

**Project #001
Coon Run SC**

**DIVISION 100
GENERAL SPECIFICATIONS FOR SITE PREPARATION**

100 - SCOPE OF CONTRACT

The objective of this contract is to have site preparation (felling work using approved equipment such as chainsaws, brush cutters or other hand tools) and any resulting required slash disposal work accomplished on 326 acres of the Bradford Ranger Districts, Allegheny National Forest. The contractor shall furnish tools, labor, equipment, and equipment, unless otherwise provided herein.

110- LOCATION

The work area is located on the Allegheny National Forest, Bradford Ranger District. Refer to the Contract Area Map for exact locations.

Unit ID	Payment Unit	Acres	General Location (Warrant/Lot/Twnshp/Co)	Rd Access	Map Page
452027	2	44	Lot 4/Hamilton/Mckean	FR 267	1
452012	3	39	Lot 4/Hamilton/Mckean	FR 177	1
452028	4	18	Warrant 5575/Hamilton/Mckean	FR177B	1
452029	4	7	Warrant 5575/Hamilton/Mckean	FR177B	1
491027	5	25	Lot 64/Mead/Warren	FR 140	2
491050	6	23	Lot 69/Mead/Warren	FR 140A	2
402014	NA	35	Lot 81/Corydon/Mckean	FR 247	3
298047	NA	21	Lot 689/Cherry Grove/Warren	FR 256	8
298025	NA	16	Lot 689/Cherry Grove/Warren	FR 256	8
300018	NA	20	Lot 404/Sheffield/Warren	FR256	8
463038	NA	9	Warrant 3404/Lafayette/Mckean	FR 504	7
480018	NA	8	Warrant 3087/Wetmore/Mckean	FR456	7
235019	NA	21	Lot 99/Mead/Warren	FR 365	2
454022	NA	40	Lot 9/Corydon/Mckean	FR 267	1

120 – ACCESS

Project areas may be reached by public road system & Forest Roads that are accessible by standard pickup during the normal working season. The Contractor is responsible for any damage caused by their operations. Some project areas may be on a gated road and require signing out a key with the Contracting Officer's Representative (COR).

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130 – SAFETY

It is the contractor's responsibility to ensure that the work environment is safe for themselves as well as their employees. If the contractor feels that a requirement of this contract would place them or their employees in an unsafe environment, then work should stop on that area of work and the contractor should contact the COR immediately. Work on other areas of the contract that the contractor does not view as unsafe should continue.

The contractor is required to follow all applicable OSHA standards while working on the job site. In addition, the successful contractor and employees are required to wear and use the following personal protective safety equipment/clothing to include a hardhat, leg and foot protection, ear protection, eye protection and hand protection while working the project area.

140 – NOTIFICATION

The Contractor is required to keep the COR currently informed of their work schedule and physical location of their work force to permit ready location and timely inspection of accomplished work.

The contractor shall also notify the contracting officer at least weekly of the progress being attained on this project. This notification can be either e-mail, oral or written.

DIVISION 200 - TECHNICAL SPECIFICATIONS

200 – SPECIES REQUIRING TREATMENT

201- Desirable Species: The following species are to be protected: American chestnut, aspen, basswood, black cherry, black walnut, cucumber, eastern hemlock, eastern white pine, red maple, sugar maple, white ash, yellow poplar, all hickory species and all oak species. Care shall be taken to not damage or cut desirable species.

202- Competing Vegetation

- 1) American Beech: All live beech taller than 1 foot in height and less than **6.0 inches** in diameter at a point 4.5 feet (breast height) above the ground shall be felled and completely severed from the stump.
- 2) Birch: All live birch taller than 1 foot in height and less than 6.0 inches in diameter at a point 4.5 feet (breast height) above the ground shall be felled and completely severed from the stump.
- 3) Pin (Fire) Cherry: All live pin cherry of any diameter, taller than 1 foot in height shall be felled and completely severed from the stump.

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4) Striped Maple: All live striped maple of any diameter, taller than 1 foot in height shall be felled and completely severed from the stump.

210 - STUMP HEIGHTS

Stump heights shall be a maximum of 6 inches, unless designated in writing by the COR. Stump sprouts (multiple stems) will be cut as close to the ground as possible. Stumps will be cut in a manner which results in a flat (parallel with the ground) surface. **Angular stump cuts will not be allowed.**

220 - BOUNDARY TREES

Boundary trees are not to be felled unless specified by the COR. Project area boundary trees are usually marked with a white or orange painted 3 stripe on the trees. Flagging will also be utilized to indicate the boundary of the project area. The color of flagging will be designated by the COR. Trees attached to fences are not to be felled.

230 – SPECIAL REQUIREMENTS

231 - Other trees marked with marking paint, unit boundary flagging, enclosed in tree shelters, or attached to fencing shall not be felled unless otherwise indicated by the COR.

232- Only live trees will be cut; all snags encountered will be retained unless they are a hazard to contractor safety.

233 - Lodged (hung up trees) shall be pulled or cut down to meet slash disposal requirements as discussed in section 240, 241 & 242.

240 - SLASH DISPOSAL

All stands will be treated without lopping unless indicated in the project description. Felled slash shall be removed 15 feet from recreational trail and private land. Felled slash shall be removed from pipelines, power lines, well openings, ditch lines, maintenance trails, fence maintenance trails, fences, stream courses, seep, forest roads, oil/gas roads and historic railroad grades unless otherwise approved by the COR.

241 – Slash disposal without lopping –

Slash shall be placed on or near the ground surface, so that it will not lean against or be suspended by an uncut tree or deer fencing. Do not pile cut trees or brush on top of desirable trees.

All preferred species trees will be released from all slash so they are standing straight up on their own.

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242 – Slash disposal with Lopping –

All slash will be lopped / cut down to three feet from the ground surface.

All preferred species trees will be released from all slash so they are standing straight up on their own.

No slash shall be left hanging in trees and will be laid horizontal to the ground to within three feet of the ground.

250 - PROTECTION, USE, AND MAINTENANCE OF IMPROVEMENTS

Cut trees shall be felled away from pipelines, oil, gas and mineral development, wells, power lines, trails, fences, survey monuments, roads, streams, and any other improvements designated by the COR. If such improvements are damaged by Contractor's Operations, Contractor shall restore them to conditions existing prior to damage.

270 – RESERVE AREAS

Reserve Areas are areas within the stands that are uncut. These areas are generally designated with three-stripped green or white paint around the boundary. No trees shall be cut within these reserve areas unless otherwise indicated on the task order. If a reserve area is designated to be cut, then only birch and striped maple are to be felled and severed completely from the stump in those areas.

290 - PROGRESSION OF WORK & PROJECT TIMELINES

No site prep. cutting will occur in any year between 03/30 to 06/30.

- 1) The units listed below shall be cut concurrently as timber is being harvested or up to 6 months prior to timber harvest:

452027 (PU#2), 452012 (PU#3), 452028 (PU#4), 452029 (PU#4), 491027 (PU#5), 491050 (PU#6)

- 2) The units listed below shall be completed by 09/30/2013:

402014, 298047, 298025, 300018, 454022

- 3) The units listed below shall be completed by 09/30/2014:

463038, 480018, 235019

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A contractor will only work on one Project Area at a time unless they have two complete crews then they can work on a second Project Area after informing COR. Work has to be completed before leaving each Project Area and going to the next Item/ Area. Items/ Areas can be identified, by COR, as priority and must be completed first in order to meet Forest objectives.

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SECTION E--INSPECTION AND ACCEPTANCE

INSPECTION OF SERVICES - FIXED PRICE 52.246-4 (AUG 1996)

(a) Definitions. "Services", as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.

(b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during the contract performance and for as long afterwards as the contract requests.

(c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all times and places during the term of this contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.

(d) If the Government performs inspections or tests on the premises of the Contractor or a subcontractor, the Contractor shall furnish, and shall require subcontractors to furnish, without additional charge, all reasonable facilities and assistance for the safe and convenient performance of these duties.

(e) If any of these services do not conform to contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, at no increase in contract amount. When defects in services cannot be corrected by re-performance, the Government may:

(1) Require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and

(2) Reduce the contract price to reflect the reduced value of services performed.

(f) If the Contractor fails to promptly perform the services again or to take the necessary action to ensure future performance in conformity with contract requirements, the Government may:

(1) Government that is directly related to the performance of such service or

(2) Terminate the contract for default.

Project #001 Coon Run SC

QUALITY ASSURANCE PLAN

Areas to be Inspected

In accordance with the Inspection Clause the Government is able to inspect any work the Contractor performs, and the Contractor shall be required to rework any areas that are not in conformance to the requirements of this contract. All work must meet the acceptance standards.

The Government will conduct compliance inspections on acres the Contractor has reported as completed to specifications. Plots to check compliance will be randomly placed in the areas to be inspected by the Government inspector.

Inspection Procedures

The COR/Inspector will inspect each of the project acres, in accordance with specification Division 200.

Definitions

Desirables: tree species that should not be felled as described in Sections 201-Desireable Species, 220-Boundary Trees, and 231-Other Marked Trees.

Undesirables: tree species as indicated in specifications section 202-Competing Vegetation, as well as stumps indicated in specification section 210-Stump Heights.

Inspection Criteria

Each plot will be examined to record findings on the following items:

- 1) Total number of Desirable trees that should remain.
- 2) Number of Desirable trees that were cut.
- 3) Number of Undesirable trees remaining.
- 4) Total percentage of Desirable trees cut.

Total Quality Percentage and Total Percentage of Desirables Cut shall be calculated for the sub-item as follows:

- 1) Quality Percentage Calculation:

$$1.00 - \frac{((\# \text{ of cut desirables}) + (\# \text{ of remaining undesirables}))}{(\text{Total } \# \text{ of desirable trees that should remain})} \times 100 = \text{Quality } \%$$

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2) Total % of Desirables Cut:

(Total # of cut desirables)

(Tot. # desirables to remain) = % of Desirables Cut

Overall Inspection Calculation

The minimum acceptable Quality Inspection percentage is 80% per area.

**Project #002
Coon Run SC**

**DIVISION 100
GENERAL SPECIFICATIONS FOR SITE PREPARATION**

100 - SCOPE OF CONTRACT

The objective of this contract is to have site preparation (felling work using approved equipment such as chainsaws, brush cutters or other hand tools) and any resulting required slash disposal work accomplished on 80 acres of the Bradford Ranger Districts, Allegheny National Forest. The contractor shall furnish tools, labor, equipment, and equipment, unless otherwise provided herein.

110- LOCATION

The work area is located on the Allegheny National Forest, Bradford Ranger District. Refer to the Contract Area Map for exact locations.

Unit ID	Payment Unit	Acres	General Location Warrant/Lot/Twnshp/Co	Rd Access	Map Page
216034	NA	40	Lot 48/Mead/Warren	FR 204A	2
488001	NA	40	Lot 47/Mead/Warren	FR 259	2

120 – ACCESS

Project areas may be reached by public road system & Forest Roads that are accessible by standard pickup during the normal working season. The Contractor is responsible for any damage caused by their operations. Some project areas may be on a gated road and require signing out a key with the Contracting Officer's Representative (COR).

130 – SAFETY

It is the contractor's responsibility to ensure that the work environment is safe for themselves as well as their employees. If the contractor feels that a requirement of this contract would place them or their employees in an unsafe environment, then work should stop on that area of work and the contractor should contact the COR immediately. Work on other areas of the contract that the contractor does not view as unsafe should continue.

The contractor is required to follow all applicable OSHA standards while working on the job site. In addition, the successful contractor and employees are required to wear and use the following personal protective safety equipment/clothing to include a hardhat, leg and foot protection, ear protection, eye protection and hand protection while working the project area.

Project #002 Coon Run SC

140 – NOTIFICATION

The Contractor is required to keep the COR currently informed of their work schedule and physical location of their work force to permit ready location and timely inspection of accomplished work.

The contractor shall also notify the contracting officer at least weekly of the progress being attained on this project. This notification can be either e-mail, oral or written.

DIVISION 200 - TECHNICAL SPECIFICATIONS

200 – SPECIES REQUIRING TREATMENT

201- Desirable Species: The following species are to be protected: American chestnut, aspen, basswood, black cherry, black walnut, cucumber, eastern hemlock, eastern white pine, sugar maple, white ash, yellow poplar, all hickory species and all oak species. Care shall be taken to not damage or cut desirable species.

202- Competing Vegetation

- 1) American Beech: All live beech taller than **1 foot in height and less than 10.0 inches** in diameter at a point 4.5 feet (breast height) above the ground shall be felled and completely severed from the stump.
- 2) Birch: All live birch taller than 1 foot in height and less than **8.0** inches in diameter at a point 4.5 feet (breast height) above the ground shall be felled and completely severed from the stump.
- 3) Pin (Fire) Cherry: All live pin cherry of any diameter, taller than 1 foot in height shall be felled and completely severed from the stump.
- 4) Striped Maple: All live striped maple of any diameter, taller than 1 foot in height shall be felled and completely severed from the stump.
- 5) Red maple: **All red maple of any diameter between 1.0 to 10.0 inches in diameter at breast height.**

210 - STUMP HEIGHTS

Stump heights shall be a maximum of 6 inches, unless designated in writing by the COR. Stump sprouts (multiple stems) will be cut as close to the ground as possible. Stumps will be cut in a manner which results in a flat (parallel with the ground) surface. **Angular stump cuts will not be allowed.**

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220 - BOUNDARY TREES

Boundary trees are not to be felled unless specified by the COR. Project area boundary trees are usually marked with a white or orange painted 3 stripe on the trees. Flagging will also be utilized to indicate the boundary of the project area. The color of flagging will be designated by the COR. Trees attached to fences are not to be felled.

230 – SPECIAL REQUIREMENTS

231 - Other trees marked with marking paint, unit boundary flagging, enclosed in tree shelters, or attached to fencing shall not be felled unless otherwise indicated by the COR.

232- Only live trees will be cut; all snags encountered will be retained unless they are a hazard to contractor safety.

233 - Lodged (hung up trees) shall be pulled or cut down to meet slash disposal requirements as discussed in section 240, 241 & 242.

240 - SLASH DISPOSAL

All stands will be treated without lopping unless indicated in the project description. Felled slash shall be removed 15 feet from recreational trail and private land. Felled slash shall be removed from pipelines, power lines, well openings, ditch lines, maintenance trails, fence maintenance trails, fences, stream courses, seep, forest roads, oil/gas roads and historic railroad grades unless otherwise approved by the COR.

241 – Slash disposal without lopping –

Slash shall be placed on or near the ground surface, so that it will not lean against or be suspended by an uncut tree or deer fencing. Do not pile cut trees or brush on top of desirable trees.

All preferred species trees will be released from all slash so they are standing straight up on their own.

242 – Slash disposal with lopping –

All slash will be lopped / cut down to three feet from the ground surface.

All preferred species trees will be released from all slash so they are standing straight up on their own.

No slash shall be left hanging in trees and will be laid horizontal to the ground to within three feet of the ground.

**Project #002
Coon Run SC**

250 - PROTECTION, USE, AND MAINTENANCE OF IMPROVEMENTS

Cut trees shall be felled away from pipelines, oil, gas and mineral development, wells, power lines, trails, fences, survey monuments, roads, streams, and any other improvements designated by the COR. If such improvements are damaged by Contractor's Operations, Contractor shall restore them to conditions existing prior to damage.

270 – RESERVE AREAS

Reserve Areas are areas within the stands that are uncut. These areas are generally designated with three-striped green or white paint around the boundary. No trees shall be cut within these reserve areas unless otherwise indicated on the task order. If a reserve area is designated to be cut, then only birch and striped maple are to be felled and severed completely from the stump in those areas.

290 - PROGRESSION OF WORK

No site prep. cutting will occur in any year between 03/30 to 06/30.

- 1) The units listed below shall be completed by 03/30/2014:

216034, 488001

A contractor will only work on one Project Area at a time unless they have two complete crews then they can work on a second Project Area after informing COR. Work has to be completed before leaving each Project Area and going to the next Item/ Area. Items/ Areas can be identified, by COR, as priority and must be completed first in order to meet Forest objectives.

Project #002
Coon Run SC

SECTION E--INSPECTION AND ACCEPTANCE

INSPECTION OF SERVICES - FIXED PRICE 52.246-4 (AUG 1996)

(a) Definitions. "Services", as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.

(b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during the contract performance and for as long afterwards as the contract requests.

(c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all times and places during the term of this contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.

(d) If the Government performs inspections or tests on the premises of the Contractor or a subcontractor, the Contractor shall furnish, and shall require subcontractors to furnish, without additional charge, all reasonable facilities and assistance for the safe and convenient performance of these duties.

(e) If any of these services do not conform to contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, at no increase in contract amount. When defects in services cannot be corrected by re-performance, the Government may:

(1) Require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and

(2) Reduce the contract price to reflect the reduced value of services performed.

(f) If the Contractor fails to promptly perform the services again or to take the necessary action to ensure future performance in conformity with contract requirements, the Government may:

(1) Government that is directly related to the performance of such service or

(2) Terminate the contract for default.

Project #002 Coon Run SC

QUALITY ASSURANCE PLAN

Areas to be Inspected

In accordance with the Inspection Clause the Government is able to inspect any work the Contractor performs, and the Contractor shall be required to rework any areas that are not in conformance to the requirements of this contract. All work must meet the acceptance standards.

The Government will conduct compliance inspections on acres the Contractor has reported as completed to specifications. Plots to check compliance will be randomly placed in the areas to be inspected by the Government inspector.

Inspection Procedures

The COR/Inspector will inspect each of the project acres, in accordance with specification Division 200.

Definitions

Desirables: tree species that should not be felled as described in Sections 201-Desireable Species, 220-Boundary Trees, and 231-Other Marked Trees.

Undesirables: tree species as indicated in specifications section 202-Competing Vegetation, as well as stumps indicated in specification section 210-Stump Heights.

Inspection Criteria

Each plot will be examined to record findings on the following items:

- 1) Total number of Desirable trees that should remain.
- 2) Number of Desirable trees that were cut.
- 3) Number of Undesirable trees remaining.
- 4) Total percentage of Desirable trees cut.

Total Quality Percentage and Total Percentage of Desirables Cut shall be calculated for the sub-item as follows:

- 1) Quality Percentage Calculation:

$$1.00 - \frac{((\# \text{ of cut desirables}) + (\# \text{ of remaining undesirables}))}{(\text{Total } \# \text{ of desirable trees that should remain})} \times 100 = \text{Quality } \%$$

Project #002
Coon Run SC

2) Total % of Desirables Cut:

(Total # of cut desirables)

(Tot. # desirables to remain) = % of Desirables Cut

Overall Inspection Calculation

The minimum acceptable Quality Inspection percentage is 80% per area.

**Project #003
Coon Run SC**

**DIVISION 100
GENERAL SPECIFICATIONS FOR SITE PREPARATION**

100 - SCOPE OF CONTRACT

The objective of this contract is to have site preparation (felling work using approved equipment such as chainsaws, brush cutters or other hand tools) and any resulting required slash disposal work accomplished on 92 acres of the Bradford Ranger Districts, Allegheny National Forest. The contractor shall furnish tools, labor, equipment, and equipment, unless otherwise provided herein.

110- LOCATION

The work area is located on the Allegheny National Forest, Bradford Ranger District. Refer to the Contract Area Map for exact locations.

Unit ID	Payment Unit	Acres	General Location Warrant/Lot/Twnshp/Co	Rd Access	Map Page
455009	NA	37	Lot 6/Corydon/Mckean	FR 268	5
455000	NA	55	Warrant 5572/Hamilton/Mckean	FR 268Aa	5

120 – ACCESS

Project areas may be reached by public road system & Forest Roads that are accessible by standard pickup during the normal working season. The Contractor is responsible for any damage caused by their operations. Some project areas may be on a gated road and require signing out a key with the Contracting Officer's Representative (COR).

130 – SAFETY

It is the contractor's responsibility to ensure that the work environment is safe for themselves as well as their employees. If the contractor feels that a requirement of this contract would place them or their employees in an unsafe environment, then work should stop on that area of work and the contractor should contact the COR immediately. Work on other areas of the contract that the contractor does not view as unsafe should continue.

The contractor is required to follow all applicable OSHA standards while working on the job site. In addition, the successful contractor and employees are required to wear and use the following personal protective safety equipment/clothing to include a hardhat, leg and foot protection, ear protection, eye protection and hand protection while working the project area.

Project #003 Coon Run SC

140 – NOTIFICATION

The Contractor is required to keep the COR currently informed of their work schedule and physical location of their work force to permit ready location and timely inspection of accomplished work.

The contractor shall also notify the contracting officer at least weekly of the progress being attained on this project. This notification can be either e-mail, oral or written.

DIVISION 200 - TECHNICAL SPECIFICATIONS

200 – SPECIES REQUIRING TREATMENT

201- Desirable Species: The following species are to be protected: American chestnut, aspen, basswood, black cherry, black walnut, cucumber, eastern hemlock, eastern white pine, red maple, sugar maple, white ash, yellow poplar, all hickory species and all oak species. Care shall be taken to not damage or cut desirable species.

202- Competing Vegetation

- 1) American Beech: All live beech taller than **5 feet in height and less than 10.0 inches** in diameter at a point 4.5 feet (breast height) above the ground shall be felled and completely severed from the stump.
- 2) Birch: All live birch taller than **5 feet in height and less than 6.0 inches in** diameter at a point 4.5 feet (breast height) above the ground shall be felled and completely severed from the stump.
- 3) Pin (Fire) Cherry: All live pin cherry of any diameter, **taller than 5 feet in height** shall be felled and completely severed from the stump.
- 4) Striped Maple: All live striped maple of any diameter, **taller than 5 feet in height** shall be felled and completely severed from the stump.

210 - STUMP HEIGHTS

Stump heights shall be a maximum of 6 inches, unless designated in writing by the COR. Stump sprouts (multiple stems) will be cut as close to the ground as possible. Stumps will be cut in a manner which results in a flat (parallel with the ground) surface. **Angular stump cuts will not be allowed.**

Project #003 Coon Run SC

220 - BOUNDARY TREES

Boundary trees are not to be felled unless specified by the COR. Project area boundary trees are usually marked with a white or orange painted 3 stripe on the trees. Flagging will also be utilized to indicate the boundary of the project area. The color of flagging will be designated by the COR. Trees attached to fences are not to be felled.

230 – SPECIAL REQUIREMENTS

231 - Other trees marked with marking paint, unit boundary flagging, enclosed in tree shelters, or attached to fencing shall not be felled unless otherwise indicated by the COR.

232- Only live trees will be cut; all snags encountered will be retained unless they are a hazard to contractor safety.

233 - Lodged (hung up trees) shall be pulled or cut down to meet slash disposal requirements as discussed in section 240, 241 & 242.

240 - SLASH DISPOSAL

All stands will be treated without lopping unless indicated in the project description. Felled slash shall be removed 15 feet from recreational trail and private land. Felled slash shall be removed from pipelines, power lines, well openings, ditch lines, maintenance trails, fence maintenance trails, fences, stream courses, seep, forest roads, oil/gas roads and historic railroad grades unless otherwise approved by the COR.

241 – Slash disposal without lopping –

Slash shall be placed on or near the ground surface, so that it will not lean against or be suspended by an uncut tree or deer fencing. Do not pile cut trees or brush on top of desirable trees.

All preferred species trees will be released from all slash so they are standing straight up on their own.

242 – Slash disposal with Lopping –

All slash will be lopped / cut down to three feet from the ground surface.

All preferred species trees will be released from all slash so they are standing straight up on their own.

No slash shall be left hanging in trees and will be laid horizontal to the ground to within three feet of the ground.

Project #003 Coon Run SC

250 - PROTECTION, USE, AND MAINTENANCE OF IMPROVEMENTS

Cut trees shall be felled away from pipelines, oil, gas and mineral development, wells, power lines, trails, fences, survey monuments, roads, streams, and any other improvements designated by the COR. If such improvements are damaged by Contractor's Operations, Contractor shall restore them to conditions existing prior to damage.

270 – RESERVE AREAS

Reserve Areas are areas within the stands that are uncut. These areas are generally designated with three-striped green or white paint around the boundary. No trees shall be cut within these reserve areas unless otherwise indicated on the task order. If a reserve area is designated to be cut, then only birch and striped maple are to be felled and severed completely from the stump in those areas.

290 - PROGRESSION OF WORK

No site prep. cutting will occur in any year between 03/30 to 06/30.

- 1) The units listed below shall be completed by 09/30/2014:

455009, 455000

A contractor will only work on one Project Area at a time unless they have two complete crews then they can work on a second Project Area after informing COR. Work has to be completed before leaving each Project Area and going to the next Item/ Area. Items/ Areas can be identified, by COR, as priority and must be completed first in order to meet Forest objectives.

Project #003
Coon Run SC

SECTION E--INSPECTION AND ACCEPTANCE

INSPECTION OF SERVICES - FIXED PRICE 52.246-4 (AUG 1996)

(a) Definitions. "Services", as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.

(b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during the contract performance and for as long afterwards as the contract requests.

(c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all times and places during the term of this contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.

(d) If the Government performs inspections or tests on the premises of the Contractor or a subcontractor, the Contractor shall furnish, and shall require subcontractors to furnish, without additional charge, all reasonable facilities and assistance for the safe and convenient performance of these duties.

(e) If any of these services do not conform to contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, at no increase in contract amount. When defects in services cannot be corrected by re-performance, the Government may:

(1) Require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and

(2) Reduce the contract price to reflect the reduced value of services performed.

(f) If the Contractor fails to promptly perform the services again or to take the necessary action to ensure future performance in conformity with contract requirements, the Government may:

(1) Government that is directly related to the performance of such service or

(2) Terminate the contract for default.

Project #003 Coon Run SC

QUALITY ASSURANCE PLAN

Areas to be Inspected

In accordance with the Inspection Clause the Government is able to inspect any work the Contractor performs, and the Contractor shall be required to rework any areas that are not in conformance to the requirements of this contract. All work must meet the acceptance standards.

The Government will conduct compliance inspections on acres the Contractor has reported as completed to specifications. Plots to check compliance will be randomly placed in the areas to be inspected by the Government inspector.

Inspection Procedures

The COR/Inspector will inspect each of the project acres, in accordance with specification Division 200.

Definitions

Desirables: tree species that should not be felled as described in Sections 201-Desireable Species, 220-Boundary Trees, and 231-Other Marked Trees.

Undesirables: tree species as indicated in specifications section 202-Competing Vegetation, as well as stumps indicated in specification section 210-Stump Heights.

Inspection Criteria

Each plot will be examined to record findings on the following items:

- 1) Total number of Desirable trees that should remain.
- 2) Number of Desirable trees that were cut.
- 3) Number of Undesirable trees remaining.
- 4) Total percentage of Desirable trees cut.

Total Quality Percentage and Total Percentage of Desirables Cut shall be calculated for the sub-item as follows:

- 1) Quality Percentage Calculation:

$$1.00 - \frac{((\# \text{ of cut desirables}) + (\# \text{ of remaining undesirables}))}{(\text{Total } \# \text{ of desirable trees that should remain})} \times 100 = \text{Quality } \%$$

Project #003
Coon Run SC

2) Total % of Desirables Cut:

(Total # of cut desirables)

(Tot. # desirables to remain) = % of Desirables Cut

Overall Inspection Calculation

The minimum acceptable Quality Inspection percentage is 80% per area.

Project #004 Coon Run SC

Division 100 - General Specifications

110 - Scope of Contract

It is the intent of this contract to dismantle, remove and dispose of 20,275 feet of woven wire fence. The fences are in wooded areas of the Bradford Ranger District of the Allegheny National Forest. All areas have walk-through gates to remove on each fence. The contractor is responsible for furnishing all supervision, labor, equipment, tools, and incidentals necessary to complete the work.

120 – Location, Description of Project Areas and Identification of Project Area

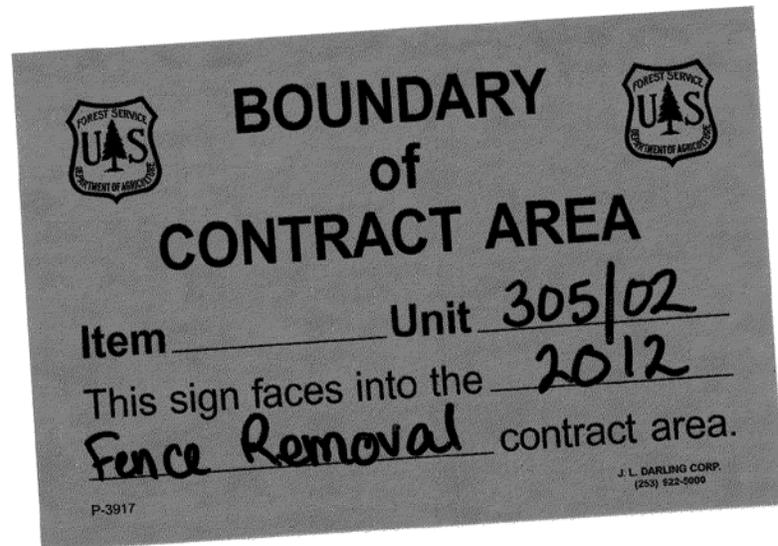
The work area is located on the Allegheny National Forest, Bradford Ranger District. Refer to the Contract Area Map for exact locations.

Unit ID	Payment Unit	Feet	General Location Warrant/Lot/Twnshp/Co	Rd Access	Map Page
443053	NA	2217	Warrant 3731/Corydon/Mckean	FR 627	4
443054	NA	2746	Warrant 3714/Corydon/Mckean	FR 627	4
434045	NA	2218	Warrant 3732/Corydon/Mckean	SR 321	4
434046	NA	2534	Warrant 3732/Corydon/Mckean	SR 321	4
458009	NA	4593	Lot 130/Hamilton/Mckean	FR 142	6
488026	NA	2535	Lot 42/Mead/Warren	FR 259	2
299001	NA	3432	Lot 361/Sheffield/Warren	FR 117	8

Identification of project area- All project areas will be identified with a pink tag, see example below. The contractor or field representative is required to read pink tag, **ensure that he/she is at the correct location according to the pink tag's information and initial it prior to starting any work on the project area.**

**Project #004
Coon Run SC**

Ex. of pink tag that needs to be initialed prior to start of project work.



130- Contractor Representative

Before work starts, the Contractor shall designate a person knowledgeable of contract requirements to act in their absence. The Contractor or authorized representative shall be at the job site whenever work is in progress. In the absence of the Contractor, the authorized representative may receive instructions from the Contracting Officer.

140 - Protection of Existing Structures

The Contractor is required to protect existing improvements such as pipelines, powerlines, buildings, roads/traffic gates etc. which may be located in the project area. The Contractor shall be required to repair or replace such improvements if damaged as a result of their operations.

150 – Notification

The Contractor is required to keep the Contracting Officer currently informed of their work schedule and physical location of their work force to permit ready location and timely inspection of accomplished work. The contractor shall also notify the contracting officer at least weekly of the progress being attained on this project. This notification can be either oral or written.

Project #004 Coon Run SC

Division 200 - Technical Specifications

210 - Project Description

This project consists of taking down and disposing of seven foot high woven wire deer fence. The fencing is comprised of two 4' rolls of fencing stacked on top of each other. The bottom foot of the fencing is buried around perimeter of the project area and is to be dug up. Metal or wood posts, 2x 4 lumber, gates, miscellaneous wire, and fasteners are also included for removal.

211 - Fence Material - All fence wire, hog rings and other wire must be removed from the site and National Forest land and disposed of properly.

212 - Steel Posts - Steel posts must be pulled and removed from the site and National Forest land and disposed of at contractor's expense.

213 - Fasteners - All nails and fence staples must be completely removed from live trees.

Sawlog Sized Trees (greater than 9" dbh) - Remove all nails, staples, and wire. Deeply embedded wire shall be cut flush with the trunk of the tree and the tree flagged to indicate remaining metal.

Pole Sized Trees (less than 9" dbh) - If nails or embedded metal cannot be pulled free, then the tree may be felled (or girdled if not along a road or recreational trail). All trees felled will have a stump height of 6 inches or less on the up hill side of the stump. All stumps will be cut parallel to the ground; **no angular cuts on stumps will be accepted.**

Red painted or blazed Forest Service property boundary trees with ingrown fence will not be cut down.

214 – Wooden boards and posts - All 2"x4" boards shall be removed from trees, and all 4"x4" or larger posts shall be pulled. All wooden materials shall be removed from the site and National Forest land.

215 – Gates – Walkthrough (man) gates will be removed from each site, unless otherwise designated by the COR.

216- Brush Cutting – All brush cut to remove the fence will be completely severed at a height no greater than 6 inches above the ground on the uphill side of the tree. All stumps will be cut parallel to the ground; no angular stumps are permitted.

Project #004 Coon Run SC

220 - Vehicle Operation

ATV's (All-Terrain Vehicles) may be operated around the perimeter of the fence to accomplish removal only. Other equipment can be used, but must be authorized by COR prior to use. No ATV/equipment travel through the interior of fenced area is permitted. Not all fences can be traversed along their entire perimeter. If at any time the Forest Service inspections indicate that soil damage has occurred due to the use of ATV's, such damage shall be repaired by the Contractor at their expense.

225 – Project Area Clean Up

The contractor is responsible for proper disposal of fencing materials as indicated above. Any and all additional trash and debris generated in the performance of this contract shall be removed from Forest Service land.

230 – Project Area Materials Staging

Staging areas large enough for gathering, sorting, piling, etc. of removed materials prior to removal from Forest Service land are permitted in each project area. The contractor is responsible to notify the Forest Service in writing as to the desired location for each staging area. Location will be mutually agreed upon prior to start of removal operations.

235 – Project Area Release

Only three (3) awarded project areas shall be operated at one time, unless otherwise agreed in writing by the Forest Service. Unless there is agreement in writing to postpone specific requirements, all contractual requirements on a project area shall be accepted by Forest Service prior to working on additional project areas.

240 – Work Plan and Schedule

Prior to the start of work, the Contractor shall prepare a work plan and schedule that demonstrates when work will be completed within the performance period described in Section F – Deliveries of Performance. The Contractor shall advise the Contracting Officer or COR of any periods that the Contractor will not be working as outlined in the work plan. The Contractor may update the work plan as needed. Work Plans shall be accepted by the Contracting Officer before work may commence.

245 - Safety

It is the Contractor's responsibility to ensure that the work environment is safe for themselves, their employees, and the general public. If the Contractor feels

Project #004 Coon Run SC

that a requirement of this contract would place any of the aforementioned in a unsafe environment, then work should stop on that area of work and the Contractor should contact the COR (Contracting Officer's Representative), or CO (Contracting Officer) if COR is unavailable. Work in other areas that the Contractor does not view as unsafe should continue. The Contractor is required to follow all applicable OSHA standards while working on the job site. In addition, it is recommended that the successful contractor utilize appropriate personal protective safety equipment/clothing, which may include, but is not limited to, a hard hat, leg protection, eye protection, ear protection, and hand protection, DOT approved ATV helmet (if using ATV's or UTV's) while working in the project area.

245 - Payment

Payment will be authorized upon bid item completion and inspection/acceptance by the Forest Service. Partial payments will not normally be made on any resultant contract which totals less than \$1,000, or occurs more frequently than once a month.

250 – Equipment Cleaning Provisions – Non-native Invasive Plant Control

To help prevent the spread on non-native invasive plants, Contractors shall ensure that prior to moving any equipment to a work site on the Allegheny National Forest that they clean all soil, seeds, vegetative matter or other debris that could contain or hold seeds from equipment. Equipment shall be considered free of soil, seeds and other such debris when a visual inspection does not disclose such material.

Equipment includes, but not limited to, the following: mechanized spreaders, augers, shovels, off-road equipment used for transport of materials (ATV's and trailers), heavy equipment (dozers, backhoes, excavators, or other tracked and/or wheeled vehicles), and power hand tools (chain saws, brush cutters, etc.).

Disassembly of equipment components is not required. The use of detergents or other cleaning agents is not required. Equipment should not be cleaned in streams, ditches or other waterways.

**Project #004
Coon Run SC**

255 – Measurement

- A) Measurement – The distance/quantity around each project area have been measured on a horizontal plane around the established boundaries.

- B) Remeasurement - The Contractor may at any time after award request remeasurement of any project area. The request shall be made in writing. Remeasurement will be made within the established boundaries. If remeasurement indicates a variance of 15 percent or less, the Contractor shall bear the cost of remeasurement and payment will be based on the remeasured acreage. If remeasurement indicates a variance greater than 15 percent, payment will be based on the remeasured acreage and the Government will pay the cost of remeasurement.

260- Progression of Work

- 1) All work must be completed by **03/30/2014** for the units listed below:

443053, 443054, 434045, 434046

- 2) All work must be completed between the periods of **01/01/2014 to 12/30/2014** for the units listed below:

458009, 488026, 299001.

**Project #005
Coon Run SC**

GENERAL SPECIFICATIONS

Scope of Contract

Project 005 calls for repair/replacement of 8 foot woven wire fences (7 foot high with 1 foot overlap on the ground) in wooded areas on the Bradford Ranger District of the Allegheny National Forest. Areas of repairs are located on the north central portion of the fence. There are multiple areas that need to be repaired and approximately 1200 feet of fence that is currently on the ground damaged from fallen trees. Work will entail repair of existing fence, removal of damaged fencing, and construction of new fencing in areas of severely damaged areas. All areas have walk-through gates. These gates may need repair or replacement. The contractor is responsible for furnishing all supervision, labor, equipment, tools, materials, and incidentals necessary to complete the work.

Location, Description of Project Areas and Identification of Project Area

Unit ID	Payment Unit	Feet	General Location Warrant/Lot/Twnshp/Co	Rd Access	Map Page
431026	NA	~1200	Warrant 3722/Corydon/Mckean	FR 430	4

Protection of Existing Structures

The Contractor shall be required to protect existing improvements such as tree shelters, pipelines, power lines, oil pumping jacks, buildings, gates, etc. which are located in the project area. The Contractor shall be required to repair or replace such improvements if damaged as a result of their operations.

Contractor Furnished Property

Contractor will furnish all tools needed to complete the maintenance this includes: ATV, hog rings or ring fasteners, fence staples (1 1/4 " galvanized), 2x4 boards, wire (galvanized or stainless steel), nails, wire twisting tool, crimping tools and sleeves, chain grab wire stretcher or other wire stretching tool, wire cutters, post driver, chain saw etc.

TECHNICAL SPECIFICATIONS

Fence Material

Fence

The fence will be a 7 foot high fence, using two, 47" rolls of galvanized steel woven wire fencing. Fence will have no more than 6" between stay wires, at least 10 graduated line wires, 12 1/2 gauge top and bottom wires, and 14 gauge line & stay wires.

Access Gates

Fences have gates for public access inside the fence. All fully functional gates (i.e. free swinging with posts tight in the ground) should be reused where repairs are needed. Forest Service will provide the Contractor functional replacement gates as needed.

Project #005 Coon Run SC

Fasteners

Staples will be 1 ¼ to 1 ½” in length, galvanized and barbed. Stapling must be into a 2x4 board placed between the tree and the fence. No staples will be driven into trees.

Nails used to secure the 2x4 boards for tree protection should be no larger than 16d. Two nails, one at stump height and one near the top of the 2x4 will be used to secure the 2x4 to the tree.

Ties to secure the fence to metal poles will be 14 gauge stainless ties. Hog rings may be used to fasten the top fence to the

Project Description

Fence Stretching

Damaged areas of fence shall be pulled back to a tight condition that would resemble newly constructed fence. The Contractor will use a wire-stretching tool to achieve this. Fencing cannot be pulled to a new tight condition only by hand. Loose fence will be tightened and be stapled to a 2x4 or rewired to a steel post. All top line wires that are found severed will be stretched back tight with a wire stretching tool and spliced with a crimping sleeve.

The fence will be stretched so that the wire is pulled against a corner or turning support. Maximum distance between steel posts, wooden posts or trees will be no greater than 30 feet. The top and bottom rolls of fence will be fastened to each other at least every 6 feet by hog rings or heavy duty ring fasteners. The bottom wire of the top roll shall be fastened to the top wire of the bottom roll. Where a post is used, the fence must be secured to the post a minimum of four places with one being the top wire of the top section.

No aluminum wire, aluminum hog ring, etc. will be used in the repair of the fence.

Fence Supports

The Contractor shall repair the fence by fastening the fence to posts or trees. All trees will be protected by placing a 2”x4” board between the fence and the tree and stapling the fence to the board. Neither trees less than 4” DBH nor striped maple trees are to be used. Boards will be fastened to trees with no more than 2 nails, one nail in the top and one in the bottom (the bottom being below stump height (<12")). Black cherry trees or veneer quality trees will not be used unless prior approval is given by the Forest Service on a case by case basis.

Posts

Posts that are not in-line will be treated wood, 6"x 6" square, or 5" diameter round and braced or supported in place. In-line posts may be the same as the previously mentioned wood post, or steel post that weigh 2 lb/ft. All posts will be at least ten (10) feet long set at least 2 feet into the ground. Corner posts will be braced and/or guy wired to withstand the pull of the fence without bending or pulling out of the ground. Guy wire should be secured by posts and not to nearby trees.

Where no trees or steel posts exist within 30' of the damage, a new steel post will be placed. Metal posts will be used to support sections of fence crushed by fallen trees or where original support trees have fallen over or where the fence has come loose because no support exists for 30'. When using poles, care should be used so the top roll of fence is not separated from the bottom roll.

Project #005 Coon Run SC

Securing the Fence Bottom

The fence must be repaired so that deer will be unable to crawl under the fence. This requires leaving a one foot overlap on the ground to the outside of the fence which is anchored to the ground with stakes or pins, stapled to sound wood, or held in place by large rocks every 10'. Gaps between the ground and fence over 3 inches high and 6 inches long will be filled in with pieces of sound wood stapled to the fence bottom, or attached pieces of fence wire, or rocks. Fences with rotten wood securing the bottom will have to be replaced with sound wood if the bottom has sprung up. Where the fence crosses a stream channel, an additional piece of fence may be needed to extend the fence to the bottom of the channel for securing.

Woven Wire Fencing Patching

All holes greater than 1' x 1' will be patched with wire and/ or woven wire fencing. All holes greater than 2' x 2' will be patched with woven wire fencing. The top and bottom rolls of fence will be secured by hog rings, 16 gauge or larger galvanized or stainless steel wire, or by twisting the top and bottom wires together every 10 feet.

Location of New Fencing

Where entire sections of damaged fencing are removed, new fencing will be installed in the original fence location, unless prior approval is given by the Forest Service on a case by case basis.

Deer Drive

Prior to closing up each fence area, the Contractor shall conduct a deer drive to chase out any deer within the fence area. The Contractor may need to leave multiple holes in order to get the deer out and shall time the drive so that the fence is closed a short time after the drive is completed (e.g the same day).

Equipment and Vehicle Use

Fence Maintenance Trail

Contractor will use existing maintenance trail. Any trees, tree tops, or large branches blocking this trail will be removed and the trail reopened to a width of 6'. Contractor will not create new trails. Vehicles may not cross the interior of the area to be fence except with approval of the COR.

Erosion Prevention

Equipment shall not be operated when ground conditions are such that excessive damage will result. Contractor shall construct cross ditches, dips, or berms along cleared path as marked on the ground. Insloping or outsloping maybe needed for proper drainage and to minimize rutting. The contractor will be required to fill in areas which become excessively rutted during work, or install waterbars, dips etc. on steep and poorly drained portions of the cleared path. Small streams or seeps including adjacent banks which cannot be avoided will be cleared by hand; not by bulldozer. If bulldozer crosses them they must be corduroyed with logs or poles to stabilize the crossing and minimize earth disturbances and siltation.

**Project #005
Coon Run SC**

Progression of Work

- 1) All work must be completed by **12/31/2013** for the units listed below:

431026

Project Area Clean Up

The contractor is responsible for proper disposal of all removed/ replaced fence wire, fasteners, damaged gates, 2'x 4's, and posts. The Contractor shall remove all fence material as indicated above and all other trash and debris generated in the performance of the contract from Federal Lands. This includes: lunch wrappers, discarded soft drink containers, empty cigarette packages and other debris left by the Contractor's employees.

**Project #006
Coon Run SC**

Division 100 - General Specifications

110 - Scope of Contract

It is the intent of this contract to dismantle, remove and dispose of 46,806 feet of woven wire fence. The fences are in wooded areas of the Bradford Ranger District of the Allegheny National Forest. All areas have walk-through gates to remove on each fence. The contractor is responsible for furnishing all supervision, labor, equipment, tools, and incidentals necessary to complete the work.

Note of interest

These fences were established prior to 2003. In 2003 these area received a large wind event blowing down a large portion of the trees in the area, which resulted in damage of many of the proposed project areas. **It is strongly encouraged that all potential contractors view this project prior to bidding.**

120 – Location, Description of Project Areas and Identification of Project Area

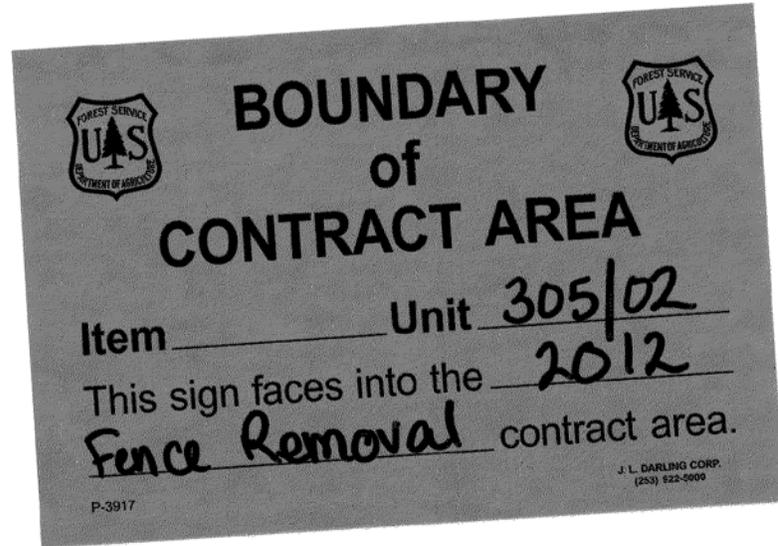
The work area is located on the Allegheny National Forest, Bradford Ranger District. Refer to the Contract Area Map for exact locations.

Unit ID	Payment Unit	Feet	General Location Warrant/Lot/Twnshp/Co	Rd Access	Map Page
305007	NA	3960	Lot 394/Sheffield/Warren	FR 446E	9
305009	NA	4407	Lot 394/Sheffield/Warren	FR 446E	9
305027	NA	3279	Lot 394/Sheffield/Warren	FR 446E	9
305030	NA	3168	Lot 393/Sheffield/Warren	FR 446E	9
305008	NA	3703	Lot 393/Sheffield/Warren	FR 446E	9
305003	NA	7294	Lot 372/Sheffield/Warren	FR 446	9
305006	NA	4709	Lot 372/Sheffield/Warren	FR 446B	9
305004	NA	3674	Lot 372/Sheffield/Warren	FR 446	9
305005	NA	7912	Lot 371/Sheffield/Warren	FR 446B	9
305039	NA	4700	Lot 353/Sheffield/Warren	FR 446C	9

Identification of project area- All project areas will be identified with a pink tag, see example below. The contractor or field representative is required to read pink tag, **ensure that he/she is at the correct location according to the pink tag's information and initial it prior to starting any work on the project area.**

**Project #006
Coon Run SC**

Ex. of pink tag that needs to be initialed prior to start of project work.



130- Contractor Representative

Before work starts, the Contractor shall designate a person knowledgeable of contract requirements to act in their absence. The Contractor or authorized representative shall be at the job site whenever work is in progress. In the absence of the Contractor, the authorized representative may receive instructions from the Contracting Officer.

140 - Protection of Existing Structures

The Contractor is required to protect existing improvements such as pipelines, powerlines, buildings, roads/traffic gates etc. which may be located in the project area. The Contractor shall be required to repair or replace such improvements if damaged as a result of their operations.

150 – Notification

The Contractor is required to keep the Contracting Officer currently informed of their work schedule and physical location of their work force to permit ready location and timely inspection of accomplished work. The contractor shall also notify the contracting officer at least weekly of the progress being attained on this project. This notification can be either oral or written.

Project #006 Coon Run SC

Division 200 - Technical Specifications

210 - Project Description

This project consists of taking down and disposing of seven foot high woven wire deer fence. The fencing is comprised of two 4' rolls of fencing stacked on top of each other. The bottom foot of the fencing is buried around perimeter of the project area and is to be dug up. Metal or wood posts, 2x 4 lumber, gates, miscellaneous wire, and fasteners are also included for removal.

211 - Fence Material - All fence wire, hog rings and other wire must be removed from the site and National Forest land and disposed of properly.

212 - Steel Posts - Steel posts must be pulled and removed from the site and National Forest land and disposed of at contractor's expense.

213 - Fasteners - All nails and fence staples must be completely removed from live trees.

Sawlog Sized Trees (greater than 9" dbh) - Remove all nails, staples, and wire. Deeply embedded wire shall be cut flush with the trunk of the tree and the tree flagged to indicate remaining metal.

Pole Sized Trees (less than 9" dbh) - If nails or embedded metal cannot be pulled free, then the tree may be felled (or girdled if not along a road or recreational trail). All trees felled will have a stump height of 6 inches or less on the up hill side of the stump. All stumps will be cut parallel to the ground; **no angular cuts on stumps will be accepted.**

Red painted or blazed Forest Service property boundary trees with ingrown fence will not be cut down.

214 – Wooden boards and posts - All 2"x4" boards shall be removed from trees, and all 4"x4" or larger posts shall be pulled. All wooden materials shall be removed from the site and National Forest land.

215 – Gates – Walkthrough (man) gates will be removed from each site, unless otherwise designated by the COR.

216- Brush Cutting – All brush cut to remove the fence will be completely severed at a height no greater than 6 inches above the ground on the uphill side of the tree. All stumps will be cut parallel to the ground; no angular stumps are permitted.

Project #006 Coon Run SC

220 - Vehicle Operation

ATV's (All-Terrain Vehicles) may be operated around the perimeter of the fence to accomplish removal only. Other equipment can be used, but must be authorized by COR prior to use. No ATV/equipment travel through the interior of fenced area is permitted. Not all fences can be traversed along their entire perimeter. If at any time the Forest Service inspections indicate that soil damage has occurred due to the use of ATV's, such damage shall be repaired by the Contractor at their expense.

225 – Project Area Clean Up

The contractor is responsible for proper disposal of fencing materials as indicated above. Any and all additional trash and debris generated in the performance of this contract shall be removed from Forest Service land.

230 – Project Area Materials Staging

Staging areas large enough for gathering, sorting, piling, etc. of removed materials prior to removal from Forest Service land are permitted in each project area. The contractor is responsible to notify the Forest Service in writing as to the desired location for each staging area. Location will be mutually agreed upon prior to start of removal operations.

235 – Project Area Release

Only three (3) awarded project areas shall be operated at one time, unless otherwise agreed in writing by the Forest Service. Unless there is agreement in writing to postpone specific requirements, all contractual requirements on a project area shall be accepted by Forest Service prior to working on additional project areas.

240 – Work Plan and Schedule

Prior to the start of work, the Contractor shall prepare a work plan and schedule that demonstrates when work will be completed within the performance period described in Section F – Deliveries of Performance. The Contractor shall advise the Contracting Officer or COR of any periods that the Contractor will not be working as outlined in the work plan. The Contractor may update the work plan as needed. Work Plans shall be accepted by the Contracting Officer before work may commence.

Project #006 Coon Run SC

245 – Safety

It is the Contractor's responsibility to ensure that the work environment is safe for themselves, their employees, and the general public. If the Contractor feels that a requirement of this contract would place any of the aforementioned in a unsafe environment, then work should stop on that area of work and the Contractor should contact the COR (Contracting Officer's Representative), or CO (Contracting Officer) if COR is unavailable. Work in other areas that the Contractor does not view as unsafe should continue. The Contractor is required to follow all applicable OSHA standards while working on the job site. In addition, it is recommended that the successful contractor utilize appropriate personal protective safety equipment/clothing, which may include, but is not limited to, a hard hat, leg protection, eye protection, ear protection, and hand protection, DOT approved ATV helmet (if using ATV's or UTV's) while working in the project area.

245 - Payment

Payment will be authorized upon bid item completion and inspection/acceptance by the Forest Service. Partial payments will not normally be made on any resultant contract which totals less than \$1,000, or occurs more frequently than once a month.

250 – Equipment Cleaning Provisions – Non-native Invasive Plant Control

To help prevent the spread on non-native invasive plants, Contractors shall ensure that prior to moving any equipment to a work site on the Allegheny National Forest that they clean all soil, seeds, vegetative matter or other debris that could contain or hold seeds from equipment. Equipment shall be considered free of soil, seeds and other such debris when a visual inspection does not disclose such material.

Equipment includes, but not limited to, the following: mechanized spreaders, augers, shovels, off-road equipment used for transport of materials (ATV's and trailers), heavy equipment (dozers, backhoes, excavators, or other tracked and/or wheeled vehicles), and power hand tools (chain saws, brush cutters, etc.).

Disassembly of equipment components is not required. The use of detergents or other cleaning agents is not required. Equipment should not be cleaned in streams, ditches or other waterways.

**Project #006
Coon Run SC**

255 – Measurement

- A) Measurement – The distance/quantity around each project area have been measured on a horizontal plane around the established boundaries.
- B) Remeasurement - The Contractor may at any time after award request remeasurement of any project area. The request shall be made in writing. Remeasurement will be made within the established boundaries. If remeasurement indicates a variance of 15 percent or less, the Contractor shall bear the cost of remeasurement and payment will be based on the remeasured acreage. If remeasurement indicates a variance greater than 15 percent, payment will be based on the remeasured acreage and the Government will pay the cost of remeasurement.

260- Progression of Work

- 1) All work must be completed by **09/30/2014** for the units listed below:

305007, 305009, 305027, 305030, 305008, 305003, 305006, 305004, 305005, 305039

SCHEDULE OF ITEMS, SPECIFICATIONS & DRAWINGS FOR SPECIFIED ROADS

I. Road Summary	1 page
II. Schedule of Items	1 page
III. Specification List and Special Project Specifications	43 pages
IV. Road Plans: Coon Run Stewardship <u>Project No. 7</u>	12 pages

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Road Summary

SPECIFIED ROADS

a. Description of Work:

Reconstruction: FR 141

Pit run, DSA Limestone, Reconditioning of Roadbed, Mobilization, Culvert Installation, Seeding & Mulching, Clearing and Grubbing, Dispersed Site Reconstruction, Roadway Ditching, Removal of Culverts, Pit Development and Brushing

b. Construction Costs:

<u>Road No.</u>	<u>Miles</u>	<u>Estimated Road Cost</u>
141	1.1 ®	

Completion dates: 9/30/2015

Schedule of Items

FR 141

Pay Item	Description	Pay Unit	Estimated Quantity	Engineer's Estimate Unit Price	Engineer's Extended Total
15101	Mobilization (Lump Sum)	All	1		
15713	Soil erosion and pollution control (filter sock) (Lump Sum)	All	1		
20102	Clearing and grubbing (Lump Sum)	All	1		
20110	Native rock retaining wall and path (Lump Sum)	All	1		
20301	Removal of culverts	Each	22		
20404	Unclassified borrow - turnouts	Cubic Yard	250		
20405	Turnout excavation and waste excavation disposal	Cubic Yard	627		
20430	Roadway ditching	Linear Foot	2065		
23050	Brushing (medium)	Mile	1.1		
25102	Placed riprap, NSA Size Number R-4	Ton	60		
30103	Aggregate base , grading pit run, compaction method B	Cubic Yard	780		
30115	Aggregate surface course , DSA limestone, compaction method B	Ton	2446		
30318	Road reconditioning, compaction method B (Grader)	Mile	1.1		
60263	18 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method B	Linear Foot	776		
60264	35" x 24" rise aluminized steel, type 2, corrugated steel pipe, 0.079 inch thickness, method B	Linear Foot	40		
60265	57" x 38" rise aluminized steel, type 2, corrugated steel pipe, 0.109 inch thickness, method B	Linear Foot	40		
62501	Seeding, hydraulic or dry method (Lump Sum)	All	1		
63301	Sign system (24" stop sign and U channel post)	Each	1		
65101	Pit and quarry development	Each	1		
TOTAL					

Specification List

The following specifications will be used for this contract:

Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects – FP-03 U.S. Customary Units. FP-03 is available on the internet at the following site: <http://flh.fhwa.dot.gov/resources/pse/specs/>

Supplemental Specifications – These specifications were prepared by the Forest Service and are a supplement to or change the FHWA specifications. These are designated SS.

Special Project Specifications – Are specifications prepared on the Allegheny National Forest and pertain to Pennsylvania Department of Transportation nomenclature. These are designated SPS.

Preface

Preface_wo_03_15_2004_m

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

101 - Terms, Format, and Definitions

101.00_nat_us_07_25_2005

101.01_nat_us_01_22_2009

101.01 Meaning of Terms

Delete all references to the TAR (Transportation Acquisition Regulations) in the specifications.

101.03_nat_us_06_16_2006

101.03 Abbreviations.

Add the following to (a) Acronyms:

AFPA	American Forest and Paper Association
MSHA	Mine Safety and Health Administration
NIST	National Institute of Standards and Technology
NESC	National Electrical Safety Code
WCLIB	West Coast Lumber Inspection Bureau

.

Add the following to (b) SI symbols:

mp	Milepost
ppm	Part Per Million

101.04_nat_us_03_29_2007

101.04 Definitions.

Delete the following definitions and substitute the following:

Bid Schedule--The Schedule of Items.

Bridge--No definition.

Contractor--The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the "purchaser".

Culvert--No definition.

Right-of-Way--A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

Add the following:

Adjustment in Contract Price--“Equitable adjustment,” as used in the Federal Acquisition Regulations, or “construction cost adjustment,” as used in the Timber Sale Contract, as applicable.

Change--“Change” means “change order” as used in the Federal Acquisition Regulations, or “design change” as used in the Timber Sale Contract.

Design Quantity--“Design quantity” is a Forest Service method of measurement from the FS-96 *Forest Service Specifications for the Construction of Roads and Bridges*. Under these FP specifications this term is replaced by the term “Contract Quantities”.

Forest Service--The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line--A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road--Temporary construction access built along the route of the project.

Purchaser--The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

Protected Streamcourse--A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

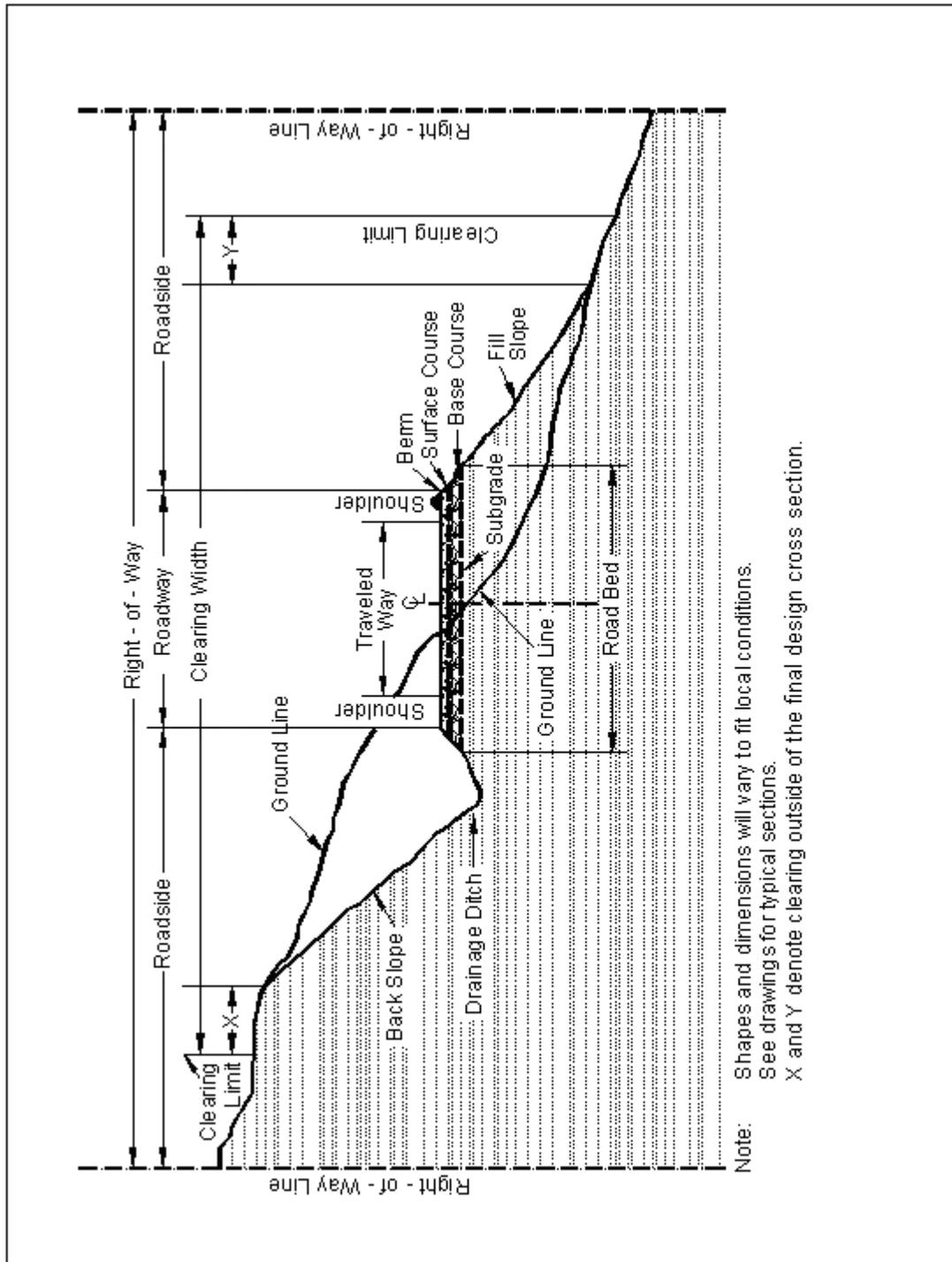
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

Schedule of Items--A schedule in the contract that contains a listing and description of construction items, quantities, units of measure, unit price, and amount.

Utilization Standards--The minimum size and percent soundness of trees described in the specifications to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

Figure 101-1—Illustration of road structure terms.



102 - Bid, Award, and Execution of Contract

102.00_nat_us_02_16_2005

102 Bid, Award, and Execution of Contract

Delete Section 102 in its entirety.

103 - Scope of Work

103.00_nat_us_02_16_2005

Deletions

Delete all but subsection 103.01 Intent of Contract.

104 - Control of Work

104.00_nat_us_06_16_2006

Deletions

Delete Sections 104.01, 104.02, and 104.04.

104.06_nat_us_02_17_2005

Add the following subsection:

104.06 Use of Roads by Contractor

The Contractor is authorized to use roads under the jurisdiction of the Forest Service for all activities necessary to complete this contract, subject to the limitations and authorizations designated in the Road Order(s) or described in the contract, when such use will not damage the roads or national forest resources, and when traffic can be accommodated safely.

105 - Control of Material

105.02_nat_us_01_18_2007

105.02 Material Sources.

105.02(a) Government-provided sources.

Add the following:

Comply with the requirements of 30 CFR 56, subparts B and H. Use all suitable material for aggregate regardless of size unless otherwise designated. When required, re-establish vegetation in disturbed areas according to section 625.

105.05_nat_us_05_12_2004

105.05 Use of Material Found in the Work.

Delete 105.05 (a) and (b) and the last sentence of the second paragraph and substitute the following:

Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. The Government is not obligated to make reimbursement for the cost of producing these materials.

106 - Acceptance of Work

106.07_nat_us_05_11_2004

106.07 Delete

Delete subsection 106.07.

107 - Legal Relations and Responsibility to the Public

107.05_nat_us_05_11_2004

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.06_nat_us_06_16_2006

107.06 Contractor's Responsibility for Work.

Delete the following from the first paragraph.

“except as provided in Subsection 106.07”.

107.09_nat_us_06_16_2006

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

107.10_nat_us_06_16_2006

107.10 Environmental Protection.

Add the following:

Design and locate equipment repair shops, stationary refueling sites, or other facilities to minimize the potential and impacts of hazardous material spills on Government land.

Before beginning any work, submit a Hazardous Spill Plan. List actions to be taken in the event of a spill. Incorporate preventive measures to be taken, such as the location of mobile refueling facilities, storage and handling of hazardous materials, and similar information. Immediately notify the CO of all hazardous material spills. Provide a written narrative report form no later than 24 hours after the initial report and include the following:

- Description of the item spilled (including identity, quantity, manifest number, and other identifying information).
- Whether amount spilled is EPA or state reportable, and if so whether it was reported, and to whom.
- Exact time and location of spill including a description of the area involved.
- Containment procedures.
- Summary of any communications the Contractor had with news media, Federal, state and local regulatory agencies and officials, or Forest Service officials.
- Description of clean-up procedures employed or to be employed at the site including final disposition and disposal location of spill residue.

When available provide copies of all spill related clean up and closure documentation and correspondence from regulatory agencies.

The Contractor is solely responsible for all spills or leaks that occur during the performance of this contract. Clean up spills or leaks to the satisfaction of the CO and in a manner that complies with Federal, state, and local laws and regulations.

108 - Prosecution and Progress

108.00_nat_us_02_16_2005

108 Delete.

Delete Section 108 in its entirety.

109 - Measurement and Payment

109.00_nat_us_02_17_2005

109 Deletions

Delete the following entire subsections:

109.06 Pricing of Adjustments.

109.07 Eliminated Work.

109.08 Progress Payments.

109.09 Final Payment.

109.02_nat_us_06_16_2006

109.02 Measurement Terms and Definitions.

(b) Contract quantity.

Add the following:

Contract quantities will be adjusted only when there are errors in the original design of 15% or more.

Change the following:

“(b) Cubic yard” to “(c) Cubic yard”.

Add the following definition:

(p) Thousand Board Feet (Mbf). 1,000 board feet based on nominal widths, thickness, and extreme usable length of each piece of lumber or timber actually incorporated in the job. For glued laminated timber, 1,000 board feet based on actual width, thickness, and length of each piece actually incorporated in the job.

151 - Mobilization

151.03_nat_us_08_05_2005

151.03 Payment

Delete the entire subsection and add the following:

151.03 Payment

Mobilization is considered an indirect cost of this contract and will not be compensated as a separate work item.

155 - Schedules for Construction Contracts

155.00_nat_us_05_11_2004

155 Delete.

Delete Section 155 in its entirety.

SPS 15713 - Erosion and Sedimentation Control Work - Special Project Specification

15713.01 Description

This work shall consist of installing approximately 610 feet of 12 inch diameter filter sock:

Station	Quantity (feet)
3+50	150
14+90	60
31+80	100
35+50	150
39+50	150

15713.02 Material

Compost filter sock shall be 3 millimeters HDPE 12 inch diameter with 3/8 inch mesh opening.

15713.03 Construction Requirements

Sock will be staked around the perimeter of 5 designated locations. This placement will be flagged by project inspector.

- Sock will be staked with 2 x 2 inches wooden stakes or equal on maximum spacing 10 feet spacing.
- Ground debris /litter will be removed prior to sock placement.
- Accumulated sediment shall be removed when it reaches ½ the above ground height for the sock and disposed in the manner described elsewhere in the plan.
- Socks shall be inspected weekly and after each runoff event. Damaged socks shall be repaired according to manufacturer's specifications or replaced within 24 hours of inspections.

15702.04 Payment

Payment for this work will be paid under section 15713 listed in the schedule of items lump sum quantity.

201 - Clearing and Grubbing

201.00_nat_us_08_05_2009

201.02 Material:

Delete Tree wound dressing material reference.

201.03 General.

Delete the last sentence.

201.04 Clearing.

Delete the last sentence of (d).

201.01 Description

Replace with the following

This work consists of clearing and grubbing within clearing limits and other designated areas.

201.04_nat_us_03_03_2005

Construction Requirements

201.04 Clearing.

Add the following:

Utilization standards for merchantable timber are listed below. Fall and buck merchantable material into lengths not to exceed 40 feet. Pieces (logs) meet utilization standards when such pieces would have met Utilization Standards if bucking lengths were varied to include such material.

Minimum Utilization Standards

Length	Diameter (Inside Bark) at Small End	33-1/3% Net Scale in
8 feet	9.6 inches	% of Gross Scale

201.04 Clearing. (c)

Delete paragraph (c) and replace with the following:

(c) In areas outside the excavation, embankment, and slope rounding limits, cut stumps to within 12 inches or one-third of the stump diameter of the ground, whichever is higher, measured on the side adjacent to the highest ground. For timber sales, stump heights will meet the requirements of the Timber Sale contract.

201.04 Clearing.

Delete subsection (d) and replace with the following:

(d) Do not cut vegetation less than 3 feet tall and less than 3 inches in diameter, that is within the clearing limits but beyond the roadway and not in a decking area, and that does not interfere with sight distance along the road.

Add the following:

(e) Trim branches of remaining trees or shrubs to give a clear height of 14 feet above the roadbed unless otherwise indicated. Trim tree limbs as near flush with the trunk as practicable.

(f) Remove brush from log decks. Deck logs so that logs are piled parallel to one another; can be removed by standard log loading equipment; will not damage standing trees; will not interfere with drainage, and will not roll. Keep logs in log decks free of brush and soil.

201.04 Clearing.

Add the following:

When marked in advance, remove dead trees over 6 inches in diameter measured at 12 inches above the ground that lean toward the road and are tall enough to reach the roadbed.

201.06 Disposal.

Delete the first sentence of this subsection and substitute the following:

Merchantable timber removed from Forest Service land is subject to the Forest Resources Conservation and Shortage Relief Act of 1990 (PL 101-382; 104 Stat. 714-726; 16 USC 620 et. seq.). Do not export timber from the United States or use in direct or indirect substitution for unprocessed timber exported from the United States, from private lands by Purchaser, or any person as defined in Section 493 (16 USC 620e) of the Act.

Unless Forest Service determines that circumstances warrant a written waiver or adjustment, (1) hammer brand all products on both ends with an assigned contract brand before removal from the project site, (2) hammer brand each product exempt from domestic processing on both ends with an exempt brand registered for use on exempt logs from National Forest, and (3) paint all domestic processing products on both ends with 2 inch circle of yellow paint according to Interim Specification 2400-400 (available upon request). Paint or brand products before removing them from project site unless approved by the CO. Brands and yellow paint must remain on logs until they are processed.

Contractor may remanufacture logs into different log lengths as approved. Repaint or rebrand all remanufactured pieces. Pay all surveillance costs except that Forest Service may waive such payment if such costs are minor and part of normal remanufacturing operations.

SPS 20110 - Retaining Wall/Path - Special Project Specification

20110.01 Description

This work shall consist of building a tapered 8 feet tall rock retaining wall utilizing native on-site stone. Also included is the construction of a 2 feet x 50 feet long walkway surfaced with pit run to the dispersed site.

20110.02 Material

Native rock (minimum size 4 feet x 3 feet x 1½ feet) approximately 50 required, will be obtained from FR 110A pit or along construction corridor with the approval of project inspector.

20110.03 Construction Requirements

Project inspector will flag retaining wall location.

- Native rock will be dry stacked and in sloped along the flag line with tapered ends.
- No stream disturbance will be permitted.
- Staked filter sock (SPS15702) will be located between toe of retaining wall and stream.
- Pit run (paid under bid item 30103) will be placed after retaining wall is constructed and mechanically compacted prior to DSA placement
- Pit run will be used to construct a 2 feet x 50 feet walkway with a maximum grade of 6% as located by project inspector.
- The turnout will be capped with DSA limestone paid under bid item 30115 and the path-walkway will be seeded.
- Seeding and mulching will be incidental to bid item 62503.

20110.04 Payment

Payment for the rock wall and path will be paid under section 20110 listed in the schedule of items lump sum quantity.

203 - Removal of Structures and Obstructions

203.01_nat_us_02_25_2005

203.01 Description.

Delete and replace with the following:

This work consists of disposing of construction slash and debris, salvaging, removing, and disposing of buildings, fences, structures, pavements, culverts, utilities, curbs, sidewalks, and other obstructions.

203.05_nat_us_02_24_2005

203.05 Disposing of Material.

Add the following:

(e): Scattering. Scatter pieces of wood less than 3 inches in diameter and 3 feet in length within the clearing limits. Do not place construction slash in lakes, meadows, streams, or streambeds. Immediately remove construction slash that interferes with drainage structures.

203.08_nat_us_02_24_2005

203.08 Payment

Add the following:

Disposal of construction slash will be compensated under the designated pay item in Section 201.

SPS 20430 - Roadway Ditching - Special Project Specification

20430.01 Description

This work shall consist of 2,065 feet of roadway ditching along FR 141.

20430.02 Construction Requirements

Work locations are listed in work description and will be reviewed with inspector prior to starting work.

- Ditches will be excavated with a ditching bucket to provide a constant slope if grader cannot provide the finished product desired.
- Ditch work required is noted in work description and will consist of moving ditchline towards toe of cut 2 to 4 feet varying along the corridor.
- All excavated material will be trucked off site to pit on FR 110A leveled off, seeded and mulched (seed and mulched is incidental to bid item 62503)

20430.03 Payment

Payment for this work will be paid under section 20430 listed in the schedule of items liner foot pay unit.

230 - Roadside Brushing

230.00_0114_us_08_04_2005

Description

230.01 Work. This work consists of removing all vegetative material including limbs, residual slash, live roadside brush, and small trees within the brushing limits designated on the plans.

Construction

230.02 Brushing. Cut all brush and small trees (6 inches diameter, or less, at the point of cut) inside the brushing limits and outside the roadbed no higher than 4 inches above ground level (6 inches for machine brushing). If rocks or other obstructions are encountered, cut no higher than 6 inches above the obstruction. Limb live trees with a diameter larger than 6 inches to provide a clear height of 14 feet above the road surface.

Cut all brush and trees located on the roadbed as nearly flush to the road surface as possible so stumps will not become a hazard to vehicle tires.

230.03 Windfalls. Limb windfalls lying within or across the brushing limits, cut off at the top of the existing cut slope or 5 feet from the shoulder on the fill slope. Dispose of windfall material as slash.

230.04 Road Junctions. Do not deposit brushing debris on the roadway of adjoining roads.

230.05 Slash Treatment. Scatter slash outside the brushing limits without damaging residual trees. Slash is defined as any material that has a length greater than 36 inches or a diameter greater than 2 inches at any point. Do not deposit material in streams, streambeds, culvert inlets or outlets, drainage ways, or cattle guards.

230.06 Acceptance. Roadside brushing will be evaluated under Subsection 106.02.

Measurement

230.07 Method. Measure the Section 230 items listed in the bid schedule according to Subsection 109.02 and the following.

Linear measurements will be horizontal along the road centerline.

Quantities will be the number of miles (or stations) and fractions thereof along the road centerline.

Payment

230.08. The accepted quantities will be paid at the contract price per unit of measurement for the section 230 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this section. See Subsection 109.05.

301 - Untreated Aggregate Courses

301.00_nat_us_03_03_2005

301 Title Change.

Change the title to: **Section 301 Aggregate Courses**

301.01_nat_us_03_03_2005

301.01 Work.

Add the following:

Work includes producing aggregate by pit-run, grid rolling, screening, or crushing methods, or placing Government-furnished aggregate. Work may include additive mineral filler, or binder.

301.02_nat_us_05_16_2005

301.02 Material.

Add the following:

Bentonite	725.30
Calcium Chloride Flake	725.02
Lignon Sulfonate	725.20
Magnesium Chloride Brine or Calcium Chloride Liquid	725.02

301.03_nat_us_09_14_2005

301.03 General.

Add the following:

Written approval of the roadbed is required before placing aggregate.

For pit run or grid-rolled material, furnish material smaller than the maximum size. No gradation other than maximum size will be required for pit-run or grid-rolled material. For grid rolling, use all suitable material that can be reduced to maximum size. After processing on the road, remove all oversize material from the road and dispose of it as directed by the CO.

Provide additives or binder, if required, at the proportions specified.

Develop and use Government furnished sources according to Section 105.

If the aggregate is produced and stockpiled before placement, handle and stockpiled according to Section 320. Establish stockpile sites at locations approved. Clear and grub stockpile sites according to Section 201.

301.04_nat_us_03_03_2005

301.04 Mixing and Spreading.

Delete the first sentence of the first paragraph and add the following:

Ensure that aggregate and any required additives, water, mineral filler, and binder are mixed by the specified method except, if crushed aggregate products are being produced and mineral filler, binder, or additives are required, uniformly blend following crushing. Control additive proportions to 0.5 percent dry weight.

(a) Stationary Plant Method. Mix the aggregate with other required materials in an approved mixer. Add water during the mixing operation in the amount necessary to provide the moisture content for compacting to the specified density. After mixing, transport the aggregate to the jobsite while it contains the proper moisture content, and place it on the roadbed or base course using an aggregate spreader.

(b) Travel Plant Method. After placing the aggregate for each layer with an aggregate spreader or windrow-sizing device, uniformly mix it with other required materials using a traveling mixing plant. During mixing, add water to provide the necessary moisture content for compacting.

(c) Road Mix Method. After placing the aggregate for each layer, mix it with other required materials at the required moisture content until the mixture is uniform throughout. Mix aggregate, water, and all other materials until a uniform distribution is obtained.

Spread the aggregate in a uniform layer, with no segregation of size, and to a loose depth that will provide the required compacted thickness.

When placing aggregate over geotextile, place aggregate in a single lift to the full depth specified.

Route and distribute hauling and leveling equipment over the width and length of each layer.

301.05_nat_us_05_17_2005

301.05 Compacting

Delete and replace with the following:

Compact each layer full width. Roll from the sides to the center, parallel to the centerline of the road. Along curbs, headers, walls, and all places not accessible to the roller, compact the material with approved tampers or compactors.

Compact the aggregate using one of the following methods as specified:

Compaction A. Operating spreading and hauling equipment over the full width of the travelway.

Compaction B. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction C. Moisten or dry the aggregate to a uniform moisture content between 5 and 7 percent based on total dry weight of the mixture. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction D. Compact to a density of at least 95 percent of the maximum density, as determined by AASHTO T 99, method C or D.

Compaction E. Compact to a density of at least 96 percent of the maximum density, as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

Compaction F. Compact to a density of at least 95 per-cent of the maximum density, as determined by AASHTO T 180, method C or D.

Compaction G. Compact to a density of at least 100 percent of the maximum density as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

For all compaction methods, blade the surface of each layer during the compaction operations to remove irregularities and produce a smooth, even surface. When a density requirement is specified, determine the in place density and moisture content according to AASHTO T 310 or other approved test procedures.

301.06_nat_us_03_03_2005

301.06 Surface Tolerance.

Add the following:

Thickness and Width requirements:

The maximum variation from the compacted specified thickness is ½ inch. The compacted thickness is not consistently above or below the specified thickness and the average thickness of 4 random measurements for any ½ mile of road segment is within + ¼ inch of the specified thickness.

The maximum variation from the specified width will not exceed +12 inches at any point. The compacted width is not consistently above the specified width and the average of any four random measurements along any ½ mile of road segment is within +4 inches of the specified width.

301.09 Measurement.

Replace the second paragraph with the following:

Measure aggregate by cubic yard compacted in place when payment is by contract quantities.

301.10 Payment

Delete the following:

adjusted according to Subsection 106.05

303 - Road Reconditioning

303.00_01_us_10_11_2006

Delete Section 303 in its entirety and replace with the following.

Description

303.01 This work consists of reconditioning ditches, shoulders, roadbeds, parking areas, turnouts, approach road intersections, cattleguards, asphalt surfaces and aggregate surfaces. Construct outslopes, clean and maintain all roadbed drainage structures when shown on the plans.

Material

303.02 Conform to the following Subsection:

Water 725.01

Construction Requirements

303.03 Ditch Reconditioning. Remove all slide material, sediment, vegetation, and other debris from the existing ditches and culvert inlets and outlets. Reshape ditches and culvert inlets and outlets to achieve positive drainage and a uniform ditch width, depth, and grade. Dispose of waste as shown on the plans.

303.04 Shoulder Reconditioning. Repair soft and unstable areas according to Subsection 204.07. Remove all slide material, vegetation, and other debris from existing shoulders including shoulders of parking areas, turnouts, and other widened areas. Dispose of waste as shown on the plans.

303.05 Roadbed Reconditioning Repair soft and unstable areas according to Subsection 204.07. Remove all organic, deleterious material larger than 6 inches from the top 6 inches of subgrade. Dispose of waste as shown on the plans. Scarify, rip and shape the traveled way and shoulders at locations and to the depth and width designated on the plans. Remove surface irregularities and shape to provide a uniform surface.

Dispose of rock larger than 4 inches brought to the surface during scarification in areas designated on the plans.

For portions of roads not requiring scarification, the roadbed may contain rocks larger than 4 inches provided they do not extend above the finished roadbed surface. Reduce in

place or remove rock extending above the finished roadbed surface. Dispose of removed rock in areas designated on the plans.

Compact using the following method as specified:

- (a) Compaction A. Operate equipment over the full width.
- (b) Compaction B. Operate rollers over the full width of each layer until visual displacement ceases, but not fewer than three complete passes. Use rollers that meet the following requirements:
 - (1) Steel wheeled rollers, other than vibratory, capable of exerting a force of not less than 250 pounds per inch of width of the compression roll or rolls.
 - (2) Vibratory steel wheeled rollers equipped with amplitude and frequency controls with a minimum weight of 6 tons, specifically designed to compact the material on which it is used.
 - (3) Pneumatic-tired rollers with smooth tread tires of equal size that will provide a uniform compacting pressure for the full width of the roller and capable of exerting a ground pressure of at least 80 psi.

303.06 Aggregate Surface Reconditioning. Repair soft and unstable areas to the full depth of the aggregate surface and according to Subsection 204.07. Scarify to the depth of the aggregate surface or to a depth of 8 inches, whichever is less, and remove surface irregularities. Reshape, finish, and compact the entire aggregate surface according to Section 308.

303.07 Roadway Reconditioning. Perform all the applicable work described in Subsections 303.03 through 303.06.

Maintain the existing cross slope or crown unless otherwise shown on the plans. Establish a blading pattern that will retain the surfacing on the roadbed and provide a through mixing of the materials within the completed surface width.

Blade and shape the subgrade for both surfaced and unsurfaced roads when moisture content is suitable for compaction.

303.08 Pulverizing. Scarify the surface to the designated depth and width. Pulverize all material to a size one and one half times the maximum sized aggregate or to 1½ inches, whichever is greater. Mix, spread, compact, and finish the material according to Section 301.

303.09 Acceptance. See Table 303-1 for sampling and testing requirements. Road reconditioning work will be evaluated under Subsections 106.02 and 106.04.

Measurement

303.10 Measure the Section 303 items listed in the Schedule of Items according to Subsection 109.02 and the following as applicable.

Measure ditch reconditioning and shoulder reconditioning by the mile, by the station or foot horizontally along the centerline of the roadway for each side of the roadway.

Measure roadbed reconditioning, aggregate surface reconditioning, roadway reconditioning, and pulverizing by the mile, by the station, or by the square yard.

Payment

303.11 The accepted quantities will be paid at the contract price per unit of measurement for the Section 303 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

602 - Culverts and Drains

602.03_nat_us_09_06_2005

602.03 General.

Add the following:

Ensure that the final installed alignment of all pipe allows no reverse grades, and does not permit horizontal and vertical alignments to vary from a straight line drawn from center of inlet to center of outlet by more than 2 percent of pipe center length or 1.0 feet, whichever is less.

625 - Turf Establishment

625.03_nat_us_07_02_2007

625.03 General.

Delete this subsection and replace with the following:

Apply turf establishment to prepared ground or any disturbed area between April 15th and October 15th. Apply turf establishment to the areas shown on the plans or worklists within 7 days after completion of ground disturbing activities. Unless otherwise specified in writing by the CO apply turf establishment after each 1000 foot section of road has been constructed to template lines. Seeded areas damaged by construction activities shall be reseeded within 10 days of the damage. Do not seed during windy weather or when the ground is excessively wet, frozen, or snow covered.

Assure that all seed and mulch used in the work conforms to the weed free requirements of Section 713.

625.04 Preparing Seedbed.

Delete entire subsection and replace with the following:

Ensure that the surface soil is in a roughened condition favorable for germination and growth.

625.05 Watering

Delete entire subsection.

625.06 Fertilizing.

Delete entire subsection and replace with the following:

Apply fertilizer having a chemical analysis as listed below by the following methods.

(a) Dry Method. Apply the fertilizer with approved mechanical equipment. Hand operated methods are satisfactory on areas inaccessible to mechanical equipment.

(b) Hydraulic method. Use hydraulic-type equipment capable of providing a uniform application using water as the carrying agent. Add fertilizer to the slurry and mix before adding seed. Add the tracer material when designated by the CO.

Fertilizer. Apply fertilizer at the rate of 450 pounds per acre. Insure that the fertilizer meets the following chemical analysis:

<u>Nutrient</u>	<u>Percent</u>
Nitrogen, N	<u>10</u>
Phosphorus, P ₂ O ₅	<u>20</u>
Potassium, K	<u>20</u>

625.07 Seeding.

Delete the first sentence and add the following.

Apply seed mix by the following methods:

(a) Dry method. Delete the third sentence.

Add the following after subsection

(b).Seed Mix. Furnish and apply the following kinds and amounts of pure live seed from Ernst Conservation Seeds, 9006 Mercer Pike, Meadville, PA (800) 873-3221 or Fax (814) 336-5191 or www.ernstseed.com Native Right-of Way Woods Seed Mix with Annual Ryegrass-ERNMX-132-1:

<u>Type of Seed</u>	<u>Quantity of Pure Live Seed (Lbs/Acre)</u>
1. 30% Virginia Wild Rye	9
2. 20% Annual Rye Grass	6
3. 15% Shelter Switchgrass	4.5
4. 10% Creeping Red Fescue	3
5. 5% Autumn Bentgrass	3
6. 5% Fox Sedge	3
7. 5% Showy Tick Trefoil	3
8. 5% Nimble Will	3
9. 5% Tioga Deer Tongue	3

Total Seeding Rate 30lb per acre

Determine the pounds of seed to be furnished per acre by dividing the pounds of pure live seed required per acre by the product of the percent purity and percent germination.

625.08 Mulching.

Delete the entire subsection and replace with the following:

Apply Mulch within **24** hours after seeding by the following methods.

(a) Dry Method. Apply mulch with a hand spreader or a spreader utilizing forced air at a rate of **4000** pounds per acre. Anchor the mulch with an approved stabilizing emulsion tackifier at a rate of **0** gallons per acre. Do not mark or deface structure, pavements, utilities, or plant growth with tackifier.

(b) Hydraulic Method. Apply mulch in a separate application from the seed using hydraulic-type equipment according to Subsection 625.07(b).

Apply wood fiber or grass straw cellulose fiber mulch at a rate of **775** pounds per acre.

Apply bonded fiber matrix hydraulic mulch at a minimum rate of 775 pounds per acre. Apply so no hole in the matrix is greater than 0.04 inches. Apply so that no gaps exist between the matrix and the soil.

Inaccessible areas may be mulched by hand. Apply mulch uniformly over the entire disturbed area.

625.09 Protecting and Caring for Seeded Areas

Delete the first sentence and add the following:

Protect and care for seeded areas until final acceptance.

625.11 Measurement.

Delete the entire Subsection and replace with the following:

Measure the Section 625 items listed in the bid schedule according to Subsection 109.02.

SPS 635 - Temporary Traffic Control - Special Project Specification

635.03_nat_us_05_13_2004

635.03 General.

Add the following:

Install temporary traffic control signs to temporary posts or approved temporary sign mounts.

635.03_allegheny_local_01_29_2013

Add the following:

Heavy Truck Traffic signs (3) will be installed and maintained at the following locations:

FR 262 northbound 500 feet south of intersection with FR 110

FR 262 southbound 500 feet north of intersection with FR 141

FR 120 eastbound at the intersection with FR 259

Road Closed 1 Mile Ahead (1) north bound at the intersection of FR 141 and FR 110

Road Closed on Type 3 barricade (2) will be installed and maintained at the following locations:

FR 141 northbound at the intersection of FR 141 and FR 120

FR 141 southbound at the intersection of FR 141 and FR 262

FR will be closed to all construction activities and open for snowmobilers from December 20 to April 1 from 3 PM Fridays to 7 AM Mondays.

635.27 Payment.

Add for finishing, installing and maintaining traffic control signs listed above shall be incidental to bid item 15101 mobilization.

650 - Road Closure Devices

650.00_nat_us_06_28_2007

Description

650.01 Work. Furnish and install, or install only, road closure devices using fabricated gates and accessories, combination post and rail barriers, concrete barriers, earth mound barriers, and other devices.

Materials

650.02 Requirements. Furnish materials to be used in fabricating gates and barriers. Ensure that all hardware is galvanized in accordance with AASHTO M 232 and meets the requirements of ASTM A 307. Furnish plain or cut washers that are American Standard Washers.

Furnish timber posts, rails, and lumber that meet the requirements of AASHTO M 168. Provide timber of the species and type, and rate of preservative treatment. Furnish concrete that meets the requirements of Subsection 601.03, method B or C. Construct earth mound barriers from excavated material adjacent to the barrier location, or from other designated locations.

Construction

650.03 Performance. Place road closure devices at designated locations. Construct all devices to the required dimensions. In assembling gates, perform required welding in accordance with the best modern practice and the applicable requirements of AWS D1.1.

After assembly, clean non-galvanized steel pipe gates and paint them with one coat of zinc-rich primer and two coats of exterior enamel of the required type and color.

Set all posts vertically and embed them to the required depth. Place concrete for embedment against undisturbed earth within an excavation sized to achieve the embedment dimensions. Compact the backfill in 6 inch layers to finished grade.

Furnish and install all signs and/or reflective warning markers accessory to the road closure device.

650.04 Acceptance. Construction of road closure devices will be evaluated under Subsections 106.02 and 106.04.

Measurement

650.05 Measure the items listed in the bid schedule according to Subsection 109.02.

Payment

650.06 The accepted quantities, measured as provided in Subsection 109.02 and above, will be paid at the contract price per unit of measurement for the Section 650 pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

651 - Development of Pits & Quarries

651.00_nat_us_03_02_2005

Description

651.01 This work consists of clearing, grubbing, stripping topsoil, removing overburden, constructing access roads, conducting restoration activities, and performing other incidental work required for pit or quarry development.

Construction Requirements

651.02 General. Submit a plan of operations according to Section 105. Perform all work in accordance with Sections 105, 201, 203, 204, 625, and 635, landscape preservation requirements, and the approved pit and quarry development plan of operations. Perform the work in accordance with MSHA 30 CFR, part 56.

651.03 Acceptance. Developing pits and quarries will be evaluated under Subsections 106.02 and 106.04.

Measurement

651.04 Measure the Section 651 items listed in the bid schedule according to Subsection 109.02.

Payment

651.05 The accepted quantities will be paid at the contract price per unit of measurement for the Section 651 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

SPS 703 - Aggregate

Add the following: **703.20 Driving Surface Aggregate**. All Driving Surface Aggregate (DSA) is to be derived from natural limestone formations. Stone is defined as rock that has been crushed; rock is defined as consolidated mineral material. For use in this program, both are restricted to that which has been mined or quarried from existing bedrock formations.

All components of the aggregate mix are to be derived from crushed parent rock material that meets program specifications for abrasion resistance, pH and freedom from contaminants. Ninety-eight percent (98%) of the fines passing the #200 sieve must be parent rock material. No clay or silt soil may be added. The amount of particles passing the #200 sieve shall be determined using the washing procedures specified in PTM No. 100.

Size: The required amount and allowed ranges, determined by weight, for various size particles are:

PASSING SIEVE	LOWER%	HIGH%
1 ½ inch	100%	
¾ inch	65%	90%
#4	30%	65%
#16	15%	30%
#200	10%	20%

LA Abrasion: The acceptable limit is measured by weight loss is "less than 40% loss". Los Angeles Abrasion test, AASHTO T-96 (ASTM C 131) shall be used to determine this property. Existing tests made for and approved by PennDOT will be accepted.

Sulfate Test: Soundness or resistance to freeze/thaw (i.e. sulfate test) is not specified for this application because a gravel road driving surface aggregate is not bound within a concrete or asphalt mix.

pH: Aggregate must be within the range of pH 6 to pH 9 as measured by EPA 9045C.

Optimum Moisture: Material is to be delivered and placed at optimum moisture content as determined for the particular source. The optimum percentage moisture is to be identified by the supplier in the bid purchasing documents. Loads with excessive moisture shall be rejected. Water draining from the tailgate, excess material sticking to the roller drum or the inability to compact the material are field indicators of excess moisture. In addition, if a load is too dry or does not have enough fines it will be rejected. Visual inspection of the load and poorly consolidated material after compactive effort are field indicators of low moisture or poor product gradation.

Transport: Tarps are to be used to cover 100% of the load's exposed surface from the time of loading until immediately before dumping. This requirement includes standing time waiting to dump.

Aggregate producers are required by the program to certify that the aggregate they deliver conforms to the program specifications. To eliminate segregation of material, stockpiling of material at jobsite will not be permitted unless authorized by COR.

The following are "Local" sources for this material:

Hawbaker - Turtlepoint, PA. 814-237-1444 or 814-642-2500

New Enterprise Stone & Lime Co. Tyrone, PA 814-695-4405

Road Preparation Specifications: The road surface to receive the aggregate should have template with crown of 2% or $\frac{1}{4}$ inch per foot. The receiving surface is to be scarified to permit knitting of the aggregate.

Driving Surface Aggregate Placement: Minimum compacted depth of four inches is to be established for driving surface. Driving Surface Aggregate is to be applied by tailgate spreading unless spreader box is specified. Material when placed shall be compacted as follows: Beginning on the lower or berm side of the crown, begin rolling and work your way to the top of the crown by overlapping the successive longitudinal passes. Do not run the roller lengthwise directly on the crown. Compaction with truck tires is not accepted. Steel wheel rollers other than vibratory shall be capable of exerting a force of not less than 250 pounds per inch of width of the compression roller or rollers. Rollers shall be self propelled with a minimum weight of 6 tons. Contractor must have certification in writing that material placed is Driving Surface Aggregate meeting this specification.

1" Minus Aggregate (DSA Gravel non limestone) Size: The required amount and allowed ranges, determined by weight, for various size particles are:

PASSING SIEVE	LOWER%	HIGH%	
1 $\frac{1}{2}$ inch	100%		
$\frac{3}{4}$ inch	65%	95%	
#4	30%	65%	LA Abrasion < 40%
#16	15%	30%	Sulfate Test - Not Applicable
#200	10%	15%	PH between 6 and 9

Material available at Glenn O. Hawbacker - Pittsfield Pit 814-563-7911

SPS 705 - Rock

Replace 705.02 with the following:

705.02 Riprap Rock. Furnish rock sound, free from structural defects and foreign substances such as soil, shale, and organic materials. Use rock conforming to the following requirements:

No shale seams

Hard and angular shaped rock with neither width nor thickness less than one-third its length.

Minimum specific gravity of 2.5 as determined according to AASHTO T 85, bulk saturated, but surface-dry basis.

Each load of rock well-graded, from smallest to the largest size

Class, Size No. Rock Size (inches)	Percent Passing (Square Openings)				
	R-7	R-6	R-5	R-4	R-3
30	100				
24		100			
18	15-50		100		
12	0-15	15-50		100	
9			15-50		
6		0-15		15-50	100
4			0-15		
3				0-15	15-50
2					0-15
Nominal Thickness	36	30	24	18	12

DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION 9
ALLEGHENY NATIONAL FOREST

Coon Run Stewardship Project No. 7

Driving Surface Aggregate (DSA) Limestone - 1.1 Mile of FR 141 Mudlick

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 Southwest Reservoir 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:

Francis E. Martinez

Approved By:

Michael J. [Signature]

District Ranger

2/1/2013

Date

Dan Salom

Forest Engineer

2-4-2013

Date

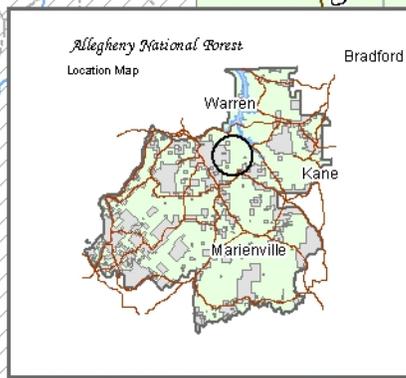
Erin Connelly

Forest Supervisor

2/4/2013

Date

Coon Run Stewardship Project No. 7



1:24,000



Schedule of Items

FR 141

Item	Description	Unit	Quantity
15101	Mobilization (Lump Sum)	All	1
15713	Soil erosion and pollution control (filter sock) (Lump Sum)	All	1
20102	Clearing and grubbing (Lump Sum)	All	1
20110	Native rock retaining wall and path (Lump Sum)	All	1
20120	FR 259 dispersed site reconstruction (2)	LSQ	1
20301	Removal of culverts	Each	22
20404	Unclassified borrow - turnouts	Cubic Yard	250
20405	Turnout excavation and waste excavation disposal	Cubic Yard	627
20430	Roadway ditching	Linear Foot	2065
23050	Brushing (medium)	Mile	1.1
25102	Placed riprap, NSA Size Number R-4	Ton	60
30103	Aggregate base, grading pit run, compaction method B	Cubic Yard	780
30115	Aggregate surface course, DSA limestone, compaction method B	Ton	2446
30318	Road reconditioning, compaction method B (Grader)	Mile	1.1
60263	18 inch aluminized steel, type 2, corrugated steel pipe, 0.064 inch thickness, method B	Linear Foot	776
60264	35" x 24" rise aluminized steel, type 2, corrugated steel pipe, 0.079 inch thickness, method B	Linear Foot	40
60265	57" x 38" rise aluminized steel, type 2, corrugated steel pipe, 0.109 inch thickness, method B	Linear Foot	40
62501	Seeding, hydraulic or dry method (Lump Sum)	All	1
63301	Sign system (24" stop sign and U channel post)	Each	1
65101	Pit and quarry development	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 CLOSED, TRUCK TRAFFIC and ROAD CONSTRUCTION AHEAD" signs on all roads worked on in this project. 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. 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

-Please see gate typical drawing for gate signs required.

-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.

-Road segments designated for roadway ditching shall have excavated material hauled to pit.

-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

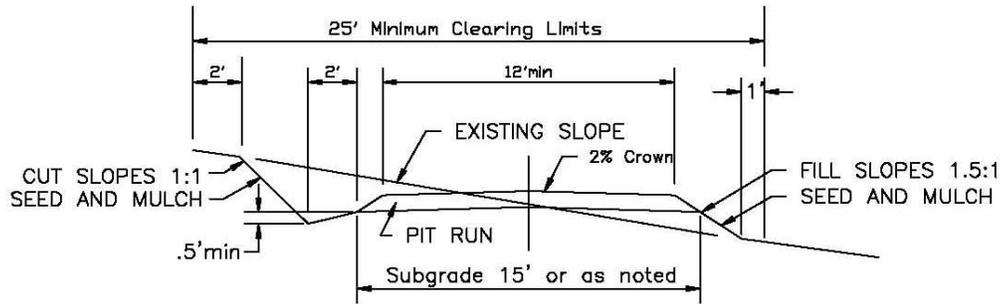
FR 141 Mudlick (Level C)

Station	Road Log/Work Description (Field Review 12/11/12)
0+00	Intersection with FR 110 (station 0+00)
52+15 - 108+75	Recondition roadbed see TYPICAL RECONDITION SECTION , perform (medium) roadside brushing see TYPICAL BRUSHING DETAIL
52+15 - 108+75	Apply 4" DSA limestone, including all turnouts and road widening. Road width varies from 14' to 16'
52+15	Intersection with FR 120, apply 46 tons DSA limestone for intersection widening
53+20	Reconstruct turnout right, apply 24 CY pit run
53+65	Remove 22" x 13" x 36' CMPA, install 18" x 36' CMP, apply 12 CY pit run, clean outlet
55+65	Remove 18" x 38' CMP, install 18" x 38' CMP, apply 12 CY pit run, clean outlet (debris/logs)
57+80	Remove 18" x 34' CMP, install 18" x 36' CMP, apply 12 CY pit run
60+60	Remove 18" x 44' CMP, install 18" x 44' CMP, apply 12 CY pit run, road width is 14'
61+95	Turnout right
62+80	Remove 22" x 13" x 36' CMPA, install 18" x 36' CMPA, apply 12 CY pit run
66+75	Reconstruct turnout right to 150' standard length and 10' width, apply 24 CY pit run
66+90 - 70+65	Roadway ditching, left (toe of cut slope)
66+90	60" x 46" x 36' CMPA
67+75 - 69+25	Construct turnout right, cut and remove all impacted trees and stumps, install 150' of filter sock, add 222 CY of borrow, apply 24 CY pit run, apply 23 tons DSA limestone
69+25	Install 18" x 30' CMP, apply 12 CY pit run, construct 20' outlet ditch, place 5 tons R-4 riprap at outlet (field locate), road width is 15'
69+60	Reconstruct turnout left, apply 36 CY pit run, roadway ditching, move ditch to toe of cut slope (4' west)
70+65	Remove 18" x 34' CMP, install 18" x 36' CMP, apply 12 CY pit run
71+75 - 73+25	Construct turnout right, cut and remove all impacted trees and stumps, excavate 24 CY of waste, install 150' of filter sock. Apply 222 CY borrow material utilizing cut material from station 9+50 and 23+50, apply 24 CY pit run, apply 23 tons DSA limestone

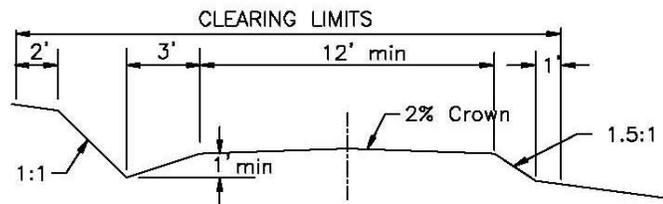
74+95 -	76+95	Roadway ditching, move ditch 3' west (toe of cut slope)
74+95		Remove 18" x 36' CMP, install 18" x 36' CMP, apply 12 CY pit run
76+95	<u>Site #2</u>	Reshape turnout to build 3 parking spaces. Construct 150' turnout, prior to placement of pit run cut/remove 5 (2 ash and 3 birch) trees and remove tops (pay item 20102) to extend turnout, construct 50' walkway to campsite. Construct retaining wall in back of turnout need approximately 50 oversize stones (see SPS 20110), stones are available at pit or along FR 259. Apply 144 CY of pit run, apply 23 tons DSA limestone. *** Install 3 mil HDPE (100 feet) composite sock fabric around worksite (pay item 15713)
77+90 -	83+50	Roadway ditching, move ditch right 2' west (toe of cut slope)
77+90		Remove 18" x 36' CMP, install 18" x 38' CMP, apply 12 CY pit run, place outlet on natural ground
80+40		Remove 22"x 13"x 36' CMPA, install 18"x 36' CMP, apply 12 CY pit run (spring)
81+75		Remove 18" x 32' CMP, install 18" x 32' CMP, apply 12 CY pit run
83+00		Install 18" x 30' CMP, apply 12 CY pit run, place 3 tons R- 4 riprap at outlet
83+50 -	85+00	Construct turnout left, cut and remove impacted trees and stumps, 185 CY of unclassified excavation, 1½:1 backslope, apply 24 CY pit run, apply 23 tons DSA limestone
85+10		Remove 18" x 28' CMP, install 18" x 32' CMP, apply 12 CY pit run, place 5 tons R- 4 riprap at outlet (spring), road width is 16'
86+60		Remove 18"x 30' CMP, install 18"x 32' CMP, apply 12 CY pit run
87+95		Remove 18"x 30' CMP, install 18" x 34' CMP, apply 12 CY pit run (spring), shape cut slope to drain existing water flow into pipe inlet
89+25		Remove 18" x 38' CMP, install 35" x 24" x 40' CMPA, apply 12 CY pit run, place 5 tons R- 4 riprap at outlet (spring)
90+75		Turnout left
92+35		Remove 22" x 13" x 38' CMPA, install 18" x 40" CMP, apply 12 CY pit run
93+85	<u>Site #1</u>	Dispersed campsite, cut/remove two trees (sugar maple and cherry) on campsite, cut small brush toward south end for parking, provide for two cars. Slope parking lot to let water drain away from campsite. Apply 24 CY of pit run and 23 tons of DSA limestone. ***Install 3 mil HDPE (60 feet) composite sock fabric around worksite (pay item 15713)
95+10 -	99+45	Roadway ditching, move ditch to toe of cut slope

95+10	Remove 18" x 36' CMP, install 57" x 38" x 40' CMPA, align with stream, apply 96 CY pit run, move inlet upstream 4', cut/remove 3 trees at inlet, lay inlet slope flatter place 10 tons R- 4 riprap on slope and inlet. Forest Service inspector will assist with layout and approve prior to CMPA installation.
96+45 - 97+65	Apply 6" pit run surfacing (road width is 16')
96+45	Remove 18" x 30' CMP, install 18" x 34' CMP, apply 12 CY pit run, apply 5 tons R- 4 riprap at outlet
97+65	Remove 18" x 38' CMP, install 18" x 38' CMP, apply 12 CY pit run, remove existing half round culvert in leadoff ditch, prepare outlet ditch for 10 tons of R- 4 riprap (spring), cut 3 dead trees right
97+75 - 99+25	Construct turnout left (cut side), excavate 370 CY of unclassified material, utilize this material for turnout construction at stations 3+50, 35+50, and 39+50. Construct 1½:1 backslope to facilitate re-vegetation, apply 24 CY pit run, apply 23 tons DSA limestone
99+45 - 102+90	Roadway ditching, move ditch 4' towards cut slope (left), see special project specification 20430
99+45	Remove 18" x 32' CMP, install 18" x 32' CMP, apply 12 CY pit run, maintain existing half round culverts in leadoff ditch (spring)
101+25	Install 18" x 30' CMP on left forward skew, apply 12 CY pit run, construct ditch block right, apply 5 tons R- 4 riprap at outlet
102+90	Remove 18" x 32' CMP, install 18" x 36' CMP, apply 12 CY pit run, apply 5 tons R- 4 riprap at outlet (road width 15')
105+25	Construct turnout right (150'), install 150' filter sock, cut and remove all impacted trees and stumps, 24 CY waste excavation, add 108 CY borrow for turnout fill, apply 24 CY pit run surfacing, apply 23 tons DSA limestone
105+40	Remove 18" x 36' CMP, install 18" x 40' CMP, apply 12 CY pit run, place 5 tons R- 4 riprap at outlet
105+70	Camp Cornplanter entrance road. (To be obliterated by others)
108+25	Road number sign left
108+60	Replace stop sign right
108+75	Intersection with FR 262 Longhouse Scenic Drive, end of road reconditioning and DSA limestone

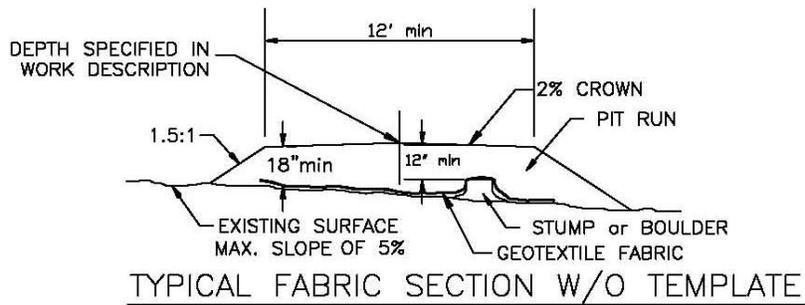
Roadbed Details



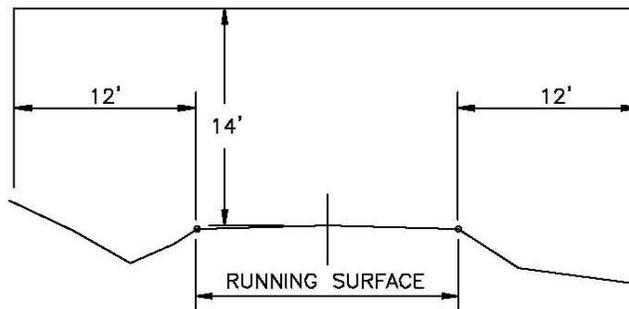
TYPICAL CONSTRUCTION SECTION



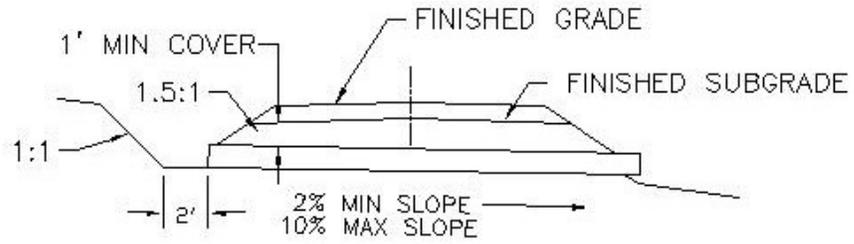
TYPICAL RECONDITION SECTION



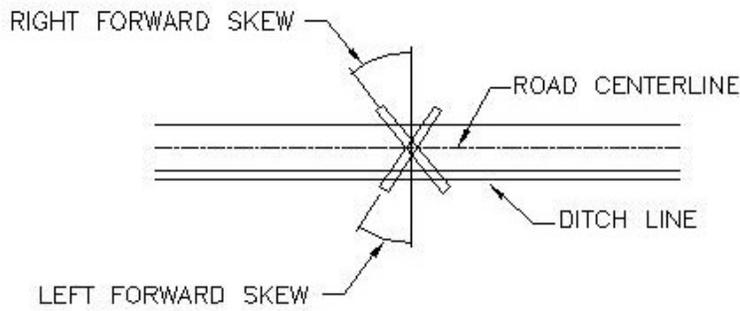
TYPICAL FABRIC SECTION W/O TEMPLATE



ROADSIDE BRUSHING DETAIL

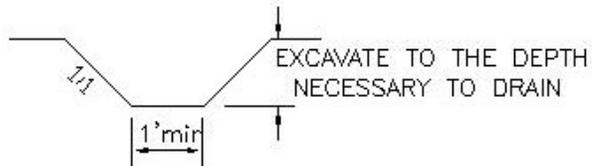


CULVERT SECTION

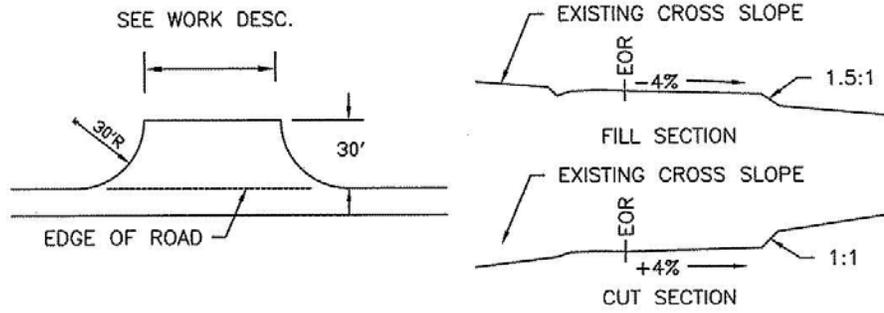


SKEW DETAIL

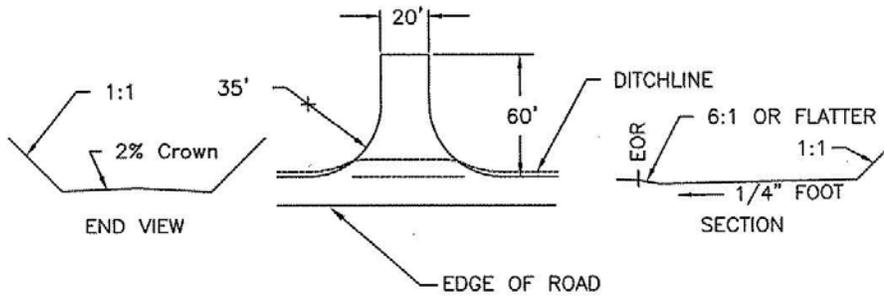
NOTE: Field locate ditch to minimize new clearing



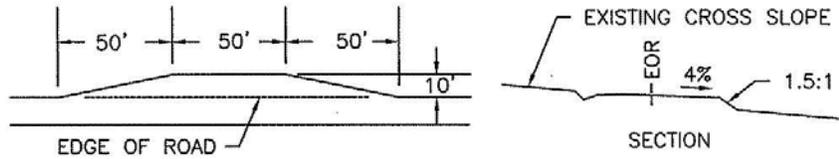
OUTLET/LEAD OFF DITCH SECTION



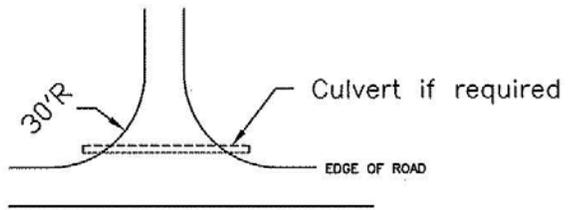
PARKING LOT DETAIL



TURNAROUND DETAIL



TURNOUT DETAIL



INTERSECTION DETAIL

GENERAL NOTES

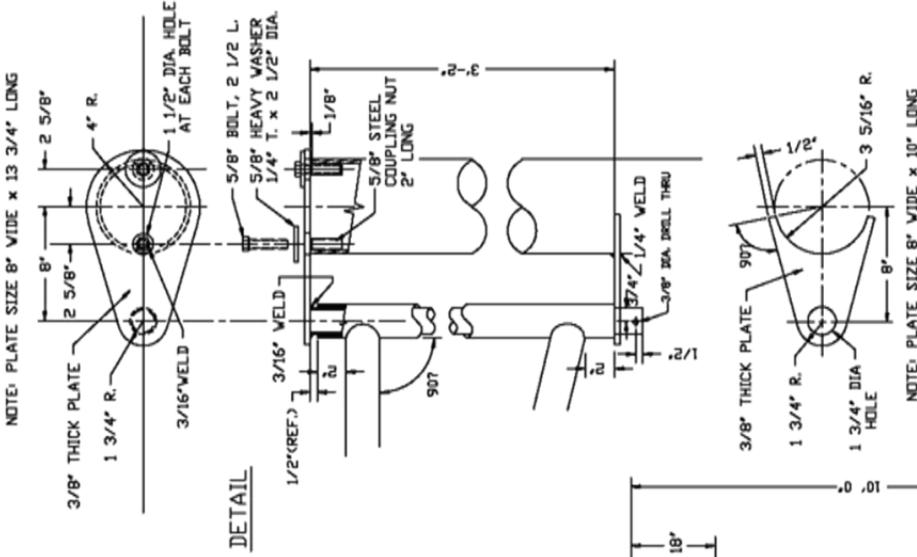
- ALL STEEL SHALL BE PAINTED WITH (2) COATS OF IRON OXIDE RED PRIMER AND (2) COAT OF WALNUT BROWN PAINT); FED. STANDARD 595 A PAINT NO. 10140 (EXCEPT PIVOT TUBE)
- ALL STEEL SHALL BE NEW MATERIAL
- WELD ALL CROSS ARM ASSEMBLY JOINTS WITH 3/16" FILLETS ALL AROUND ALL WELDS ON GATE ASSEMBLY SHALL BE STRUCTURALLY 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

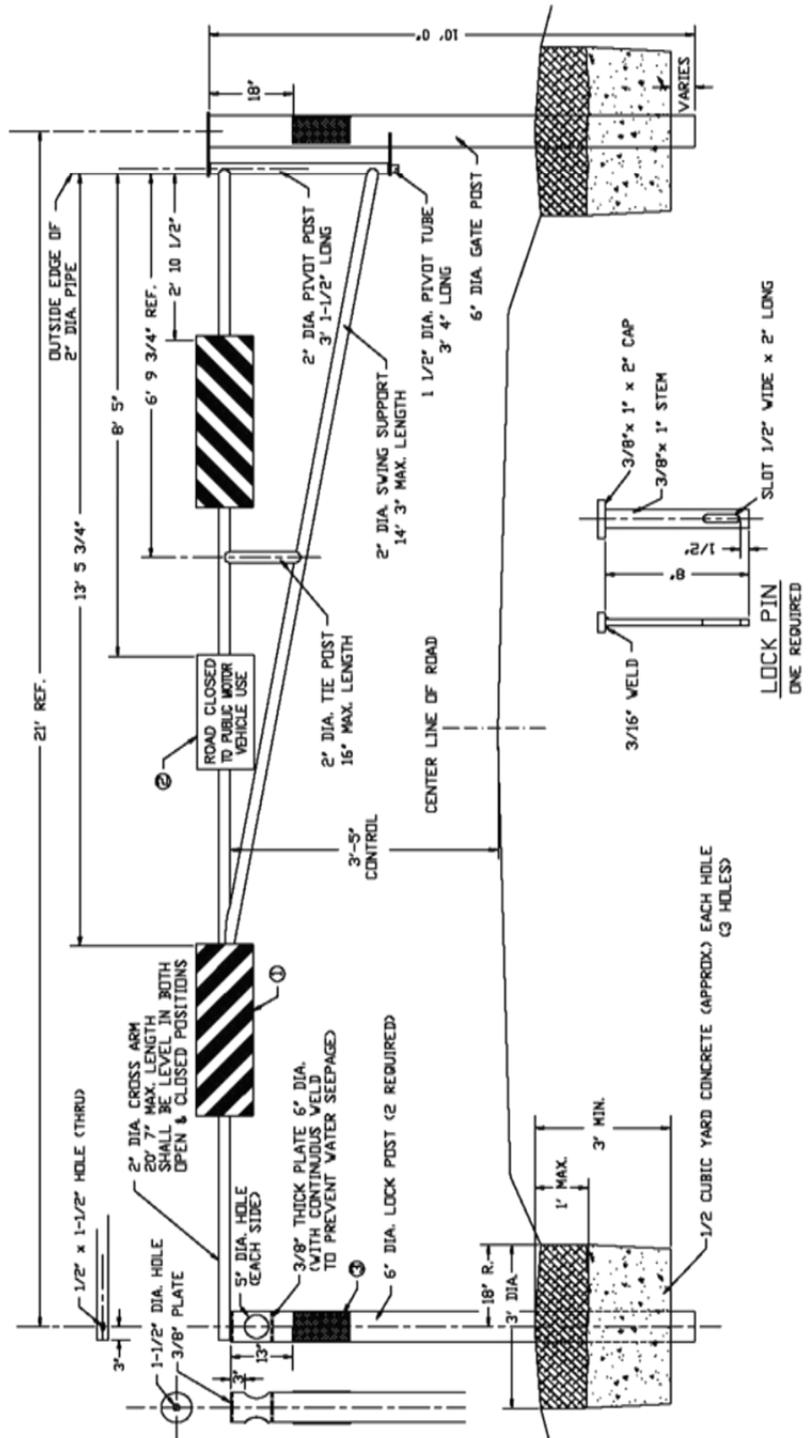
- (1) L-R AND (2) R-R TYPE 1 BARRICADE MARKERS - RED ON WHITE - 12" x 36"
- (3) ROAD CLOSED TO PUBLIC MOTOR VEHICLE USE - YELLOW (REF. ELECTRIFIED) 6" x 12"
- (4) TYPE 2 OBJECT MARKERS (OM-2-B) - YELLOW (REF. ELECTRIFIED) 6" x 12"
- (5) ON GATE POSITION LOCK POST FACED TO ENCLOSING TRAFFIC
- (6) ON OPEN POSITION LOCK POST FACED BY THE FOREST SERVICE AND INSTALLED BY THE CONTRACTOR.

ESTIMATED QUANTITIES

MATERIAL	QUANTITY (LF)	REMARKS
1-1/2" DIA. PIPE (NDMS)	3' 4"	PIVOT TUBE
2" DIA. PIPE (NDMS)	39' 4"	CROSS ARM ASSEMBLY
6" DIA. PIPE (NDMS)	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. MARKING, JOHNSON, EMBLID-9/27/89
DRN. JOHNSON & RIGALLO - 12/89
NOT TO SCALE



Pit Development Plan

Pit run for this project will come from the existing pit on FR 110A. Additional money has been allocated in the pit and quarry development bid item to re-establish FR 110A as the pit is expanded in that direction.

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.

SCHEDULE OF ITEMS, SPECIFICATIONS & DRAWINGS FOR SPECIFIED ROADS

I. Road Summary	1 page
II. Schedule of Items	1 page
III. Specification List and Special Project Specifications	35 pages
IV. Road Plans: Coon Run Stewardship <u>Project No. 8</u>	9 pages

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Road Summary

SPECIFIED ROADS

a. Description of Work:

Construction: FR 259 Dispersed Recreation Parking Sites

Scope of work: Construction of 2 dispersed recreation parking sites by upgrading 2 cleared locations work should include: reconditioning, Type 2 Al coated culvert installation, boundary rock placement and commercial stone.

b. Construction Costs:

<u>Road No.</u>	<u>Dispersed Camping/Parking</u>	<u>Estimated Road Cost</u>
259	2 sites	

Completion dates: 9/30/2015

Schedule of Items

FR 259 Dispersed Recreation Parking Sites

Pay Item	Description	Pay Unit	Estimated Quantity	Engineer's Estimate Unit Price	Engineer's Extended Total
20120	FR 259 dispersed site reconstruction (2) (Lump Sum)	LSQ	1		
TOTAL					

Specification List

The following specifications will be used for this contract:

Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects – FP-03 U.S. Customary Units. FP-03 is available on the internet at the following site: <http://flh.fhwa.dot.gov/resources/pse/specs/>

Supplemental Specifications – These specifications were prepared by the Forest Service and are a supplement to or change the FHWA specifications. These are designated SS.

Special Project Specifications – Are specifications prepared on the Allegheny National Forest and pertain to Pennsylvania Department of Transportation nomenclature. These are designated SPS.

Preface

Preface_wo_03_15_2004_m

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

101 - Terms, Format, and Definitions

101.00_nat_us_07_25_2005

101.01_nat_us_01_22_2009

101.01 Meaning of Terms

Delete all references to the TAR (Transportation Acquisition Regulations) in the specifications.

101.03_nat_us_06_16_2006

101.03 Abbreviations.

Add the following to (a) Acronyms:

AFPA	American Forest and Paper Association
MSHA	Mine Safety and Health Administration
NIST	National Institute of Standards and Technology
NESC	National Electrical Safety Code
WCLIB	West Coast Lumber Inspection Bureau

.

Add the following to (b) SI symbols:

mp	Milepost
ppm	Part Per Million

101.04_nat_us_03_29_2007

101.04 Definitions.

Delete the following definitions and substitute the following:

Bid Schedule--The Schedule of Items.

Bridge--No definition.

Contractor--The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the "purchaser".

Culvert--No definition.

Right-of-Way--A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

Add the following:

Adjustment in Contract Price--“Equitable adjustment,” as used in the Federal Acquisition Regulations, or “construction cost adjustment,” as used in the Timber Sale Contract, as applicable.

Change--“Change” means “change order” as used in the Federal Acquisition Regulations, or “design change” as used in the Timber Sale Contract.

Design Quantity--“Design quantity” is a Forest Service method of measurement from the FS-96 *Forest Service Specifications for the Construction of Roads and Bridges*. Under these FP specifications this term is replaced by the term “Contract Quantities”.

Forest Service--The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line--A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road--Temporary construction access built along the route of the project.

Purchaser--The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

Protected Streamcourse--A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

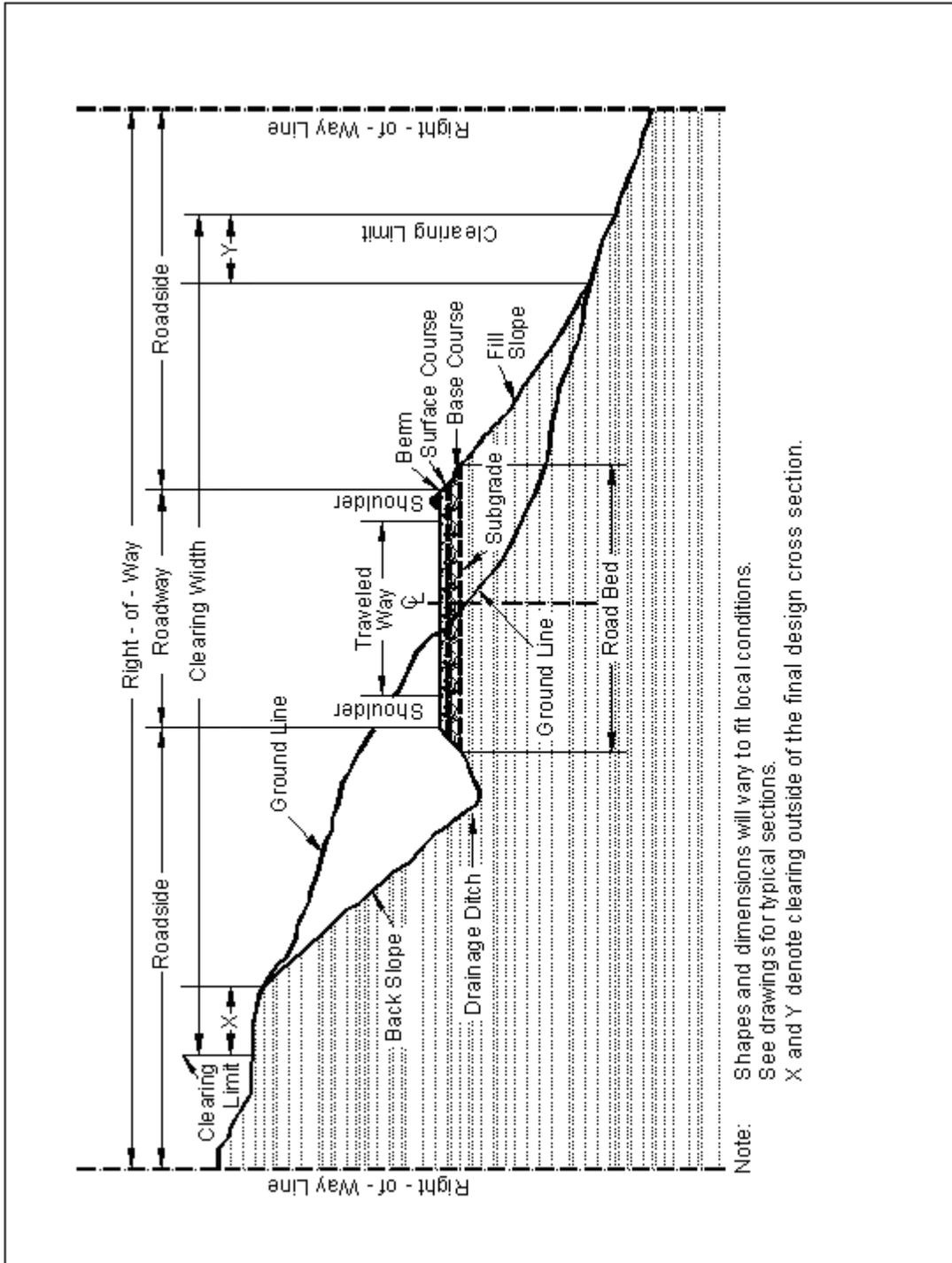
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

Schedule of Items--A schedule in the contract that contains a listing and description of construction items, quantities, units of measure, unit price, and amount.

Utilization Standards--The minimum size and percent soundness of trees described in the specifications to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

Figure 101-1—Illustration of road structure terms.



102 - Bid, Award, and Execution of Contract

102.00_nat_us_02_16_2005

102 Bid, Award, and Execution of Contract

Delete Section 102 in its entirety.

103 - Scope of Work

103.00_nat_us_02_16_2005

Deletions

Delete all but subsection 103.01 Intent of Contract.

104 - Control of Work

104.00_nat_us_06_16_2006

Deletions

Delete Sections 104.01, 104.02, and 104.04.

104.06_nat_us_02_17_2005

Add the following subsection:

104.06 Use of Roads by Contractor

The Contractor is authorized to use roads under the jurisdiction of the Forest Service for all activities necessary to complete this contract, subject to the limitations and authorizations designated in the Road Order(s) or described in the contract, when such use will not damage the roads or national forest resources, and when traffic can be accommodated safely.

105 - Control of Material

105.02_nat_us_01_18_2007

105.02 Material Sources.

105.02(a) Government-provided sources.

Add the following:

Comply with the requirements of 30 CFR 56, subparts B and H. Use all suitable material for aggregate regardless of size unless otherwise designated. When required, re-establish vegetation in disturbed areas according to section 625.

105.05_nat_us_05_12_2004

105.05 Use of Material Found in the Work.

Delete 105.05 (a) and (b) and the last sentence of the second paragraph and substitute the following:

Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. The Government is not obligated to make reimbursement for the cost of producing these materials.

106 - Acceptance of Work

106.07_nat_us_05_11_2004

106.07 Delete

Delete subsection 106.07.

107 - Legal Relations and Responsibility to the Public

107.05_nat_us_05_11_2004

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.06_nat_us_06_16_2006

107.06 Contractor's Responsibility for Work.

Delete the following from the first paragraph.

“except as provided in Subsection 106.07”.

107.09_nat_us_06_16_2006

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

107.10_nat_us_06_16_2006

107.10 Environmental Protection.

Add the following:

Design and locate equipment repair shops, stationary refueling sites, or other facilities to minimize the potential and impacts of hazardous material spills on Government land.

Before beginning any work, submit a Hazardous Spill Plan. List actions to be taken in the event of a spill. Incorporate preventive measures to be taken, such as the location of mobile refueling facilities, storage and handling of hazardous materials, and similar information. Immediately notify the CO of all hazardous material spills. Provide a written narrative report form no later than 24 hours after the initial report and include the following:

- Description of the item spilled (including identity, quantity, manifest number, and other identifying information).
- Whether amount spilled is EPA or state reportable, and if so whether it was reported, and to whom.
- Exact time and location of spill including a description of the area involved.
- Containment procedures.
- Summary of any communications the Contractor had with news media, Federal, state and local regulatory agencies and officials, or Forest Service officials.
- Description of clean-up procedures employed or to be employed at the site including final disposition and disposal location of spill residue.

When available provide copies of all spill related clean up and closure documentation and correspondence from regulatory agencies.

The Contractor is solely responsible for all spills or leaks that occur during the performance of this contract. Clean up spills or leaks to the satisfaction of the CO and in a manner that complies with Federal, state, and local laws and regulations.

108 - Prosecution and Progress

108.00_nat_us_02_16_2005

108 Delete.

Delete Section 108 in its entirety.

109 - Measurement and Payment

109.00_nat_us_02_17_2005

109 Deletions

Delete the following entire subsections:

109.06 Pricing of Adjustments.

109.07 Eliminated Work.

109.08 Progress Payments.

109.09 Final Payment.

109.02_nat_us_06_16_2006

109.02 Measurement Terms and Definitions.

(b) Contract quantity.

Add the following:

Contract quantities will be adjusted only when there are errors in the original design of 15% or more.

Change the following:

“(b) Cubic yard” to “(c) Cubic yard”.

Add the following definition:

(p) Thousand Board Feet (Mbf). 1,000 board feet based on nominal widths, thickness, and extreme usable length of each piece of lumber or timber actually incorporated in the job. For glued laminated timber, 1,000 board feet based on actual width, thickness, and length of each piece actually incorporated in the job.

151 - Mobilization

151.03_nat_us_08_05_2005

151.03 Payment

Delete the entire subsection and add the following:

151.03 Payment

Mobilization is considered an indirect cost of this contract and will not be compensated as a separate work item.

155 - Schedules for Construction Contracts

155.00_nat_us_05_11_2004

155 Delete.

Delete Section 155 in its entirety.

201 - Clearing and Grubbing

201.00_nat_us_08_05_2009

201.02 Material:

Delete Tree wound dressing material reference.

201.03 General.

Delete the last sentence.

201.04 Clearing.

Delete the last sentence of (d).

201.01 Description

Replace with the following

This work consists of clearing and grubbing within clearing limits and other designated areas.

201.04_nat_us_03_03_2005

Construction Requirements

201.04 Clearing.

Add the following:

Utilization standards for merchantable timber are listed below. Fall and buck merchantable material into lengths not to exceed 40 feet. Pieces (logs) meet utilization standards when such pieces would have met Utilization Standards if bucking lengths were varied to include such material.

Minimum Utilization Standards

Length	Diameter (Inside Bark) at Small End	33-1/3% Net Scale in
8 feet	9.6 inches	% of Gross Scale

201.04 Clearing. (c)

Delete paragraph (c) and replace with the following:

(c) In areas outside the excavation, embankment, and slope rounding limits, cut stumps to within 12 inches or one-third of the stump diameter of the ground, whichever is higher, measured on the side adjacent to the highest ground. For timber sales, stump heights will meet the requirements of the Timber Sale contract.

201.04 Clearing.

Delete subsection (d) and replace with the following:

(d) Do not cut vegetation less than 3 feet tall and less than 3 inches in diameter, that is within the clearing limits but beyond the roadway and not in a decking area, and that does not interfere with sight distance along the road.

Add the following:

(e) Trim branches of remaining trees or shrubs to give a clear height of 14 feet above the roadbed unless otherwise indicated. Trim tree limbs as near flush with the trunk as practicable.

(f) Remove brush from log decks. Deck logs so that logs are piled parallel to one another; can be removed by standard log loading equipment; will not damage standing trees; will not interfere with drainage, and will not roll. Keep logs in log decks free of brush and soil.

201.04 Clearing.

Add the following:

When marked in advance, remove dead trees over 6 inches in diameter measured at 12 inches above the ground that lean toward the road and are tall enough to reach the roadbed.

201.06 Disposal.

Delete the first sentence of this subsection and substitute the following:

Merchantable timber removed from Forest Service land is subject to the Forest Resources Conservation and Shortage Relief Act of 1990 (PL 101-382; 104 Stat. 714-726; 16 USC 620 et. seq.). Do not export timber from the United States or use in direct or indirect substitution for unprocessed timber exported from the United States, from private lands by Purchaser, or any person as defined in Section 493 (16 USC 620e) of the Act.

Unless Forest Service determines that circumstances warrant a written waiver or adjustment, (1) hammer brand all products on both ends with an assigned contract brand before removal from the project site, (2) hammer brand each product exempt from domestic processing on both ends with an exempt brand registered for use on exempt logs from National Forest, and (3) paint all domestic processing products on both ends with 2 inch circle of yellow paint according to Interim Specification 2400-400 (available upon request). Paint or brand products before removing them from project site unless approved by the CO. Brands and yellow paint must remain on logs until they are processed.

Contractor may remanufacture logs into different log lengths as approved. Repaint or rebrand all remanufactured pieces. Pay all surveillance costs except that Forest Service may waive such payment if such costs are minor and part of normal remanufacturing operations.

SPS 20120 - Dispersed Site Reconstruction - Special Project Specification

20120.01 Description

This work shall consist of construction two dispersed recreation sites located along FR 259, located ½ mile south of FR 160.

20120.02 Material

- Native rock minimum size 4' x 3' x 1½', quantity 15 rocks.
- Two 18 inch corrugated metal pipes 24 feet long each. 184 tons of AASHTO #57 aggregate.

20120.03 Construction Requirements

Clear and grub site for construction of a 2 car parking area.

- Installation of culverts in FR 259 ditchline.
- Placement of 4 loads of AASHTO #57 and compaction at each site.
- Placement of boundary rock around parking area.
- Mobilization of equipment to the jobsite, seeding and mulching of disturbed ground.
- All work shall be done with Forest Service inspector on-site.

20120.04 Payment

Payment for this work will be paid under section 20120 listed in the schedule of items, lump sum quantity.

230 - Roadside Brushing

230.00_0114_us_08_04_2005

Description

230.01 Work. This work consists of removing all vegetative material including limbs, residual slash, live roadside brush, and small trees within the brushing limits designated on the plans.

Construction

230.02 Brushing. Cut all brush and small trees (6 inches diameter, or less, at the point of cut) inside the brushing limits and outside the roadbed no higher than 4 inches above ground level (6 inches for machine brushing). If rocks or other obstructions are encountered, cut no higher than 6 inches above the obstruction. Limb live trees with a diameter larger than 6 inches to provide a clear height of 14 feet above the road surface.

Cut all brush and trees located on the roadbed as nearly flush to the road surface as possible so stumps will not become a hazard to vehicle tires.

230.03 Windfalls. Limb windfalls lying within or across the brushing limits, cut off at the top of the existing cut slope or 5 feet from the shoulder on the fill slope. Dispose of windfall material as slash.

230.04 Road Junctions. Do not deposit brushing debris on the roadway of adjoining roads.

230.05 Slash Treatment. Scatter slash outside the brushing limits without damaging residual trees. Slash is defined as any material that has a length greater than 36 inches or a diameter greater than 2 inches at any point. Do not deposit material in streams, streambeds, culvert inlets or outlets, drainage ways, or cattle guards.

230.06 Acceptance. Roadside brushing will be evaluated under Subsection 106.02.

Measurement

230.07 Method. Measure the Section 230 items listed in the bid schedule according to Subsection 109.02 and the following.

Linear measurements will be horizontal along the road centerline.

Quantities will be the number of miles (or stations) and fractions thereof along the road centerline.

Payment

230.08. The accepted quantities will be paid at the contract price per unit of measurement for the section 230 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this section. See Subsection 109.05.

301 - Untreated Aggregate Courses

301.00_nat_us_03_03_2005

301 Title Change.

Change the title to: **Section 301 Aggregate Courses**

301.01_nat_us_03_03_2005

301.01 Work.

Add the following:

Work includes producing aggregate by pit-run, grid rolling, screening, or crushing methods, or placing Government-furnished aggregate. Work may include additive mineral filler, or binder.

301.02_nat_us_05_16_2005

301.02 Material.

Add the following:

Bentonite	725.30
Calcium Chloride Flake	725.02
Lignon Sulfonate	725.20
Magnesium Chloride Brine or Calcium Chloride Liquid	725.02

301.03_nat_us_09_14_2005

301.03 General.

Add the following:

Written approval of the roadbed is required before placing aggregate.

For pit run or grid-rolled material, furnish material smaller than the maximum size. No gradation other than maximum size will be required for pit-run or grid-rolled material. For grid rolling, use all suitable material that can be reduced to maximum size. After processing on the road, remove all oversize material from the road and dispose of it as directed by the CO.

Provide additives or binder, if required, at the proportions specified.

Develop and use Government furnished sources according to Section 105.

If the aggregate is produced and stockpiled before placement, handle and stockpiled according to Section 320. Establish stockpile sites at locations approved. Clear and grub stockpile sites according to Section 201.

301.04_nat_us_03_03_2005

301.04 Mixing and Spreading.

Delete the first sentence of the first paragraph and add the following:

Ensure that aggregate and any required additives, water, mineral filler, and binder are mixed by the specified method except, if crushed aggregate products are being produced and mineral filler, binder, or additives are required, uniformly blend following crushing. Control additive proportions to 0.5 percent dry weight.

(a) Stationary Plant Method. Mix the aggregate with other required materials in an approved mixer. Add water during the mixing operation in the amount necessary to provide the moisture content for compacting to the specified density. After mixing, transport the aggregate to the jobsite while it contains the proper moisture content, and place it on the roadbed or base course using an aggregate spreader.

(b) Travel Plant Method. After placing the aggregate for each layer with an aggregate spreader or windrow-sizing device, uniformly mix it with other required materials using a traveling mixing plant. During mixing, add water to provide the necessary moisture content for compacting.

(c) Road Mix Method. After placing the aggregate for each layer, mix it with other required materials at the required moisture content until the mixture is uniform throughout. Mix aggregate, water, and all other materials until a uniform distribution is obtained.

Spread the aggregate in a uniform layer, with no segregation of size, and to a loose depth that will provide the required compacted thickness.

When placing aggregate over geotextile, place aggregate in a single lift to the full depth specified.

Route and distribute hauling and leveling equipment over the width and length of each layer.

301.05_nat_us_05_17_2005

301.05 Compacting

Delete and replace with the following:

Compact each layer full width. Roll from the sides to the center, parallel to the centerline of the road. Along curbs, headers, walls, and all places not accessible to the roller, compact the material with approved tampers or compactors.

Compact the aggregate using one of the following methods as specified:

Compaction A. Operating spreading and hauling equipment over the full width of the travelway.

Compaction B. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction C. Moisten or dry the aggregate to a uniform moisture content between 5 and 7 percent based on total dry weight of the mixture. Operate rollers and compact as specified in Subsection 204.11(a)(1).

Compaction D. Compact to a density of at least 95 percent of the maximum density, as determined by AASHTO T 99, method C or D.

Compaction E. Compact to a density of at least 96 percent of the maximum density, as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

Compaction F. Compact to a density of at least 95 per-cent of the maximum density, as determined by AASHTO T 180, method C or D.

Compaction G. Compact to a density of at least 100 percent of the maximum density as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

For all compaction methods, blade the surface of each layer during the compaction operations to remove irregularities and produce a smooth, even surface. When a density requirement is specified, determine the in place density and moisture content according to AASHTO T 310 or other approved test procedures.

301.06_nat_us_03_03_2005

301.06 Surface Tolerance.

Add the following:

Thickness and Width requirements:

The maximum variation from the compacted specified thickness is ½ inch. The compacted thickness is not consistently above or below the specified thickness and the average thickness of 4 random measurements for any ½ mile of road segment is within + ¼ inch of the specified thickness.

The maximum variation from the specified width will not exceed +12 inches at any point. The compacted width is not consistently above the specified width and the average of any four random measurements along any ½ mile of road segment is within +4 inches of the specified width.

301.09 Measurement.

Replace the second paragraph with the following:

Measure aggregate by cubic yard compacted in place when payment is by contract quantities.

301.10 Payment

Delete the following:

adjusted according to Subsection 106.05

303 - Road Reconditioning

303.00_01_us_10_11_2006

Delete Section 303 in its entirety and replace with the following.

Description

303.01 This work consists of reconditioning ditches, shoulders, roadbeds, parking areas, turnouts, approach road intersections, cattleguards, asphalt surfaces and aggregate surfaces. Construct outslopes, clean and maintain all roadbed drainage structures when shown on the plans.

Material

303.02 Conform to the following Subsection:

Water 725.01

Construction Requirements

303.03 Ditch Reconditioning. Remove all slide material, sediment, vegetation, and other debris from the existing ditches and culvert inlets and outlets. Reshape ditches and culvert inlets and outlets to achieve positive drainage and a uniform ditch width, depth, and grade. Dispose of waste as shown on the plans.

303.04 Shoulder Reconditioning. Repair soft and unstable areas according to Subsection 204.07. Remove all slide material, vegetation, and other debris from existing shoulders including shoulders of parking areas, turnouts, and other widened areas. Dispose of waste as shown on the plans.

303.05 Roadbed Reconditioning Repair soft and unstable areas according to Subsection 204.07. Remove all organic, deleterious material larger than 6 inches from the top 6 inches of subgrade. Dispose of waste as shown on the plans. Scarify, rip and shape the traveled way and shoulders at locations and to the depth and width designated on the plans. Remove surface irregularities and shape to provide a uniform surface.

Dispose of rock larger than 4 inches brought to the surface during scarification in areas designated on the plans.

For portions of roads not requiring scarification, the roadbed may contain rocks larger than 4 inches provided they do not extend above the finished roadbed surface. Reduce in

place or remove rock extending above the finished roadbed surface. Dispose of removed rock in areas designated on the plans.

Compact using the following method as specified:

- (a) Compaction A. Operate equipment over the full width.
- (b) Compaction B. Operate rollers over the full width of each layer until visual displacement ceases, but not fewer than three complete passes. Use rollers that meet the following requirements:
 - (1) Steel wheeled rollers, other than vibratory, capable of exerting a force of not less than 250 pounds per inch of width of the compression roll or rolls.
 - (2) Vibratory steel wheeled rollers equipped with amplitude and frequency controls with a minimum weight of 6 tons, specifically designed to compact the material on which it is used.
 - (3) Pneumatic-tired rollers with smooth tread tires of equal size that will provide a uniform compacting pressure for the full width of the roller and capable of exerting a ground pressure of at least 80 psi.

303.06 Aggregate Surface Reconditioning. Repair soft and unstable areas to the full depth of the aggregate surface and according to Subsection 204.07. Scarify to the depth of the aggregate surface or to a depth of 8 inches, whichever is less, and remove surface irregularities. Reshape, finish, and compact the entire aggregate surface according to Section 308.

303.07 Roadway Reconditioning. Perform all the applicable work described in Subsections 303.03 through 303.06.

Maintain the existing cross slope or crown unless otherwise shown on the plans. Establish a blading pattern that will retain the surfacing on the roadbed and provide a through mixing of the materials within the completed surface width.

Blade and shape the subgrade for both surfaced and unsurfaced roads when moisture content is suitable for compaction.

303.08 Pulverizing. Scarify the surface to the designated depth and width. Pulverize all material to a size one and one half times the maximum sized aggregate or to 1½ inches, whichever is greater. Mix, spread, compact, and finish the material according to Section 301.

303.09 Acceptance. See Table 303-1 for sampling and testing requirements. Road reconditioning work will be evaluated under Subsections 106.02 and 106.04.

Measurement

303.10 Measure the Section 303 items listed in the Schedule of Items according to Subsection 109.02 and the following as applicable.

Measure ditch reconditioning and shoulder reconditioning by the mile, by the station or foot horizontally along the centerline of the roadway for each side of the roadway.

Measure roadbed reconditioning, aggregate surface reconditioning, roadway reconditioning, and pulverizing by the mile, by the station, or by the square yard.

Payment

303.11 The accepted quantities will be paid at the contract price per unit of measurement for the Section 303 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

602 - Culverts and Drains

602.03_nat_us_09_06_2005

602.03 General.

Add the following:

Ensure that the final installed alignment of all pipe allows no reverse grades, and does not permit horizontal and vertical alignments to vary from a straight line drawn from center of inlet to center of outlet by more than 2 percent of pipe center length or 1.0 feet, whichever is less.

625 - Turf Establishment

625.03_nat_us_07_02_2007

625.03 General.

Delete this subsection and replace with the following:

Apply turf establishment to prepared ground or any disturbed area between April 15th and October 15th. Apply turf establishment to the areas shown on the plans or worklists within 7 days after completion of ground disturbing activities. Unless otherwise specified in writing by the CO apply turf establishment after each 1000 foot section of road has been constructed to template lines. Seeded areas damaged by construction activities shall be reseeded within 10 days of the damage. Do not seed during windy weather or when the ground is excessively wet, frozen, or snow covered.

Assure that all seed and mulch used in the work conforms to the weed free requirements of Section 713.

625.04 Preparing Seedbed.

Delete entire subsection and replace with the following:

Ensure that the surface soil is in a roughened condition favorable for germination and growth.

625.05 Watering

Delete entire subsection.

625.06 Fertilizing.

Delete entire subsection and replace with the following:

Apply fertilizer having a chemical analysis as listed below by the following methods.

(a) Dry Method. Apply the fertilizer with approved mechanical equipment. Hand operated methods are satisfactory on areas inaccessible to mechanical equipment.

(b) Hydraulic method. Use hydraulic-type equipment capable of providing a uniform application using water as the carrying agent. Add fertilizer to the slurry and mix before adding seed. Add the tracer material when designated by the CO.

Fertilizer. Apply fertilizer at the rate of 450 pounds per acre. Insure that the fertilizer meets the following chemical analysis:

<u>Nutrient</u>	<u>Percent</u>
Nitrogen, N	<u>10</u>
Phosphorus, P ₂ O ₅	<u>20</u>
Potassium, K	<u>20</u>

625.07 Seeding.

Delete the first sentence and add the following.

Apply seed mix by the following methods:

(a) Dry method. Delete the third sentence.

Add the following after subsection

(b).Seed Mix. Furnish and apply the following kinds and amounts of pure live seed from Ernst Conservation Seeds, 9006 Mercer Pike, Meadville, PA (800) 873-3221 or Fax (814) 336-5191 or www.ernstseed.com Native Right-of Way Woods Seed Mix with Annual Ryegrass-ERNMX-132-1:

<u>Type of Seed</u>	<u>Quantity of Pure Live Seed (Lbs/Acre)</u>
1. 30% Virginia Wild Rye	9
2. 20% Annual Rye Grass	6
3. 15% Shelter Switchgrass	4.5
4. 10% Creeping Red Fescue	3
5. 5% Autumn Bentgrass	3
6. 5% Fox Sedge	3
7. 5% Showy Tick Trefoil	3
8. 5% Nimble Will	3
9. 5% Tioga Deer Tongue	3

Total Seeding Rate 30lb per acre

Determine the pounds of seed to be furnished per acre by dividing the pounds of pure live seed required per acre by the product of the percent purity and percent germination.

625.08 Mulching.

Delete the entire subsection and replace with the following:

Apply Mulch within 24 hours after seeding by the following methods.

(a) Dry Method. Apply mulch with a hand spreader or a spreader utilizing forced air at a rate of 4000 pounds per acre. Anchor the mulch with an approved stabilizing emulsion tackifier at a rate of 0 gallons per acre. Do not mark or deface structure, pavements, utilities, or plant growth with tackifier.

(b) Hydraulic Method. Apply mulch in a separate application from the seed using hydraulic-type equipment according to Subsection 625.07(b).

Apply wood fiber or grass straw cellulose fiber mulch at a rate of 775 pounds per acre.

Apply bonded fiber matrix hydraulic mulch at a minimum rate of 775 pounds per acre. Apply so no hole in the matrix is greater than 0.04 inches. Apply so that no gaps exist between the matrix and the soil.

Inaccessible areas may be mulched by hand. Apply mulch uniformly over the entire disturbed area.

625.09 Protecting and Caring for Seeded Areas

Delete the first sentence and add the following:

Protect and care for seeded areas until final acceptance.

625.11 Measurement.

Delete the entire Subsection and replace with the following:

Measure the Section 625 items listed in the bid schedule according to Subsection 109.02.

651 - Development of Pits & Quarries

651.00_nat_us_03_02_2005

Description

651.01 This work consists of clearing, grubbing, stripping topsoil, removing overburden, constructing access roads, conducting restoration activities, and performing other incidental work required for pit or quarry development.

Construction Requirements

651.02 General. Submit a plan of operations according to Section 105. Perform all work in accordance with Sections 105, 201, 203, 204, 625, and 635, landscape preservation requirements, and the approved pit and quarry development plan of operations. Perform the work in accordance with MSHA 30 CFR, part 56.

651.03 Acceptance. Developing pits and quarries will be evaluated under Subsections 106.02 and 106.04.

Measurement

651.04 Measure the Section 651 items listed in the bid schedule according to Subsection 109.02.

Payment

651.05 The accepted quantities will be paid at the contract price per unit of measurement for the Section 651 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

SPS 703 - Aggregate

Add the following: **703.20 Driving Surface Aggregate**. All Driving Surface Aggregate (DSA) is to be derived from natural limestone formations. Stone is defined as rock that has been crushed; rock is defined as consolidated mineral material. For use in this program, both are restricted to that which has been mined or quarried from existing bedrock formations.

All components of the aggregate mix are to be derived from crushed parent rock material that meets program specifications for abrasion resistance, pH and freedom from contaminants. Ninety-eight percent (98%) of the fines passing the #200 sieve must be parent rock material. No clay or silt soil may be added. The amount of particles passing the #200 sieve shall be determined using the washing procedures specified in PTM No. 100.

Size: The required amount and allowed ranges, determined by weight, for various size particles are:

PASSING SIEVE	LOWER%	HIGH%
1 ½ inch	100%	
¾ inch	65%	90%
#4	30%	65%
#16	15%	30%
#200	10%	20%

LA Abrasion: The acceptable limit is measured by weight loss is "less than 40% loss". Los Angeles Abrasion test, AASHTO T-96 (ASTM C 131) shall be used to determine this property. Existing tests made for and approved by PennDOT will be accepted.

Sulfate Test: Soundness or resistance to freeze/thaw (i.e. sulfate test) is not specified for this application because a gravel road driving surface aggregate is not bound within a concrete or asphalt mix.

pH: Aggregate must be within the range of pH 6 to pH 9 as measured by EPA 9045C.

Optimum Moisture: Material is to be delivered and placed at optimum moisture content as determined for the particular source. The optimum percentage moisture is to be identified by the supplier in the bid purchasing documents. Loads with excessive moisture shall be rejected. Water draining from the tailgate, excess material sticking to the roller drum or the inability to compact the material are field indicators of excess moisture. In addition, if a load is too dry or does not have enough fines it will be rejected. Visual inspection of the load and poorly consolidated material after compactive effort are field indicators of low moisture or poor product gradation.

Transport: Tarps are to be used to cover 100% of the load's exposed surface from the time of loading until immediately before dumping. This requirement includes standing time waiting to dump.

Aggregate producers are required by the program to certify that the aggregate they deliver conforms to the program specifications. To eliminate segregation of material, stockpiling of material at jobsite will not be permitted unless authorized by COR.

The following are "Local" sources for this material:

Hawbaker - Turtlepoint, PA. 814-237-1444 or 814-642-2500

New Enterprise Stone & Lime Co. Tyrone, PA 814-695-4405

Road Preparation Specifications: The road surface to receive the aggregate should have template with crown of 2% or $\frac{1}{4}$ inch per foot. The receiving surface is to be scarified to permit knitting of the aggregate.

Driving Surface Aggregate Placement: Minimum compacted depth of four inches is to be established for driving surface. Driving Surface Aggregate is to be applied by tailgate spreading unless spreader box is specified. Material when placed shall be compacted as follows: Beginning on the lower or berm side of the crown, begin rolling and work your way to the top of the crown by overlapping the successive longitudinal passes. Do not run the roller lengthwise directly on the crown. Compaction with truck tires is not accepted. Steel wheel rollers other than vibratory shall be capable of exerting a force of not less than 250 pounds per inch of width of the compression roller or rollers. Rollers shall be self propelled with a minimum weight of 6 tons. Contractor must have certification in writing that material placed is Driving Surface Aggregate meeting this specification.

1" Minus Aggregate (DSA Gravel non limestone) Size: The required amount and allowed ranges, determined by weight, for various size particles are:

PASSING SIEVE	LOWER%	HIGH%	
1 $\frac{1}{2}$ inch	100%		
$\frac{3}{4}$ inch	65%	95%	
#4	30%	65%	LA Abrasion < 40%
#16	15%	30%	Sulfate Test - Not Applicable
#200	10%	15%	PH between 6 and 9

Material available at Glenn O. Hawbacker - Pittsfield Pit 814-563-7911

DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION 9
ALLEGHENY NATIONAL FOREST

Coon Run Stewardship Project No. 8

Dipersed Recreation Parking – 2 sites along FR 259

Bradford Ranger District
Warren 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 Southwest Reservoir 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:

Joan E. Martinez

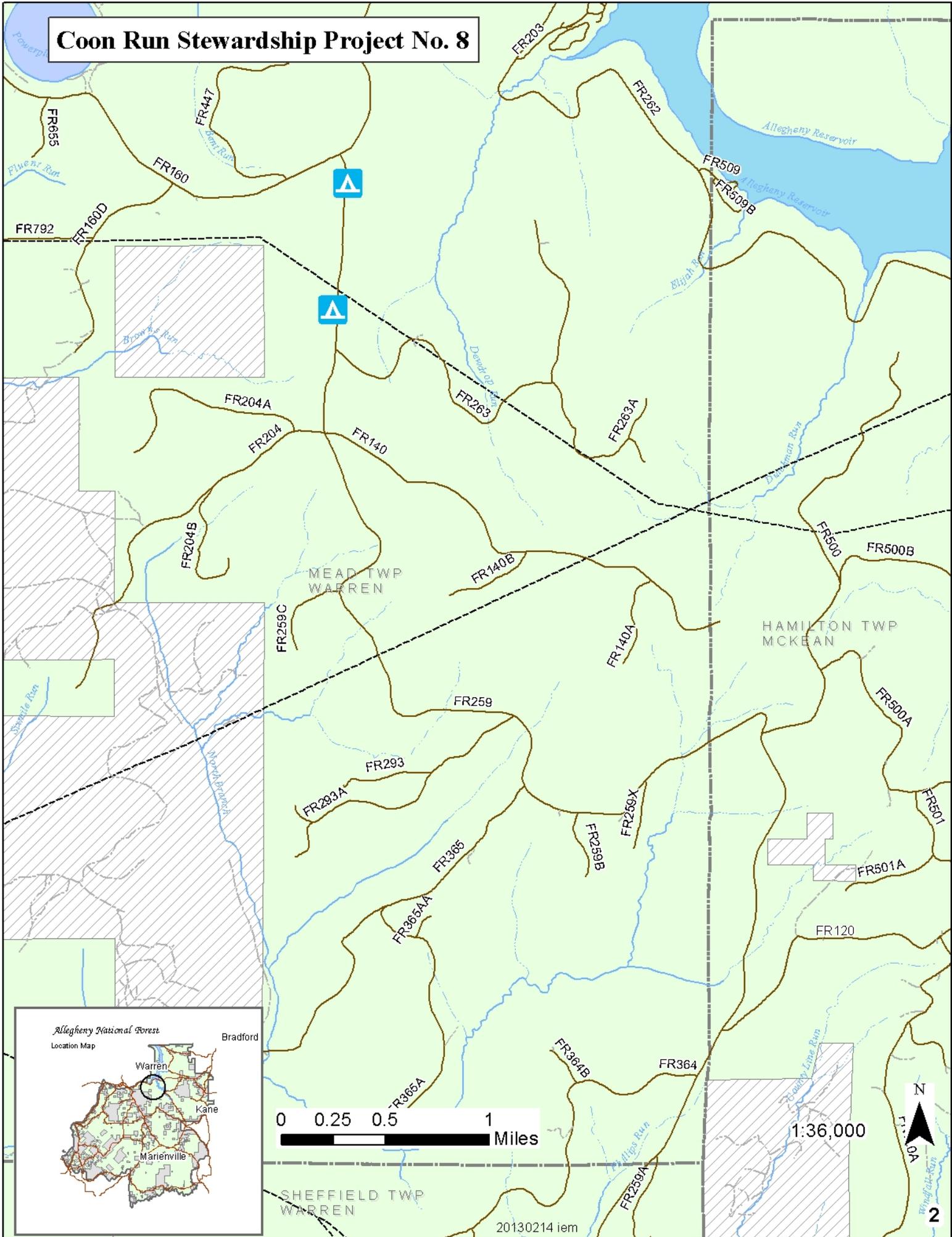
Approved By:

 2/1/2013
District Ranger Date

 2-4-2013
Forest Engineer Date

 2/4/2013
Forest Supervisor Date

Coon Run Stewardship Project No. 8



0 0.25 0.5 1 Miles

1:36,000



Schedule of Items

FR 259 Dispersed Recreation Parking Sites

Item	Description	Unit	Quantity
20120	FR 259 dispersed site reconstruction (2)	LSQ	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 CLOSED, TRUCK TRAFFIC and ROAD CONSTRUCTION AHEAD" signs on all roads worked on in this project. 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. 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

-Please see gate typical drawing for gate signs required.

-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.

-Road segments designated for roadway ditching shall have excavated material hauled to pit.

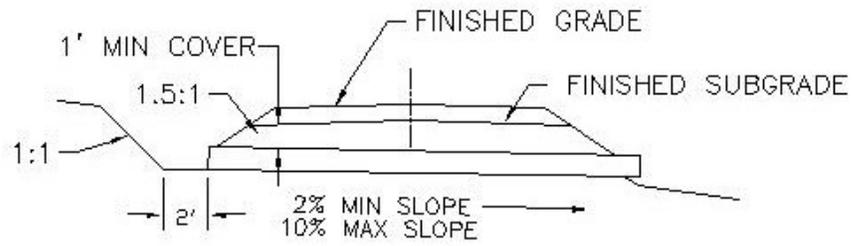
-Vegetation cut down during roadside brushing will be pulled beyond the clearing limits and the toe of any roadway template construction. Mixing of soil and cut vegetation shall be avoided. All material will be scattered and lopped within 3' of the ground.

-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.

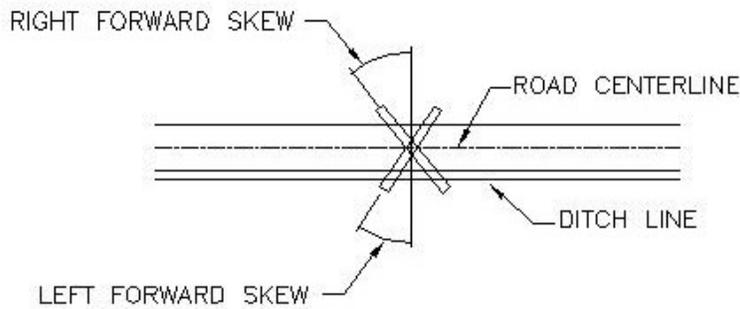
Road Log - Work Descriptions

FR 259 Coal Knob Road (Level C)

Station	Road Log/Work Description
0+00	Intersection with Route 6 near Ludlow
55+22	Intersection FR 259A right
78+15	FR 364 left
91+70	FR 120 right
251+50	FR 365 left
271+60	FR 293 left
389+85	FR 140 right, FR 204 left
409+55	FR 263 right
418+60 Site #2	Dispersed campsite left (on east west of FR 259, 0.8 mile south of FR 160), construct dispersed recreation parking sites by upgrading cleared location. Work includes: Mobilization, reconditioning, placement of one 18"x 24' CMP (AL coated Type 2), placement of 6 boundary rocks (rock are available at pit or along FR 259), apply and compact 92 tons 1" minus gravel aggregate.
421+75	Turnout right
423+40	18" x 20' CMP
425+25	Electric line crosses road, wide right of way
436+15	Turnout right
441+65	18" x 28' CMP
444+55	Turnout left
446+60	18" x 30' CMP
449+65	Turnout right
452+10 Site #1	Log landing right (on east side of FR 259, 0.2 mile south of FR160), construct dispersed recreation parking sites by upgrading cleared location. Work includes: Mobilization, reconditioning, placement of one 18"x 24' CMP (AL coated Type 2), placement of 9 boundary rocks (rock are available at pit or along FR 259), apply and compact 92 tons 1" minus gravel aggregate.
455+95	Turnout right
458+30	18" x 28' CMP
459+30	Road number sign left
459+55	STOP sign right
460+15	Road ends at intersection with FR 160

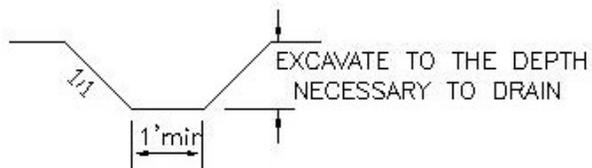


CULVERT SECTION

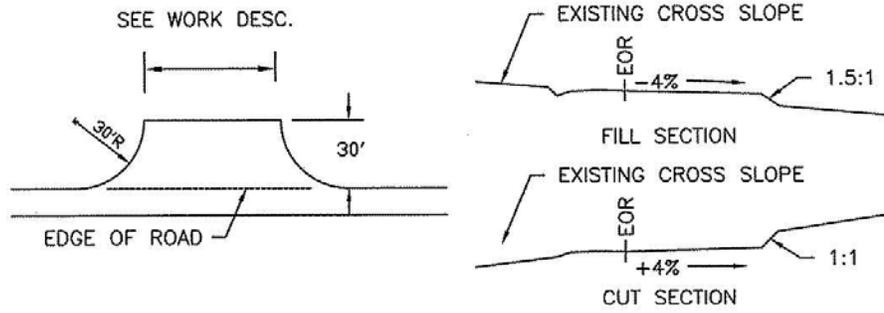


SKEW DETAIL

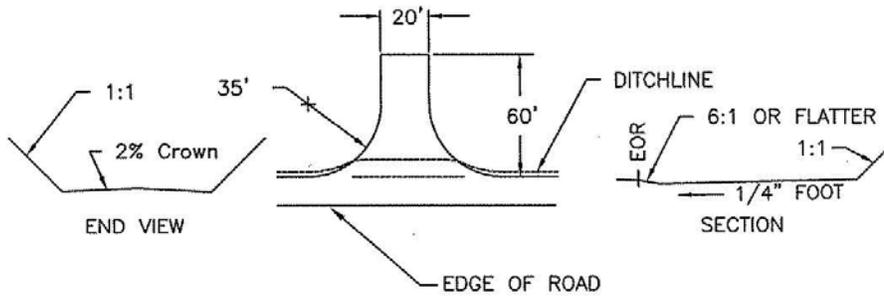
NOTE: Field locate ditch to minimize new clearing



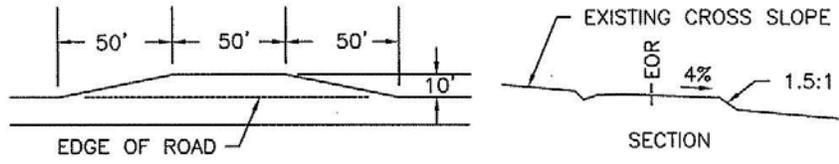
OUTLET/LEAD OFF DITCH SECTION



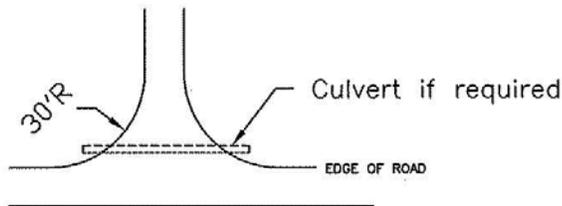
PARKING LOT DETAIL



TURNAROUND DETAIL



TURNOUT DETAIL



INTERSECTION DETAIL

Pit Development Plan

Boundary rocks for this project will come from the existing pit on FR 110A or along FR 259.

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.