

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

1. CONTRACTOR: DeNucci Constructors, LLC.
2. Change Order Work Limits: Sta. 1 +14.70 to Sta. WL "A"
3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)
4. Reasons: 2E, 4B (3 Max. - In order of importance - Primary first)

Project:	<u>Forest North Phase 3</u>
Roadway:	<u>Drainage Improvements</u>
CSJ Number:	<u>3866</u>

5. Describe the work being revised:

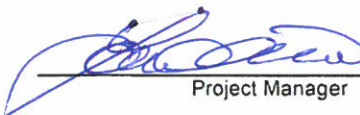
2E: Differing Site Conditions(unforeseeable). Miscellaneous difference in site conditions (unforeseeable). This Change Order makes various changes to the City of Austin (COA) water line layouts for both Perthshire and Wisterwood streets at Broadmeade Avenue in the Braes Valley Zone. **4B: Third Party Accommodation.** Third Party requested work. The cost of this Change Order is being paid for by the City of Austin and they have reviewed and approved this revision and additional cost.

6. Work to be performed in accordance with Items: see attached
7. New or revised plan sheet(s) are attached and numbered: C-101, C-104, C-105, C-106, C-107 & C-109
8. New Special Provisions/Specifications to the contract are attached: ☐ Yes ☒ No
9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

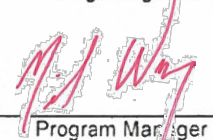
Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

<p><small>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses, additional changes for time, overhead and profit; or loss of compensation as a result of this change.</small></p> <p>THE CONTRACTOR Date <u>9/11/20</u></p> <p>By <u>Paul I. DeNucci</u></p> <p>Typed/Printed Name <u>PAUL I. DENUCCI</u></p> <p>Typed/Printed Title <u>MANAGER</u></p>	<p style="text-align: center;">The following information must be provided</p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>0</u></p> <p>Amount added by this change order: <u>\$22,353.00</u></p>
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RECOMMENDED FOR EXECUTION:

 9/14/20
Project Manager Date

N/A
Design Engineer Date

 9/29/2020
Program Manager Date

09/24/2020
City of Austin Project Manager Date

Design Engineer's Seal:

County Commissioner Precinct 1 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 3 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Judge Date
☐ APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

Project # Forest North Phase 3

Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE			HOURLY RATE

TABLE B: Contract Items:

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST		QUANTITY	ITEM COST	
509S-1	Trench Excavation Safety Protection Systems (All Depths)	LF	\$2.00	17,045.00	\$34,090.00	(101.00)	16,944.00	\$33,888.00	(\$202.00)
510-AW6-Dia	Pipe, 6" Diameter, DI CL 350 (All Depths) With Restrained Joints Includes Excavation and Backfill	LF	\$85.00	787.00	\$66,895.00	(3.00)	784.00	\$66,640.00	(\$255.00)
510-AW8-Dia	Pipe, 8" Diameter, DI CL 350 (All Depths) With Restrained Joints Includes Excavation and Backfill	LF	\$80.00	8,235.00	\$658,800.00	(68.00)	8,167.00	\$653,360.00	(\$5,440.00)
510-AW12-Dia	Pipe, 12" Diameter, DI CL 350 (All Depths) With Restrained Joints Includes Excavation and Backfill	LF	\$125.00	0.00	\$0.00	58.00	58.00	\$7,250.00	\$7,250.00
510-BW-2X2 Dia	Connecting New 2" Double HDPE Service to Existing Private Service, Complete and In Place	EA	\$1,750.00	60.00	\$105,000.00	1.00	61.00	\$106,750.00	\$1,750.00
510-JW-AC 12" x 12"	AC Pipe Connections, 12" Dia. x 12" Dia.	EA	\$5,600.00	0.00	\$0.00	4.00	4.00	\$22,400.00	\$22,400.00
510-JW-AC 8" x 8"	AC Pipe Connections, 8" Dia. x 8" Dia.	EA	\$4,000.00	12.00	\$48,000.00	(1.00)	11.00	\$44,000.00	(\$4,000.00)
1900-W6Dia	Removing Pipe, 6" Diameter, AC Pipe - For Removal at Storm Crossings, Required Restrained Joints, to Existing Couplings, and Other Areas Specified on Plans; Pipe Removal shall include the cost of trench and pavement repairs, Complete and in place; Removal of valves considered subsidiary to cost of pipe removal	LF	\$50.00	3,656.00	\$182,800.00	(70.00)	3,586.00	\$179,300.00	(\$3,500.00)
1900-W12Dia	Removing Pipe, 12" Diameter, AC Pipe - For Removal at Storm Crossings, Required Restrained Joints, to Existing Couplings, and Other Areas Specified on Plans; Pipe Removal shall include the cost of trench and pavement repairs, Complete and in place; Removal of valves considered subsidiary to cost of pipe removal	LF	\$75.00	0.00	\$0.00	58.00	58.00	\$4,350.00	\$4,350.00
TOTALS					\$1,095,585.00			\$1,117,938.00	\$22,353.00

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other

Williamson County Road Bond Program

Forest North Drainage Phase 3 Williamson County Project No. 3866

Change Order No. 1

Reason for Change

This Change Order makes various changes to the City of Austin (COA) water line layouts for both Perthshire and Wisterwood streets at Broadmeade Avenue in the Braes Valley Zone. These changes are shown in RFI's 5, 6 and 9. The cost of this Change Order is being paid for by the City of Austin. The Austin Water Utility (AWU) staff has reviewed and approved this revisions and additional costs.

When potholing the existing water line on Perthshire Street, it was determined that the existing COA 6" water line is not in conflict with the proposed drainage structures as shown in the plans, therefore the length of the removal of the existing water line relocation will be reduced.

When potholing the existing water line on Broadmeade Avenue at Wisterwood Street, it was discovered that the existing COA water line is a 12" water line instead of an 8" water line as indicated in the plans. The 12" pipe removal, 12" pipe and connections will be added to the Contract. This Change Order also adds a new 2" Double Service connection for an existing service relocation. The pricing for the new items is considered fair and reasonable based on comparison to similar existing item pricing in the Contract and the small quantity involved.

The following new items will be added by this Change Order.

ITEM	DESCRIPTION	QUANTITY	UNIT
510-AW12-Dia	Pipe, 12" Diameter, DI CL 350 (All Depths) With Restrained Joints Includes Excavation and Backfill	58.00	LF
SP510-JW-AC 12" x 12"	AC Pipe Connections, 12" Dia. x 12" Dia.	4.00	EA
SP1900- W12Dia	Removing Pipe, 12" Diameter, AC Pipe - For Removal at Storm Crossings, Required Restrained Joints, to Existing Couplings, and Other Areas Specified on Plans; Pipe Removal shall include the cost of trench and pavement repairs, Complete and in place; Removal of valves considered subsidiary to cost of pipe removal	58.00	LF

This Change Order results in a net increase of \$22,353.00 to the Contract amount, for an adjusted Contract total of \$4,815,411.15. The original Contract amount was \$4,793,058.15. As a result of this and all Change Orders to-date, \$22,353.00 has been added to the Contract, resulting in a 0.47% net increase in the overall Contract cost. No time will be added to the Contract for this Change Order. AWU has reviewed and approved these changes and pricing.

This Change Order is for water line changes that are part of the COA-funded portion of the Contract. This Change Order is a net increase of \$22,353.00 for an adjusted City Contract amount of \$1,784,920.00. The original water line portion of the Contract was \$1,762,567.00. The \$22,353.00 increase equals a 1.27% increase in the City of Austin water line Contract.

HNTB Corporation

James Klotz, P.E.

Clayton Weber

From: Odufuye, Adewale <Adewale.Odufuye@austintexas.gov>
Sent: Monday, July 27, 2020 8:29 PM
To: Tracy Cooper; Eddie R. Church; Ramones, Rick
Cc: 34275_RB_ForestNorthDrainage; Clayton Weber; Lowell Choate; Azari, Houman; Moore, Eva; Locklear, Alexa; Kristen Van Hoosier
Subject: RE: FW: 3866 Forest North Ph III Final Revised RFI #11: Additional Potholing
Attachments: 3866-FN3-CO#1a COA WL revs Reason.docx; 20200624_FN3_WL_RFI-CostChanges.xlsx
Importance: High

Hello Tracy,

The proposal to add three (3) new items and additional \$3,553.00 to the contract is approved. One of the statement on the attached document says, "This Change Order results in a net increase of \$3,553.00 to the Contract amount, for an adjusted Contract total of \$4,796,611.15" I presume this new contract price is for the whole contract cost and not the City Utility Relocation construction cost. Please clarify.

Thank you,

Wale Odufuye, P.E.
Consulting Engineer | Engineering Services Division
Public Works Department | City of Austin, Texas
512-974-7119 direct
512-784-2023 mobile



From: Tracy Cooper <tcooper@HNTB.com>
Sent: Monday, July 27, 2020 12:36 PM
To: Eddie R. Church <erchurch@HNTB.com>; Locklear, Alexa <Alexa.Locklear@austintexas.gov>; Odufuye, Adewale <Adewale.Odufuye@austintexas.gov>
Cc: 34275_RB_ForestNorthDrainage <34275_RB_ForestNorthDrainage@HNTB.com>; Clayton Weber <cweber@HNTB.com>; Lowell Choate <lchoate@HNTB.com>; Azari, Houman <Houman.Azari@austintexas.gov>; Ramones, Rick <Rick.Ramones@austintexas.gov>; Moore, Eva <Eva.Moore@austintexas.gov>
Subject: RE: FW: 3866 Forest North Ph III Final Revised RFI #11: Additional Potholing

Eva/Wale,

We are also still in need of approval of pricing for CO #1 (attached). This work is scheduled for this Thursday.

Thank you,

Tracy Cooper
Field Representative
Tel (512) 691-2268
Cell (512) 608-7468 Email tcooper@hntb.com

HNTB CORPORATION
101 E. Old Settlers Blvd.; Round Rock, Texas 78664

 **100+ YEARS OF INFRASTRUCTURE SOLUTIONS**

Eddie R. Church*Contractor Pricing*

From: paul@denucciconstructors.com
Sent: Tuesday, June 23, 2020 4:34 PM
To: Dawn Haggard; Clayton Weber; James Klotz; Eddie R. Church; Aaron DeNucci; Tracy Cooper; 34275_RB_ForestNorthDrainage; Josh Walenta
Subject: Added line Items - Forest North

It is our understanding that the following additional line items may be required for the Forest North project that are not currently in the contract. They are listed below with their proposed respective pricing:

- | | | | |
|--|--------------------------------------|---------------------------------|-------------|
| 1. Remove 12" AC pipe: | \$75.00/LF | $\times 20.00 \text{ LF} =$ | \$1500.00 |
| 2. Furnish and install 12" DI Pipe | \$125.00/LF (includes trench repair) | $125.00 \times 20 \text{ LF} =$ | \$2500.00 |
| 3. AC Pipe connection 12" Dia x 12" Dia: | \$5,600.00 EA | $\times 2 \text{ EA} =$ | \$11,200.00 |

Ductile iron fittings will be billed by the TN per the current bid item.

Thank you.

Paul T. DeNucci
DeNucci Constructors, LLC
8310-1 Cap Tx Hwy N. Ste 275
Austin, Texas 78731
512-335-0600
512-342-0600 fax
512-658-3986 cell
paul@denucciconstructors.com
www.denucciconstructors.com

Clayton Weber

From: Kristen Van Hoosier <KVanHoosier@cobb fendley.com>
Sent: Tuesday, June 30, 2020 1:11 PM
To: Eddie R. Church
Cc: 34275_RB_ForestNorthDrainage; Tracy Cooper; Clayton Weber; Lowell Choate; Hope Newton; Julie Hastings
Subject: RE: Forest North Phase 3 - RFI #5 & #6 for WL Qtys
Attachments: FN3_WL_RFI-CostChanges.xlsx

Eddie,

The changes in quantities are the same from the spreadsheet I sent last week, and there is a tab in the spreadsheet which pertains to each RFI. Here is a summary:

- **RFI #5**
 - Trench Excavation Safety Protection Systems = -138 LF = (\$276)
 - Pipe, 6" Diameter, DI CL-350 = -3 LF = (\$255)
 - Pipe, 8" Diameter, DI CL-350 = -65 LF = (\$5200)
 - Removing Pipe, 6" AC Pipe = -70 LF = (\$3500)
 - **Total cost change = (\$9231)**
- **RFI #6**
 - Trench Excavation Safety Protection Systems = +37LF = +\$74
 - Pipe, 8" Diameter, DI CL-350 = -3LF = (\$240)
 - **NEW ITEM – Pipe, 12" Diameter, DI CL-350 = +20 LF = +\$2500**
 - Connecting New 2" Double HDPE Service = +1 EA = +\$1750
 - **NEW ITEM – AC Pipe Connection, 12"x12" = +2 EA = +\$11200**
 - AC Pipe Connection, 8"x8" = -1 EA = (\$4000)
 - **NEW ITEM – Removing Pipe, 12" AC Pipe = +20 LF = +\$1500**
 - **Total cost change = +\$12784**

Thank you,

KRISTEN VAN HOOSIER, P.E.

Project Engineer

office 512.834.9798
direct 512.646.4326
mobile 832.657.9084

505 E. Huntland Drive, Suite 100 | Austin, TX 78752
cobb fendley.com | TBPE No. F-274 | TBPLS No. 10046701



From: Eddie R. Church <erchurch@HNTB.com>
Sent: Tuesday, June 30, 2020 12:55 PM
To: Kristen Van Hoosier <KVanHoosier@cobb fendley.com>
Cc: 34275_RB_ForestNorthDrainage <34275_RB_ForestNorthDrainage@HNTB.com>; Tracy Cooper <tcooper@HNTB.com>; Clayton Weber <cweber@HNTB.com>; Lowell Choate <lchoate@HNTB.com>; Hope Newton <HNewton@Cobb fendley.com>; Julie Hastings <JHastings@cobb fendley.com>
Subject: Forest North Phase 3 - RFI #5 & #6 for WL Qtys

Kristen,

Did these revisions only cause reductions in quantities? Could you please provide a list of items and deltas in quantities. If any new items, please list separately.

Thank you,

Eddie R. Church, PE
Project Manager
Tel (512) 527-6723 Mobile (512) 297-0524 Email erchurch@hntb.com

HNTB CORPORATION
101 E. Old Settlers Blvd., Ste. 100 | Round Rock, TX 78664 | hntb.com

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From: Kristen Van Hoosier <KVanHoosier@cobb fendley.com>

Sent: Tuesday, June 30, 2020 11:32 AM

To: Eddie R. Church <erchurch@HNTB.com>

Cc: 34275_RB_ForestNorthDrainage <34275_RB_ForestNorthDrainage@HNTB.com>; Tracy Cooper <tcooper@HNTB.com>; Clayton Weber <cweber@HNTB.com>; Hope Newton <HNewton@Cobb fendley.com>; Julie Hastings <JHastings@cobb fendley.com>; Hodges, Jeffrey <Jeffrey.Hodges@austintexas.gov>; Orta, Simon <Simon.Orta@austintexas.gov>; Azari, Houman <Houman.Azari@austintexas.gov>; Resendez, George <George.Resendez@austintexas.gov>; Aaron DeNucci <aarond@denucciconstructors.com>; adewale.odufuye <adewale.odufuye@austintexas.gov>; Moore, Eva <Eva.Moore@austintexas.gov>

Subject: RE: Forest North Phase 3 - RFI #6 for WL

Good morning Eddie,

AWU approved the revised plans (C-101, 105, 106, 107, 109) due to RFIs #5 and 6. Please see the attached, along with our responses to the RFIs to close them out.

Please let us know if you need anything else.

Thank you,

KRISTEN VAN HOOSIER, P.E.
Project Engineer

office 512.834.9798
direct 512.646.4326
mobile 832.657.9084

505 E. Huntland Drive, Suite 100 | Austin, TX 78752
cobb fendley.com | TBPE No. F-274 | TBPLS No. 10046701

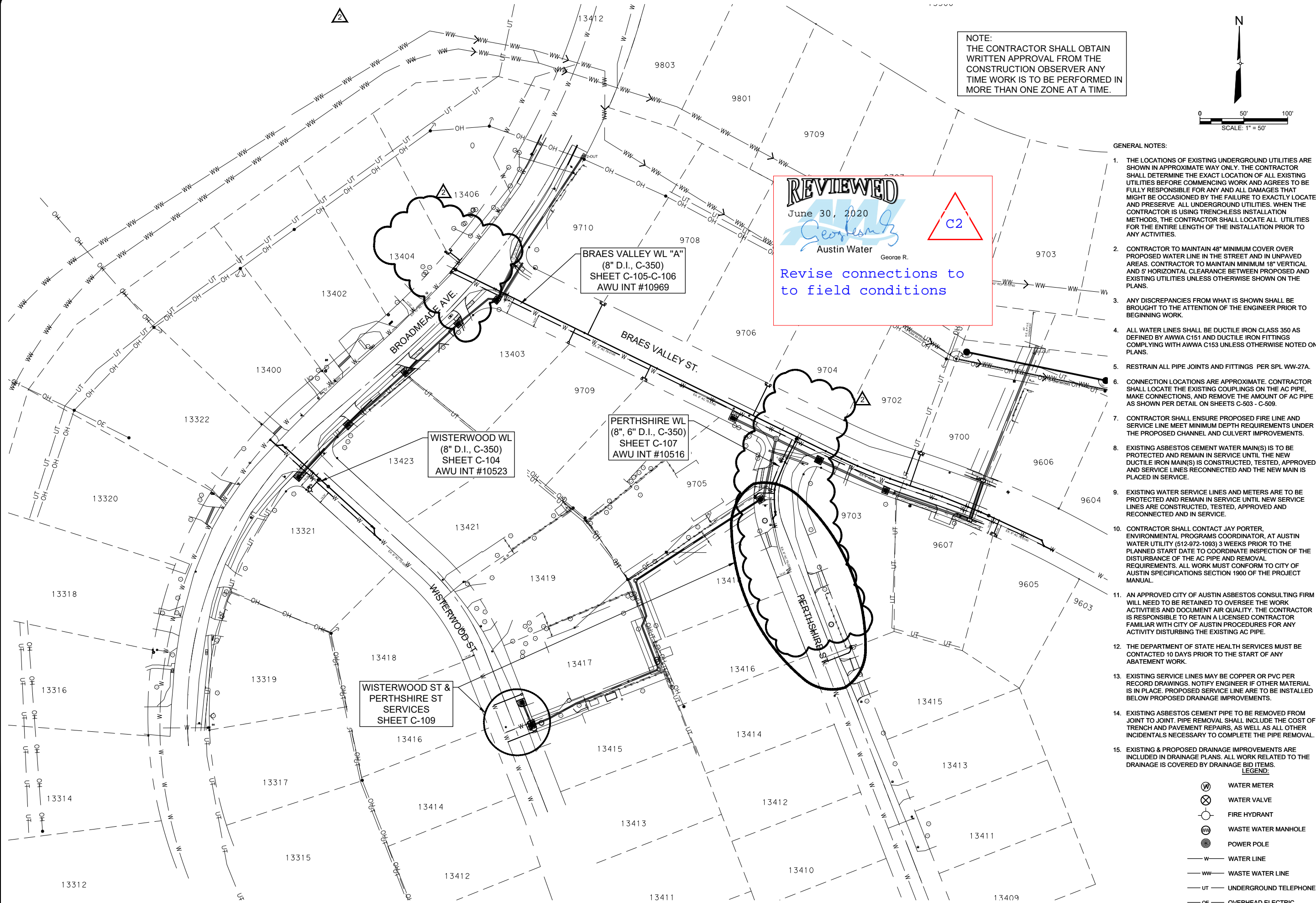


From: Kristen Van Hoosier

Sent: Friday, June 19, 2020 11:43 AM

To: Eddie R. Church <erchurch@HNTB.com>

Cc: 34275_RB_ForestNorthDrainage <34275_RB_ForestNorthDrainage@HNTB.com>; Tracy Cooper <tcooper@HNTB.com>; Clayton Weber <cweber@HNTB.com>; Hope Newton <HNewton@cobb fendley.com>; Julie Hastings <JHastings@cobb fendley.com>; Hodges, Jeffrey <Jeffrey.Hodges@austintexas.gov>; Orta, Simon



- GENERAL NOTES:**
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
 - CONTRACTOR TO MAINTAIN 48" MINIMUM COVER OVER PROPOSED WATER LINE IN THE STREET AND IN UNPAVED AREAS. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL AND 5' HORIZONTAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE PLANS.
 - ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING WORK.
 - ALL WATER LINES SHALL BE DUCTILE IRON CLASS 350 AS DEFINED BY AWWA C151 AND DUCTILE IRON FITTINGS COMPLYING WITH AWWA C153 UNLESS OTHERWISE NOTED ON PLANS.
 - RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
 - CONNECTION LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE THE EXISTING COUPLINGS ON THE AC PIPE, MAKE CONNECTIONS, AND REMOVE THE AMOUNT OF AC PIPE AS SHOWN PER DETAIL ON SHEETS C-503 - C-509.
 - CONTRACTOR SHALL ENSURE PROPOSED FIRE LINE AND SERVICE LINE MEET MINIMUM DEPTH REQUIREMENTS UNDER THE PROPOSED CHANNEL AND CULVERT IMPROVEMENTS.
 - EXISTING ASBESTOS CEMENT WATER MAIN(S) IS TO BE PROTECTED AND REMAIN IN SERVICE UNTIL THE NEW DUCTILE IRON MAIN(S) IS CONSTRUCTED, TESTED, APPROVED AND SERVICE LINES RECONNECTED AND THE NEW MAIN IS PLACED IN SERVICE.
 - EXISTING WATER SERVICE LINES AND METERS ARE TO BE PROTECTED AND REMAIN IN SERVICE UNTIL NEW SERVICE LINES ARE CONSTRUCTED, TESTED, APPROVED AND RECONNECTED AND IN SERVICE.
 - CONTRACTOR SHALL CONTACT JAY PORTER, ENVIRONMENTAL PROGRAMS COORDINATOR, AT AUSTIN WATER UTILITY (512-972-1093) 3 WEEKS PRIOR TO THE PLANNED START DATE TO COORDINATE INSPECTION OF THE DISTURBANCE OF THE AC PIPE AND REMOVAL REQUIREMENTS. ALL WORK MUST CONFORM TO CITY OF AUSTIN SPECIFICATIONS SECTION 1900 OF THE PROJECT MANUAL.
 - AN APPROVED CITY OF AUSTIN ASBESTOS CONSULTING FIRM WILL NEED TO BE RETAINED TO OVERSEE THE WORK ACTIVITIES AND DOCUMENT AIR QUALITY. THE CONTRACTOR IS RESPONSIBLE TO RETAIN A LICENSED CONTRACTOR FAMILIAR WITH CITY OF AUSTIN PROCEDURES FOR ANY ACTIVITY DISTURBING THE EXISTING AC PIPE.
 - THE DEPARTMENT OF STATE HEALTH SERVICES MUST BE CONTACTED 10 DAYS PRIOR TO THE START OF ANY ABATEMENT WORK.
 - EXISTING SERVICE LINES MAY BE COPPER OR PVC PER RECORD DRAWINGS. NOTIFY ENGINEER IF OTHER MATERIAL IS IN PLACE. PROPOSED SERVICE LINE ARE TO BE INSTALLED BELOW PROPOSED DRAINAGE IMPROVEMENTS.
 - EXISTING ASBESTOS CEMENT PIPE TO BE REMOVED FROM JOINT TO JOINT. PIPE REMOVAL SHALL INCLUDE THE COST OF TRENCH AND PAVEMENT REPAIRS, AS WELL AS ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE PIPE REMOVAL.
 - EXISTING & PROPOSED DRAINAGE IMPROVEMENTS ARE INCLUDED IN DRAINAGE PLANS. ALL WORK RELATED TO THE DRAINAGE IS COVERED BY DRAINAGE BID ITEMS.

REV	NO.	REVISION DESCRIPTION	APPROVED	DATE
1	1	CHANGED DESIGN DUE TO DRN CHANGE	KV	2/10/2020
2	2	COMBINED BRAES VALLEY WL INTO ONE ALGN	KV	3/18/2020
3	3	CHANGED PERTSHIRE WL ALGN AND STATION	KV	6/17/2020
4	4	DUE TO FIELD CONDITIONS	KV	6/17/2020
5	5	CHANGED BRAES VALLEY WL "A" CONNECTION	KV	6/19/2020
6	6	DUE TO FIELD CONDITIONS	KV	6/19/2020

CobbFendley
505 EAST HUNT AND DRIVE, SUITE 100
AUSTIN, TEXAS 78762
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

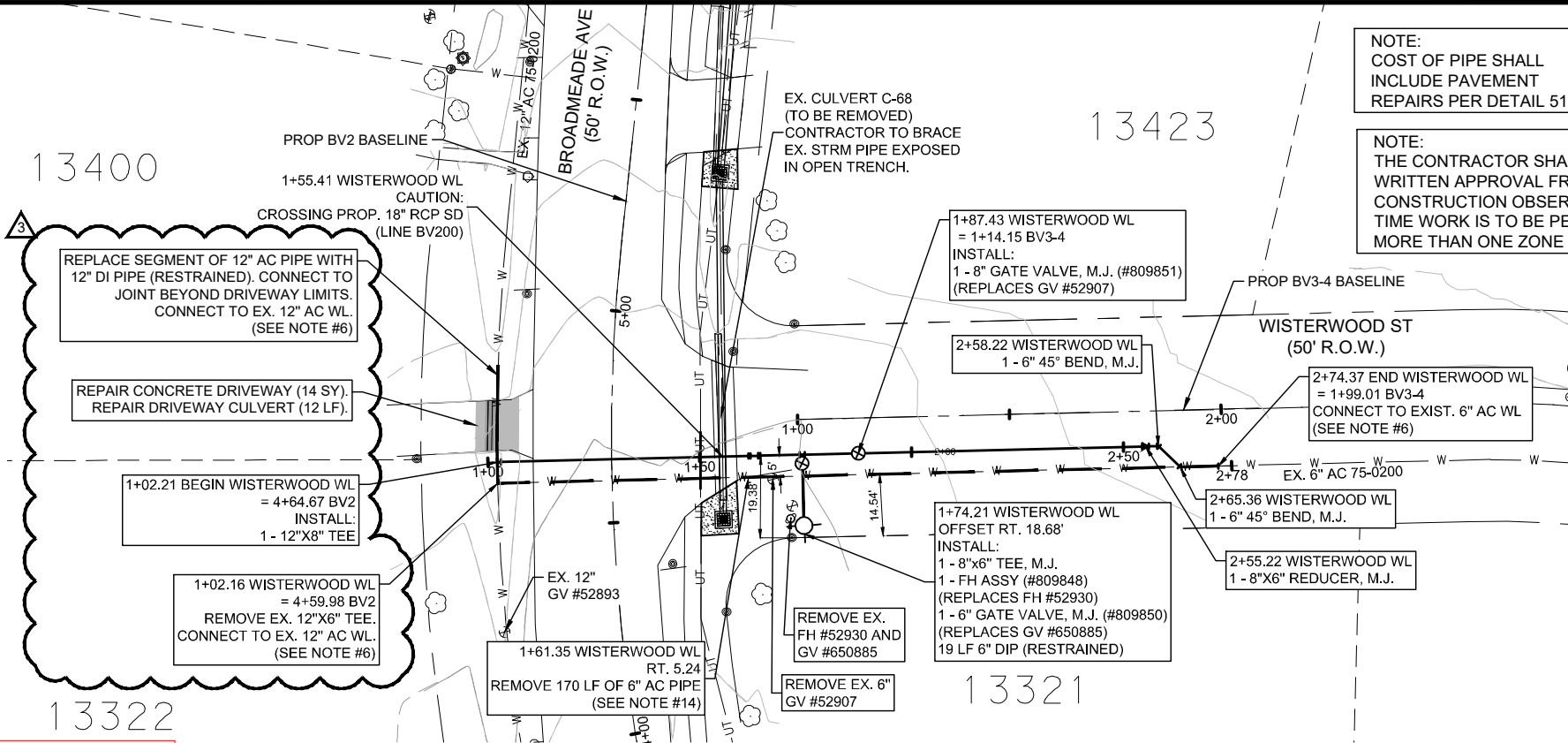
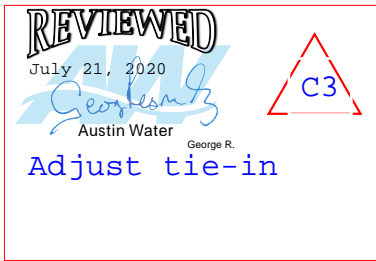
BRAES VALLEY ZONE - OVERALL
FOREST NORTH UTILITY RELOCATION - PHASE III
AUSTIN, TX

WILLIAMSON COUNTY
1848

PROJ. NO. 1903-099-03-03
DESIGN: G. LITTLEFIELD
DRAWN: K. VAN HOOSIER
CHECK: J. HASTINGS
APPR: K. VAN HOOSIER
DATE: JUNE 17, 2020

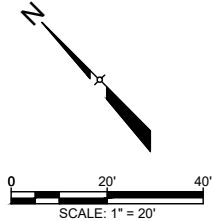
STATE OF TEXAS
K. VAN HOOSIER
136882
JUNE 19, 2020

SHEET C-101
4 of 75



NOTE:
COST OF PIPE SHALL
INCLUDE PAVEMENT
REPAIRS PER DETAIL 510S-3

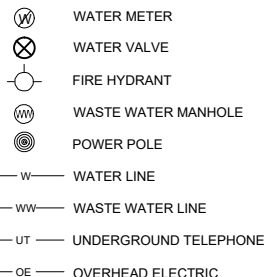
NOTE:
THE CONTRACTOR SHALL OBTAIN
WRITTEN APPROVAL FROM THE
CONSTRUCTION OBSERVER ANY
TIME WORK IS TO BE PERFORMED IN
MORE THAN ONE ZONE AT A TIME.



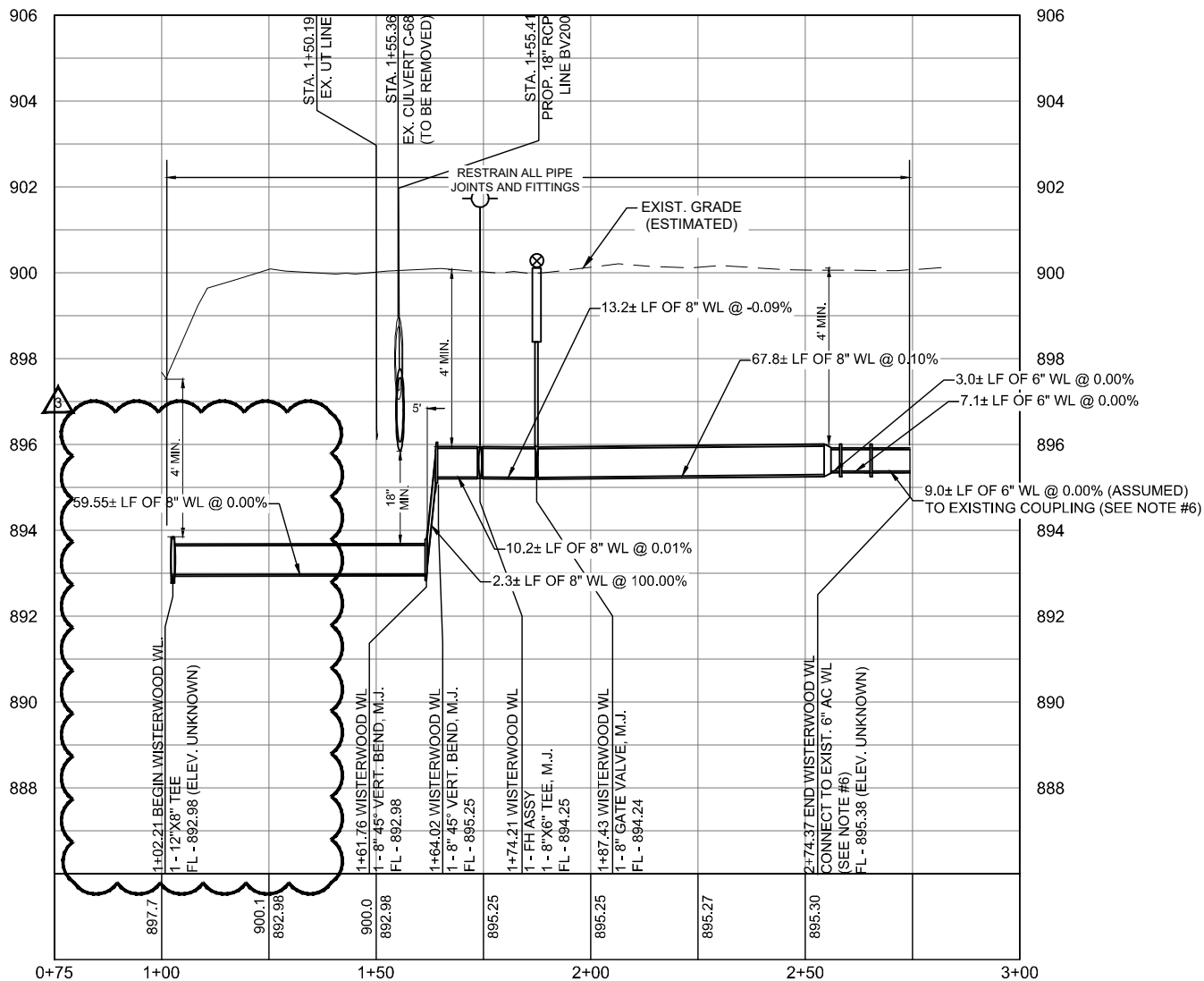
AWU GRID #G39-2
AWU INT #10523

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
2. CONTRACTOR TO MAINTAIN 48" MINIMUM COVER OVER PROPOSED WATER LINE IN THE STREET AND IN UNPAVED AREAS. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL AND 5' HORIZONTAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE PLANS.
3. ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING WORK.
4. ALL WATER LINES SHALL BE DUCTILE IRON CLASS 350 AS DEFINED BY AWWA C151 AND DUCTILE IRON FITTINGS COMPLYING WITH AWWA C153 UNLESS OTHERWISE NOTED ON PLANS.
5. RESTRAIN ALL PIPE JOINTS AND FITTINGS PER SPL WW-27A.
6. CONNECTION LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE THE EXISTING COUPLINGS ON THE AC PIPE, MAKE CONNECTIONS, AND REMOVE THE AMOUNT OF AC PIPE AS SHOWN PER DETAIL ON SHEETS C-503 - C-509.
7. CONTRACTOR SHALL ENSURE PROPOSED FIRE LINE AND SERVICE LINE MEET MINIMUM DEPTH REQUIREMENTS UNDER THE PROPOSED CHANNEL AND CULVERT IMPROVEMENTS.
8. EXISTING ASBESTOS CEMENT WATER MAIN(S) IS TO BE PROTECTED AND REMAIN IN SERVICE UNTIL THE NEW DUCTILE IRON MAIN(S) IS CONSTRUCTED, TESTED, APPROVED AND SERVICE LINES RECONNECTED AND THE NEW MAIN IS PLACED IN SERVICE.
9. EXISTING WATER SERVICE LINES AND METERS ARE TO BE PROTECTED AND REMAIN IN SERVICE UNTIL NEW SERVICE LINES ARE CONSTRUCTED, TESTED, APPROVED AND RECONNECTED AND IN SERVICE.
10. CONTRACTOR SHALL CONTACT JAY PORTER, ENVIRONMENTAL PROGRAMS COORDINATOR, AT AUSTIN WATER UTILITY (512-972-1093) 3 WEEKS PRIOR TO THE PLANNED START DATE TO COORDINATE INSPECTION OF THE DISTURBANCE OF THE AC PIPE AND REMOVAL REQUIREMENTS. ALL WORK MUST CONFORM TO CITY OF AUSTIN SPECIFICATIONS SECTION 1900 OF THE PROJECT MANUAL.
11. AN APPROVED CITY OF AUSTIN ASBESTOS CONSULTING FIRM WILL NEED TO BE RETAINED TO OVERSEE THE WORK ACTIVITIES AND DOCUMENT AIR QUALITY. THE CONTRACTOR IS RESPONSIBLE TO RETAIN A LICENSED CONTRACTOR FAMILIAR WITH CITY OF AUSTIN PROCEDURES FOR ANY ACTIVITY DISTURBING THE EXISTING AC PIPE.
12. THE DEPARTMENT OF STATE HEALTH SERVICES MUST BE CONTACTED 10 DAYS PRIOR TO THE START OF ANY ABATEMENT WORK.
13. EXISTING SERVICE LINES MAY BE COPPER OR PVC PER RECORD DRAWINGS. NOTIFY ENGINEER IF OTHER MATERIAL IS IN PLACE. PROPOSED SERVICE LINE ARE TO BE INSTALLED BELOW PROPOSED DRAINAGE IMPROVEMENTS.
14. EXISTING ASBESTOS CEMENT PIPE TO BE REMOVED FROM JOINT TO JOINT. PIPE REMOVAL SHALL INCLUDE THE COST OF TRENCH AND PAVEMENT REPAIRS, AS WELL AS ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE PIPE REMOVAL.
15. EXISTING & PROPOSED DRAINAGE IMPROVEMENTS ARE INCLUDED IN DRAINAGE PLANS. ALL WORK RELATED TO THE DRAINAGE IS COVERED BY DRAINAGE BID ITEMS.



PROFILE SCALE
1"=20' HORIZ.
1"=2' VERT.



EXISTING
GRADE
1258.79
FLOW LINE
OF PIPE

REV. NO.	DATE	APPROVED BY	REVISION DESCRIPTION
1	7/20/2020	KV	CHANGED CONNECTION TO 12" WL DUE TO FIELD CONDITIONS

CobbFendley
505 EAST HUNTLAND DRIVE, SUITE 100
AUSTIN, TEXAS 78752
512.834.9798 / FAX 512.834.1727
WWW.COBBFENDLEY.COM

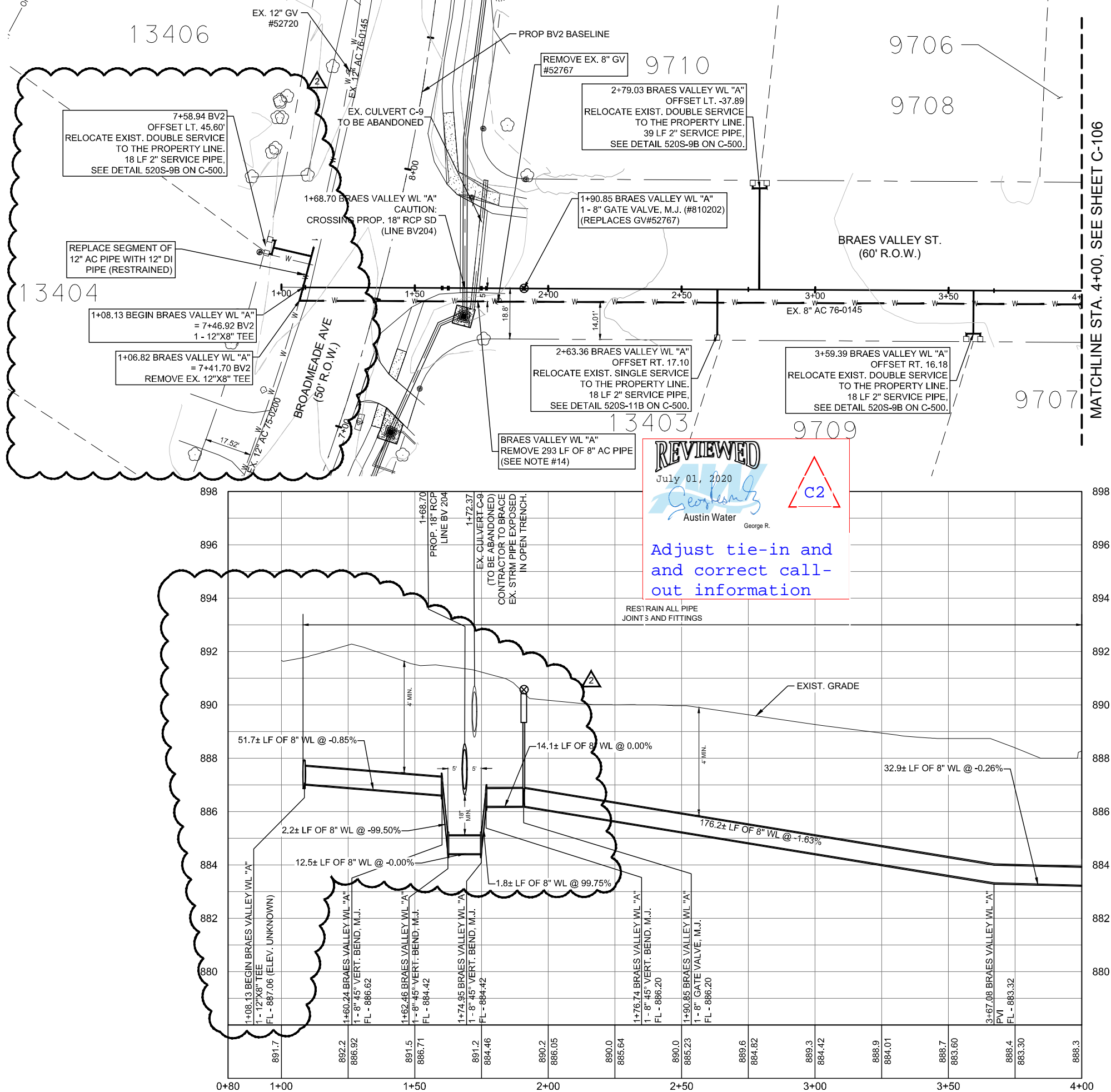
WISTERWOOD WL - PLAN & PROFILE
FOREST NORTH UTILITY RELOCATION - PHASE III
AUSTIN, TX

WILLIAMSON COUNTY
1848

PROJ. NO. 1903-099-03-03
DESIGN: G. LITTLEFIELD
DRAWN: K. VAN HOOSIER
CHECK: J. HASTINGS
APPR: K. VAN HOOSIER
DATE: JULY 20, 2020

KRISTEN VAN HOOSIER
136882
7/20/2020

SHEET
C-104
7 of 75



NOTE:
THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE CONSTRUCTION OBSERVER ANY TIME WORK IS TO BE PERFORMED IN MORE THAN ONE ZONE AT A TIME.

NOTE:
COST OF PIPE SHALL INCLUDE PAVEMENT REPAIRS PER DETAIL 510S-3

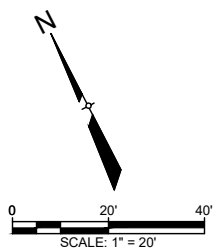
AWU GRID #G39-2
AWU INT #10969

GENERAL NOTES:

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES.
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- LEGEND:
- W WATER METER
 - X WATER VALVE
 - FIRE HYDRANT
 - WW WASTE WATER MANHOLE
 - POWER POLE
 - W — WATER LINE
 - WW — WASTE WATER LINE
 - UT — UNDERGROUND TELEPHONE
 - OE — OVERHEAD ELECTRIC

PROFILE SCALE
1"=20' HORIZ.
1"=2' VERT.



REV.	NO.	DESCRIPTION	DATE
1	1	CONSTRUCT BRAES VALLEY INTO ONE ALN	3/18/2020
2	2	CHANGED CONNECTION TO 12" WATERLINE	7/01/2020
3	3	ALONG BROADMEADE AVE	

CobbFendley
10000 N. MICHIGAN AVE., SUITE 100
AUSTIN, TEXAS 78762
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

BRAES VALLEY WL "A" - STA. 1+00 TO 4+00 - PLAN & PROFILE

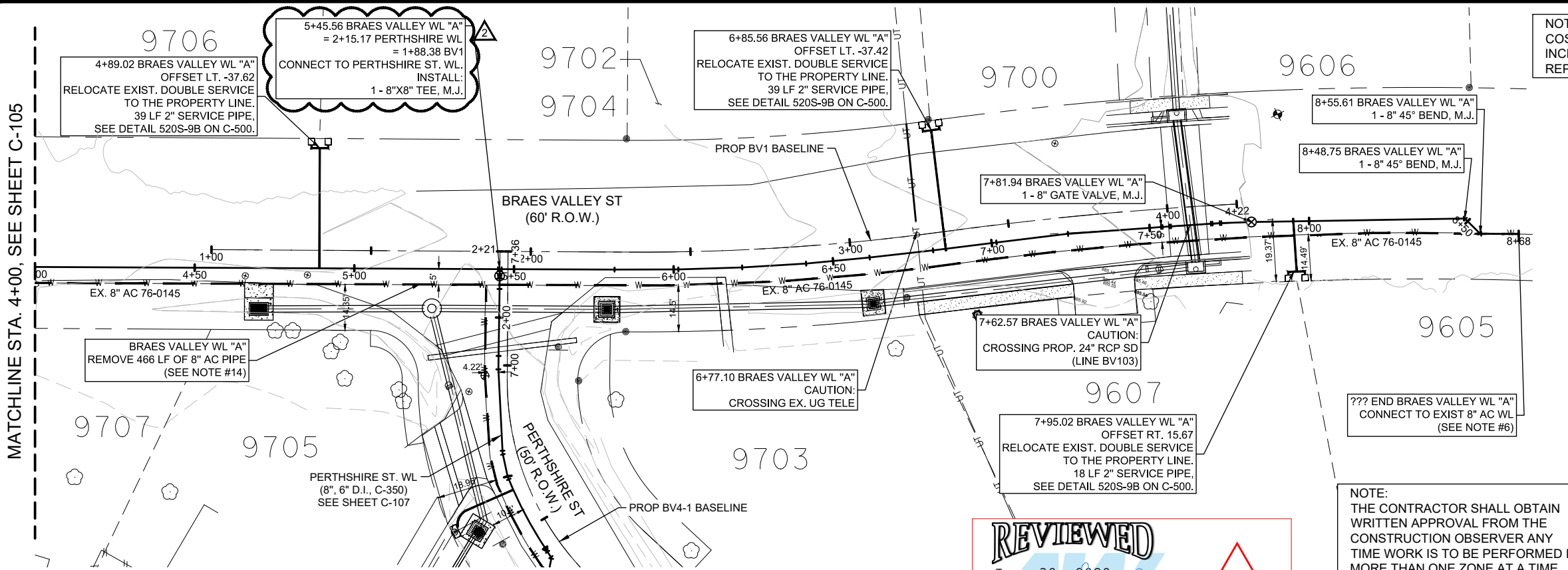
FOREST NORTH UTILITY RELOCATION - PHASE III
AUSTIN, TX

WILLIAMSON COUNTY
1848

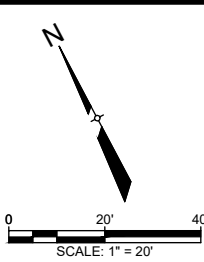
PROJ. NO. 1903-099-03-03
DESIGN: G. LITTLEFIELD
DRAWN: K. VAN HOOSIER
CHECK: J. HASTINGS
APPR: K. VAN HOOSIER
DATE: JUNE 17, 2020

KRISTEN VAN HOOSIER
136882
7/01/2020

SHEET
C-105
8 of 75



NOTE:
COST OF PIPE SHALL
INCLUDE PAVEMENT
REPAIRS PER DETAIL 510S-3



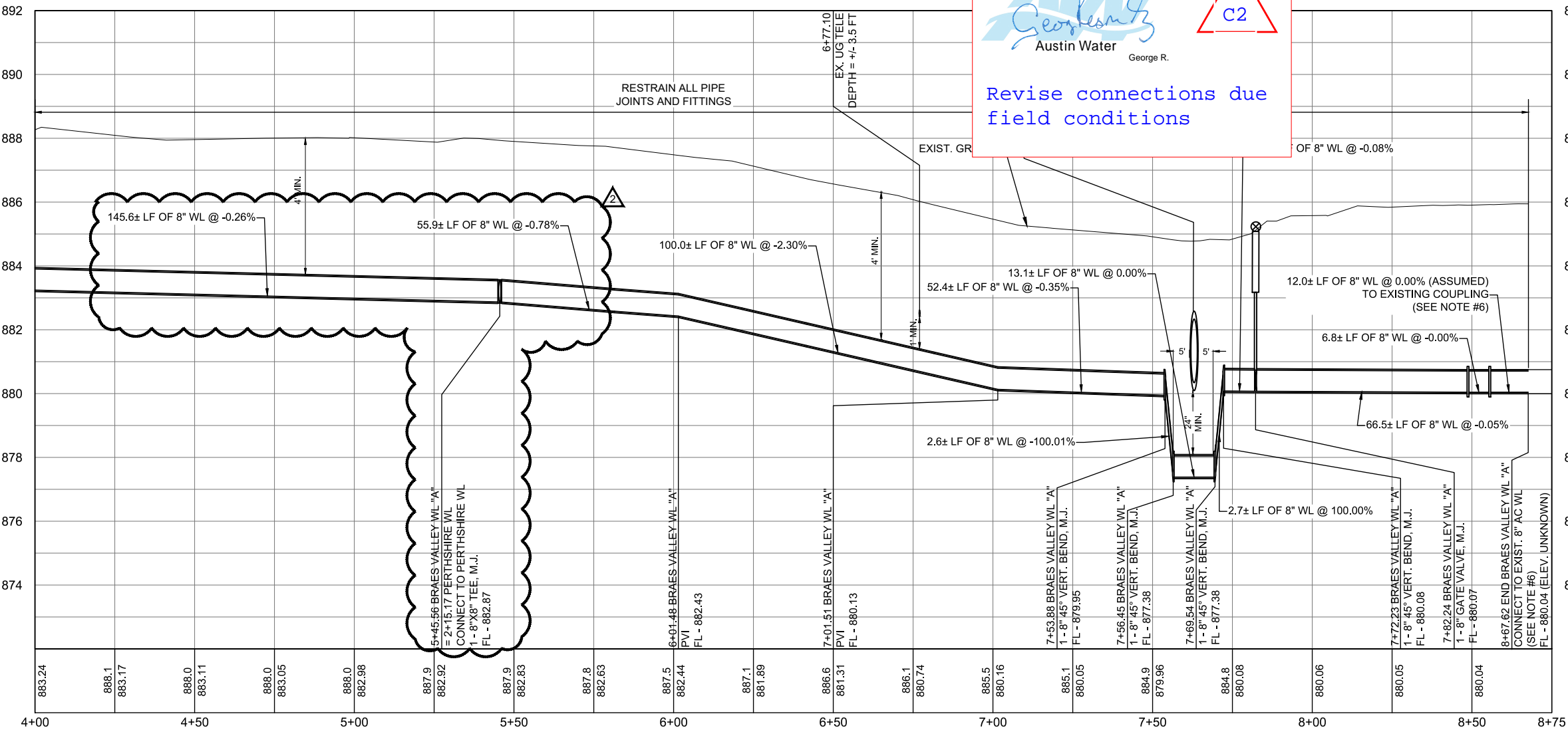
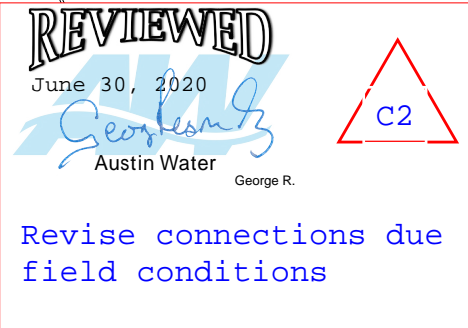
AWU GRID #G39-2
AWU INT #10516

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 - WASTE WATER MANHOLE
 - POWER POLE
 - WATER LINE
 - WASTE WATER LINE
 - UNDERGROUND TELEPHONE
 - OVERHEAD ELECTRIC



REV.	NO.	REVISION DESCRIPTION	DATE
1	1	CHANGED DESIGN DUE TO DR. CHANGE	2/10/2020
2	2	COMBINED BRAES VALLEY WL INTO ONE ALGN	3/18/2020
3	3	CHANGED PERTHSHIRE WL ALGN AND STATION	6/17/2020
4	4	DUE TO FIELD CONDITIONS	

CobbFendley
ENGINEERS, ARCHITECTS, PLANNERS
505 EAST MOUNTAIN DRIVE, SUITE 100
AUSTIN, TEXAS 78752
512.834.9798 | FAX 512.834.1727
WWW.COBBFENDLEY.COM

BRAES VALLEY WL "A" - STA. 4+00 TO END - PLAN & PROFILE

FOREST NORTH UTILITY RELOCATION - PHASE III
AUSTIN, TX

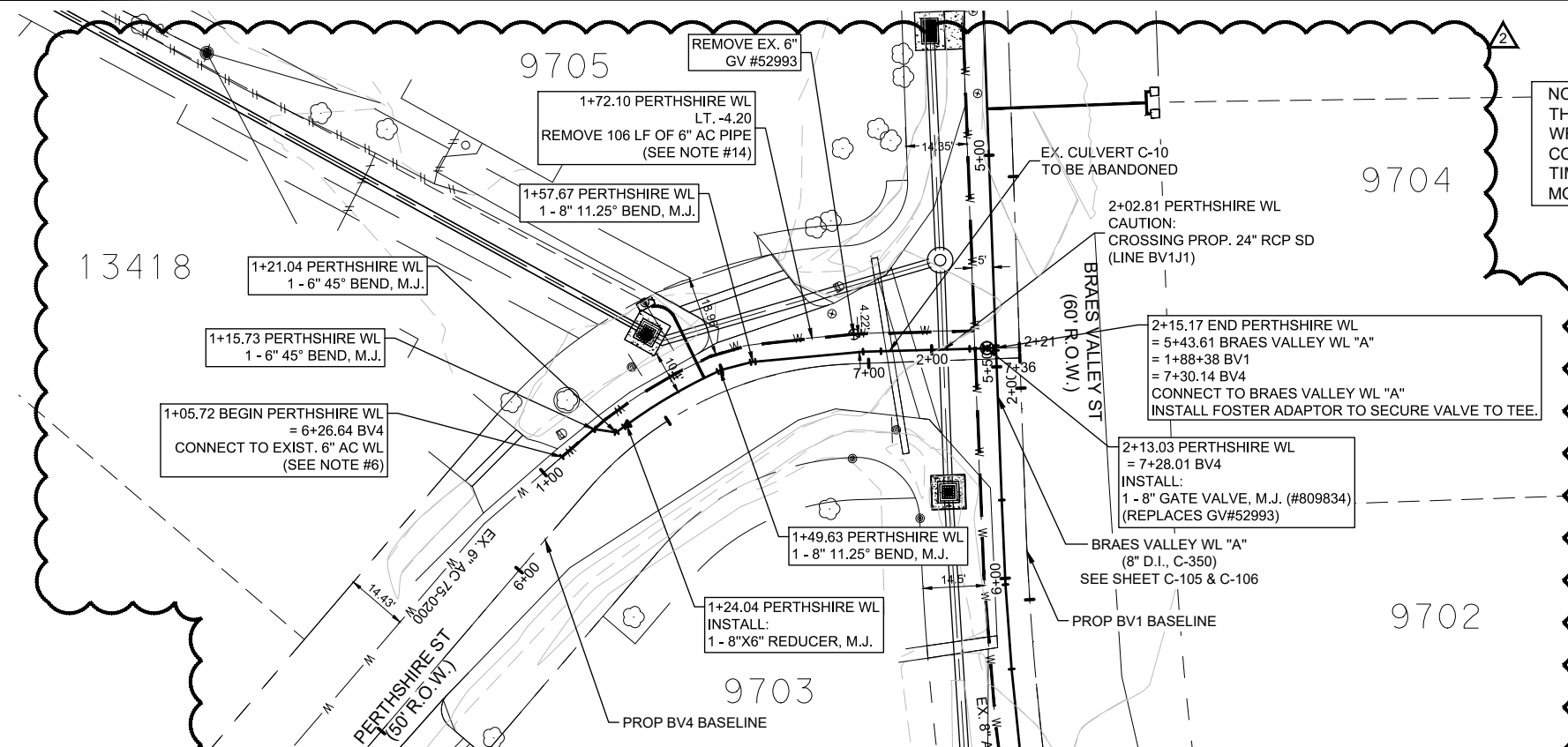
WILLIAMSON COUNTY
1848

PROJ. NO. 1903-099-03-03
DESIGN: G. LITTLEFIELD
DRAWN: K. VAN HOOSIER
CHECK: J. HASTINGS
APPR: K. VAN HOOSIER
DATE: JUNE 17, 2020

STATE OF TEXAS
KIRSTEN VAN HOOSIER
136882
JUNE 19, 2020

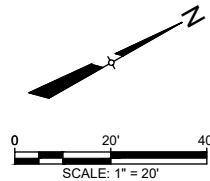
THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT.

SHEET
C-106
9 of 75



NOTE:
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WRITTEN APPROVAL FROM THE
CONSTRUCTION OBSERVER ANY
TIME WORK IS TO BE PERFORMED IN
MORE THAN ONE ZONE AT A TIME.










NOTE:
COST OF PIPE SHALL
INCLUDE PAVEMENT
REPAIRS PER DETAIL 510S-3

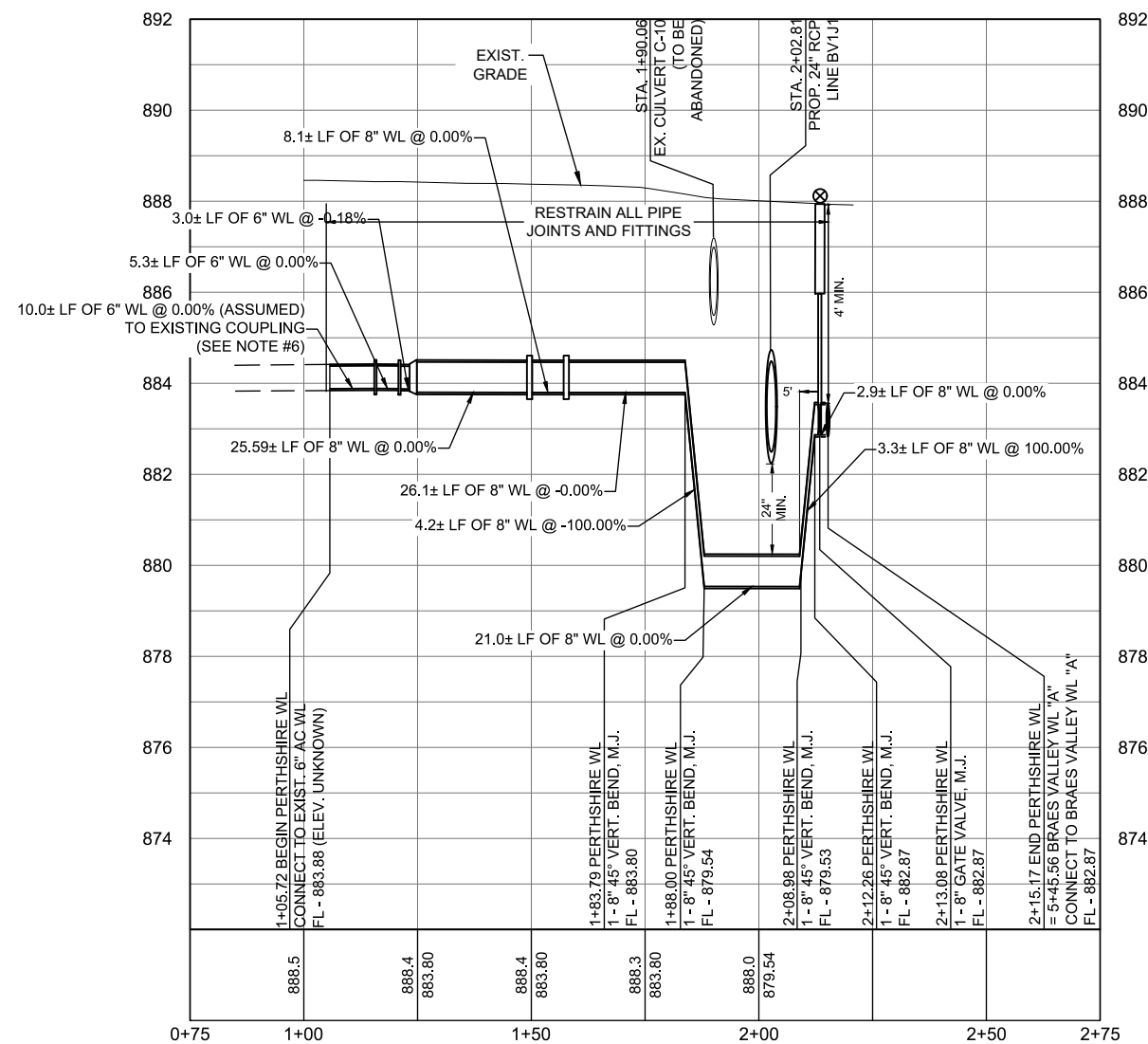


AWU GRID #G39-2
AWU INT #10516

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	WATER LINE
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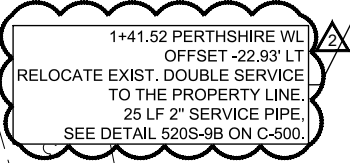


REVIEWED
June 30, 2020
George R. [Signature]
Austin Water
George R.

Revise connections due
field conditions










1281.7	EXISTING
<u> </u>	GRADE
1258.79	FLOW LINE
	OF PIPE

PROFILE SCALE
1"=20' HORIZ.
1"=2' VERT.



NOTE:
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INCLUDE PAVEMENT
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GENERAL NOTES:

- | | |
|---|-----------------------|
|  | WATER METER |
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WILLIAMSON
COUNTY

PROJ. NO. 1903-099-03-03
DESIGN: G. LITTLEFIELD
DRAWN: K. VAN HOOSIER
CHECK: J. HASTINGS
APPR: K. VAN HOOSIER
DATE: JUNE 17, 2020



2 June 19, 20

THESE DESIGN DOCUMENTS ARE NOT TO

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BE USED FOR CONSTRUCTION PRIOR TO
REGULATORY SIGNATURE AND PERMIT

SHEET

0.100

C-109

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