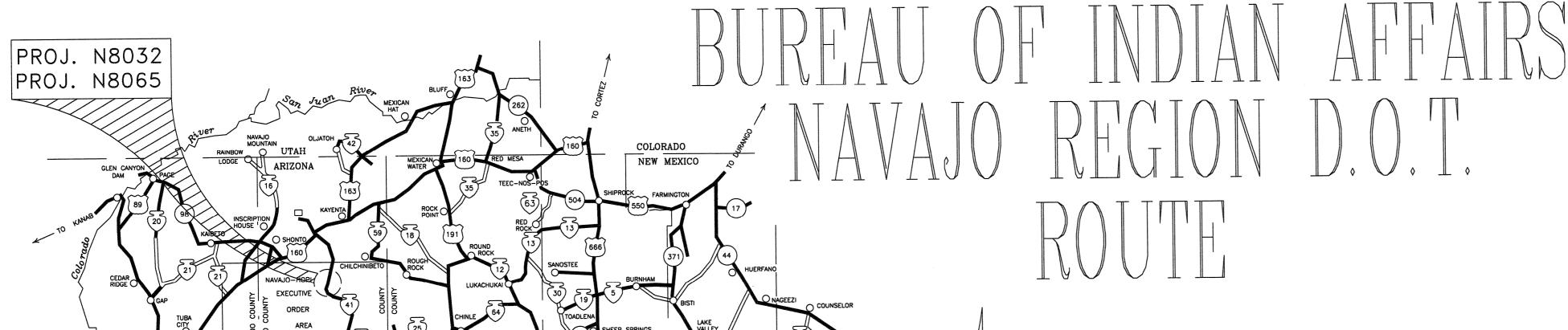
UNITED STATES DEPARTMENT OF THE INTERIOR

RIPEAU OF INDIAN AFFAIRS



	CONSTRUCTION PLANS INDEX					
SHEET No.	DESCRIPTION					
1	TITLE SHEET					
2	TYPICAL SECTION, ESTIMATED QTYS. ALIGNIMANET TABLES and GENERAL NOTES					
3	N8032 SITE PLAN and CROSS SECTION DETAIL					
4	N8032 CONRETE SLOPE PAVING DETAIL					
5	N8065 SITE PLAN and CROSS SECTION DETAIL					
6	N8065 CONRETE SLOPE PAVING DETAIL					
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9	STORM WATER POLLUTION & EROSION/SEDIMENT CONTROL					
10	STORM WATER POLLUTION & EROSION/SEDIMENT CONTROL					

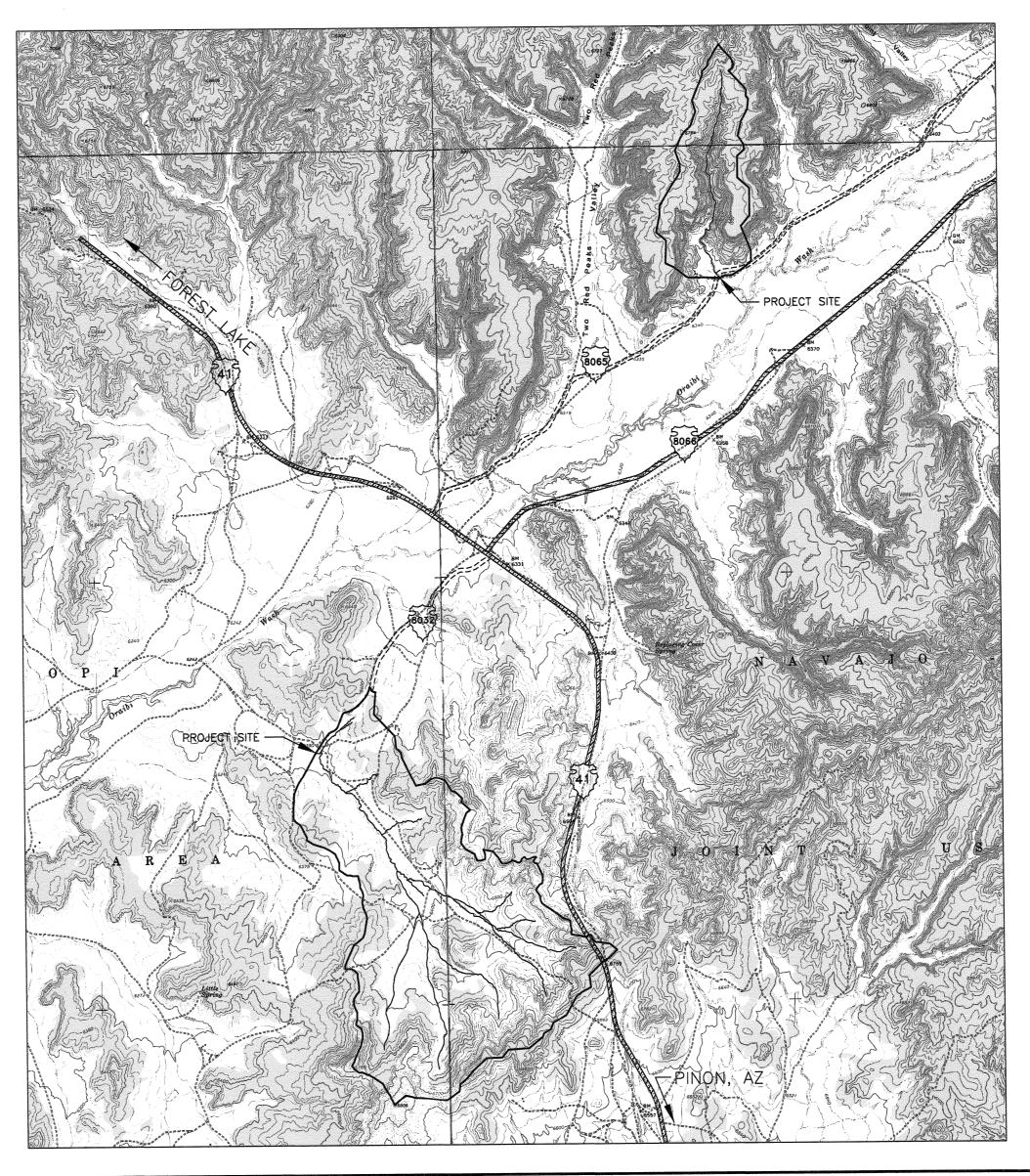
PROJECT N8032(1)2 & N8065(1)2

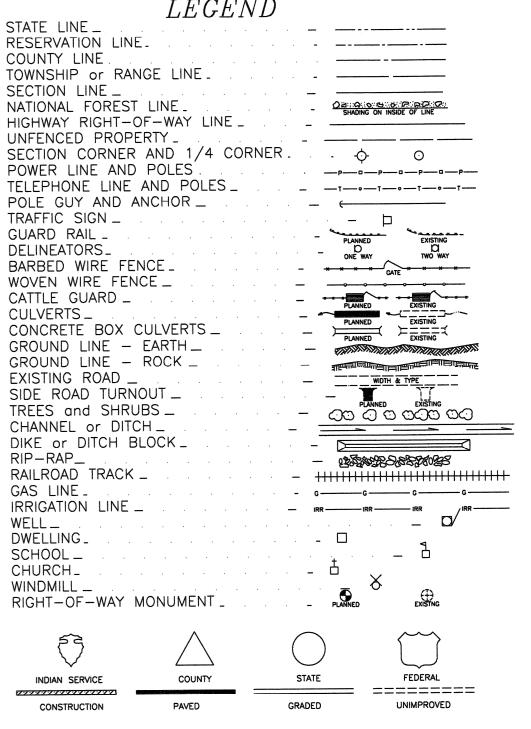
ROAD MAINTENANCE REPAIRS

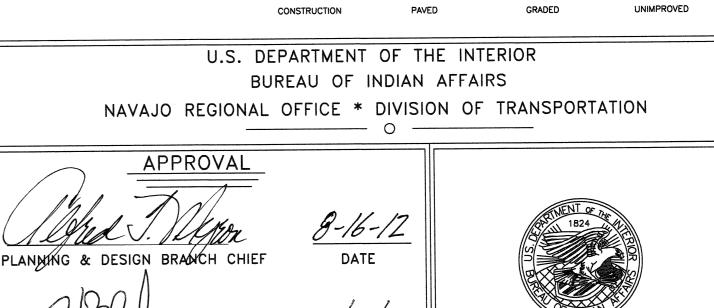
PROJECT LENGTH						
STATION TO STATION	METER	KILOMETER				
N8032:						
B.O.P. STA. 0+000.00						
E.O.P. STA. 100.49	100.49	0.10				
N8065						
B.O.P. STA. 0+000.00						
E.O.P. STA. 0+152.94	152.94	0.15				
TOTAL	253.43	0.25				

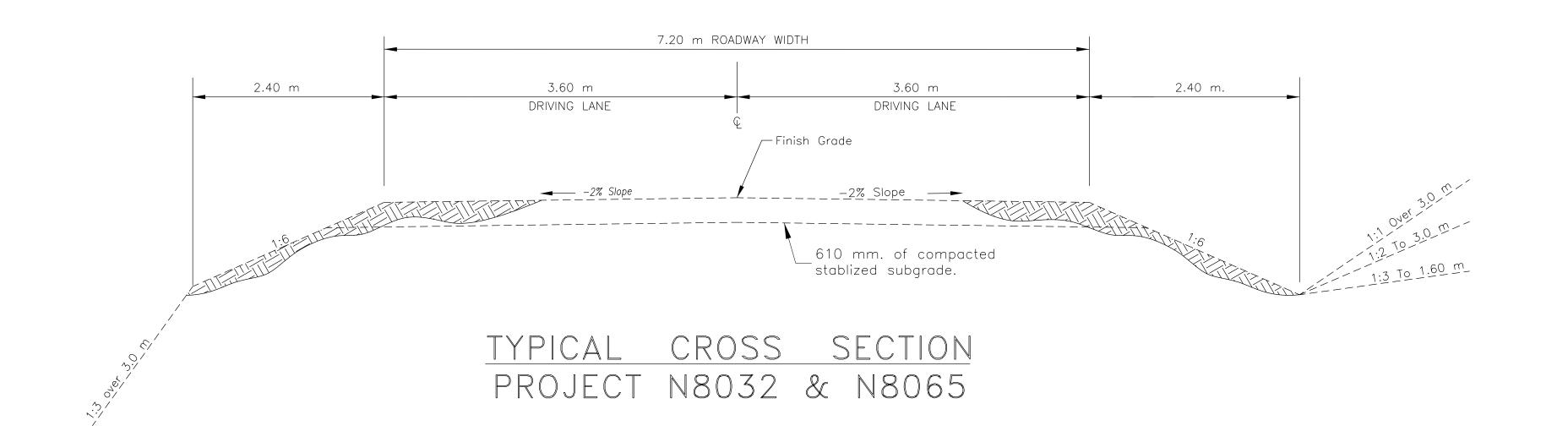
NAVAJO RESERVATION MAP

DESIGN DATA-MAINLINE	
Design Speed 6	80 km/h
Maximum Radius of Curve	135 m
Maximum Gradient	0.00%
Minimum Stopping Sight Distance	85 m
Minimum Passing Sight Distance	
Average Daily Traffic (2002)	100 vpd
Estimated ADT (2025)	140 vpd
Maximum Super Elev. (e max.)_	NC
Design Hourly Volume (DHV)	
Right-of-Way Width Lt. & Rt	









ITEM	DESCRIPTION	N8032(1)	N8065(1)	UNIT AS-BUI	LTS
15101-0000	Mobilization	All Req'd	All Req'd	Lump Sum	
15708-0000	Temporary Soil Erosion Control	All Req'd	All Req'd	Lump Sum	
15714-1000	Temporary Straw Mulching	0.10	0.12	ha	
20304-1000	Removal of Structures and Obstructions	All Req'd	All Req'd	Lump Sum	
20401-0000	Roadway Excavation	72	5	m ³	
20403-0000	Unclassified Borrow	2195	1898	m ³	
20601-0000	Development of Water Supply	0.08	0.08	M-gal	
25112-2000	Wire Enclosed Riprap, Class 2	33.12	19.60	m ³	
60101-0000	Minor Concrete, Class A(AE) Type I I	25.40	25.60	m ³	
60201-1710	1981 mm Corrugated Steel Pipe Culvert, Galvanized Coated	93.27	0	m	
60201-1810	2134 mm Corrugated Steel Pipe Culvert, Galvanized Coated	0	40.23	m	
60701-1000	Remove, Clean and Stockpile Culverts	10.00	15.91	m	
62510-1000	Seeding, Dry Method	0.10	0.12	ha	
62901-1100	Erosion Control Product, Type 4	525.00	588.00	m ²	
63501-0000	Temporary Traffic Control	All Req'd	All Req'd	Lump Sum	
63509-1000	Flaggers	1,521.00	1,522.00	Man Hrs	

N8032(1)2 HORIZONTAL ALIGNMENT TABLE							
POINT STATION (m)		ELEMENT	DIRECTION	NORTHING (m)	EASTING (m)		
BOP	0+000.000			575,708.374	204,390.041		
		100.494	N 3118'65"E				
EOP	0+100.494			575,794.464	204,441.882		
	N8(<u> 265(1)2 HORIZONI</u>	AL ALIGNME	NT TABLE			
POINT	STATION (m)	ELEMENT	DIRECTION	NORTHING (m)	EASTING (m)		
ВОР	0+000.000			580,904.510	208,913.759		
		Linear= 22.770 (m)	S 68°24'50W				
PC	0+022.770			580,896.133	208,892.586		
PI	0+066.478	CURVE DATA		580,875.933	208,853.826		
		Delta = 47°36'27.94"Lt.					
		R = 99.0802 (m)					
		L = 82.326 (m)					
		T = 43.707 (m)					
PT	0+105.097			580,833.688	208,842.613		
		Linear= 47.842 (m)	S 13°09'10"W				
EOP	0+152.939			580,787.101	208,831.727		
	AZSP-EZ						

EARTHWORK QUANTITIES

PROJECT	CUT (m³)	FILL (m³)	BORROW (m³)	WASTE (m³)		
N8032(1)	71.81	2,266.12	2,194.31	0.00		
N8065(1)	4.82	1,902.17	1,897.35	0.00		
TOTAL:	76.63	4,168.29	4,091.66	0.00		
20% Shrinkage Factor Applied to Fill						

60701-1000 REMOVE CLEAN & STOCKPILE

PROJECT	STATION (m)	LOCATION	LENGTH (m)	REMARKS
N8032	0+050.15	CL	3.72	STOCKPILE AT CHINLE MAINT. YARD
N8065	0+079.03	CL	22.186	STOCKPILE AT CHINLE MAINT. YARD

AREA	STATE	RESERVATION	ROUTE	PROJECT NO.	SHEET	TOTAL SHEETS
NAVAJO	ARIZONA	NAVAJO	N8032	N8032/ N8065	2	10

GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (**FP-03**), AND THE SUPPLEMENTAL SPECIFICATIONS FOR THIS PROJECT.

2. ALL PERMANENT AND TEMPORARY ROADSIDE SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION) AND IN ACCORDANCE WITH THE DETAILS ON THESE PLANS. PLACEMENT PERMANENT TRAFFIC SIGNS SHALL BE FIELD ADJUSTED AS DIRECTED BY THE COR/AOTR, AT NO ADDITIONAL COST TO THE GOVERNMENT.

3. THE TEMPORARY TRAFFIC CONTROL DETAILS SHOWN REFLECTS GENERAL REQUIREMENTS FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THESE DETAILS, TAKING INTO ACCOUNT THE CONTRACTOR'S CONSTRUCTION SEQUENCING PLAN, MUTCD, AND THE SUPPLEMENTAL SPECIFICATIONS FOR SECTION 635.-TEMPORARY TRAFFIC CONTROL.

4. THE DESIGN FEATURES INCLUDING HORIZONTAL AND VERTICAL ALIGNMENTS, TYPICAL SECTIONS, AND OTHER DESIGN DETAILS SHOWN SHALL NOT BE ALTERED OR MODIFIED IN ANYWAY DURING CONSTRUCTION WITHOUT THE EXPRESSED WRITTEN DIRECTION AND WRITTEN APPROVAL OF THE NAVAJO REGION OFFICE-DIVISION OF TRANSPORTATION (NRDOT) DIVISION MANAGER, UNLESS OTHERWISE NOTED IN THESE PLANS OR SPECIFICATIONS. DRAINAGE STRUCTURES AND TURNOUTS SHALL BE INSTALLED AS SHOWN WITH ONLY MINOR CORRECTIONS IN LOCATION, SKEW, AND/OR INVERT ELEVATIONS AS NEEDED TO FIT FIELD CONDITIONS.

5. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND EXPENSE FOR DISPOSAL OF TRASH AND/OR CONSTRUCTION DEBRIS IN ACCORDANCE WITH SECTIONS 107 AND 203 OF THE **FP-03** AS WELL AS ANY AND ALL PERMIT REQUIREMENTS. THIS WORK SHALL BE INCIDENTAL OBLIGATIONS OF THE CONTRACTOR.

6. NO WORK SHALL BE PERFORMED OR GROUND DISTURBED OUTSIDE OF THE DESIGNATED CONSTRUCTION LIMITS IN ACCORDANCE WITH SECTION 107 OF THE **FP-03** WITHOUT WRITTEN APPROVAL BY THE NRDOT MANAGER UNLESS OTHERWISE SHOWN AND LABELED ON THESE PLANS AS "CONSTRUCTION ZONE". IN NO CASE SHALL ANY WORK BE PERFORMED OUTSIDE THE DESIGNATED RIGHTS-OF-WAY LIMITS WITHOUT WRITTEN APPROVAL FROM THE NRDOT DIVISION MANAGER, UNLESS OTHERWISE SHOWN AND CALLED OUT ON THESE PLANS AS "CONSTRUCTION ZONE". THE CONSTRUCTION LIMIT IS THE CATCH POINT EARTHWORK LIMIT PLUS 3.0 METERS, NOT TO EXCEED THE RIGHT-0F-WAY LIMITS.

7. THE DETAILS SHOWN ON THE STORM WATER POLLUTION AND EROSION/SEDIMENT CONTROL DETAILS ARE GENERAL REQUIREMENTS TO BE USED BY THE CONTRACTOR IN PREPARING A STORM WATER POLLUTION PREVENTION PLAN ALONG WITH THE REQUIREMENTS IN SECTION 157 OF THE SUPPLEMENTAL SPECIFICATION AND SPECIAL CONTRACT REQUIREMENTS. THE SWPPP IS ONLY REQUIRED AT THE DRAINAGE PIPE REPLACEMENT LOCATIONS. THE CONTRACTOR IS REQUIRED TO SUBMIT COURTESY COPY OF THE APPROVED SWPPP TO THE NAVAJO NATION WATER QUALITY EPA OFFICE.

8. THE QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY AND TO COMPARE AND CANVAS BIDS. ACTUAL PAY QUANTITIES WILL BE DETERMINED IN THE FIELD FOR AUTHORIZED CHANGES THAT AFFECT THE QUANTITIES. ANY OVER-RUN OR UNDER-RUN OF QUANTITIES SHALL BE SUBJECT TO FAR 52.211-18, VARIATION IN ESTIMATED QUANTITY.

9. STRUCTURAL EXCAVATION AND BEDDING/BACKFILL OF ALL DRAINAGE STRUCTURES (CULVERTS AND CONCRETE HEAD/WING WALLS) SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF STRUCTURES. BEDDING AND BACKFILL MATERIAL SHALL MEET ALL REQUIREMENTS OF FP-03, SECTIONS 209 AND 704. APPROVED EXCESS EXCAVATION MATERIAL MAY BE USED TO REBUILD EARTHEN DITCH BLOCKS, AND/OR PLACED ALONG ROADWAY SHOULDERS AS EMBANKMENT IN AREAS ADJACENT TO THE REMOVAL AND AS DIRECTED BY THE COR/AOTR.

10. THE EARTHWORK TABLE SHOWN IS TO ASSIST THE CONTRACTOR IN ESTABLISHING A BID UNDER THE EARTHWORK ITEMS SHOWN IN THE BID SCHEDULE. ANY BORROW MATERIAL CALLED FOR ON THE PLANS SHALL BE TAKEN FROM CONTRACTOR IDENTIFIED SOURCES OUTSIDE THE RIGHT-OF-WAY LIMITS. IT IS THE SOLE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR TO PROVIDE ANY NECESSARY BORROW MATERIAL FOR THIS PROJECT INCLUDING ALL NECESSARY PERMITS. ALL EXCAVATION, BORROW, WASTE AND EMBANKMENT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS 20401-0000 AND 20403-0000. IF MATERIAL IS APPROVED, THE WASTE MATERIAL SHOWN ON THESE PLANS SHALL BE USED AS NECESSARY TO CONSTRUCT TURNOUTS, DITCH BLOCKS, AND/OR BE PLACED AS EMBANKMENT ALONG THE SHOULDERS IN AREAS AS DIRECTED BY THE COR/AOTR. WASTE MATERIAL NOT USED WITHIN THE PROJECT LIMITS, SHALL BE DISPOSED OF AS PER **FP-03**, SECTION 204.14.

11. THE CONTRACTOR SHALL REMOVE, CLEAN, AND STOCKPILE ALL SALVAGEABLE EXISTING CULVERTS, GUARDRAIL, CATTLE GUARDS, FENCING MATERIALS, ETC, AS CALLED FOR ON THESE PLANS AND/OR SECTIONS 203 AND 607. THE SALVAGEABLE EXISTING CULVERTS SHALL BE STOCKPILE AT CHINLE MAINTENANCE YARD. ANY PIPE MATERIALS DETERMINED TO BE UNUSEABLE BY THE COR/AOTR SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH SECTIONS 107, AND 203. THE SALVAGE WORK SHALL BE INCLUDED IN THE APPROPRIATE UNIT PRICE BID ITEMS FOR SECTIONS 203 AND/OR 607.

12. THE ROADWAY TYPICAL SECTION SHOWN IS THE BASIC TEMPLATE TO WHICH THE PROJECT IS TO BE STAKED AND BUILT. HOWEVER, THERE WILL BE LOCATIONS WHERE, DUE TO EXISTING GROUND CONDITIONS, TURNOUTS, CULVERTS OR OTHER STRUCTURES, ETC., THE SHOWN TYPICAL SLOPES CANNOT BE CONSTRUCTED. IN THIS CASE, THE NRDOT PLANNING & DESIGN BRANCH CHIEF, THROUGH THE COR/AOTR, SHALL BE CONSULTED FOR CHANGES IN THE TYPICAL SECTIONS, DESIGN SLOPES, AND/OR OTHER ADJUSTMENTS BEFORE PROCEEDING WITH THE WORK UNLESS NOTED OTHERWISE ON THE PLANS. THE FINAL CONSTRUCTED ROAD SECTION SHALL BE BASED ON THE GOVERNMENT FURNISHED COMPUTERIZED STAKING REPORT AS ADJUSTED TO FIT FIELD CONDITIONS. THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF CONSTRUCTION, UNLESS OTHERWISE APPROVED. IN NO CASE SHALL THE CUT AND FILL BACK SLOPES BE BUILT STEEPER THAN THE MAXIMUM ALLOWED IN THE ROADWAY TYPICAL SECTION SHOWN.

13. GRADE AND SHAPE THE SHOULDER AND DITCHES (AS DIRECTED BY COR/AOTR) FROM THE SUBGRADE HINGE POINTS TO AND INCLUDING THE EXISTING DITCH LINE AREAS FOR THE CONSTRUCTION OF RIPRAP DITCH LININGS, SLOPE PROTECTION, AND RUNDOWNS. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RIPRAP ITEMS SHOWN IN THE BID SCHEDULE.

14. THERE MAY BE A NUMBER OF ARCHAEOLOGICAL SITE MITIGATIONS THAT ARE NOTED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE NAVAJO NATION DEPARTMENT OF TRANSPORTATION (NNDOT) ROAD CULTURAL RESOURCE MANAGEMENT (RCRM) AS REQUIRED PRIOR TO STARTING CONSTRUCTION ACTIVITIES IN THESE LOCATIONS. SEE THE SPECIAL CONTRACT REQUIREMENT SECTION OF THE CONTRACT FOR ADDITIONAL INFORMATION, AND REQUIREMENTS. THE CONTRACTOR SHALL PLACE TEMPORARY FLEXIBLE SAFETY FENCE AROUND THE ARCHAEOLOGY SITE(S) AS NOTED ON THE PLANS. THE FENCING MATERIAL SHALL BE SQUARE LINK (ORANGE COLOR) PLASTIC TYPE MADE OF HI-DENSITY HDPE, AS PER SECTION 710.11 OF FP-03. TEMPORARY ARCHAEOLOGY FENCING SHALL BE CONSIDERED INCIDENTAL OBLIGATIONS OF THE CONTRACTOR IF A SPECIFIC BID ITEM IS NOT SHOWN IN THE BID SCHEDULE.

15. AT THE COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL INSPECT THE INTERIOR OF ALL NEWLY INSTALLED OR EXTENDED/CLEANED CULVERTS, CATTLEGUARDS, AND/OR OTHER EXISTING DRAINAGE STRUCTURES. THESE STRUCTURES SHALL BE MAINTAINED IN A CLEAN CONDITION, FREE OF SILT AND OTHER DEBRIS UNTIL FINAL ACCEPTANCE OF THE PROJECT. THIS WORK SHALL BE CONSIDERED AN INCIDENTAL OBLIGATIONS OF THE CONTRACTOR UNDER THE APPROPRIATE BID ITEMS, FOR SECTIONS 602, 603, 607, AND 619.

16. ALL QUALITY CONTROL SHALL BE PERFORMED BY NRDOT'S MATERIAL TESTING LAB ASSIGNED TO THIS PROJECT.

UNITED STATES
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BUREAU OF INDIAN AFFAIRS

NAVAJO REGIONAL OFFICE * DIVISION OF TRANSPORTATION

TYPICAL SECTION, ESTI. QUANTITIES ALIGN. TABLE, PROJECT VOLUME

DRAWN BY: B.O.R. DATE: 7/12

DESIGNED BY: DESIGN 2 DATE: 7/12

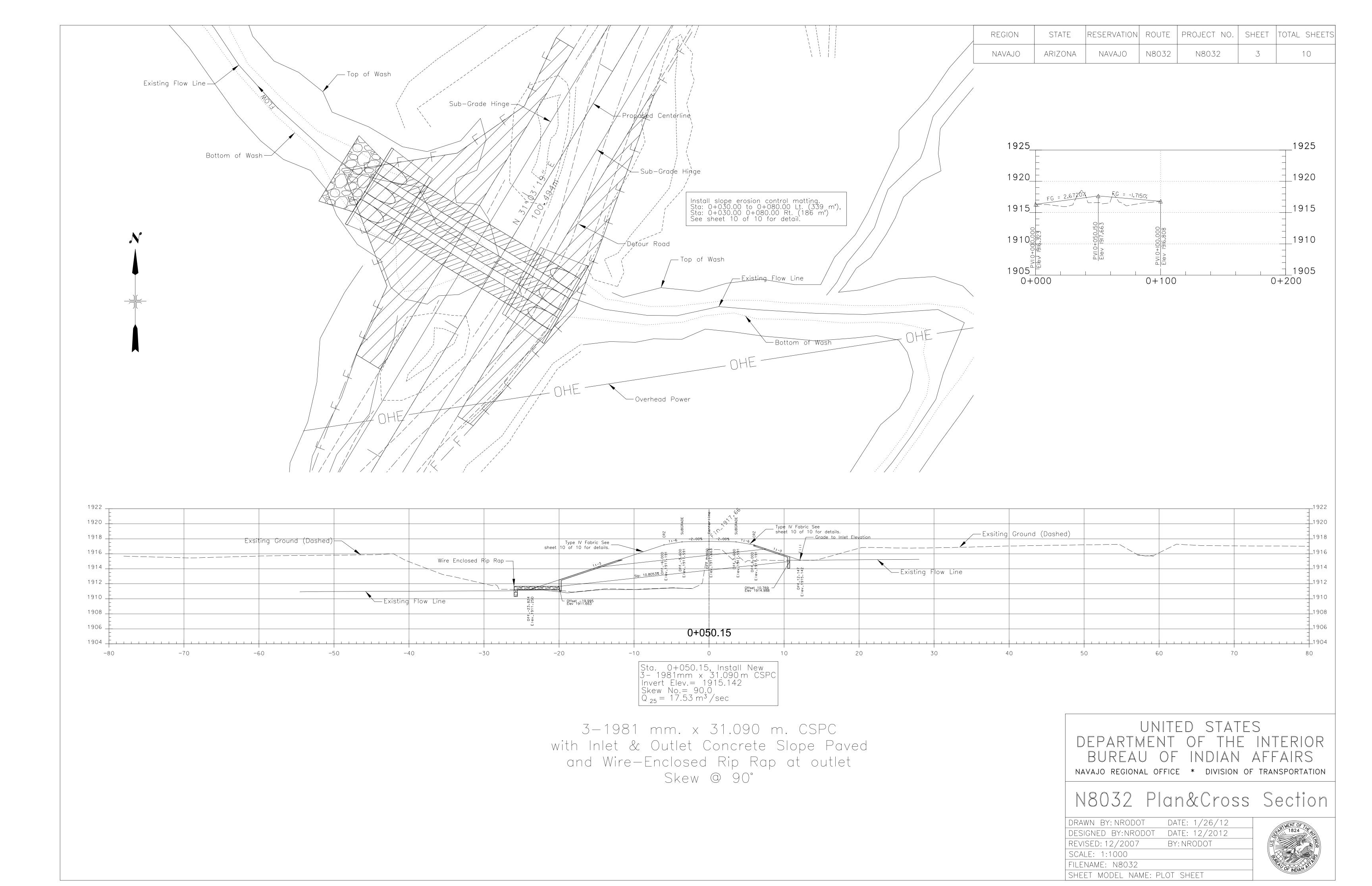
REVISED: 7/12 BY: DESIGN 2

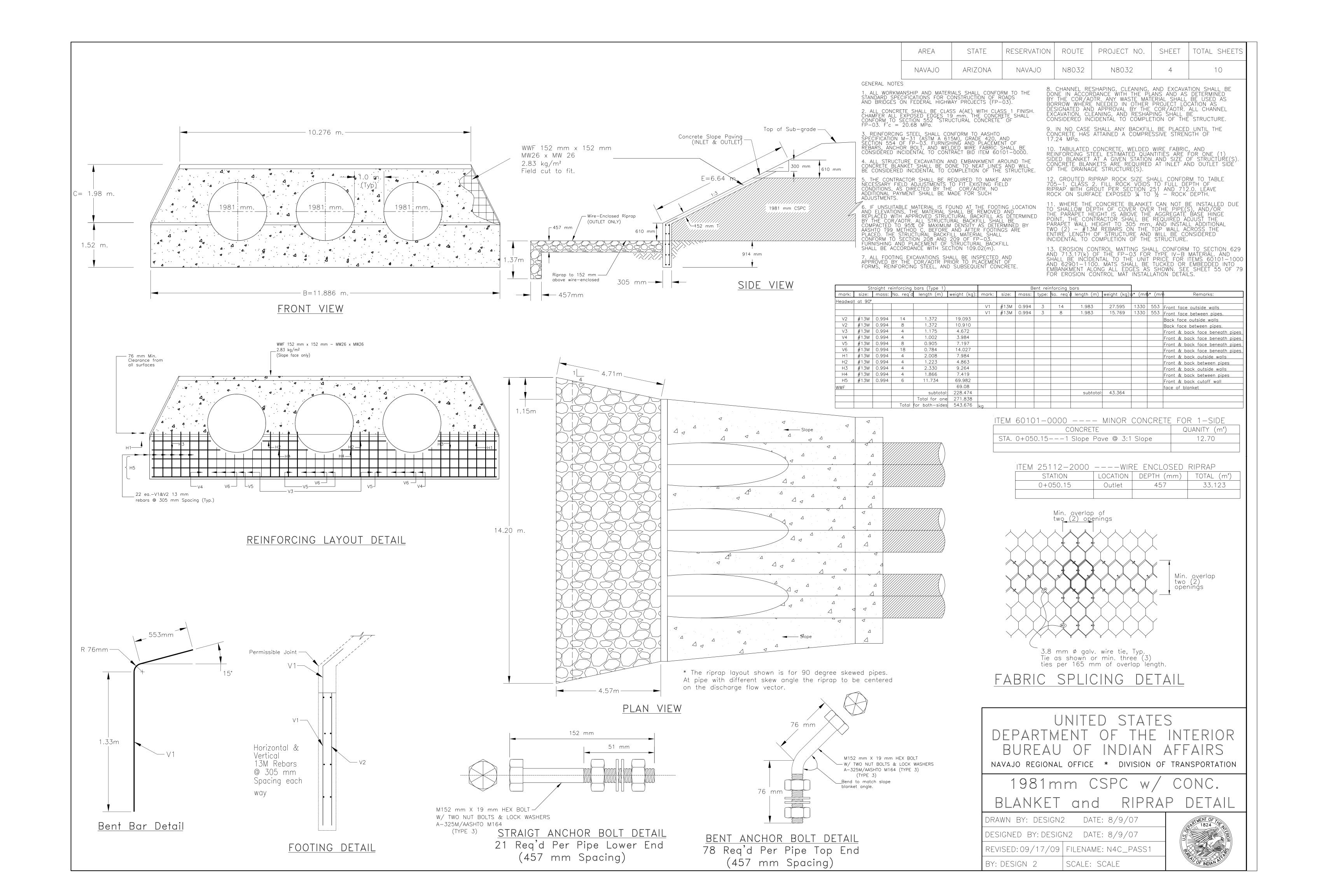
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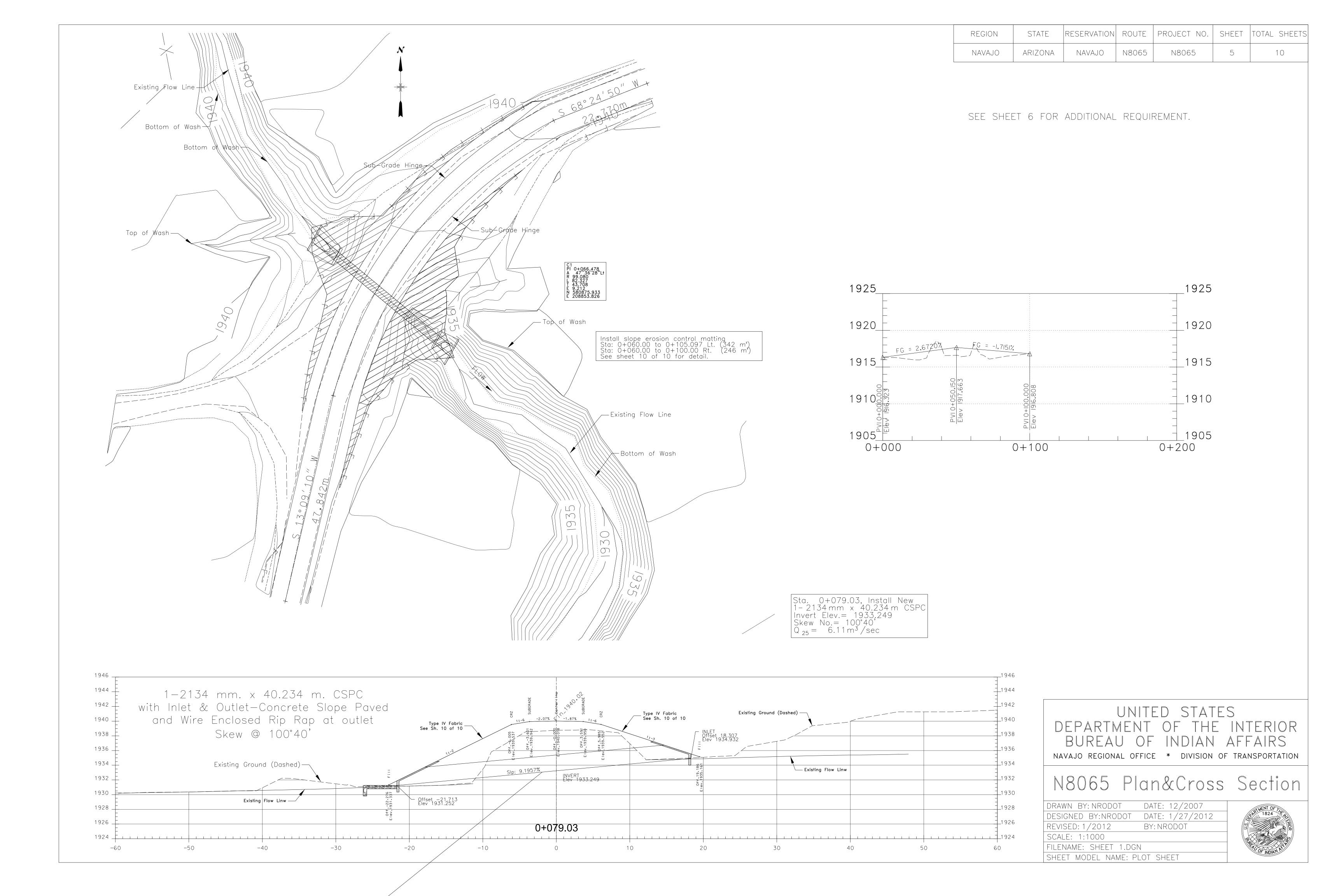
HEET MODEL NAME: PLOT SHEET

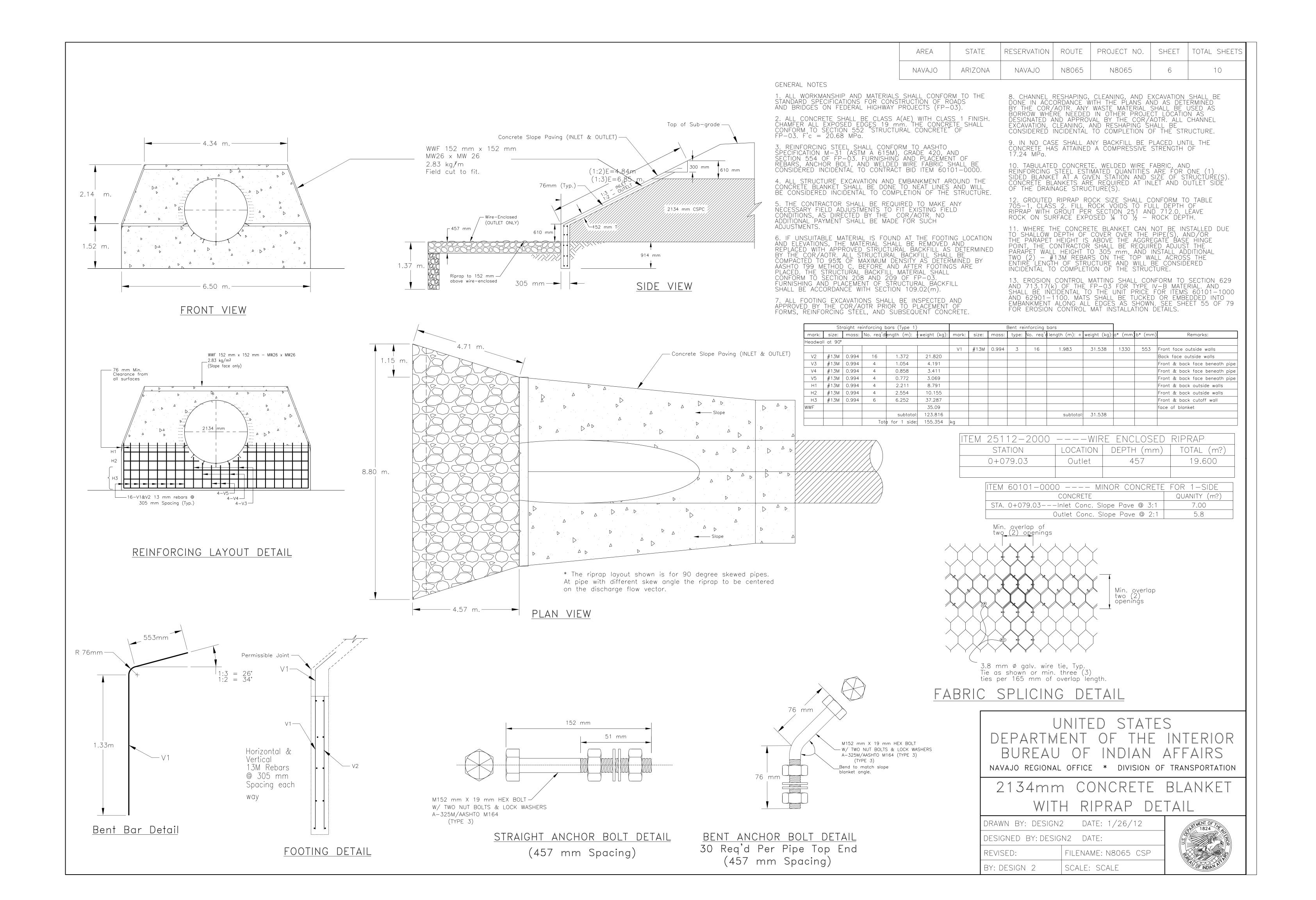
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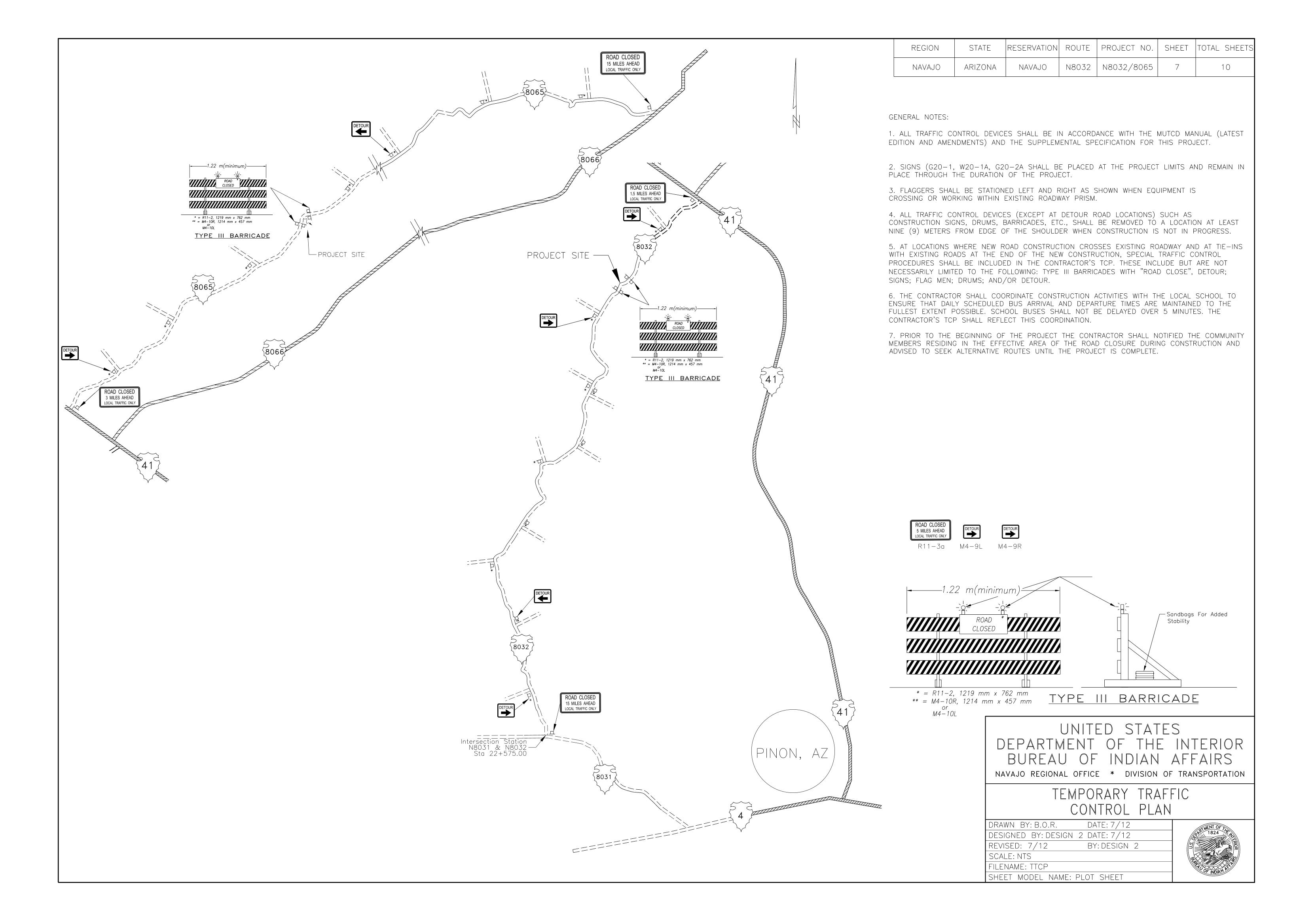


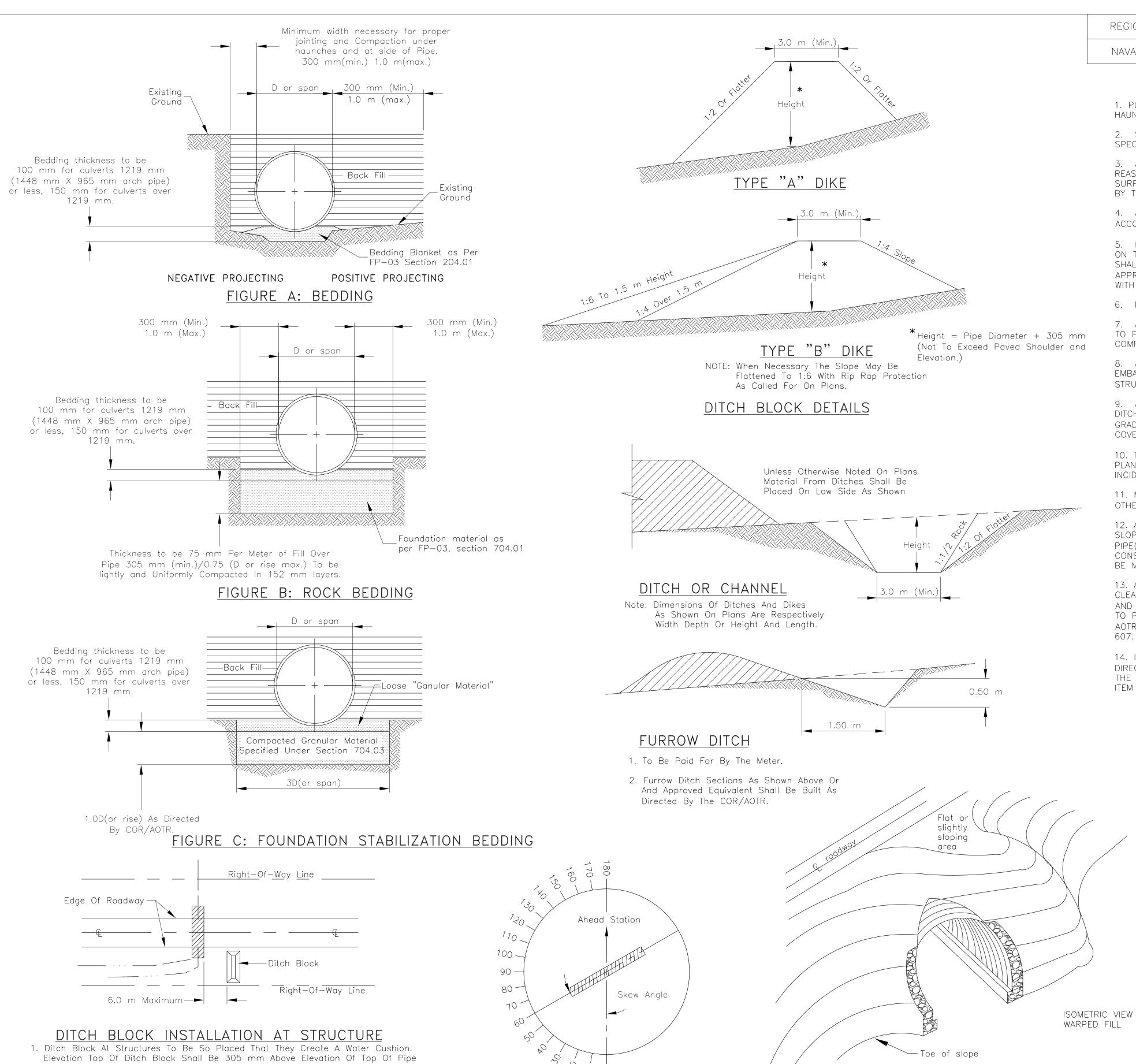












STRUCTURE SKEW DIAGRAM

Unless Otherwise Shown Or Directed by the C.O.R..

The Distance Exceed 6.0 m.

2. Ditch Block Shall Be Located A Distance Equal To The Largest Dimension Of

Box Culvert Or Pipe from the Face of the Drainage Structure. In No Case Shall

REGION	STATE	RESERVATION	ROUTE	PROJECT NO.	SHEET	TOTAL SHEETS
NAVAJO	ARIZONA	NAVAJO	N8032	N8032/8065	8	10

GENERAL NOTES

1. PLACE LOOSE BEDDING ROUGHLY SHAPED TO BOTTOM OF PIPE, THEN COMPACTED UNDER HAUNCHES AFTER PIPE PLACEMENT.

2. SEE SECTIONS 204, 209, 602, AND 704 OF FP-03, INCLUDING THE SUPPLEMENTAL SPECIFICATION FOR ADDITIONAL NOTES.

3. ALL DRAINAGE STRUCTURE MATERIAL SHALL BE UNLOADED AND HANDLED WITH REASONABLE CARE. NO STRUCTURE SHALL BE DRAGGED OR ALLOWED TO STRIKE ANY HARD SURFACE DURING PLACEMENT. ANY DAMAGED STRUCTURE SHALL BE REPAIRED OR REPLACED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE GOVERNMENT.

4. ALL STRUCTURAL PLATE PIPE STRUCTURES SHALL BE ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE FABRICATOR'S RECOMMENDATION.

5. BACKFILL MATERIAL SHALL BE PLACED 300 mm(min.) 1.0 m(max) PIPE DIAMETER WIDTH ON THE SIDES AND 305 mm OVER THE PIPE. BACKFILL MATERIAL BEYOND THESE LIMITS SHALL BE REGULAR EARTHWORK EMBANKMENT MATERIAL. THE BACKFILL MATERIAL SHALL BE APPROVED BY THE COR/AOTR PRIOR TO IT'S USE AND SHALL BE PLACED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

6. PONDING OR JETTING PIPE BACKFILL SHALL NOT BE PERMITTED.

7. ALL PIPE EXCAVATION, BACKFILLING, DE-WATERING, PUMPING OR COFFERDAMS REQUIRED TO PROPERLY INSTALL THE DRAINAGE PIPE SHALL BE CONSIDERED INCIDENTAL TO COMPLETION OF THE PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE.

8. ALL PIPES SHALL BE PROTECTED BY A COVER OF NOT LESS THAN 0.91 m OF EMBANKMENT ABOVE PIPE BEFORE ANY HEAVY EQUIPMENT IS ALLOWED TO PASS OVER THE STRUCTURE(S) DURING CONSTRUCTION.

9. ALL CULVERTS UNDER TURNOUT AND DRIVEWAYS SHALL BE PLACED AT THE PROPOSED DITCH FLOWLINE. THE CONTRACTOR SHALL BE REQUIRED TO FIELD ADJUST THE PROFILE GRADES OVER THE PIPE AS DIRECTED BY THE COR/AOTR TO PROVIDE FOR THE MINIMUM

10. TYPE "B" DIKE SHALL BE USED ON THIS PROJECT UNLESS OTHERWISE NOTED ON THE PLANS. EMBANKMENT MATERIAL NEEDED TO BUILD EARTHEN DIKES SHALL BE CONSIDERED INCIDENTAL TO ITEM 20443-2000.

11. MULTIPLE PIPE INSTALLATION BE PLACED 610 mm BETWEEN END SECTIONS UNLESS OTHERISE DIRECTED BY THE AOTR/COR OR AS SHOWN ON THE PLANS.

12. ALL DRAINAGE STRUCTURES SHALL BE INSTALLED AT THE ORIGINAL GROUND LINE AND SLOPE TO ASSURE POSITIVE DRAINAGE UP TO THE R.O.W. LIMITS. IN NO CASE SHALL THE PIPE(S) BE PLACED BELOW THE ORIGINAL GROUND ELEVATIONS. THIS WORK SHALL BE CONSIDERED INCIDIDENTAL TO COMPLETION OF PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE.

13. AT DRAINAGE PIPE REPLACEMENTS, INSTALLIONS, EXTENSIONS, AND IN-PLACE PIPE CLEANING LOCATIONS, THE CONTRACTOR SHALL RESHAPE, REGRADE AND CLEAN THE INLET AND OUTLET CHANNELS TO THE RIGHT-OF-WAY LINE AND/OR EXISTING DRAINAGE CHANNEL, TO PRODUCE SMOOTH FLOWS AT CULVERT INTAKES AND DISCHARGES AS DIRECTED BY THE AOTR/COR. THIS WORK SHALL BE INCIDENTAL TO BID ITEMS UNDER SECTION 602, 603, AND

14. IF DIRECTED BY THE AOTR/COR TO BETTER FIT FIELD CONDITIONS, TO MORE SMOOTHLY DIRECT THE FLOW INTO THE PIPE AND/OR LESSEN THE WATER'S IMPACT ON THE FACE OF THE DITCH BLOCKS, THE DITCH BLOCK TO BE CURVED. THIS WORK TO BE INCIDENTAL TO BID ITEM 20443-2000.

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

STANDARD PIPE INSTALLATION AND DITCH DETAILS

Toe of slope	DRAWN BY: B.O.R.	DATE: 7/12	
	DESIGNED BY: B.O.R.	DATE: 7/12	
PIPE SKEWS TO THE EMBANKMENT (TYP.)	REVISED: 7/12	BY: Design 2	
1. The Contractor shall be required to built the warped embankment around the skewed	SCALE: NTS		
drainage pipe(s). This work shall be incidental to the earthwork and installation of drainage pipe items shown.	FILENAME: Standard Pipe Detail		
aramage pipe items snown.	SHEET MODEL NAME: PLOT SHEET		



