

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

1. CONTRACTOR: QA Construction Services, Inc.

2. Change Order Work Limits: Sta. 100+30.00 to Sta. 311+63.33

3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)

4. Reasons: 2E, 2C (3 Max. - In order of importance - Primary first)

Project:	<i>Ronald Reagan at Silver Spur & Sun City</i>
Roadway:	Safety Improvements
Project Number:	T1873

5. Describe the work being revised:

2E: Differing Site Conditions(unforeseeable). Miscellaneous difference in site conditions (unforeseeable). This Change Order provides the final balancing for the overrun/underrun of Contract quantities on the project as a result of addressing field conditions not accounted for in the original plans. **2C: Differing Site Conditions. New Development (conditions changing after PSE).** This Change Order adds new items to the contract to pay the Contractor for additional work. The added work includes, removing and replacing an existing flashing beacon assembly, milling and overlaying Silver Spur to maintain the existing profile and placing block sod in the center median of Silver Spur.

6. Work to be performed in accordance with Items: See attached.

7. New or revised plan sheet(s) are attached and numbered: N/A

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><i>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.</i></p> <p>THE CONTRACTOR Date 11-01-2021</p> <p>By <u>Major Davenport</u> <small>Digitally signed by Major Davenport DN: cn=Major Davenport, o.ou, email=major@terra-path.com, c=US Date: 2021.11.01 13:14:33 -05'00'</small></p> <p>Typed/Printed Name Major Davenport</p> <p>Typed/Printed Title Project Manager</p>	<p style="text-align: center;">The following information must be provided</p> <p>Time Ext. #: <u>1</u> Days added on this CO: <u>44</u></p> <p>Amount added by this change order: (\$29,746.06)</p>
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RECOMMENDED FOR EXECUTION:

Project Manager Date 11/1/2021

N/A

Design Engineer Date

Program Manager Date 11/2/2021

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

Design Engineer's Seal:

County Judge Date

APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

Project # T1873

TABLE B: Contract Items (Continued)

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	
RONALD REAGAN AT SILVER SPUR									
666-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF	\$10.00	62.0	\$620.00	58.00	120.00	\$1,200.00	\$580.00
666-6141	REFL PAV MRK TY I (Y) 12" (SLD) (100 MIL)	LF	\$13.00	62.0	\$806.00	(10.00)	52.00	\$676.00	(\$130.00)
672-6007	REFL PAV MRKR TY I-C	EA	\$3.00	85.0	\$255.00	72.00	157.00	\$471.00	\$216.00
672-6009	REFL PAV MRKR TY II-A-A	EA	\$3.25	280	\$910.00	(82.00)	198.00	\$643.50	(\$266.50)
3076-6066	TACK COAT	GAL	\$3.68	1,964.0	\$7,227.52	(764.00)	1,200.00	\$4,416.00	(\$2,811.52)
6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	\$115.00	60.0	\$6,900.00	(60.00)	0.00	\$0.00	(\$6,900.00)
999-WC01	FORCE ACCOUNT	DOL	\$1.00	12,500.0	\$12,500.00	(12,500.00)	0.00	\$0.00	(\$12,500.00)
999-WC02	REMOVE AND RELOCATE EXISTING FLASHING BEACON ASSEMBLY	LS	\$6,190.63	0.00	\$0.00	1.00	1.00	\$6,190.63	\$6,190.63
999-WC03	MILLING AND HOT MIX FOR PROFILE REVISION - SILVER SPUR	LS	\$13,390.05	0.00	\$0.00	1.00	1.00	\$13,390.05	\$13,390.05
999-WC04	BLOCK SOD IN CENTER MEDIAN - SILVER SPUR	LS	\$4,808.27	0.00	\$0.00	1.00	1.00	\$4,808.27	\$4,808.27
RONALD REAGAN AT SUN CITY									
666-6303	RE PM W/RET REQ TY I (W) 4" (SLD) (100 MIL)	LF	\$0.50	547.0	\$273.50	(245.00)	302.00	\$151.00	(\$122.50)
666-6030	REFL PAV MRK TY I (W) 8" (DOT) (100 MIL)	LF	\$1.40	75.0	\$105.00	58.00	133.00	\$186.20	\$81.20
666-6036	REFL PAV MRK TY I (W) 8" (SLD) (100 MIL)	LF	\$1.00	321.0	\$321.00	29.00	350.00	\$350.00	\$29.00
666-6315	RE PM W/RET REQ TY I (Y) 4" (SLD) (100 MIL)	LF	\$0.45	1,564	\$703.80	(62.00)	1,502.00	\$675.90	(\$27.90)
666-6170	REFL PAV MRK TY II (W) 4" (SLD)	LF	\$0.35	547.0	\$191.45	(238.00)	309.00	\$108.15	(\$83.30)
666-6176	REFL PAV MRK TY II (W) 8" (DOT)	LF	\$1.00	75.0	\$75.00	54.00	129.00	\$129.00	\$54.00
666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF	\$0.90	321.0	\$288.90	30.00	351.00	\$315.90	\$27.00
666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	\$0.35	1,564	\$547.40	8.00	1,572.00	\$550.20	\$2.80
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	\$1.20	602	\$722.40	(162.00)	440.00	\$528.00	(\$194.40)
999-WC01	FORCE ACCOUNT	DOL	\$1.00	12,500.00	\$12,500.00	(12,500.00)	0.00	\$0.00	(\$12,500.00)
The "Totals" from Table B of the previous work sheet:					\$395,226.92			\$375,638.03	(\$19,588.89)
TOTALS					\$440,173.89			\$410,427.83	(\$29,746.06)

CHANGE ORDER REASON(S) CODE CHART

<p>1. Design Error or Omission</p>	<p>1A. Incorrect PS&E 1B. Other</p>
<p>2. Differing Site Conditions (unforeseeable)</p>	<p>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</p>
<p>3. County Convenience</p>	<p>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</p>
<p>4. Third Party Accommodation</p>	<p>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</p>
<p>5. Contractor Convenience</p>	<p>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</p>
<p>6. Untimely ROW/Utilities</p>	<p>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</p>

Williamson County Road Bond Program

**Ronald Reagan at Silver Spur and Sun City
Williamson County Project No. T1873**

**Change Order No. 1
Reason for Change**

This Change Order provides the final balancing for the overrun/underrun of Contract quantities on the project as a result of addressing field conditions not accounted for in the original plans. This Change Order also adds new items to the contract to pay the Contractor for additional work. The added work includes:

999-WC02 Remove and Replace an Existing Flashing Beacon Assembly. The existing flashing beacon was located within the limits of the roadway widening. It was relocated to a location outside the limits of construction.

999-WC03 Milling and Hot Mix for profile revision at Silver Spur. The existing profile of Silver Spur did not match the profile shown in the plans. The proposed profile was modified to match the existing profile and minimize work in the intersection. The modification took place on the departure side of the entrance and the roadway had to be closed to allow the Contractor a safe work zone to complete the work.

999-WC04 Place Block Sod in Center Median of Silver Spur. Trenching for the power service to the new illumination pole and modifications to match the existing profile of Silver Spur disturbed the vegetation in the center median. The existing vegetation was buffalo grass. The median area was re graded and buffalo block sod was replaced.

The following new items are required for this change order:

ITEM	DESCRIPTION	QTY	UNIT
999-WC02	REMOVE AND RELOCATE EXISTING FLASHING BEACON ASSEMBLY	1.00	LS
999-WC03	MILLING AND HOT MIX FOR PROFILE REVISION AT SILVER SPUR	1.00	LS
999-WC04	BLOCK SOD IN CENTER MEDIAN OF SILVER SPUR	1.00	LS

This Change Order results in a net decrease of \$29,746.06 to the Contract amount, for an adjusted Contract total of \$845,603.94. The original Contract amount was \$875,350.00. As a result of this and all Change Orders to-date, \$29,746.06 has been deducted from the Contract, resulting in an 3.40% net decrease in the overall Contract cost. As a result of this Change Order, forty four (44) days will be added to the contract for a total duration of 172 days.

HNTB Corporation

Oscar Salazar-Bueno, P.E.



QA Construction Services Inc.
5811 Blue Bluff Road
Austin, TX 78724
Phone: 512-637-6120

7/29/2021

Change Order #1

ITEM 999-WC02

Project: Ronald Reagan Intersection
Owner: Williamson County

Additional Work - Remove & Relocate Existing Solar Flash Beacon

1 -

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE	TOTAL PRICE
N/A	Excavator	Day	1	\$ 1,035.00	\$ 1,035.00 ✓
	Mini Excavator	Day	1	\$ 575.00	\$ 575.00 ✓
	Wheel Loader	Day	1	\$ 845.00	\$ 845.00 ✓
	Hammer Breaker	Day	1	\$ 820.00	\$ 820.00 ✓
	Labor - Superintendent (Ryan Helm)	HR	4	\$ 42.00	\$ 168.00
	Labor - Foreman (Christian Figueroa)	HR	6	\$ 36.00	\$ 216.00
	Labor - Operator 1 (Reinaldo Figueroa)	HR	8	\$ 28.00	\$ 224.00
	Labor - Operator 2 (Erick Estrada/Reinaldo Figueroa)	HR	3	\$ 28.00	\$ 84.00
	Labor - General Labor 1 (Miguel Echevarria)	HR	8	\$ 25.00	\$ 200.00
	Labor - General Labor 2 (Adan)	HR	8	\$ 25.00	\$ 200.00
	Labor - General Labor 3 (Alfredo)	HR	8	\$ 25.00	\$ 200.00
Total Cost (Material & Labor)					
		Cost		Overhead	
Total Material Cost	\$ -	0%	\$ -		
Equipment	\$ 3,275.00	15%	\$ 491.25		\$ 3,766.25
Labor	\$ 1,292.00	55%/15%	\$ 910.74		\$ 2,302.99
				Overhead Cost	\$ 6,069.24
				Subtotal	\$ 6,069.24
				Mark-up	15%
				Insurance & Bond Adjustments	2%
					\$ 121.39
				Total Cost	\$ 6,190.63

Breakdown:

1 -

Additional Work - Remove & Relocate Existing Solar Flash Beacon

\$ 6,190.63

Total Cost for Change Order No.1 \$ 6,190.63

By Contractor:

Jose Ruiz, Estimator/ Project Manager - QA Construction Services Inc.

7/29/2021
Date

Approved by:

Construction Observer: Clayton Weber, HNTB

Date

Program Manager: Michael Weaver, Prime Strategies

Date

Senior Director of Infrastructure: Robert B. Dalgh, Williamson County

Date

LABOR \$ 1292.00
x 1.55 = 2002.60
x 1.15 = 2302.99
EQUIPMENT \$ 3275.00
x 1.15 = 3766.25

\$ 2302.99
\$ 3766.25
6069.24
x 1.02 \$ 6190.63



Cat Class: 054-0500

50-59K Hydraulic Excavator

- Maximum digging depths of up to 25 feet
- Peak reach of 33 feet
- Maximum lift capacity of 55,736 lbs.
- Wide selection of general-purpose buckets available

Online Rate:

1 Day. **\$1,035 USD** 1 Week. **\$2,555 USD** 4 Weeks. **\$5,430 USD**



Cat Class: 035-0157

13,000lb Mini Excavator Cab

- Fully enclosed cab
- Peak digging force of 4,766 lbs
- Maximum digging depth of nearly 8 1/2 feet with nearly 14 feet of reach
- Backfill blade for leveling and stabilizing
- Rubber tracks reduce damage to hard surfaces

Online Rate:

1 Day: \$575 USD 1 Week: \$1,585 USD 4 Weeks: \$4,770 USD



Cat Class: 057-0006

2-3/4 - 3 Yd Artic Loader

- Up to 40° frame articulation
- 4-wheel drive
- Up to 2-3/4 cubic yard bucket
- Max Dump Height: 8' 11" in.
- Max Weight 23,900 lbs.

Online Rate:

1 Day: \$845 USD 1 Week: \$2,245 USD 4 Weeks: \$4,365 USD



Cat Class: 005 0750

Hydraulic Hammer - 45K - 50K Excavator

The 45K - 50K demolition breaker is designed to be mounted on an excavator using the carrier's hydraulic system for power and are effective for breaking up rock, concrete or other materials.

- Hydraulic demolition breaker
- Mount on 45K - 50K excavator
- Effective for breaking up rock, concrete and other materials

Online Rate:

- 1 Day: **\$820 USD**
- 1 Week: **\$2,430 USD**
- 4 Weeks: **\$6,825 USD**

The displayed rates do not include the taxes or optional charges that may be selected later in the checkout process.

1

ADD



QA Construction Services Inc.
 5811 Blue Bluff Road
 Austin, TX 78724
 Phone: 512-637-6120

7/29/2021

Change Order #2

ITEM 999-WCO 3

Project: Ronald Reagan Intersection
 Owner: Williamson County

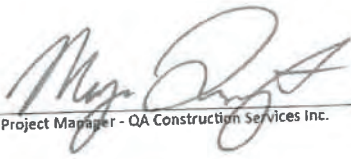
Additional Work - Milling & Traffic Control at Silver Spur & Ronald Reagan Intersection

1 -

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE	TOTAL PRICE
		SY	89	\$ 42.04	\$ 3,741.56
Force Account	PLANE ASPH CONC PAV (10")	HR	10	\$ 42.00	\$ 420.00
	Labor - Superintendent (Ryan Helm)	HR	10	\$ 36.00	\$ 360.00
	Labor - Foreman (Christian Figueroa)	HR	10	\$ 25.00	\$ 250.00
	Labor - General Labor 1 (Miguel Echevarria)	HR	10	\$ 25.00	\$ 250.00
	Labor - General Labor 3 (Alfredo)	HR	10	\$ 25.00	\$ 250.00
	Labor - General Labor (Omar)	HR	10	\$ 25.00	\$ 250.00
	Labor - General Labor (Eugenio)	HR	8.5	\$ 30.00	\$ 255.00
	Surveyor-Joe	HR	8.5	\$ 30.00	\$ 255.00
	Surveyor-Hugo	HR	4	\$ 156.31	\$ 625.24
	Blade	HR	8	\$ 48.43	\$ 387.44
	Skidster	HR	4	\$ 55.38	\$ 221.52
	Roller	DAY	1	\$ 845.00	\$ 845.00
	Loader	LS	1	\$ 120.00	\$ 120.00
	Light Tower-5/4	LS	1	\$ 1,050.00	\$ 1,050.00
	Traffic Control-5/4	WK	2	\$ 200.00	\$ 400.00
	Arrow Board (Weekly)	WK	2	\$ 394.00	\$ 788.00
	Barricades Sign & Traffic Handling				
Total Cost (Material & Labor)					
Cost Overhead					
Total Material Cost	\$	3,741.56	0%	\$	-
Equipment	\$	4,437.20	15%	\$	9,045.57
Labor	\$	2,290.00	55%/15%	\$	4,081.93
			Overhead Cost	\$	13,127.50
	Subtotal			\$	13,127.50
	Mark-up		15%		
	Insurance & Bond Adjustments		2%	\$	262.55
	Total Cost			\$	13,390.05

Breakdown:
 1 - Milling & Traffic Control at Silver Spur & Ronald Reagan Intersection \$ 13,390.05

Total Cost for Change Order No.1 \$ 13,390.05

By Contractor: 
 Major Davenport Project Manager - QA Construction Services Inc.
 Approved by: _____
 Construction Observer: Clayton Weber, HNTB
 Program Manager: Michael Weaver, Prime Strategies
 Senior Director of Infrastructure: Robert B. Dalgh, Williamson County

7/29/2021
 Date
 Date
 Date
 Date

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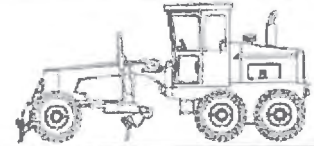
All prices shown in US dollars (\$)

July 16, 2021

Rental Rate Blue Book®

Caterpillar 14M (disc. 2015)
Articulated Frame Graders

Size Class:
250 HP & Over
Weight:
46796 lbs



Configuration for 14M (disc. 2015)

Moldboard Size **14.0 ft** Operator Protection EROPS
Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly USD \$75.30	FHWA Rate** Hourly USD \$168.43
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$16,390.00	USD \$4,590.00	USD \$1,150.00	USD \$175.00		
Adjustments						
Region (Texas: 92.7%)	(USD \$1,196.47)	(USD \$335.07)	(USD \$83.95)	(USD \$12.77)		
Model Year (2008: 94.07%)	(USD \$900.92)	(USD \$252.30)	(USD \$63.21)	(USD \$9.62)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					USD \$75.30	
Total:	USD \$14,292.61	USD \$4,002.63	USD \$1,002.84	USD \$152.61		USD \$156.51

Non-Active Use Rates

	Hourly
Standby Rate	USD \$40.60
Idling Rate	USD \$108.31

Rate Element Allocation

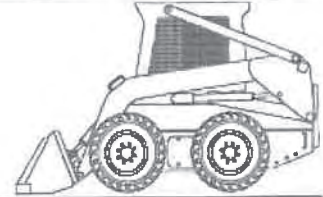
Element	Percentage	Value
Depreciation (ownership)	34%	USD \$5,572.60/mo
Overhaul (ownership)	51%	USD \$8,358.90/mo
CFC (ownership)	3%	USD \$491.70/mo
Indirect (ownership)	12%	USD \$1,966.80/mo
Fuel (operating) @ USD 3.27	36%	USD \$27.10/hr

Revised Date: 3rd quarter 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for CLAYTON WEBER
(cweber@hntb.com)

Rental Rate Blue Book®
Caterpillar 262D
 Skid Steer Loaders

 Size Class:
2501 - 2900 lbs
 Weight:
N/A

Configuration for 262D

 Hydraulic Tank Capacity
 Power Mode

10.3 gal
Diesel

Operator Protection

ROPS
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$5,095.00	USD \$1,425.00	USD \$355.00	USD \$53.00	USD \$22.46	USD \$51.41
Adjustments						
Region (Texas: 89.7%)	(USD \$524.78)	(USD \$146.77)	(USD \$36.56)	(USD \$5.46)		
Model Year (2018: 99.9%)	(USD \$4.57)	(USD \$1.28)	(USD \$0.32)	(USD \$0.05)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
Total:	USD \$4,565.65	USD \$1,276.95	USD \$318.12	USD \$47.49	USD \$22.46	USD \$48.40

Non-Active Use Rates

 Standby Rate
 Idling Rate

Hourly

 USD \$12.97
 USD \$34.86

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	24%	USD \$1,222.80/mo
Overhaul (ownership)	66%	USD \$3,362.70/mo
CFC (ownership)	2%	USD \$101.90/mo
Indirect (ownership)	8%	USD \$407.60/mo
Fuel (operating) @ USD 3.27	40%	USD \$8.92/hr

Revised Date: 3rd quarter 2021

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 (cweber@hntb.com)

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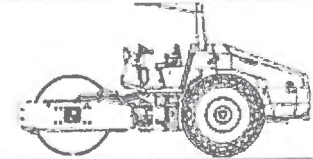
All prices shown in US dollars (\$)

July 16, 2021

Rental Rate Blue Book®

Hamm 3410 (disc. 2013)
Single Drum Vibratory Compactors

Size Class:
8.0 - 11.9 MTons
Weight:
22730 lbs



Configuration for 3410 (disc. 2013)

Drum Type **Smooth** Drum Width **84.0 in**
Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly USD \$35.24	FHWA Rate** Hourly USD \$57.31
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$3,885.00	USD \$1,090.00	USD \$275.00	USD \$41.00		
Adjustments						
Region (Texas: 96.4%)	(USD \$139.86)	(USD \$39.24)	(USD \$9.90)	(USD \$1.48)		
Model Year (2008: 94.67%)	(USD \$199.69)	(USD \$56.03)	(USD \$14.13)	(USD \$2.11)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					USD \$35.24	
Total:	USD \$3,545.45	USD \$994.73	USD \$250.97	USD \$37.42		USD \$55.38

Non-Active Use Rates

Standby Rate **Hourly** USD \$10.07
Idling Rate **Hourly** USD \$30.97

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	USD \$2,097.90/mo
Overhaul (ownership)	29%	USD \$1,126.65/mo
CFC (ownership)	3%	USD \$116.55/mo
Indirect (ownership)	14%	USD \$543.90/mo
Fuel (operating) @ USD 3.27	31%	USD \$10.83/hr

Revised Date: 3rd quarter 2021

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(cweber@hntb.com)



Cat Class: 057-0006

2-3/4 - 3 Yd Artic Loader

- Up to 40° frame articulation
- 4-wheel drive
- Up to 2-3/4 cubic yard bucket
- Max Dump Height: 8' 11" in.
- Max Weight 23,900 lbs.

Online Rate:

1 Day: **\$845 USD** 1 Week: **\$2,245 USD** 4 Weeks: **\$4,365 USD**

Price assumes milling 12" and hauling waste off site.



Texas Materials

1320 Arrow Point Drive, Suite 600
Cedar Park, TX. 78613

<u>Estimator</u>	Orion Fox	<u>Project Location</u>	Ronald Reagan
<u>Phone Number</u>	512-948-6924	<u>City</u>	Georgetown
<u>Control:</u>		<u>County</u>	Williamson
<u>Project:</u>	Ronald Reagan Blvd at Shell Road and Sun City Bl	<u>Plant Location</u>	Liberty Hill
<u>Job Number</u>	OF2010002CO		
<u>Date</u>	April 30, 2021		

Excludes Tax on Materials.
HMAC PER WILCO SPECS

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
9000	PLANE ASPH CONC PAV (12")	89.00	SY	42.04	3,741.56
GRAND TOTAL					3,741.56

NOTES:

- **Traffic Control excluded from quote.
- **Milling excluded from quote unless quoted as a bid item.

Terms are net 10th of the month. This quote is limited to acceptance within 30 days from the date of this quotation after which time quotation is subject to review and or revision. All courses preceding those to be paved by Texas Materials shall meet or exceed the governing specifications and also meet or exceed the ride specifications. If longitudinal joint location is critical or desired, they shall be laid out by the general contractor prior to the placement of any courses. This quote will become part of the subcontract agreement and shall supersede any other conflicting language in the subcontract agreement.

Prices on accepted quote are firm until 10/30/2021.

Inclusions:

1. Testing for HMAC QCQA items only.
2. Unless the words "Lump Sum" appear next to a price for an item, all prices are per unit, and payments will be based upon the actual number of units performed.
3. If a payment and performance bond is required add 1.5% to the overall bid price.
4. Three Mobilizations included. \$4,000 per each additional Mobilization.
5. Texas Materials to retain all production, ride and placement bonus/penalty on HMAC item(s) according to specification where applicable. The bonus/penalty calculations shall be based on Texas Materials unit prices or the unit bid prices whichever is greater.
6. General contractor to provide onsite staging area convenient to Texas Materials work for equipment, material storage, and equipment cleaning within the project limits.
7. Additional terms of this quote are based upon: acceptable contract/subcontract language, and credit approval

*****THIS IS NOT AN INVOICE*****

Prime Cont: Terra Path
 Highway:
 Project: Ronald Reagan at Silver Spur
 County: Williamson

APAC Job #: 560748

PERIOD
 From: 5/1/2021 To: 5/31/2021

Item	Description	CONTRACT				Change Order & Over (Underrun)		WORK PERFORMED					
		UM	\$/Unit	Quantity	Extension	Quantity	Extension	Previous		This Period		To Date	
								Quantity	Extension	Quantity	Extension	Quantity	Extension
10	PRIME COAT (AF-P)	GAL	\$3.92	1,170.00	\$4,586.40		\$0.00		\$0.00	725.00	\$2,842.00	725.00	\$2,842.00
20	AGGR (TY-B GR-S SAC-B)	CY	\$174.12	48.00	\$8,009.52		\$0.00		\$0.00	52.50	\$9,141.30	52.50	\$9,141.30
30	ASPH (AC-15P)	GAL	\$4.53	1,754.00	\$7,945.62		\$0.00		\$0.00	1200.00	\$5,436.00	1,200.00	\$5,436.00
40	D- GR HMA TY- B PG64 - 22	TON	\$70.42	1,809.00	\$123,305.78		\$0.00		\$0.00	1088.10	\$76,624.00	1,088.10	\$76,624.00
50	D - GR HMA TY- D PG70 - 22	TON	\$84.02	1,837.00	\$154,344.74		\$0.00		\$0.00	1800.04	\$151,239.36	1,800.04	\$151,239.36
60	PLANE ASPH CDNC PAV (0" TO 2")	SY	\$18.52	735.00	\$13,612.20		\$0.00		\$0.00	1793.49	\$33,215.43	1,793.49	\$33,215.43
70	TACK COAT	GAL	\$3.67	1,964.00	\$7,207.88		\$0.00		\$0.00	325.00	\$1,192.75	325.00	\$1,192.75
5000	MOBILIZATION	LS	\$13,000.00	1.00	\$13,000.00		\$0.00		\$0.00	1.00	\$13,000.00	1.00	\$13,000.00
9000	CO#1- PLANE ASPH CDNC PAV (12")	SY	\$42.04	0.00	\$0.00	89.00	\$3,741.56		\$0.00	89.00	\$3,741.56	89.00	\$3,741.56
800	CO#2- TY-B MIX	TON	\$61.00	0.00	\$0.00	59.84	\$3,650.24		\$0.00	59.84	\$3,650.24	59.84	\$3,650.24
					\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
					\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
					\$322,012.14		\$7,391.80		\$0.00		\$300,082.64		

Original Contract Amount.....	\$322,012.14	Total To Date.....	\$300,082.64
Revisions To Date.....	\$7,391.80	Less Retainage.....	\$0.00
Current Contract Amount.....	\$329,403.94	Earned To Date.....	\$300,082.64
		Less Previous Billings.....	\$0.00
		Total This Period.....	\$300,082.64

NOTES

*****THIS IS NOT AN INVOICE*****

RENTAL PROPOSAL



PROJECT INFORMATION
Wilco. Ronald Reagan Blvd
CONTROL#: □
PROJECT#: □
Bid Date: 4/28/21
SBE: 946781

ACME BARRICADES
8632 AMITY SCHOOL RD
BELTON, TEXAS 76513
512-379-2900 phone
512-379-2902 fax
Quote# 4J21-28

DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BARRICADES				
500 6001 Pilot Car Operation (4 men crew & a pilot truck) (10 hrs shift)	NIGHT	1.00	\$2,100.00	Plus Tax
Police Officer (Off duty or uniformed) (per hour per officer) (4 hrs minimum)	HR	1.00	\$75.00	Plus Tax
Light Tower (per each per day)	EA	1.00	\$120.00	Plus Tax
Deliver, setup and pickup of equipment (one time setup & one time pick up)	EA	1.00	\$1,050.00	Plus Tax
Equipment rental	DAY	1.00	\$150.00	Plus Tax
Subtotal				\$0.00
Sales Tax				\$0.00
Total				\$0.00

DESCRIPTION	UNIT	DAILY	WEEKLY	MONTHLY
EXTRAS				
1 ARROW BOARD	EA	\$70.00	\$200.00	\$600.00
2 MESSAGE BOARD	EA	\$200.00	\$700.00	\$1,800.00
3 TMA	EA	\$200.00	\$1,500.00	\$4,000.00
4 RUMBLE STRIPS	EA	\$200.00	\$500.00	\$1,600.00
* PRICING IS BASED ON CUSTOMER PICKUP FROM ACME YARD		(PLUS TAX)		

Notes:

Excludes removal, relocation or installation of pavement marking.
 Excludes design, engineering permits fines, bonds, or AGC dues
 Excludes rumble strips, WZ (RS)-14 & 16.
 Excludes daily monitoring of traffic control devices
 Excludes flagmen, pilot car operation or police officer - call for quote
 Excludes daily or nightly traffic control TCP sheets. Call for quote
 Excludes temporary bridge mounted clearance signs or large ground mount overhead signs
 Contractor is responsible for communicating written discrepancies within 24 hours of notice.
 Excludes permanent signs, water filled barrier, CTB, mailbox, signal, and MBGF
 Excludes edge line and centerline delineators.
 Excludes trailer mounted arrow board.
 Excludes ADA pedestrian ramp or covered walkway.
 Items not specifically noted will be additional

All material will be as specified herein. Any alterations or deviation from above specifications involving extra costs will be performed only upon written orders executed by the parties hereto and will become an extra charge over and above the cost referenced herein.
 Acceptance of Proposal – The above prices specifications and conditions are satisfactory and are hereby accepted. Lessor is authorized to do the work as specified. Payment will be made as outlined above. Acceptance of this Proposal is expressly limited to the terms herein.

Customer Signature

JAIME VIERA / ESTIMATOR

Date

Issue Date

RENTAL PROPOSAL



PROJECT INFORMATION
Wilco. Ronald Reagan Blvd
CONTROL#: □
PROJECT#: □
Bid Date: 10/2/20
SBE: 946781

ACME BARRICADES
8632 AMITY SCHOOL RD
BELTON, TEXAS 76513
512-379-2900 phone
512-379-2902 fax
Quote# 10J2-20

DESCRIPTION		UNIT	QNTY	RATE	AMOUNT
BARRICADES					
500 6001	MOBILIZATION	LS	1.00	\$1,661.00	\$1,661.00
	BARRICADES SIGNS AND TRAFFIC HANDLING	MO	6.00	\$788.00	\$4,728.00
	WILLIAMSON COUNTY BOND SINGS	EA	4.00	\$400.00	\$1,600.00
Subtotal					\$7,989.00
Sales Tax					\$659.09
Total					\$8,648.09

DESCRIPTION		UNIT	DAILY	WEEKLY	MONTHLY
EXTRAS					
1	ARROW BOARD	EA	\$70.00	\$200.00	\$600.00
2	MESSAGE BOARD	EA	\$200.00	\$700.00	\$1,800.00
3	TMA	EA	\$200.00	\$1,500.00	\$4,000.00
4	RUMBLE STRIPS	EA	\$200.00	\$600.00	\$1,600.00
* PRICING IS BASED ON CUSTOMER PICKUP FROM ACME YARD			(PLUS TAX)		

Notes:

- Includes perimeter barricades as per TXDOT BC (2) - 14 and channelizing devices.
- 2 weeks advance notice is require for installation of barricades.
- Excludes removal, relocation or installation of pavement marking.
- Excludes design, engineering permits fines, bonds, or AGC dues.
- Excludes rumble strips, WZ (RS)-14 & 16.
- Excludes daily monitoring of traffic control devices
- Excludes flagmen, pilot car operation or police officer - call for quote
- Excludes daily or nightly traffic control TCP sheets. Call for quote
- Excludes temporary bridge mounted clearance signs or large ground mount overhead signs.
- Contractor is responsible for communicating written discrepancies within 24 hours of notice.
- Excludes permanent signs, water filled barrier, CTB, mailbox, signal, and MBGF
- Excludes edge line and centerline delineators.
- Excludes trailer mounted arrow board.
- Excludes ADA pedestrian ramp or covered walkway.
- Items not specifically noted will be additional

All material will be as specified herein. Any alterations or deviation from above specifications involving extra costs will be performed only upon written orders executed by the parties hereto and will become an extra charge over and above the cost referenced herein.

Acceptance of Proposal – The above prices specifications and conditions are satisfactory and are hereby accepted. Lessor is authorized to do the work as specified. Payment will be made as outlined above. Acceptance of this Proposal is expressly limited to the terms herein.

Customer Signature _____

JAI ME VIERA / ESTIMATOR

Date _____

Issue Date _____



QA Construction Services Inc.
 5811 Blue Bluff Road
 Austin, TX 78724
 Phone: 512-637-6120

7/29/2021

Change Order #3

999-WCO 4

Project: Ronald Reagan Intersection
 Owner: Williamson County

Additional Work - SOD at Silver Spur & Ronald Reagan Intersection

1 -

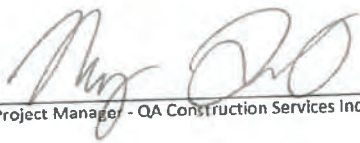
BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE	TOTAL PRICE
Force Account					
	Labor - Superintendent (Ryan Helm)	HR	4	\$ 42.00	\$ 168.00
	Labor - General Labor 3 (Ruperto)	HR	12	\$ 25.00	\$ 300.00
	Labor - General Labor (Edgar)	HR	12	\$ 25.00	\$ 300.00
	Labor - General Labor (Eugenio)	HR	4	\$ 48.43	\$ 193.72
	Skidster	DAY	1	\$ 700.00	\$ 700.00
	Loader	SF	4500	\$ 0.20	\$ 900.00
	SOD (Pallets)	EA	1	\$ 650.00	\$ 650.00
	SOD Delivery Charge				
Total Cost (Material & Labor)					
		Cost		Overhead	
Total Material Cost	\$	1,550.00	15%	\$	1,782.50
Equipment	\$	893.72	15%	\$	1,027.78
Labor	\$	1,068.00	55%/15%	\$	1,903.71
				Overhead Cost	\$ 4,713.99
				Subtotal	\$ 4,713.99
				Mark-up	15%
				Insurance & Bond Adjustments	2% \$ 94.28
				Total Cost	\$ 4,808.27

Breakdown:

1 - SOD at Silver Spur & Ronald Reagan Intersection

\$ 4,808.27

Total Cost for Change Order No.1 \$ 4,808.27

By Contractor: 
 Major Davenport Project Manager - QA Construction Services Inc.

7/29/2021
 Date

Approved by:
 Construction Observer: Clayton Weber, HNTB

Date

Program Manager: Michael Weaver, Prime Strategies

Date

Senior Director of Infrastructure: Robert B. Daigh, Williamson County

Date

Rental Rate Blue Book®

August 3, 2021

Caterpillar 262D
 Skid Steer Loaders

 Size Class:
2501 - 2900 lbs
 Weight:
 N/A

Configuration for 262D

Hydraulic Tank Capacity	10.3 gal	Operator Protection	ROPS
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$5,095.00	USD \$1,425.00	USD \$355.00	USD \$53.00	USD \$22.46	USD \$51.41
Adjustments						
Region (Texas: 89.7%)	(USD \$524.78)	(USD \$146.77)	(USD \$36.56)	(USD \$5.46)		
Model Year (2018: 99.9%)	(USD \$4.57)	(USD \$1.28)	(USD \$0.32)	(USD \$0.05)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$4,565.65	USD \$1,276.95	USD \$318.12	USD \$47.49	USD \$22.46	USD \$48.40

Non-Active Use Rates

	Hourly
Standby Rate	USD \$12.97
Idling Rate	USD \$34.86

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	24%	USD \$1,222.80/mo
Overhaul (ownership)	66%	USD \$3,362.70/mo
CFC (ownership)	2%	USD \$101.90/mo
Indirect (ownership)	8%	USD \$407.60/mo
Fuel (operating) @ USD 3.27	40%	USD \$8.92/hr

Revised Date: 3rd quarter 2021

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

 The equipment represented in this report has been exclusively prepared for CLAYTON WEBER
 (cweber@hntb.com)



Cat Class: 957-0006

2-3/4 - 3 Yd Artic Loader

- Up to 40° frame articulation
- 4-wheel drive
- Up to 2-3/4 cubic yard bucket
- Max Dump Height: 8' 11" in.
- Max Weight 23,900 lbs.

Online Rate:

1 Day: **\$845 USD** 1 Week: **\$2,245 USD** 4 Weeks: **\$4,365 USD**

Invoice

JOURDANTON FARMS
1228 COUNTY ROAD 303
JOURDANTON TX 78026
830-580-1410



Invoice# 172894
Invoice Date: 6/11/2021
Customer No: 2344270

Growing Quality for Generations

Sold To
QA CONSTRUCTION
5811 BLUE BLUFF RD
AUSTIN TX 78724-5930

LUPITA
210 300 2362

Ship To
MAJOR
202 YORKTOWN ST
GEORGETOWN TX 78633-2284

PO. 4012

Order Number	Delivery Date	Pick Up/Delivery	Customer PO#	Driver	KR BOL #
232570	06/12/2021	Delivered	4012 (5137)	RPS TRUCKING DRIVER	74130

Item Description	Quantity	Price	Per	Amount
TIFTUF BERMUDA 450SF PL	10.00 PL	4,500.00 SF	\$0.2000 Per SF	\$900.00
DELIVERY CHARGE	1.00 EA	1.00 EA	\$650.0000 Per EA	\$650.00

MAJOR
202 YORKTOWN ST
GEORGETOWN TX 78633-2284

Payment Description	Payment Date	Location	Applied Amount
Total Payments			

Notes

Total Sales Tax ~~\$104.63~~
Total Purchased ~~\$1,654.63~~
Total Refunds
Total Payments
Due On Invoice ~~\$1,654.63~~

Signature

If Payment Due, please remit to
KING RANCH TURFGRASS LP
PO BOX 733213
DALLAS TX 75373-3213

PAID

TOTAL
\$ 1550.00

6/12

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Terracon
5307 Industrial Oaks Blvd Ste 160
Austin, TX 78735-8821
512-442-1122 Reg No: F-3272

Report Number: AC201154.0013
Service Date: 05/20/21
Report Date: 07/16/21 Revision 3 - 56-day results
Task:

Client

QA Construction Services Inc
Attn: Ahmad Masoumi
5811 Blue Bluff Rd
Austin, TX 78724

Project

Ronald Reagan at Silver Spur and Sun City
Ronald Reagan Blvd and Sun City Blvd
Georgetown, TX

Project Number: AC201154

Material Information

Specified Strength: 3,600 psi @ 28 days

Mix ID: CC2160A
Supplier: Custom-Crete
Batch Time: 1600 Plant: N/A
Truck No.: 757 Ticket No.: 498304

Sample Information

Sample Date: 05/20/21 Sample Time: 1600
Sampled By: Spencer Blair
Weather Conditions: Clear
Accumulative Yards: N/A Batch Size (cy): 9.5
Placement Method: Direct Discharge
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Light pole pier at 110+68 51.00 RT
Placement Location: Light pole piers at 110+68, 110+00, 310+45

Field Test Data

Test	Result	Specification
Slump (in):	7	
Air Content (%):	2.7	
Concrete Temp. (F):	85	
Ambient Temp. (F):	82	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	A	4.00	12.57	05/27/21	05/27/21	7 F	77,560	6,170	2	PMC
1	B	4.00	12.57	05/27/21	06/17/21	28 F	104,370	8,310	2	PMC
1	C	4.00	12.57	05/27/21	06/17/21	28 F	103,140	8,210	2	PMC
1	D	4.00	12.57	05/27/21	06/17/21	28 F	102,830	8,180	2	PMC
1	E	4.00	12.57	05/27/21	07/15/21	56 F	114,540	9,110	1	PMC

Initial Cure: Outside

Final Cure: Water Storage Tank

Comments: Not tested for plastic unit weight. F = Field Cured

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete from the ready-mix truck (ASTM C172), perform required field test (ASTM C31) and cast compressive strength samples (ASTM C39).

Terracon Rep.: Spencer Blair

Reported To: HNTB Inspector

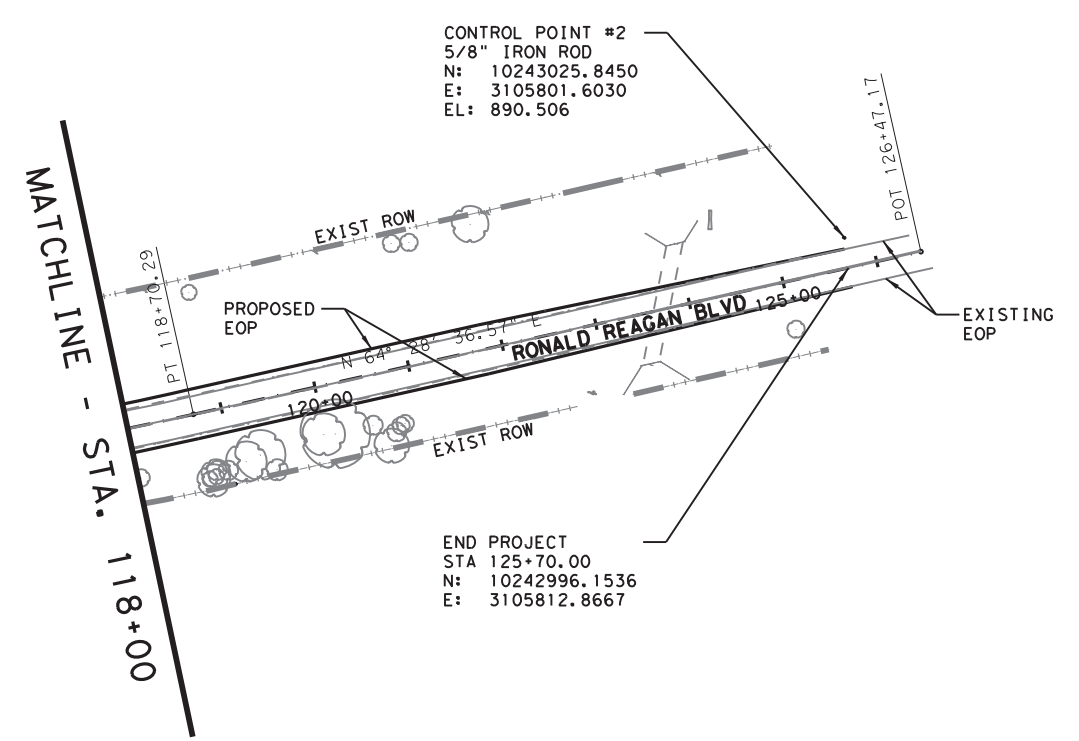
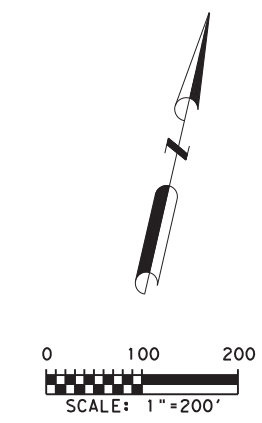
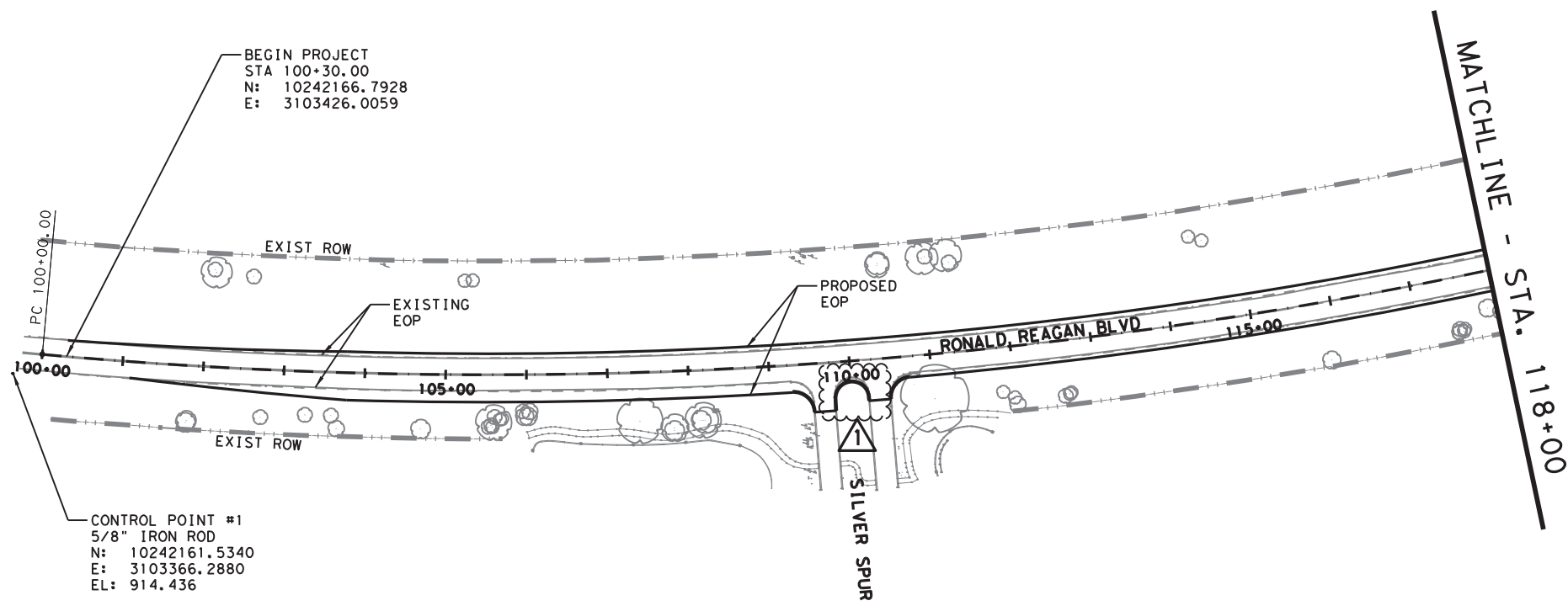
Contractor:

Report Distribution:

(1) QA Construction Services Inc, Ahmad Masoumi
(1) Terra Path Inc, Major Davenport
(1) Terra Path Inc, Ryan Helms

Test Methods: ASTM C 31, ASTM C39, ASTM C143, ASTM C172, ASTM C231, ASTM C1064

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



<* 1 DESCRIBE CHAIN RRWA2

Chain RRWA2 contains:
CUR RRWA21 RR02

Beginning chain RRWA2 description

		Curve Data		

Curve RRWA21				
P. I. Station	109+42.79	N	10,242,288.4392	E 3,104,330.6557
Delta	17° 51' 35.86"	(LT)		
Degree	0° 57' 17.75"			
Tangent	942.7917			
Length	1,870.2908			
Radius	6,000.0000			
External	73.6197			
Long Chord	1,862.7279			
Mid. Ord.	72.7273			
P. C. Station	100+00.00	N	10,242,162.7180	E 3,103,396.2840
P. T. Station	118+70.29	N	10,242,694.6656	E 3,105,181.4414
C. C.		N	10,248,109.1321	E 3,102,596.1846
Back	N 82° 20' 12.43"	E		
Ahead	N 64° 28' 36.57"	E		
Chord Bear	N 73° 24' 24.50"	E		

Course from PT RRWA21 to RR02 N 64° 28' 36.57" E Dist 776.8809
Point RR02 N 10,243,029.4050 E 3,105,882.5073 Sta 126+47.17

Ending chain RRWA2 description



Daniel G. Rogers

2/3/2021

DATE	BY	REV	REVISION
2/1/21	DR	1	EXTEND MEDIAN NOSE



wsb WSB & ASSOCIATES, INC.
FIRM # 16849

**RONALD REAGAN BLVD
AT SILVER SPUR BLVD**

**PROJECT
LAYOUT**

SURVEYOR'S NOTES:

- ALL PROJECT COORDINATES ARE BASED ON THE TEXAS COORDINATE SYSTEM, TEXAS CENTRAL ZONE, NAD 83 (2011) / NAVD 88. ALL COORDINATES SHOWN HEREON ARE SURFACE AND CAN BE CONVERTED TO GRID BY DIVIDING BY A SURFACE ADJUSTMENT FACTOR OF 1.00012. UNITS: U.S. SURVEY FEET
- CONTROL WAS ESTABLISHED USING GPS OBSERVATIONS PROCESSED WITH THE RTKNET VRS NETWORK.

DESIGN	BG	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET HIGHWAY NO.
QA	KW	5 RONALD REAGAN BLVD.

ROADWAY QUANTITIES SUMMARY												
RDWY SHEET NO.	100	110	132	247	310	316	316	340	340	529	3076	6001
	6002	6001	6003	6044	6005	6193	6413	6011	6120	6038	6066	6001
	PREPARING ROW	EXCAVATION (RDWY)	EMBANKMENT (FINAL) (ORD COMP) (TY B)	FL BS (CMP IN PLACE) (TY A GR 4) (FNAL POS)	PRIME COAT (AE-P)	AGGR (TY-D GR-5 SAC-B)	ASPH (AC-15P, HFRS-2P or CRS-2P)	D-GR HMA(SQ) TY-B PG64-22	D-GR HMA(SQ) TY-D SAC-B PG70-22	CONC CURB (RIBBON)	TACK COAT	PORTABLE CHANGEABLE MESSAGE SIGN
	STA	CY	CY	CY	GAL	CY	GAL	TON	TON	LF	GAL	DAY
1 OF 3	10.7	3193	537	1520	576	23	864	794	788	178	876	
2 OF 3	10.0	2380	1253	1145	434	17	651	598	672		721	
3 OF 3	4.7	565	684	394	150	6	224	202	286		291	
SUN CITY									84		66	
TOTAL	25.4	6138	2474	3059	1160	46	1739	1594	1830	178	1954	60

REMOVAL SUMMARY				
REMOVAL SHEET	103	104	354	677
	6001	9999	6021	6001
	DISPOSAL OF WATER WELLS	REMOVING CONC (RIBBON CURB)	PLANE ASPH CONC PAV(0" TO 2")	ELIMEXT PAV MRK & MRKS (4")
	EA	LF	SY	LF
SILVER SPUR	1	205		
SUN CITY			735	602
TOTAL	1	205	735	602

EROSION CONTROL QUANTITIES SUMMARY															
EROSION CONTROL SHEET NO.	160	161	162	134	164	164	166	168	169	506	506	506	506	506	506
	WC02	WC001	WC103	WC04	WC05	WC10	6002	WC01	6001	6002	6011	6020	6024	6038	6039
	FURNISHING AND PLACING TOPSOIL (4")	EROSION CONTROL COMPOST (3")	MULCH TOPDRESSING (5")	SEEDING FOR EROSION CONTROL (TEMP) (COOL) (TY 4)	SEEDING FOR EROSION CONTROL (PERM) (WARM) (TY 5)	SEEDING FOR EROSION CONTROL (TEMP) (WARM) (TY 10)	FERTILIZER	VEGETATIVE WATERING	SOIL RETENTION BLANKETS (CL 1) (TY A)	ROCK FILTER DAMS (INSTALL) (TY 2)	ROCK FILTER DAMS (REMOVE)	CONSTRUCTION EXITS (INSTALL) (TY 1)	CONSTRUCTION EXITS (REMOVE)	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)
	SY	SY	SY	SY	SY	SY	TON	MG	SY	LF	LF	SY	SY	LF	LF
1 OF 2	13363	3341	3341	6682	13363	6682	0.84	400.9	6132	60	60	78	78	300	300
2 OF 2	4162	1041	1041	2081	4162	2081	0.27	124.9	2353	167	167	78	78	40	40
TOTAL	17525	4382	4382	8763	17525	8763	1.11	525.8	8485	227	227	156	156	340	340

FLASHING BEACON QUANTITIES SUMMARY												
FLASHING BEACON SHEET NO.	416	416	610	618	624	680	682	682	684	684	686	6064
	6029	6032	6215	6023	6001	WC01	6003	6005	6001	6010	6007	6080
	DRILL SHAFT (RDWY ILL POLE) (30 IN)	DRILL SHAFT (TRF SIG POLE) (36 IN)	IN RD IL (TY SA) 40T-8-8 (250W EQ) LED	COND (PVC) (SCH 40) (2")	GROUND BOX TY A (122311)	INSTALL HWY TRF SIG (FLASH BEACON) (SOLAR)	VEH SIG SEC (12") LED (YEL)	VEH SIG SEC (12") LED (RED)	TRF SIG CBL (TY A)(10 AWG)(2 CONDR)	TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	INS TRF SIG PL AM (S)STR(TY B)	ITS POLE MNT CAB (TY 2)(CONF 1)
	LF	LF	EA	LF	EA	EA	EA	EA	LF	LF	EA	EA
SILVER SPUR	8	28	1	10	1	1	4	2	20	110	2	1
SUN CITY		28				1	4	2	20	130	2	1
TOTAL	8	56	1	10	1	2	8	4	40	240	4	2

SIGNING & PAVEMENT MARKINGS SUMMARY													
SIGNING & PAVEMENT MARKINGS SHEET NO.	644	644	644	666	666	666	666	666	666	666	666	672	672
	6060	6068	6071	6303	6030	6036	6054	6078	6315	6141	60C7	6009	
	INS SMRD SN SUP & AM TYTWT(1) WS(P)	RELOCATE SM RD SN SUP & AM TY 10BWG	RELOCATE SM RD SN SUP & AM TY TWT	RE PMW/RET REQ TY I (W) 4" (SLD) (100 MIL)	REFL PAV MRK TY I (W) 8" (DOT) (100 MIL)	REFL PAV MRK TY I (W) 8" (SLD) (100 MIL)	REFL PAV MRK TY I (W) (ARROW) (100 MIL)	REFL PAV MRK TY I (W) (WORD) (100 MIL)	RE PMW/RET REQ TY I (Y) 4" (SLD) (100 MIL)	REFL PAV MRK TY I (Y) 12" (SLD) (100 MIL)	REFL PAV MRKR TY I-C	REFL PAV MRKR TY II-A-A	
	EA	EA	EA	LF	LF	LF	EA	EA	LF	LF	EA	EA	
1 OF 3	1	1	1	4010	218	1704	4	4	3880		85	194	
2 OF 3				940	20				1720	62		86	
3 OF 3	2			547	75	321			1564		13	80	
TOTAL	3	1	1	5497	313	2025	4	4	7164	62	98	360	

SIGNING & PAVEMENT MARKINGS SHEET NO.	666	666	666	666	666	666
	6170	6176	6178	6184	6192	6207
	REFL PAV MRK TY II (W) 4" (SLD)	REFL PAV MRK TY II (W) 8" (DOT)	REFL PAV MRK TY II (W) 8" (SLD)	REFL PAV MRK TY II (W) (ARROW)	REFL PAV MRK TY II (W) (WORD)	REFL PAV MRK TY II (Y) 4" (SLD)
	LF	LF	LF	EA	EA	LF
1 OF 3	4010	218	1704	4	4	3880
2 OF 3	940	20				1720
3 OF 3	547	75	321			1564
TOTAL	5497	313	2025	4	4	7164

DATE	BY	REV	REVISION
9-30-20	DR	1	ADJUST DITCHES
10-5-20	JT	2	ILLUMINATION BID NO. & SOLAR
10-27-20	DR	3	ADD ITEM 103, DISPOSAL OF WELL
2/1/21	DR	4	EXTEND MEDIAN NOSE



WILLIAMSON COUNTY PRECINCT #3

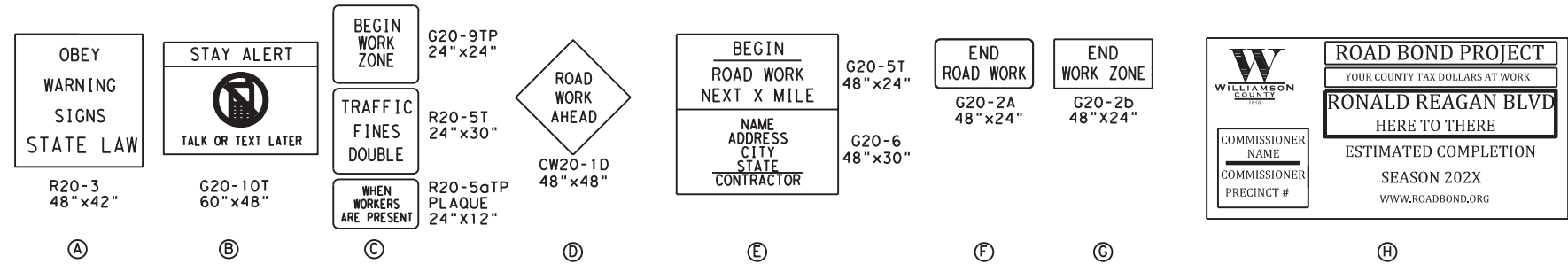
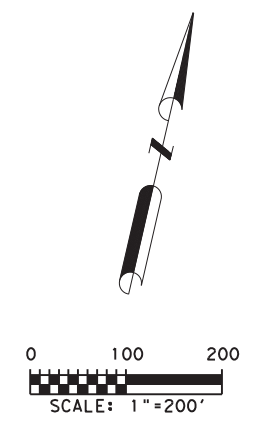
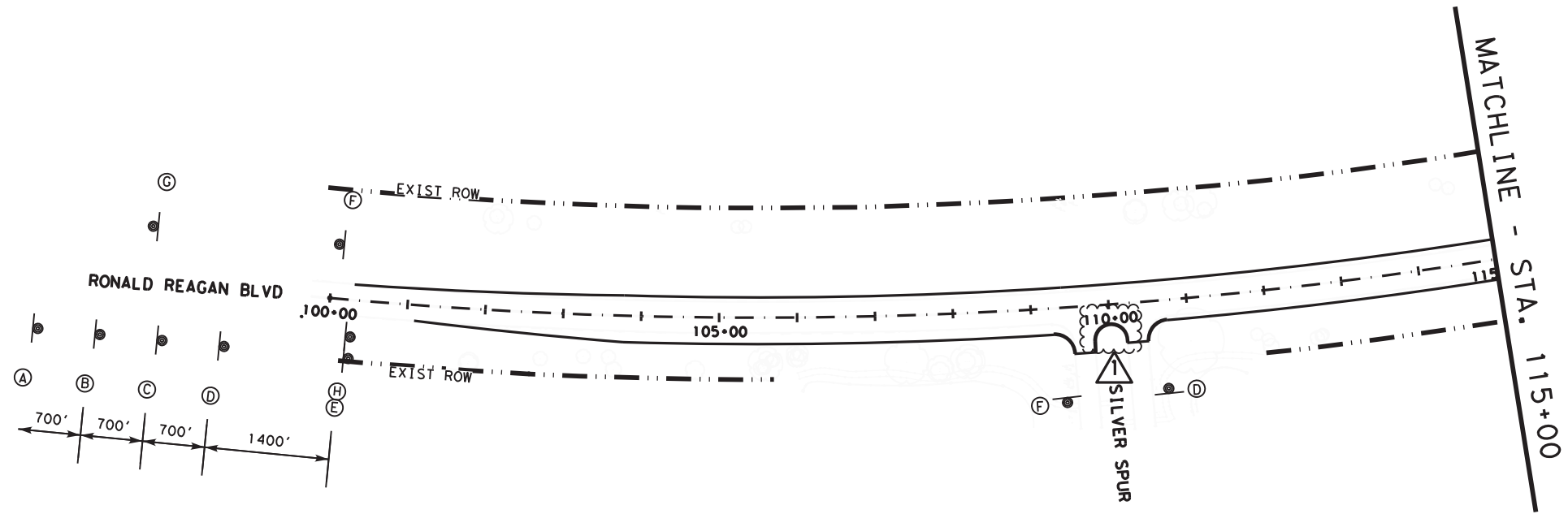
wsb WSB & ASSOCIATES, INC. FIRM # 16849

RONALD REAGAN BLVD AT SILVER SPUR BLVD AND SUN CITY BLVD

SUMMARY OF QUANTITIES

SHEET 1 OF 1

DESIGN	BG	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET
QA	KW	9
HIGHWAY NO.		
RONALD REAGAN BLVD.		



WC-PS1
96"x48"



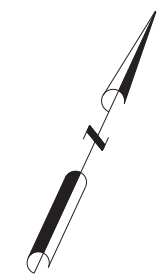
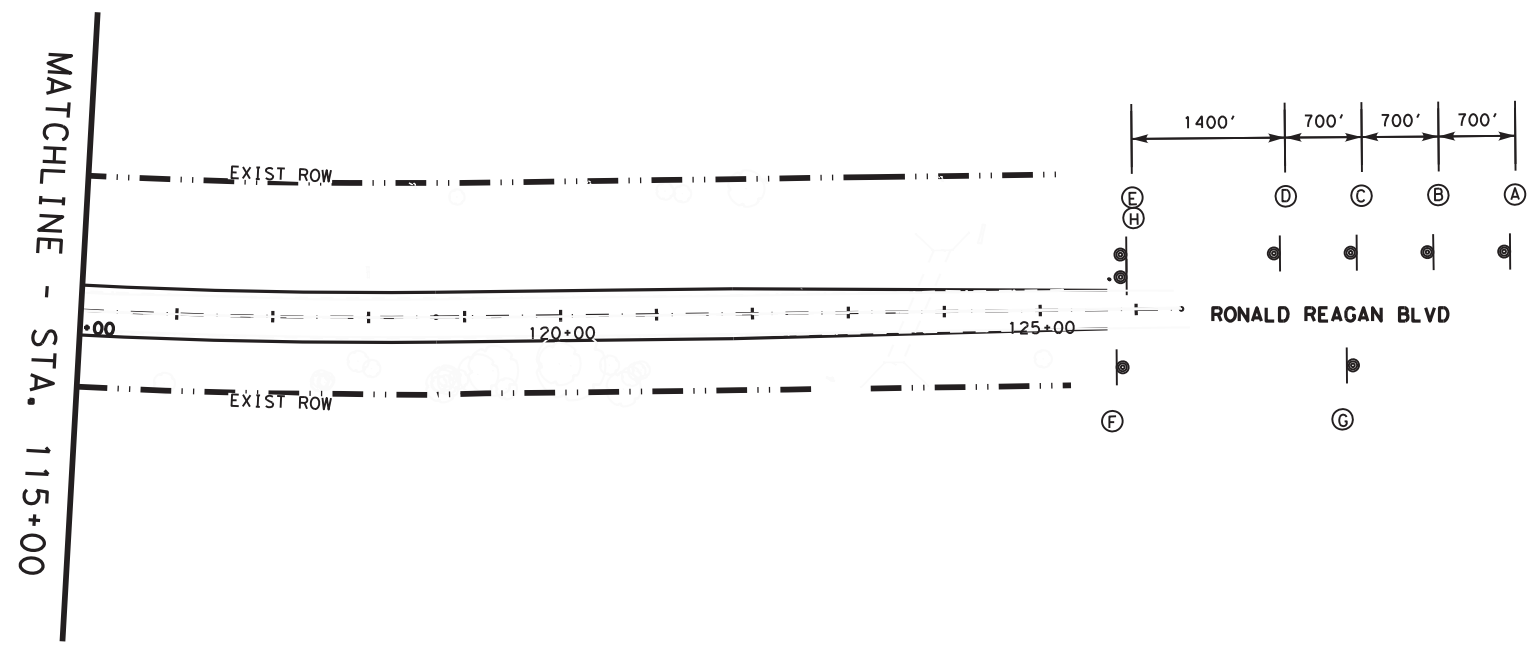
Daniel G. Rogers

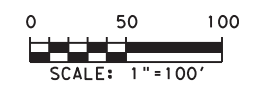
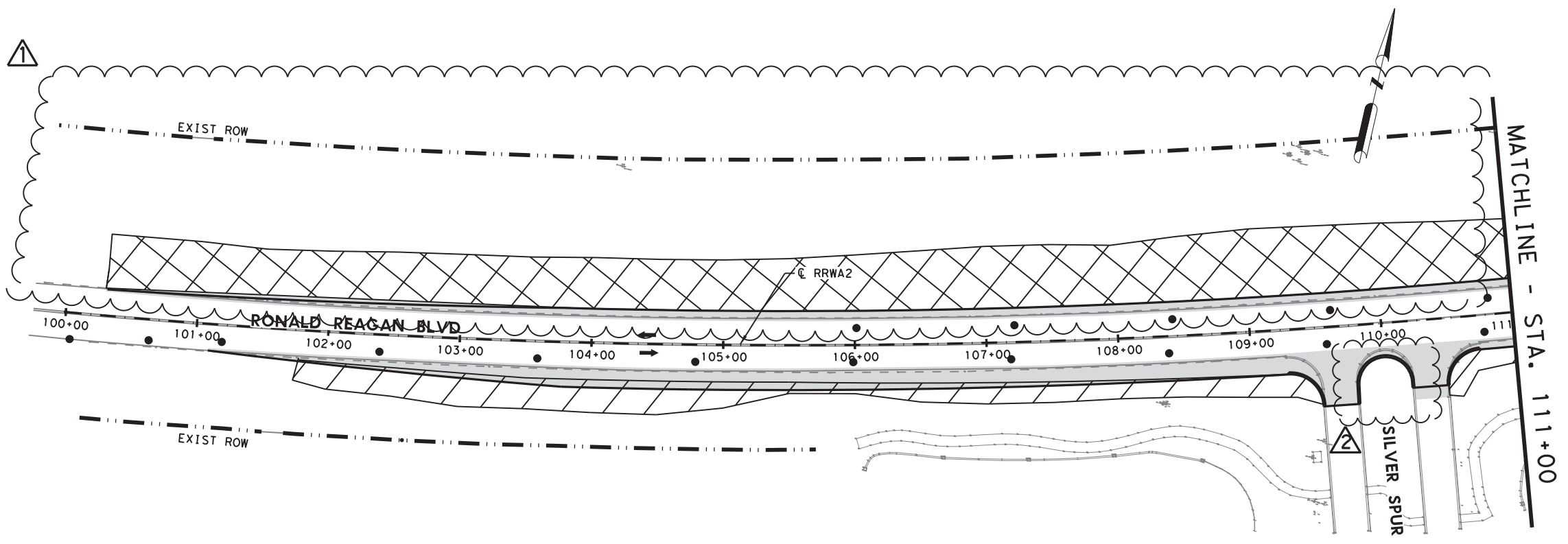
2/3/2021

DATE	BY	REV	REVISION
2/1/21	DR	1	EXTEND MEDIAN NOSE

**RONALD REAGAN BLVD
AT SILVER SPUR BLVD
ADVANCED WARNING
SIGNS**

DESIGN	BY	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET HIGHWAY NO.
QA	KW	12 RONALD REAGAN BLVD.





LEGEND

- CHANNELIZING DEVICE
- ⊥ CONSTRUCTION SIGN
- ⊥ BARRICADE TYPE III
- DIRECTION OF TRAFFIC
- ▨ PHASE 1 WORKZONE
- ▩ PHASE 2 WORKZONE
- PROPOSED PAVEMENT



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2/3/2021

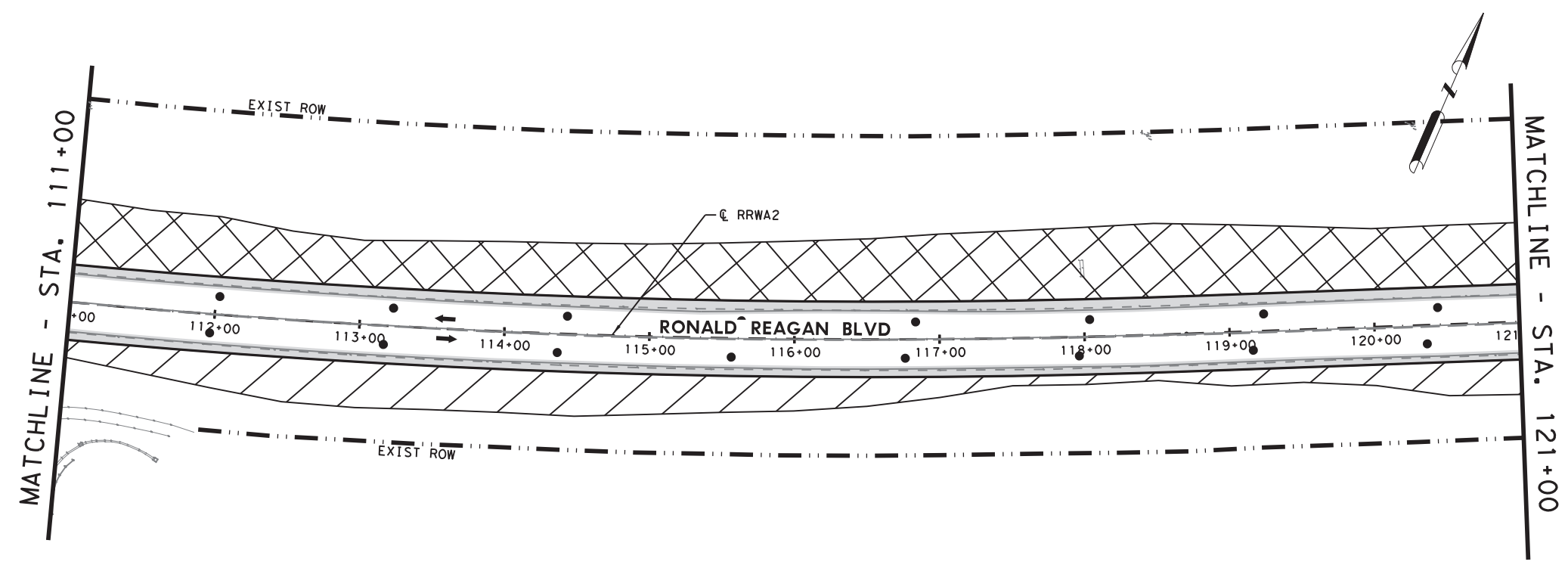
DATE	BY	REV	REVISION
9/30/20	DR	1	ADJUST DITCHES
2/1/21	DR	2	EXTEND MEDIAN NOSE



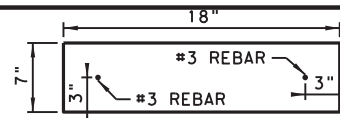
**RONALD REAGAN BLVD
AT SILVER SPUR BLVD
TRAFFIC CONTROL
PLAN
STA 100+50-STA 121+00**

SHEET 1 OF 2

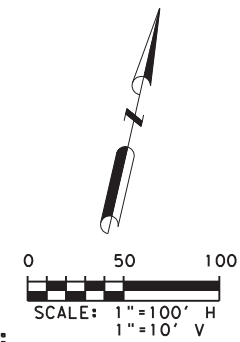
DESIGN	BY	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET
QA	KW	14
		HIGHWAY NO.
		RONALD REAGAN BLVD.



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 11:46:13 AM
 2/3/2021
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RIBBON CURB
DETAIL
(ALL CCG-12 NOTES
AND DETAILS APPLY)
(N. T. S.)

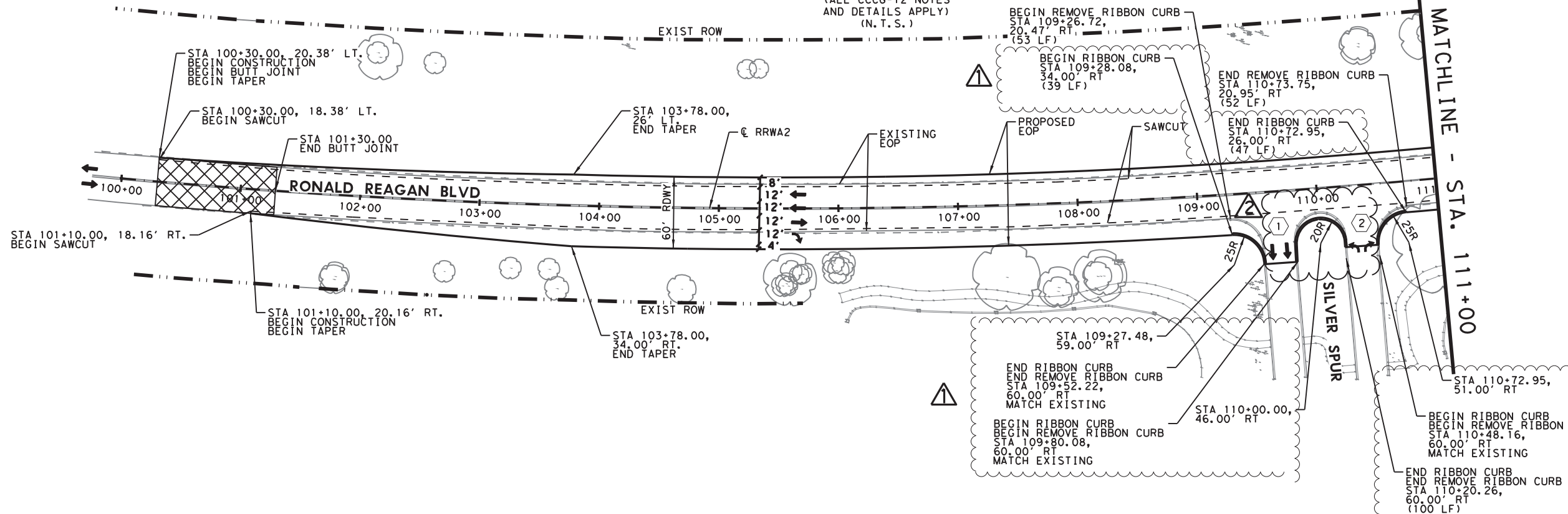


NOTES:

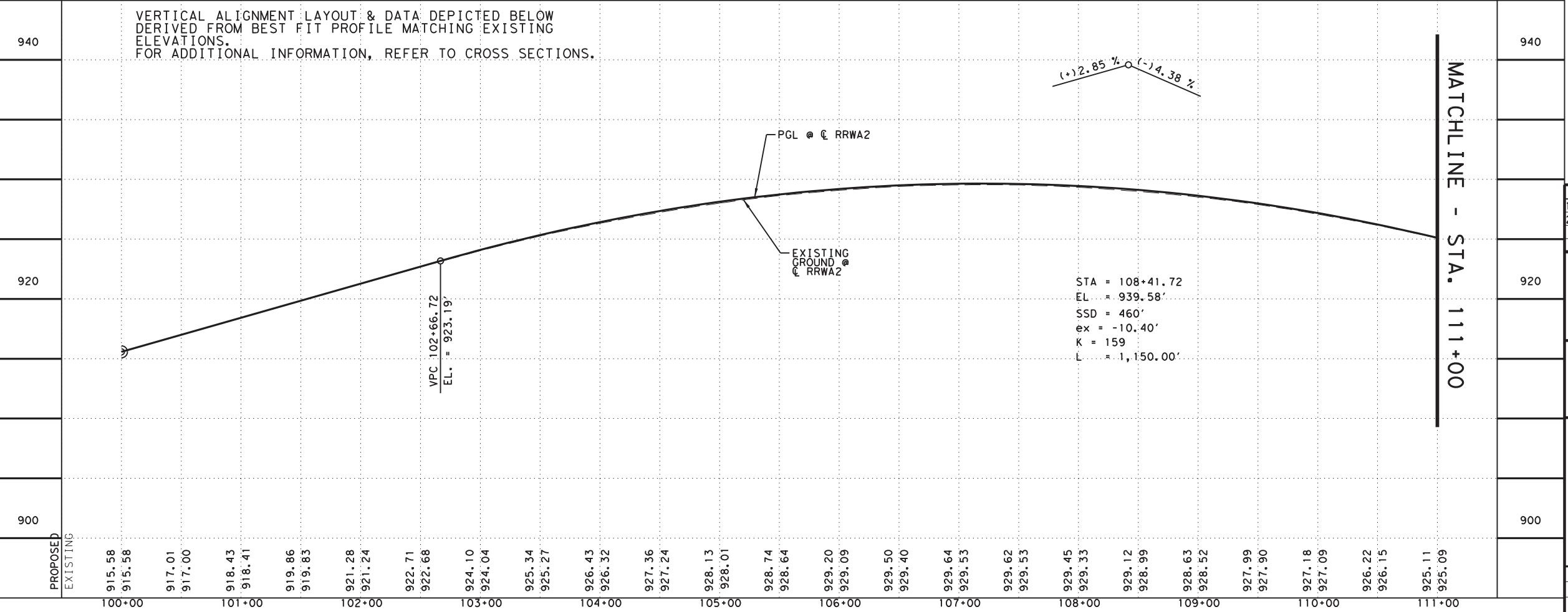
1. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON PLANS.
2. SEE DRIVEWAY DETAILS FOR MORE INFORMATION.

LEGEND:

- OE — OVERHEAD TELEPHONE
- OT — OVERHEAD ELECTRIC
- - - WIRE FENCE
- ➔ DIRECTION OF TRAFFIC
- # DRIVEWAY NUMBER



VERTICAL ALIGNMENT LAYOUT & DATA DEPICTED BELOW
DERIVED FROM BEST FIT PROFILE MATCHING EXISTING
ELEVATIONS.
FOR ADDITIONAL INFORMATION, REFER TO CROSS SECTIONS.



Daniel G. Rogers

2/3/2021

DATE	BY	REV	REVISION
10/27/20	DR	1	DRIVEWAY ADJUSTMENT
2/1/21	DR	2	EXTEND MEDIAN NOSE



**RONALD REAGAN BLVD
AT SILVER SPUR BLVD
PLAN AND PROFILE
STA 100+30.00 TO
STA 111+00.00**

SHEET 1 OF 3

DESIGN	BY	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET
QA	KW	39
		ROADWAY NO.
		RONALD REAGAN BLVD.

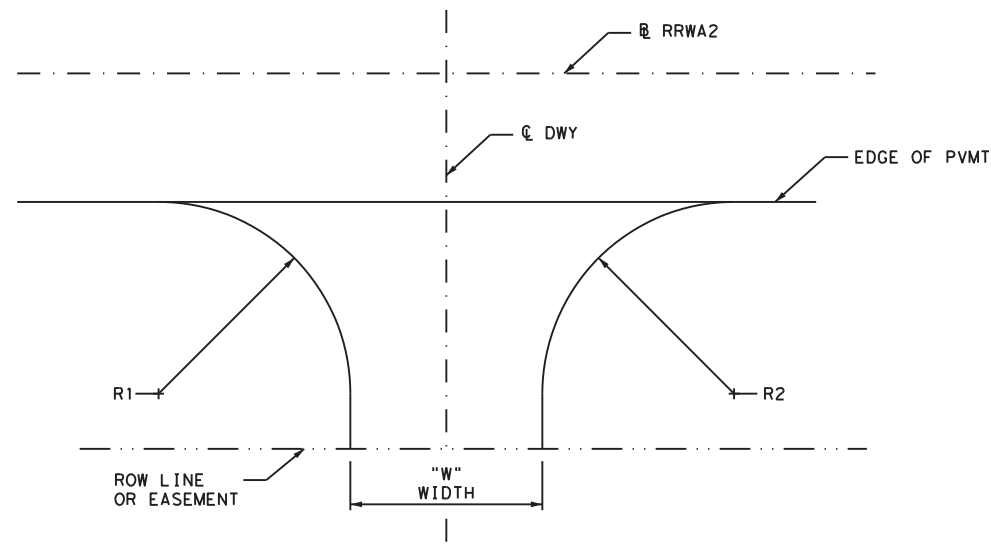
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 2/3/2021
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SUMMARY OF DRIVEWAY DETAILS

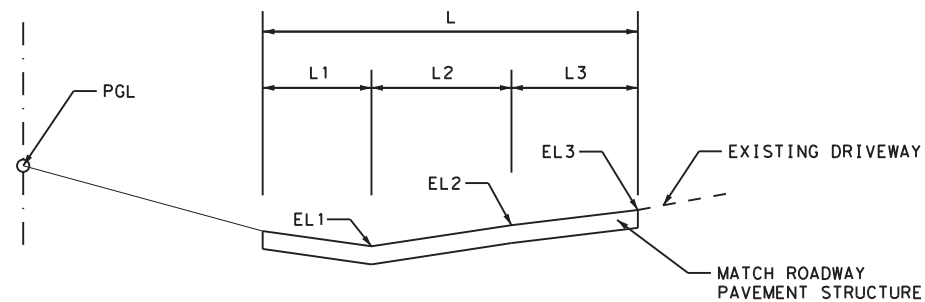
P&P SHEET NO.	DRIVEWAY ID	CL STATION	RT/LT	R1 (FT)	STA	OFF	R2 (FT)	STA	OFF	W (FT)	L (FT)	RDWY GRADE (%)	EOP ELEV (FT)	L1 (FT)	EL1 (FT)	GRADE1 (%)	L2 (FT)	EL2 (FT)	GRADE2 (%)	L3 (FT)	ELEV 3 (FT)	GRADE3 (%)	APSH DWY (SY)*	CONC DWY (SY)
1	DWY 1	109+65.55	RT	25	109+27.48	59	20	110+00.00	60	25.11	30.0	1.4	928.09	30.0	927.90	-0.6							119	
	DWY 2	112+45.26	RT	20	110+00.00	46	25	110+72.95	51	25.17	26.4	2.5	927.07	26.5	928.11	3.9							102	

NOTE: DRIVEWAY IS PAID UNDER ROADWAY ITEMS.

* FOR CONTRACTOR'S INFORMATION ONLY



TYPICAL ASPHALT DRIVEWAY PLAN



TYPICAL ASPHALT DRIVEWAY PROFILE



Daniel G. Rogers

2/3/2021

DATE	BY	REV	REVISION
2/1/21	DR	1	EXTEND MEDIAN NOSE



WILLIAMSON COUNTY
PRECINCT #3



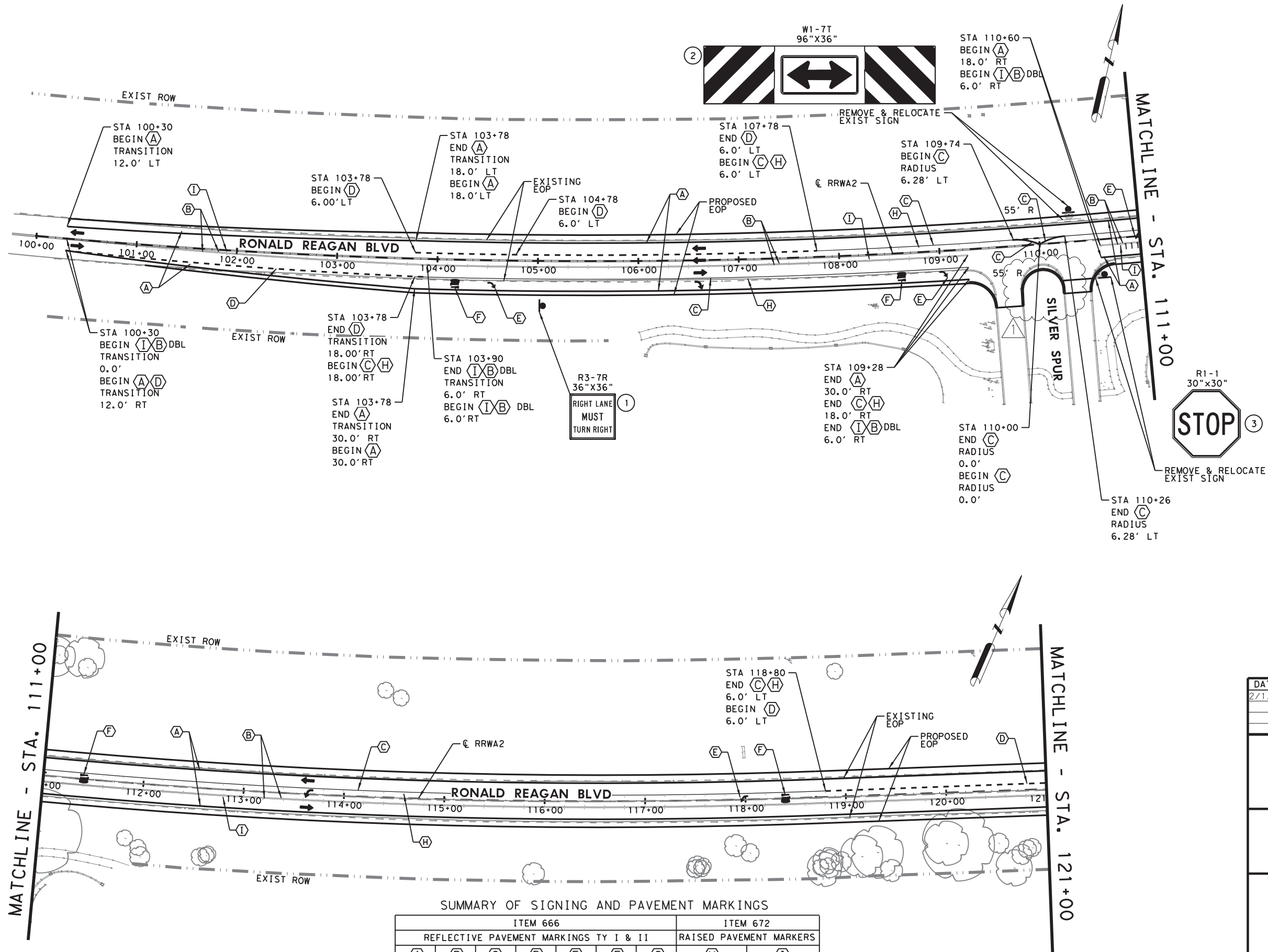
RONALD REAGAN BLVD
AT SILVER SPUR BLVD

DRIVEWAY
DETAILS

SHEET 1 OF 1

DESIGN	BG	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET
QA	KW	41a
		HIGHWAY NO.
		RONALD REAGAN BLVD.

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 2/3/2021
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NOTES:

1. THE LOCATION OF PROPOSED SIGNS, RELOCATED SIGNS, PAVEMENT MARKINGS, DELINEATORS, AND OBJECT MARKERS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAILS INCLUDED IN THESE PLANS AND THE TMTUCD.

LEGEND

- PROPOSED SIGN ASSEMBLY
- EXISTING SIGN ASSEMBLY



Daniel G. Rogers

2/3/2021

DATE	BY	REV	REVISION
2/1/21	DR	1	EXTEND MEDIAN NOSE



**RONALD REAGAN BLVD
AT SILVER SPUR BLVD
SIGNING AND
PAVEMENT MARKERS
STA 100+30.56-STA 121+00**

SHEET 1 OF 2

DESIGN	BG	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET HIGHWAY NO.
QA	KW	50 RONALD REAGAN BLVD.

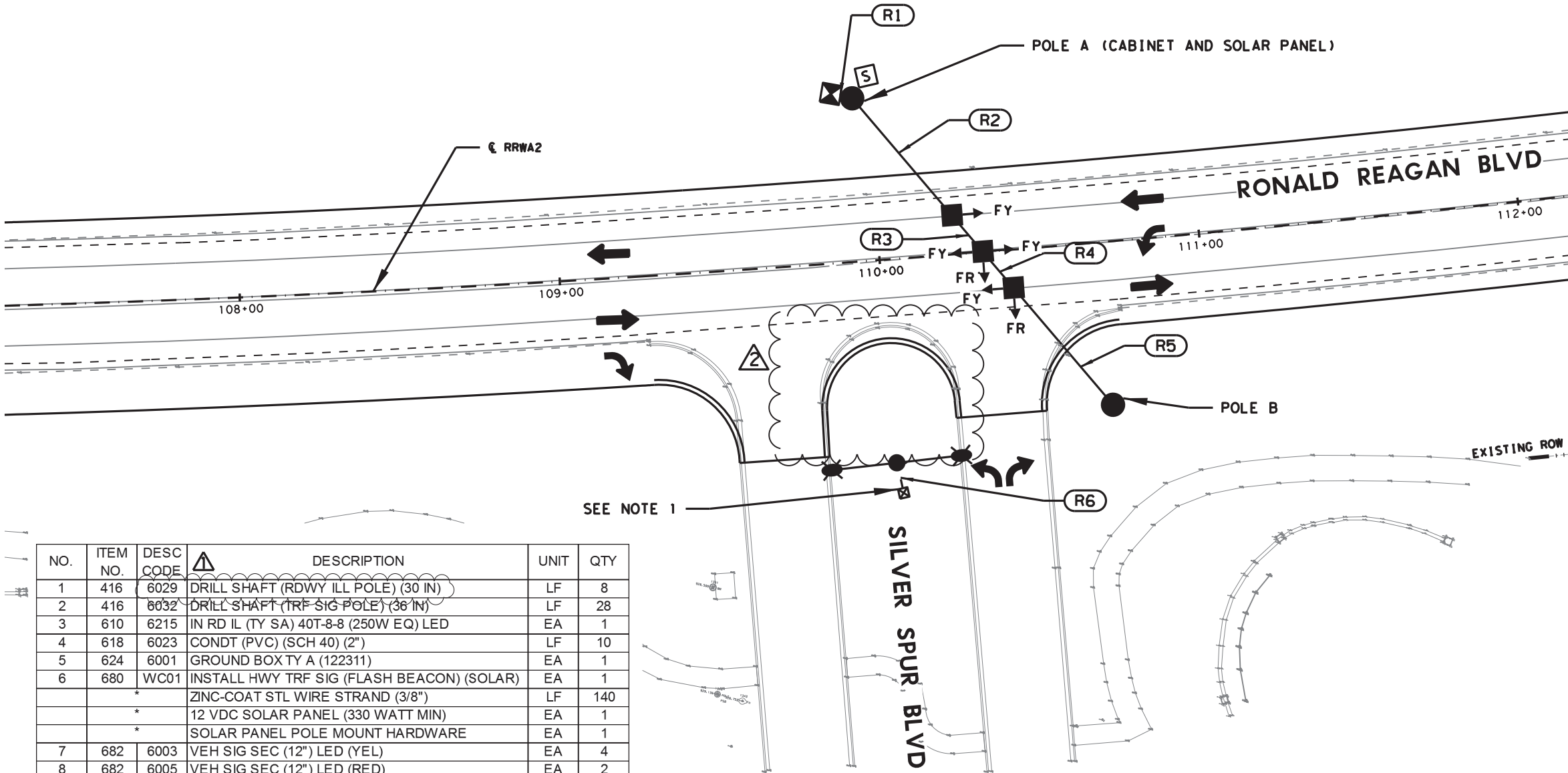
SUMMARY OF SIGNING AND PAVEMENT MARKINGS

ITEM 666							ITEM 672	
REFLECTIVE PAVEMENT MARKINGS TY I & II							RAISED PAVEMENT MARKERS	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
4" WHITE SLD	4" YELLOW SLD	8" WHITE SLD	8" WHITE DOT	ARROW WHITE	WORD WHITE	12" YELLOW SLD	CL B REFL TY I-C	CL B REFL TY II-A-A
LF	LF	LF	LF	EA	EA	LF	EA	EA
4010	3880	1704	218	4	4	-	85	194

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 2/3/2021
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EXISTING ROW

STEEL STRAIN POLES						
POLE ID	QUANTITY	POLE DESIGNATION	FOUNDATION TYPE	FOUNDATION DEPTH	STATION	OFFSET
A	1	SP 30 B-100	36-A	14	109+95.21	51.00' LT
B	1	SP 30 B-100	36-A	14	110+68.68	51.00' RT
TOTAL	2			28		

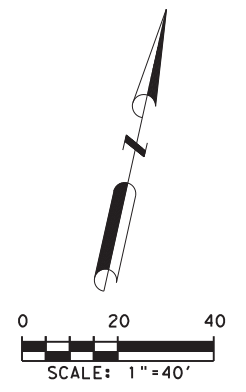


NO.	ITEM NO.	DESC CODE	DESCRIPTION	UNIT	QTY
1	416	6029	DRILL SHAFT (RDWY ILL POLE) (30 IN)	LF	8
2	416	6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	28
3	610	6215	IN RD IL (TY SA) 40T-8-8 (250W EQ) LED	EA	1
4	618	6023	CONDT (PVC) (SCH 40) (2")	LF	10
5	624	6001	GROUND BOX TY A (122311)	EA	1
6	680	WC01	INSTALL HWY TRF SIG (FLASH BEACON) (SOLAR)	EA	1
	*		ZINC-COAT STL WIRE STRAND (3/8")	LF	140
	*		12 VDC SOLAR PANEL (330 WATT MIN)	EA	1
	*		SOLAR PANEL POLE MOUNT HARDWARE	EA	1
7	682	6003	VEH SIG SEC (12") LED (YEL)	EA	4
8	682	6005	VEH SIG SEC (12") LED (RED)	EA	2
9	684	6001	TRF SIG CBL (TY A)(10 AWG)(2 CONDR)	LF	20
10	684	6010	TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	LF	110
11	686	6007	INS TRF SIG PL AM (S)STR(TY B)	EA	2
12	6064	6080	ITS POLE MNT CAB (TY 2)(CONF 1)	EA	1
	**		12 VDC FLASHER CONTROLLER	EA	1
	**		CHARGE CONTROLLER	EA	1
	**		12 V BATTERIES (92 AMP MINIMUM HOUR)	EA	2
	**		12 VDC TO 120 VAC CONVERTER	EA	1

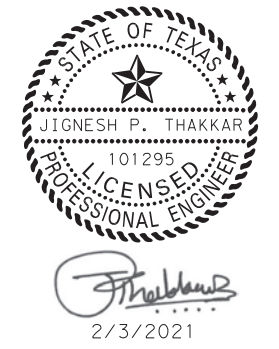
* ITEM SUBSIDIARY TO BID ITEM 680
 ** ITEM SUBSIDIARY TO BID ITEM 6064

ELECTRICAL CHART								
ITEM	TOTAL QTY.	RUN NUMBER	R1	R2	R3	R4	R5	R6
WIRE		RUN LENGTH (FT.)	30	50	15	15	50	10
SIZE	110	TRF SIG CBL (TY A) (12 AWG) (5 CNDR)	1	1	1	1		
TYPE	20	TRF SIG CBL (TY A) (10 AWG) (2 CNDR)	1					
CONDUIT	10	2" PVC						1

NOTES:
 1. CONTRACTOR TO BRING POWER TO THE GROUND BOX FROM THE EXISTING LIGHTING SYSTEM NEAR SILVER SPUR BLVD AND SARATOGA LN INTERSECTION.



- LEGEND**
- PROPOSED STRAIN POLE
 - ⬇ PROPOSED 12" VERTICAL SPAN WIRE MOUNTED FLASHING BEACON HEADS (SOLAR)
 - ⊠ PROPOSED SIGNAL CABINET
 - Ⓢ PROPOSED SOLAR PANEL
 - FR PROPOSED FLASHING RED SIGNAL HEAD
 - FY PROPOSED FLASHING YELLOW SIGNAL HEAD
 - Ⓡ PROPOSED RUN NO.
 - ⬇ PROPOSED LUMINAIRE
 - - - PROPOSED CONDUIT
 - ⊠ PROPOSED GROUND BOX



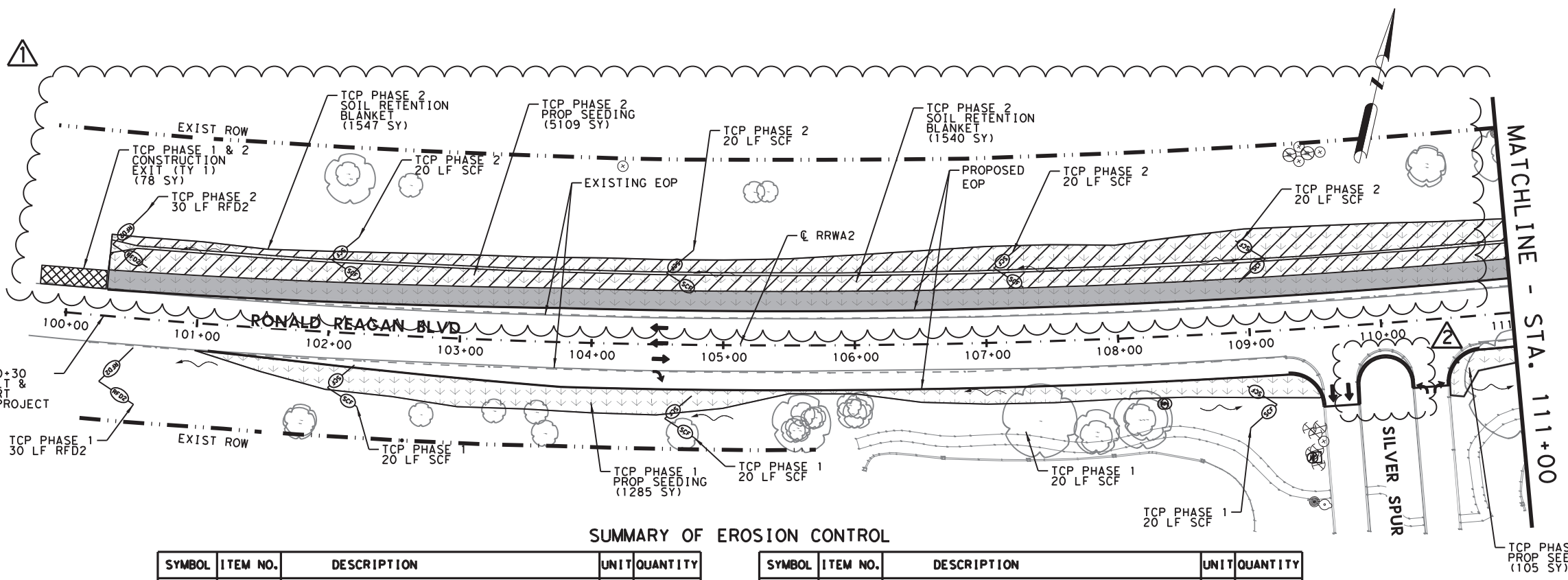
DATE	BY	REV	REVISION
10-5-20	JT	1	ILLUMINATION BID NO.
2/1/21	DR	2	EXTEND MEDIAN NOSE



RONALD REAGAN BLVD AT SILVER SPUR BLVD PROPOSED FLASHING BEACON SIGNAL LAYOUT

DESIGN	BY	REV	COUNTY
CAD	MJ		WILLIAMSON
QC	DR		HIGHWAY NO.
QA	KW	53	RONALD REAGAN BLVD.

9PLTDIVS8
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 2/3/2021
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LEGEND

- TOPSOIL AND SEEDING
- SOIL RETENTION BLANKETS (CL1) (TY A)
- VEGETATIVE FILTER STRIP
- CONSTRUCTION EXIT (TY 1)
- FLOW DIRECTION

- NOTES:**
1. LOCATION OF TEMPORARY SEEDING WILL BE DETERMINED AS DIRECTED BY THE ENGINEER.
 2. LOCATION OF CONSTRUCTION EXITS TO BE VERIFIED BY ENGINEER IN THE FIELD.

SUMMARY OF EROSION CONTROL

SYMBOL	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	160	FURN AND PLAC TPSL (4")	SY	13363
	160	EROSION CONTROL COMPOST (3")	SY	3341
	160	MULCH TOPDRESSING (5")	SY	3341
	164	SEEDING (TEMP) (COOL) (TY 4)	SY	6682
	164	SEEDING (PERM) (WARM) (TY 5)	SY	13363
	164	SEEDING (TEMP) (WARM) (TY 10)	SY	6682

SYMBOL	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	166	FERTILIZER	TON	0.84
	168	VEGETATIVE WATERING	MG	400.9
	168	SOIL RETENTION BLANKETS (CL 1) (TY A)	SY	6132
	506	ROCK FILTER DAM (TY 2)	LF	60
	506	TEMP SEDIMENT CONTROL FENCE	LF	300
	506	CONSTRUCTION EXIT (TY 1)	SY	78



Daniel G. Rogers

2/3/2021

DATE	BY	REV	REVISION
9/30/20	DR	1	ADJUST DITCHES
2/1/21	DR	2	EXTEND MEDIAN NOSE

WILLIAMSON COUNTY
PRECINCT #3

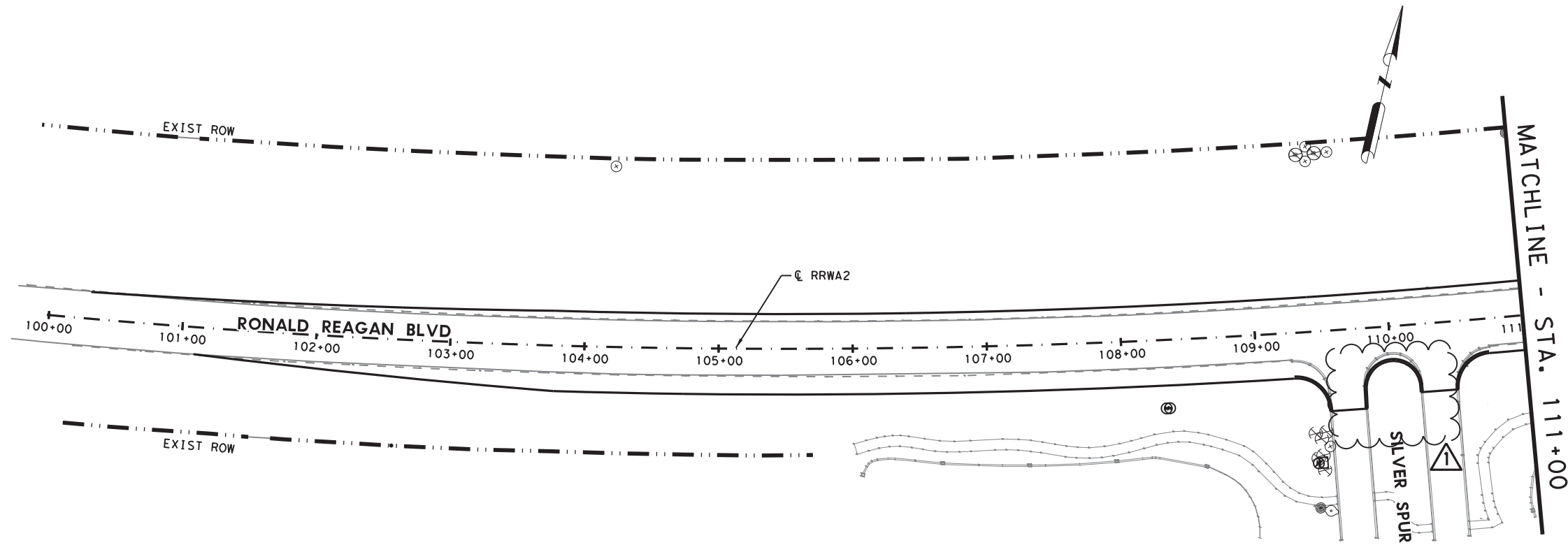
WSB & ASSOCIATES, INC.
FIRM # 16849

**RONALD REAGAN BLVD
AT SILVER SPUR BLVD**
EROSION CONTROL
STA 100+30-STA 121+00

SHEET 1 OF 2

DESIGN	BY	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET HIGHWAY NO.
QA	KW	80 RONALD REAGAN BLVD.

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 11:46:22 AM
 2/3/2021
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LEGEND

- OE — OVERHEAD ELECTRICAL
- OT — OVERHEAD TELEPHONE
- ⊕ FIREHYDRANT
- ⊙ WATER METER
- ⊗ WATER VALVE
- ⊙ SANITARY MANHOLE
- ELECTRIC POLE
- ⊙ GAS MARKER
- ⊗ GAS VALVE



Daniel A. Rogers

2/3/2021

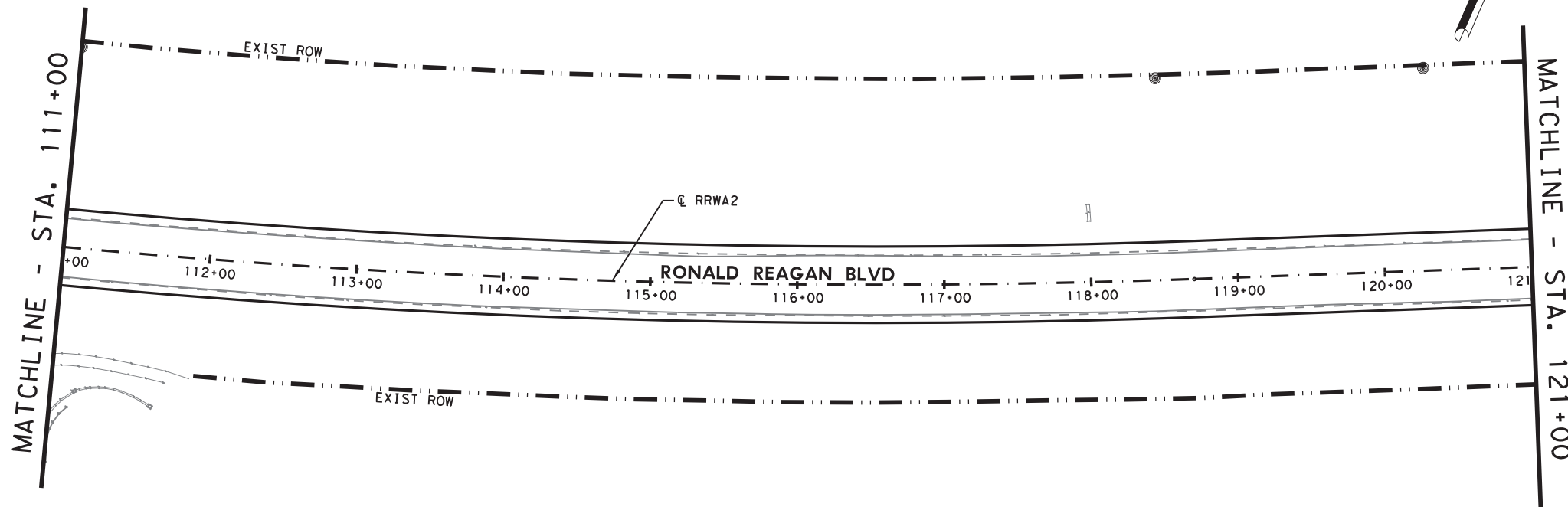
DATE	BY	REV	REVISION
2/1/21	DR	1	EXTEND MEDIAN NOSE



WILLIAMSON
COUNTY
PRECINCT
#3

wsb WSB & ASSOCIATES, INC.
FIRM # 16849

**RONALD REAGAN BLVD
AT SILVER SPUR BLVD**
**EXISTING UTILITES
STA 100+50-STA 121+00**



SHEET 1 OF 2

DESIGN	BG	COUNTY
CAD	MJ	WILLIAMSON
QC	DR	SHEET
QA	KW	85
		HIGHWAY NO.
		RONALD REAGAN BLVD.