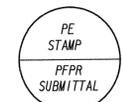


PLANS PREPARED BY:



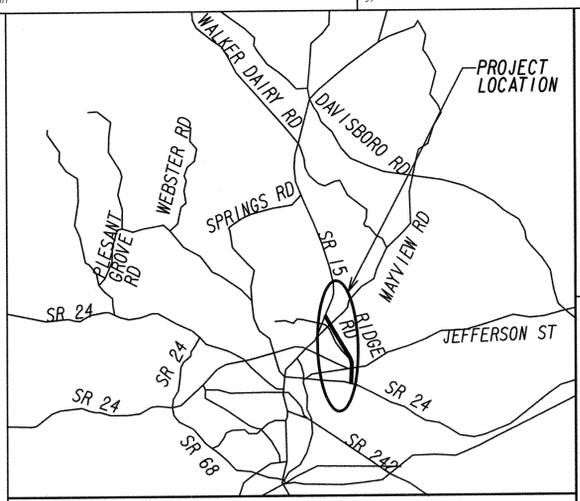
GRESHAM SMITH AND PARTNERS
2325 LAKEVIEW PARKWAY
ALPHARETTA, GA 30009
PHONE No. (770) 754-0755



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED SR 15 BY/ CR 67 FROM SR 242 TO SR 15 WASHINGTON COUNTY STP00-2992-00(003)

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



LOCATION SKETCH

DESIGN DATA:
TRAFFIC A.D.T.: 4500 (2012)
TRAFFIC A.D.T.: 5600 (2032)
24 HR. TRUCKS %: 11%
SPEED DESIGN: 55/45 MPH

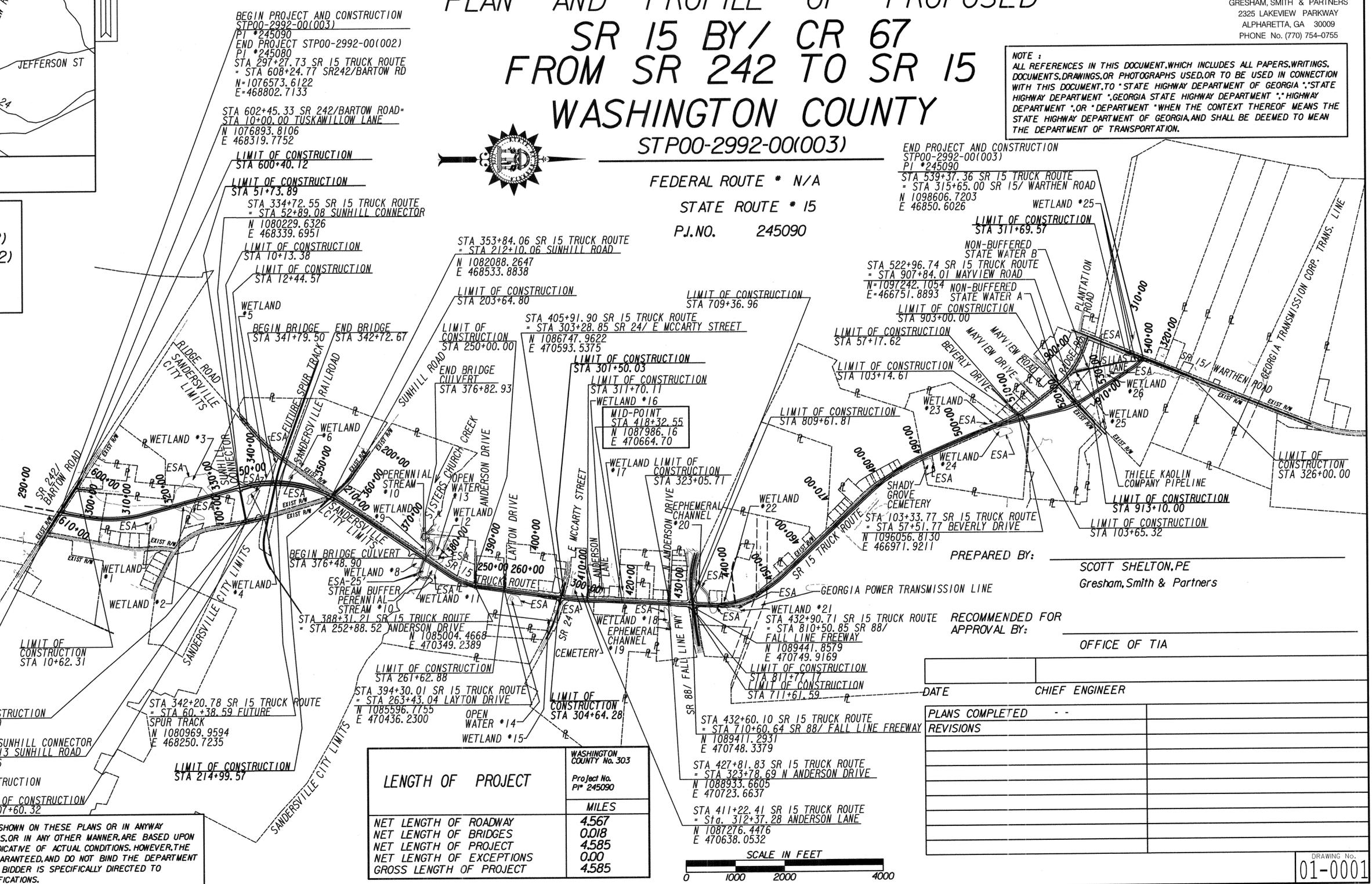
LOCATION & DESIGN APPROVAL DATE:

FUNCTIONAL CLASS:
RURAL MINOR ARTERIAL

THIS PROJECT IS 100% IN WASHINGTON COUNTY AND IS 100% IN CONG. DIST. NO. 10

PROJECT DESIGNATION: STATE FUNDED

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE), AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.



LENGTH OF PROJECT	
NET LENGTH OF ROADWAY	4.567
NET LENGTH OF BRIDGES	0.018
NET LENGTH OF PROJECT	4.585
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	4.585



PREPARED BY: SCOTT SHELTON, PE
Gresham, Smith & Partners
RECOMMENDED FOR APPROVAL BY: OFFICE OF TIA

DATE	CHIEF ENGINEER
PLANS COMPLETED	
REVISIONS	

THE DATA TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

GENERAL NOTES

1. THE DISTURBED AREA IS 99.55 ACRES.
2. A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT.
3. ALL EXISTING PIPES SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS. PAYMENT FOR ALL PIPE REMOVALS SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE.
4. PAYMENT FOR CLEANING DEBRIS FROM PIPES SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR STORM DRAIN PIPE.
5. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. DRIVES SHOWN ON PLANS SHALL BE CONSTRUCTED USING:
 - ASPHALT RESIDENTIAL- RECYCLED ASPH CONC 12.5MM SUPERPAVE, GP 2 ONLY, INC BITUM MATL & H LIME (165 LBS/SY) GRADED AGGREGATE BASE, 6"
 - ASPHALT COMMERCIAL- RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD) RECYCLED ASPH CONCRETE 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD) GRADED AGGREGATE BASE, 6"
6. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION
7. THERE IS NO SUITABLE PLACE TO BURY THE CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF THE CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.
8. ALL ADA WHEELCHAIR RAMPS WITHIN THE RADI SHALL BE 8' CONCRETE.
9. NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY DRAINAGE, TEMPORARY SIGNAGE, OR TEMPORARY PAVEMENT STRIPING ITEMS. COST WILL BE INCLUDED IN THE OVERALL BID SUBMITTED.
10. RECOMMENDED THAT THE TOP 12 INCHES OF SUBGRADE ON THIS PROJECT, INCLUDING CROSS ROADS, BE CONSTRUCTED WITH CLASS 11B3 OR BETTER MATERIAL.
11. A PROTECTIVE ZONE MARKED WITH PROTECTIVE ORANGE BARRIER FENCING WILL BE PLACED INSIDE THE RIGHT-OF-WAY ALONG ENVIRONMENTAL AREAS DURING CONSTRUCTION AND THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES OR ACCESS OCCUR BEYOND THIS ORANGE BARRIER FENCING.

12. THE FOLLOWING UTILITY OWNERS HAVE FACILITIES IN THE PROJECT AREA:

SERVICE	UTILITY OWNER
Telecommunications	Georgia Public Web
Kaolin Slurry	Thiele Kaolin Company
Electric Distribution	Washington EMC
Natural Gas	Atlanta Gas & Light
Telecommunications	Charter Communications
Telecommunications	AT & T
Electric	GA Transmission Corp.
Electric	GA Power
Railroad	Sandersville Railroad

13. UTILITY RELOCATION WAS DELINEATED FROM UTILITY OWNER MARKUPS.



GENERAL NOTES - STANDARD SIGNS

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
- 4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.
- 4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- 4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1*2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3*8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1*2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
8. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
10. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
11. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.
12. A 1*2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3*8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
14. INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES 'D' LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.
15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.
17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

Pipe Culvert Material Alternates For Coastal Plain Region

TYPE OF PIPE INSTALLATION	C O N C R E T E	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
		ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE 'S'	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949
LONGITUDINAL INTERSTATE AND TRAVEL BEARING	X							
LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING	X	X		X	X	X	X	X
S T O R M D R A I N	GRADE ≤ 10%	ADT < 250	X	X	X	X	X	X
		250 < ADT < 1,500	X		X	X	X	X
		1,500 < ADT < 15,000	X			X	X	X
		ADT > 15,000	X					
GRADE > 10%	ADT < 250	X	X	X	X	X	X	
	ADT > 250			X	X	X	X	
SIDE DRAIN	X	X	X	X	X	X	X	
PERMANENT SLOPE DRAIN		X	X	X	X	X	X	
PERFORATED UNDERDRAIN		X	X	X	X	X	X	

* This type pipe can be used if the addition of Type 'B' Coating (AASHTO M-190, Half Bituminous Coated with Paved Invert) is utilized.

NOTE:

- Allowable materials are indicated by an 'X'.
- Structural requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P, whichever is applicable, and the Standard Specifications.
- Graded aggregate backfill shall be used in cross drain applications for all plastic pipes (AASHTO M-294, HDPE pipe; AASHTO M-304, PVC pipe; ASTM F-949, PVC pipe)
- The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
- Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.
- County default specific pH (>6) and Resistivity (<1000) values were used to determine allowable pipe materials.
- Cross Drain and Storm Drain Pipe
Unless noted otherwise in the plans, the pipe sizes specified for cross drain pipe and storm drain pipe are based on a Manning's 'N' design value of 0.012. Alternate pipe materials with Manning's 'N' design value less than or equal to 0.012 may be used as noted in the allowable pipe material chart.

The contractor may, at his own expense submit other designs considering alternate pipe materials with Manning's 'N' design values greater than 0.012 to the project engineer for approval. The submitted designs shall be stamped and sealed by a qualified professional engineer.

Side Drain Pipe and Under Drain Pipe
Alternate pipe materials may be used as noted in the allowable pipe materials chart. Side drain pipe normally designed using a Manning's 'N' value for corrugated metal pipe. Submission of alternate designs with lesser friction coefficients is not required.

	GRESHAM SMITH AND PARTNERS	REVISION DATES			GENERAL NOTES	
					PROJECT: STP00-2992-00(003) COUNTY: WASHINGTON	
				CHECKED:	DATE:	DRAWING No.
				BACKCHECKED:	DATE:	04-0002
				CORRECTED:	DATE:	
				VERIFIED:	DATE:	

TRAFFIC SIGNAL GENERAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.
2. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.
3. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET, DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROL CABINET.
4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES PRIOR TO ORDERING. AT THE DISCRETION OF THE ENGINEER, MINOR SHIFTS, (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF NEW SIGNAL POLES, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS.
5. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATIONS(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DISTRICT TRAFFIC ENGINEER PRIOR TO FINAL ACCEPTANCE.
8. WHEN REMOVED, EXISTING EQUIPMENT SHALL BE DELIVERED AND UNLOADED BY THE CONTRACTOR TO THE DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC OPERATIONS DISTRICT SIGNAL SHOP. CONTACT THE DISTRICT SIGNAL ENGINEER AT (____)____-_____.
9. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.
10. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE DOT SPECIFICATION.
11. THE INSTALLATIONS SHALL BE CAPABLE OF MONITORING OVER ETHERNET NETWORKS FROM EXISTING CENTRAL COMPUTERS OR VIA "CLOSED LOOP" MONITORING, PER THE DISTRICT SIGNAL ENGINEER. CENTRAL COMUPTERS ARE LOCATED AT 935 EAST CONFEDERATE AVENUE BLDG. 24 ATLANTA, GEORGIA 30316. NETWORK ABILITIES DEMONSTRATION IS REQUIRED AT CENTRAL SITES. NOTED PRIOR TO FINAL ACCEPTANCE.
12. ALL EXISTING STOP BARS, WORDS, ARROWS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE REPLACED IN ACCORDANCE WITH CURRENT GDOT STANDARDS.
13. PROPOSED SIGNAL SUPPORT WIRE ATTACHMENT HEIGHTS ON POLES ARE PROVIDED AS GENERAL GUIDELINES TO INSTALLER, ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES.
14. SAWCUTS AND REMOVAL OF ALL CONCRETE ASSOCIATED WITH CURB CUT RAMPS SHALL BE INCLUDED IN THE SIDEWALK PAY ITEM.
15. THE CONTRACTOR SHALL REPLACE IN KIND AND SIZE, AT NO SEPARATE EXPENSE TO THE DEPARTMENT, ANY BARRIER WALL, FENCE, DITCH PAVING, CURBING, SIDEWALK, GUTTER, SLOPE PAVEMENT, SIGNS, GUARDRAILS, LANDSCAPING, GRASSINGS, UTILITY SERVICE LINES, STORM DRAIN PIPES, MASONRY WALLS AND PAVING THAT IS REMOVED, DAMAGED OR DESTROYED, DUE TO CONTRACTOR'S ACTIVITY.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES TO ENSURE COMPLIANCE TO ALL STATE AND FEDERAL LAWS AND GUIDELINES. THE COST SHALL BE CONSIDERED INCIDENTAL AND BE INCLUDED IN THE OVERALL BID PRICE. NO ADDITIONAL PAYMENTS SHALL BE MADE TO THE CONTRACTOR FOR EROSION CONTROL.
17. ALL TRAFFIC MARKING, SYMBOLS OR STRIPING TO BE REMOVED AND/OR REPLACED SHALL BE PAID FOR IN THE TRAFFIC CONTROL LUMP SUM ITEM.
18. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH MODIFYING EXISTING AND ESTABLISHING NEW POWER AND COMMUNICATIONS SERVICES FOR TRAFFIC SIGNAL, VIDEO DETECTION SYSTEMS AND/OR CCTV CAMERAS ON THIS PROJECT. IF A UTILITY TRANSFORMER IS REQUIRED FOR TRAFFIC SIGNAL EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE AS PART OF THEIR BID PRICE, FOR THAT TRAFFIC SIGNAL INSTALLATION IF THE RESPECTIVE UTILITY REQUIRES PAYMENT FOR INSTALLTION
19. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MONTHLY POWER AND COMMUNICATION SERVICE TO THE TRAFFIC SIGNAL INSTALLTION AND SUPPORT DEVICES, UNTIL THE NEW TRAFFIC SIGNAL INSTALLTION HAS SATISFACTORILY COMPLETED A TEST PERIOD OF UNINTERRUPTED OPERTATION, FOR 30 DAYS. UPON COMPLETION OF THE TEST PERIOD, THE CONTRACTOR WILL COMPLETE A TRANSFER OF UTILITY COST TO GDOT.

	 GRESHAM SMITH AND PARTNERS	REVISION DATES <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>													GENERAL NOTES PROJECT: STP00-2992-00(003) COUNTY: WASHINGTON
		<table border="1" style="width: 100%; height: 30px;"> <tr> <td>CHECKED:</td> <td>DATE:</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> </tr> </table>	CHECKED:	DATE:	BACKCHECKED:	DATE:	CORRECTED:	DATE:	VERIFIED:	DATE:	DRAWING No. 04-0003				
CHECKED:	DATE:														
BACKCHECKED:	DATE:														
CORRECTED:	DATE:														
VERIFIED:	DATE:														

Environmental Resources Impact Table
These resources and the restrictions listed are governed by state and federal law.

Resource Name (from Section A of the ECT)	Location Beginning STA Ending STA Side	Permitted Construction Activity (from Section A of the ECT)	Special Provision? (from Section B of the ECT)	Comments (from Section C of the ECT, comments only)
Irwin Farm		None	n/a	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Harrison Farm		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Forest Grove		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Brown House		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Bridges House		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Etheridge House		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Site 9WGXXX		None	*	The contractor will ensure that no construction-related activities or access occur beyond the Orange Barrier Fencing protecting this resource.
Sisters Church Cemetery		None	*	The contractor will ensure that no construction-related activities or access occur beyond the Orange Barrier Fencing protecting this resource.
Wetland 1		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 2		0.425 acre (0.381 permanent and 0.044 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 3		0.408 acre (0.362 permanent and 0.046 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.

		REVISION DATES			GENERAL NOTES	
					PROJECT: STP00-2992-00(003) COUNTY: WASHINGTON	
		CHECKED:	DATE:	DRAWING No.		
		BACKCHECKED:	DATE:	04-0004		
		CORRECTED:	DATE:			
		VERIFIED:	DATE:			

Environmental Resources Impact Table
 These resources and the restrictions listed are governed by state and federal law.

Resource Name (from Section A of the ECT)	Location Beginning STA Ending STA Side	Permitted Construction Activity (from Section A of the ECT)	Special Provision? (from Section B of the ECT)	Comments (from Section C of the ECT, comments only)
Wetland 4		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 5		0.019 acre (0.016 permanent and 0.003 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 6		0.018 acre (0.011 permanent and 0.006 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 7		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 8		0.377 acre (0.349 permanent and 0.029 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 9		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Perennial Stream 10		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Perennial Stream 10 Buffer		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 11		0.373 acre (0.334 permanent and 0.039 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 12		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.

	 GRESHAM SMITH AND PARTNERS	REVISION DATES			GENERAL NOTES		
					PROJECT: STP00-2992-00(003) COUNTY: WASHINGTON		
		CHECKED:	DATE:	DRAWING No.			
		BACKCHECKED:	DATE:	04-0005			
		CORRECTED:	DATE:				
		VERIFIED:	DATE:				

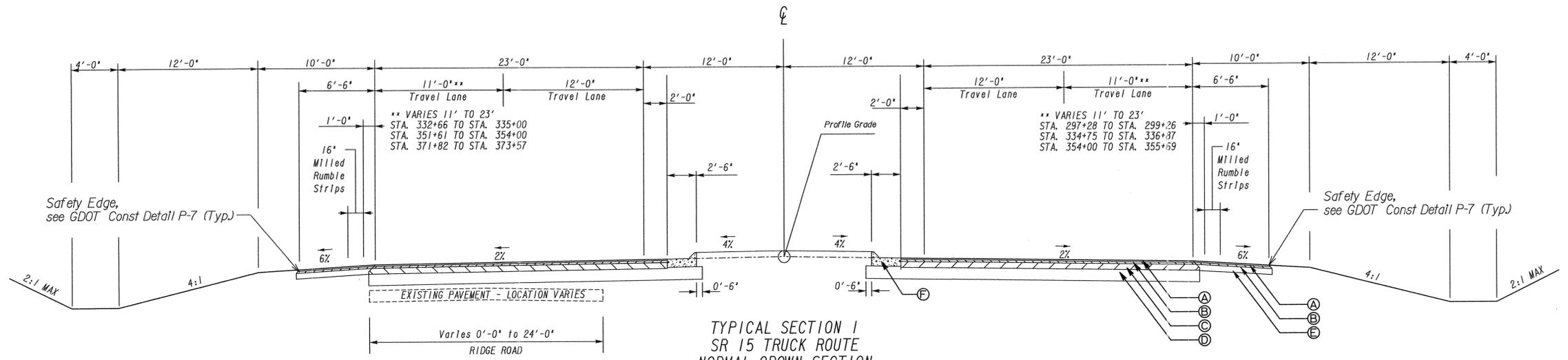
*Environmental Resources Impact Table
 These resources and the restrictions listed are governed by state and federal law.*

Resource Name (from Section A of the ECT)	Location Beginning STA Ending STA Side	Permitted Construction Activity (from Section A of the ECT)	Special Provision? (from Section B of the ECT)	Comments (from Section C of the ECT, comments only)
Open Water 14		0.063 acre temporary	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 15		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 16		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 17		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 18		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Ephemeral Channel 19		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Ephemeral Channel 20		0.048 acre (0.042 permanent and 0.006 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 21		0.352 acre (0.165 permanent and 0.187 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 22		0.451 acre (0.388 permanent and 0.063 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 23		0.354 acre (0.216 permanent and 0.137 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.

		REVISION DATES			GENERAL NOTES		
					PROJECT: STP00-2992-00(003) COUNTY: WASHINGTON		
		CHECKED:	DATE:	DRAWING No.		04-0006	
		BACKCHECKED:	DATE:				
		CORRECTED:	DATE:				
		VERIFIED:	DATE:				

Environmental Resources Impact Table		These resources and the restrictions listed are governed by state and federal law.		
Resource Name (from Section A of the ECT)	Location Beginning STA Ending STA Side	Permitted Construction Activity (from Section A of the ECT)	Special Provision? (from Section B of the ECT)	Comments (from Section C of the ECT, comments only)
Wetland 24		0.068 acre (0.034 permanent and 0.034 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 25		0.442 acre (0.420 permanent and 0.021 temporary)	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wetland 26		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Intermittent Stream 27		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Intermittent Stream 27 Buffer		None	*	The contractor shall ensure that no construction-related activities (such as the use of easements, staging, construction, vehicular use, borrow or waste activities, sediment basins, and trailer placement), other than those shown on the approved plans, occur within the boundary of this resource.
Wildlife and Habitat		Project construction to avoid impacts to migratory birds	SP 107.23.G	n/a
404 Permits and Variances (from Section D of the ECT) Notice of Intent (NOI) for NPDES		Expiration dates (if applicable) Contact GDOT OES 6 months prior to expiration, if work will extend beyond this date.		

		REVISION DATES			GENERAL NOTES	
					PROJECT: STP00-2992-00(003) COUNTY: WASHINGTON	
		CHECKED:	DATE:	DRAWING No.		
		BACKCHECKED:	DATE:	04-0007		
		CORRECTED:	DATE:			
		VERIFIED:	DATE:			



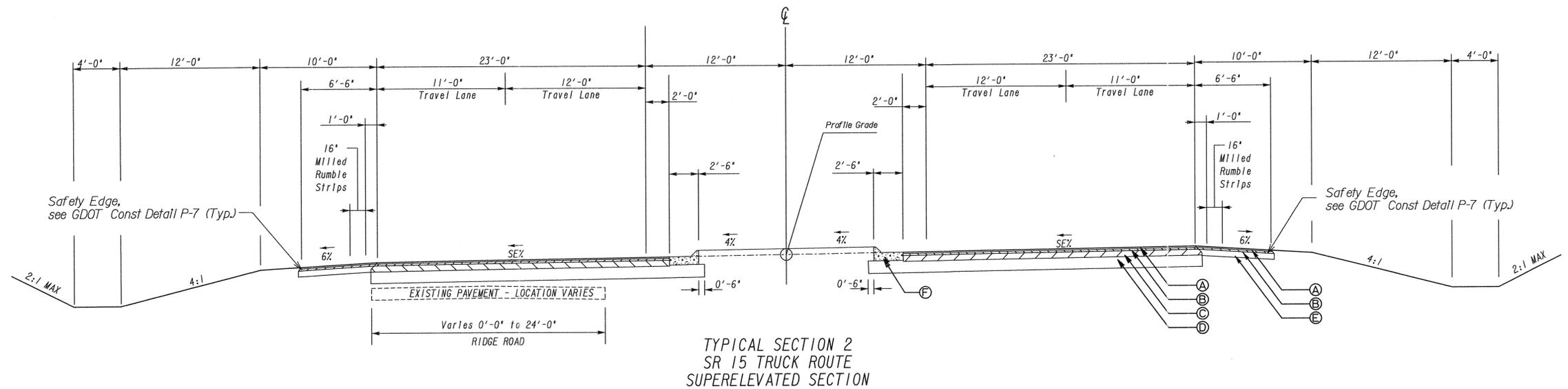
REQUIRED PAVEMENT

- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SQ YD)
- Ⓓ GR AGGR BASE CRS, 10 INCH, INCL MATL
- Ⓔ GR AGGR BASE CRS, 6 INCH, INCL MATL
- Ⓕ CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓖ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- Ⓗ 5' CONCRETE SIDEWALK

SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	—	0-10'
2:1	ALL	OVER 10'



GRESHAM
SMITH AND
PARTNERS



NOT TO SCALE

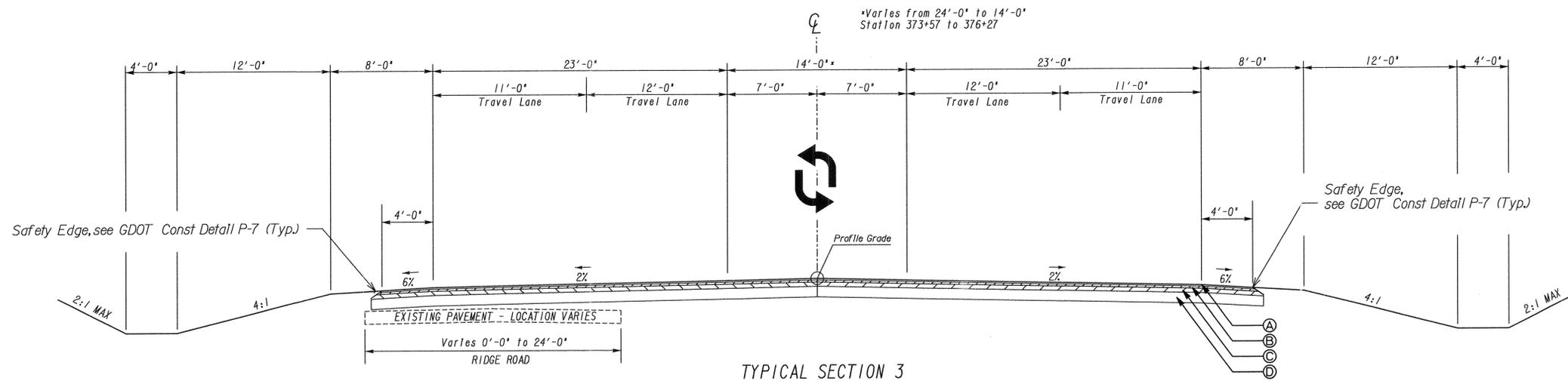
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

PROJECT: STP00-2992-00(003)
COUNTY: WASHINGTON

CHECKED:	DATE:	DRAWING No.
		05-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



TYPICAL SECTION 3
SR 15 TRUCK ROUTE
NORMAL CROWN SECTION
STA 373+57 TO STA 406+67
STA 406+67 TO STA 539+37.36

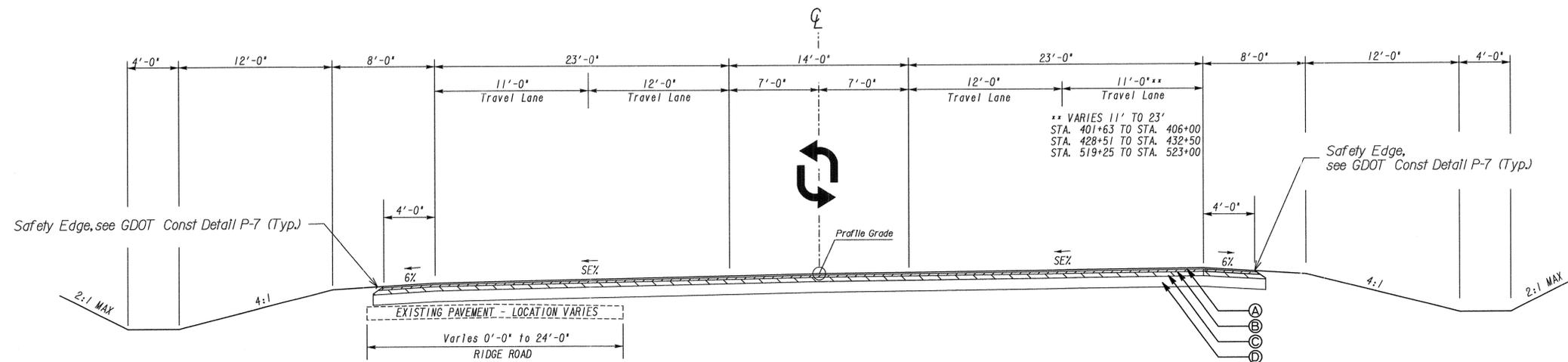
REQUIRED PAVEMENT

- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SQ YD)
- Ⓓ GR AGGR BASE CRS, 10 INCH, INCL MATL
- Ⓔ GR AGGR BASE CRS, 6 INCH, INCL MATL
- Ⓕ CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓖ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- Ⓖ 5' CONCRETE SIDEWALK

SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	—	0-10'
2:1	ALL	OVER 10'



TYPICAL SECTION 4
SR 15 TRUCK ROUTE
SUPERELEVATED SECTION



G R E S H A M
S M I T H A N D
P A R T N E R S



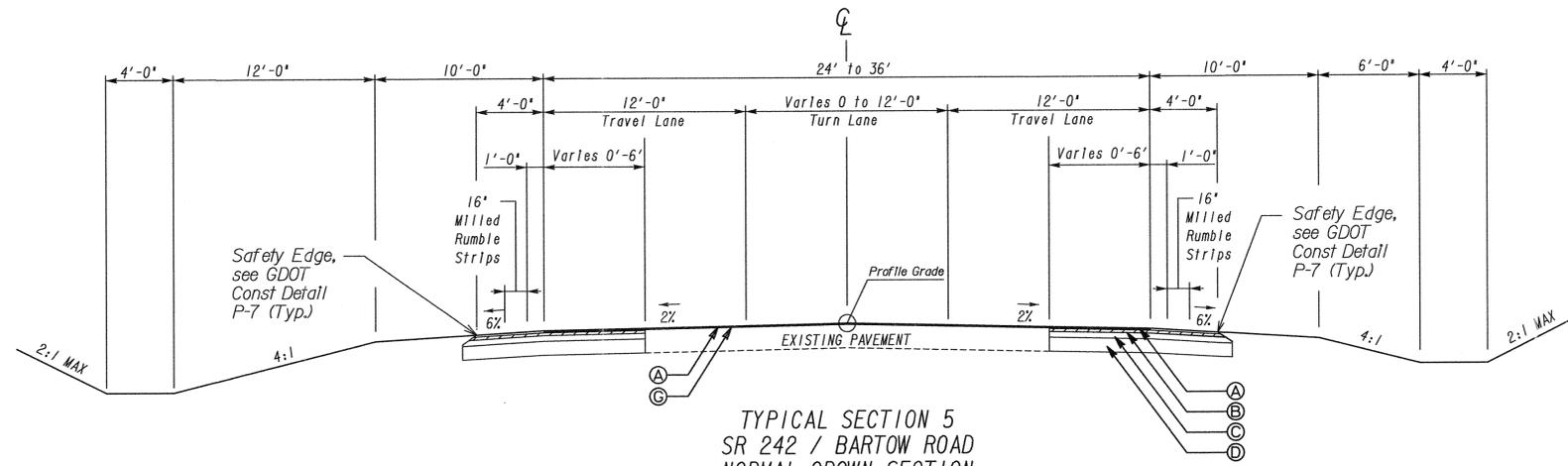
NOT TO SCALE

REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS
PROJECT: STPO0-2992-00(003)
COUNTY: WASHINGTON

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

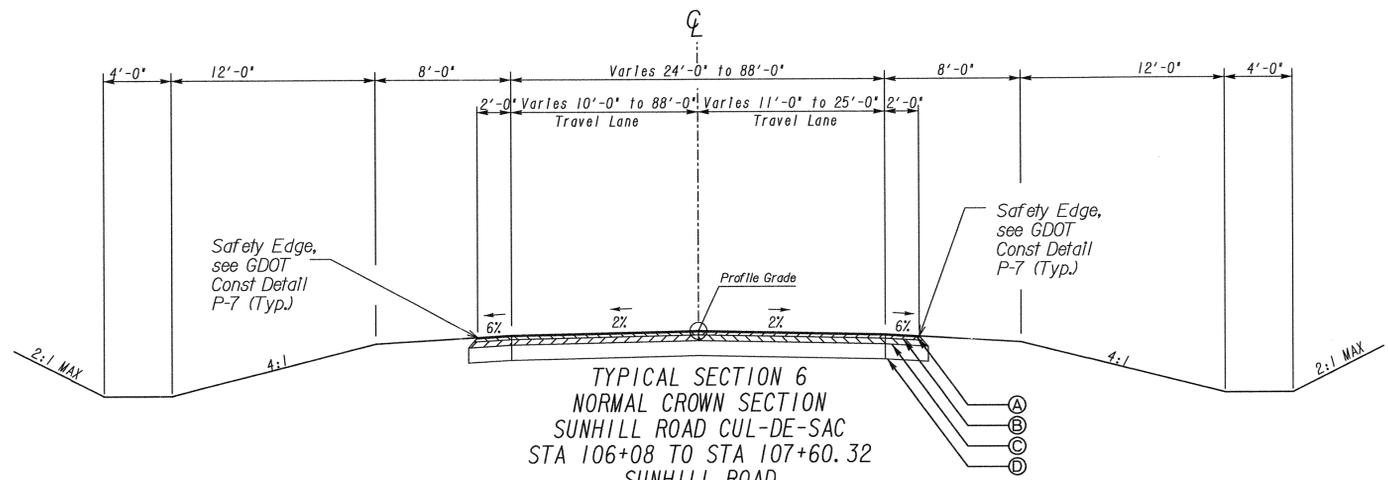


TYPICAL SECTION 5
SR 242 / BARTOW ROAD
NORMAL CROWN SECTION
STA 600+40 TO STA 613+00

REQUIRED PAVEMENT

- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SQ YD)
- Ⓓ GR AGGR BASE CRS, 10 INCH, INCL MATL
- Ⓔ GR AGGR BASE CRS, 6 INCH, INCL MATL
- Ⓕ CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓖ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- Ⓖ 5' CONCRETE SIDEWALK

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	—	0-10'
2:1	ALL	OVER 10'



TYPICAL SECTION 6
NORMAL CROWN SECTION
SUNHILL ROAD CUL-DE-SAC
STA 106+08 TO STA 107+60.32
SUNHILL ROAD
STA 103+50 TO STA 107+60

SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.



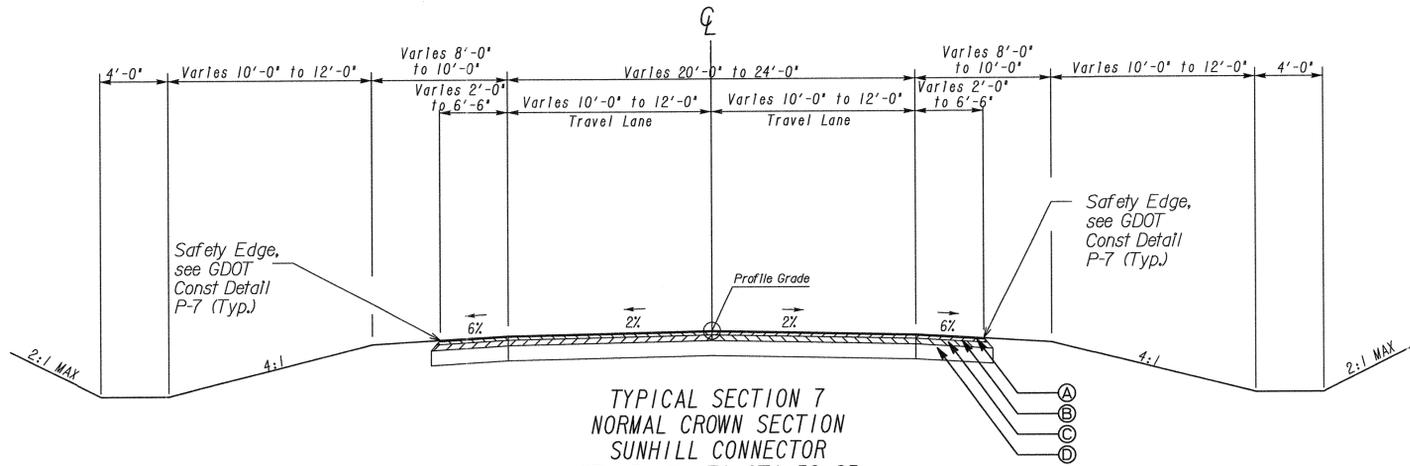
GRESHAM
SMITH AND
PARTNERS



NOT TO SCALE

REVISION DATES

TYPICAL SECTIONS			
PROJECT: STP00-2992-00(003)			
COUNTY: WASHINGTON			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	05-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

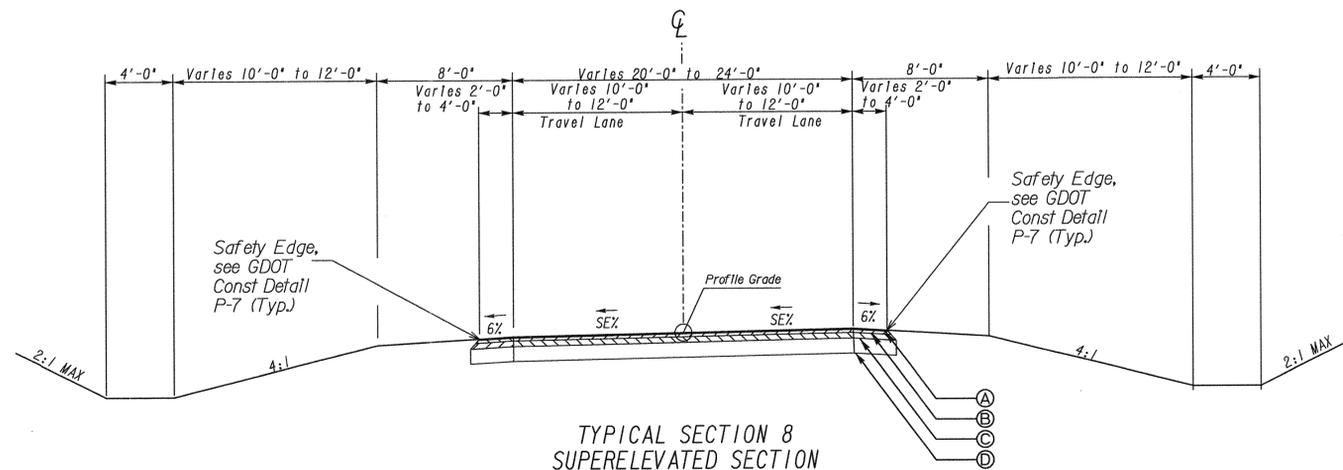


TYPICAL SECTION 7
 NORMAL CROWN SECTION
 SUNHILL CONNECTOR
 STA 51+74 TO STA 59+85
 SUNHILL ROAD
 STA 103+50 TO STA 106+08
 SUNHILL ROAD
 STA 203+65 TO STA 215+00
 ANDERSON DRIVE
 STA 250+00 TO STA 252+20
 LAYTON DRIVE
 STA 261+63 TO STA 263+13
 SR 24/E McCARTY STREET
 STA 303+75 TO STA 304+64
 ANDERSON LANE
 STA 307+11 TO STA 312+10
 N ANDERSON DRIVE
 STA 323+06 TO STA 323+45

REQUIRED PAVEMENT

- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SQ YD)
- Ⓓ GR AGGR BASE CRS, 10 INCH, INCL MATL
- Ⓔ GR AGGR BASE CRS, 6 INCH, INCL MATL
- Ⓕ CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓖ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- Ⓖ 5' CONCRETE SIDEWALK

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	—	0-10'
2:1	ALL	OVER 10'



TYPICAL SECTION 8
 SUPERELEVATED SECTION
 ANDERSON DRIVE
 ANDERSON LANE
 TUSKAWILLOW LANE
 SUNHILL ROAD

SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.



GRESHAM
 SMITH AND
 PARTNERS



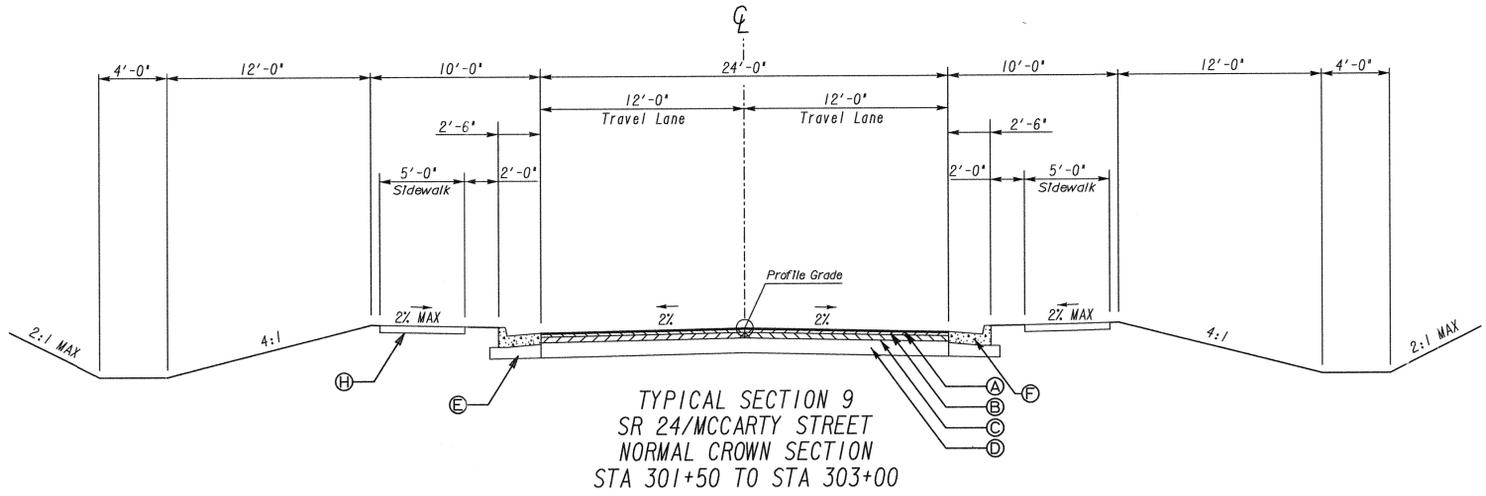
NOT TO SCALE

REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS
 PROJECT: STP00-2992-00(003)
 COUNTY: WASHINGTON

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REQUIRED PAVEMENT

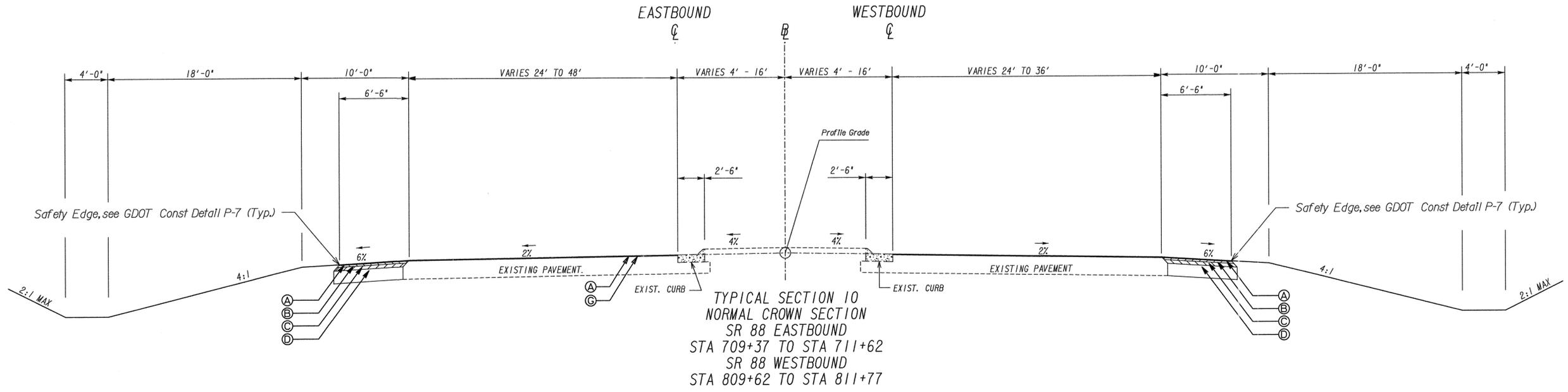
- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SQ YD)
- Ⓓ GR AGGR BASE CRS, 10 INCH, INCL MATL
- Ⓔ GR AGGR BASE CRS, 6 INCH, INCL MATL
- Ⓕ CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓖ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- Ⓗ 5' CONCRETE SIDEWALK

SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.

SHOULDER MAY BE GRADED AWAY FROM ROADWAY TO FACILITATE THE SLOPE TIE TO EXISTING GROUND.

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	—	0-10'
2:1	ALL	OVER 10'

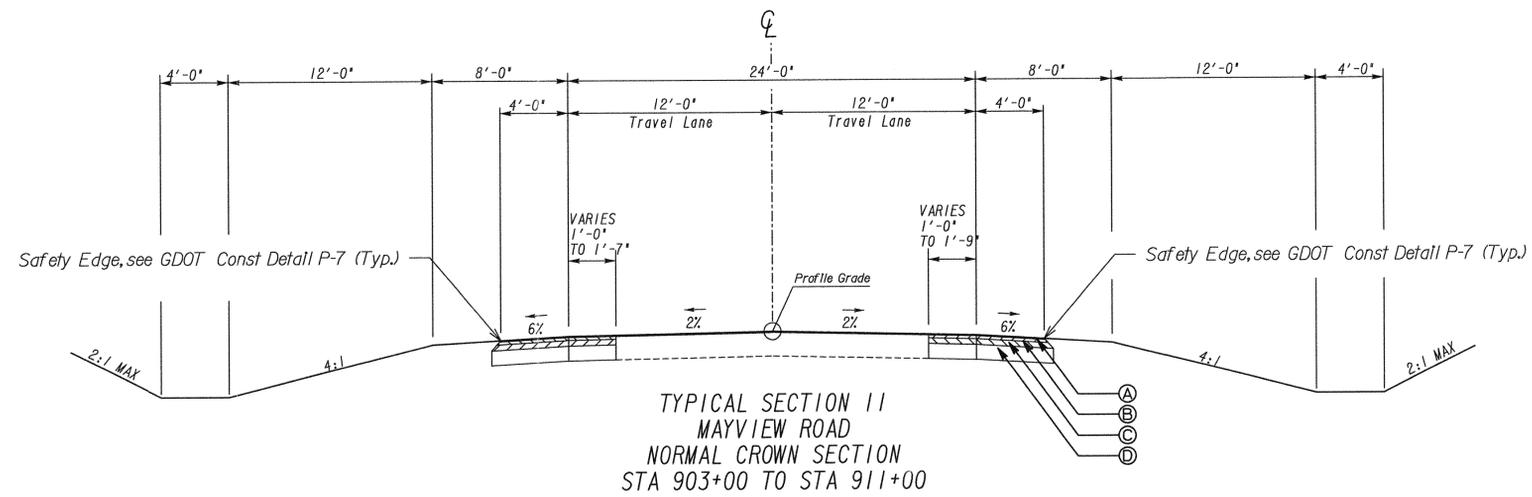


NOT TO SCALE

REVISION DATES	

TYPICAL SECTIONS
PROJECT: STP00-2992-00(003)
COUNTY: WASHINGTON

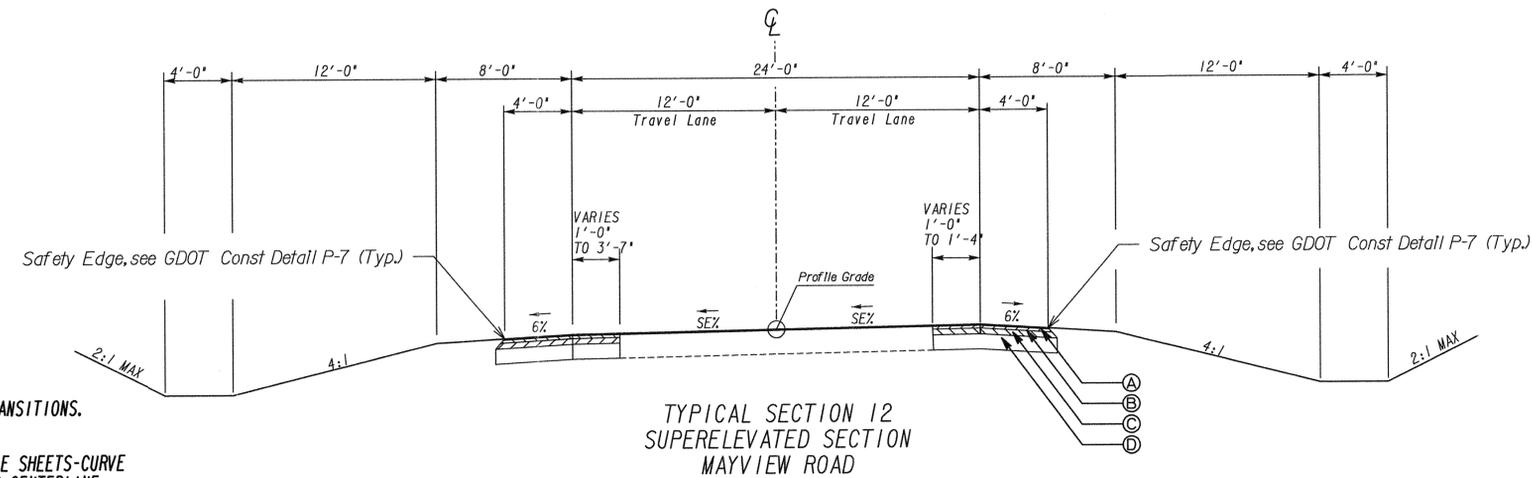
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REQUIRED PAVEMENT

- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SQ YD)
- Ⓓ GR AGGR BASE CRS, 10 INCH, INCL MATL
- Ⓔ GR AGGR BASE CRS, 6 INCH, INCL MATL
- Ⓕ CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓖ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- Ⓗ 5' CONCRETE SIDEWALK

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	—	0-10'
2:1	ALL	OVER 10'



SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.



GRESHAM
SMITH AND
PARTNERS



NOT TO SCALE

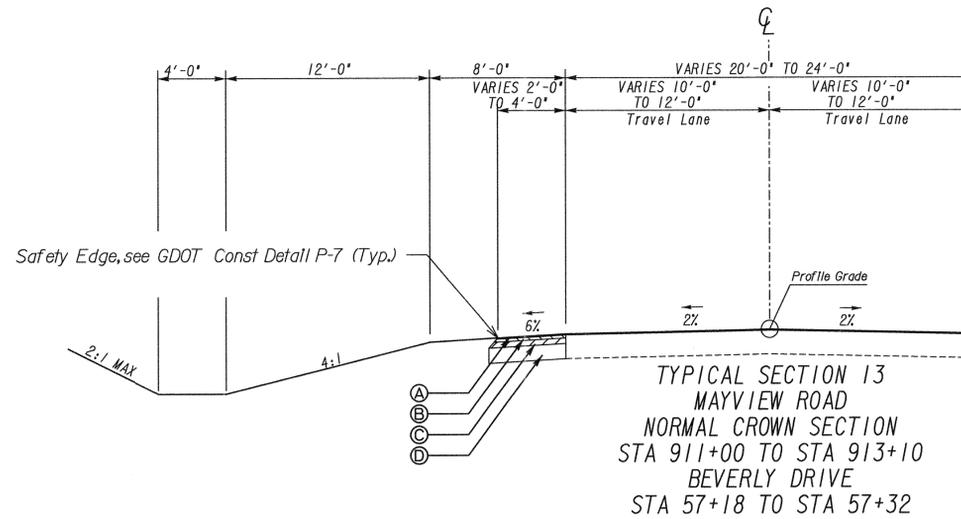
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

PROJECT: STP00-2992-00(003)
COUNTY: WASHINGTON

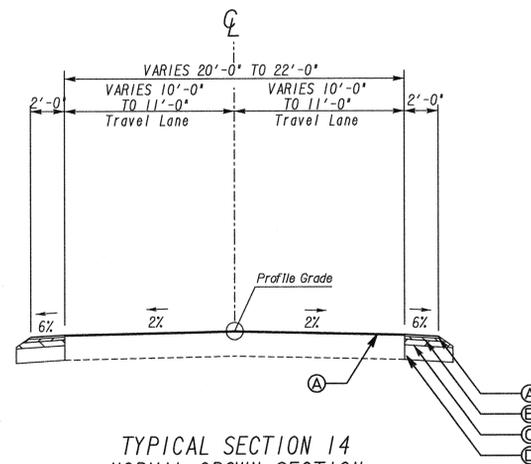
CHECKED:	DATE:	DRAWING No.
		05-0006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	---	0-10'
2:1	ALL	OVER 10'

SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.



REQUIRED PAVEMENT

- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
- Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
- Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SQ YD)
- Ⓓ GR AGGR BASE CRS, 10 INCH, INCL MATL
- Ⓔ GR AGGR BASE CRS, 6 INCH, INCL MATL
- Ⓕ CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓖ RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME
- Ⓖ 5' CONCRETE SIDEWALK



G R E S H A M
S M I T H A N D
P A R T N E R S



NOT TO SCALE

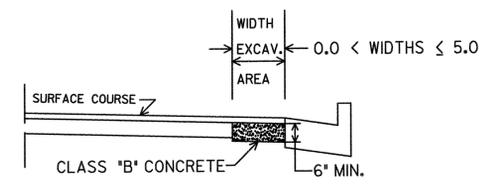
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

PROJECT: STP00-2992-00(003)
COUNTY: WASHINGTON

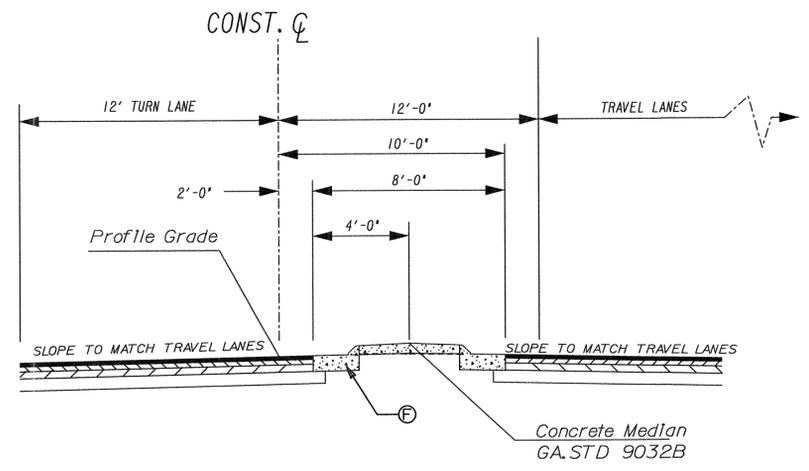
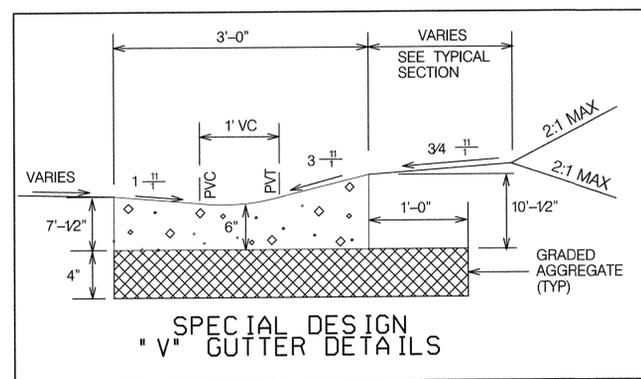
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



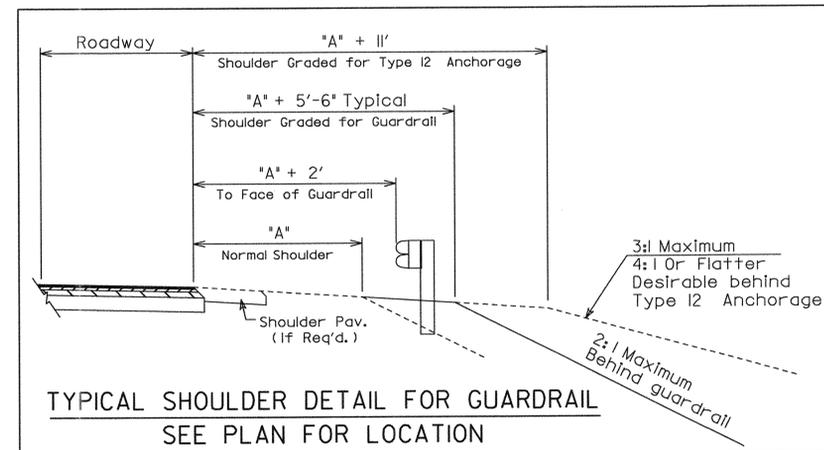
NO SCALE
 CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
 Item Code 500-9999 - Cu. Yds.

In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "Class B Concrete Base and Pavement Widening".
 In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.
 See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE OR WIDENING DETAIL



DETAIL FOR MEDIAN TURN LANE
 SEE PLANS FOR LOCATIONS



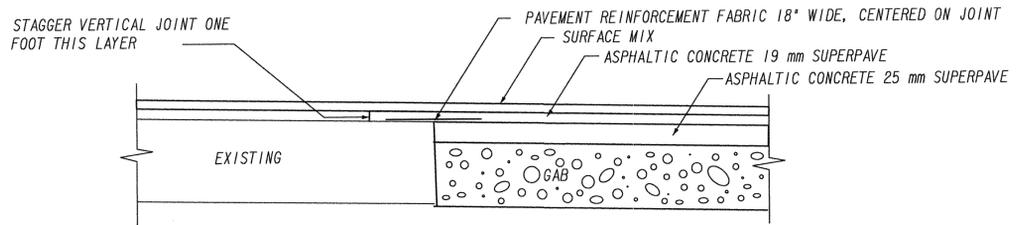
TYPICAL SHOULDER DETAIL FOR GUARDRAIL
 SEE PLAN FOR LOCATION

ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

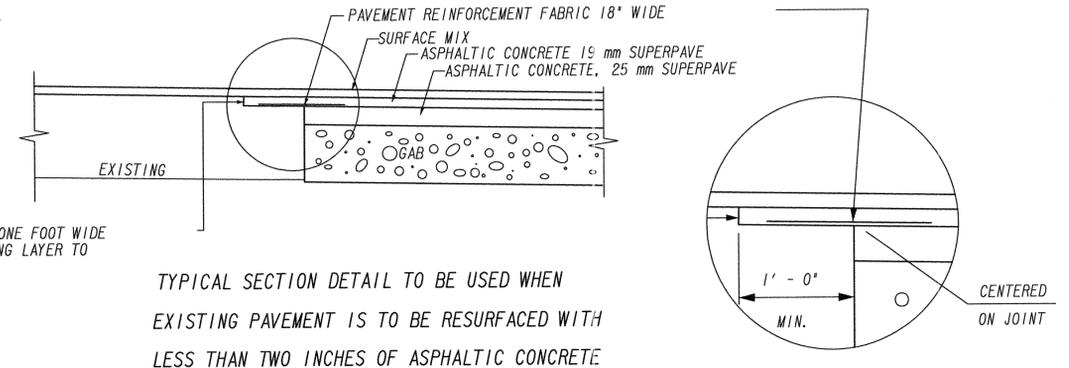
- A. NORMAL CROWN**
- | SECTION WITH GRADES 0.5% OR GREATER | SECTION WITH GRADES LESS THAN 0.5% |
|-------------------------------------|------------------------------------|
| 0.0150 FT/FT - MINIMUM | 0.0156 FT/FT - MINIMUM |
| 0.0208 FT/FT - DESIRABLE | 0.0208 FT/FT - DESIRABLE |
| 0.0250 FT/FT - MAXIMUM | 0.0300 FT/FT - MAXIMUM |
- B. SUPERELEVATION RATE**
 S. E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.
- C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)**
- | RATE OF CHANGE | CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT |
|-----------------|--|
| MINIMUM 1:150 | 0.67% |
| DESIRABLE 1:200 | 0.50% |
| MAXIMUM 1:300 | 0.33% |
- LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.
- D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES**
- 50% OF TRANSITION INSIDE CURVE - MAXIMUM
 33% OF TRANSITION INSIDE CURVE - DESIRABLE
 20% OF TRANSITION INSIDE CURVE - MINIMUM
- NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.
- E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION**
 SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE



PAVEMENT FABRIC DETAILS

MILL EXISTING LANE ONE FOOT WIDE TO DEPTH OF ADJOINING LAYER TO BE PLACED.



TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE



GRESHAM
 SMITH AND
 PARTNERS



NOT TO SCALE

REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

PROJECT: STP00-2992-00(003)
 COUNTY: WASHINGTON

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Curve* 1
PI Sta= 308+94.43
N= 1077720.5461
E= 469016.5678
DELTA= 25°39'33.0" (LT)
D= 2°07'05.32"
T= 616.03
L= 1211.40
R= 2705.00
E= 69.26
e= 4.20%

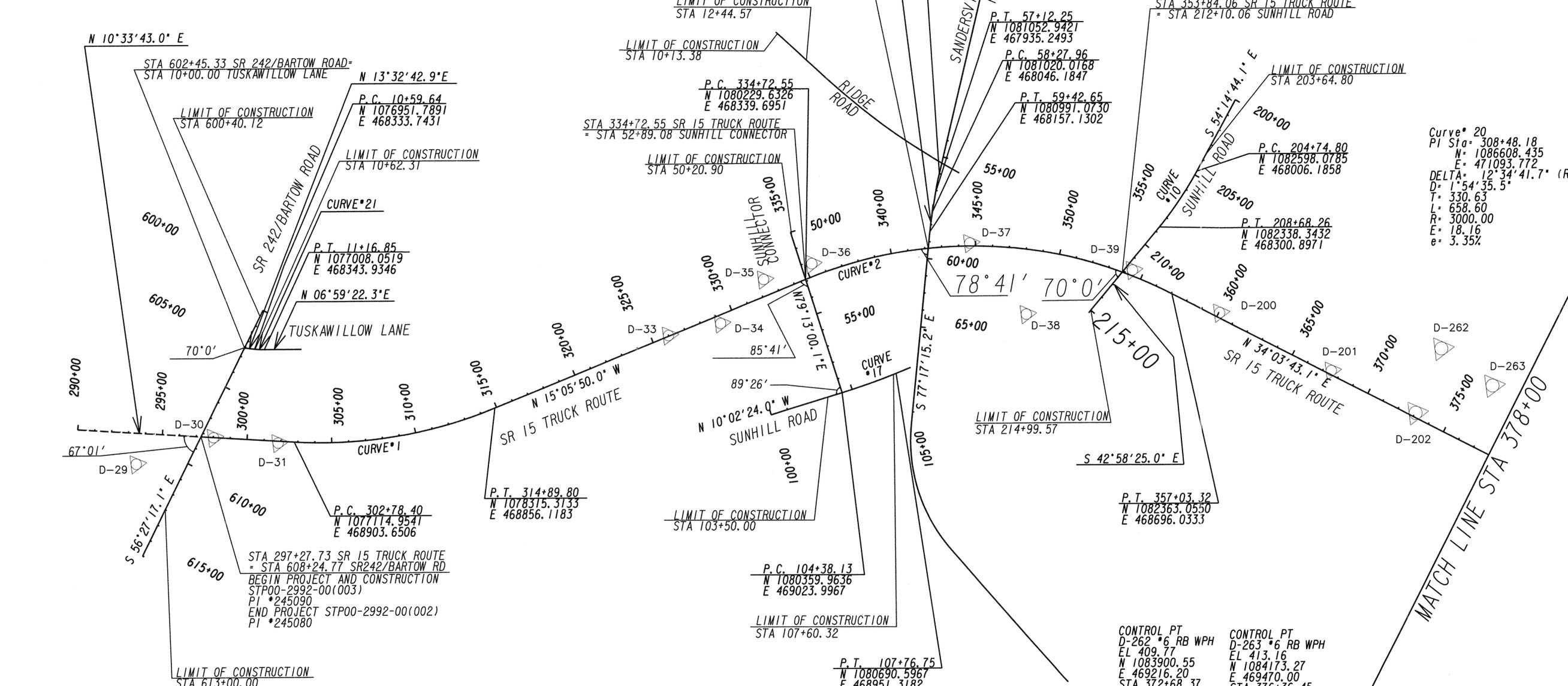
Curve* 2
PI Sta= 346+61.80
N= 1081377.8393
E= 468029.9450
DELTA= 49°09'33.1" (RT)
D= 2°12'13.26"
T= 1189.25
L= 2230.77
R= 2600.00
E= 259.08
e= 4.20%

Curve* 21
PI Sta= 10+88.27
N= 1076979.6287
E= 468340.4500
DELTA= 6°33'20.6" (LT)
D= 11°27'33.0"
T= 28.64
L= 57.21
R= 500.00
E= 0.82
e= N/A

Curve* 17
PI Sta= 106+07.54
N= 1080690.597
E= 468951.318
DELTA= 4°42'53.1" (LT)
D= 1°23'32.4"
T= 169.41
L= 338.53
R= 4115.08
E= 3.49
e= NC

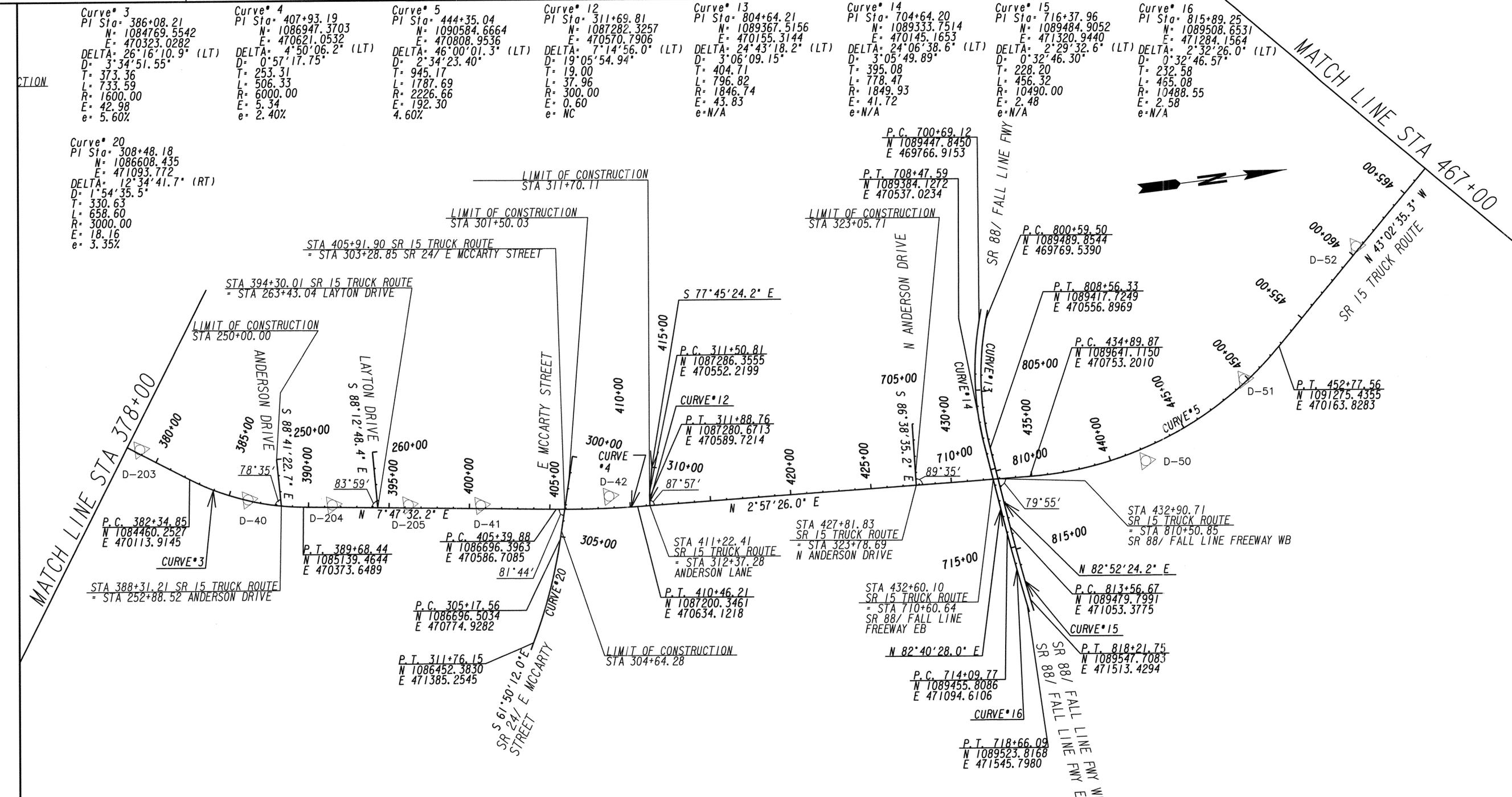
Curve* 10
PI Sta= 206+72.17
N= 1082482.7527
E= 468166.3575
DELTA= 11°16'19.1" (RT)
D= 2°51'53.24"
T= 197.37
L= 393.47
R= 2000.00
E= 9.72
e= 2.40%

Curve* 23
PI Sta= 58+85.33
N= 1081003.696
E= 468101.175
DELTA= 3°49'05.9" (LT)
D= 3°19'46.3"
T= 57.36
L= 114.68
R= 1720.84
E= 0.96
e= N/A



CONTROL PT D-29 *6 RBWC EL 425.55 N 1076174.74 E 468892.80 STA 293+53.51 180.81' RT	CONTROL PT D-30 *6 RB WPH EL 437.52 N 1076646.73 E 468816.85 STA 297+99.91 0.03' LT	CONTROL PT D-31 *6 RB WPH EL 442.31 N 1077019.91 E 468896.91 STA 301+81.45 10.27' RT	CONTROL PT D-33 *6 RB WPH EL 444.86 N 1079385.45 E 468562.72 STA 326+37.50 23.80' LT	CONTROL PT D-34 *6 RB WPH EL 450.48 N 1079699.56 E 468531.10 STA 329+38.36 77.49' RT	CONTROL PT D-35 *6 RB WPH EL 458.64 N 1079983.13 E 468253.20 STA 332+82.65 37.93' LT	CONTROL PT D-36 *6 RB WPH EL 465.62 N 1080276.80 E 468308.44 STA 335+78.00 25.88' LT	CONTROL PT D-37 *6 RB WPH EL 445.71 N 1081216.80 E 468251.21 STA 345+14.40 21.93' LT	CONTROL PT D-38 *6 RB WPH EL 455.84 N 1081495.50 E 468705.75 STA 349+14.57 357.17' RT	CONTROL PT D-39 *6 RB WPH EL 445.79 N 1082149.77 E 468529.32 STA 354+16.98 64.54' LT	CONTROL PT D-200 *6 RB WPH EL 441.68 N 1082628.69 E 468842.06 STA 360+05.17 27.81' LT	CONTROL PT D-201 *6 RB WPH EL 429.94 N 1083240.32 E 469261.50 STA 367+46.79 22.90' LT	CONTROL PT D-262 *6 RB WPH EL 409.77 N 1083900.55 E 469216.20 STA 372+68.37 430.21' LT	CONTROL PT D-263 *6 RB WPH EL 413.16 N 1084173.27 E 469470.00 STA 376+36.45 372.71' LT
---	---	--	--	--	--	--	--	---	--	---	---	--	--

<p>PROPERTY AND EXISTING R/W LINE</p> <p>REQUIRED R/W LINE</p> <p>CONSTRUCTION LIMITS</p> <p>EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES</p> <p>EASEMENT FOR CONSTR OF SLOPES</p> <p>EASEMENT FOR CONSTR OF DRIVES</p>	<p>BEGIN LIMIT OF ACCESS.....BLA</p> <p>END LIMIT OF ACCESS.....ELA</p> <p>LIMIT OF ACCESS</p> <p>REQ'D R/W & LIMIT OF ACCESS</p> <p>ORANGE BARRIER FENCE</p> <p>ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)</p>	<p>G.S.P.</p> <p>GRESHAM SMITH AND PARTNERS</p> <p>SCALE IN FEET</p> <p>0 300 600 1200</p>	<p>REVISION DATES</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>									<p>CONSTRUCTION LAYOUT</p> <p>PROJECT: STP00-2992-00(003)</p> <p>COUNTY: WASHINGTON</p> <p>CHECKED: _____ DATE: _____</p> <p>BACKCHECKED: _____ DATE: _____</p> <p>CORRECTED: _____ DATE: _____</p> <p>VERIFIED: _____ DATE: _____</p> <p>DRAWING No. 11-0001</p>



Curve* 3
 PI Sta= 386+08.21
 N= 1084769.5542
 E= 470323.0282
 DELTA= 26°16'10.9" (LT)
 D= 3'34'51.55"
 T= 373.36
 L= 733.59
 R= 1600.00
 E= 42.98
 e= 5.60%

Curve* 4
 PI Sta= 407+93.19
 N= 1086947.3703
 E= 470621.0532
 DELTA= 4°50'06.2" (LT)
 D= 0°57'17.75"
 T= 253.31
 L= 506.33
 R= 6000.00
 E= 5.34
 e= 2.40%

Curve* 5
 PI Sta= 444+35.04
 N= 1090584.6664
 E= 470808.9536
 DELTA= 46°00'01.3" (LT)
 D= 2°34'23.40"
 T= 945.17
 L= 1787.69
 R= 2226.66
 E= 192.30
 e= 4.60%

Curve* 12
 PI Sta= 311+69.81
 N= 1087282.3257
 E= 470570.7906
 DELTA= 7°14'56.0" (LT)
 D= 19°05'54.94"
 T= 19.00
 L= 37.96
 R= 300.00
 E= 0.60
 e= NC

Curve* 13
 PI Sta= 804+64.21
 N= 1089367.5156
 E= 470155.3144
 DELTA= 24°43'18.2" (LT)
 D= 3°06'09.15"
 T= 404.71
 L= 796.82
 R= 1846.74
 E= 43.83
 e= N/A

Curve* 14
 PI Sta= 704+64.20
 N= 1089333.7514
 E= 470145.1653
 DELTA= 24°06'38.6" (LT)
 D= 3°05'49.89"
 T= 395.08
 L= 778.47
 R= 1849.93
 E= 41.72
 e= N/A

Curve* 15
 PI Sta= 716+37.96
 N= 1089484.9052
 E= 471320.9440
 DELTA= 2°29'32.6" (LT)
 D= 0°32'46.30"
 T= 228.20
 L= 456.32
 R= 10490.00
 E= 2.48
 e= N/A

Curve* 16
 PI Sta= 815+89.25
 N= 1089508.6531
 E= 471284.1564
 DELTA= 2°32'26.0" (LT)
 D= 0°32'46.57"
 T= 232.58
 L= 465.08
 R= 10488.55
 E= 2.58
 e= N/A

Curve* 20
 PI Sta= 308+48.18
 N= 1086608.435
 E= 471093.772
 DELTA= 12°34'41.7" (RT)
 D= 1°54'35.5"
 T= 330.63
 L= 658.60
 R= 3000.00
 E= 18.16
 e= 3.35%

CONTROL PT
 D-203 *6 RB WPH
 EL 414.68
 N 1084176.85
 E 469892.82
 STA 378+76.23
 24.43' LT

CONTROL PT
 D-204 *6 RB WPH
 EL 430.43
 N 1085319.09
 E 470383.73
 STA 391+47.77
 14.37' LT

CONTROL PT
 D-205 *6 RB WPH
 EL 439.89
 N 1084804.63
 E 470443.12
 STA 396+21.12
 19.20' LT

CONTROL PT
 D-40 *6 RB WPH
 EL 421.09
 N 1084804.63
 E 470284.86
 STA 386+63.60
 27.72' LT

CONTROL PT
 D-41 *6 RB WPH
 EL 446.83
 N 1086234.13
 E 470503.37
 STA 401+31.30
 59.00' LT

CONTROL PT
 D-42 *6 RB WPH
 EL 459.20
 N 1087032.27
 E 470548.91
 STA 409+30.73
 61.03' LT

CONTROL PT
 D-50 *6 RBWC
 EL 456.80
 N 1090366.68
 E 470756.11
 STA 442+55.69
 96.38' RT

CONTROL PT
 D-51 *6 RBWC
 EL 469.63
 N 1091034.65
 E 470335.99
 STA 450+27.35
 03.19' LT

CONTROL PT
 D-52 *6 RBWC
 EL 485.59
 N 1091827.68
 E 469617.84
 STA 460+99.40
 14.37' LT

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



GRESHAM SMITH AND PARTNERS

REVISION DATES	

CONSTRUCTION LAYOUT			
PROJECT: STP00-2992-00(003)			
COUNTY: WASHINGTON			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	11-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Curve* 6
PI Sta= 484+25.28
N= 1093575.9122
E= 468015.3595
DELTA= 20°05'19.4" (RT)
D= 1°16'23.66"
T= 797.06
L= 1577.76
R= 4500.00
E= 70.04
e= 3.00%

Curve* 7
PI Sta= 504+05.68
N= 1095414.5604
E= 467236.6256
DELTA= 9°28'04.9" (RT)
D= 0°57'17.75"
T= 496.88
L= 991.49
R= 6000.00
E= 20.54
e= 2.40%

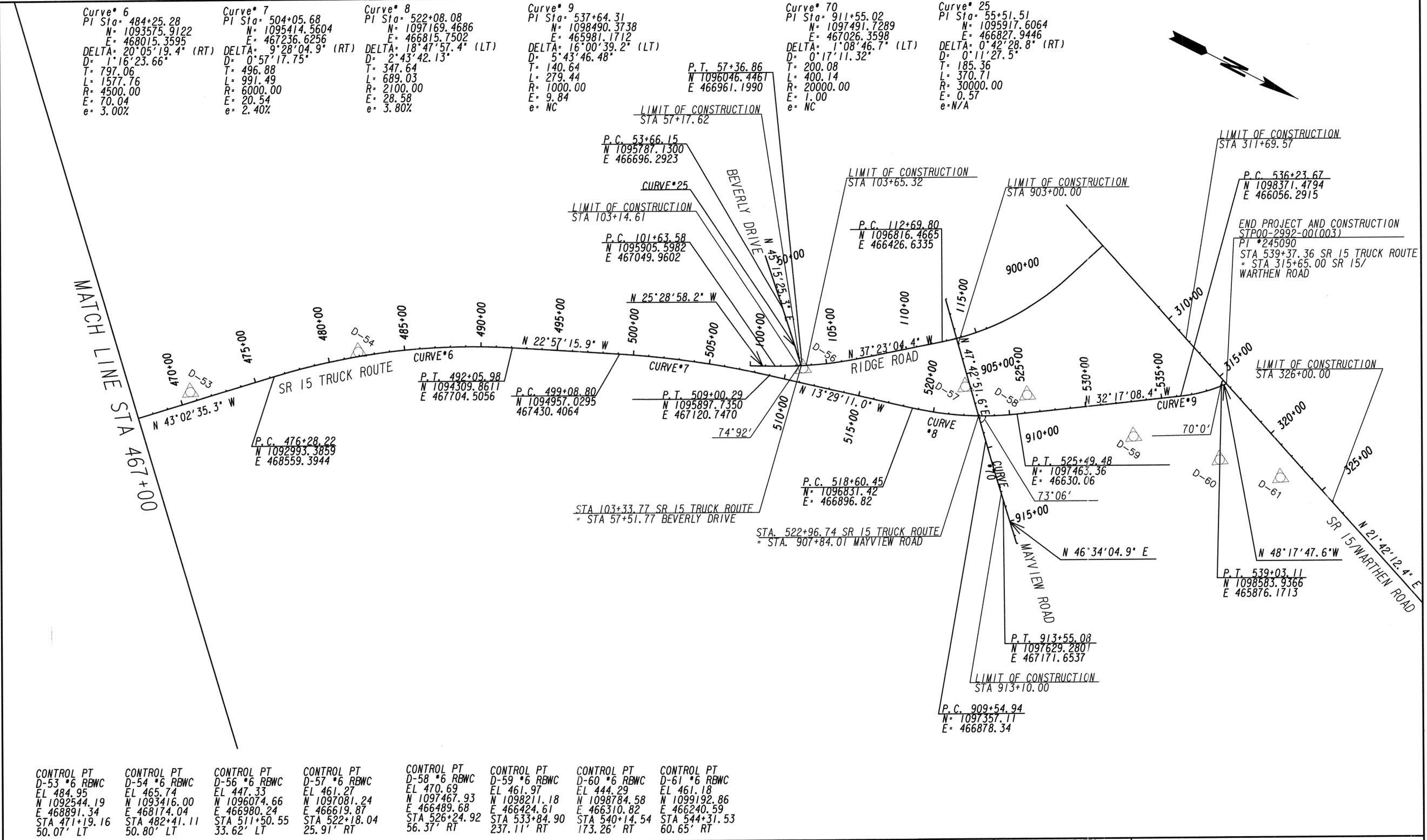
Curve* 8
PI Sta= 522+08.08
N= 1097169.4686
E= 466815.7502
DELTA= 18°47'57.4" (LT)
D= 2°43'42.13"
T= 347.64
L= 689.03
R= 2100.00
E= 28.58
e= 3.80%

Curve* 9
PI Sta= 537+64.31
N= 1098490.3738
E= 465981.1712
DELTA= 16°00'39.2" (LT)
D= 5°43'46.48"
T= 140.64
L= 279.44
R= 1000.00
E= 9.84
e= NC

Curve* 70
PI Sta= 911+55.02
N= 1097491.7289
E= 467026.3598
DELTA= 1°08'46.7" (LT)
D= 0°17'11.32"
T= 200.08
L= 400.14
R= 20000.00
E= 1.00
e= NC

Curve* 25
PI Sta= 55+51.51
N= 1095917.6064
E= 466827.9446
DELTA= 0°42'28.8" (RT)
D= 0°11'27.5"
T= 185.36
L= 370.71
R= 30000.00
E= 0.57
e= N/A

MATCH LINE STA 467+00



CONTROL PT D-53 *6 RBWC EL 484.95 N 1092544.19 E 468891.34 STA 471+19.16 50.07' LT	CONTROL PT D-54 *6 RBWC EL 465.74 N 1093416.00 E 468174.04 STA 482+41.11 50.80' LT	CONTROL PT D-56 *6 RBWC EL 447.33 N 1096074.66 E 466980.24 STA 511+50.55 33.62' LT	CONTROL PT D-57 *6 RBWC EL 461.27 N 1097081.24 E 466619.87 STA 522+18.04 25.91' RT	CONTROL PT D-58 *6 RBWC EL 470.69 N 1097467.93 E 466489.68 STA 526+24.92 56.37' RT	CONTROL PT D-59 *6 RBWC EL 461.97 N 1098211.18 E 466424.61 STA 533+84.90 237.11' RT	CONTROL PT D-60 *6 RBWC EL 444.29 N 1098784.58 E 466310.82 STA 540+14.54 173.26' RT	CONTROL PT D-61 *6 RBWC EL 461.18 N 1099192.86 E 466240.59 STA 544+31.11 60.65' RT
--	--	--	--	--	---	---	--

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



GRESHAM SMITH AND PARTNERS

SCALE IN FEET
0 300 600 1200

REVISION DATES	

CONSTRUCTION LAYOUT
PROJECT: STP00-2992-00(003)
COUNTY: WASHINGTON

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	