

**DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION 9
ALLEGHENY NATIONAL FOREST**

Turnup Run Timber Sale

FR 478	North Westline	1.8 Mile Reconst. – Maintenance – Level C
FR 500	Dutchman	2.0 Mile Reconst. – Maintenance – Level C
FR 500A	Dutchman A	0.6 Mile Reconst. – Maintenance – Level C
FR 504	Camp Run	5.2 Mile Reconst. – Maintenance – Level C
FR 504A	Camp Run A	1.0 Mile Reconst. – Maintenance – Level C
FR 504Aa	Camp Run AA	0.5 Mile Const. –Existing Corridor - Level D
FR 504B	Camp Run B	0.2 Mile Const. – Existing Corridor- Level D

Bradford Ranger District
McKean County
Pennsylvania

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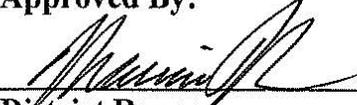
The location and design elements of this facility have been correlated with the plans, policies and constraints of the approved Upper Kinzua Environmental Assessment.

Plans are to be used with "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects FP-03 with Special Project Specifications thereto included in this contract

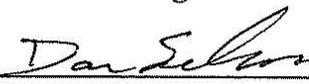
Prepared By:

Iran E. Martinez

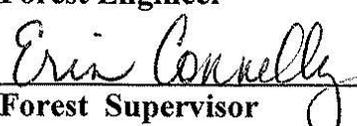
Approved By:


District Ranger

3/21/12
Date

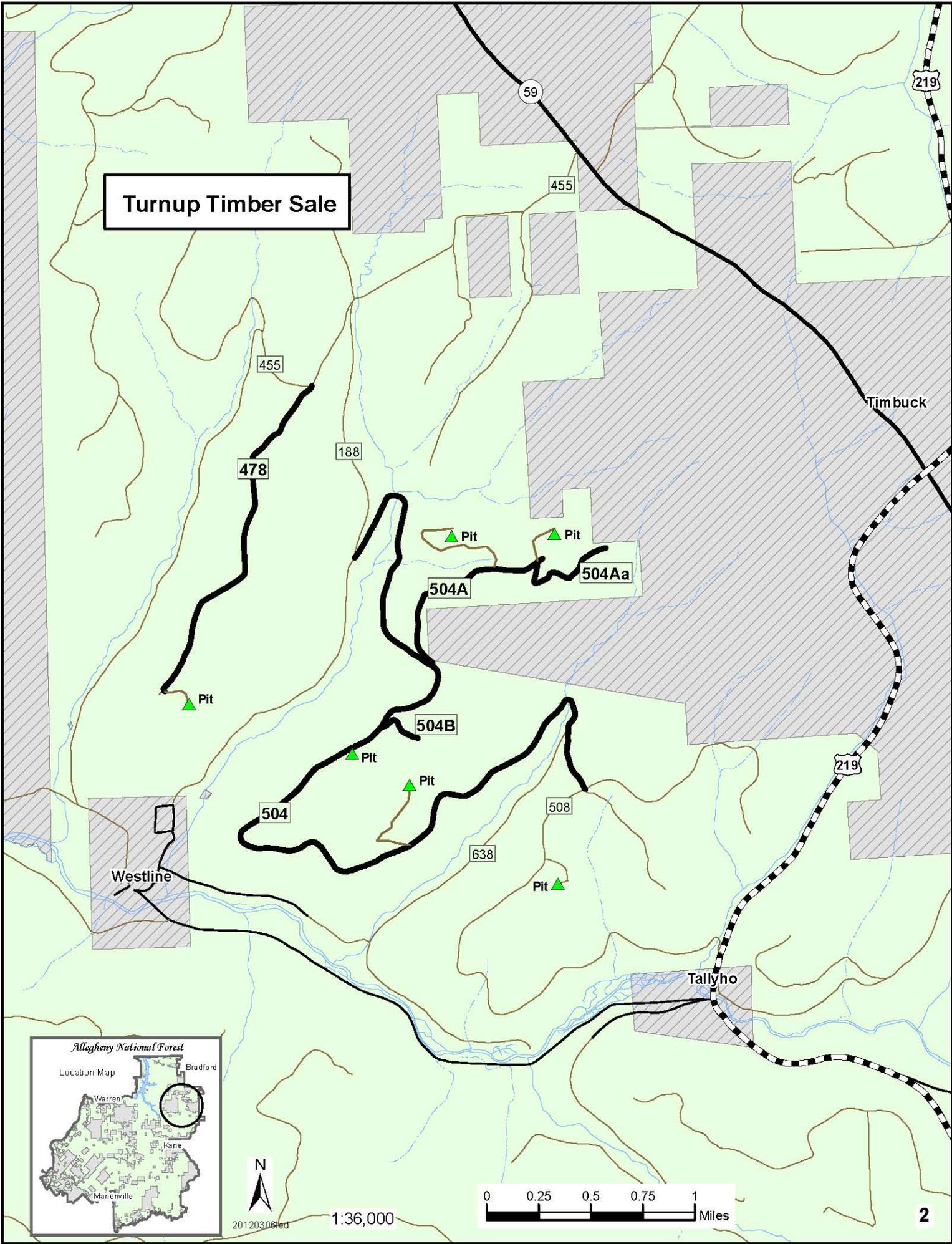

Forest Engineer

3/22/2012
Date


Forest Supervisor

3/23/2012
Date

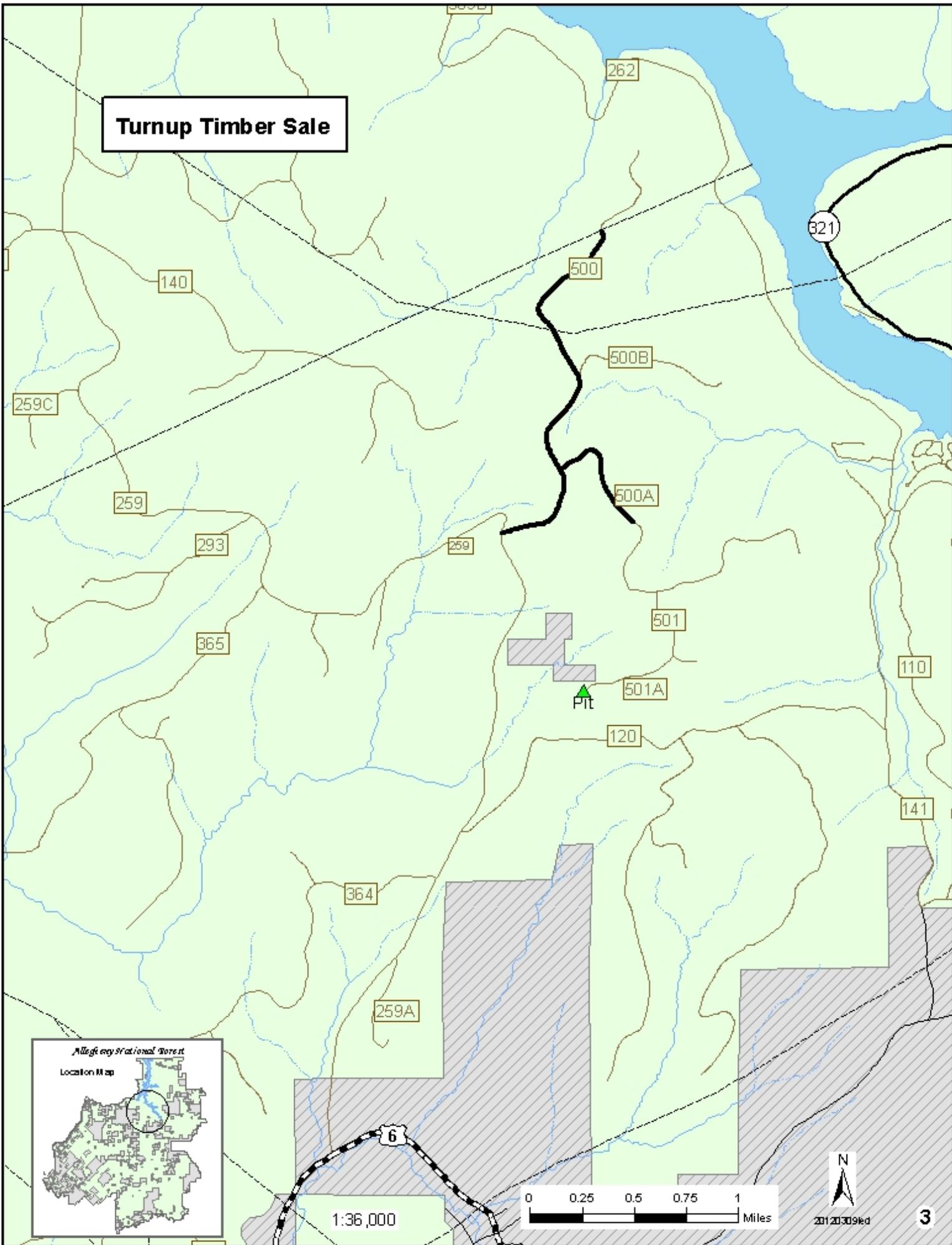
Turnup Timber Sale



1:36,000

0 0.25 0.5 0.75 1 Miles

Turnup Timber Sale



1:36,000

0 0.25 0.5 0.75 1 Miles



Schedule of Items

FR 478

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
20301	Removal of culverts	Each	1
20305	Removal of Structures and Obstructions	L.S.	1
23050	Brushing (medium)	Mile	0.5
30103	Aggregate base, grading pit run, compaction method B	Cubic Yard	24
30111	Aggregate surface course, grading pit run, compaction method B	Cubic Yard	150
30326	Road reconditioning	Mile	1.8
60263	18 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method A	Linear Foot	72
62501	Seeding, hydraulic or dry method (Lump Sum)	All	1
65001	Furnish and Install Road Closure Device, Type Gate 21'	Each	1
65101	Pit and quarry development	Each	1

FR 500

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
20301	Removal of culverts	Each	1
23050	Brushing (light)	Mile	1.5
30103	Aggregate base, grading pit run, compaction method B	Cubic Yard	24
30326	Road reconditioning	Mile	2.0
60263	18 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method A	Linear Foot	62
62501	Seeding, hydraulic or dry method (Lump Sum)	All	1
65101	Pit and quarry development	Each	1

FR 500A

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
20301	Removal of culverts	Each	2
30103	Aggregate base, grading pit run, compaction method B	Cubic Yard	24
30326	Road reconditioning	Mile	0.6
60263	18 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method A	Linear Foot	54
62501	Seeding, hydraulic or dry method (Lump Sum)	All	1
65003	Gate Repair	Each	1
65101	Pit and quarry development	Each	1

FR 504

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
20301	Removal of culverts	Each	5
23050	Brushing (light, spot)	Mile	3.5
	Brushing (light)	Mile	0.3
30103	Aggregate base, grading pit run, compaction method B	Cubic Yard	144
60263	18 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method A	Linear Foot	208
60263	24 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method A	Linear Foot	30
62501	Seeding, hydraulic or dry method (Lump Sum)	All	1
65003	Gate Repair	Each	1
65101	Pit and quarry development	Each	1

FR 504A

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
23050	Brushing (light)	Mile	1.0
30326	Road reconditioning	Mile	1.0

FR 504AA

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
30103	Aggregate base, grading pit run, compaction method B	Cubic Yard	24
30111	Aggregate surface course, grading pit run, compaction method B	Cubic Yard	1070
30326	Road reconditioning	Mile	0.5
60263	18 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method A	Linear Foot	48
62501	Seeding, hydraulic or dry method (Lump Sum)	All	1
63301	Sign system (road number and marker)	Each	2
65101	Pit and quarry development	Each	1

FR 504B

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
23050	Brushing (light)	Mile	0.2
30326	Road reconditioning	Mile	0.2
63301	Sign system (road number)	Each	1

General Notes

-Prior to any earth disturbing activities, contractor shall call the Pennsylvania One Call System (800-242-1776) and all Oil & Gas Operators in the work area to determine locations of any underground utility lines.

-Culvert cleaning and repair will be considered incidental to road reconditioning.

-Contractor is responsible for maintenance of all Forest Service roads over which pit run or commercial stone material is hauled. Roads shall be bladed or shaped to restore travel way to the condition found prior to haul.

-Contractor shall install "ROAD CONSTRUCTION AHEAD" signs on all roads worked on in this project area and at ATV trail crossings. Signs shall conform to the Manual on Uniform Traffic Control Devices (MUTCD). Signs shall be covered when construction activity is not taking place.

-Roads shall be completed in such a manner that water shall not pond on roadbed or in ditch lines.

-All removed corrugated metal pipe culverts shall be hauled off Federal lands and become the property of the contractor, unless otherwise indicated for salvage. Steel pipe casings shall be returned to the Sheffield Work Center unless otherwise directed by the Engineer.

-Forest Service gate plans are available at the Allegheny National Forest Supervisor's Office, Warren, PA. 16365. The following are gate manufacturers:

Gary Asel
Marienville, PA.
(814) 927-8380

ADM Welding
2818 Penna. Ave. West
Warren, PA. 16365
(814) 723-7227

-Contouring, topsoil respreading, seeding and mulching of disturbed areas as determined by the Forest Service is required.

-DSA limestone shall be shipped at optimum moisture content not exceeding 15%. Limestone loads that fail field test parameters will be rejected.

-When replacing culverts in live streams, contractor shall install silt fence and straw bales at approaches to live stream crossings to eliminate sediment in the stream course. When culverts are located on High Quality and Exceptional Value streams, contractor shall install compost filter socks. Any sediment collected will be removed and ground will be stabilized with seed and mulch. Dewatering pumps will be used to redirect water out of the stream course at the time of stream crossing installation. Silt fence and straw bales will be removed only after vegetation is clearly re-established as determined by the Engineer. Contractor is responsible for obtaining any Department Of Environmental Protection GP-11 or GP-7 stream crossing permits and preparing a Soil Erosion and Sediment Control Plan. This work will be considered incidental to Section 151 Mobilization.

-Roadway sod encountered during road reconditioning operations will be spread and leveled outside the road template avoiding piles. Natural terrain depressions and openings are the preferred waste locations. Seeding and mulching may be required to supplement natural revegetation.

-Vegetation cut down during roadside brushing will be pulled beyond the clearing limits and the toe of any roadway template construction. Mixing of soil and cut vegetation shall be avoided. All material will be scattered and lopped within 3' of the ground.

-Aggregate stockpiled for culvert replacement will be located on the existing road surface to assure maximum utilization of the material and eliminate disturbance of existing vegetated areas.

Road Log - Work Descriptions

FR 478 North Westline (Level C)

Station	Road Log/Work Description
Note: Overhead electric line left side of road	
0+00	Intersection with FR 455 station 97+06
0+00 - 93+65	Recondition roadbed, see TYPICAL RECONDITION SECTION, clean all culverts
0+00 – 18+50 and 85+00 – 93+65	Perform roadside brushing, see BRUSHING DETAIL (medium)
0+10	Carsonsite road number sign right
0+53	18" x 26' CMP
2+10	Replace Forest Service gate and signs
3+64	Well right
3+70	18" x 28' CMP, clean inlet and outlet
10+25	Well left
11+33	18" x 26' CMP
15+00 – 18+50	Apply 6" pit run surfacing
15+45	Well left
16+00	Tank battery left
16+70	OGM road left
18+30	18" x 26' CMP, clean inlet, when replaced install 18" x 28' CMP
18+50	End pit run surfacing, OGM road right
24+75	OGM road left, driveway casing
24+85	OGM road right
30+30	OGM roads left and right (driveway casing left)
33+80	18" x 26' CMP, when replaced install 18" x 30' CMP
35+00	Install 18" x 40' CMP, apply 12 CY pit run, need for runoff of OGM road at 35+50
35+50	OGM roads right and left, driveway casing left
35+50-43+00	Down cutting of ditch
39+40	Old road right, ATV use
41+25	OGM road left
41+50	OGM road right
43+60	Tank battery left, large clearing
45+95	OGM road left
46+80	OGM road left
50+15	Remove 18" x 24' CMP, install 18" x 32' CMP on right forward skew, apply 12 CY pit run, re-define leadoff right
52+05	OGM road right
54+00	OGM road left with driveway casing
57+45	18" x 26' CMP
60+20	OGM road right

62+65	OGM road right
63+00	18" x 26' CMP
63+30	OGM road left, new FR 478A left
68+90	OGM road right
73+50	18" x 26' CMP
76+40	Tank battery and pit left
85+00	OGM road left
85+00 – 93+65	Perform roadside brushing (medium)
88+10	18" x 26' CMP
91+00-92+30	Apply 10" pit run surfacing (60 cubic yards), before applying pit run remove small berm from left ditch line. Re-define ditch line left to allow runoff drain into culvert
92+70	18" x 30' CMP, OGM road right, road continues to left
93+65	Gate, end reconditioning, road continues
100+10	Pit location with open faces, visible stone

FR 500 Dutchman (Level C)

Station	Road Log/Work Description
0+00	Intersection FR 500 and FR 259 station 173+95
0+00 – 104+00	Recondition roadbed see TYPICAL RECONDITION SECTION
26+05 – 104+00	Perform roadside brushing (light) see TYPICAL BRUSHING DETAIL
0+00-3+00	Existing 4" DSA limestone surfacing (2005)
1+80	18" x 24' CMP
3+25	18" x 26' CMP
3+50	18" x 26' CMP
4+00	Forest Service gate
6+60	18" x 26' CMP
12+80	Turnout right
13+95	Remove 18" x 28' CMP, install 18" x 30' CMP, apply 12 CY pit run
16+55	18" x 28' CMP
19+35	16" x 26' steel pipe casing
22+75	Turnout right
26+05 – 104+00	Roadside brushing (light)
26+05	Intersection FR 500A right
27+10	21" x 15" x 28' CMPA
29+00	Turnout left
30+90	18" x 28' CMP
34+15	18" x 26' CMP
35+20	Turnout left
38+35	18" x 30' CMP on right forward skew (2005)
42+95	18" x 26' CMP
45+80	18" x 30' CMP on right forward skew (2005)
50+10	Turnout right
51+60	18" x 42' CMP, 5 tons R-4 riprap at outlet, road bears to the left
55+45	18" x 26' CMP, 2 tons R-4 riprap at outlet (2005)
60+10	Parking lot left
61+90	Forest Service gate
64+45	18" x 26' CMP
65+55	Electric line crosses road
65+55	Turnout left
69+95	18" x 26' CMP
72+00	Turnout left
77+40	18" x 26' CMP, 3 tons R-4 riprap at outlet
81+85	18" x 30' CMP, place 3 tons R-4 riprap at outlet (2005)
82+00	Turnout left
84+00	Turnout left
86+75	18" x 26' CMP, remove dead tree limbs from inlet

91+00	Install 18" x 32' CMP left forward skew, apply 12 CY pit run
91+45	Turnaround right, well right
91+45	Road turns into a Level D from this point
94+05	18" x 24' CMP (2005)
97+65	Turnaround right
100+25	Turnout left
104+00	Turnout left, well right
104+00	End reconditioning, road continues

FR 500A Dutchman A (Level C)

Station	Road Log/Work Description
0+00	Intersection with FR 500 at Station 26+47
0+00-32+75	Recondition roadbed to TYPICAL RECONDITION SECTION
0+30	STOP sign left
0+60	Road number sign right
4+25	Forest Service gate, replace all signs
4+30	18" x 30' CMP
7+30	Remove 18" x 26' CMP, install 18" x 26' CMP, apply 12 CY pit run
7+90	100' turnout left
7+90-8+95	CAUTION: GAS PIPELINE left
8+60	Food plot left
10+70	Turnout left
15+00	18" x 26' CMP (2030)
16+95	60' x 20' Turnaround left
22+75	18" x 26' CMP (2030)
24+10	150' turnout right
29+60	Remove 18" x 26' CMP, install 18" x 28' CMP, apply 12 CY pit run
32+75	150' turnout left
32+75	End reconditioning, road continues

FR 504 Camp Run (Level C)

Station	Road Log/Work Description
0+00	Intersection FR 504 and FR 188 Station 66+05
72+20 – 256+22	Perform roadside brushing (light spot brushing)
248+84 – 251+54	Perform roadside brushing (right), to improve sight distance for upcoming traffic approaching curve (8' to 10' off the road)
256+22 – 274+04	Perform roadside brushing (light), see BRUSHING DETAIL
0+30	STOP sign left
0+70	Road number sign right
3+05	16" x 32' steel casing on right forward skew
4+00	NARROW ROUGH ROAD sign right
4+55	18" x 28' CMP
5+80	Reshape turnout left
7+90	OGM road right
9+15	18" x 28' CMP
10+15	Turnout right
11+80	Well right
12+60	18" x 28' CMP
15+95-21+25	Exiting limestone surfacing
16+20	18" x 30' CMP
16+50	OGM road left with limestone surfacing
19+55	Twin 72" x 40 CMPs
20+15	Turnout right
21+00	Access road right to creek for water truck
21+45	OGM road left
21+75	Tank battery left, existing limestone ends
21+95	18" x 31' CMP
23+35	OGM road right
24+45	18" x 26' CMP
27+55	18" x 30' CMP (2006)
31+20	Turnout left
33+50	OGM road right
33+85	Turnout right
35+00-49+00	Existing DSA limestone surfacing
35+00	Turnout right
36+55	18" x 30' CMP, spring, re-shape ditchline to allow spring to drain into 36+55
38+30	18" x 36' CMP
38+85	Turnout left
39+70	OGM road right
41+65	OGM road and well left
42+65	18" x 26' CMP (2006)
43+05	16" x 36' steel casing, spring
43+40	Turnout right

46+70	Turnout right
47+08	18" x 32' CMP
49+00	Existing limestone surfacing ends
51+70	18" x 36' CMP, spring
55+50	18" x 26' CMP (2006)
59+85	18" x 28' CMP (2006)
60+55	Turnout right
61+40	OGM road left
61+75	18" x 26' CMP
64+70	18" x 32' CMP, re-shape ditchline
65+85	18" x 30' CMP
68+80	18" x 28' CMP (2006)
72+20	FR 504A left
72+20 – 256+22	Perform roadside brushing (light spot brushing)
73+90	24" x 32' CMP
76+30	Pipeline crosses road
77+90	18" x 28' CMP
78+80	Turnout right and left
79+85	Remove 18" x 22' CMP, install 18" x 26' CMP, apply 12 CY pit run
81+30	OGM road right
84+50	Turnout left
85+55	18" x 26' CMP (2006)
87+90	Turnout left
89+95	18" x 26' CMP
92+30	Turnout right
93+35	OGM road right to be reconstructed as FR 504B
93+80	20" x 32' steel casing (2006)
95+50	Turnout left
95+80	Turnout right
96+40	OGM road left
98+25	20" x 28' steel casing on right forward skew
98+40	OGM road/well left
100+96	18" x 28' CMP
103+03	Well left
103+03-115+40	Pipeline buried right side of road
103+65	Pit road left (depleted)
105+86	18" x 26' CMP
107+50	Turnout left
111+15	18" x 22' CMP
111+69	Turnout left
114+17	Well left
114+81	18" x 24' CMP
115+40	OGM road right
116+84	Turnout left
117+30	OGM road right

118+85	18" x 22' CMP
119+95	OGM road left
120+90	18" x 22' CMP
122+46	Turnout left
128+19	Well right
128+35	Install 18" x 26' CMP, apply 12 CY pit run
129+27	Pipeline crosses road
130+00	OGM road right
131+88	OGM road left
131+88-213+16	Pipeline right side of road
133+60	18" x 22' CMP
134+58	Turnout right
137+39	18" x 28' CMP
139+05	18" x 28' CMP
141+11	Well left
141+85	OGM road to well
143+75	Turnout right
145+63	Well left
146+32	OGM road left and right
146+56	18" x 24' CMP
146+74	Turnout left
150+51	18" x 22' CMP
153+39	OGM road left
153+86	Pipeline crosses road
154+44	20" x 24' pipe casing
157+75	18" x 22' CMP
160+31	20" x 40' pipe casing
160+98	OGM road left, use as turnout
161+93	OGM road right
162+07	Pipeline crosses road
163+77	18" x 26' CMP
164+59	Turnout left
166+70	18" x 22' CMP
169+27	Turnout right
170+17	20" x 24' pipe casing
171+00	Install 18" x 26' CMP, apply 12 CY pit run
172+10	Construct turnout left, apply 24 CY pit run
173+60	Pipeline crossing
175+72	OGM road left
175+80	20" x 36' pipe casing
178+25	Remove 18" x 22' CMP, install 18" x 26' CMP, apply 12 CY pit run
180+83	OGM road right
181+98	18" x 26' CMP
182+18	Turnout left
182+91	OGM road right

184+70	18" x 28' CMP
184+75	Turnout right
187+53	18" x 28' CMP
190+33	OGM road left
190+59	20" x 36' pipe casing
193+64	Remove 18" x 22' CMP, install 18" x 26' CMP, apply 12 CY pit run
195+00	Turnout left
198+00	Install 18" x 26' CMP, apply 12 CY pit run
198+03	OGM road left
199+96	Turnout left
201+24	OGM road right
202+07	18" x 28' CMP
203+90	16" x 26' pipe casing
204+18	OGM road left
206+10	Remove 18" x 22' CMP, install 24" x 30' CMP, apply 24 CY pit run
208+10	Log landing left
209+25	18" x 28' CMP
209+43	Turnout left
211+75	Well jack left
213+16	OGM road left, pipeline crosses road
213+55	20" x 36' pipe casing
213+70	Turnout left
216+63	18" x 24' CMP
218+67	Turnout left
222+33	18" x 28' CMP
224+00	OGM road left
225+06	18" x 28' CMP
226+81	Turnout left
231+87	18" x 28' CMP
232+44	Turnout left
235+89	Install 18" x 26' CMP on skew, apply 12 CY pit run
236+00	OGM road right
237+76	Turnout left
239+37	Remove 18" x 22' CMP, install 18" x 26' CMP, apply 12 CY pit run
243+93	18" x 28' CMP
243+93-256+25	Existing 2RC limestone surfacing
244+20	Abandoned well site left
246+50	18" x 28' CMP
246+99	Turnout left
247+56	Turnaround left
248+24	60" x 42" x 44' CMPA
248+84 – 251+54	Perform roadside brushing (right) to improve sight distance for upcoming traffic approaching curve (8' to 10' off the road)

249+94	18" x 28' CMP
249+94-251+54	Ditchline eroding
252+16	18" x 26' CMP
252+94	Turnout right
254+06	ROAD CLOSED 500' sign right
254+28	18" x 28' CMP
256+08	18" x 30' CMP
256+22	Repair and paint Forest Service gate
256+22 – 274+04	Perform roadside brushing (light)
257+22	FR 638 right
258+66	18" x 26' CMP
262+15	18" x 30' CMP
262+88	Turnout right
264+44	ROAD CLOSED 500 FEET sign
268+06	18" x 26' CMP
269+35	ROAD CLOSED 500 FEET sign
271+17	18" x 26' CMP
273+33	Forest Service gate
273+62	Road number sign left
274+04	Intersection FR 508, end of road

FR 504A Camp Run A (Level C)

Station	Road Log/Work Description
0+00	Intersection with FR 504 station 72+20
0+00-51+15	Recondition roadbed, see TYPICAL RECONDITION SECTION; clean all culverts; perform roadside brushing, see BRUSHING DETAIL (light)
0+30	Road number sign right
0+50	STOP sign left
2+93	Turnout left
4+43	18" x 32' CMP
6+04	Turnout left
10+15	18" x 28' CMP
12+00	OGM road left
13+42	Turnout left
16+30	16" x 38' steel pipe casing
16+46	Private road right
18+13	18" x 28' CMP
19+06	Turnout left
24+72	18" x 28' CMP
25+45	Well left
26+76	Turnout right
28+65	18" CMP
28+80	OGM road right
31+31	18" x 26' CMP
33+82	Turnout left
35+09	OGM road to well left
35+34	18" x 26' CMP
36+90	Tank battery left
38+51	Turnout left
39+42	Well left, OGM road left
42+64	18" x 28' CMP
45+15	OGM road right and left
45+60	18" CMP
45+95	Turnout right
51+15	OGM road right and left; road right to be reconstructed as FR 504AA
52+12	Turnaround left
52+80	End of road, OGM road continues

FR 504Aa Camp Run A (Level D)

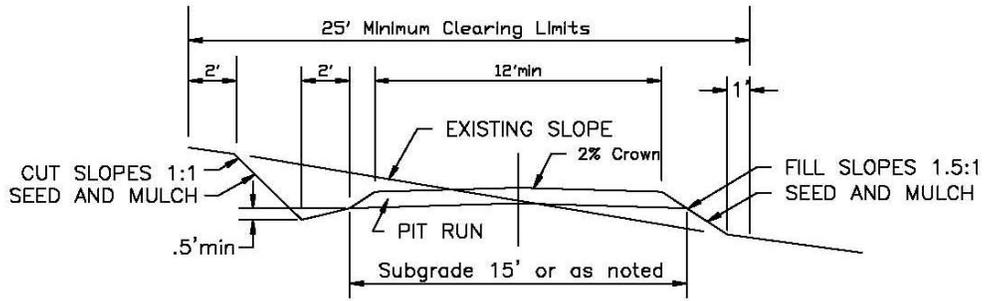
Station	Road Log/Work Description
0+00	FR 504 station 51+15
0+00-28+30	Reconstruct existing OGM road, see TYPICAL CONSTRUCTION SECTION; clean all culverts
0+00-28+30	Apply 9" pit run surfacing
0+10	12" x 25' steel casing, clean inlet/outlet, install carsonsite delineator/marker at outlet*
0+20	Install road number sign right
5+30	Well jack right
8+80	Reconstruct leadoff ditch right
9+40	Well jack right
9+75	12" x 24' steel casing
12+80	12" x 26' steel casing
16+00	Well jack right
20+70	Well jack right, turnout left
22+60	Install 18" x 24' CMP, apply 12 CY pit run
26+40	Install 18" x 24' CMP, apply 12 CY pit run
28+30	Well jack right, end of road

*Forest Service will supply carsonsite marker to contractor

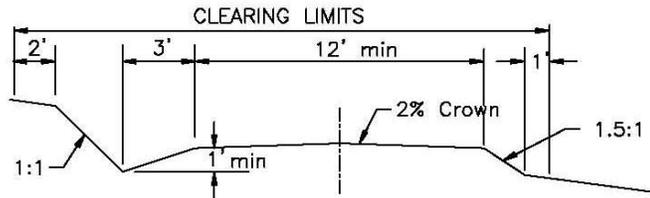
FR 504B Camp Run B (Level D)

Station	Road Log/Work Description
0+00	FR 504 station 93+35
0+00-11+70	Reconstruct existing OGM road, see TYPICAL CONSTRUCTION SECTION; clean all culverts; perform roadside brushing, see BRUSHING DETAIL (light)
0+20	STOP sign left
0+25	Install road number sign right
1+30	Well jack left
2+00	16" x 38' pipe casing, clean inlet
2+60	Power line left
3+40	Well road left
4+50	Well road left
6+90	Fork in road, stay left
11+70	Well jack left, end of road, road continues right

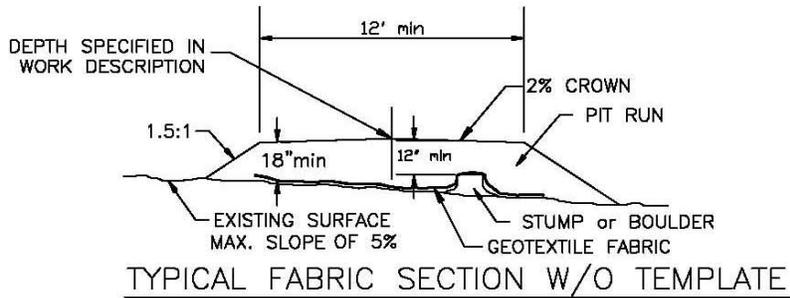
Roadbed Details



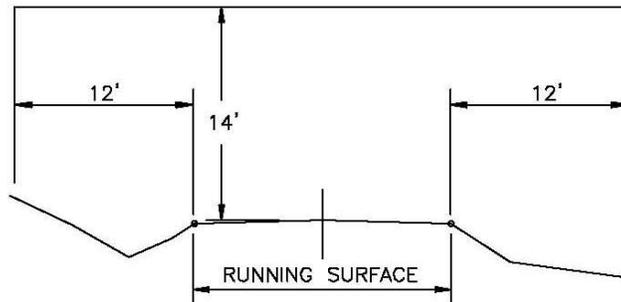
TYPICAL CONSTRUCTION SECTION



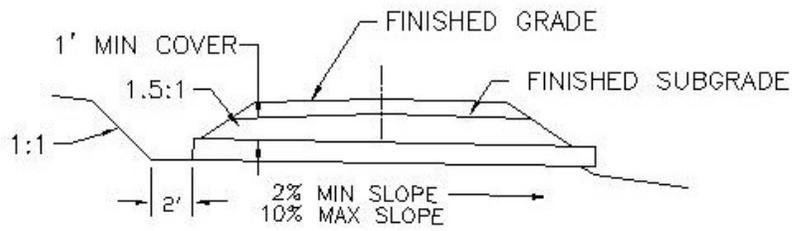
TYPICAL RECONDITION SECTION



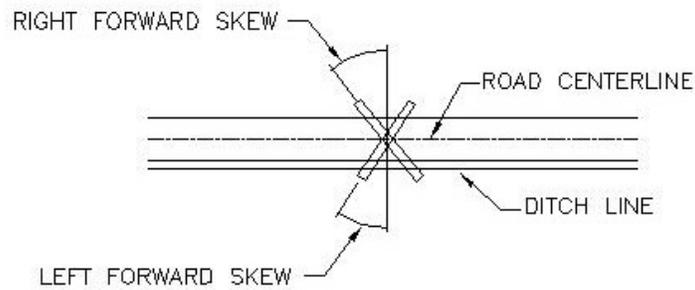
TYPICAL FABRIC SECTION W/O TEMPLATE



ROADSIDE BRUSHING DETAIL

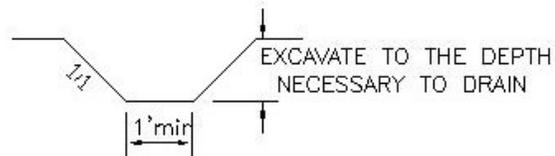


CULVERT SECTION

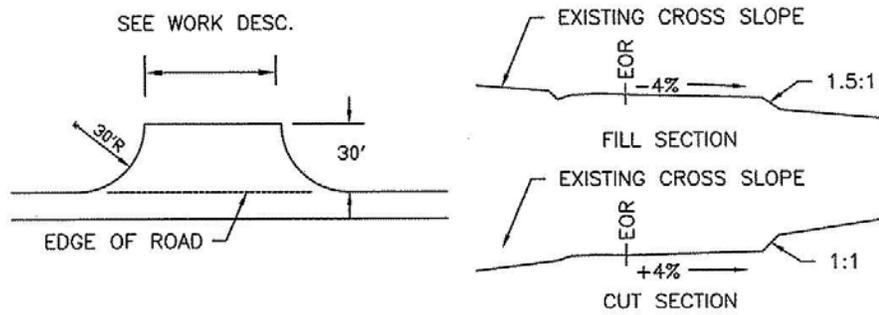


SKEW DETAIL

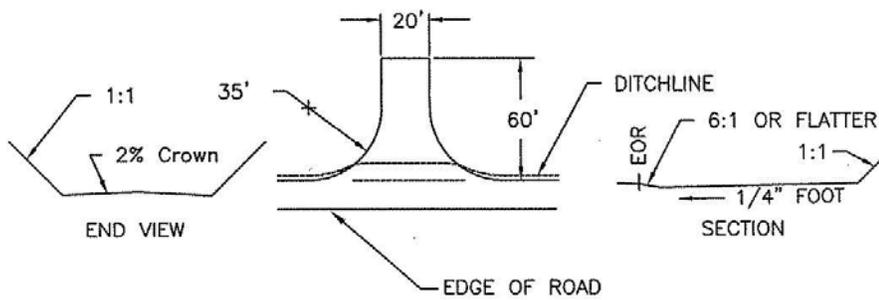
NOTE: Field locate ditch to minimize new clearing



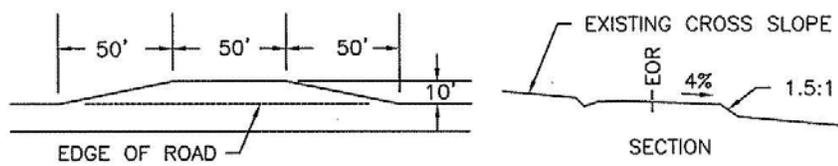
OUTLET/LEAD OFF DITCH SECTION



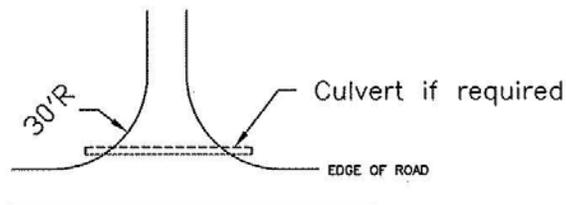
PARKING LOT DETAIL



TURNAROUND DETAIL



TURNOUT DETAIL



INTERSECTION DETAIL

GENERAL NOTES

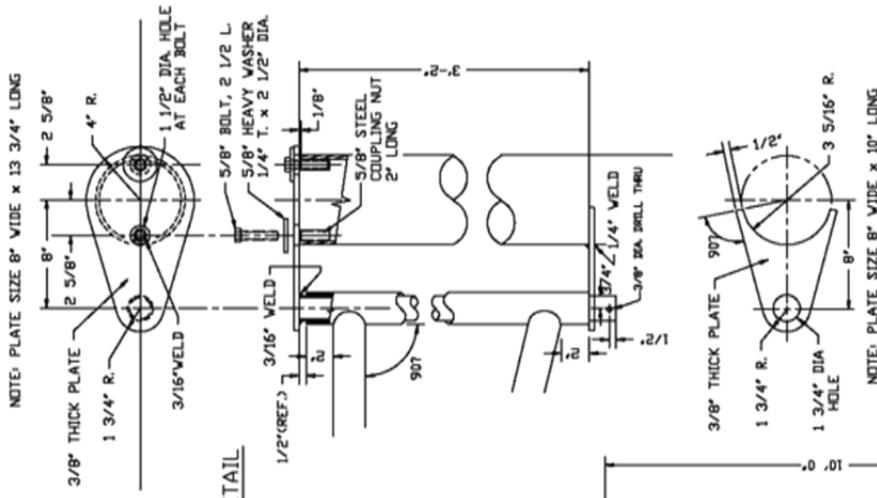
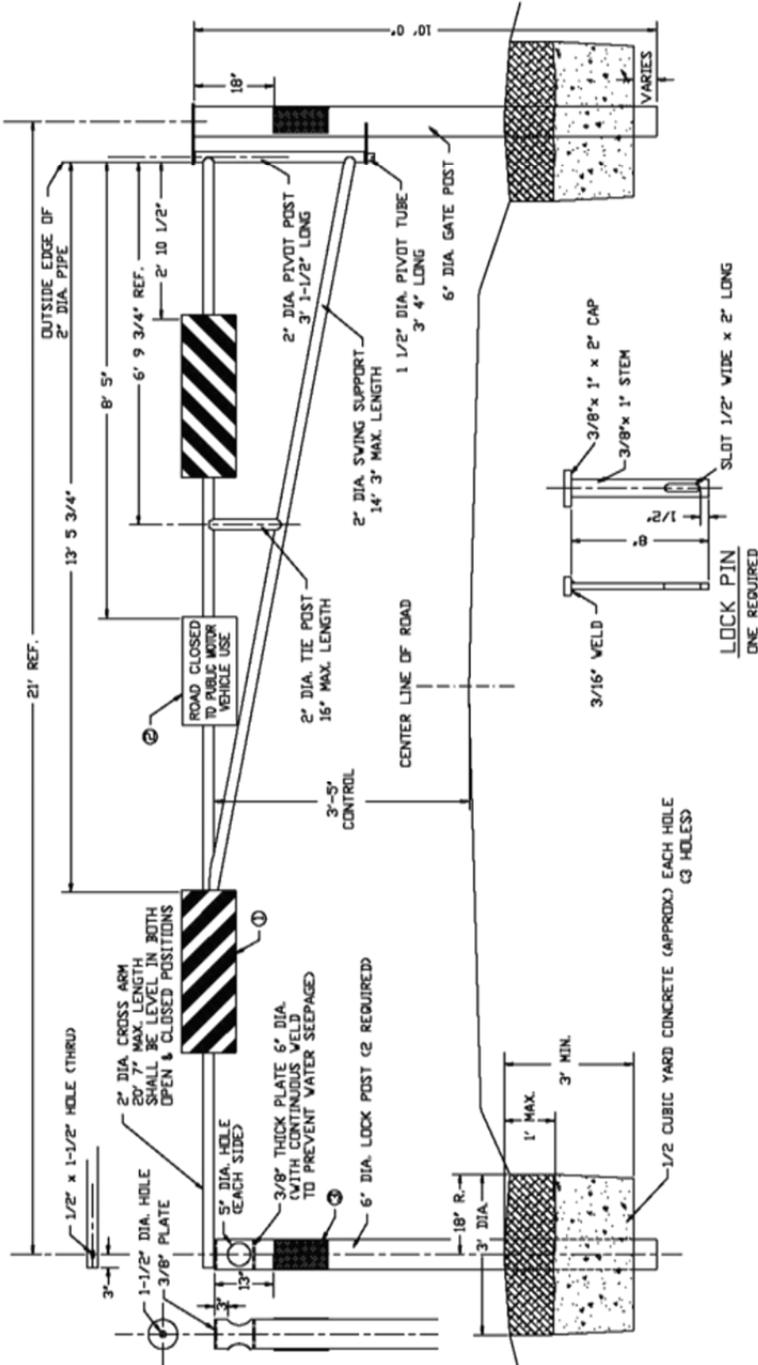
- ALL STEEL SHALL BE PAINTED WITH (2) COATS OF IRON OXIDE RED PRIMER AND (3) COAT OF VALUAT BROWN PAINT, FED. STANDARD 595 A PAINT NO. 20140 (EXCEPT PIVOT TUBE)
- ALL STEEL SHALL BE NEW MATERIAL
- WELD ALL CROSS ARM ASSEMBLY JOINTS WITH 3/16" FILLETS ALL AROUND ALL WELDS ON GATE ASSEMBLY SHALL BE STRUCTURALLY SOUND
- DRILL 1/4" DIAMETER HOLES 4" ON CENTER IN BOTTOM OF CROSS ARM TO FACILITATE DRAINAGE.
- APPLY GREASE TO OUTSIDE OF PIVOT TUBE, ENTIRE LENGTH, PRIOR TO INSTALLATION OF CROSS ARM ASSEMBLY. TYPE OF GREASE SHALL BE EXTREME PRESSURE MULTIPURPOSE WHEEL BEARING GREASE OR EQUAL
- POSTS SHALL BE ENCASED WITH CONCRETE TO WITHIN 1 FT. OF GROUND LEVEL AND BACKFILL COMPACTED (3) POSTS)
- PRIOR TO GATE INSTALLATION, NOTIFY FOREST SERVICE FOR LOCATION ON ROAD
- PARTS MAY BE FLAME CUT AND ALL BURRS REMOVED
- INSTALL SIGNS AFTER INSTALLATION OF GATE
- TECHNICAL CONTACT IS JIM DUCKETT, FOREST SERVICE, WARREN, PA. (814) 728-6257

SIGN CODE

- (1) (2) L-R AND (2) R-R TYPE 1 BARRICADE MARKERS - RED ON WHITE - 12" x 36"
 - (3) ROAD CLOSED TO PUBLIC MOTOR VEHICLE USE
 - (4) (5) TYPE 2 OBJECT MARKERS (OM-2-B) - YELLOW (REFLECTORIZED) - 6" x 12" (2) ON GATE POST AND (2) ON CLOSED POSITION LOCK POST (3) ON OPEN POSITION LOCK POST FACED TO ONCOMING TRAFFIC
- NOTE: ALL SIGNS SHALL BE FURNISHED BY THE FOREST SERVICE AND INSTALLED BY THE CONTRACTOR.

ESTIMATED QUANTITIES

MATERIAL	QUANTITY (LF)	REMARKS
1-1/2" DIA PIPE (NOM)	3' 4"	PIVOT TUBE
2" DIA PIPE (NOM)	39' 4"	CROSS ARM ASSEMBLY
6" DIA PIPE (NOM)	30' 0"	GATE POSTS (3)
3/8" x 1" STRAP	0' 10"	LOCK PIN
3/8" x 8" PLATE	4' 1"	MISC.
BOLTS, NUTS, WASHERS		TWO (2) OF EACH



LEVEL 'D' FOREST SERVICE GATE
ALLEGHENY NATIONAL FOREST
WARREN, PA
DES. DRAWING: J. JONSON, R. GALLO - 9/27/99
CHK. J. JONSON & R. GALLO - 10/99
NOT TO SCALE

Pit Development Plan

Pit run for this project will come from the pits off of FR 478 (at end of road), FR 504A (end of road turn left), FR 504A (39+60) turn left follow ogm road to pit, FR 508B, and FR501A.

A. Pit Development

1. The overburden removed will be stockpiled in a location agreed upon by the Forest Service and the contractor, and used for pit reclamation.
2. Only ONE face of the pit is to be open and worked on at any given time.
3. High walls are a violation of OSHA regulations.
4. The pit floor will be sloped to prevent pooling of water.
5. Any oversized material left over in the pit area shall be stockpiled at a mutually agreed upon, by Forest Service and contractor, location.
6. No disposed equipment, trash, vehicles, pipe, or miscellaneous supplies will be allowed to accumulate or be stored in the pit and surrounding areas unless first agreed to by the Forest Service.
7. Operator will not undermine any boundary of the pit area.
8. No slash, soil or stumps will be permitted against live trees. No undercutting of roots of live trees allowed.

B. Timber

1. Slash resulting from this project will be scattered outside the clearing limits of the road and pit site. Stumps will be scattered at random and set upright. Stumps will be pulled into the pit floor not out into the woods.
2. The Forest Service will mark any further pit expansion after being notified, in advance by the Operator.
3. Any timber stored within the pit area that is decked for a timber sale shall not be damaged or buried. Timber shall be decked at a location designated by the Forest Service.
4. No timber may be cut or pushed over unless it is marked by the Forest Service and compensated for.

C. Pit Reclamation

1. As each open face is depleted of suitable rock material, that area will be reclaimed promptly to a slope of 1.5:1 or greater using the previously stockpiled overburden.
2. The slope/reclaimed area will then promptly be seeded, fertilized, and mulched using a non-exotic seed mixture designed by the Forest Service.
3. Areas seeded that are not receiving 50% or greater germination will be reseeded within 30 days, or the next suitable seeding season.
4. No open face of the pit will be closed without prior notification to the Forest Service.
5. When excavation of material is complete, the Forest Service will be notified to approve and document the reclamation work.