	REVIEW OF NEW SPECIFICATION OR S	PECIFI	CATION CHANGE	201-1	
Spec	ification Section No.: 201		Item: Clearing and Grub	obing	
Origi	nating Office: MAC		By: Christopher Russe	I	
Date	Sent For Review: 09.26.16		Date Comments Due:	10.24.16	
	it response to: STANDARDS AND SPECIFIC/ OOR, CDOT HEADQUARTERS	ATION	S UNIT, DIVISION OF PROJE	CT SUPPORT	
	Concurrent Reviews – Others				
Y/N	Commenting		The attached Draft Specification is submitted for your review an comments. If not returned by Date Comments Due, the dra specification will be considered to be approved unless th		
	Spec Committee Members:	✓	Standards and Specifications Un Branch [(303) 757-9474, (303) 757	it of the Project Development	
	Co-Chairman: Lacey			-9402j is advised otherwise.	
	Region 1: Quirk		REMARKS:		
	Region 1: Stratton		If these proposed modific		
	Region 2: Phillips		our unit will issue them in a new Standard Special Provision.		
	Region 3: Jean		1		
	Region 4: Boespflug				
	Region 5: Valentinelli				
	Project Development: Vacant				
	Specifications: Brinck				
	Bridge: Hasan				
	Contracts & Market Analysis: Eddy				
	Materials: Schiebel				
	Traffic Engineering: Matthews		REVIEWER COMMENTS:		
	Maintenance: Weldon				
	FHWA: Feery		() Approved () Disa Modified	pproved ()	
	Attorney General: Milan		If disapproved or modif	ind give reason why	
			and show any modification		
	Others:		draft copy:		
	Colorado Contractors Assoc.: Moody				
	Technical Committees:		Name/Signature Date		
	PDAC				
	Drainage Advisory Committee (DAC)				
	Water Quality Advisory Committee (WQAC)				

COLORADO DEPARTMENT OF TRA SUBMITTAL OF NEW SPE SPECIFICATION CHANGE	CI		Log No. (Assigned by Standards and Specifications Unit) 201-1	
TO: Standards and Specification Unit, Project Development, Suite 290	ns	FROM: Materials (Region, Branch or Tec	Advisory Committee	
SPECIFICATION SECTION		EM		Priority
NO. 201	CI	earing and Grubbir	ng	Routine⊠ Fast⊡
Reason for this new or changed The specification was updated to of organics occur beneath all em changes were developed under Force TF 2015-01 involving the specification changes were appr	o re ibai a M Col	quire that clearing a nkment foundations laterials Advisory C orado Contractors	s rega Comm	ardless of height. The nittee (MAC) Task
New or Revised Specification: See Attached.	51	3.1 for a description) of 2	noronriate
specification developme				PPIOPIOLO

CDOT Form 1215 10/01

CONSTRUCTION DETAILS DIVISION 200 EARTHWORK

SECTION 201 CLEARING AND GRUBBING

DESCRIPTION

201.01

This work consists of clearing, grubbing, removing, and disposing of vegetation, and debris within the limits of the right of way, easement areas, borrow pits, and other areas shown in the Contract or required by the work. Vegetation and objects designated to remain shall be preserved free from injury or defacement.

CONSTRUCTION REQUIREMENTS

201.02

The Engineer will designate all trees, shrubs, plants, and other objects to remain. Every object that is designated to remain and is damaged shall be repaired or replaced as directed, at the Contractor's expense.

Clearing and grubbing shall extend to the toe of fill or the top of cut slopes, unless otherwise designated.

All surface objects, trees, stumps, roots, and other protruding obstructions not designated to remain shall be cleared and grubbed, including mowing, as required. In areas to be rounded at the tops of backslopes, stumps shall be removed to at least 2 feet below the surface of the final slope line.

Except in areas to be excavated, all holes resulting from the removal of obstructions shall be backfilled with suitable material and compacted in accordance with subsection 203.06.

Burning of perishable material will not be permitted without the written approval of the Engineer. If permitted, perishable material shall be burned under the constant care of the Contractor, at times and in a manner that will not endanger the surrounding vegetation, adjacent property, or objects designated to remain. Burning shall be done in accordance with applicable laws and ordinances.

No material or debris shall be disposed of within the project limits without the written permission of the Engineer. Material or debris that is disposed of within the project limits shall be buried to a depth of at least 2 feet and the surface shall be reshaped to match the adjacent ground line. The Contractor shall make all arrangements to obtain written permission from property owners for disposal locations outside the limits and view of the project. Copies of this written agreement shall be furnished to the Engineer before the disposal area is used.

All cleared merchantable timber shall be removed from the project and shall become the property of the Contractor.

Branches on trees or shrubs shall be removed as directed. Branches of trees extending over the roadbed shall be trimmed to give a clear height of 20 feet above the roadbed surface. All trimming shall be done in accordance with good tree surgery practices.

The Contractor shall scalp the areas within the excavation or embankment grading limits. <u>Mowed sod</u> need not be removed where the embankment to be constructed is 4 feet or more in height. Scalping shall **Commented [RCP1]:** The original specification allowed for roots, stumps, etc. located more than 2 feet below subgrade elevation to remain in place. We are not allowing this anymore. All organics must be removed from the embankment foundation.

Commented [RCP2]: The Original Specification also allowed sod, and top soil to remain in the embankment foundation if the proposed embankment would exceed 4 feet in height. All organics and top soil must be removed from all embankment foundations now. include the removal from the ground surface of brush, roots, sod, grass, residue of agricultural crops, sawdust, and other vegetable matter. See subsection 208.04(e) for disturbed area limits.

METHOD OF MEASUREMENT

201.03

Measurement will be by one of the following methods:

- (a) *Area Basis.* The work to be paid for will be the number of acres acceptably cleared and grubbed, including scalping, within the limits shown on the plans or staked by the Engineer.
- (b) *Lump Sum Basis*. When the Contract contains a clearing and grubbing lump sum item, no measurement will be made.
- (c) *Volume Basis.* When payment is specified on a volume basis, all accepted clearing and grubbing will be measured in a stock-piled position by cross-sectioning.

BASIS OF PAYMENT

201.04

The accepted quantities of clearing and grubbing will be paid for at the contract unit prices as follows:

- (a) *Area Basis.* The quantities will be paid for at the contract unit price bid per acre for each pay item that appears in the bid schedule.
- (b) *Lump Sum Basis.* When the bid schedule contains a lump sum item, the lump sum price so bid will be paid and shall be full compensation for clearing and grubbing the entire project.
- (c) *Volume Basis.* The quantities will be paid for at the contract unit price bid per cubic yard for each pay item that appears in the bid schedule.

Clearing and grubbing beyond the limits designated under this item will be paid for as Extra Work in accordance with subsection 104.03.

Payment will be made under:

Pay Item	Pay Unit
Clearing	Acre, Cubic Yard, Lump Sum
Grubbing	Acre, Cubic Yard, Lump Sum
Clearing and Grubbing	Acre, Cubic Yard, Lump Sum

(d) *Exclusions*. When the bid schedule does not contain an estimated quantity or a lump sum item for clearing and grubbing, the work will not be paid for separately, but shall be included in the work.

Commented [RCP3]: Contractor's requested an option that clearing and grubbing be paid on a volume basis.

REVISION OF SECTION 201 CLEARING AND GRUBBING

Section 201 of the Standard Specifications is hereby revised for this project as follows:

In subsection 201.02, delete the third paragraph and replace with the following:

All surface objects, trees, stumps, roots, and other protruding obstructions not designated to remain shall be cleared and grubbed, including mowing, as required. In areas to be rounded at the tops of backslopes, stumps shall be removed to at least 2 feet below the surface of the final slope line.

Subsection 201.03 shall include the following:

(c) Volume Basis. The quantities will be paid for at the contract unit price bid per cubic yard for each pay item that appears in the bid schedule.

Subsection 201.04 shall include the following:

(c) Volume Basis. The quantities will be paid for at the contract unit price bid per cubic yard for each pay item that appears in the bid schedule.