIS BAR DOES NOT READ 1" DRAWING IS NOT LABELED TO SCALE

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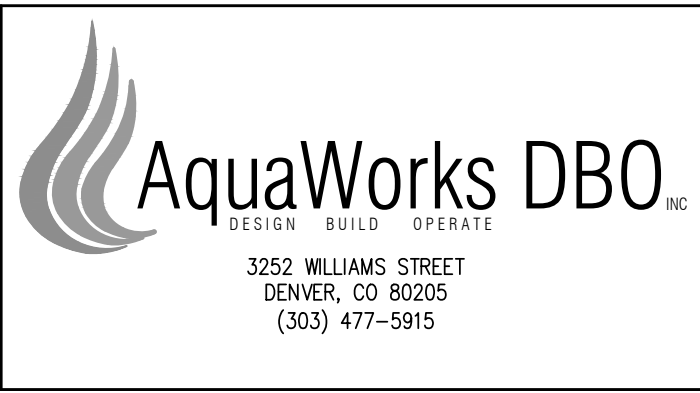
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JENWOOD DR WATER LINE - II
STA 11+00 TO END

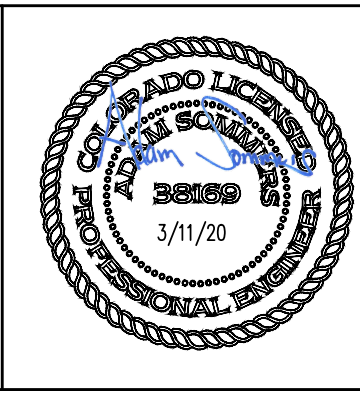
SCALE H: 1" = 50' V: 1" = 10'
SHEET NUMBER: C - 08



REV. No.	DATE	BY	REVISION DESCRIPTION



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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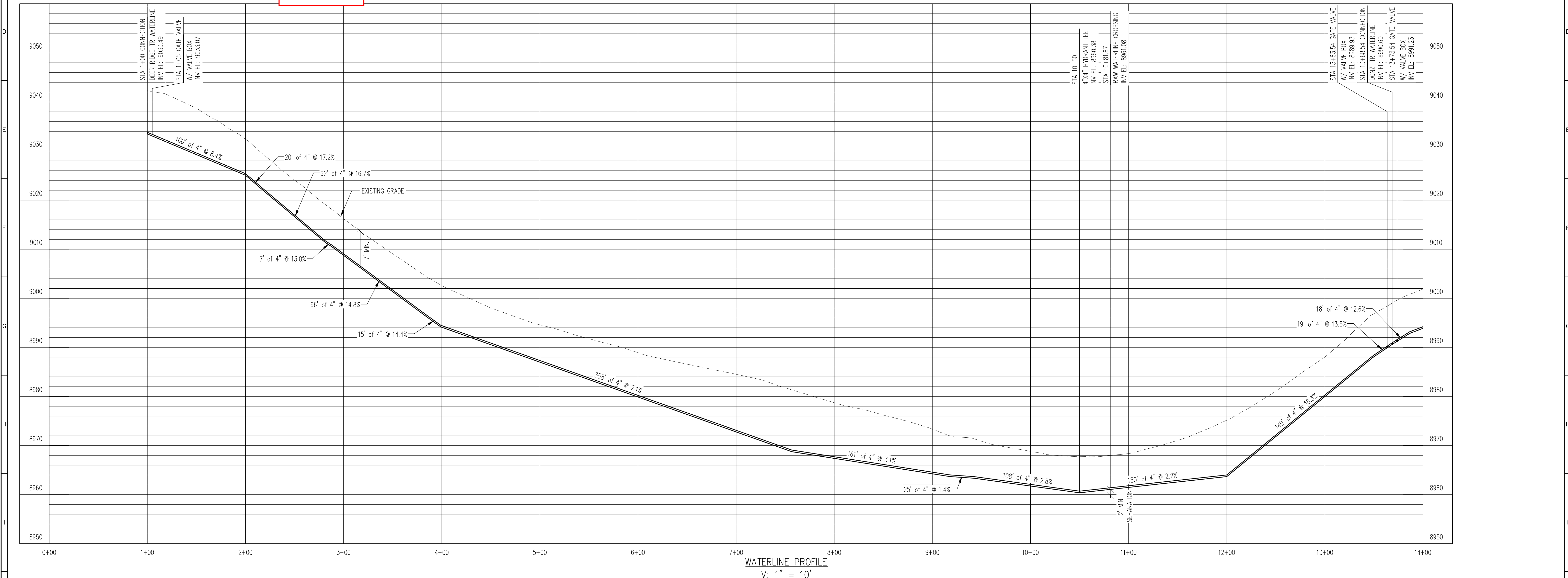
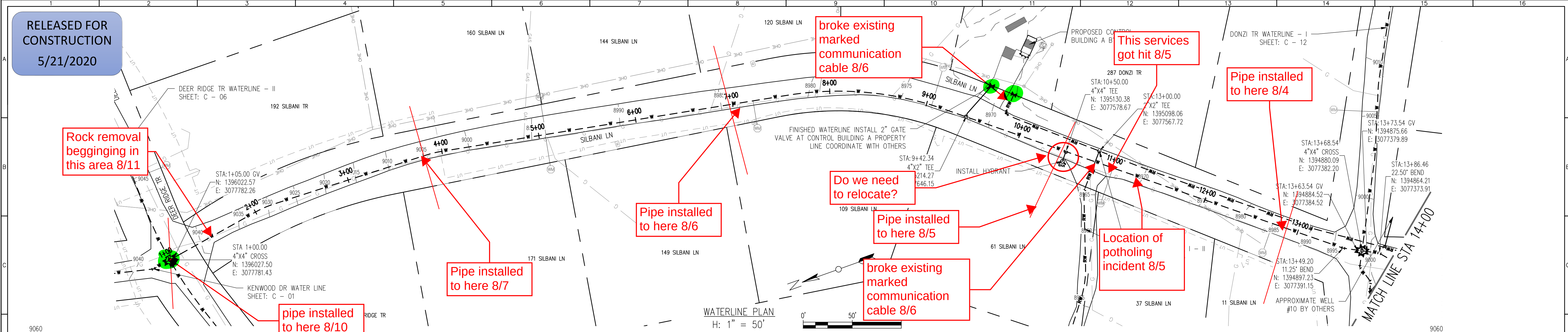
USE OF DOCUMENTS

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DENWOOD WATERLINE
STA 1+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 09



REV. No.	DATE	BY	REVISION DESCRIPTION



3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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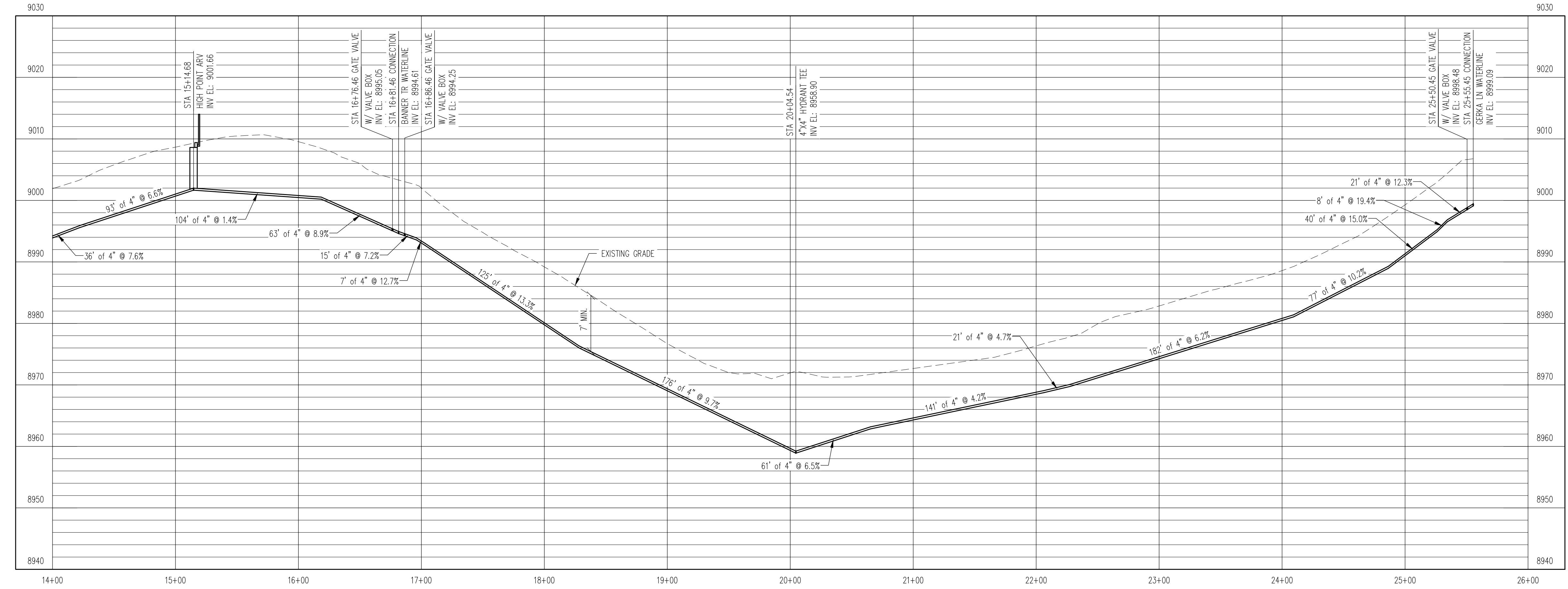
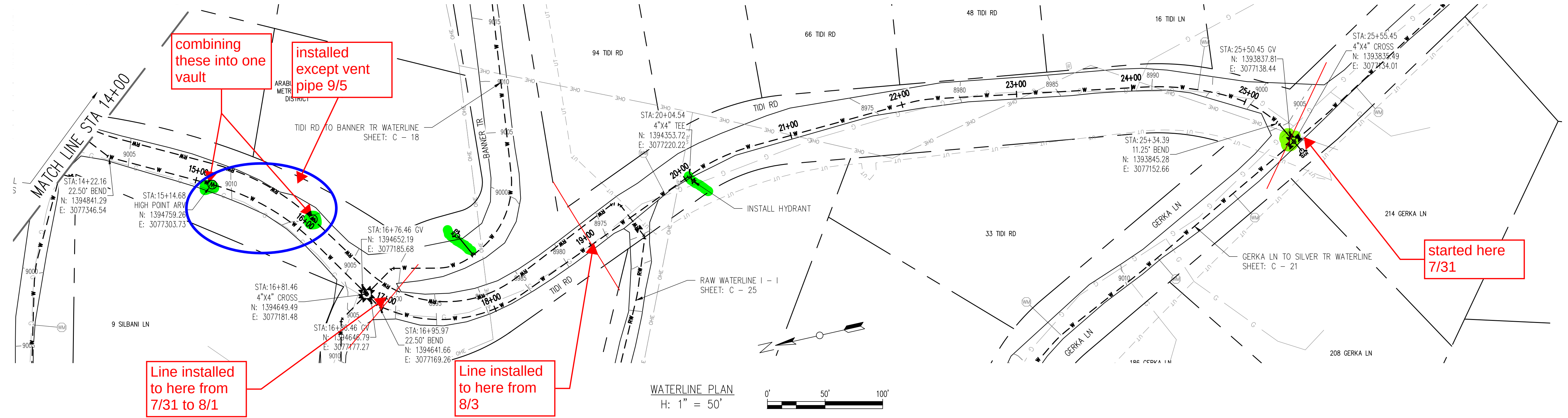
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SILBANI WATERLINE - I
STA 1+00 TO STA 14+00

SCALE
H: 1" = 50'
V: 1" = 10'

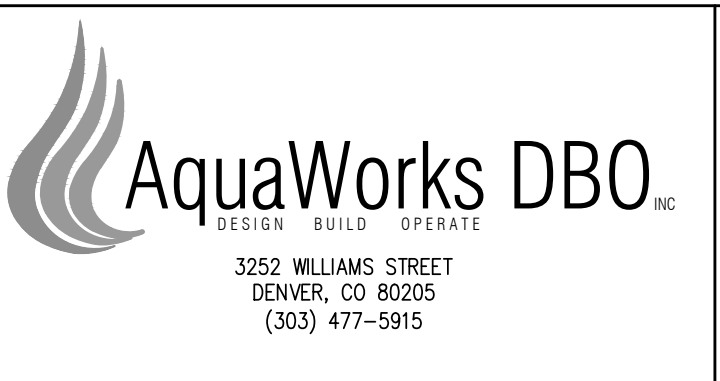
SHEET NUMBER:
C - 10

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CONSTRUCTION
5/21/2020



WATERLINE PROFILE
H: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT

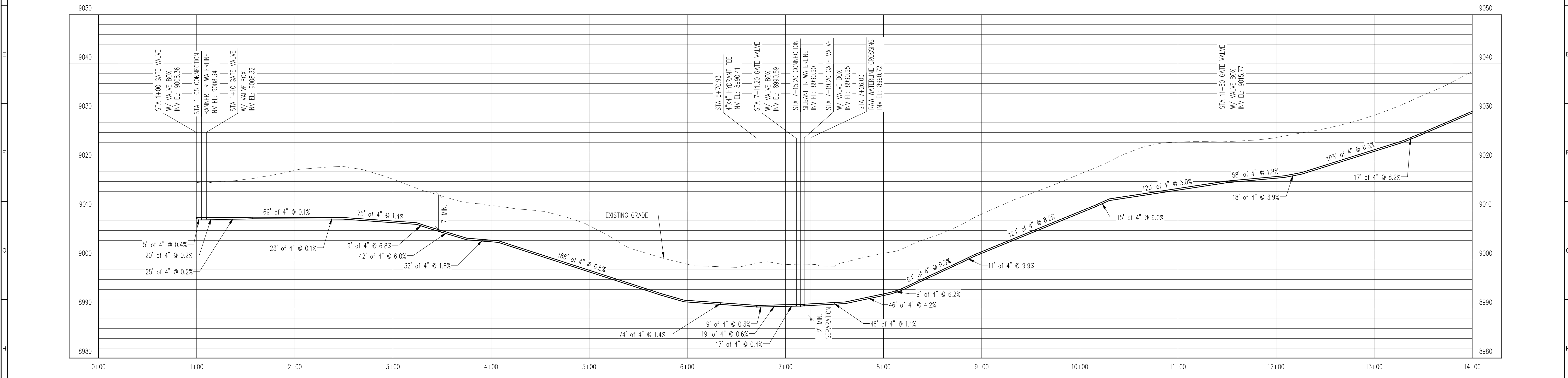
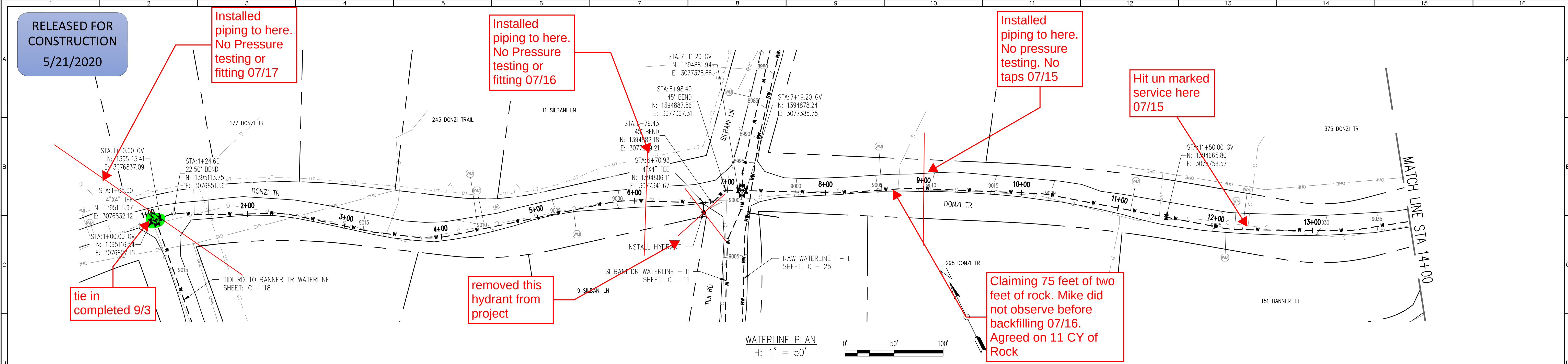


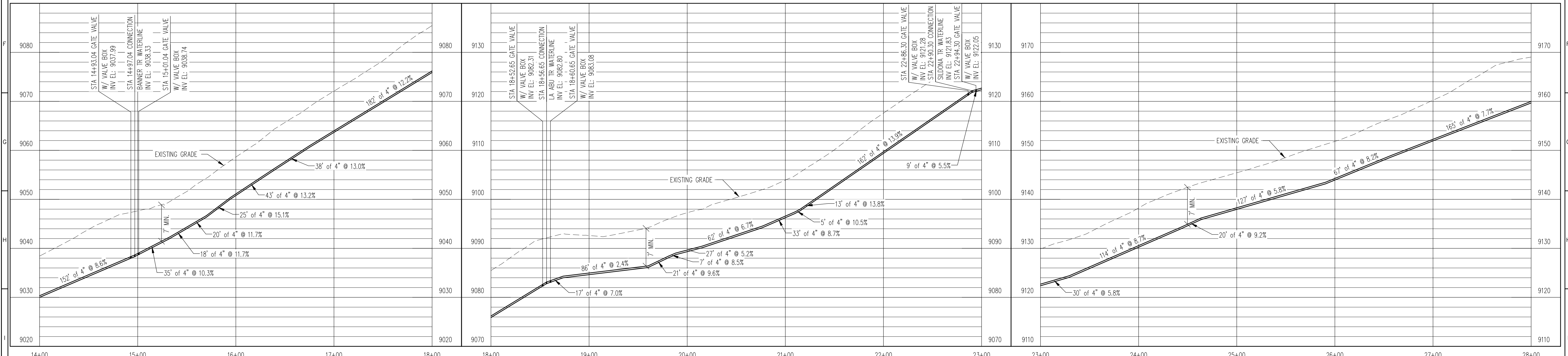
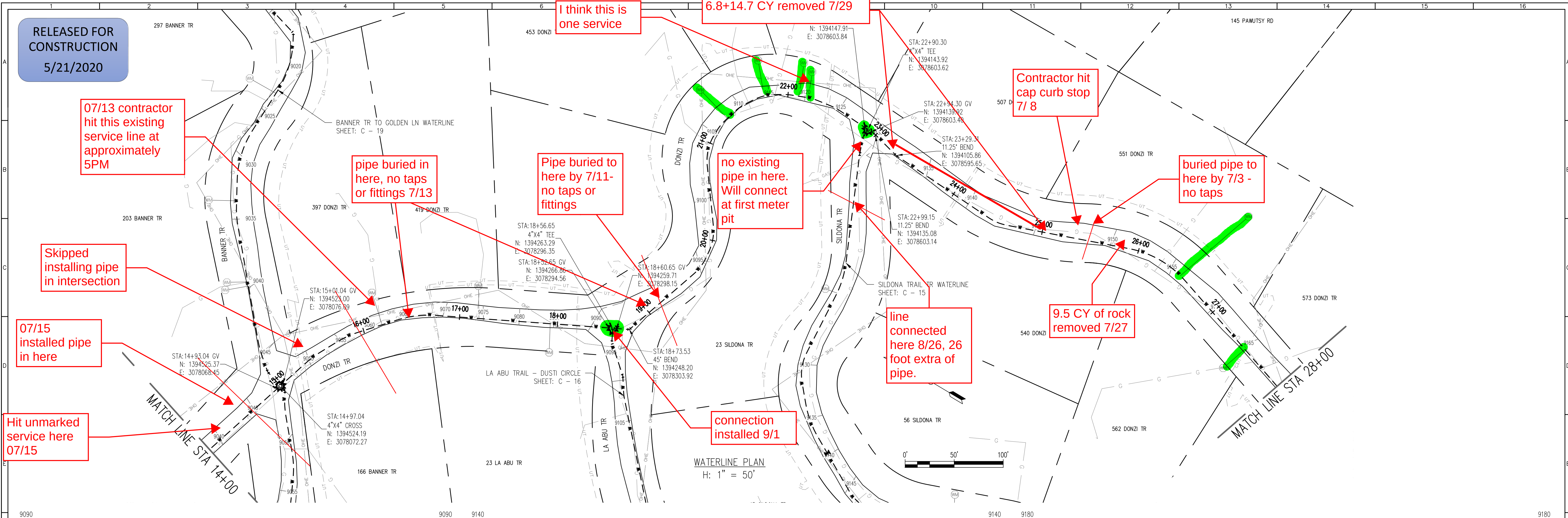
PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1299
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSSELLE, P.E.
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SILBANI DR WATERLINE - II
STA 14+00 TO STA END

SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 11





REV. No.	DATE	BY	REVISION DESCRIPTION



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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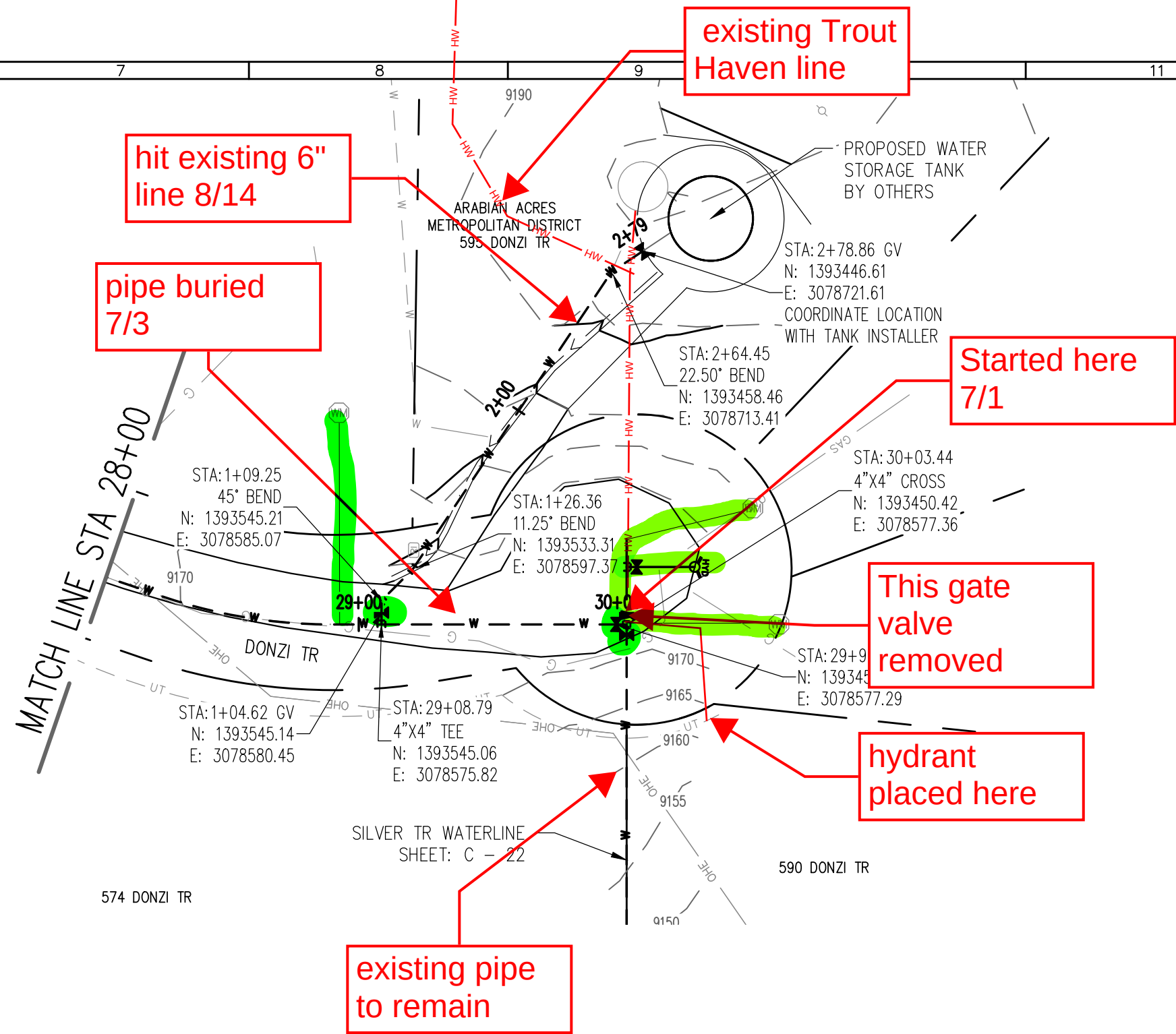
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DONZI TR WATERLINE - II
STA 14+00 TO STA 29+00

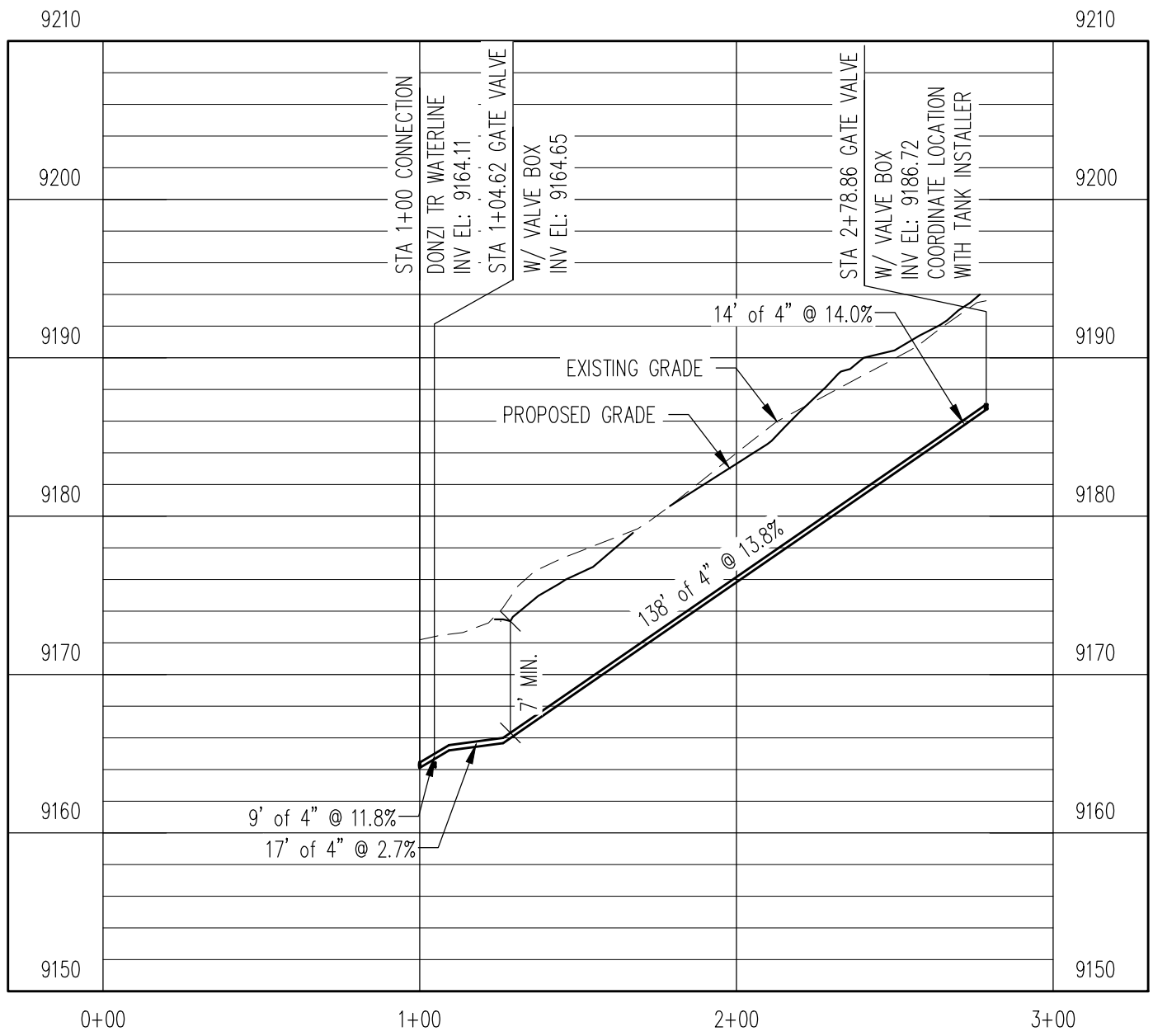
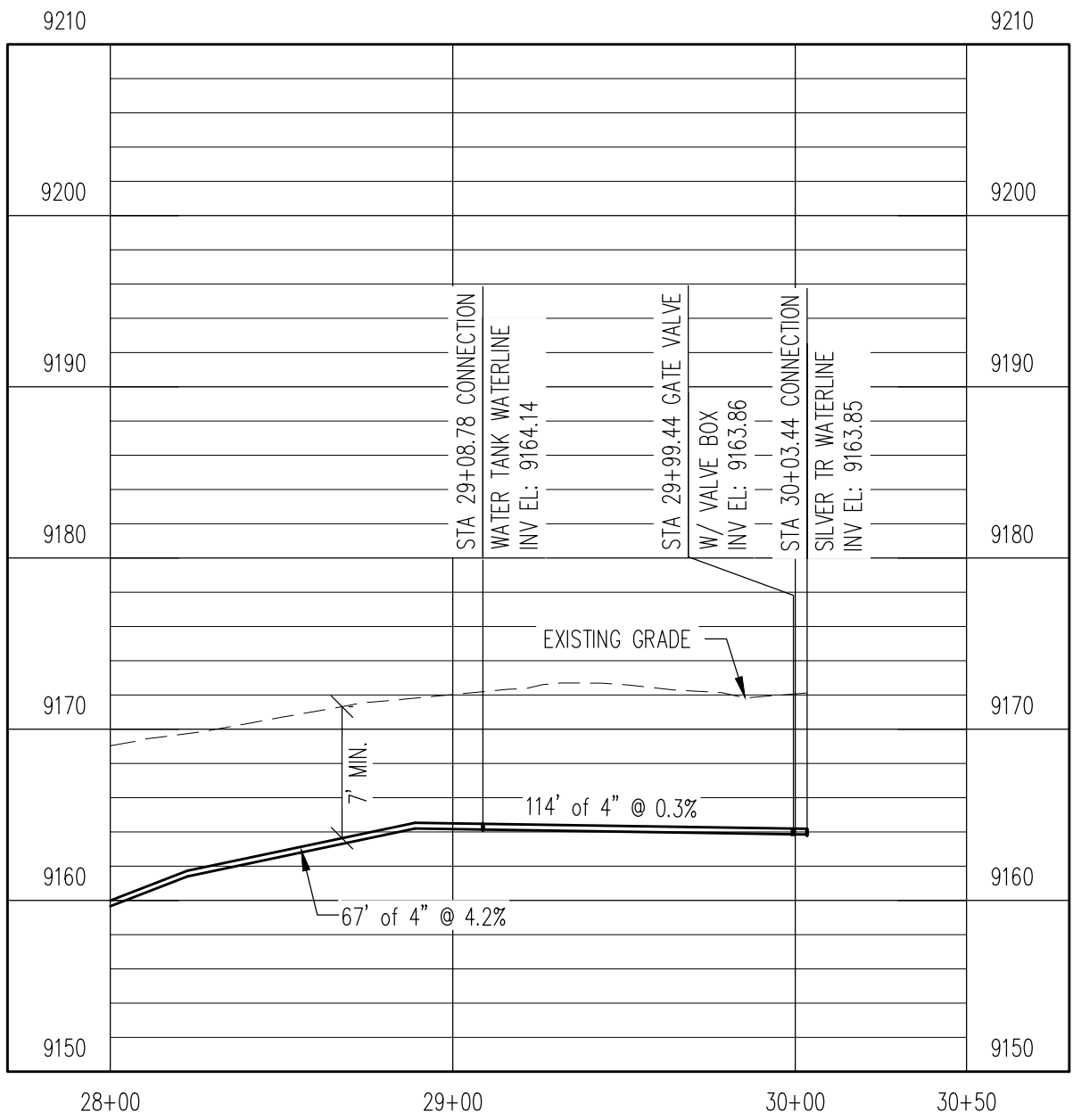
SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 13

RELEASED FOR
CONSTRUCTION
5/21/2020



WATERLINE PLAN
H: 1" = 50'



WATERLINE PROFILE
V: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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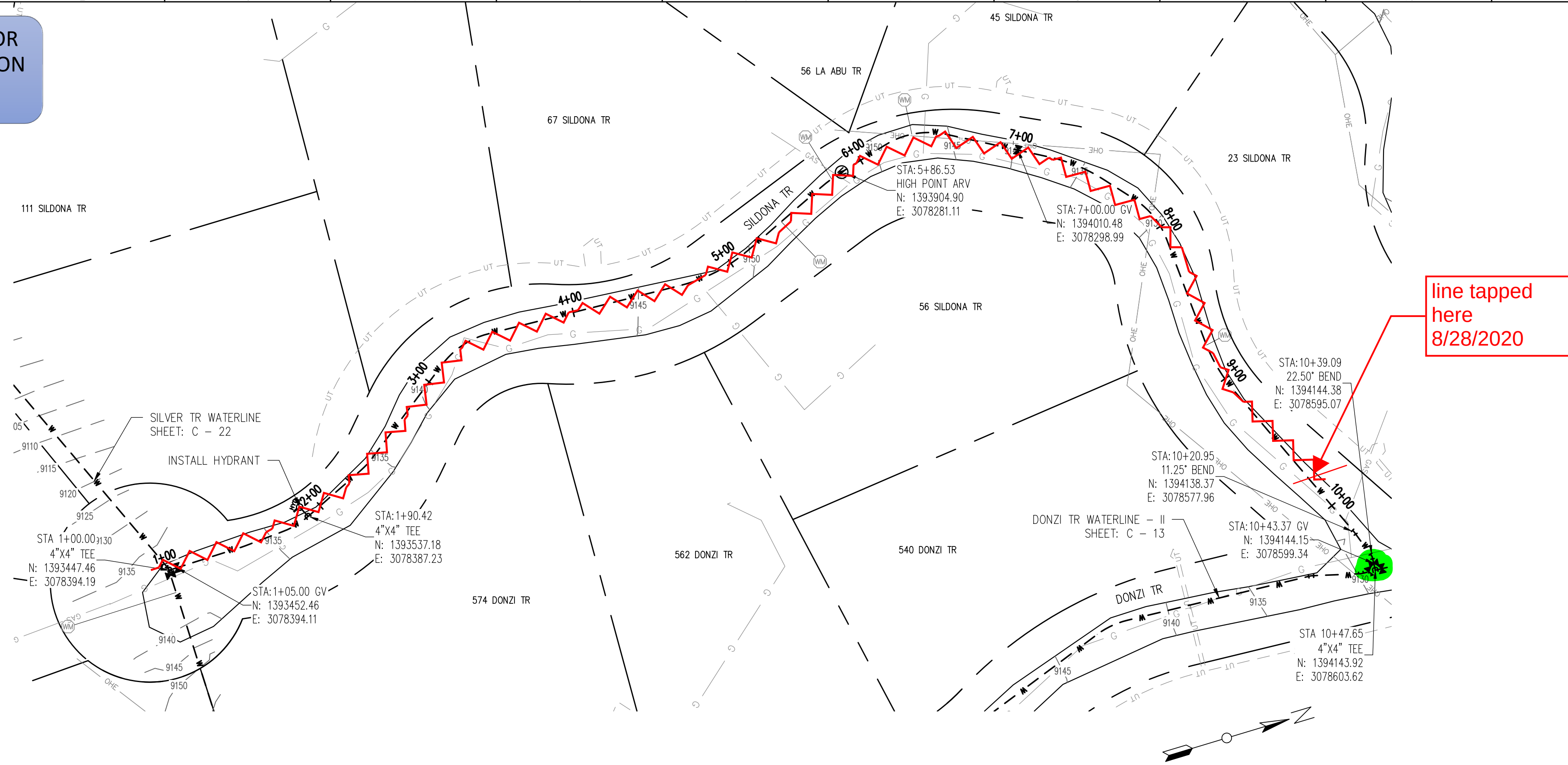
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DONZI TR WATERLINE – III
STA 29+00 TO END
TANK DRAIN AND FILL WATERLINE
STA 1+00 TO END

SCALE H: 1" = 50' V: 1" = 10'
SHEET NUMBER: C – 14

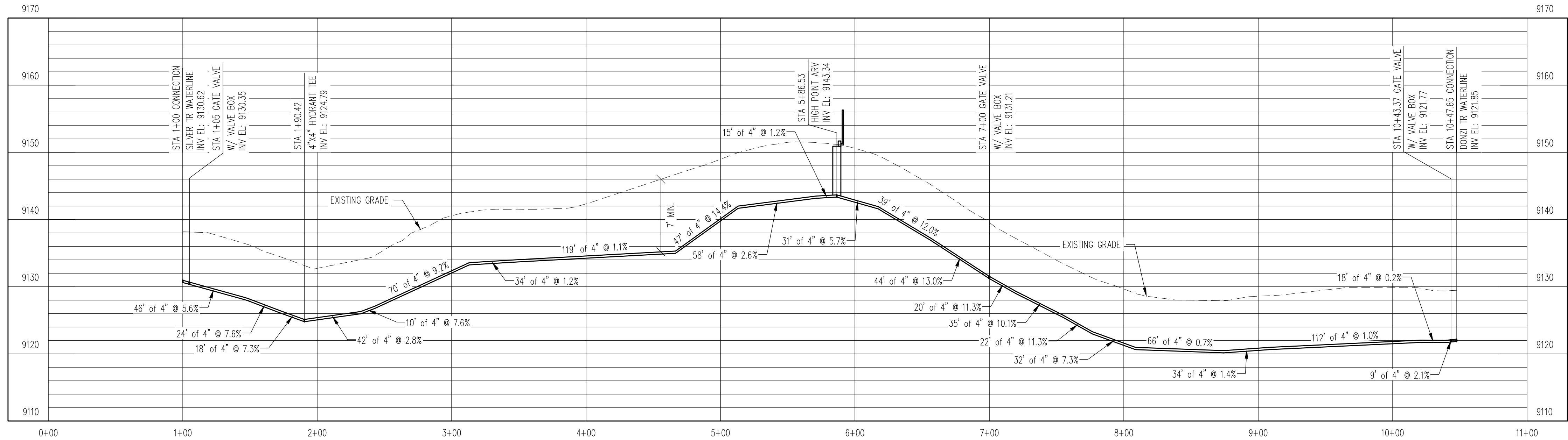
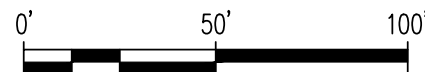
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5/21/2020



WATERLINE PLAN

H: 1" = 50'



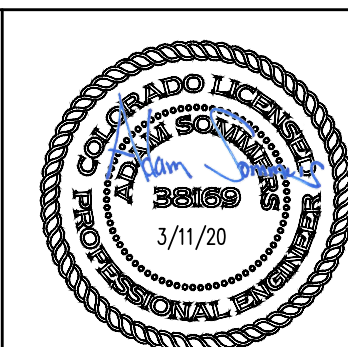
WATERLINE PROFILE

V: 1" = 10'

REV. No.	DATE	BY	REVISION DESCRIPTION



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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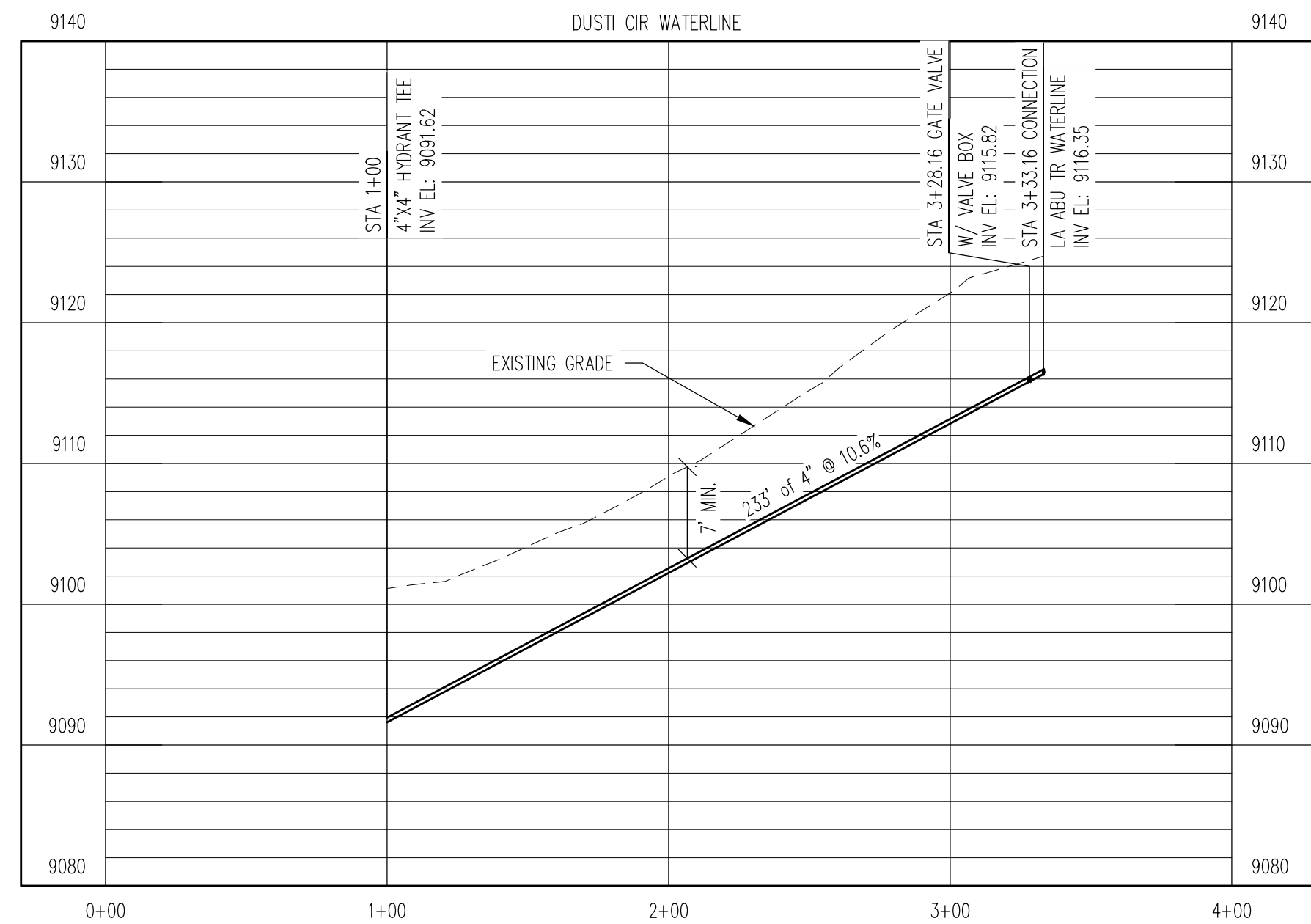
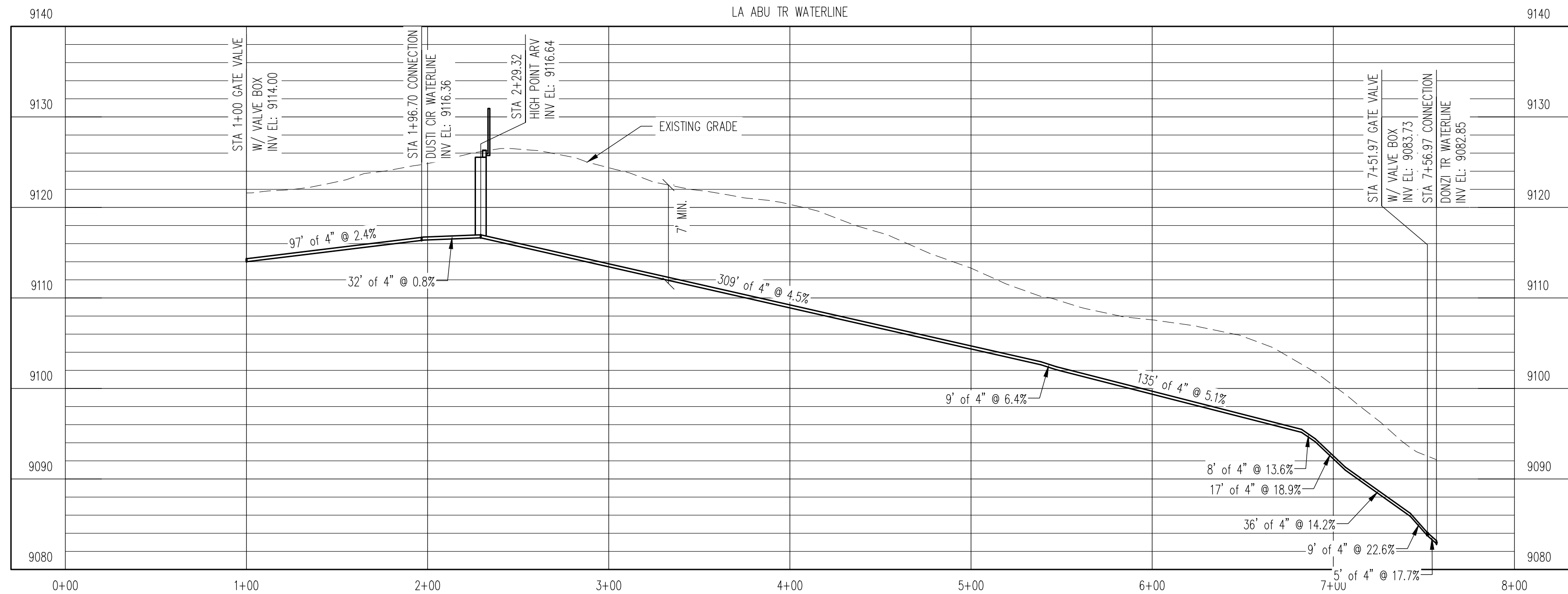
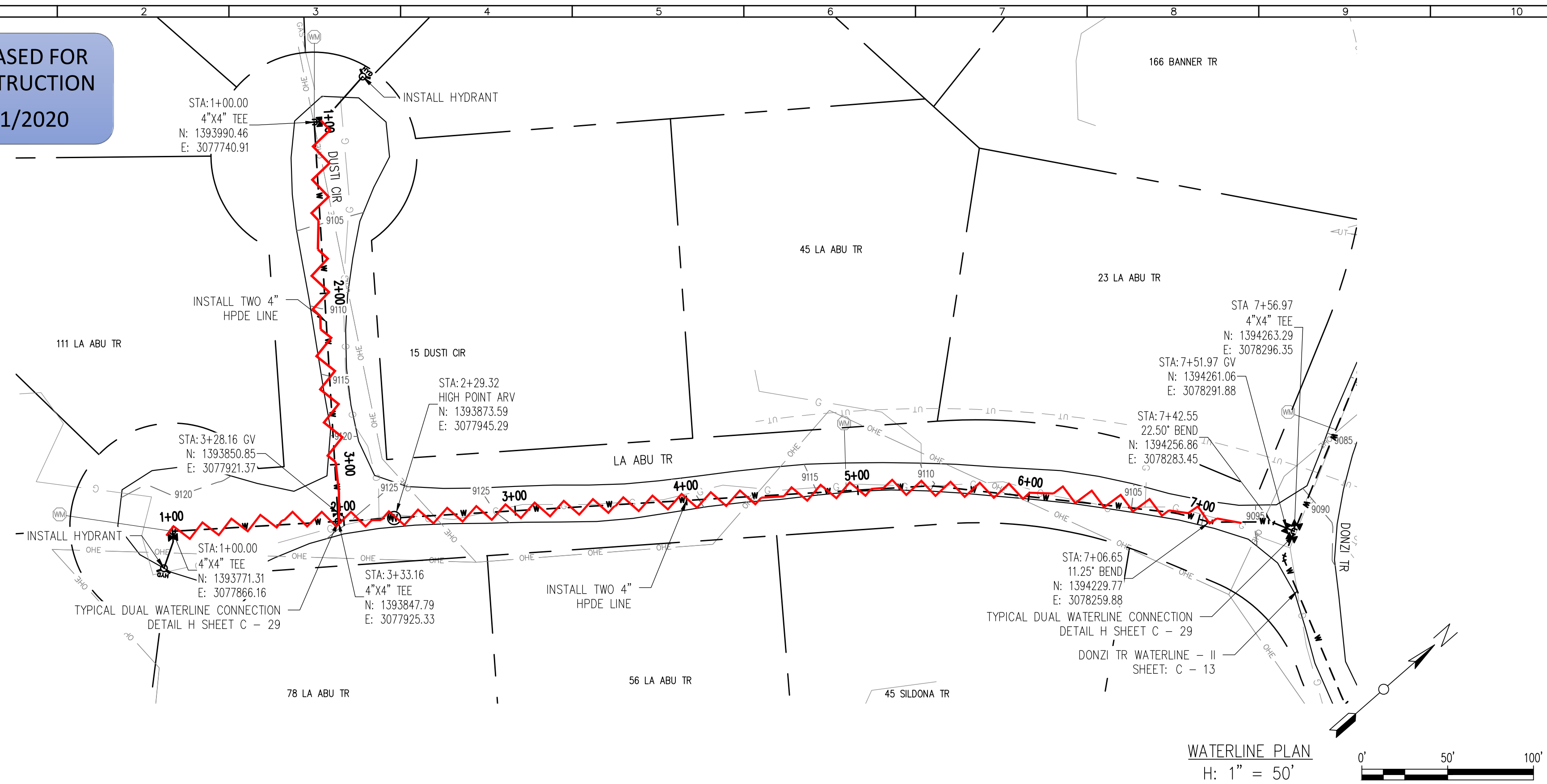
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SILDONA TR WATERLINE
STA 1+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 15

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WATERLINE PROFILE
V: 1" = 10'

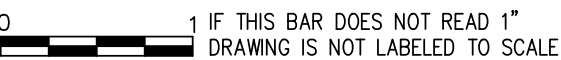
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ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



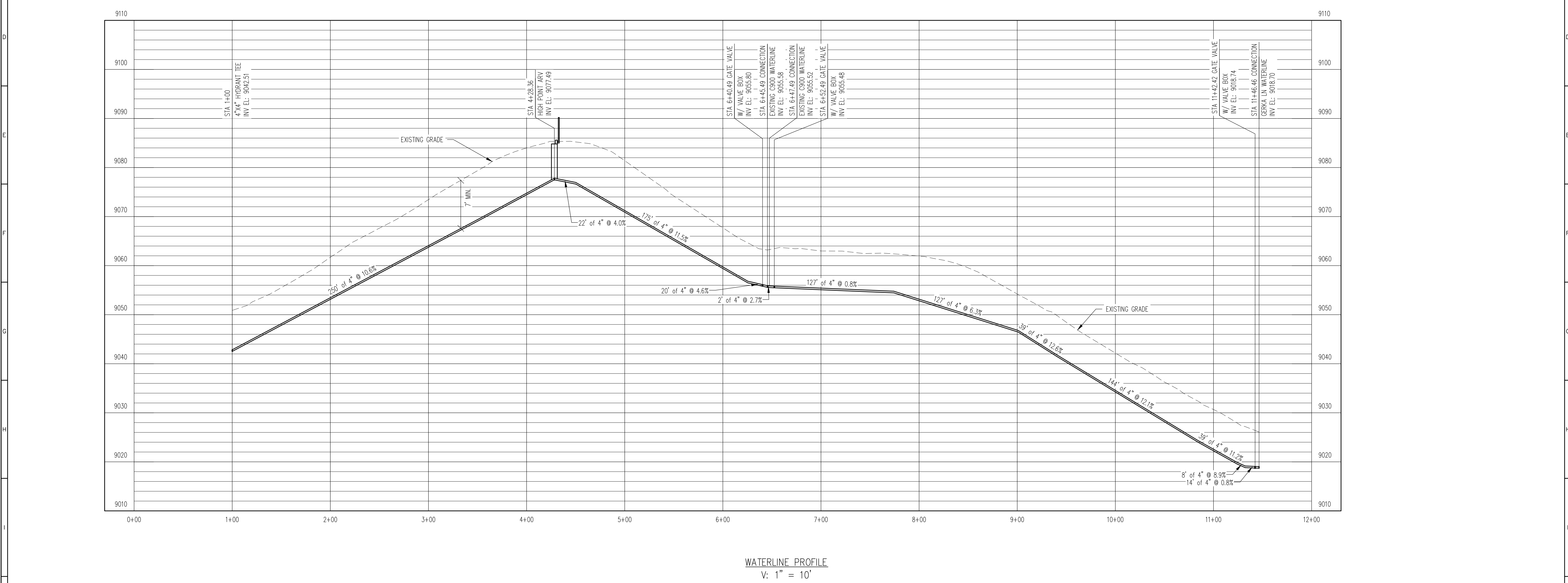
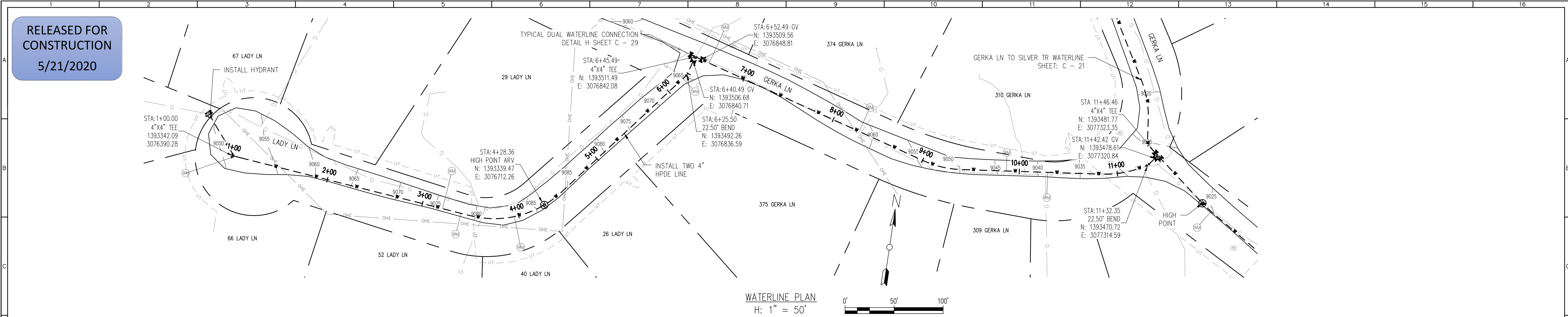
PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSSELLE, P.E.
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LA ABU TR WATERLINE
STA 1+00 TO END
DUSTI CIR WATERLINE
STA 1+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 16



REV. No.	DATE	BY	REVISION DESCRIPTION

DESIGN BUILD OPERATE

3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT

PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
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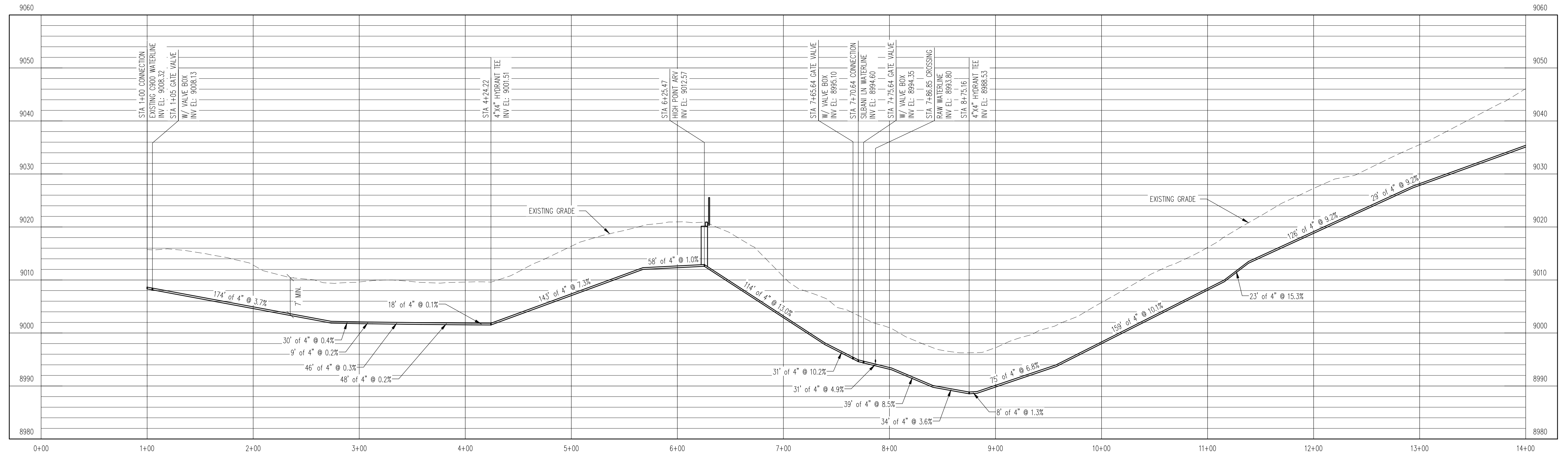
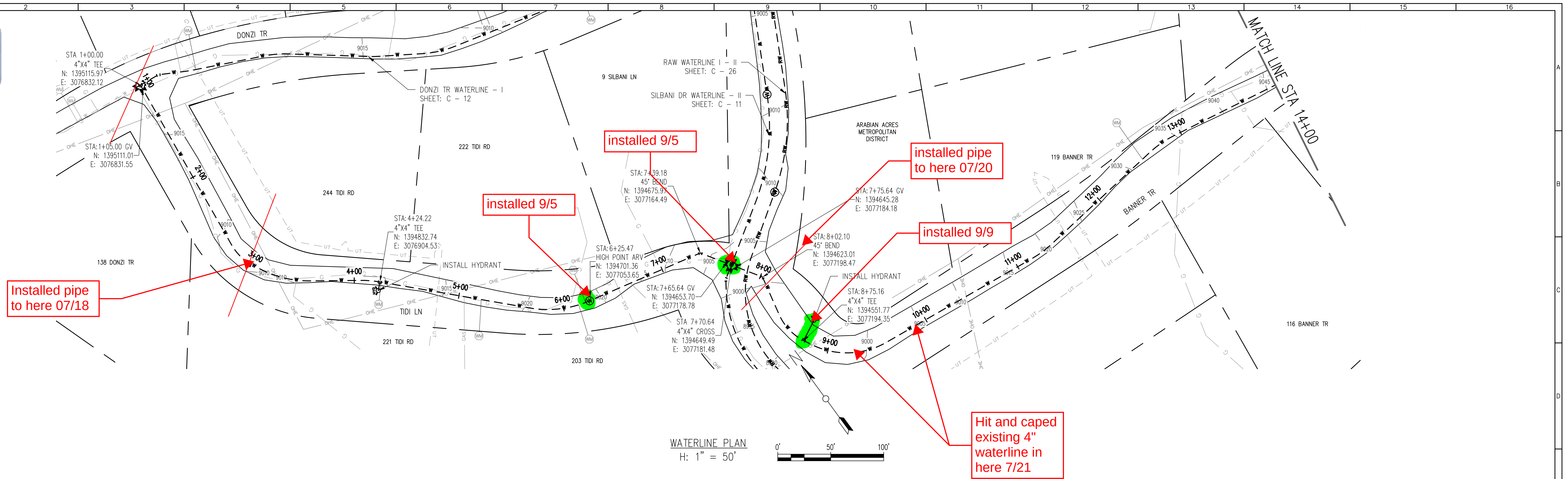
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LADY LN TO GERKA LN WATERLINE
STA 1+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'

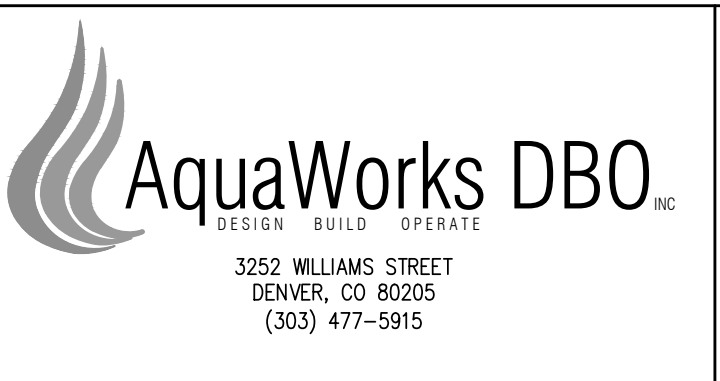
SHEET NUMBER:
C - 17

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5/21/2020

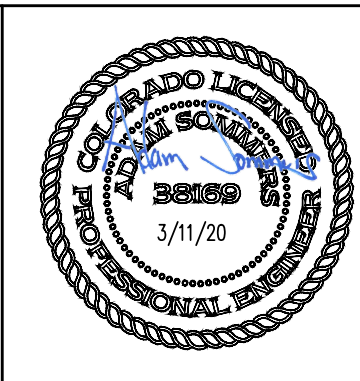


WATERLINE PROFILE
H: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT

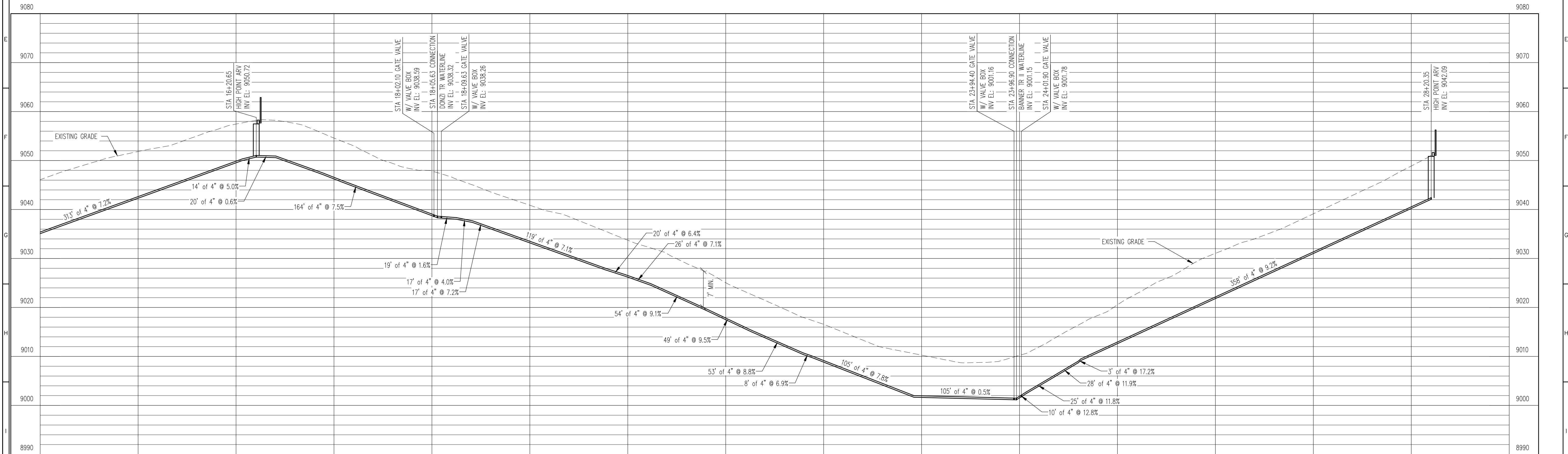
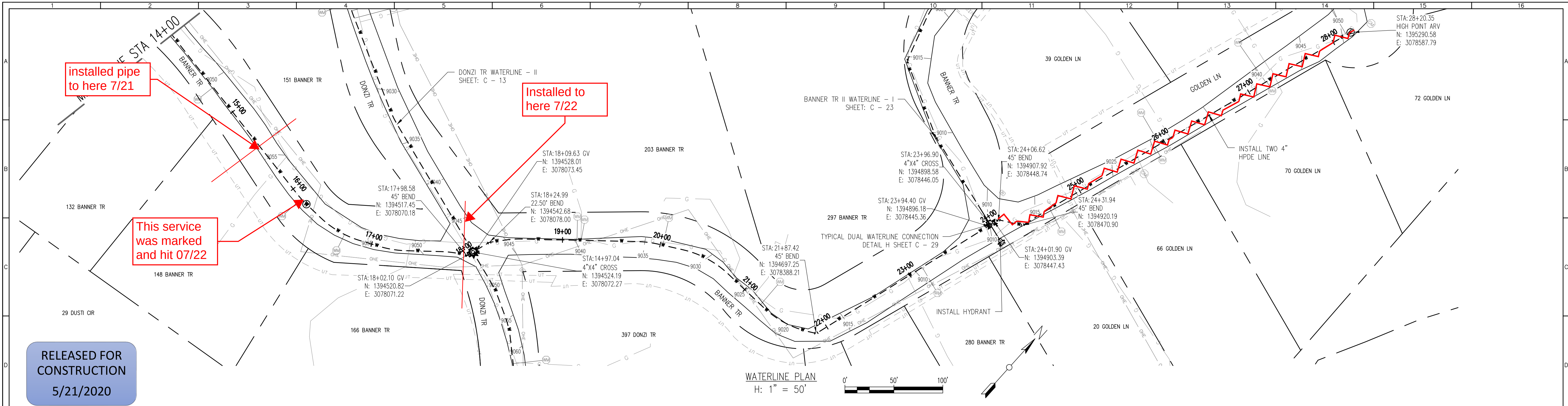


PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSSELE, P.E.
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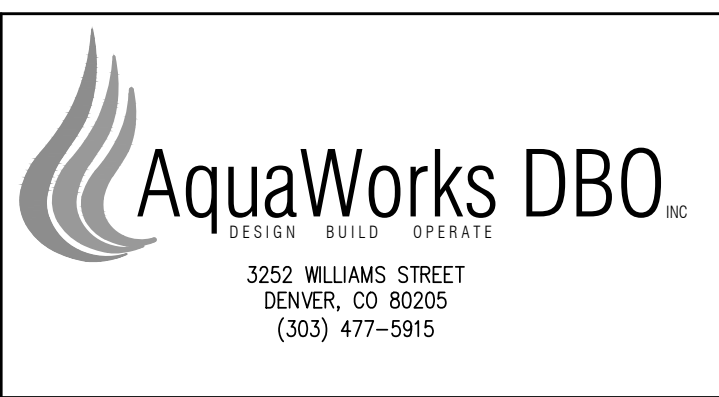
USE OF DOCUMENTS
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TIDI RD TO BANNER TR WATERLINE
STA 1+00 TO STA 14+00

SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 18



REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1299
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
CHECKED BY: ADAM SOMMERS, P.E.
FILE PRINTED ON: 3/11/2020 10:23:56 AM
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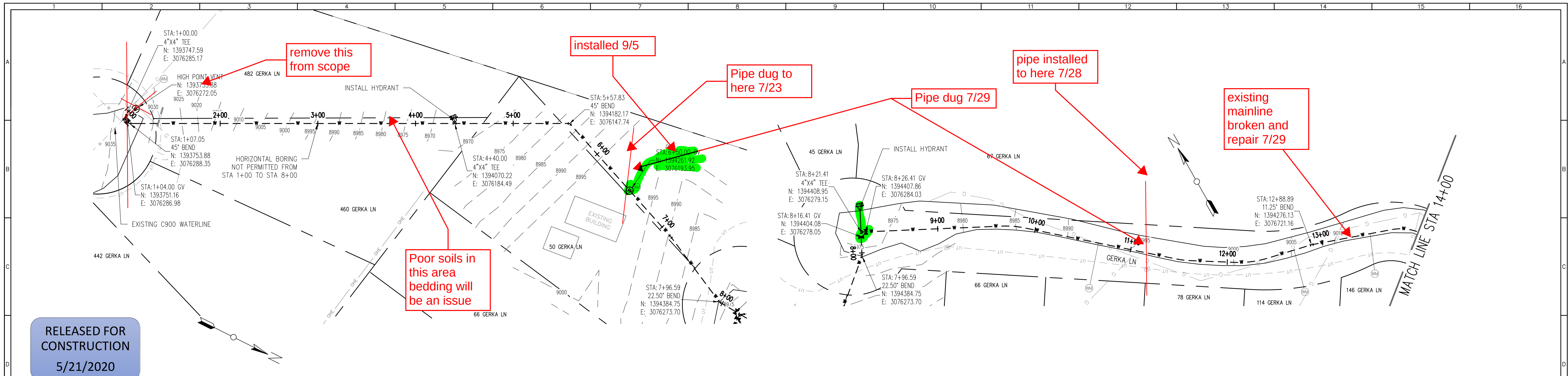
USE OF DOCUMENTS

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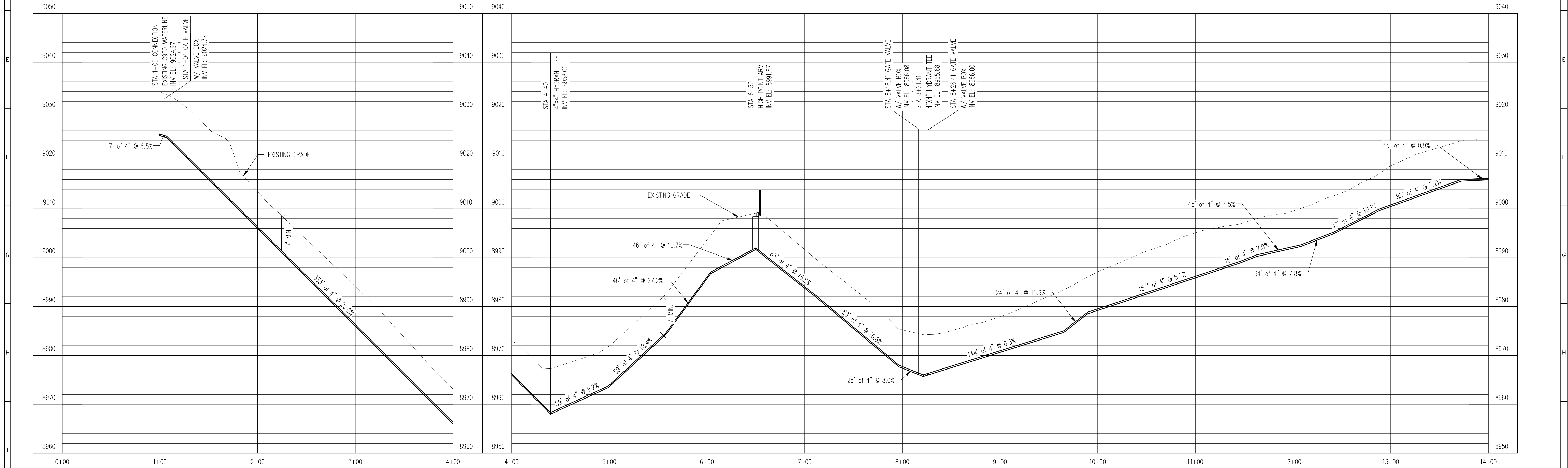
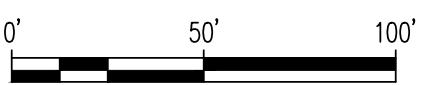
BANNER LN TR TO
GOLDEN LN WATERLINE
STA 14+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C - 19

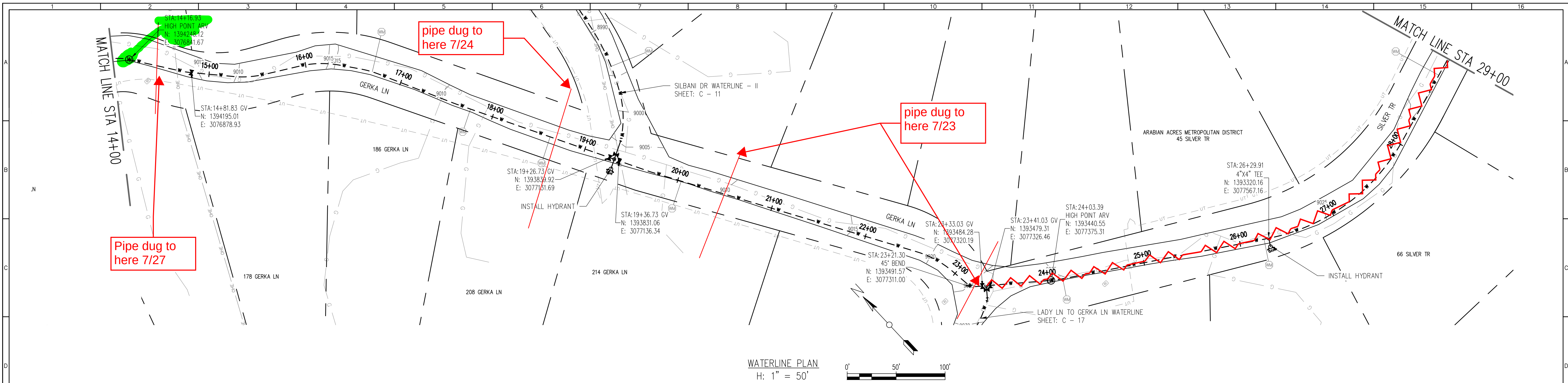


WATERLINE PLAN
H: 1" = 50'

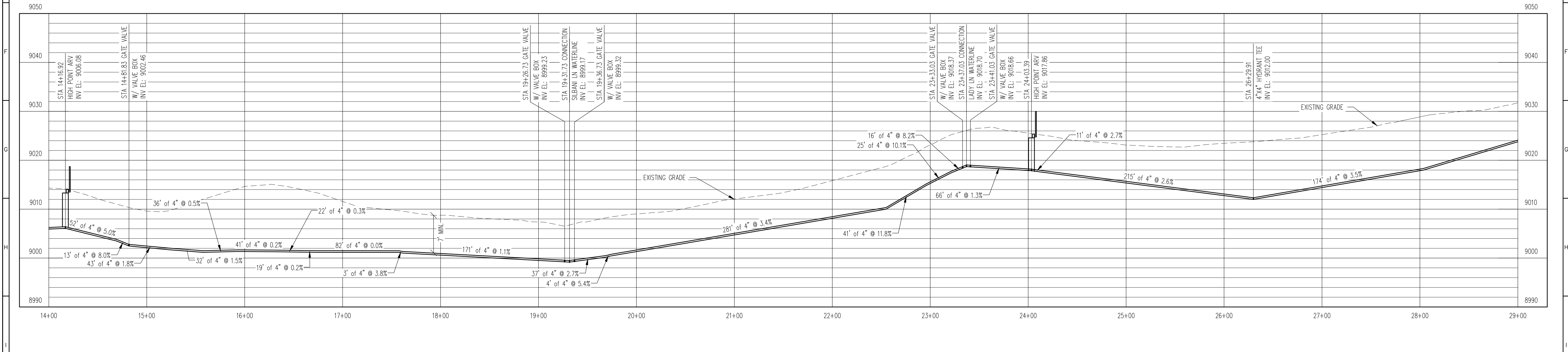


WATERLINE PROFILE
V: 1" = 10'

REV. No.	DATE:	BY:	REVISION DESCRIPTION:	 AquaWorks DBO^{INC} DESIGN BUILD OPERATE 3252 WILLIAMS STREET DENVER, CO 80205 (303) 477-5915				PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN PROJECT NUMBER: 1289 CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO DESIGNED BY: MIKE GROSELLE, P.E. CHECKED BY: ADAM SOMMERS, P.E. FILE PRINTED ON: 3/11/2020 10:24:21 AM COPYRIGHT: AQUAWORKS DBO, INC. DRAWING SIZE: 22" X 34"	USE OF DOCUMENTS THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF AQUAWORKS DBO, INC.		GERKA LN WATERLINE STA 1+00 TO STA 14+00	SCALE H: 1" = 50' V: 1" = 10'
						0 1 IF THIS BAR DOES NOT READ 1" DRAWING IS NOT LABELED TO SCALE				SHEET NUMBER: C - 20		

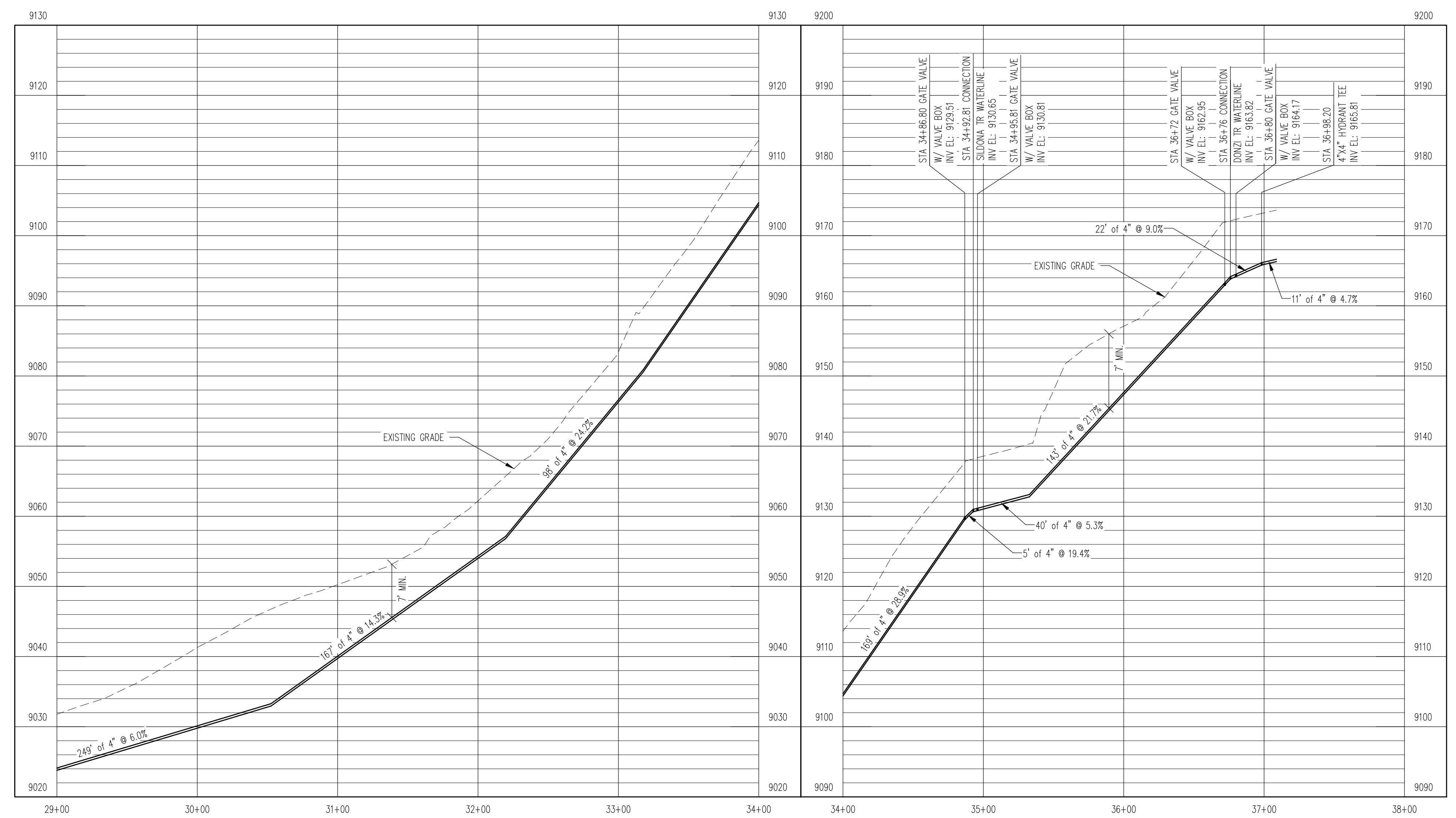
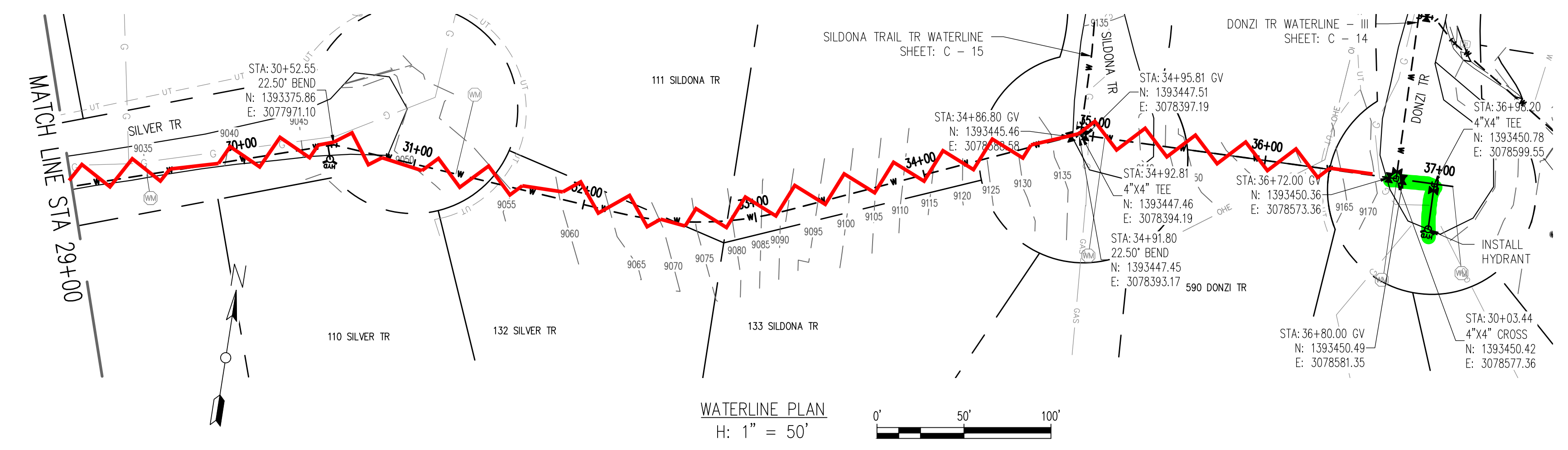


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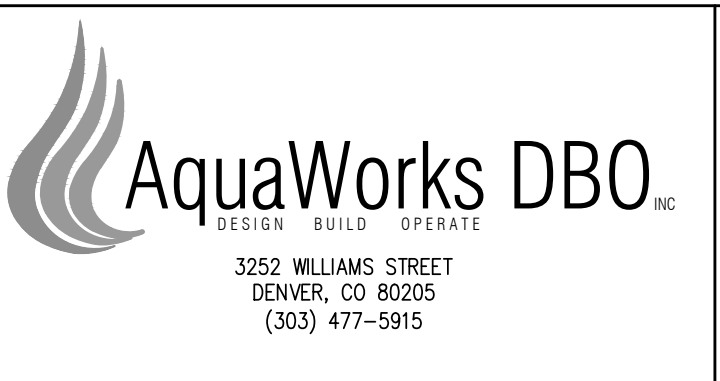
REV. No:	DATE:	BY:	REVISION DESCRIPTION:	 3252 WILLIAMS STREET DENVER, CO 80205 (303) 477-5915	ARABIAN ACRES METROPOLITAN DISTRICT DISTRIBUTION SYSTEM IMPROVEMENT PROJECT		PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN	USE OF DOCUMENTS THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF AQUAWORKS DBO, INC.	GERKA LN TO SILVER TR WATERLINE STA 14+00 TO STA 29+00	SCALE H: 1" = 50' V: 1" = 10' SHEET NUMBER: C - 21
			PROJECT NUMBER: 1289							
			CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT							
			LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO							
			DESIGNED BY: MIKE GROSSELLE, P.E.							
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WATERLINE PROFILE
V: 1" = 10'

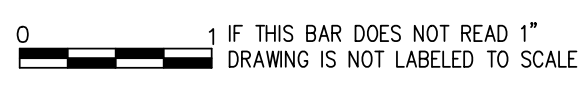
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ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
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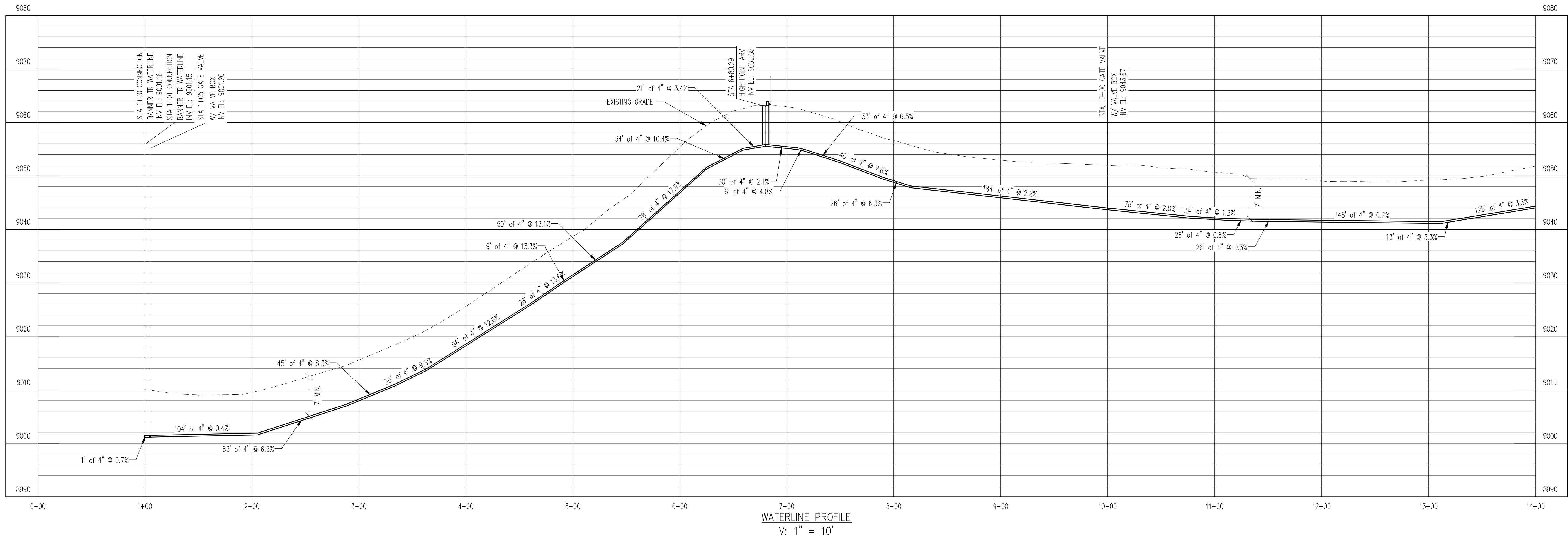
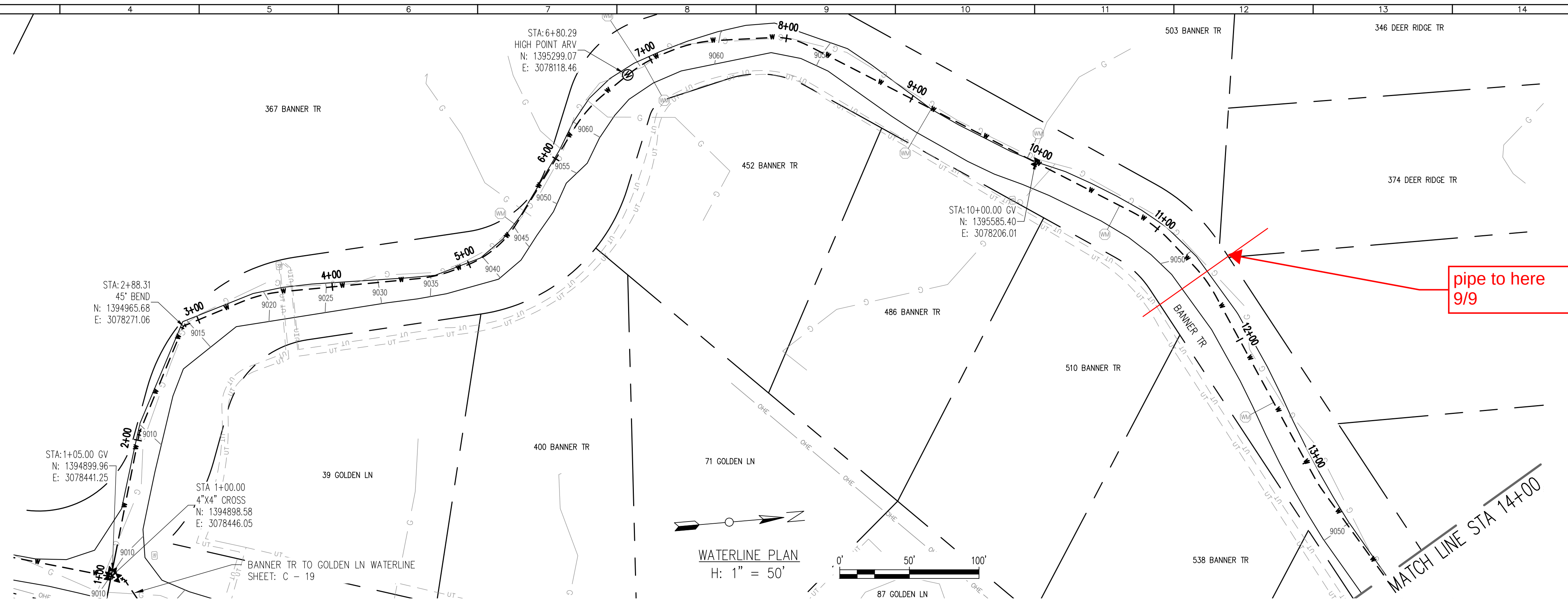


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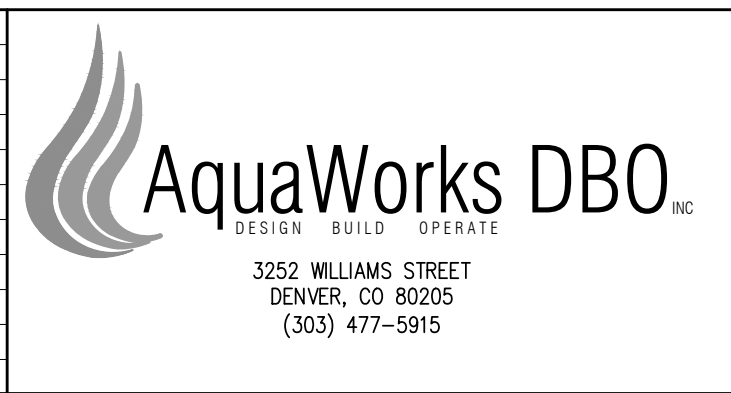
SILVER TR WATERLINE
STA 29+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 22

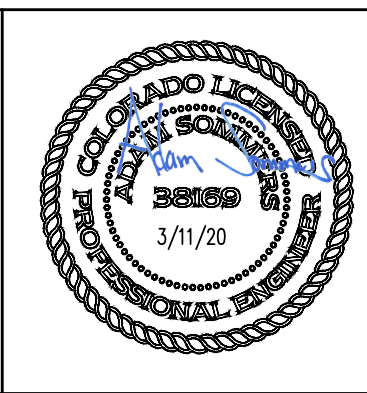
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ARABIAN ACRES
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DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



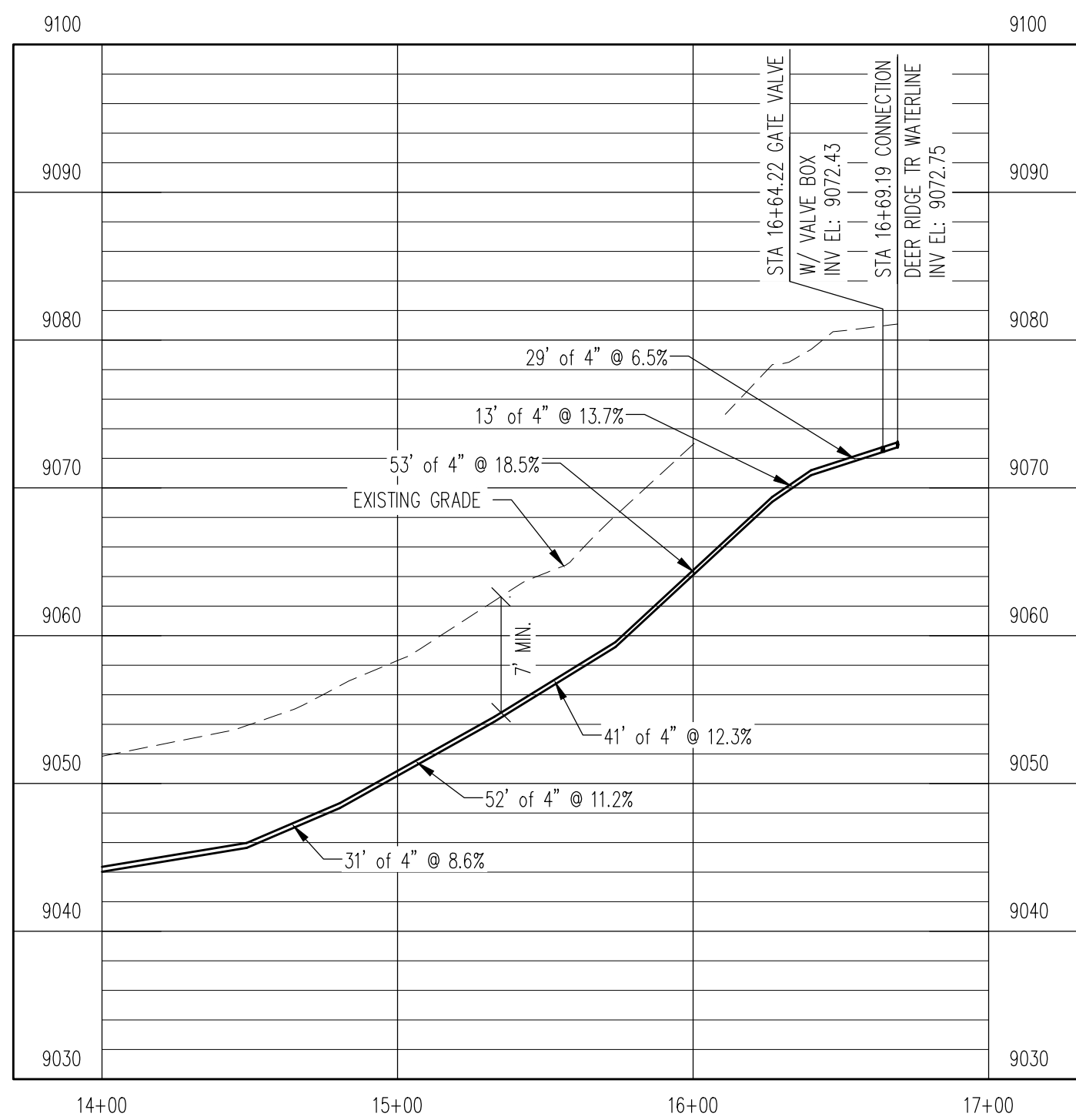
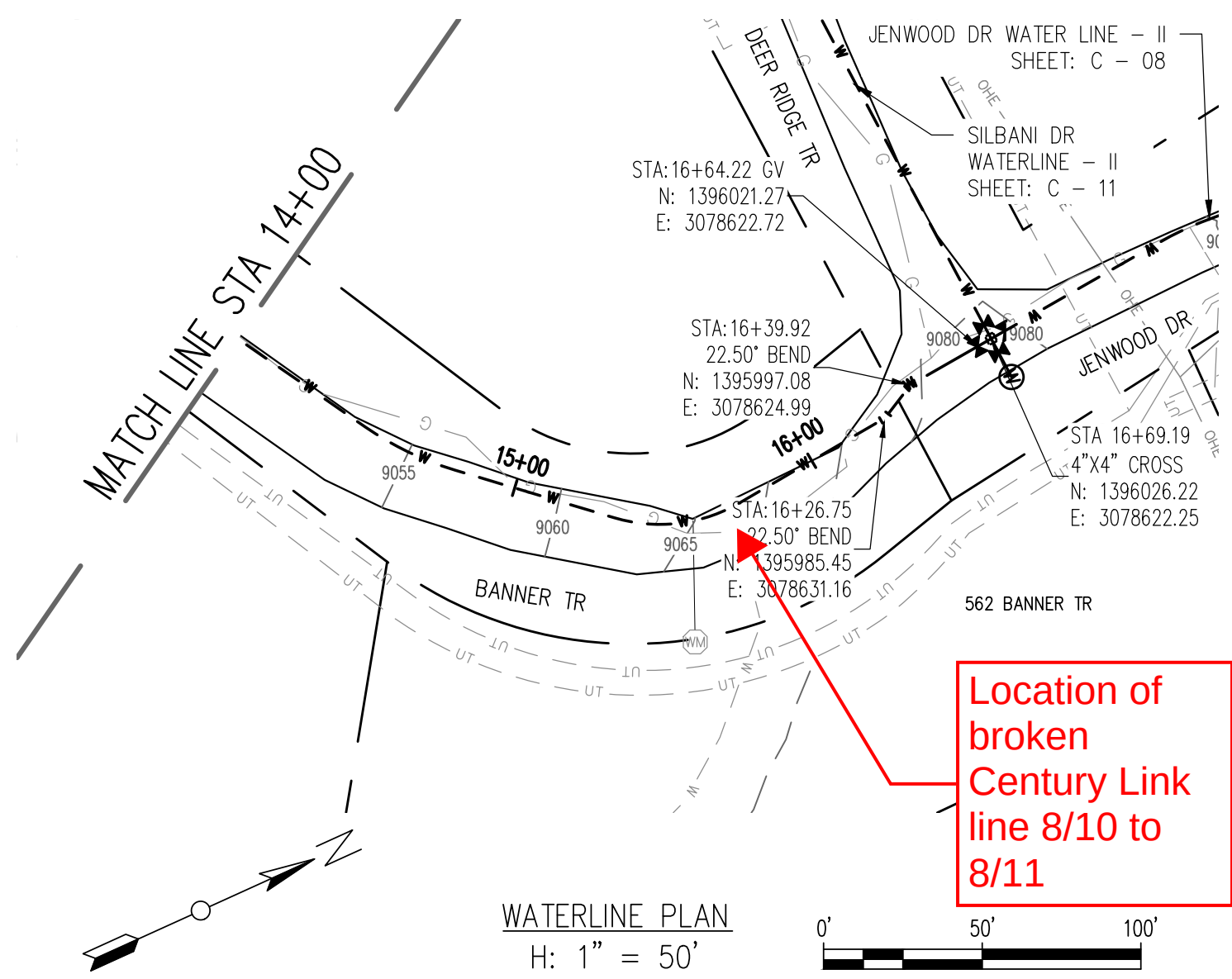
PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1299
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
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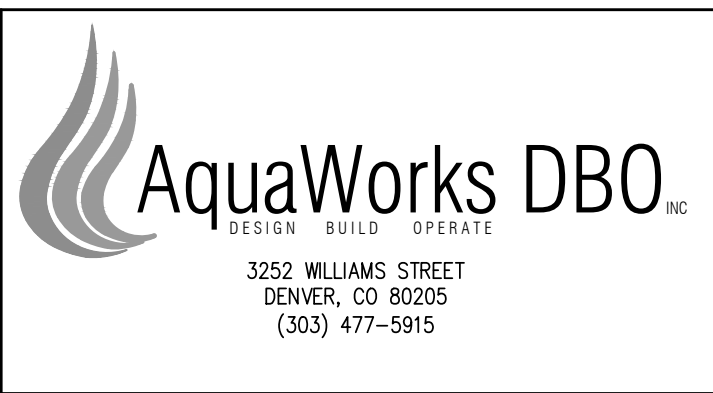
BANNER TR II WATERLINE - I
STA 1+00 TO STA 14+00

SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 23

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CONSTRUCTION
5/21/2020



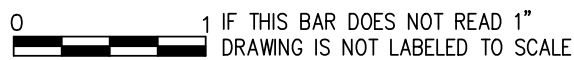
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ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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BANNER TR II WATERLINE - II
STA 14+00 TO END

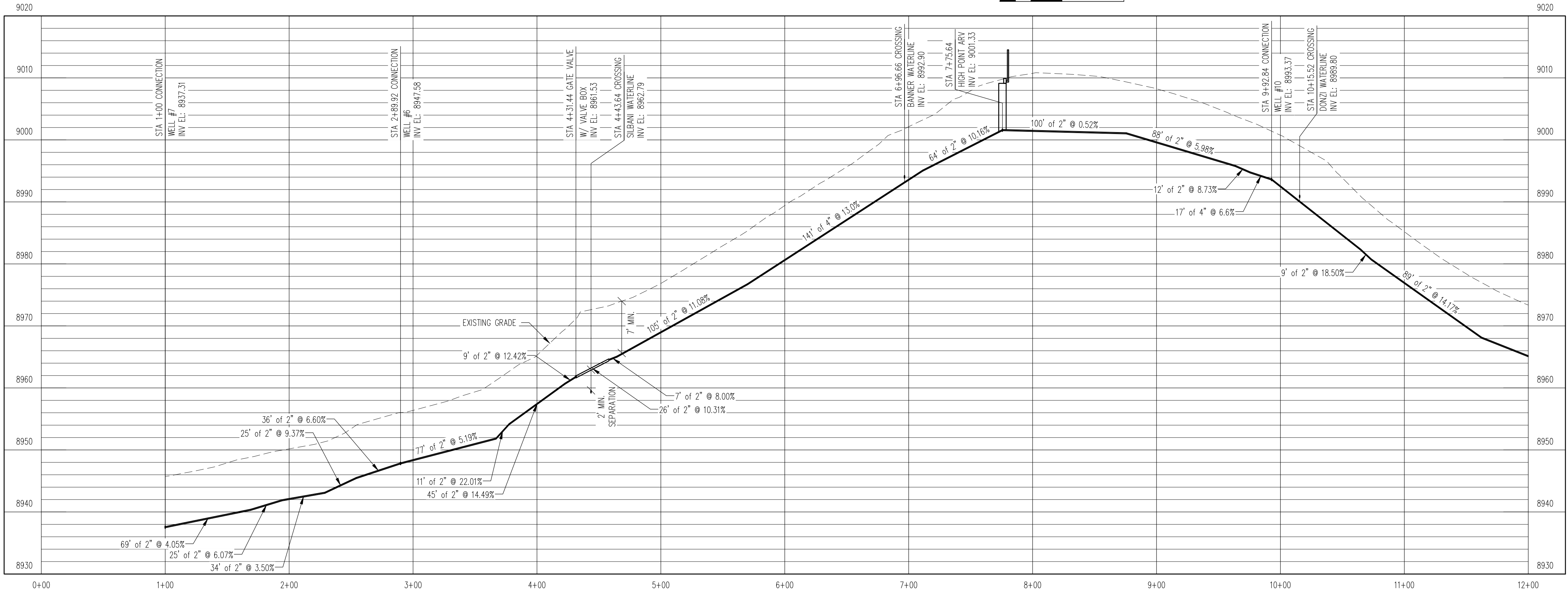
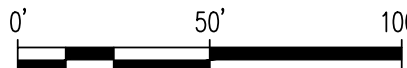
SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 24

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CONSTRUCTION
5/21/2020

Pipe installed
to here 7/21

pipe installed
8/1

WATERLINE PLAN
H: 1" = 50'



WATERLINE PROFILE
V: 1" = 10'

REV. No:	DATE:	BY:	REVISION DESCRIPTION:



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



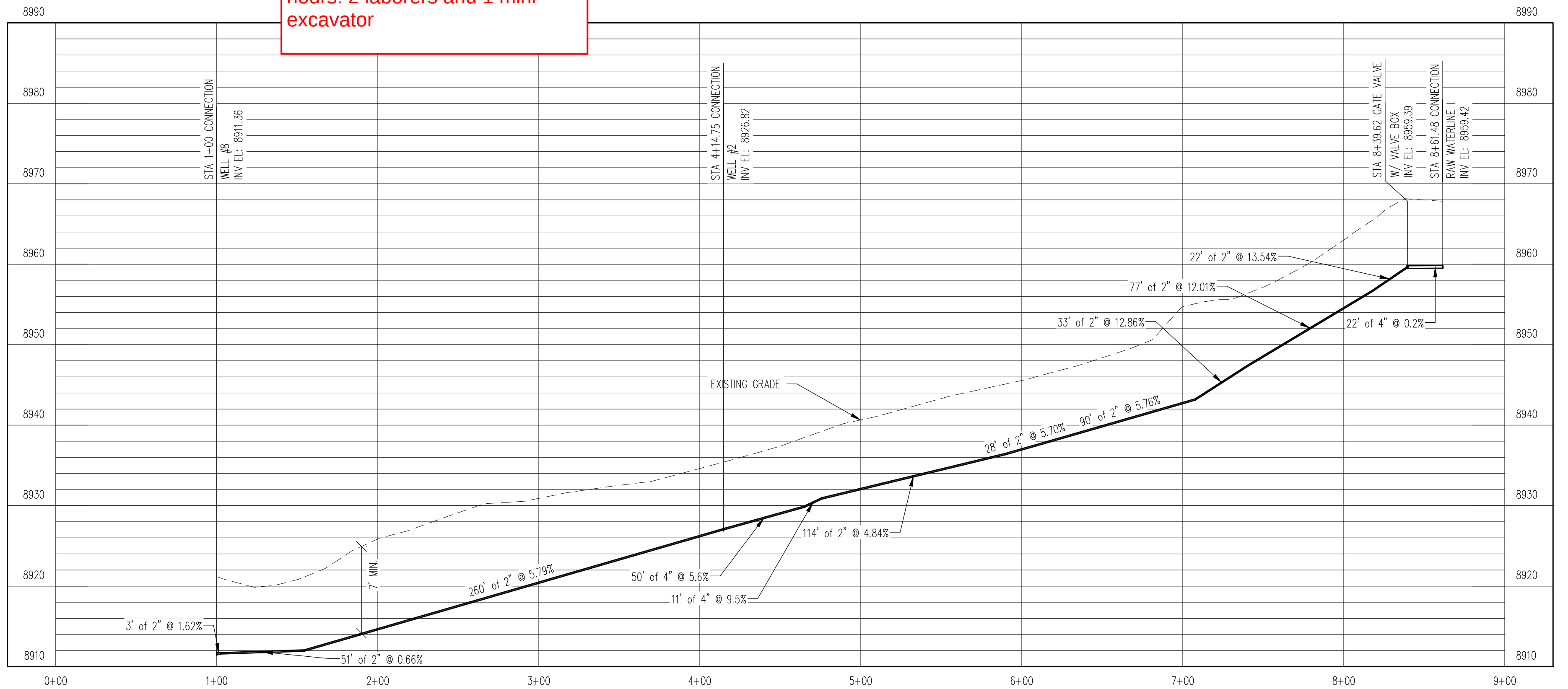
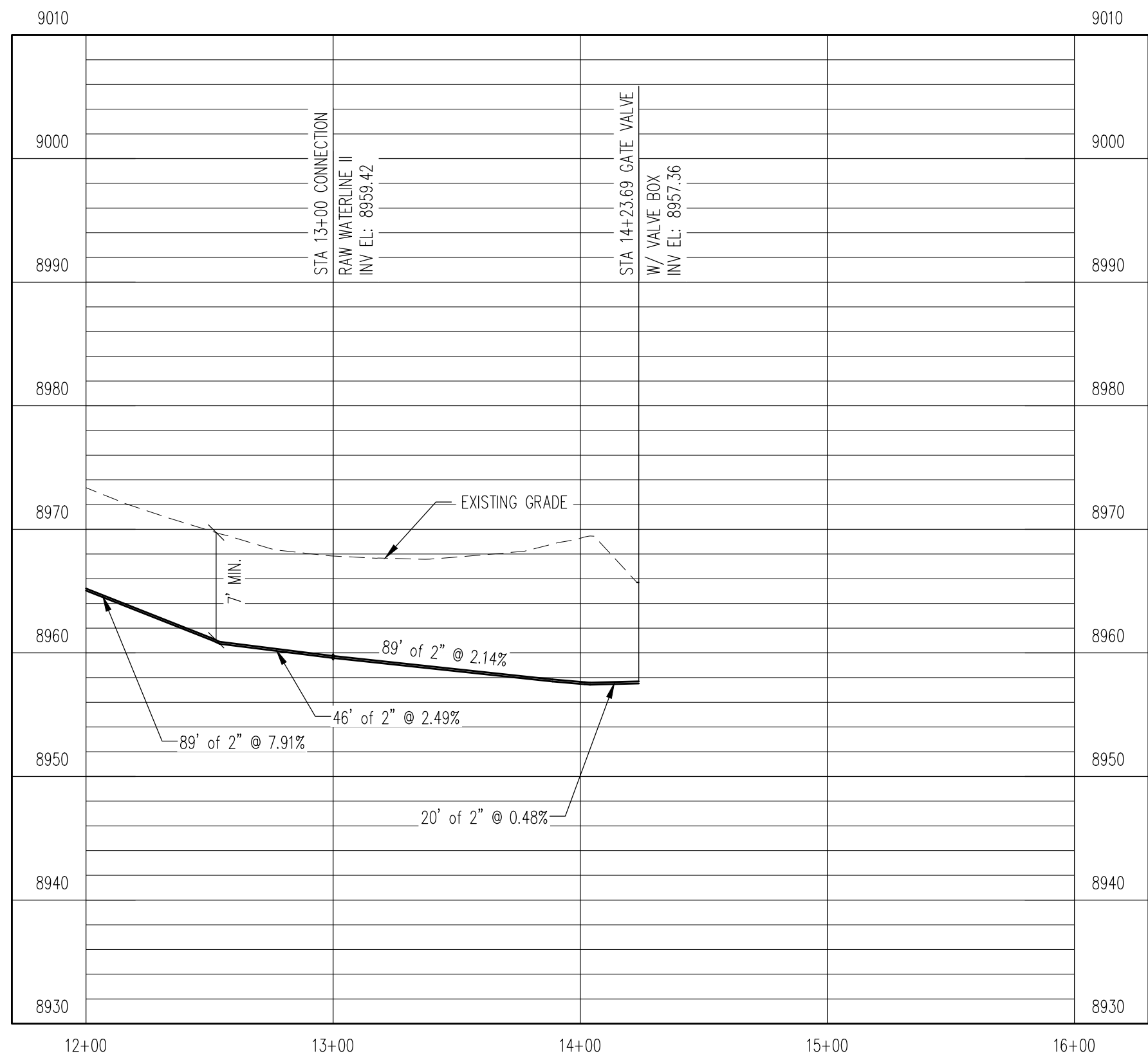
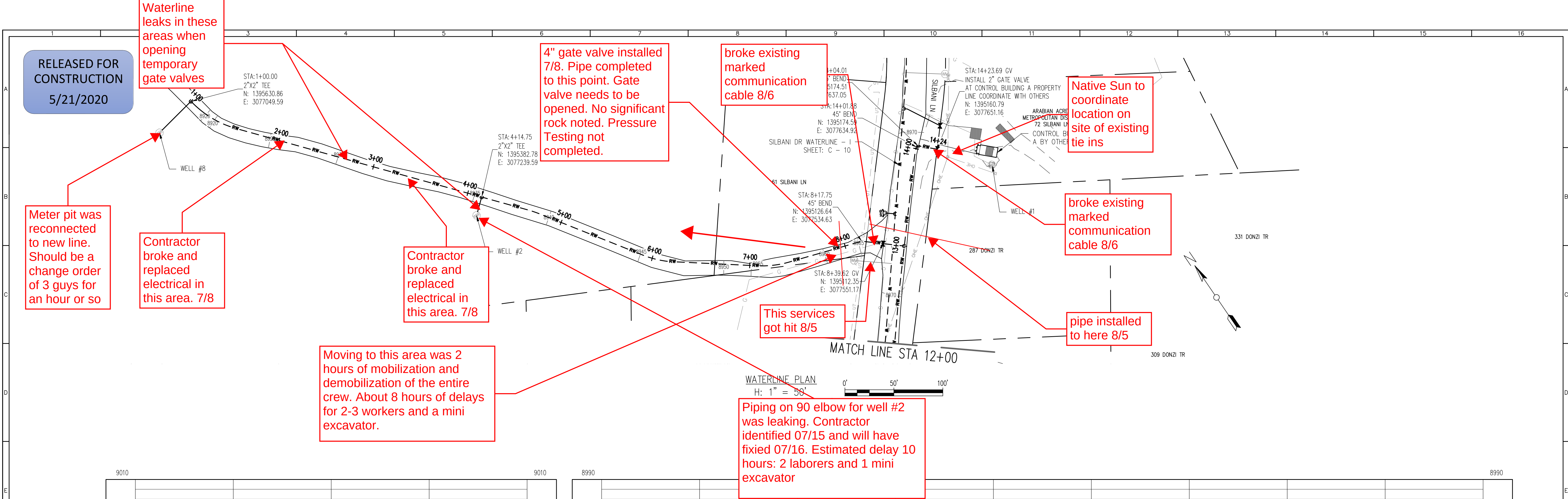
PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
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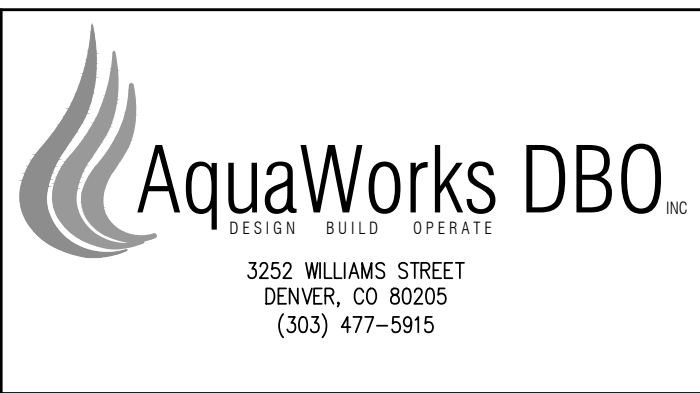
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RAW WATERLINE I - I
STA 1+00 TO STA 14+00

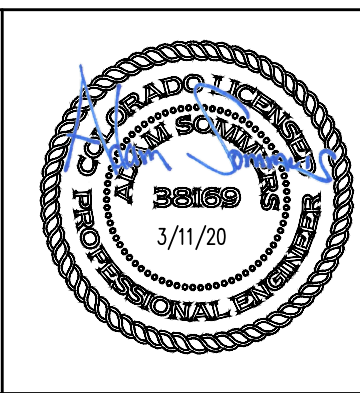
SCALE
H: 1" = 50'
V: 1" = 10'
SHEET NUMBER:
C - 25



REV. No.	DATE	BY	REVISION DESCRIPTION



ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT



PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1299
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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RAW WATERLINE I – II
STA 14+00 TO END
RAW WATERLINE II
STA 1+00 TO END

SCALE
H: 1" = 50'
V: 1" = 10'

SHEET NUMBER:
C – 26

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5/21/2020

DIRECTION OF TRAVEL

CHANNELIZING DEVICE (TYP.)

CL ROAD

20' SPACING TYP.

100' SIGN SPACING, TYP.

ONE-LANE, TWO-WAY TRAFFIC TAPER
50' MIN., 100' MAX

WORK SPACE
LENGTH VARIES

ONE-LANE, TWO-WAY TRAFFIC TAPER
50' MIN., 100' MAX
MATCH ELSEWHERE

ONE-LANE, TWO-WAY TRAFFIC TAPER DETAIL
NOT TO SCALE

LABEL NUMBER	SIGN	SIGN DESIGNATION	SIZE
1	ROAD WORK AHEAD	W20-1	36"x36"
2	ONE LANE ROAD	W20-4	36"x36"
3	BE PREPARED TO STOP	W3-4	36"x36"

NOTES:

- ALL SIGNS AND TRAFFIC DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY (M.U.T.C.D.).
- SHIFTING TAPERS SHALL BE A MINIMUM OF 50' AND A MAXIMUM OF 100'.
- TEMPORARY SIGNS SHALL BE PLACED AT AN INTERVAL OF 100' AND SHALL CONFORM TO THE M.U.T.C.D. REQUIREMENTS.
- ALWAYS MAINTAIN ONE LANE OF TRAFFIC.
- ONE DESIGNATED FLAGGER SHALL REMAIN AT SITE AT ALL TIMES. FLAGGER MUST BE CERTIFIED PER COLORADO LAW. FLAGGER CAN BE PART OF THE CONSTRUCTION CREW.
- MAINTAIN TELLER COUNTY TRAFFIC CONTROL REQUIREMENTS.

REV. No:	DATE:	BY:	REVISION DESCRIPTION:

AquaWorks DBO^{INC.}
DESIGN BUILD OPERATE
3252 WILLIAMS STREET
DENVER, CO 80205
(303) 477-5915

ARABIAN ACRES
METROPOLITAN DISTRICT
DISTRIBUTION SYSTEM
IMPROVEMENT PROJECT

PROJECT: DISTRIBUTION SYSTEM FINAL DESIGN
PROJECT NUMBER: 1289
CLIENT: ARABIAN ACRES METROPOLITAN DISTRICT
LOCATION: UNINCORPORATED TELLER COUNTY, COLORADO
DESIGNED BY: MIKE GROSELLE, P.E.
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TEMPORARY TRAFFIC CONTROL PLAN DETAILS

SCALE

N/A

SHEET NUMBER:

C - 27

