PROJECT SPECIAL PROVISIONS

ROADWAY

CLEARING AND GRUBBING - METHOD II:

(9-17-02) (Rev. 1-17-12)

200

SP2 R02A

Perform clearing on this project to the limits established by Method "II" shown on Standard Drawing No. 200.02 of the 2012 Roadway Standard Drawings.

BUILDING AND UNDERGROUND STORAGE TANK REMOVAL:

(1-1-02) (Rev. 1-17-12)

215

SP2 R15 C

Remove the buildings, underground storage tanks and appurtenances listed below in accordance with Section 215 of the 2012 Standard Specifications:

Building Removal No. 1

Parcel 011 – Left of Survey Station 30+50 to 31+02, Line -L-

1SBLK Business (1,047 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 2

Parcel 051 – Left of Survey Station 54+59 to 55+37, Line -L-

1SBLK Business – Approximately 4,560 SF – 2,280 SF Upstairs and 2,280 SF Basement

Building Removal No. 3

Parcel 087 - Left of Survey Station 72+78 to 73+16, Line -L-

1SMB (1,768 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 4

Parcel 098 - Right of Survey Station 77+15 to 77+77, Line -L-

1SBLK Business (3,112 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 5

Parcel 104 - Right of Survey Station 82+35, Line -L-

Wood Sign

Building Removal No. 6

Parcel 105 – Left of Survey Station 83+50 to 83+71, Line -L-

1SBLK Building (216 SF)

Building Removal No. 7

Parcel 108 - Left of Survey Station 87+14 to 87+69, Line -L-

2SBKB (2,475 SF), Steel Stairs (21 SF), Steel Balcony (15 SF)

Building Removal No. 8

Parcel 111 – Right of Survey Station 89+57to 90+14, Line -L-1SFD (1,040 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 9

Parcel 113 – Right of Survey Station 90+70 to 91+15, Line -L-1SFD (1,096 SF), Front Porch (210 SF), Back Porch (28 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 10

Parcel 115 – Right of Survey Station 92+08 to 92+48, Line -L-1SFD (1,038 SF), Covered Front Porch (86 SF)

Building Removal No. 11

Parcel 118 – Right of Survey Station 94+25 to 94+55, Line -L-1SBKD (1,143 SF)

Building Removal No. 12

Parcel 128 – Left of Survey Station 100+00 to 100+80, Line -L-1SF Business w/2 Apartment Units (2,853 SF), Wood Canopy (392 SF), Concrete Porch and Steps (81 SF), Septic System/Tail Lines, Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 13

Parcel 139 – Right of Survey Station 105+30 to 105+82, Line -L-1SBLK Building (2,076 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 14

Parcel 150 – Right of Survey Station 122+60 to 123+51, Line -L-1SFD (1,900 SF), Walk Up Area (312 SF), Carport/Garage (672 SF), Handicap Ramp (345 SF), Deck (72 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 15

Parcel 176 – Right of Survey Station 148+88 to 149+17, Line -L-1SFD (1,016 SF), Front Porch (145 SF), Rear Porch (145 SF), Partially Outside of Right of Way and/or Construction Limits

Building Removal No. 16

Parcel 207 – Left of Survey Station 172+37 to 180+00, Line -L-1SF Business (991 SF), 1SBLK Rest Room (65 SF), Partially Outside of Right of Way and/or Construction Limits

When the description of the work for an item indicates a building partially inside and partially outside the right of way and/or construction area, but does not require the building to be cut off, the entire building shall be removed.

SHOULDER AND FILL SLOPE MATERIAL:

(5-21-02)

235 560

SP2 R45 A

Description

Perform the required shoulder and slope construction for this project in accordance with the applicable requirements of Section 560 and Section 235 of the 2012 Standard Specifications.

Measurement and Payment

Where the material has been obtained from an authorized stockpile or from a borrow source and *Borrow Excavation* is not included in the contract, no direct payment will be made for this work, as the cost of this work will be part of the work being paid at the contract lump sum price for *Grading*. If *Borrow Excavation* is included in this contract and the material has been obtained from an authorized stockpile or from a borrow source, measurement and payment will be as provided in Section 230 of the 2012 Standard Specifications for Borrow Excavation.

ASPHALT PAVEMENTS - SUPERPAVE:

(6-19-12

605

SP6 R01

Revise the 2012 Standard Specifications as follows:

Page 6-3, Article 605-7 APPLICATION RATES AND TEMPERATURES, replace this article, including Table 601-1, with the following:

Apply tack coat uniformly across the existing surface at target application rates shown in Table 605-1.

TABLE 605-1 APPLICATION RATES FOR TACK COAT

Evisting Course	Target Rate (gal/sy)
Existing Surface	Emulsified Asphalt
New Asphalt	0.04 ± 0.01
Oxidized or Milled Asphalt	0.06 ± 0.01
Concrete	0.08 ± 0.01

Apply tack coat at a temperature within the ranges shown in Table 605-2. Tack coat shall not be overheated during storage, transport or at application.

TABLE 605-2
APPLICATION TEMPERATURE FOR TACK COAT

AT LICATION TEMPERATURE FOR TACK COM							
Temperature Range							
350 - 400°F							
130 - 160°F							
130 - 160°F							
130 - 160°F							
130 - 160°F							
130 - 160°F							

Page 6-18, Article 610-1 DESCRIPTION, lines 40-41, delete the last sentence of the last paragraph.

Page 6-19, Subarticle 610-3(A) Mix Design-General, line 5, add the following as the first paragraph:

Warm mix asphalt (WMA) is allowed for use at the Contractor's option in accordance with the NCDOT Approved Products List for WMA Technologies available at: http://www.ncdot.org/doh/operations/materials/pdf/wma.pdf.

ASPHALT BINDER CONTENT OF ASPHALT PLANT MIXES:

(11-21-00) (Rev. 7-17-12)

609

SP6 R15

The approximate asphalt binder content of the asphalt concrete plant mixtures used on this project will be as follows:

Asphalt Concrete Base Course	Type B 25.0	4.4%
Asphalt Concrete Intermediate Course	Type I 19.0	4.8%
Asphalt Concrete Surface Course	Type S 4.75A	6.8%
Asphalt Concrete Surface Course	Type SA-1	6.8%
Asphalt Concrete Surface Course	Type SF 9.5A	6.7%
Asphalt Concrete Surface Course	Type S 9.5	6.0%
Asphalt Concrete Surface Course	Type S 12.5	5.6%

The actual asphalt binder content will be established during construction by the Engineer within the limits established in the 2012 Standard Specifications.

ASPHALT PLANT MIXTURES:

(7-1-95)

609

SP6 R20

Place asphalt concrete base course material in trench sections with asphalt pavement spreaders made for the purpose or with other equipment approved by the Engineer.

PRICE ADJUSTMENT - ASPHALT BINDER FOR PLANT MIX:

(11-21-00)

620

SP6 R25

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the 2012 Standard Specifications.

The base price index for asphalt binder for plant mix is \$590.33 per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on August 1, 2012.

FINAL SURFACE TESTING NOT REQUIRED:

(5-18-04) (Rev. 5-15-12)

SP6 R45

Final surface testing is not required on this project.

TEMPORARY WOVEN WIRE FENCE:

(7-1-95) (Rev. 7-18-06)

866

SP8 R85

Description

Construct a temporary 48" woven wire fence at locations directed by the Engineer. Use only fabric and posts that have been approved by the Engineer. Provide post spacing of 12 feet. Construct the fence and maintain it with the fabric taut and securely fastened to the posts at all times.

After the fence has served its purpose and is no longer needed, as determined by the Engineer, it becomes the property of the Contractor.

Measurement and Payment

Temporary "Woven Wire Fence, Complete with Posts will be measured and paid as the actual number of linear feet of fence constructed and accepted, measured in place from center of end post to center of end post. Such price and payment will be full compensation for all materials, labor, fence maintenance, and incidentals necessary to satisfactorily complete the work.

Payment will be made under:

Pay Item

Pay Unit

Temporary "Woven Wire Fence, Complete with Posts

Linear Foot

DETECTABLE WARNINGS FOR PROPOSED CURB RAMPS:

(6-15-10) (Rev. 8-16-11)

SP8 R126

Description

Construct detectable warnings consisting of integrated raised truncated domes on proposed concrete curb ramps in accordance with the 2012 Standard Specifications, plan details, the requirements of the 28 CFR Part 36 ADA Standards for Accessible Design and this provision.

Materials

Detectable warning for proposed curb ramps shall consist of integrated raised truncated domes. The description, size and spacing shall conform to Section 848 of the 2012 Standard Specifications.

Use material for detectable warning systems as shown herein. Material and coating specifications must be stated in the Manufacturers Type 3 Certification and all Detectable Warning systems must be on the NCDOT Approved Products List.

Install detectable warnings created from one of the following materials: precast concrete blocks or bricks, clay paving brick, gray or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile. Only one material type for detectable warning will be permitted per project, unless otherwise approved by the Engineer.

- (A) Detectable Warnings shall consist of a base with integrated raised truncated domes, and when constructed of precast concrete they shall conform to the material requirements of Article 848-2 of the 2012 Standard Specifications.
- (B) Detectable Warnings shall consist of a base with integrated raised truncated domes, and may be comprised of other materials including, but not limited, to clay paving brick, gray iron or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile, which are cast into the concrete of the curb ramps. The material shall have an integral color throughout the thickness of the material. The detectable warning shall include fasteners or anchors for attachment in the concrete and shall be furnished as a system from the manufacturer.

Prior to installation, the Contractor shall submit to the Engineer assembling instructions from the manufacturer for each type of system used in accordance with Article 105-2 of the 2012 Standard Specifications. The system shall be furnished as a kit containing all consumable materials and consumable tools, required for the application. They shall be capable of being affixed to or anchored in the concrete curb ramp, including green concrete (concrete that has set but not appreciably hardened). The system shall be solvent free and contain no volatile organic compounds (VOC). The static coefficient of friction shall be 0.8 or greater when measured on top of the truncated domes and when measured between the domes in accordance with ASTM C1028 (dry and wet). The system shall be resistant to deterioration due to exposure to sunlight, water, salt or adverse weather conditions and impervious to degradation by motor fuels, lubricants and antifreeze.

(C) When steel or gray iron or ductile iron casting products are provided, only products that meet the requirements of Subarticle 106-1(B) of the 2012 Standard Specifications may be used. Submit to the Engineer a Type 6 Certification, catalog cuts and installation procedures at least 30 days prior to installation for all.

Construction Methods

- (A) Prior to placing detectable warnings in proposed concrete curb ramps, adjust the existing subgrade to the proper grade and in accordance with Article 848-3 of the 2012 Standard Specifications.
- (B) Install all detectable warning in proposed concrete curb ramps in accordance with the manufacturer's recommendations.

Measurement and Payment

Detectable Warnings installed for construction of proposed curb ramps will not be paid for separately. Such payment will be included in the price bid for *Concrete Curb Ramps*.

STREET SIGNS AND MARKERS AND ROUTE MARKERS:

(7-1-95) 900 SP9 R02

Move any existing street signs, markers, and route markers out of the construction limits of the project and install the street signs and markers and route markers so that they will be visible to the traveling public if there is sufficient right of way for these signs and markers outside of the construction limits.

Near the completion of the project and when so directed by the Engineer, move the signs and markers and install them in their proper location in regard to the finished pavement of the project.

Stockpile any signs or markers that cannot be relocated due to lack of right of way, or any signs and markers that will no longer be applicable after the construction of the project, at locations directed by the Engineer for removal by others.

The Contractor shall be responsible to the owners for any damage to any street signs and markers or route markers during the above described operations.

No direct payment will be made for relocating, reinstalling, and/or stockpiling the street signs and markers and route markers as such work shall be considered incidental to other work being paid for by the various items in the contract.

MATERIALS: (2-21-12) (Rev. 9-18-12)

21-12) (Rev. 9-18-12) 1005, 1081, 1092

SP10 R01

Revise the 2012 Standard Specifications as follows:

Page 10-5, Table 1000-1, REQUIREMENTS FOR CONCRETE, replace with the following:

	TABLE 1000-1 REQUIREMENTS FOR CONCRETE											
	: 2	Maxir		er-Cement		Con	sistency . Slump		Cemen	t Content	t	
Class of Concrete	Min. Comp. Strength at 28 days	Air-Entrained Concrete		Non Air- Entrained Concrete		Vibrated	Non- Vibrated	Vibrated		Non- Vibrated		
• 0	Min at Si	Rounded Aggre-gate	Angular Aggre- gate	Rounded Aggre-gate	Angular Aggre- gate	Vib		Z Si	Min.	Max.	Min.	Max.
Units	psi				M	inch	inch	lb/cy	lb/cy	: lb/cy	lb/cy	
AA	4,500	0.381	0.426	-	-	3.5	-	639	715	-	-	
AA Slip Form	4,500	0.381	0.426	-	-	1.5	: -	639	. 715	· •	-	
Drilled Pier	4,500	. -	-	0.450	0.450	-	5-7 dry 7-9 wet	-	-	640	, 800	
Α	3,000	0.488	0.532	0.550	0.594	3.5	4	564	· -	602	-	
В	2,500	0.488	0.567	0.559	0.630	2.5	: 4	508	-	545	-	
B Slip Formed	2,500	0.488	0.567	-	-	1.5	. <u>-</u>	508	_	_	-	
Sand Light- weight	4,500	_	0.420		-	. 4		715	; -	-	-	
Latex Modified	3,000 7 day	0.400	0.400	-	-	6	-	658	-		: =	
Flowable Fill excavatable	150 max. at 56 days	as needed	as needed	as needed	as needed		Flow- able	-	: : -	40	100	
Flowable Fill	. 125	as needed	as needed	as needed	as needed	-	Flow- able	-	. <u>-</u>	100	as needed	
Pavement	4,500 design, field 650 flexural, design only	0.559	0.559	: -	-	1.5 slip form 3.0 hand	· <u>-</u>	526	· · · · · · · · · · · · · · · · · · ·	· _	. -	
Precast	See Table 1077-1	as needed	as needed	-	-	6	as needed	as needed	as needed	as : needed	as needed	
Prestress	per contract	See Table 1078-1	See Table 1078-1	~	-	8	- ,	564	as needed	- -	-	

Page 10-23, Table 1005-1, AGGREGATE GRADATION-COARSE AGGREGATE, replace with the following:

Light- weight ^C	ABC (M)	ABC	9	14M	78M	67	M9	57M	57	5	467M	: . 4	Std. Size#	:
		•			•			1			100	100	2"	:
: 1	100	100		ı			•	8	100	100	100	100	1/2"	:
•	75- 100	75- 97	•	1	ı	100	100	95- 100	95- 100	100	,	20- . 55	7	· :
	•	•			100	90 <u>-</u>	90-		•	20- 55	35 <u>-</u> 70	0-15	3/4"	. 4
100	45- 79	80 80	ı		98- 100	1	20- 55	25- 45	25- 60	0-10	-1		1/2"	Percentage of Total by Weight Passing
100	1	ı	100	100	75- 100	20- 55	0-20		1	0-5	0-30	0-5	3/8"	tage o
.40	20 <u>-</u>	35- 55	100	35- 70	20- 45	0-10	0-8	0-10	0-10	. 1	0-5		#	f Tota
0-20		ı	40	5-20	0-15	0-5	ı	0-5	0-5	:		· •	#8	ıl by V
	0- 25	25- 45	ı	ı		ı	. ,		,	,			#10	Veigh
0-10	•	•	0-10	0-8	ı	ı	ı			: I		· · · · · ·	#16	t Pass
•	•	30		ı	ı	ı	ı		ı	•			#40	ing
0-2.5	0- 12 ^B	4- 12 B	A	>	A	Α	A	A :	Α	A	A	>	#200	
AST	Maintenance Stabilization	Aggregate Base Course, Aggregate Stabilization	AST	Asphalt Plant Mix, AST, Weep Hole Drains, Str. Concrete	Asphalt Plant Mix, AST, Str. Conc, Weep Hole Drains	AST, Str. Concrete, Asphalt Plant Mix	AST	AST, Concrete Pavement	AST, Str. Concrete, Shoulder Drain, Sediment Control Stone	AST, Sediment Control Stone	Asphalt Plant Mix	Asphalt Plant Mix	Remarks	

Page 10-126, Table 1078-1, REQUIREMENTS FOR CONCRETE, replace with the following:

TABLE 1078-1 REQUIREMENTS FOR CONCRETE						
Property	28 Day Design Compressive Strength 6,000 psi or less	28 Day Design Compressive Strength greater than 6,000 psi				
Maximum Water/Cementitious Material Ratio	0.45	0.40				
Maximum Slump without HRWR	3.5"	3.5"				
Maximum Slump with HRWR	8"	8"				
Air Content (upon discharge into forms)	5 + 2%	5 + 2%				

Page 10-162, Subarticle 1081-1(A) Classifications, lines 4-7, delete the second and third sentences of the description for Type 3A.

Page 10-162, Subarticle 1081-1(B) Requirements, lines 26-30, replace the second paragraph with the following:

For epoxy resin systems used for embedding dowel bars, threaded rods, rebar, anchor bolts and other fixtures in hardened concrete, the manufacturer shall submit test results showing that the bonding system will obtain 125% of the specified required yield strength of the fixture. Furnish certification that, for the particular bolt grade, diameter and embedment depth required, the anchor system will not fail by adhesive failure and that there is no movement of the anchor bolt. For certification and anchorage, use 3,000 psi as the minimum Portland cement concrete compressive strength used in this test. Use adhesives that meet Section 1081.

List the properties of the adhesive on the container and include density, minimum and maximum temperature application, setting time, shelf life, pot life, shear strength and compressive strength.

Page 10-169, Subarticle 1081-3(G) Anchor Bolt Adhesives, delete this subarticle.

Page 10-204, Subarticle 1092-2(A) Performance and Test Requirements, replace

Table 1092-3 Minimum Coefficient of Retroreflection for NC Grade A with the following:

i	TABLE 1092-3
:	MINIMUM COEFFICIENT OF RETROREFLECTION FOR NC GRADE A
	(Candelas Per Lux Per Square Meter)

Observation Angle, degrees	Entrance Angle, degrees	White	Yellow	Green	Red	Blue	Fluorescent Yellow Green	Fluorescent Yellow
0.2	-4.0	525	395	52	95	30	420	315
0.2	30.0	215	162	22	43	10	170	130
0.5	-4.0	310	230	31	56	18	245	185
0.5	30.0	135	100	14	27	. 6	110	81
1.0	-4.0	120	60	8	16	3.6	64	48
1.0	30.0	45	34	4.5	9	2	36	27

SELECT MATERIAL, CLASS III, TYPE 3:

(1-17-12) 1016, 104

SP10 R05

Revise the 2012 Standard Specifications as follows:

Page 10-39, Article 1016-3, CLASS III, add the following after line 14:

Type 3 Select Material

Type 3 select material is a natural or manufactured fine aggregate material meeting the following gradation requirements and as described in Sections 1005 and 1006:

Percentage of Total by Weight Passing									
3/8"	#4	#8	#16	#30	#50	#100	#200		
100	95-100	65-100	35-95	15-75	5-35	0-25	0-8		

Page 10-39, Article 1016-3, CLASS III, line 15, replace "either type" with "Type 1, Type 2 or Type 3".

Page 10-62, Article 1044-1, line 36, delete the sentence and replace with the following:

Subdrain fine aggregate shall meet Class III select material, Type 1 or Type 3.

Page 10-63, Article 1044-2, line 2, delete the sentence and replace with the following:

Subdrain coarse aggregate shall meet Class V select material.

PERMANENT SEEDING AND MULCHING:

(7-1-95) 1660

SP16 R02

The Department desires that permanent seeding and mulching be established on this project as soon as practical after slopes or portions of slopes have been graded. As an incentive to obtain an early stand of vegetation on this project, the Contractor's attention is called to the following:

For all permanent seeding and mulching that is satisfactorily completed in accordance with the requirements of Section 1660 in the 2012 Standard Specifications and within the following percentages of elapsed contract times, an additional payment will be made to the Contractor as an incentive additive. The incentive additive will be determined by multiplying the number of acres of seeding and mulching satisfactorily completed times the contract unit bid price per acre for Seeding and Mulching times the appropriate percentage additive.

Percentage of Elapsed Contract Time	Percentage Additive
0% - 30%	30%
30.01% - 50%	15%

Percentage of elapsed contract time is defined as the number of calendar days from the date of availability of the contract to the date the permanent seeding and mulching is acceptably completed divided by the total original contract time.

PEDESTRIAN SAFETY RAIL:

Description

Furnish and install pedestrian safety rail at the locations shown in the plans, in accordance with the detail in the plans and as directed by the Engineer.

Measurement and Payment

Pedestrian Safety Rail will measured and paid for as the actual number of linear feet of safety rail measured along the top of the rail to the nearest 0.1 of a foot. Such price and payment shall be full compensation for fabricating, furnishing, installing, painting and all incidentals necessary to satisfactorily install the safety rail.

Payment will be made under:

Pay Item
Pedestrian Safety Rail

Pay Unit Linear Foot