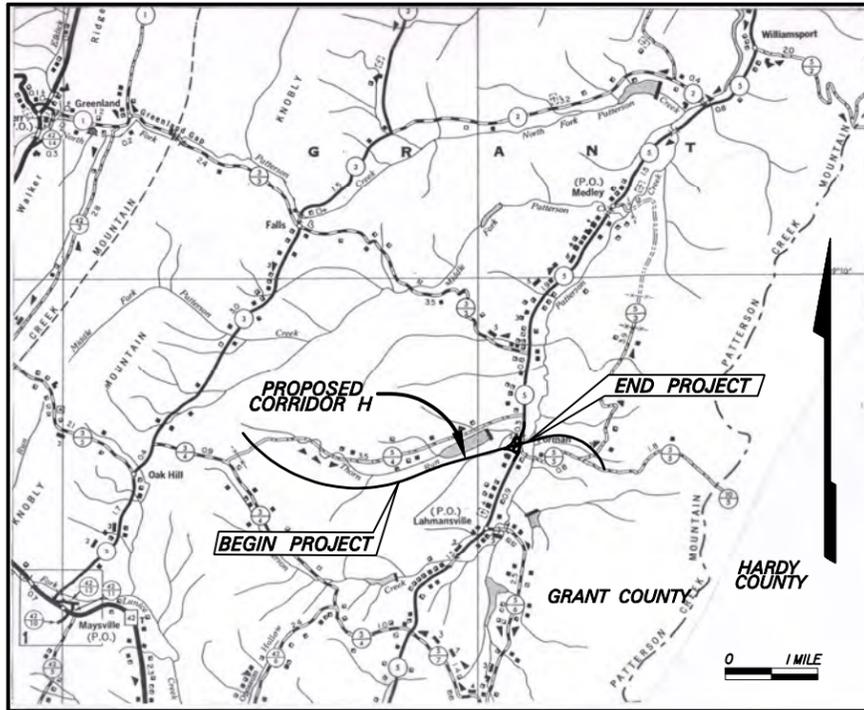


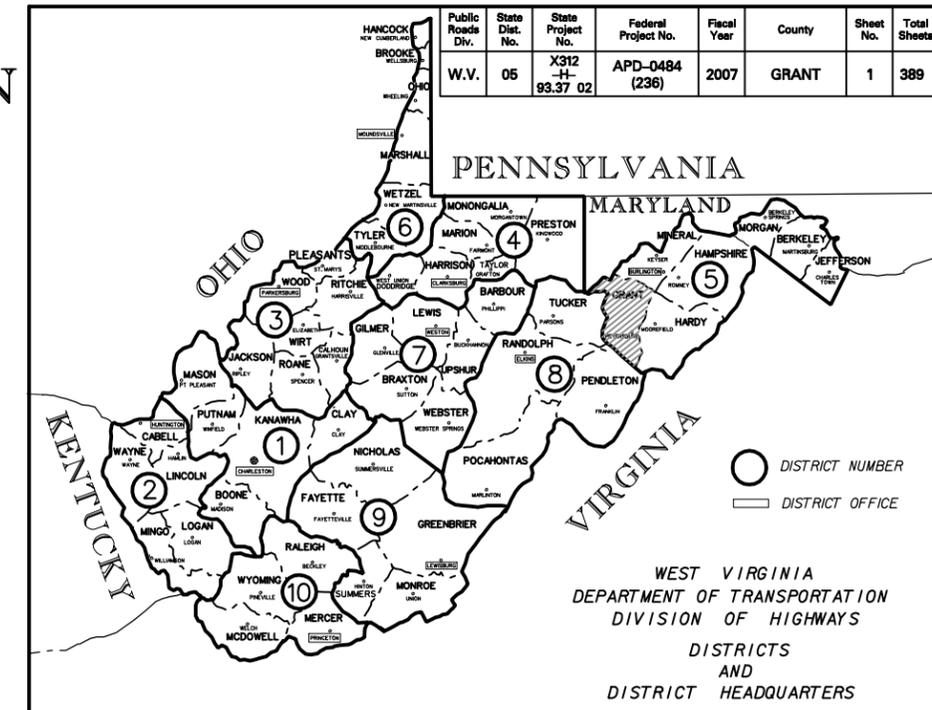
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR CONSTRUCTION

OF
STATE HIGHWAY
FEDERAL PROJECT NO. APD-0484(236)
STATE PROJECT NO. X312-H-93.37 02
ROUTE NO. US 48
GRANT DISTRICT
GRANT COUNTY
APPALACHIAN CORRIDOR "H"
FORMAN IC-NW CO 5/3

Station	Station	ft.	mile (s)
Roadway	765+20.64 to 782+75.00	= 1,754.36	= 0.332
Total Project Length =		1,754.36	= 0.332



VICINITY MAP



WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICTS
AND
DISTRICT HEADQUARTERS

TYPE OF CONSTRUCTION

CORRIDOR H - GRADE, DRAIN, PAVE, CULVERT #10426
CULVERT #10461
CR 5 - GRADE, DRAIN, PAVE, SIGNING,
PAVEMENT MARKINGS, BRIDGE #10425
PLANS PREPARED BY:

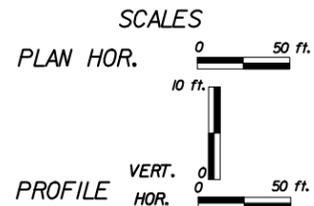
UTILITIES

GRANT COUNTY PSD (WATER)
ALLEGHENY POWER (ELECTRIC)
FRONTIER, a CITIZEN'S COMMUNICATION (TELEPHONE)

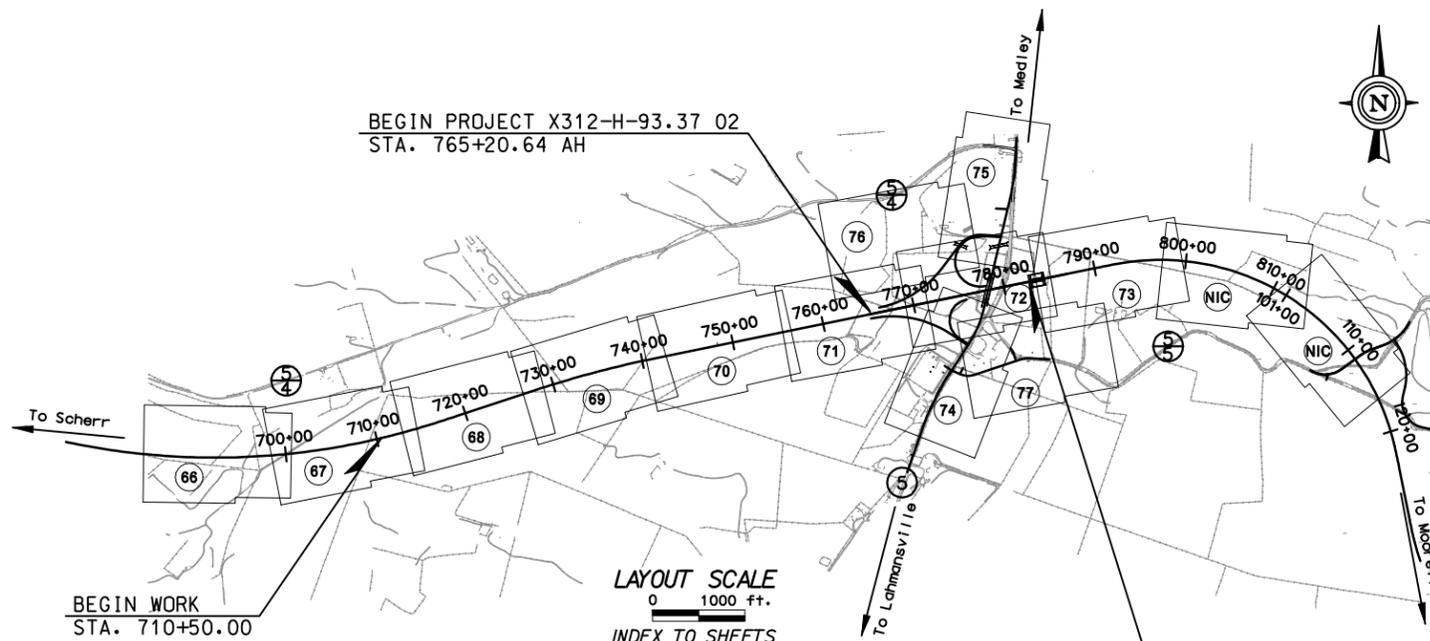
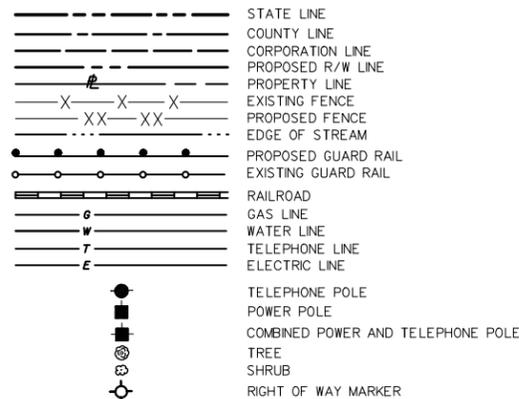
Note: Other sheets in this set of contract documents show the Federal Project Number APD-0484 (236) C State Project Number X312-H-93.37 Fiscal Year 2006 These shall be read as Federal Project Number APD-0484 (236) State Project Number X312-H-93.37 02 Fiscal Year 2007

ACCESS CONTROL

This project is a fully controlled access facility with access only as designated on the plans.



CONVENTIONAL SIGNS



NO.	DESCRIPTION
1	TITLE SHEET
2-9	TYPICAL SECTIONS
10-11	SUMMARY OF QUANTITIES
12-13	GENERAL NOTES
14-22	QUANTITY TABLES
23-31	SPECIAL DETAILS
32-36	OWNERSHIP INDEX & PROPERTY MAP
37-38	INTERCHANGE GRADING PLAN
39-40	GEOMETRIC LAYOUT
41-43	REFERENCE POINTS & BENCH MARKS
44-45	TRAFFIC SKETCH MAPS
46-54	SUPERELEVATION TABLES
55-64	PAVEMENT DETAILS
65	MAINTENANCE OF TRAFFIC
66-77	PLAN SHEETS
78-95	PROFILE SHEETS
96-98	PIPE PROFILES
99-125	BRIDGE #10425
126-134	CULVERT #10426
135-143	CULVERT #10461
144-160	SIGNING & PAVEMENT MARKINGS
161-179	SOILS & GEOLOGICAL DATA
180-389	CROSS SECTIONS

END CONSTRUCTION PROJECT X312-H-93.37 02
STA. 782+75.00
END WORK

REVISION NUMBER	SHEET NUMBER	REVISIONS	DATE	BY

I HEREBY CERTIFY THAT THIS IS A CORRECT COPY OF THE PLANS OF PROJECT... X312-H-93.37 02 - APD-0484(236) ...

EXECUTIVE SECRETARY

CERTIFIED _____ DATE _____

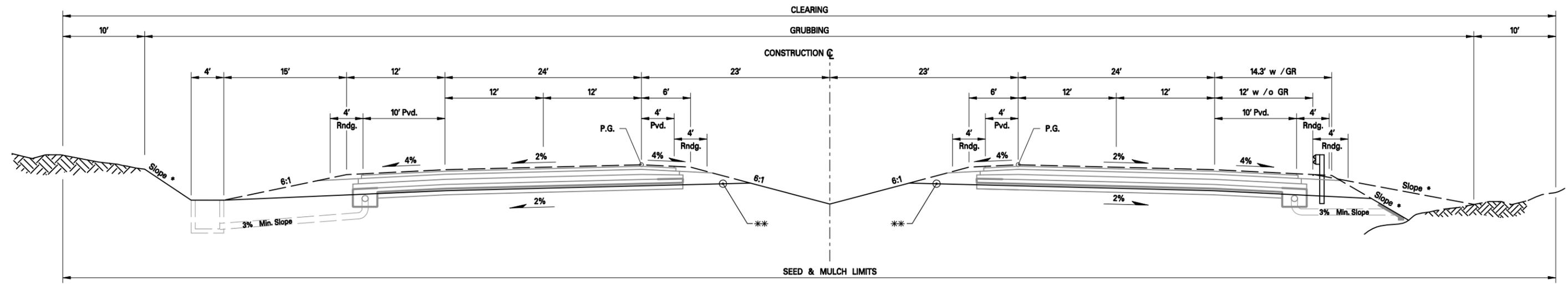
**NEFF, LONGEST, & BEAM
AND ASSOC., LLC.**
Consulting Engineers
Charleston, West Virginia

CERTIFIED _____ DATE _____

NOTES: STANDARD DETAIL BOOK VOL. I DATED JAN. 1, 2000 & VOLUME II DATED JAN. 1, 1994, SHALL APPLY TO THIS PROJECT.

RECOMMENDED... DESIGNER
RECOMMENDED FOR APPROVAL... STATE HIGHWAY ENGINEER
APPROVED... COMMISSIONER OF HIGHWAYS

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W.V.	05	X312-H-93.37	APD-0484 (236)C	2006	GRANT	2	389



CORRIDOR H, TANGENT SECTION
STA. 722+31.78 to STA. 724+69.76
STA. 744+65.08 to STA. 765+20.64

* SEE CROSS SECTIONS FOR SLOPES

** Template Elevation
 The template for the mainline shall be constructed to 20.5" below the profile grade. The template shall be excavated to 28.5" below the profile grade and backfilled with 8" of suitable random material free of particles larger than 3". All pavement and guardrail are shown for information only. See the typical sections for details.

8/2/2007

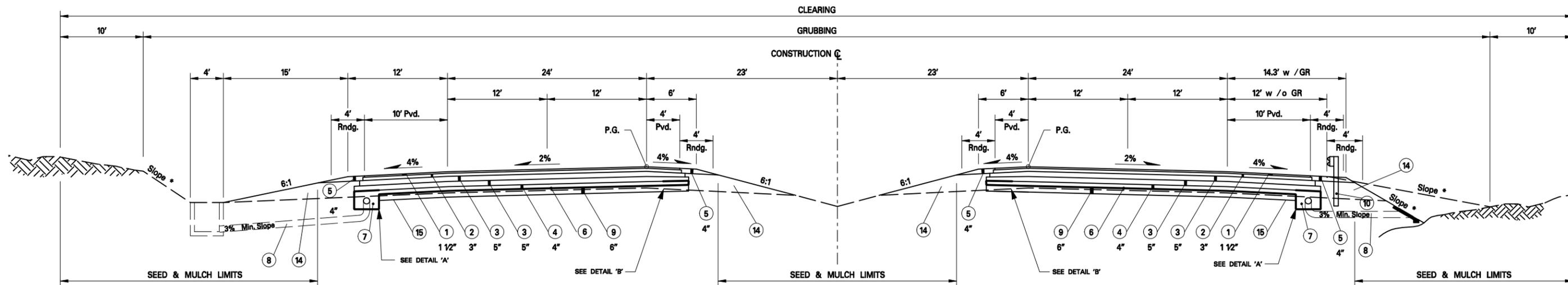
CORRIDOR H  **NEFF, LONGEST, & BEAM and ASSOC., LLC**
 300 Capitol Street, 5th Floor, Kanawha Valley Building
 Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

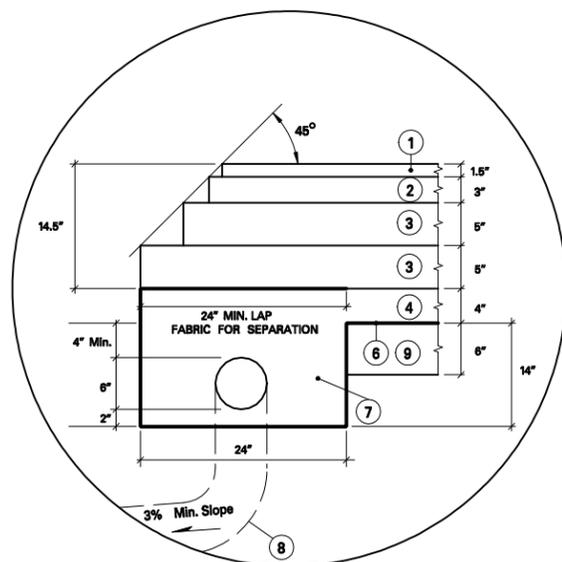
TYPICAL SECTIONS



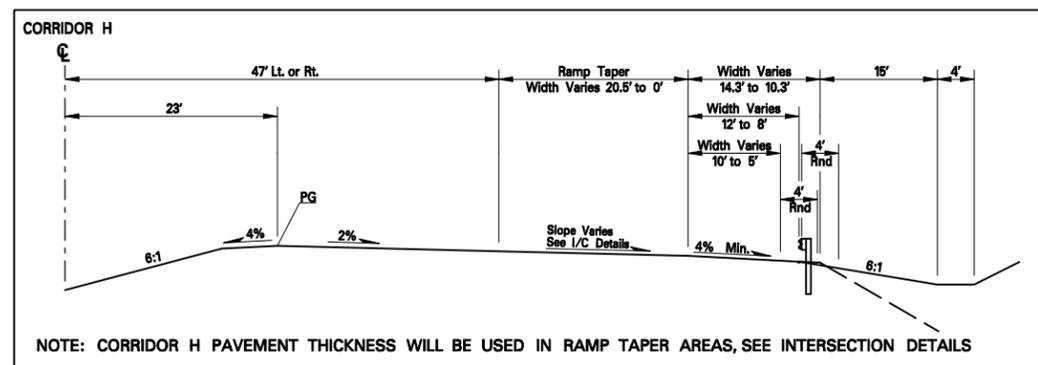
CORRIDOR H, TANGENT SECTION
STA. 765+20.64 TO STA. 782+75.00

LEGEND

ITEM #	DESCRIPTION	UNIT
①	Item 402001-011 Superpave Hot Mix Asphalt Skid Res. Pvmf., SG, Type 9.5	TN
②	Item 401001-011 Superpave Hot Mix Asphalt Base Course, SG, Type 19	TN
③	Item 401001-011 Superpave Hot Mix Asphalt Base Course, SG, Type 37.5	TN
④	Item 311006-001 Open Graded Free Draining Base Course	CY
⑤	Item 307001-000 Aggregate Base Course, Class 10	CY
⑥	Item 207034-000 Fabric for Separation	SY
⑦	Item 606029-001 Free Draining Base Trench	LF
⑧	Item 606030-001 Outlet Pipe, 6 inch	LF
⑨	Item 207002-000 Subgrade	CY
⑩	Item 607001-001 Type 1 Guardrail, Class I	LF
⑪	Item 307001-000 Aggregate Base Course, Class 1	CY
⑫	Item 610001-002 Plain Concrete Curbing, Type II	LF
⑬	Item 609001-001 Concrete Sidewalk	SY
⑭	Item 211001-001 Unclassified Borrow Excavation	CY
⑮	Item 207001-001 Unclassified Excavation	CY



PAVEMENT STEPPING DETAIL



NOTE: CORRIDOR H PAVEMENT THICKNESS WILL BE USED IN RAMP TAPER AREAS, SEE INTERSECTION DETAILS

RAMPS A, B, C, & D TAPERS

CORRIDOR H

* SEE CROSS SECTIONS FOR SLOPES

NEFF, LONGEST, & BEAM and ASSOC., LLC
 300 Capitol Street, 5th Floor, Kanawha Valley Building
 Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

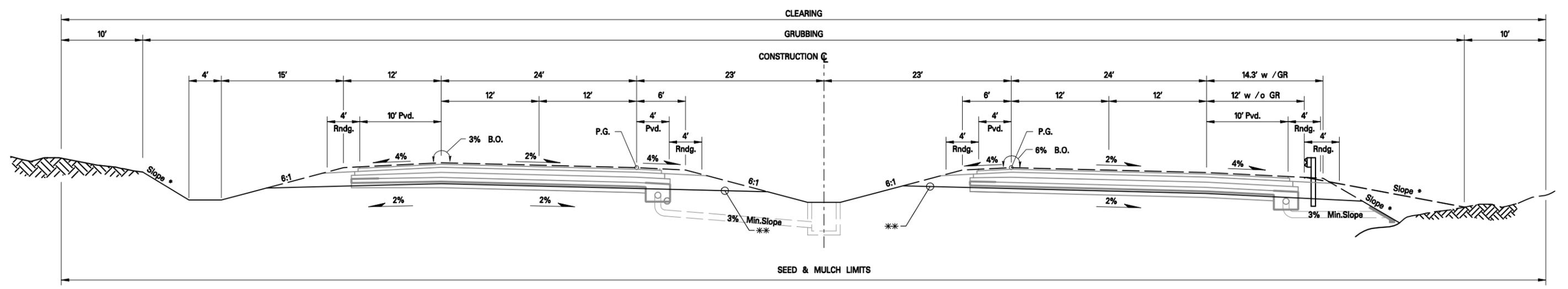
TYPICAL SECTIONS

NOT TO SCALE

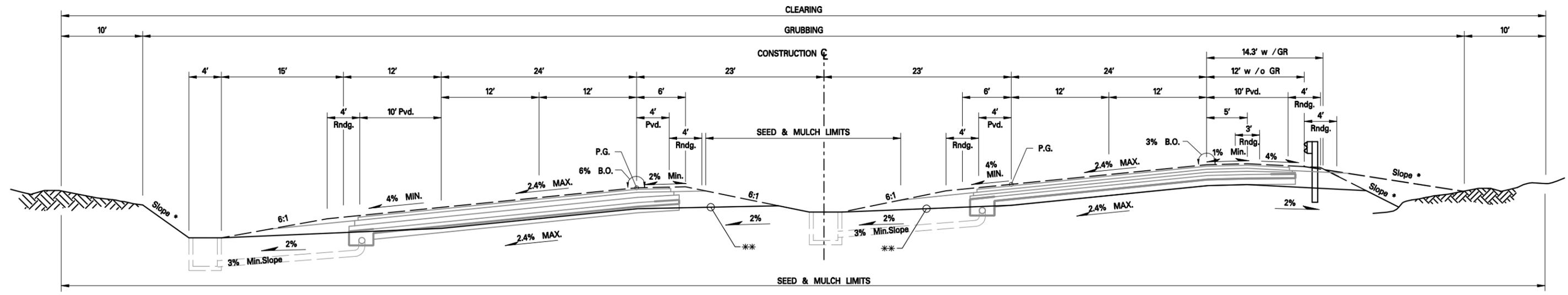
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

8/1/2007

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W.V.	05	X312-H-93.37	APD-0484 (236)C	2006	GRANT	4	389



CORRIDOR H, SUPERELEVATED SECTION (CURVE RIGHT)
STA. 724+69.76 to STA. 744+65.08



CORRIDOR H, SUPERELEVATED SECTION (CURVE LEFT)
STA. 710+50.00 to STA. 722+31.78

* SEE CROSS SECTIONS FOR SLOPES

** Template Elevation
 The template for the mainline shall be constructed to 20.5" below the profile grade. The template shall be excavated to 28.5" below the profile grade and backfilled with 8" of suitable random material free of particles larger than 3". All pavement and guardrail are shown for information only. See the typical sections for details.

8/1/2007

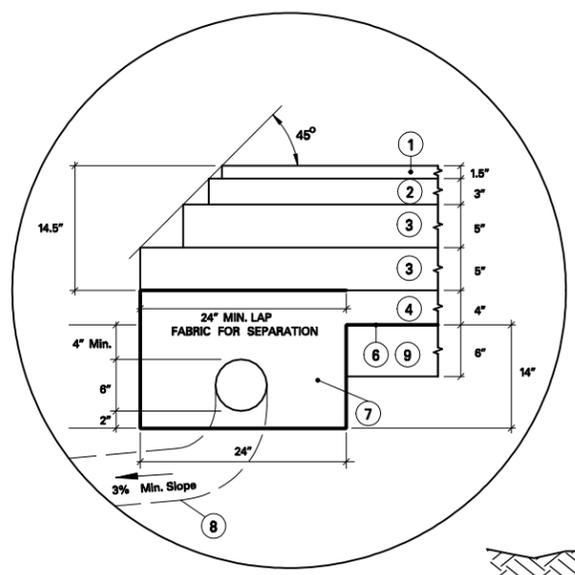
CORRIDOR H  **NEFF, LONGEST, & BEAM and ASSOC., LLC**
 300 Capitol Street, 511 Kanawha Valley Building
 Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

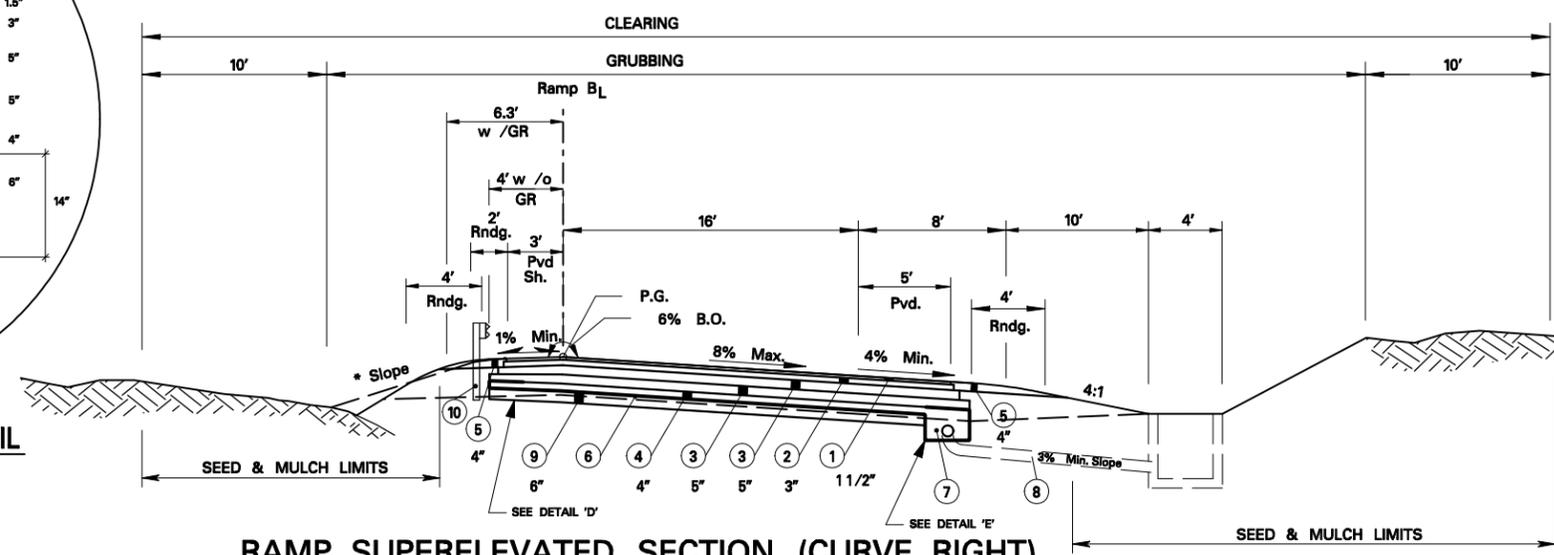
NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

TYPICAL SECTIONS



PAVEMENT STEPPING DETAIL



RAMP SUPERELEVATED SECTION (CURVE RIGHT)

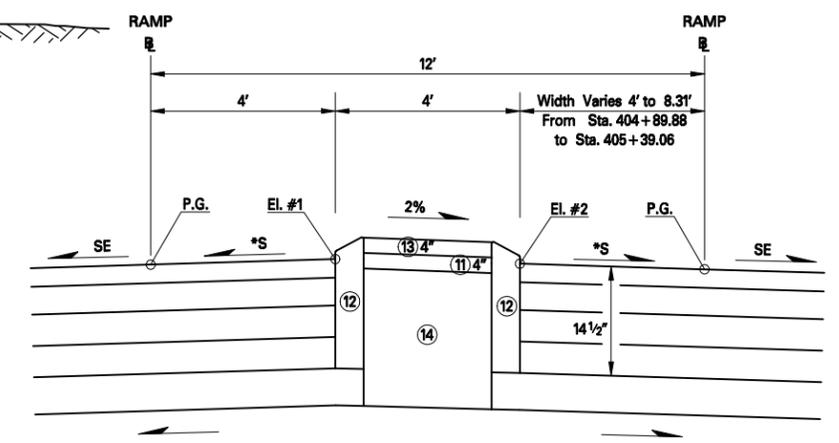
Sta. 100+00.00 to Sta. 110+76.17, Ramp A
 Sta. 200+19.00 to Sta. 206+66.22, Ramp B
 Sta. 300+00.00 to Sta. 309+13.59, Ramp C
 Sta. 400+19.00 to Sta. 400+97.93, Ramp D
 Sta. 405+98.55 to Sta. 414+96.50, Ramp D

NOTE: THE RAISED MEDIAN SHALL BE CONSTRUCTED USING RAMP A BASELINE, PROFILE, AND SUPERELEVATION TO DETERMINE EL. #1 AND EL. #2.

EL. #1 = RAMP A PG +4(S)
 EL. #2 = EL. #1 - 4(0.02)

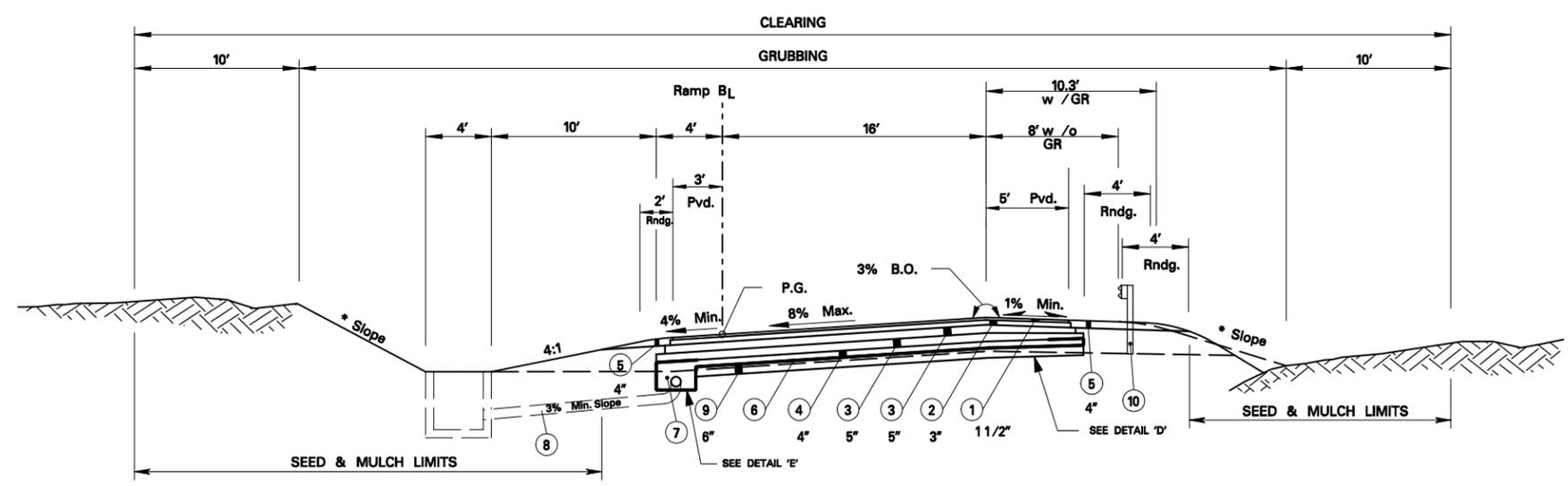
*SHOULDER CROSS SLOPE (S) SHALL BE:

RAMP A SE > 1%, S=1%
 RAMP A SE < 1%, S = RAMP A SE



RAMP MEDIAN

STA. 109+50 to STA. 110+65, RAMP A =
 STA. 200+59.15 to 201+72.06, RAMP B
 STA. 306+15 to STA. 310+83.04, RAMP C =
 STA. 400+60 to STA. 405+40.68, RAMP D



RAMP SUPERELEVATED SECTION (CURVE LEFT)

Sta. 110+76.17 to Sta. 111+05.15, Ramp A
 Sta. 309+13.59 to Sta. 309+88.92, Ramp C
 Sta. 400+97.93 to Sta. 405+98.55, Ramp D

LEGEND

ITEM #	DESCRIPTION	UNIT
①	Item 402001-011 Superpave Hot Mix Asphalt Skid Res. Pvmt., SG, Type 9.5	TN
②	Item 401001-011 Superpave Hot Mix Asphalt Base Course, SG, Type 19	TN
③	Item 401001-011 Superpave Hot Mix Asphalt Base Course, SG, Type 37.5	TN
④	Item 311006-001 Open Graded Free Draining Base Course	CY
⑤	Item 307001-000 Aggregate Base Course, Class 10	CY
⑥	Item 207034-000 Fabric for Separation	SY
⑦	Item 606029-001 Free Draining Base Trench	LF
⑧	Item 606030-001 Outlet Pipe, 6 inch	LF
⑨	Item 207002-000 Subgrade	CY
⑩	Item 607001-001 Type 1 Guardrail, Class I	LF
⑪	Item 307001-000 Aggregate Base Course, Class 1	CY
⑫	Item 610001-002 Plain Concrete Curbing, Type II	LF
⑬	Item 609001-001 Concrete Sidewalk	SY
⑭	Item 211001-001 Unclassified Borrow Excavation	CY
⑮	Item 207001-001 Unclassified Excavation	CY

* SEE CROSS SECTIONS FOR SLOPES

RAMPS A, B, C, D

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 300 Capitol Street, 5th Floor, Kanawha Valley Building
 Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

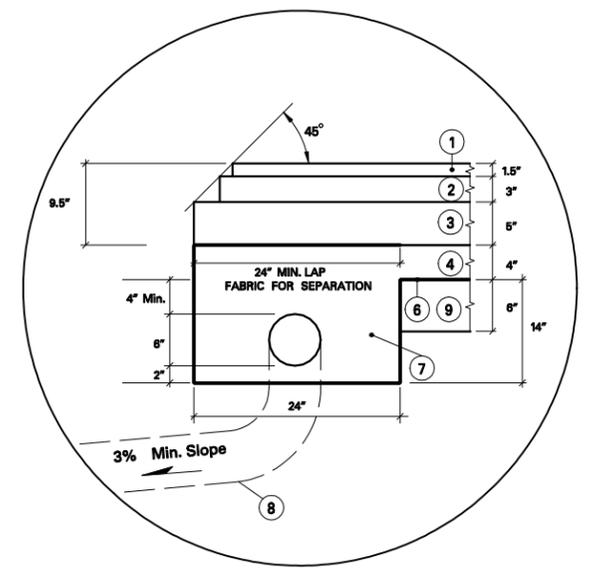
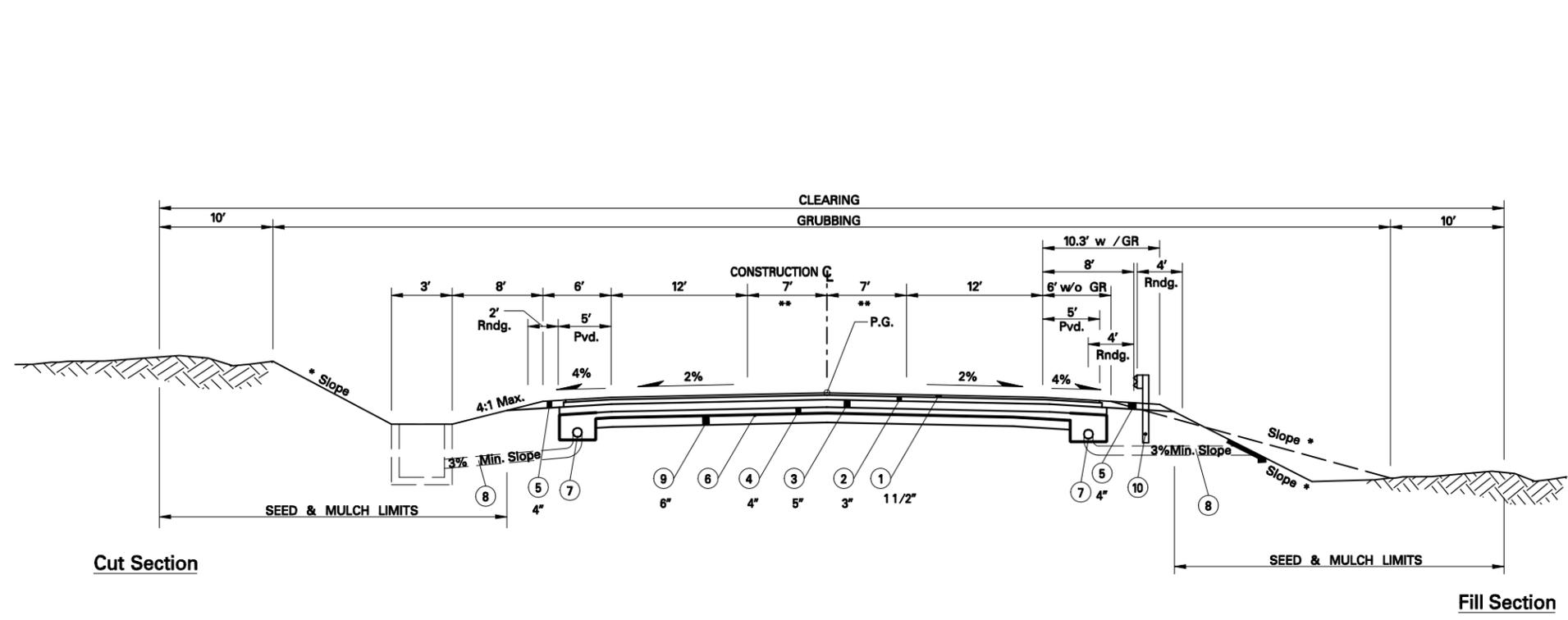
TYPICAL SECTIONS

NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

8/1/2007

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W.V.	05	X312-H-93.37	APD-0484 (236)C	2006	GRANT	7	389



GRANT COUNTY ROUTE 5, TANGENT SECTION
 Sta. 31+34.18 to Sta. 32+16.12
 Sta. 39+47.57 to Sta. 49+09.22

LEGEND

ITEM #	DESCRIPTION	UNIT
①	Item 402001-011 Superpave Hot Mix Asphalt Skid Res. Pvmt., SG, Type 9.5	TN
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⑫	Item 610001-002 Plain Concrete Curbing, Type II	LF
⑬	Item 609001-001 Concrete Sidewalk	SY
⑭	Item 211001-001 Unclassified Borrow Excavation	CY
⑮	Item 207001-001 Unclassified Excavation	CY

* SEE CROSS SECTIONS
 ** STA. 27+20 TO STA. 30+00 WIDTH VARIES FROM 0' TO 7' @ 40:1
 STA. 47+00 TO STA. 49+80 WIDTH VARIES FROM 7' TO 0' @ 40:1

8/1/2007

NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

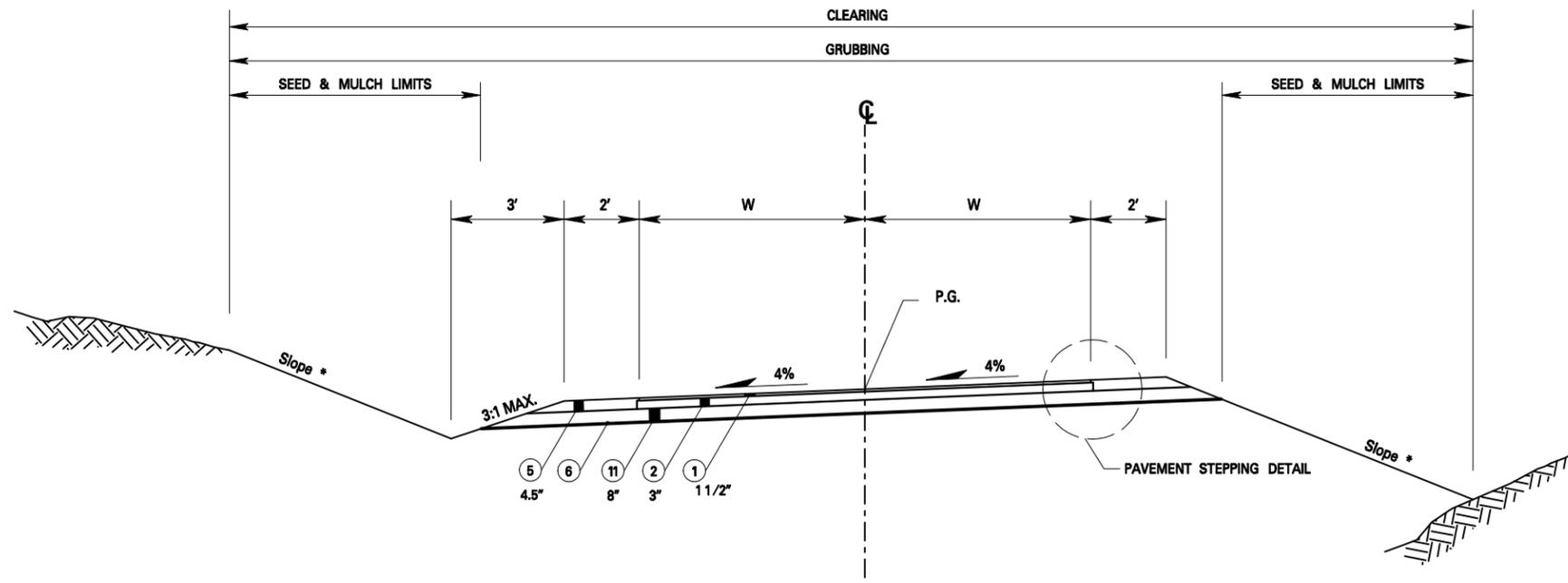
CR5

NEFF, LONGEST, & BEAM and ASSOC., LLC
 300 Capitol Street, 5th Floor, Kanawha Valley Building
 Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

TYPICAL SECTIONS

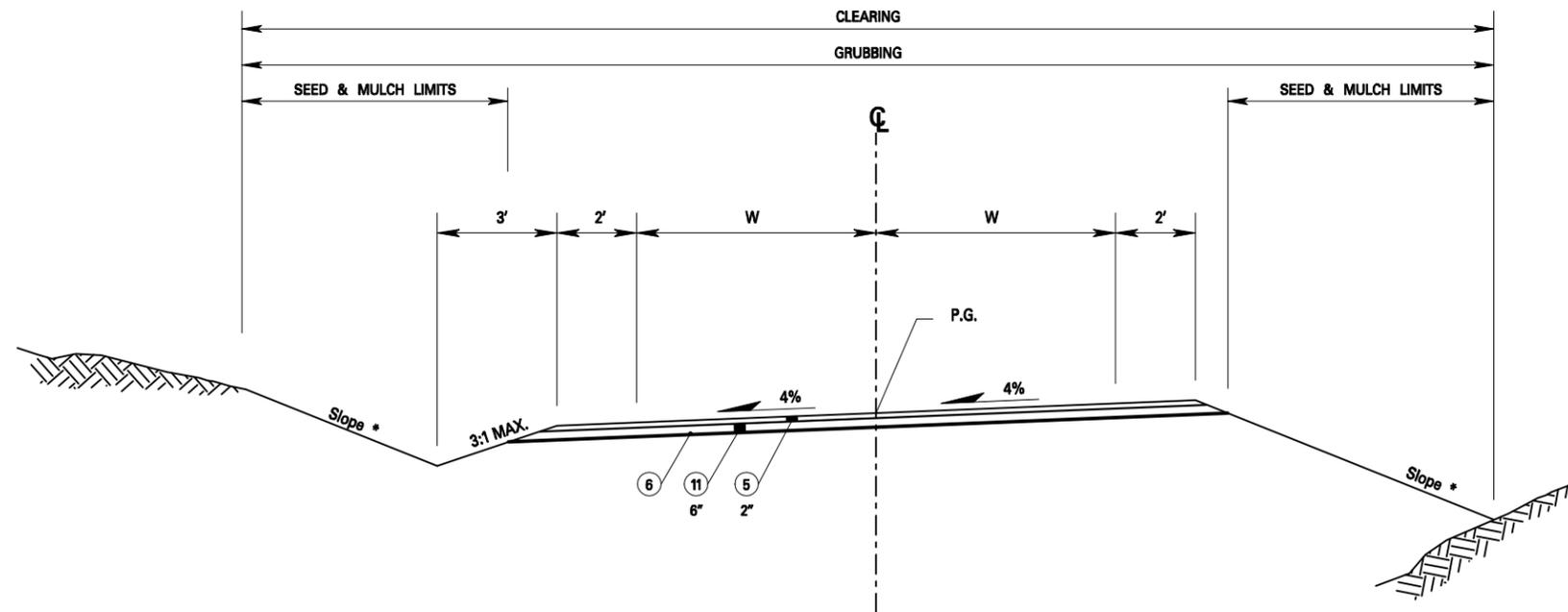
Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W.V.	05	X312-H-93.37	APD-0484 (236)C	2006	GRANT	8	389



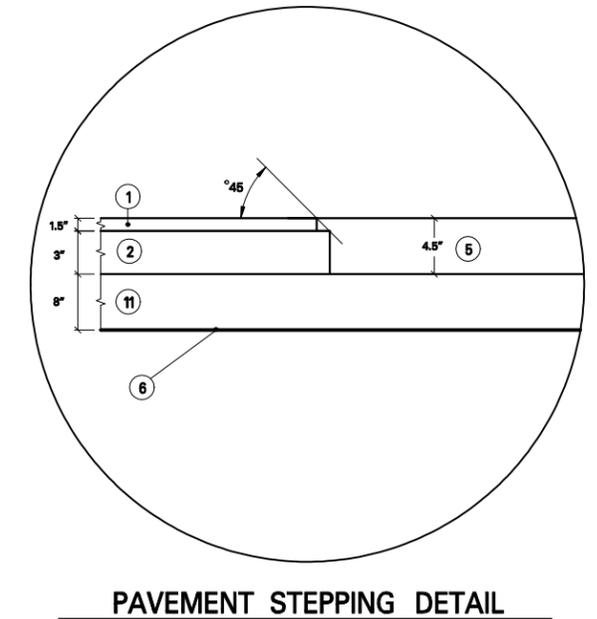
ACCESS ROAD	STA. to STA.	W	REMARKS
Driveway #2	1+00 1+90	8'	ASPHALT

LEGEND

ITEM #	DESCRIPTION	UNIT
①	Item 402001-011 Superpave Hot Mix Asphalt Skid Res. Pvmf., SG, Type 9.5	TN
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⑮	Item 207001-001 Unclassified Excavation	CY



ACCESS ROAD	STA. to STA.	W	REMARKS
Driveway #4	94 + 25 95 + 36	6'	GRAVEL



* SEE CROSS SECTIONS

ACCESS ROADS

NEFF, LONGEST, & BEAM and ASSOC., LLC
300 Capitol Street, 5th Floor, Kanawha Valley Building
Charleston, WV 25301

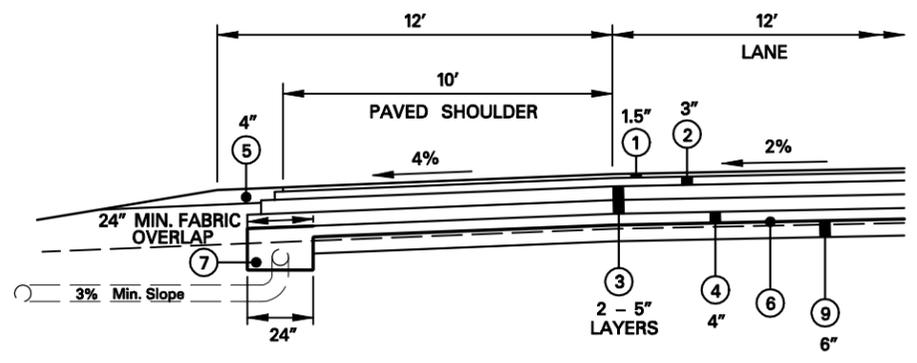
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPICAL SECTIONS

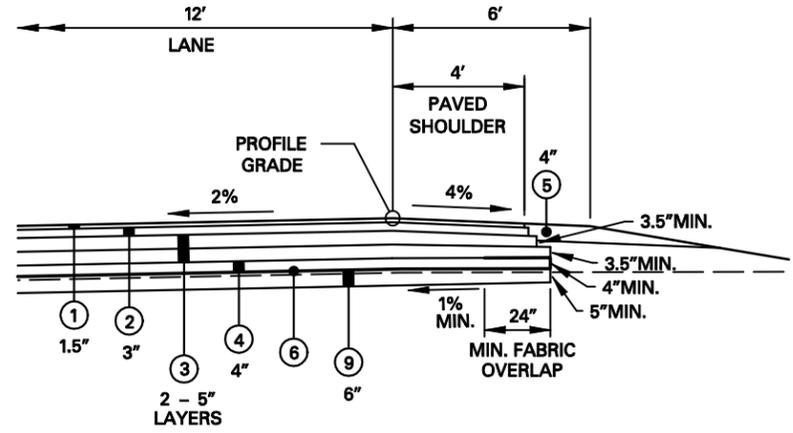
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

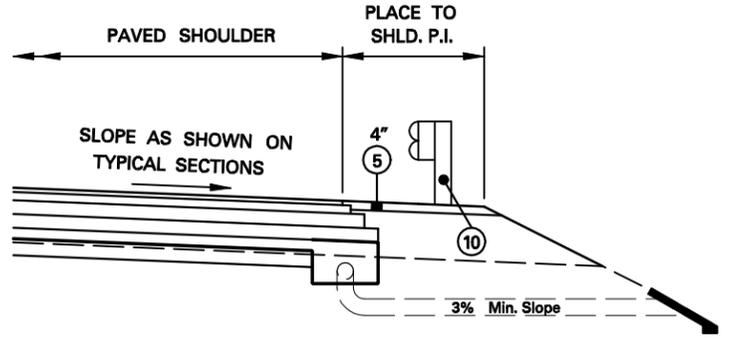
8/1/2007



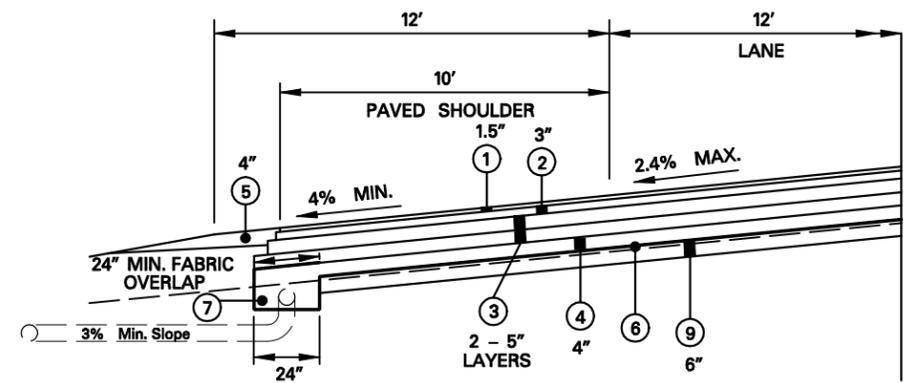
DETAIL 'A'



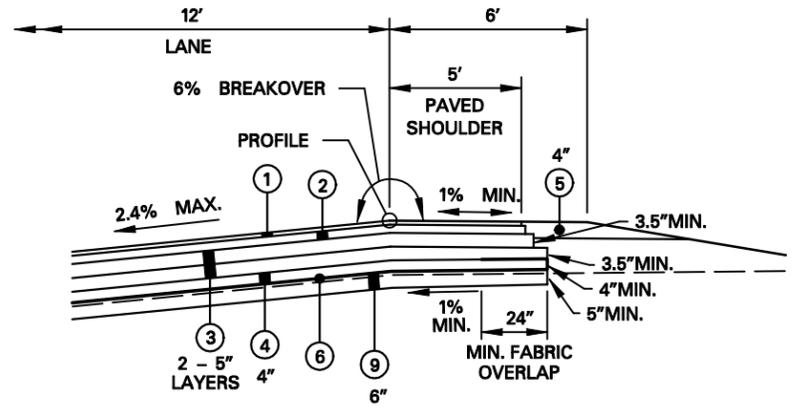
DETAIL 'B'



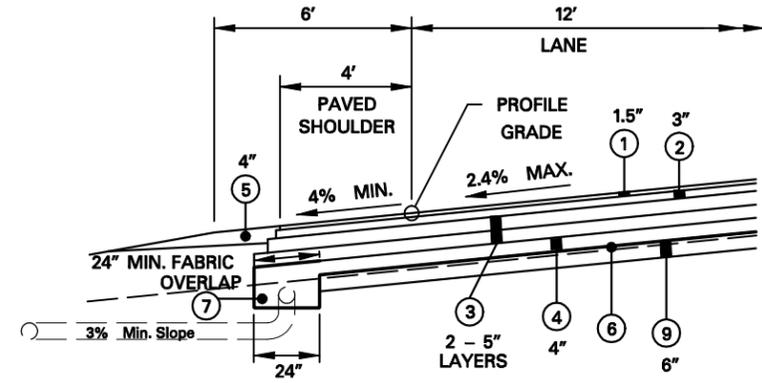
SHOULDER TREATMENT WITH GUARDRAIL



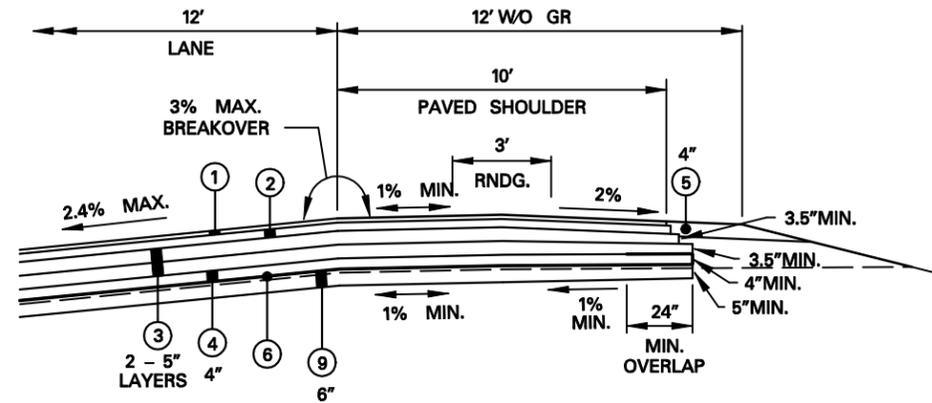
DETAIL 'C'



DETAIL 'D'



DETAIL 'E'



DETAIL 'F'

LEGEND

ITEM #	DESCRIPTION	UNIT
①	Item 402001-011 Superpave Hot Mix Asphalt Skid Res. Pvmf., SG, Type 9.5	TN
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⑭	Item 211001-001 Unclassified Borrow Excavation	CY
⑮	Item 207001-001 Unclassified Excavation	CY

NOTE: ON THE HIGH-SIDE OUTSIDE PAVED SHOULDER OF CORRIDOR H WHEN PAVEMENT CROSS SLOPE IS $\geq 1\%$ SLOPING TOWARD THE MEDIAN, DISCONTINUE THE FDB TRENCH AND BEGIN TAPERING THE THICKNESS OF THE HMA BASE COURSE, TYPE I, TO PROVIDE POSITIVE DRAINAGE IN THE FDB LAYER.

ON THE HIGH-SIDE 3FT. OR 5FT. PAVED SHOULDER OF THE IC RAMPS THE HMA BASE COURSE LAYERS WILL BE TAPERED TO THE MINIMUM THICKNESS SHOWN IN DETAILS 'B' AND 'D' TO PROVIDE POSITIVE DRAINAGE IN THE FDB LAYER.

PAVED SHOULDER DETAILS

NEFF, LONGEST, & BEAM and ASSOC., LLC
300 Capitol Street, 511 Kanawha Valley Building
Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPICAL SECTIONS

NOT TO SCALE

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

8/1/2007

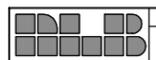
SUMMARY OF QUANTITIES

ITEM NUMBER	PRINCIPAL OR ALTERNATE	DESCRIPTION	UNIT	TOTAL
ROADWAY				
201001-000		CLEARING AND GRUBBING	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 12/1	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 12/2	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 8/1	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 8/2	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 8/3	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 8/4	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 8/5	LS	1
202001-000		BUILDING DEMOLITION NUMBER, 8/6	LS	1
202002-000		WATER WELL ABANDONMENT NUMBER, 12/4	LS	1
202002-000		WATER WELL ABANDONMENT NUMBER, 8/7	LS	1
202003-000		SEPTIC TANK ABANDONMENT NUMBER, 12/3	LS	1
204001-000		MOBILIZATION	LS	1
207001-001		UNCLASSIFIED EXCAVATION	CY	1,223.398
207002-000		SUBGRADE	CY	5,653
207034-000		FABRIC FOR SEPARATION	SY	51,071
211001-000		UNCLASSIFIED BORROW EXCAVATION	CY	463
211002-000		ROCK BORROW EXCAVATION	CY	10,340
211008-000		ROCK BORROW EXCAVATION	TN	840
211017-001		IMPERVIOUS CORE	SF	8,093
307001-000		AGGREGATE BASE COURSE, CLASS 1	CY	164
307001-000		AGGREGATE BASE COURSE, CLASS 10	CY	897
311006-001		OPEN GRADED FREE DRAINING BASE COURSE	CY	5,648
502001-012		12 INCH PORTLAND CEMENT CONCRETE APPROACH SLAB	SY	388
601002-001		CLASS B CONCRETE	CY	129
601009-001		CLASS H CONCRETE	CY	46
601009-003		CLASS H CONCRETE, ARCHITECTURAL	CY	34
602002-001		EPOXY COATED REINFORCING STEEL BAR	LB	8,092
604001-020		24 INCH METALLIC COATED CORRUGATED STEEL PIPE, A2	LF	162
604001-024		36 INCH METALLIC COATED CORRUGATED STEEL PIPE, A2	LF	46
604001-028		48 INCH METALLIC COATED CORRUGATED STEEL PIPE, A2	LF	90
604001-030		54 INCH METALLIC COATED CORRUGATED STEEL PIPE, A2	LF	89
605004-001		TYPE B INLET	EA	3
605009-001		TYPE G INLET	EA	37
606022-001		CRUSHED STONE, GRAVEL, OR SILICA SAND FOR UNDERDRAIN	CY	87
606025-004		6 INCH UNDERDRAIN PIPE	LF	710
606029-001		FREE DRAINING BASE TRENCH	LF	11,113
606030-001		OUTLET PIPE, 6 INCH	LF	4,656
607001-001		TYPE 1 GUARDRAIL, CLASS I	LF	4,657
607005-001		TYPE 5 GUARDRAIL, CLASS I	LF	225
607006-001		THREE BEAM GUARDRAIL BRIDGE TRANSITION	EA	8
607025-001		CUT SLOPE TERMINAL, TYPE A	EA	1
607030-001		SPECIAL TRAILING END TERMINAL	EA	4
607065-001		FLARED END TERMINAL	EA	5
607067-001		DOUBLE FACED END TERMINAL	EA	1
608002-001		3 FT X 11 IN RIGHT-OF-WAY FENCE, FARM FIELD	LF	17,690
608003-001		3 FT X 11 IN TEMPORARY FENCE	LF	6,650
609001-001		CONCRETE SIDEWALK	SY	181
610001-002		PLAIN CONCRETE CURBING, TYPE II	LF	1,412
633001-001		CONCRETE GUTTER	SY	125
633003-001		DUMPED ROCK GUTTER	CY	1,469
636002-001		AGGREGATE FOR MAINTAINING TRAFFIC, STONE OR GRAVEL	TN	100
636007-001		ERADICATION OF PAVEMENT MARKING	LF	2,000
636008-001		TEMPORARY PAVEMENT MARKING-PAINT 4 IN SOLID LINE	LF	13,200
636009-001		TEMPORARY PAVEMENT MARKING-TAPE 4 IN SOLID LINE	LF	1,200
636011-001		TRAFFIC CONTROL DEVICE	UN	8,410
636012-010		PROJECT TRAFFIC CONTROL DEVICE CLEANING	EA	2
636013-001		INDIVIDUAL TRAFFIC CONTROL DEVICE CLEANING	EA	200
636014-001		FLAGGER	HR	500
636025-001		WARNING LIGHTS, TYPE B	DA	3,200

SUMMARY OF QUANTITIES

ITEM NUMBER	PRINCIPAL OR ALTERNATE	DESCRIPTION	UNIT	TOTAL
ROADWAY (CONTINUED)				
637001-001		WATER FOR DUST PALLIATIVE	MG	2,448
638002-001		RIGHT OF WAY MARKER	EA	68
638003-001		SURVEY MARKER	EA	19
638004-001		OUTLET MARKER	EA	10
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
640002-001		LARGE FIELD OFFICE AND STORAGE BUILDING	MO	24
640003-001		BUILDING EQUIPMENT	LS	1
642001-001		TEMPORARY BERM	LF	16,025
642002-001		SLOPE DRAIN	LF	1,280
642004-001		SEED MIXTURE, TEMPORARY	LB	7,799
642004-002		SEED MIXTURE, B	LB	9,646
642004-003		SEED MIXTURE, D	LB	6,418
642005-001		MULCH, STRAW OR HAY	TN	521
642005-002		MULCH, WOOD CELLULOSE FIBER	TN	2
642006-001		FERTILIZER	TN	104
642007-001		FIBER MATTING	SY	18,450
642008-001		TEMPORARY PIPE, 6 INCH	LF	600
642009-001		CONTOUR DITCH	LF	41,968
642010-001		AGRICULTURAL LIMESTONE	TN	98
642011-001		HAY OR STRAW BALE	EA	1,168
642012-001		SILT FENCE	LF	19,580
642015-001		SUPER SILT FENCE	LF	1,385
642031-001		DITCH CHECK	EA	962
642033-001		SEDIMENT TRAP	CY	791
642035-001		RISER	EA	5
642036-001		SEDIMENT REMOVAL	CY	13,106
642040-001		INLET PROTECTION	EA	41
642042-001		FLOCCULANT BLOCK	EA	62
642050-001		DEWATERING DEVICE	EA	22
652001-001		AGRICULTURAL LIMESTONE	TN	9
652002-001		FERTILIZER, 10-20-10	TN	42
652002-002		FERTILIZER, UREA FORMALDEHYDE	TN	13
652003-001		SEED MIXTURES, B, C-1, OR C-2	LB	8,136
652003-002		SEED MIXTURE, D	LB	5,626
652004-001		STRAW OR HAY MULCH	TN	168
652004-002		WOOD CELLULOSE FIBER MULCH	TN	63
655002-001		PERMANENT EROSION MATTING, TYPE A	SY	1,033
655002-001		PERMANENT EROSION MATTING, TYPE B	SY	1,056
699000-001		ON JOB TRAINING	HR	2,000

8/2/2007



NEFF, LONGEST, & BEAM and ASSOC., LLC
 300 Capitol Street, 5th Kanawha Valley Building
 Charleston, WV 25301

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

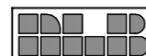
SUMMARY OF QUANTITIES

ITEM NUMBER	PRINCIPAL OR ALTERNATE	DESCRIPTION	UNIT	TOTAL
ROADWAY ALTERNATES				
401001-011	AA1	SUPERPAVE HOT-MIX ASPHALT BASE COURSE, STONE OR GRAVEL, TYPE 37.5	TN	19,863
401001-012	AA2	SUPERPAVE HOT-MIX ASPHALT BASE COURSE, SLAG, TYPE 37.5	TN	18,960
401001-011	AA3	SUPERPAVE HOT-MIX ASPHALT BASE COURSE, STONE OR GRAVEL, TYPE 19	TN	6,820
401001-012	AA4	SUPERPAVE HOT-MIX ASPHALT BASE COURSE, SLAG, TYPE 19	TN	6,510
402001-011	BB1	SUPERPAVE HOT-MIX ASPHALT SKID RESISTANT PAVEMENT, STONE OR GRAVEL, TYPE 9.5	TN	3,430
402001-012	BB2	SUPERPAVE HOT-MIX ASPHALT SKID RESISTANT PAVEMENT, SLAG, TYPE 9.5	TN	3,236
604002-016	CC1	18 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	322
604037-016	CC2	18 INCH REINFORCED CONCRETE PIPE, CLASS II	LF	322
604076-016	CC3	18 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	322
604002-020	DD1	24 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	218
604009-020	DD1	24 INCH CORRUGATED STEEL PIPE END SECTION	EA	2
604037-020	DD2	24 INCH REINFORCED CONCRETE PIPE, CLASS IV	LF	218
604038-020	DD2	24 INCH REINFORCED CONCRETE PIPE END SECTION	EA	2
604076-020	DD3	24 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	218
604009-020	DD3	24 INCH CORRUGATED STEEL PIPE END SECTION	EA	2
604002-020	EE1	24 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	4,571
604009-020	EE1	24 INCH CORRUGATED STEEL PIPE END SECTION	EA	5
604037-020	EE2	24 INCH REINFORCED CONCRETE PIPE, CLASS II	LF	4,571
604038-020	EE2	24 INCH REINFORCED CONCRETE PIPE END SECTION	EA	5
604076-020	EE3	24 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	4,571
604009-020	EE3	24 INCH CORRUGATED STEEL PIPE END SECTION	EA	5
604002-020	FF1	24 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	268
604009-020	FF1	24 INCH CORRUGATED STEEL PIPE END SECTION	EA	4
604037-020	FF2	24 INCH REINFORCED CONCRETE PIPE, CLASS III	LF	268
604038-020	FF2	24 INCH REINFORCED CONCRETE PIPE END SECTION	EA	4
604076-020	FF3	24 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	268
604009-020	FF3	24 INCH CORRUGATED STEEL PIPE END SECTION	EA	4
604002-022	GG1	30 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	1,122
604037-022	GG2	30 INCH REINFORCED CONCRETE PIPE, CLASS II	LF	1,122
604076-022	GG3	30 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	1,122
604002-022	HH1	30 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	114
604009-022	HH1	30 INCH CORRUGATED STEEL PIPE END SECTION	EA	1
604037-022	HH2	30 INCH REINFORCED CONCRETE PIPE, CLASS III	LF	114
604038-022	HH2	30 INCH REINFORCED CONCRETE PIPE END SECTION	EA	1
604076-022	HH3	30 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	114
604009-022	HH3	30 INCH CORRUGATED STEEL PIPE END SECTION	EA	1
604002-022	JJ1	30 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	302
604009-022	JJ1	30 INCH CORRUGATED STEEL PIPE END SECTION	EA	3
604037-022	JJ2	30 INCH REINFORCED CONCRETE PIPE, CLASS V	LF	302
604038-022	JJ2	30 INCH REINFORCED CONCRETE PIPE END SECTION	EA	3
604076-022	JJ3	30 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	302
604009-022	JJ3	30 INCH CORRUGATED STEEL PIPE END SECTION	EA	3
604002-024	KK1	36 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	350
604037-024	KK2	36 INCH REINFORCED CONCRETE PIPE, CLASS II	LF	350
604076-024	KK3	36 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	350
604002-028	LL1	48 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A7	LF	475
604037-028	LL2	48 INCH REINFORCED CONCRETE PIPE, CLASS II	LF	475
604076-028	LL3	48 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A7	LF	475
604002-030	MM1	54 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, A3	LF	327
604076-030	MM2	54 INCH ALUMINUM COATED CORRUGATED STEEL PIPE A3	LF	327
604002-040	NN1	84 INCH FULL BITUMINOUS COATED CORRUGATED STEEL PIPE, C5	LF	422
604076-040	NN2	84 INCH ALUMINUM COATED CORRUGATED STEEL PIPE C5	LF	422
410001-001	PP1	ROLLED RUMBLE STRIP	LF	15,200
410001-002	PP2	SAWED RUMBLE STRIP	LF	15,200

SUMMARY OF QUANTITIES

ITEM NUMBER	PRINCIPAL OR ALTERNATE	DESCRIPTION	UNIT	TOTAL
COMPUTER SYSTEM				
640004-001		COMPUTER SYSTEM FOR FIELD OFFICE	LS	1
BRIDGE NO. 10425 (CR5)				
601002-001		CLASS B CONCRETE	CY	56
601009-001		CLASS H CONCRETE	CY	428
601009-003		CLASS H CONCRETE, ARCHITECTURAL	CY	35
602001-001		REINFORCING STEEL BAR	LB	8,128
602002-001		EPOXY COATED REINFORCING STEEL BAR	LB	85,188
615001-001		STEEL SUPERSTRUCTURE	LS	1
616005-017		HP14X89 STEEL BEARING PILE, PRE-DRILLED AND DRIVEN	LF	300
617003-001		ALUMINUM RAILING	LF	665
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
BRIDGE NO. 10425 (CR 5) ALTERNATES				
626002-001	BA1	MSE RETAINING WALL, RETAINED EARTH	SF	7,793
626002-002	BA2	MSE RETAINING WALL, REINFORCED EARTH	SF	7,793
626002-003	BA3	MSE RETAINING WALL, ISOGRID	SF	7,793
626002-004	BA4	MSE RETAINING WALL, MSE PLUS	SF	7,793
626002-005	BA5	MSE RETAINING WALL, ARES	SF	7,793
626002-006	BA6	MSE RETAINING WALL, TRICON	SF	7,793
CULVERT NO. 10426				
211002-000		ROCK BORROW EXCAVATION	CY	90
212001-000		STRUCTURE EXCAVATION	CY	1,203
601006-001		CLASS D CONCRETE	CY	120
618004-001		WINGWALL FOR CONCRETE CULVERT	EA	4
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
CULVERT NO. 10426 ALTERNATES				
618001-001	BC1	PRECAST REINFORCED CONCRETE ARCH-TOPPED CULVERT, BEBO TECH	LF	180
618001-001	BC2	PRECAST REINFORCED CONCRETE ARCH-TOPPED CULVERT, CONSPAN	LF	180
618002-001	BC3	PRECAST REINFORCED CONCRETE FLAT-TOPPED CULVERT, OMEGA	LF	180
618002-001	BC4	PRECAST REINFORCED CONCRETE FLAT-TOPPED CULVERT, SHOWSPAN	LF	180
618002-001	BC5	PRECAST REINFORCED CONCRETE FLAT-TOPPED CULVERT, 3-SIDED BOX	LF	180
618003-001	BC6	CAST-IN-PLACE REINFORCED CONCRETE CULVERT.	LF	180
CULVERT NO. 10461				
211002-000		ROCK BORROW EXCAVATION	CY	90
212001-000		STRUCTURE EXCAVATION	CY	747
601006-001		CLASS D CONCRETE	CY	30
618004-001		WINGWALL FOR CONCRETE CULVERT	EA	4
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
CULVERT NO. 10461 ALTERNATES				
618001-001	BD1	PRECAST REINFORCED CONCRETE ARCH-TOPPED CULVERT, BEBO TECH	LF	125
618001-001	BD2	PRECAST REINFORCED CONCRETE ARCH-TOPPED CULVERT, CONSPAN	LF	125
618002-001	BD3	PRECAST REINFORCED CONCRETE FLAT-TOPPED CULVERT, OMEGA	LF	125
618002-001	BD4	PRECAST REINFORCED CONCRETE FLAT-TOPPED CULVERT, SHOWSPAN	LF	125
618002-001	BD5	PRECAST REINFORCED CONCRETE FLAT-TOPPED CULVERT, 3-SIDED BOX	LF	125
618003-001	BD6	CAST-IN-PLACE REINFORCED CONCRETE CULVERT.	LF	125

7/23/2007



NEFF, LONGEST, & BEAM and ASSOC., LLC
 300 Capitol Street, 5th Kanawha Valley Building
 Charleston, WV 25301

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

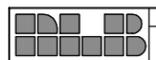
SUMMARY OF QUANTITIES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W.V.	05	X312-H-93.37	APD-0484 (236)C	2006	GRANT	11 A	389

SUMMARY OF QUANTITIES

ITEM NUMBER	PRINCIPAL OR ALTERNATE	DESCRIPTION	UNIT	TOTAL
SIGNING AND PAVEMENT MARKING				
657006-001		S4X7 7, A-441 SUPPORT, GALVANIZED	LF	230
657006-015		W10X22, A-441 SUPPORT, GALVANIZED	LF	47
657008-001		2.00 LB CHANNEL POST	LF	175
657010-001		3.00 LB CHANNEL POST	LF	764
657017-001		CLASS B CONCRETE FOOTING, REINFORCED, ROADSIDE	CY	7.2
661001-001		0,080 IN FLAT SHEET SIGN	SF	449
661002-001		EXTRUDED PANEL SIGN	SF	510
661004-001		DELINEATOR, REFLEX REFLECTOR, SINGLE, WHITE	EA	36
661008-001		DELINEATOR BRACKET, TYPE A	EA	2
661013-001		PLASTIC DELINEATOR POST, WHITE	EA	61
661013-001		PLASTIC DELINEATOR POST, YELLOW	EA	23
663001-004		EDGE LINE, TYPE II, WHITE	LF	7,350
663001-004		EDGE LINE, TYPE II, YELLOW	LF	550
663001-019		EDGE LINE, TYPE IX, WHITE	LF	9,750
663001-019		EDGE LINE, TYPE IX, YELLOW	LF	7,010
663002-005		LANE LINE OR CENTERLINE, TYPE II, WHITE	LF	1,155
663003-005		BARRIER LINE, TYPE II	LF	7,250
663004-004		CHANNELIZING LINE, TYPE II, 6"	LF	475
663005-010		STOP LINE, TYPE V, 24"	LF	95
663007-004		STRIPE, TYPE II, 12"	LF	1,545
663007-010		STRIPE, TYPE V, 24"	LF	700
663010-010		LANE ARROW, TYPE V	EA	7
663011-010		LANE LETTER, TYPE V	EA	16
663012-208		RAISED PAVEMENT MARKER, TYPE P-2	EA	94
LANDSCAPING				
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1
642011-001		STRAW OR HAY BALE	EA	970
651001-001		FURNISHING AND PLACING TOPSOIL	CY	4,775
652001-001		AGRICULTURAL LIMESTONE	TN	1
652002-001		FERTILIZER, 10-20-10	TN	1
652003-006		SEED MIXTURE, WARM SEASON GRASSES	LB	215
652004-001		STRAW OR HAY MULCH	TN	12
654001-001		TREE, DECIDUOUS, ACER RUBRUM	EA	203
654001-001		TREE, DECIDUOUS, ACER SACCHARUM	EA	198
654001-001		TREE, DECIDUOUS, LIRIODENDRON TULIPIFERA	EA	162
654001-001		TREE, DECIDUOUS, PLATANUS OCCIDENTALIS	EA	167
654001-001		TREE, DECIDUOUS, PRUNUS SEROTINA	EA	9
654001-001		TREE, DECIDUOUS, QUERCUS RUBRA	EA	9
654001-001		TREE, DECIDUOUS, ROBINA PSEUDO - ACACIA	EA	62
654001-001		TREE, DECIDUOUS, SALIX NIGRA	EA	1,496
654003-001		SHRUB, DECIDUOUS, AMELANCHIER ARBOREA	EA	291
654003-001		SHRUB, DECIDUOUS, CERCIS CANADENSIS	EA	492
654003-001		SHRUB, DECIDUOUS, SAMBUCUS CANADENSIS	EA	158
654003-001		SHRUB, DECIDUOUS, VIBURNUM PRUNIFOLIUM	EA	23
654005-001		TREE, EVERGREEN, PINUS RIGIDA	EA	40
654006-001		WATER FOR PLANTS	MG	414

5/15/2007



NEFF, LONGEST, & BEAM and ASSOC., LLC
 300 Capitol Street, 5th Kanawha Valley Building
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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

GENERAL NOTES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W.V.	05	X312-H-93.37	APD-0484 (236)C	2006	GRANT	12	389

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2000, AS AMENDED BY THE WEST VIRGINIA DIVISION OF HIGHWAYS SUPPLEMENTAL SPECIFICATION, DATED JANUARY 1, 2003, THE CONTRACT DOCUMENTS, AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

NOTICE TO CONTRACTORS

IT IS TO BE ANTICIPATED THAT OTHER CONTRACTORS WILL BE WORKING IN THIS AREA, AND IT IS IMPERATIVE THAT A STRICT PLAN OF COORDINATION BETWEEN CONTRACTORS BE AGREED ON IN REFERENCE TO WORKING PLANS AND STORAGE AREAS. THIS PLAN OF COORDINATION WILL BE PRESENTED TO THE RESPECTIVE ENGINEERS IN WRITING FOR THEIR REVIEW.

IN ADDITION, THE WVDOH WILL HAVE CONSULTANTS IN THE AREA PERFORMING VARIOUS TESTS, TAKING SAMPLES AND OBSERVING CERTAIN OPERATIONS TO ENSURE THAT THE COMMITMENTS AGREED TO DURING THE FINALIZATION OF THE ENVIRONMENTAL DOCUMENT ARE BEING FOLLOWED.

ALSO REPRESENTATIVES OF THE FOLLOWING STATE AND FEDERAL AGENCIES WILL BE IN THE AREA ON OCCASION TO OBSERVE AND MONITOR THE CONSTRUCTION:

- WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
- WEST VIRGINIA DIVISION OF NATURAL RESOURCES
- WEST VIRGINIA STATE HISTORIC PRESERVATION OFFICE
- UNITED STATES FISH & WILDLIFE SERVICE
- UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
- UNITED STATES ARMY CORPS OF ENGINEERS
- UNITED STATES NATURAL RESOURCES CONSERVATION SERVICE
- ADVISORY COUNCIL OF HISTORIC PRESERVATION
- UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE

WORKING HOURS

NO WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 10:00 PM AND 6:00 AM WITHIN A 600 FEET RADIUS OF A RESIDENTIAL AREA (OCCUPIED RESIDENCE).

EXISTING UTILITIES

THE LOCATION OF ALL KNOWN UTILITIES ARE SHOWN ON THE CONTRACT PLANS BASED ON THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND FIELD INFORMATION. IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THE STATUS AND LOCATION OF EACH UTILITY WHEN PERFORMING WORK WHICH MAY AFFECT THESE FACILITIES, INCLUDING PROBING, EXCAVATION, OR ANY OTHER PRECAUTION REQUIRED TO CONFIRM LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR DISRUPTION TO UTILITY LINES WHICH ARE KNOWN ACTIVE AND ARE TO REMAIN IN OPERATION.

HISTORIC BOUNDARIES

HISTORIC PROPERTIES WITHIN THE CONFINES OF THE PLANS AS PRESENTED HAVE BEEN INDICATED BY CROSS-HATCHING WITHIN THE BOUNDARIES. THERE WILL BE NO WORK PERMITTED ON THESE PROPERTIES AT ANY TIME.

GEOTECHNICAL INFORMATION

A CD WILL BE PROVIDED WITH THE CONTRACT PLANS WHICH INCLUDES REPORTS OF GEOLOGICAL AND SUBSURFACE INVESTIGATIONS. ADDITIONAL INFORMATION MAY BE AVAILABLE.

ANY INQUIRIES SHOULD BE DIRECTED TO:

- ENGINEERING DIVISION
- WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
- DIVISION OF HIGHWAYS, BUILDING 5, ROOM A-317
- 1900 KANAWHA BLVD., EAST
- CHARLESTON, WV 25305

BENCH MARKS

THE CONTRACTOR SHALL ATTEMPT TO HOLD BENCH MARK LOCATIONS THROUGHOUT THE LIFE OF THE PROJECT. IN THE EVENT THAT A BENCH MARK IS DISTURBED, THE CONTRACTOR, AS DIRECTED BY THE PROJECT ENGINEER, WILL RELOCATE OR REESTABLISH THE BENCH MARK. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE MADE FOR THIS WORK.

ROCK OVERSHOOTING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHOOTING THE ROCK DITCHLINE TO THE DESIRED LINES AND GRADES SHOWN ON THE PLANS. ANY OVERSHOOTING SHALL BE REPAIRED IN AN ACCEPTABLE MANNER AT THE CONTRACTORS EXPENSE.

WOOD POST (APPALACHIAN REGION)

ALL GUARDRAIL POSTS AND BLOCKS SHALL BE PRESSURE TREATED WOOD FROM THE APPALACHIAN REGION IN ACCORDANCE WITH SECTION 607 OF THE SPECIFICATIONS. ALL POSTS AND BRACES FOR RIGHT OF WAY FENCE, FARM FIELD TYPE, SHALL BE PRESSURE TREATED WOOD FROM THE APPALACHIAN REGION IN ACCORDANCE WITH SECTION 608 OF THE SPECIFICATIONS.

VERIFICATION OF DIMENSIONS

THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS PRIOR TO ORDERING MATERIALS FOR THE CONSTRUCTION OF VARIOUS BID ITEMS ON THIS PROJECT.

EROSION AND SEDIMENT CONTROL

DETAILS NOT SHOWN IN THE PLANS SHALL BE IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS EROSION AND SEDIMENT CONTROL MANUAL, DATED MARCH 1, 2003. IN THE EVENT THAT TEMPORARY EROSION AND POLLUTION CONTROL MEASURES ARE REQUIRED DUE TO THE CONTRACTORS NEGLIGENCE, CARELESSNESS OR FAILURE TO INSTALL PERMANENT CONTROLS AS PART OF THE WORK AS SCHEDULED, AND ARE ORDERED BY THE ENGINEER, SUCH WORK PERFORMED SHALL BE PERFORMED BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE FIRST ORDER OF WORK FOR THE CONTRACTOR IS TO INSTALL SEDIMENT CONTROL STRUCTURES, SILT FENCE, HAY/STRAW BALES, ETC. TO ESTABLISH EROSION CONTROL AT THE EARLIEST POSSIBLE DATE. INITIAL CLEARING AND GRUBBING IS TO ONLY BE WHAT IS NECESSARY IN ORDER TO ACCOMPLISH THESE OPERATIONS.

IN ADDITION, THE CONTRACTOR IS TO NAME AN INDIVIDUAL TO REVIEW THE EROSION CONTROL FEATURES AT A MINIMUM OF ONCE A WEEK DURING PERIODS OF HEAVY PRECIPITATION AND/OR ACTIVE CONSTRUCTION AND ONCE A MONTH DURING WINTER SHUTDOWN TO ASSESS THE SUCCESS OF THE EROSION CONTROL STRUCTURES, REVEGETATION EFFORTS, AND SEE THAT REPLACEMENT, CLEANING, AND/OR INSTALLATION OF ADDITIONAL FEATURES IF NECESSARY ARE CARRIED OUT.

IN ADDITION TO THE ENVIRONMENTAL MONITOR, PERIODIC INSPECTIONS WILL BE CONDUCTED BY REPRESENTATIVES OF THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, TO ENSURE THAT THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ARE BEING FULFILLED. REPRESENTATIVES OF THE OTHER RESOURCE AGENCIES MAY CONDUCT PERIODIC INSPECTIONS THROUGH THE LIFE OF THE CONTRACT.

ALL SEDIMENT TRAPS OUTSIDE THE PROPOSED ROADWAY TEMPLATE ARE TO BE REMOVED (UNLESS OTHERWISE NOTED) UPON COMPLETION OF THE PROJECT.

SELECT EMBANKMENT NECESSARY FOR CONSTRUCTING SEDIMENT AND EROSION CONTROL FEATURES SHALL BE PAID FOR AS ITEM 211008-000, ROCK BORROW EXCAVATION.

WATER QUALITY

THE CONTRACTOR WILL BE RESPONSIBLE FOR WATER QUALITY THROUGHOUT THE DURATION OF CONSTRUCTION. THE PROJECT ENGINEER WILL WORK CLOSELY WITH THE PROJECT SUPERINTENDENT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING:

1. DEVELOPING AND IMPLEMENTING AN EFFECTIVE EROSION CONTROL PLAN.
2. DIRECTING THE CONSTRUCTION, OPERATION, AND DISMANTLING OF TEMPORARY EROSION CONTROL FEATURES.
3. IMPLEMENTING REMEDIAL ACTION REQUIRED TO REPAIR FAILING EROSION AND SEDIMENTATION CONTROL FEATURES.
4. IMPLEMENTING STORM AND WINTER SHUTDOWN PROCEDURES.
5. WILL SHAPE EARTHWORK PRIOR TO THE SUSPENSION OF GRADING OPERATIONS EACH DAY IN A MANNER THAT WILL PERMIT STORM RUNOFF WITH THE MINIMUM OF EROSION.
6. EROSION CONTROL FEATURES INSTALLED BY THE CONTRACTOR WILL BE OPERATED AND MAINTAINED IN AN ACCEPTABLE CONDITION.
7. WHEN ANY EROSION OR SEDIMENT CONTROL FEATURES HAS REACHED HALF ITS CAPACITY, THE DEVICE IS TO BE CLEANED OUT AND RESTORED TO ITS ORIGINAL CONDITION.

THE CONTRACTOR WILL BE REQUIRED TO PREPARE A SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) PLAN THAT ITEMIZES SPECIFIC MEASURES THAT WILL BE IMPLEMENTED TO PREVENT AND CLEAN UP CHEMICAL AND PETROLEUM PRODUCT SPILLS THAT MAY OCCUR DURING ALL PHASES OF PROJECT CONSTRUCTION. FUEL STORAGE AND REFUELING ACTIVITIES, EQUIPMENT MAINTENANCE ACTIVITIES, AND EQUIPMENT WASHING WILL BE KEPT AT LEAST 500 FEET AWAY FROM ANY PERENNIAL OR INTERMITTENT WATERCOURSE OR WETLAND.

FREE DRAINING BASE

A QUANTITY OF ITEM 606029-001, FREE DRAINING BASE TRENCH, LF, AND 606030-001, OUTLET PIPE, L.F. HAS BEEN CALCULATED AND ADDED TO THE SUMMARY OF QUANTITIES. THE CALCULATIONS WERE MADE BASED ON THE GUIDANCE PROVIDED IN THE STANDARD DETAILS BOOK, VOL I, DATED JAN. 1, 2000. THE CONTRACTOR SHALL USE STANDARD DETAIL DR8 FOR LOCATION, PLACEMENT, AND CONSTRUCTING OF ALL NECESSARY FREE DRAINING BASE.

SELECT EMBANKMENT IN WETLAND AREAS

SELECT EMBANKMENT IN WETLAND AREAS SHALL BE A MINIMUM D50 SIZE OF 18". SELECT EMBANKMENT SHALL BE PLACED IN ACCORDANCE TO SECTION 207.7.3 OF THE STANDARD SPECIFICATIONS. THE COST OF SELECT EMBANKMENT SHALL BE INCLUDED IN ITEM 211002-000, ROCK BORROW EXCAVATION.

TEMPORARY FENCE

THE CONTRACTOR IS TO CONSTRUCT RIGHT OF WAY FENCING OR TEMPORARY FENCING PRIOR TO DOING ANY WORK. THIS WILL APPLY TO AREAS WHERE LIVE STOCK IS TO BE KEPT OUT OF THE CONSTRUCTION AREA. NO QUANTITY HAS BEEN CALCULATED BUT WILL BE PAID UNDER ITEM 608003 TEMPORARY FENCE BY THE LINEAR FOOT.


NEFF, LONGEST, & BEAM and ASSOC., LLC
 300 Capitol Street, 5th Kanawha Valley Building
 Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GENERAL NOTES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

5/15/2007

GENERAL NOTES

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	Fiscal Year	County	Sheet No.	Total Sheets
W.V.	05	X312 -H- 93.37	APD-0484 (236)C	2006	GRANT	13	389

DRAINAGE

THE LOCATION OF ALL KNOWN CULVERTS, INLETS, AND OTHER DRAINAGE ITEMS ON THE CONTRACT PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND FIELD INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE FINAL EXACT LOCATION.

THE CONTRACTOR SHALL MAINTAIN WORKING STORM DRAINAGE SYSTEMS THROUGHOUT THE WORK AREAS AT ALL TIMES DURING CONSTRUCTION, THE WORKING SYSTEM MAY CONSIST OF THE EXISTING STORM DRAINAGE SYSTEM, THE PROPOSED STORM DRAINAGE SYSTEM, OR A COMBINATION THEREOF. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE MADE FOR THIS WORK.

DRAINAGE PIPES FOR THE PROPOSED SYSTEMS SHALL BE CONSTRUCTED IN SECTION LENGTHS NECESSARY TO MAINTAIN THE LANES OF TRAFFIC INDICATED IN THE MAINTENANCE OF TRAFFIC NOTES.

ALL PIPES TO BE EXTENDED SHALL BE CONNECTED WITH A METAL BAND OR CONCRETE COLLAR AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL COMPLETELY REMOVE EXISTING HEADWALLS AND INLETS AFFECTED BY THE EXTENSIONS.

THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINAL ELEVATIONS ON ALL DRAINAGE STRUCTURES. DRAINAGE STRUCTURE ELEVATIONS ARE TO MATCH FINAL ELEVATIONS ON PARKING LOTS, DRIVEWAYS, CURB & GUTTER, AND ROADWAY PAVEMENT.

THE COST OF THE REMOVAL OR PLUGGING OF AN EXISTING PIPE SHALL BE INCLUDED IN ITEM 201001-000 THE COST OF CONNECTING PROPOSED DRAINAGE PIPES TO EXISTING PIPES OR INLETS SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE PROPOSED PIPE.

INLET STAKEOUT CONTROLS

FOR ALL INLET, THE OFFSET FROM CENTERLINE GIVEN IN THE PLANS IS TO THE CENTER OF THE INLET. THE TOP OF GRATE ELEVATIONS GIVEN FOR INLETS IS ALSO AT THE CENTER OF THE GRATE.

VERIFICATION OF CROSS SECTIONS

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING GROUNDLINE AS SHOWN ON THE CROSS SECTIONS PRIOR TO THE START OF ANY CONSTRUCTION.

PIPE, INLET, MANHOLE, HEADWALL, AND GUARDRAIL REMOVAL

ALL EXISTING FEATURES DESCRIBED ABOVE THAT ARE TO BE REMOVED DURING CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ALL VOIDS CREATED BY SUCH REMOVAL SHALL BE FILLED WITH RANDOM MATERIAL AS DIRECTED BY THE ENGINEER. THE COST OF THE REMOVAL AND FILLING OF VOIDS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201001-000, CLEARING AND GRUBBING.

BUILDING DEMOLITION AND ASBESTOS ABATEMENT

MINOR SHEDS WHICH REMAIN WITHIN THE STRUCTURE REMOVAL EASEMENT AT THE TIME OF CONSTRUCTION ARE TO BE REMOVED UNDER ITEM 201001-000, "CLEARING AND GRUBBING".

THE CONTRACTOR IS HEREBY ADVISED THAT IF ASBESTOS ABATEMENT REPORTS ARE NOT AVAILABLE AS OF THE LETTING DATE FOR SOME/ALL OF THE BUILDINGS LISTED ON THE "BUILDING DEMOLITION & ASBESTOS ABATEMENT" TABLE. THEREFORE, THE CONTRACTOR WILL NOT BE ALLOWED TO PERFORM THE BUILDING DEMOLITION ON THOSE BUILDINGS UNTIL SUCH TIME AS THE ASBESTOS INSPECTIONS ARE COMPLETED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

IF THE ASBESTOS INSPECTIONS REVEAL THAT ASBESTOS IS PRESENT IN ANY FORM IN ANY BUILDING TO BE DEMOLISHED, THE REPORT WILL BE MADE AVAILABLE TO THE CONTRACTOR, AND THE CONTRACTOR SHALL ARRANGE FOR THE ASBESTOS ABATEMENT TO BE PERFORMED BY A FIRM LICENSED IN THE STATE OF WEST VIRGINIA TO PERFORM SUCH WORK. THIS WORK, IF REQUIRED, SHALL BE PERFORMED ACCORDING TO THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS SPECIAL PROVISION FOR ASBESTOS ABATEMENT, SECTION 681.

ADDITIONAL PAYMENT FOR ANY REQUIRED ASBESTOS ABATEMENT WILL BE MADE ACCORDING TO THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS, SECTION 104, SCOPE OF WORK.

COORDINATES

COORDINATES SHOWN ON THESE PLANS ARE BASED ON WEST VIRGINIA NORTH ZONE PLANE COORDINATES 1983.

ELEVATIONS

ALL ELEVATIONS SHOWN REFER TO NORTH AMERICAN VERTICAL DATUM 1988.

OPEN-GRADED FREE DRAINING BASE COURSE

THE CONTRACTOR SHALL NOT PERMIT HEAVY EQUIPMENT TO USE THE ROAD BED AFTER THE FREE DRAINING BASE HAS BEEN PLACED. THE SURFACE OF THE FREE DRAINING BASE WILL NOT BE USED AS A HAUL ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY SECTION OF FREE DRAINING BASE, FREE DRAINING BASE TRENCH AND OUTLET PIPE DAMAGED BY CONSTRUCTION ACTIVITIES SUBSEQUENT TO PLACEMENT. DRAINAGE AREAS SUBJECT TO REPLACEMENT SHALL BE DETERMINED BY THE PROJECT ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE MADE FOR THESE REPAIRS.

STRIPPING AND STOCKPILING OF TOP SOIL

THE CONTRACTOR WILL BE REQUIRED TO STRIP TOPSOIL FROM THOSE AREAS WITHIN THE CUT AND FILL LIMITS AND ARE NOT FORESTED OR DESIGNATED WETLANDS. THE TOPSOIL WILL BE DISTRIBUTED ACCORDING TO THE PRIORITIZED LIST BELOW. THE CONTRACTOR IS REQUIRED TO STOCKPILE THIS TOPSOIL. TOPSOIL STOCKPILE WILL BE CLEARLY MARKED WITH IDENTIFICATION SIGNS. TOPSOIL WILL BE STORED SEPARATELY FROM OTHER EARTH MATERIALS TO AVOID CONTAMINATION OR MIXING. IF TOPSOIL IS STOCKPILED FOR MORE THAN ONE WEEK, STOCKPILES ARE TO BE SEEDED WITH A TEMPORARY SEED MIX FROM TABLE 642.5.3.1 "TEMPORARY SEEDING MIXTURES" OF THE WVDOH STANDARD SPECIFICATIONS. RUNOFF SHALL BE DIRECTED AROUND TOPSOIL STOCKPILES TO MINIMIZE EROSION. THIS ITEM TO BE PAID BY ITEM # 651001 "FURNISHING AND PLACING TOPSOIL". THIS BID ITEM WILL INCLUDE STRIPPING, STOCKPILING, ANY SUBSEQUENT HANDLING, AND FINAL PLACEMENT OF TOPSOIL.

PRIORITIZED LIST OF AREAS FOR TOPSOIL DISTRIBUTION:

1. LANDSCAPED SCREENING AREAS (MINIMUM 1' THICKNESS). SEE ALSO LANDSCAPING SPECIAL DETAILS.
2. MEDIANS, SHOULDERS AND DITCH LINES (MINIMUM 6" THICKNESS).
3. FILL SLOPES 3:1 OR FLATTER (MINIMUM 6" THICKNESS).
4. THE LOWEST CUT BENCH (MINIMUM 6" THICKNESS).
5. WASTE SITES (AS DIRECTED BY THE PROJECT ENGINEER).

PAVEMENT UNDERCUT

WHEN MATERIAL IS ENCOUNTERED AT SUBGRADE ELEVATION WHICH CANNOT BE COMPACTED TO THE REQUIRED DENSITY, IT SHALL BE UNDERCUT AND BACKFILLED WITH SELECT EMBANKMENT. THE VOLUME EXCAVATED SHALL BE PAID AS ITEM 207001-001, UNCLASSIFIED EXCAVATION. THE BACKFILL SHALL BE SELECT EMBANKMENT AND BE PAID FOR AS ITEM 211002-000, ROCK BORROW EXCAVATION. THE TOP 6" OF THE BACKFILL SHALL BE MADE WITH PARTICLES NOT LARGER THEN 3". THE DECISION FOR UNDERCUTTING AND THE DEPTH OF THE UNDERCUT WILL BE DETERMINED BY THE ENGINEER.

RUMBLE STRIPS IN PAVED SHOULDERS

RUMBLE STRIPS SHALL BE PLACED IN SHOULDERS UNDER THE FOLLOWING CONDITIONS, IN ACCORDANCE WITH THE SPECIAL DETAIL SHEET:

- TYPICAL SHOULDER WIDTH IS 8' OR MORE.
- MEDIAN SHOULDERS ON DIVIDED HIGHWAYS. IF SHOULDER WIDTH IS 3' OR GREATER.
- SHOULDERS ADJACENT TO ONE WAY RAMPS WHICH CONNECT TO ARTERIAL HIGHWAYS, IF TYPICAL SHOULDER IS 3' OR GREATER.

COST FOR RUMBLE STRIPS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 410001-001 ROLLED RUMBLE STRIP OR ITEM 410001-002 SAWED RUMBLE STRIP PER LINEAR FOOT. SEE SPECIAL DETAIL SHEET.

ENVIRONMENTAL MONITOR

THE WVDOH IS UTILIZING A FULL TIME ENVIRONMENTAL MONITOR ON THE CORRIDOR H PROJECT TO ASSURE THAT MITIGATION COMMITMENTS DEVELOPED IN THE ENVIRONMENTAL IMPACT STATEMENT AND THE DESIGN PROCESS ARE CARRIED OUT THROUGH THE CONSTRUCTION PHASE OF THE PROJECT. THE ENVIRONMENTAL MONITOR FOR THE WVDOH IS CHARLES RILING. MR. RILING CAN BE CONTACTED AT (304) 558-9761 THE ENVIRONMENTAL MONITOR'S RESPONSIBILITIES ARE, BUT NOT LIMITED TO, THE FOLLOWING:

1. REPORT DIRECTLY TO THE STATE HIGHWAY ENGINEER OR HIS DESIGNEE.
2. PARTICIPATE IN THE MANDATORY PRE-BID CONFERENCE AND PRE-CONSTRUCTION MEETING WITH THE CONTRACTORS IN ORDER TO EXPLAIN THE MITIGATION MEASURES AND PERMIT CONDITIONS INCLUDED WITHIN EACH CONSTRUCTION PROJECT.
3. ASSURE THAT CONTRACTORS ARE PROPERLY CONSTRUCTING, INSTALLING, AND / OR MAINTAINING REQUIRED MITIGATION MEASURES.
4. ASSURE THAT CONTRACTORS ARE PROPERLY CONSTRUCTING, INSTALLING AND MAINTAINING REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES.
5. CONDUCT MONITORING IN ORDER TO DETERMINE COMPLIANCE WITH STATE WATER QUALITY STANDARDS.
6. ASSURE THAT ALL PERMIT CONDITIONS ARE BEING ADHERED TO DURING THE CONSTRUCTION PHASE.
7. ADVISE AGENCIES OF MAJOR CONSTRUCTION WHICH MAY HAVE IMPACT ON WATER QUALITY, NATURAL RESOURCES, CULTURAL RESOURCES, AND WILL ATTEND ALL FIELD REVIEWS CONDUCTED WITH THE AGENCIES DURING CONSTRUCTION.
8. WILL OVERSEE WATER QUALITY MONITORING, BY INDEPENDENT CONSULTANTS, DURING THE CONSTRUCTION TO ASSURE COMPLIANCE WITH ALL PERMIT CONDITIONS AND EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL PLANS.

IN ADDITION TO THE ABOVE, THE ENVIRONMENTAL MONITOR HAS THE AUTHORITY TO SHUT DOWN THE CONSTRUCTION PROJECT WHERE ANY OPERATION RESULTS IN CONSTRUCTION IMPACTS TO WATER QUALITY, NATURAL RESOURCES, OR CULTURAL RESOURCES. WORK WILL NOT BE PERMITTED TO RESUME UNTIL THE APPROPRIATE CORRECTIVE ACTION HAS BEEN INSTITUTED OR COMPLETED.

EQUIPMENT - NOISE ABATEMENT

THE CONTRACTOR WILL BE REQUIRED TO USE OPERABLE MUFFLERS ON CONSTRUCTION EQUIPMENT AT ALL TIMES ON THIS PROJECT.

DESIGN ESAL VALUE

THE DESIGN ESAL VALUE ON THIS PROJECT:
U.S. 48 = 15,000,000

NEFF, LONGEST, & BEAM and ASSOC., LLC
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GENERAL NOTES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

8/2/2007

GRADING SUMMARY

LOCATION		207001-001 UNCLASSIFIED EXCAVATION	UNSUITABLE EXCAVATION	SUITABLE EXCAVATION			ADJUSTED EXCAVATION			TOTAL ADJUSTED EXCAVATION	UNCLASSIFIED EMBANKMENT	SELECT EMBANKMENT	TOTAL EMBANKMENT	EXCESS (+) OR BORROW (-)	REMARKS
				ROCK	SHALE	SOIL	ROCK 15% SWELL	SHALE 15% SWELL	SOIL 5% SHRINK						
STATION	STATION	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY		
CORRIDOR H															
710+50	715+00	26.821	1.850	0	23.771	1,200	0	27.337	1,140	28.477	21,666	0	21,666	6811	
715+00	720+00	75.473	2.080	0	71.193	2,200	0	81.872	2,090	83.962	0	0	0	83962	
720+00	725+00	15.809	1.760	0	11.349	2,700	0	13.051	2,585	15.616	15,416	0	15,416	200	
725+00	730+00	8.999	925	0	7.774	300	0	8.940	285	9.225	42,938	1,730	44,668	-35443	
730+00	735+00	33.234	815	0	31.719	700	0	36.477	665	37,142	34,032	1,481	35,513	1629	
735+00	740+00	95.744	2,315	0	91.129	2,300	0	104.798	2,185	106,983	0	0	0	106983	
740+00	745+00	68.892	2,130	0	64.662	2,100	0	74.361	1,995	76,356	0	0	0	76356	
745+00	750+00	57.734	1,990	0	53.744	2,000	0	61.806	1,900	63,706	0	0	0	63706	
750+00	755+00	51.664	1,640	0	43.224	1,800	0	49.708	1,710	51,418	1,609	0	1,609	49809	
755+00	760+00	31.068	1,110	0	28.258	1,700	0	32.497	1,615	34,112	10,681	0	10,681	23431	
760+00	765+00	14.653	445	0	13.508	700	0	15.534	665	16,199	37,739	1,354	39,093	-22894	
765+00	770+00	10.505	555	0	550	9,400	0	633	8,930	9,563	49,002	4,885	53,887	-44325	
770+00	775+00	248.221	2,545	0	243.876	1,800	0	280.457	1,710	282,167	0	0	0	282167	
775+00	780+00	91.254	2,008	0	88.196	1,050	0	101.425	998	102,423	11,862	0	11,862	90561	
780+00	782+75	810	0	0	810	0	0	932	0	932	55,231	0	55,231	-54300	
RAMP A															
100+00	110+24.15	55,577	1,555	0	53,222	800	0	61,205	760	61,965	19,970	1,476	21,446	40519	
RAMP B															
201+00	206+56.22	66,265	1,100	0	64,265	900	0	73,905	855	74,760	0	0	0	74760	
RAMP C															
300+00	310+00	129,696	775	0	127,321	1,600	0	146,419	1,520	147,939	21,306	0	21,306	126633	
RAMP D															
401+43.05	416+18.90	101,590	1,565	0	98,325	1,700	0	113,074	1,615	114,689	46,207	0	46,207	68482	
CR 5															
27+20	38+92	10,511	1,227	0	0	9,284	0	0	8,820	8,820	15,471	0	15,471	-6651	
41+07	54+50	2,535	1,330	0	0	1,205	0	0	1,145	1,145	81,097	0	81,097	-79952	
DRWY #4															
		348	0	0	0	348	0	0	331	331	4,136	0	4,136	-3805	
SCOUR BASINS															
		0	0	0	0	-	0	0	-	-	965	0	965	-965	
CONC. RAMP MEDIAN															
		0	0	0	0	-	0	0	-	-	54	0	54	-54	
SED. BASIN SUMMARY															
		12,766	0	0	0	12,766	0	0	12,128	12,128	463	0	1,303	10825	
SED. BASIN RESTORATION															
		13,229	0	0	0	13,229	0	0	12,568	12,568	-	0	-	12568	
TOTAL															
		1,223,398	29,720	0	1,116,896	71,782	0	1,284,430	68,193	1,352,623	468,880	11,891	481,611	871,012	

BUILDING DEMOLITION

LOCATION		202001-000	202002-000 WATER	202003-000	*681001-001	TYPE OF IMPROVEMENT
STATION	OFFSET LT. / RT.	DEMOLITION #	WELL ABANDONMENT	SEPTIC TANK ABANDONMENT	ASBESTOS ABATEMENT	
CR 5						
37+20	LT		8/7			
38+00	RT	8/1				2 STORY FRAME
38+00	LT	8/6				FRAME SHED
38+45	LT	8/2				FRAME SHED
38+65	LT	8/3				FRAME SHED
38+80	LT	8/4				FRAME SHED
39+50	LT	8/5				FRAME SHED
46+65	LT	12/2				GARAGE
47+00	LT	12/1		12/3		1 STORY FRAME
47+25	LT		12/4			
TOTAL		8	2	1		

* ASBESTOS ABATEMENT REPORTS MAY NOT BE COMPLETE AT TIME OF PLAN SUBMISSION

BORROW COMPUTATIONS *

SELECT EMBANKMENT REQUIRED (FROM TABLE "GRADING SUMMARY")	=	11891 CY	UNCLASSIFIED EMBANKMENT REQUIRED (FROM TABLE "GRADING SUMMARY")	=	468,880 CY
SELECT EMBANKMENT AVAILABLE (FROM TABLE "PROBABLE SOURCE OF SELECT EMBANKMENT")	=	0 CY	ADJUSTED EXCAVATION (FROM TABLE "GRADING SUMMARY")	=	1,352,623 CY
SELECT EMBANKMENT NEEDED	=	11,891 CY	EMBANKMENT NEEDED	=	0 CY
ROCK BORROW EXCAVATION REQUIRED TO MEET SELECT EMBANKMENT REQUIREMENTS WITH 15% SWELL FACTOR:			EXCAVATION REQUIRED TO MEET SELECT EMBANKMENT REQUIREMENTS WITH 5% SHRINK FACTOR:		
ITEM 211002-000, SELECT EMBANKMENT NEEDED	=	10,340 CY	ITEM 2110001-000, EMBANKMENT NEEDED	=	0 CY
ROCK BORROW EXCAVATION =		1+0.15	UNCLASSIFIED BORROW EXCAVATION =		1-0.05

* BRIDGE ABUTMENT (FOR INFORMATION ONLY)

ITEM	DESCRIPTION	UNIT	ABUT #1	ABUT #2	TOTAL
BRIDGE # 10425					
			STA. 38+92	STA. 41+07	
307001-000	AGGREGATE BASE COURSE, CLASS I	CY	32	32	64
402001-011	SUPERPAVE HMA SKID RESIST PVMT, TYPE 9.5	TN	20	20	40
502001-012	12 INCH PCC APPROACH SLAB	SY	194	194	388
601009-001	CLASS H CONCRETE	CY	23	23	46
601009-003	CLASS H CONCRETE, ARCHITECTURAL	CY	17	17	34
602002-001	EPOXY COATED REINFORCING STEEL BAR	LB	4,046	4,046	8,092
617003-001	ALUMINUM RAILING	LF	114	114	228

* THESE ITEMS ARE INCLUDED IN THE ROADWAY SUMMARY OF QUANTITIES, BUT ARE NOT INCLUDED IN ANY OTHER QUANTITY TABLE.

5/15/2007

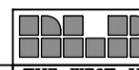
QUANTITY TABLES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

PAVING

LOCATION			(9)	(6)	(11)	(5)	(4)	(3)	(3)	(2)	(2)	(1)	(1)	REMARKS
			207002-000	207034-000	307001-000	307001-000	311006-001	401001-011	401001-012	401001-011	401001-012	402001-011	402001-012	
SEGMENT	STATION	STATION	FABRIC FOR SUBGRADE	CLASS 1 AGGREGATE BASE COURSE	CLASS 10 AGGREGATE BASE COURSE	OPEN GRADED F.D.B.	SUPERPAVE H.M.A. BASE COURSE STONE OR GRAVEL TYPE 37.5	SUPERPAVE H.M.A. BASE COURSE SLAG TYPE 37.5	SUPERPAVE H.M.A. BASE COURSE STONE OR GRAVEL TYPE 19	SUPERPAVE H.M.A. BASE COURSE SLAG TYPE 19	SUPERPAVE H.M.A. SKID RESISTANT PAVEMENT STONE OR GRAVEL TYPE 9.5	SUPERPAVE H.M.A. SKID RESISTANT PAVEMENT SLAG TYPE 9.5		
			CY	SY	CY	CY	CY	TN	TN	TN	TN	TN	TN	
CORRIDOR H	765+20.64	770+00	740	5,013	0	66	557	2,492	2,379	734	701	365	348	
	770+00	775+00	715	5,288	0	80	588	2,456	2,344	720	687	358	342	
	775+00	780+00	845	5,871	0	72	652	2,863	2,733	844	806	420	401	
	780+00	782+75	458	3,297	0	58	367	1,561	1,490	457	436	227	217	
RAMP A	100+00	105+00	199	1,694	0	38	188	709	677	206	197	102	97	
	105+00	111+05.15	295	2,401	0	63	267	1,037	990	302	288	150	143	
RAMP B	200+19	203+00	157	1,239	0	38	138	548	523	161	154	80	76	
	203+00	206+66.22	147	1,213	0	58	135	520	496	152	145	75	72	
RAMP C	300+00	305+00	204	1,720	0	23	191	721	688	209	199	104	99	
	305+00	311+19.93	323	2,539	0	60	282	1,131	1,080	334	319	166	158	
RAMP D	400+19	405+00	252	2,060	0	36	229	891	850	263	251	131	125	
	405+00	410+00	222	1,831	0	39	203	781	745	226	216	112	107	
	410+00	416+18.90	257	2,157	0	44	240	908	867	264	252	131	125	
CR 5	27+20	30+00	199	1,400	0	7	164	345	329	205	196	102	97	
	30+00	35+00	404	2,946	0	35	348	710	678	422	403	210	200	
	35+00	38+72	311	2,142	0	35	248	536	512	318	304	158	151	
	41+27	45+00	297	2,331	0	44	281	535	511	318	304	158	151	
	45+00	50+00	359	2,827	0	55	341	648	619	384	367	191	182	
	50+00	54+50	269	1,944	0	30	229	471	450	278	265	138	132	
DRWY #2	1+19	1+90	0	202	36	3	0	0	0	23	22	12	11	PAVED DRIVEWAY
DRWY #4	94+25	95+30.62	0	273	43	13	0	0	0	0	0	0	0	GRAVEL DRIVEWAY
BRIDGE ABUTMENT			0	-	64	-	0	0	0	0	0	40	0	
CONCRETE RAMP MEDIAN			0	-	21	-	0	0	0	0	0	0	0	
SEDIMENT BASIN SUMMARY			0	683	0	-	0	0	0	0	0	0	0	
TOTAL			6,653	51,071	164	897	5,648	19,863	18,960	6,820	6,510	3,430	3,236	

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QUANTITY TABLES

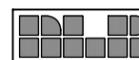
REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DRAINAGE QUANTITIES

LOCATION		DIAMETER	DEPTH	604002 FULL BITUMINOUS COATED CORRUGATED STEEL PIPE: PRINCIPLE			604009 REINFORCED CONCRETE PIPE: ALTERNATE			604076 ALUMINUM COATED CORRUGATED STEEL PIPE: ALTERNATE			605004-001	605009-001	INLET	WINGWALL		CLASS	REMARKS						
				LF	YZ	END SECTION	LF	YZ	END SECTION	LF	YZ	END SECTION	EA	EA	LOCATION	LEFT	RIGHT	B							
STATION	STATION	INCHES	FEET	LF	YZ	END SECTION	LF	YZ	END SECTION	LF	YZ	END SECTION	EA	EA	LT/CL/RT	LEFT	RIGHT	CONCRETE	CY						
CR 5				18 INCH PIPE																					
30+75	27+50	18	3	322	A7	-	322	II	-	322	A7	-		1	34.5 LT										
TOTALS, 18 INCH				322	A7	-	322	II	-	322	A7	-													
CORRIDOR H				24 INCH PIPE																					
714+00	717+50	24	2	350	A7		350	II		350	A7			1	CL				2.6						
717+50	722+00	24	2	450	A7		450	II		450	A7			1	CL				2.6						
722+00	722+00	24	6	73	A7		73	II		73	A7			2	76 RT				2.88						
726+25	726+00	24	5	76	A7		76	II		76	A7			1	76 RT				2.88						
726+00	725+50	24	7	122	A7	1	122	II	1	122	A7	1		1	CL				2.6						
730+00	733+50	24	2	350	A7		350	II		350	A7			1	CL				2.6						
733+50	737+00	24	3	350	A7		350	II		350	A7			1	CL				2.6						
737+00	737+00	24	6	74	A7		74	II		74	A7			1	76 RT				2.88						
737+00	737+00	24	8	74	A7		74	II		74	A7			1	CL				2.6						
737+00	737+00	24	13	57	A7	1	57	III	1	57	A7	1		1	76 LT				2.88						
740+50	745+00	24	2	450	A7		450	II		450	A7			1	CL				2.6						
745+00	745+00	24	5	74	A7		74	II		74	A7			1	76 RT				2.88						
745+00	745+00	24	6	74	A7		74	II		74	A7			1	CL				2.6						
745+00	745+00	24	10	76	A7	1	76	II	1	76	A7	1		1	76 LT				2.88						
750+00	750+00	24	5	74	A7		74	II		74	A7			1	76 RT				2.88						
750+00	755+00	24	2	500	A7		500	II		500	A7			1	CL				2.6						
755+00	750+00	24	5	80	A7		80	II		80	A7			1	82.4 LT				2.88						
769+50	774+00	24	2	450	A7		450	II		450	A7			1	CL				2.6						
777+50	777+50	24	7	85	A7		85	II		85	A7			1	88 RT				2.88						
781+50																			2.6						
782+00																			5.2						
CONSTRUCT CONCRETE GUTTER TREATMENT																									
CONSTRUCT CONCRETE GUTTER TREATMENT BOTH DIRECTIONS OF FLOW																									
RAMP A																									
108+00	106+50	24	10	86	A7		86	II		86	A7			1	36 RT				5.76						
108+50	203+00	24	6	60	A7		60	II		60	A7			1	36 LT				5.76						
RAMP B																									
203+00	205+00	24	5	200	A7		200	II		200	A7			1	36 RT				2.88						
CR 5																									
27+50	27+50	24	4	56	A7	1	56	II	1	56	A7	1		1	26.3 LT				2.6						
37+50	37+50	24	18	148	A7	1	148	IV	1	148	A7	1		1	84 LT				2.6						
53+00	53+50	24	5	86	A7	2	86	II	2	86	A7	2							2.6						
USE SAFETY END SECTIONS, CONSTRUCT CUT DITCH																									
RAMP C																									
302+00	300+60	24	5	142	A7		142	II		142	A7			1	24 LT				2.6						
RAMP D																									
402+50	402+50	24	4	82	A7		82	II		82	A7			1	3 LT				2.6						
404+00	404+00	24	4	77	A7		77	II		77	A7			1	3 LT				2.6						
405+00	405+35	24	15	70	A7	1	70	IV	1	70	A7	1		1	6.62 LT				2.6						
406+60	406+50	24	13	95	A7	1	95	III	1	95	A7	1		1	38 LT				2.6						
DRWY #4																									
94+85	94+50	24	14	116	A7	2	116	III	2	116	A7	2							2.6						
TOTALS, 24 INCH - CLASS II				5057	A7	11	4571	II	5	5057		11													
CLASS III							268	III	4																
CLASS IV							218	IV	3																
TOTALS, 24 INCH - ALL CLASSES							5057		11																
SUBTOTALS, THIS SHEET													3	28										68.36	

NOTE: SEE STANDARD DETAIL SHEET DR6-G FOR WIDTHS OF TYPE G INLETS

NOTE: EXTENSIONS OF EXISTING PIPES AND CONNECTIONS OF PIPE TO PIPES SHALL BE PERFORMED USING CONNECTING BANDS AND PREFABRICATED TEES AND/OR SADDLES, RESPECTIVELY. THOSE ITEMS SHALL BE INCIDENTAL TO THE COST OF THE PIPES.


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QUANTITY TABLES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

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DRAINAGE QUANTITIES																				
LOCATION		DRAINAGE NUMBER	PIPE LENGTH FEET	604002 FULL BITUMINOUS COATED CORRUGATED STEEL PIPE PRINCIPLE			604009 REINFORCED CONCRETE PIPE ALTERNATE			604076 ALUMINUM COATED CORRUGATED STEEL PIPE ALTERNATE			TYPE B INLET	TYPE G INLET	WINGWALL LOCATION	WINGWALL		CLASS B CONCRETE CY	REMARKS	
STATION	STATION			LF	YZ	END SECTION	LF	YZ	END SECTION	LF	YZ	END SECTION				EA	EA			LT/CL/RT
CORRIDOR H				30 INCH PIPE																
722+00	723+00	30	25	156	A7	I	156	V	I	156	A7	I		1		CL		3.78		
755+00	760+00	30	2	500	A7		500	II		500	A7			1		CL		3.78		
760+00	764+50	30	2	450	A7		450	II		450	A7			1		CL		3.78		
764+50	765+00	30	12	114	A7	I	114	III	I	114	A7	I		1		CL		3.78		
RAMP B																				
205+00	774+00	30	7	84	A7		84	II		84	A7			1		33 LT			UNDER RAMP B	
RAMP C																				
300+60	777+50	30	7	88	A7		88	II		88	A7			1		39 RT			UNDER RAMP C	
CR 5																				
47+00	47+00	30	24	146	A7	2	146	V	2	146	A7	2						4.19	CONSTRUCT DRG	
TOTALS, 30 INCH - CLASS II				1538	A7	4	1122	II		1538	A7	4								
CLASS III							114	III	1											
CLASS V							302	V	3											
							1538		4											
CORRIDOR H				36 INCH PIPE																
774+00	777+50	36	4	350	A7		350	II		350	A7			1		CL		4.6		
TOTALS, 36 INCH				350	A7		350	II		350	A7									
CORRIDOR H				48 INCH PIPE																
777+50	781+00	48	2	350	A7		350	II		350	A7			1		CL		6.49		
781+00	781+50	48	8	125	A7		125	II		125	A7			1		CL	1	10.46		
TOTALS, 48 INCH				475	A7		475	II		475	A7									
CORRIDOR H				54 INCH PIPE																
729+65	730+49	54	50	327	A3		N/A	N/A	N/A	327	A3						1	4.74		
TOTALS, 54 INCH				327	A3					327	A3									
CORRIDOR H				84 INCH PIPE																
765+31	768+02	84	45	422	C5		N/A	N/A		422	C5						1	14.25		
TOTALS, 84 INCH				422	C5					422	C5									
SUBTOTALS, THIS SHEET												9	2	59.85						
SUBTOTALS, PREVIOUS SHEET												3	0	68.36						
TOTALS												3	2	128.21						

NOTE: SEE STANDARD DETAIL SHEET DR6-G FOR WIDTHS OF TYPE G INLETS

NOTE: EXTENSIONS OF EXISTING PIPES AND CONNECTIONS OF PIPE TO PIPES SHALL BE PERFORMED USING CONNECTING BANDS AND PREFABRICATED TEES AND/OR SADDLES, RESPECTIVELY. THOSE ITEMS SHALL BE INCIDENTAL TO THE COST OF THE PIPES.

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FREE DRAINING BASE

LOCATION		(7) 606029-001 FREE DRAINING BASE TRENCH		(8) 606030-001 6" OUTLET PIPE			SLOPEWALLS FOR INFO. ONLY EA	TYPE OF IMPROVEMENT
STATION	STATION	LT	RT	LT	MED LT	MED RT		
		FT		FT				
CORRIDOR H								
765+20.64	770+00	311	222					
770+00	775+00	500	498					
770+50				11				
770+50	773+00			250				
771+00							12	
771+00	774+00						303	
773+00				11				
773+00	776+00			300				
774+00							22	
774+97.77							29	
775+00	780+00	376	427					
775+73.14	777+50						177	
776+00				32				
776+80.32				26				
777+50							17	
780+00	782+75	275	275					
780+00							14	
780+00	780+25			47			1	
780+00	781+50						150	
781+50				15			19	
781+75				15			14	
781+97.06				66			189	2
782+25				15			14	
782+50				15			14	
RAMP A								
100+00	105+00		500					
102+50							49	1
105+00	111+05.15		648					
105+00							9	
105+00	108+00.53						293	
107+50							9	
107+75							9	
108+00.53							13	
108+25							9	
108+50							9	
108+00.53	108+50						50	
108+00.53	110+00						158	
RAMP B								
200+19	206+66.22		693					
203+00							12	
206+00							8	
206+00	206+66.22						60	
RAMP C								
300+00	305+00		500					
300+50							19	
300+50	303+00						180	
303+00							9	
305+00	311+19.93	90	532					
305+50	305+75						44	
308+00							50	1
308+92	310+32.09				141			RAMP C & D MEDIAN
310+32.09			25					GRADING TRANSITION

FREE DRAINING BASE

LOCATION		(7) 606029-001 FREE DRAINING BASE TRENCH		(8) 606030-001 6" OUTLET PIPE			SLOPEWALLS FOR INFO. ONLY EA	TYPE OF IMPROVEMENT
STATION	STATION	LT	RT	LT	MED LT	MED RT		
		FT		FT				
RAMP D								
400+00	405+00	500	131					
401+08.84			25					59
402+45						7		
403+95						7		
405+00	410+00	500						
405+25						9		
405+50						7		
405+74.10						11		
405+74.10	406.25					89		
406+00						11		
406+25						11		
406+39.88							40	1
406+39.88	407+00						60	
407+00							9	
407+00	409+50						250	
409+50							9	
409+50	412+00						250	
410+00	416+18.90	510						
412+00							9	
414+00	414+50						87	1
CR 5								
27+20							9	
29+00	29+50						81	
27+20	30+00		280					1
29+50	30+74.12						130	
30+00	35+00	426	276					1
30+74.18			38	10				GRADING TRANSITION
32+76.12			38				24	GRADING TRANSITION
35+00	38+59.53	360						2
35+50				30				
38+00				40				
38+00	38+59			59				
41+39.47	45+00	361	361					2
44+00				58			65	
45+00	50+00	500	458					4
49+57.22			27	58			58	GRADING TRANSITION
50+00	54+50	450						2
52+00				34				
53+50	54+50			100				
53+67							67	
SUBTOTALS		5159	5954	1330	141	14	3,171	
TOTAL		11,113		4,656			20	

UNDERDRAIN

LOCATION		606022-001 CRUSHED STONE, GRAVEL, OR SILICA SAND FOR UNDERDRAIN CY	606025-004 6" UNDERDRAIN PIPE LF	REMARKS
STATION	STATION			
CORRIDOR H				
720+60	721+30	20	160	
727+00	723+70	21	170	
761+00	763+50	18	150	
778+80	779+10	20	160	
407+00 "D"	407+20"D"	8	70	
TOTAL		87	710	

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RIGHT OF WAY MARKERS				
STATION	OFFSET		638002-001	REMARKS
	LEFT	RIGHT	EA	
CORRIDOR H				
707+89		221	1	CONST. PROJECT X312-H-91.07
709+50		225	1	
710+53	178		1	CONST. PROJECT X312-H-91.07
711+50	150		1	
712+00		170	1	
715+00	160		1	
716+50		170	1	
720+00	140		1	
722+00	210		1	
727+50		170	1	
729+00	210		1	
729+50		250	1	
730+00	300		1	
731+50	300		1	
733+00		162	1	
732+50	150		1	
736+50	150		1	
736+50	275		1	
737+20		256	1	
738+25	275		1	
738+25	150		1	
744+00	150		1	
744+00	250		1	
746+00	250		1	
745+00		170	1	
746+00	150		1	
752+50		150	1	
760+00	160		1	
762+00		150	1	
763+50		375	1	
764+00	140		1	
765+00		250	1	
780+00		350	1	
783+50	446		1	CONST. PROJECT X312-H-95.31
SUBTOTAL, CORRIDOR H			34	
RAMP A				
106+00		125	1	
110+50		100	1	
SUBTOTAL, RAMP A			2	
RAMP D				
400+87		110	1	
402+50		110	1	
403+75		100	1	
404+50		90	1	
406+00		200	1	
406+87		106	1	
412+00		125	1	
413+00		225	1	
SUBTOTAL, RAMP D			8	

RIGHT OF WAY MARKERS				
STATION	OFFSET		638002-001	REMARKS
	LEFT	RIGHT	EA	
CR 5				
24+30		20	1	
24+30		70	1	
25+00		50	1	
27+00		50	1	
27+05	20		1	
27+10	60		1	
29+00	70		1	
29+50		70	1	
30+00	70		1	
30+94		20	1	
31+03	20		1	
31+03	60		1	
31+09		78	1	
32+50		50	1	
34+00		65	1	
48+50	100	40	2	
48+50		80	1	
48+50		125	1	
51+00	70		1	
54+15	40		1	
54+15	20		1	
54+50		20	1	
54+50		50	1	
SUBTOTAL, CR 5			24	
TOTAL			68	

RIGHT OF WAY FENCE				
LOCATION		608002-001 LENGTH, LF		REMARKS
STATION	STATION	LEFT	RIGHT	
CORR H				
704+50	729+54		2,545	
710+10	766+31.67	6,375		
729+71	765+27		3,570	
780+00	786+00		610	
783+50	788+00	475		
CR 5				
30+94	37+62		830	
31+03	32+63	190		
46+24	48+48		375	
46+57	48+27	240		
RAMP A				
100+16	110+52		980	
RAMP D				
400+99	404+85		450	
405+23	416+18.90		1,050	
TOTAL		7,280	10,410	
		17,690		

SURVEY MARKERS		
LOCATION	OFFSET	638003-001
CORR H		
CS 715+09.95		1
ST 719+03.65		1
PC 728+03.09		1
PT 741+31.75		1
CR 5		
PC 22+90.16		1
PT 29+94.18		1
PC 33+86.12		1
PT 37+77.57		1
PC 50+53.22		1
RAMP A		
PC 100+00.00		1
PT 108+91.45		1
RAMP B		
PC 201+22.58		1
PT 206+66.22		1
RAMP C		
PC 300+00.00		1
PT 309+35.93		1
RAMP D		
PC 402+07.12		1
PT 404+89.88		1
PC 407+89.88		1
PT 416+18.90		1
TOTAL		19

TEMPORARY FENCE				
LOCATION		608003-001 LENGTH, LF		REMARKS
STATION	STATION	LEFT	RIGHT	
CORR H				
		2,000	2,000	LIVESTOCK CONTROL
725+65		525		SEDIMENT DAM #4
730+77		600		SEDIMENT DAM #5
737+37		450		SEDIMENT DAM #6
744+61		625		SEDIMENT DAM #7
RAMP D				
407+30			450	SEDIMENT POND #8
TOTAL		4,200	2,450	
		6,650		

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QUANTITY TABLES

TEMPORARY POLLUTION CONTROL

LOCATION		642001-001	642002-001	642004-001	642004-002	642004-003	642005-001	642005-002	642006-001	642007-001	642008-001	642009-001	642010-001	642011-001	642012-001	642015-001	642031-001	642033-001	642036-001	642040-001	638004-001	642042-001	642050-001	REMARKS
		TEMPORARY	SLOPE	TEMPORARY	SEED	SEED	STRAW OR	WOOD CELL.		FIBER	TEMPORARY	CONTOUR	AGRI	HAY OR	SILT	SUPER	DITCH	SEDIMENT	SEDIMENT	INLET	OUTLET	FLOCCULANT	DEWATERING	
STATION	STATION	BERM	DRAIN	SEED	MIXTURE B	MIXTURE D	HAY MULCH	MULCH	FERTILIZER	MATting	PIPE	DITCH	CULTURAL	STRAW	FENCE	SILT FENCE	CHECK	TRAP	REMOVAL	PROTECTION	MARKER	BLOCK	DEVICE	
		LF	LF	LB	LB	LB	TN	TN	TN	SY	LF	LF	TN	EA	LF	LF	EA	CY	CY	EA	EA	EA	EA	
CORRIDOR H																								
710+50	715+00	0	74	353	426	310	23.4	0	4.7	952	0	1500	4.4	42	1000	0	2	45	90	1	0	2	1	
715+00	720+00	0	0	352	461	283	23.4	0	4.7	1005	0	1500	4.4	42	1000	0	12	50	100	1	0	2	1	
720+00	725+00	1000	44	332	479	235	22.0	0	4.4	1005	200	1500	4.1	42	1000	0	50	50	100	3	1	2	1	
725+00	730+00	750	146	374	447	331	24.8	0	4.9	1005	200	1500	4.6	42	1000	0	24	50	100	2	1	6	1	
730+00	735+00	500	118	353	479	273	23.4	0.10	4.7	1005	200	1500	4.4	42	1000	0	17	50	100	2	1	6	1	
735+00	740+00	0	0	384	541	283	25.5	0.83	5.1	1005	0	1500	4.8	42	1000	0	14	50	100	3	1	6	1	
740+00	745+00	0	0	352	461	283	23.4	0.67	4.7	1005	0	1500	4.4	42	1000	0	11	50	100	1	1	6	1	
745+00	750+00	0	0	323	493	210	21.4	0	4.3	1005	0	1500	4.0	42	1000	0	23	50	100	3	0	2	1	
750+00	755+00	0	14	202	194	212	13.4	0	2.7	1005	0	1500	2.5	42	1000	285	32	50	100	3	0	2	1	
755+00	760+00	0	36	306	461	315	24.6	0	4.9	1005	0	1500	4.6	42	1000	530	42	50	100	1	0	2	1	
760+00	765+00	938	100	388	538	292	25.8	0	5.1	1005	0	1500	4.8	42	1000	570	51	50	100	1	0	2	1	
765+00	770+00	938	144	238	538	31	15.8	0	3.2	1005	0	1500	3.0	42	1000	0	93	50	100	2	0	2	1	
770+00	775+00	0	0	366	482	294	24.3	0	4.9	1005	0	1500	4.5	42	1000	0	90	50	100	1	0	2	1	
775+00	780+00	188	48	342	550	203	22.7	0	4.5	1005	0	1500	4.3	42	1000	0	43	50	100	2	0	2	1	
780+00	782+75	523	26	257	359	173	16.4	0	3.2	552	0	825	3.1	23	550	0	15	28	56	1	1	2	1	
RAMP A																								
100+00	110+24.15	1000	84	359	276	428	23.8	0	4.7	690	0	3072	4.5	85	0	0	61	11	205	2	0	2	1	
RAMP B																								
201+00	206+66.22	0	0	202	179	224	13.4	0	2.7	382	0	1698	2.5	47	0	0	43	6	113	2	0	2	1	
RAMP C																								
300+00	310+00	1563	78	375	223	493	24.9	0.52	4.9	672	0	3000	4.6	83	0	0	90	10	200	2	0	2	1	
RAMP D																								
401+43.05	416+18.90	2500	144	596	394	756	39.5	0	7.9	992	0	4428	7.4	122	0	0	122	15	300	4	3	6	1	
CR 5																								
27+20	37+92	1625	84	500	355	254	33.2	0	6.6	240	0	3516	6.2	98	2344	0	62	11	214	3	0		1	
41+07	54+50	3125	140	697	949	535	46.2	0	9.2	905	0	4029	8.7	122	2686	0	55	14	270	1	2	2	1	
DRWY #5																								
		1375	0	148	361	0	9.8	0	1.9	0	0	400	1.8	0	0	0	10	1	0	0	0	2	1	
TOTAL		16025	1280	7799	9646	6418	521	2	104	18450	600	41968	98	1168	19580	1385	962	791	2748	41	11	62	22	

SCOUR BASIN DIMENSIONS										(FEET)	211002-000 ROCK BORROW EXCAVATION (CY)
STATION	D50	T1	T2	LP	LA	L	W	D	H		
730+49, LT	1.0	3.0	2.0	30.0	15.0	90.0	4.5	6.0	2.8	340	
768+02, LT	1.5	4.5	3.0	30.0	15.0	105.0	7.0	8.5	3.0	625	
TOTAL										965	

NOTE: SEDIMENT TRAPS SHOWN ON THE PLANS ARE ONE POSSIBLE SOLUTION TO THE COLLECTION OF SEDIMENT. THE CONTRACTOR IS REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN WHICH MAY INCORPORATE SOME OF THE TRAPS SHOWN. THE QUANTITIES SHOWN IN THE ABOVE TABLES WERE DERIVED BY MULTIPLYING WIDTH x HEIGHT x LENGTH. EACH VOLUME WAS THEN INCREASED BY 60% TO APPROXIMATE A 10% SIDE SLOPE. FINAL QUANTITIES WILL BE BASED ON THE CONTRACTOR'S PLAN AND ACTUAL FIELD MEASUREMENTS.

NEFF, LONGEST, & BEAM and ASSOC., LLC
300 Capitol Street, 5th Kanawha Valley Building
Charleston, WV 25301

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

QUANTITY TABLES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

5/15/2007

SEDIMENT BASIN SUMMARY (FOR INFORMATION ONLY)																							
STATION	LEFT / RIGHT	BASIN NUMBER	207001	207034	211001	211008	211017	604001-030		604001-028		604001-020		604001-024		642035	642036	201001	(NOTE 3)				REMARKS
			UNCLASSIFIED EXCAVATION	FABRIC FOR SEPARATION	UNCLASSIFIED BORROW EXCAVATION (NOTE 1)	ROCK BORROW EXCAVATION	IMPERVIOUS CORE	54 INCH METALLIC COATED CORRUGATED STEEL PIPE	48 INCH METALLIC COATED CORRUGATED STEEL PIPE	24 INCH METALLIC COATED CORRUGATED STEEL PIPE	36 INCH METALLIC COATED CORRUGATED STEEL PIPE	RISER	SEDIMENT REMOVAL	CLEARING AND GRUBBING	SEED MIX	MULCH	FERTILIZER	AGRICULTURAL LIMESTONE					
			CY	SY	CY	TN	SF	SIZE	LF	SIZE	LF	SIZE	LF	SIZE	LF	EA	CY	AC	LB	TN	TN	TN	
725+65	LT	4	2702	161	0	181	1200	54 IN	89						1	3115	0.73	88	2.92	0.58	0.15		
730+77	LT	5	2633	131	0	148	1200			48 IN	90				1	3645	0.68	82	2.72	0.54	0.14		
737+37	LT	6	3520	132	0	213	1440					24 IN	74		1	978	0.60	72	2.40	0.48	0.12		
744+61	LT	7	2633	151	0	179	2800					24 IN	88		1	1310	0.94	113	3.76	0.75	0.19		
407+30	RT	8	1278	108	463	119	1453							36 IN	46	1	1310	0.81	97	3.24	0.65	0.16	
TOTALS			12766	683	463	840	8093		89		90		162		46	5	10358	3.76	452	15.04	3.00	0.76	Temporary seeding items assumed seeded twice.

NOTE 1 - UNCLASSIFIED BORROW EXCAVATION QUANTITY FOR EACH BASIN ON THE TOTAL REQUIRED EXCAVATION FOR EACH BASIN.
 NOTE 2 - COST AND QUANTITY INCLUDED IN THE UNIT PRICE BID FOR ITEM 201001, CLEARING AND GRUBBING, PER LS - QUANTITY IS FOR INFORMATION ONLY.
 NOTE 3 - COST TO BE INCLUDED IN UNIT BID PRICE FOR ITEM 207001, UNCLASSIFIED EXCAVATION, PER CY. MATERIAL CERTIFICATION REQUIREMENTS FOR THESE ITEMS SHALL BE WAIVED. QUANTITIES FOR INFORMATION ONLY.
 NOTE 4 - SHRINK AND SWELL FACTORS AS WELL AS UNSUITABLE MATERIAL FOR SEDIMENT BASINS HAVE NOT BEEN CONSIDERED IN THE EARTHWORK CALCULATIONS.

SEDIMENT BASIN RESTORATION (FOR INFORMATION ONLY)												
STATION	LEFT / RIGHT	BASIN NUMBER	207001	633003	(NOTE 2)			(NOTE 3)				REMARKS
			UNCLASSIFIED EXCAVATION (NOTE 1)	DUMP ROCK GUTTER	STOCKPILING ROCK	STOCKPILING UNCLASSIFIED MATERIAL	SEED MIX	MULCH	FERTILIZER	AGRICULTURAL LIMESTONE		
			CY	CY	CY	CY	LB	TN	TN	TN		
725+65	LT	4	2702	0	0	870	106	2.19	0.55	0.11		
730+77	LT	5	2633	0	0	1021	99	2.04	0.51	0.10		
737+37	LT	6	3520	0	0	420	87	1.80	0.45	0.09		
744+61	LT	7	2633	0	0	1021	137	2.82	0.71	0.14		
407+30	RT	8	1741	0	0	0	118	2.43	0.61	0.12		
TOTAL			13229	0	0	3332	547	11.28	2.83	0.56	Seeded areas assumed to be 1.5 times C&G areas.	

NOTE 1 - UNCLASSIFIED EXCAVATION QUANTITY FOR EACH BASIN ON THE TOTAL REQUIRED EXCAVATION FOR EACH BASIN RESTORATION. SHRINK AND SWELL FACTORS AS WELL AS UNSUITABLE MATERIAL HAVE NOT BEEN CONSIDERED IN THE EARTHWORK CALCULATIONS. PLACING THE STOCKPILED MATERIAL EXCEPT FOR THE DUMP ROCK GUTTER HAS BEEN INCLUDED IN THE UNCLASSIFIED EXCAVATION QUANTITY.
 NOTE 2 - COST TO BE INCLUDED IN UNIT BID PRICE FOR ITEM 207001, UNCLASSIFIED EXCAVATION, PER CY. STOCKPILING OF MATERIAL IS TO BE PERFORMED DURING THE EXCAVATION OF THE CONSTRUCTION PROJECT. QUANTITIES FOR INFORMATION ONLY.
 NOTE 3 - COST TO BE INCLUDED IN UNIT BID PRICE FOR ITEM 207001, UNCLASSIFIED EXCAVATION, PER CY. MATERIAL CERTIFICATION REQUIREMENTS FOR THESE ITEMS SHALL BE WAIVED. QUANTITIES FOR INFORMATION ONLY.

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REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

QUANTITY TABLES

CLEARING and GRUBBING (FOR INFORMATION ONLY)

LOCATION		AREA		REMARKS
STATION	STATION	(S.F.)	ACRES	
CORRIDOR H				
710+50	715+00	127,650	2.93	
715+00	720+00	127,200	2.92	
720+00	725+00	119,775	2.75	
725+00	730+00	135,225	3.1	
730+00	735+00	127,725	2.93	
735+00	740+00	139,175	3.19	
740+00	745+00	127,150	2.92	
745+00	750+00	116,850	2.68	
750+00	755+00	121,625	2.79	
755+00	760+00	133,775	3.07	
760+00	765+00	140,500	3.22	
765+00	770+00	86,460	1.98	
770+00	775+00	132,500	3.04	
775+00	780+00	123,700	2.84	
780+00	782+75	29,028	0.67	
RAMP A				
100+00	110+24.15	129,753	2.98	
RAMP B				
201+00	206+66.22	73,121	1.68	
RAMP C				
300+00	310+00	135,300	3.11	
RAMP D				
401+43.05	416+18.90	215,180	4.94	
CR 5				
27+20	38+92	180,664	4.15	
41+07	54+50	251,652	5.78	
DRWY #4				
		53,700	1.23	
TOTAL		64.90		USE 65.00

SEEDING and MULCHING

LOCATION		652001-001 AGRI- CULTURAL LIMESTONE	652002-001 FERTILIZER 10-20-10	652002-002 UREA FORMAL- DEHYDE FERTILIZER	652003-001 SEED MIXTURE B, C-1, OR C-2	652003-002 SEED MIXTURE D *	652004-001 STRAW OR HAY MULCH	652004-002 WOOD CELLULOSE FIBER MULCH	REMARKS
STATION	STATION	TON	TON	TON	LB.	LB.	TON	TON	
CORRIDOR H									
710+50	715+00	0.46	2.36	0.70	455	314	9.5	3.5	
715+00	720+00	0.46	2.32	0.70	450	312	9.2	3.5	
720+00	725+00	0.45	2.24	0.67	434	300	8.9	3.4	
725+00	730+00	0.48	2.41	0.73	468	324	9.6	3.6	
730+00	735+00	0.46	2.33	0.70	451	312	9.3	3.5	
735+00	740+00	0.49	2.46	0.74	476	330	9.8	3.7	
740+00	745+00	0.46	2.32	0.70	450	312	9.2	3.5	
745+00	750+00	0.44	2.20	0.66	427	296	8.8	3.3	
750+00	755+00	0.45	2.26	0.68	438	303	9.0	3.4	
755+00	760+00	0.48	2.40	0.72	465	322	9.5	3.6	
760+00	765+00	0.49	2.47	0.74	479	332	9.8	3.7	
765+00	770+00	0.20	0.99	0.30	192	133	4.0	1.5	
770+00	775+00	0.30	1.52	0.46	295	204	6.1	2.3	
775+00	780+00	0.28	1.42	0.43	275	190	5.7	2.1	
780+00	782+75	0.07	0.34	0.10	65	45	1.3	0.5	
RAMP A									
100+00	110+24.15	0.30	1.49	0.45	289	200	6	2.24	
RAMP B									
201+00	206+66.22	0.17	0.84	0.25	163	113	3	1.26	
RAMP C									
300+00	310+00	0.31	1.56	0.47	302	208	6.2	2.33	
RAMP D									
401+43.05	416+18.90	0.49	2.47	0.74	479	331	9.9	3.71	
CR 5									
27+20	38+92	0.42	2.08	0.62	403	278	8.3	3.11	
41+07	54+50	0.58	2.89	0.87	561	387	11.6	4.34	
DRWY #4									
		0.12	0.62	0.18	119	82	2.5	0.92	
TOTALS		8.36	41.97	12.60	8136	5628	167.40	63.00	

* NOTE: NO TYPE " D " SEEDING IN LANDSCAPED AREAS, SEE LANDSCAPE PLANS

8/2/2007

QUANTITY TABLES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY

DUMPED ROCK / CONCRETE GUTTER

LOCATION		LENGTH, FT		DEPTH	WIDTH	THICK	633001-001 CONCRETE GUTTER SY	633003-001 DUMPED ROCK GUTTER CY	REMARKS
STATION	STATION	LT	RT	FT			SY	CY	
CORRIDOR H									
723+00		60		2	4	2		80	
725+50		50		2	4	2		66	
728+50	729+60		120	2	4	2		159	
729+50			25	0.5	15		42		
737+00		100		2	4	2		133	
745+00		75		2	4	2		99	
765+00			25	0.5	30		83		
765+00	768+00	300		2	4	2		398	
781+50	782+00	50		2	6	2		74	REMAINDER BUILT IN CONTRACT X312-H-95.31
RAMP D									
402+50		20		0	8	2		12	
404+00		20		0	8	2		12	
405+00		20		0	8	2		12	
406+00	407+50		210	2	4	2		278	
CR 5									
47+00		30		2	4	2		40	
53+50	54+00		80	2	4	2		106	CUT DITCH
TOTAL							125	1469	

CONCRETE RAMP MEDIAN

LOCATION		LENGTH, L.F.		(14) 211001-000 UNCLASSIFIED BORROW EXCAVATION CY	(11) 307001-000 AGGREGATE BASE COURSE CLASS I CY	(13) 609001-001 CONCRETE SIDEWALK SY	(12) 610001-002 PLAIN CONCRETE CURBING TYPE II LF	REMARKS
STATION	STATION	LEFT	RIGHT	CY	CY	SY	LF	
109+50	110+65	115		11	4	35	457	RAMPS A & B, MEDIAN
200+59.15	201+72.06							RAMP B STATIONING
306+15	310+83.04		473	43	17	146	955	RAMPS C & D, MEDIAN
400+60	405+40.68							RAMP D STATIONING
TOTAL				*54	*21	181	1412	

*TOTALS FOR INFORMATION ONLY. TOTALS INCLUDED IN ROADWAY TOTALS.

MATTING

LOCATION		LENGTH, L.F.		WIDTH	655002-001		REMARKS
STATION	STATION	LEFT	RIGHT	FT	TYPE A SY	TYPE B SY	
710+50	713+50		300	10		333.3	
721+00	723+00	250		10		277.8	
728+50	733+30	230		10	255.6		
729+70	730+60		100	10	111.1		
759+00	765+00	600		10	666.7		
765+30	768+50		400	10		444.4	
TOTAL		1,080	800		1,033	1,056	

GUARD RAIL

LOCATION		(10) 607001-001 TYPE 1 GUARD RAIL CLASS I, L.F.	(10) 607005-001 TYPE 5 GUARD RAIL CLASS I, L.F.	607030-001 S.T.E.T. EA	607065-001 F.E.T. EA	607067-001 D.F.E.T. EA	BUFFER END TREATMENT	607006-001 THRIE BEAM BRIDGE TRANSITION EA	607025-001 C. S. T. TYPE A EA	REMARKS
STATION	STATION	LEFT	RIGHT	EA	EA	EA				
765+20.64	103+50		343	1						EB MAINLINE TO RAMP A
765+20.64	411+50	580							1	WB RAMP D TO MAINLINE
780+05.10	782+79.50								1	TO BRIDGE No. 10424
782+42.60	782+79.50	12.5		1					1	TO BRIDGE No. 10424
782+11.40	782+79.50		12.5		1				1	TO BRIDGE No. 10424
780+91	782+79.50	170		1					1	TO BRIDGE No. 10424
95+00	407+50		1087	1			1			CR 5 @ DRWY 1 TO RAMP D
305+50	41+20	1025			1				1	RAMP C TO BRIDGE No. 10425
41+40	50+00		825		1				1	TO BRIDGE No. 10425
33+00	38+26		536		1				1	TO BRIDGE No. 10425
37+35	38+02	66			1				1	TO BRIDGE No. 10425
SUBTOTALS		1853.5	2803.5	0	225					
TOTAL		4657	225	4	5	1	1	8	1	

5/15/2007

QUANTITY TABLES

REVISION NUMBER	SHEET NUMBER	REVISION	DATE	BY