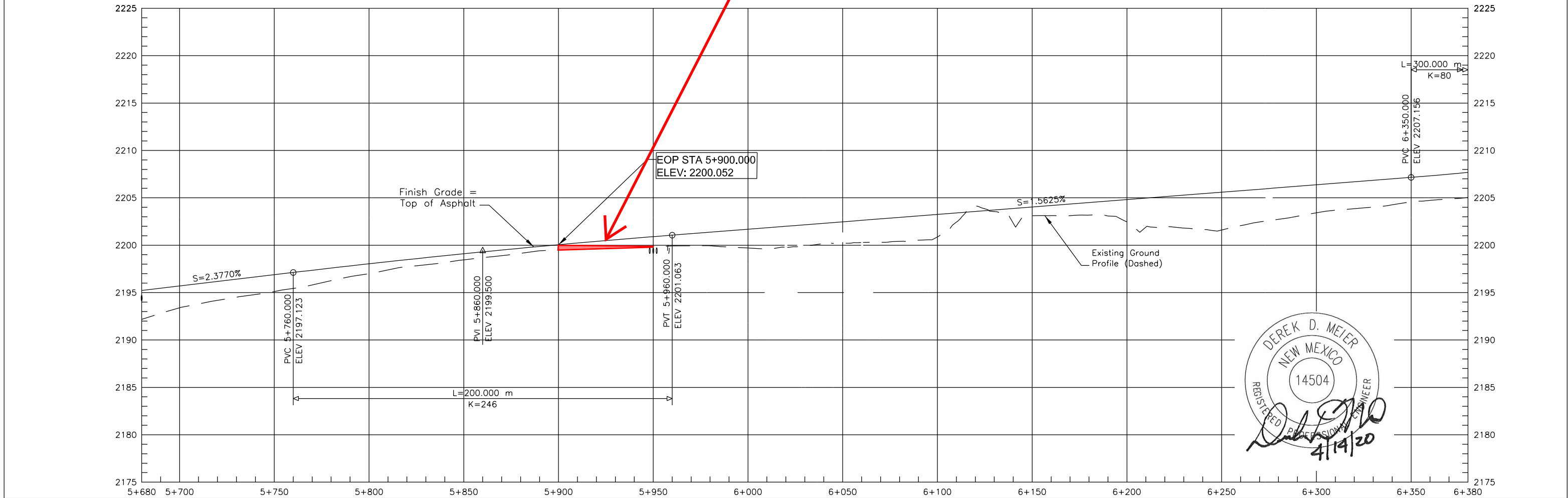
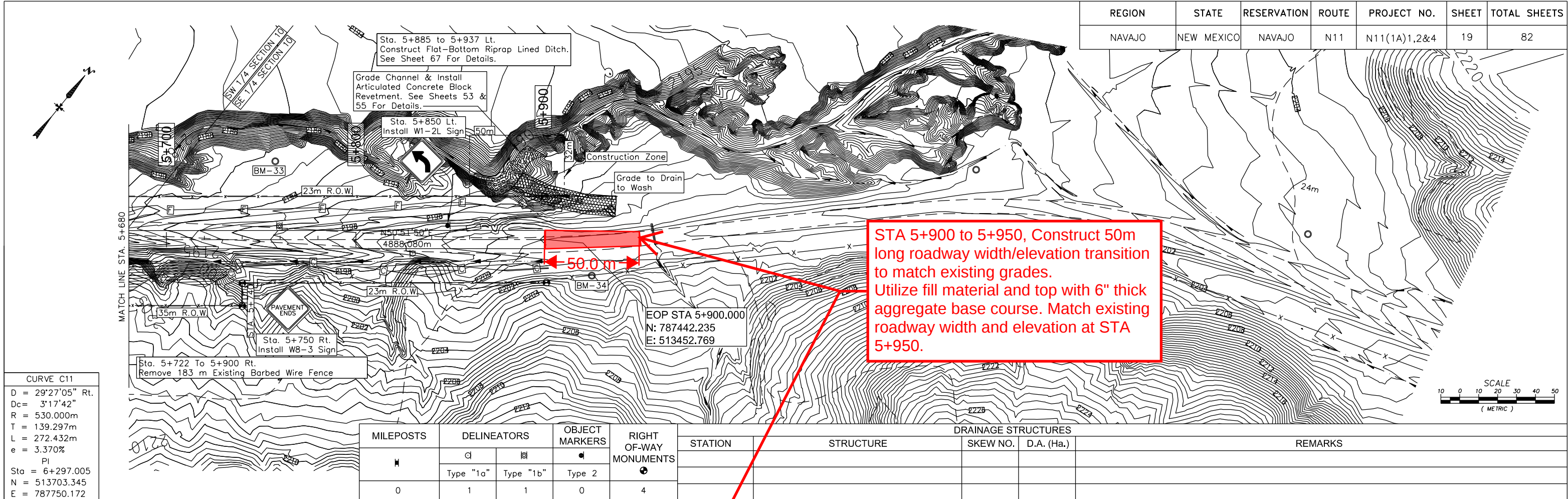


REGION	STATE	RESERVATION	ROUTE	PROJECT NO.	SHEET	TOTAL SHEETS
NAVAJO	NEW MEXICO	NAVAJO	N11	N11(1A)1,2&4	19	82



TURNOUTS AND OTHER LOCATIONS W/CATTLE GUARDS AND GATES

STATION	LOC.	TURNOUT SIZE	CATTLE GUARD		61902-5010 * TYPE I GATE (EA)	* TYPE II GATE (EA)	REMARKS
			61903-0310 2-UNIT	61903-0710 3-UNIT			
			1				
0+080.000	Lt.	4.5m x 18.2m	1			1	Drain Through Cattle Guard
0+462.000	Lt.	4.5m x 18.2m	1			1	
0+488.000	Rt.	4.5m x 25.2m			1		Construction Zone, Utility Access
0+871.000	Rt.	4.5m x 18.2m	1			1	
1+550.000	Lt.	4.5m x 35.2m	1			1	Construction Zone
1+606.000	Rt.	4.5m x 18.2m	1			1	
2+025.000	Lt.	4.5m x 30.2m	1			1	Construction Zone
3+875.000	Rt.	7.0m x 72.2m		1		1	Construction Zone
3+875.000	Lt.	7.0m x 68.2m		1		1	Construction Zone
4+212.000	Rt.	4.5m x 22.2m	1			1	Construction Zone
4+775.000	Rt.	N/A			1		
4+775.000	Lt.	7.0m x 18.2m			2**		Double Swing Gate, To Windmill/Stock Pond
5+900.000	℄			1			Placed on Roadway at EOP
		TOTAL	7	3	4	9	Construction Zone

* Type I and Type II gates associated with a cattle guard are included in the cost of the cattle guard. No separate payment will be made. Gates not associated with cattle guards will be paid under appropriate items listed in the Bid Schedule.

** See General Note 34 for additional gate contruction requirement.

EXISTING UTILITY CROSSINGS

LOCATION	DESCRIPTION	SKEW	REMARKS*
0+052.440	Overhead Power Line	92°	Protect In Place
0+056.000	Underground Fiber/Copper Telephone Lines (2)	92°	Work by others--new inner duct line to be placed and lines to relocate by Frontier.
0+109.000	Underground Water Line Crossing	92°	Protect waterline in place. Extend 400mm steel casing to new ROW limits.
0+496.948	Underground Water Line Crossing	97°	Protect In Place
2+326.600	Overhead Power Line	79°	Protect In Place
3+685.000	Underground Water Line Crossing	82°	Protect waterline in place. Install 400mm steal casing with in new ROW limits.
3+762.100	Overhead Power Line	120°	Protect In Place

*Remarks Related to Work by Others is Work Assumed to be Required by the BIA. Actual Work Required/Performed by Utility Owner May Vary.

PAVING QUANTITIES

40201-0500: HOT ASPHALT CONCRETE PAVEMENT,CLASS "B" GRADING "B"			40502-0800 ASPHALT BINDER PG 52-28	41101-5000 PRIME COAT GRADE PEP
LOCATION	VOLUME (m³)	WEIGHT (t)	t	t
N11 (APPROXIMATE)				
0+005.864 to 3+946.217	3,046	7,402	444	54.3
3+984.651 to 5+900.000	1,476	3,587	215	26.4
Guardrail Widening at Bridge Approaches	13	32	2	0.1
TURNOUTS				
0+080 Lt.	7	18	1.08	0.13
0+462 Lt.	7	18	1.08	0.13
0+488 Rt.	9	23	1.38	0.17
0+871 Rt.	7	18	1.08	0.13
1+550 Lt.	7	18	1.08	0.13
1+606 Rt.	7	18	1.08	0.13
2+025 Lt.	7	18	1.08	0.13
3+875 Lt.	15	36	2.15	0.26
3+875 Rt.	15	36	2.15	0.26
4+212 Rt.	7	18	1.08	0.13
4+775 Lt.	18	43	2.58	0.31
TOTAL	4,641	11,285	676.82	82.71

* ITEM 20304-1000: REMOVAL OF STRUCTURES AND OBSTRUCTIONS

STATION	LOCATION	REMARKS
0+025	24 m Lt.	Remove & Salvage Cattle Guard For Owner Pickup
0+027	12 m Rt.	Remove "Keep Your Community Clean" Sign & Place Outside ROW
0+788	16 m Rt.	Move Memorial Outside R.O.W.

*See Note #19 on sheet #3.

ITEM 21102-2000: ROADWAY
OBLITERATION, METHOD 2

STATION TO STATION	AREA (m²)
0+008 to 0+073 Lt.	585
0+933 to 1+101 Lt.	1,157
1+848 to 2+012 Lt.	974
2+166 to 2+309 Rt.	609
3+501 to 3+868 Rt.	3,365
3+882 to 3+923 Rt.	267
3+877 to 3+907 Lt.	241
3+882 to 4+206 Rt.	2,561
4+218 to 4+258 Rt.	126
4+455 to 5+451 Rt.	6,630
TOTAL	16,515



ITEM 61701-5000 GUARDRAIL SYSTEM SGR-04B, TYPE PDE 02 WITH MSKT-TL3-8 END TERMINAL & THRIE BEAM GUARDRAIL TRANSITION

STATION TO STATION	LOCATION	LENGTH (m)	REMARKS
3+908.596 to 3+947.651	Rt.	39.055	1
3+927.646 to 3+947.651	Lt.	20.005	2
3+983.217 to 4+003.222	Rt.	20.005	2
3+983.217 to 4+022.272	Lt.	39.055	1
TOTAL		118.12	

1= INCLUDES END TERMINAL SYSTEM, STANDARD W-BEAM GUARDRAIL AND THRIE BEAM GUARDRAIL TRANSITION

2= INCLUDES END TERMINAL SYSTEM AND THRIE BEAM GUARDRAIL TRANSITION.

ESTIMATED EARTHWORK QUANTITIES

STATION TO STATION	20401-0000 ROADWAY EXCAVATION		20410-0000 BORROW	
	CUT(m³)	FILL (m³)	WASTE (m³)	(m³)
0+005.864 to 3+945.82	134305	76356	57949	0
BRIDGE STA.3+945.82 to 3+985.05	0	0	0	0
3+985.05 to 5+900.00	7017	65931	0	58914
TURNOUTS	1173	5950	0	4777
PUERCO RIVER CHANNEL GRADING (SHT. 33)	2477	1985	492	0
CHANNEL EROSION STA. 5+862 to 5+900	0	11883	0	11883
EOP RDWY TRANSITION (50m x 13m x 1.5m)				65
SUBTOTAL	144972	162104	58441	75674 75639
PROJECT TOTAL/USE	145000	162200	0	17280 17265

NOTES:

1. A 15% SHRINKAGE FACTOR HAS BEEN APPLIED TO THE FILL QUANTITIES SHOWN PER THE GEOTECH REPORT DATED 8/04/2010. FINAL QUANTITIES SHALL BE BASED ON THE IN-PLACE SURVEYED CROSS SECTION AMOUNTS PER THE FP-14 SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

2. CONTRACTOR SHALL PLAN HIS OPERATIONS PROPERLY TO UTILIZE THE EXCESS EXCAVATION MATERIAL (FROM STATION 0+005.864 TO 3+945.82) ON THE PROJECT SITE BEFORE UTILIZING BORROW PIT MATERIAL ON THE JOB.

ITEM No. 61102-2950; 150mm WATERINE, POLYVINYL CHLORIDE (PVC)

STATION	LOCATION:	DESCRIPTION	QUANTITY (m)	REMARKS:
0+109	varies	existing 6" NTUA waterline crossing	30.0	Install 150mm (6") waterline as needed to install the new casing. Offset from the existing waterline and center the new waterline on the new roadway centerline.
3+685	23m LT to 23m RT	existing 6" NTUA waterline crossing	50.0	Install 150mm (6") waterline as needed to extend the casing to proposed ROW lines per NTUA details. Final waterline location/extension limits to be verified in the field.
TOTAL:			80.0	

ITEM No. 61103-1450; 400mm ENCASEMENT PIPE, GALVANIZED STEEL

STATION	LOCATION:	DESCRIPTION	QUANTITY (m)	REMARKS:
0+109	varies	existing 6" NTUA waterline crossing	22.9	Install 400mm (16") waterline casing on new pipe to the limits of new roadway fill construction. Center the casing on the new roadway centerline.
3+685	23m LT to 23m RT	existing 6" NTUA waterline crossing	46.0	Install 400mm (16") waterline casing extensions on existing pipe to proposed ROW lines per NTUA details. Final casing location/extension limits to be verified in the field.
TOTAL:			68.9	

REGION	STATE	RESERVATION	ROUTE	PROJECT NO.	SHEET	TOTAL SHEETS
NAVAJO	NEW MEXICO	NAVAJO	N11	N11(1A)1,2&4	6	82

* ITEM 62101-0000: RIGHT OF WAY MONUMENT

* ITEM 62102-0000: REFERENCE MARKER

STATION	DESCRIPTION	LOCATION	MONUMENT	MARKER
0+025.150	Begin R.O.W. Lt.	23 m Lt.	1	1
0+025.150	Begin R.O.W. Rt.	23 m Rt.	1	1
0+111.231	PC 1	23 m Rt. & Lt.	2	2
0+171.300	PT 1	23 m Rt. & Lt.	2	2
0+270.211	PC 2	23 m Rt. & Lt.	2	2
0+436.034	PT 2	23 m Rt. & Lt.	2	2
0+943.494	PC 3	23 m Rt. & Lt.	2	2
1+145.239	PT 3	23 m Rt. & Lt.	2	2
1+236.574	PC 4	23 m Rt. & Lt.	2	2
1+436.154	PT 4	23 m Rt. & Lt.	2	2
1+495.485	PC 5	23 m Rt. & Lt.	2	2
1+641.757	PT 5	23 m Rt. & Lt.	2	2
1+807.724	PC 6	23 m Rt. & Lt.	2	2
2+004.091	PT 6	23 m Rt. & Lt.	2	2
2+499.637	PC 7	23 m Rt. & Lt.	2	2
2+718.569	PT 7	23 m Rt. & Lt.	2	2
3+209.123	PC 8	23 m Rt. & Lt.	2	2
3+525.478	PT 8	23 m Rt. & Lt.	2	2
3+900.000	POT	23 m & 50 m Lt.	2	2
3+900.000	POT	23 m & 50 m Rt.	2	2
4+020.000	POT	23 m & 50 m Lt.	2	2
4+020.000	POT	23 m & 50 m Rt.	2	2
4+115.280	PC 9	23 m Rt. & Lt.	2	2
4+371.585	PT 9	23 m Rt. & Lt.	2	2
4+846.156	PC 10	23 m Rt. & Lt.	2	2
5+620.000	POC	23 m & 35 m Rt.	2	2
5+669.628	PT 10	35 m Rt. & 23 m Lt.	2	2
5+740.000	POT	35 m Rt. & 23 m Rt.	2	2
5+900.000	EOP	23 m Rt. & Lt.	2	2
TOTAL			56	56

*See Note #9 on sheet #65.

ITEM 21301-4000: SUBGRADE STABILIZATION W / ROADBOND EN-1, 152mm DEPTH

STATION TO STATION	WIDTH (m)	LENGTH (m)	SQUARE METERS
N11			
0+005.864 TO 5+900.000	12.68	5894.14	74737

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS
NAVAJO REGION OFFICE * DIVISION OF TRANSPORTATION

QUANTITY TABLES

Designed by: WHPacific Date: 5/10

Drawn by: WHPacific Date: 5/10

Revised by: WHPacific Date: 9/11

File Name: N11(1A)–QTY sht 6

