

DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION 9
ALLEGHENY NATIONAL FOREST

Four Ducks Timber Sale

FR 485 Old Ung

0.7 Miles Reconstruction – Level D

Marienville 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 North End Environmental Assessment.

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

Prepared By:

Jennifers Dean

Approved By:

Scott Hill

District Ranger

6/14/12

Date

Das Wilson

Forest Engineer

6-15-2012

Date

Erin Connelly

Forest Supervisor

6/15/2012

Date

SCHEDULE OF ITEMS

FR 485

ITEM	DESCRIPTION	UNIT	QTY
15101	Mobilization	All	1
20301	Removal of culverts	Each	5
23050	Brushing, light to medium	Mile	0.7
30103	Aggregate base, grading pit run, compaction method A	Cubic Yard	1275
30326	Road reconditioning	Mile	0.7
60263	18 inch aluminized steel, type 2, corrugated metal pipe, 0.064 inch thickness, method A	Linear Foot	130
61905	Paint existing gate	All	1
62503	Seeding, hydraulic or dry method	All	1
65101	Pit and quarry development	Each	1

General Notes

- All road work will be completed prior to timber haul, unless otherwise approved.
- Contractor is responsible for maintenance of all Forest Service roads over which pit run or limestone material is hauled. Roads shall be bladed or shaped to restore travel way to the condition found prior to haul.
- *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 shall furnish, erect and maintain the minimum barricades and warning signs identified in the Special Project Specifications until final inspection and acceptance, unless otherwise directed by the Engineer. Signs shall conform to the Manual on Uniform Traffic Control Devices (MUTCD). **Contractor shall install "ROAD CONSTRUCTION AHEAD" signs on all roads in this project area and at ATV trail crossings. Contractor's sign plan must be approved by Forest Service prior to work. Signs will be covered on weekends, holidays and any days when contractor is not working.**
- Oversize material and boulders encountered during construction or remaining after processing on the finished road surface will be hauled back to the pit or placed as directed by Forest Service.
- Pit run aggregate quantities are estimated as compacted in place on the road.
- Roads shall be completed in such a manner that water shall not pond on roadbed or in ditch lines.
- The Forest Service will mark clearing limits.
- All removed culverts shall be hauled off Federal lands and become the property of the contractor, unless otherwise indicated for salvage by the Forest Service. 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, 222 Liberty Street, 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
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- 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 test parameters will be rejected.
- When replacing culverts in live streams, contractor shall install silt fence and/or silt sock at approaches to live stream crossings to eliminate sediment in the stream course. 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 silt sock 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.

- 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.

**FR 485 Old Ung (Level D)
May 2012**

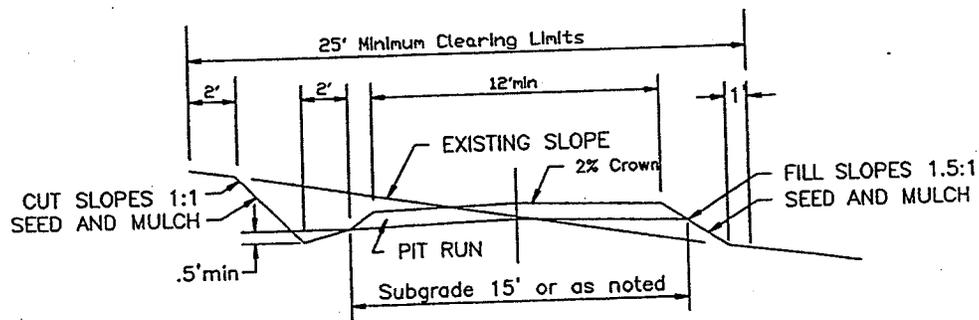
Station	Road Log/Work Description
0+00	Intersection with FR150
0+00-38+00	Apply 8" pit run
0+00-38+00	Recondition roadside ditches, see TYPICAL RECONDITION SECTION
0+00-38+00	Light to medium brushing, see, TYPICAL BRUSHING DETAIL
0+35	Stop sign left, FR485 sign right
1+30	Repaint Forest Service gate, see LEVEL D FOREST SERVICE GATE DETAIL
4+70	16" X 24' steel casing
10+00	16" X 24' steel casing
13+00	16" X 24' steel casing
18+00	Remove 18" x 26' CMP, install 18" x 26' CMP, apply 12 CY pit run
19+50	Construct turnout left, apply 50 CY pit run, see TYPICAL TURNOUT DETAIL
21+00-22+50	Gas line crossing
22+25	Remove 18" x 26' CMP, install 18" x 26' CMP, apply 12 CY pit run
27+45	Construct turnout left, apply 50 CY pit run, see TYPICAL TURNOUT DETAIL
28+00	Remove 18" x 26' CMP, install 18" x 26' CMP, apply 12 CY pit run
29+00	Old road left
29+80	Turnout left

35+60 **Remove 18" x 26' CMP, install 18" x 26' CMP, apply 12 CY
pit run**

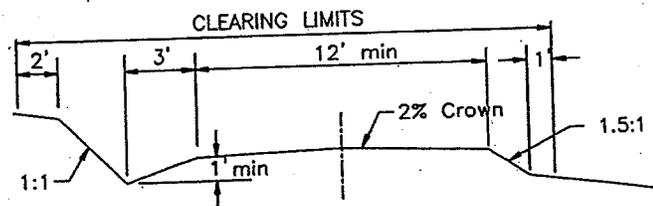
37+80 **Remove 18" x 26' CMP, install 18" x 26' CMP, apply 12 CY
pit run**

38+00 Turnaround right

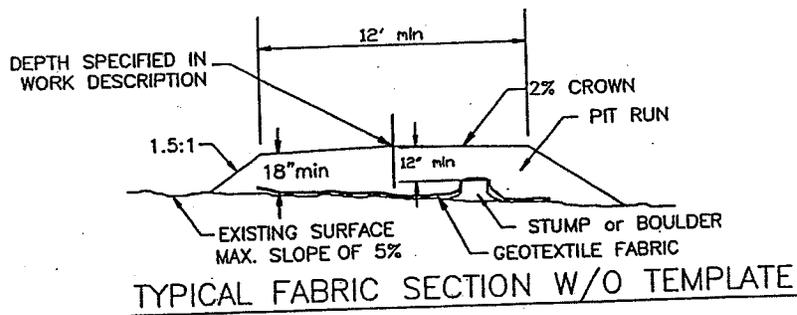
38+00 **END OF THIS CONTRACT (Four Ducks Timber Sale, 2012)**



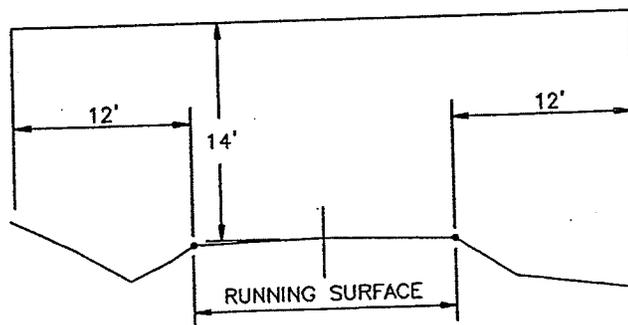
TYPICAL CONSTRUCTION SECTION



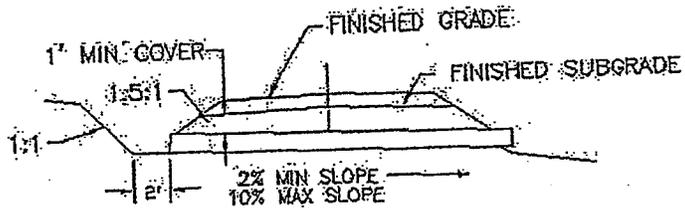
TYPICAL RECONDITION SECTION



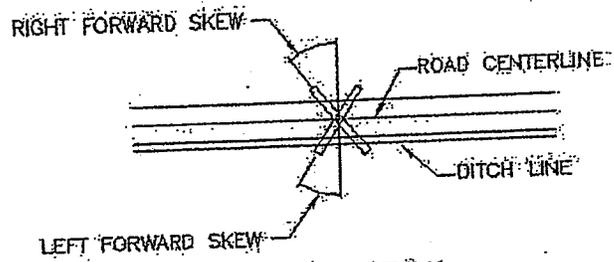
TYPICAL FABRIC SECTION W/O TEMPLATE



ROADSIDE BRUSHING DETAIL



CULVERT SECTION

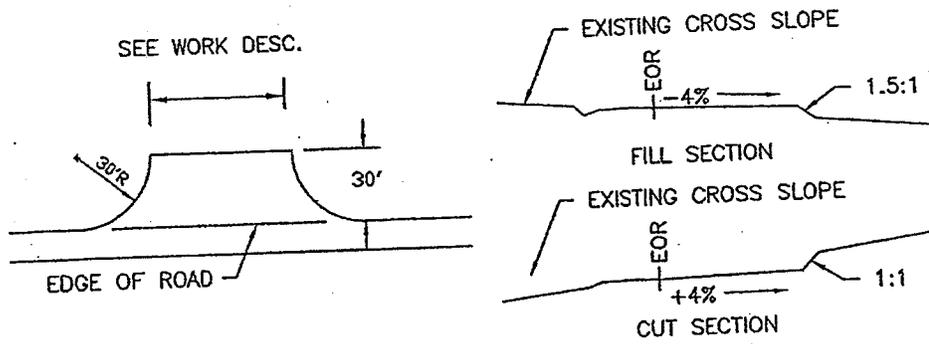


SKEW DETAIL

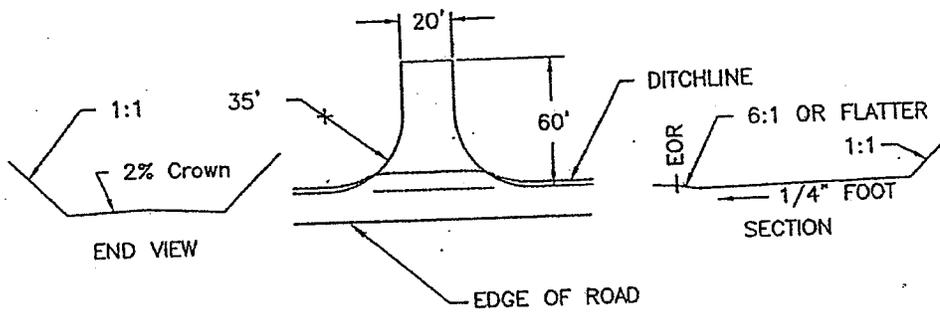
NOTE: Field locate ditch to minimize new clearing



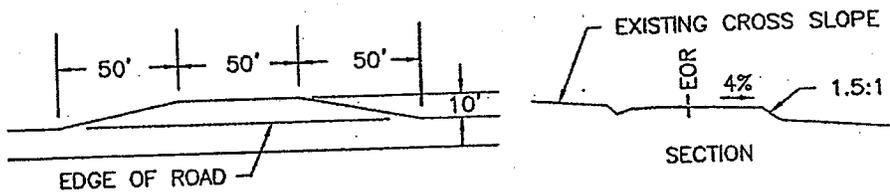
OUTLET/LEAD OFF DITCH SECTION



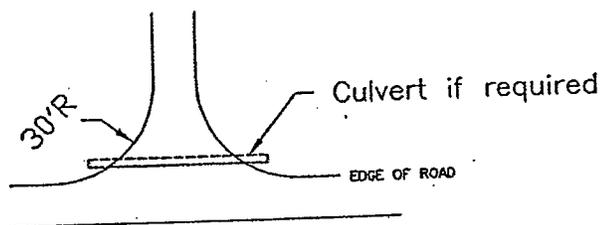
PARKING LOT DETAIL



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 WALNUT 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

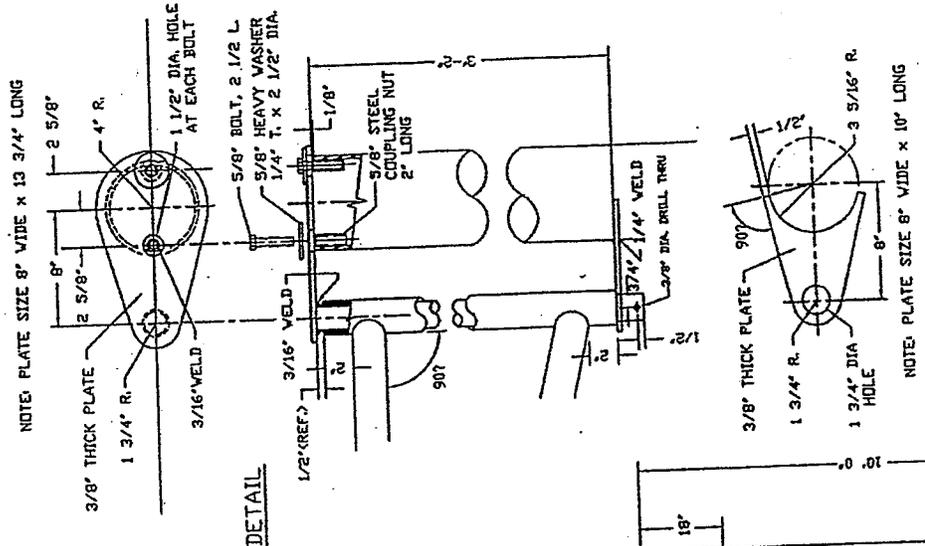
TECHNICAL CONTACT IS L. JEDREK C/O UNITED STATES FOREST SERVICE, WARREN, PA. (814) 723-5150

SIGN CODE

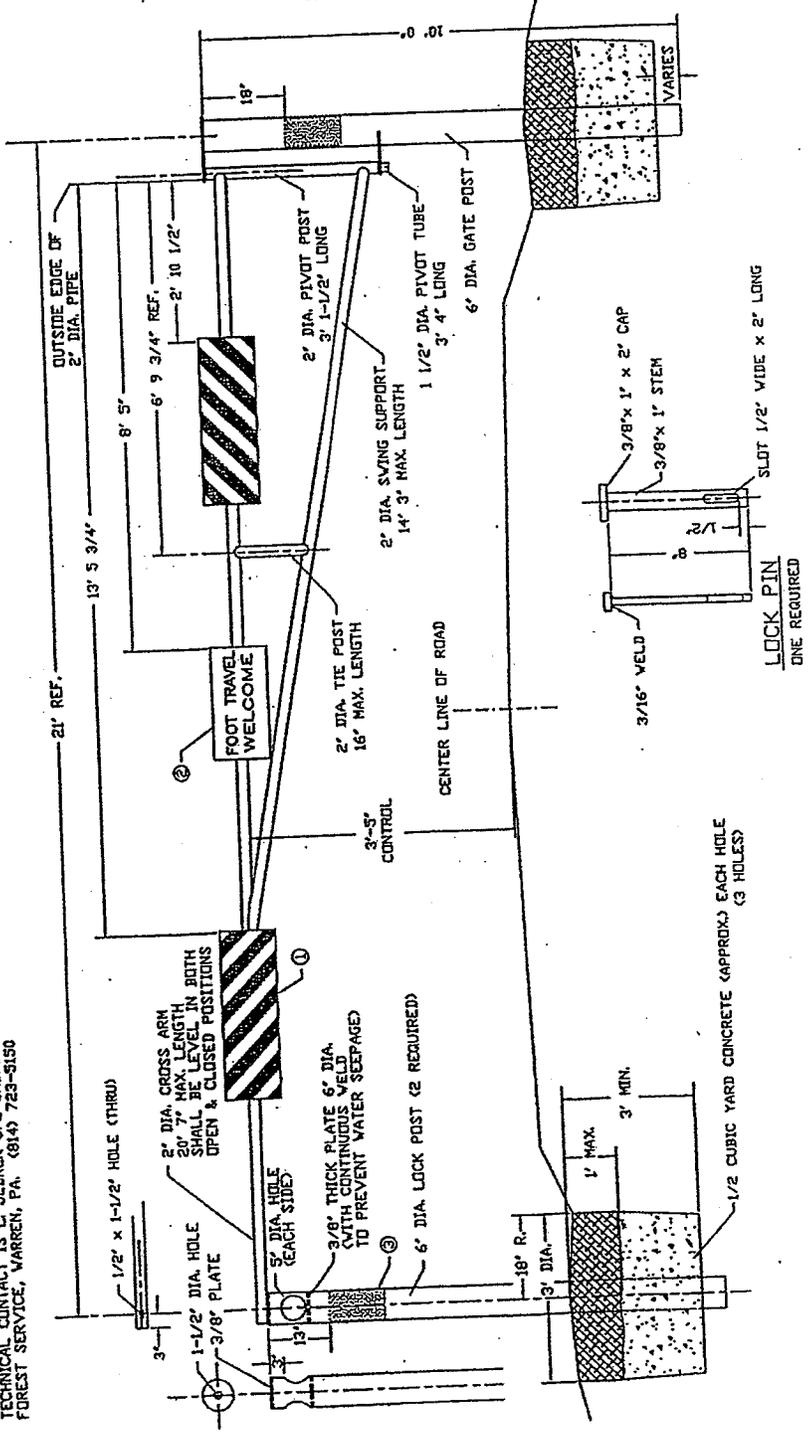
- ① (2) L-R AND (2) R-R TYPE 1 BARRICADE MARKERS
- RED ON WHITE - 12' x 36'
- ② (1) FOOT TRAVEL WELCOME
- ③ (2) TYPE 2 OBJECT MARKERS (OM-2-B)
- YELLOW (REFLECTORIZED) - 6" x 12" USED POSITION LOCK POST
- (2) ON GATE POST AND (2) ON OPEN POSITION LOCK POST FACED TO ONCOMING TRAFFIC
- (3) ON OPEN POSITION LOCK POST FACED BY THE FOREST SERVICE AND INSTALLED BY THE CONTRACTOR.

ESTIMATED QUANTITIES

MATERIAL	QUANTITY (LF)	REMARKS
1-1/2" DIA PIPE (NDH)	3' 4"	PIVOT TUBE
2" DIA. PIPE (NDH)	39' 4"	CROSS ARM ASSEMBLY
6" DIA. PIPE (NDH)	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. BY: JEDREK, L. JEDREK, R. BARKLO - 9/27/09
 DRW. BY: JEDREK, L. JEDREK, R. BARKLO - 12/09
 NOT TO SCALE



LOCK PIN
ONE REQUIRED

1/2 CUBIC YARD CONCRETE (APPROX) EACH HOLE (3 HOLES)

**Pit: FR 279 – Warrant 3120
Marienville Ranger District
Wetmore Township, McKean County
Management Area 3.0**

Pit Development Plan

The current pit size is 1.0 acres. This is an inactive pit that has not been reclaimed. Based on testing, the proposed 2.0 acre expansion area should yield approximately 16,000 cubic yards of stone at an average excavation depth of 5 feet.

A. Initial Pit Development:

1. The proposed excavation area is depicted on the plan map and field delineated with two-stripe flagging tape. All excavation activity shall take place within the established excavation area.
2. Operations shall begin with tree removal within the clearing limits followed by clearing and grubbing.
3. Excavation should begin on the existing open face progress to the proposed excavation limits.
4. As excavation progresses, overburden shall be removed and stockpiled in a designated area or as directed by a Forest Service representative.

B. Operational Requirements and Constraints:

1. Overburden, logs, stumps, or oversized material that is encountered will be stockpiled in a designated area or as directed by a Forest Service representative.
2. Do not stockpile overburden beyond the designated excavation area or at the base of any standing trees.
3. Only one face is to be open and worked at any given time during operations.
4. Do not undermine the roots of boundary trees during development work.
5. Maintain a 10 foot buffer distance between boundary trees and excavation.
6. No disposed equipment, trash, vehicles, pipe, or miscellaneous supplies are to be stored in the pit or the surrounding area.
7. Subsequent changes in this pit development plan due to efficiency, logistics, or unforeseen circumstances may be permitted only with the written approval from a designated Forest Service representative.

C. Timber and Resource Utilization:

1. Large boulders encountered during the excavation process shall be stockpiled in a location designated by the Forest Service representative.
2. Slash will be scattered outside the proposed clearing limits of the roads and pit.
3. Stumps will be stockpiled in a location designated by a Forest Service representative and set upright for use in future reclamation work.

4. Timber will not be cut or pushed over unless it is marked and tallied by the Forest Service.
5. Timber stored within the pit area shall not be damaged or buried and decked in a location designated by the Forest Service.

D. Short Term Pit Reclamation:

1. As each open face is depleted or closed, that area will be reclaimed promptly to a slope of (1.5 : 1) or flatter, using the designated overburden stock pile material.
2. The sloped/reclaimed area will then be promptly seeded, fertilized, and mulched using a non-exotic seed mixture designated by the Forest Service.
3. Seed and mulch during favorable weather conditions or as directed by a Forest Service representative.
4. Depending on the location and safety issues, the Forest Service may request to leave one face open after material excavation has ceased.

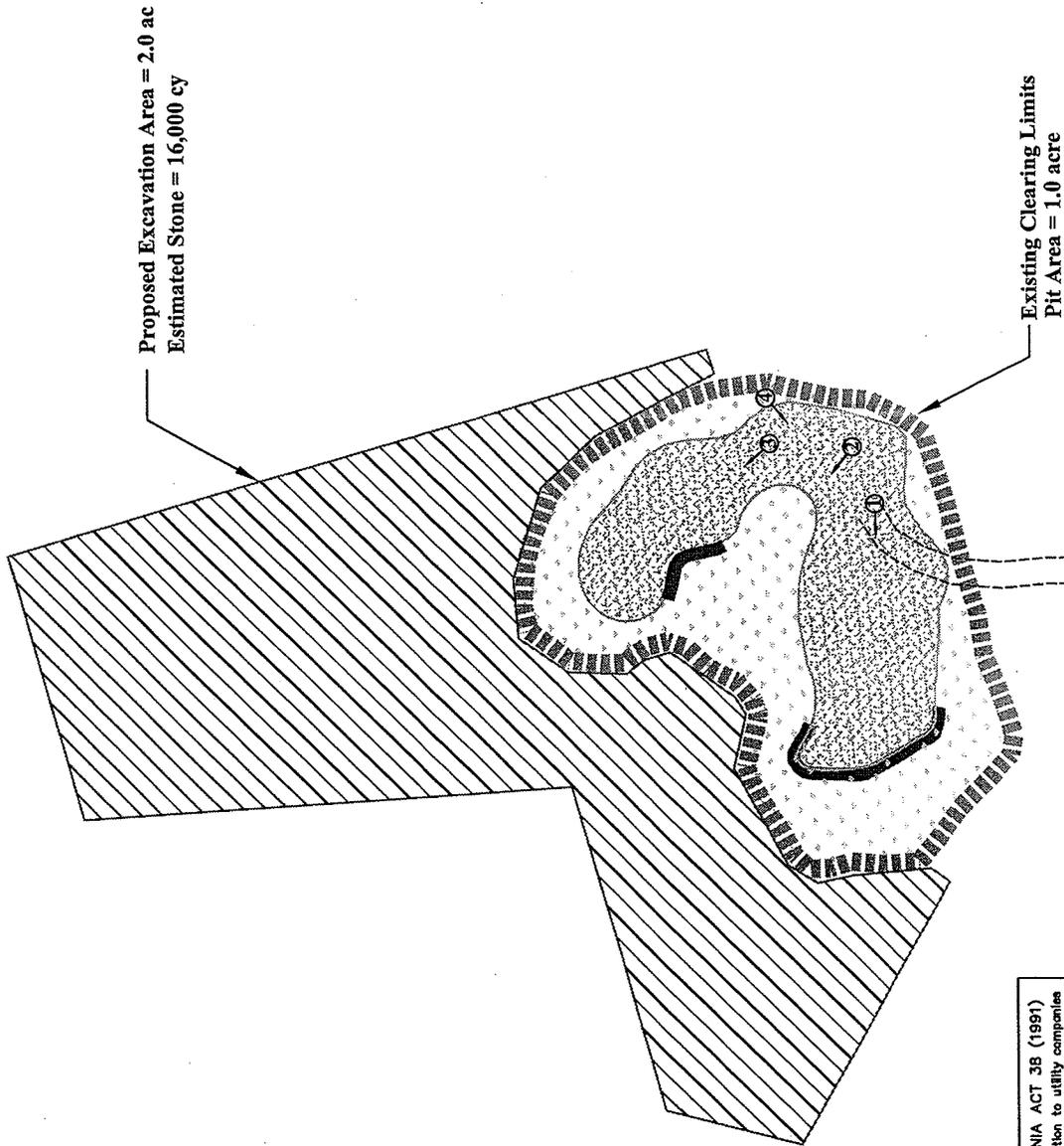
F. Forest Road and Trail Access:

1. The contractor shall monitor the condition of all Forest Service roads or trails used for stone haul during the development process. If rutting, potholes deeper than 3 inches, crushing or blocking of culverts occurs, the contractor must cease all hauling operations and immediately notify a Forest Service representative or the Forest District Ranger for assessment of damage and necessary repairs needed.
2. After the development work is complete the contractor is required to restore all access roads to the previous condition.

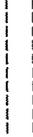
Pit Development Plan - FR 279 Pit

North End NEPA Project

Marienville Ranger District, Wetmore Township, McKean County
 Management Area 3.0 - Warrant 3120



LEGEND

-  Clearing Limits
-  Pit Access Road
-  Open Face
-  Pit Floor
-  Excavation Area
-  Vegetated Surface
-  Photo Locations

SCALE



Date: 12/15/2008

U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE



R9

ALLEGHENY NATIONAL FOREST

PENNSYLVANIA ACT 38 (1981)
 requires notification to utility companies
 prior to any digging, drilling, boring or
 excavating. Contractor will:
 PA ONE-CALL
 1 (800) 242-1776
 prior to start of work.



It is the Contractor's responsibility to
 identify the physical locations of all utility
 lines prior to the start of construction.