PIECT MANAGER	REVISED STATE ROUTE PROJECT VA. XXX XXXX-XXX-XXX, C
FIGN SUPERVISED BY GREADING DIAGRAN	AND SUMMARY VA. XXX XXXX-XXX, C
Denotes fill quantity from computer listings and/or manual (F) Denotes C.Y. fill for private entrances. Cross-sections.	
→ Denotes C.Y. unsuitable material above subc	Denotes C. Y. existing pavement to be removed as "Demolition of Pavement" from fill sections and "Demolition of Pavement" from fill sections and Necessary By The Department
Denotes cut quantity from computer listings and/or manual -130 Cut cross-sections. Quantity adjusted for demolition of pavement. Denotes C. Y. unsuitable material above subgistion is included in Regular Excavation. Denotes C. Y. of excavation under the bridge excavation of stream beyond the limits of the subgistion of the limits of the li	Denotes C.Y. existing pavement to be removed as Demolition of Pavement in cut sections within construction Limits and is not included in the Popular Executation ROADWAY DESIGN ENGINEER Demolition December of Pavement in cut sections with current VDD
included in Regular Excavation quantities. Denotes C.Y. root mat material removed from fill sections and backfilled with Regular Excavation and/or Borrow Excavation Denotes C.Y. Excavation from Relocated Stream Channel (not Reg. Ex. see Sh. 2i) Not included in CUT quantity. Denotes C.Y. Minor Structure Excavation.	Denotes C.Y. Haul.(Haul Material shown will be C.Y. of mat'l. not compacted.) Denotes C.Y. fill for S.W. M.(Stormwater Management Basin) Denotes C.Y. fill for S.W. M.(Stormwater Management Basin)
\Diamond Denotes C.Y. Regular Excavation from private entrances. $\begin{vmatrix} 1 \\ \end{vmatrix}$ Denotes C.Y. Minor Structure Excavation.	Denotes C.Y. cut from S.W. M.(Stormwater Management Basin) Denotes Borrow Material (Min. CBR, 3.6) Denotes Borrow Material (Min. CBR, 3.6)
[681] [154] < [146] < [220] [1356] [200] < [034) < 25	Denotes Surplus Material. 3 Included in Total Regular Ex
681 [154] (1146) (220) [1356] [200] (1034) (25	Denotes C.Y. fill for drainage ditches. 4 Included in Roadway Cut qua
CUT 869 1279	(5) Quantities for Temporary Sec Basins and Temporary Sed Traps are included with the Stormwater Management Basi quantities.
1067 770 2344 1/38	6 Denotes pay item.
	7 Included in total fill quantity
FILL 1007	8 This quantity comes from the computer listings and/or material consections and may be adjusted for other quantities.
	9 Volumes obtained for Cut Dit and Fill Ditches not included computer listings.
	Includes settlement of in-place
	Location Roadway Cut Roadway Cut Roadway Cut Sections Sections Cut Cut Cut Cut Cut Cut Cut Cu
	Sections Subgrade
	BEFORE BRIDGE 869 681 408 1146 1211 79 2423 1698 358
	AFTER BRIDGE 1279 1356 546 220 1034 2514 25 2070 3060 365 220
<u>FORMULAS</u> Roadway Cut(C) = Unadjusted Cutfrom Computer Listings or ManualCross-Sections minus(-)Demolition of Paveme	TOTALS 2148 2037 954 1366 1034 1 J K L M N 0 P Q 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Roadway Fill(J) = Fill Required plus (+) Material for Backfill of Demolition of Pavement Areas in Fill(for heights of fill< 3 feet below subgrade)	The borrow quantity shown was computed on the basis of the average — The embankment quantity shown has not been adjusted for shrinkag
Total Reg. Excav. (M) = C + E + F + H +K	shrinkage or swell factor for the general vicinity of the project. The swell factors. The contractor will be responsible for determining the contractor will be responsible for determining the contractor will be responsible for determining the contractor for the of the shrinkage or swell factor of the embankment material, and no site(s) from which he proposes to secure borrow material needed will be made in pay quantities for this factor. The contractor shall contractor shall contract or shall
Total Fill (N) = J + E + H + L + R	to complete this project. the actual quantity of embankment material needed to complete this p
Borrow (S)= [N-([C + F + G + K + P + Q - D - I]x Compaction Factor)] $\frac{1}{2}$ Compaction Factor for Borrow Site	
(Embankment)(S) = N -(C + F +K + P +Q - D - I) (Embankment = Total Fill - Usable Cut) Estimated Material to be obtained off-site.	$\begin{array}{ c c c c c }\hline & & & & \\ & & & & \\ & & & & \\ & & & & $