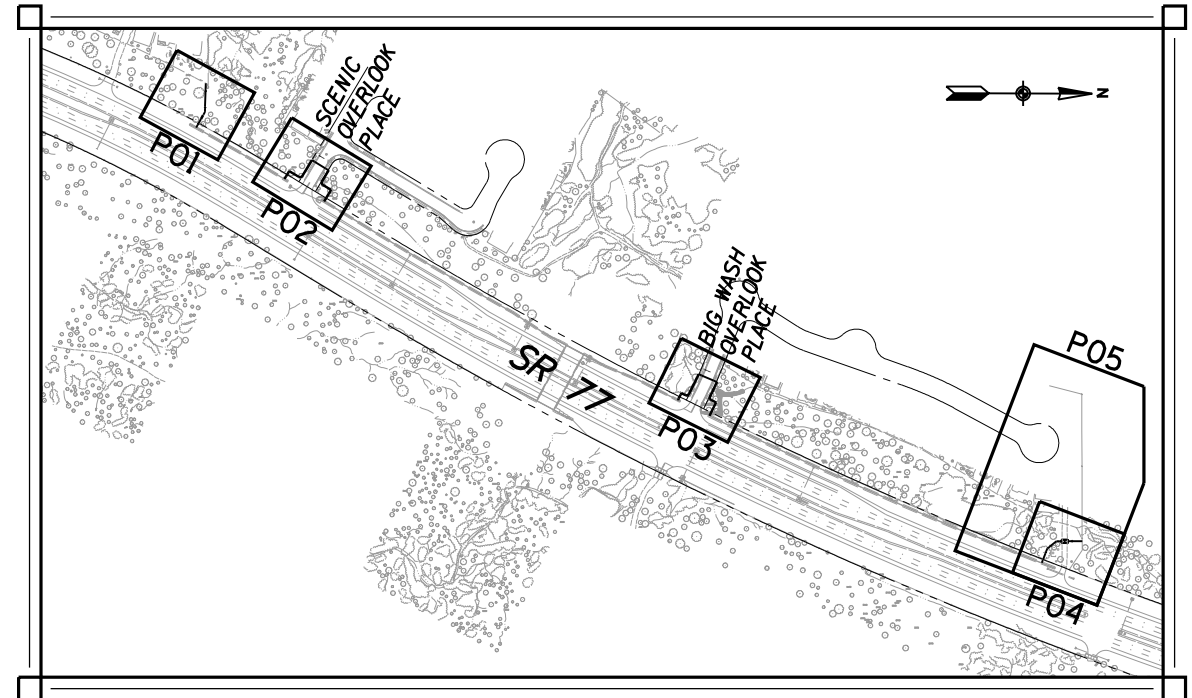


SR 77 WILDLIFE ELEMENTS

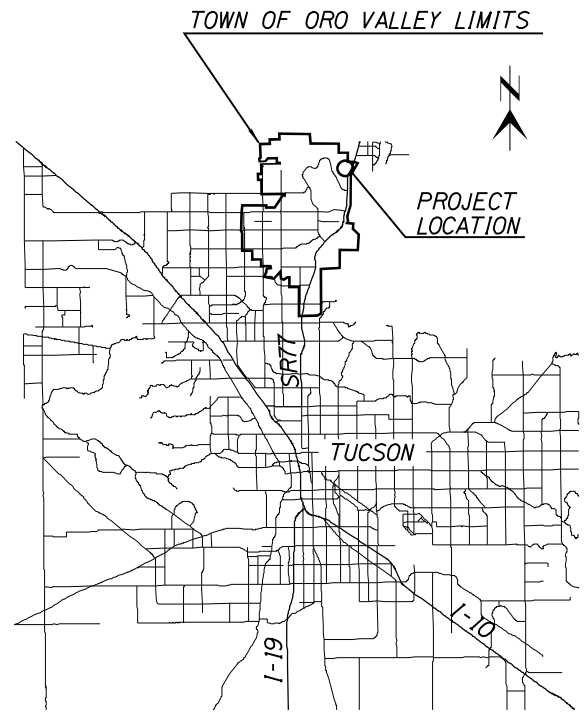
TOWN OF ORO VALLEY
PROJECT NUMBER: OV30 21/22 12

GENERAL DESCRIPTION OF PROJECT

THIS PROJECT CONSISTS OF ADDING WILDLIFE ELEMENTS ALONG THE WEST SIDE OF SR 77, SOUTH OF SCENIC OVERLOOK PLACE TO NORTH OF BIGWASH OVERLOOK PLACE. IMPROVEMENTS INCLUDE WILDLIFE FENCE, WILDLIFE GATES, CATTLE GUARD, MASONRY BLOCK WALL, VIEW FENCING AND GATES.



Index to Plan Sheets
NTS



VICINITY MAP
NTS

SECTION 20 & 29, T11S, R14E
ORO VALLEY, ARIZONA

APPROVAL: *RuKa* 2021.10.27
14:05:00-07'00'
ORO VALLEY TOWN ENGINEER

ORO VALLEY
TOWN COUNCIL
JOE WINFIELD, MAYOR
MELANIE BARRETT, VICE-MAYOR
JOYCE JONES-IVEY
JOSH NICOLSON
HARRY GREENE, II
TIMOTHY BOHEN
STEVE SOLOMON



Town of Oro Valley Engineering Division		
11000 N. La Canada Drive Oro Valley AZ, 85737		
Phone Number: 520-229-4894		
Paul Keesler, P.E. Town Engineer		
Reviewed by	Engineer	Date
Mgr. Trans Engr.		
Mgr. Traffic Engr.		
Mgr. Field Engr.		

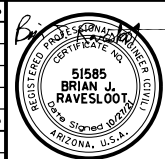
TRANSPORTATION

AECOM
www.aecom.com

AECOM Technical Services, Inc.
333 E. WETMORE RD, SUITE 400
Tucson, Arizona 85705
T 520.887.1800 F 520.887.8438

No.	Revisions	Engineer	Date
No.	As Built	Engineer	Date

Project No. OV30 21/22 12



GENERAL NOTES:

1. Construction Shall be in Conformance with the Specifications and Details Listed in the Special Provisions.
2. Utility Locations Shown on the Plans were Compiled Based on the Best Information Available to the Department. Utility Locations are not Intended to be Exact or Complete. Prior to Commencing Construction, the Contractor Shall Verify the Location of all Utilities with the Appropriate Organizations. Contact "Arizona 811" at 1-800-782-5348 Two Full Working Days Prior to Beginning Construction (Saturdays and Sundays are Not Considered Working Days).
3. No Separate Payment will be Supplied for any Potholing on the Project.
4. No Separate Payment will be Supplied for any Shoring Requirements on the Project.
5. No Separate Payment will be Supplied for any Earthwork on the Project.
6. All project work shall be completed within the Limits of Disturbance areas shown on the plans.
7. Right-of-Way Encroachments Shall be Removed Only by Order of the Town of Oro Valley, Unless Otherwise Noted.
8. Removal of all Cacti and Native Plants Shall be in Accordance with the Provisions of the "Arizona Native Plant Law" A.R.S., Chapter 7.
9. Contractor Shall Comply with all Applicable Occupational Safety and Health Administration Regulations, in Particular, Shoring of Trenches and Excavations.
10. Contractor Shall Obtain all Permits by all Governmental Agencies.
11. The BASIS OF BEARINGS, The BASIS OF ELEVATIONS, AND THE BASIS OF ALIGNMENT AND STATIONS:
The coordinates were based on NAD83/92 Horizontal and NAVD88 Vertical Datum with a GAF of 1.0001329. NGS Control Points used for this project include Control Points Shown on Record Drawing STP-077-A(204)T. Refer to Record Drawing STP-077-A(204)T for Additional Information.
12. Soils Information is not Available for This Project.
13. The Contractor Shall Maintain Access to Scenic Overlook Place, Big Wash Overlook Place, All Driveways, Alleys, and Mailboxes During Construction. The Contractor Will Not Restrict Emergency Vehicles, U.S. Postal Delivery, Solid Waste Collections, and/or Access to the Adjacent Properties, Except as Approved by the Engineer. No restrictions or construction shall occur on Holidays.

14. *Omissions or Conflicts of the Various Elements of the Drawings, Notes, or Details Shall be Brought to the Attention of the Engineer and Resolved Before Proceeding with the work.*
15. *All Stationing Shown on the Plans Is Along the SR 77 Construction Centerline Unless Otherwise Noted.*
16. *Existing Utilities Include, But May not be Limited to, Overhead and Underground Electric, Telephone, Television, Sewer, Gas, and Water, and Shall be Protected in Place Unless Otherwise Noted and Shown in These Plans.*
17. *Existing Topographic Conditions Shown on Plan Sheets Reflect Conditions as of 2016.*
18. *It Shall be the Contractor's Responsibility to Furnish, Haul and Apply all Water Required for Compaction and for the Control of Dust From Construction Activity. The Cost for this Work is to be Included in the Construction Price, with No Separate Payment.*

SOUTHWEST GAS NOTES

1. WHEN WORKING WITHIN 10 FT OF A GAS MAIN THE CONTRACTOR MUST CONTACT SOUTHWEST GAS TO SCHEDULE A STAND-BY 24 HOURS IN ADVANCE BY CALLING (520)-794-6021.

TEP NOTES

1. THE CONTRACTOR SHALL COORDINATE THE EQUIPMENT AND FACILITIES REQUIRED TO PROVIDE A NEW TEP POWER SERVICE FOR THE NEW GATES AT SCENIC OVERLOOK PLACE AND BIG WASH OVERLOOK PLACE.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO A.R.S. 40-360.41 THRU 360.44 FOR RESTRICTIONS ON WORK IN THE VICINITY OF OVERHEAD POWER LINES. THE CONTRACTOR SHALL NOT OPERATE POWER EQUIPMENT PLACED SO THAT ANY EXTENSION OF THE EQUIPMENT AND/OR LOAD CARRIED BY THE EQUIPMENT CAN REACH 10 FEET OF ACTIVE POWER LINES RATED AT OR UNDER 50 KILOVOLTS. GREATER CLEARANCES APPLY FOR HIGHER VOLTAGE POWER LINES. WHERE WORK WITHIN THE CLEARANCE LIMITS IS NECESSARY, THE CONTRACTOR SHALL CONTACT TEP 10 WORKING DAYS IN ADVANCE OF THE PROPOSED WORK, TO ARRANGE FOR TEMPORARY DEACTIVATION, OR OTHER MEASURES DEEMED NECESSARY TO PERMIT SAFE OPERATION NEAR THE OVERHEAD LINES. WHERE EXCAVATION NEAR EXISTING POWER POLES IS PLANNED, THE CONTRACTOR SHALL CONTACT TEP 10 WORKING DAYS IN ADVANCE, TO ARRANGE FOR BRACING AND SHORING. BEFORE THE END OF THE WORK SHIFT EACH DAY. THE CONTRACTOR SHALL PROVIDE DRIVABLE ACCESS TO ALL TEP POLES, EQUIPMENT AND FACILITIES.

LENGTH OF PROJECT

SR 77 824+23 TO 850+26, 0.49 MILES

SHEET INDEX

<u>Page No</u>	<u>Sheet No</u>	<u>Sheet Type</u>
1	CS01	Cover Sheet
2	GN01	General Notes Sheet
3-8	D01 - D06	Detail Sheets
9-11	G01 - G03	Geometric Control Sheets
12-16	P01 - P05	Roadway Plan Sheets
17-18	W1 - W2	Wall Profile Sheets

		Date
Designed	AA	10/21
Drawn	KL	10/21
Checked	BR	10/21
Proj. Engr.	BR	10/21

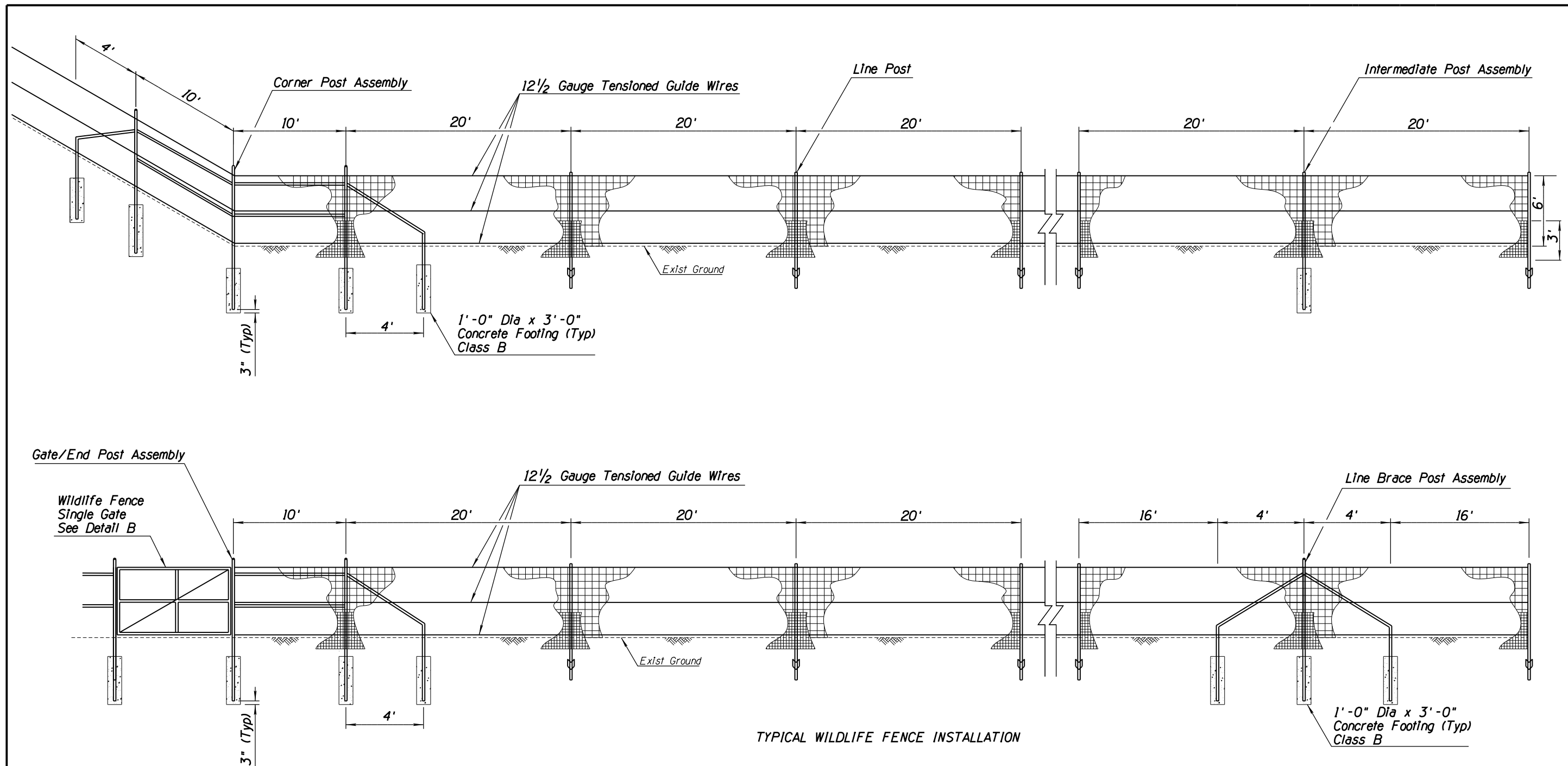
No.	Revision Description	Engineer	Date



Town of Oro Valley Department of Public Works

GENERAL NOTES SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. 0V30 21/22 12

R/A-SR // WILDLIFE ELEMENTS - PROJECT NO. 0030 21/22 12



TYPICAL WILDLIFE FENCE INSTALLATION

NOTES:

- 1) The fence fabric shall consist of 12 1/2 gauge, twisted tied, or welded, galvanized wire. Line wires shall be high tensile and stay wire shall be medium tensile.
- 2) The 1/4" fine mesh fence shall be buried about 12" but no less than 8".
- 3) Intermediate posts shall be placed at the low point of a dip and at the crown of a hump. The maximum spacing between intermediate posts shall not exceed 120 feet.
- 4) Line brace post assemblies shall be placed at dramatic changes (where grade changes exceed 15%) in the topography.
- 5) Tensioned guide wires shall be tied off at both ends of the fence then tensioned in the middle of the pull.
- 6) General fence installation shall adhere to the guidelines written by the fencing manufacturer and minimum requirements of the Standard Specifications, Section 903.
- 7) Concrete footings shall have 3" clear from bottom of post to bottom of footing and shall meet the requirements of the Standard Specifications, Section 922.
- 8) See Plan Sheets P01 and P04 for Locations.
- 9) Wildlife Fence (6' High) shall be paid under bid item #9030017.
- 10) All fence fabric shall be metal stained. Metal staining will be paid under bid item #9300114.

DETAIL A

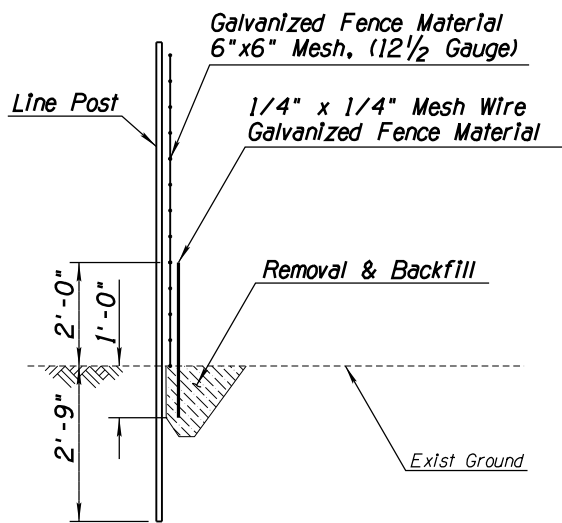
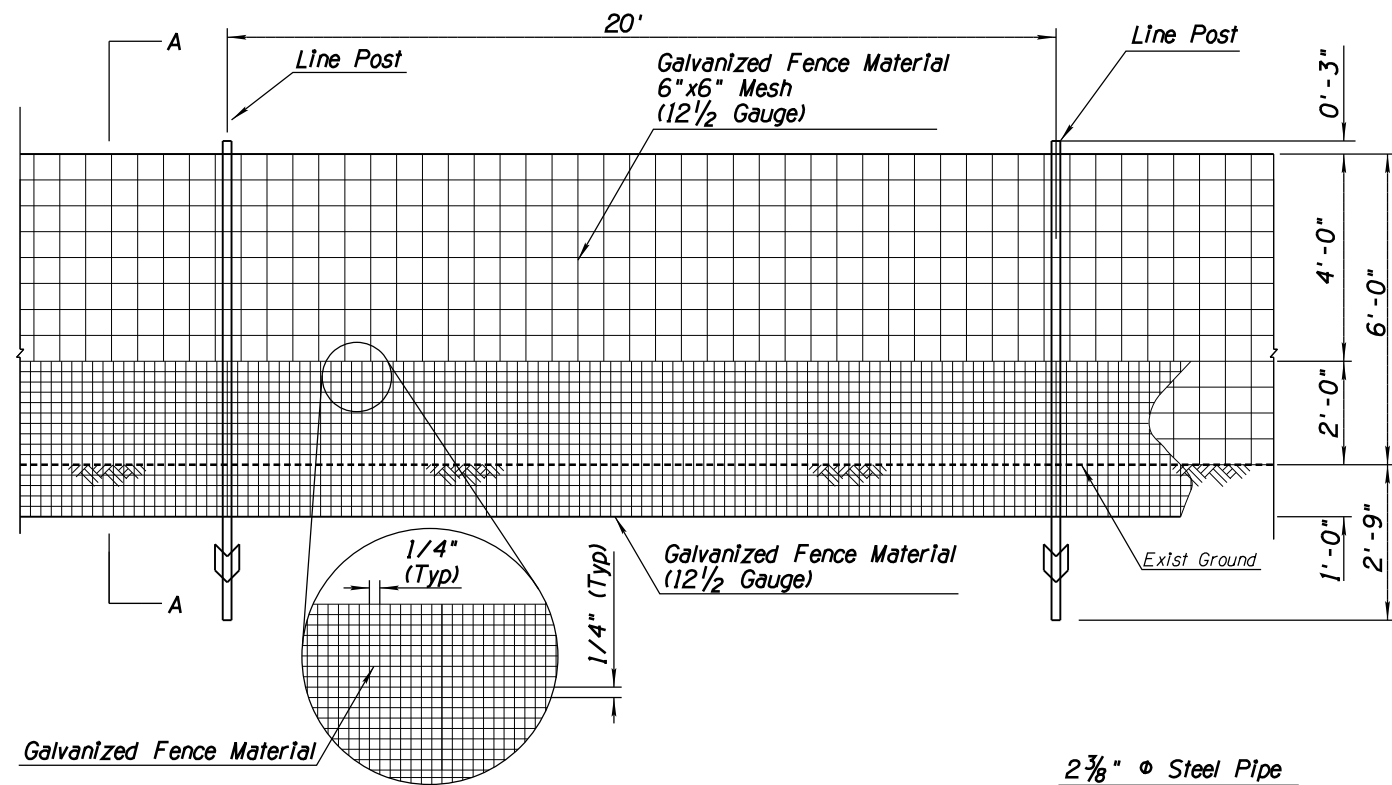
Wildlife Fence (Sheet 1 of 2)

No.	Revision Description	Engineer	Date
AA	Designed	KL	10/21
XL	Drawn	BR	10/21
BR	Checked	BR	10/21
BR	Proj. Engr.	BR	10/21

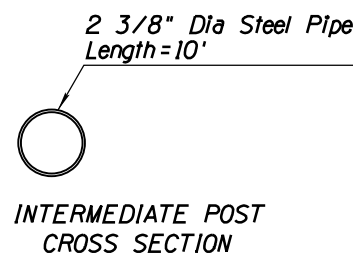
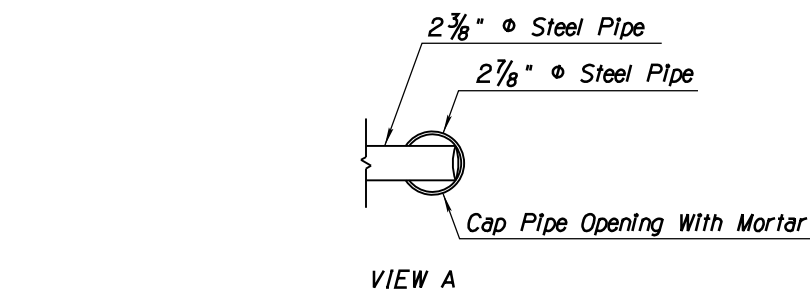
No.	Revision Description	Engineer	Date



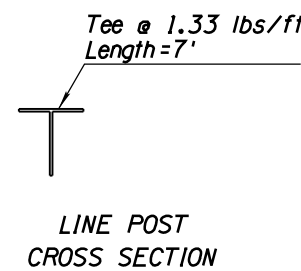
Town of Oro Valley Department of Public Works
 DETAIL SHEET
 SR 77 WILDLIFE ELEMENTS
 PROJECT NO. OV30 21/22 12



SECTION A-A



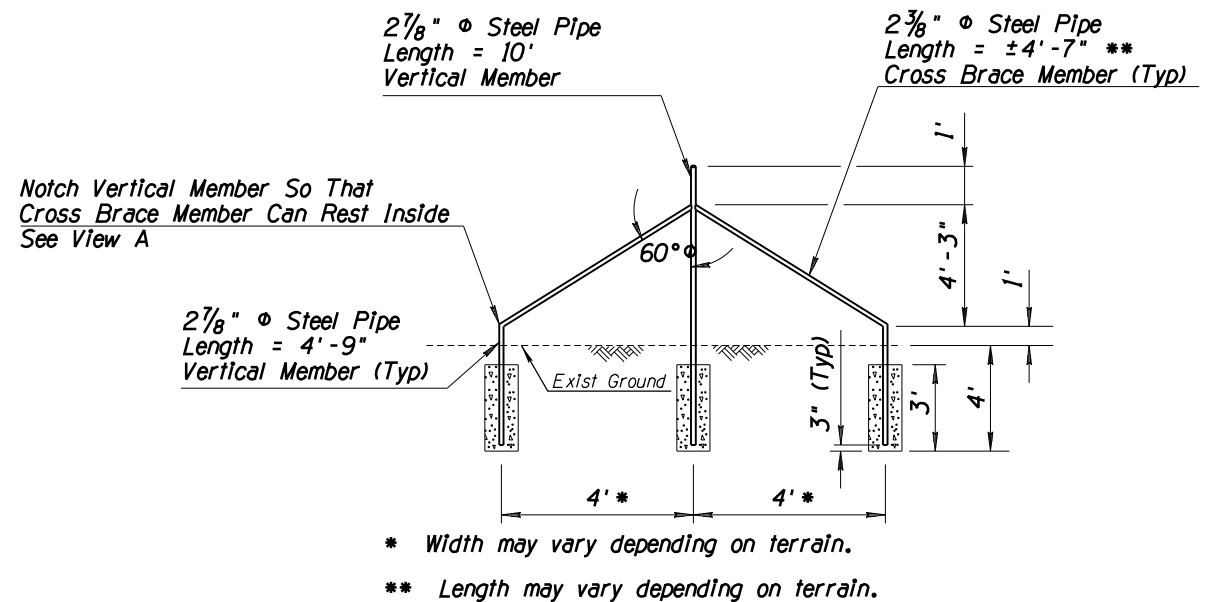
INTERMEDIATE POST
CROSS SECTION



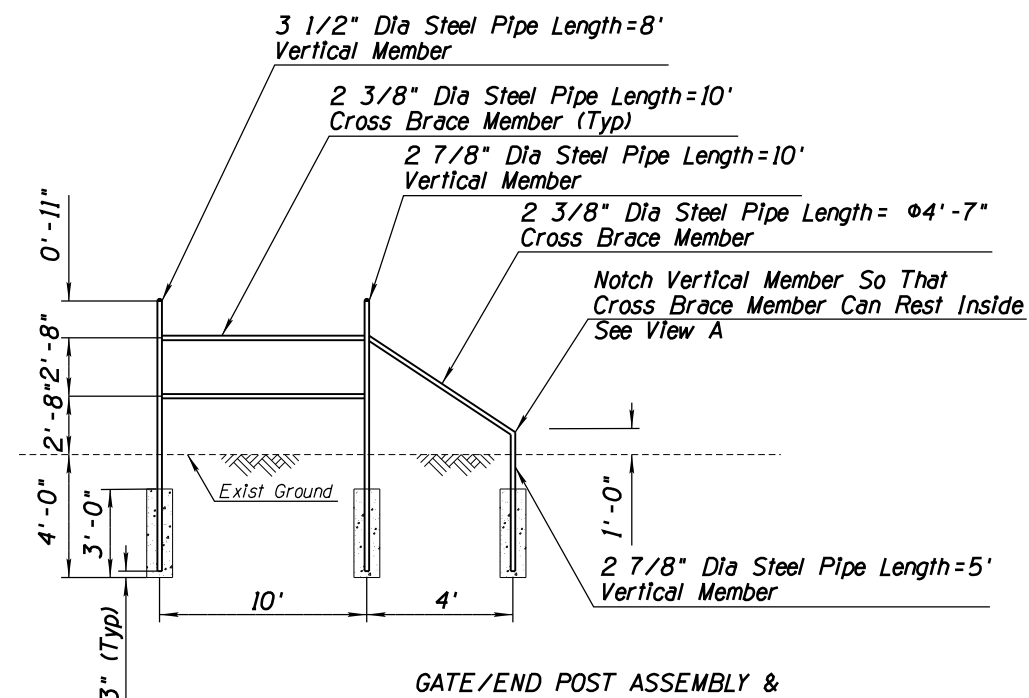
LINE POST
CROSS SECTION

NOTES:

- 1) Ensure that the fine mesh fence height above ground level is no less than 24 inches.
- 2) Ensure that the depth of fine mesh fence is about 12", but no less than 8 inches below ground level.
- 3) Backfill and compact trench for buried fence.
- 4) Attach fine mesh fence material to woven wire with Hog Rings at 12" intervals, 16 gauge tie wire used at 3' horizontal & 2' vertical spacing to attach 1/4" fine mesh to wire woven fence.
- 5) Fasten fence materials to posts with 3 tie wires with a wire near the top, bottom, and center of the fence material.
- 6) Tie the fence to the existing walls and fence where shown in the fence layout sheets.
- 7) Weld solid all connections of vertical and cross brace members. The weld shall be ground flush inspected for voids and painted (stained) with primer or rust preventative. all freshly ground welds shall be painted or treated by the end of the work shift.
- 8) Cap all pipes with pressed steel caps.
- 9) All fencing materials will be Stained in accordance with and paid for under Item 9300114, T Posts to remain green, with no white tips.
- 10) Wildlife Fence (6' High) shall be paid under bid item #9030017.



LINE BRACE ASSEMBLY



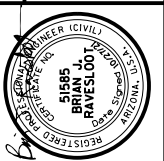
GATE/END POST ASSEMBLY &
CORNER POST ASSEMBLY

DETAIL A

Wildlife Fence (Sheet 2 of 2)

Date	10/21
Designed	AA
Drawn	KL
Checked	BR
Proj. Engr.	BR

Date	
Revision Description	
Engineer	
No.	



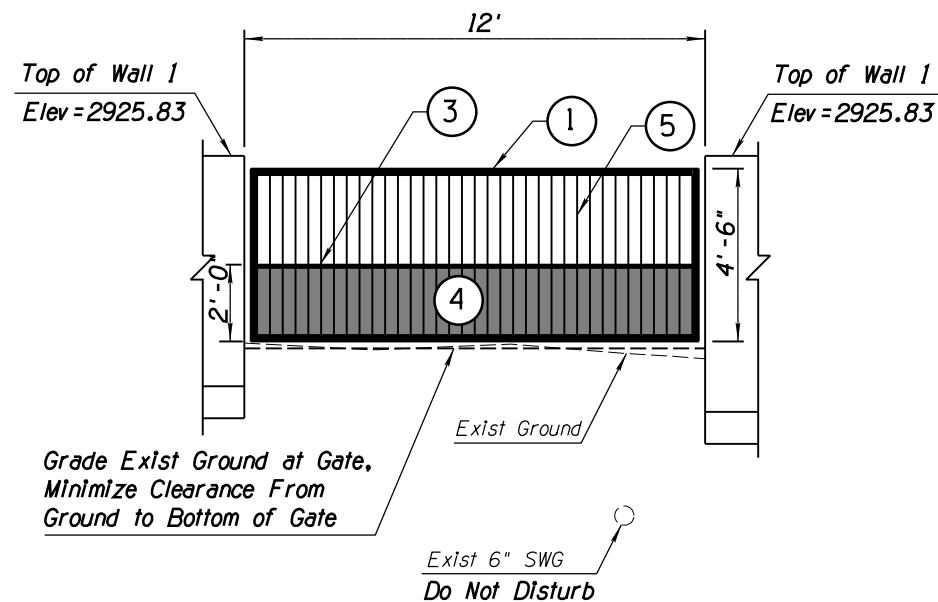
AECOM
TRANSPORTATION
AECOM USA, INC.
333 E. WETMORE RD. STE 400
TULSA, OK 74106
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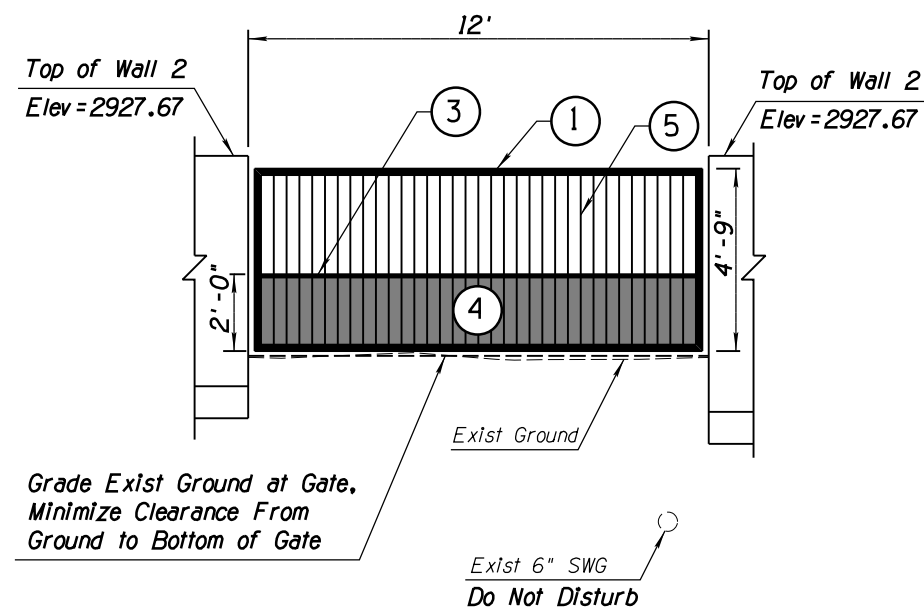
DETAIL SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. OV30 21/22 12

Town of Oro Valley Department of Public Works

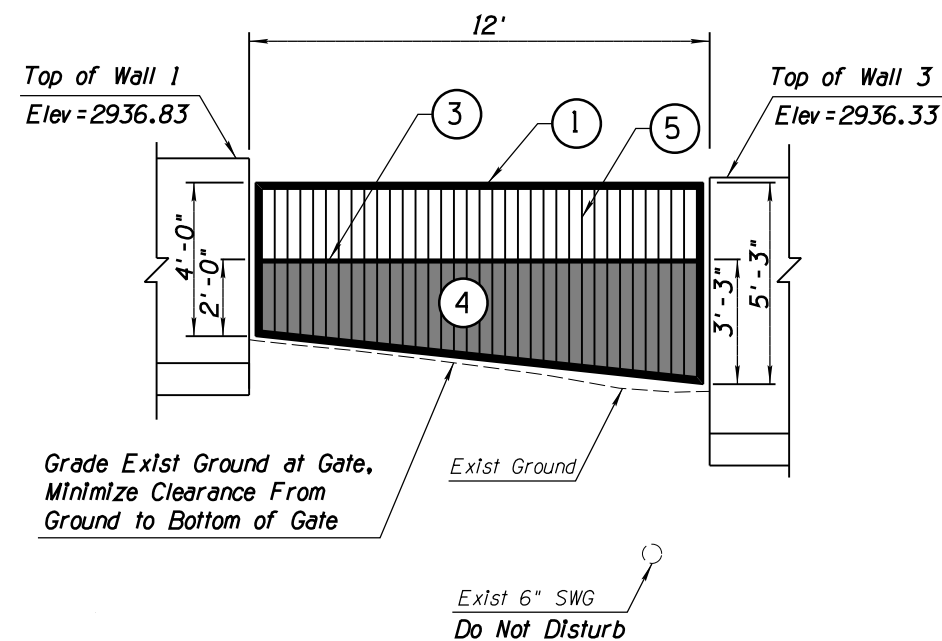
RTA-SR 77 WILDLIFE ELEMENTS - PROJECT NO. OV30 21/22 12



SCENIC OVERLOOK, WALL 1 ACCESS GATE
ELEVATION VIEW



SCENIC OVERLOOK, WALL 2 ACCESS GATE
ELEVATION VIEW



BIG WASH OVERLOOK, WALL 3 ACCESS GATE
ELEVATION VIEW

DETAIL C

Access Gates

NOTES:

1. Contractor to Adjust Gate Dimensions as Required in the Field and as Approved by the Engineer.
2. View Fencing Finish Shall be Oxidized & Sealed to Prevent Rust Drip or Primed and Painted a Rust Color. Contractor Shall Submit Samples of Proposed Finish to the Engineer. Finish Shall match Gates Finish.
3. All Joints Shall be Welded. Grind all Welds Smooth.
4. Contractor May Adjust Material Sizes Based on Gate Construction Requirements.
5. Contractor Shall Supply Shop Drawings for Gates.
6. Contractor Shall Verify Swing of Gates Prior to Installation.
7. Access Gate's shall be paid under bid Item #9300113.

Contractor Shall Submit the Chosen Access Gate Material Specifications For Review/Approval by the Engineer.

- 1 2" Square Steel Tube 16 GA Frame Top, Bottom and Side Rails (Typical)
- 3 1" Square Steel Tube 18 GA Vertical and Horizontal Pickets (Typical)
- 4 Perforated Sheet Steel 22 GA Square Hole Pattern Hole Size 1/2", 50% Open, Spot-Weld to Pickets
- 5 1/2" Square Steel Tube 20 GA Vertical Fencing

Date	10/21
Designed	AA
Drawn	KL
Checked	BR
Proj. Engr.	BR

No.	Revision Description	Engineer	Date

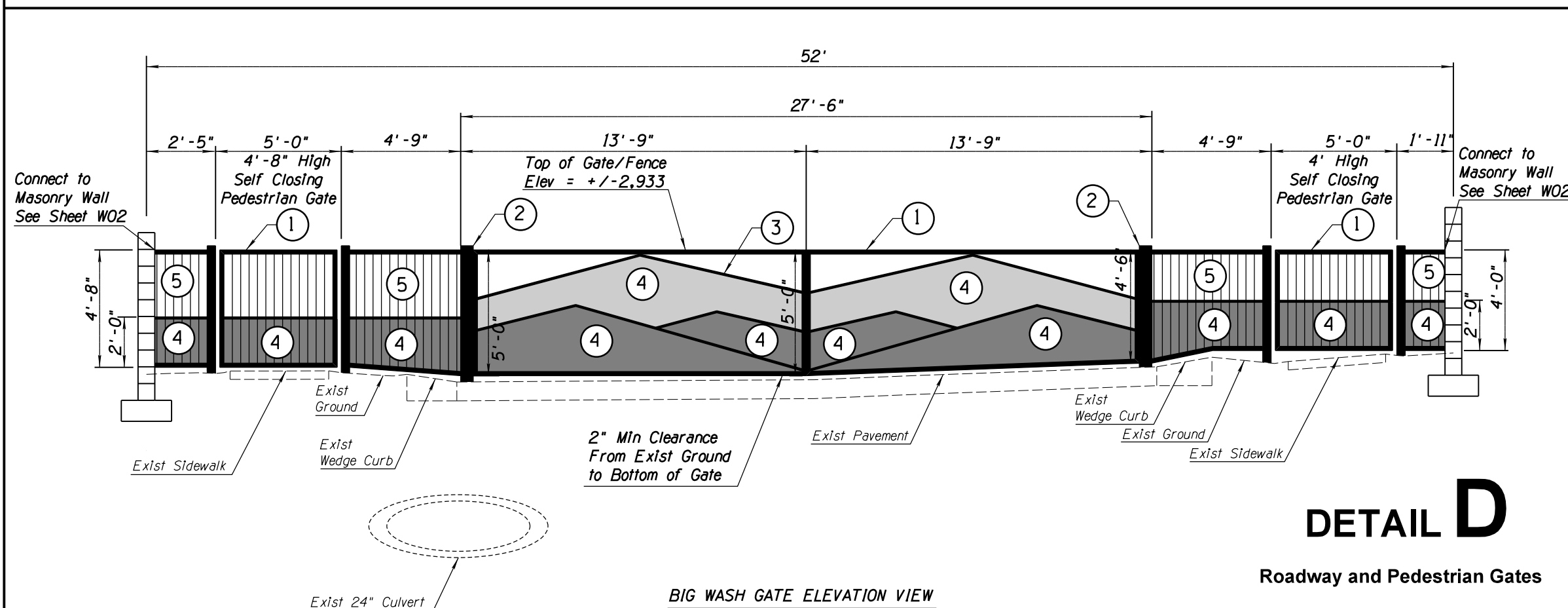
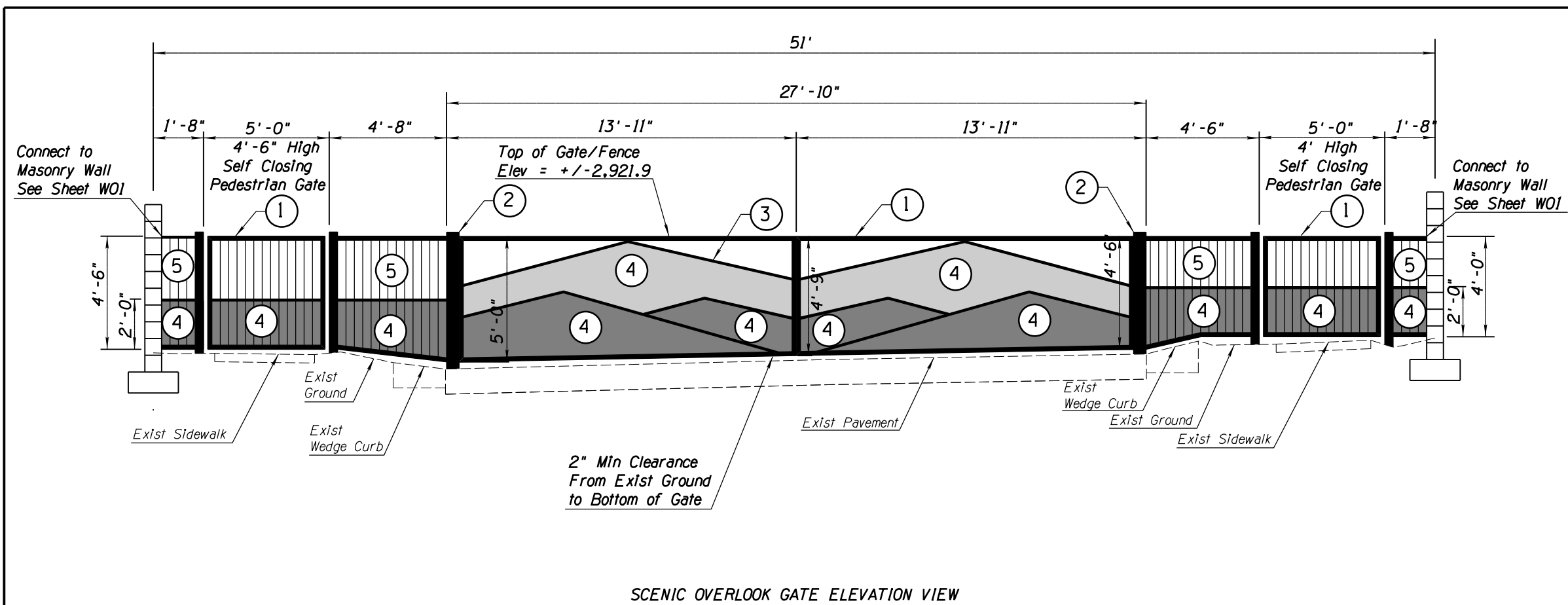


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Town of Oro Valley Department of Public Works

DETAIL SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. 0V30 21/22 12



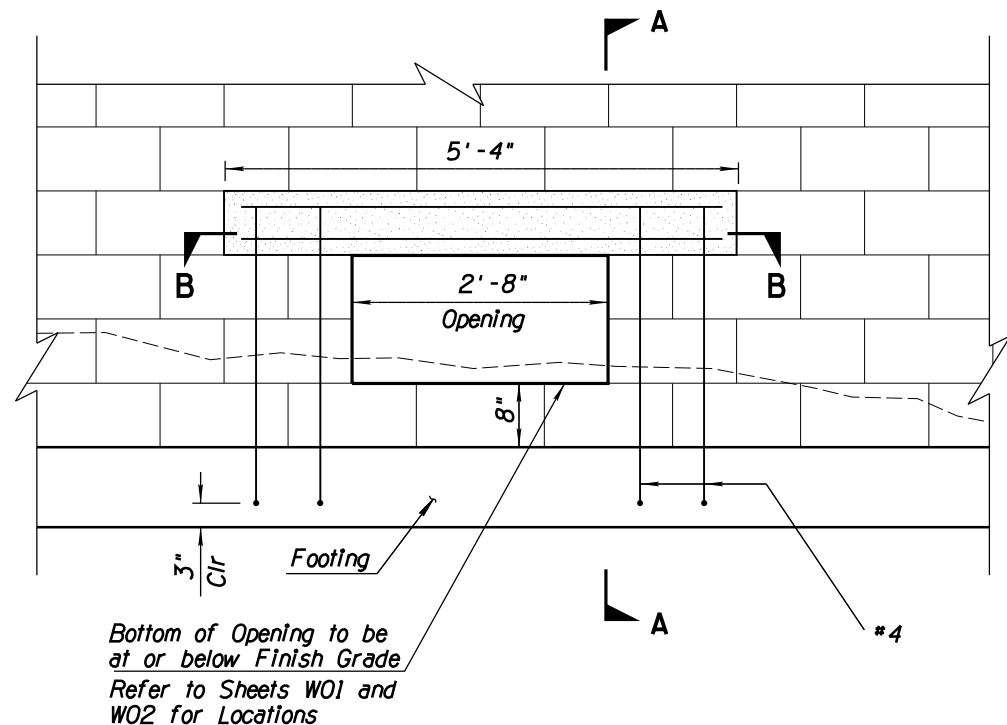
NOTES:

- Contractor to Adjust Gate Dimensions as Required in the Field and as Approved by the Engineer.
- Finish Shall be Oxidized & Sealed to Prevent Rust Drip or Primed and Painted a Rust Color. Contractor Shall Submit Samples of Proposed Finish to the Engineer.
- All Joints Shall be Welded. Grind all Welds Smooth.
- Contractor May Adjust Material Sizes Based on Gate Construction Requirements.
- Contractor Shall Supply Shop Drawings for Gates, Posts, Hinges Opener, All Hardware, Post Footings and Reinforcement.
- Contractor Shall Verify Swing of Gates Prior to Installation.
- These Gates Shall Automatically Open for All Vehicular traffic. The Gate Shall Remain Open during Daylight Hours and be closed from Dusk to Dawn. Contractor to Verify.
- Gate, Scenic Overlook Place shall be paid under bid item #9300111.
- Gate, Big Wash Overlook Place shall be paid under bid item #9300112.
- All materials, equipment and elements to construct and operate the Gates are paid for under bid item #9300111 and #9300112.

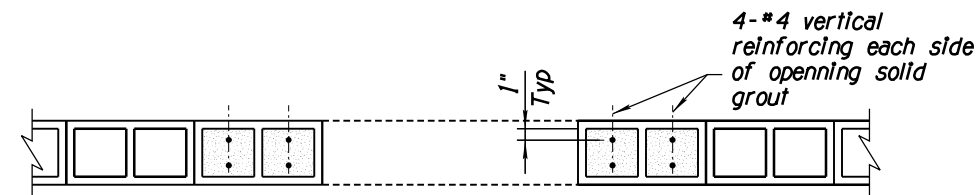
Contractor Shall Submit the Chosen Access Gate Material Specifications For Review/Approval by the Engineer.

- 2" Square Steel Tube 16 GA Frame Top, Bottom and Side Rails (Typical)
- Rectangular Steel Tube Post, Post & Footing Per Gate Manufacturer (Typical)
- 1" Square Steel Tube 18 GA Vertical and Horizontal Pickets (Typical)
- Perforated Sheet Steel 22 GA Square Hole Pattern Contractor to Verify Material Hole Size 1/2", 50% Open, Spot-Weld to Pickets
- 1/2" Square Steel Tube 20 GA Vertical Fencing

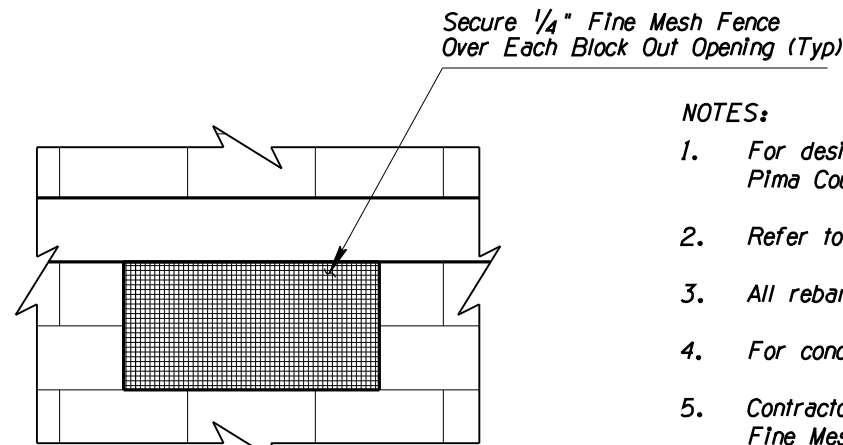
Scale: NTS Sheet D05 of D06 Page 7 of 18



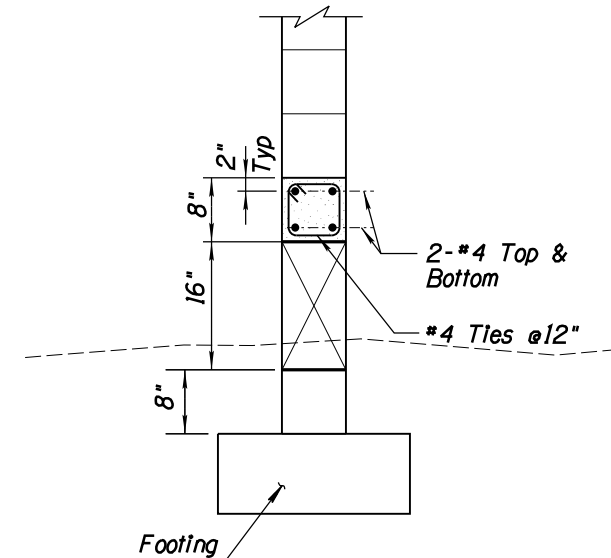
WALL ELEVATION
Scale: 1" = 1'-0"



SECTION B-B
Scale: 1" = 1'-0"



1/4" FINE MESH DETAIL
Scale: 1" = 1'-0"



SECTION A-A
Scale: 1" = 1'-0"

NOTES:

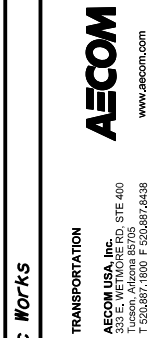
1. For design specifications and material properties refer to Pima County Development Services Detail, 8" Thick Masonry Wall.
2. Refer to Wall Sheets W01-W02 for Drainage Blockout Locations.
3. All rebar shall have 2" minimum clear cover unless otherwise noted.
4. For concrete lintel use class "S" concrete $f'c = 3000$ psi.
5. Contractor shall submit specifications for attachment of 1/4" Fine Mesh Fence over block out openings for approval by the Engineer.
4. All Work related to this detail is Incidental to Masonry Sound Wall Item No. 9140010.

DETAIL E

Wall Drainage Blockouts
Structural Detail

No.	Revision Description	Engineer	Date
AA	XL	BR	10/21
XL	BR	BR	10/21
BR	BR	BR	10/21
BR	BR	BR	10/21

No.	Revision Description	Engineer	Date
AA	XL	BR	10/21
XL	BR	BR	10/21
BR	BR	BR	10/21
BR	BR	BR	10/21



Town of Oro Valley Department of Public Works
DETAIL SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. OV30 21/22 12

SEE SHEET G02
MATCH LINE STA 831+00

BM4

835+00

BIG WASH
OVERLOOK
PLACE

840+00

2

845+00

SR 77 Cst & Exst R/W &

850+00

Sta 850+97.43

855+00

SR 77

860+00
PT Sta 860+17.78
POE Sta 861+00.00

N00°07'13"W
2641.07' (M)

N 16°08'52"E

BM6

Section Line

N00°23'29"W
2643.30' (M)

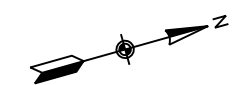
1/4 Corner

Sta 852+03.88, 283.19 Rt
N=532550.23104
E=1005287.93572

N89°28'49"E
2639.95' (M)

1/4 Section Line

N89°38'55"E
2595.04' (M)



SR 77 BENCHMARK SUMMARY TABLE				
BM Ref No	Northing	Eastng	Elevation	Description
4	531047.556	1004402.597	2928.740	3" ADOT AC
5	531955.173	1004850.237	2944.425	3" ADOT AC
6	532895.128	1005215.584	2960.955	3" ADOT AC

Town of Oro Valley Department of Public Works

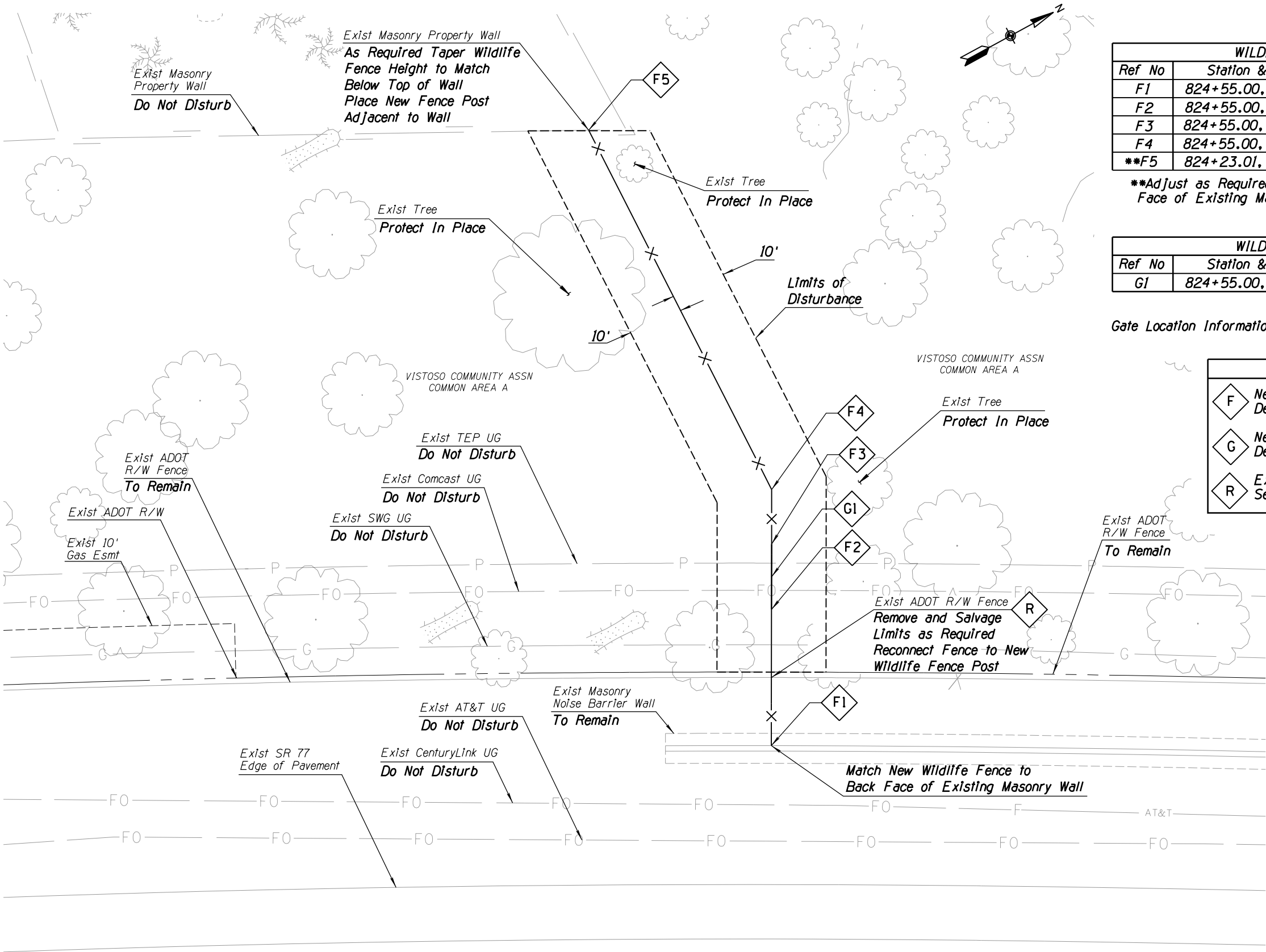
GEOMETRIC CONTROL SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. OV/30 21/22 12

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No.	Revision Description	Engineer	Date

Designed	AA		10/21
Drawn	KL		10/21
Checked	BR		10/21
Proj. Engr.	BR		10/21



WILDLIFE FENCE SUMMARY				
Ref No	Station & Offset	Northing	Easting	LF
F1	824+55.00, 86.50' Lt	530238.84	1003712.86	25'
F2	824+55.00, 111.50' Lt	530250.87	1003690.95	G1
F3	824+55.00, 123.50' Lt	530256.64	1003680.43	10'
F4	824+55.00, 133.50' Lt	530261.45	1003671.66	74'
**F5	824+23.01, 199.54' Lt	530263.66	1003597.69	
				Total = 109'

**Adjust as Required to Match New Post with Face of Existing Masonry Property Wall

WILDLIFE FENCE GATE SUMMARY				
Ref No	Station & Offset	Northing	Easting	LF
G1	824+55.00, 117.50' Lt	530253.75	1003685.69	12'
				Total = 1

Gate Location Information Provided is at Center of Gate

LEGEND	
F	New Wildlife Fence (6' High), Detail A, Bid Item #9030017
G	New Wildlife Fence Gate (6' High), Detail B, Bid Item #9030025
R	Existing Fence, Remove, Salvage and Replace See Limits This Sheet, Bid Item #2020106

- NOTES:
- 1) Adjust Wildlife Fence and Gate Post Locations As Necessary to Avoid Existing Utilities.
 - 2) Minimize Disturbance to Existing Vegetation and Protect Existing Trees in Place. Existing Vegetation Salvage by Others.
 - 3) Limits of Disturbance Areas Shall be Seeded as Approved by the Engineer and Shall be Paid for Under Item #8050004.

No.	Revision Description	Engineer	Date
			10/21
			10/21
			10/21
			10/21
			10/21
			10/21
			10/21
			10/21
			10/21

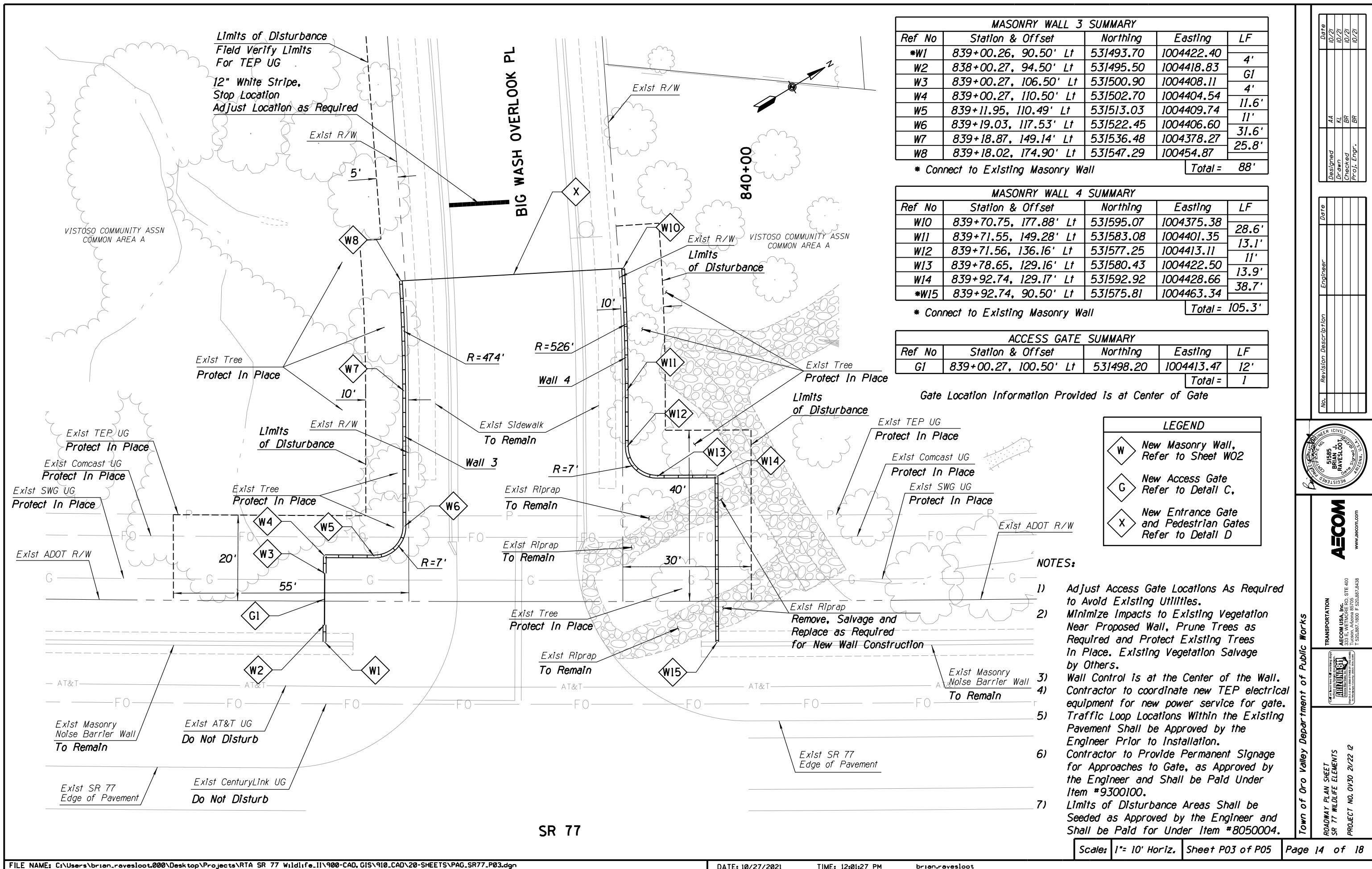
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			10/21
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			10/21

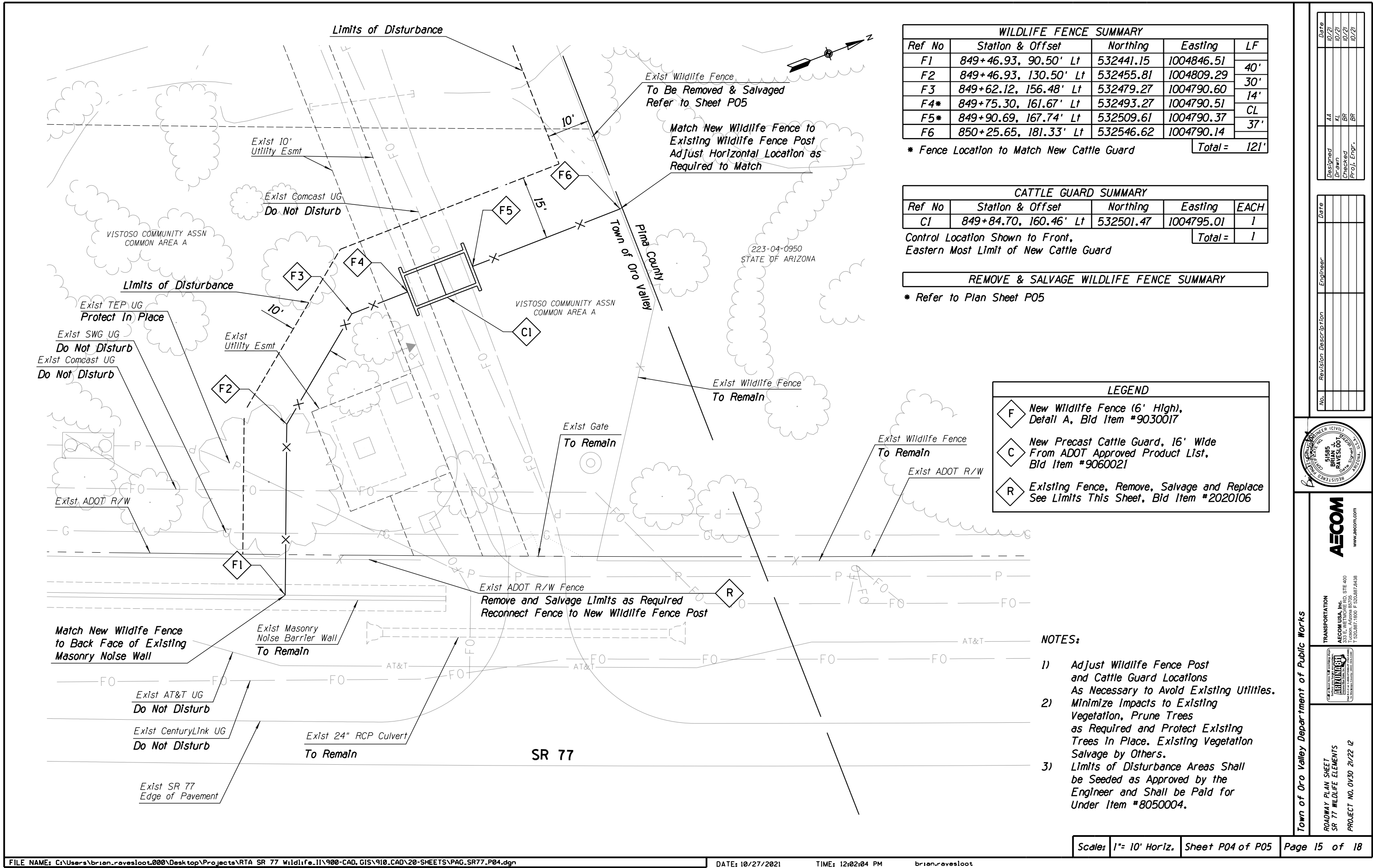


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Town of Oro Valley Department of Public Works
ROADWAY PLAN SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. OV30 21/22 12





Date

10/21

Designed

AA

Drawn

KL

Checked

BR

Prof. Engr.

BR

Date

Revision Description

Engineer

Professional Engineer (Civil)

STATE OF ARIZONA

BR

RAVESLOOT

15204871800 F 5204872438

TRANSPORTATION

AECOM USA, INC.

333 E. WETMORE RD. STE 400

PHOENIX, AZ 85012

www.aecom.com

ROADWAY PLAN SHEET

SR 77 WILDLIFE ELEMENTS

PROJECT NO. OV30 21/22 12

Town of Oro Valley Department of Public Works

RTA-SR 77 WILDLIFE ELEMENTS - PROJECT NO. OV30 21/22 12



REMOVE & SALVAGE WILDLIFE FENCE SUMMARY				
Ref No	Station & Offset	Northing	Easting	LF
WR1	850+26, 181' Lt	532546.6	1004790.1	383'
WR2	848+80, 537' Lt	532454.3	1004407.4	87'
WR3	847+89, 526' Lt	532460.8	1004385.4	
Total =				470'

LEGEND	
	Existing Wildlife Fence Remove and Salvage See Limits This Sheet, Bld Item #2020105

- NOTES:
- 1) Minimize Impacts to Existing Vegetation, Prune Trees as Required and Protect Existing Trees In Place. Existing Vegetation Salvage by Others.
 - 2) Limits of Disturbance Areas Shall be Seeded as Approved by the Engineer and Shall be Paid for Under Item #8050004.

Date	10/21
Designed	AA
Drawn	KL
Checked	BR
Proj. Engr.	BR

No.	Revision Description	Engineer	Date

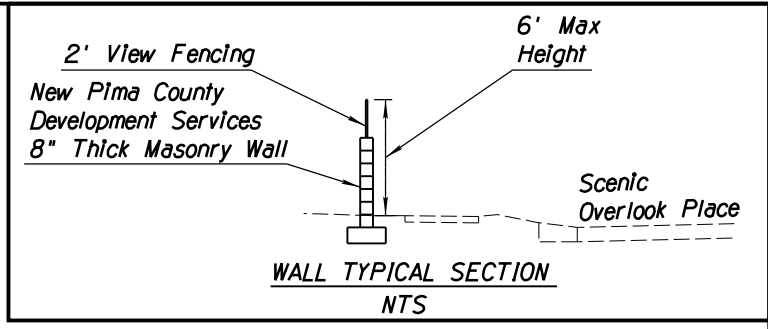
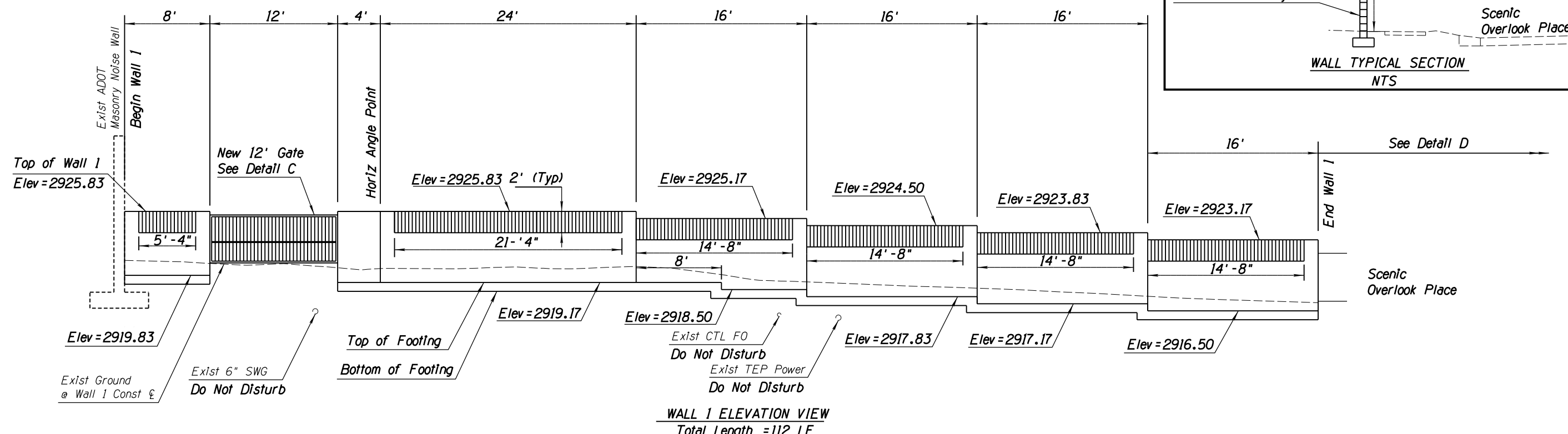


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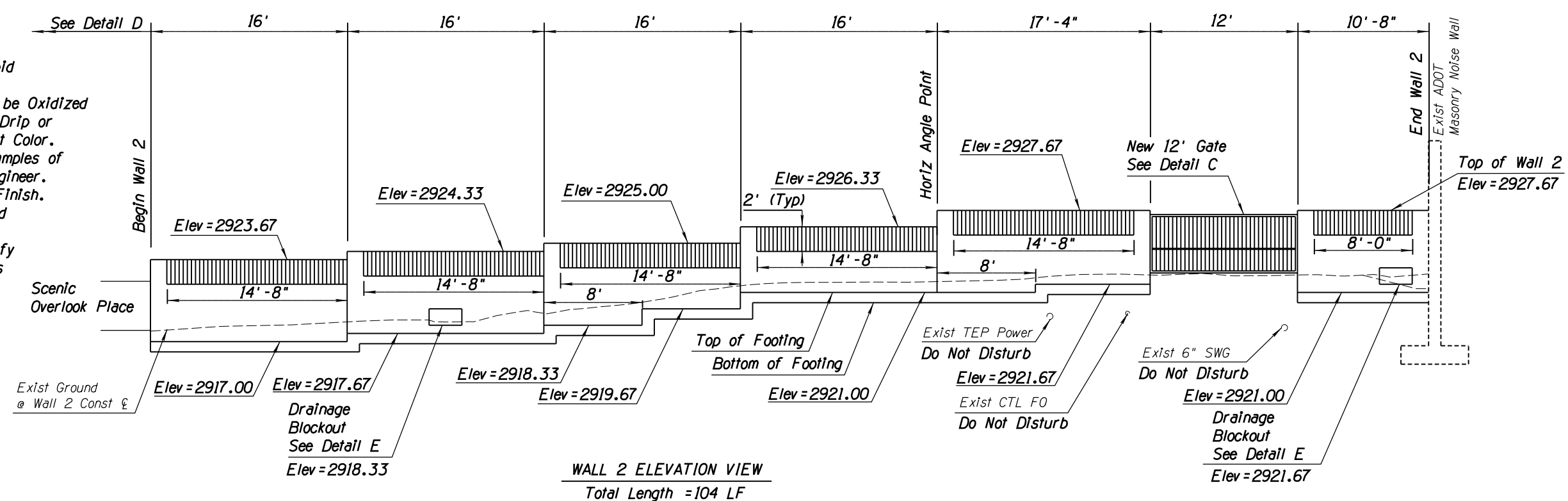
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T 520.487.1800 F 520.487.2438



Town of Oro Valley Department of Public Works
ROADWAY PLAN SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. 0130 21/22 12



- NOTES:**
- 1) Gate, Scenic Overlook Place shall be paid under bid item #9300111.
 - 2) View Fencing along top of wall shall be paid under bid item #9300115.
 - 3) View Fencing Finish Shall be Oxidized & Sealed to Prevent Rust Drip or Primed and Painted a Rust Color. Contractor Shall Submit Samples of Proposed Finish to the Engineer. Finish Shall match Gates Finish.
 - 4) Masonry Wall, shall be paid under bid item #9140010.
 - 5) Contractor Shall Field Verify Drainage Blockout Locations with the Engineer.



Date	10/21
Designed	AA
Drawn	KL
Checked	BR
Proj. Engr.	BR

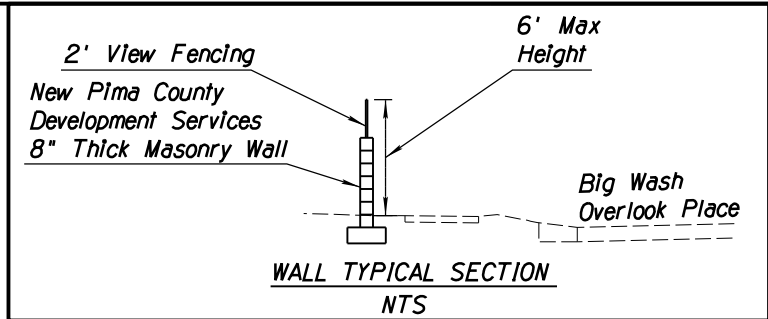
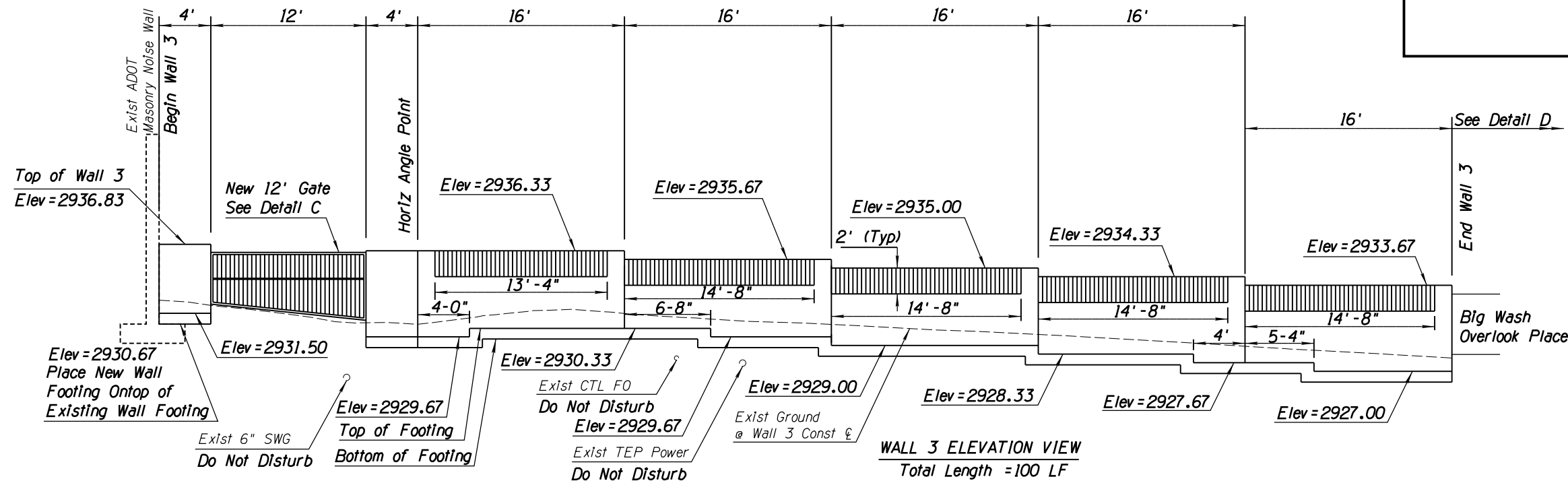
No.	Revision Description	Engineer	Date

Professional Engineer (Civil)
BRIAN J. RAVESLOOT
REGISTERED PROFESSIONAL ENGINEER
STATE OF ARIZONA
No. 15204877
Exp. 12/31/2024

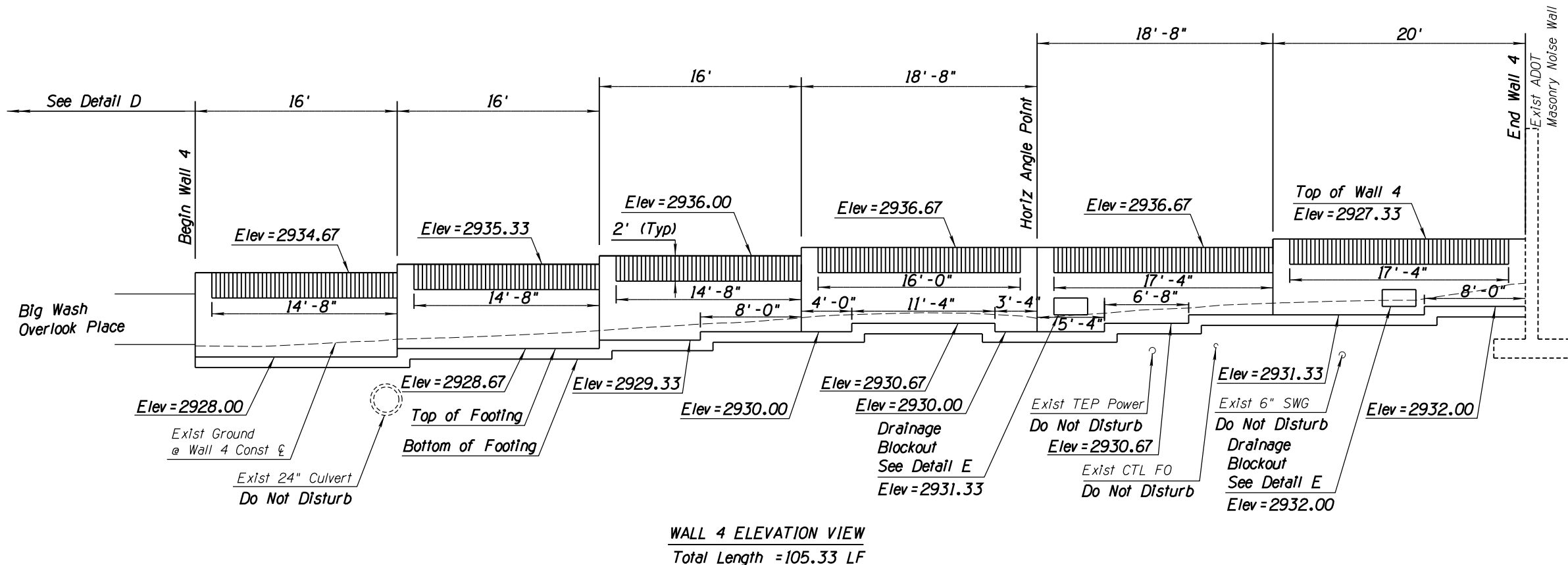
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Town of Oro Valley Department of Public Works

WALL PROFILE SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. 0V30 21/22 12



- NOTES:**
- 1) Gate, Big Wash Overlook Place shall be paid under bid item #9300112.
 - 2) View Fencing along top of wall shall be paid under bid item #9300115.
 - 3) View Fencing Finish Shall be Oxidized & Sealed to Prevent Rust Drip or Primed and Painted a Rust Color. Contractor Shall Submit Samples of Proposed Finish to the Engineer. Finish Shall Match Gates Finish.
 - 4) Masonry Wall, shall be paid under bid item #9140010.
 - 5) Contractor Shall Field Verify Drainage Blockout Locations with the Engineer.



Date	10/21
AA	
KL	
BR	
BR	
Designed	KL
Drawn	KL
Checked	BR
Proj. Engr.	BR

No.	Revision Description	Engineer	Date

Professional Engineer Seal:
BRIAN J. RAVESLOOT
P.E. No. 120487
State of Arizona

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Project Information:
Town of Oro Valley Department of Public Works
WALL PROFILE SHEET
SR 77 WILDLIFE ELEMENTS
PROJECT NO. 0V30 21/22 12