

Jordan Cove Natural Gas Liquefaction and  
Pacific Connector Gas Pipeline Project

Draft EIS

**Attachment 1 to Appendix F9**

**Blue Ridge Variation**

**Pacific Connector Gas Pipeline**

**Coos Bay District – Bureau of Land Management**

Prepared for:

**USDA Forest Service**

Prepared by:

**Stantec**

**March 2019**

Jordan Cove Natural Gas Liquefaction and  
Pacific Connector Gas Pipeline Project  
Draft EIS

**Attachment 1a to Appendix F9**

**Alignment Sheets for the Proposed Route**

**Pacific Connector Gas Pipeline**

**Coos Bay District – Bureau of Land Management**

Prepared for:

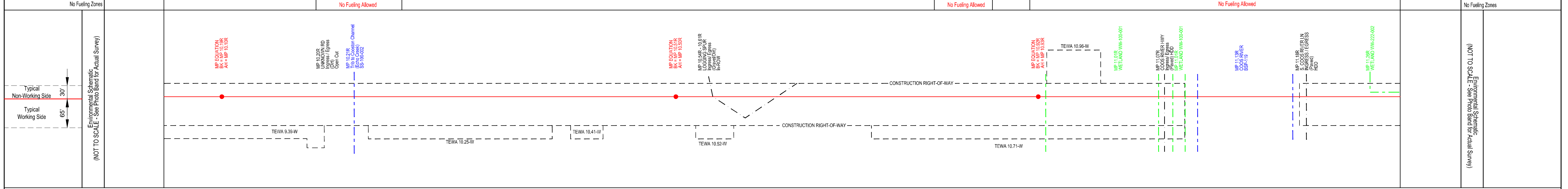
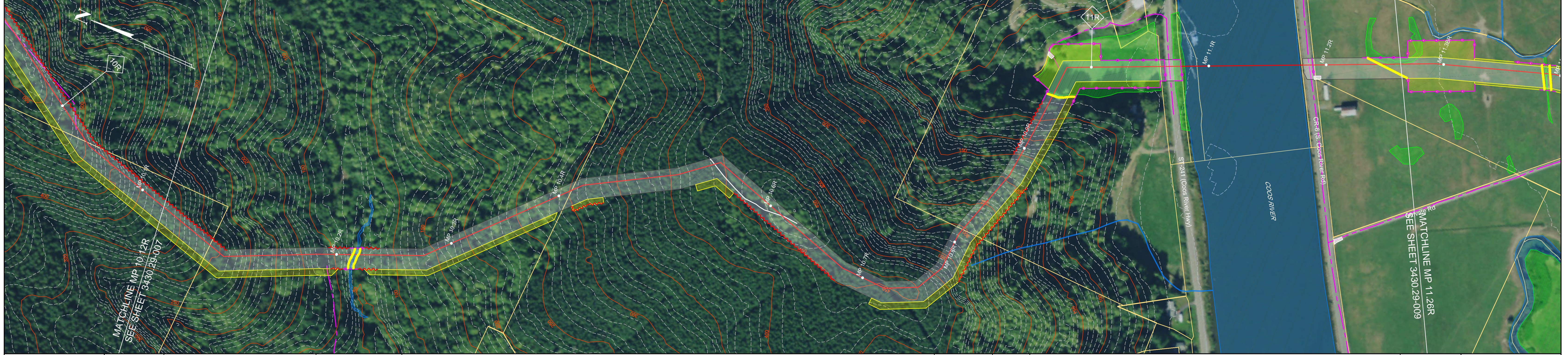
**USDA Forest Service**

Prepared by:

**Stantec**

**March 2019**

Legal Location	SEC 20, T23S, R12W				SEC 29, T23S, R12W				SEC 28, T23S, R12W				Legal Location
Ownership / Management	CO-045.000	CO-045.050	CO-045.051	CO-054.052	CR 45	CO-054.054	CO-045.055					Ownership / Management	
Jurisdiction	COOS COUNTY												Jurisdiction
Federal Landuse Allocation													Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)													Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody	Trib. to Cooson Channel												Wetland / Waterbody
Crossing Method / Instream Construction Window	Dry Open Cut / Jul. 1 - Sep. 15												Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)													Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk													Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test Water Release / Aboveground Facilities / Residential													Hydrostatic Test Water Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)	ACCESS DENIED (WETLAND / CULTURAL)												Survey Status (wetlands as of July 2017)



**NOTES:**

- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
- In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
- In wetlands segregate the top one foot of topsoil from the trench line, except in areas where standing water or saturated soils are present.
- Topsoil will be stripped from the trench line and spoil storage area only in croplands, hayfields, pastures and residential areas. Topsoil may be imported in residential areas as necessary to assure adequate reclamation.
- If streams proposed to be open cut are flowing at the time of construction, they will be crossed using a dry open cut method (i.e., flume, dam & pump, etc.). If streams proposed to be dry open cut are not flowing at the time of construction, they will be open cut.
- Right-of-way grading or vegetation clearing will occur as necessary.
- Seed mixes in the ECRP or according to landowner agreements or as directed by E.I.
- Pacific Connector understands that fisheries' construction windows only apply to those waterbodies flowing at the time of construction and that the windows do not apply to HDD crossings.

**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)
- Wetland
- Stream
- Tax Parcel Boundaries

Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.

- Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
- Silt Fence (SF)
- Safety Fence (SAF)
- Slash Filter Windrow (SFH)
- Construction Entrance Pad (CE)

**BLM LANDUSE - 2016 RMP**

- 2a - District Designated Reserve (No Harvest)
- 2c - District Designated Reserve (No-Forest)
- 3a - Late-Successional Reserve (Dry Forest)
- 3b - Late-Successional Reserve (Moist Forest)
- 4a - Riparian Reserve (Dry Forest)
- 4b - Riparian Reserve (Moist Forest)
- 5 - Estabate Management Area
- 6 - Harvest Land Base (Unmanned Timber Area)
- 7 - Harvest Land Base (Low Intensity Timber Area)
- 8 - Harvest Land Base (Moderate Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

- 1-Very Low
- 2-Low
- 3-Moderate
- 4-High
- 5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

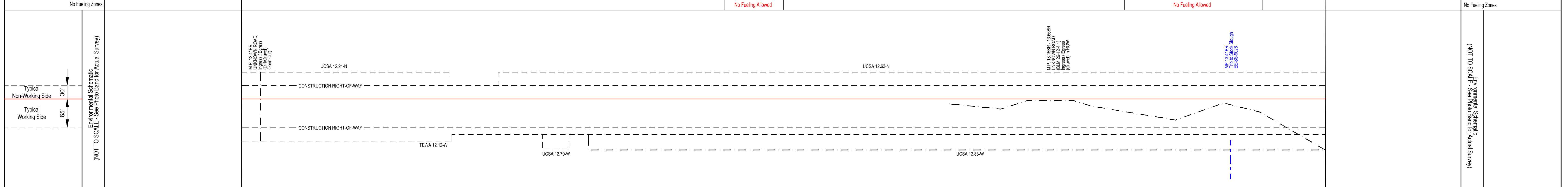
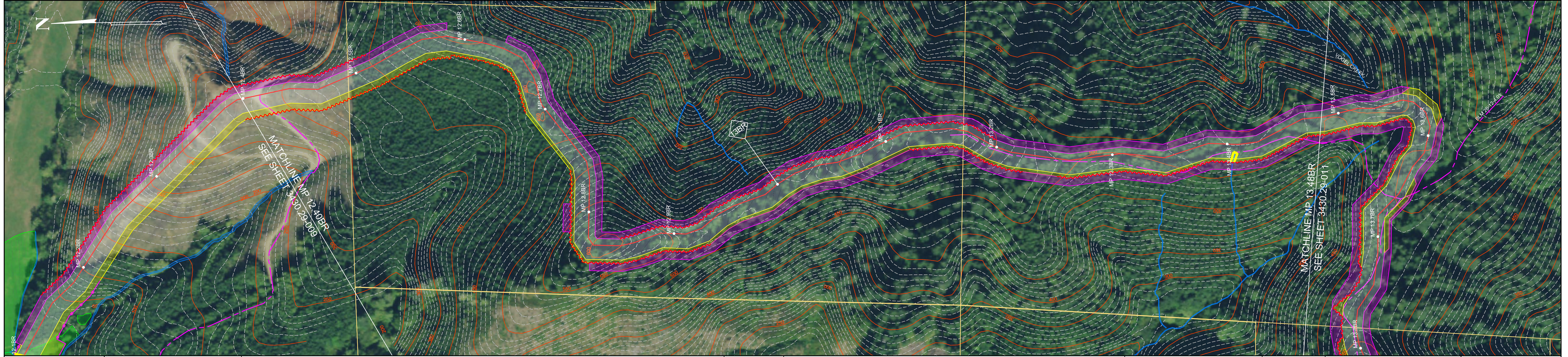
**SPREAD #1**  
**MP 10.12R TO 11.26R**  
**COOS COUNTY, OREGON**

DRAWN BY: EE DATE: SEPT-2017 ISSUED FOR BID: 24x36 SCALE: 1 Inch = 200 Feet  
 CHECKED BY: EE DATE: SEPT-2017 ISSUED FOR CONSTRUCTION: 11x17 SCALE: 1 Inch = 450 Feet  
 APPROVED BY: EE DATE: SEPT-2017 DRAWING NUMBER: 3430.29-008 SHEET 8 OF 226

Pacific Connector GAS PIPELINE



Legal Location	T26S, R12W, Section 33										T26S, R12W, Section 4										Legal Location				
Ownership / Management	CO-045.101					CO-045.102					CO-045.103					Ownership / Management									
Jurisdiction	BLM - COOS BAY DISTRICT																				Jurisdiction				
Federal Landuse Allocation	8		4b		8		2b		4b		2b		8		2b		3b		4b		8		3b		Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)																					Areas of High Groundwater (Potential Trench Dewatering)				
Wetland / Waterbody																					Wetland / Waterbody				
Crossing Method / Instream Construction Window																					Crossing Method / Instream Construction Window				
Biological Seasonal Construction Window (as of September 2017)																					Biological Seasonal Construction Window (as of September 2017)				
Topsoil Salvage / Federal Lands Soil Risk																					Topsoil Salvage / Federal Lands Soil Risk				
Hydrostatic Test Water Release / Aboveground Facilities / Residential																					Hydrostatic Test Water Release / Aboveground Facilities / Residential				
Survey Status (wetlands as of July 2017)																					Survey Status (wetlands as of July 2017)				



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  - In wetlands segregate the top one foot of topsoil from the trench line, except in areas where standing water or saturated soils are present.
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  - Right-of-way grading or vegetation clearing will occur as necessary.
  - Seed mixes in the ECRP or according to landowner agreements or as directed by E.I.
  - Pacific Connector understands that fisheries' construction windows only apply to those waterbodies flowing at the time of construction and that the windows do not apply to HDD crossings.

**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way (Shown white on photography)
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Tax Parcel Boundaries
- Wetland
- Stream
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)

Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.

- Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
- Silt Fence (SF)
- Safety Fence (SAF)
- Slash Filter Windrow (SFH)
- Construction Entrance Pad (CE)

**BLM LANDUSE - 2016 RMP**

2a - District Designated Reserve (No Harvest)
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3a - Late-Successional Reserve (Dry Forest)
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4b - Riparian Reserve (Moist Forest)
5 - Estate Management Area
6 - Harvest Land Base (Uneven-Aged Timber Area)
7 - Harvest Land Base (Low Intensity Timber Area)
8 - Harvest Land Base (Moderate Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

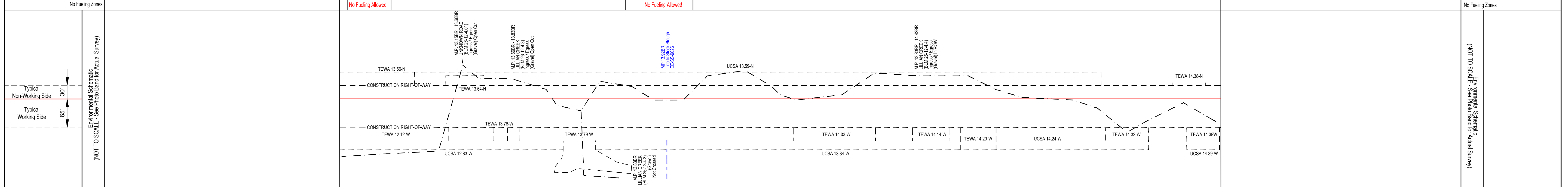
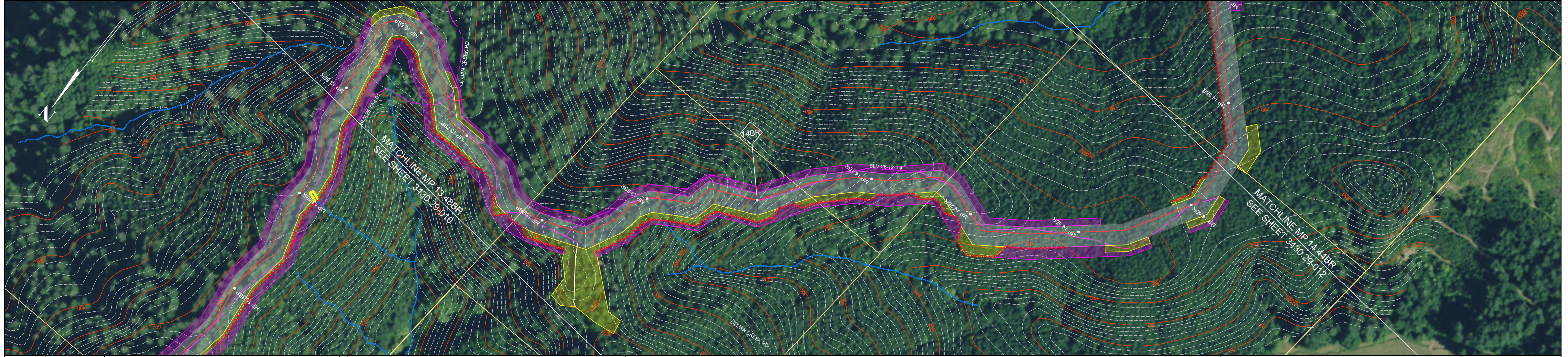
**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

**SPREAD #1**  
**MP 12.40BR TO 13.48BR**  
**COOS COUNTY, OREGON**

DRAWN BY: EE DATE: SEPT-2017 ISSUED FOR BID: 24x36 SCALE: 1 Inch = 200 Feet  
 CHECKED BY: EE DATE: SEPT-2017 ISSUED FOR CONSTRUCTION: 11x17 SCALE: 1 Inch = 450 Feet  
 APPROVED BY: EE DATE: SEPT-2017 DRAWING NUMBER: 3430.29-010 SHEET 10 OF 226

Legal Location	SEC 3, T26S, R13W				Legal Location
Ownership / Management	CO-045.103	CO-045.104	CO-045.105	CO-045.106	Ownership / Management
Jurisdiction	BLM - COOS BAY DISTRICT				Jurisdiction
Federal Landuse Allocation	COOS COUNTY				Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)					Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody	Trib to Stock Slough				Wetland / Waterbody
Crossing Method / Instream Construction Window					Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)	MARBLED MURRELET (APRIL 1 - AUGUST 5 (DTRs))				Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk					Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test Vessel Release / Aboveground Facilities / Residential					Hydrostatic Test Vessel Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)					Survey Status (wetlands as of July 2017)



**NOTES:**

- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
- In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
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**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Tax Parcel Boundaries
- Wetland
- Stream
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)

Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.

- Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB) (SB) (PB) (WC)
- Silt Fence (SF)
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**BLM LANDUSE - 2016 RMP**

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**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

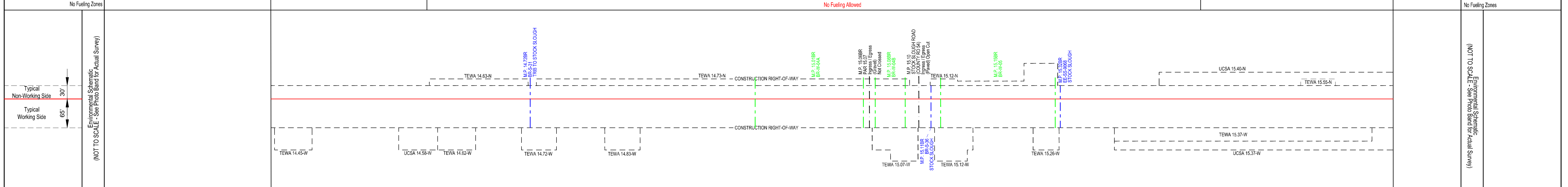
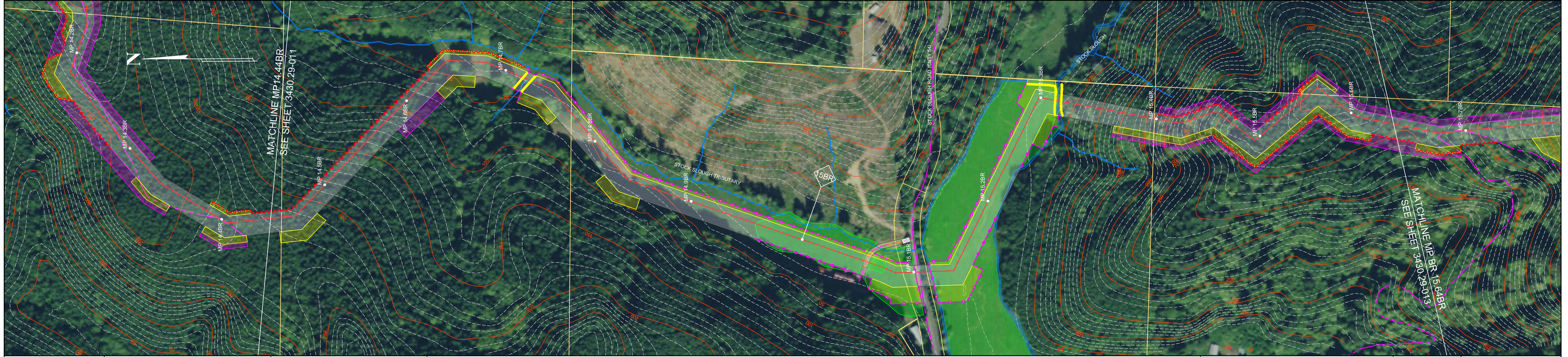
**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT  
PACIFIC CONNECTOR GAS PIPELINE, LP  
ENVIRONMENTAL ALIGNMENT**

**SPREAD #1  
MP 13.48BR TO 14.44BR  
COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 Inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 Inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-011	SHEET 11 OF 226

Legal Location	T26S, R12W, Section 4		T26S, R12W, Section 9		Legal Location		
Ownership / Management	CO-045.106	CO-045.107	CO-045.108	CO-045.110	CO-045.112	CO-045.113	Ownership / Management
Jurisdiction	COOS COUNTY						Jurisdiction
Federal Landuse Allocation							Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)							Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody	Trib to Stock Slough						Wetland / Waterbody
Crossing Method / Instream Construction Window	DRY OPEN CUT / JULY 1 - SEPT 15		DRY OPEN CUT / JULY 1 - SEPT 15		DRY OPEN CUT / JULY 1 - SEPT 15		Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)	MARBLE MURRELET (APRIL 1 - AUGUST 5 (DTRs))						Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk							Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test / Water Release / Aboveground Facilities / Residential							Hydrostatic Test / Water Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)							Survey Status (wetlands as of July 2017)



- NOTES:**
- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
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**LEGEND**

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  - Rock Source/Disposal
- Tax Parcel Boundaries
- Wetland
- Stream
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)
- Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.
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7 - Harvest Land Base (Moderate Intensity Timber Area)
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**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
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5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 1 inch = 200 feet

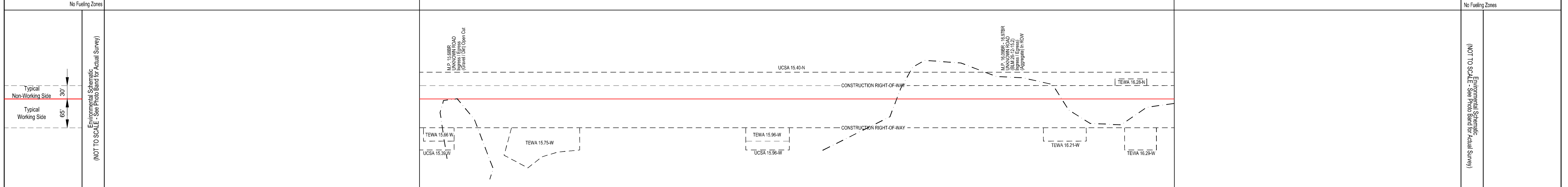
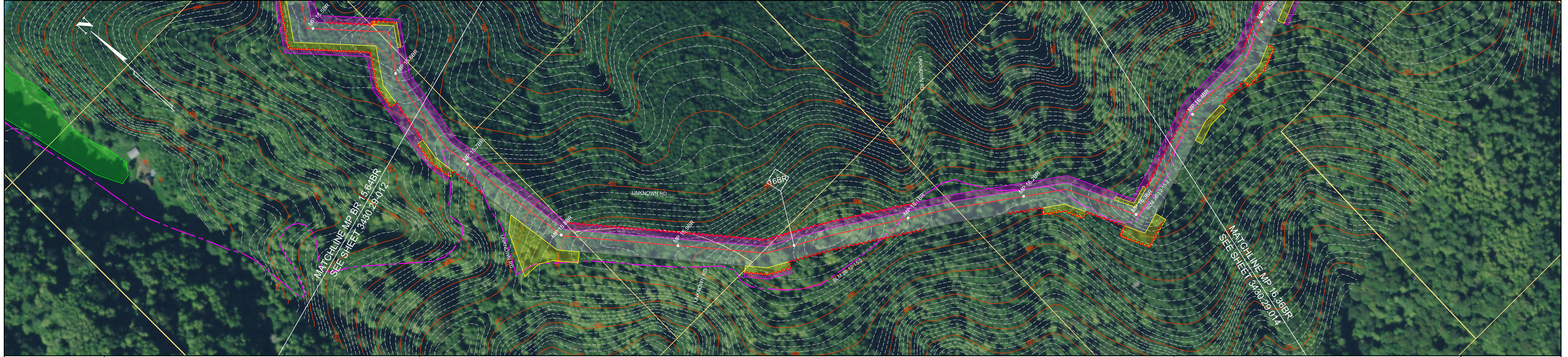
**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

**SPREAD #1**  
**MP 14.44BR TO 15.64BR**  
**COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-012	SHEET 12 OF 226

Legal Location	T26S, R12W, Section 9				T26S, R12W, Section 16				Legal Location
Ownership / Management	CO-045.110		CO-045.115		CO-045.114		CO-045.116		Ownership / Management
Jurisdiction	COOS COUNTY				COOS COUNTY				Jurisdiction
Federal Landuse Allocation	2a		2b		2a				Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)									Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody									Wetland / Waterbody
Crossing Method / Instream Construction Window									Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)					MARBLE MURRELET (APRIL 1 - AUGUST 5 (DTRs))				Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk									Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test Water Release / Aboveground Facilities / Residential									Hydrostatic Test Water Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)									Survey Status (wetlands as of July 2017)



No Fueling Zones	Environmental Schematic (NOT TO SCALE - See Photo Band for Actual Survey)	Environmental Schematic (NOT TO SCALE - See Photo Band for Actual Survey)	No Fueling Zones
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- NOTES:**
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**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

- 1-Very Low
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**REVISIONS**

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Scale: 200 0 200 400 FEET

**PUBLIC**

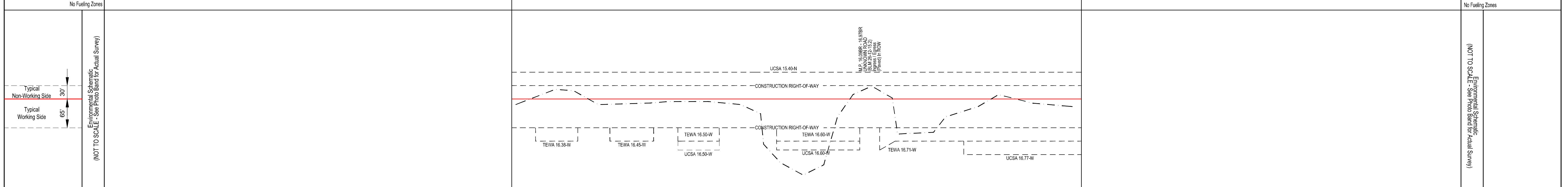
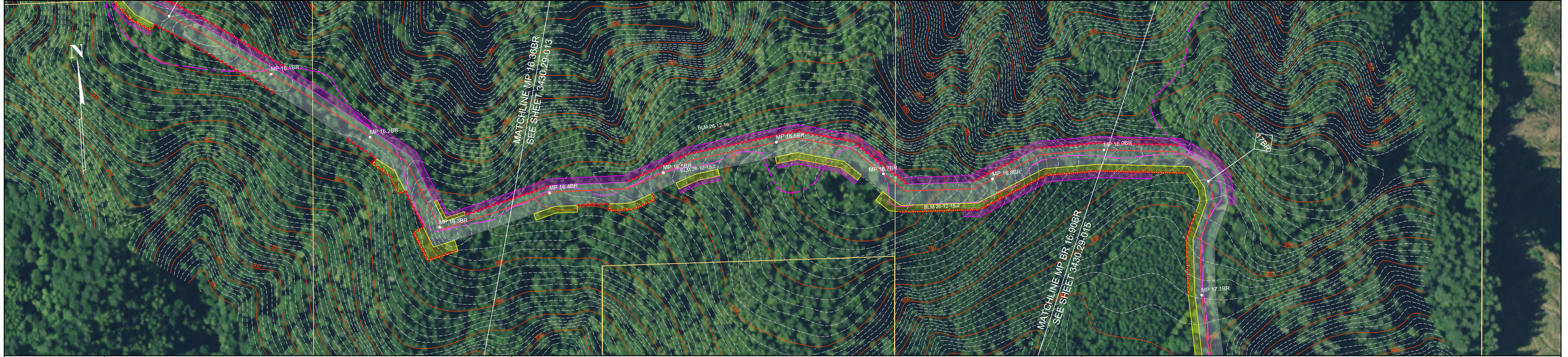
**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

**SPREAD #1**  
**MP 15.64BR TO 16.36BR**  
**COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 Inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 Inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-013	SHEET 13 OF 226



Legal Location	T26S, R12W, Section 16	T26S, R12W, Section 15	Legal Location
Ownership / Management	CO-045.117	CO-045.118	Ownership / Management
Jurisdiction	COOS COUNTY	BLM - COOS BAY DISTRICT	Jurisdiction
Federal Landuse Allocation		3b	Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)			Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody			Wetland / Waterbody
Crossing Method / Instream Construction Window	MARBLE MURRELET (APRIL 1 - AUGUST 5 (DTRs))		Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)			Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk			Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test / Water Release / Aboveground Facilities / Residential			Hydrostatic Test / Water Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)			Survey Status (wetlands as of July 2017)



**NOTES:**

- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
- In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
- In wetlands segregate the top one foot of topsoil from the trench line, except in areas where standing water or saturated soils are present.
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- Right-of-way grading or vegetation clearing will occur as necessary.
- Seed mixes in the ECRP or according to landowner agreements or as directed by E.I.
- Pacific Connector understands that fisheries' construction windows only apply to those waterbodies flowing at the time of construction and that the windows do not apply to HDD crossings.

**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way (Shown white on photography)
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)
- Tax Parcel Boundaries
- Wetland
- Stream
- Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.
  - Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
  - Silt Fence (SF)
  - Safety Fence (SAF)
  - Slash Filter Windrow (SFH)
  - Construction Entrance Pad (CE)

**BLM LANDUSE - 2016 RMP**

2a - District Designated Reserve (No Harvest)
2b - District Designated Reserve (Non-Forest)
3a - Late-Successional Reserve (Dry Forest)
3b - Late-Successional Reserve (Moist Forest)
4a - Riparian Reserve (Dry Forest)
4b - Riparian Reserve (Moist Forest)
5 - Estate Management Area
6 - Harvest Land Base (Low-Intensity Timber Area)
7 - Harvest Land Base (Moderate Intensity Timber Area)
8 - Harvest Land Base (High Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

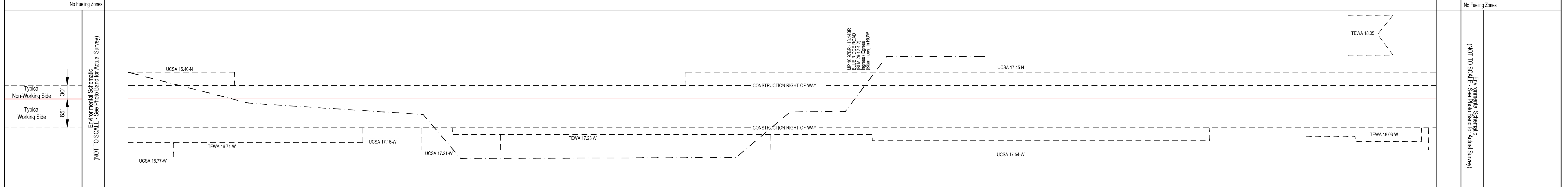
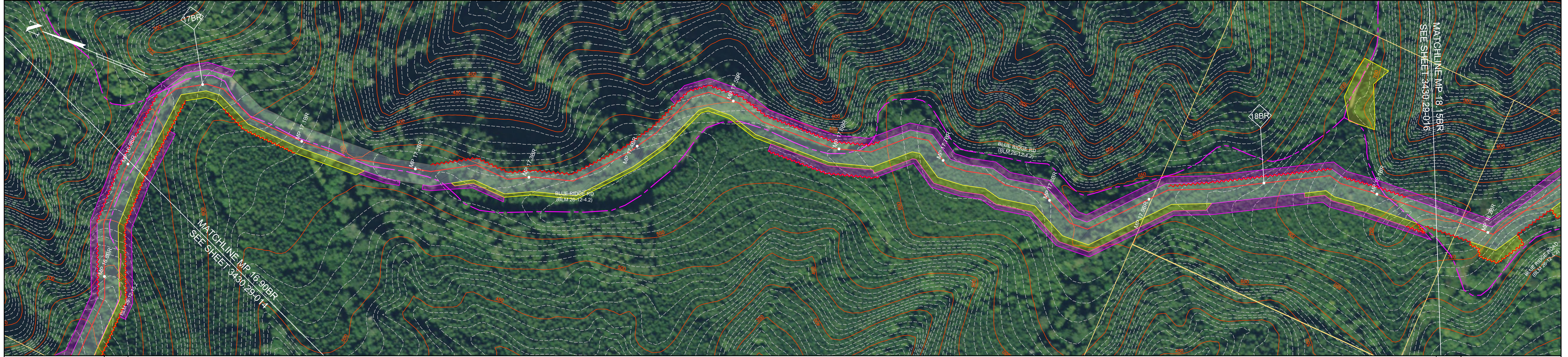
**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

**SPREAD #1**  
**MP 16.36BR TO 16.90BR**  
**COOS COUNTY, OREGON**

DRAWN BY: EE DATE: SEPT-2017 ISSUED FOR BID: 24x36 SCALE: 1 Inch = 200 Feet  
CHECKED BY: EE DATE: SEPT-2017 ISSUED FOR CONSTRUCTION: 11x17 SCALE: 1 Inch = 450 Feet  
APPROVED BY: EE DATE: SEPT-2017 DRAWING NUMBER: 3430.29-014 SHEET 14 OF 226

Legal Location	T26S, R12W, Section 15		T26S, R12W, Section 22		Legal Location
Ownership / Management	CO-045.118		CO-045.119		Ownership / Management
Jurisdiction	BLM - COOS BAY DISTRICT		COOS COUNTY		Jurisdiction
Federal Landuse Allocation	3b	4b	3b		Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)					Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody					Wetland / Waterbody
Crossing Method / Instream Construction Window					Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)			-MARBLE MURRELET (APRIL 1 - AUGUST 5 (OTRs))-		Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk					Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test Water Release / Aboveground Facilities / Residential					Hydrostatic Test Water Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)					Survey Status (wetlands as of July 2017)



- NOTES:**
- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
  - In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
  - In wetlands segregate the top one foot of topsoil from the trench line, except in areas where standing water or saturated soils are present.
  - Topsoil will be stripped from the trench line and spoil storage area only in croplands, hayfields, pastures and residential areas. Topsoil may be imported in residential areas as necessary to assure adequate reclamation.
  - If streams proposed to be open cut are flowing at the time of construction, they will be crossed using a dry open cut method (i.e., flume, dam & pump, etc.). If streams proposed to be dry open cut are not flowing at the time of construction, they will be open cut.
  - Right-of-way grading or vegetation clearing will occur as necessary.
  - Seed mixes in the ECRP or according to landowner agreements or as directed by E.I.
  - Pacific Connector understands that fisheries' construction windows only apply to those waterbodies flowing at the time of construction and that the windows do not apply to HDD crossings.

**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Tax Parcel Boundaries
- Wetland
- Stream
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)
- Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.
  - Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
  - Silt Fence (SF)
  - Safety Fence (SAF)
  - Slash Filter Windrow (SFH)
  - Construction Entrance Pad (CE)

**BLM LANDUSE - 2016 RMP**

2a - District Designated Reserve (No Harvest)
2b - District Designated Reserve (No-Harvest)
3a - Late-Successional Reserve (Dry Forest)
3b - Late-Successional Reserve (Moist Forest)
4a - Riparian Reserve (Dry Forest)
4b - Riparian Reserve (Moist Forest)
5 - Estate Management Area
6 - Harvest Land Base (Uneven-Aged Timber Area)
7 - Harvest Land Base (Low Intensity Timber Area)
8 - Harvest Land Base (Moderate Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

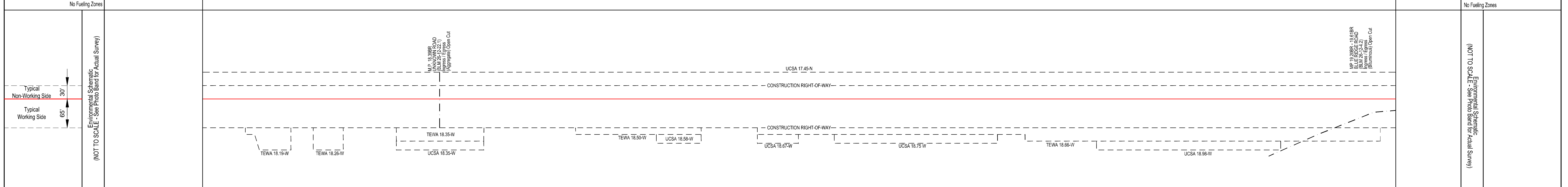
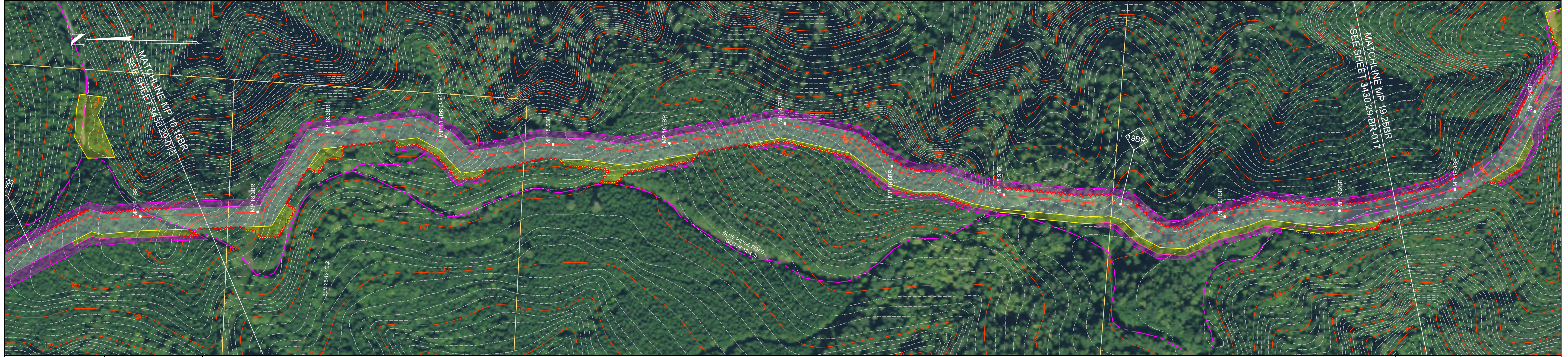
**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

**SPREAD #1**  
**MP 16.90BR TO 18.15BR**  
**COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 Inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 Inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-015	SHEET 15 OF 226

Legal Location	T26S, R12W, Section 22			T26S, R12W, Section 27		Legal Location
Ownership / Management	CO-045.119	CO-045.121	CO-045.122	CO-045.123		Ownership / Management
Jurisdiction	COOS COUNTY			BLM - COOS BAY DISTRICT		Jurisdiction
Federal Landuse Allocation				3b		Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)						Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody						Wetland / Waterbody
Crossing Method / Instream Construction Window						Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)				-MARBLED MURRELET (APRIL 1 - AUGUST 5) (DTRs)-		Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk						Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test / Water Release / Aboveground Facilities / Residential						Hydrostatic Test / Water Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)						Survey Status (wetlands as of July 2017)



**NOTES:**

- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
- In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
- In wetlands segregate the top one foot of topsoil from the trench line, except in areas where standing water or saturated soils are present.
- Topsoil will be stripped from the trench line and spoil storage area only in croplands, hayfields, pastures and residential areas. Topsoil may be imported in residential areas as necessary to assure adequate reclamation.
- If streams proposed to be open cut are flowing at the time of construction, they will be crossed using a dry open cut method (i.e., flume, dam & pump, etc.). If streams proposed to be dry open cut are not flowing at the time of construction, they will be open cut.
- Right-of-way grading or vegetation clearing will occur as necessary.
- Seed mixes in the ECRP or according to landowner agreements or as directed by E.I.
- Pacific Connector understands that fisheries' construction windows only apply to those waterbodies flowing at the time of construction and that the windows do not apply to HDD crossings.

**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way (Shown white on photography)
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Tax Parcel Boundaries
- Wetland
- Stream
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)

Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.

- Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
- Silt Fence (SF)
- Safety Fence (SAF)
- Slash Filter Windrow (SFH)
- Construction Entrance Pad (CE)

**BLM LANDUSE - 2016 RMP**

2a - District Designated Reserve (No Harvest)
2c - District Designated Reserve (No-Forrest)
3a - Late-Successional Reserve (Dry Forest)
3b - Late-Successional Reserve (Moist Forest)
4a - Riparian Reserve (Dry Forest)
4b - Riparian Reserve (Moist Forest)
5 - Estate Management Area
6 - Harvest Land Base (Uneven-Aged Timber Area)
7 - Harvest Land Base (Low Intensity Timber Area)
8 - Harvest Land Base (Moderate Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

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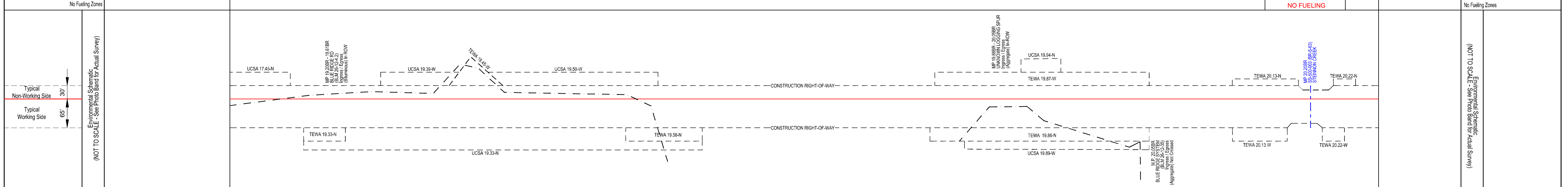
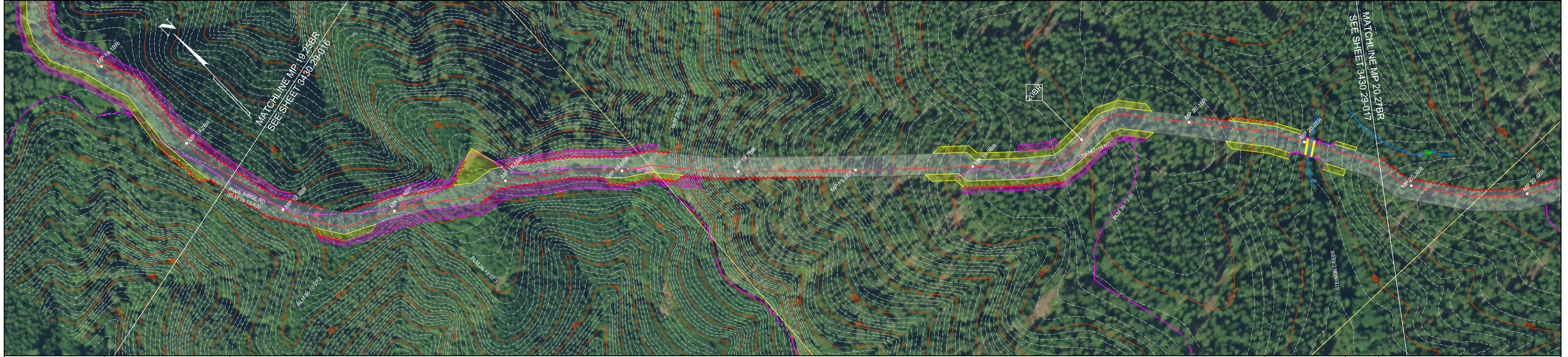
**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT  
PACIFIC CONNECTOR GAS PIPELINE, LP  
ENVIRONMENTAL ALIGNMENT**

**SPREAD #1  
MP 18.15BR - 19.25BR  
COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 Inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 Inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-016	SHEET 16 OF 226

Legal Location	T26S, R12W, Section 27				T26S, R12W, Section 28				Legal Location
Ownership / Management	CO-045.123				CO-045.124				Ownership / Management
Jurisdiction	BLM - COOS BAY DISTRICT								Jurisdiction
Federal Landuse Allocation	3b	4b	3b	4b	3b	4b	3b	4b	Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)									Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody	Trib to Steinnon Creek								Wetland / Waterbody
Crossing Method / Instream Construction Window	DRY OPEN CUT / JULY 1 - SEPT 15								Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)	MARBLD MURRELET (APRIL 1 - AUGUST 5 (DTRs))								Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk									Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test Viger Release / Aboveground Facilities / Residential									Hydrostatic Test Viger Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)									Survey Status (wetlands as of July 2017)



- NOTES:**
- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
  - In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
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**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way (Shown white on photography)
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Tax Parcel Boundaries
- Wetland
- Stream
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)

Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.

- Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
- Silt Fence (SF)
- Safety Fence (SAF)
- Slash Filter Windrow (SFH)
- Construction Entrance Pad (CE)

**BLM LANDUSE - 2016 RMP**

2a - District Designated Reserve (No Harvest)
2b - District Designated Reserve (No-Harvest)
3a - Late-Successional Reserve (Dry Forest)
3b - Late-Successional Reserve (Moist Forest)
4a - Riparian Reserve (Dry Forest)
4b - Riparian Reserve (Moist Forest)
5 - Estate Management Area
6 - Harvest Land Base (Uneven-Aged Timber Area)
7 - Harvest Land Base (Low Intensity Timber Area)
8 - Harvest Land Base (Moderate Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

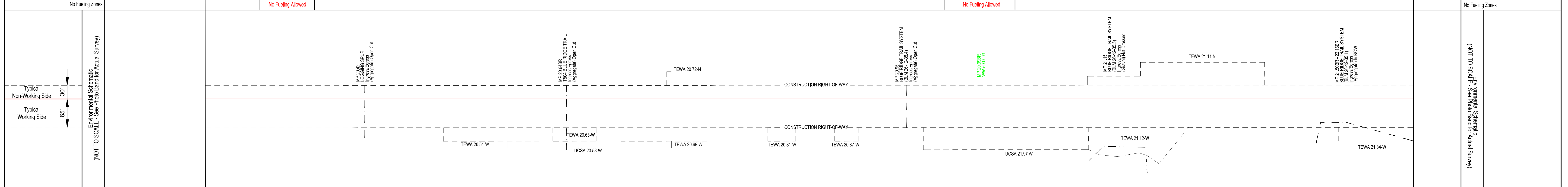
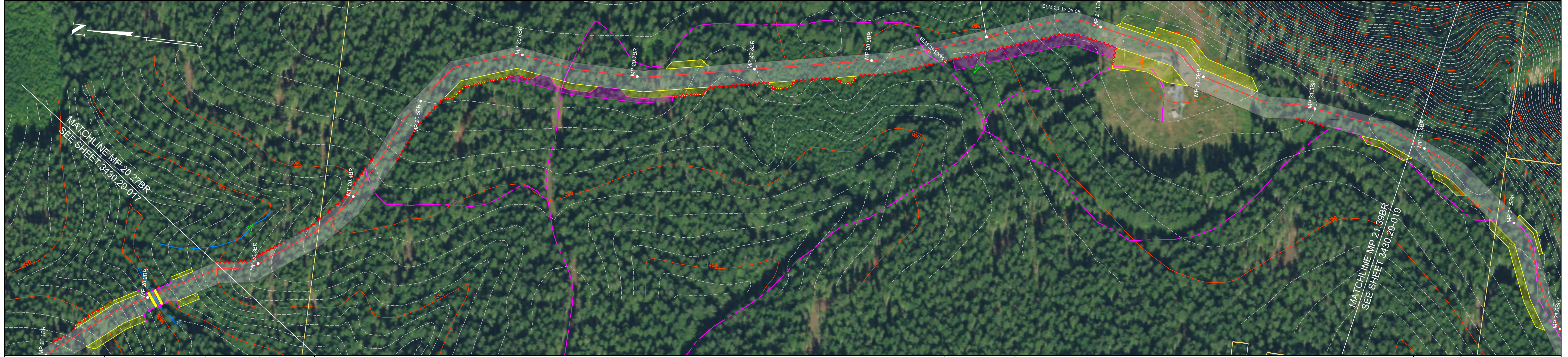
PUBLIC

**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

**SPREAD #1**  
**MP 19.25BR TO 20.27BR**  
**COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 Inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 Inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-017	SHEET 17 OF 226

Legal Location	T26S, R12W, Section 26		T26S, R12W, Section 35		Legal Location
Ownership / Management	CO-045.124		CO-045.125		Ownership / Management
Jurisdiction	BLM - COOS BAY DISTRICT				
Federal Landuse Allocation	3b	4b	3b	4b	3b
Areas of High Groundwater (Potential Trench Dewatering)	WW-500-003				
Wetland / Waterbody	Wetland / Waterbody				
Crossing Method / Instream Construction Window	MARBLED MURRELET (APRIL 1 - AUGUST 5 (DTRs))				
Biological Seasonal Construction Window (as of September 2017)	Biological Seasonal Construction Window (as of September 2017)				
Topsoil Salvage / Federal Lands Soil Risk	Hydrostatic Test / Water Release / Aboveground Facility / Residential				
Survey Status (wetlands as of July 2017)	Survey Status (wetlands as of July 2017)				



**NOTES:**

- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
- In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
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- Pacific Connector understands that fisheries' construction windows only apply to those waterbodies flowing at the time of construction and that the windows do not apply to HDD crossings.

**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)
- Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.
  - Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
  - Silt Fence (SF)
  - Safety Fence (SAF)
  - Slash Filter Windrow (SFH)
  - Construction Entrance Pad (CE)
- Tax Parcel Boundaries
- Wetland
- Stream

**BLM LANDUSE - 2016 RMP**

2a - District Designated Reserve (No Harvest)
2c - District Designated Reserve (No-Forest)
3a - Late-Successional Reserve (Dry Forest)
3b - Late-Successional Reserve (Moist Forest)
4a - Riparian Reserve (Dry Forest)
4b - Riparian Reserve (Moist Forest)
5 - Estate Management Area
6 - Harvest Land Base (Uneven-Aged Timber Area)
7 - Harvest Land Base (Low Intensity Timber Area)
8 - Harvest Land Base (Moderate Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

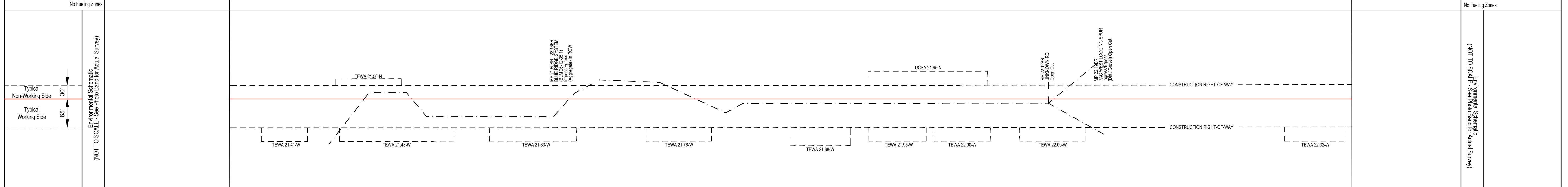
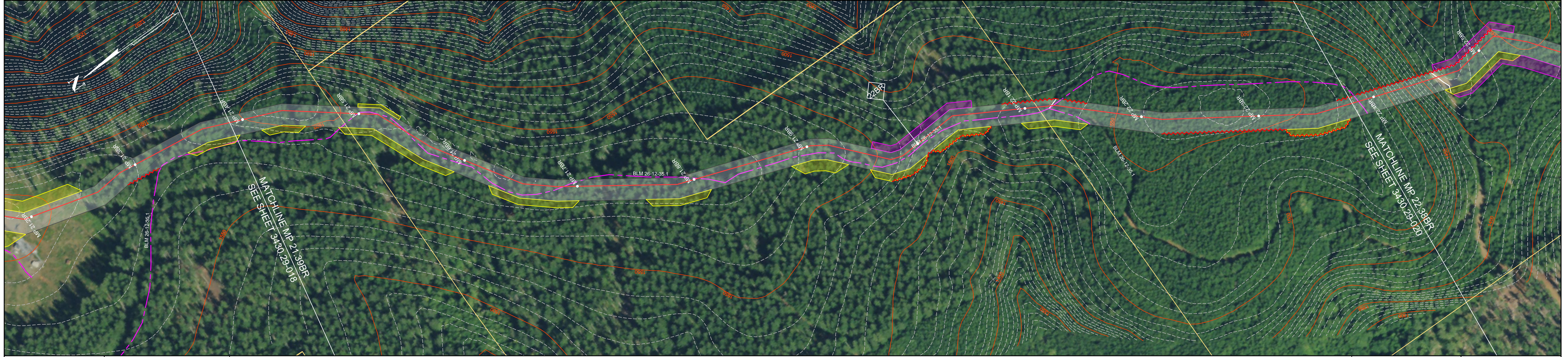
**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT  
PACIFIC CONNECTOR GAS PIPELINE, LP  
ENVIRONMENTAL ALIGNMENT**

**SPREAD #1  
MP 20.27BR - 21.39BR  
COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 Inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 Inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-018	SHEET 18 OF 226

Legal Location	T26S, R12W, Section 35	T27S, R12W, Section 2	Legal Location
Ownership / Management	CO-045.125	CO-045.126	CO-045.124
Jurisdiction	BLM - COOS BAY DISTRICT		COOS COUNTY
Federal Landuse Allocation	3b		Federal Landuse Allocation
Areas of High Groundwater (Potential Trench Dewatering)			Areas of High Groundwater (Potential Trench Dewatering)
Wetland / Waterbody			Wetland / Waterbody
Crossing Method / Instream Construction Window			Crossing Method / Instream Construction Window
Biological Seasonal Construction Window (as of September 2017)			Biological Seasonal Construction Window (as of September 2017)
Topsoil Salvage / Federal Lands Soil Risk			Topsoil Salvage / Federal Lands Soil Risk
Hydrostatic Test Water Release / Aboveground Facilities / Residential			Hydrostatic Test Water Release / Aboveground Facilities / Residential
Survey Status (wetlands as of July 2017)			Survey Status (wetlands as of July 2017)



- NOTES:**
- In wetlands cut vegetation off at ground level, leaving existing root systems in place and remove the vegetation from the wetland for disposal.
  - In wetlands limit pulling of tree stumps and grading activities to directly over the trench line. Do not grade or remove stumps or root systems from the rest of the construction right-of-way.
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  - Pacific Connector understands that fisheries' construction windows only apply to those waterbodies flowing at the time of construction and that the windows do not apply to HDD crossings.

**LEGEND**

- Proposed Pipeline
- Construction Right-of-Way
  - Temporary Construction Right-of-Way (Shown white on photography)
  - Temporary Extra Work Area
  - Uncleared Storage Area
  - Pipe Yard
  - Aboveground Facility
  - Rock Source/Disposal
- Access Road
- Permanent / Temporary Access Road (PAR / TAR)
- Tax Parcel Boundaries
- Wetland
- Stream
- Note: BMP type and placement to be determined by Environmental Inspector based on site-specific conditions.
  - Drivable Berm or Sediment Barrier / Portable Bridge / Wetland Crossing (DB, SB, PB, WC)
  - Silt Fence (SF)
  - Safety Fence (SAF)
  - Slash Filter Windrow (SFH)
  - Construction Entrance Pad (CE)

**BLM LANDUSE - 2016 RMP**

2a - District Designated Reserve (No Harvest)
2c - District Designated Reserve (No-Forest)
3a - Late-Successional Reserve (Dry Forest)
3b - Late-Successional Reserve (Moist Forest)
4a - Riparian Reserve (Dry Forest)
4b - Riparian Reserve (Moist Forest)
5 - Estabade Management Area
6 - Harvest Land Base (Unmanned Timber Area)
7 - Harvest Land Base (Low Intensity Timber Area)
8 - Harvest Land Base (Moderate Intensity Timber Area)

**FEDERAL LANDS SOIL RISK SENSITIVITY RANK**

1-Very Low
2-Low
3-Moderate
4-High
5-Very High

**REVISIONS**

NO.	DATE	BY	DESCRIPTION	CHK.	APP.
1	Sept-2017	EE	Issued for FERC Certificate Application	EE	EE

Scale: 200 0 200 400 FEET

**PUBLIC**

**PACIFIC CONNECTOR GAS PIPELINE PROJECT**  
**PACIFIC CONNECTOR GAS PIPELINE, LP**  
**ENVIRONMENTAL ALIGNMENT**

**SPREAD #1**  
**MP 21.39BR - 22.38BR**  
**COOS COUNTY, OREGON**

DRAWN BY: EE	DATE: SEPT-2017	ISSUED FOR BID:	24x36 SCALE: 1 Inch = 200 Feet
CHECKED BY: EE	DATE: SEPT-2017	ISSUED FOR CONSTRUCTION:	11x17 SCALE: 1 Inch = 450 Feet
APPROVED BY: EE	DATE: SEPT-2017	DRAWING NUMBER: 3430.29-019	SHEET 19 OF 226

**Pacific Connector**  
GAS PIPELINE